

MUN. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19-0070	19-0070-00-BR	COOK	59	1
ILLINOIS CONTRACT NO. 61K21				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

WELLINGTON AVENUE AND LEICESTER ROAD
OVER LAKE COSMAN
CULVERT REPLACEMENT
SECTION: 19-0070-00-BR
PROJECT: EDIJ(468)
ELK GROVE VILLAGE
COOK COUNTY

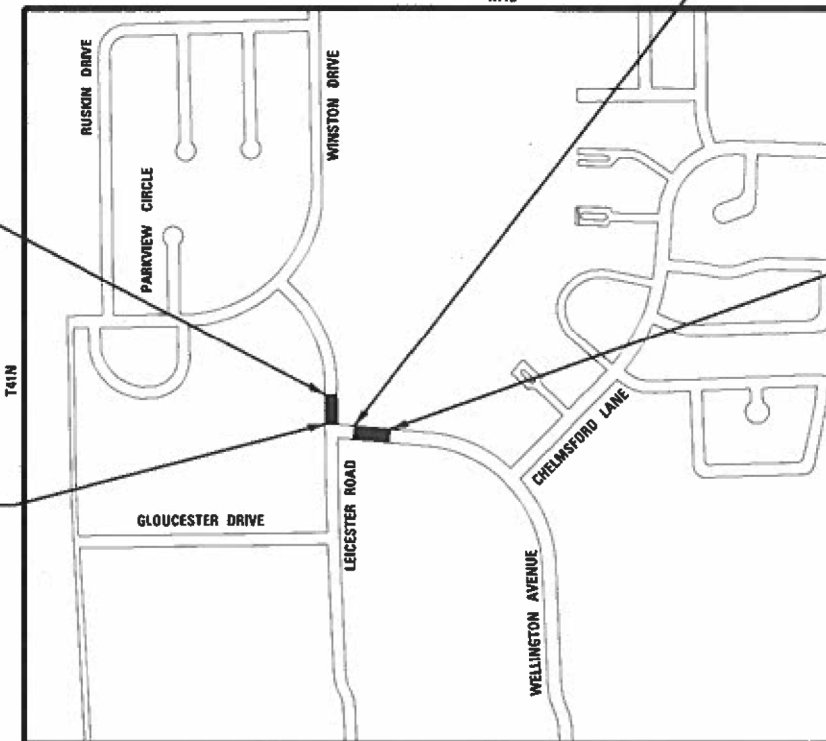
C-91-311-19
LOCATION MAP
R11E

BEGIN IMPROVEMENTS
WELLINGTON AVENUE
STA 501+00

END IMPROVEMENTS
WELLINGTON AVENUE
STA 502+60

END RECONSTRUCTION
LEICESTER ROAD
STA 115+50

BEGIN IMPROVEMENTS
LEICESTER ROAD
STA 112+30

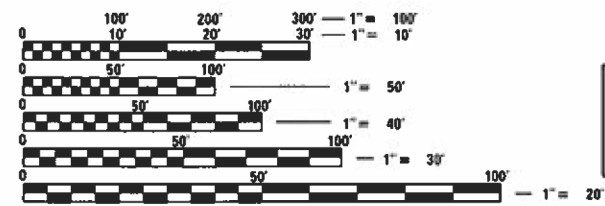


R11E
LOCATION MAP
NOT TO SCALE
GROSS LENGTH = 480 FT. = 0.091 MILE
NET LENGTH = 480 FT. = 0.091 MILE

TRAFFIC DATA

WELLINGTON AVENUE
POSTED SPEED LIMIT = 25 MPH
DESIGN SPEED LIMIT = 30 MPH
ADT = 1,200 (2022)
LOCAL ROAD

LEICESTER ROAD
POSTED SPEED LIMIT = 25 MPH
DESIGN SPEED LIMIT = 30 MPH
ADT = 575 (2022)
LOCAL ROAD



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

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

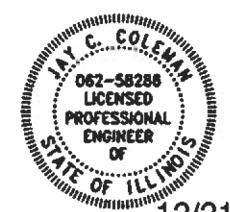


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: 11/21/2023
Ken Gay
ELK GROVE VILLAGE, DEPUTY DIRECTOR OF PUBLIC WORKS

PASSED: 1-2-2024
CT Roale
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW: January 3, 2024
Jan R...
REGIONAL ENGINEER



12/21/2023
Jay Coleman
PROJECT MANAGER
"LICENSE EXPIRES 11-30-2025"

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2024", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST AVAILABLE INFORMATION AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER AND THE ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS.
- ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED. THIS WORK SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, RESIDENTS AND THE VILLAGE WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURE. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.
- A 1/2-INCH THICK EXPANSION JOINT SHALL BE PROVIDED AT THE JUNCTION OF THE DRIVEWAY APRON AND CURB, AND AT THE JUNCTION OF THE DRIVEWAY APRON AND THE SIDEWALK.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONCRETE OR HOT-MIX ASPHALT MATERIAL DELIVERIES.
- ALL FRAME AND LID CASTINGS LOCATED WITHIN THE PAVEMENT WHICH REQUIRE RESETTING TO FINISH GRADE SHALL BE BACKFILLED WITH CLASS SI CONCRETE AND ALLOWED TO CURE FOR 72 HOURS PRIOR TO PLACEMENT OF SURFACE COURSE. CLASS PP CONCRETE SHALL BE USED IF PLACEMENT OF SURFACE COURSE IS PLANNED IN LESS THAN 72 HOURS. HMA MATERIALS WILL NOT BE ALLOWED AS BACKFILL AROUND AN ADJUSTED CASTING. THIS WORK SHALL APPLY TO ALL CASTINGS ADJUSTED OR RECONSTRUCTED AS PART OF THIS CONTRACT, WHETHER PAID FOR SEPARATELY OR INCLUDED IN OTHER CONTRACT WORK.
- THE DAYS PAVING OPERATION SHOULD RESULT IN A SINGLE TRANSVERSE JOINT. ANY COLD LONGITUDINAL JOINTS WILL NOT BE ACCEPTED. PROVIDING A SINGLE TRANSVERSE JOINT SHALL BE ACCOMPLISHED BY PAVING ONE LANE OF SUFFICIENT LENGTH THAT WILL ALLOW FOR THE PAVING OF THE ADJACENT LANE IN THE SAME DAY.
- PRIOR TO CONSTRUCTION OF ANY PROPOSED UTILITIES, THE CONTRACTOR SHALL EXCAVATE AND LOCATE THE EXISTING UTILITIES TO VERIFY THEIR LOCATION, SIZE, AND DEPTH TO ENSURE THAT GRADE CONFLICTS WILL NOT OCCUR. THIS WORK SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION EXPLORATION TRENCH (SPECIAL).
- DURING CONSTRUCTION OPERATIONS ALL LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES AND TEMPORARY DITCHES THAT OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE CLEANED AS NECESSARY TO ENSURE THAT THEY ARE FREE FROM ALL DIRT AND DEBRIS PRIOR TO THE FINAL INSPECTION OF THE PROJECT.
- THE CONTRACTOR WILL NOT BE ALLOWED TO STOCK PILE MATERIAL(S) BEYOND THE PROJECT LIMITS. THE CONTRACTOR WILL NOT PLACE STOCK PILES IN LOCATIONS WHERE THEY WILL BLOCK DRAINAGE WAYS, IN WETLANDS OR ON PAVEMENTS THAT ARE NOT SPECIFIED FOR REMOVAL. ANY DAMAGE REQUIRING REPAIR CAUSED BY THE CONTRACTORS STOCK PILING OR CONSTRUCTION OPERATIONS WILL BE DONE BY THE CONTRACTOR. STOCK PILE AREAS SHALL BE COORDINATED WITH THE ENGINEER.
- SAWING FULL DEPTH JOINTS SHALL BE REQUIRED IN THE EXISTING ROADWAY, BITUMINOUS SURFACE, CURB AND GUTTER, DRIVEWAY, AND SIDEWALK IN ORDER TO SEPARATE THOSE PORTIONS TO BE REMOVED FROM THOSE WHICH WILL REMAIN IN PLACE PERMANENTLY OR UNTIL A LATER STAGE OF CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO SAW VERTICAL CUTS SO AS TO FORM CLEAN VERTICAL JOINTS. SHOULD THE CONTRACTOR DEFACE ANY EDGE, A NEW SAWED JOINT SHALL BE PROVIDED. ALL SAW CUTS SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION SAW CUTTING.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE TO ELK GROVE VILLAGE.
- THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" AND AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED, OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE" AND "WETLAND PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE 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 ABOVE ITEM 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 OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR EXPENSE.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
- PHOSPHORUS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT DUE TO THE PROXIMITY TO THE EXISTING WETLANDS/BODIES OF WATER. A PHOSPHORUS-FREE FERTILIZER SHALL BE USED

STANDARD NO.

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
515001-04	NAME PLATE FOR BRIDGES
602001-02	CATCH BASIN TYPE A
602006-04	CATCH BASIN TYPE B
602301-04	INLET - TYPE A
604001-05	FRAME AND LIDS TYPE 1
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
635001-02	DELINEATORS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
780001-05	TYPICAL PAVEMENT MARKINGS

HIGHWAY STANDARDS

INDEX OF SHEETS

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2	GENERAL NOTES, HIGHWAY STANDARDS AND INDEX OF SHEETS
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11	SCHEDULE OF QUANTITIES
12 - 13	ALIGNMENT, TIES AND BENCHMARKS
14	EXISTING CONDITIONS AND REMOVAL PLANS
15 - 16	PLAN AND PROFILE
17	MAINTENANCE OF TRAFFIC AND CONSTRUCTION STAGING NOTES
18 - 19	DETOUR PLAN
20	EROSION CONTROL PLAN
21	EROSION CONTROL & SEEDING NOTES
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24	MWRD GENERAL NOTES
25	LANDSCAPING PLAN
26	LANDSCAPING DETAILS
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48 - 59	CROSS SECTIONS

COMMITMENTS

- TREES REMOVED FROM THE PROJECT AREA FOR CONSTRUCTION WILL BE REPLACED ACCORDING TO THE IDOT DEPARTMENTAL POLICY D&E-18.
- TREES THREE (3) INCHES OR GREATER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY GIVEN YEAR.

IDOT DISTRICT 1 DETAILS

STANDARD NO.	LIST OF DESCRIPTION
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, HIGHWAY STANDARDS AND INDEX OF SHEETS		MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		21002000	19-00070-00-BR	COOK	59	2
						CONTRACT NO. 61K21
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS / FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% VILL	0% FED 100% VILL	80% FED 20% VILL
				BRIDGE 0010	BRIDGE 0010	TRAINEES 0042
				URBAN	URBAN	URBAN
20101000	TEMPORARY FENCE	FOOT	200	200		
20101100	TREE TRUNK PROTECTION	EACH	23	23		
* 20101200	TREE ROOT PRUNING	EACH	3	3		
* 20101400	NITROGEN FERTILIZER NUTRIENT	POUND	5	5		
* 20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	5	5		
* 20101700	SUPPLEMENTAL WATERING	UNIT	10	10		
20200100	EARTH EXCAVATION	CU YD	10	10		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	36	36		
20400800	FURNISHED EXCAVATION	CU YD	270	270		
20800150	TRENCH BACKFILL	CU YD	25	25		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1,853	1,853		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	922	922		
* 25000110	SEEDING, CLASS 1A	ACRE	0.25	0.25		
* 25100630	EROSION CONTROL BLANKET	SQ YD	782	782		
* 25200100	SODDING	SQ YD	107	107		

* INDICATES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	NONE	SHEET	1	OF	6	SHEETS	STA.	TO	STA.
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	3
CONTRACT NO. 61K21			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% VILL	0% FED 100% VILL	80% FED 20% VILL
				BRIDGE 0010	BRIDGE 0010	TRAINEES 0042
				URBAN	URBAN	URBAN
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	17	17		
28000400	PERIMETER EROSION BARRIER	FOOT	150	150		
28000510	INLET FILTERS	EACH	1	1		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	782	782		
28100105	STONE RIPRAP, CLASS A3	SQ YD	79	79		
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	831	831		
28200200	FILTER FABRIC	SQ YD	79	79		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CJ YD	174	174		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2,082	2,082		
31101500	SUBBASE GRANULAR MATERIAL, TYPE B 7"	SQ YD	317	317		
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	520	520		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,224	1,224		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	960	960		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	508	508		
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	204	204		

* INDICATES SPECIALTY ITEM

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:	NONE	SHEET	2	OF	6	SHEETS	STA.	TO	STA.
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	4
CONTRACT NO. 61K21			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% VILL	0% FED 100% VILL	80% FED 20% VILL
				BRIDGE 0010 URBAN	BRIDGE 0010 URBAN	TRAINEES 0042 URBAN
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4,692	4,692		
44000100	PAVEMENT REMOVAL	SQ YD	1,672	1,672		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	960	960		
44000600	SIDEWALK REMOVAL	SQ FT	1,920	1,920		
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1		
50200100	STRUCTURE EXCAVATION	CU YD	4,911	4,911		
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	250.0	250.0		
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1	1		
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1	1		
50300225	CONCRETE STRUCTURES	CU YD	126.7	126.7		
50300285	FORM LINER TEXTURED SURFACE	SQ FT	4,936	4,936		
50800105	REINFORCEMENT BARS	POUND	32,520	32,520		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	54,550	54,550		
51500100	NAME PLATES	EACH	2	2		

* INDICATES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 6 SHEETS STA. TO STA.

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	5
CONTRACT NO. 61K21			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% VILL	0% FED 100% VILL	80% FED 20% VILL
				BRIDGE 0010	BRIDGE 0010	TRAINEES 0042
				URBAN	URBAN	URBAN
52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	469.7	469.7		
* 56103200	DUCTILE IRON WATER MAIN 10"	FOOT	311	311		
56400825	FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE	EACH	2	2		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	201	201		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	689	689		
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	960	960		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	12	12		
* 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		
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5		
67100100	MOBILIZATION	L SUM	1	1		
* A2006712	TREE, QUERCUS MA-CROCARPA (BUR OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
* A2018718	TREE, ULMUS CARPINIFOLIA MORTON, (ACCOLADE ELM), 2" CALIPER, BALLED AND BURLAPPED	EACH	1	1		

* INDICATES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 4 OF 6 SHEETS	STA.	TO STA.
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SUMMARY OF QUANTITIES

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002000	19-00070-00-BR	COOK	59	6
CONTRACT NO. 61K21			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% VILL	0% FED 100% VILL	80% FED 20% VILL
				BRIDGE 0010	BRIDGE 0010	TRAINEES 0042
				URBAN	URBAN	URBAN
* C20058G3	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), CONTAINER GROWN, 3-GALLON	EACH	32	32		
* K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	2	2		
* X2080252	TRENCH BACKFILL, WATERMAIN	CUYD	200	200		
X0322916	PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER	EACH	2	2		
* X0322463	CONNECTION TO EXISTING SEWER	EACH	4	4		
X0327999	ANTI-GRAFFITI COATING	SQ FT	5,144		5,144	
* X1200274	TEMPORARY BYPASS PUMPING SYSTEM	L SUM	1	1		
* X1200309	WATER MAIN QUALITY CASING PIPE, 18"	FOOT	96	96		
* X1200312	SANITARY SEWER CASING PIPE, 18"	FOOT	140	140		
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	200	200		
* X2600012	REMOVE AND RELOCATE SIGN PANEL AND POLE ASSEMBLY	EACH	5	5		
X4023000	TEMPORARY ACCESS (ROAD)	EACH	4	4		
X5030290	STAINING CONCRETE STRUCTURES	SQ FT	4,936	4,936		
* X5091755	PARAPET RAILING (SPECIAL)	FOOT	400	400		
* X5610752	WATER MAIN LINE STOP 12"	EACH	2	2		

* INDICATES SPECIALTY ITEM

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
 MODEL DESIGNER
 jcoleman 9/7/2024 7:23:15 AM
 FILE NAME: P:\ELKGR\181136-Lake Cosman Bridges\CAD\Sheets\Phase II\181136-SHT-SOQ.dgn



USER NAME	DESIGNED	REVISOR
jcoleman	MLH	
PLOT SCALE	CHECKED	REVISOR
20.0000 * / in.	JCC	
PLOT DATE	DATE	FILE
9/7/2024	9/7/2024	181136-SHT-SOQ.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 5 OF 6 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	7
CONTRACT NO. 61K21			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% VILL	0% FED 100% VILL	80% FED 20% VILL
				BRIDGE 0010	BRIDGE 0010	TRAINEES 0042
				URBAN	URBAN	URBAN
* X5630712	CONNECTION TO EXISTING WATER MAIN 12"	EACH	4	4		
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	721	721		
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
* XX001465	SANITARY SEWER, PVC, 10"	FOOT	170	170		
* XX007278	PARKWAY RESTORATION	SQ YD	855	855		
* XX008436	VALVE VAULTS, 5' DIAMETER	EACH	2	2		
* XX009656	GATE VALVE 10"	EACH	2	2		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0019600	DUST CONTROL WATERING	UNIT	1	1		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103		
Z0038287	THREE-SIDED PRECAST CONCRETE STRUCTURES 32'X 12'	FOOT	176	176		
Z0054400	ROCK FILL	CJ YD	250	250		
Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	62	62		
Z0076600	TRAINEES	HOUR	500			500
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500

* INDICATES SPECIALTY ITEM

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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PLOT DATE = 9/11/2024	CHECKED - JCC	REVISED -
	DATE - 9/11/2024	FILE - 181136-SHT-SOQ.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: NONE			SHEET 6 OF 6 SHEETS			STA. TO STA.		
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SUMMARY OF QUANTITIES

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	8
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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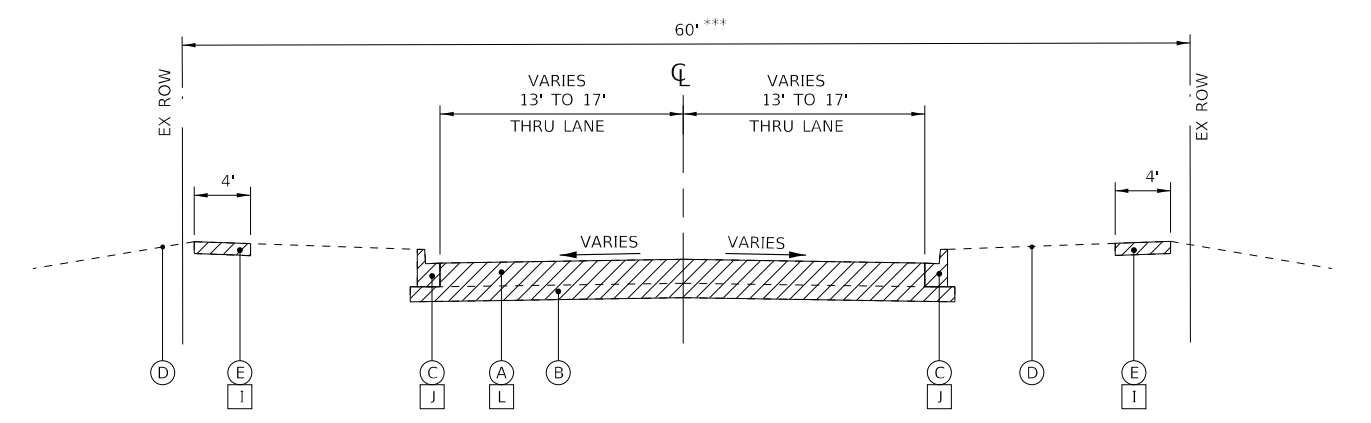


EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE
- (B) AGGREGATE BASE
- (C) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
- (D) GROUND SURFACE
- (E) PCC SIDEWALK
- (F) CULVERT WALL
- (G) CURB AND GUTTER AND/OR CONCRETE CURB
- (H) EARTH EXCAVATION
- (I) SIDEWALK REMOVAL
- (J) COMBINATION CONCRETE CURB AND GUTTER REMOVAL
- (K) NOT USED
- (L) PAVEMENT REMOVAL, 7.5-11"
- [Hatched Box] ITEM TO BE REMOVED

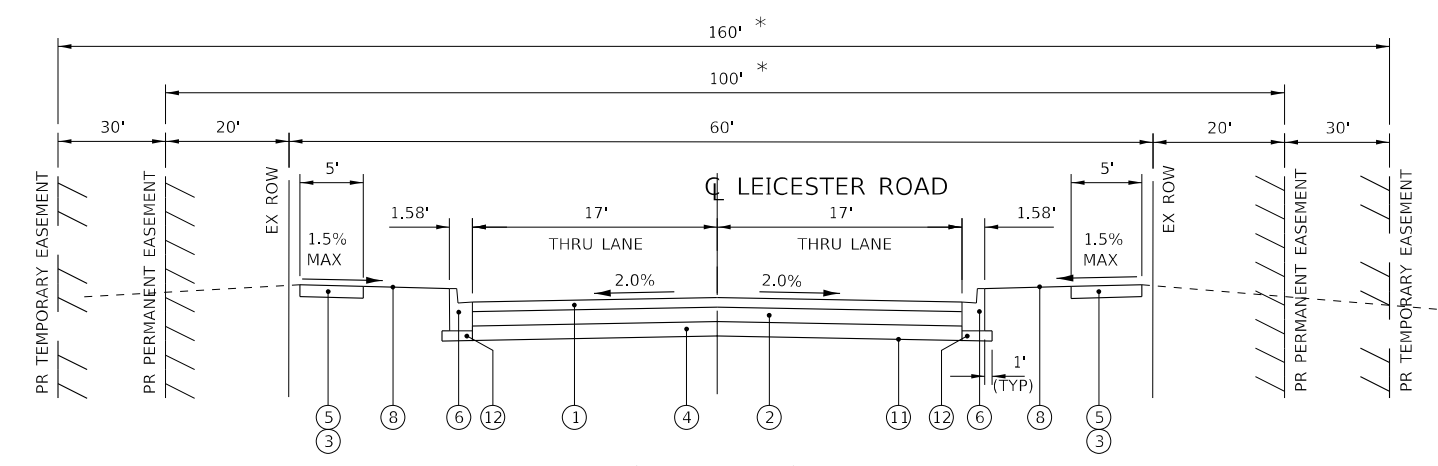
PROPOSED LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- ② HOT-MIX ASPHALT BINDER COURSE, IL*19.0, N50, 5"
- ③ AGGREGATE BASE COURSE, TYPE B 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑤ PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- ⑥ COMBINATION CONCRETE CURB AND GUTTER, TYPE B.6-12
- ⑦ NOT USED
- ⑧ PARKWAY RESTORATION
- ⑨ STRUCTURE BACKFILL (SEE STRUCTURAL PLANS)
- ⑩ CULVERT HEADWALL (SEE STRUCTURAL PLANS)
- ⑪ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑫ SUBBASE GRANULAR MATERIAL, TYPE B 7"



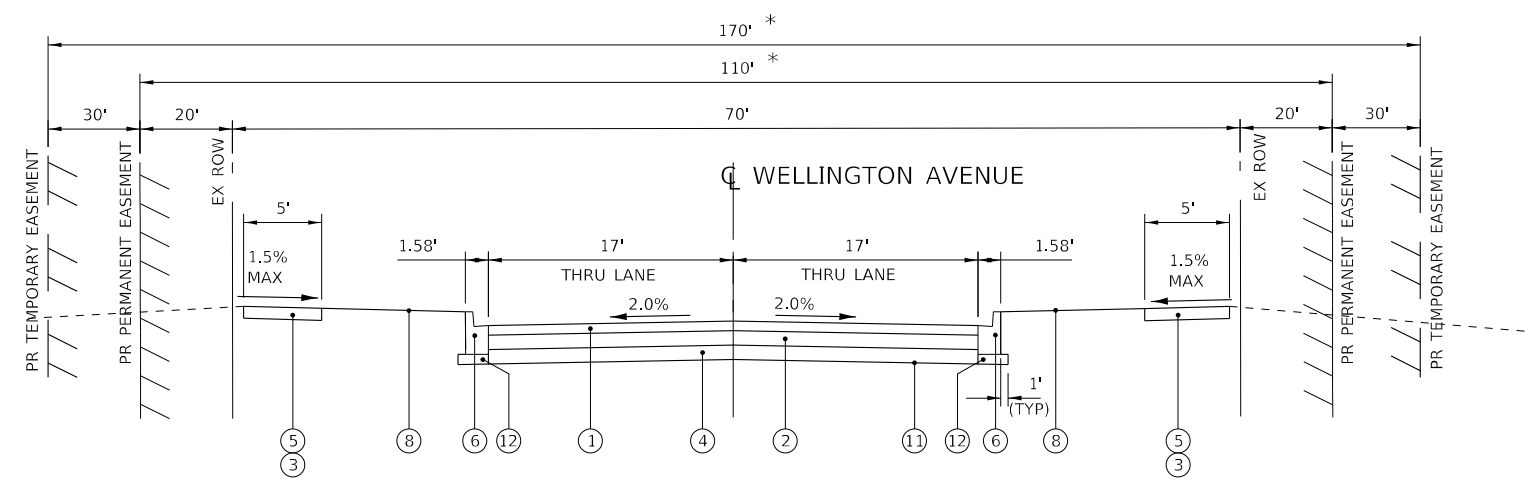
EXISTING TYPICAL SECTION

LEICESTER ROAD STA 112+30 TO STA 115+50
 WELLINGTON AVENUE STA 501+00 TO STA 502+60
 *** 60' AT LEISCASTER RD, 70' AT WELLINGTON AVE



PROPOSED TYPICAL SECTION

LEICESTER ROAD
 STA 112+30 TO STA 115+50
 CULVERT OMISSION STA 113+44 TO STA 14+44
 * AT LOCATIONS SHOWN ON PLANS



PROPOSED TYPICAL SECTION

WELLINGTON AVENUE
 STA 501+00 TO STA 502+60
 CULVERT OMISSION STA 501+26 TO STA 502+26
 * AT LOCATIONS SHOWN ON PLANS

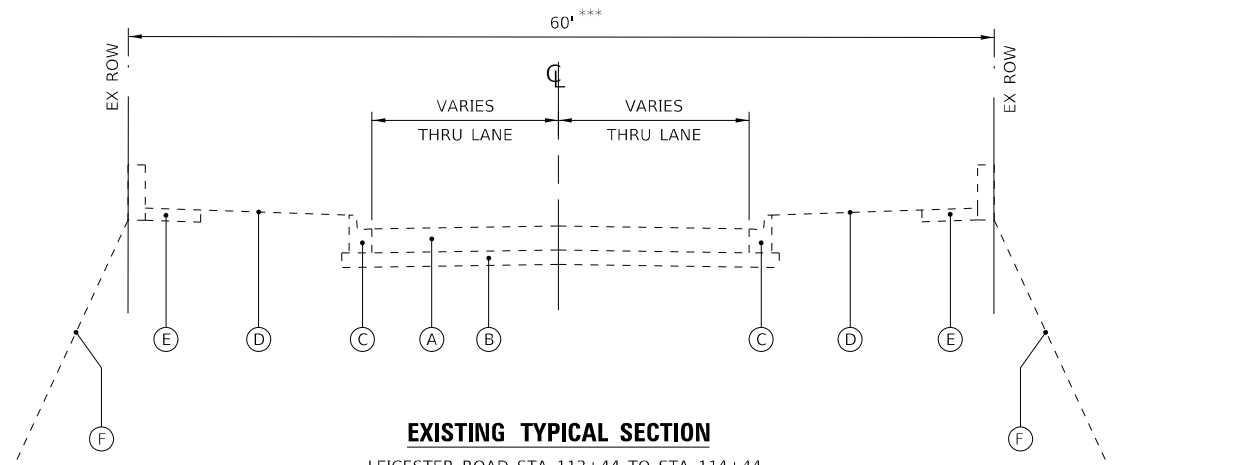
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS AND
 HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

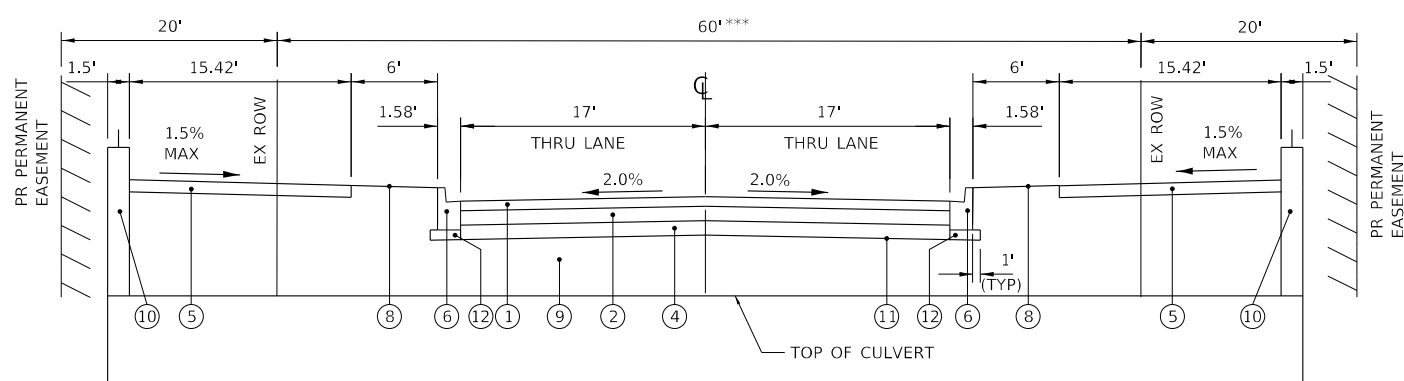
MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	9
CONTRACT NO. 61K21				

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

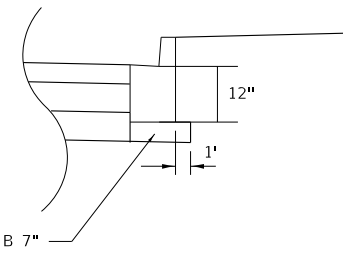
ILLINOIS FED. AID PROJECT



EXISTING TYPICAL SECTION
 LEICESTER ROAD STA 113+44 TO STA 114+44
 WELLINGTON AVENUE STA 501+26 TO 502+26
 *** 60' AT LEICESTER RD, 70' AT WELLINGTON AVE



PROPOSED TYPICAL SECTION
 LEICESTER ROAD STA 113+44 TO STA 114+44
 WELLINGTON AVENUE STA 501+26 TO 502+26
 *** 60' AT LEICESTER RD, 70' AT WELLINGTON AVE



COMBINATION CONCRETE CURB AND GUTTER DETAIL

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE
- (B) AGGREGATE BASE
- (C) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
- (D) GROUND SURFACE
- (E) PCC SIDEWALK
- (F) CULVERT WALL
- (G) CURB AND GUTTER AND/OR CONCRETE CURB
- (H) EARTH EXCAVATION
- (I) SIDEWALK REMOVAL
- (J) COMBINATION CONCRETE CURB AND GUTTER REMOVAL
- (K) HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"
- (L) PAVEMENT REMOVAL, 7.5-11"
- (M) ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL*19.0, N50, 5"
- (3) AGGREGATE BASE COURSE, TYPE B 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (5) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B.6-12
- (7) NOT USED
- (8) PARKWAY RESTORATION
- (9) STRUCTURE BACKFILL (SEE STRUCTURAL PLANS)
- (10) CULVERT HEADWALL (SEE STRUCTURAL PLANS)
- (11) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (12) SUBBASE GRANULAR MATERIAL, TYPE B 7"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
PAVEMENT RECONSTRUCTION		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50; 2"	4% @ 50 Gyr.	LR - 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL*19.0, N50; 5"	4% @50 Gyr.	LR - 1030-2
QMP designation: Quality Control/Quality Assurance (QC/QA) PER LR-1030-2		

- NOTES:
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA 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.
 - LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER HMA BINDER COURSE.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
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USER NAME - mvandervelden	DESIGNED - MLH	REVISED -
PLOT SCALE - 20.0000 * / in.	CHECKED - JCC	REVISED -
PLOT DATE - 7/29/2024	DATE - 7/29/2024	FILE - 181136-SHT-TypSec.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
SCALE: NONE	SHEET 2 OF 2 SHEETS

MUN. RTE. 21002080	SECTION 19-00070-00-BR	COUNTY COOK	TOTAL SHEETS 59	SHEET NO. 10
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

EARTHWORK – LEICESTER ROAD

	STATION	LENGTH	EARTH EXCAVATION	EARTH EXCAVATION FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	TOPSOIL REMOVAL (UNSUITABLE)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		(FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
AHEAD	113+00						
	113+35	35.00	0.20	0.17	0.00	1.91	-1.73
	113+44	9.00	0.09	0.08	1.93	0.92	-2.78
	113+50	6.00	0.03	0.02	4.39	0.39	-4.75
	113+76	26.00	0.00	0.00	89.00	0.81	-89.82
Culvert							
	114+12		0.00	0.00	0.00	0.00	0.00
	114+43	31.00	0.20	0.17	94.05	2.23	-96.12
	114+45	2.00	0.00	0.00	0.85	0.07	-0.92
	114+50	5.00	0.02	0.02	0.08	0.26	-0.32
	114+56	6.00	0.04	0.04	0.00	0.49	-0.46
	115+00	44.00	0.16	0.14	0.00	4.39	-4.25
	115+50	50.00	0.00	0.00	0.00	6.28	-6.28
		TOTAL	0.5	0.5	190.3	6.6	-196.4
		ROUNDUP	5	5	195	10	-200

EARTHWORK – WELLINGTON AVENUE

	STATION	LENGTH	EARTH EXCAVATION	EARTH EXCAVATION FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	TOPSOIL REMOVAL (UNSUITABLE)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		(FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
AHEAD	501+00						
	501+16	16.00	0.00	0.00	0.00	0.00	0.00
	501+25	9.00	0.00	0.00	0.00	0.65	-0.65
	501+50	25.00	0.00	0.00	18.72	3.08	-21.80
CULVERT	501+58	8.00	0.00	0.00	12.86	0.77	-13.63
	501+94	0.00	0.00	0.00	0.00	0.00	0.00
	502+00	6.00	0.00	0.00	6.57	0.79	-7.35
	502+25	25.00	0.23	0.20	15.81	2.81	-18.42
	502+36	11.00	1.43	0.00	2.07	1.68	-3.75
		TOTAL	1.7	0.2	56.0	9.8	-65.6
		ROUNDUP	5	5	60	10	-70

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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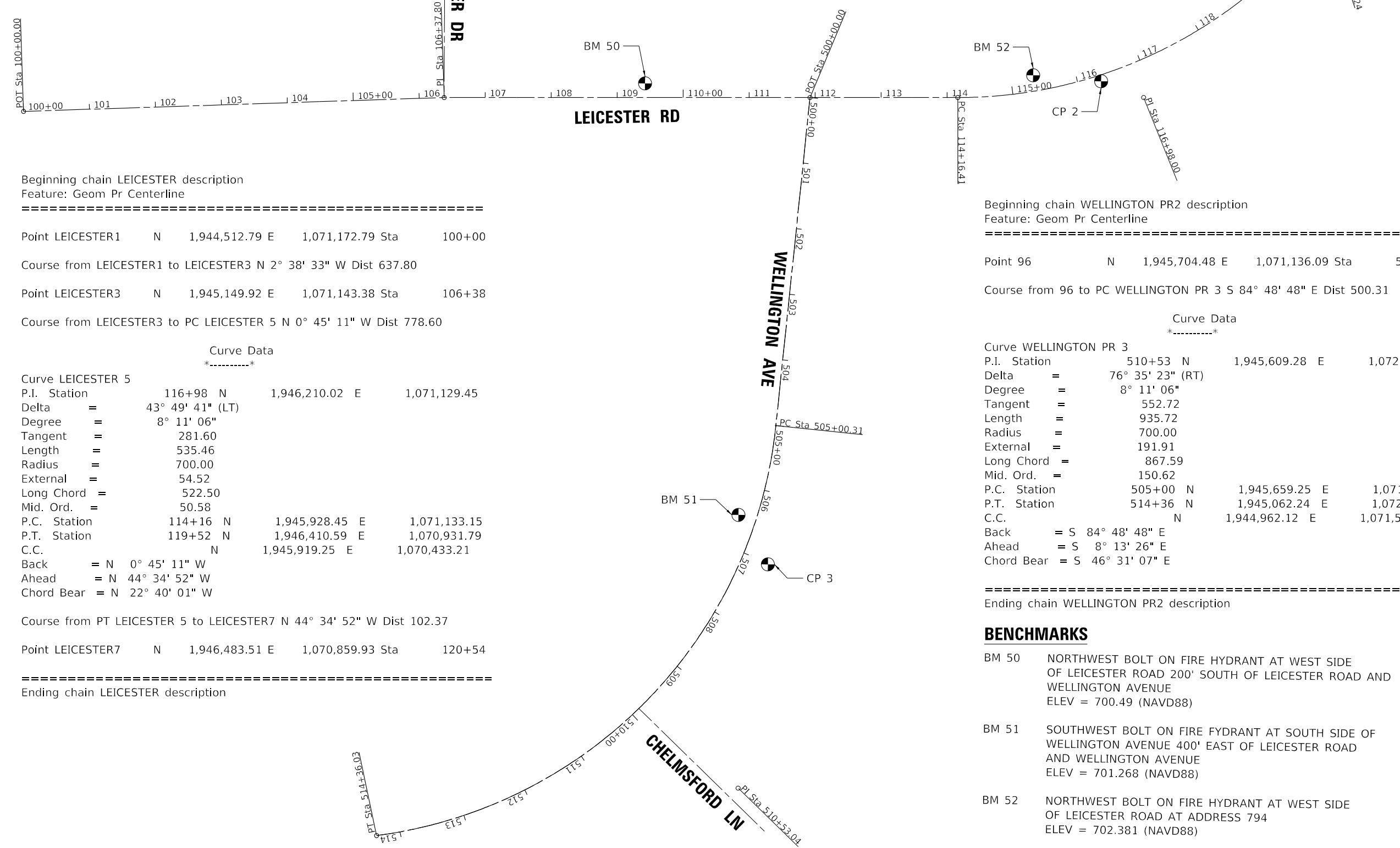
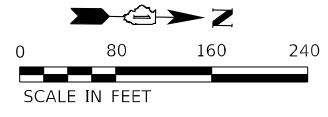
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002000	19-00070-00-BR	COOK	59	11
CONTRACT NO. 61K21			ILLINOIS FED. AID PROJECT	



Beginning chain LEICESTER description
Feature: Geom Pr Centerline

Point LEICESTER1 N 1,944,512.79 E 1,071,172.79 Sta 100+00
 Course from LEICESTER1 to LEICESTER3 N 2° 38' 33" W Dist 637.80
 Point LEICESTER3 N 1,945,149.92 E 1,071,143.38 Sta 106+38
 Course from LEICESTER3 to PC LEICESTER 5 N 0° 45' 11" W Dist 778.60

Curve Data

Curve LEICESTER 5
 P.I. Station 116+98 N 1,946,210.02 E 1,071,129.45
 Delta = 43° 49' 41" (LT)
 Degree = 8° 11' 06"
 Tangent = 281.60
 Length = 535.46
 Radius = 700.00
 External = 54.52
 Long Chord = 522.50
 Mid. Ord. = 50.58
 P.C. Station 114+16 N 1,945,928.45 E 1,071,133.15
 P.T. Station 119+52 N 1,946,410.59 E 1,070,931.79
 C.C. N 1,945,919.25 E 1,070,433.21
 Back = N 0° 45' 11" W
 Ahead = N 44° 34' 52" W
 Chord Bear = N 22° 40' 01" W

Course from PT LEICESTER 5 to LEICESTER7 N 44° 34' 52" W Dist 102.37
 Point LEICESTER7 N 1,946,483.51 E 1,070,859.93 Sta 120+54

