

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	1
		ILLINOIS	CONTRACT NO. 62T94	

FOR INDEX OF SHEETS, SEE SHEET NO. 2






PROJECT IS LOCATED IN THE VILLAGE OF PALOS PARK IN COOK COUNTY

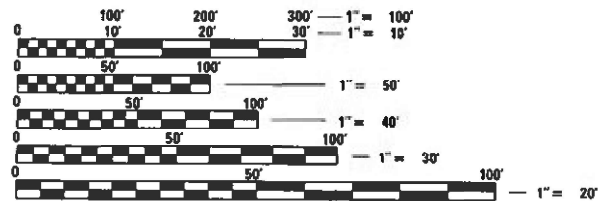
**123RD ST TRAFFIC DATA:**  
**FUNCTIONAL CLASSIFICATION**  
**MINOR ARTERIAL**  
2021 ADT = 7850  
SPEED LIMIT = 35 MPH  
DESIGN SPEED = 40 MPH

# PROPOSED HIGHWAY PLANS

FAU 1587 /123RD STREET (MCCARTHY ROAD)  
AT CREEK 0.3 MILES EAST OF US 45  
AND MILL CREEK WEST OF 90TH AVE  
SECTION FAU 1587 22 CR  
PROJECT STP-JSP0(118)  
CULVERT REPLACEMENT  
EXISTING S.N.: 016-0880 & 016-1359  
PROPOSED S.N.: 016-1668 & 016-8300  
COOK COUNTY

R 12 E C-91-353-22

	ATLAS ENGINEERING GROUP, LTD. Date: 05/03/2024 Behzad Armani, P.E. Expires: 11/30/2025 Sheet No.: 27, 30-33, 33-66		BAXTER & WOODMAN CONSULTING ENGINEERS Date: 05/03/2024 Dennis T. Hogan, P.E. Expires: 11/30/2025 Sheet No.: 28-29
	ATLAS ENGINEERING GROUP, LTD. Date: 05/03/2024 Jennifer A. Loeschel, P.E., S.E. Expires: 11/30/2024 Sheet No.: 35-46		
	HDR, INC. Date: 05/03/2024 Michael B. Quinn, P.E., S.E. Expires: 11/30/2024 Sheet No.: 37-52		
	HCH GROUP INC. Date: 05/03/2024 Brent A. Porfijo, P.E. Expires: 11/30/2025 Sheet No.: 33-35		

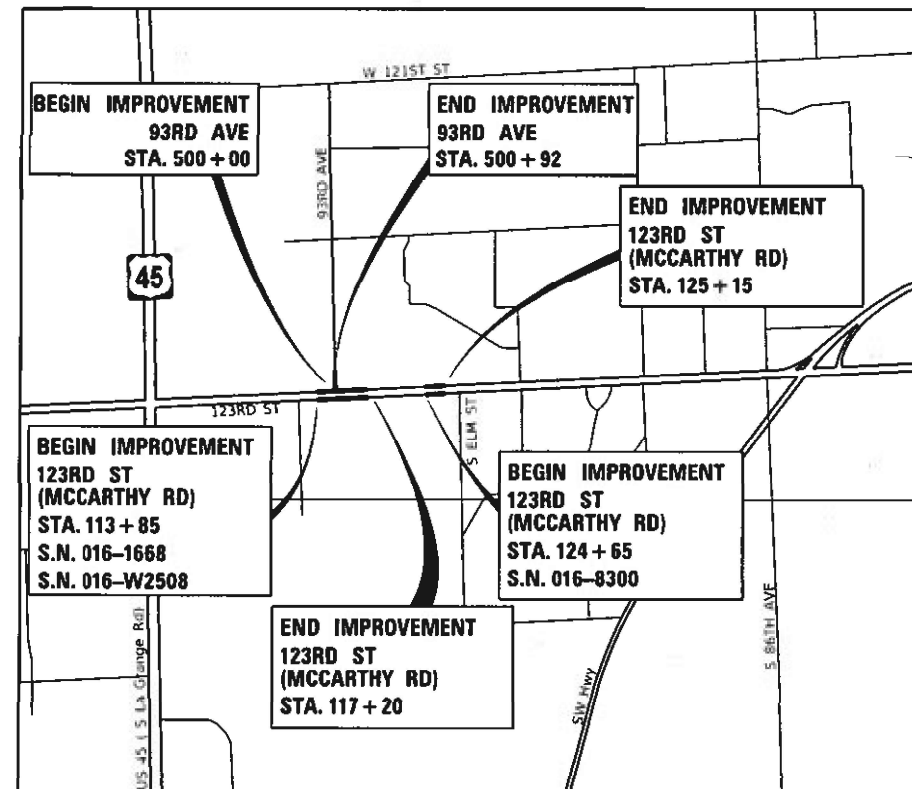


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT MANAGER - PRAVEEN KAINI, PE (847) 705-4237

CONTRACT NO. 62T94



PALOS TOWNSHIP  
LOCATION MAP (N.T.S.)

GROSS LENGTH = 1130 FT. = 0.214 MILE  
NET LENGTH = 385 FT. = 0.073 MILE



**AEG** ATLAS ENGINEERING GROUP, LTD.  
211 W. Wacker Drive, Suite 730 | Chicago, IL 60606  
(847) 753-8020 (office) | (847) 753-8023 (fax)

**BAXTER & WOODMAN**  
Consulting Engineers

**HDR**

**HCH GROUP**

**GSS CONSULTANTS, INC.**  
ENGINEERS - SCIENTISTS - CONSTRUCTION MANAGERS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
SUBMITTED June 18 2024  
Jose Lopez REGIONAL ENGINEER  
August 16, 2024  
Scott A. Etk ENGINEER OF DESIGN AND ENVIRONMENT  
August 16, 2024  
James J. Quinn DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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OF THE STATE OF ILLINOIS

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## HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIA.
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALLS FOR PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-05	FRAME AND LIDS TYPE 1
604036-03	GRATE TYPE 8
604051-04	FRAME AND GRATE TYPE 11
630101-11	STRONG POST GUARDRAIL ATTACHED TO CULVERT
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS- DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-09	TRAFFIC CONTROL DEVICES

## DISTRICT 1 STANDARD DETAILS

BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER $\geq$ 15'
BD-32	BUTT JOINT & HMA TAPER DETAILS
BD-34	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY.1 SPL.
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN

## GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND MAINTAINING AN ELECTRONIC LOG OF ALL STAKEOUT SURVEY THAT IS PERFORMED ON THE JOB, EITHER BY HIM/HER OR ANY SUB-CONTRACTOR PERFORMING THE STAKEOUT. UPON REQUEST, ALL LOGS SHALL BE SUBMITTED TO THE DEPARTMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
3. NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN INSTALLED.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF PALOS PARK TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
6. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND BEST INFORMATION AVAILABLE BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATIONS FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
7. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION, LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
9. ALL EXCESS MATERIAL SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMP SITES AND OBTAIN PERMISSION AND ALL NECESSARY PERMITS TO USE SUCH DUMP SITES.
10. THE CONTACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
11. THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS FOR TRAFFIC AS SHOWN ON THE IDOT STANDARDS 701901-08.
12. THE CONTRACTOR SHALL USE CARE NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
13. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
14. DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKDAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
15. THE STRIPPED TOPSOIL SHALL BE STOCKPILED, SORTED, AND REUSED FOR THE PROPOSED LANDSCAPING IMPROVEMENTS. THE ACTUAL REMOVAL DEPTH AND QUANTITY OF TOPSOIL REMOVAL SHALL BE VERIFIED IN THE FIELD.
16. WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
17. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT AND LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.
18. THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS TO NOT CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.

## GENERAL NOTES (CONTINUED)

19. CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT 847-705-4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK.
20. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
21. 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.
22. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.
23. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
24. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
25. THE CONTRACTOR SHALL CONTACT THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
26. TWO WEEEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN AT PATRICE.HARRIS@ILLINOIS.GOV
27. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD, FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
28. THE CONTRACTOR SHALL EXERCISE THE UTMOST CARE WHILE DRIVING SHEET PILES AND CONDUCTING EARTH EXCAVATION TO AVAOID ANY CONFLICTS WITH THE OVERHEAD LINES AND THE UNDERGROUND UTILITIES DURING CONSTRUCTION.
29. THE CONTRACTOR SHALL CALL 1-800-334-7661 AND REQUEST "FACILITY PROTECTION" WHILE WORKING CLOSE TO THE AERIAL COMED LINES.
30. THIS PROJECT REQUIRES AN US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
31. THE RESIDENT ENGINEER SHALL NOTIFY ALEX JEZISKI (ALEXANDER.JEZISKI@COOKCOUNTYIL.GOV) WHEN THE DETOUR IS SLATED TO BEGIN OR IF THE SCOPE OF THE PROJECT CHANGES ON COUNTY JURISDICTIONS.

## COMMITMENTS

NONE

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	PLOT SCALE = 100,0000' / in.	CHECKED - BA	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	1587	FAU 1587 22 CR	COOK	66	2
	PLOT DATE = 6/26/2024	DATE -	REVISED -								CONTRACT NO. 62T94 ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BOX CULVERT	BOX CULVERT	RETAINING WALL
				0004	0004	0044
				016-1668	016-8300	016-W2508
** 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	86	7	17	62
** 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	40	20		20
** 20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.16	0.09	
20101000	TEMPORARY FENCE	FOOT	132	110	22	
20101100	TREE TRUNK PROTECTION	EACH	10	6	3	1
20101200	TREE ROOT PRUNING	EACH	1			1
20101700	SUPPLEMENTAL WATERING	UNIT	2.9	0.3	2.6	
20200100	EARTH EXCAVATION	CU YD	258	243	15	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	205	205		
20800150	TRENCH BACKFILL	CU YD	112	92	20	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	319	285	34	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,417	1,308	109	
21400100	GRADING AND SHAPING DITCHES	FOOT	35	35		
** 25000210	SEEDING, CLASS 2A	ACRE	0.25	0.15	0.1	

\* = SPECIAL PROVISION  
\*\* = SPECIALTY ITEM  
\*\*\* = SPECIAL PROVISION & SPECIALTY ITEM

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PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
123RD STREET & 93RD AVENUE**

SCALE: N.T.S. SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	3
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BOX CULVERT	BOX CULVERT	RETAINING WALL
				0004	0004	0044
				016-1668	016-8300	016-W2508
** 25000312	SEEDING, CLASS 4A	ACRE	0.25	0.16	0.09	
** 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	26	24	2	
** 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	26	24	2	
** 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	26	24	2	
	25100630	EROSION CONTROL BLANKET	SQ YD	1,369	1,309	60
** 25200110	SODDING, SALT TOLERANT	SQ YD	50		50	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	29	26	3
	28000305	TEMPORARY DITCH CHECKS	FOOT	96	80	16
** 28000400	PERIMETER EROSION BARRIER	FOOT	830	739	91	
** 28000500	INLET AND PIPE PROTECTION	EACH	2	2		
	28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	1,372	1,263	109
	28100105	STONE RIPRAP, CLASS A3	SQ YD	3		3
	28100107	STONE RIPRAP, CLASS A4	SQ YD	234	180	54
	28200200	FILTER FABRIC	SQ YD	234	180	54

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PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
123RD STREET & 93RD AVENUE**

SCALE: N.T.S. SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	4
			CONTRACT NO. 62T94	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BOX CULVERT	BOX CULVERT	RETAINING WALL
				0004	0004	0044
				016-1668	016-8300	016-W2508
* 30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	105	94	11	
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1,272	1,138	134	
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	114	37	77	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,860	2,560	300	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	573	513	60	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	930	830	100	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	13	4.5	8.5	
40701921	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"	SQ YD	1,272	1,138	134	
42001300	PROTECTIVE COAT	SQ YD	40	19	19	2
44000100	PAVEMENT REMOVAL	SQ YD	1,317	1,183	134	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	137	36	101	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	618	503	115	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	11	11		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	271	248	23	

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	USER NAME = cpujari	DESIGNED - CVP	REVISED -	<b>STATE OF ILLINOIS  DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES  123RD STREET &amp; 93RD AVENUE</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / in.	DRAWN - CVP	REVISED -		1587	FAU 1587 22 CR	COOK	66	5			
PLOT DATE = 6/12/2024	CHECKED - BA	REVISED -	SCALE: N.T.S.		SHEET 3 OF 9 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -										

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BOX CULVERT	BOX CULVERT	RETAINING WALL
				0004	0004	0044
				016-1668	016-8300	016-W2508
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2	1	1	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	183	183		
50300225	CONCRETE STRUCTURES	CU YD	20.2			20.2
50500505	STUD SHEAR CONNECTORS	EACH	64			64
50800105	REINFORCEMENT BARS	POUND	15,860		15,860	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	49,980	48,450		1,530
51204650	PILE SHOES	EACH	12			12
** 51500100	NAME PLATES	EACH	3	1	1	1
** 52200015	PERMANENT SHEET PILING	SQ FT	582		582	
** 52200100	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	218			218
** 52200150	DRIVING SOLDIER PILES	FOOT	218			218
** 52200250	UNTREATED TIMBER LAGGING	SQ FT	332			332
54003000	CONCRETE BOX CULVERTS	CU YD	297.6	217.0	80.6	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1		

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	DRAWN - CVP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BA	REVISED -
PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
123RD STREET & 93RD AVENUE**

SCALE: N.T.S. SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	6
			CONTRACT NO. 62T94	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BOX CULVERT 0004	BOX CULVERT 0004	RETAINING WALL 0044
				016-1668	016-8300	016-W2508
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	42		32	10
55100300	STORM SEWER REMOVAL 8"	FOOT	23	23		
55100500	STORM SEWER REMOVAL 12"	FOOT	159	127	32	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	259	146	77	36
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	1			1
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	791	791		
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	92			92
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1		
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1		
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	1			1
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1			1
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	1	1		
60256400	MANHOLES TO BE ADJUSTED WITH NEW TYPE 8 GRATE	EACH	1	1		
60500050	REMOVING CATCH BASINS	EACH	3	3		

\* = SPECIAL PROVISION  
\*\* = SPECIALTY ITEM  
\*\*\* = SPECIAL PROVISION & SPECIALTY ITEM

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PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
123RD STREET & 93RD AVENUE**

SCALE: N.T.S. SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	7
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BOX CULVERT	BOX CULVERT	RETAINING WALL
				0004	0004	0044
				016-1668	016-8300	016-W2508
60500060	REMOVING INLETS	EACH	3	3		
60600605	CONCRETE CURB, TYPE B	FOOT	71	29	42	
60602800	CONCRETE GUTTER, TYPE B	FOOT	91			91
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	67		67	
** 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	225	225		
** 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	162.5	87.5	75	
** 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	62.5	37.5	25	
** 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3	2	1	
** 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	3	1	
63200310	GUARDRAIL REMOVAL	FOOT	374	374		
** 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	260	260		
** 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	1	1	
** 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.34	0.33	0.33
** 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.34	0.33	0.33

\* = SPECIAL PROVISION  
 \*\* = SPECIALTY ITEM  
 \*\*\* = SPECIAL PROVISION & SPECIALTY ITEM

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PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 123RD STREET & 93RD AVENUE**

SCALE: N.T.S. SHEET 6 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	8
CONTRACT NO. 62T94			ILLINOIS FED. AID PROJECT	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BOX CULVERT	BOX CULVERT	RETAINING WALL
				0004	0004	0044
				016-1668	016-8300	016-W2508
** 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	18	18		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12		
67100100	MOBILIZATION	L SUM	1	0.34	0.33	0.33
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	240	240		
** 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,505	1,405	100	
** 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	15	15		
** 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	10	2	
** 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	19	15	4	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	10	2	
*** 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	2		
** A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	1		1	
** A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	3	3		
** A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	3	3		
** B2000564	TREE, AMELANCHIER CANADENSIS (SHADBLOW SERVICEBERRY), 5' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	5		5	

\* = SPECIAL PROVISION  
\*\* = SPECIALTY ITEM  
\*\*\* = SPECIAL PROVISION & SPECIALTY ITEM

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PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
123RD STREET & 93RD AVENUE**

SCALE: N.T.S. SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	9
			CONTRACT NO. 62T94	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BOX CULVERT	BOX CULVERT	RETAINING WALL
				0004	0004	0044
				016-1668	016-8300	016-W2508
** B2001164	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 5' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	8	8		
** C2000136	SHRUB, AESCULUS PARVIFLORA (BOTTLEBRUSH BUCKEYE), 3' HEIGHT, BALLED AND BURLAPPED	EACH	5	5		
** D2003760	EVERGREEN, THUJA PLICATA GREEN GIANT (GREEN GIANT WESTERN ARBORVITAE), 5' HEIGHT, BALLED AND BURLAPPED	EACH	5	5		
* K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	2	1	1	
* X6050188	PLUG PIPE PENETRATION	EACH	2	2		
* X2010400	STUMP REMOVAL ONLY	UNIT	42	42		
*** X2600011	REMOVE AND RELOCATE SIGN PANEL	EACH	1	1		
* X4810200	AGGREGATE SHOULDER REMOVAL	CU YD	9	7	2	
* X5021512	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	2	1	1	
* X5510011	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	1	1		
* X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	75	75		
* X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	223	146	77	
*** X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	26	26		
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.34	0.33	0.33

\* = SPECIAL PROVISION  
\*\* = SPECIALTY ITEM  
\*\*\* = SPECIAL PROVISION & SPECIALTY ITEM

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PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
123RD STREET & 93RD AVENUE**

SCALE: N.T.S. SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	10
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BOX CULVERT	BOX CULVERT	RETAINING WALL
				0004	0004	0044
				016-1668	016-8300	016-W2508
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.34	0.33	0.33
* Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2	2		
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	102.8		
* Z0054400	ROCK FILL	CU YD	183	183		
* Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	10	10		
*** X2010516	SELECTIVE CLEARING	UNIT	3	2	1	
*** Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	10	10		
∅ Z0076600	TRAINEES	HOUR	1000	1000		
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1000	1000		

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 123RD STREET & 93RD AVENUE**

SCALE: N.T.S. | SHEET 9 OF 9 SHEETS | STA. TO STA.

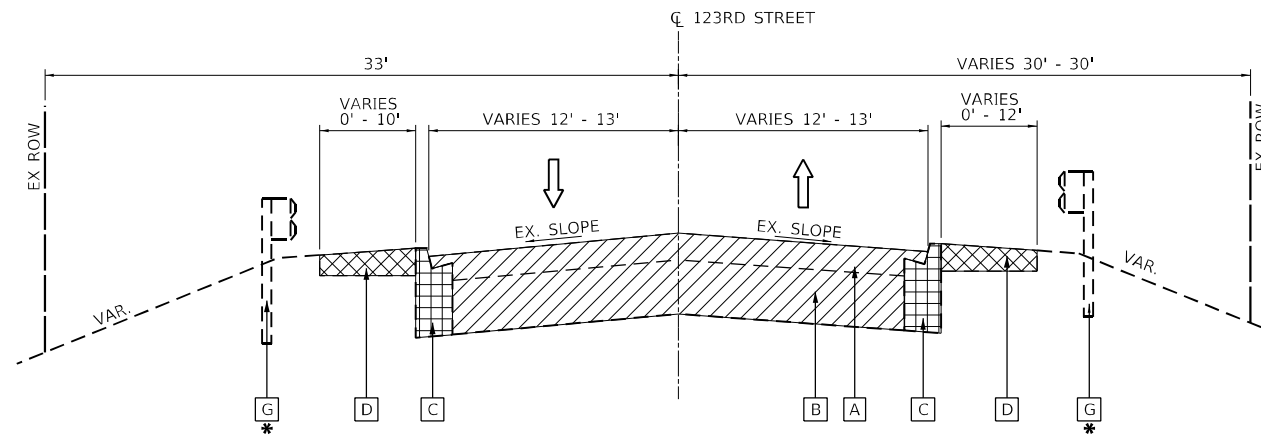
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				CONTRACT NO. 62T94
ILLINOIS FED. AID PROJECT				

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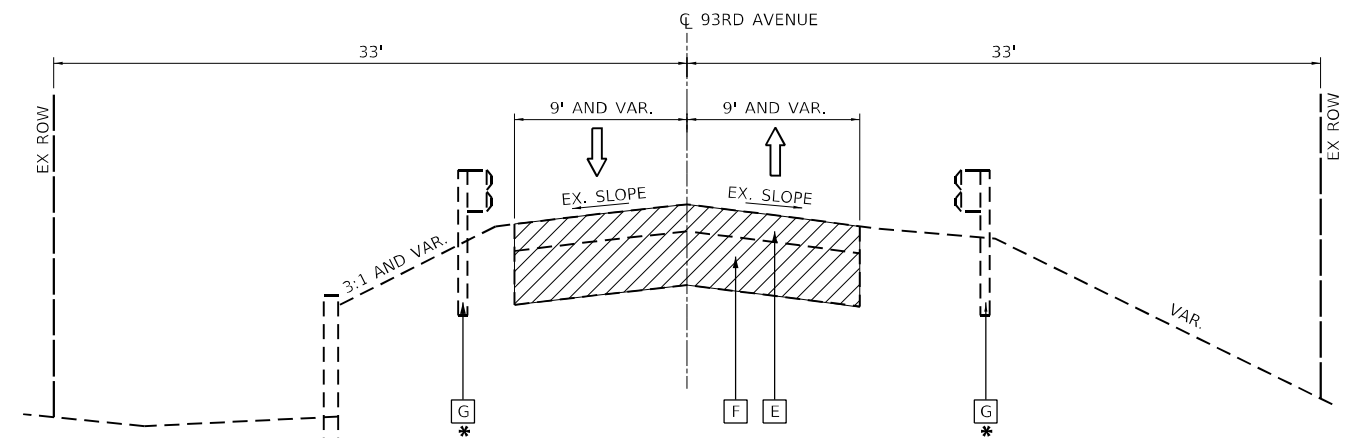
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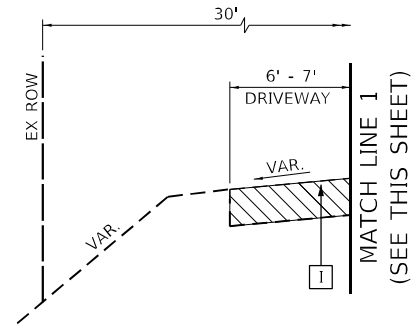




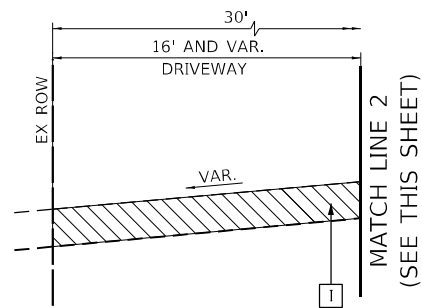
**123RD STREET (MCCARTHY ROAD)  
EXISTING TYPICAL SECTION  
(LOOKING EAST)**  
STA 113+85 TO STA 117+20



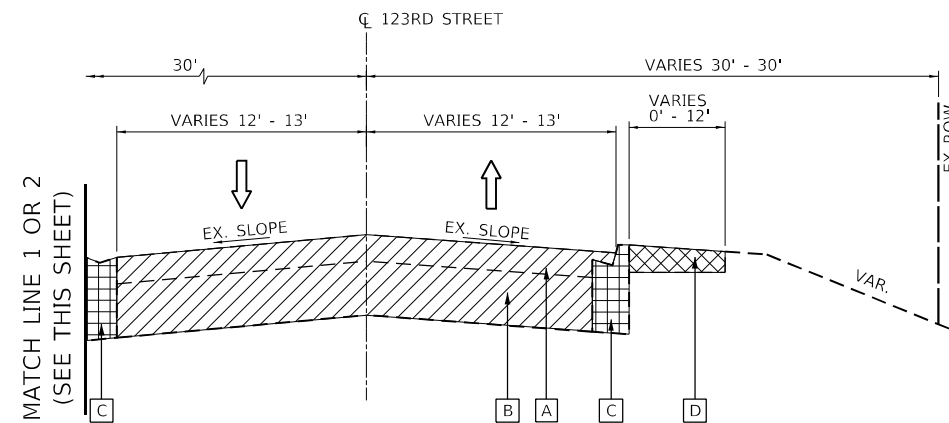
**93RD AVENUE  
EXISTING TYPICAL SECTION  
(LOOKING NORTH)**  
STA 500+00 TO STA 500+92



STA 124+83 TO STA 125+07



STA 124+65 TO STA 124+83  
STA 125+07 TO STA 125+15



**123RD STREET (MCCARTHY ROAD)  
EXISTING TYPICAL SECTION  
(LOOKING EAST)**  
STA 124+65 TO STA 125+15

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @NDES	QUALITY MANAGEMENT PROGRAM (QMP)
<b>HOT-MIX ASPHALT PAVEMENT (FD) 12" (123RD STREET &amp; 93RD AVENUE)</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 10"	4% @ 70 GYR.	QC/QA
<b>HOT-MIX ASPHALT DRIVEWAYS</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"	4% @ 50 GYR.	QC/QA
HOT-MIX ASPHALT BASE COURSE, 6" (HMA BINDER IL-19.0)	4% @ 50 GYR.	QC/QA
<b>HOT-MIX ASPHALT SHOULDER, 6"</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4"	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)		

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIX 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 MATERIAL SPECIFICATIONS.

**NOTE:**

- ITEMS SPECIFIED WITH AN ASTERISK (\*) ARE NOT PRESENT AT ALL LOCATIONS FOR DETAILS SEE ROADWAY PLANS

**LEGEND**

- |   |   |   |                       |
|---|---|---|-----------------------|
| A | EX. HOT-MIX ASPHALT SURFACE COURSE, ± 6"          | I | EX. DRIVEWAY PAVEMENT |
| B | EX. PCC BASE COURSE, ± 7"                         |   |                       |
| C | EX. COMB. CONC. CURB AND GUTTER, B-6.12 OR B-6.18 |   |                       |
| D | EX. AGGREGATE SHOULDER, TY B, ± 2"                |   |                       |
| E | EX. HOT-MIX ASPHALT SURFACE COURSE, ± 2"          |   |                       |
| F | EX. AGGREGATE BASE COURSE, ± 8"                   |   |                       |
| G | EX. GUARDRAIL                                     |   |                       |
| H | EX. CULVER WING OR HEAD WALL (TO REMAIN IN PLACE) |   |                       |
|   |   |   |                       |
|   |   |   |                       |
|   |   |   |                       |
|   |   |   |                       |

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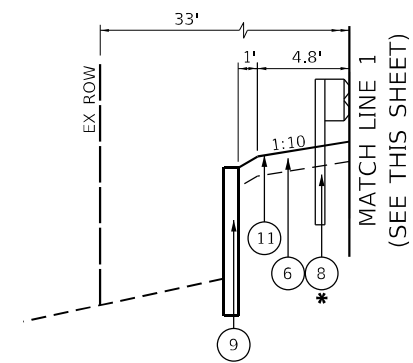
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

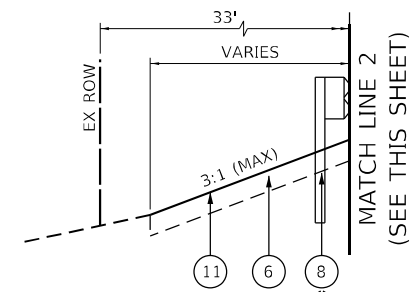
**EXISTING TYPICAL SECTIONS  
123RD STREET & 93RD AVENUE**

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

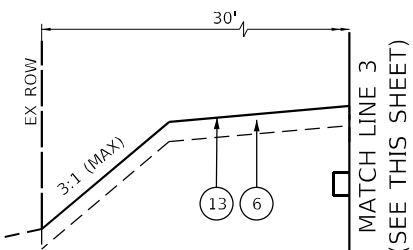
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	14
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				



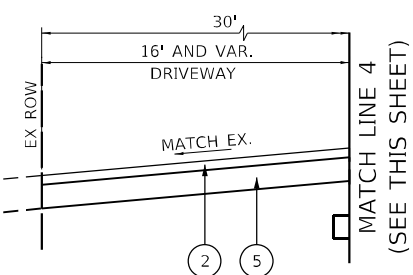
STA 114+22 TO STA 115+52



STA 113+85 TO STA 114+22  
STA 115+52 TO STA 117+20



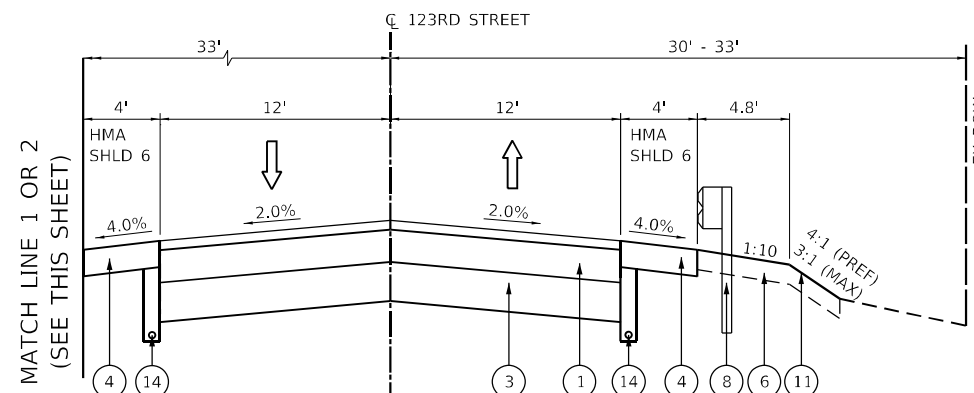
STA 124+83 TO STA 125+07



STA 124+65 TO STA 124+83  
STA 125+07 TO STA 125+15

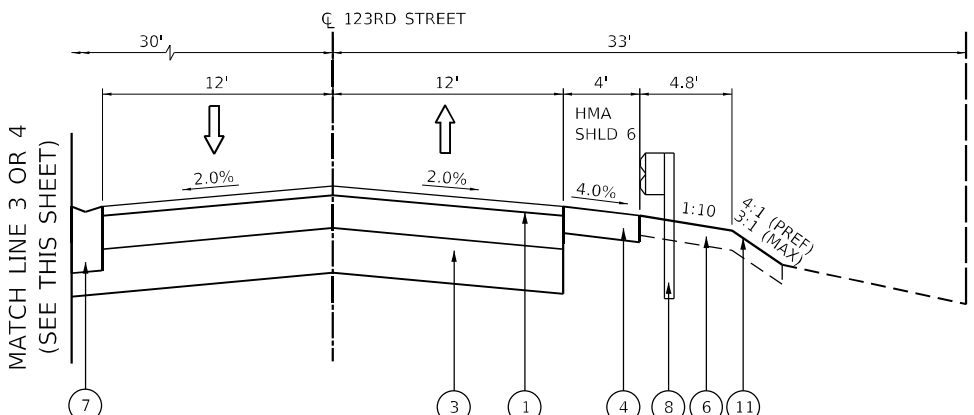
**LEGEND**

- [A] EX. HOT-MIX ASPHALT SURFACE COURSE, ± 6"
- [B] EX. PCC BASE COURSE, ± 7"
- [C] EX. COMB. CONC. CURB AND GUTTER, B-6.12 OR B-6.18
- [D] EX. AGGREGATE SHOULDER, TY B, ± 2"
- [E] EX. HOT-MIX ASPHALT SURFACE COURSE, ± 2"
- [F] EX. AGGREGATE BASE COURSE, ± 8"
- [G] EX. GUARDRAIL
- [H] EX. CULVER WING OR HEAD WALL (TO REMAIN IN PLACE)



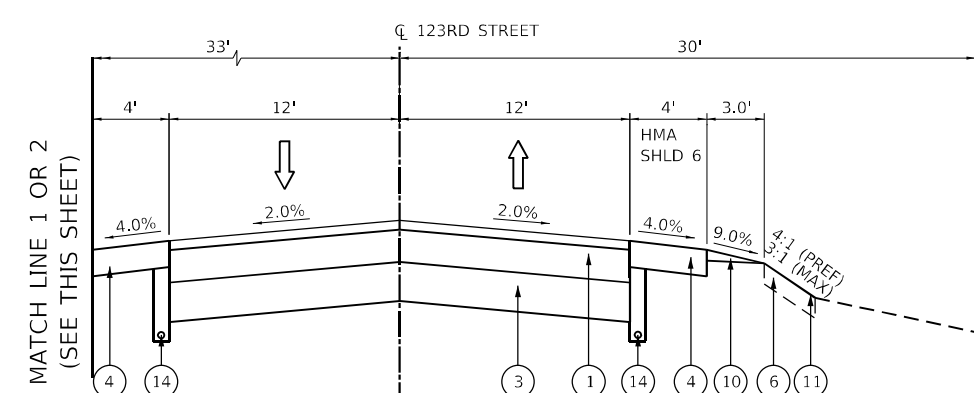
**123RD STREET (MCCARTHY ROAD)  
PROPOSED TYPICAL SECTION  
(LOOKING EAST)**

STA 113+85 TO STA 114+80



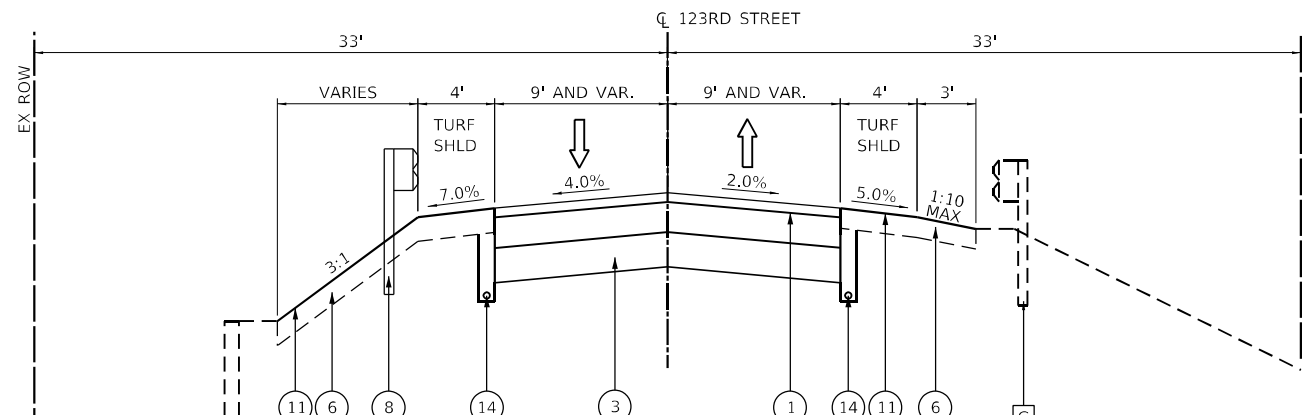
**123RD STREET (MCCARTHY ROAD)  
PROPOSED TYPICAL SECTION  
(LOOKING EAST)**

STA 124+65 TO STA 125+15



**123RD STREET (MCCARTHY ROAD)  
PROPOSED TYPICAL SECTION  
(LOOKING EAST)**

STA 114+80 TO STA 117+20



**93RD AVENUE  
PROPOSED TYPICAL SECTION  
(LOOKING NORTH)**

STA 500+12 TO STA 500+92

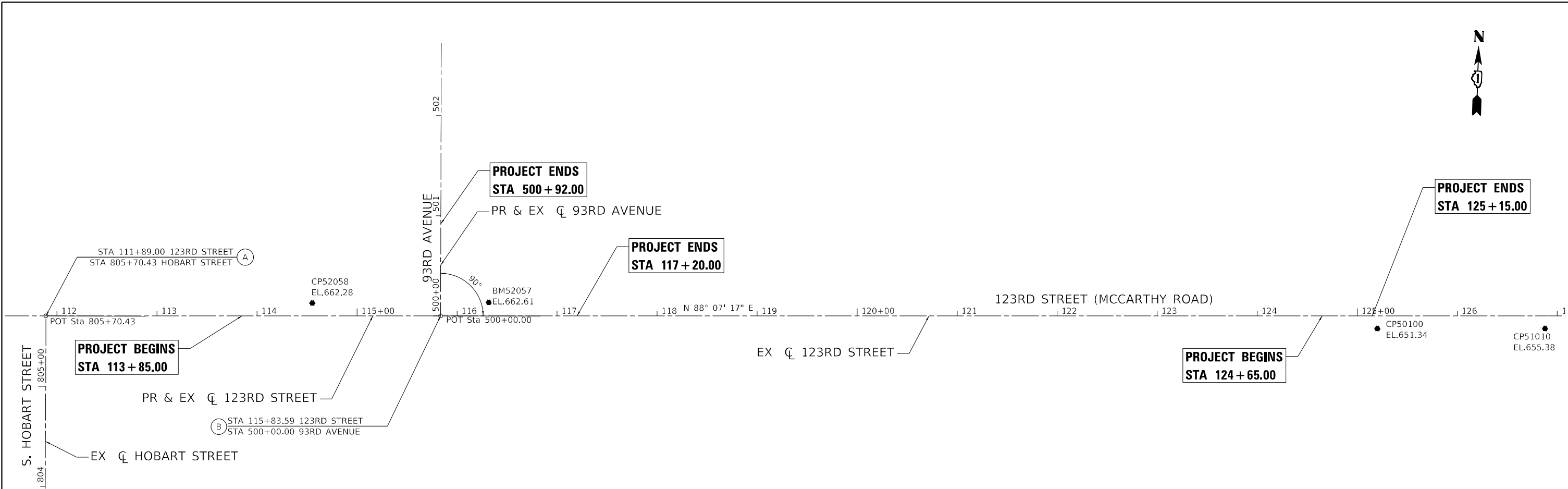
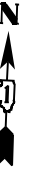
**NOTE:**

1. ITEMS SPECIFIED WITH AN ASTERISK (\*) ARE NOT PRESENT AT ALL LOCATIONS FOR DETAILS SEE ROADWAY PLANS
2. LONGITUDINAL JOINT SEALANT SHALL BE PLACED BEFORE AND AFTER THE TOP LIFT OF HMA BINDER COURSE FOR HMA PAVT (FD) 12".

- (1) PR. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"
- (2) PR. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- (3) PR. AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (4) PR. HOT-MIX ASPHALT SHOULDERS, 6"
- (5) PR. HOT-MIX ASPHALT BASE COURSE, 6"
- (6) PR. TOPSOIL FURNISH & PLACE, 4"
- (7) PR. COMB. CONC. CURB AND GUTTER, B-6.12 (DEPRESSED)
- (8) PR. GUARDRAIL (FOR DETAILS SEE ROADWAY PLANS)
- (9) PR. RETAINING WALL (FOR DETAILS SEE STRUCTURAL PLANS)
- (10) PR. AGGREGATE WEDGE SHOULDER, TYPE B
- (11) PR. SEEDING CLASS 2A
- (12) PR. SEEDING CLASS 4
- (13) PR. SODDING, SALT TOLERANT
- (14) PR. PIPE UNDERDRAINS, TYPE 3

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	PLOT SCALE = 10,0000 */ in.	DRAWN - NJ	REVISED -		1587	FAU 1587 22 CR	COOK	66	15			
PLOT DATE = 6/12/2024	CHECKED - BA	REVISED -			CONTRACT NO. 62T94							
	DATE -	REVISED -			SCALE: N.T.S	SHEET 2	OF 2 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	



PROJECT COORDINATES  
ALIGNMENT COORDINATES - 123RD STREET

123RD STREET	STATION	N	E
POB/POT	100+00.00	1821561.035	1115444.744
POT	133+23.14	1821669.978	1118766.098

PROJECT COORDINATES  
ALIGNMENT COORDINATES - HOBART STREET

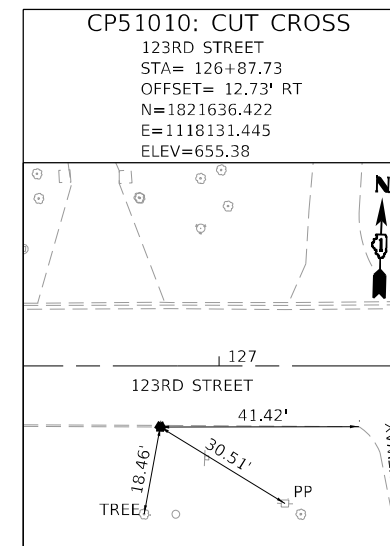
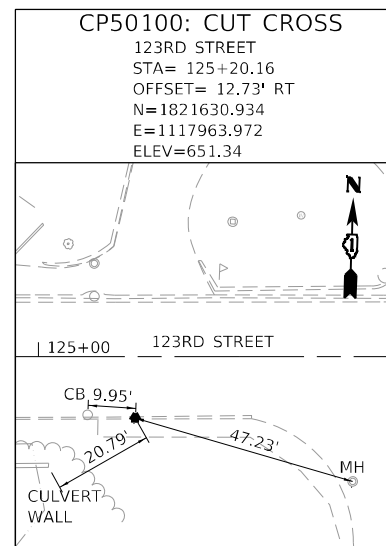
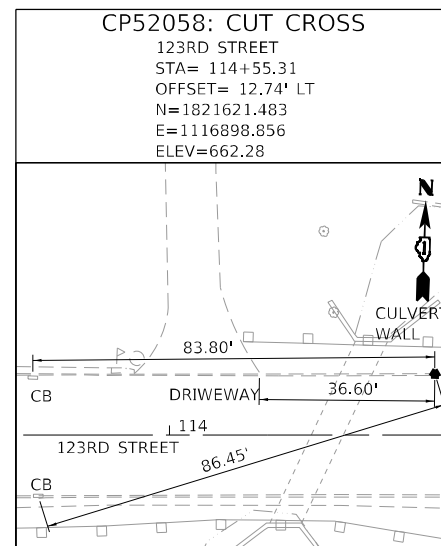
HOBART STREET	STATION	N	E
POB/POT	800+00.00	1821029.997	1116654.506
PI	803+67.16	1821396.833	1116639.076
POT	805+70.43	1821600.014	1116633.105

PROJECT COORDINATES  
ALIGNMENT COORDINATES - 93RD AVENUE

93RD STREET	STATION	N	E
POB/POT	500+00.00	1821612.95	1117027.485
POT	505+00.00	1822131.268	1117011.587

CONTROL POINTS COORDINATES  
123RD STREET

PT #	STATION	OFFSET	N	E	ELEV	DESCRIPTION
52058	114+55.31	12.74' LT	1821621.483	1116898.856	662.28	CUT CROSS
50100	125+20.16	12.73' RT	1821630.934	1117963.972	651.34	CUT CROSS
51010	126+87.73	12.73' RT	1821636.422	1118131.445	655.38	CUT CROSS



PROJECT BENCHMARKS  
123RD STREET

PT #	STATION	OFFSET	ELEV	DESCRIPTION
BM-52057	116+31.69	13.41' LT	662.61	CUT CROSS ON EAST CURB RETURN AT 123RD STREET AND 93RD AVENUE N-1821627.928 E-1117075.114

**NOTES:**

1. ALL COORDINATES SHOWN ARE BASED UPON THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, MAP COORDINATES REFLECT NAD 83 (2011)
2. ALL COORDINATE VALUES SHOWN ARE IN THE U.S. SURVEY FOOT UNITS.
3. ELEVATIONS REFLECT THE NAVD 88 (GEOID12A ADJUSTMENT).
4. SOME OR ALL OF THE CONTROL POINTS AND BENCHMARKS MAY BE DESTROYED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND RELOCATE THESE OUTSIDE OF THE CONSTRUCTION LIMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

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	USER NAME = cpujari	DESIGNED - NJ	REVISED -
	PLOT SCALE = 100,0000' / in.	DRAWN - NJ	REVISED -
	PLOT DATE = 6/12/2024	CHECKED - BA	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

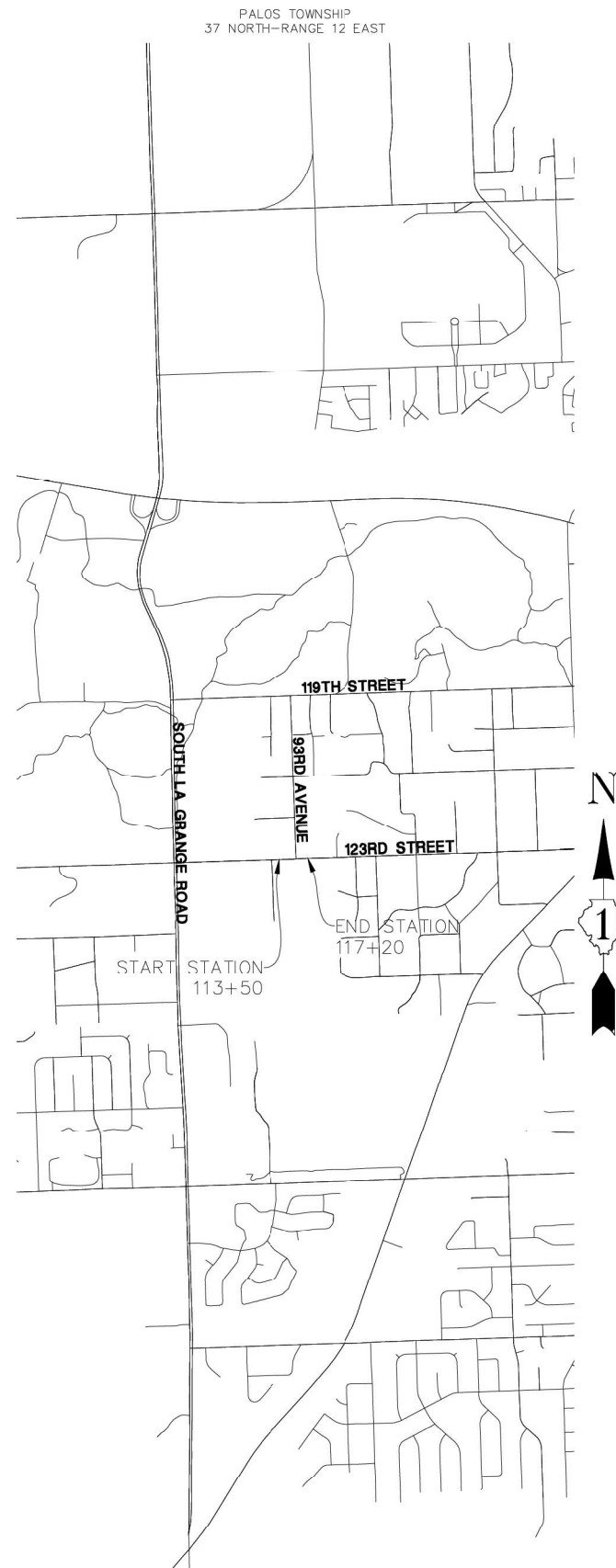
**ALIGNMENT, TIES AND BENCHMARKS  
123RD STREET & 93RD AVENUE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	16
CONTRACT NO. 62794				
ILLINOIS FED. AID PROJECT				



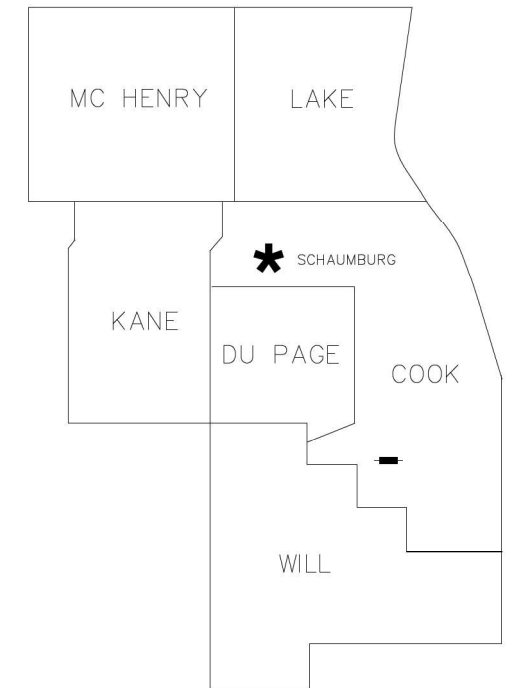
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PLAT OF HIGHWAYS**  
**ROUTE: 123RD STREET (MCCARTHY ROAD)**  
**SECTION:**  
**COUNTY: COOK**  
**LIMITS: 123RD STREET AT 93RD AVENUE**  
**JOB NO.: R-90-011-20**



**LOCATION MAP**

GROSS LENGTH 123RD STREET = 370 FT = 0.070 MILE

PARCEL NO.	OWNER	SHEET NO.	PROPERTY AQUIRED BY	PIN
0N60001TE	JOHN SANFORD MYKLEBY	2		23-27-116-004
0N60002TE	PHILIP R. SLACK AND GRACE SLACK	2		23-27-302-011
0N60003TE	THE FOREST PRESERVE DISTRICT OF COOK COUNTY	2		23-27-303-001



DISTRICT HEADQUARTERS: - \*  
 LOCATION OF SECTION INDICATED THUS: - ■

**PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS**

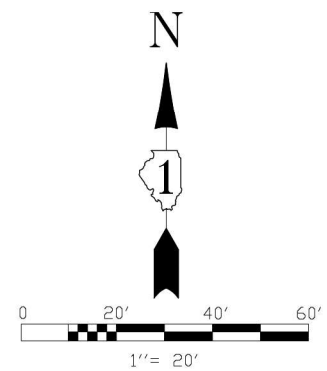
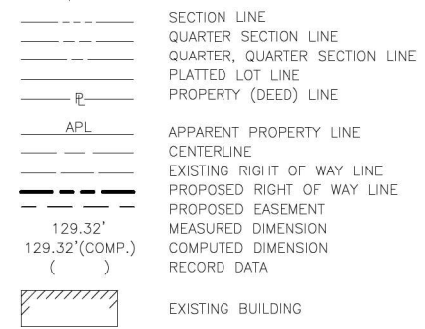
REVISED: 08/30/22 PER IDOT COMMENTS-PGA



IDOT USE ONLY

PART OF W 1/2 OF SECTION 27 TWP. 37 N., R. 12 E. OF THE THIRD P.M., IN COOK COUNTY, ILLINOIS

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. (ACRES)	REMAINDER (ACRES)	EASEMENT AREA (ACRES)	PARCEL INDEX NUMBER
0N60001TE	0.911	N/A	N/A	0.911	0.030	23-27-115-004
0N60002TE	1.142	N/A	N/A	1.142	0.027	23-27-302-011
0N60003TE	64.633	N/A	N/A	64.633	0.082	23-27-303-001



- NOTES:
- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
  - BEARINGS AND DISTANCES SHOWN ARE ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
  - ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND" TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES BY THE COMBINATION FACTOR OF 1.0000314416.
  - AREAS SHOWN ON THIS PLAT ARE GROUND.
  - ORIGINAL FIELD WORK COMPLETED JULY 11, 2022.

- IRON ROD SET
- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES, REFERENCE FOUND OR SET MONUMENTATION.
- T2 IRON ROD FLUSHED WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OR PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION, IDENTIFIED BY COLOR PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I D O T STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.
- ⊕ LIGHT STANDARD
- P.O.B. = POINT OF BEGINNING
- P.O.C. = POINT OF COMMENCEMENT

STATE OF ILLINOIS)  
COUNTY OF LAKE)

I, JAMES D. BAKER, DO HEREBY DECLARE THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27 TOWNSHIP 37 NORTH RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, ILLINOIS; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LINCOLNSHIRE, ILLINOIS THIS 21ST DAY OF MARCH, A.D., 2024.

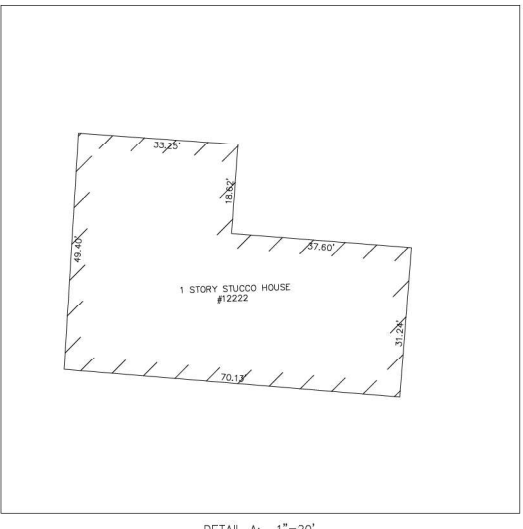
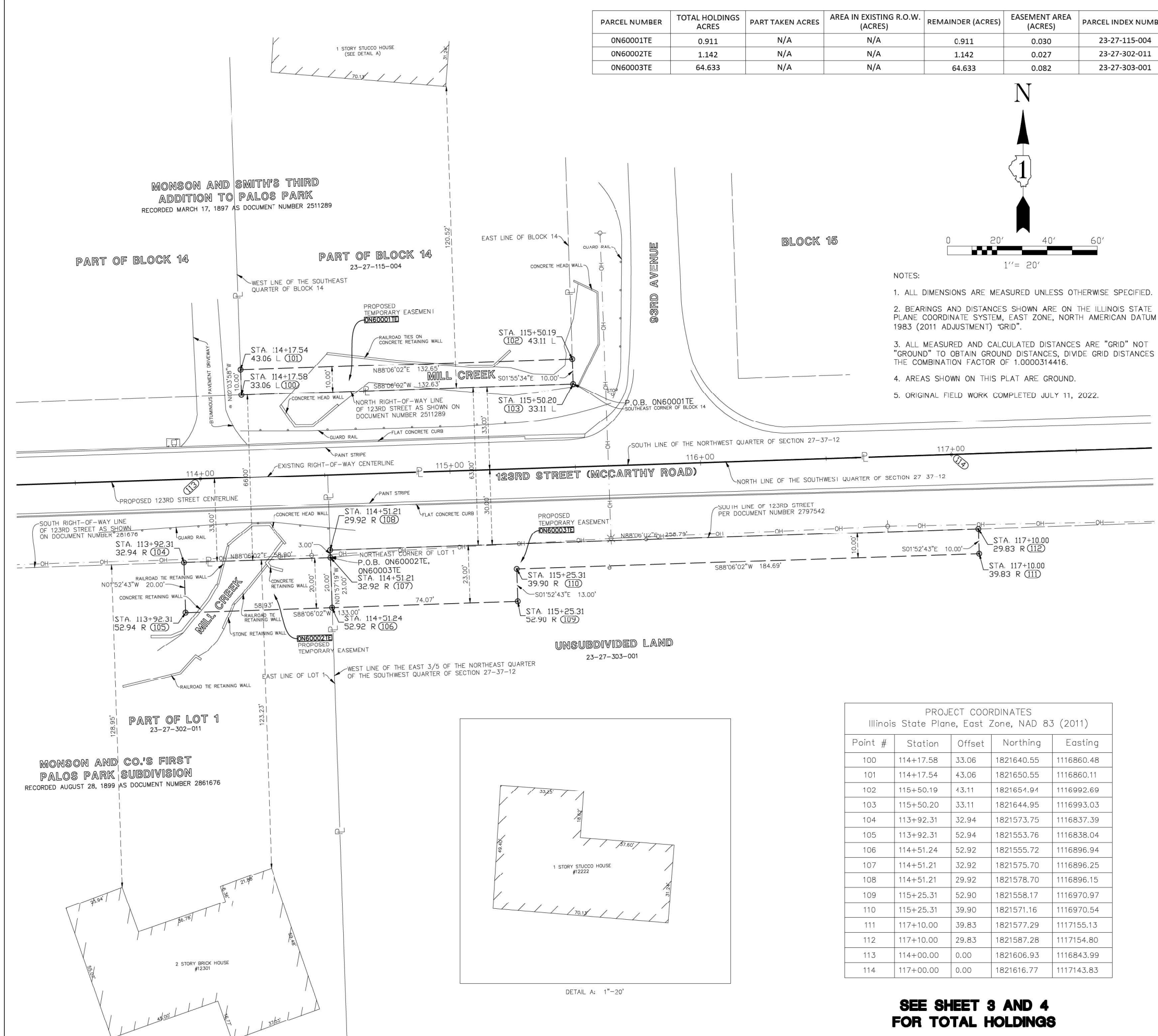
*J.D.B.*

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3648  
LICENSE EXPIRES NOVEMBER 30, 2024  
DESIGN FIRM LICENSE NO. 184003350  
LICENSE EXPIRES APRIL 30, 2025



Point #	Station	Offset	Northing	Easting
100	114+17.58	33.06	1821640.55	1116860.48
101	114+17.54	43.06	1821650.55	1116860.11
102	115+50.19	43.11	1821654.94	1116992.69
103	115+50.20	33.11	1821644.95	1116993.03
104	113+92.31	32.94	1821573.75	1116837.39
105	113+92.31	52.94	1821553.76	1116838.04
106	114+51.24	52.92	1821555.72	1116896.94
107	114+51.21	32.92	1821575.70	1116896.25
108	114+51.21	29.92	1821578.70	1116896.15
109	115+25.31	52.90	1821558.17	1116970.97
110	115+25.31	39.90	1821571.16	1116970.54
111	117+10.00	39.83	1821577.29	1117155.13
112	117+10.00	29.83	1821587.28	1117154.80
113	114+00.00	0.00	1821606.93	1116843.99
114	117+00.00	0.00	1821616.77	1117143.83

SEE SHEET 3 AND 4 FOR TOTAL HOLDINGS



REVISED: 08/30/22 PER IDOT COMMENTS-PGA

**Manhard CONSULTING LTD.**  
Civil Engineers • Surveyors • Water Resources Engineers • Water & Wastewater Engineers • Construction Managers • Environmental Scientists • Landscape Architects • Planners

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
123RD STREET

LIMITS: 123RD STREET AT 93RD AVENUE COUNTY: COOK  
SECTION: STA. 113+50 TO STA. 117+20 JOB NO.: R-90-011-20  
SCALE: 1" = 20' SHEET 2 OF 4 SHEETS

**BUREAU OF LAND ACQUISITION**  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196



- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- ▨ EXISTING BUILDING

- IRON ROD SET
- IRON PIPE OF ROD FOUND
- ⊕ CUT CROSS FOUND OR SET
- T1 THESE STAKES, REFERENCE FOUND OR SET MONUMENTATION.
- T2 IRON ROD FLUSHED WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8" IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
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- M STAKING OR PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8" IRON METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLOR PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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STATE OF ILLINOIS)  
 )SS  
 COUNTY OF LAKE)

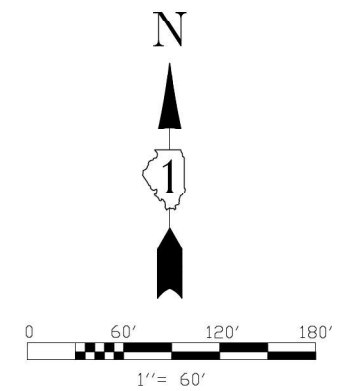
I, JAMES D. BAKER, DO HEREBY DECLARE THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27 TOWNSHIP 37 NORTH RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, ILLINOIS; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LINCOLNSHIRE, ILLINOIS THIS 21ST DAY OF MARCH, A.D., 2024.

*J.D.B.*

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3648  
 LICENSE EXPIRES NOVEMBER 30, 2024

DESIGN FIRM LICENSE NO. 184003350  
 LICENSE EXPIRES APRIL 30, 2025



- NOTES:
1. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
  2. BEARINGS AND DISTANCES SHOWN ARE ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
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  4. AREAS SHOWN ON THIS PLAT ARE GROUND.
  5. ORIGINAL FIELD WORK COMPLETED JULY 11, 2022.

REVISED: 08/30/22 PER IDOT COMMENTS-PGA

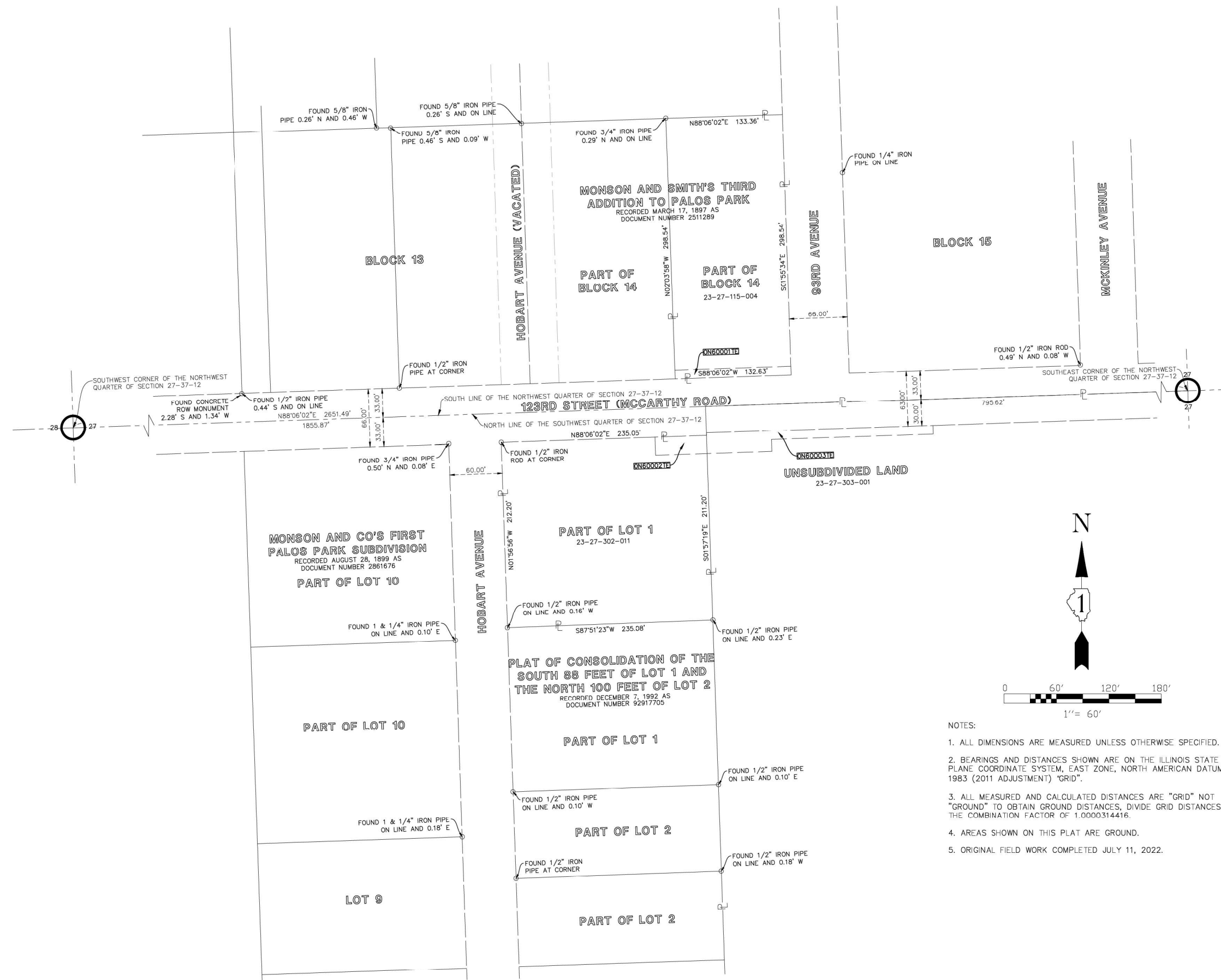


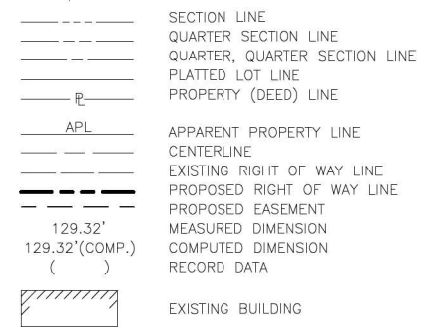
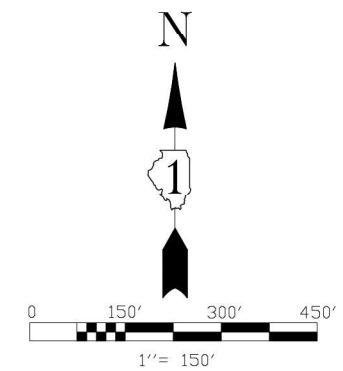
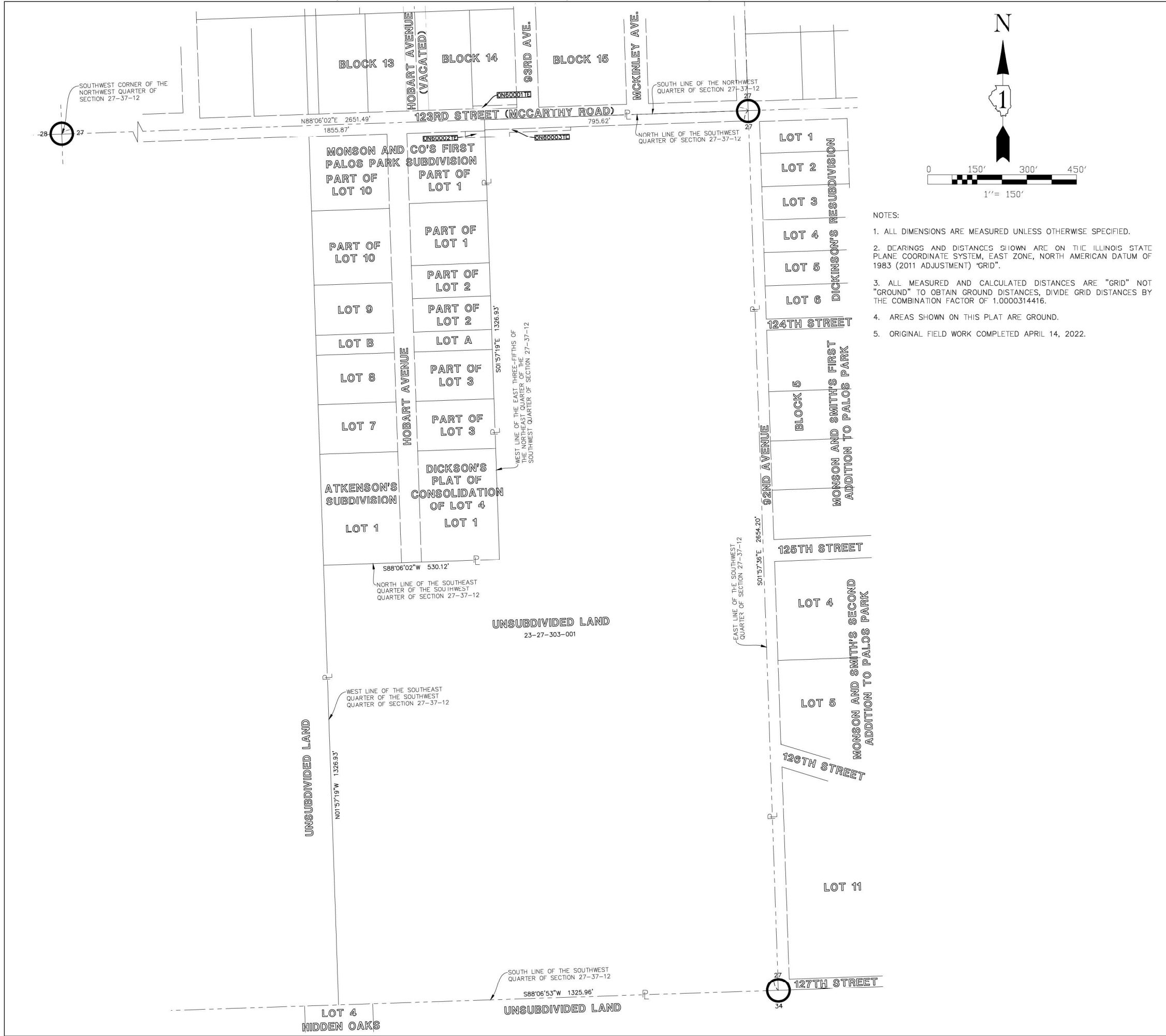
**PLAT OF HIGHWAYS**  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**123RD STREET**

**IDOT USE ONLY**

LIMITS: 123RD STREET AT 93RD AVENUE COUNTY: COOK  
 SECTION: \_\_\_\_\_ JOB NO.: R-90-011-20  
 STA. 113+50 TO STA. 117+20  
 SCALE: 1" = 60' SHEET 3 OF 4 SHEETS

**BUREAU OF LAND ACQUISITION**  
**201 WEST CENTER COURT**  
**SCHAUMBURG, ILLINOIS 60196**





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  - AREAS SHOWN ON THIS PLAT ARE GROUND.
  - ORIGINAL FIELD WORK COMPLETED APRIL 14, 2022.

- IRON ROD SET
- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES, REFERENCE FOUND OR SET MONUMENTATION.
- T2 IRON ROD FLUSHED WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- ⊕ LIGHT STANDARD
- P.O.B. = POINT OF BEGINNING
- P.O.C. = POINT OF COMMENCEMENT
- ⊙ PK NAIL SET
- ⊙ REPLACED AFTER CONSTRUCTION

STATE OF ILLINOIS)  
 )SS  
 COUNTY OF LAKE)

I, JAMES D. BAKER, DO HEREBY DECLARE THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27 TOWNSHIP 37 NORTH RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, ILLINOIS; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LINCOLNSHIRE, ILLINOIS THIS 21ST DAY OF MARCH, A.D., 2024.