Ending chain LEICESTER description

Beginning chain WELLINGTON PR2 description
Feature: Geom Pr Centerline

Point 96 N 1,945,704.48 E 1,071,136.09 Sta 500+00
 Course from 96 to PC WELLINGTON PR 3 S 84° 48' 48" E Dist 500.31

Curve Data

Curve WELLINGTON PR 3
 P.I. Station 510+53 N 1,945,609.28 E 1,072,184.82
 Delta = 76° 35' 23" (RT)
 Degree = 8° 11' 06"
 Tangent = 552.72
 Length = 935.72
 Radius = 700.00
 External = 191.91
 Long Chord = 867.59
 Mid. Ord. = 150.62
 P.C. Station 505+00 N 1,945,659.25 E 1,071,634.36
 P.T. Station 514+36 N 1,945,062.24 E 1,072,263.88
 C.C. N 1,944,962.12 E 1,071,571.08
 Back = S 84° 48' 48" E
 Ahead = S 8° 13' 26" E
 Chord Bear = S 46° 31' 07" E

Ending chain WELLINGTON PR2 description

BENCHMARKS

- BM 50 NORTHWEST BOLT ON FIRE HYDRANT AT WEST SIDE OF LEICESTER ROAD 200' SOUTH OF LEICESTER ROAD AND WELLINGTON AVENUE
ELEV = 700.49 (NAVD88)
- BM 51 SOUTHWEST BOLT ON FIRE FYDRANT AT SOUTH SIDE OF WELLINGTON AVENUE 400' EAST OF LEICESTER ROAD AND WELLINGTON AVENUE
ELEV = 701.268 (NAVD88)
- BM 52 NORTHWEST BOLT ON FIRE HYDRANT AT WEST SIDE OF LEICESTER ROAD AT ADDRESS 794
ELEV = 702.381 (NAVD88)

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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DRAWN - KAR	REVISOR -	
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PLOT DATE = 7/29/2024	DATE - 7/29/2024	FILE - 181136-SHT-Align1.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES AND BENCHMARKS

SCALE: 1" = 80' SHEET 1 OF 1 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	12
CONTRACT NO. 61K21			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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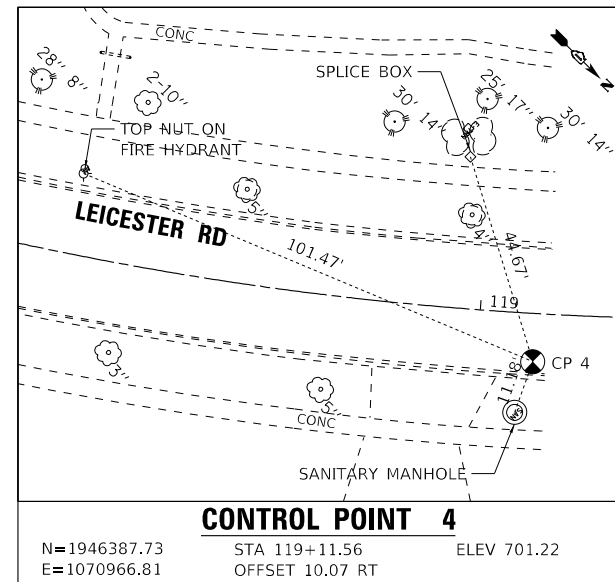
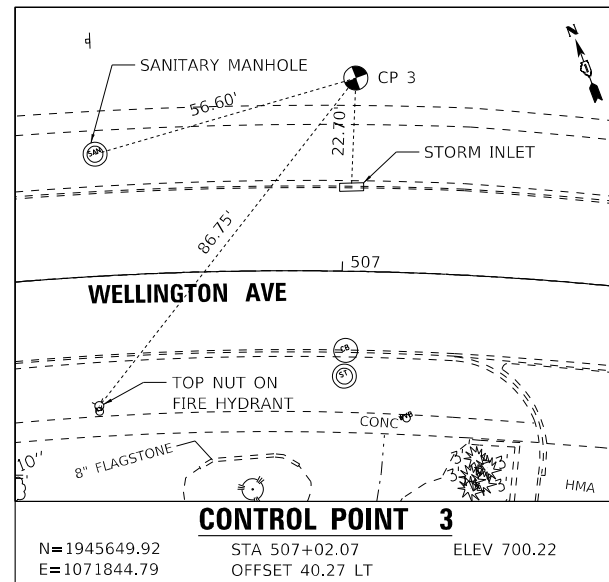
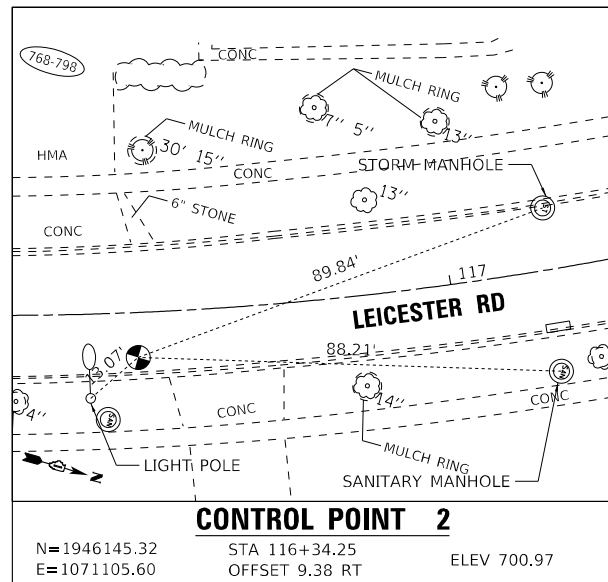
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TIES

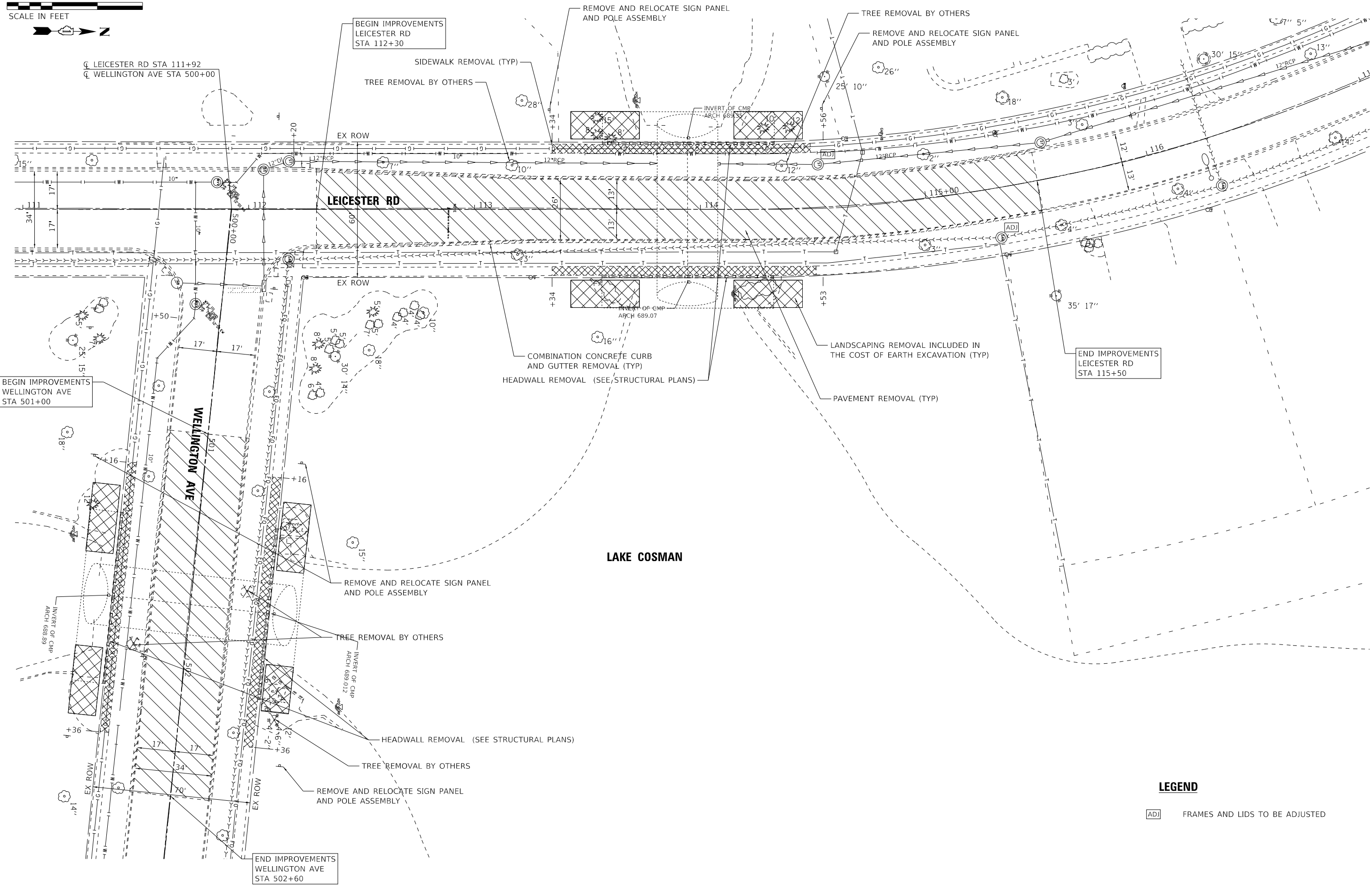
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	13
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				





SCALE IN FEET



LEGEND

[ADJ] FRAMES AND LIDS TO BE ADJUSTED

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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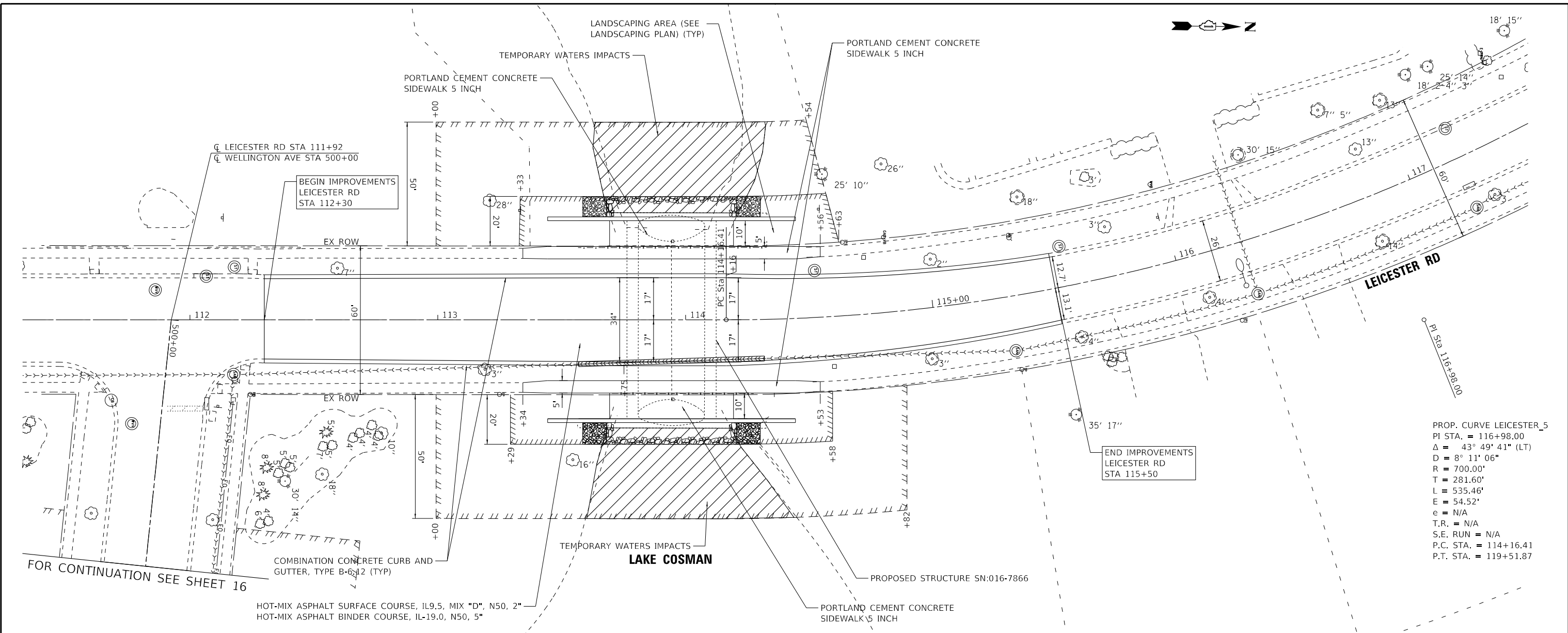
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

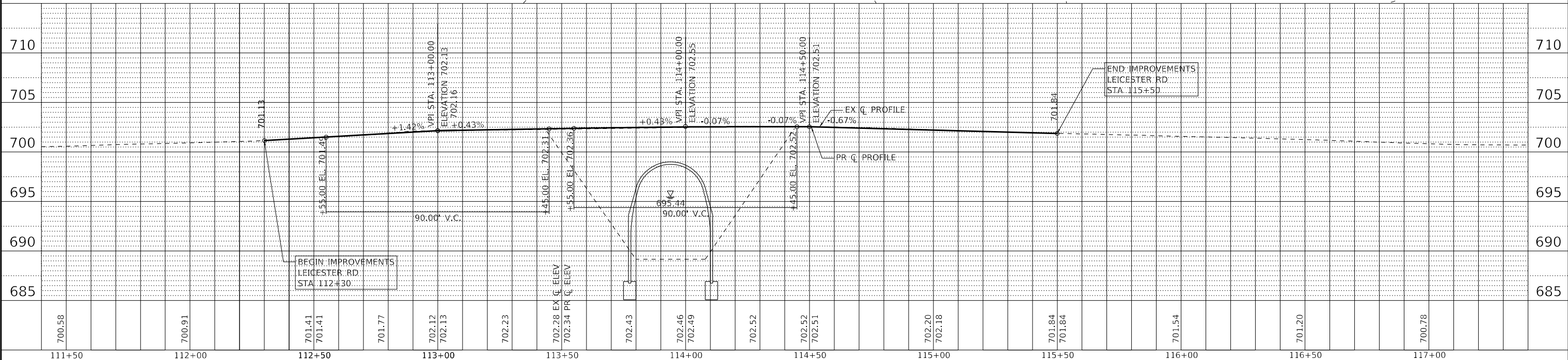
EXISTING CONDITIONS AND REMOVAL PLAN	
LEICESTER RD AND WELLINGTON AVE	
SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002000	19-00070-00-BR	COOK	59	14
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

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PROP. CURVE LEICESTER_5
 PI STA. = 116+98.00
 $\Delta = 43^\circ 49' 41''$ (LT)
 $D = 8^\circ 11' 06''$
 $R = 700.00'$
 $T = 281.60'$
 $L = 535.46'$
 $E = 54.52'$
 $e = N/A$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 $P.C. STA. = 114+16.41$
 $P.T. STA. = 119+51.87$



USER NAME	- mwandervelden	DESIGNED	- CPM	REVISED	-
PLOT SCALE	- 20.0000" / in.	DRAWN	- KAR	REVISED	-
PLOT DATE	- 7/30/2024	CHECKED	- JCC	REVISED	-
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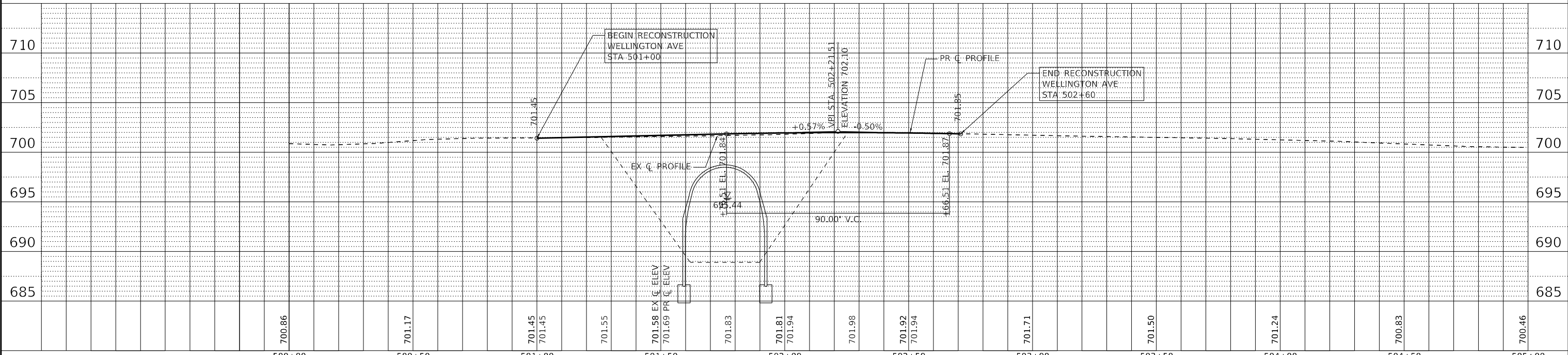
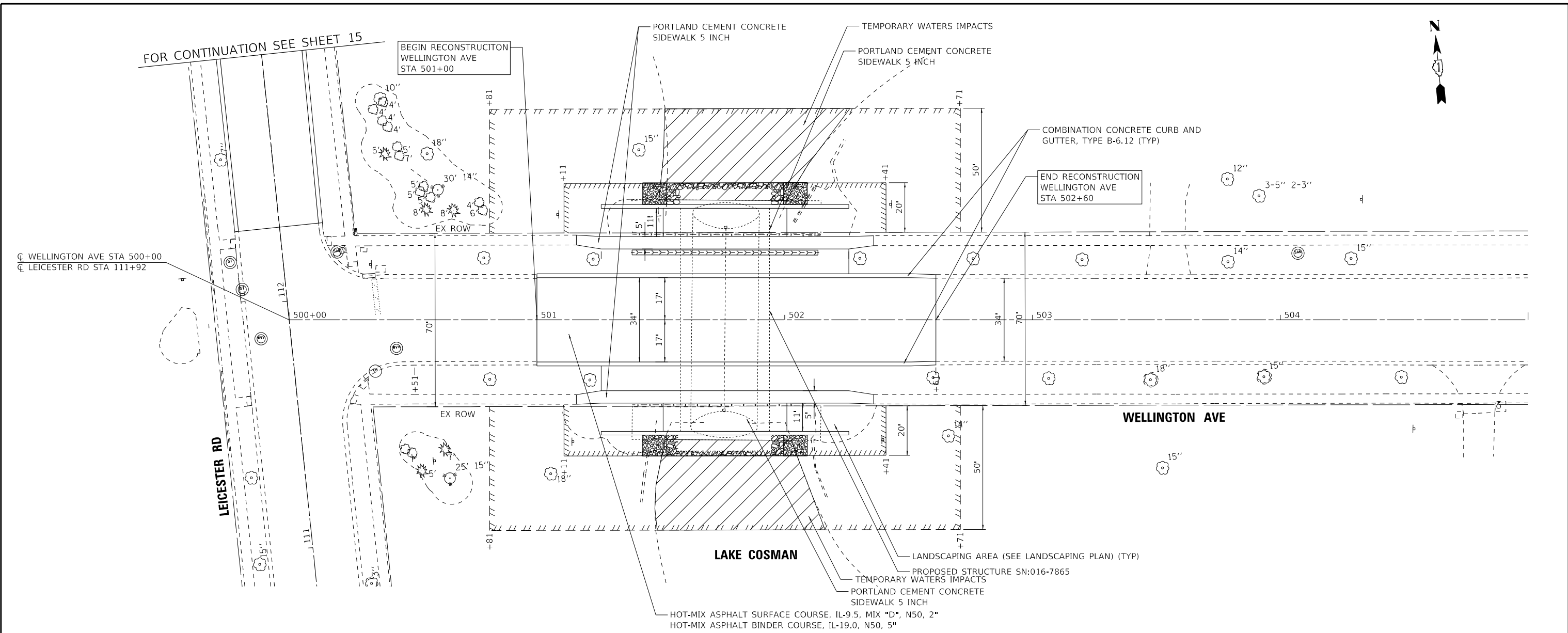
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
 LEICESTER RD

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 111+00 TO STA. 117+00

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002089	19-00070-00-BR	COOK	59	15
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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700.86	701.17	701.45	701.45	701.55	701.58 EX. C. ELEV	701.69 PR. C. ELEV	701.83	701.81	701.94	701.98	701.92	701.94	701.71	701.50	701.24	700.83	700.46
500+00	500+50	501+00	501+50	502+00	502+50	503+00	503+50	504+00	504+50	505+00							



USER NAME - mwandervelden	DESIGNED - CPM	REVISED -
	DRAWN - KAR	REVISED -
PLOT SCALE - 20.0000" / in.	CHECKED - JCC	REVISED -
PLOT DATE - 7/29/2024	DATE - 7/29/2024	FILE - 181136-SHT-PlnPrf2_Wellington.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
 WELLINGTON AVE

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 111+00 TO STA. 117+00

MUN. RTE. 21002089	SECTION 19-00070-00-BR	COUNTY COOK	TOTAL SHEETS 59	SHEET NO. 16
CONTRACT NO. 61K21			ILLINOIS FED. AID PROJECT	

MAINTENANCE OF TRAFFIC NOTES

- EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES. ANY CHANGE IN TRAFFIC CONTROL SHALL HAVE PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) DAYS NOTICE IN ADVANCE OF CONSTRUCTION ACTIVITIES.
- EXCEPT DURING THE DETOUR, TRAFFIC SHALL BE MAINTAINED ACCORDING TO THE APPLICABLE HIGHWAY STANDARDS AND ALL LANES ON ALL STREETS SHALL BE OPEN TO 2 WAY TRAFFIC AT THE END OF EACH DAY, MAINTAINING THE EXISTING LANE AND ROADWAY WIDTHS. DURING THE DETOUR, ALL LANES ON ALL STREETS SHALL BE OPEN TO 2 WAY TRAFFIC AT THE END OF EACH DAY, MAINTAINING THE EXISTING LANE AND ROADWAY WIDTHS EXCEPT AS NOTED FOR CONDITION I IN THE MAINTENANCE OF TRAFFIC PLANS.
- WORK ZONE LOCATIONS SHALL BE LIMITED TO ONLY THE AREA OF ANTICIPATED WORK FOR EACH DAY. WORK ZONE LIMITS FOR EACH DAY SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER. ADDITIONAL TRAFFIC CONTROL DEVICES OR RECONFIGURATION OF DEVICES NECESSARY TO MAINTAIN LOCAL TRAFFIC SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER.
- ALL FLAGGERS REQUIRED FOR MAINTENANCE OF TRAFFIC, INCLUDING ANY FLAGGERS NEEDED TO MAINTAIN TRAFFIC FOR SIDE STREETS AND COMMERCIAL DRIVEWAYS, SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- DAILY LANE CLOSURES SHALL BE APPROVED BY THE VILLAGE AND SHALL BE LIMITED TO ONE SIDE OF THE STREET AT A TIME.
- AGGREGATE SURFACE WILL NOT BE ALLOWED FOR MAINTAINING MAINLINE TRAFFIC. PATCHING OPERATIONS SHOULD BE STAGED SO THAT PATCHING CAN BE COMPLETED ON THE SAME DAY AS PAVEMENT REMOVAL EXCEPT AS NOTED FOR STAGE 1 CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO DRIVEWAYS DURING CONSTRUCTION. THIS WORK SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION FOR AGGREGATE FOR TEMPORARY ACCESS.
- RESIDENTS SHALL HAVE ACCESS TO THEIR DRIVEWAYS AT THE END OF EACH DAY, EXCEPT DURING ADJACENT CURB AND GUTTER CONSTRUCTION OR CONCRETE DRIVEWAY REPLACEMENT.
- CONSTRUCTION VEHICLES AND/OR EQUIPMENT SHALL NOT BE PARKED OVERNIGHT WITHIN VILLAGE RIGHT-OF-WAY IN FRONT OF RESIDENTIAL PROPERTIES. THE ENGINEER WILL ASSIST THE CONTRACTOR IN IDENTIFYING CONSTRUCTION STAGING LOCATIONS AT THE START OF CONSTRUCTION.
- SEE PAGE 2 OF PLANS FOR APPLICABLE HIGHWAY STANDARDS

SUGGESTED CONSTRUCTION STAGING NOTES

- THE CONTRACTOR SHALL SUBMIT A PREPLANNED SEQUENCE OF WORK PRIOR TO THE START OF WORK FOR REVIEW AND APPROVAL. NO WORK SHALL COMMENCE UNTIL PREPLANNED SEQUENCE OF WORK HAS BEEN APPROVED BY VILLAGE. WORK SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO RESIDENTS AND TO MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE VILLAGE AND/OR ENGINEER RESERVES THE RIGHT TO RESTRICT WORK ON ANY ROADWAY/SIDEWALK SEGMENT IF CONSTRUCTION OPERATIONS ON A PREVIOUS SEGMENT ARE UNACCEPTABLE; TRAFFIC CONTROL OPERATIONS BECOME UNACCEPTABLE; OR AN EROSION CONTROL DEFICIENCY EXISTS.
- THE ENGINEER SHALL BE NOTIFIED OF ANY CHANGES TO CONSTRUCTION STAGING. ALL CHANGES TO CONSTRUCTION STAGING MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
- THE CONTRACTOR WILL BE REQUIRED ATTEND WEEKLY PROGRESS MEETINGS WITH THE VILLAGE AND ENGINEER TO PROVIDE THE ENGINEER AND VILLAGE WEEKLY UPDATES ON THE PROPOSED WORK SCHEDULE AND UPCOMING SEQUENCE OF CONSTRUCTION ACTIVITIES. THE WORK SCHEDULE AND SEQUENCE OF WORK WILL REQUIRE APPROVAL OF THE VILLAGE AND COORDINATION WITH IMPACTED PROPERTY OWNERS.
- ROAD CLOSURES SHALL BE LIMITED TO ONE ROAD AT A TIME. THE LIECESTER ROAD CULVERT SHALL BE COMPLETED PRIOR TO THE WELLINGTON AVENUE CULVERT. THE LIECESTER DETOUR SHALL BE OPENED PRIOR TO THE CLOSURE OF WELLINGTON AVENUE.
- THE COST OF ADDITIONAL DEPLOYMENTS, SETUPS AND/OR MOBILIZATIONS NEEDED FOR CONSTRUCTION SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

SUGGESTED SEQUENCE OF CONSTRUCTION

PRIOR TO LEICESTER ROAD CLOSURE

- CLOSE ROAD AND SIDEWALK, ESTABLISH LEICESTER ROAD DETOUR ROUTE AND OTHER TRAFFIC CONTROL ITEMS.
- ESTABLISH EROSION CONTROL MEASURES AND TREE PROTECTION.

STAGE 1 - LIECESTER ROAD CLOSURE

- SAW CUT AND REMOVE EXISTING PAVEMENT, CURB & GUTTER AND SIDEWALK AS NECESSARY FOR UTILITY INSTALLATION.
- CONSTRUCT WATER MAIN AND LATERAL STORM SEWERS.
- BEGIN CONSTRUCTION OF DRAINAGE STRUCTURES, CURB & GUTTER AND PAVEMENT.
- REMOVE EXISTING CULVERT
- INSTALL PROPOSED CULVERT
- COMPLETE CONSTRUCTION OF DRAINAGE STRUCTURES, WATERMAIN, SEWERS, CURB & GUTTER, SIDEWALK AND PAVEMENT.
- REOPEN ROADWAY AND REMOVE DETOUR.

PRIOR TO WELLINGTON AVENUE CLOSURE

- CLOSE ROAD AND SIDEWALK, ESTABLISH WELLINGTON AVENUE DETOUR ROUTE AND OTHER TRAFFIC CONTROL ITEMS.
- ESTABLISH EROSION CONTROL MEASURES AND TREE PROTECTION.

STAGE 2 - WELLINGTON AVENUE CLOSURE

- SAW CUT AND REMOVE EXISTING PAVEMENT, CURB & GUTTER AND SIDEWALK AS NECESSARY FOR UTILITY INSTALLATION.
- CONSTRUCT WATER MAIN AND LATERAL STORM SEWERS.
- BEGIN CONSTRUCTION OF DRAINAGE STRUCTURES, CURB & GUTTER AND PAVEMENT.
- REMOVE EXISTING CULVERT
- INSTALL PROPOSED CULVERT
- COMPLETE CONSTRUCTION OF DRAINAGE STRUCTURES, WATERMAIN, SEWERS, CURB & GUTTER, SIDEWALK AND PAVEMENT.
- REOPEN ROADWAY AND REMOVE DETOUR.

STAGE 3

- COMPLETE LANDSCAPING AND PARKWAY RESTORATION.
- REMOVE TEMPORARY EROSION CONTROL ITEMS ONCE SEED ESTABLISHES.
- COMPLETE PUNCH LIST ITEMS.

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USER NAME - mvanderveiden	DESIGNED - MLH	REVISED -
	DRAWN - KAR	REVISED -
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PLOT DATE - 7/29/2024	DATE - 7/29/2024	FILE - 181136-SHT-MOT.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**MAINTENANCE OF TRAFFIC AND
 CONSTRUCTION STAGING NOTES**

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

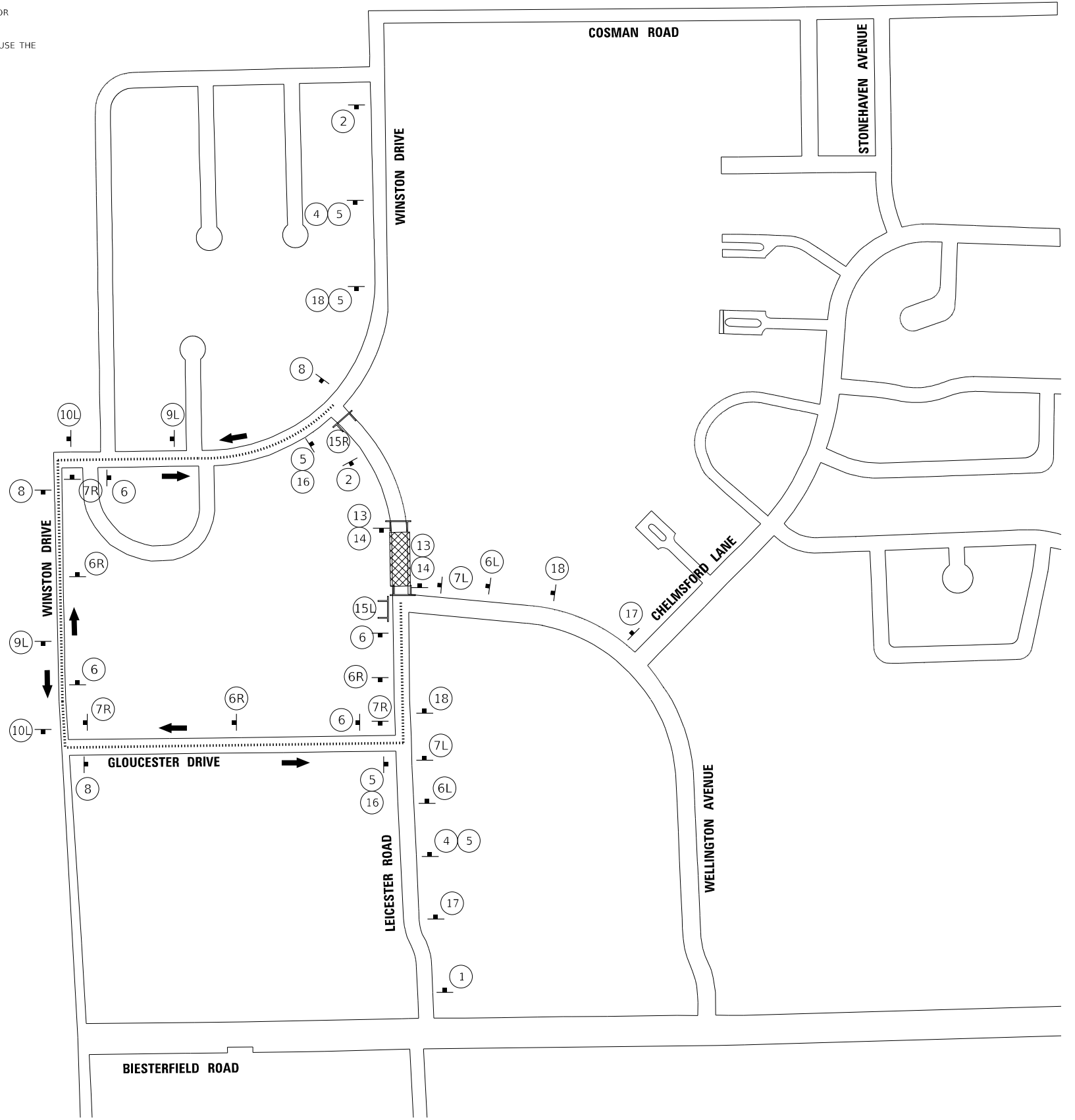
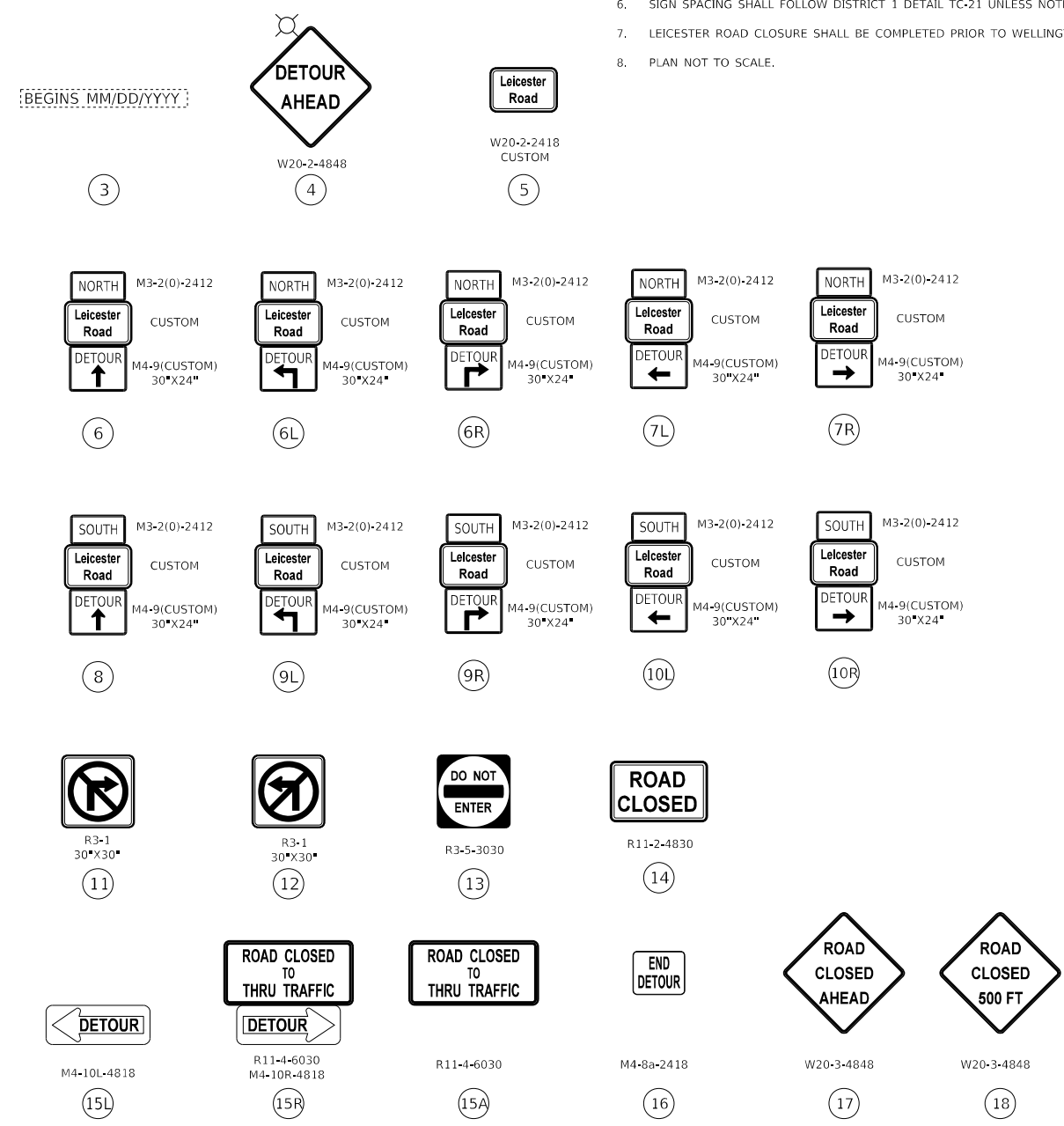
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002000	19-00070-00-BR	COOK	59	17
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

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**NORTHBOUND
 Leicester Road
 BRIDGE CLOSED**
 FOLLOW DETOUR

**SOUTHBOUND
 Leicester Road
 BRIDGE CLOSED**
 FOLLOW DETOUR

- NOTES:**
- SIGN 1 WITH SIGN 3 COVERING SHALL BE PLACED ONE (1) WEEK PRIOR TO CLOSURE. REMOVE SIGN 3 ONCE DETOUR BEGINS.
 - THE CONTRACTOR SHALL CALL J.U.L.I.E. BEFORE INSTALLING SIGNS.
 - ROAD CLOSURE SIGNAGE SHALL NOT BE INSTALLED ON ANY STREET LIGHT POLES OR SIGNAL POSTS.
 - ROAD CLOSURE SIGNAGE SHALL NOT BLOCK ANY EXISTING SIGNAGE AND CANNOT USE THE EXISTING SIGN POSTS.
 - TYPE III BARRICADE PLACEMENT SHALL FOLLOW HIGHWAY STANDARD 701901.
 - SIGN SPACING SHALL FOLLOW DISTRICT 1 DETAIL TC-21 UNLESS NOTED ON PLAN.
 - LEICESTER ROAD CLOSURE SHALL BE COMPLETED PRIOR TO WELLINGTON AVENUE.
 - PLAN NOT TO SCALE.