*J.D.B.*

JAMES D. BAKER  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3648  
 LICENSE EXPIRES NOVEMBER 30, 2024

DESIGN FIRM LICENSE NO. 184003350  
 LICENSE EXPIRES APRIL 30, 2025



REVISED: 08/30/22 PER IDOT COMMENTS-PGA

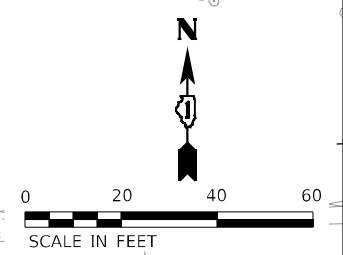
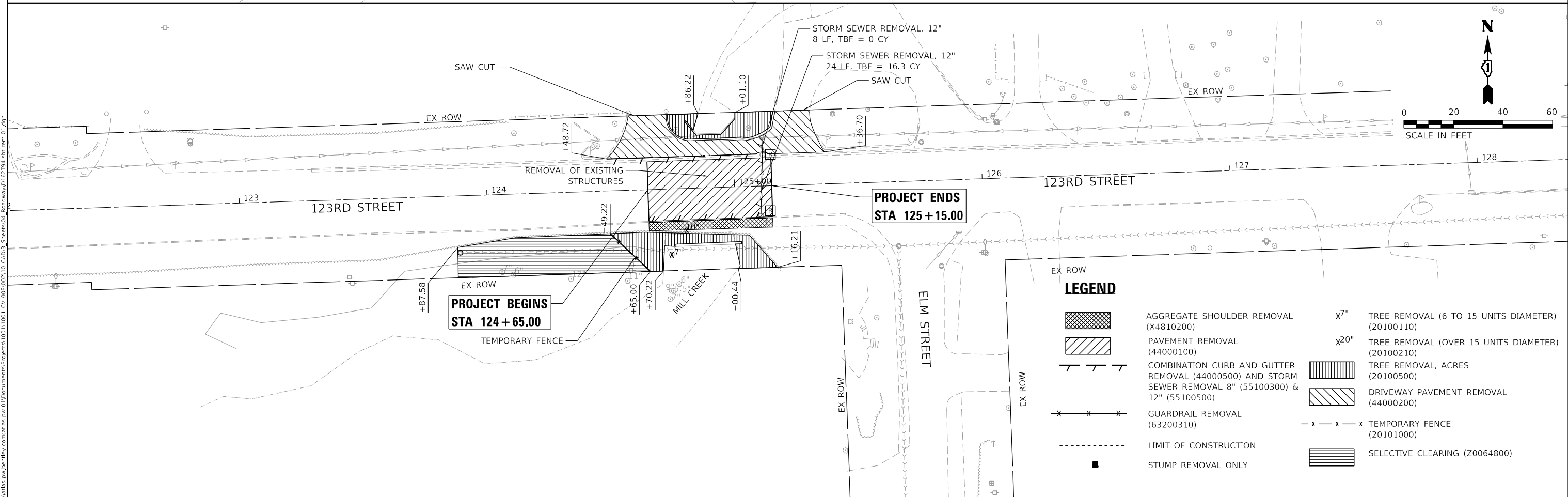
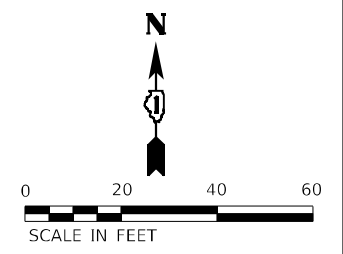
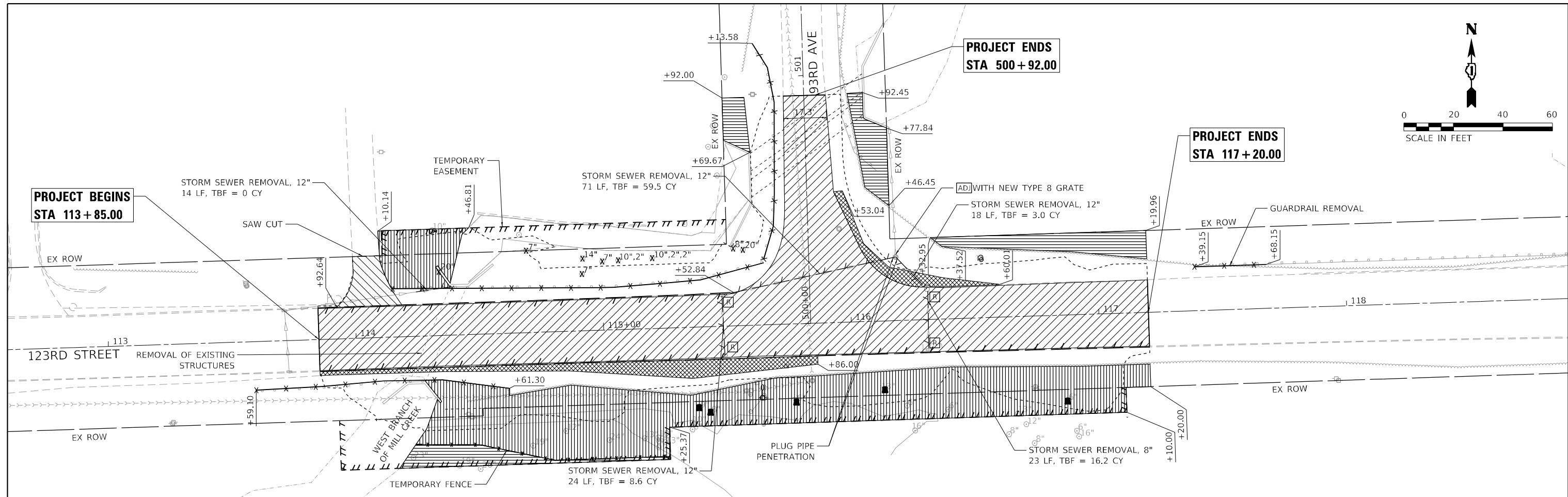


**PLAT OF HIGHWAYS**  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**123RD STREET**

**IDOT USE ONLY**

LIMITS: 123RD STREET AT 93RD AVENUE COUNTY: COOK  
 SECTION: \_\_\_\_\_ JOB NO.: R-90-011-20  
 STA. 113+50 TO STA. 117+20  
 SCALE: 1" = 100' SHEET 4 OF 4 SHEETS

**BUREAU OF LAND ACQUISITION**  
**201 WEST CENTER COURT**  
**SCHAUMBURG, ILLINOIS 60196**



**LEGEND**

	AGGREGATE SHOULDER REMOVAL (X4810200)		x7" TREE REMOVAL (6 TO 15 UNITS DIAMETER) (20100110)
	PAVEMENT REMOVAL (44000100)		x20" TREE REMOVAL (OVER 15 UNITS DIAMETER) (20100210)
	COMBINATION CURB AND GUTTER REMOVAL (44000500) AND STORM SEWER REMOVAL 8" (55100300) & 12" (55100500)		TREE REMOVAL, ACRES (20100500)
	GUARDRAIL REMOVAL (63200310)		DRIVEWAY PAVEMENT REMOVAL (44000200)
	LIMIT OF CONSTRUCTION		TEMPORARY FENCE (20101000)
	STUMP REMOVAL ONLY		SELECTIVE CLEARING (Z0064800)

**AEG ATLAS ENGINEERING GROUP, LTD.**

USER NAME = cpujari	DESIGNED - CVP	REVISED -
DRAWN - CVP	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - BA	REVISED -
PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING ROADWAY AND REMOVAL PLAN**  
**123RD STREET AND 93RD AVENUE**

SCALE: 1"=20'

SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	21
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				

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NOTE:  
FOR MORE CULVERT AND RETAINING WALL  
DETAILS SEE STRUCTURAL PLANS.

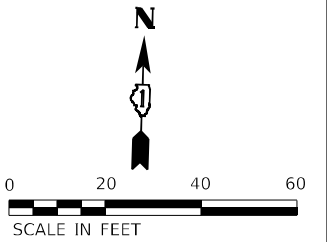
**GUARDRAIL RUN WB-1**

BEGIN TBT T1 SPL TANG  
114+20 17' LT  
END TBT T1 SPL TANG & BEGIN SPBGR TY A 6FT POSTS  
114+70 16' LT  
END SPBGR TY A 6FT POSTS & BEGIN SPBGR (SHORT RADIUS)  
115+45 16' LT  
END SPBGR (SHORT RADIUS) & BEGIN SPBGR TY A 6FT POSTS  
115+71 42' LT  
END SPBGR TY A 6FT POSTS & BEGIN TBT T1 SPL TANG  
115+71 67' LT  
END TBT T1 SPL TANG  
115+63 114' LT

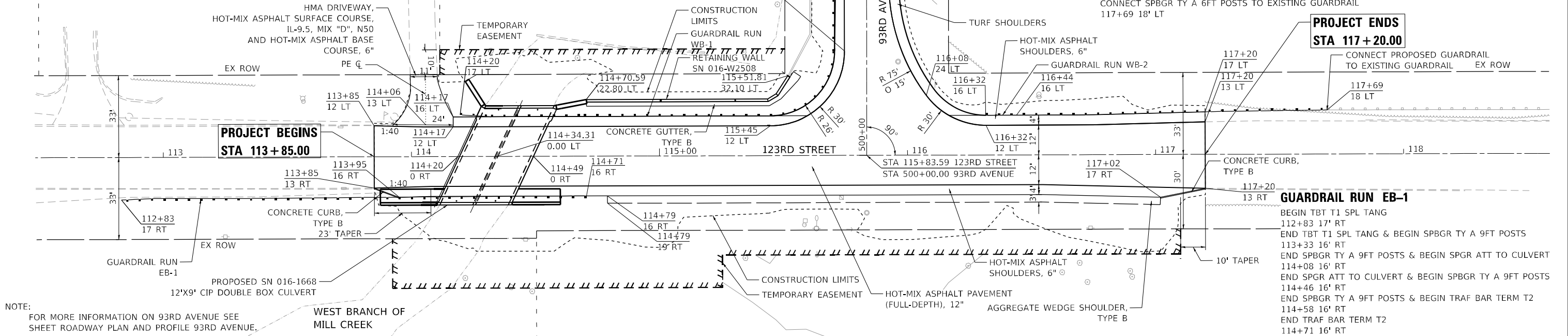
**GUARDRAIL RUN WB-2**

BEGIN TRAF BAR TERM T2  
116+32 16' LT  
END TRAF BAR TERM T2 & BEGIN SPBGR TY A 6FT POSTS  
116+44 16' LT  
CONNECT SPBGR TY A 6FT POSTS TO EXISTING GUARDRAIL  
117+69 18' LT

**PROJECT ENDS  
STA 117+20.00**

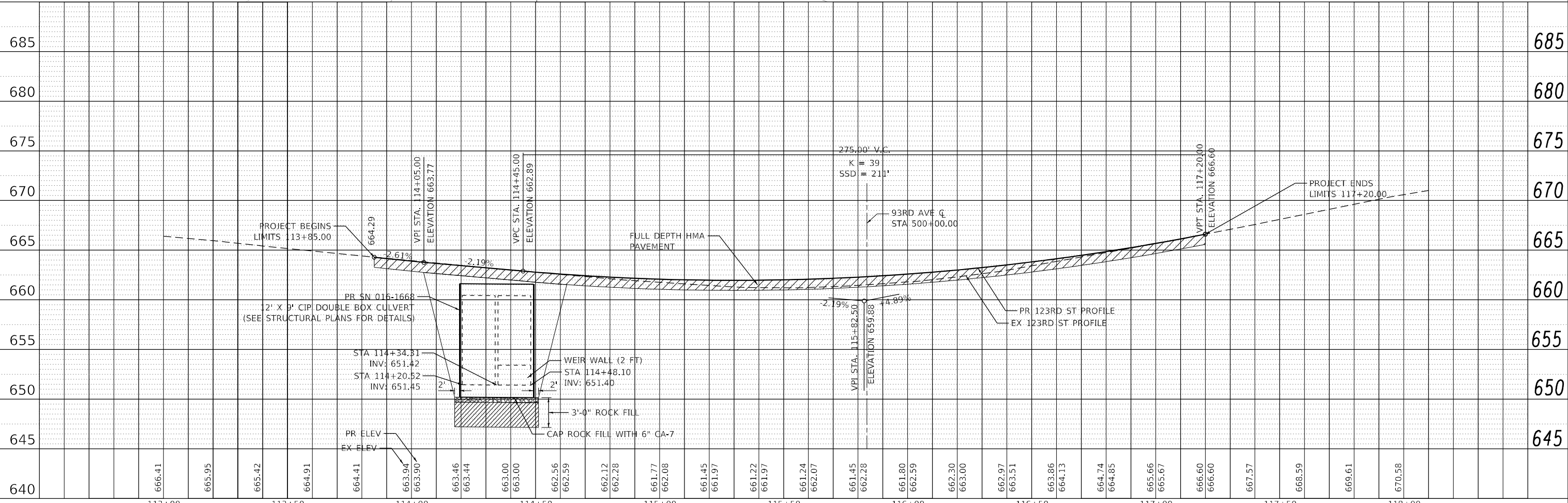


DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
DATE	
BY	
NOTE BOOK	
NO.	
CADD FILE NAME	



NOTE:  
FOR MORE INFORMATION ON 93RD AVENUE SEE  
SHEET ROADWAY PLAN AND PROFILE 93RD AVENUE.

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



640	645	650	655	660	665	670	675	680	685	
113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00	117+50	118+00

**AEG ATLAS ENGINEERING GROUP, LTD.**

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	DRAWN - CVP	REVISED -
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PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN AND PROFILE  
123RD STREET**

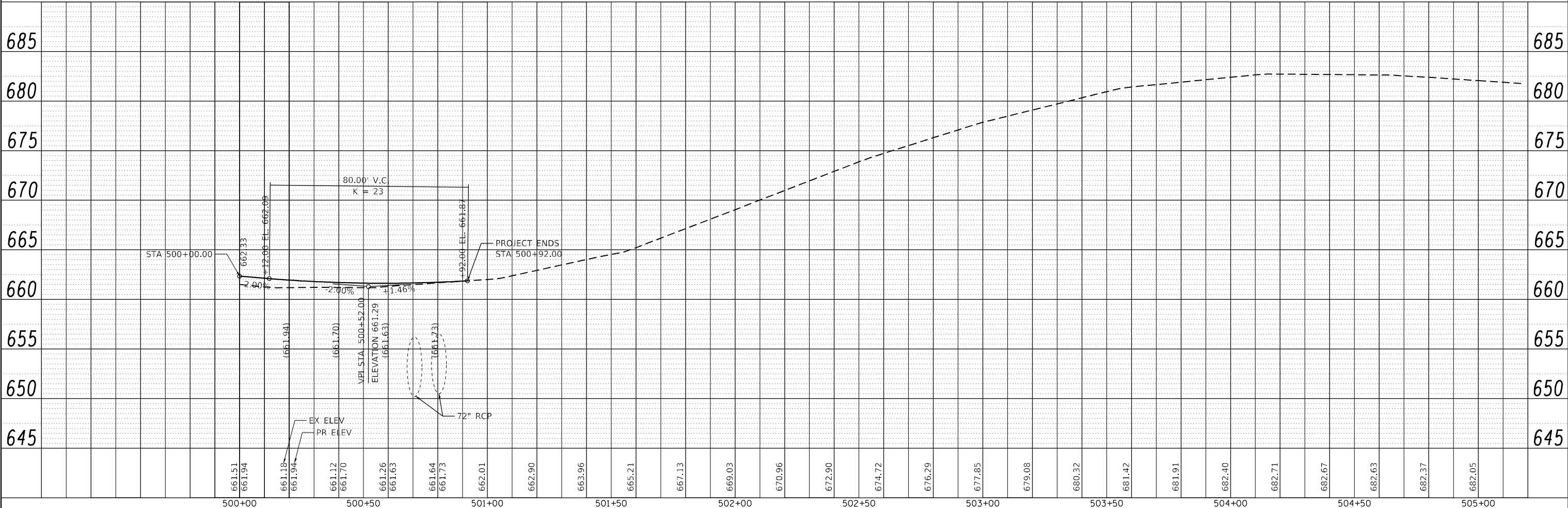
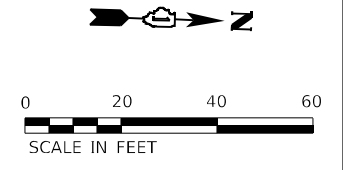
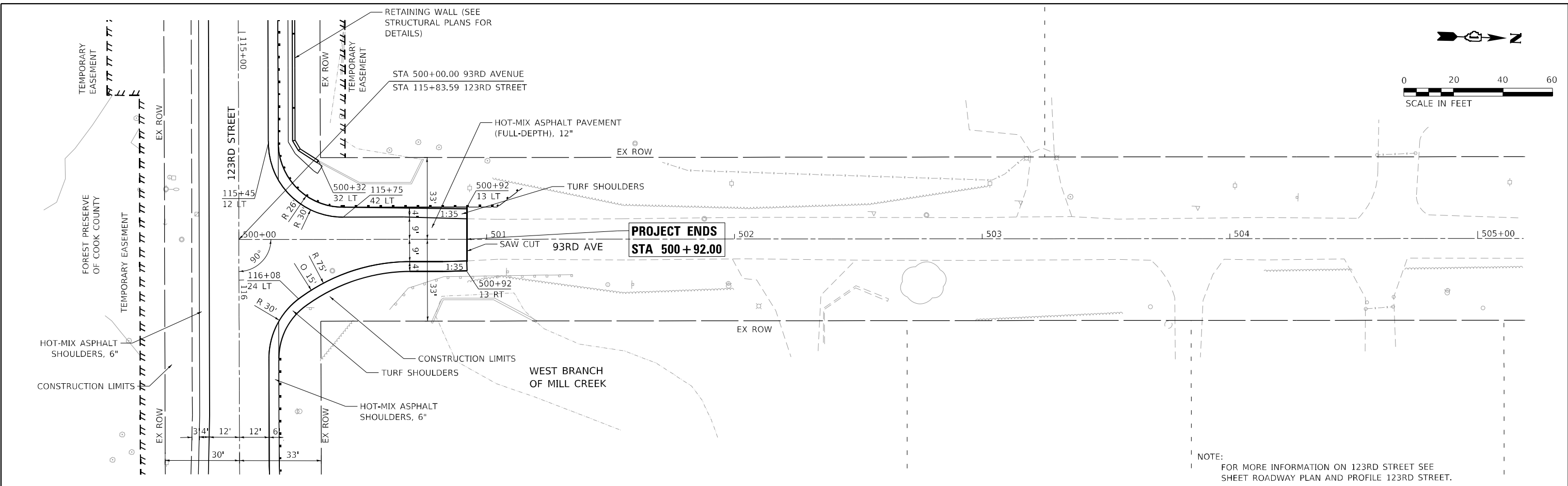
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	22
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
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	NO.	

PROFILE	SURVEYED	DATE
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 SHEET: 2  
 DATE: 6/12/2024



**AEG ATLAS ENGINEERING GROUP, LTD.**

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	DRAWN - CVP	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - BA	REVISED -
PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN AND PROFILE  
 93RD AVENUE**

SCALE: 1" = 20'    SHEET 2 OF 3 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	23
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				





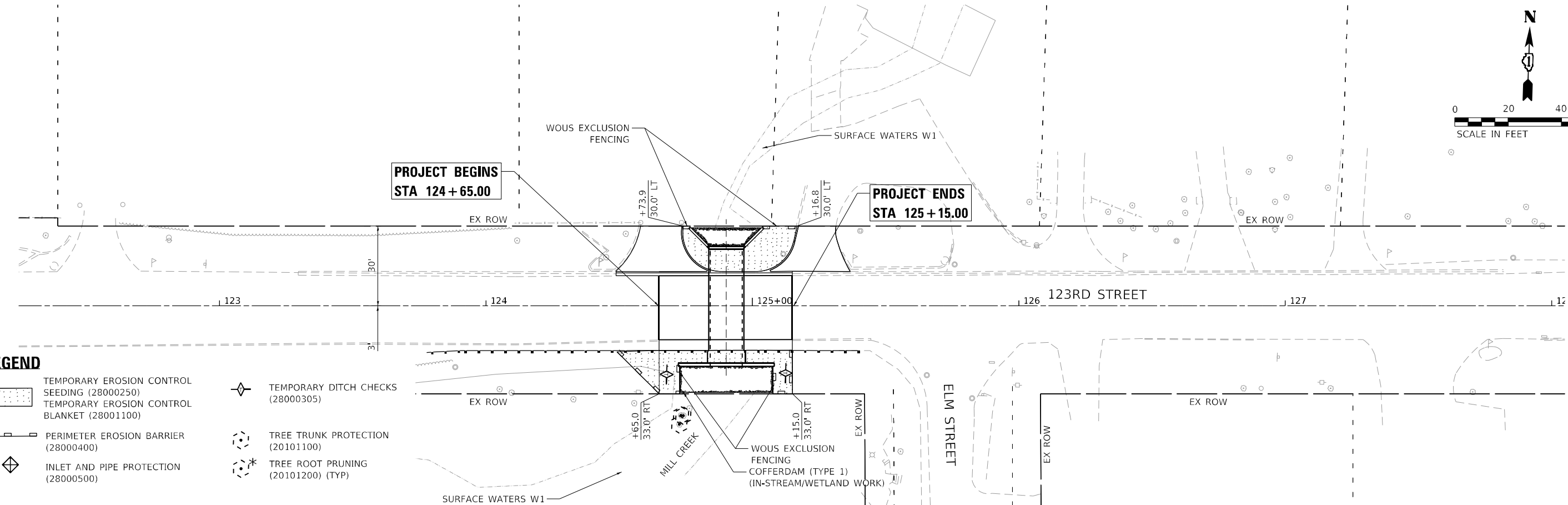
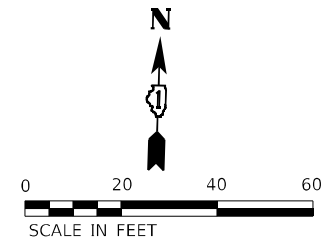
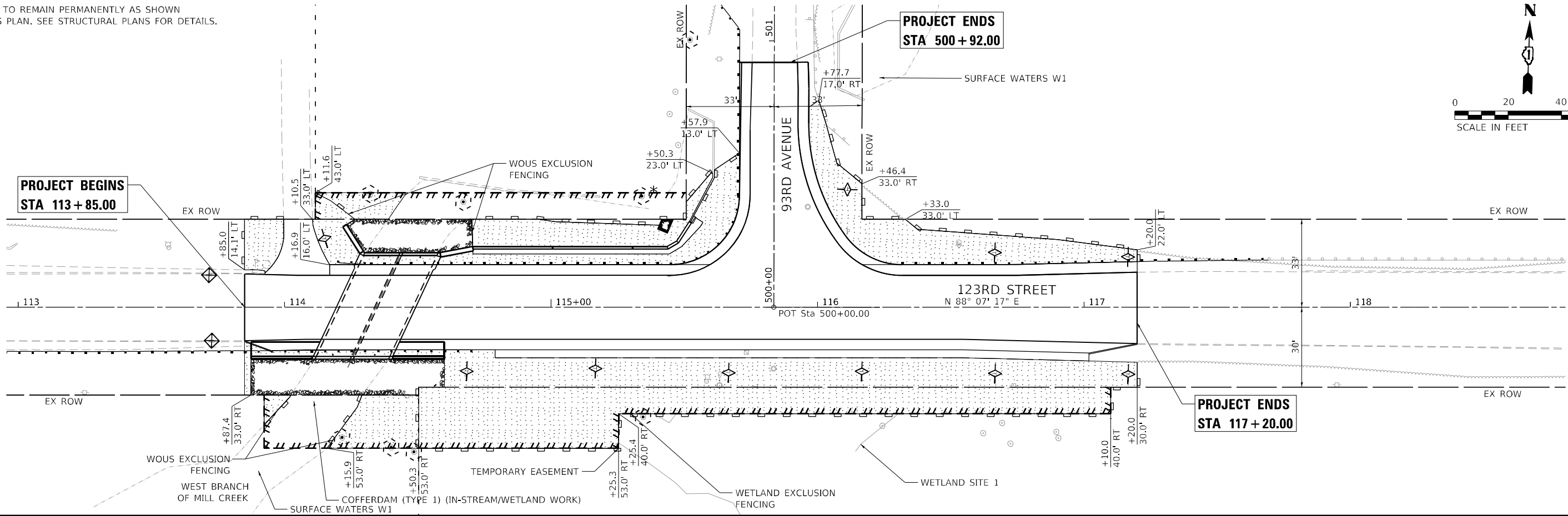
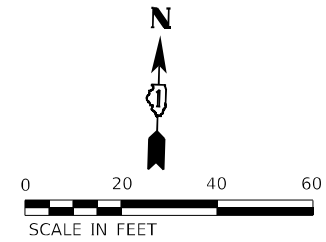
## EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT:  
([HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL](http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control)).
2. THE CONTRACTOR WILL ASSUME THE RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
4. THE CONTRACTOR SHALL PROVIDE THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN THE RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
5. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
6. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
7. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
8. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.
9. "THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT, FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS, WHICH WILL BE PAID FOR AS COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH ."

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	PLOT SCALE = 40,0000 * / in.	CHECKED - BA	REVISED -			1587	FAU 1587 22 CR	COOK	66	25
PLOT DATE = 6/12/2024	DATE -	REVISED -	CONTRACT NO. 62T94							
			SCALE: N.T.S.    SHEET 1 OF 2 SHEETS    STA.    TO STA.    ILLINOIS    FED. AID PROJECT							

NOTE:  
RIP-RAP TO REMAIN PERMANENTLY AS SHOWN  
ON THIS PLAN. SEE STRUCTURAL PLANS FOR DETAILS.



**LEGEND**

- TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- PERIMETER EROSION BARRIER (28000400)
- INLET AND PIPE PROTECTION (28000500)
- TEMPORARY DITCH CHECKS (28000305)
- TREE TRUNK PROTECTION (20101100)
- TREE ROOT PRUNING (20101200) (TYP)

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**AEG ATLAS ENGINEERING GROUP, LTD.**

USER NAME = cpujari  
PLOT SCALE = 40,0000 \*/ in.  
PLOT DATE = 6/12/2024

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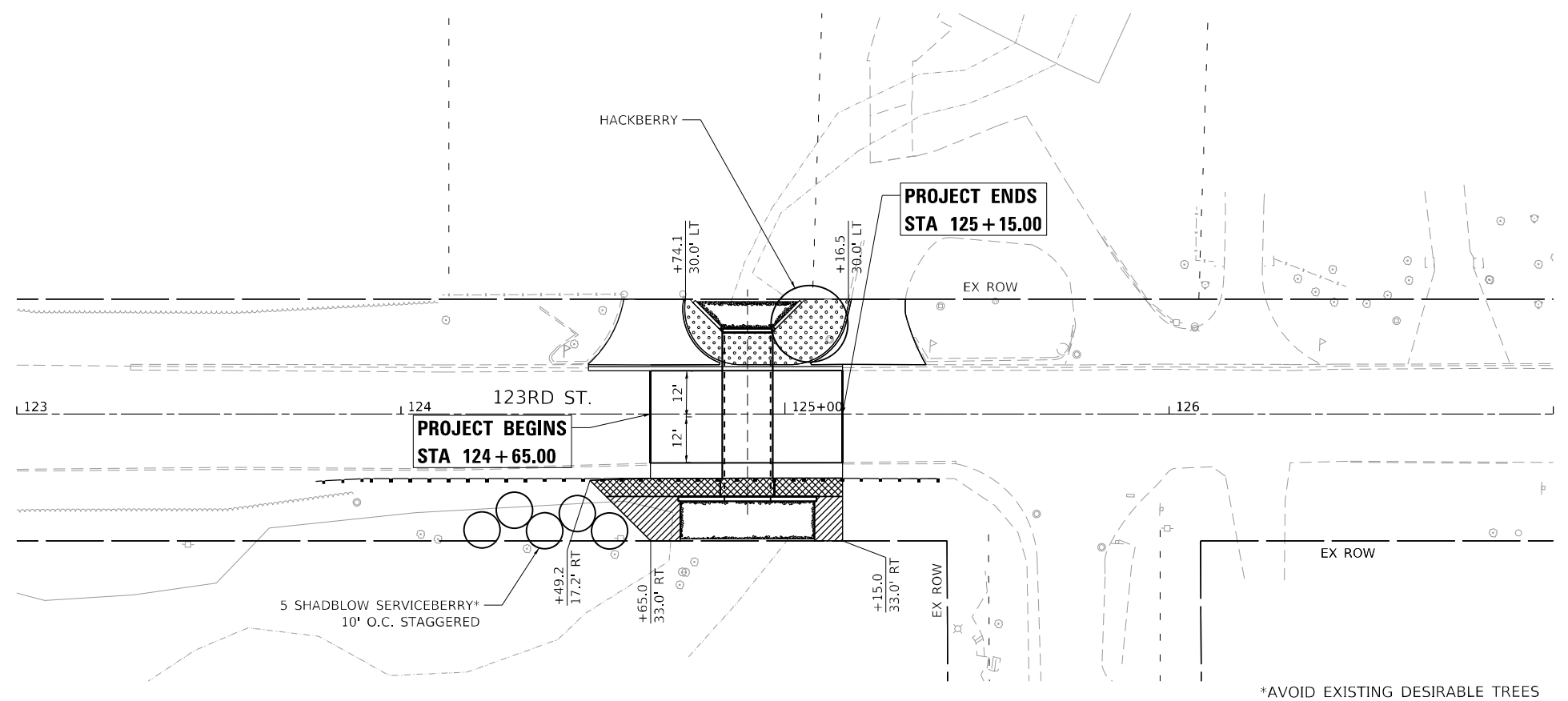
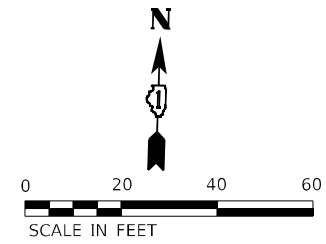
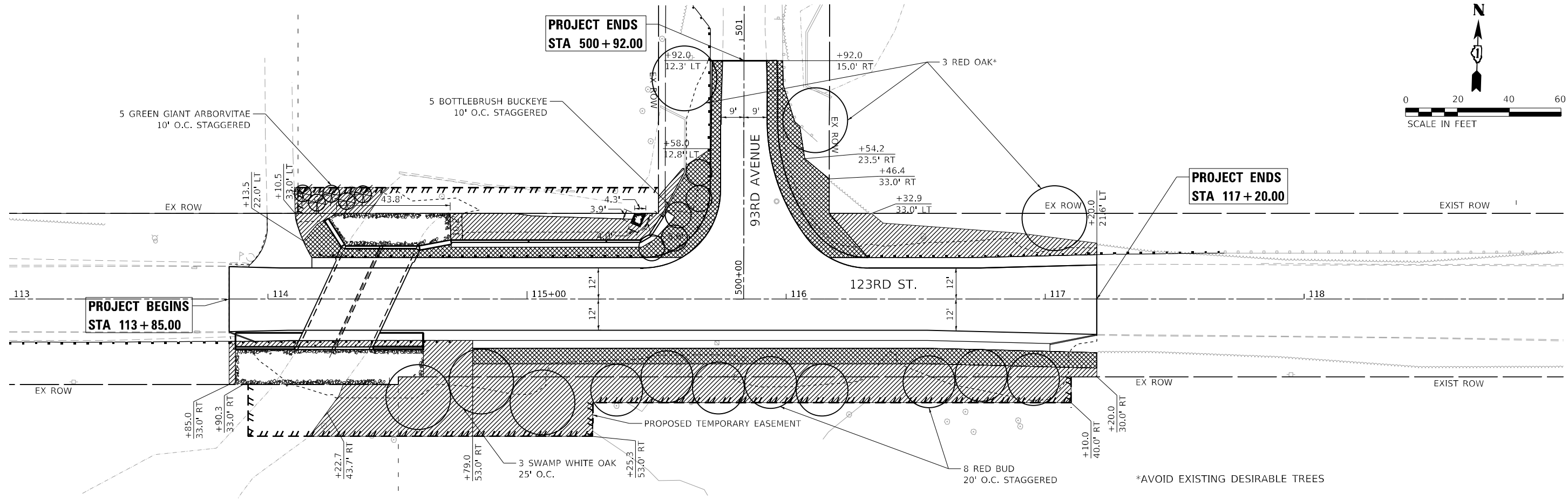
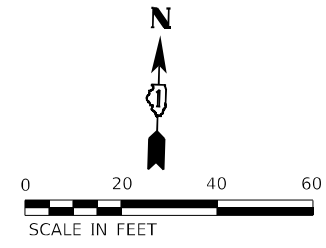
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN  
123RD STREET AND 93RD AVENUE**

SCALE: 1"=20'    SHEET 2 OF 2 SHEETS    STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	26
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				



**LEGEND**

	SEEDING, CLASS 2A (25000210) EROSION CONTROL BLANKET (25100630)
	SEEDING, CLASS 4A (25000312) EROSION CONTROL BLANKET (25100630)
	SODDING, SALT TOLERANT (25200110)
	STONE RIPRAP, CLASS A4 (28100107)
	LIMIT OF CONSTRUCTION

\*AVOID EXISTING DESIRABLE TREES

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**AEG ATLAS ENGINEERING GROUP, LTD.**

USER NAME = cpujari	DESIGNED - NKA	REVISED -
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PLOT SCALE = 40,0000 */ in.	CHECKED - BA	REVISED -
PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
123RD STREET AND 93RD AVENUE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	27
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				

STRUCTURE NO.	STA.	OFFSET FT	STRUCTURE TYPE	RIM/EOP	INVERTS
S1-1 FV	114+22	17.6' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	663.00	657.80 12" NE 657.95 EX 12" SW
S1-2	115+55	32.0' LT	CATCH BASIN TYPE C, TYPE 24 FRAME AND GRATE	658.30	654.16 12" S
S1-3	115+55	24.4' LT	MANHOLE, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSE LID	660.40	652.49 12" NW 654.10 12" N
S1-4	115+44	32.0' LT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"		652.46 12" SE

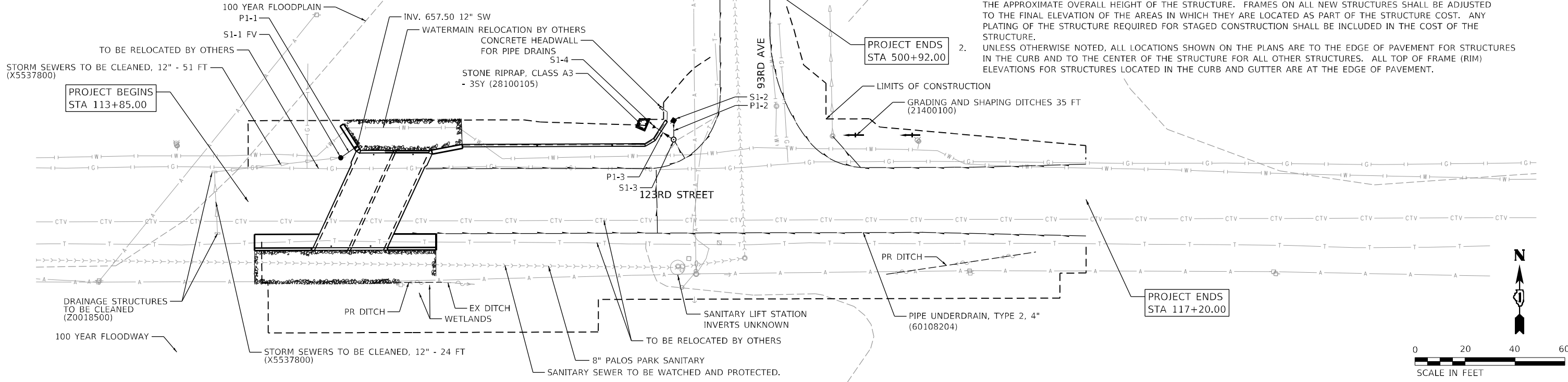
PIPE NO.	FROM	TO	PIPE TYPE	LENGTH FT	SLOPE %	TRENCH BACKFILL CU YD
P1-1	S1-1 FV	O-1	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	10	3.00%	0.0
P1-2	S1-2	S1-3	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	4	2.00%	0.0
P1-3	S1-3	S1-4	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	6	0.50%	0.0

THE LOCATION OF S1-1 FV IS APPROXIMATE AND WILL NEED TO BE FIELD VERIFIED AS THE EXISTING STORM SEWER OUTLET TO THE CREEK WAS NOT FOUND.

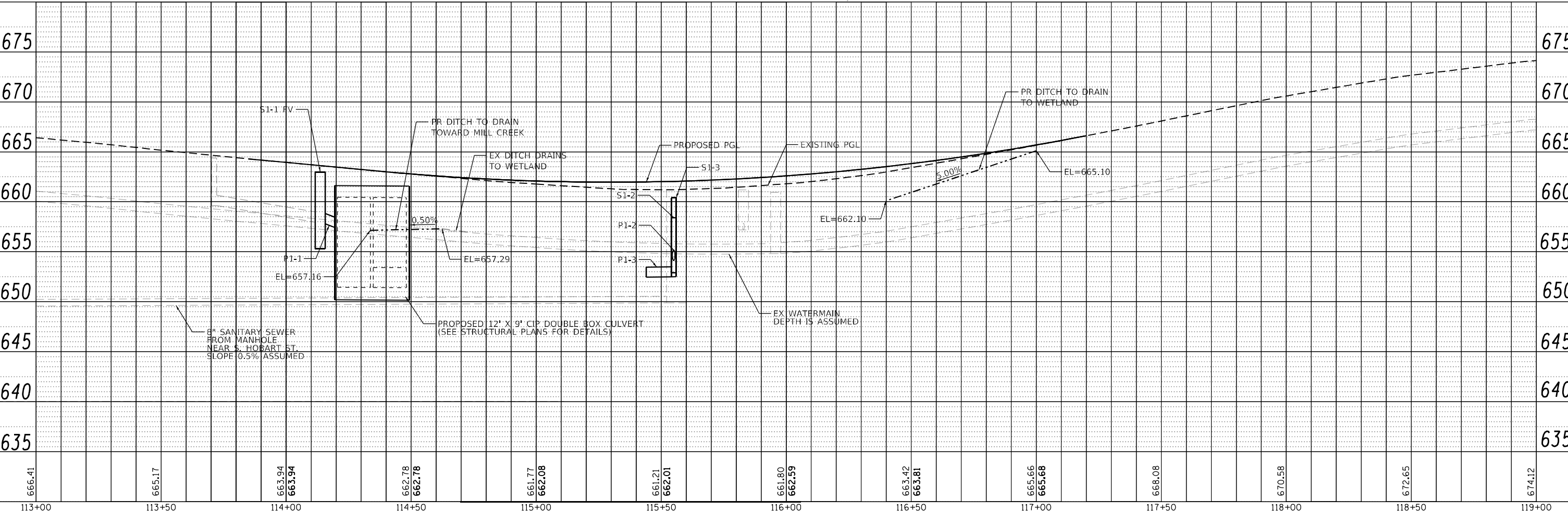
NOTES:

- TOP OF FRAME (RIM) ELEVATIONS SHOWN 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 AREAS IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST. ANY PLATING OF THE STRUCTURE REQUIRED FOR STAGED CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.
- UNLESS OTHERWISE NOTED, ALL LOCATIONS SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT FOR STRUCTURES IN THE CURB AND TO THE CENTER OF THE STRUCTURE FOR ALL OTHER STRUCTURES. ALL TOP OF FRAME (RIM) ELEVATIONS FOR STRUCTURES LOCATED IN THE CURB AND GUTTER ARE AT THE EDGE OF PAVEMENT.

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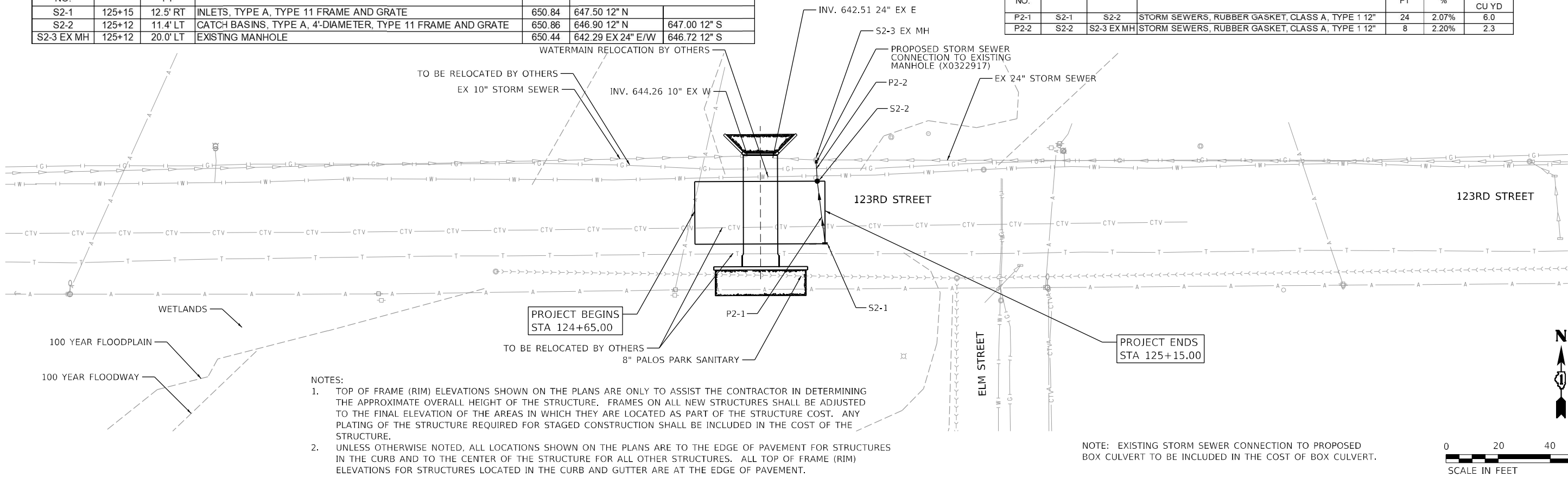
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	USER NAME = cpujari	DESIGNED - AMM	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE PLAN</b> <b>123RD STREET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40,0000' / in.	CHECKED - FMA	REVISED -			1587	FAU 1587 22 CR	COOK	66	28	
	PLOT DATE = 6/12/2024	DATE - 10-10-2023	REVISED -			CONTRACT NO. 62T94			ILLINOIS FED. AID PROJECT		
						SCALE: 1" = 20'	SHEET 1 OF 2 SHEETS	STA.	TO STA.		

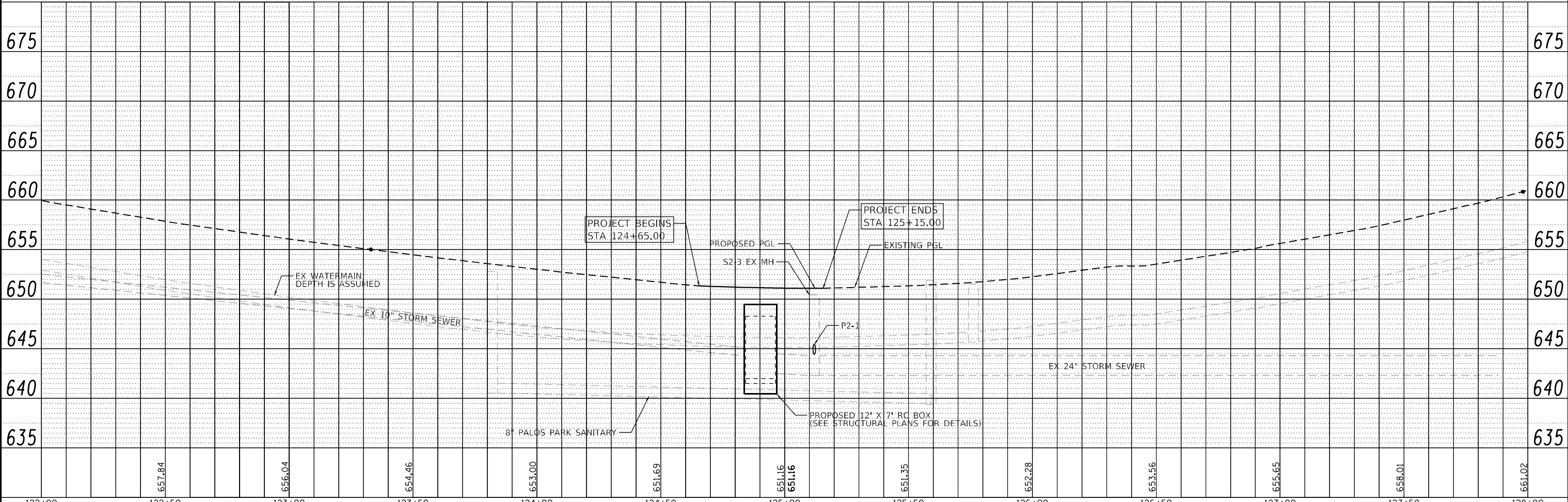
STRUCTURE NO.	STA.	OFFSET FT	STRUCTURE TYPE	RIM/EOP	INVERTS
S2-1	125+15	12.5' RT	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	650.84	647.50 12" N
S2-2	125+12	11.4' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	650.86	646.90 12" N 647.00 12" S
S2-3 EX MH	125+12	20.0' LT	EXISTING MANHOLE	650.44	642.29 EX 24" E/W 646.72 12" S

PIPE NO.	FROM	TO	PIPE TYPE	LENGTH FT	SLOPE %	TRENCH BACKFILL CU YD
P2-1	S2-1	S2-2	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	24	2.07%	6.0
P2-2	S2-2	S2-3 EX MH	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	8	2.20%	2.3



- NOTES:
- TOP OF FRAME (RIM) ELEVATIONS SHOWN 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 AREAS IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST. ANY PLATING OF THE STRUCTURE REQUIRED FOR STAGED CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.
  - UNLESS OTHERWISE NOTED, ALL LOCATIONS SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT FOR STRUCTURES IN THE CURB AND TO THE CENTER OF THE STRUCTURE FOR ALL OTHER STRUCTURES. ALL TOP OF FRAME (RIM) ELEVATIONS FOR STRUCTURES LOCATED IN THE CURB AND GUTTER ARE AT THE EDGE OF PAVEMENT.

NOTE: EXISTING STORM SEWER CONNECTION TO PROPOSED BOX CULVERT TO BE INCLUDED IN THE COST OF BOX CULVERT.



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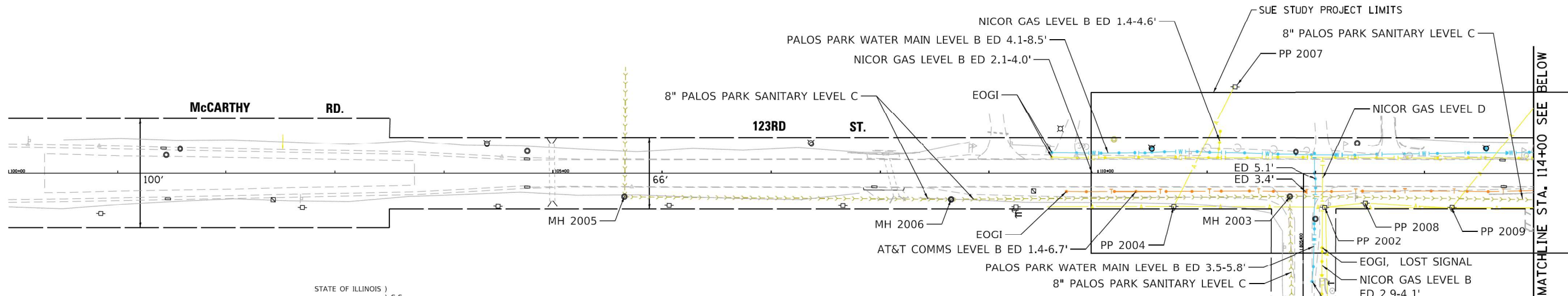
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PLOT DATE = 6/12/2024	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN  
123RD STREET**

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	29
CONTRACT NO. 62T94			ILLINOIS FED. AID PROJECT	



STATE OF ILLINOIS )  
 ) S.S.  
 COUNTY OF COOK )

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPICTED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS C/ASCE 38-02 FOR QUALITY LEVEL B (QLB) AND QUALITY LEVEL C (QLC). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 29TH DAY OF JUNE, 2022 AND THE 19TH DAY OF AUGUST, 2022.

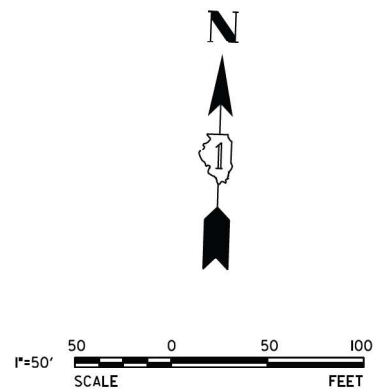
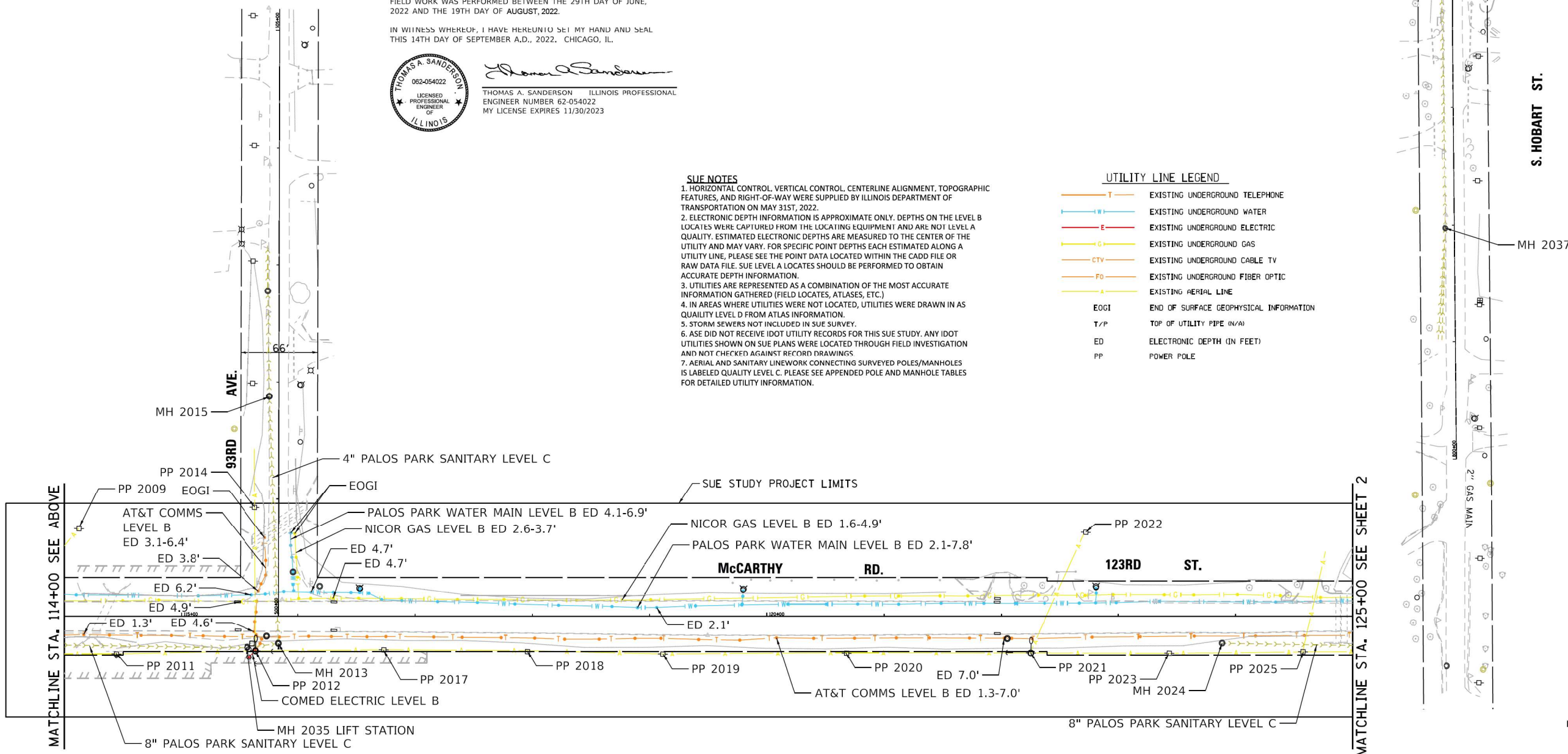
IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 14TH DAY OF SEPTEMBER A.D., 2022. CHICAGO, IL.



*Thomas A. Sanderson*  
 THOMAS A. SANDERSON ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022 MY LICENSE EXPIRES 11/30/2023

- SUE NOTES**
- HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON MAY 31ST, 2022.
  - ELECTRONIC DEPTH INFORMATION IS APPROXIMATE ONLY. DEPTHS ON THE LEVEL B LOCATES WERE CAPTURED FROM THE LOCATING EQUIPMENT AND ARE NOT LEVEL A QUALITY. ESTIMATED ELECTRONIC DEPTHS ARE MEASURED TO THE CENTER OF THE UTILITY AND MAY VARY. FOR SPECIFIC POINT DEPTHS EACH ESTIMATED ALONG A UTILITY LINE, PLEASE SEE THE POINT DATA LOCATED WITHIN THE CADD FILE OR RAW DATA FILE. SUE LEVEL A LOCATES SHOULD BE PERFORMED TO OBTAIN ACCURATE DEPTH INFORMATION.
  - UTILITIES ARE REPRESENTED AS A COMBINATION OF THE MOST ACCURATE INFORMATION GATHERED (FIELD LOCATES, ATLAS, ETC.)
  - IN AREAS WHERE UTILITIES WERE NOT LOCATED, UTILITIES WERE DRAWN IN AS QUALITY LEVEL D FROM ATLAS INFORMATION.
  - STORM SEWERS NOT INCLUDED IN SUE SURVEY.
  - ASE DID NOT RECEIVE IDOT UTILITY RECORDS FOR THIS SUE STUDY. ANY IDOT UTILITIES SHOWN ON SUE PLANS WERE LOCATED THROUGH FIELD INVESTIGATION AND NOT CHECKED AGAINST RECORD DRAWINGS.
  - AERIAL AND SANITARY LINWORK CONNECTING SURVEYED POLES/MANHOLES IS LABELED QUALITY LEVEL C. PLEASE SEE APPENDED POLE AND MANHOLE TABLES FOR DETAILED UTILITY INFORMATION.

- UTILITY LINE LEGEND**
- EXISTING UNDERGROUND TELEPHONE
  - EXISTING UNDERGROUND WATER
  - EXISTING UNDERGROUND ELECTRIC
  - EXISTING UNDERGROUND GAS
  - EXISTING UNDERGROUND CABLE TV
  - EXISTING UNDERGROUND FIBER OPTIC
  - EXISTING AERIAL LINE
  - EOGI END OF SURFACE GEOPHYSICAL INFORMATION
  - T/P TOP OF UTILITY PIPE (N/A)
  - ED ELECTRONIC DEPTH (IN FEET)
  - PP POWER POLE



	USER NAME = #USER#	DESIGNED - CM	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>UTILITY SUE SHEET</b> <b>123RD STREET (McCARTHY ROAD),</b> <b>HOBART STREET, AND 93RD AVE.</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - MM	REVISED -		1587	FAU 1587 22 CR	COOK	66	30		
PLOT DATE = #DATE#	CHECKED - TS	DATE 09/14/2022	REVISED -	SCALE: 1" = 50'	SHEET 1 OF 3 SHEETS	STA. 100+00.00 TO STA. 125+00.00	PROJ. NO. P-91-080-16		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS )  
 ) S.S.  
 COUNTY OF COOK )

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPICTED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL B (QLB) AND QUALITY LEVEL C (QLC). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 29TH DAY OF JUNE, 2022 AND THE 19TH DAY OF AUGUST, 2022.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 14TH DAY OF SEPTEMBER A.D. 2022. CHICAGO, IL.



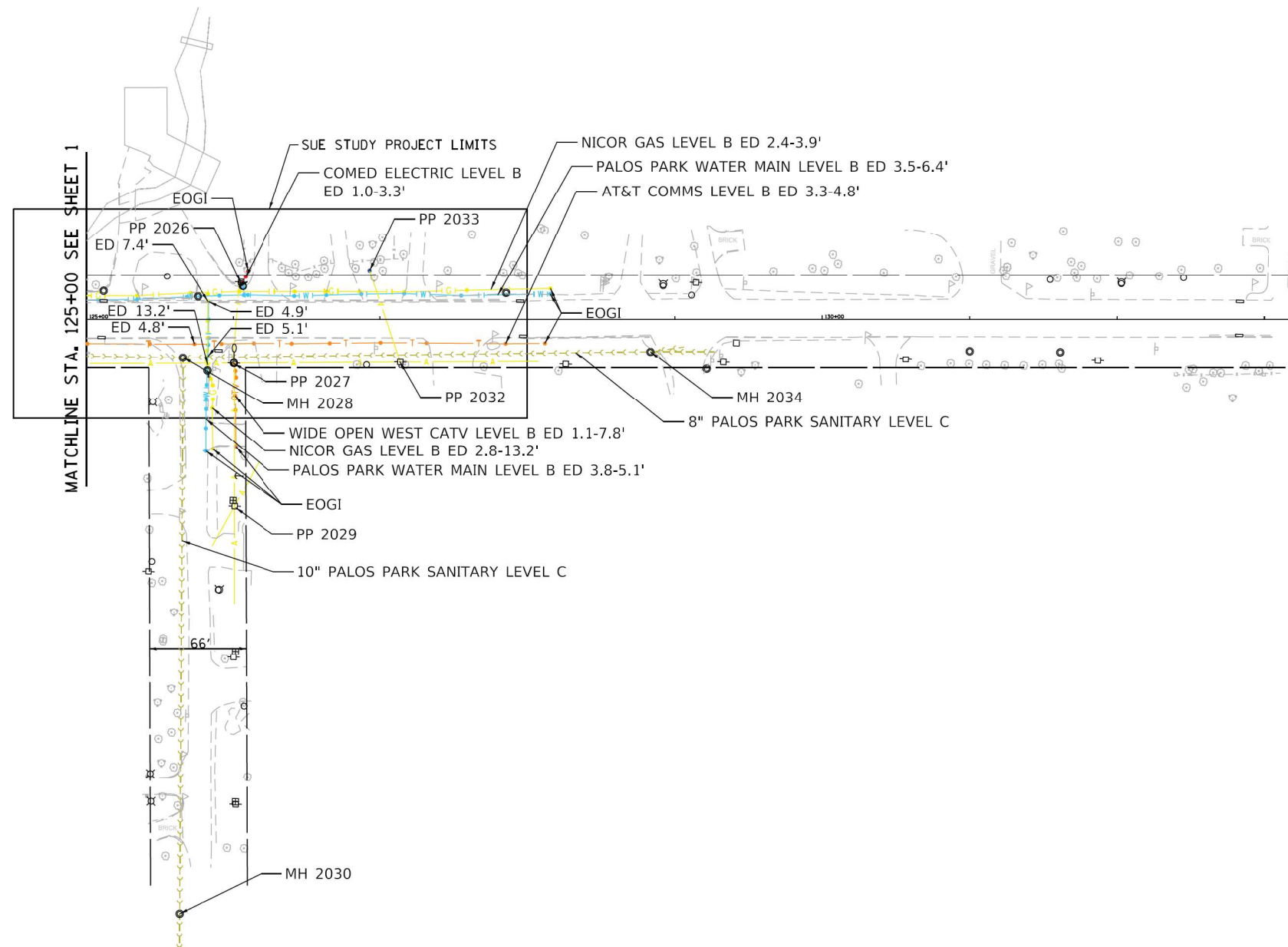
*Thomas A. Sanderson*  
 THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL  
 ENGINEER NUMBER 62-054022  
 MY LICENSE EXPIRES 11/30/2023

**SUE NOTES**

- HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON MAY 31ST, 2022.
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- IN AREAS WHERE UTILITIES WERE NOT LOCATED, UTILITIES WERE DRAWN IN AS QUALITY LEVEL D FROM ATLAS INFORMATION.
- STORM SEWERS NOT INCLUDED IN SUE SURVEY.
- ASE DID NOT RECEIVE IDOT UTILITY RECORDS FOR THIS SUE STUDY. ANY IDOT UTILITIES SHOWN ON SUE PLANS WERE LOCATED THROUGH FIELD INVESTIGATION AND NOT CHECKED AGAINST RECORD DRAWINGS.
- AERIAL AND SANITARY LINework CONNECTING SURVEYED POLES/MANHOLES IS LABELED QUALITY LEVEL C. PLEASE SEE APPENDED POLE AND MANHOLE TABLES FOR DETAILED UTILITY INFORMATION.

**UTILITY LINE LEGEND**

- EXISTING UNDERGROUND TELEPHONE
- EXISTING UNDERGROUND WATER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND GAS
- EXISTING UNDERGROUND CABLE TV
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING AERIAL LINE
- END OF SURFACE GEOPHYSICAL INFORMATION
- TOP OF UTILITY PIPE (IN/A)
- ELECTRONIC DEPTH (IN FEET)
- POWER POLE



USER NAME = #USER#	DESIGNED - CM	REVISED -
	DRAWN - MM	REVISED -
PLOT SCALE = #SCALE#	CHECKED - TS	REVISED -
PLOT DATE = #DATE#	DATE - 09/14/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**UTILITY SUE SHEET**  
**123RD STREET (McCARTHY ROAD),**  
**HOBART STREET, AND 93RD AVE.**  
 SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. 125+00 TO STA. 133+23.14

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	31
PROJ. NO. P-91-080-16			ILLINOIS FED. AID PROJECT	

Pole Number	Northing	Easting	Ground Elevation	Utilities on Pole	Survey Comments
2001	1821484.55	1116658.37	663.23	(1) ComEd Electric, (1) AT&T Comms, (2) AT&T CATV, (1) Ameritech CATV	
2002	1821569.16	1116653.54	666.59	(3) ComEd Electric, (2) AT&T Comms, (2) AT&T CATV, (1) Ameritech CATV, (1) WOW Comms	Street Light and Stop Sign Attachments
2004	1821565.59	1116514.65	666.84	(2) ComEd Electric, (1) AT&T Comms, (2) AT&T CATV	Transformer Attachment
2007	1821677.16	1116567.14	672.05	(1) ComEd Electric, (1) WOW Comms	Utility Box Attachment
2008	1821574.41	1116690.87	665.35	(1) ComEd Electric	Transformer Switch Attachment
2009	1821573.11	1116770.32	659.65	(2) ComEd Electric, (1) AT&T Comms, (1) AT&T CATV, (1) WOW Comms	Transformer Attachment
2010	1821682.08	1116854.1	671.12	(1) ComEd Electric	
2011	1821576.38	1116889.47	658.90	(3) ComEd Electric, (1) AT&T Comms, (1) AT&T CATV, (1) WOW Comms	2 Transformer Attachments
2012	1821582.89	1117008.88	660.47	(4) ComEd Electric, (1) AT&T Comms, (1) AT&T CATV, (1) WOW Comms, (1) Ameritech CATV	Street Light Attachment
2014	1821705.22	1117003.98	660.95	(1) ComEd Electric, (1) AT&T Comms, (1) AT&T CATV, (1) Ameritech CATV	
2017	1821587.42	1117118.16	665.31	(1) ComEd Electric, (1) WOW Comms, (1) AT&T CATV, (1) Ameritech CATV	
2018	1821589.89	1117240.6	672.45	(1) ComEd Electric, (1) WOW Comms, (1) AT&T CATV, (1) Ameritech CATV	
2019	1821591.61	1117356.17	675.54	(1) ComEd Electric, (1) WOW Comms, (1) AT&T CATV, (1) Ameritech CATV	
2020	1821597.49	1117512.57	668.16	(1) ComEd Electric, (1) WOW Comms, (1) AT&T CATV, (1) Ameritech CATV	
2021	1821602.87	1117669.51	656.08	(3) ComEd Electric, (1) WOW Comms, (1) AT&T Comms, (1) AT&T CATV, (1) Ameritech CATV	Street Light Attachment
2022	1821707.16	1117713.5	664.56	(1) ComEd Electric	
2023	1821606.54	1117787.98	651.74	(2) ComEd Electric, (1) AT&T CATV, (1) WOW Comms, (1) Ameritech CATV	Transformer Attachment
2025	1821611.5	1117901.91	646.24	(3) ComEd Electric, (3) AT&T CATV, (1) WOW Comms, (1) Ameritech CATV, (1) AT&T Comms	Utility Box Attachment
2026	1821671.94	1118047.72	652.07	(1) ComEd Electric, (1) AT&T Comms	
2027	1821616.58	1118044.59	653.41	(4) ComEd Electric, (6) AT&T Comms, (1) WOW Comms, (2) AT&T CATV, (1) Ameritech CATV	
2029	1821519.57	1118048.4	664.06	(4) ComEd Electric, (6) AT&T Comms, (2) AT&T CATV	
2032	1821620.88	1118158.13	657.46	(3) ComEd Electric, (3) AT&T Comms, (1) WOW Comms, (2) AT&T CATV, (1) Ameritech CATV	Transformer Attachment
2033	1821682.75	1118135.22	653.91	(1) ComEd Electric, (1) AT&T Comms, (1) AT&T CATV	Could not access pole, shot overhead wire
N/A	N/A	N/A	N/A	(1) ComEd Electric, (2) AT&T CATV	Pole Tag 719, could not get survey shot

Structure No.	2003	Comment:	0	Rim Elev.	Bott. Elev.	Type	Size	Material	Condition	Lid Type				
Inv. Elevation	1821578.21	1116620.66	667.29	649.37	649.37	SAN MH	48	Precast	Excellent	Closed				
Pipe No. 1	649.37	649.32	649.32	Pipe No. 2	649.32	Pipe No. 3	649.32	Pipe No. 4	Pipe No. 5	Pipe No. 6	Pipe No. 7	Pipe No. 8	Pipe No. 9	Pipe No. 10
Material	Plastic	Plastic	Plastic											
Pipe Dia. (inch)	8	8	8											
Direction	W	E	S											
Connects To	2006	Lift Station	2037											
Condition Comment														
Structure No.	2005	Comment:	Standing Debris in Structure, no pipes visible	Rim Elev.	Bott. Elev.	Type	Size	Material	Condition	Lid Type				
Inv. Elevation	1821558.03	1116010.56	667.24	657.54	#N/A	SAN MH	48	Precast	Excellent	Closed				
Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4	Pipe No. 5	Pipe No. 6	Pipe No. 7	Pipe No. 8	Pipe No. 9	Pipe No. 10	Pipe No. 10				
Material														
Pipe Dia. (inch)														
Direction														
Connects To														
Condition Comment														
Structure No.	2006	Comment:	0	Rim Elev.	Bott. Elev.	Type	Size	Material	Condition	Lid Type				
Inv. Elevation	1821565.36	1116310.38	665.45	653.55	SAN MH	48	Precast	Satisfactory	Closed					
Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4	Pipe No. 5	Pipe No. 6	Pipe No. 7	Pipe No. 8	Pipe No. 9	Pipe No. 10					
Material														
Pipe Dia. (inch)														
Direction														
Connects To	2005	2003												
Condition Comment														
Structure No.	2013	Comment:	Forceman Lift Station Connection	Rim Elev.	Bott. Elev.	Type	Size	Material	Condition	Lid Type				
Inv. Elevation	1821589.88	1117028.16	661.33	656.88	SAN MH	48	Precast	Satisfactory	Closed					
Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4	Pipe No. 5	Pipe No. 6	Pipe No. 7	Pipe No. 8	Pipe No. 9	Pipe No. 10					
Material														
Pipe Dia. (inch)														
Direction	N	W												
Connects To	2015	Lift Station												
Condition Comment														
Structure No.	2015	Comment:	0	Rim Elev.	Bott. Elev.	Type	Size	Material	Condition	Lid Type				
Inv. Elevation	1821800.44	1117013.55	668.26	662.26	SAN MH	48	Precast	Satisfactory	Closed					
Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4	Pipe No. 5	Pipe No. 6	Pipe No. 7	Pipe No. 8	Pipe No. 9	Pipe No. 10					
Material														
Pipe Dia. (inch)														
Direction	N	S												
Connects To	2013													
Condition Comment		Forceman												
Structure No.	2024	Comment:	0	Rim Elev.	Bott. Elev.	Type	Size	Material	Condition	Lid Type				
Inv. Elevation	1821618.52	1117832.72	652.67	640.31	SAN MH	48	Precast	Excellent	Closed					
Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4	Pipe No. 5	Pipe No. 6	Pipe No. 7	Pipe No. 8	Pipe No. 9	Pipe No. 10					
Material														
Pipe Dia. (inch)														
Direction	E													
Connects To	2028													
Condition Comment														
Structure No.	2028	Comment:	0	Rim Elev.	Bott. Elev.	Type	Size	Material	Condition	Lid Type				
Inv. Elevation	1821619.14	1118009.67	651.74	639.73	SAN MH	48	Precast	Satisfactory	Closed					
Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4	Pipe No. 5	Pipe No. 6	Pipe No. 7	Pipe No. 8	Pipe No. 9	Pipe No. 10					
Material														
Pipe Dia. (inch)														
Direction	W	E	S											
Connects To	2024	2030	2034											
Condition Comment														
Structure No.	2030	Comment:	0	Rim Elev.	Bott. Elev.	Type	Size	Material	Condition	Lid Type				
Inv. Elevation	1821241.89	1118019.79	663.18	637.98	SAN MH	48"	Precast	Satisfactory	Closed					
Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4	Pipe No. 5	Pipe No. 6	Pipe No. 7	Pipe No. 8	Pipe No. 9	Pipe No. 10					
Material														
Pipe Dia. (inch)														
Direction	N	S												
Connects To	2028													
Condition Comment														
Structure No.	2034	Comment:	0	Rim Elev.	Bott. Elev.	Type	Size	Material	Condition	Lid Type				
Inv. Elevation	1821633.57	1118327.38	667.51	649.61	SAN MH	48"	Precast	Satisfactory	Closed					
Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4	Pipe No. 5	Pipe No. 6	Pipe No. 7	Pipe No. 8	Pipe No. 9	Pipe No. 10					
Material														
Pipe Dia. (inch)														
Direction	W	E	E											
Connects To	2028													
Condition Comment			Pipe Sealed											
Structure No.	2037	Comment:	0	Rim Elev.	Bott. Elev.	Type	Size	Material	Condition	Lid Type				
Inv. Elevation	1821226.583	1116638.233	672.233	651.50	SAN MH	48"	Precast	Satisfactory	Closed					
Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4	Pipe No. 5	Pipe No. 6	Pipe No. 7	Pipe No. 8	Pipe No. 9	Pipe No. 10					
Material														
Pipe Dia. (inch)														
Direction	N	S	S											
Connects To	2003													
Condition Comment														

STATE OF ILLINOIS )  
 ) S.S.  
 COUNTY OF COOK )

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPICTED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CIASCE 38-02 FOR QUALITY LEVEL B (QLB) AND QUALITY LEVEL C (QLC). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 29TH DAY OF JUNE, 2022 AND THE 19TH DAY OF AUGUST, 2022.