USER NAME - mvanderveiden	DESIGNED - MLH	REVISED -
PLOT SCALE - 250.0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE - 7/29/2024	CHECKED - JCC	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: NTS	SHEET 1 OF 2 SHEETS	STA. TO STA.
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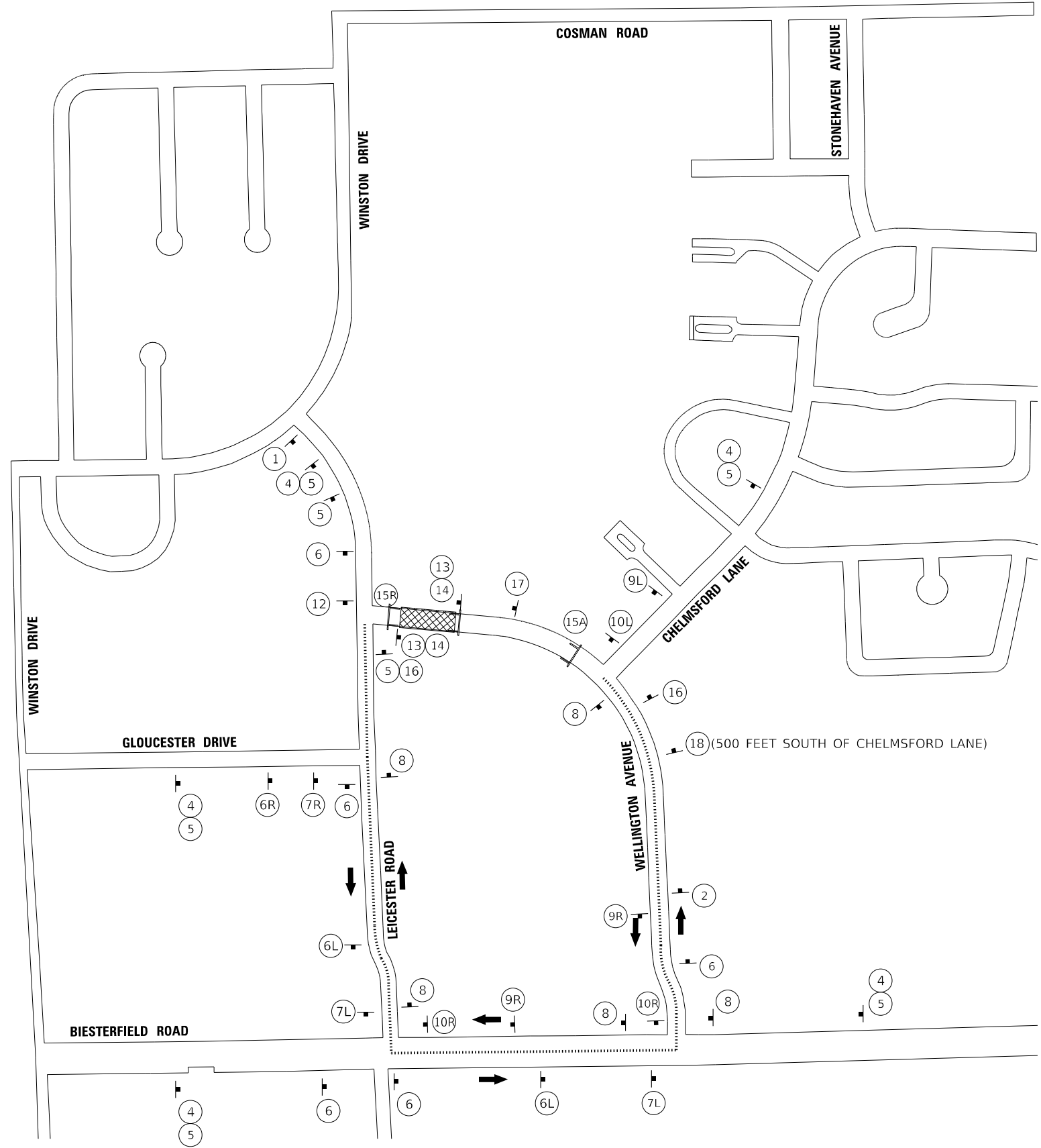
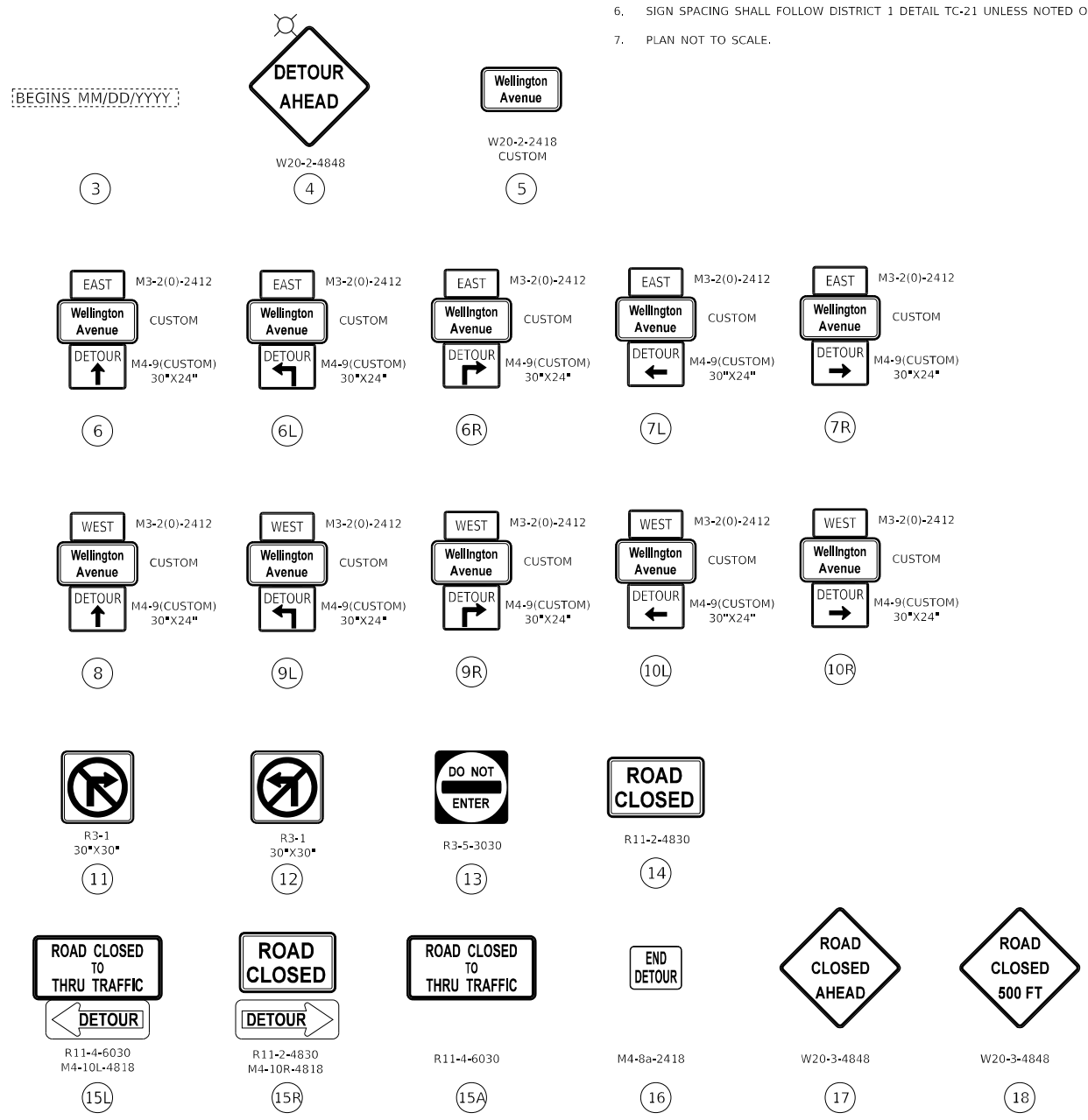
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CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

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EASTBOUND Wellington Avenue BRIDGE CLOSED
 FOLLOW DETOUR

WESTBOUND Wellington Avenue BRIDGE CLOSED
 FOLLOW DETOUR

- NOTES:**
- SIGN 1 WITH SIGN 3 COVERING SHALL BE PLACED ONE (1) WEEK PRIOR TO CLOSURE. REMOVE SIGN 3 ONCE DETOUR BEGINS.
 - THE CONTRACTOR SHALL CALL J.U.L.I.E. BEFORE INSTALLING SIGNS.
 - ROAD CLOSURE SIGNAGE SHALL NOT BE INSTALLED ON ANY STREET LIGHT POLES OR SIGNAL POSTS.
 - ROAD CLOSURE SIGNAGE SHALL NOT BLOCK ANY EXISTING SIGNAGE AND CANNOT USE THE EXISTING SIGN POSTS.
 - TYPE III BARRICADE PLACEMENT SHALL FOLLOW HIGHWAY STANDARD 701901.
 - SIGN SPACING SHALL FOLLOW DISTRICT 1 DETAIL TC-21 UNLESS NOTED ON PLAN.
 - PLAN NOT TO SCALE.

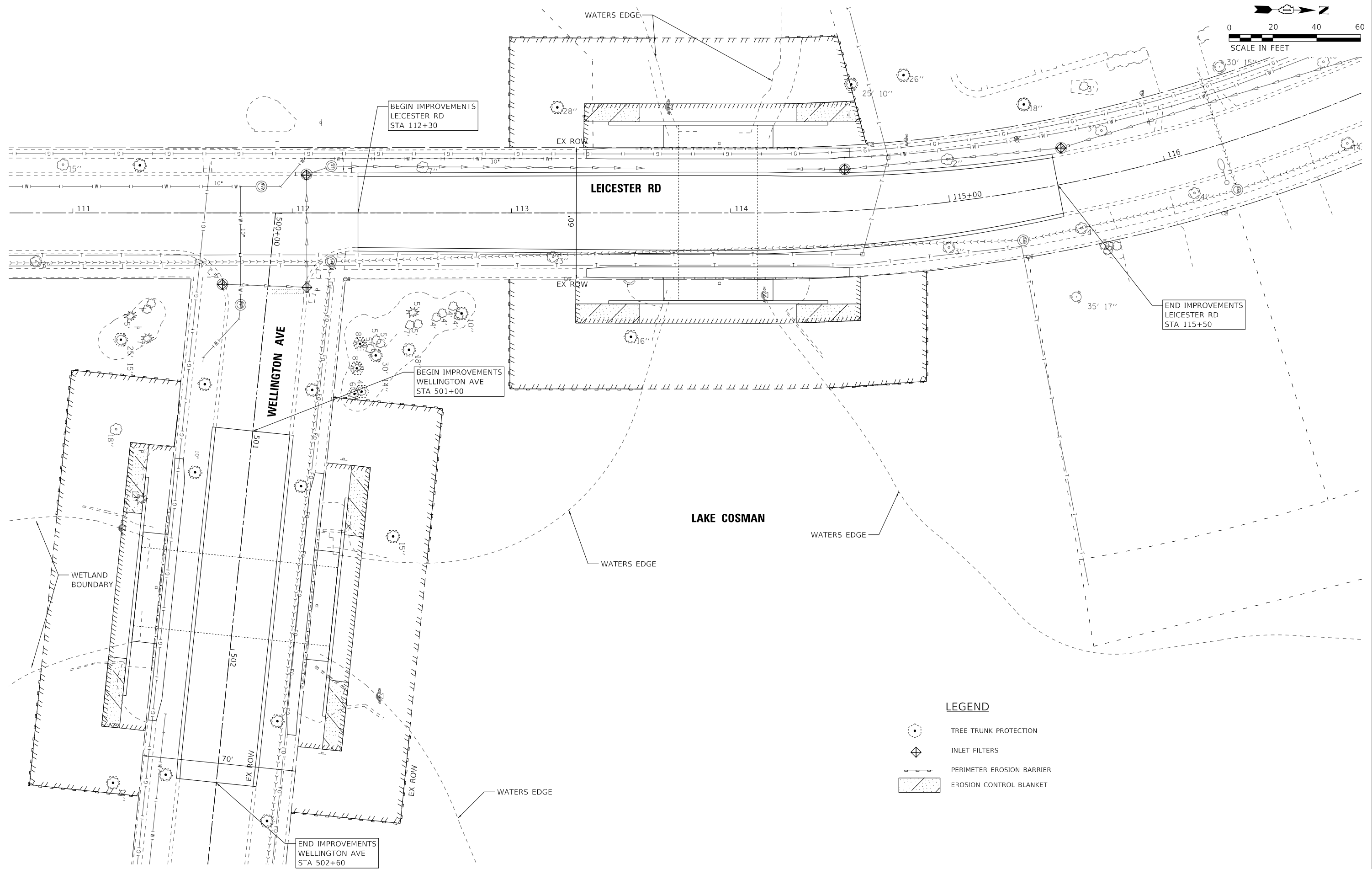
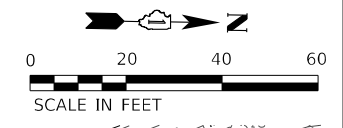


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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 250'	SHEET 2 OF 2 SHEETS	STA. TO STA.
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MUN. RTE. 21002080	SECTION 19-00070-00-BR	COUNTY COOK	TOTAL SHEETS 59	SHEET NO. 19
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				



LEGEND

- TREE TRUNK PROTECTION
- INLET FILTERS
- PERIMETER EROSION BARRIER
- EROSION CONTROL BLANKET

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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USER NAME - mvandervelden	DESIGNED - MWH	REVISED -
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	DATE - 7/30/2024	FILE - 181136-SHT-ErosionControlPlan.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11002000	19-00070-00-BR	COOK	59	20
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

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GENERAL NOTES

- A) UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, LATEST EDITION.
- B) THE RESIDENT ENGINEER MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- C) A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- D) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE NCCSWCD.
- E) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.
- F) SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE PROJECT SITE THAT ARE NOT TO BE DISTURBED SHALL BE PROTECTED FORM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL STABILIZATION IS ACHIEVED.
- G) THE CONTRACTOR IS RESPONSIBLE FOR INDICATING THE CURRENT LOCATION OF THE CONCRETE WASHOUT AND ANY MODIFICATIONS TO THE LOCATIONS OR DETAILS OF EROSION AND SEDIMENT CONTROLS ON THESE PLANS.

EROSION CONTROL INSPECTION

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH ½" RAIN EVENT.

WINTER SHUT DOWN

A WINTER SHUT DOWN IS NOT ANTICIPATED FOR THIS PROJECT. BUT IN THE EVENT THAT UNAVOIDABLE CIRCUMSTANCE REQUIRE A WINTER SHUT DOWN, THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

TEMPORARY DITCH CHECKS

TEMPORARY DITCH CHECKS ARE NOT ANTICIPATED TO BE INCLUDED IN THIS PROJECT.

PERIMETER EROSION BARRIER (SILT FENCE)

PERIMETER EROSION CONTROL BARRIER (SILT FENCE) SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS AND/OR AS DIRECTED BY THE VILLAGE. THE PERIMETER EROSION CONTROL BARRIER SHALL BE CONSTRUCTED AS DETAILED ON THE PLANS AND AS SPECIFIED IN SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

STOCK PILE LOCATIONS AND PROTECTING STOCK PILE AREAS

STOCK PILES SHOULD NOT BE PLACED IN OR NEAR CRITICAL AREAS, OR AREAS THAT HAVE HIGH POTENTIAL FOR CONTRIBUTING SEDIMENTS TO STORMWATER FACILITIES.

CONTRACTOR MAY OPT TO STOCK PILE MATERIAL. STAGING OF THE PROJECT IS AT THE DISCRETION OF THE CONTRACTOR AND COORDINATION OF STOCK PILES WILL BE WITH THE ENGINEER AND NORTH COOK COUNTY SOIL AND WATER CONSERVATION DISTRICT (NCCSWCD). STOCKPILES OF SOIL AND OTHER CONSTRUCTION MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES, NOT BEING ACTIVELY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

STABILIZED CONSTRUCTION AREA

STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.

STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE PROJECT SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE PROJECT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.

TEMPORARY STABILIZATION OF THE CONSTRUCTION AREA SHOULD TAKE PLACE AT THE END OF EACH WORK DAY.

PERMANENT STABILIZATION OF THE CONSTRUCTION AREA SHALL BE COMPLETED WITHIN 7 DAYS OF FINAL GRADING.

SOIL EROSION & SEDIMENT CONTROL NOTES

- 1) UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL, LATEST EDITION.
- 2) SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE PROJECT SITE THAT ARE NOT TO BE DISTURBED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL STABILIZATION IS ACHIEVED.
- 3) SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, PROJECT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- 4) STABILIZATION BY SEEDING SHALL INCLUDED TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.
- 5) OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.
- 6) SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
- 7) STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE PROJECT SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE PROJECT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED BELOW:
 - A. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURE BE INITIATED AS SOON AS PRACTICABLE; AND
 - B. IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
- 8) DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED. AREAS OF EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKED IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR AN EQUIVALENT CONTROL MEASURE.
- 9) PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
- 10) THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
- 11) IF DEWATERING SERVICES ARE USED, DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP OR REQUIREMENT CONTROL MEASURE). THE COOK COUNTY STORMWATER MANAGEMENT COMMISSION (CCSC) CHIEF ENGINEER OR THE CERTIFIED COMMUNITY'S DEVELOPMENT REGULATIONS OFFICER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- 12) ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION OF THE PROJECT SITE IS ACHIEVED OR AFTER TEMPORARY MEASURES ARE NO LONGER NECESSARY. TRAPPED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.
- 13) STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN ISOLATED WATERS OF COOK COUNTY (IWCC) OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.
- 14) EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE PROJECT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENT IN ORDER TO:
 - A. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER; AND
 - B. MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE PROJECT SITE TO PRECIPITATION AND TO STORMWATER.
- 15) ADEQUATE RECEPACLES SHALL BE PROVIDED FOR THE DEPOSITING OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE PROJECT CONSTRUCTION. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY CHANNEL OR IWCC. THE PROJECT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
- 16) THE CCSC CHIEF ENGINEER OR THE CERTIFIED COMMUNITY'S DEVELOPMENT REGULATIONS OFFICER MAY REQUIRE ADDITIONAL OR ALTERNATE SOIL EROSION AND SEDIMENT CONTROL MEASURES, BASED ON PROJECT SITE SPECIFIC CONSIDERATIONS AND THE EFFECTIVENESS OF THE INSTALLED CONTROL MEASURES.
- 17) QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE OWNER ONLY. PAYMENT WILL BE MADE BASED ON ACTUAL QUANTITIES INSTALLED AS MEASURED BY THE ENGINEER.
- 18) LAYOUT OF ALL PLANT MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
- 19) SEED TO LIMITS OF DISTURBANCE FOR RESTORATION ONLY. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ANY UNAUTHORIZED DISRUPTION OUTSIDE OF DESIGNATED CONSTRUCTION AREA.
- 20) CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL IN ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE PROTECTED WITHIN 24 HOURS. DO NOT DISTURB MORE AREA THAN CAN BE COMPLETED AND PROTECTED WITHIN 24 HOURS.



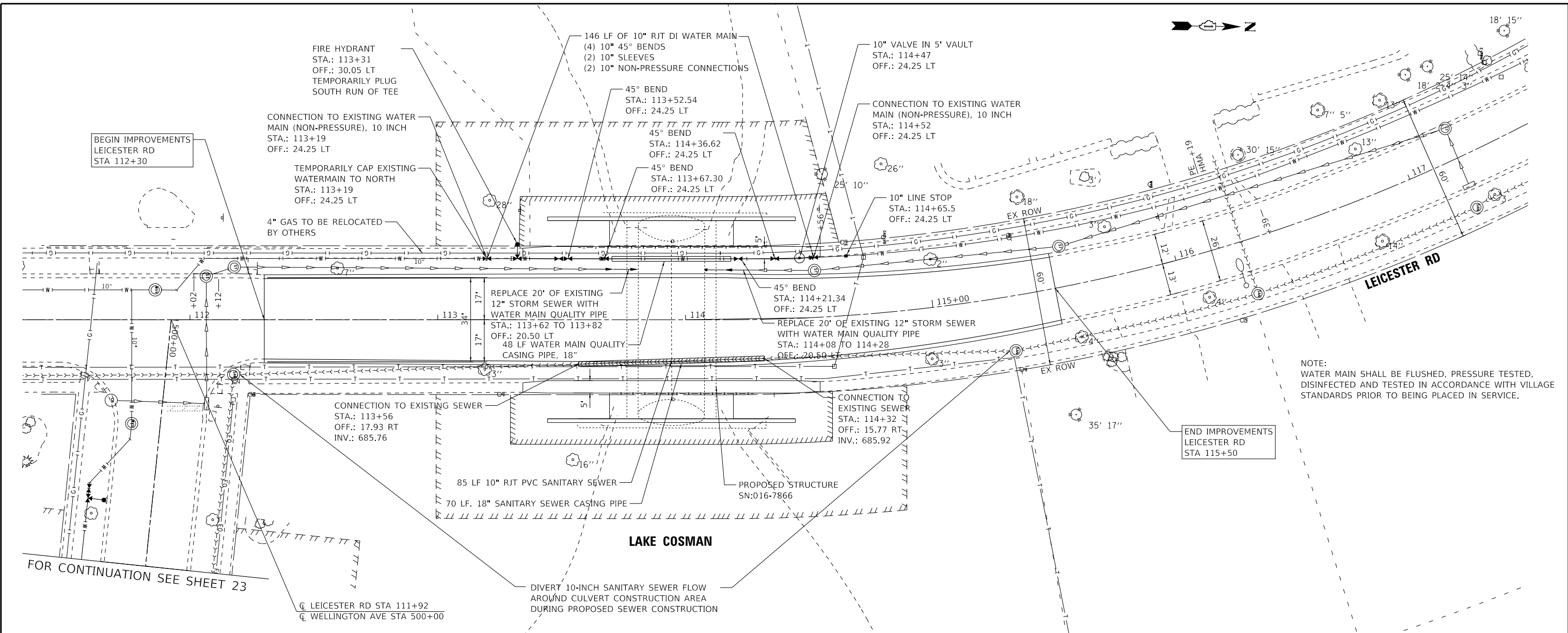
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

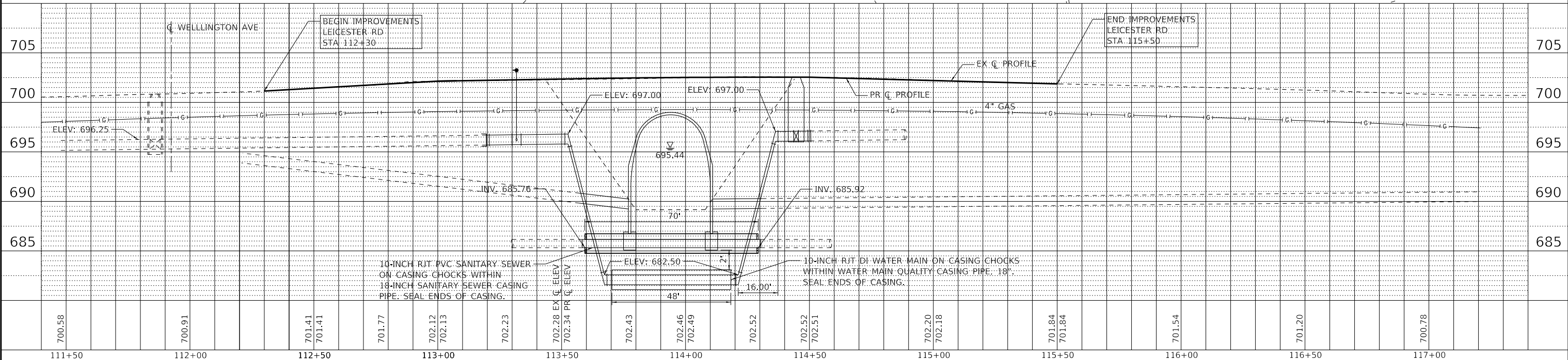
EROSION CONTROL & SEEDING NOTES			
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MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	21
CONTRACT NO. 61K21			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
 MODEL: Default
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NOTE:
 WATER MAIN SHALL BE FLUSHED, PRESSURE TESTED,
 DISINFECTED AND TESTED IN ACCORDANCE WITH VILLAGE
 STANDARDS PRIOR TO BEING PLACED IN SERVICE.



705	BEGIN IMPROVEMENTS LEICESTER RD STA 112+30																				705		
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685	INV. 685.92																				685		
700.58	700.91	701.41	701.41	701.77	702.12	702.13	702.23	702.28 EX Q ELEV	702.34 PR Q ELEV	702.43	702.46	702.49	702.52	702.52	702.51	702.20	702.18	701.84	701.84	701.54	701.20	700.78	705
111+50	112+00	112+50	113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00											705	



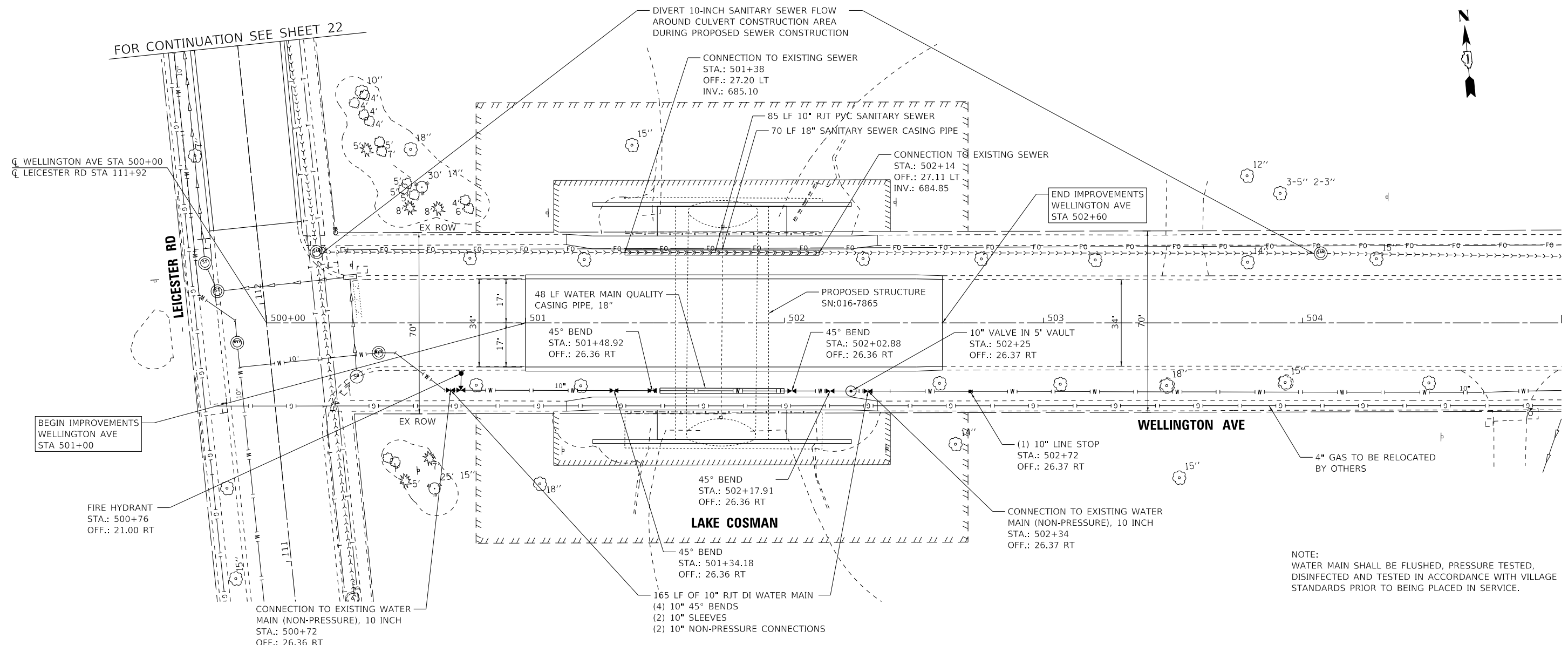
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

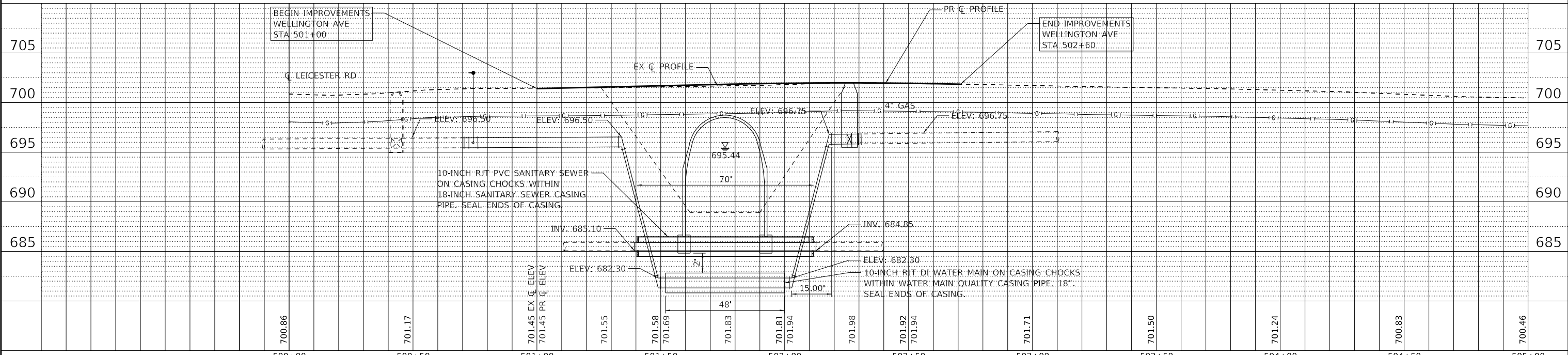
WATER MAIN, SANITARY SEWER, AND UTILITY PLAN
 LEICESTER RD
 SCALE: H:1"=20'-0"; V:1"=5'
 SHEET 1 OF 1 SHEETS
 STA. 111+00 TO STA. 117+00

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	22
CONTRACT NO. 61K21			ILLINOIS FED. AID PROJECT	

FOR CONTINUATION SEE SHEET 22



NOTE:
WATER MAIN SHALL BE FLUSHED, PRESSURE TESTED,
DISINFECTED AND TESTED IN ACCORDANCE WITH VILLAGE
STANDARDS PRIOR TO BEING PLACED IN SERVICE.



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
 MODEL Default
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USER NAME - jcoleman	DESIGNED - CPM	REVISED -
PLOT SCALE - 20.0000" / in.	DRAWN - KAR	REVISED -
PLOT DATE - 9/7/2024	CHECKED - JCC	REVISED -
	DATE - 9/7/2024	FILE - 181136-SHT-DU2_Wellington.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN, SANITARY SEWER, AND UTILITY PLAN
WELLINGTON AVE
 SCALE: H:1"=20'; V:1"=5' SHEET 1 OF 1 SHEETS STA. 111+00 TO STA. 117+00

MUN. RTE. 21002080	SECTION 19-00070-00-BR	COUNTY COOK	TOTAL SHEETS 59	SHEET NO. 23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	

A. REFERENCED SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * VILLAGE OF _____ MUNICIPAL CODE;
 * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
- THE VILLAGE OF _____ ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.
ZERO (0)

C. GENERAL NOTES

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS _____ FT.
- MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM D-3034 ASTM F-679	ASTM D-3212 ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC 4-INCH TO 36-INCH 4-INCH TO 12-INCH 14-INCH TO 48-INCH	ASTM D-2241 AWWA C900 AWWA C905	ASTM D-3139 ASTM D-3139 ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
- A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

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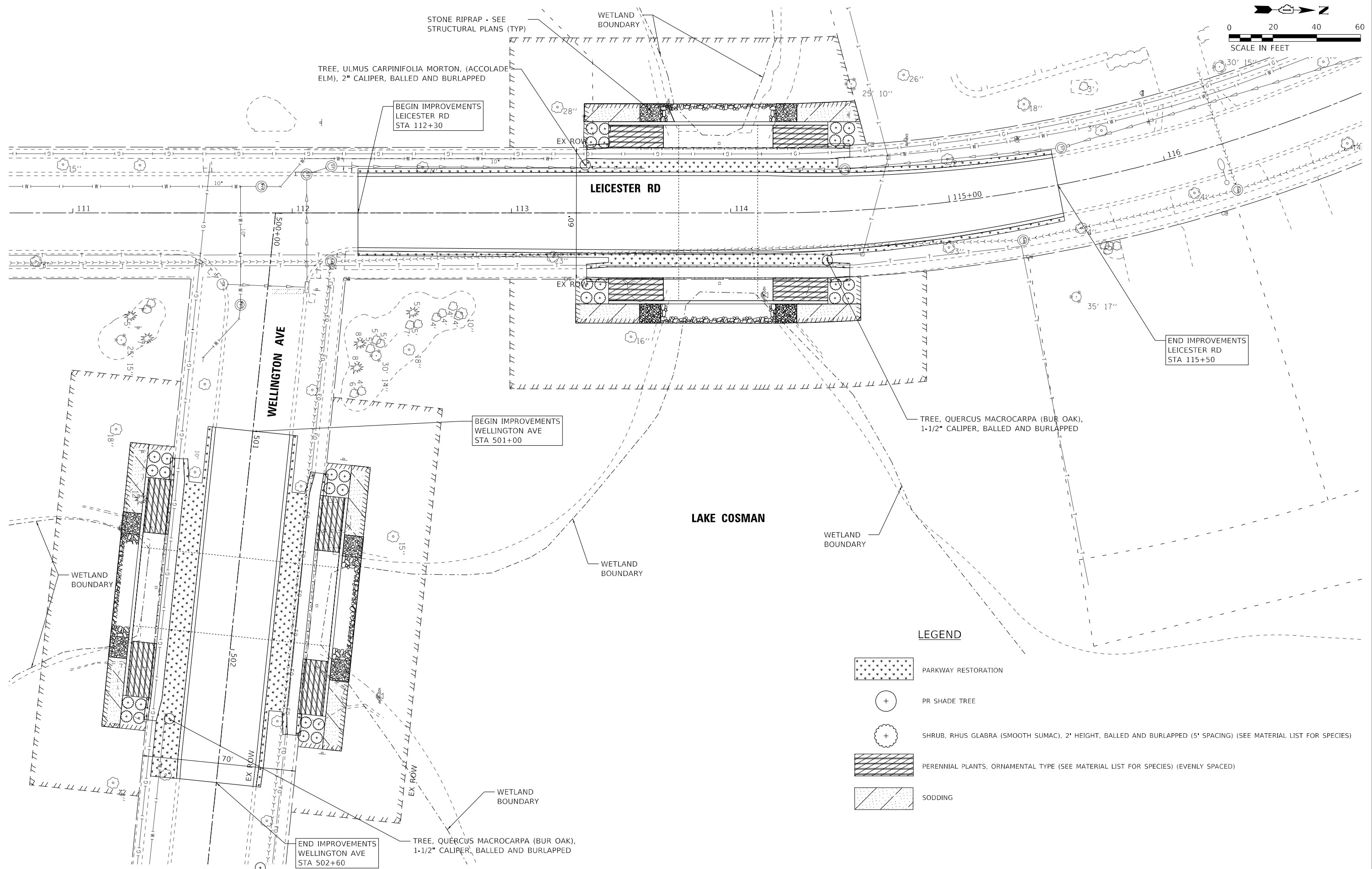
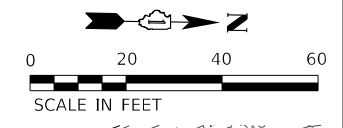
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION




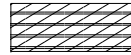
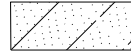
MWRD GENERAL NOTES

SCALE:AS SHOWN	SHEET 1	OF 1	SHEETS	STA. N/A	TO STA. N/A
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MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	24
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				



LEGEND

-  PARKWAY RESTORATION
-  PR SHADE TREE
-  SHRUB, RHUS GLABRA (SMOOTH SUMAC), 2' HEIGHT, BALLED AND BURLAPPED (5' SPACING) (SEE MATERIAL LIST FOR SPECIES)
-  PERENNIAL PLANTS, ORNAMENTAL TYPE (SEE MATERIAL LIST FOR SPECIES) (EVENLY SPACED)
-  SODDING

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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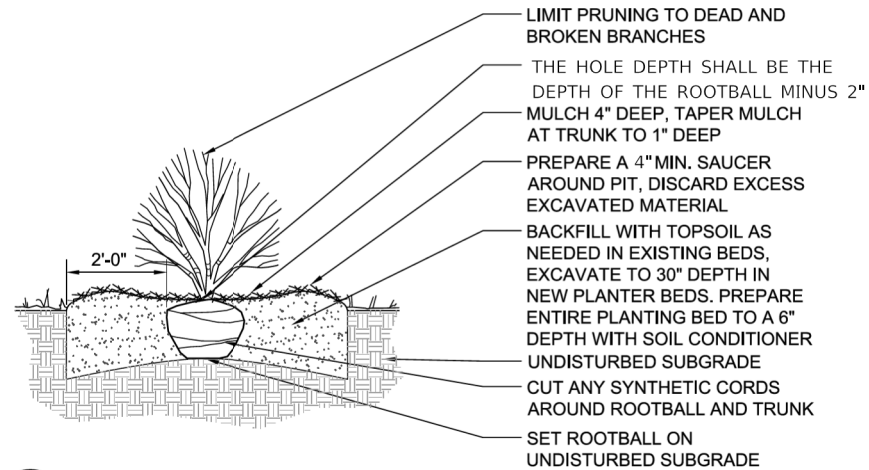
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

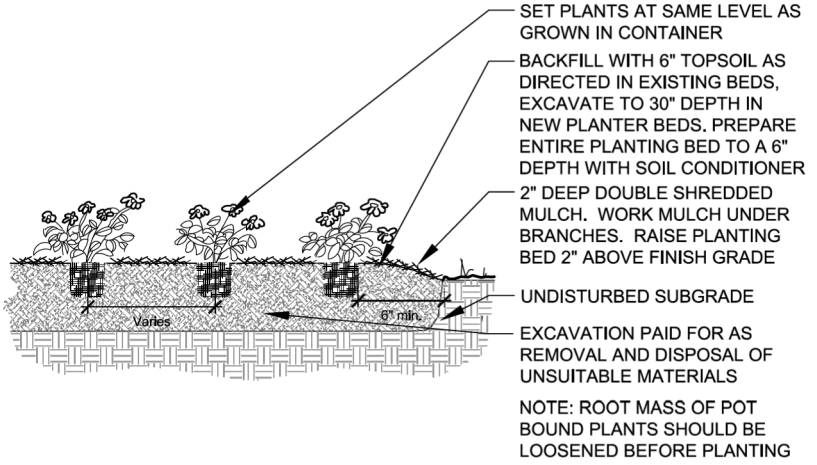
LANDSCAPING PLAN

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

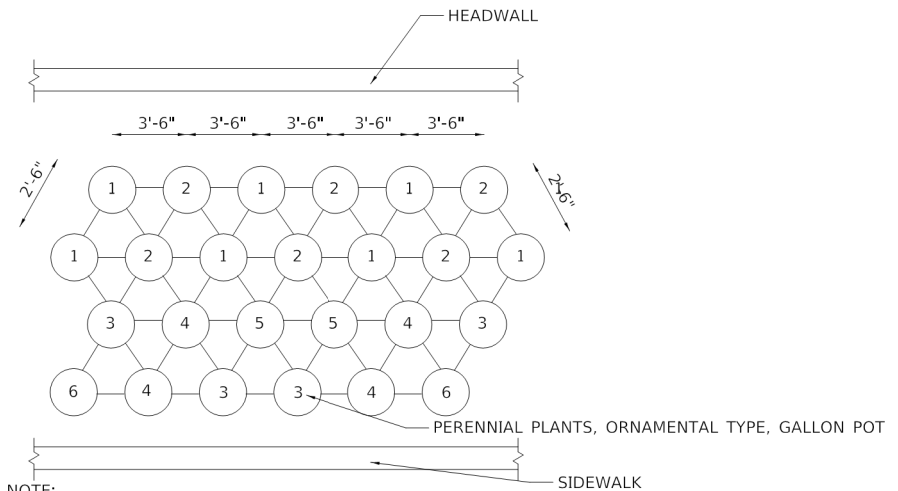
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	



1 SHRUB PLANTING
N.T.S.



2 PERENNIAL PLANTING
N.T.S.



NOTE:
1. PLANT SPECIES AND QUANTITIES SHALL BE APPROVED BY THE ENGINEER
2. SPACING IS TO BE TRIANGULAR
3. REFER TO THE PLANTING NUMBER IN THE PLANT MATERIAL LIST

3 PERENNIAL SPACING AND PLANTING PATTERN
N.T.S.

PLANT MATERIAL LIST					
CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY	
DECIDUOUS SHRUBS					
SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), CONTAINER GROWN, 3-GALLON	GRO-LOW FRAGRANT SUMAC	GRO-LOW FRAGRANT SUMAC	24" HT	32	
TREES					
TREE, ULMUS CARPINIFOLIA MORTON, (ACCOLADE ELM), 2" CALIPER, BALLED AND BURLAPPED	ACCOLADE ELM	ACCOLADE ELM	2"	1	
TREE, QUERCUS MACROCARPA (BUR OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED	BUR OAK	BUR OAK	1-1/2"	2	
PERENNIALS				PLANTING NUMBER	
ATS6	ALLIUM TANGUTICUM 'SUMMER BEAUTY'	SUMMER BEAUTY ORNAMENTAL CHIVE	1 GAL	16	6
AHK6	AMSONIA HUBRICHTII 'HALFWAY TO ARKANSAS'	HALFWAY TO ARKANSAS' NARROW LEAF BLUE	1 GAL	48	2
HR06	HEMEROCALLIS 'ROSY RETURNS'	ROSY RETURNS DAYLILY	1 GAL	32	3
PVR6	PANICUM VIRGATUM 'ROSTRAHLBUSCH'	RED SWITCH GRASS	1 GAL	56	1
RSV6	RUDBECKIA FULGIDA VAR. SPECIOSA 'VIETTE'S LITTL	VIETTE'S LITTLE SUZY BLACK-EYED SUSAN	1 GAL	32	4
SSA6	SCHIZACHRYIUM SCOPARIUM 'CAROUSEL'	CAROUSEL LITTLE BLUESTEM	1 GAL	16	5
			TOTAL PERENNIALS:	200	
			TOTAL UNITS:	2	

ALL PERENNIALS TO BE PAID FOR AS PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT (1 UNIT = 100 PLANTS)

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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	PLOT DATE = 7/29/2024	CHECKED - JCC	REVISED -
		DATE - 7/29/2024	FILE - 181136-SHT-LandscapingDetails.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING DETAILS	
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STA.	TO STA.

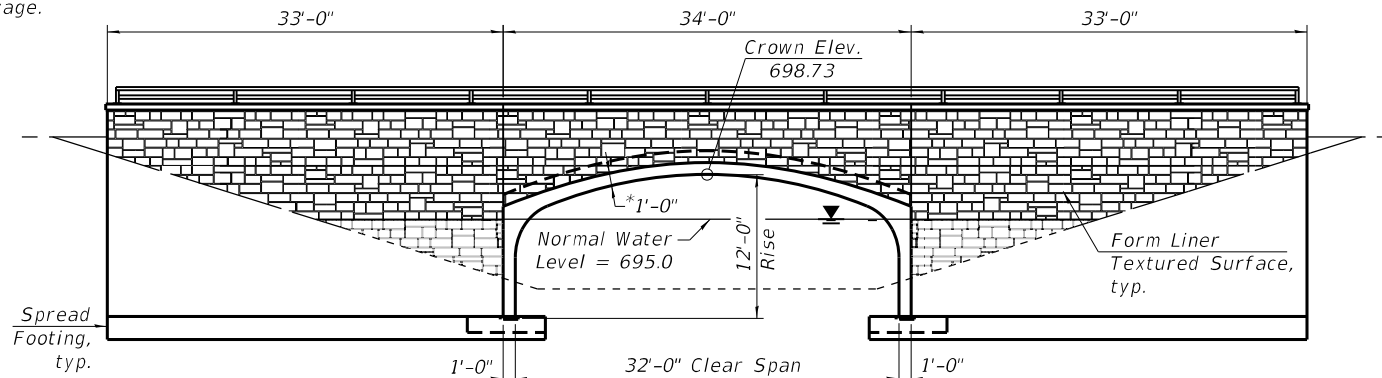
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2000	19-00070-00-BR	COOK	59	26
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

Benchmark: Northwest bolt on fire hydrant at west side of Leicester Rd. Elev. 700.49

Existing Structure: S.N. 016-7855, built in 1969, is a 26' span corrugated metal arch culvert with sloping concrete headwalls at each end. Structure to be completely removed and replaced with a three-sided precast concrete arch structure on spread footings.

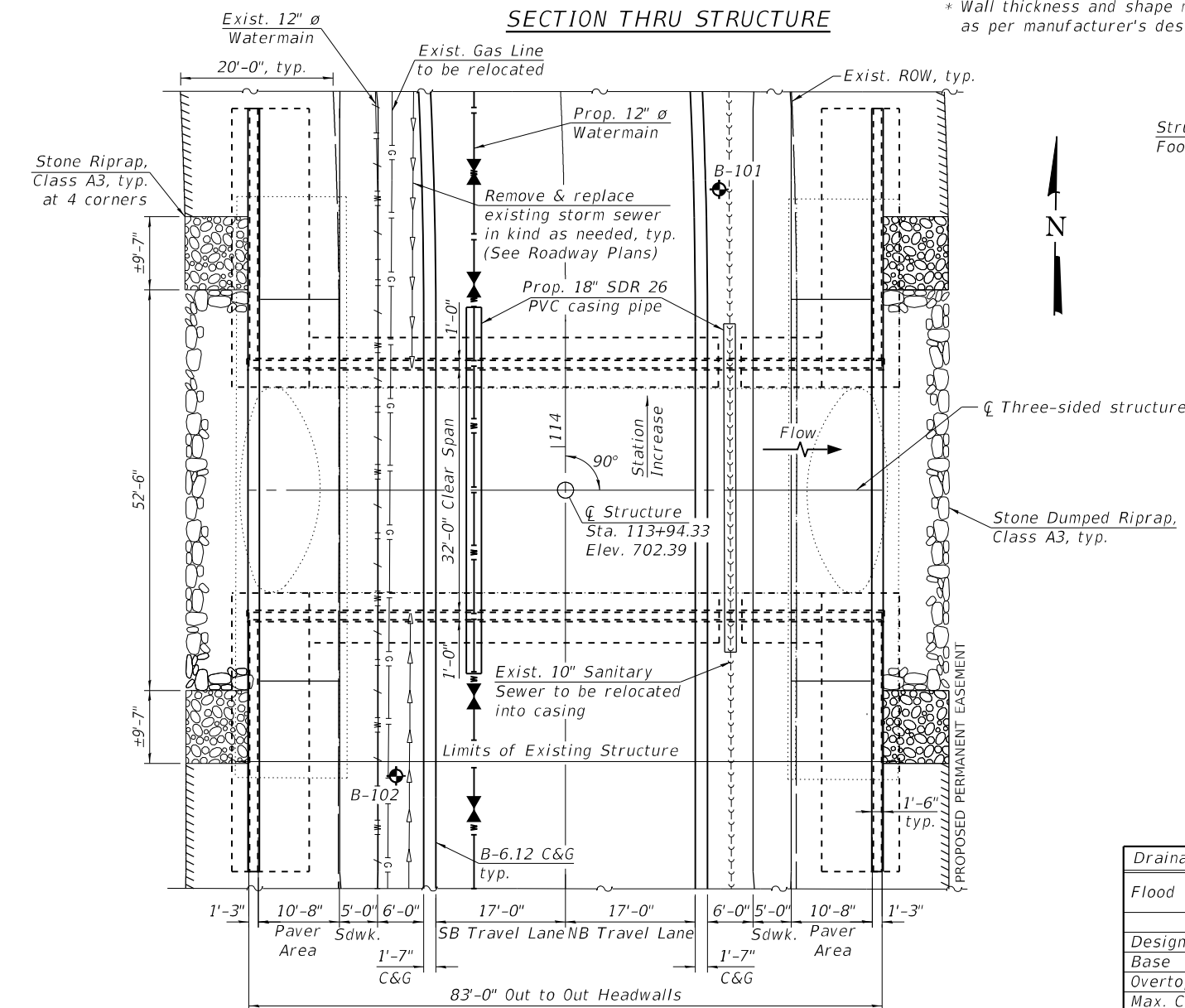
Road to be closed and traffic detoured during construction.

No Salvage.



SECTION THRU STRUCTURE

* Wall thickness and shape may vary as per manufacturer's design.



PLAN

LEGEND:

- Soil Boring
- Stone Riprap, Class A3
- Stone Dumped Riprap, Class A3

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.
Min. design fill height = 2.3 ft

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Fabric)

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

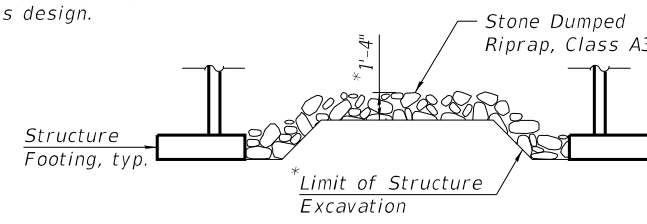
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.100g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.129g
Soil Site Class = D

LAKE COSMAN
BUILT 20__ BY
ELK GROVE VILLAGE
SEC. 19-00070-00-BR
MS 2100 STA. 113+94.33
STR. NO. 016-7866
HL-93 LOADING

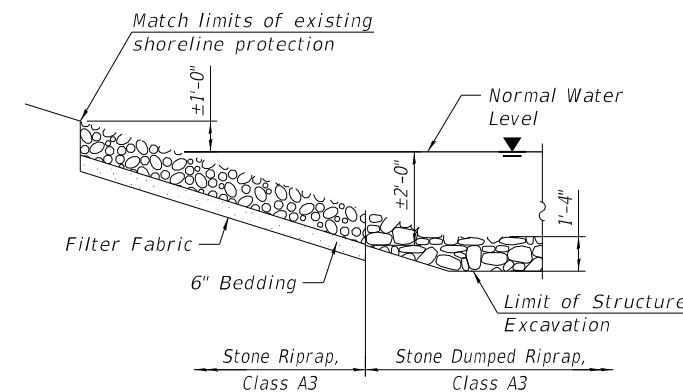
NAME PLATE

See Std. 515001



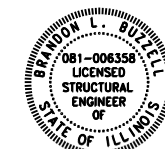
RIPRAP DETAIL WITHIN THREE-SIDED PRECAST STRUCTURE

* Riprap between footings shall not be placed at an elevation higher than the existing lake bottom. Additional excavation necessary to meet this requirement shall be included with the cost of Stone Dumped Riprap, Class A3.



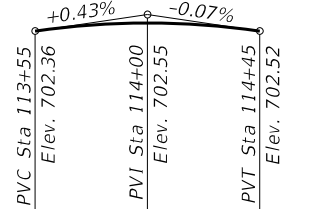
RIPRAP DETAIL OUTSIDE THREE-SIDED PRECAST STRUCTURE

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



Brandon Busell

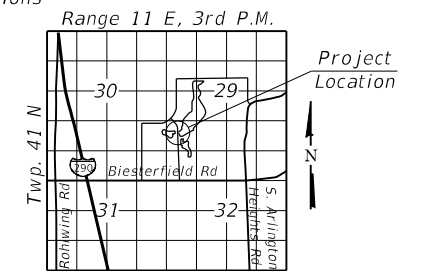
DATE: 07/29/2024
LICENSE EXPIRES 11/30/2026



90' V.C.

PROFILE GRADE

Along \bar{C} Leicester Rd



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 0.04 Sq. Mi. Low Grade Elev. 702.39 @ Sta. 113+94.33									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ² Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	10								
Base	30								
Overtopping	100	N/A	55.7	81.4	N/A	0.00	0.00	698.50	698.50
Max. Calc.	500								

GENERAL PLAN
LEICESTER ROAD OVER LAKE COSMAN
SEC. 19-00070-00-BR
COOK COUNTY
STATION 113+94.33
STRUCTURE NO. 016-7866

MODEL: Default
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BAXTER & WOODMAN
Consulting Engineers

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PLOT DATE - 7/29/2024	CHECKED - BLB	REVISED -
	DATE - 7/29/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 016-7866

SHEET 51-01 OF 51-08 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100	19-00070-00-BR	COOK	59	27
CONTRACT NO. 61K21				

ILLINOIS FED. AID PROJECT

GENERAL NOTES:

1. Work on the Wellington Avenue structure shall not begin until the Leicester Road structure is completed and re-opened to vehicular and pedestrian traffic.
2. The finished three-sided structure shall conform to the geometry shown on the plans, including the arch shape shown and the overall geometry shown, and the arch shape shall be carried through the entire interior of the structure.
3. Maximum applied service bearing pressure, $Q_{max} = 3,800$ PSF.
4. The foundation design is based on the following maximum unfactored reactions applied at the top of the footing: $V_{max} = 22.1$ k/ft, $H_{max} = 3.4$ k/ft. The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete foundation design with calculations, details and the required seals shall be submitted for review and approval.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. All excavation necessary to construct the proposed footings at the depths shown shall be paid for as Cofferdam Excavation and measured for payment in accordance with Article 502.12. All dewatering necessary to construct the proposed footing shall be included in the cost of Cofferdam (Type 2) (Location -1).
7. Removal of the existing sloped concrete headwalls, metal railings, and gabion baskets shall be included in the cost of Removal of Existing Structures.
8. Cast in place footings for three-sided structure and wingwalls will be paid for as Concrete Structures. Cast in place wingwalls and headwalls will be paid for as Concrete Structures (Retaining Wall). Precast substitution for footings, wingwalls, and headwalls will not be allowed.
9. Contractor is responsible for coordinating with the precast supplier to provide any joints or block-outs necessary to accommodate the proposed sanitary sewer and storm sewer. Cost included with Three Sided Precast Concrete Structures.
10. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
11. Anti-Graffiti Coating shall be applied to all exposed concrete surfaces above the proposed finished grade, excluding the interior of the precast arch structure.
12. See Special Provision for Three-Sided Precast Concrete Structures for design and construction requirements.

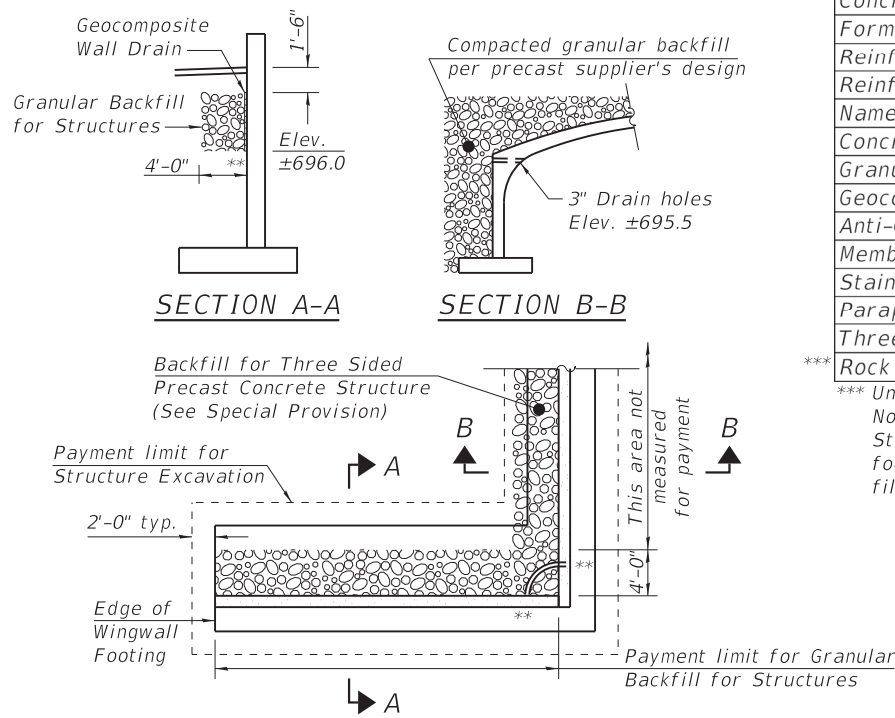
INDEX OF SHEETS

- S1-01 General Plan and Elevation
- S1-02 General Notes, Index of Sheets & Total Bill of Material
- S1-03 Footing Plan
- S1-04 Wingwall Details
- S1-05 Architectural Details
- S1-06 Soil Boring Logs (Sheet 1 of 3)
- S1-07 Soil Boring Logs (Sheet 2 of 3)
- S1-08 Soil Boring Logs (Sheet 3 of 3)

TOTAL BILL OF MATERIAL

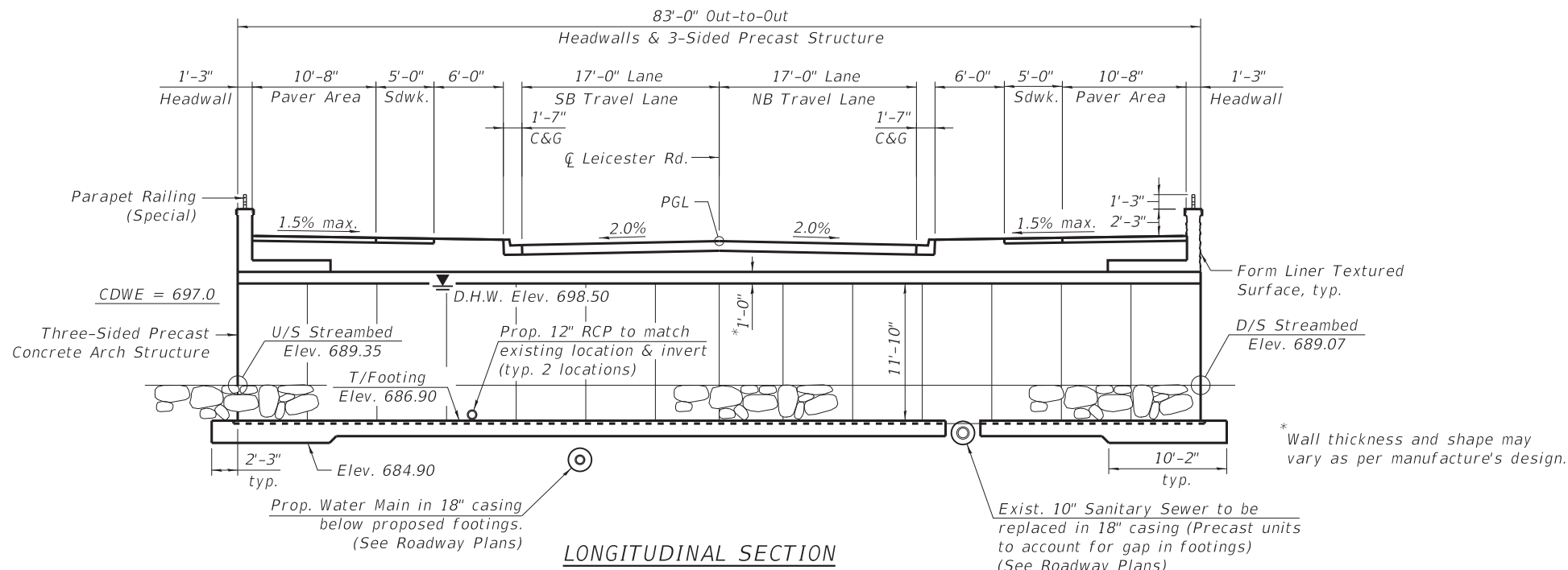
ITEM DESCRIPTION	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A3	SQ YD		40	40
Stone Dumped Riprap, Class A3	SQ YD		398	398
Filter Fabric	SQ YD		40	40
Removal Of Existing Structures No. 1	EACH		1	1
Structure Excavation	CU YD		2,339	2,339
*** Removal And Disposal Of Unsuitable Material For Structures	CU YD		250	250
Cofferdam (Type 2) (Location - 1)	EACH		1	1
Concrete Structures	CU YD		54.3	54.3
Form Liner Textured Surface	SQ FT		2,468	2,468
Reinforcement Bars	POUND		14,990	14,990
Reinforcement Bars, Epoxy Coated	POUND		27,360	27,360
Name Plates	EACH	1		1
Concrete Structures (Retaining Wall)	CU YD		235.2	235.2
Granular Backfill For Structures	CU YD		105.6	105.6
Geocomposite Wall Drain	SQ YD		355	355
Anti-Graffiti Coating	SQ FT		2,571	2,571
Membrane Waterproofing System For Buried Structures	SQ YD		340	340
Staining Concrete Structures	SQ FT		2,468	2,468
Parapet Railing (Special)	FOOT	200		200
Three-Sided Precast Concrete Structures 32X 12'	FOOT	83		83
*** Rock Fill	CU YD		250	250

*** Unsuitable soil is anticipated near the north footing to an additional depth of approximately 3 feet. Nominal quantities are provided for both "Removal and Disposal of Unsuitable Material for Structures" and "Rock Fill". Removal depth shall be determined by the Engineer after the proposed footing depths are reached, and the contractor will be paid for the actual volume excavated and filled.

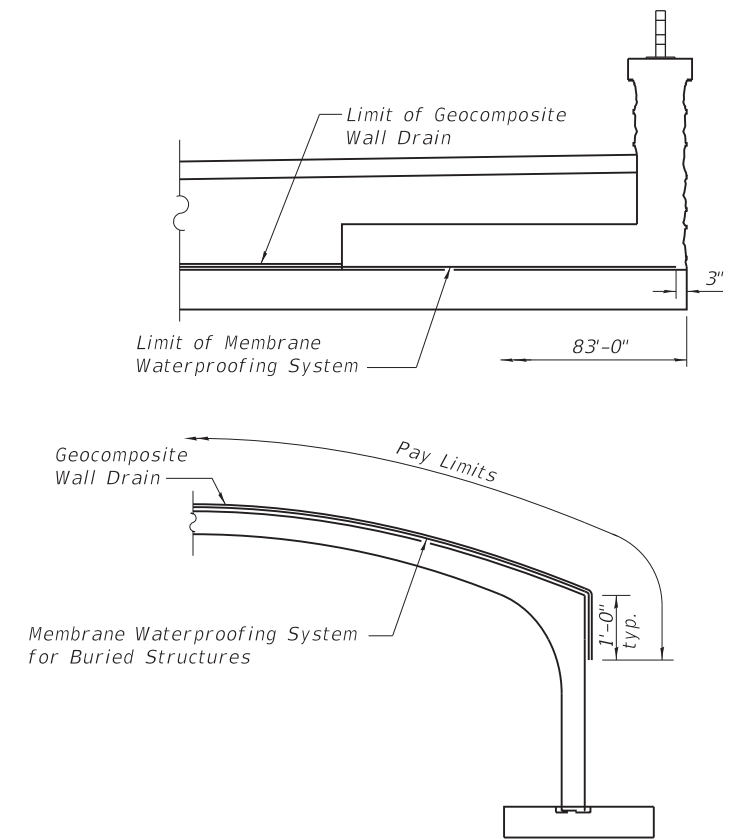


EXCAVATION, BACKFILL & DRAINAGE

** Connect outlet fitting from base of Geocomposite Wall Drain into nearest weephole in precast arch leg, typ. 4 wingwalls. Cost included with Geocomposite Wall Drain.



LONGITUDINAL SECTION



WATERPROOFING

Note: Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.

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BAXTER & WOODMAN
Consulting Engineers

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

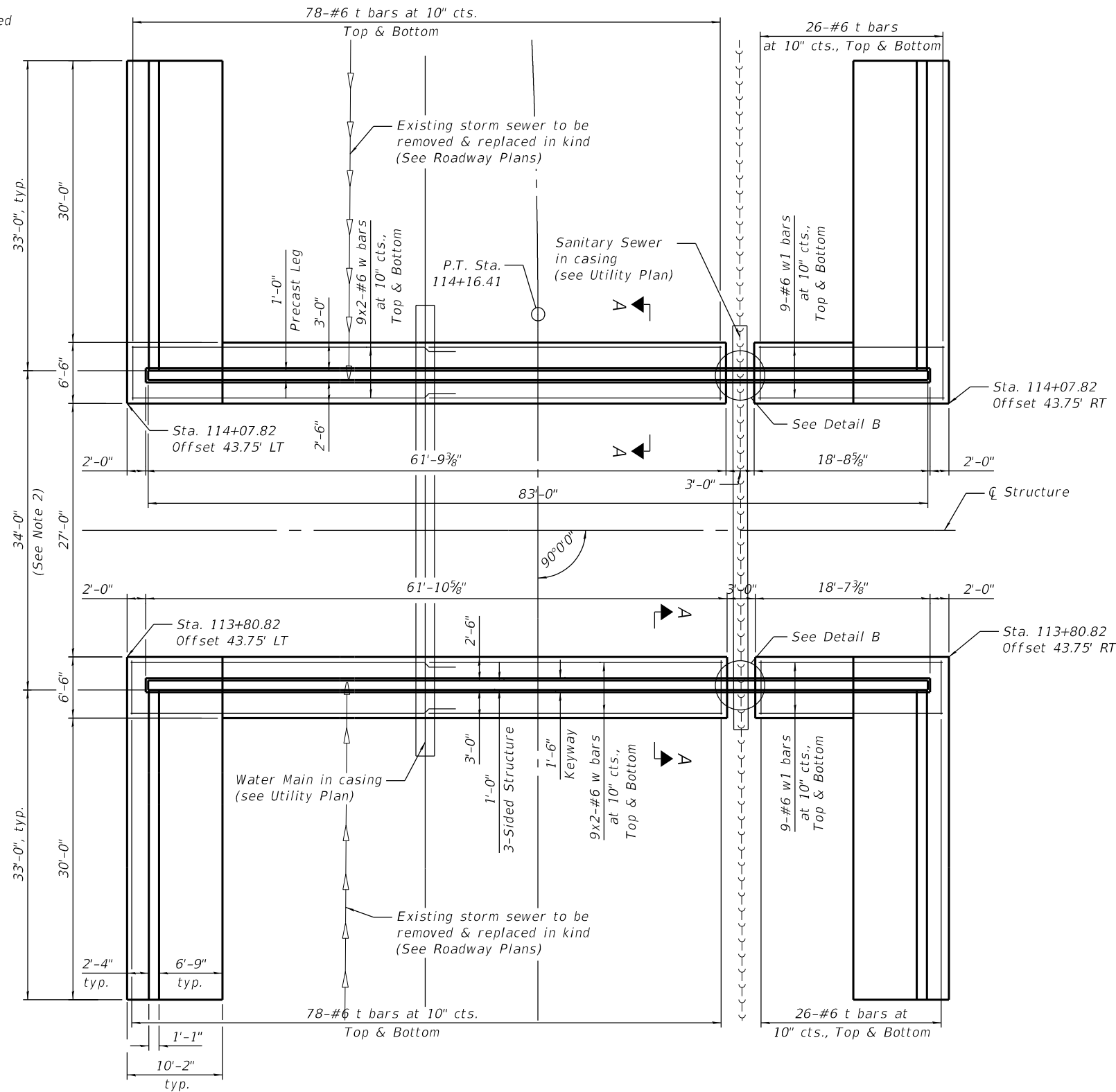
**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL
STRUCTURE NO. 016-7866**

SHEET S1-02 OF S1-08 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100	19-00070-00-BR	COOK	59	28
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

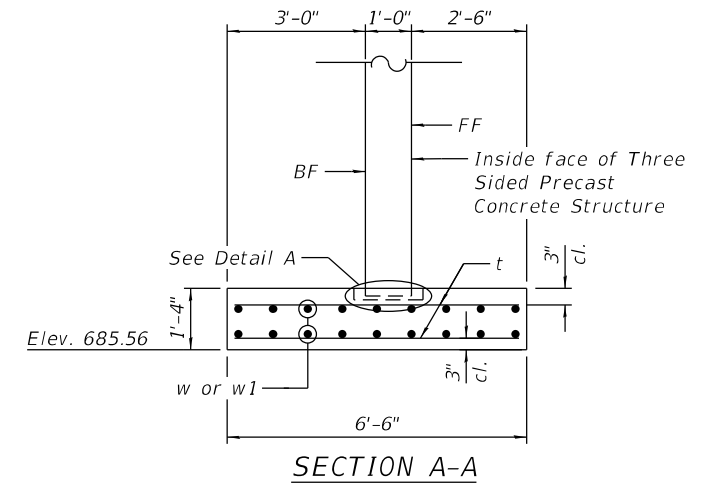
NOTES:

1. Bars indicated thus 4x2 etc. indicates four lines of bars with two lengths per line.
2. Precast slab and wall thickness may vary according to manufacturer's design. Keyway dimensions shown are based on a 1'-0" wall thickness and shall be adjusted as necessary.
3. Footing Stations and Offsets are given relative to the centerline of Leicester road. See Roadway plan sheets.
4. For Wingwall details, see Sheet S1-04.

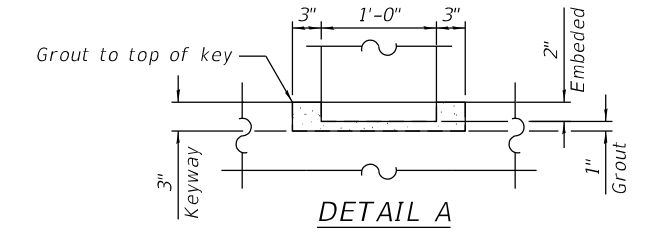


FOOTING PLAN

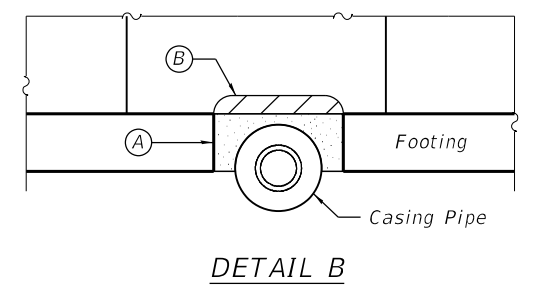
Three-sided structure footing reinforcement shown. See Sheet S1-04 for additional reinforcement.



SECTION A-A



DETAIL A



DETAIL B

- (A) Backfill area between casing and footing with CLSM meeting the requirements of Section 593. Cost included with Concrete Structures.
- (B) Fill cutout in precast structure leg with brick and mortar meeting the requirements of Section 602. Cost included with Three-Sided Precast Concrete Structures.

MIN. BAR LAP
#6 2'-7"

LEGEND:
FF Front Face
BF Back Face

MODEL: Default
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BAXTER & WOODMAN Consulting Engineers	USER NAME - mvandervelden	DESIGNED - SMA	REVISED -
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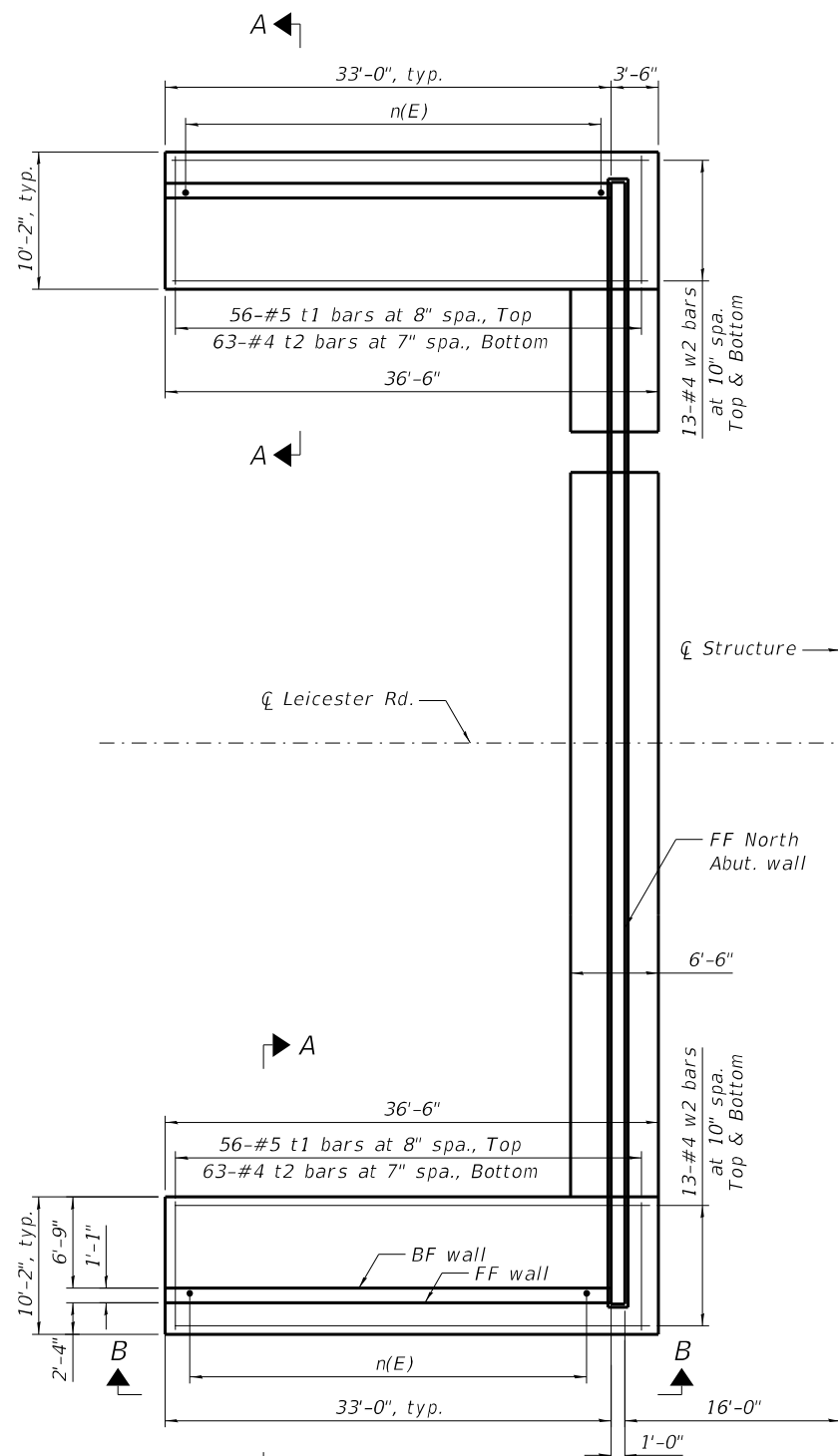
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FOOTING PLAN
STRUCTURE NO. 016-7866**

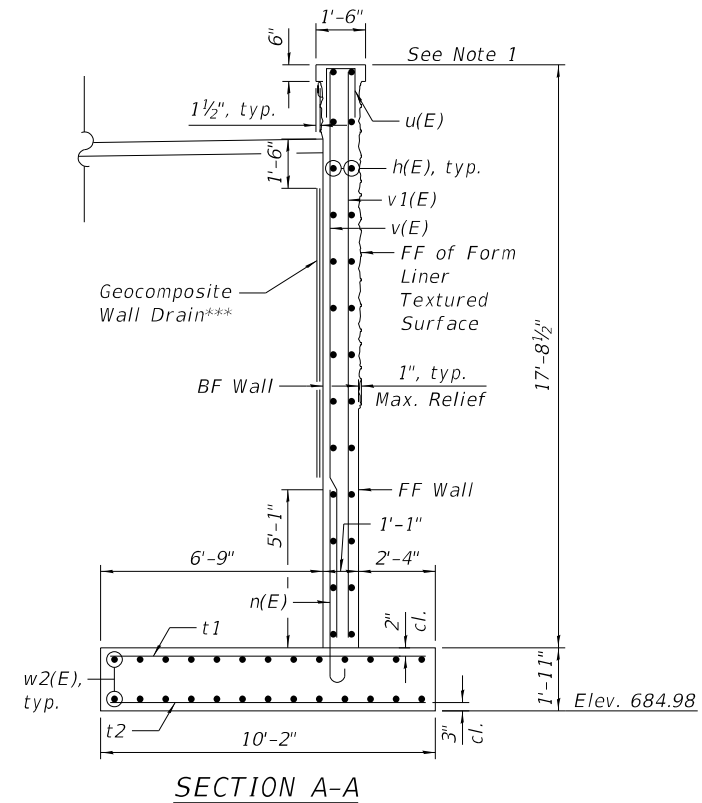
SHEET S1-03 OF 51-08 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

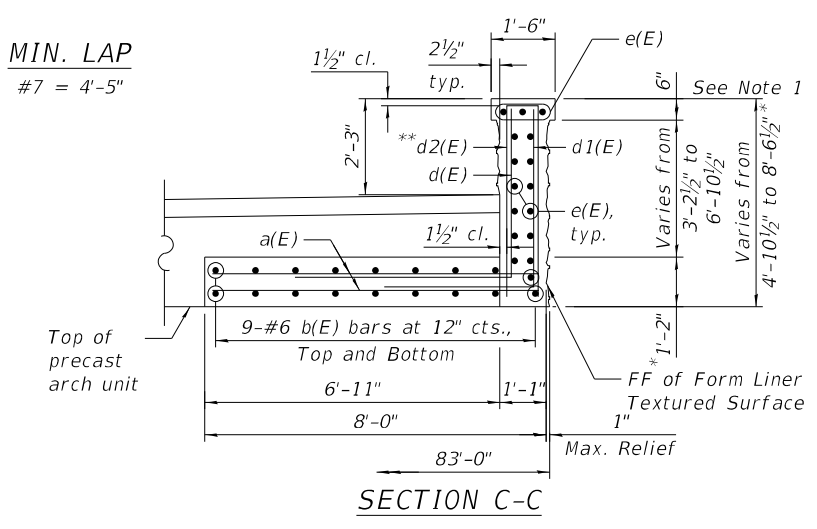
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PARTIAL PLAN
 (North wingwalls shown, South wingwalls similar and opposite)
 (Wingwall footing reinforcement shown. See Sheet S1-03 for additional reinforcement)

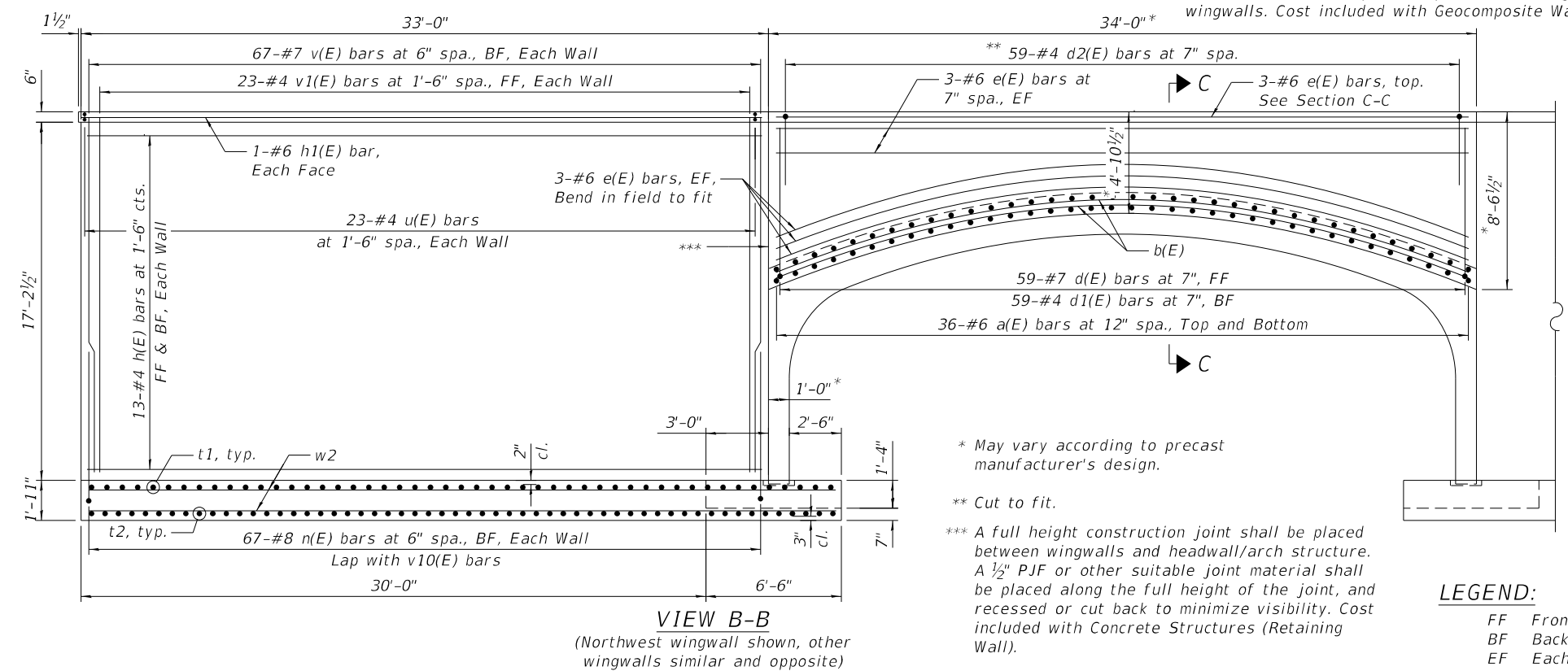
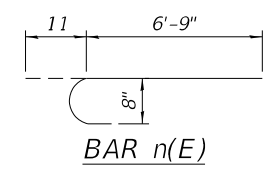
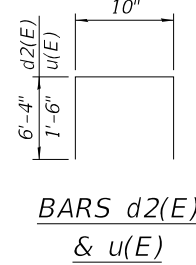
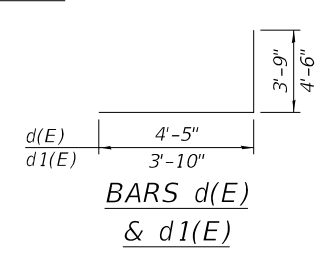


SECTION A-A



SECTION C-C

Note 1:
 Height of headwall shall be adjusted as necessary to match top of wingwall elevation, based on the actual dimensions of the precast arch unit provided by the supplier. Any proposed adjustments to the dimensions shown shall be submitted to the Engineer for approval prior to beginning wall construction.