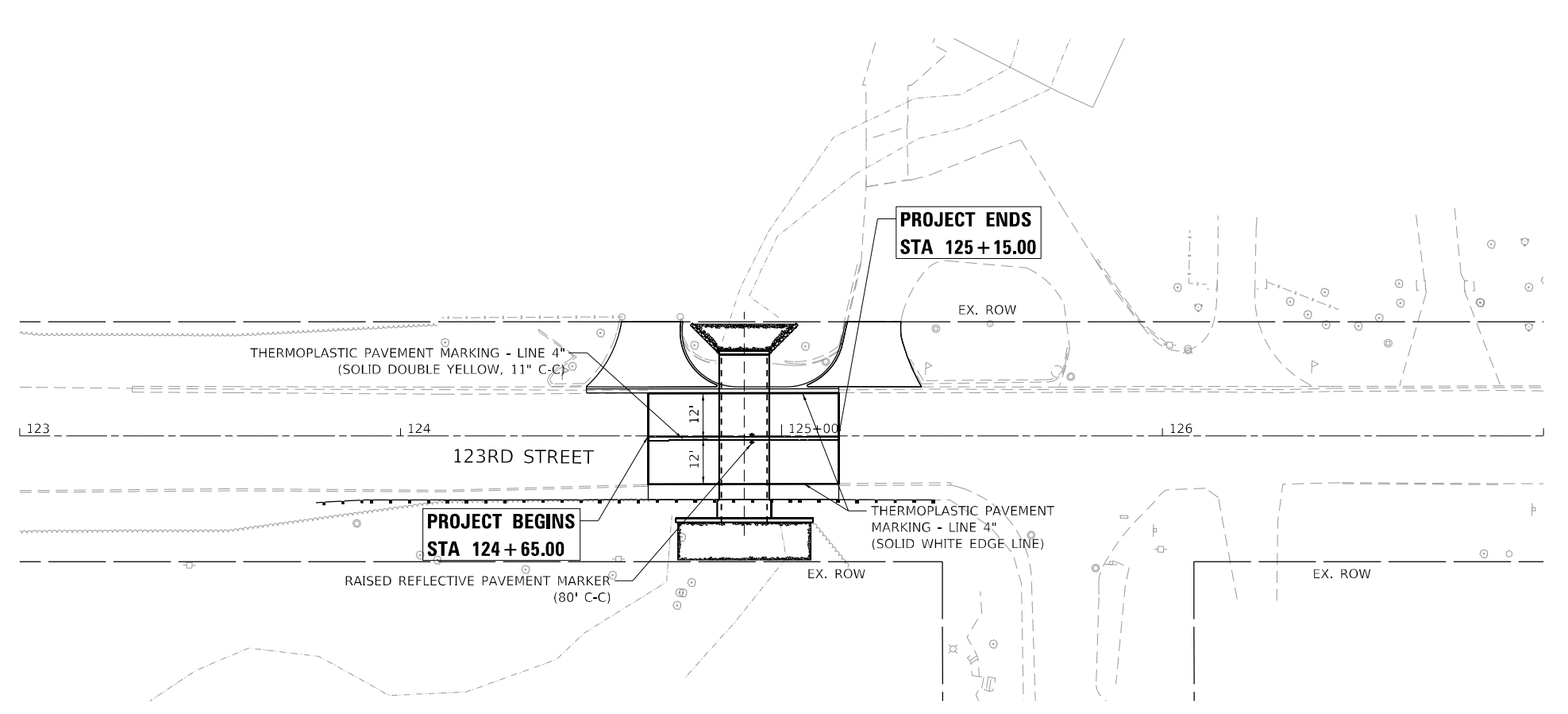
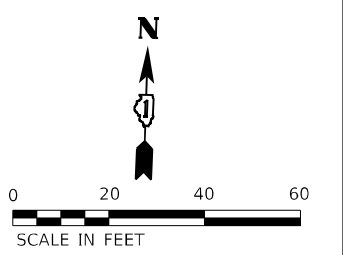
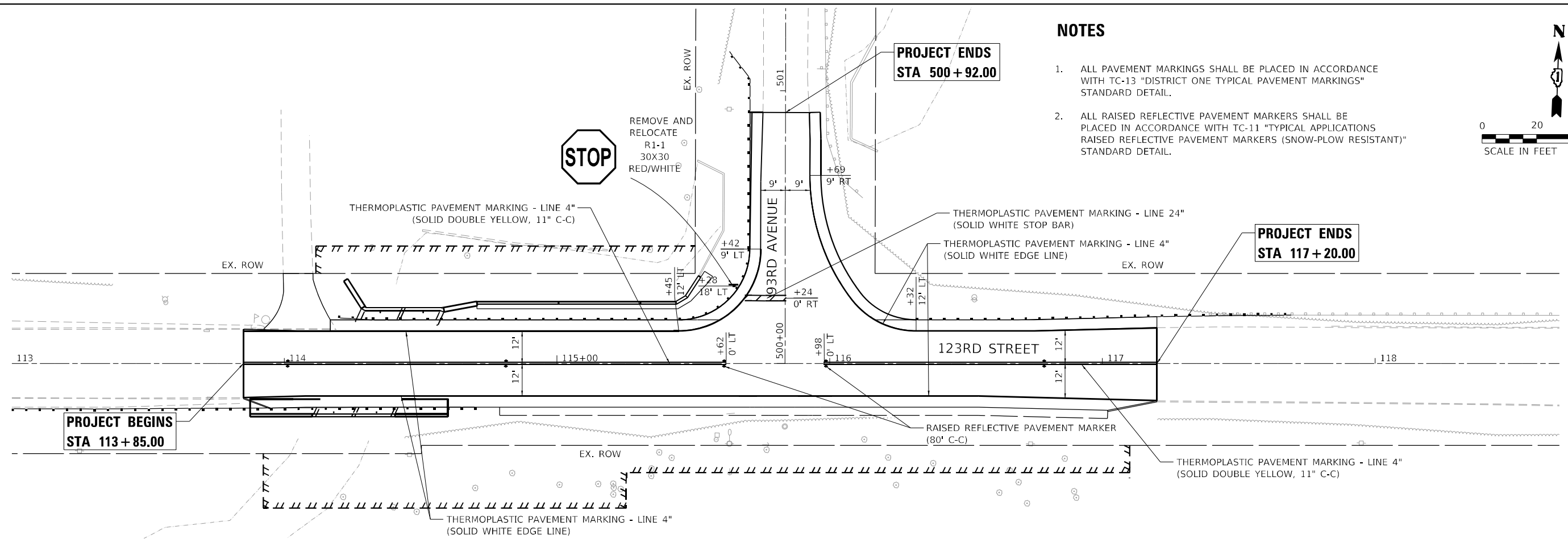
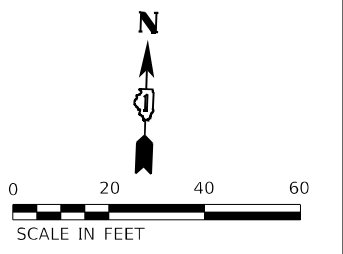
IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 14TH DAY OF SEPTEMBER A.D., 2022. CHICAGO, IL.

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022 MY LICENSE EXPIRES 11/30/2023



**NOTES**

1. ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
2. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.



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**AEG** ATLAS ENGINEERING GROUP, LTD.

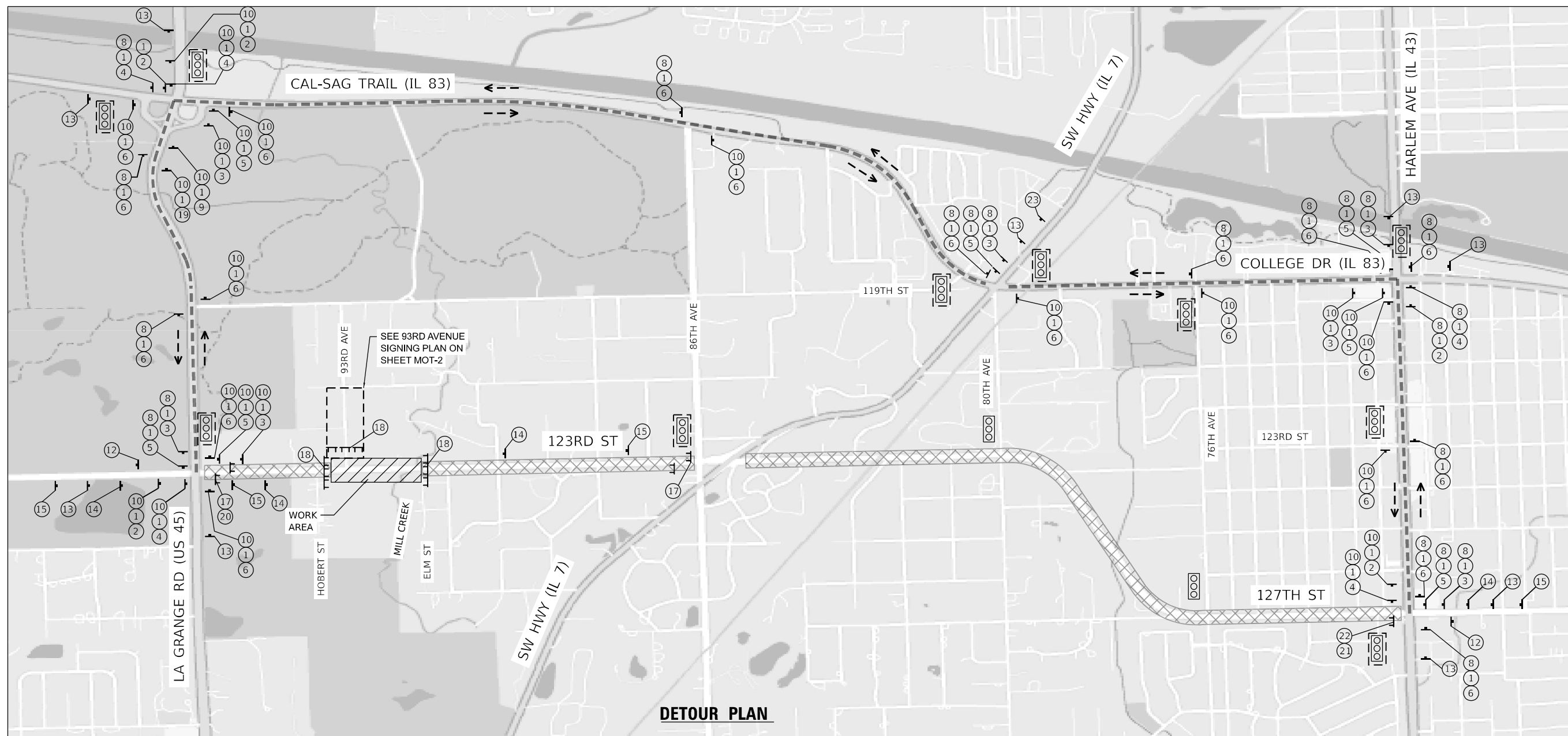
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DRAWN - NJ	REVISED -	
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PLOT DATE = 6/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN  
123RD STREET AND 93RD AVENUE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	33
CONTRACT NO. 62T94			ILLINOIS FED. AID PROJECT	



**DETOUR PLAN**

**DETOUR LEGEND**

- EXISTING SIGNALIZED INTERSECTION
- TEMPORARY TRAFFIC SIGNAL TIMING LOCATION
- DETOUR ROUTE
- PARTIALLY CLOSED ROAD
- DETOUR TRAFFIC DIRECTION
- WORK AREA
- TYPE III BARRICADE (SEE NOTE 2)
- TEMPORARY SIGN

**SIGN LEGEND**

- |   |  |  |    |  |               |    |  |  |
|---|--|--|----|--|---------------|----|--|--|
| 1 |  | SPECIAL 24"X18" 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND | 8  |  | M3-4(O)-2412  | 19 |  | 30x24  |
| 2 |  | M4-9L(O)-3024  | 9  |  | M4-9R(O)-3024 | 20 |  | M4-10L-4818  |
| 3 |  | M4-9R(O)-3024  | 10 |  | M3-2(O)-2412  | 21 |  | M4-10R-4818  |
| 4 |  | M4-9L(O)-3024  | 11 |  | M4-5(O)-2412  | 22 |  | R3-11A-6030<br>WHEN "X" MILES > 0.5, USE R3-11A INSTEAD OF R11-4 |
| 5 |  | M4-9L(O)-3024  | 12 |  | M4-8A-2418    | 23 |  | SPECIAL 24"X18" 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND |
| 6 |  | M4-9(O)-3024   | 13 |  | W20-2-4848    |    |  |  |
| 7 |  | SPECIAL 24"X18" 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND | 14 |  | W20-3-4848    |    |  |  |
|   |  |  | 15 |  | W20-3-4848    |    |  |  |
|   |  |  | 16 |  | W20-1-4848    |    |  |  |
|   |  |  | 17 |  | R11-4-6030    |    |  |  |
|   |  |  | 18 |  | R11-2-4830    |    |  |  |

**NOTES:**

1. SEE IDOT DISTRICT 1 STANDARD DETAIL TC-21 FOR TYPICAL DETOUR SIGN SPACING.
2. DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGNS WITH THE PLACEMENT OF DETOUR SIGNAGE.
4. A MINIMUM OF 14 DAYS IN ADVANCE OF THE CLOSURE OF 123RD ST, THE CONTRACTOR SHALL PLACE ONE PORTABLE CHANGEABLE MESSAGE SIGN IN ADVANCE OF EACH END OF THE CLOSURE AS DIRECTED AND A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING DETOUR. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR CHANGEABLE MESSAGE SIGNS.
5. LOCAL ACCESS SHALL BE PROVIDED AT ALL TIMES TO RESIDENTS AND BUSINESSES.
6. THE FOLLOWING INTERSECTIONS WILL BE RETIMED.  
 LA GRANGE RD / 123RD ST  
 LA GRANGE RD / CAL-SAG TRAIL EXIT RAMP  
 LA GRANGE RD / CAL-SAG TRAIL ENTRANCE RAMP  
 CAL-SAG TRAIL / 119TH ST & ST MORITZ AVE  
 CAL-SAG TRAIL & 119TH ST / 80TH AVE  
 COLLEGE DR / 76TH AVE  
 COLLEGE DR / HARLEM AVE  
 HARLEM AVE / 123RD ST  
 HARLEM AVE / 127TH ST  
 123RD ST / 86TH AVE

**MOT-1**

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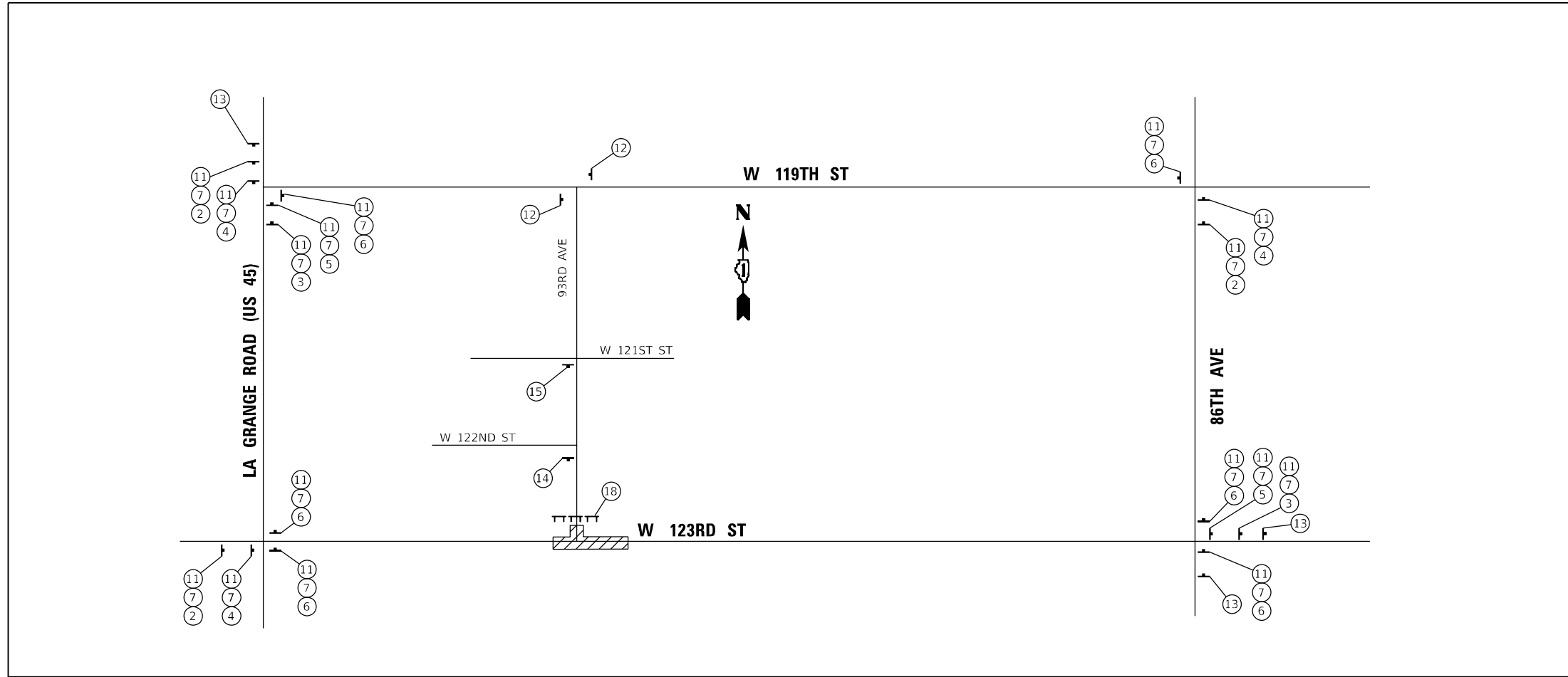
**THE HOH GROUP, INC.**  
ARCHITECTS | ENGINEERS

USER NAME = a zapack	DESIGNED - AAF	REVISED -
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PLOT DATE = 6/26/2024	CHECKED - BAP	REVISED -
	DATE - 4/10/24	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETOUR ROUTE</b>			
<b>123RD STREET &amp; 93RD AVENUE</b>			
SCALE: NTS	SHEET 1	OF 1 SHEETS	STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	34
CONTRACT NO. 62194				
ILLINOIS FED. AID PROJECT				



**93RD AVENUE SIGNING PLAN**  
NO SCALE

**DETOUR LEGEND**

- EXISTING SIGNALIZED INTERSECTION
- TEMPORARY TRAFFIC SIGNAL TIMING LOCATION
- DETOUR ROUTE
- PARTIALLY CLOSED ROAD
- DETOUR TRAFFIC DIRECTION
- WORK AREA
- TYPE III BARRICADE (SEE NOTE 2)
- TEMPORARY SIGN

**SIGN LEGEND**

①		SPECIAL 24"x18" 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND	⑧		M3-4(O)-2412	⑮		W20-3-4848	⑲		30x24
②		M4-9L(O)-3024	⑨		M4-9R(O)-3024	⑯		W20-1-4848	⑳		M4-10L-4818
③		M4-9R(O)-3024	⑩		M3-2(O)-2412	⑰		R11-4-6030	㉑		M4-10R-4818
④		M4-9L(O)-3024	⑪		M4-5(O)-2412	⑱		R11-2-4830	㉒		R3-11A-6030
⑤		M4-9L(O)-3024	⑫		M4-8A-2418	㉓					
⑥		M4-9(O)-3024	⑬		W20-2-4848						
⑦		SPECIAL 24"x18" 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND	⑭		W20-3-4848						

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**THE HOH GROUP, INC.**  
ARCHITECTS | ENGINEERS

USER NAME = a zpatrick	DESIGNED - AAF	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - AAF	REVISED -
PLOT DATE = 6/26/2024	CHECKED - BAP	REVISED -
	DATE - 4/10/24	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR ROUTE  
123RD STREET & 93RD AVENUE**

SCALE: NTS SHEET 1 OF 2 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	35
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				

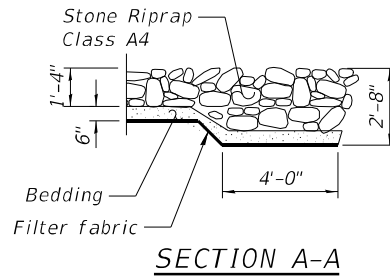
**MOT-2**

Benchmark: Cut X on east curb return at 123rd and 93rd St. Sta. 116+31.69 Offset 13.41' Lt. Elevation 662.61

Existing Structure: S.N. 016-0880. Original construction year unknown. Structure consists of a 6.55-foot wide by 7-foot high reinforced concrete arch with 6.55-foot wide by 7-foot high concrete box culvert extensions. Skew is 25 degrees. In 1954, the original 26.6-foot long culvert was lengthened 8.9 feet on each end. Concrete L-type cantilever wingwalls were added. Existing structure will be removed and replaced using a detour to maintain traffic.

No Salvage.

Precast alternate is not allowed.



**WATERWAY INFORMATION**

Drainage Area= 3.08 square miles		Existing Overopping Elev. = 661.22 at Sta 115+56		Proposed Overopping Elev. = 661.96 at Sta 115+30					
Flood Event	Freq. Yr.	Discharge ft <sup>3</sup> /s	Waterway Opening-ft <sup>2</sup> Existing	Proposed	Natural H.W.E.- ft	Head -ft		Headwater Elevation-ft	
						Existing	Proposed	Existing	Proposed
Design	10	296	35.0	129.3	657.90	1.20	0.00	659.10	657.90
Base	50	614	42.0	171.7	659.82	1.96	0.00	661.78	659.82
Scour Design Check	100	776	42.0	180.0	661.46	1.34	0.20	662.80	661.66
Overtop Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Overtop Proposed	39	527	42.0	N/A	N/A	N/A	N/A	661.22	N/A
Max. Calc.	145	876	42.0	180.0	N/A	N/A	N/A	N/A	661.96
	500	1665	42.0	180.0	663.21	0.85	0.78	664.06	663.99

10-Year Velocity through Existing Structure = 9 ft/s  
 10-Year Velocity through Proposed Structure = 2 ft/s  
 2 year flow rate = 55 ft<sup>3</sup>/s

**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.

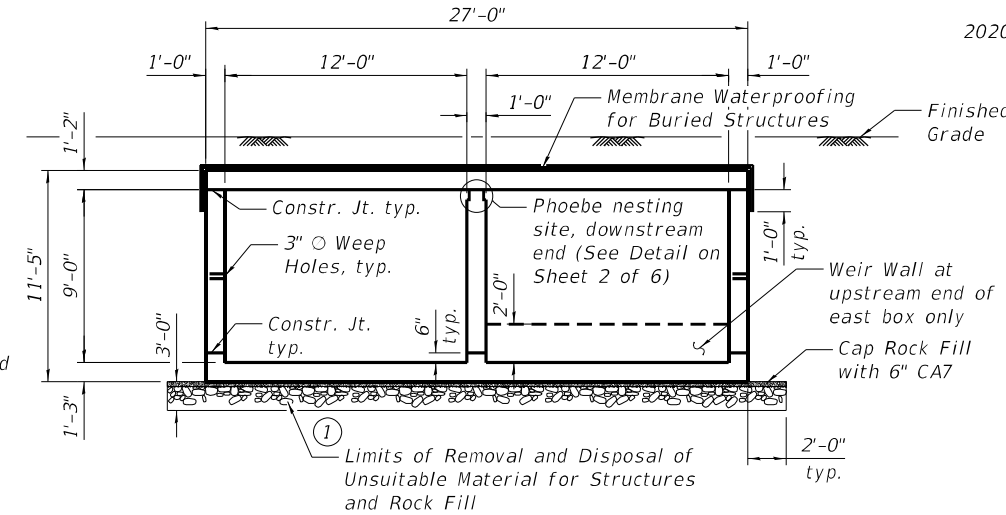
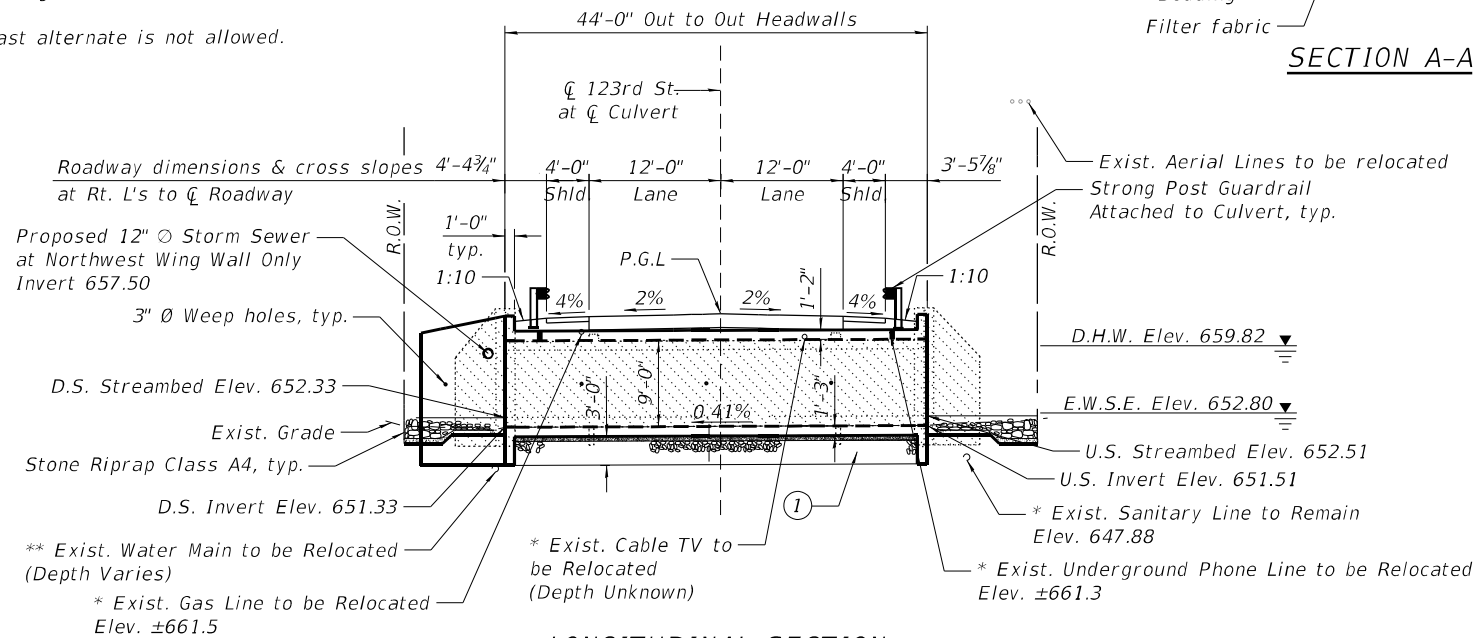
**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.

**DESIGN STRESSES**

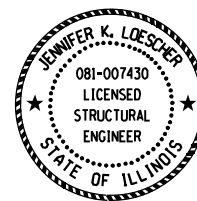
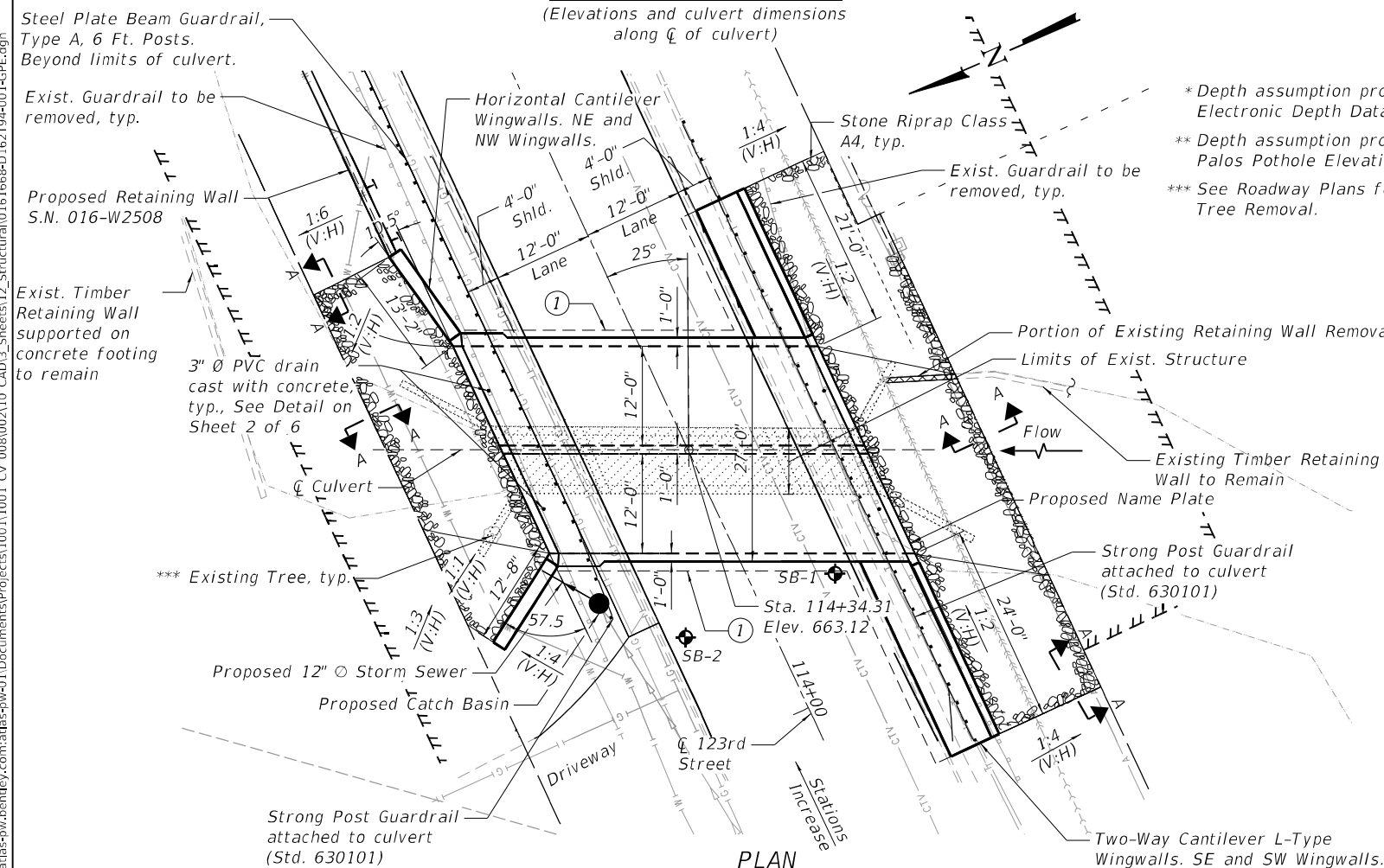
**FIELD UNITS (CULVERT)**

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



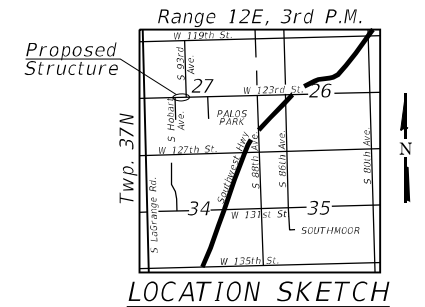
**LEGEND**

- SB (Soil Boring)
- Removal of Existing Structures
- Proposed Temporary Easement
- Exist. R.O.W.
- Exist. Storm Sewer to be cleaned
- Exist. Aerial Line to be relocated
- \*Exist. 8" Palos Park Sanitary Line to remain
- Exist. Guardrail to be removed, typ.
- \*\*Exist. Water Main to be relocated
- \*Exist. Underground Phone Line to be relocated
- \*Exist. Cable TV utility to be relocated
- \*Exist. Underground Gas Line to be relocated



*Jennifer K. Loescher*  
 JENNIFER K. LOESCHER, P.E., S.E.  
 DATE: 5/03/2024  
 NO. 081-007430  
 EXP. DATE 11/30/2024

**APPROVED**  
 For Structural Adequacy Only  
*Jan F. Schiff*  
 Engineer of Bridges & Structures



**GENERAL PLAN AND ELEVATION**  
**F.A.U. 1587 (W. 123rd STREET)**  
**OVER WEST BRANCH OF MILL CREEK**  
**SECTION F.A.U. 1587 22 CR**  
**COOK COUNTY**  
**STATION 114+34.31**  
**STRUCTURE NO. 016-1668**

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		CHECKED - 2/14/2024	REVISED -

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

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 016-1668**  
 SHEET 1 OF 6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	36
			CONTRACT NO. 62T94	
ILLINOIS FED. AID PROJECT				

**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Data
3. Box Culvert Structural Details (1 of 3)
4. Box Culvert Structural Details (2 of 3)
5. Box Culvert Structural Details (3 of 3)
6. Soil Boring Logs

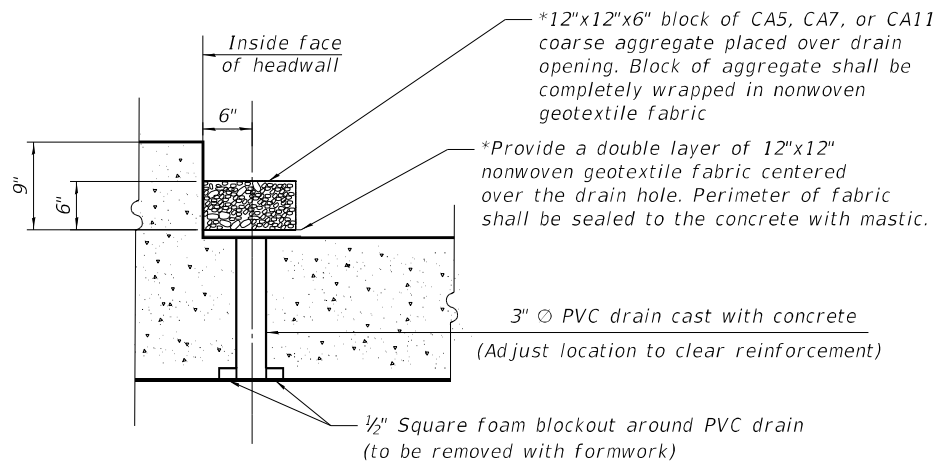
**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. Precast option not allowed.
4. The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for Variable subsurface conditions encountered in the field.
5. The Rock Fill shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item Rock Fill.
6. All excavation and backfill shall be included in Concrete Box Culverts.