VIEW B-B
 (Northwest wingwall shown, other wingwalls similar and opposite)

* May vary according to precast manufacturer's design.
 ** Cut to fit.
 *** A full height construction joint shall be placed between wingwalls and headwall/arch structure. A 1/2" PJF or other suitable joint material shall be placed along the full height of the joint, and recessed or cut back to minimize visibility. Cost included with Concrete Structures (Retaining Wall).

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	144	#6	7'-8"	
b(E)	36	#6	34'-8"	
d(E)	118	#7	8'-1"	
d1(E)	118	#4	8'-3"	
d2(E)	118	#4	9'-8"	
e(E)	30	#6	33'-8"	
h(E)	104	#4	32'-8"	
h1(E)	8	#6	32'-9"	
n(E)	268	#8	7'-8"	
t	416	#6	6'-2"	
t1	224	#5	9'-10"	
t2	252	#4	9'-10"	
u(E)	92	#4	3'-10"	
v(E)	268	#7	17'-4"	
v1(E)	92	#4	17'-4"	
w	72	#6	33'-0"	
w1	36	#6	20'-5"	
w2	104	#4	36'-1"	
Concrete Structures		Cu. Yd.	54.3	
Form Liner Textured Surface		Sq. Ft.	2,468	
Reinforcement Bars		Pound	14,990	
Reinforcement Bars, Epoxy Coated		Pound	27,360	
Concrete Structures (Retaining Wall)		Cu. Yd.	235.2	
**** Geocomposite Wall Drain		Sq. Yd.	355	
Anti-Graffiti Coating		Sq. Ft.	2,571	
Staining Concrete Structures		Sq. Ft.	2,468	

**** Route outlet fitting from base of Geocomposite Wall Drain to nearest weephole in precast arch leg, typ. 4 wingwalls. Cost included with Geocomposite Wall Drain

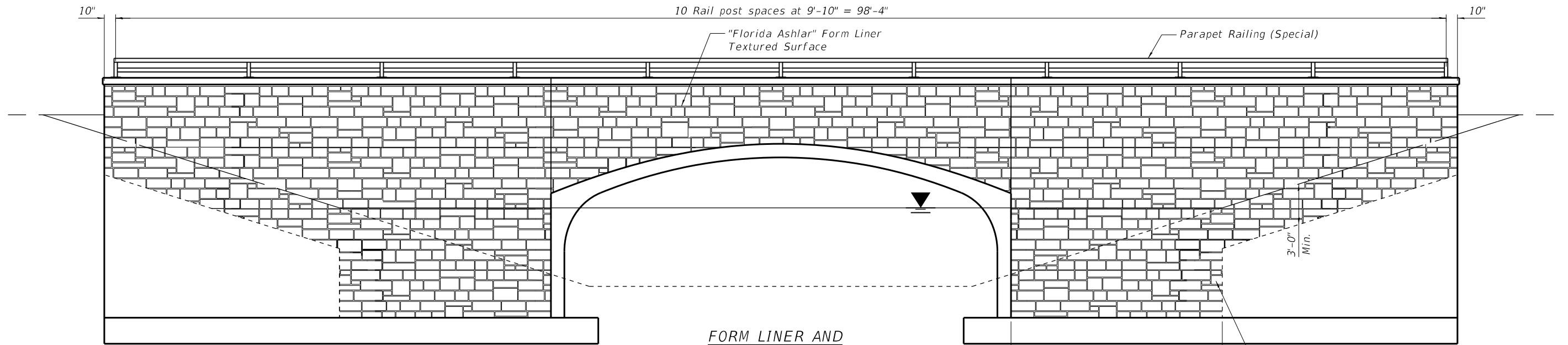
LEGEND:

FF	Front Face
BF	Back Face
EF	Each Face

BAXTER & WOODMAN Consulting Engineers	USER NAME - mvandervelden	DESIGNED - SMA	REVISED -
	PLOT SCALE - 0:1" = 1'-0"	DRAWN - SMA	REVISED -
	PLOT DATE - 7/29/2024	CHECKED - BLB	REVISED -
		DATE - 7/29/2024	REVISED -

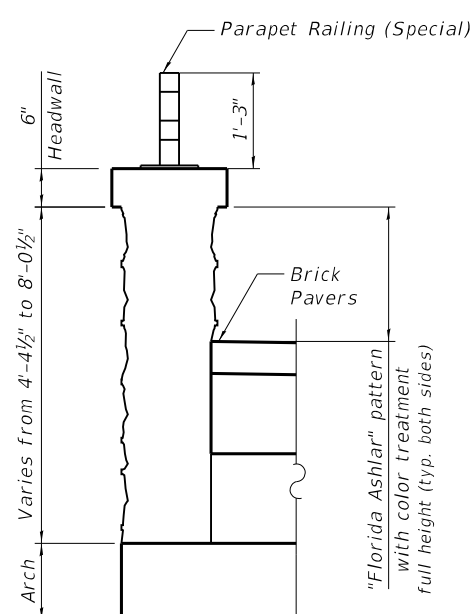
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
WINGWALLS DETAILS STRUCTURE NO. 016-7866	
SHEET S1-04 OF S1-08 SHEETS	

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100	19-00070-00-BR	COOK	59	30
CONTRACT NO. 61K21				
ILLINOIS		FED. AID PROJECT		



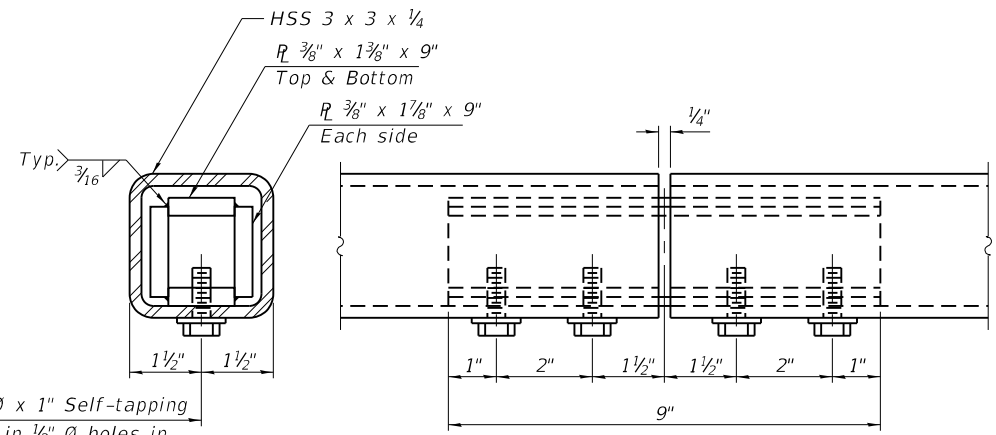
**FORM LINER AND
OUTSIDE ELEVATION VIEW**

Limits of Form Liner Textured Surface and Staining Concrete Structures (typ. all walls). No payment will be made beyond the limits shown.

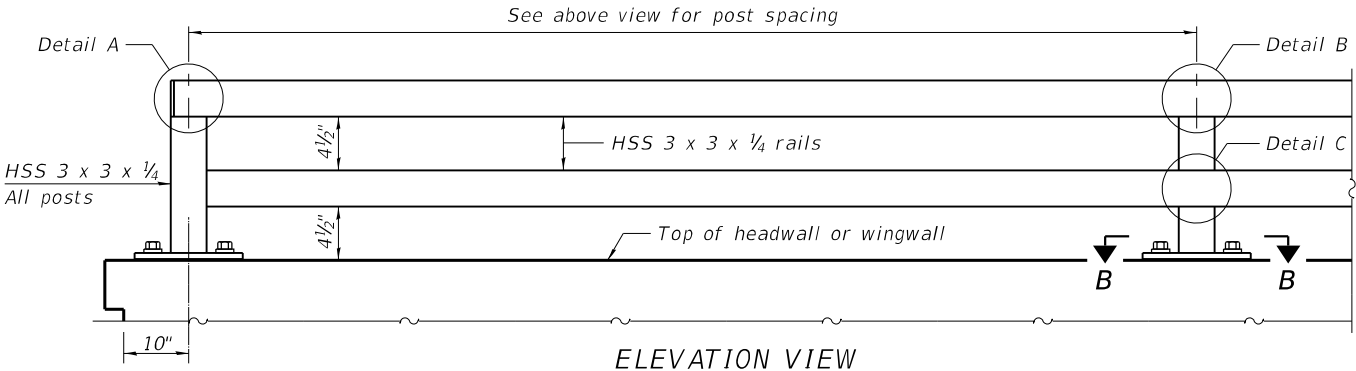


FORM LINER DETAILS

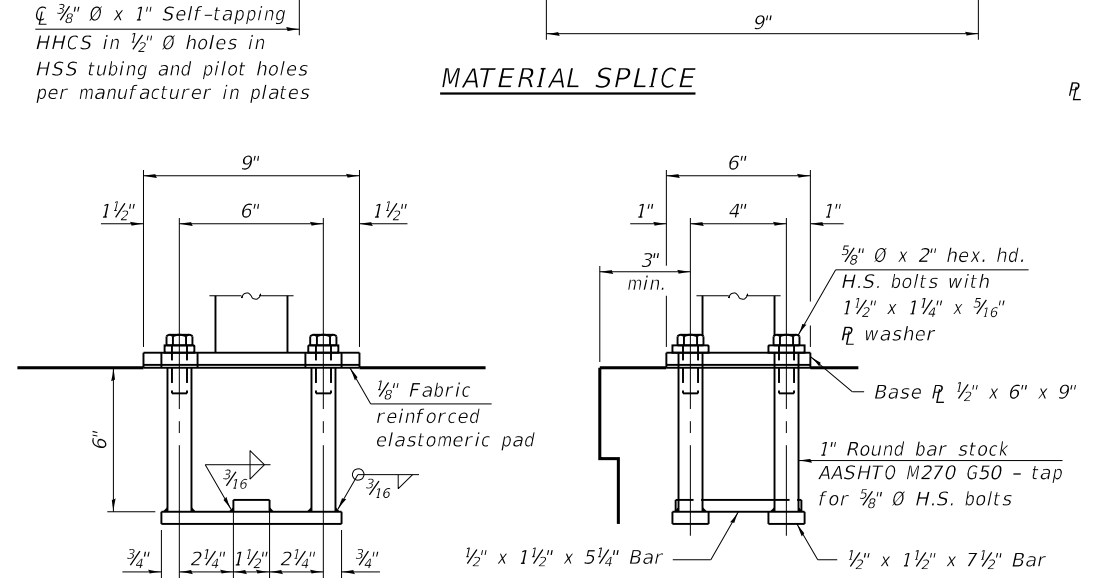
Form liner pattern, texture and color treatment shall be continuous around the perimeter of headwalls and wingwalls.



MATERIAL SPLICE

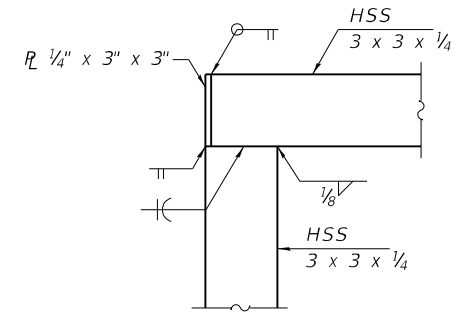


ELEVATION VIEW

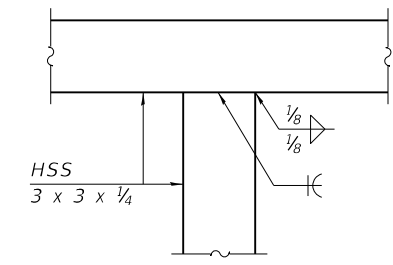


ANCHORAGE ASSEMBLY

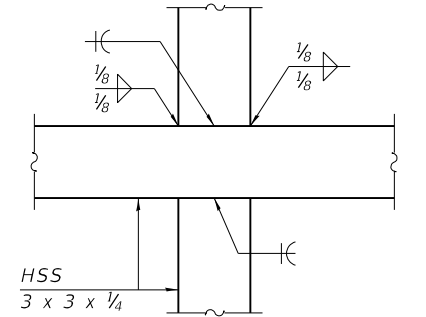
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8 inch diameter fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



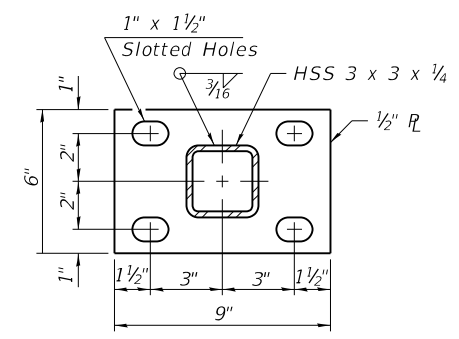
DETAIL A



DETAIL B



DETAIL C



SECTION B-B

Notes:
 Place reinforcement bars to miss anchor rod locations.
 All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 All HSS tubing used for the Parapet Railing shall be ASTM A500 grade C.
 All base plates used for the Parapet Railing shall be AASHTO M270 grade 50.
 All heavy hex nuts shall be according to ASTM A 563 grade DH.
 All fully threaded anchor rods shall be ASTM F1554 grade 105.
 The post base plate shall be fastened to the curb snug tight and given an additional 1/8 turn.
 Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
 All posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the Special Provisions. Final color shall be matte black.

MODEL: Default
 FILE NAME: P:\ELKGR\181136-Lake Cosman Bridges\CAD\Sheets\Phase II\Structural\181136-Lakecosman-SHT-505-Architectural Details.dgn



USER NAME - mvandervelden	DESIGNED - SMA	REVISED -
PLOT SCALE - 0:1" = 1/4" / in.	DRAWN - SMA	REVISED -
PLOT DATE - 7/29/2024	CHECKED - BLB	REVISED -
	DATE - 7/29/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARCHITECTURAL DETAILS
STRUCTURE NO. 016-7866**

SHEET 51-05 OF 51-08 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100	19-00070-00-BR	COOK	59	31
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

File No. 25146 **BORING LOG** B-101Client Baxter & Woodman, Inc. Sheet 1 of 2Comments _____ Project Lake Cosman Culvert Replacements Date 4/9/20Leicester Road Culvert Replacement Location Elk Grove Village, IL Drilled By ACEquipment CME 45B H.A. Other Logged By CS

Elev., ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu	
101.3'	Black silt, some clay, trace sand & roots, damp, (topsoil) - Fill			1	J					27.1			
							4						
							6						
	Brown clay, some silt, trace sand & gravel, damp, hard - Fill			2	SS	18	9	15	4.25	15.3	113.7	7.9	
							3						
							3						
				5	3	SS	18	3	6	4.5+	18.5	110.3	4.2
							2						
	Brown clay, some silt, trace sand & gravel, damp, very stiff - Fill			4	SS	18	3	6	2.75	20.5	105.4	2.7	
							3						
							3						
				10	5	SS	18	3	6	2.5	19.7	108.9	2.4
							2						
	Brown/gray/dark brown clay & silt, trace sand & gravel, damp to very damp, stiff - Fill			6	SS	14	5	8	1.25	23.6			
							3						
							3						
				15	7	SS	18	5	8	1.5	22.5	99.6	1.6
							3						
							3						
	Brown clay & silt, trace sand & gravel, damp, very stiff			8	SS	18	3	6	2.0	19.1	111.0	2.6	
							3						
							4						
				20	9	SS	18	5	9	2.25	19.3	113.4	1.9

Water Level — depth,ft. elev., ft.
 - while drilling: 20.5 & 27.5
 - after drilling: 15.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b-1

File No. 25146 **BORING LOG** B-101Client Baxter & Woodman, Inc. Sheet 2 of 2Comments _____ Project Lake Cosman Culvert Replacements Date 4/9/20Leicester Road Culvert Replacement Location Elk Grove Village, IL Drilled By ACEquipment CME 45B H.A. Other Logged By CS

Elev., ft.	Description	Depth, ft.	20	S	T	R	B	N	Pen.	W	Uw	Qu
	small saturated sand seam at 20.5'											
							2					
							3					
	Gray/brown clay & silt, trace sand & gravel, damp, very stiff			10	SS	18	4	7	2.0	11.6	130.0	3.3
							5					
							6					
	Gray clay, some silt, trace sand and gravel, damp, hard			11	SS	18	9	15	4.25	15.8	122.9	5.4
							3					
							5					
	Gray clay, some silt, trace sand and gravel, damp, very stiff			12	SS	18	6	11	2.0	19.6	112.5	2.8
							6					
							9					
	Gray medium-coarse sand, some gravel & fine sand, saturated, medium dense			13	SS	18	9	18		12.7		
							6					
							9					
				30	13	SS	18	9	18			
							6					
							9					
	Gray clay, some silt, trace and & gravel, damp, very stiff to stiff			14	SS	8	12	21	2.5	18.3		
							6					
							9					
				35	14	SS	8	12	21	2.5	18.3	
							4					
							7					
				40	15	SS	8	15	2.25	20.3	112.9	1.9

End of Boring

Water Level — depth,ft. elev., ft.
 - while drilling: 20.5 & 27.5
 - after drilling: 15.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b-2

MODEL: Default
FILE NAME: P:\ELKGRV181136-Lake Cosman Bridges\CAD\Sheets\Phase II\Structural\181136-ElkGrove-SHT-506-Boring1.dgn

USER NAME - mvanderveken	DESIGNED - SMA	REVISED -
PLOT SCALE - 0:1.0000 " = 1" / in.	DRAWN - SMA	REVISED -
PLOT DATE - 7/29/2024	CHECKED - BLB	REVISED -
	DATE - 7/29/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATIONSOIL BORING LOG (SHEET 1 OF 3)
STRUCTURE NO. 016-7866

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100	19-00070-00-BR	COOK	59	32
CONTRACT NO. 61K21				
ILLINOIS		FED. AID PROJECT		

SHEET 51-06 OF 51-08 SHEETS

7/29/2024 6:00:07 PM

File No. 25146 **BORING LOG** B-102Client Baxter & Woodman, Inc. Sheet 1 of 2Comments _____ Project Lake Cosman Culvert Replacements Date 4/9/20Leicester Road Culvert Replacement Location Elk Grove Village, IL Drilled By ACEquipment CME 45B H.A. Other Logged By CS

Elev., ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
(a) see below			1	J						33.3		
							3					
							4					
	Brown clay & silt, trace sand & gravel, damp, very stiff - Fill		2	SS	18		6	10	4.0	17.4	112.9	3.6
							4					
							4					
			5	3	SS	18	4	8	4.0	17.6	111.5	3.7
	Brown clay & silt, trace sand & gravel, damp, stiff - Fill						2					
							3					
			4	SS	14		4	7	1.5	21.0		
							2					
							3					
			10	5	SS	18	3	6	1.25	23.3	101.2	1.2
	Brown/gray/black silt, some clay, trace sand & gravel, very damp, loose - Fill						2					
							3					
							4	7		23.5		
	Gray fine-medium sand, some coarse sand & gravel, saturated, loose		7							16.8		
	Gray silt, some clay & fine sand, very damp, loose						2					
							3					
			15	8	SS	18	3	6		21.8		
	Brown/gray fine sand & silt, some medium-coarse sand, trace gravel, very damp, loose						2					
							3					
			9	SS	18		3	6		15.3		
	Brown/gray to gray silt, some clay & fine sand, damp, loose						3					
							4					
			10	SS	18		6	10		12.0		
			20	11	SS	18	6		3.5	16.2	121.9	4.9

Water Level — depth, ft. elev., ft.

- while drilling: 10.5 _____

- after drilling: 16.0 _____

- hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.

B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %

N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"

Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.

Qu - unconfined compressive strength, tons/sq. ft.

F-111b-1

File No. 25146 **BORING LOG** B-102Client Baxter & Woodman, Inc. Sheet 2 of 2Comments _____ Project Lake Cosman Culvert Replacements Date 4/9/20Leicester Road Culvert Replacement Location Elk Grove Village, IL Drilled By ACEquipment CME 45B H.A. Other Logged By CS

Elev., ft.	Description	Depth, ft.	20	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay, some silt, trace sand & gravel, damp, hard											
							5					
							8					
			12	SS	18		9	17	3.75	16.4	115.8	4.8
	Gray clay, some silt, trace sand & gravel, damp, very stiff						6					
							9					
			25	13	SS	18	13	22	4.0	17.2	129.2	3.4
							9					
							12					
	Gray medium coarse sand, some gravel & fine sand, saturated, medium dense		14	SS	18		14	26		10.4		
							7					
							8					
	Gray clay, some silt, trace sand & gravel, damp, very stiff		30	15	SS	18	10	18	3.25	14.4	122.9	3.2
							6					
							11					
			35	16	SS	18	12	23	4.25	17.8	123.2	5.2
	Gray clay, some silt, trace sand & gravel, damp, hard											
							11					
							15					
	(a) Black silt, some clay, trace sand & roots, damp, (topsoil) - Fill - 8"		40	17	SS	12	16	31	3.75	20.2	117.4	4.1

End of Boring

Water Level — depth, ft. elev., ft.

- while drilling: 10.5 _____

- after drilling: 16.0 _____

- hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.

B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %

N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"

Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.

Qu - unconfined compressive strength, tons/sq. ft.

F-111b-2

MODEL: Default
FILE NAME: P:\ELKGRV181136-Lake Cosman Bridges\CAD\Sheets\Phase II\Structural\181136-Lake Cosman-SHT-507-Boring2.dgn

USER NAME - mvandervelden	DESIGNED - SMA	REVISED -
PLOT SCALE - 0:1.0000 ** / in.	DRAWN - SMA	REVISED -
PLOT DATE - 7/29/2024	CHECKED - BLB	REVISED -
	DATE - 7/29/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATIONSOIL BORING LOG (SHEET 2 OF 3)
STRUCTURE NO. 016-7866

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100	19-00070-00-BR	COOK	59	33
CONTRACT NO. 61K21				

SHEET 51-07 OF 51-08 SHEETS

ILLINOIS FED. AID PROJECT



File No. 25146 **BORING LOG** B-103

Client Baxter & Woodman, Inc. Sheet 1 of 1

Comments _____ Project Lake Cosman Culvert Replacements Date 4/15/20

Leicester Road Culvert Replacement Location Elk Grove Village, IL Drilled By AC

Equipment CME 45B H.A. Other Logged By CS

Elev., ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
101.2'	See Core Log											
							4					
							7					
	Brown/gray clay & silt, trace sand & gravel, damp, very hard to very stiff - Fill			1	SS	18	7	14	4.5+	15.3	116.8	8.8
							5					
							5					
			5	2	SS	18	6	11	4.0	18.5	113.8	3.9
							2					
							2					
	Brown clay, some silt, trace sand & gravel, damp, medium stiff - Fill			3	SS	18	3	5	0.75	25.2	101.4	0.5
							4					
							5					
	Brown/gray clay, some silt, trace sand & gravel, damp, very stiff			4	SS	18	6	11	4.5+	20.7	107.7	3.6
			10									
	End of Boring											
			15									
			20									

Water Level — depth, ft. elev., ft.

- while drilling: 1.0 _____

- after drilling: 9.0 _____

- hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.

B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %

N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"

Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.

Qu - unconfined compressive strength, tons/sq. ft.

F-111b-1



File No. 25146 **BORING LOG** B-104

Client Baxter & Woodman, Inc. Sheet 1 of 1

Comments _____ Project Lake Cosman Culvert Replacements Date 4/15/20

Leicester Road Culvert Replacement Location Elk Grove Village, IL Drilled By AC

Equipment CME 45B H.A. Other Logged By CS

Elev., ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
101.1'	See Core Log											
							4					
							6					
	Brown/gray clay & silt, trace sand & gravel, damp, very hard to very stiff to stiff to hard - Fill			1	SS	18	8	14	3.0	15.6	116.3	7.4
							3					
							5					
			5	2	SS	15	7	12	3.0	19.0	109.3	2.9
							3					
							3					
				3	SS	12	3	6	1.75	20.3	105.1	1.0
							3		3.75	18.7	110.0	4.3
			4									
	Brown/gray silt, some clay, trace sand & gravel, very damp, loose - Fill						2					
							3					
			10	5	SS	18	3	6		24.4		
	End of Boring											
			15									
			20									

Water Level — depth, ft. elev., ft.

- while drilling: 1.0 _____

- after drilling: 9.0 _____

- hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.

B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %

N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"

Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.

Qu - unconfined compressive strength, tons/sq. ft.

F-111b-1

MODEL: Default
FILE NAME: P:\ELKGRV181136-Lake Cosman Bridges\CAD\Sheets\Phase II\Structural\181136-Leicester-SHT-508-Boring3.dgn



USER NAME - mvanderveken	DESIGNED - SMA	REVISED -
DRAWN - SMA	REVISED -	
PLOT SCALE - 0:1.0000 " = 1" / in.	CHECKED - BLB	REVISED -
PLOT DATE - 7/29/2024	DATE - 7/29/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG (SHEET 3 OF 3)
STRUCTURE NO. 016-7866

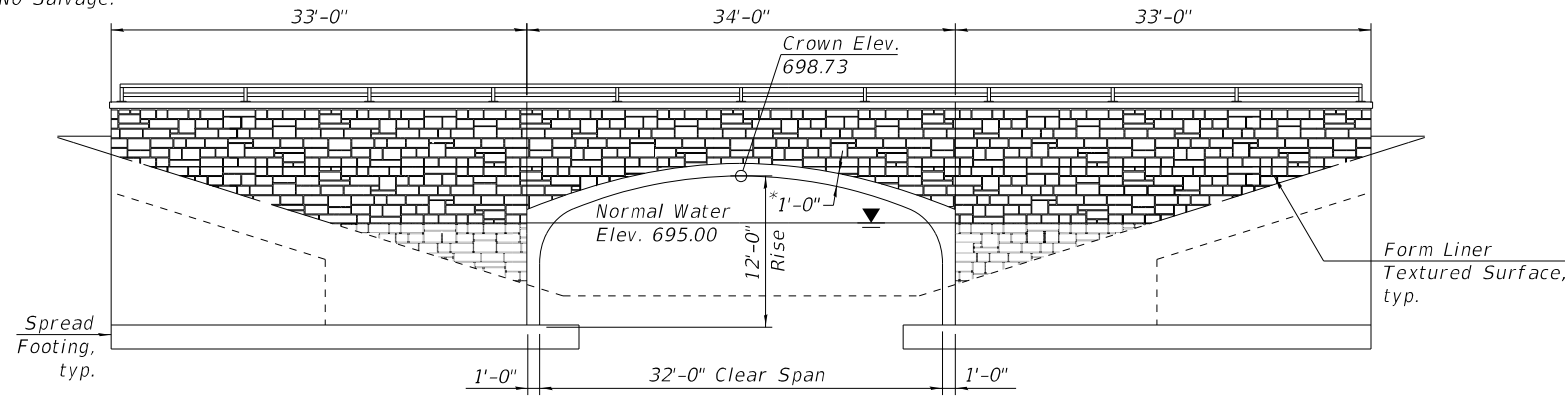
MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100	19-00070-00-BR	COOK	59	34
CONTRACT NO. 61K21				
SHEET 51-08 OF 51-08 SHEETS		ILLINOIS FED. AID PROJECT		

Benchmark: Northwest bolt on fire hydrant at west side of Leicester Rd. Elev. 700.49

Existing Structure: S.N. 016-7854, built in 1969, is a 26' span corrugated metal arch culvert with sloping concrete headwalls at each end. Structure to be completely removed and replaced with a three-sided precast concrete arch structure on spread footings.

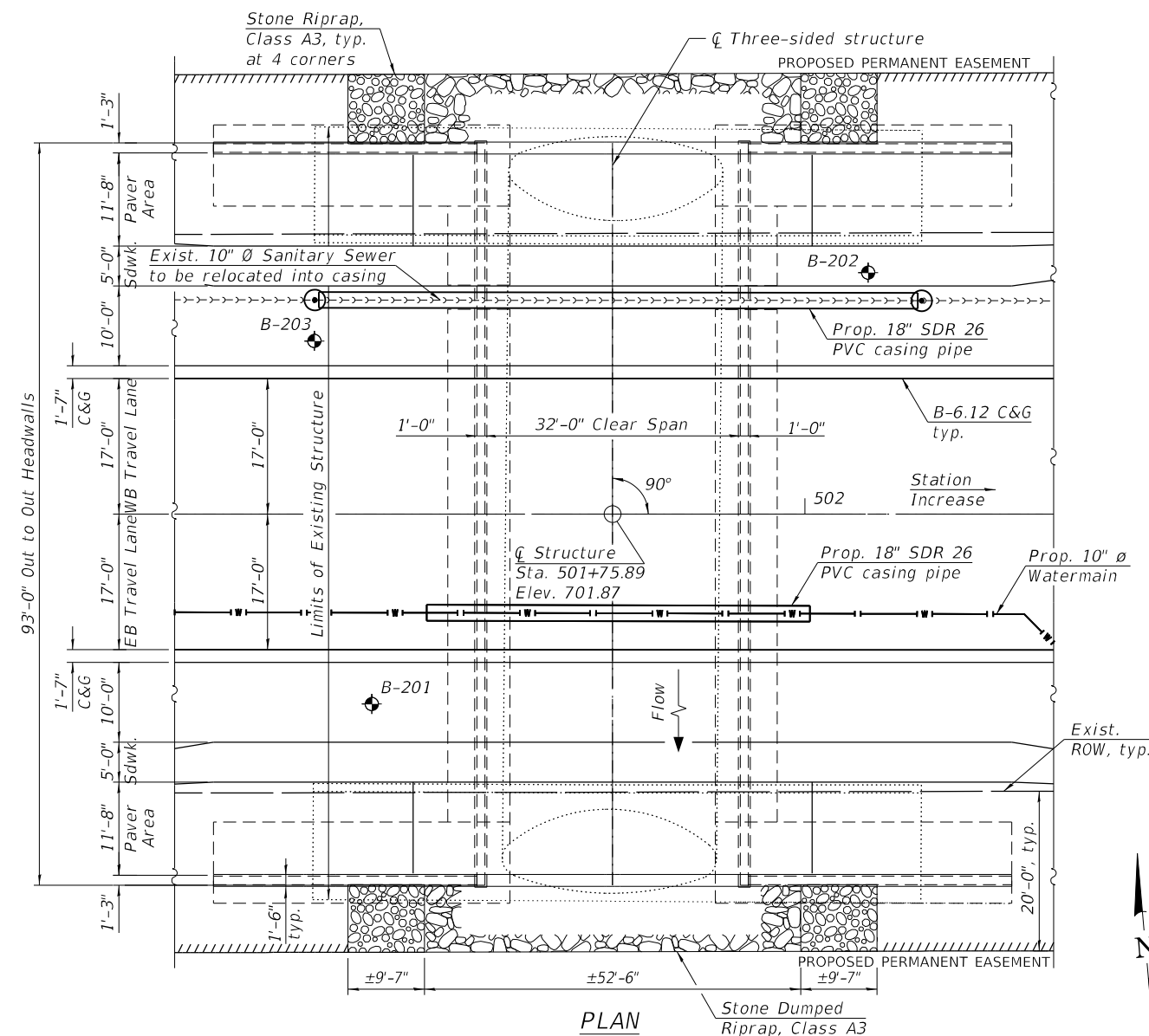
Road to be closed and traffic detoured during construction.

No Salvage.



SECTION THRU STRUCTURE

* Wall thickness and shape may vary as per manufacturer's design.



PLAN

LEGEND:

- Soil Boring
- Stone Riprap, Class A3
- Stone Dumped Riprap, Class A3

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.
Min. design fill height = 1.8 ft

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS
 $f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Fabric)

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

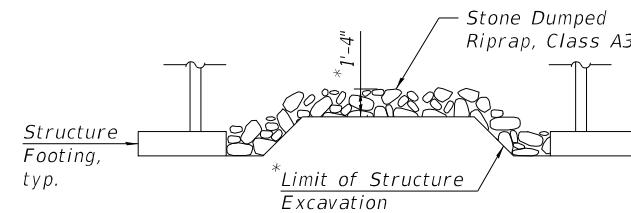
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.068g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.127g
 Soil Site Class = C

LAKE COSMAN
 BUILT 20__ BY
 ELK GROVE VILLAGE
 SEC. 19-00070-00-BR
 MS 2080 STA. 501+75.89
 STR. NO. 016-7865
 HL-93 LOADING

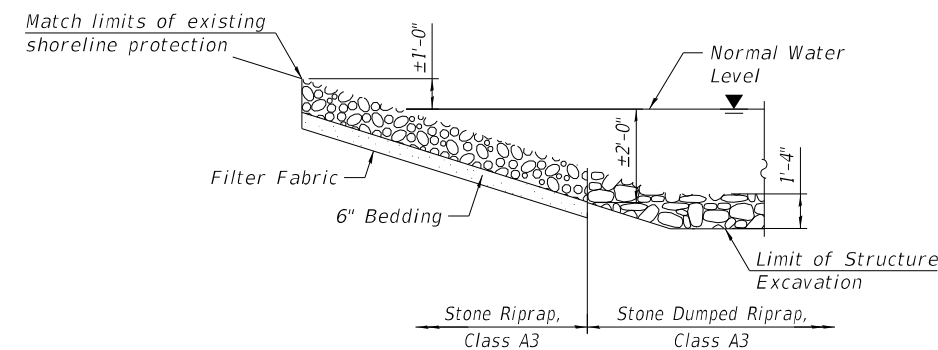
NAME PLATE

See Std. 515001



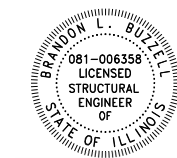
RIPRAP DETAIL WITHIN THREE-SIDED PRECAST STRUCTURE

* Riprap between footings shall not be placed at an elevation higher than the existing lake bottom. Additional excavation necessary to meet this requirement shall be included with the cost of Stone Dumped Riprap, Class A3.

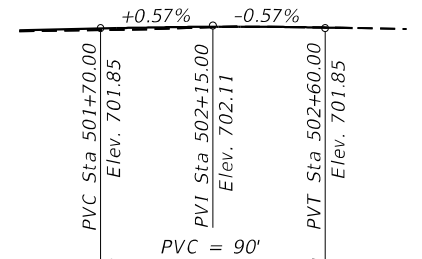


RIPRAP DETAIL OUTSIDE THREE-SIDED PRECAST STRUCTURE

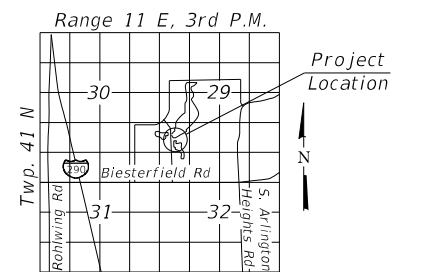
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current AASHTO Standard Specifications for Highway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



DATE: 07/29/2024
 LICENSE EXPIRES 11/30/2026



PROFILE GRADE Along \bar{C} Wellington Ave



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 0.06 Sq. Mi. Exist. Overtopping Elev. 701.68 @ Sta. 501+75.89
 Prop. Overtopping Elev. 701.84 @ Sta. 501+75.89

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10								
Base	30								
Overtopping	100	N/A	55.7	81.4	N/A	0.00	0.00	698.50	698.50
Max. Calc.	500								

GENERAL PLAN
 WELLINGTON AVENUE OVER LAKE COSMAN
 SEC. 19-00070-00-BR
 COOK COUNTY
 STATION 501+75.89
 STRUCTURE NO. 016-7865

MODEL: Default
 FILE NAME: P:\ELKGRV181136-Lake Cosman Bridges\CAD\Sheets\Phase II\Structural\181136-Wellington-SHT-501-GPE.dgn

BAXTER & WOODMAN
 Consulting Engineers

USER NAME - mvandervelden	DESIGNED - EBK	REVISED -
PLOT SCALE - 0:1.0000 = 1/8" = 1 in.	DRAWN - EBK	REVISED -
PLOT DATE - 7/29/2024	CHECKED - BLB	REVISED -
	DATE - 7/29/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
 STRUCTURE NO. 016-7865

SHEET 52-01 OF 52-08 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2080	19-00070-00-BR	COOK	59	35
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

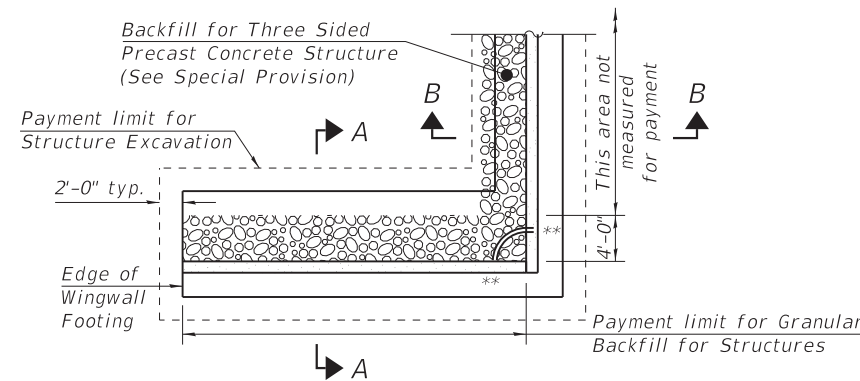
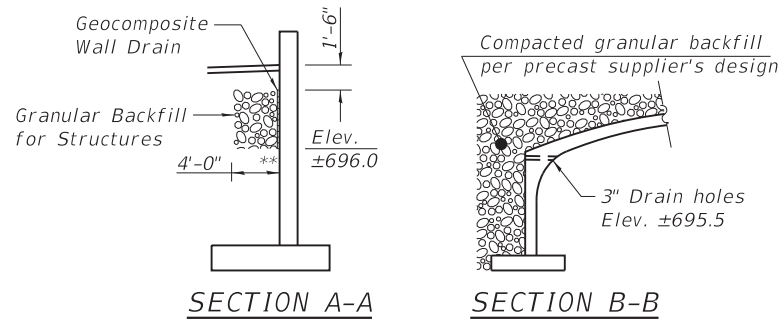
1. Work on the Wellington Avenue structure shall not begin until the Leicester Road structure is completed and re-opened to vehicular and pedestrian traffic.
2. Removal of the existing bridge railings, sloped concrete headwalls and gablon baskets shall be included with the cost of Removal of Existing Structures.
3. The finished three-sided structure shall conform to the geometry shown on the plans, including the arch shape shown and the overall geometry shown, and the arch shape shall be carried through the entire interior of the structure.
4. Maximum applied service bearing pressure, $Q_{max} = 3,000$ PSF.
5. The foundation design is based on the following maximum unfactored reactions applied at the top of the footing: $V_{max} = 20.9$ k/ft, $H_{max} = 3.2$ k/ft. The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete foundation design with calculations, details and the required seals shall be submitted for review and approval.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. All excavation necessary to construct the proposed footing at the depths shown shall be paid for as Cofferdam Excavation and measured for payment in accordance with Article 502.12. All dewatering necessary to construct the proposed footings shall be included in the cost of Cofferdam (Type 2) (Location - 2).
8. See Special Provision for Three-Sided Precast Concrete Structures for design and construction requirements.
9. Cast-in-place footings for three-sided structure and wingwalls will be paid for as Concrete Structures. Cast-in-place wingwalls and headwalls will be paid for as Concrete Structures (Retaining Wall). Precast substitution for footings, wingwalls and headwalls will not be allowed.
10. Contractor is responsible for coordinating with the precast supplier to provide any joints or block-outs necessary to accommodate the proposed sanitary sewer. Cost included with Three-Sided Precast Concrete Structures.
11. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
12. Anti-Graffiti Coating shall be applied to all exposed concrete surfaces above the proposed finished grade, excluding the interior of the precast arch structure.

INDEX OF SHEETS

- S2-01 General Plan
- S2-02 General Notes, Index of Sheets & Total Bill of Material
- S2-03 Footing Plan
- S2-04 Wingwall Details
- S2-05 Architectural Details
- S2-06 Soil Boring Logs (Sheet 1 of 3)
- S2-07 Soil Boring Logs (Sheet 2 of 3)
- S2-08 Soil Boring Logs (Sheet 3 of 3)

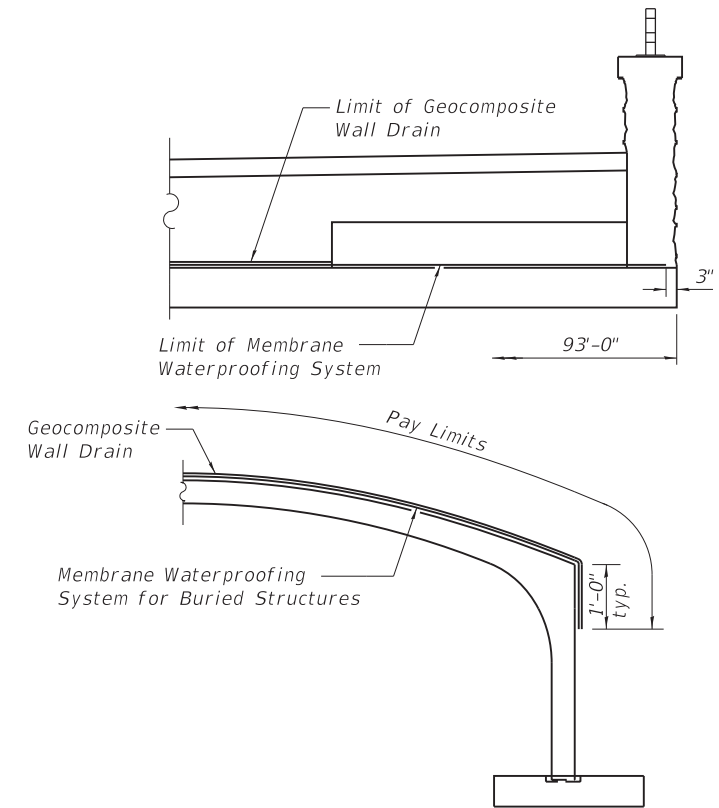
TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	SUPER	SUB	TOTAL QUANTITY
Stone Riprap, Class A3	SQ YD		39	39
Stone Dumped Riprap, Class A3	SQ YD		433	433
Filter Fabric	SQ YD		39	39
Removal Of Existing Structures No. 2	EACH		1	1
Structure Excavation	CU YD		2,572	2,572
Cofferdam (Type 2) (Location - 2)	EACH		1	1
Concrete Structures	CU YD		72.4	72.4
Form Liner Textured Surface	SQ FT		2,468	2,468
Reinforcement Bars	POUND		17,530	17,530
Reinforcement Bars, Epoxy Coated	POUND		27,190	27,190
Name Plates	EACH	1		1
Concrete Structures (Retaining Wall)	CU YD		234.5	234.5
Granular Backfill For Structures	CU YD		95.1	95.1
Geocomposite Wall Drain	SQ YD		334	334
Anti-Graffiti Coating	SQ FT		2,573	2,573
Membrane Waterproofing System For Buried Structures	SQ YD		381	381
Staining Concrete Structures	SQ FT		2,468	2,468
Parapet Railing (Special)	FOOT	200		200
Three-Sided Precast Concrete Structures 32' X 12'	FOOT	-	93	93



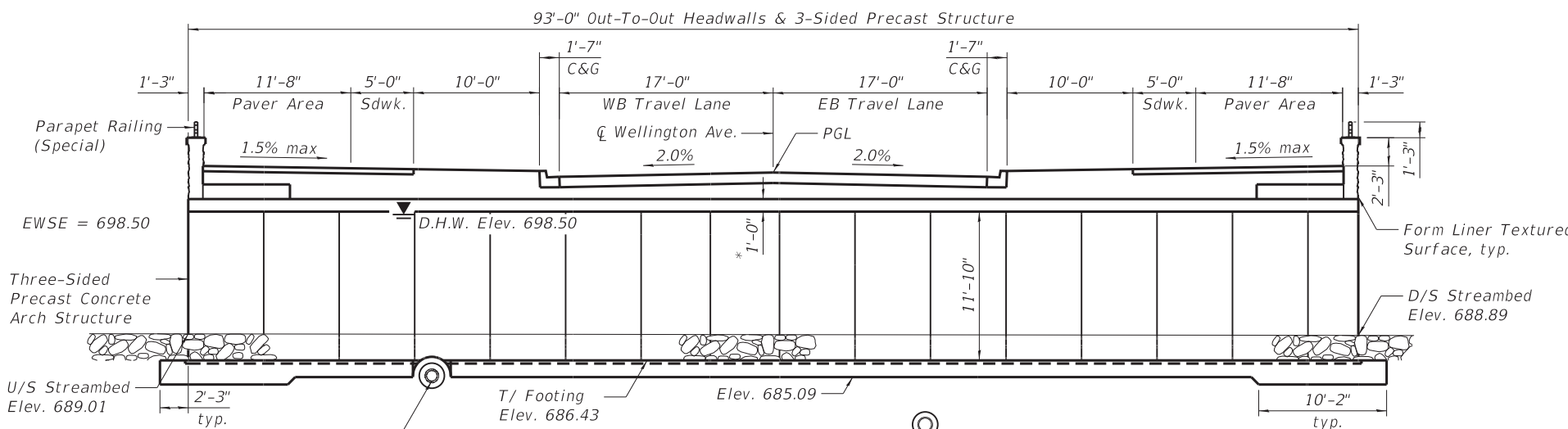
EXCAVATION, BACKFILL & DRAINAGE

** Connect outlet fitting from base of Geocomposite Wall Drain into nearest weephole in precast arch leg, typ. 4 wingwalls. Cost included with Geocomposite Wall Drain.



WATERPROOFING

Note: Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.



LONGITUDINAL SECTION
(Looking East)

* Wall thickness and shape may vary as per manufacture's design.

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	DATE - 9/11/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

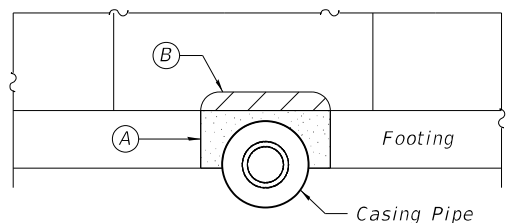
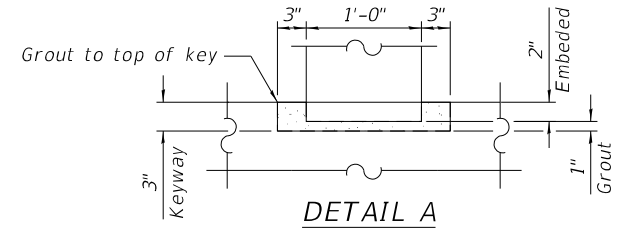
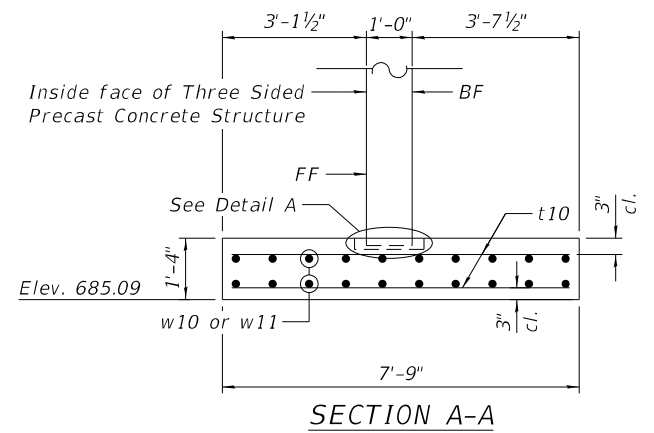
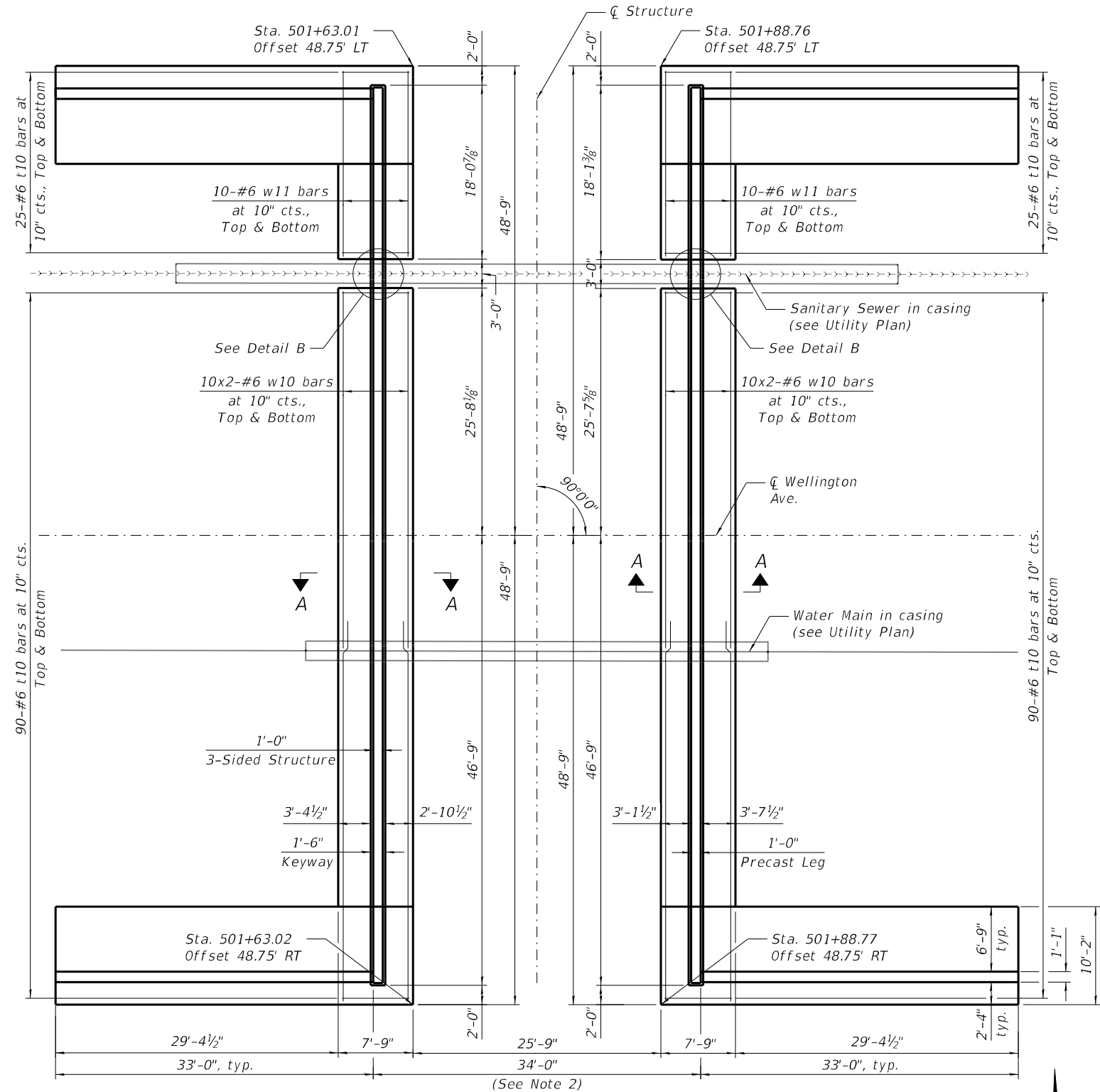
GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL
STRUCTURE NO. 016-7865

SHEET S2-02 OF S2-08 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2080	19-00070-00-BR	COOK	59	36
			CONTRACT NO. 61K21	
		ILLINOIS	FED. AID PROJECT	

NOTES:

1. Bars indicated thus 4x2 etc. indicates four lines of bars with two lengths per line.
2. Precast slab and wall thickness may vary according to manufacturer's design. Keyway dimensions shown are based on a 1'-0" wall thickness and shall be adjusted as necessary.
3. Footing Stations and Offsets are given relative to the centerline of Wellington avenue. See Roadway plan sheets.
4. For Wingwall details, see Sheet S2-04.



DETAIL B

- (A) Backfill area between casing and footing with CLSM meeting the requirements of Section 593. Cost included with Concrete Structures.
- (B) Fill cutout in precast structure leg with brick and mortar meeting the requirements of Section 602. Cost included with Three-Sided Precast Concrete Structures.

FOOTING PLAN

(Three-sided structure footing reinforcement shown. See Sheet S2-04 for additional reinforcement)

MIN. BAR LAP
#6 2'-7"

LEGEND:
FF Front Face
BF Back Face

MODEL: Default
FILE NAME: P:\ELKGR\181136-Lake Cosman Bridges\CAD\Sheets\Phase II\Structural\181136-Wellington-SHT-503-Footing Plan.dgn

BAXTER & WOODMAN Consulting Engineers	USER NAME - mvandervelden	DESIGNED - EBK	REVISED -
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	PLOT DATE - 7/29/2024	CHECKED - BLB	REVISED -
		DATE - 7/29/2024	REVISED -

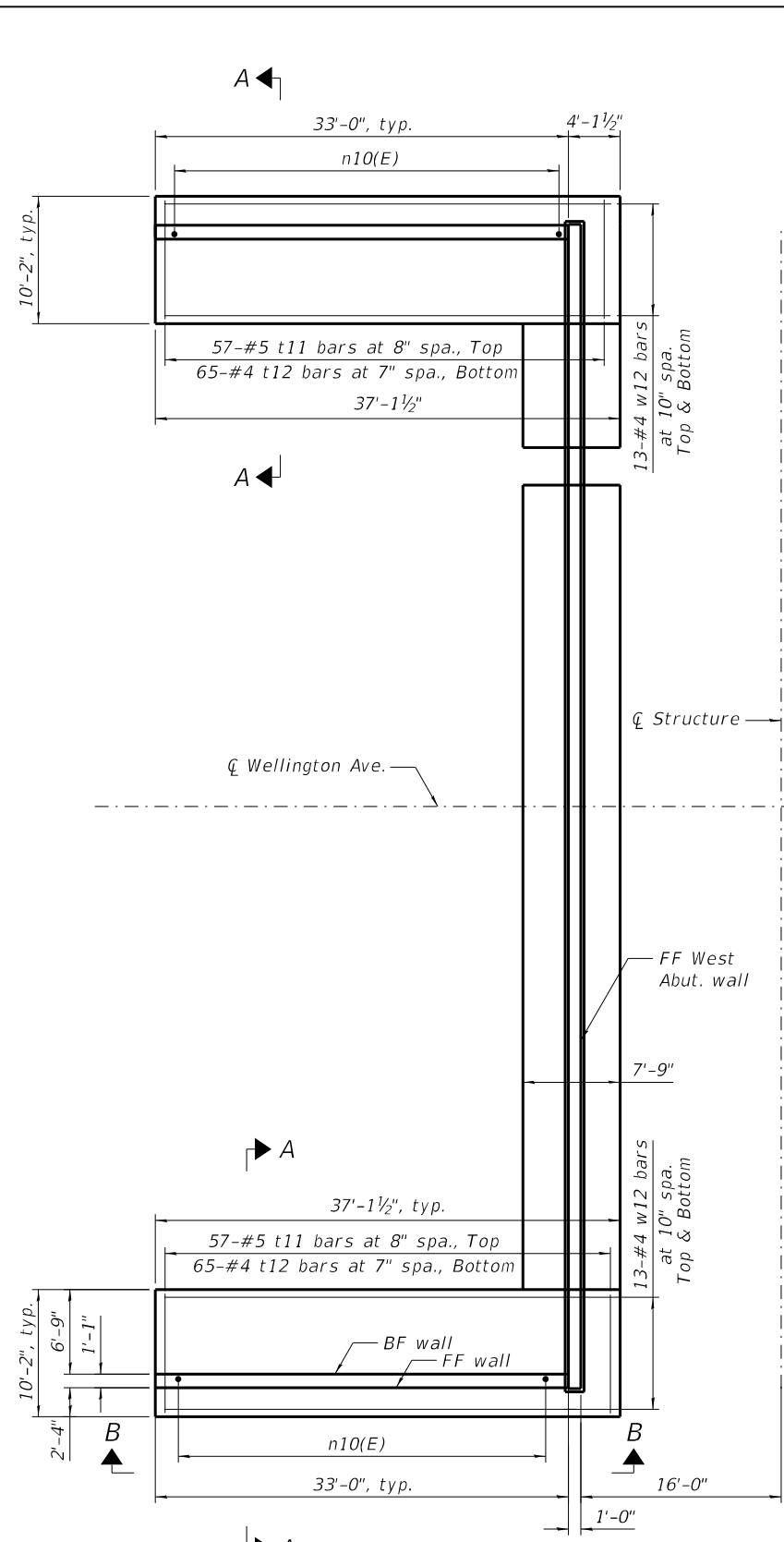
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FOOTING PLAN
STRUCTURE NO. 016-7865**

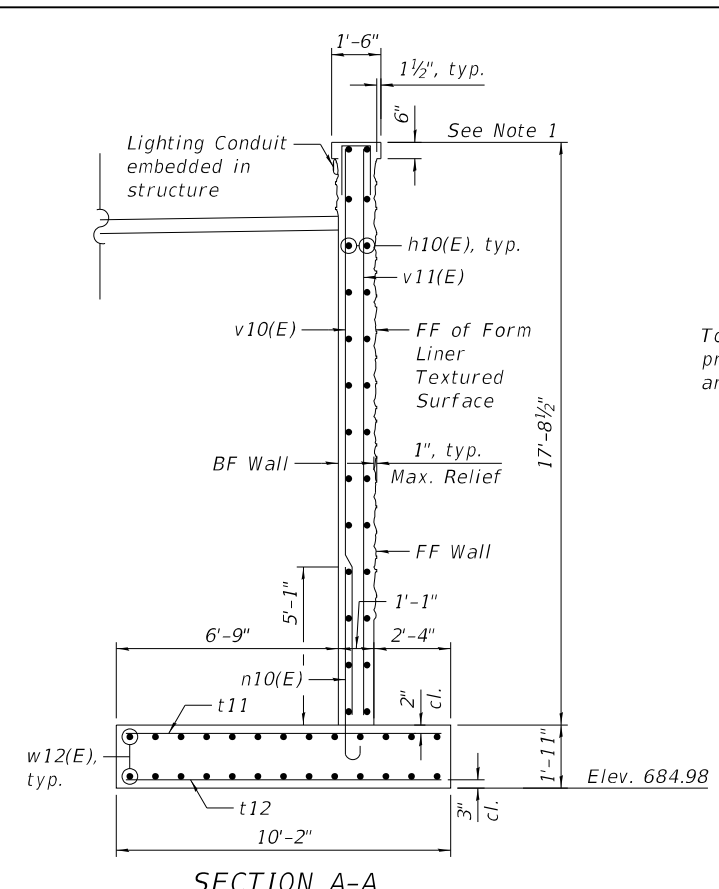
SHEET S2-03 OF S2-08 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K21				
ILLINOIS		FED. AID PROJECT		

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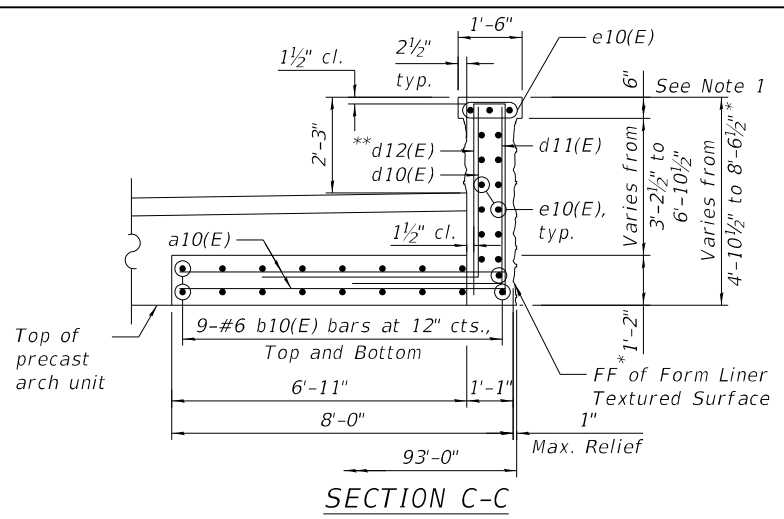


PARTIAL PLAN
 (West wingwalls shown, East wingwalls similar and opposite)
 (Wingwall footing reinforcement shown. See Sheet S2-03 for additional reinforcement)

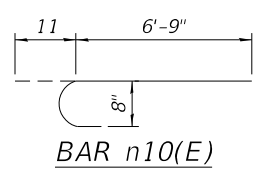
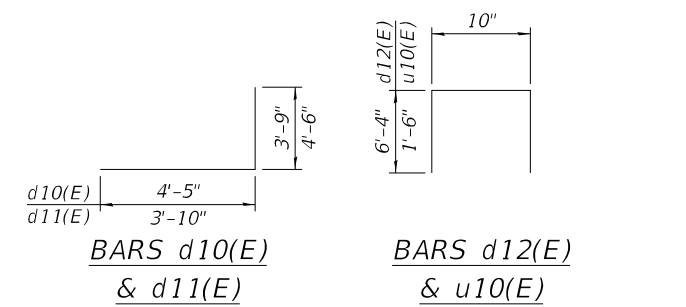


SECTION A-A

Note 1:
 Height of headwall shall be adjusted as necessary to match top of wingwall elevation, based on the actual dimensions of the precast arch unit provided by the supplier. Any proposed adjustments to the dimensions shown shall be submitted to the Engineer for approval prior to beginning wall construction.

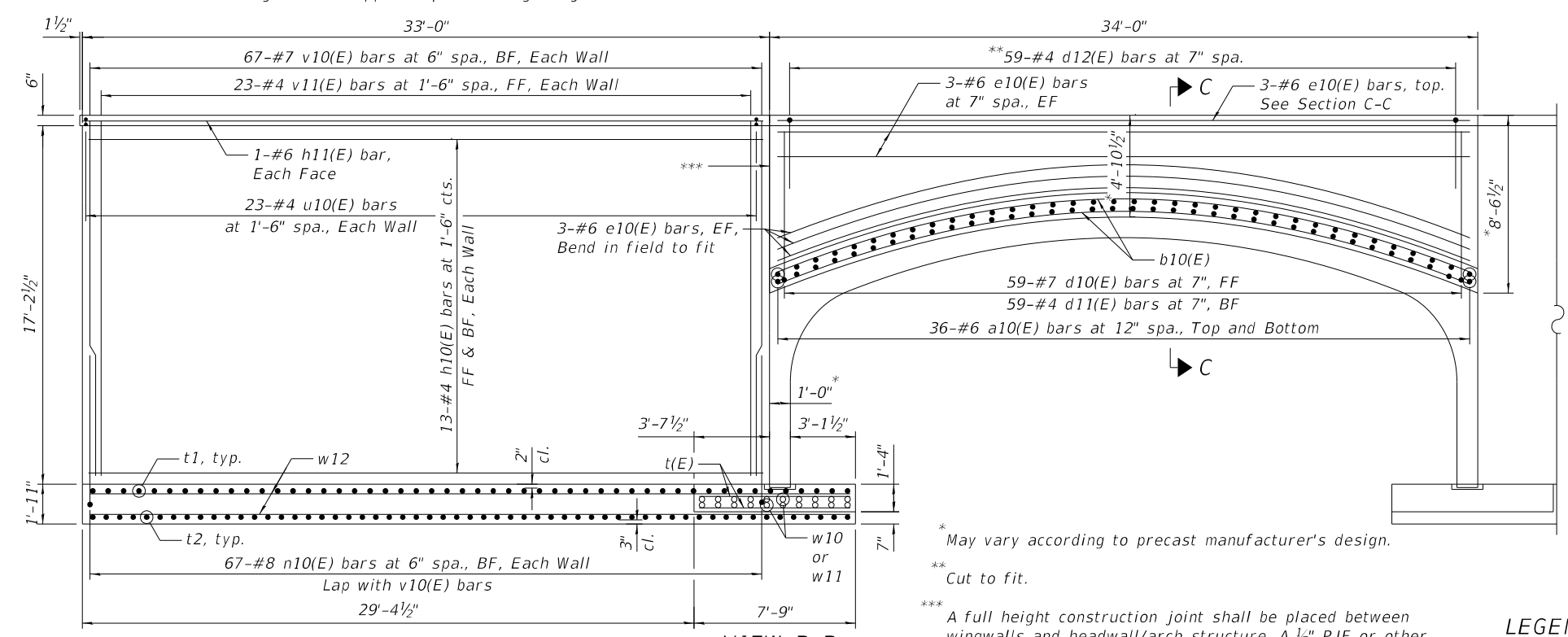


SECTION C-C



BAR n10(E)

MIN. LAP
 #4 = 2'-7"



VIEW B-B

(Northwest wingwall shown, other wingwalls similar and opposite)

* May vary according to precast manufacturer's design.
 ** Cut to fit.
 *** A full height construction joint shall be placed between wingwalls and headwall/arch structure. A 1/2" PJF or other suitable joint material shall be placed along the full height of the joint, and recessed or cut back to minimize visibility. Cost included with Concrete Structures (Retaining Wall).

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a10(E)	144	#6	7'-8"	—
b10(E)	36	#6	34'-8"	—
d10(E)	118	#7	8'-2"	—
d11(E)	118	#4	8'-4"	—
d12(E)	118	#4	7'-2"	—
e10(E)	30	#6	33'-8"	—
h10(E)	104	#4	32'-8"	—
h11(E)	8	#6	32'-9"	—
n10(E)	268	#8	7'-8"	—
t10	460	#6	7'-5"	—
t11	228	#5	9'-10"	—
t12	260	#4	9'-10"	—
u10(E)	92	#4	3'-10"	—
v10(E)	268	#7	17'-4"	—
v11(E)	92	#4	17'-4"	—
w10	80	#6	38'-4"	—
w11	40	#6	19'-9"	—
w12	104	#4	36'-10"	—
Concrete Structures			Cu. Yd.	72.4
Form Liner Textured Surface			Sq. Ft.	2,468
Reinforcement Bars			Pound	17,530
Reinforcement Bars, Epoxy Coated			Pound	27,190
Concrete Structures (Retaining Wall)			Cu. Yd.	234.5
Anti-Graffiti Coating			Sq. Ft.	2,573
Staining Concrete Structures			Sq. Ft.	2,468

LEGEND:

FF Front Face
 BF Back Face
 EF Each Face



USER NAME	mvandervelden	DESIGNED	EBK	REVISED	-
DRAWN	EBK	REVISIONS	-	REVISIONS	-
PLOT SCALE	0:1" = 1'-0"	CHECKED	BLB	REVISIONS	-
PLOT DATE	7/29/2024	DATE	7/29/2024	REVISIONS	-

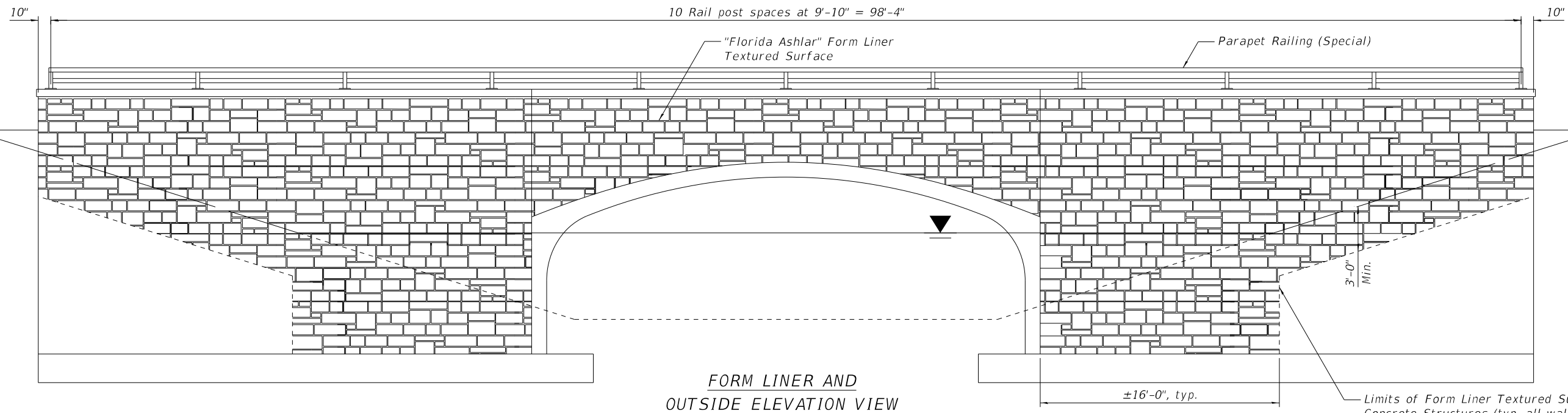
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WINGWALLS DETAILS
 STRUCTURE NO. 016-7865**

SHEET S2-04 OF S2-08 SHEETS

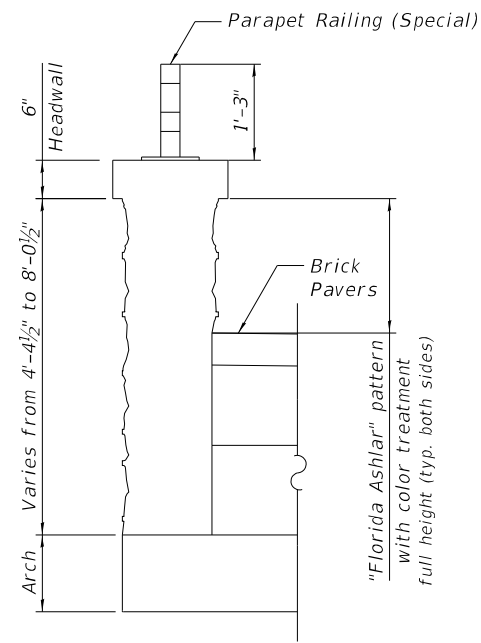
MUN. ST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2080	19-0070-00-BR	COOK	59	38
CONTRACT NO. 61K21				

ILLINOIS FED. AID PROJECT

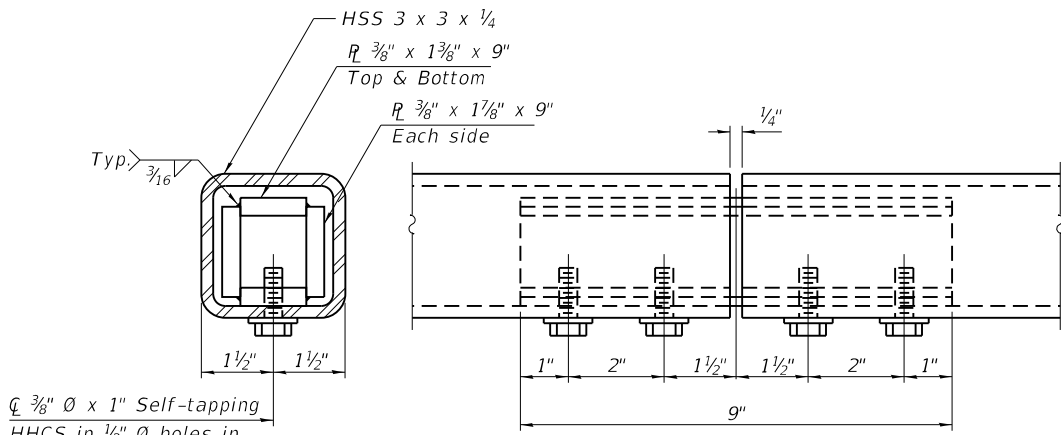


FORM LINER AND
OUTSIDE ELEVATION VIEW

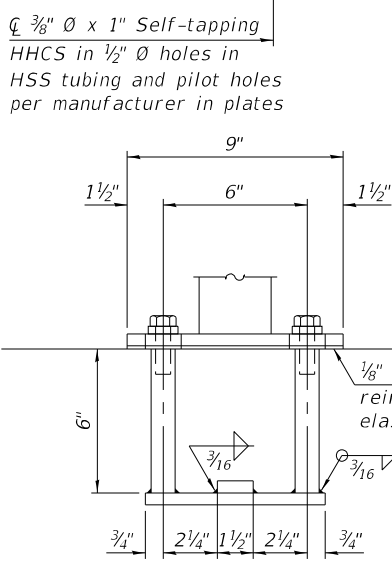
Limits of Form Liner Textured Surface and Staining Concrete Structures (typ. all walls). No payment will be made beyond the limits shown.



FORM LINER DETAILS
Form liner pattern, texture and color treatment shall be continuous around the perimeter of headwalls and wingwalls.

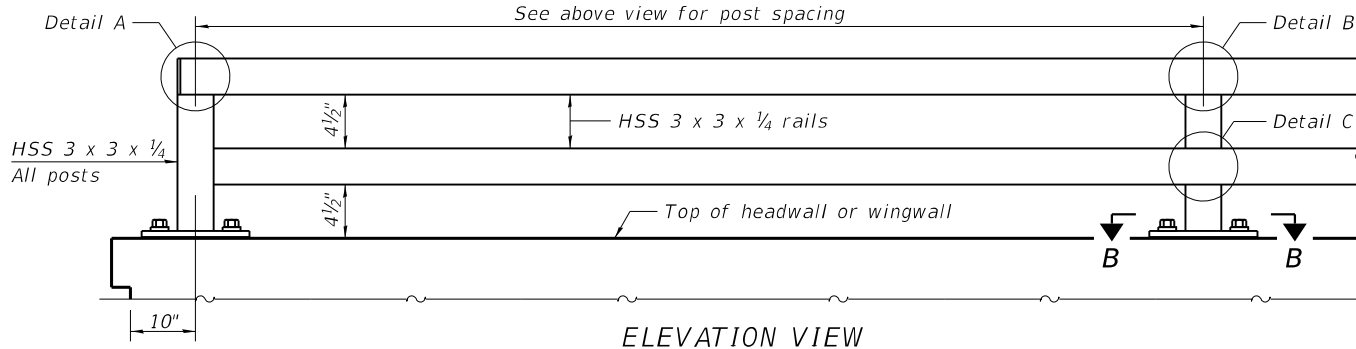


MATERIAL SPLICE

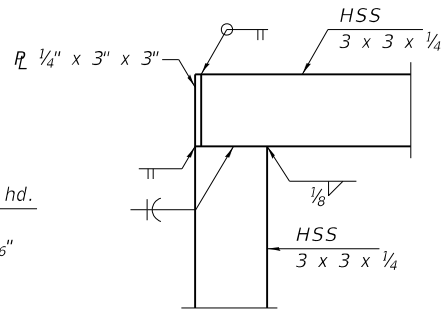


ANCHORAGE ASSEMBLY

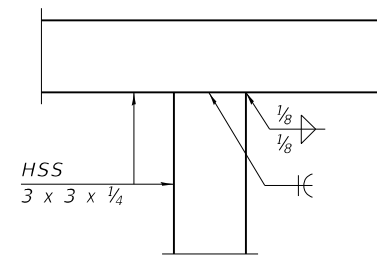
The Bridge Fence Railing Fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates.
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 3/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



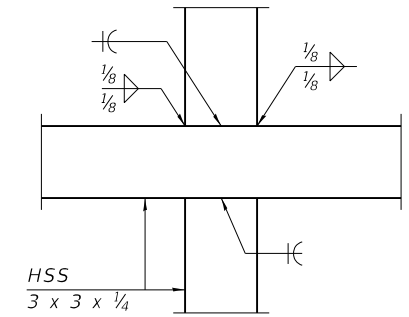
ELEVATION VIEW



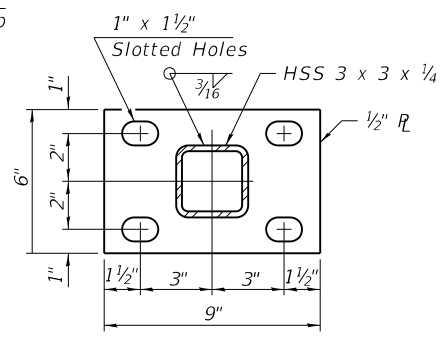
DETAIL A



DETAIL B



DETAIL C



SECTION B-B

Notes:
Place reinforcement bars to miss anchor rod locations.
All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
All HSS tubing used for the Parapet Railing shall be ASTM A500 grade C.
All base plates used for the Parapet Railing shall be AASHTO M270 grade 50.
All heavy hex nuts shall be according to ASTM A 563 grade DH.
All fully threaded anchor rods shall be ASTM F1554 grade 105.
The post base plate shall be fastened to the curb snug tight and given an additional 1/8 turn.
Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
All posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the Special Provisions. Final color shall be matte black.

MODEL: Default
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PLOT DATE - 7/29/2024	CHECKED - BLB	REVISED -
	DATE - 7/29/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL DETAILS
STRUCTURE NO. 016-7865

SHEET 52-05 OF 52-08 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2080	19-00070-00-BR	COOK	59	39
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				

File No. 25146 **BORING LOG** B-201Client Baxter & Woodman, Inc. Sheet 1 of 2Comments _____ Project Lake Cosman Culvert Replacements Date 4/9/20Wellington Avenue Culvert Replacement Location Elk Grove Village, IL Drilled By ACEquipment CME 45B H.A. Other Logged By CS

Elev., ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
100.8'	(a) see below		1	J						21.1		
							4					
							6					
	Brown clay, some silt, trace sand & gravel, damp, hard to stiff to very stiff - Fill		2	SS	18		6	12	3.5	19.0	111.6	4.1
							3					
							3					
			5	3	SS	18	3	6	2.25	20.5	110.1	1.8
							2					
							3					
			4	SS	18		5	8	3.25	21.4	104.9	2.9
							3					
							3					
	Gray clay, some silt, trace sand & gravel, damp, medium stiff - Fill		10	5	SS	18	3	6	1.25	24.7	96.8	0.7
							3					
							4					
	Brown/gray silt, some fine sand, trace clay & medium-coarse sand, damp, loose		6	SS	18		5	9		13.1		
							3					
							4					
	Gray silt, some sand & clay, trace gravel, damp, medium dense		15	7	SS	18	5	10		8.9		
							4					
							5					
	Gray clay, some silt, trace sand & gravel, damp, very stiff to stiff		8	SS	18		5	8	2.5	17.7	115.0	2.8
							3					
							3					
							4					
			20	9	SS	18	5	9	2.25	25.7	103.9	1.6

Water Level — depth, ft. elev., ft.
 - while drilling: 22.5 _____
 - after drilling: 12.0 _____
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b-1

File No. 25146 **BORING LOG** B-201Client Baxter & Woodman, Inc. Sheet 2 of 2Comments _____ Project Lake Cosman Culvert Replacements Date 4/9/20Wellington Avenue Culvert Replacement Location Elk Grove Village, IL Drilled By ACEquipment CME 45B H.A. Other Logged By CS

Elev., ft.	Description	Depth, ft.	20	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay, some silt, trace sand & gravel, damp, very stiff						4					
							5					
							8	13	2.5	16.2	106.2	3.2
	Gray medium-coarse sand, some gravel & fine sand, saturated		10	SS	18					15.2		
							5					
							8					
	Gray clay, some silt, trace sand and gravel, damp, hard		25	12	SS	18	12	20	4.5+	17.6	123.0	7.1
							9					
							11					
							14	25	4.5+	19.1	107.7	5.5
	Gray clay, some silt, trace sand and gravel, damp, stiff to very stiff						6					
							9					
			30	14	J	0	11	20		18.5		
							4					
							7					
							9	16	2.0	19.5	116.6	1.8
			35	15	SS	15						
							5					
							8					
	(a) Black silt, some clay, trace sand & gravel & roots, damp, (topsoil) - Fill -10"		40	16	SS	18	12	20	3.0	19.5	112.8	3.3

End of Boring

Water Level — depth, ft. elev., ft.
 - while drilling: 22.5 _____
 - after drilling: 12.0 _____
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b-2

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PLOT DATE - 7/29/2024	CHECKED - BLB	REVISED -
	DATE - 7/29/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATIONSOIL BORING LOG (SHEET 1 OF 3)
STRUCTURE NO. 016-7865

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2080	19-00070-00-BR	COOK	59	40
CONTRACT NO. 61K21				

SHEET 52-06 OF 52-08 SHEETS

ILLINOIS FED. AID PROJECT

7/29/2024 6:01:11 PM



File No. 25146 BORING LOG B-202

Client Baxter & Woodman, Inc. Sheet 1 of 2

Comments Wellington Avenue Culvert Replacement Project Lake Cosman Culvert Replacements Date 4/15/20

Location Elk Grove Village, IL Drilled By AC

Equipment [X]CME 45B []H.A. []Other Logged By CS

Table with columns: Elev., ft. 101.0', Description, Depth, ft., 0, S, T, R, B, N, Pen., W, Uw, Qu. Rows include soil descriptions like 'Brown/gray clay, some silt, trace sand & gravel, damp very stiff - Fill' and 'Brown clay, some silt, trace sand & gravel, very damp, stiff to very stiff to medium stiff to soft - Fill'.