**TOTAL BILL OF MATERIAL**

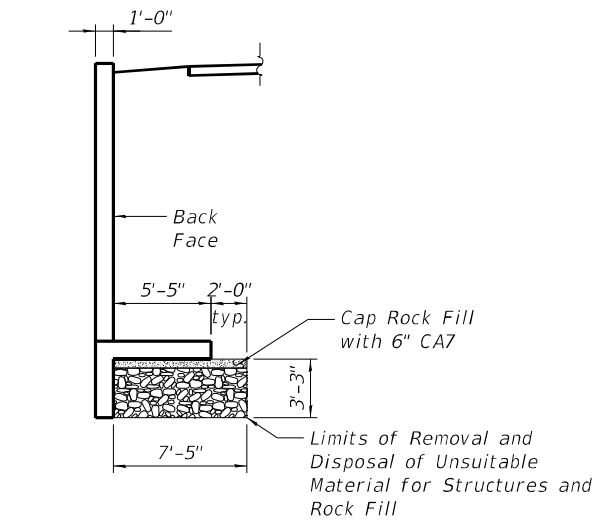
ITEM	UNIT	QTY.
Stone Riprap, Class A4	Sq. Yd.	180
Filter Fabric	Sq. Yd.	180
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	183
Reinforcement Bars, Epoxy Coated	Pound	48,450
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	217.0
Geocomposite Wall Drain	Sq. Yd.	146
Membrane Waterproofing System for Buried Structures	Sq. Yd.	146
Rock Fill	Cu. Yd.	183

\* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



**DRAIN DETAIL**

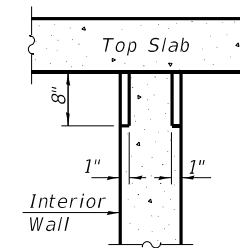
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



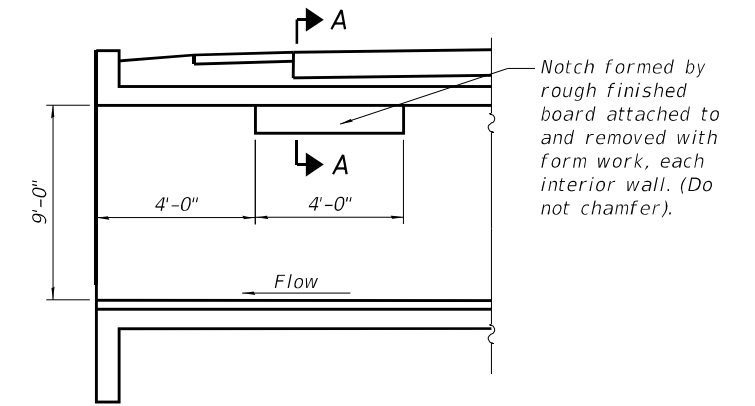
**SECTION THRU SOUTH WINGWALL**

STATION 114+34.31  
 BUILT 202\_ BY  
 STATE OF ILLINOIS  
 F.A.U. RTE. 1587  
 SEC. F.A.U. RTE. 1587 22 CR  
 LOADING HL-93  
 STR. NO. 016-1668

**NAME PLATE**  
 See Std. 515001

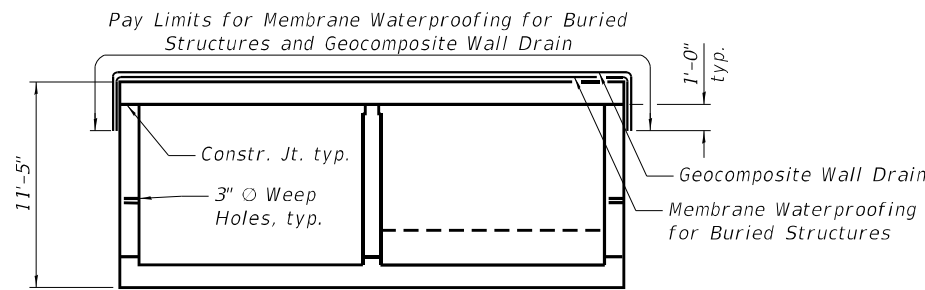


**SECTION A-A**



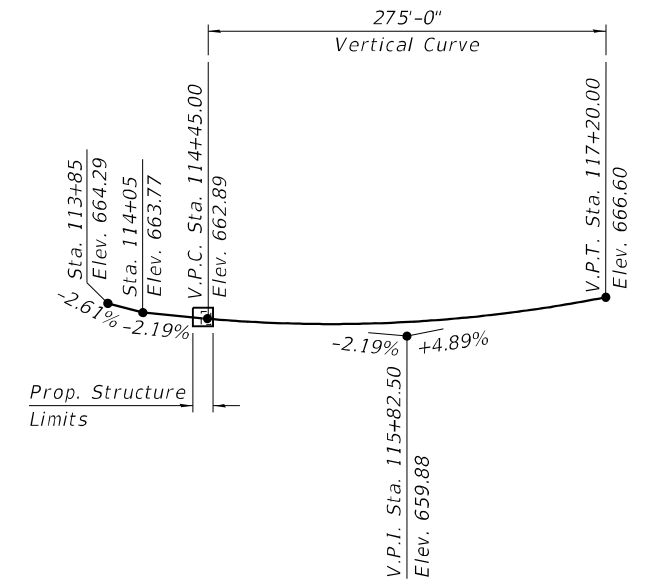
**LONGITUDINAL SECTION**

**PHOEBE NESTING  
 SITE DETAILS  
 (Downstream End Only)**



**ELEVATION - WATERPROOFING DETAIL**

(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.)



**PROFILE GRADE  
 (Along C 123rd Street)**

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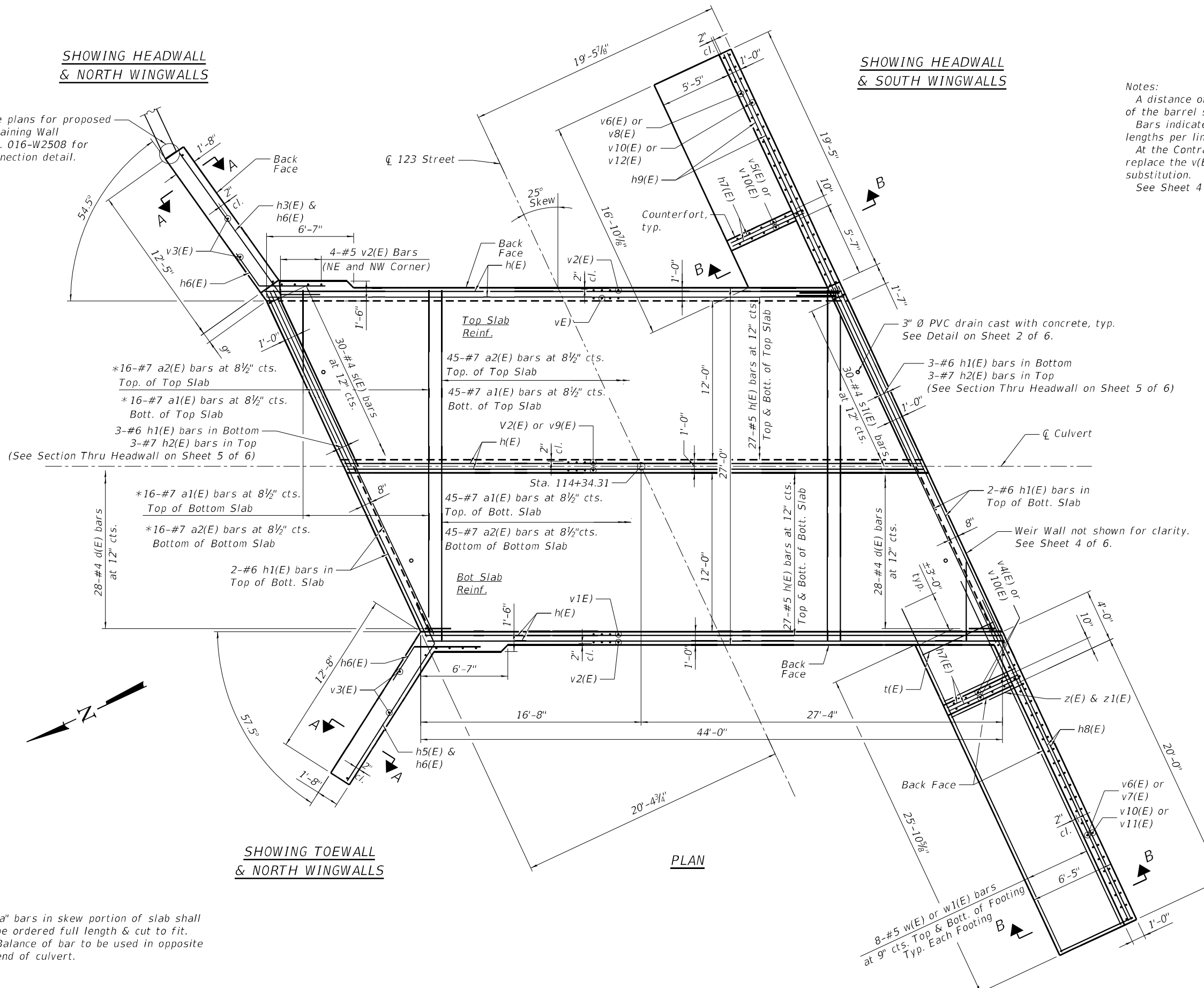
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	CHECKED - JKL	REVISIED -	1587			FAU 1587 22 CR	COOK	66	37	
PLOT SCALE =	DRAWN - SPB	REVISIED -		SHEET 2 OF 6 SHEETS		CONTRACT NO. 62T94				
PLOT DATE =	CHECKED - 2/14/2024	REVISIED -				ILLINOIS FED. AID PROJECT				

**SHOWING HEADWALL & NORTH WINGWALLS**

**SHOWING HEADWALL & SOUTH WINGWALLS**

Notes:  
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the north wingwalls.  
 Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.  
 At the Contractor's option, a longer v2(E) bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.  
 See Sheet 4 of 6 for Sections A-A and B-B.

See plans for proposed Retaining Wall S.N. 016-W2508 for connection detail.



**SHOWING TOEWALL & NORTH WINGWALLS**

**SHOWING TOEWALL & SOUTH WINGWALLS**

**PLAN**

\* "a" bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.

(Sheet 1 of 3)

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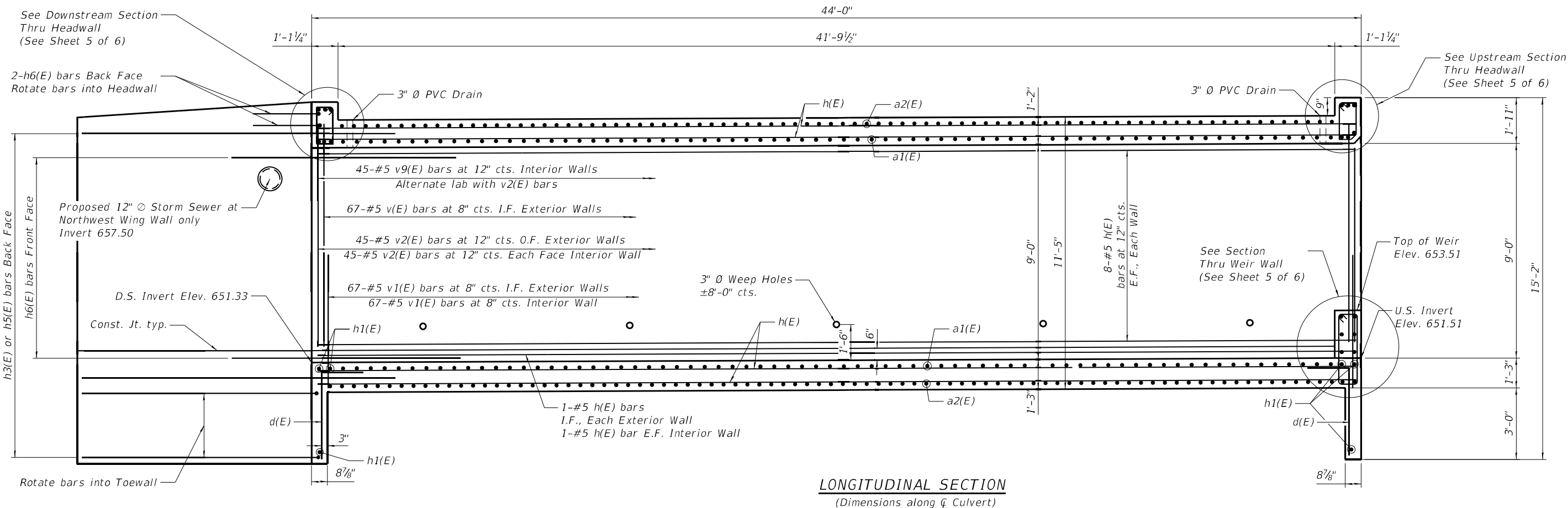
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT STRUCTURAL DETAILS  
 STRUCTURE NO. 016-1668**

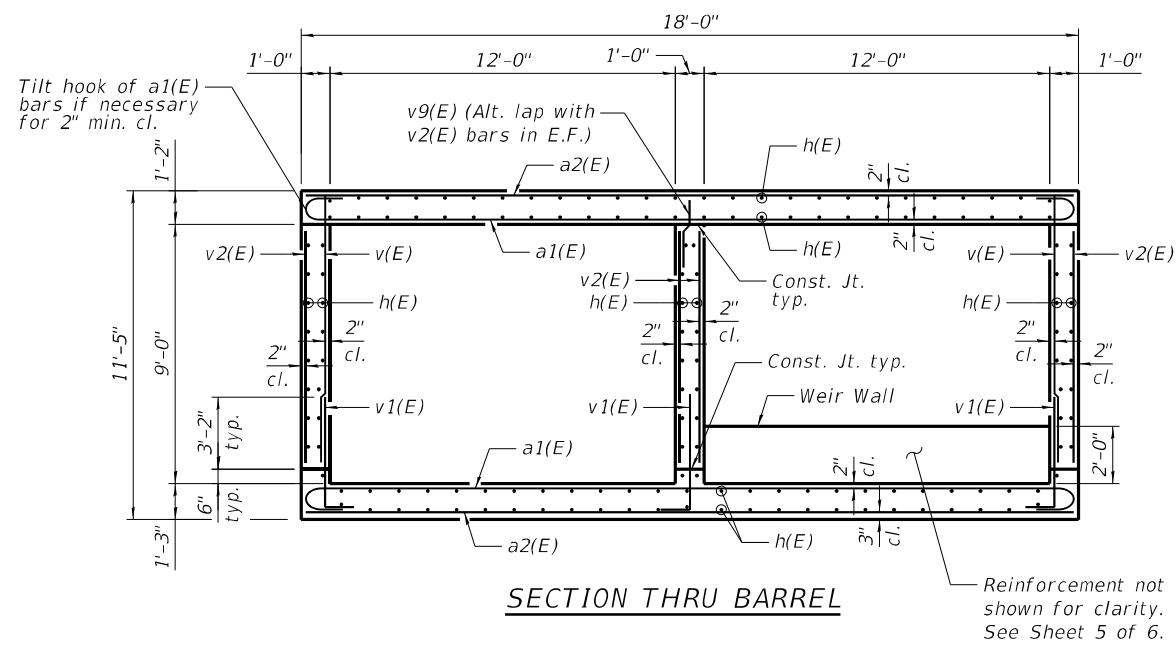
SHEET 3 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	38
			CONTRACT NO. 62T94	

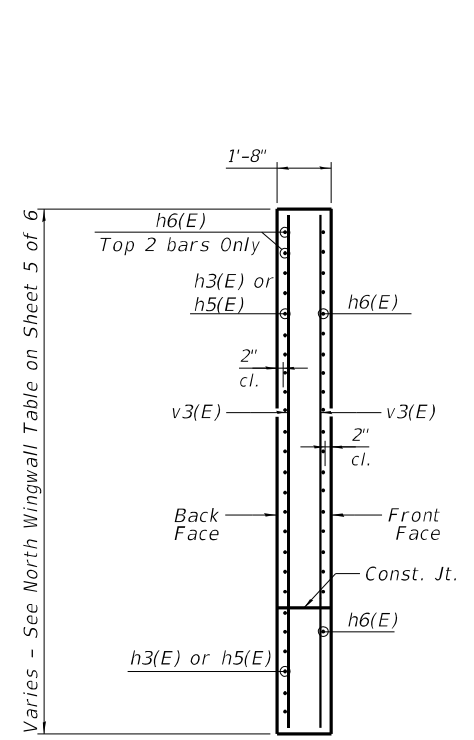
ILLINOIS FED. AID PROJECT



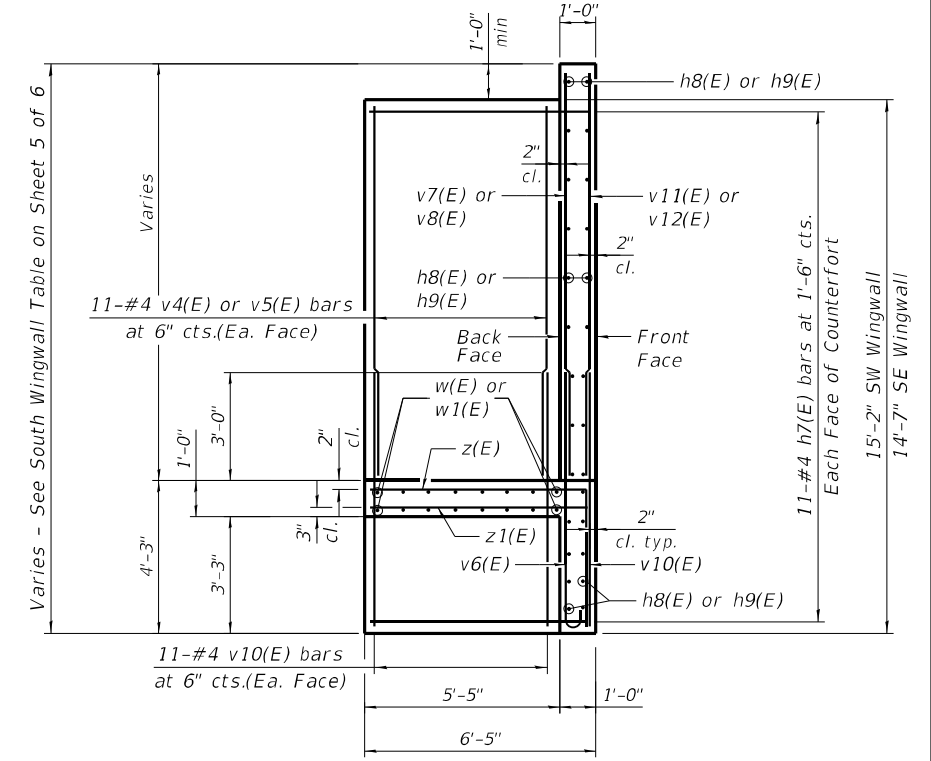
**LONGITUDINAL SECTION**  
(Dimensions along C Culvert)



**SECTION THRU BARREL**



**SECTION A-A**



**SECTION B-B**

(Sheet 2 of 3)

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		CHECKED - 2/14/2024	REVISED -

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

**BOX CULVERT STRUCTURAL DETAILS**  
**STRUCTURE NO. 016-1668**

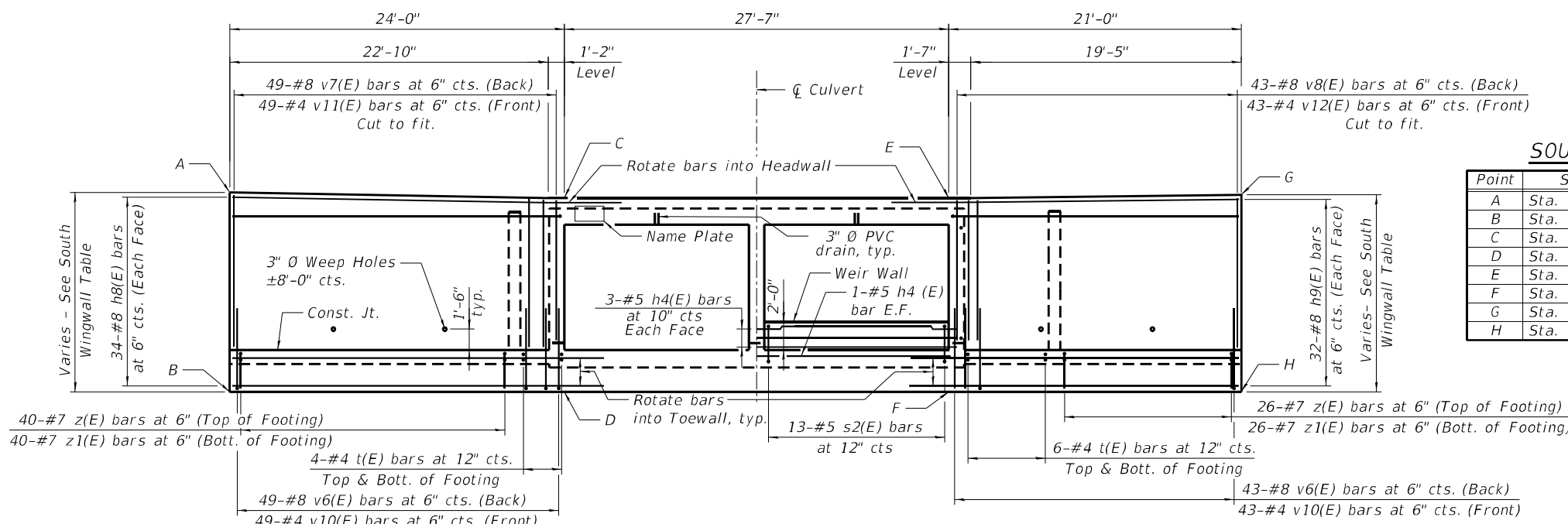
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	39
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	122	#7	28'-4"	U
a2(E)	122	#7	26'-8"	U
d(E)	56	#4	5'-8"	L
h(E)	160	#5	43'-8"	U
h1(E)	12	#6	29'-5"	U
h2(E)	6	#7	29'-5"	U
h3(E)	38	#7	15'-10"	U
h4(E)	8	#5	13'-0"	U
h5(E)	32	#7	16'-2"	U
h6(E)	44	#7	8'-0"	U
h7(E)	44	#4	6'-1"	U
h8(E)	68	#8	26'-8"	U
h9(E)	64	#8	23'-2"	U
h10(E)	8	#5	2'-0"	U
s(E)	30	#4	5'-7"	U
s1(E)	30	#4	5'-5"	U
s2(E)	13	#4	8'-3"	U
t(E)	20	#4	6'-1"	U
v(E)	134	#5	9'-4"	U
v1(E)	201	#5	5'-8"	U
v2(E)	188	#5	8'-2"	U
v3(E)	8	#4	16'-10"	U
v4(E)	22	#4	10'-7"	U
v5(E)	22	#4	10'-0"	U
v6(E)	92	#8	8'-0"	U
v7(E)	49	#8	12'-2"	U
v8(E)	43	#8	11'-0"	U
v9(E)	45	#5	4'-6"	U
v10(E)	136	#4	7'-1"	U
v11(E)	49	#4	12'-2"	U
v12(E)	43	#4	11'-0"	U
w(E)	16	#5	28'-9"	U
w1(E)	16	#5	19'-9"	U
z(E)	66	#7	10'-0"	U
z1(E)	66	#7	6'-1"	U
Concrete Box Culverts	Cu. Yd.		217.0	
Reinforcement Bars, Epoxy Coated	Pound		48,450	

**SOUTH WINGWALL LOCATIONS**

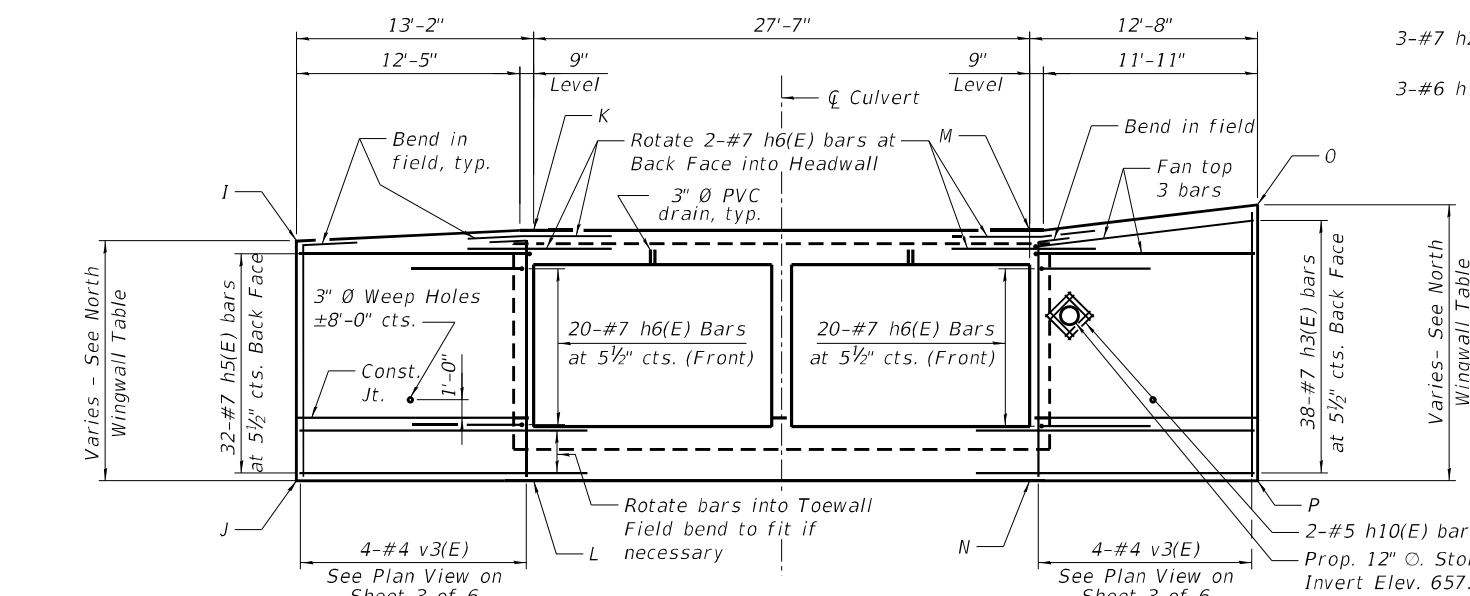
Point	Station	Offset	Elevation	Height
A	Sta. 113+87.43	19.49' RT	664.08	16'-9 <sup>5</sup> / <sub>8</sub> "
B	Sta. 113+87.43	19.49' RT	647.28	
C	Sta. 114+11.43	19.49' RT	663.48	16'-2 <sup>3</sup> / <sub>8</sub> "
D	Sta. 114+11.43	19.49' RT	647.28	
E	Sta. 114+39.01	19.49' RT	662.87	15'-7 <sup>1</sup> / <sub>2</sub> "
F	Sta. 114+39.01	19.49' RT	647.24	
G	Sta. 114+60.01	19.49' RT	662.44	15'-2 <sup>3</sup> / <sub>8</sub> "
H	Sta. 114+60.01	19.49' RT	647.24	



**SOUTH UNFOLDED ELEVATION**

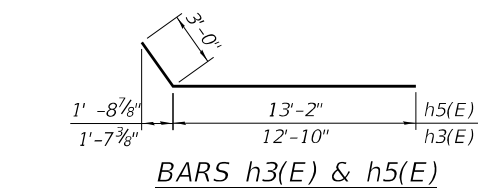
(Looking North)  
(Dimensions along headwall and wingwall skew)

Note:  
Cut all vertical bars to fit, as necessary.

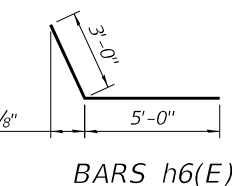


**NORTH UNFOLDED ELEVATION**

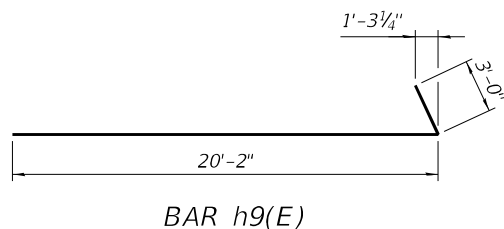
(Looking South)  
(Dimensions along headwall and wingwall skew)



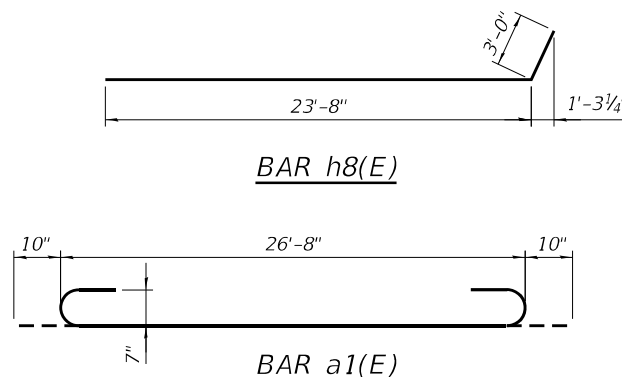
**BARS h3(E) & h5(E)**



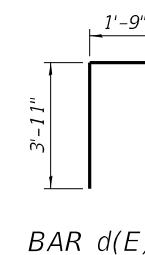
**BARS h6(E)**



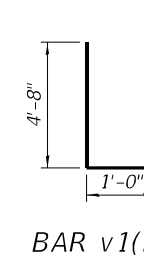
**BAR h9(E)**



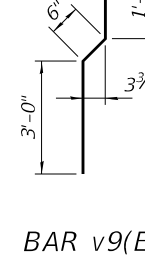
**BAR a1(E)**



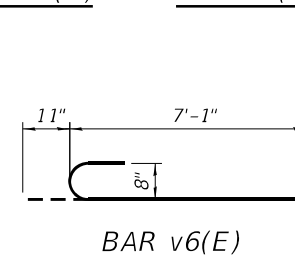
**BAR d(E)**



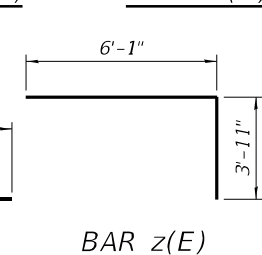
**BAR v1(E)**



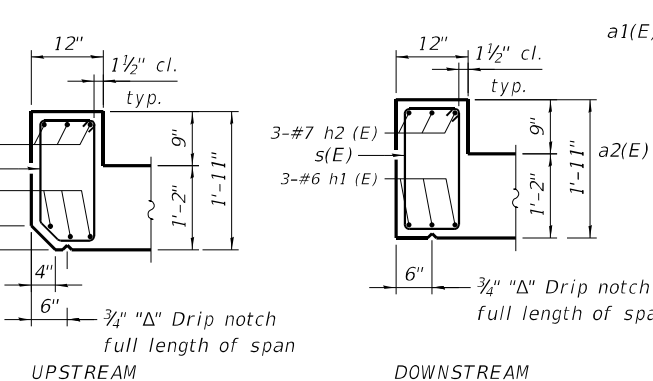
**BAR v9(E)**



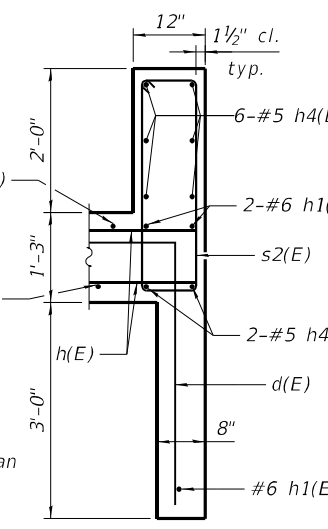
**BAR v6(E)**



**BAR z(E)**



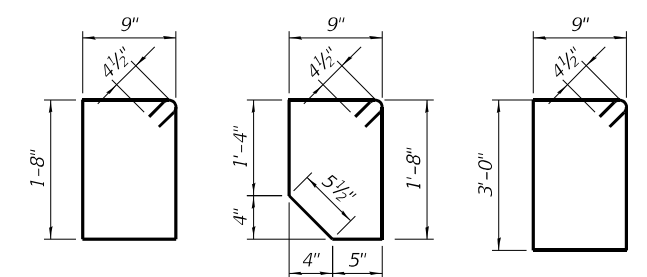
**SECTION THRU HEADWALL**



**SECTION THRU WEIR WALL**

**NORTH WINGWALL LOCATIONS**

Point	Station	Offset	Elevation	Height
I	Sta. 114+70.55	22.80' LT	661.45	14'-4 <sup>5</sup> / <sub>8</sub> "
J	Sta. 114+70.55	22.80' LT	647.06	
K	Sta. 114+57.61	20.39' LT	662.37	15'-3 <sup>3</sup> / <sub>4</sub> "
L	Sta. 114+57.61	20.39' LT	647.06	
M	Sta. 114+30.02	20.39' LT	662.92	15'-9 <sup>7</sup> / <sub>8</sub> "
N	Sta. 114+30.02	20.39' LT	647.10	
O	Sta. 114+23.22	31.07' LT	664.34	17'-2 <sup>7</sup> / <sub>8</sub> "
P	Sta. 114+23.22	31.07' LT	647.10	



**BAR s(E)**

**BAR s1(E)**

**BAR s2(E)**

(Sheet 3 of 3)

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	CHECKED - 2/14/2024	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT STRUCTURAL DETAILS  
STRUCTURE NO. 016-1668**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	40
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				





SOIL BORING LOG

Date 7/20/22

ROUTE 123rd Street DESCRIPTION West Culvert LOGGED BY AA

SECTION 123rd Street LOCATION Palos Park, IL, SEC. TWP. Palos, RNG.

COUNTY COOK DRILLING METHOD CME 75 HSA HAMMER TYPE AUTO HAMMER EFF (%) 91

STRUCT. NO. SN 016-1668 Station 114+40 BORING NO. B-1 Station 114+13.42 Offset 9.71ft RT Ground Surface Elev. 663.36 ft

Table with columns for Soil Description, Depth (ft), Blows (6"), Penetration (tsf), and Moisture (%). Includes soil types like 'Brown, Moist SILTY CLAY, trace sand, gravel' and 'Medium Stiff Gray, Moist SILTY CLAY, trace sand, gravel'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 7/18/22

ROUTE 123rd Street DESCRIPTION West Culvert/ Retaining Wall LOGGED BY DD

SECTION 123rd Street LOCATION Palos Park, IL, SEC. TWP. Palos, RNG.

COUNTY COOK DRILLING METHOD CME 75 HSA HAMMER TYPE AUTO HAMMER EFF (%) 91

STRUCT. NO. SN 016-1668 Station 114+40 BORING NO. B-2 Station 114+14.06 Offset 9.84ft LT Ground Surface Elev. 662.20 ft

Table with columns for Soil Description, Depth (ft), Blows (6"), Penetration (tsf), and Moisture (%). Includes soil types like '13 inches of Asphalt', 'Brown, Moist to Very Moist SILTY CLAY, trace gravel', and 'Very Stiff to Hard Gray, Moist SILTY CLAY LOAM, trace gravel'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 7/18/22

ROUTE 123rd Street DESCRIPTION West Culvert/ Retaining Wall LOGGED BY DD

SECTION 123rd Street LOCATION Palos Park, IL, SEC. TWP. Palos, RNG.