Water Level — depth,ft. elev., ft. while drilling: 21.5 after drilling: 16.0 hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in. B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, % N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30" Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft. Qu - unconfined compressive strength, tons/sq. ft.

F-111b-1



File No. 25146 BORING LOG B-202

Client Baxter & Woodman, Inc. Sheet 2 of 2

Comments Wellington Avenue Culvert Replacement Project Lake Cosman Culvert Replacements Date 4/15/20

Location Elk Grove Village, IL Drilled By AC

Equipment [X]CME 45B []H.A. []Other Logged By CS

Table with columns: Elev., ft., Description, Depth, ft., 20, S, T, R, B, N, Pen., W, Uw, Qu. Rows include soil descriptions like 'Gray clay, some silt, trace sand & gravel, damp, very stiff' and '(a) Black silt, some clay, trace sand & roots, damp, (topsoil) - Fill'.

Water Level — depth,ft. elev., ft. while drilling: 21.5 after drilling: 16.0 hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in. B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, % N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30" Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft. Qu - unconfined compressive strength, tons/sq. ft.

F-111b-2

End of Boring

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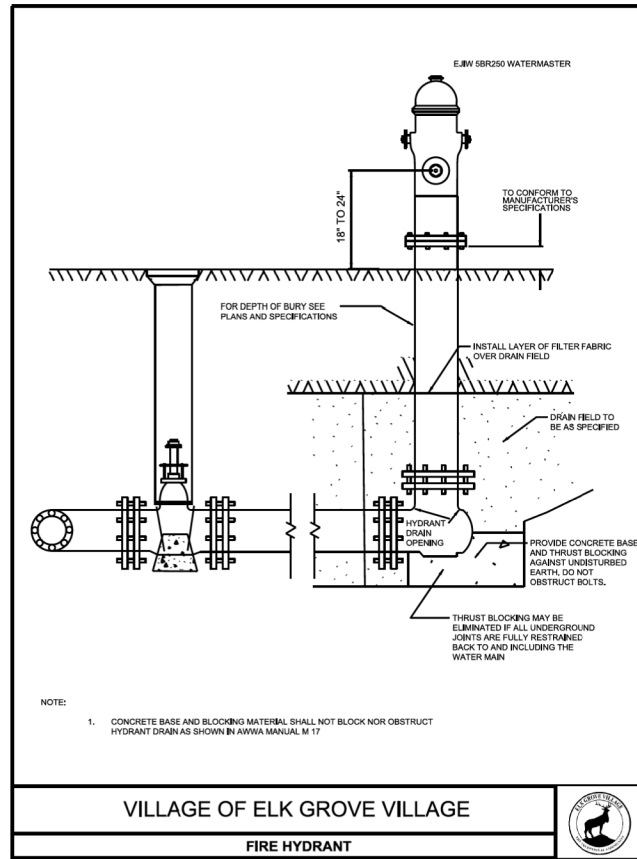
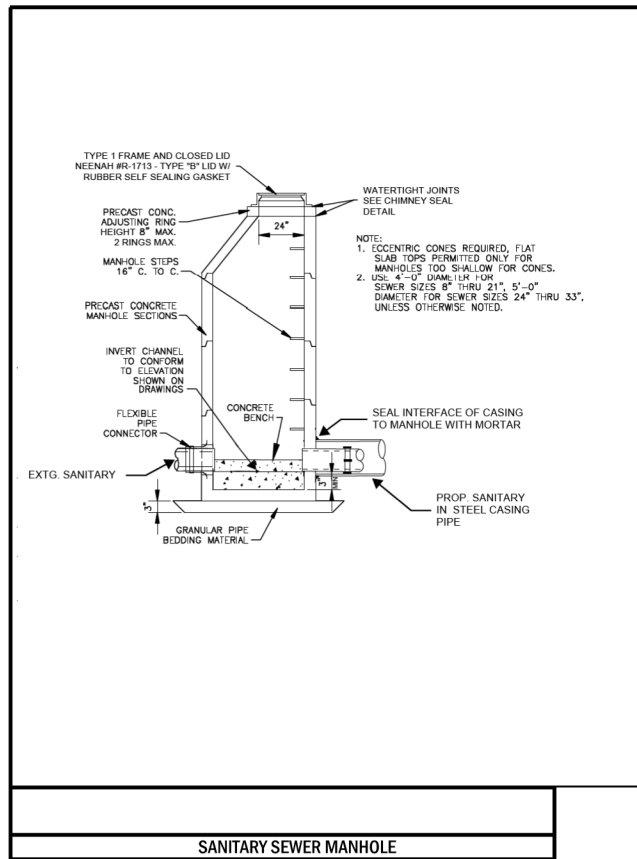
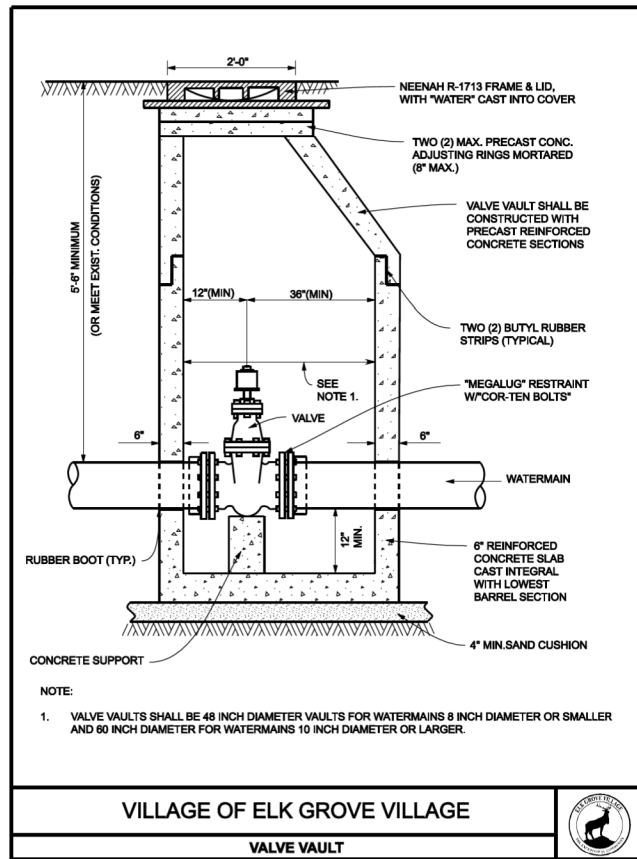
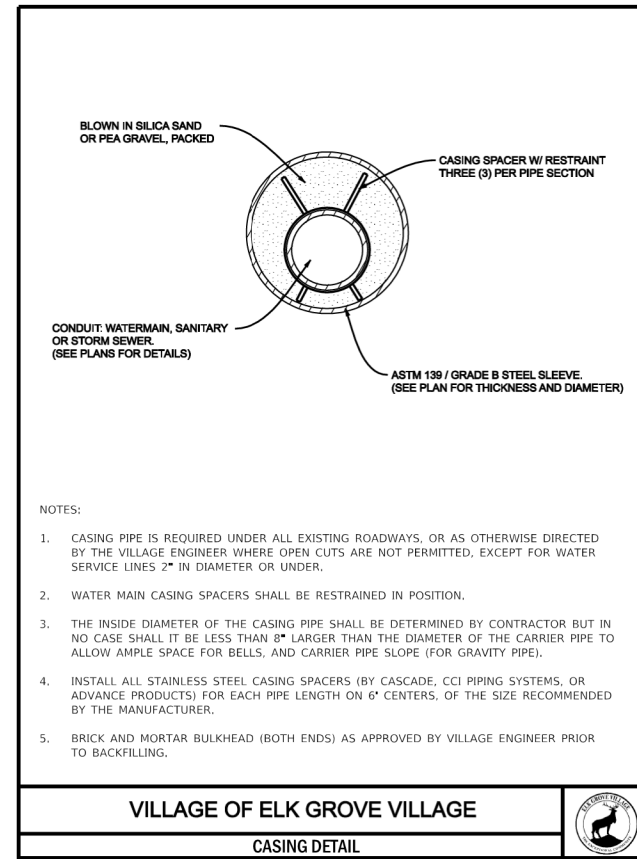
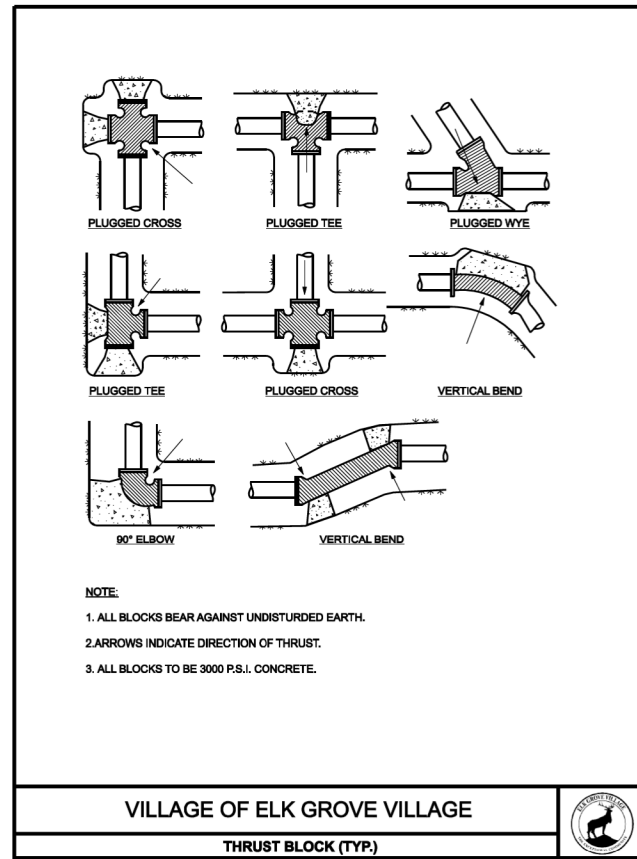
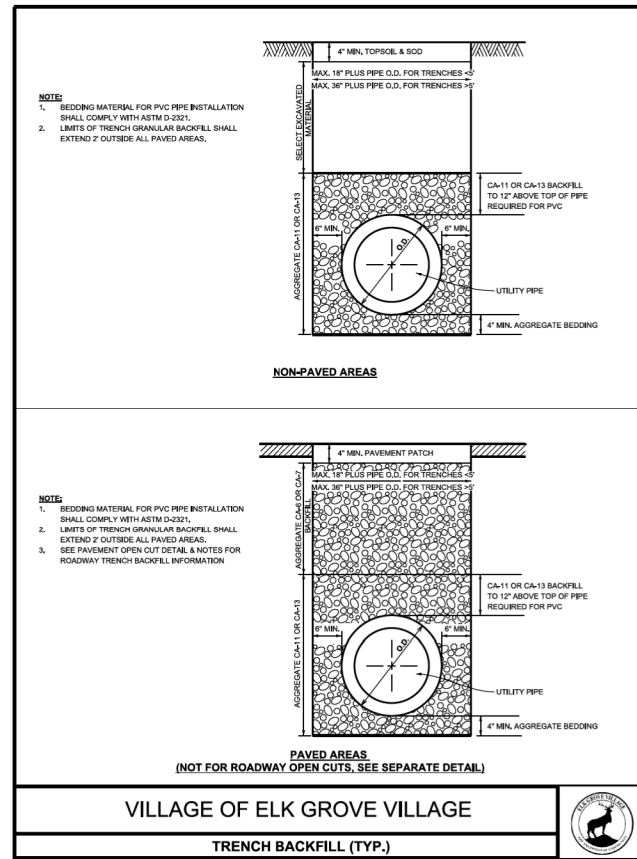
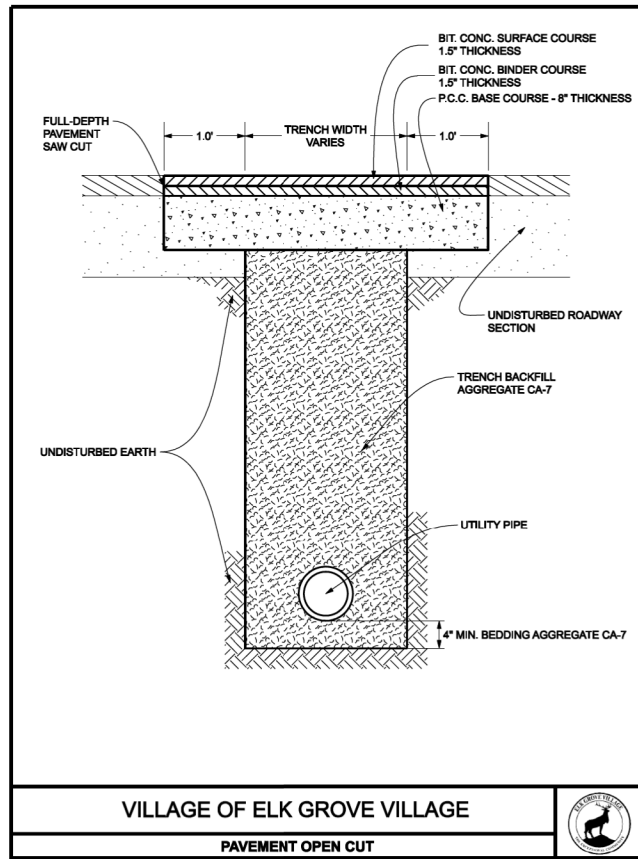


Table with columns: USER NAME, DESIGNED, DRAWN, CHECKED, PLOT DATE, REVISED, DATE.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG (SHEET 2 OF 3) STRUCTURE NO. 016-7865

Table with columns: MUN ST, SECTION, COUNTY, COOK, TOTAL SHEETS, SHEET NO., CONTRACT NO.



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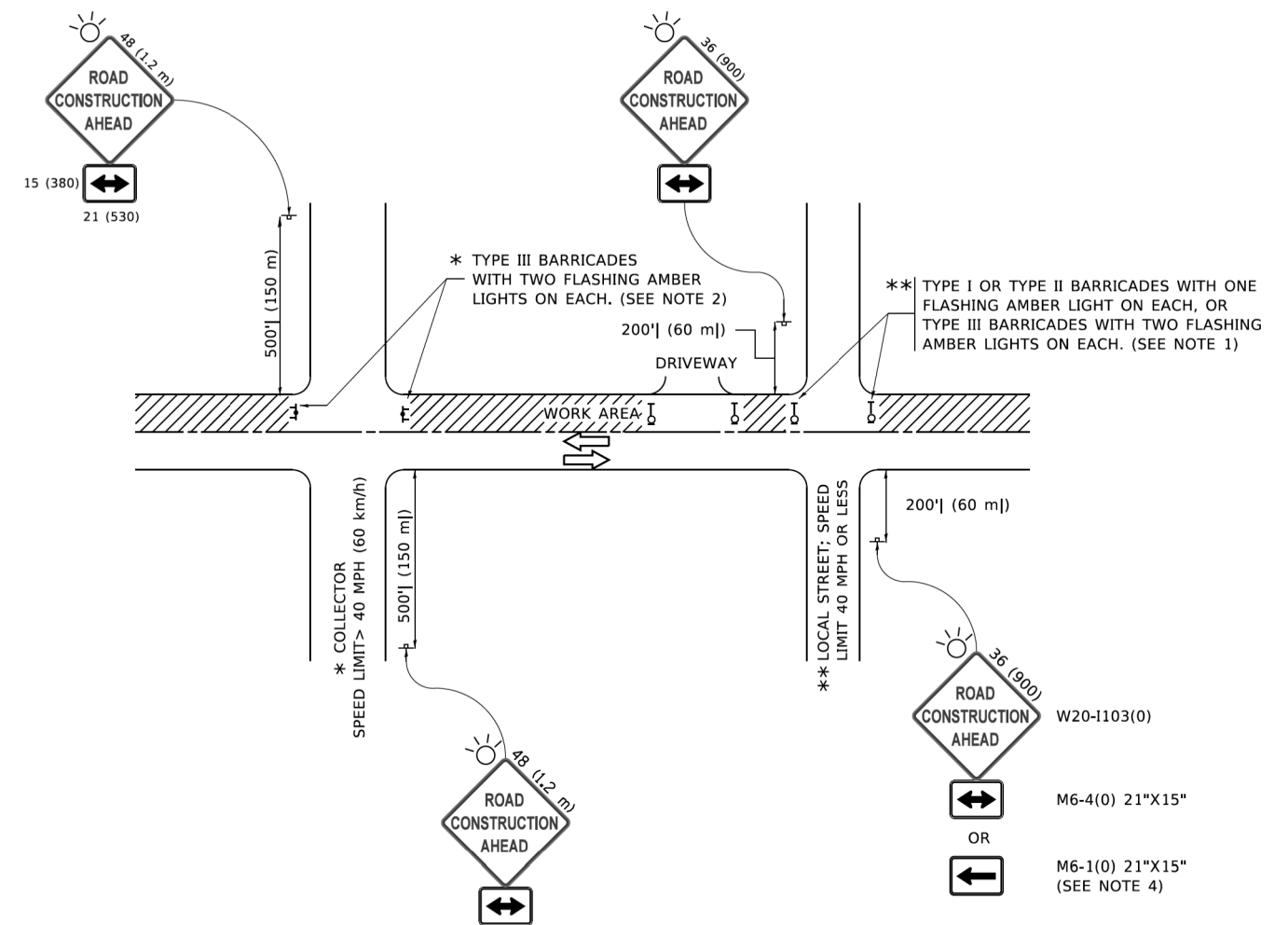
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DRAWN	KAR	REVISIONS	-	REVISIONS	-
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PLOT DATE	7/29/2024	DATE	7/29/2024	FILE	181136-SHT-WatSanDetails.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WATER MAIN AND SANITARY SEWER DETAILS

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002080	19-00070-00-BR	COOK	59	43
CONTRACT NO. 61K21				
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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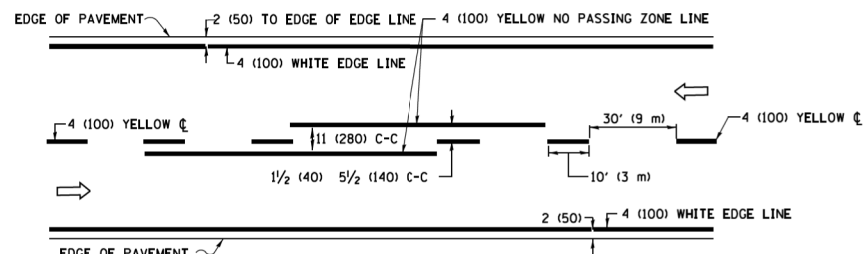
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

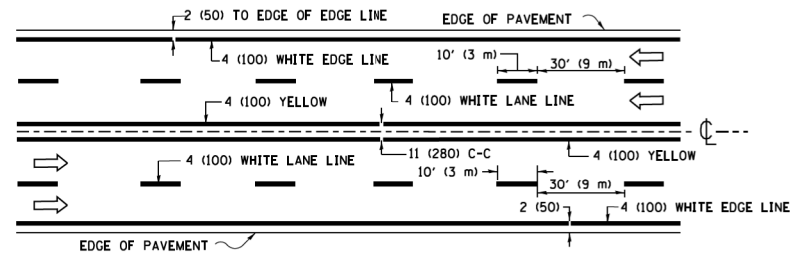
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

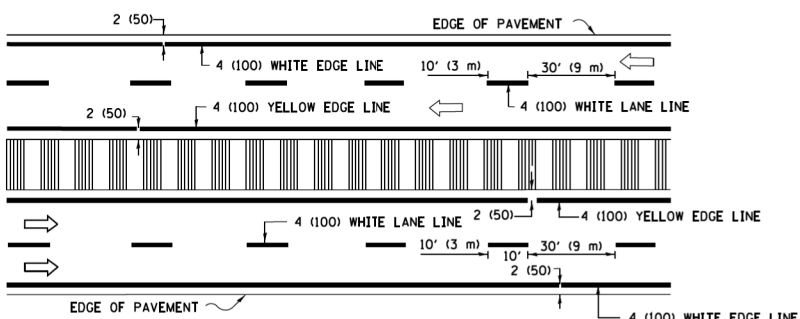
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21002000	19-00070-00-BR	COOK	59	44
TC-10		CONTRACT NO. 61K21		
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

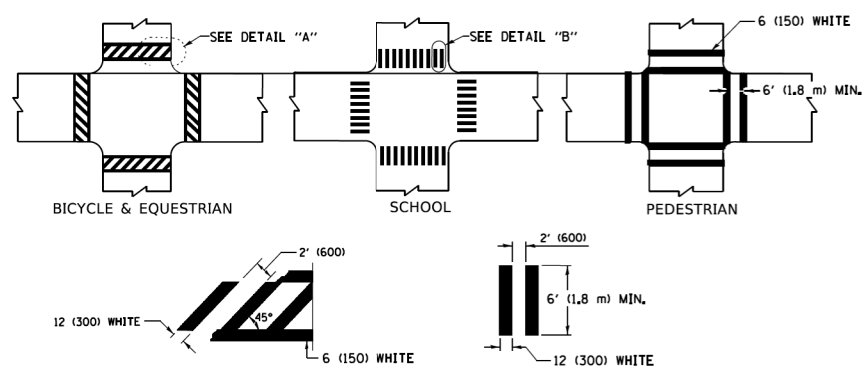


MULTI-LANE UNDIVIDED



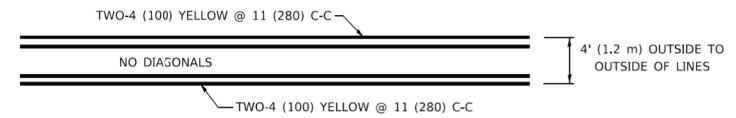
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

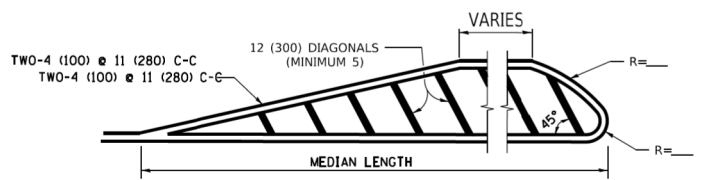


TYPICAL CROSSWALK MARKING

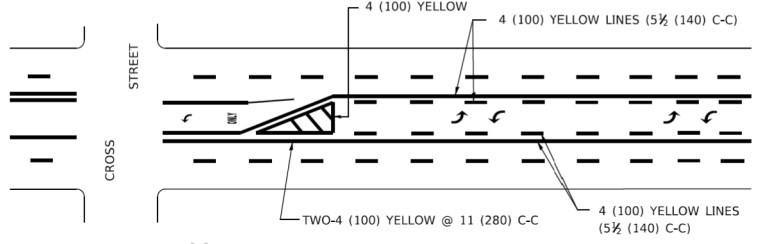
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



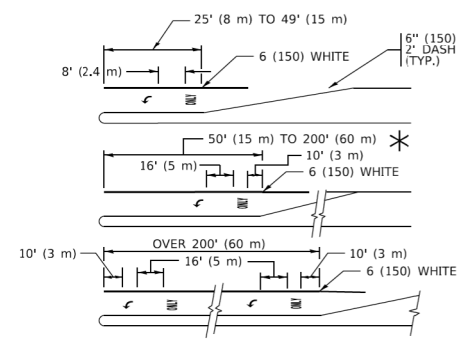
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



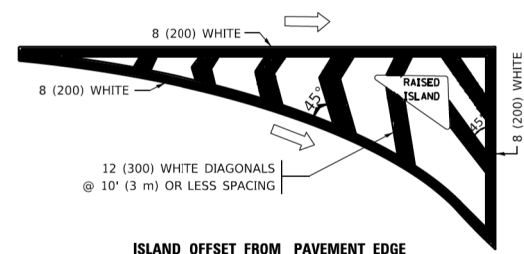
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



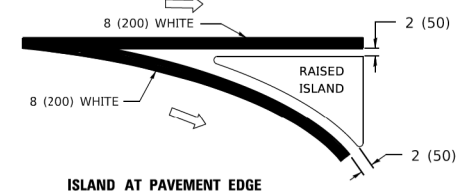
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

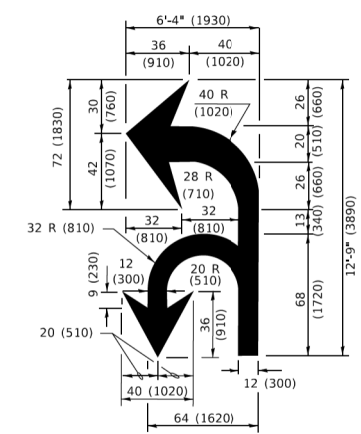
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



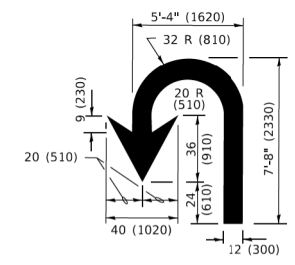
ISLAND OFFSET FROM PAVEMENT EDGE



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 (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15' 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ²) EACH *X*=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (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.

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PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 12-21-15
	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		210022000	19-00070-00-BR	COOK	59	45
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 61K21		
				ILLINOIS	FED. AID PROJECT	

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

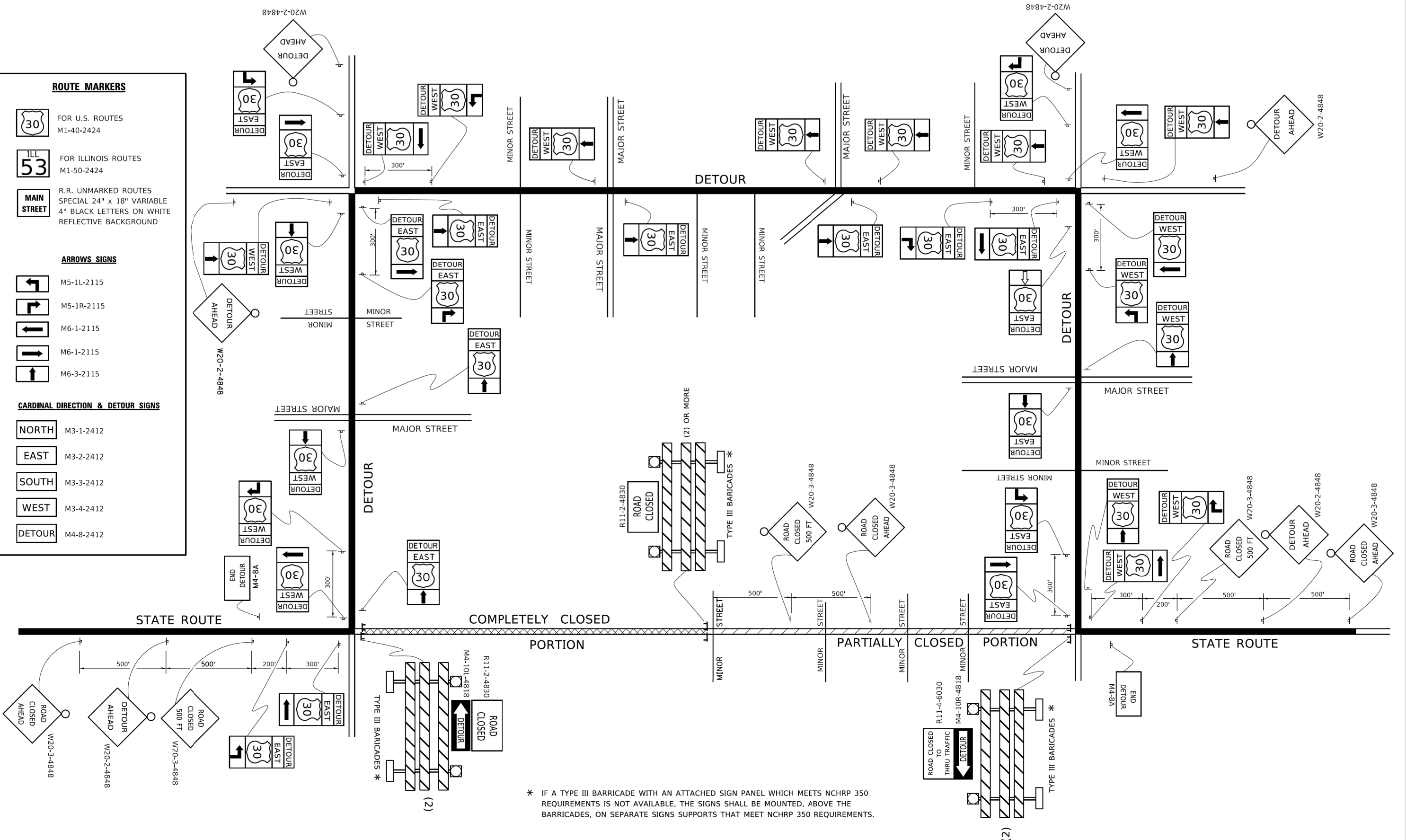
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

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BAXTER & WOODMAN
Consulting Engineers

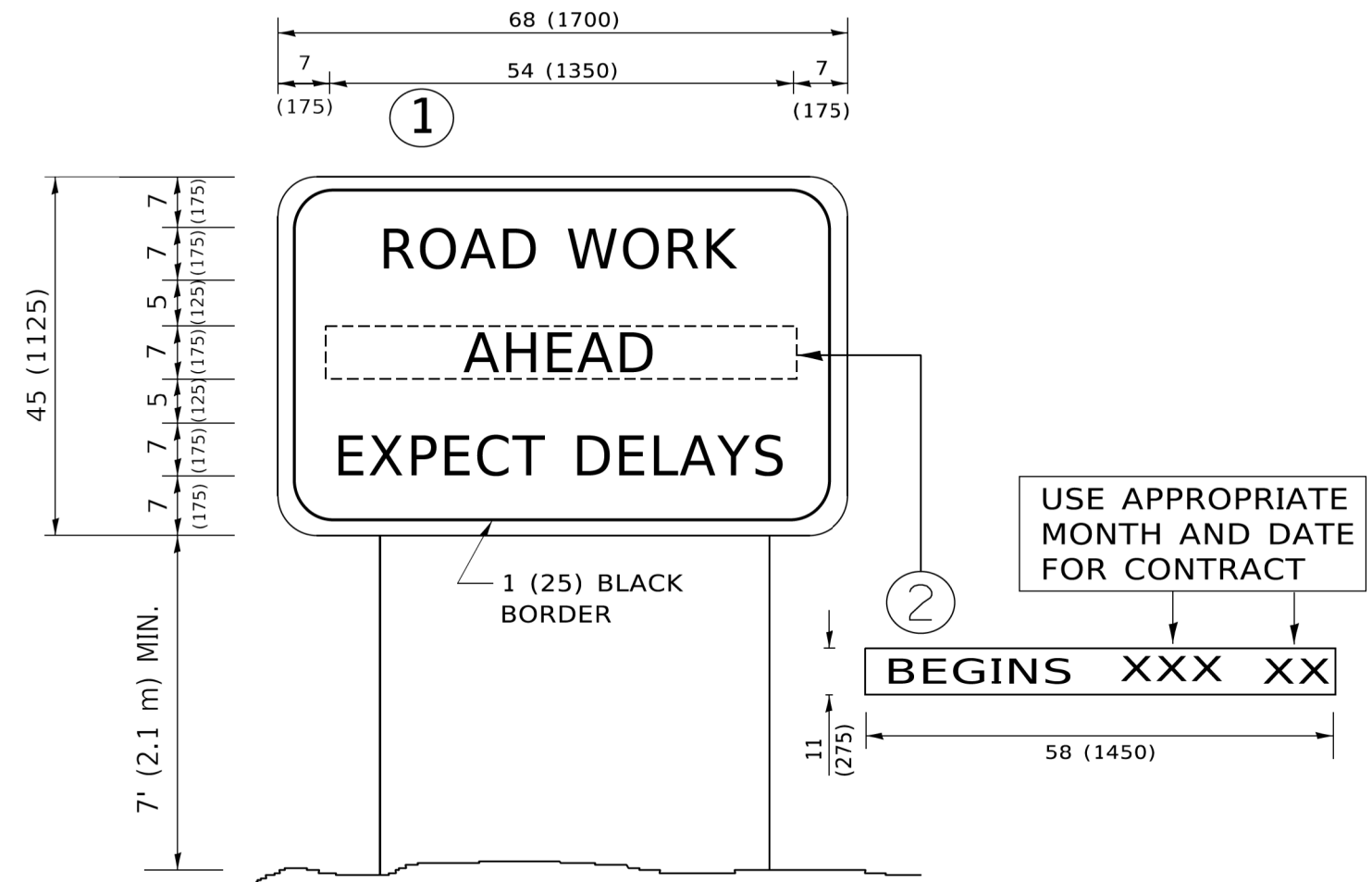
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PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS**

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

F.A. RTE. 21002000	SECTION 19-00070-00-BR	COUNTY COOK	TOTAL SHEETS 59	SHEET NO. 46
TC-21		CONTRACT NO. 61K21		
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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BAXTER & WOODMAN Consulting Engineers	USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

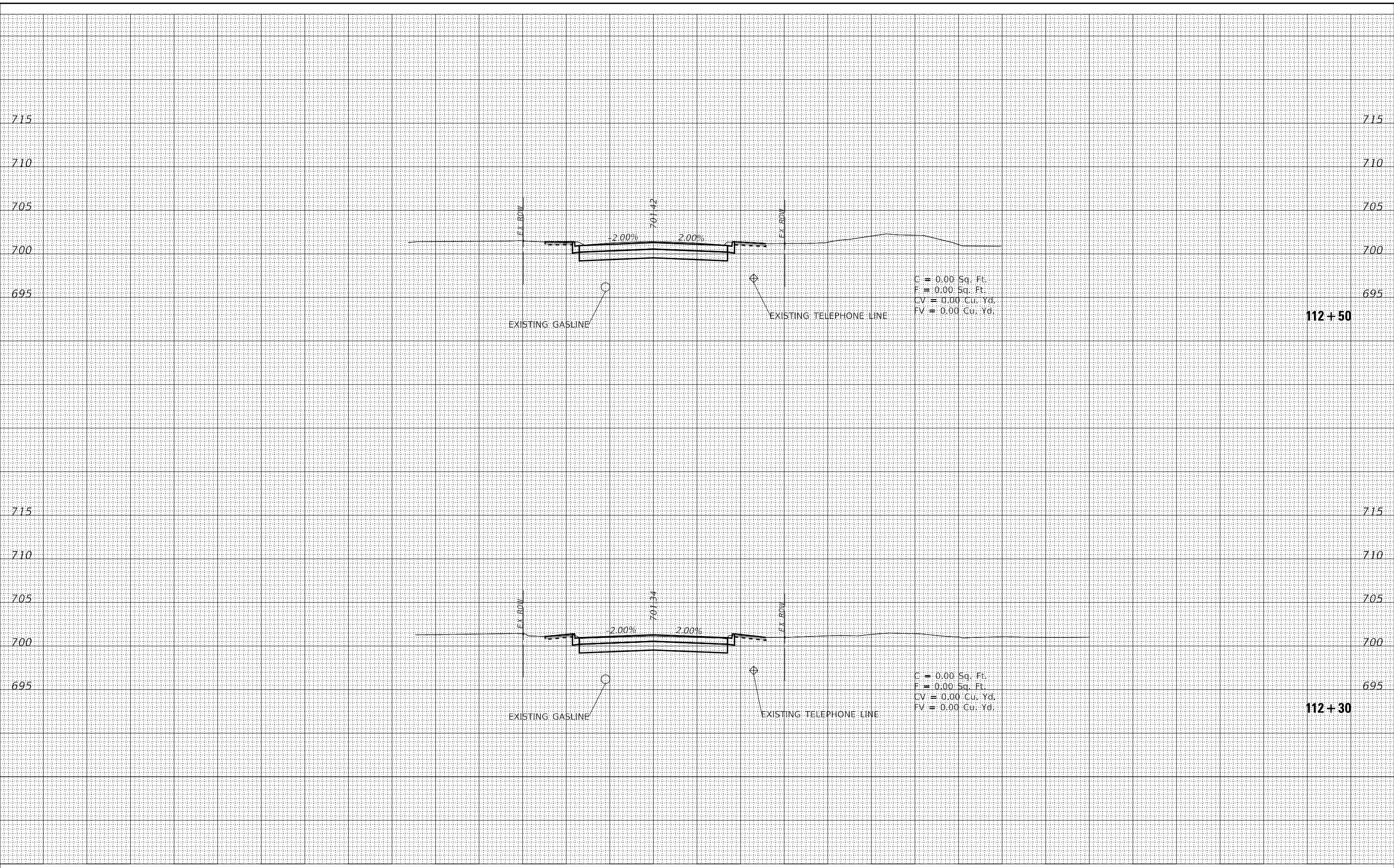
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21002000	19-00070-00-BR	COOK	59	47
TC-22		CONTRACT NO. 61K21		
ILLINOIS FED. AID PROJECT				

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DRAWN -	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

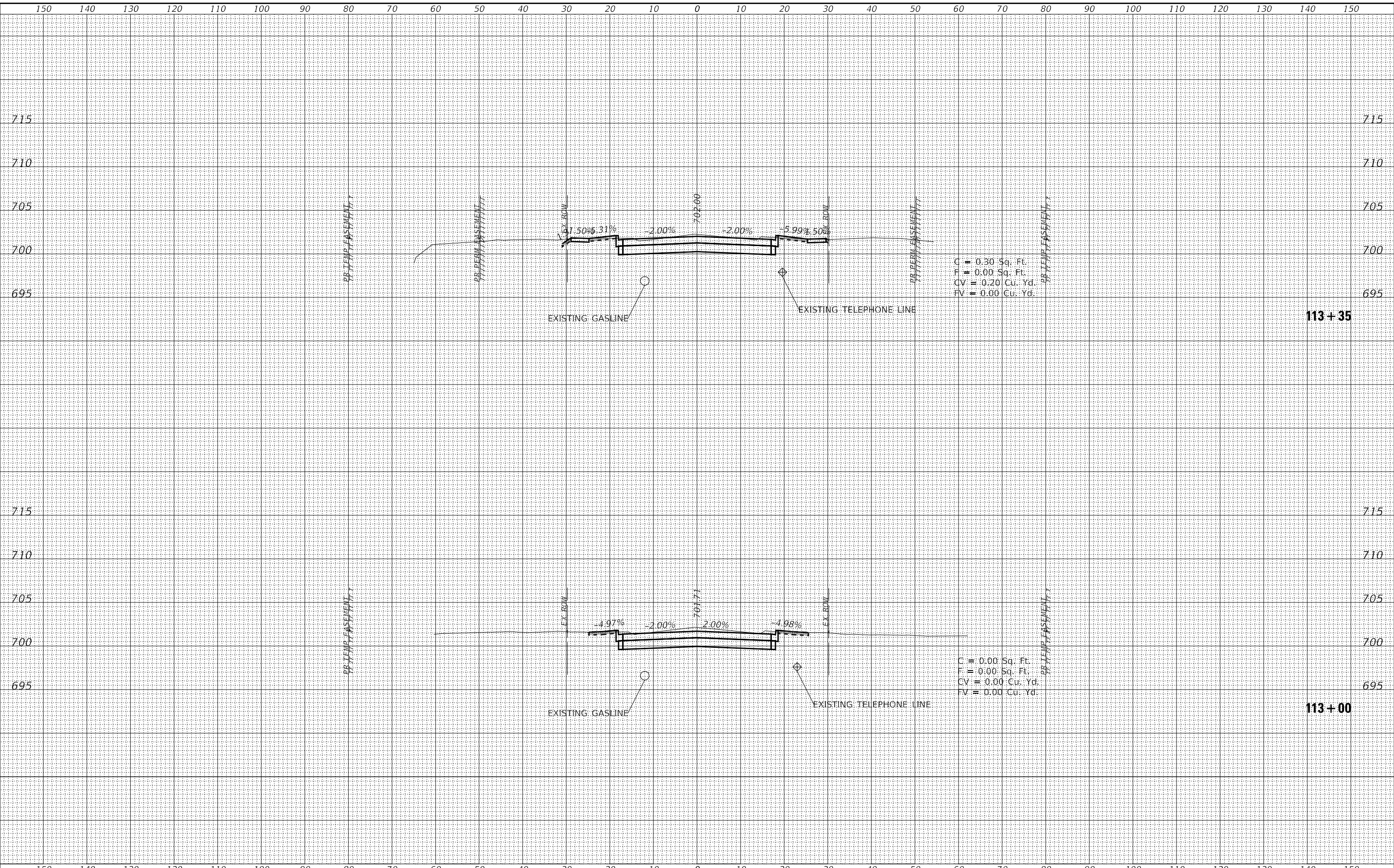
**CROSS SECTIONS
 LEICESTER ROAD**

SCALE: H: 1"=10' V: 1"=5'

STA. 112+30 TO STA. 112+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	48
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	

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DESIGNED -	REVISED -
DRAWN -	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

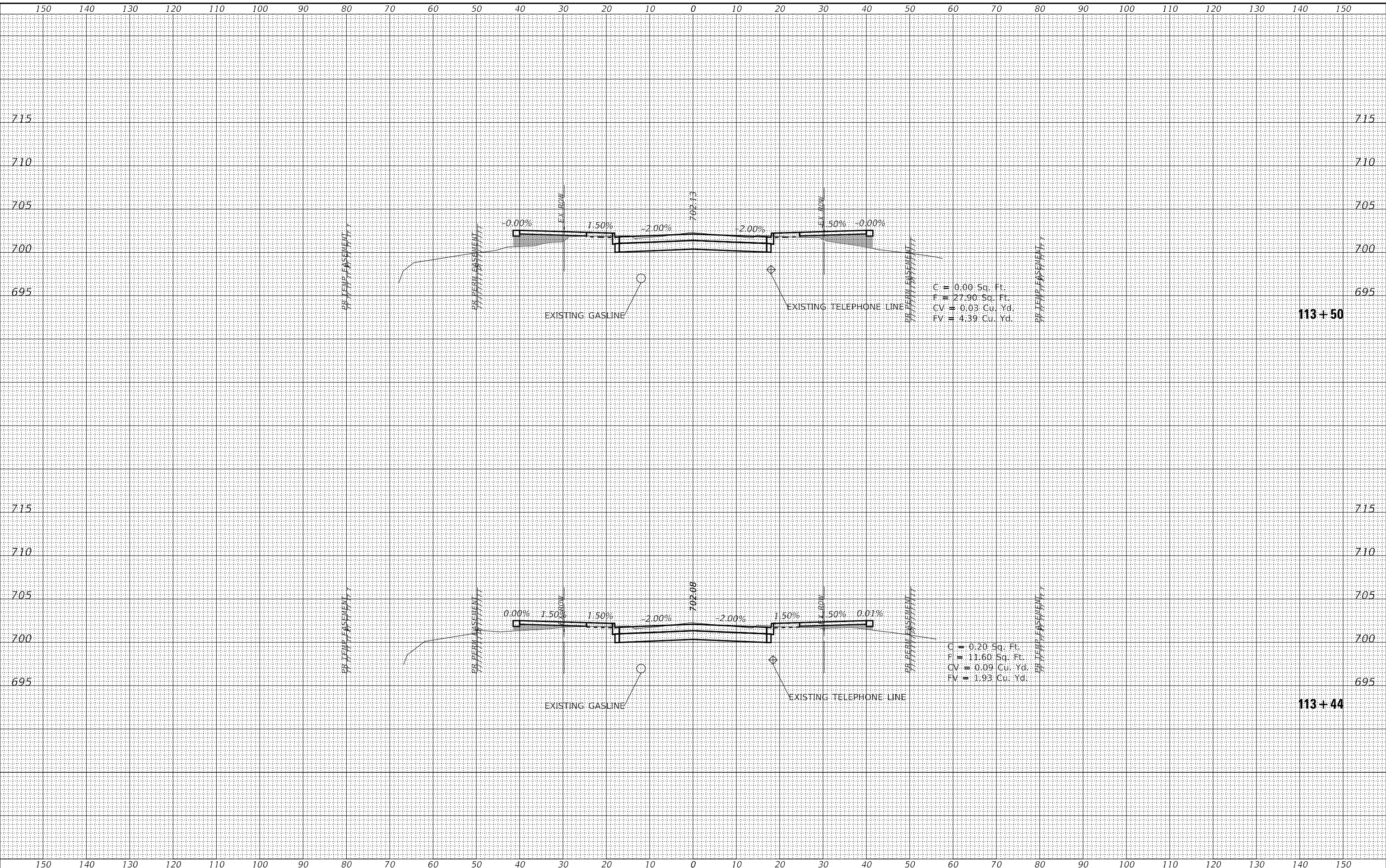
**CROSS SECTIONS
 LEICESTER ROAD**

SCALE: H: 1"=10' V: 1"=5'

STA. 113+00 TO STA. 113+35

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	49
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	

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DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 7/29/2024	FILE - 181136-SHT-XSC-Leicester.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

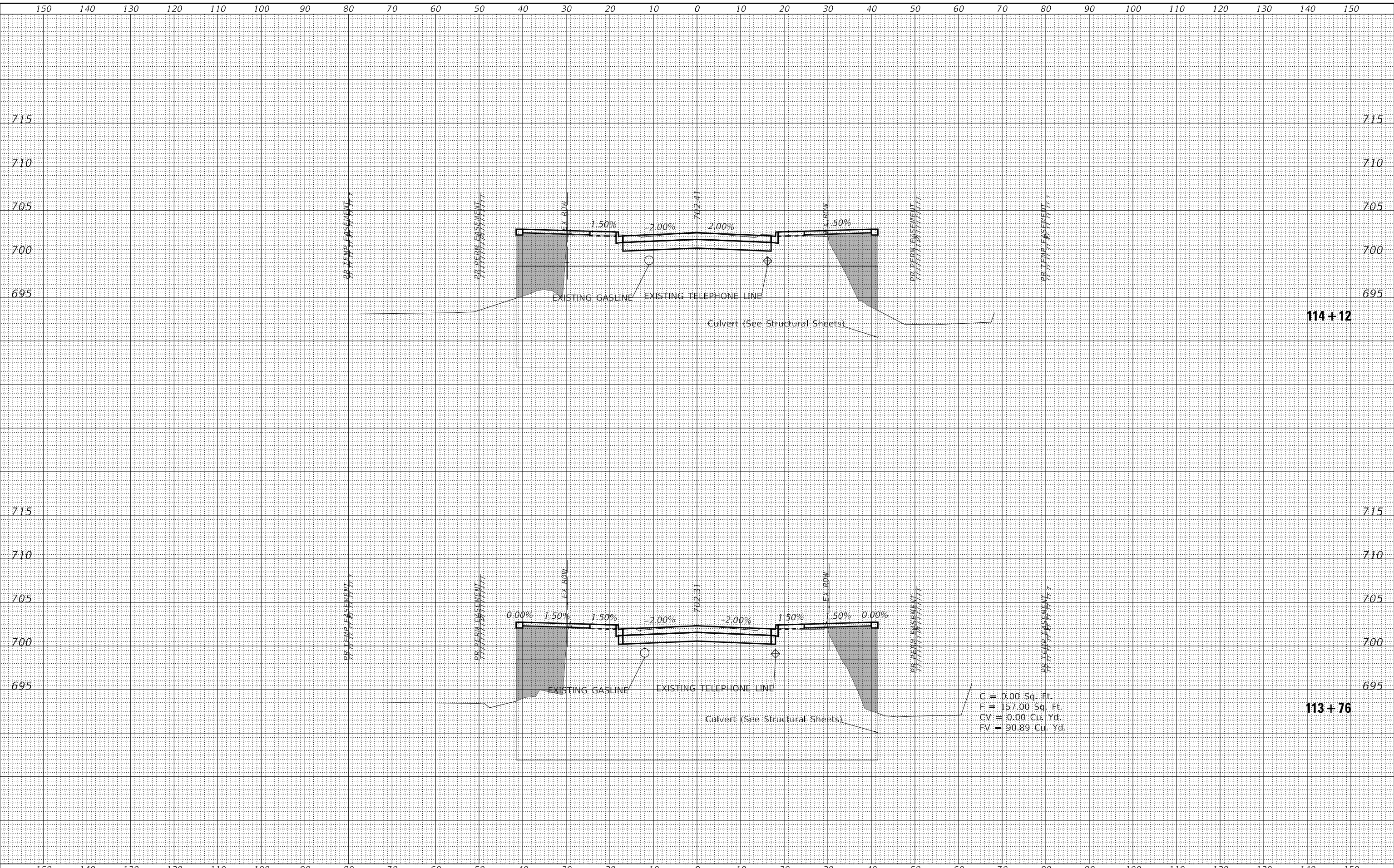
CROSS SECTIONS
 LEICESTER ROAD

SCALE: H: 1"=10' V: 1"=5'

STA. 113+44 TO STA. 113+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	50
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
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114+12

113+76

C = 0.00 Sq. Ft.
 F = 157.00 Sq. Ft.
 CV = 0.00 Cu. Yd.
 FV = 90.89 Cu. Yd.



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DATE - 7/29/2024	FILE - 181136-SHT-XSC-Leicester.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

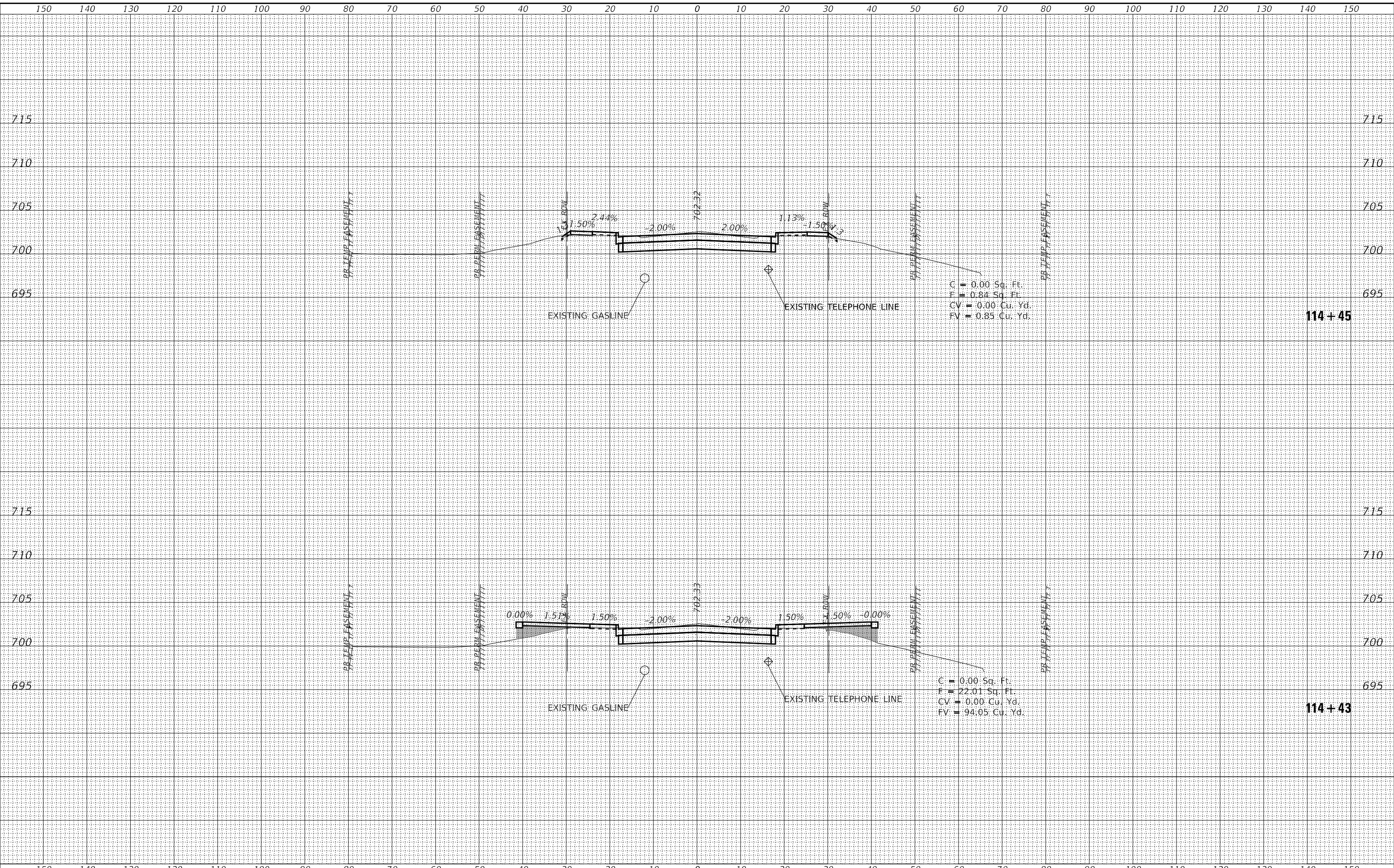
CROSS SECTIONS
 LEICESTER ROAD

SCALE: H: 1"=10' V: 1"=5'

STA. 113+76 TO STA. 114+12

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	51
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
 mwarden@baxterwoodman.com
 FILE NAME: P:\181136-Lake Cosman Bridges\CAD\Sheets\Phase II\181136-SHT-XSC-Leicester.dgn



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CHECKED -	REVISED -
DATE - 7/29/2024	FILE - 181136-SHT-XSC-Leicester.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

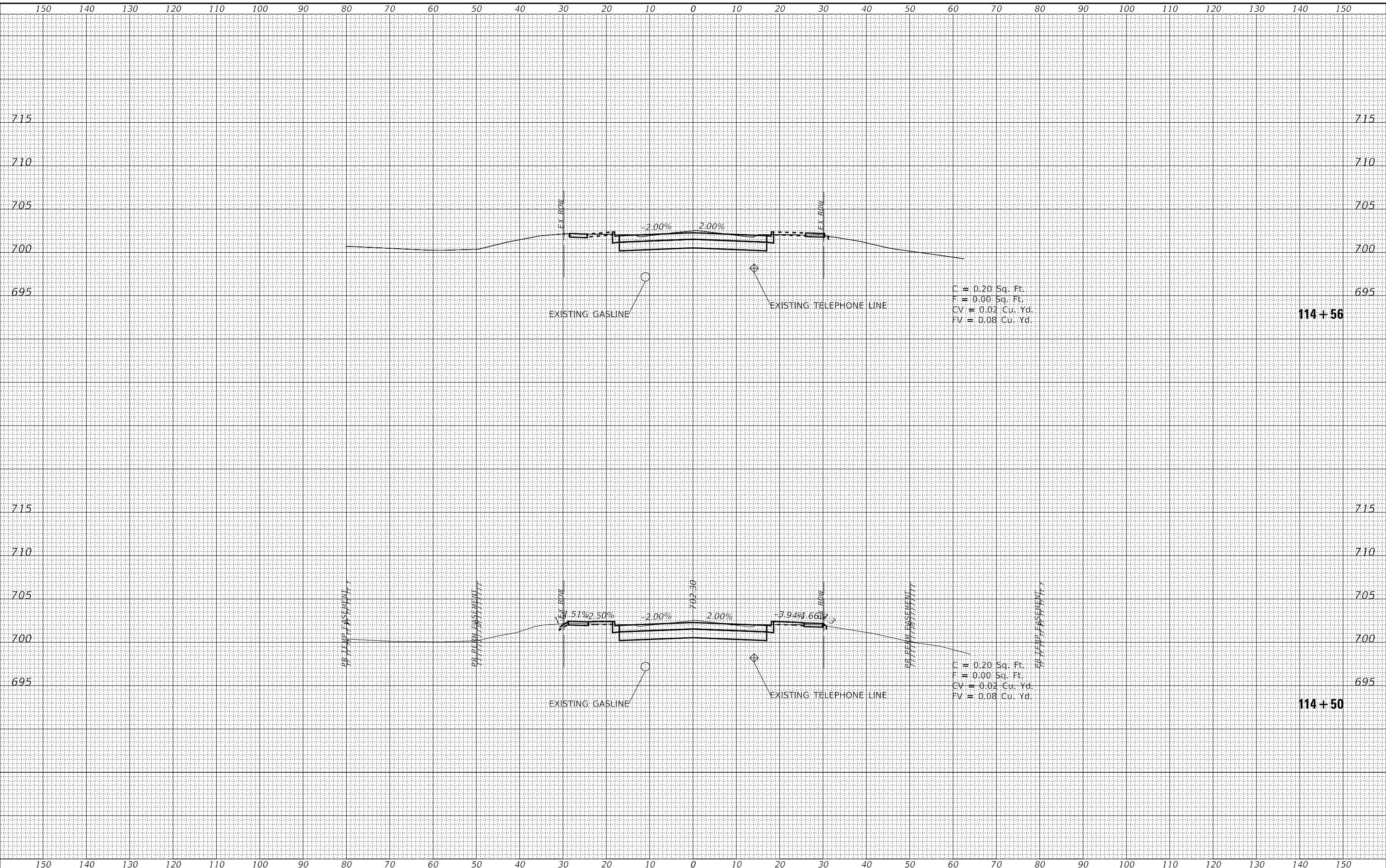
CROSS SECTIONS
 LEICESTER ROAD

SCALE: H: 1"=10' V: 1"=5'

STA. 114+43 TO STA. 114+45

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	52
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
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CHECKED -	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

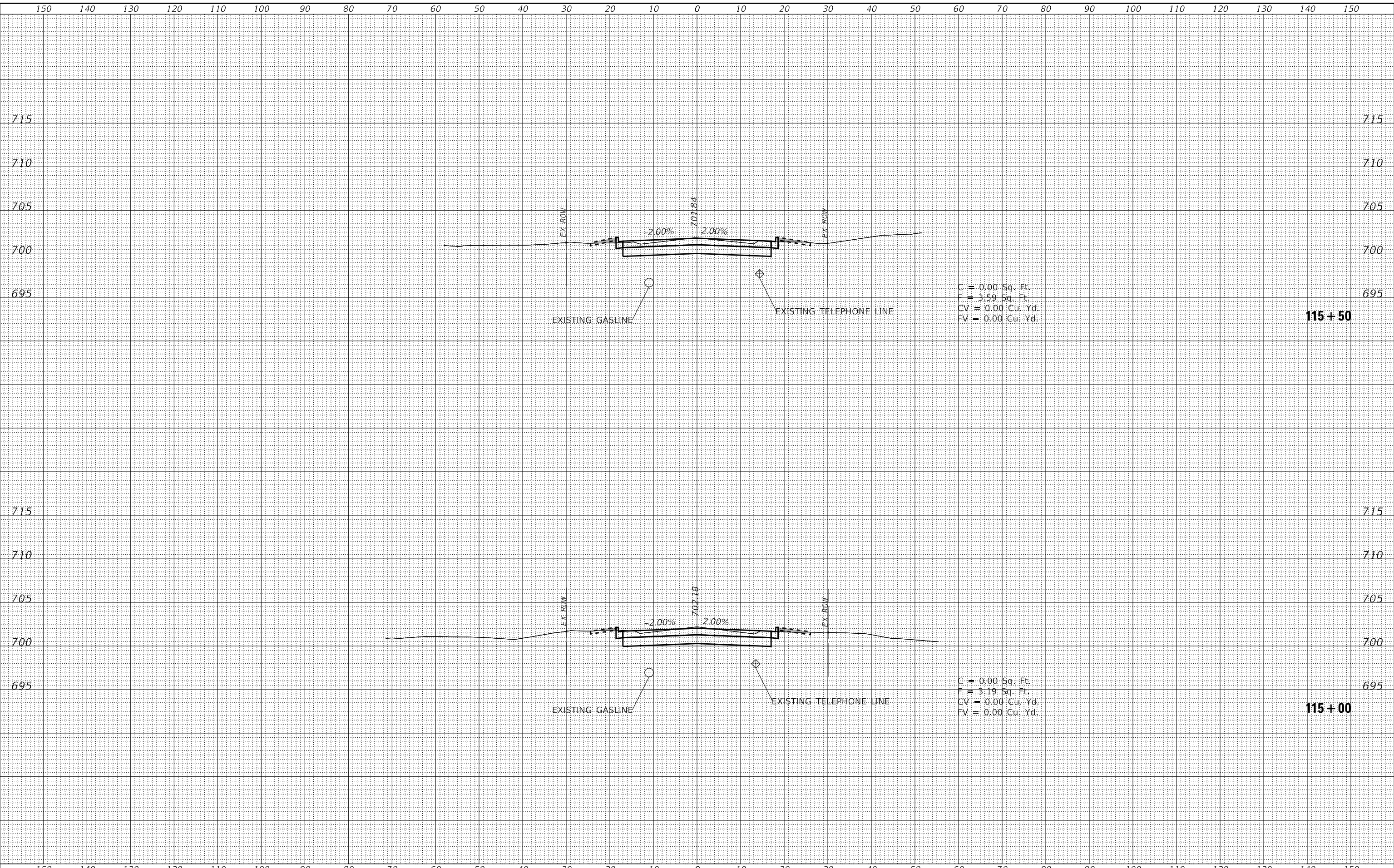
CROSS SECTIONS
 LEICESTER ROAD

SCALE: H: 1"=10' V: 1"=5'

STA. 114+50 TO STA. 114+56

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	53
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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C = 0.00 Sq. Ft.
 F = 3.59 Sq. Ft.
 CV = 0.00 Cu. Yd.
 FV = 0.00 Cu. Yd.

115 + 50

C = 0.00 Sq. Ft.
 F = 3.19 Sq. Ft.
 CV = 0.00 Cu. Yd.
 FV = 0.00 Cu. Yd.

115 + 50



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STATE OF ILLINOIS
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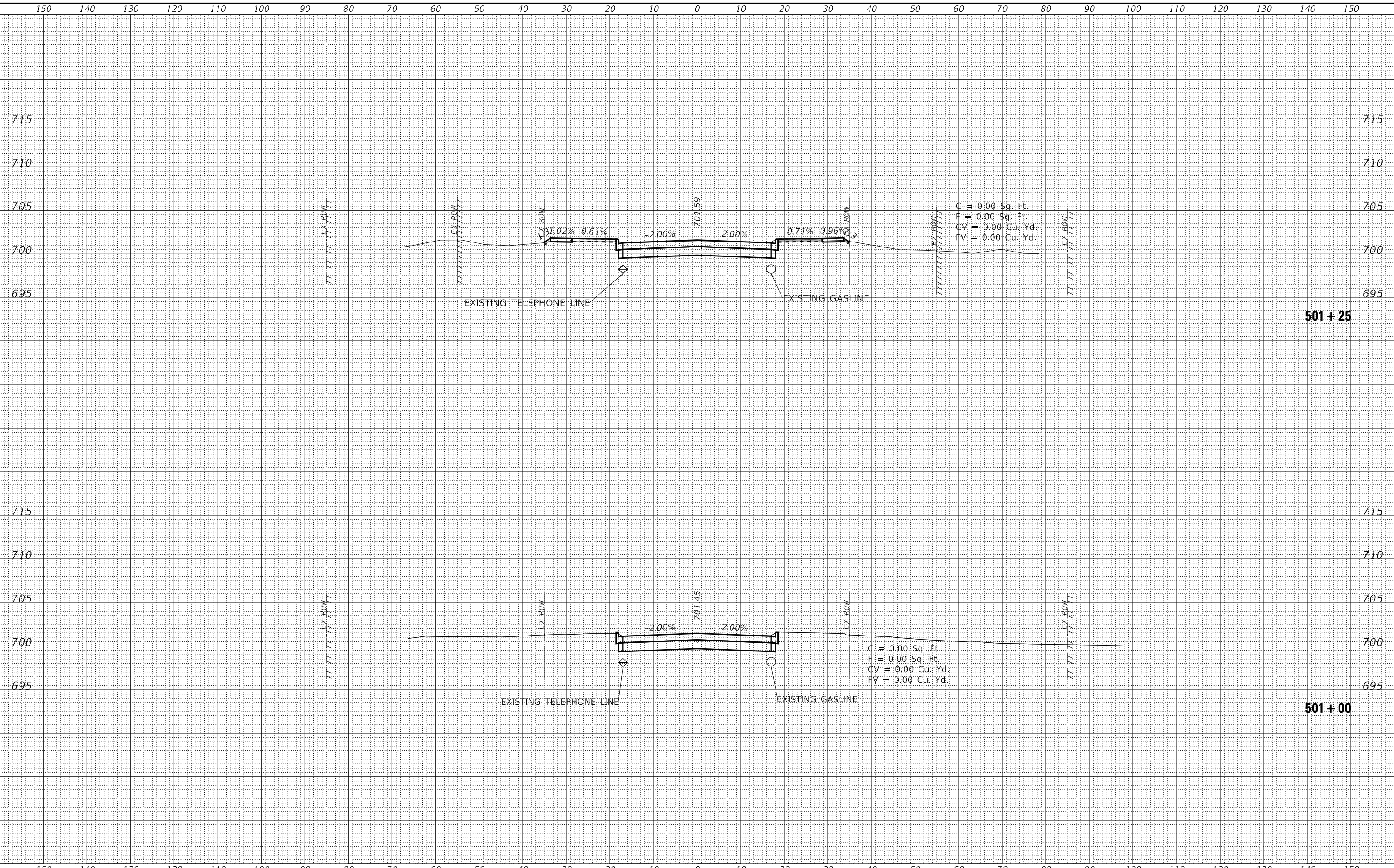
CROSS SECTIONS
 LEICESTER ROAD

SCALE: H: 1"=10' V: 1"=5'

STA. 115+00 TO STA. 115+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	54
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	

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C = 0.00 Sq. Ft.
 F = 0.00 Sq. Ft.
 CV = 0.00 Cu. Yd.
 FV = 0.00 Cu. Yd.

C = 0.00 Sq. Ft.
 F = 0.00 Sq. Ft.
 CV = 0.00 Cu. Yd.
 FV = 0.00 Cu. Yd.



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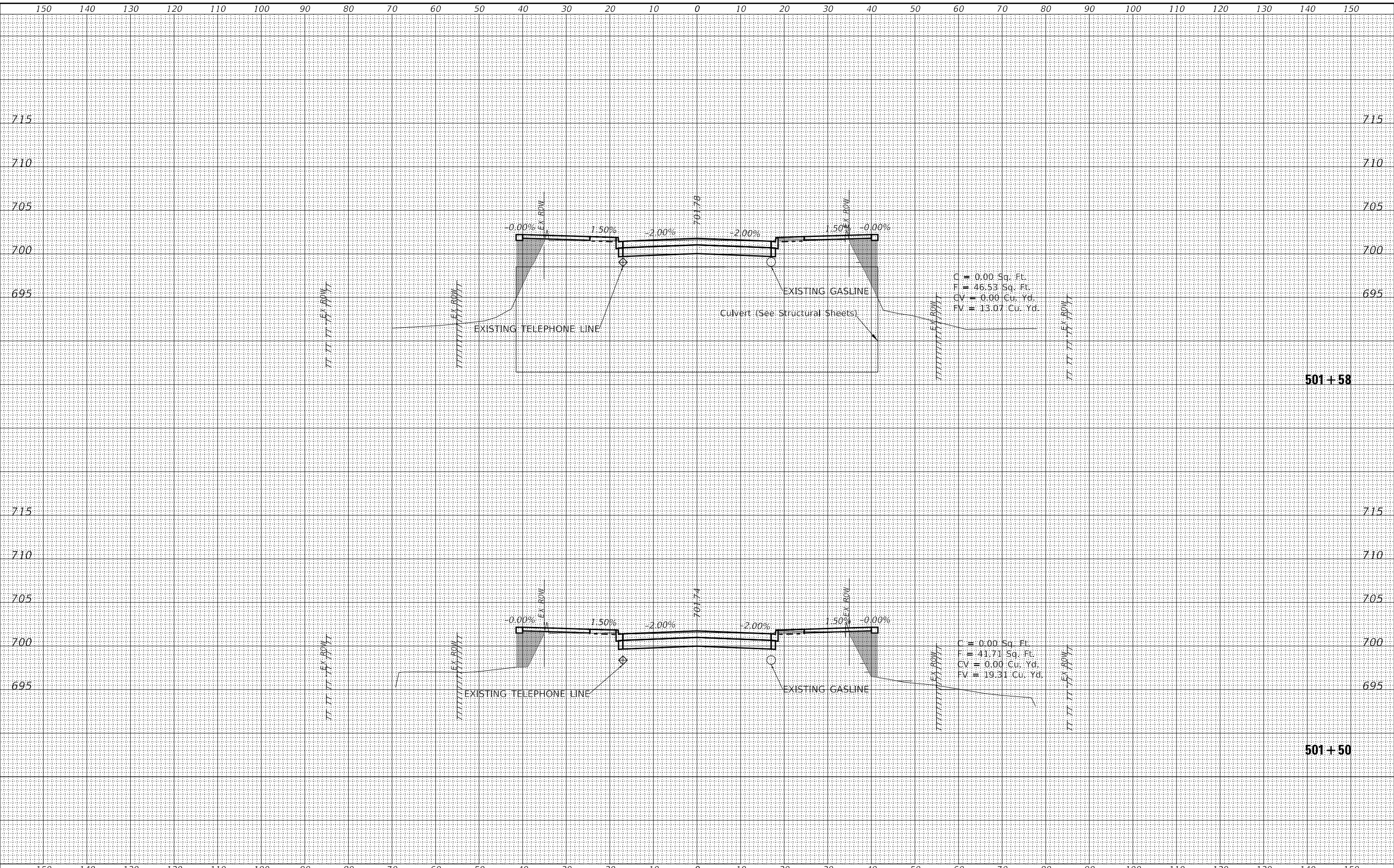
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WELLINGTON AVENUE

SCALE: H: 1"=10' V: 1"=5'
 STA. 501+00 TO STA. 501+25

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	55
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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CHECKED -	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

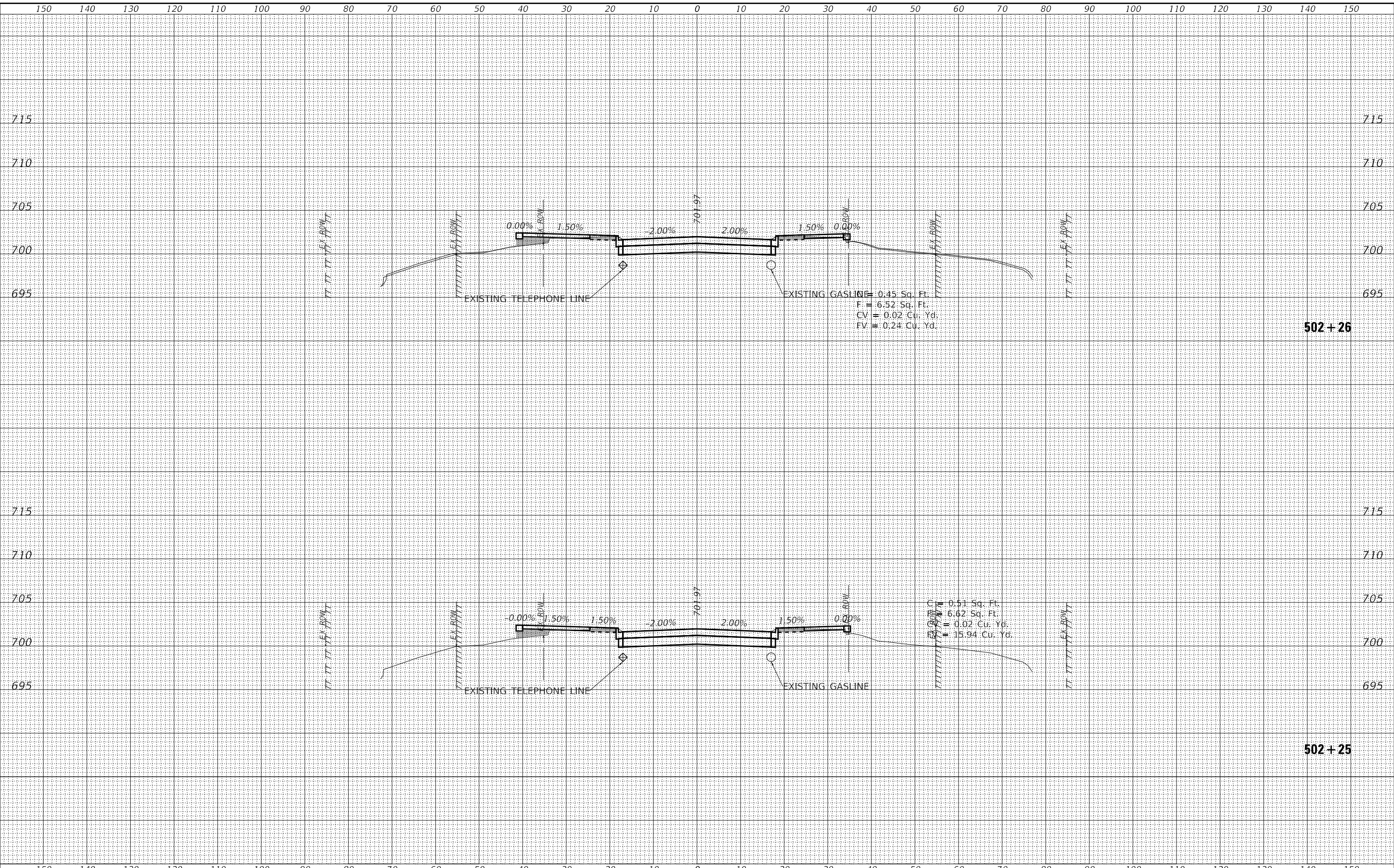
CROSS SECTIONS
 WELLINGTON AVENUE

SCALE: H: 1"=10' V: 1"=5'

STA. 501+50 TO STA. 501+58

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	56
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2024
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502+26

502+25



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 DEPARTMENT OF TRANSPORTATION

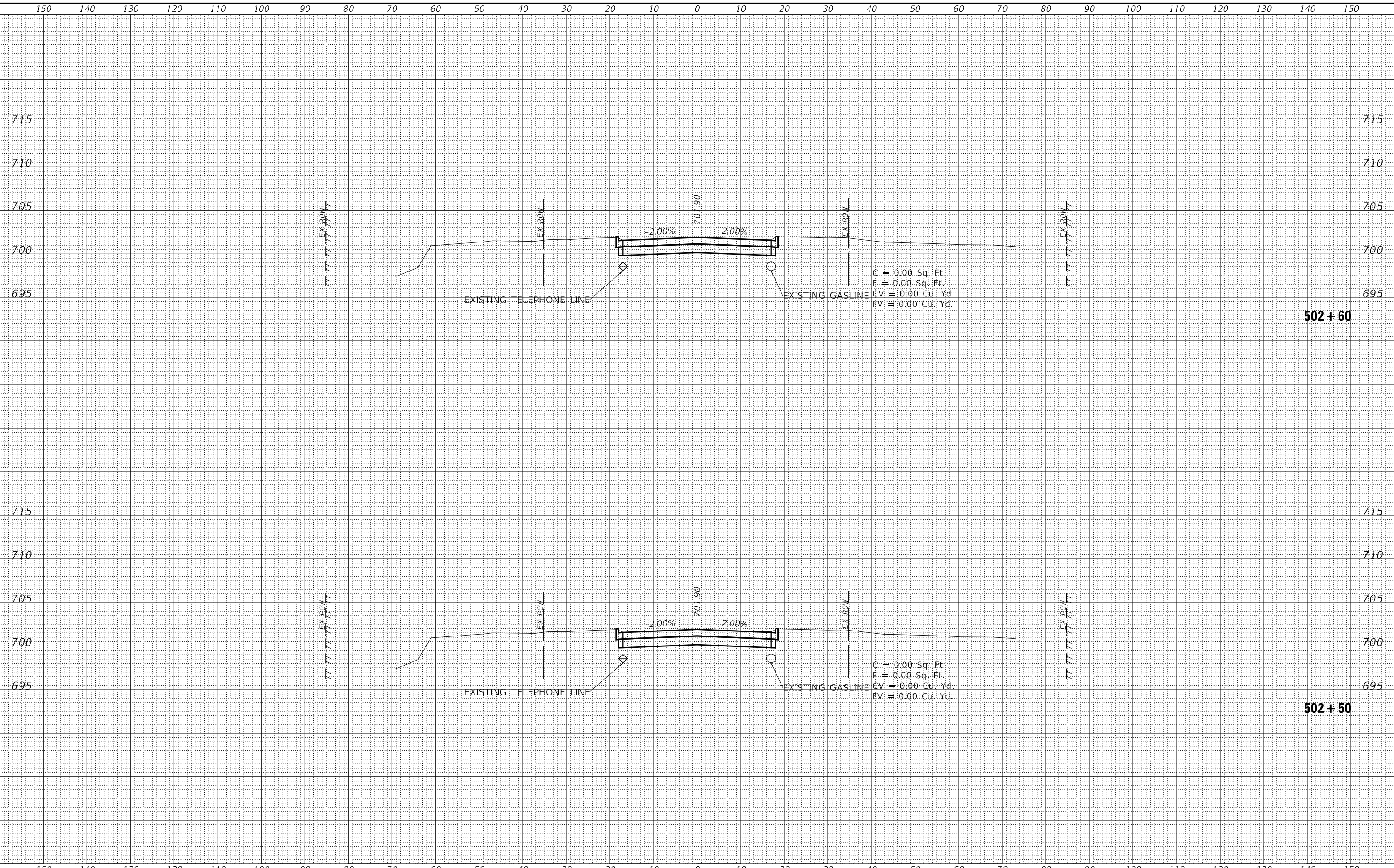
CROSS SECTIONS
 WELLINGTON AVENUE

SCALE: H: 1"=10' V: 1"=5'

STA. 502+25 TO STA. 502+26

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	58
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61K21		

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WELLINGTON AVENUE

SCALE: H: 1"=10' V: 1"=5'

STA. 502+50 TO STA. 502+60

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2100/2080	19-00070-00-BR	COOK	59	59
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K21	