COUNTY COOK DRILLING METHOD CME 75 HSA HAMMER TYPE AUTO HAMMER EFF (%) 91

STRUCT. NO. SN 016-1668 Station 114+40 BORING NO. B-2 Station 114+14.06 Offset 9.84ft LT Ground Surface Elev. 662.20 ft

Table with columns for Soil Description, Depth (ft), Blows (6"), Penetration (tsf), and Moisture (%). Includes soil types like 'SANDY LOAM, trace gravel (SM)', 'Very Stiff to Hard Gray, Moist SILTY CLAY LOAM, trace gravel', and 'Dense Gray, Very Moist'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

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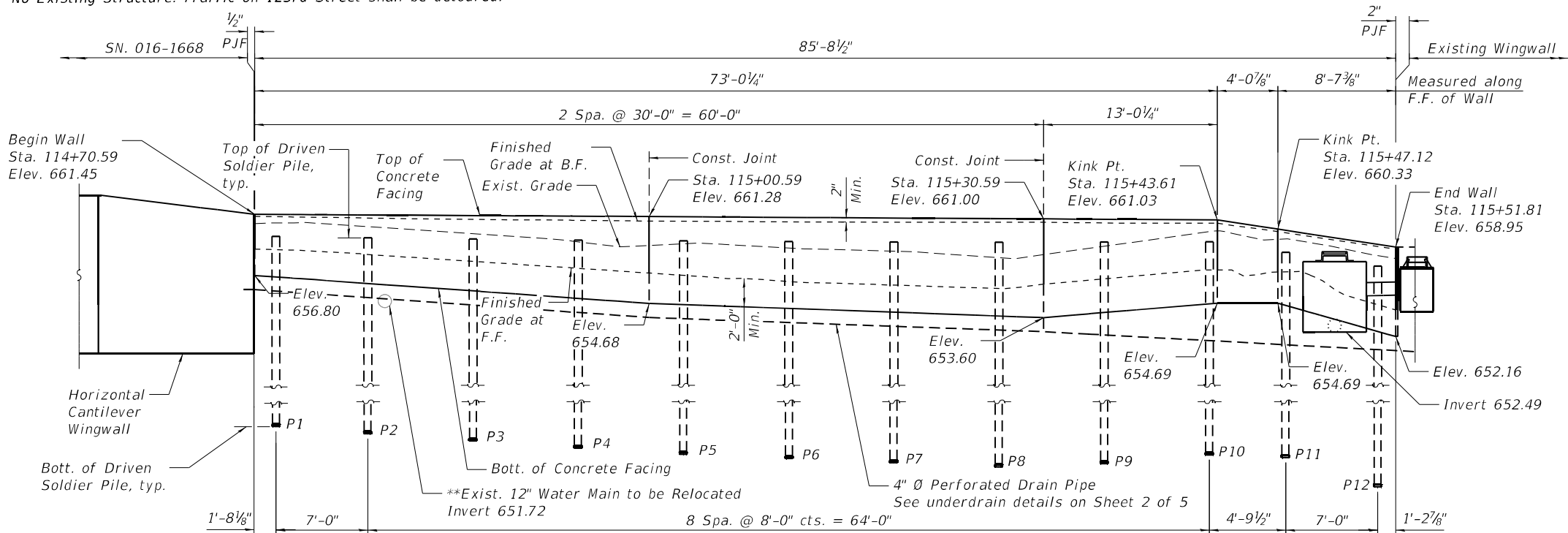
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS STRUCTURE NO. 016-1668 SHEET 6 OF 6 SHEETS

Table with columns: F.A.U. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. 62T94, ILLINOIS FED. AID PROJECT

Benchmark: Cut X on east curb return at 123rd and 93rd St. Sta. 116+31.69 Offset 13.41' Lt.  
Elevation 662.61

No Existing Structure. Traffic on 123rd Street shall be detoured.



**NOTE**

1. Retaining wall stations and offsets are measured from the  $\phi$  of 123rd St. to Front Face of the retaining wall.

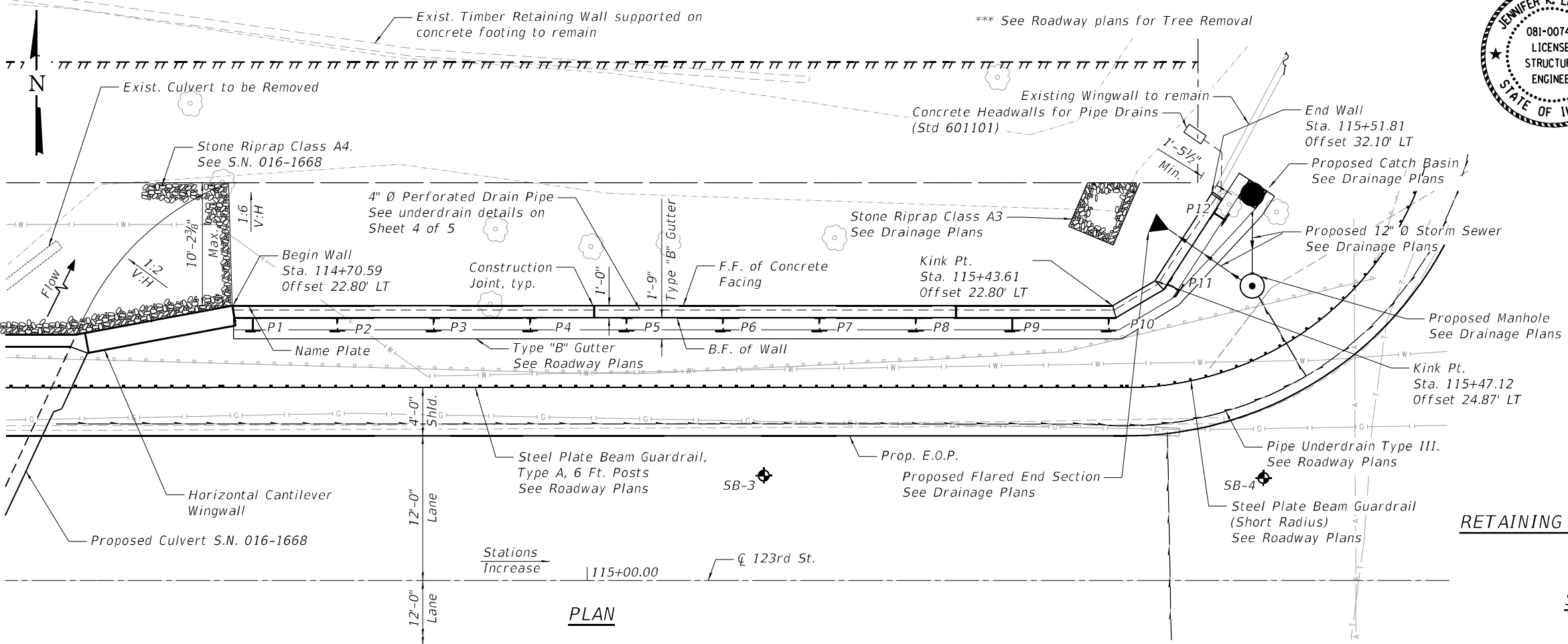
**UNFOLDED ELEVATION**

(Looking North at Back Face of Wall)  
(All dimensions are to the Front Face of Wall)

\* Depth assumption provided by SUE Electronic Depth Data.

\*\* Depth assumption provided by Palos Pothole Elevation Data.

\*\*\* See Roadway plans for Tree Removal



**PLAN**

**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.

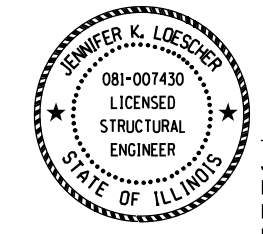
**DESIGN STRESSES**

FIELD UNITS (RETAINING WALL)

$f'_c = 4,000$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50)

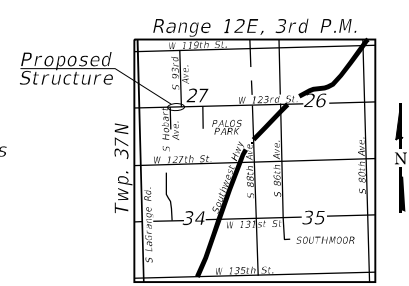
**LEGEND**

- SB (Soil Boring)
- Proposed Temporary Easement
- Edge of Streambed
- Exist. Guardrail to be removed
- Exist. R.O.W.
- \*\*Exist. Water Main to be Relocated
- \*Exist. Gas Line to be relocated
- \*\*\*Existing Tree, typ.



*Jennifer K. Loesch*

JENNIFER K. LOESCHER, P.E., S.E.  
DATE: 5/03/2024  
NO. 081-007430  
EXP. DATE 11/30/2024



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**RETAINING WALL ALONG F.A.U. 1587 (W. 123rd STREET)**  
**SECTION F.A.U. 1587 22 CR**  
**COOK COUNTY**  
**STATION 114+70.59 TO 115+51.81**  
**STRUCTURE NO. 016-W2508**

<b>AEG ATLAS ENGINEERING GROUP, LTD.</b> MODEL: Default FILE NAME: p:\w\atlas-pw\beniley.com\atlas-pw-01\Documents\Projects\110011001 CV 008\002\10 CAD\3_Sheets\12_Structural\016W2508-0162T94-001-RevWallGPE.dgn	USER NAME =	DESIGNED - SPB	REVISD -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN AND ELEVATION</b> <b>STRUCTURE NO. 016-W2508</b>	F.A.U. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
	PLOT SCALE =	CHECKED - JKL	REVISD -			1587	FAU 1587 22 CR	COOK	66	42
	PLOT DATE =	DRAWN - SPB	REVISD -			CONTRACT NO. 62T94				
		CHECKED - 2/14/2024	REVISD -			ILLINOIS FED. AID PROJECT				

**INDEX OF SHEETS**

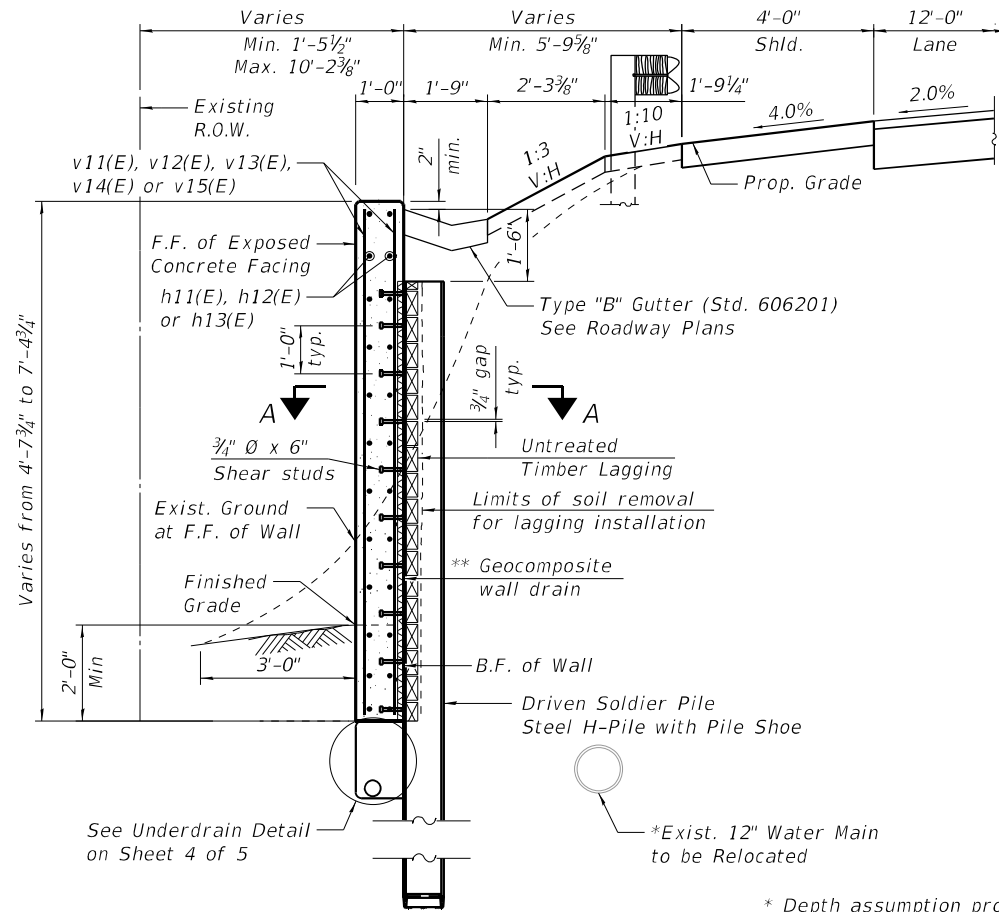
1. General Plan and Elevation
2. General Data
3. Retaining Wall Structural Details (1 of 2)
4. Retaining Wall Structural Details (2 of 2)
5. Soil Boring Logs

**GENERAL NOTES**

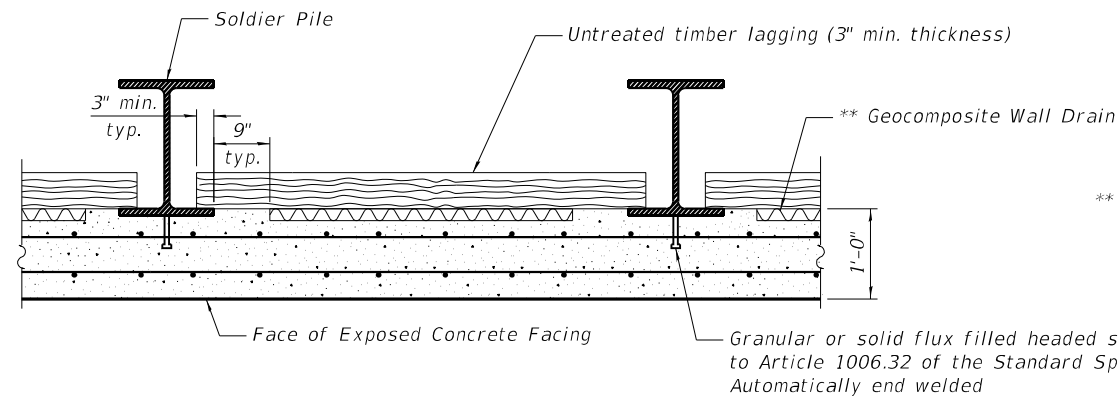
1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
3. All excavation and backfill shall be included in Concrete Structures.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QTY.
Concrete Structures	Cu. Yd.	20.2
Stud Shear Connectors	Each	64
Reinforcement Bars, Epoxy Coated	Pound	1,530
Pile Shoes	Each	12
Name Plates	Each	1
Furnishing Soldier Piles(HP Section)	Foot	218
Driving Soldier Piles	Foot	218
Untreated Timber Lagging	Sq. Ft	332
Geocomposite Wall Drain	Sq. Yd.	36
Concrete Headwalls for Pipe Drains	Each	1
Pipe Underdrains for Structures 4"	Foot	92

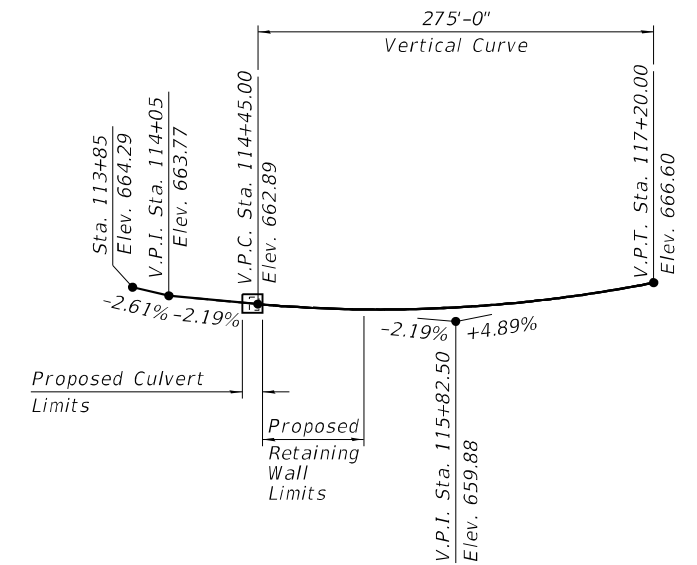


**SECTION THRU SOLDIER PILE WALL**



**SECTION A-A THRU DRIVEN SOLDIER PILE WALL**

\*\* Geocomposite Wall Drain not to exceed thickness of 3/4"



**PROFILE GRADE**  
(Along CL 123rd Street)

STATION 115+70.59  
BUILT 202\_ BY  
STATE OF ILLINOIS  
F.A.U. RTE. 1587  
SEC. F.A.U. RTE. 1587 22 CR  
LOADING HL-93  
STR. NO. 016-W2508

**NAME PLATE**  
See Std. 515001

\* Depth assumption provided by SUE Electronic Depth Data.

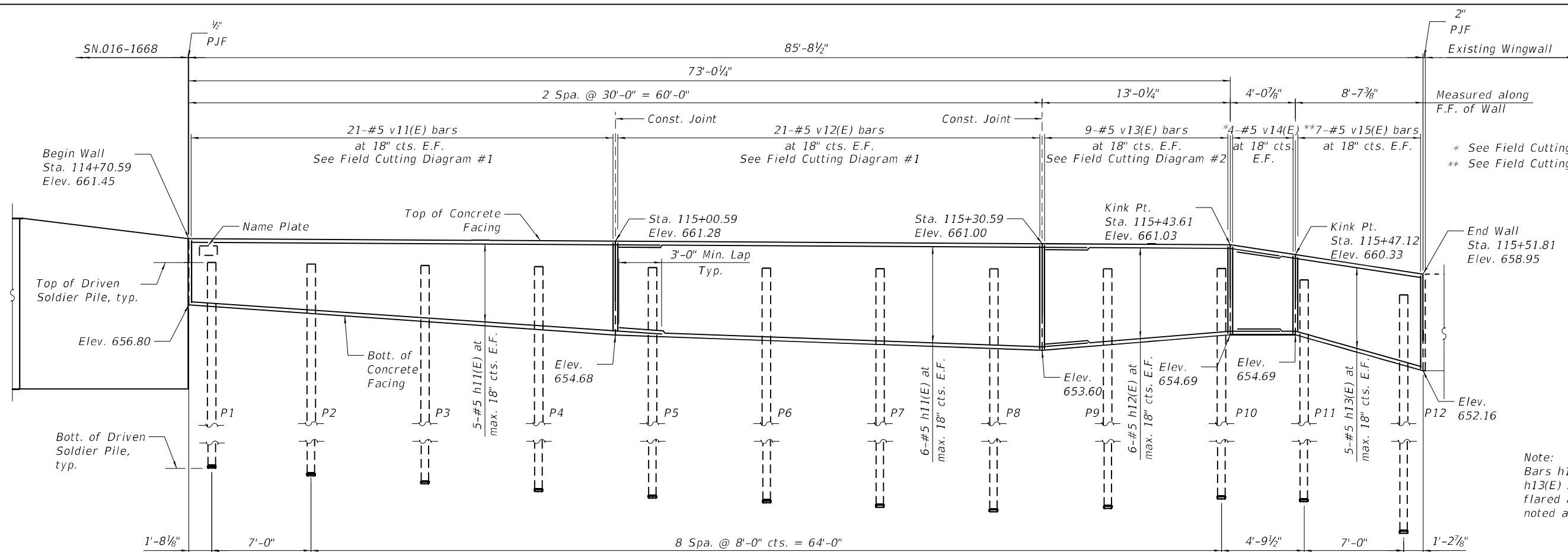
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
STRUCTURE NO. 016-W2508**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	43
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T94	

SHEET 2 OF 5 SHEETS

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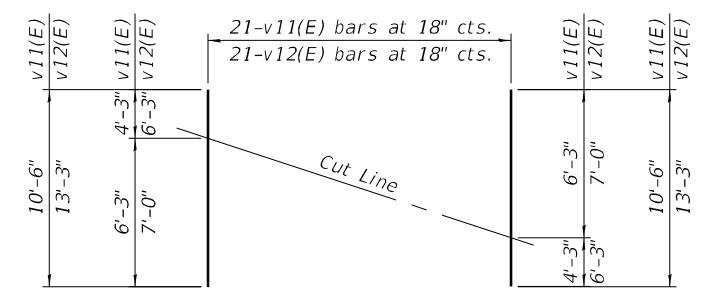


\* See Field Cutting Diagram #2  
 \*\* See Field Cutting Diagram #3

Note:  
 Bars h11(E), h12(E), and h13(E) shall be placed flared at the spacing noted and field bent to fit.

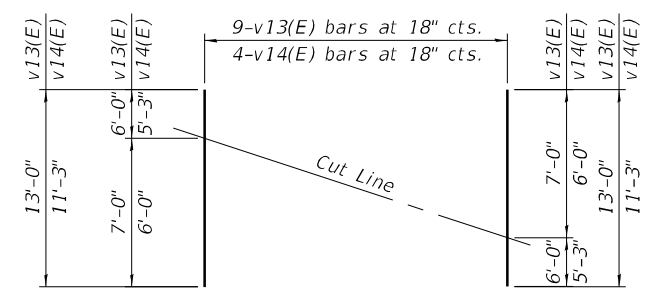
**UNFOLDED ELEVATION**

Looking North at Back Face of Wall  
 All dimensions are to the Front Face of Wall



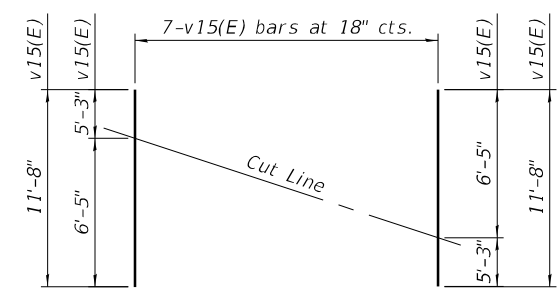
**FIELD CUTTING DIAGRAM #1**

Order bars shown full length. Cut as shown and use remainder of bars in opposite face.



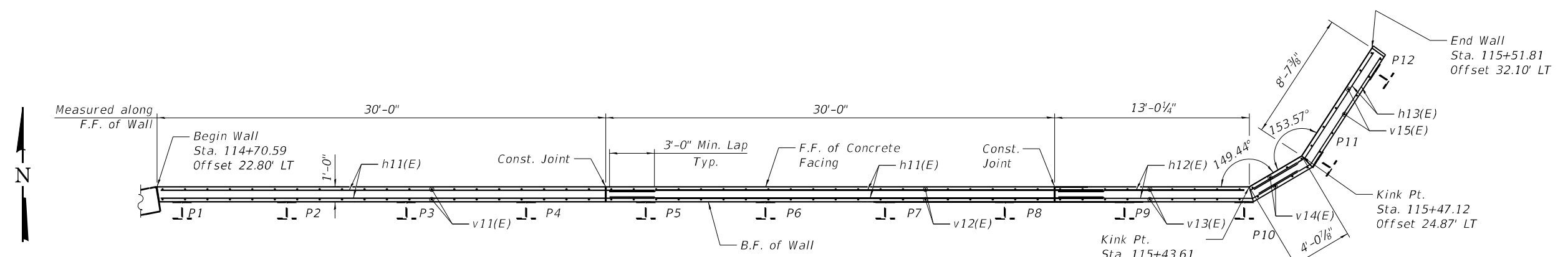
**FIELD CUTTING DIAGRAM #2**

Order bars shown full length. Cut as shown and use remainder of bars in opposite face.



**FIELD CUTTING DIAGRAM #3**

Order bars shown full length. Cut as shown and use remainder of bars in opposite face.



**PLAN**

(Sheet 1 of 2)

**AEG ATLAS ENGINEERING GROUP, LTD.**

USER NAME =	DESIGNED - SPB	REVISED -
PLOT SCALE =	CHECKED - JKL	REVISED -
PLOT DATE =	DRAWN - SPB	REVISED -
	CHECKED - 2/14/2024	REVISED -

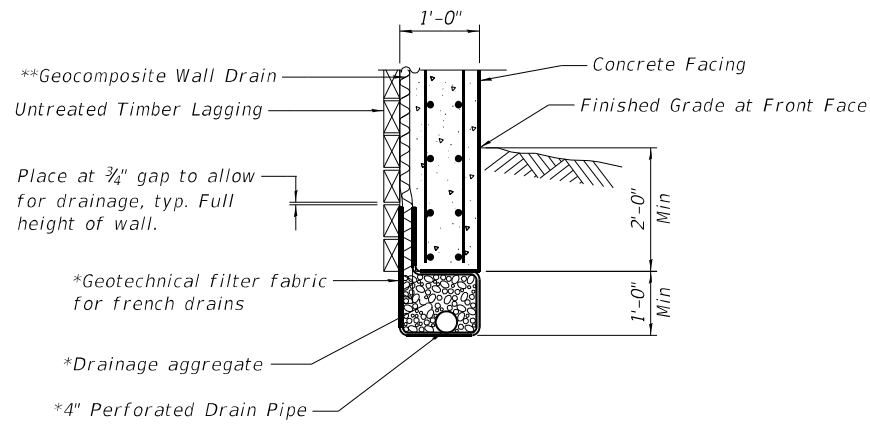
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL STRUCTURAL DETAILS  
 STRUCTURE NO. 016-W2508**

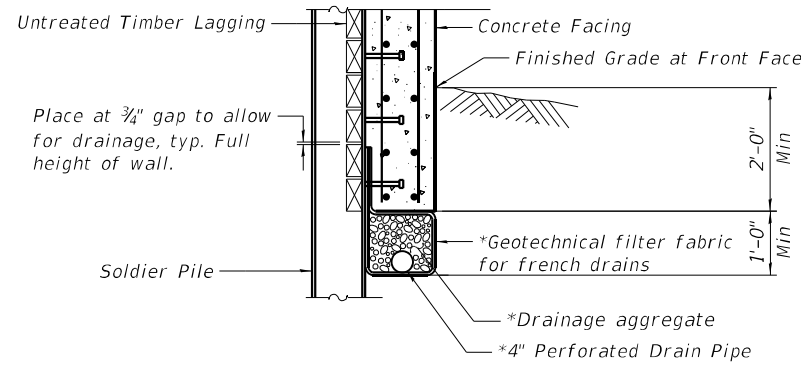
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T94	

**SOLDIER PILE CONSTRUCTION SEQUENCE**

1. Drive soldier piles, confirm or modify soldier pile length to satisfy minimum tip elevation.
2. Excavate in front of wall in stages removing only the soil necessary to place each timber lagging, maintaining a 3/4" gap between each successive lagging to allow ground water flow to the geocomposite wall drain.
3. After lagging has been placed to the depths shown in the plans, the vertical geocomposite wall drains shall be attached to the exposed timber face and connected to the longitudinal wall underdrain as shown on the plans. The sides, top and back are to be protected or covered with non-pervious material.
4. Install shear stud connectors.
5. Construct cast-in-place reinforced concrete facing.



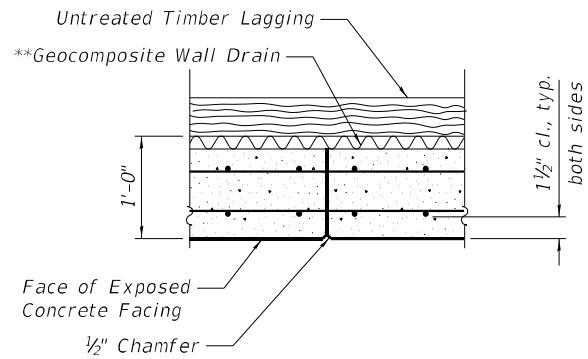
**BETWEEN SOLDIER PILES**



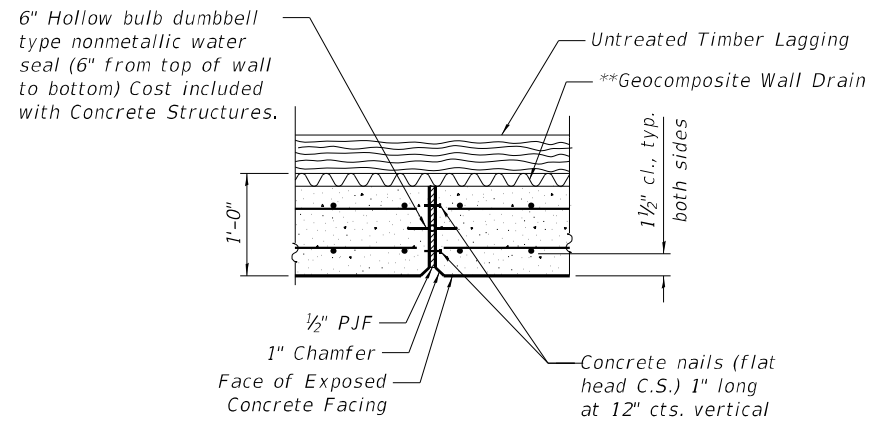
**AT SOLDIER PILES**

**UNDERDRAIN DETAILS**

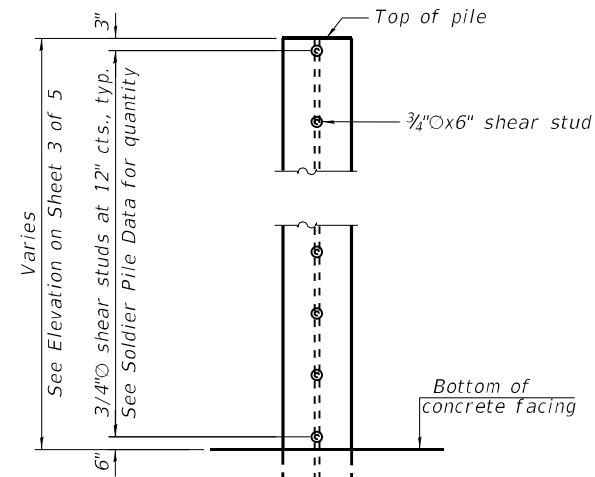
\* Include in the cost of Pipe Underdrains for Structures  
 \*\* Geocomposite Wall Drain not to exceed thickness of 3/4"



**CONSTRUCTION JOINT**



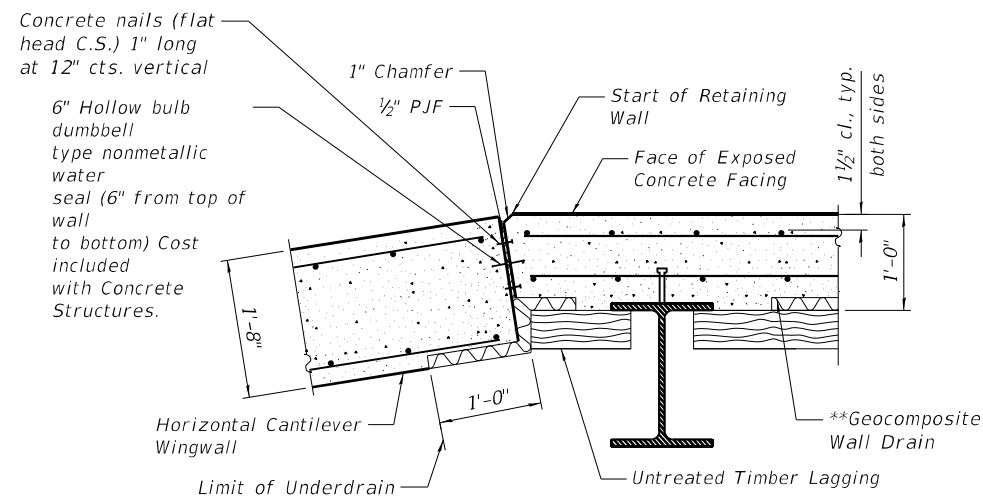
**EXPANSION JOINT**



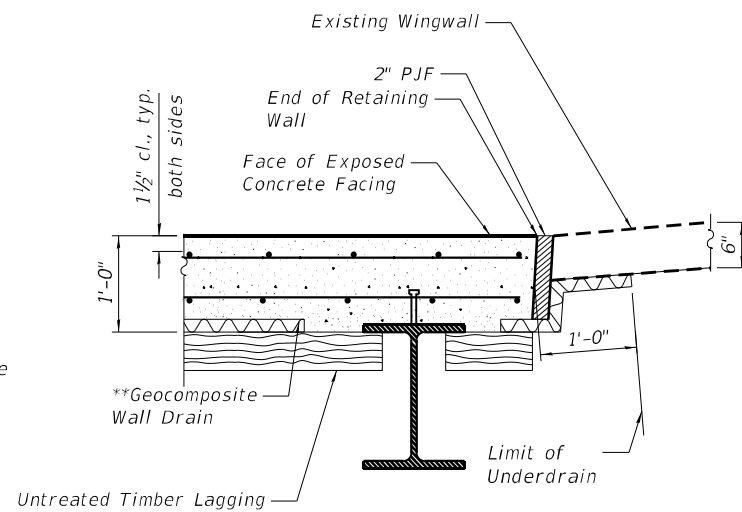
**SHEAR STUD DETAIL**  
 (Elevation of pile shown)

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h11(E)	22	#5	33'-1"	—
h12(E)	12	#5	16'-6"	—
h13(E)	10	#5	12'-4"	—
v11(E)	21	#5	10'-6"	—
v12(E)	21	#5	13'-3"	—
v13(E)	9	#5	13'-0"	—
v14(E)	4	#5	11'-3"	—
v15(E)	7	#5	11'-8"	—
Concrete Structures		Cu. Yd.	20.2	
Stud Shear Connectors		Each	64	
Reinforcement Bars, Epoxy Coated		Pound	1,530	
Pile Shoes		Each	12	
Furnishing Soldier Piles (HP Section)		Foot	218	
Driving Soldier Piles		Foot	218	
Untreated Timber Lagging		Sq. Ft	332	
Geocomposite Wall Drain		Sq. Yd.	36	



**EXPANSION JOINT AT START OF WALL**



**EXPANSION JOINT AT END OF WALL**

**PILE SUMMARY**

Pile No.	Station	Offset to $\bar{c}$ Pile (Ft.)	Pile Size	Top Elevation	Bottom Elevation	Total Pile Length (ft)	#Studs
P1	114+72.27	21.23 LT	HP14x89	659.76	643.09	16.7	4
P2	114+79.27	21.23 LT	HP14x89	659.66	642.59	17.1	4
P3	114+87.27	21.23 LT	HP14x89	659.57	642.03	17.6	5
P4	114+95.27	21.23 LT	HP14x89	659.49	641.46	18.0	5
P5	115+03.27	21.23 LT	HP14x89	659.43	640.98	18.4	6
P6	115+11.27	21.23 LT	HP14x89	659.38	640.70	18.7	6
P7	115+19.27	21.23 LT	HP14x89	659.35	640.41	18.9	6
P8	115+27.27	21.23 LT	HP14x89	659.34	640.12	19.2	6
P9	115+35.27	21.23 LT	HP14x89	659.30	640.38	18.9	6
P10	115+43.27	21.23 LT	HP14x89	659.26	641.04	18.2	5
P11	115+48.64	24.33 LT	HP14x89	658.55	640.93	17.6	5
P12	115+52.46	30.20 LT	HP14x89	657.50	638.95	18.5	6

(Sheet 2 of 2)

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Illinois Department of Transportation  
Division of Highways  
GSG Consultants, Inc.

### SOIL BORING LOG

Page 1 of 1

Date 7/18/22

ROUTE 123rd Street DESCRIPTION Retaining Wall LOGGED BY DD

SECTION 123rd Street LOCATION Palos Park, IL, SEC., TWP. Palos, RNG.

COUNTY COOK DRILLING RIG CME 75 DRILLING METHOD HSA HAMMER TYPE AUTO HAMMER EFF (%) 91

STRUCT. NO.	STATION	BORING NO.	Station	Offset	Ground Surface Elev.	ft	(ft)	(/6")	(tsf)	(%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	N/A	Hrs.	ft	(ft)	(/6")	(tsf)	(%)	DEPT	BULGE	UCS	MOIST
	115+00	B-3	115+14.66	8.70ft LT	661.52						N/A	N/A	650.5														
8 inches of Asphalt																											
5 inches of Concrete																											
Brown, Moist																											
FILL: SILTY CLAY, trace sand, gravel																											
658.02																											
Black and Brown, Moist to Very Moist																											
FILL: SILTY CLAY, trace sand, gravel																											
652.52																											
Stiff Gray, Moist SILTY CLAY, trace gravel, sand (CL/ML)																											
650.52																											
Medium Stiff to Hard Gray, Moist SILTY CLAY LOAM, trace sand, gravel (ML/CL)																											
3 inch Sand Seam at 11.5 feet																											
645.52																											
Loose to Medium Dense Gray, Very Moist SANDY LOAM (SM)																											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
GSG Consultants, Inc.

### SOIL BORING LOG

Page 1 of 1

Date 7/18/22

ROUTE 123rd Street DESCRIPTION Retaining Wall LOGGED BY DD

SECTION 123rd Street LOCATION Palos Park, IL, SEC., TWP. Palos, RNG.

COUNTY COOK DRILLING RIG CME 75 DRILLING METHOD HSA HAMMER TYPE AUTO HAMMER EFF (%) 91

STRUCT. NO.	STATION	BORING NO.	Station	Offset	Ground Surface Elev.	ft	(ft)	(/6")	(tsf)	(%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	N/A	Hrs.	ft	(ft)	(/6")	(tsf)	(%)	DEPT	BULGE	UCS	MOIST
	115+00	B-4	115+57.30	9.10ft LT	661.10						N/A	N/A	655.1														
8 inches of Asphalt																											
5 inches of Concrete																											
Brown, Moist																											
FILL: SILTY CLAY, trace gravel																											
660.02																											
Stiff to Very Stiff Gray, Moist SILTY CLAY LOAM, with sand, trace gravel (ML/CL) (continued)																											
655.10																											
Gray, Moist FILL: SILTY CLAY, with sand, trace gravel																											
651.60																											
Stiff to Very Stiff Gray, Moist SILTY CLAY LOAM, with sand, trace gravel (ML/CL)																											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, form 137 (Rev. 8-99)

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<b>AEG</b> ATLAS ENGINEERING GROUP, LTD.	USER NAME =	DESIGNED - SPB	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SOIL BORING LOGS</b> <b>STRUCTURE NO. 016-W2508</b>	F.A.U. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - SPB	REVISED -			1587	FAU 1587 22 CR	COOK	66	46
PLOT DATE =	CHECKED - 2/23/2024	REVISED -		SHEET 5 OF 5 SHEETS			ILLINOIS FED. AID PROJECT		CONTRACT NO. 62T94	

Bench Mark: Set X on east curb return at 123rd and 93rd Street, Northing 1821627.928, Easting 1117075.114, Elev. 662.609.

Existing Structure: S.N. 016-1359 Original construction year of R.C. double box (4'x4' and 5'x4') is unknown; in 1954 extended 6 ft north and headwalls extended upward by approx. 2.5 ft. Total barrel length is approx. 46'-2".

Traffic to be maintained by a detour.

No salvage.

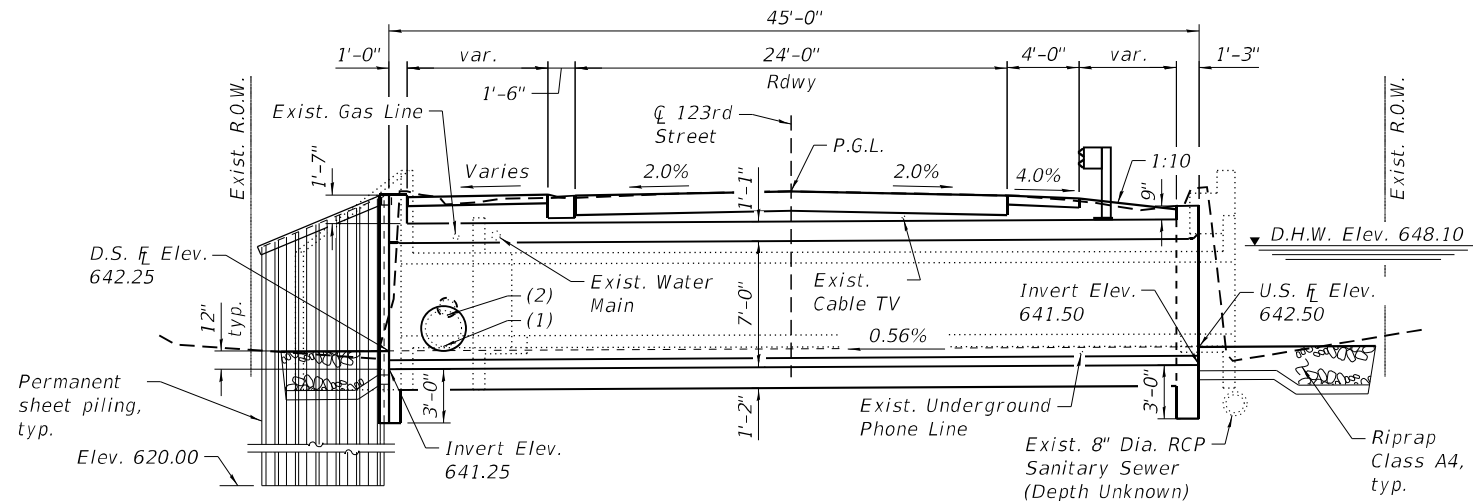
Precast alternate is not allowed.

- (1) Exist. 24" Dia. RCP Storm Sewer  
Inv. Elev. 642.51 (E. Wall)
- (2) Exist. 10" Dia. RCP Storm Sewer  
Inv. Elev. 644.26 (W. Wall)

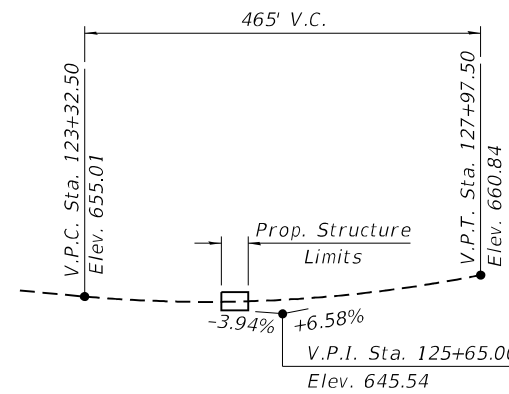
**WATERWAY INFORMATION**

Drainage Area= 6.5 square miles		Existing Overtopping Elev. = 651.11 at Sta 125+15		Proposed Overtopping Elev. = 651.11 at Sta 125+15					
Flood Event	Freq. Yr.	Discharge ft <sup>3</sup> /s	Waterway Opening-ft <sup>2</sup>		Head -ft		Headwater Elevation-ft		
			Existing	Proposed	Existing	Proposed	Existing	Proposed	
Design	10	166	36.0	49.2	646.60	0.42	0.16	647.02	646.76
Base	50	380	36.0	67.2	648.10	2.59	0.51	650.69	648.61
Overtop Existing	100	468	36.0	71.5	648.46	3.01	0.72	651.47	649.18
Overtop Proposed	74	413	36.0	69.0	-	-	-	651.11	-
Max. Calc.	247	782	36.0	72.0	-	-	-	651.11	-
	500	1321	36.0	72.0	650.96	1.99	1.62	652.95	652.58

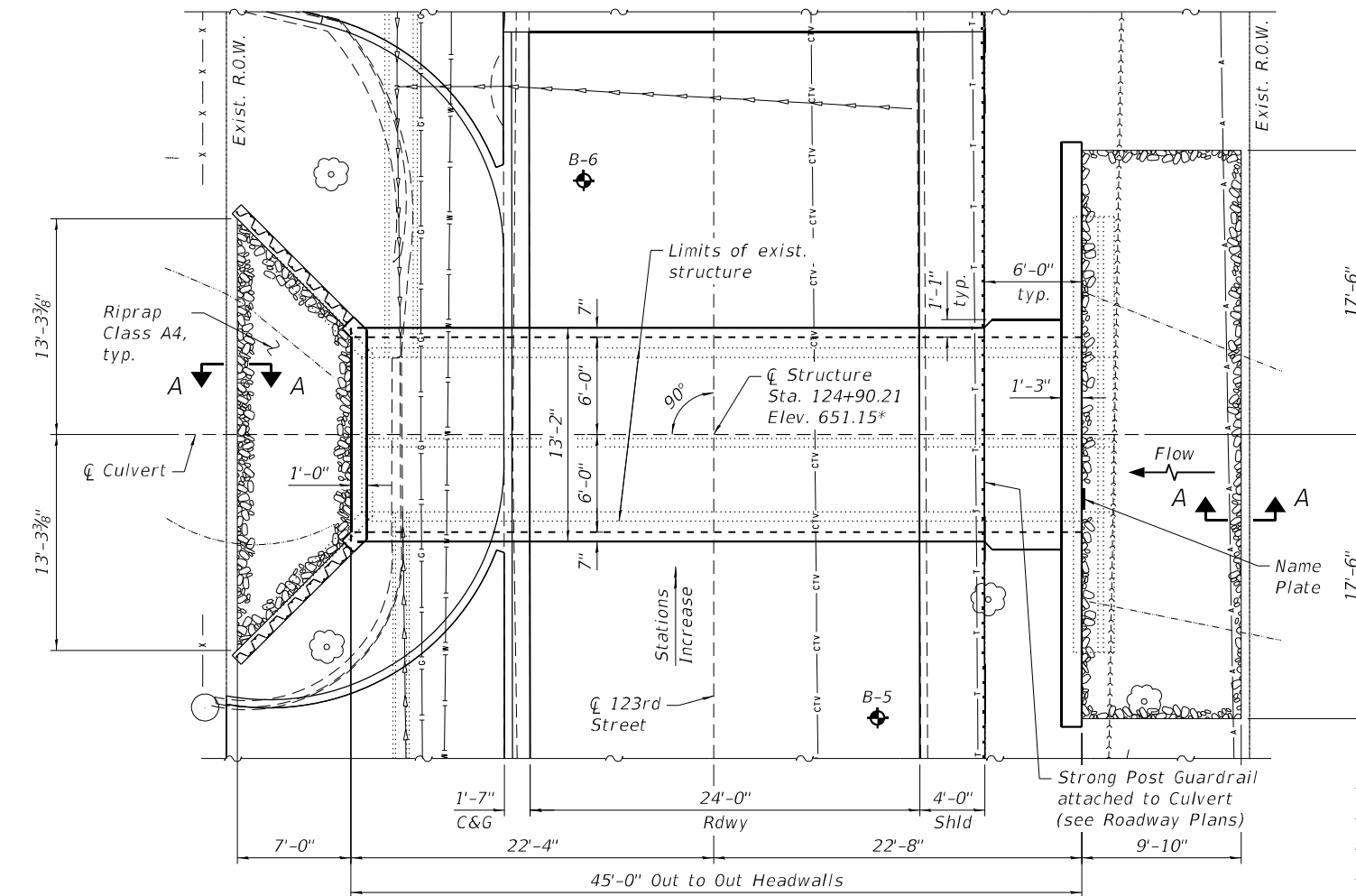
10 year velocity through Existing Structure = 4.6 ft/s  
 10 year velocity through Proposed Structure = 3.4 ft/s  
 2 year flow rate = 55 ft<sup>3</sup>/s



**LONGITUDINAL SECTION**

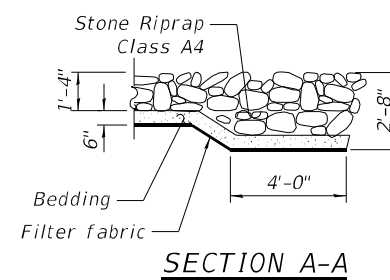


**EXIST. PROFILE GRADE**  
(123rd Street)  
(Approximated from survey)



**PLAN**

\* Approximated from survey



**SECTION A-A**

**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.

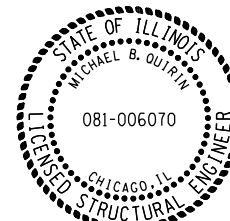
**DESIGN STRESSES**

**FIELD UNITS:**

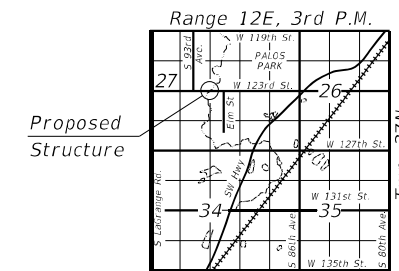
f<sub>c</sub> = 3,500 psi  
 f<sub>y</sub> = 60,000 psi (Reinforcement)  
 f<sub>y</sub> = 50,000 psi (Permanent Sheet Piling)

**LEGEND**

- ◆ BSB (Bridge Soil Boring)
- A — Existing Aerial Lines
- G — Existing Underground Gas Line
- W — Existing Underground Water Line
- CTV — Existing Underground Cable TV
- S — Existing Sanitary Sewer
- SS — Existing Storm Sewer
- T — Existing Underground Phone Line
- x — Existing Fence



Signed: *Michael B. Quirin*  
 Date: 02/20/2024  
 Expires: 11/30/2024  
 Sheets: 40-45



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**123RD STREET/McCARTHY ROAD**  
**OVER MILL CREEK**  
**F.A.U. RTE. 1587**  
**SEC. FAU 1587 22 CR**  
**COOK COUNTY**  
**STATION 124+90.21**  
**STRUCTURE NO. 016-8300**

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

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NO. 016-8300**

SHEET 1 OF 6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	47
CONTRACT NO. 62T94				

ILLINOIS FED. AID PROJECT PROT-15P0118

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USER NAME =	DESIGNED - RGB	REVISIONS -
PLOT SCALE =	CHECKED - MBQ	REVISIONS -
PLOT DATE = 4/22/2024	DRAWN - JM	REVISIONS -
	CHECKED - RGB	REVISIONS -

**GENERAL NOTES**

- Layout of the stream protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Cost of excavation and backfill included in Concrete Box Culverts.

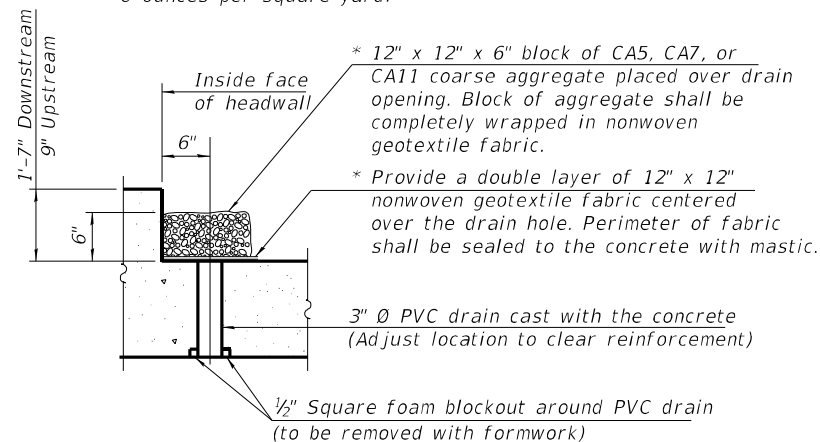
**INDEX OF SHEETS**

- General Plan & Elevation
- General Notes, Index of Sheets & Total Bill of Materials
- Culvert Details (1 of 2)
- Culvert Details (2 of 2)
- Soil Boring Logs (1 of 2)
- Soil Boring Logs (2 of 2)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Stone Riprap, Class A4	Sq. Yd.	54
Filter Fabric	Sq. Yd.	54
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	15,860
Name Plates	Each	1
Permanent Sheet Piling	Sq. Ft.	582
Concrete Box Culverts	Cu. Yd.	80.6
Geocomposite Wall Drain	Sq. Yd.	77
Membrane Waterproofing System for Buried Structures	Sq. Yd.	77

\* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

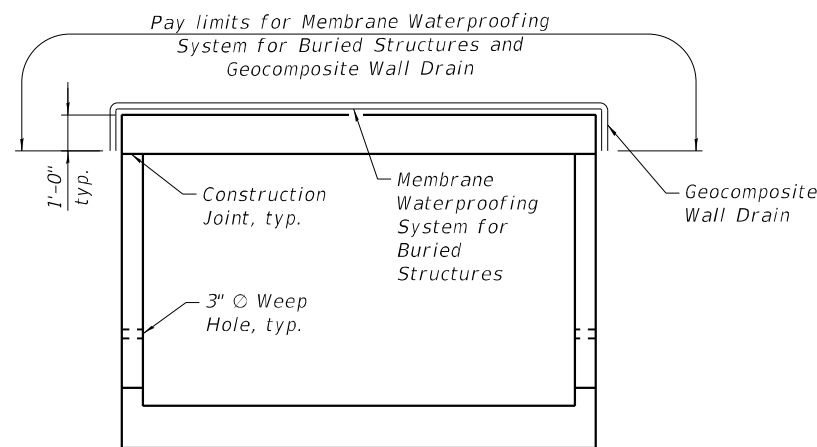


**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

STATION 124+90.21  
 BUILT 202\_ BY  
 STATE OF ILLINOIS  
 F.A.U. RTE. 1587  
 SEC. FAU 1587 22 CR  
 LOADING HL-93  
 STR. NO. 016-8300

**NAME PLATE**  
 See Std. 515001



**MEMBRANE WATERPROOFING AND GEOCOMPOSITE WALL DRAIN DETAIL**

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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**HDR**  
 HDR  
 9450 W. BRYN MAWR AVE.  
 ROSEMONT, IL 60018

USER NAME =	DESIGNED - RGB	REVISED -
	CHECKED - MBQ	REVISED -
PLOT SCALE =	DRAWN - JM	REVISED -
PLOT DATE = 4/22/2024	CHECKED - RGB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

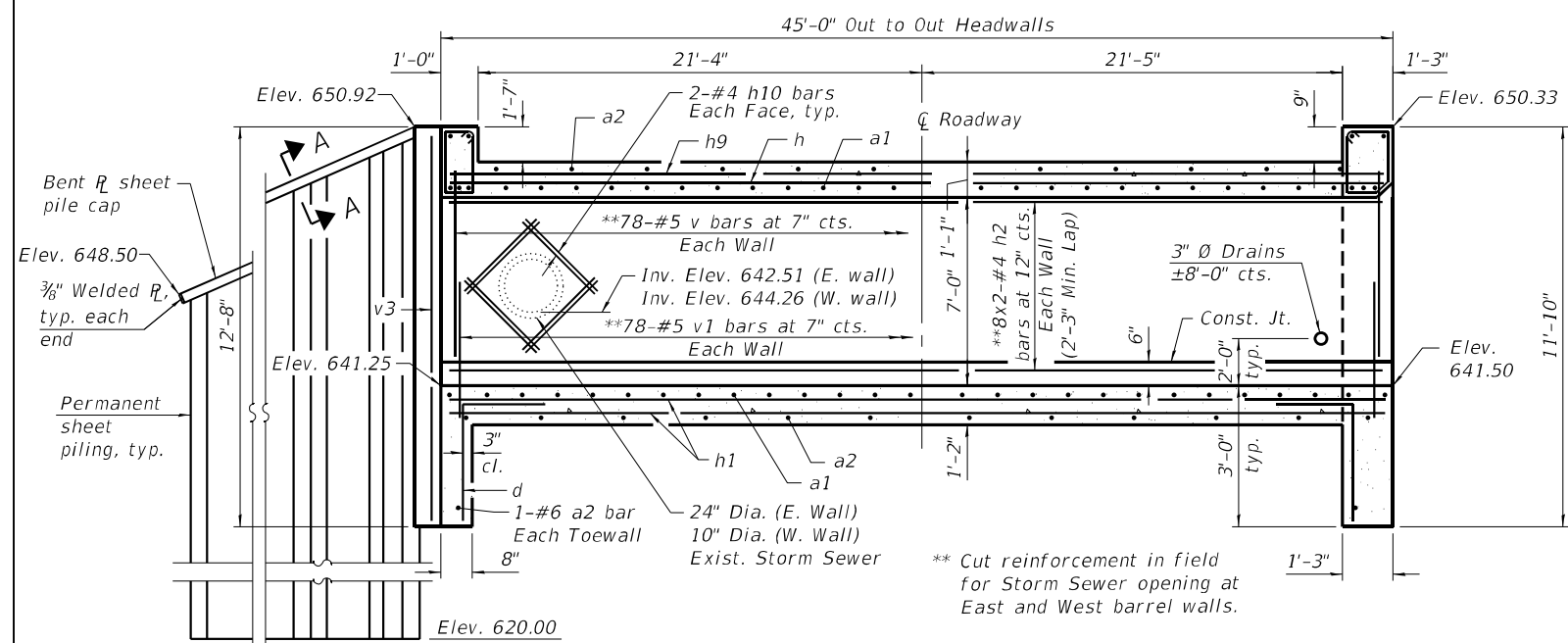
**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIALS  
 STRUCTURE NO. 016-8300**

SHEET 2 OF 6 SHEETS

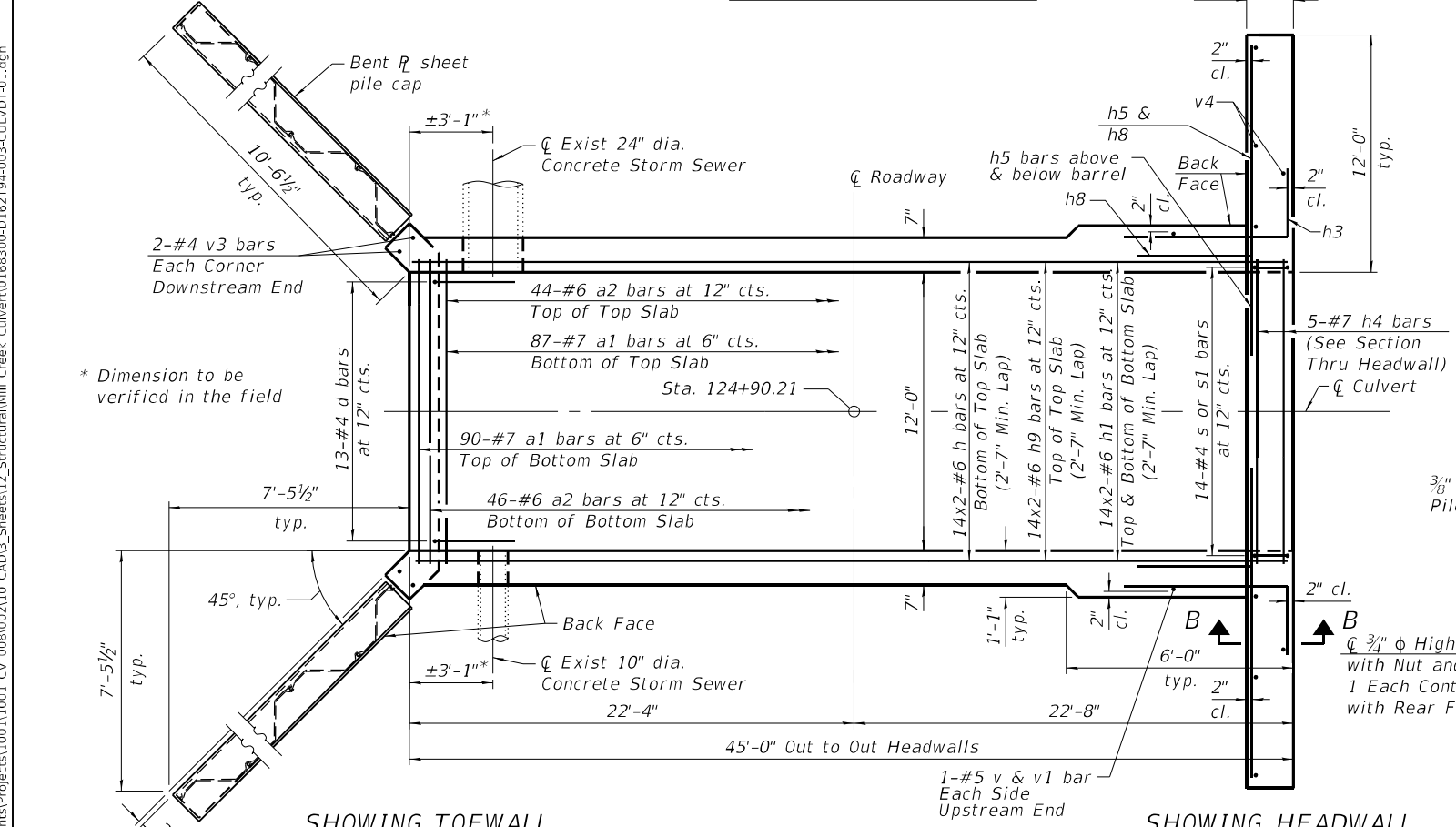
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	48
			CONTRACT NO. 62T94	
		ILLINOIS	FED. AID PROJECT	PROT-5POL118



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**LONGITUDINAL SECTION**

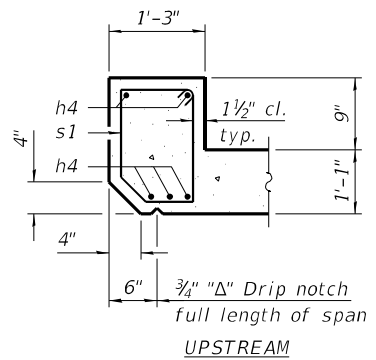


**SHOWING TOEWALL**

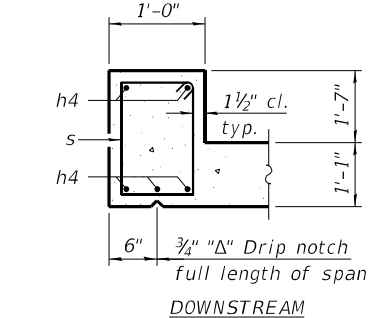
**PLAN**

**SHOWING HEADWALL**

**Notes:**  
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.  
 Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line. At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.  
 The minimum effective section modulus of the permanent steel sheet pile wall shall be 22.4 in.<sup>3</sup>/ft.  
 Sheet piling shall not be driven until the concrete strength has attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.  
 The cost of furnishing and installing the bent R sheet pile cap, elastomeric mat, and filter fabric shall be included in the cost of Permanent Sheet Piling.

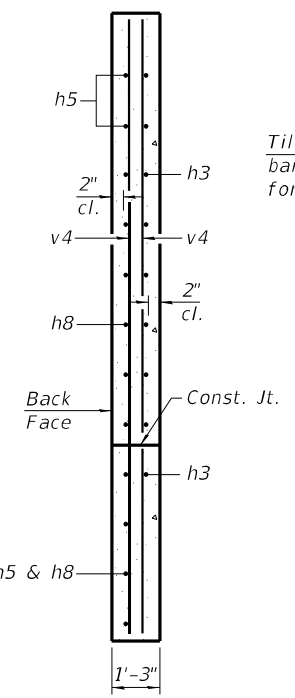


**SECTION THRU HEADWALL UPSTREAM**

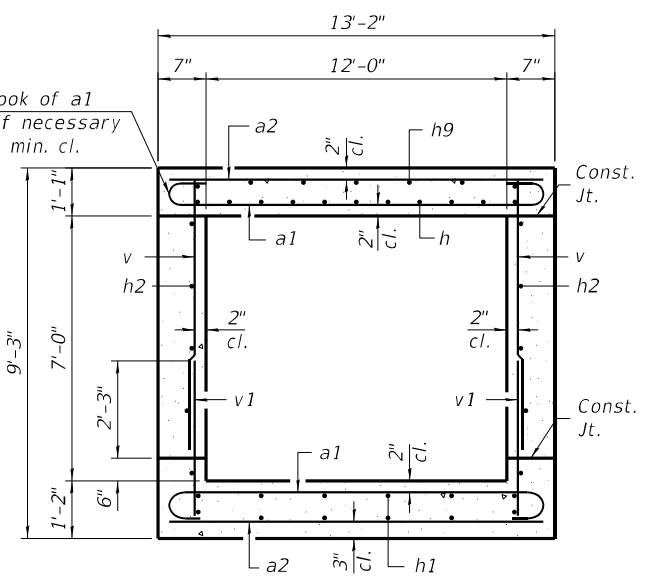


**SECTION THRU HEADWALL DOWNSTREAM**

**SECTION THRU HEADWALL**



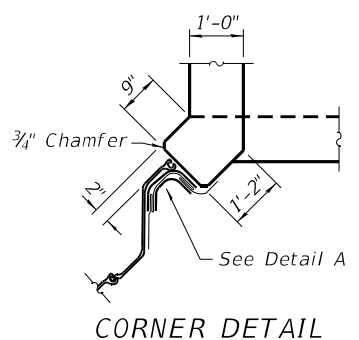
**SECTION B-B**



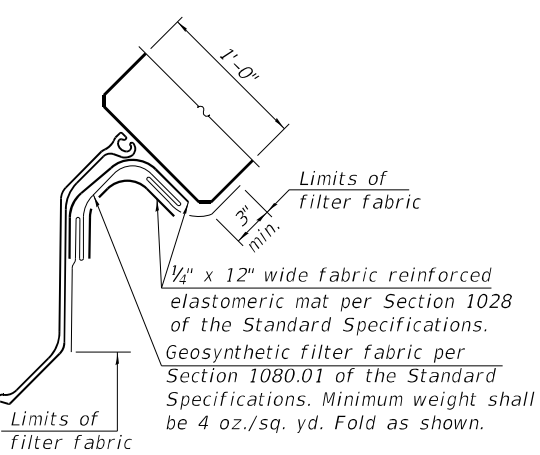
**SECTION THRU BARREL**

**BILL OF MATERIAL**

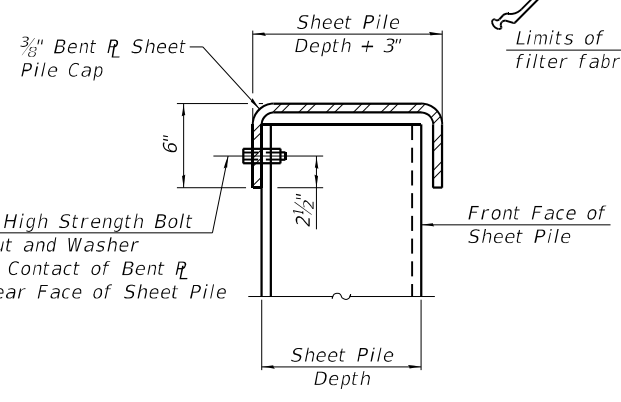
Bar	No.	Size	Length	Shape
a1	177	#7	14'-6"	U
a2	92	#6	12'-10"	—
d	26	#4	4'-5"	L
h	28	#6	23'-8"	—
h1	56	#6	23'-8"	—
h2	32	#4	23'-6"	—
h3	30	#7	8'-0"	L
h4	10	#7	12'-6"	—
h5	12	#7	14'-0"	—
h8	36	#7	14'-7"	L
h9	28	#6	23'-8"	—
h10	32	#4	4'-0"	—
s	14	#4	7'-1"	U
s1	14	#4	5'-10"	U
v	158	#5	7'-4"	—
v1	158	#5	3'-8"	—
v3	4	#4	12'-3"	—
v4	8	#4	11'-5"	—
Concrete Box Culverts	Cu. Yd.	80.6		
Reinforcement Bars	Pound	15,860		
Permanent Sheet Piling	Sq. Ft.	582		



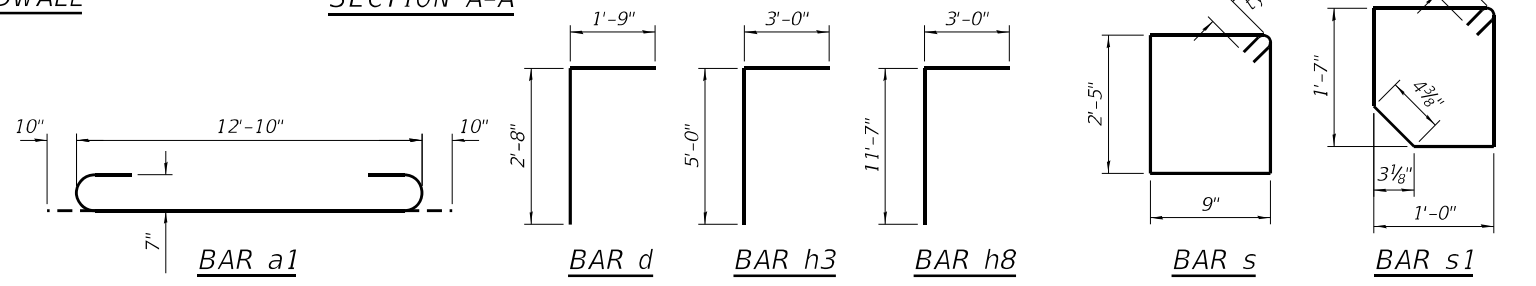
**CORNER DETAIL**



**DETAIL A**



**SECTION A-A**

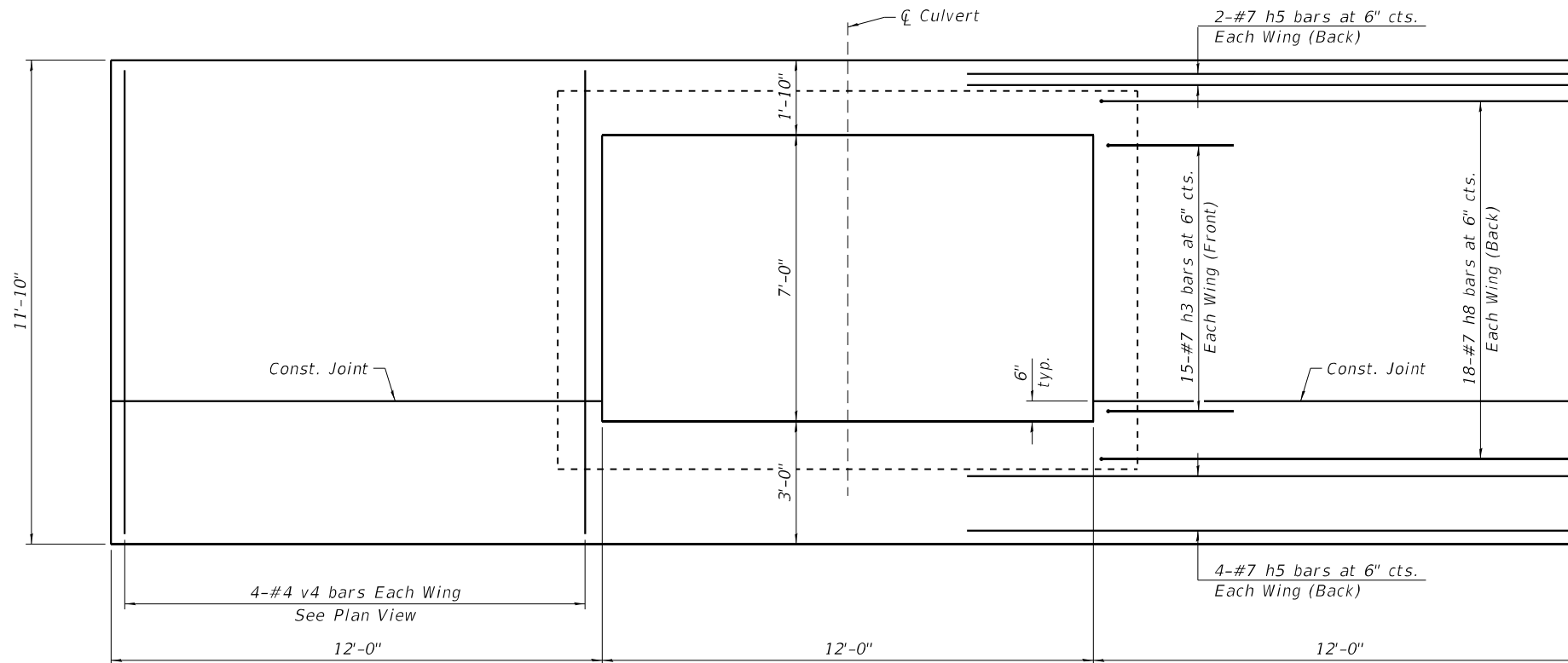


**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS (1 OF 2)  
 STRUCTURE NO. 016-8300**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	49
CONTRACT NO. 62T94				
ILLINOIS / FED. AID PROJECT / PROT-SP01(118)				

SHEET 3 OF 6 SHEETS



**UPSTREAM END ELEVATION**  
 (Looking North)  
 (Toewall and Headwall reinforcement not shown for clarity)

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USER NAME =	DESIGNED - RGB	REVISED -
	CHECKED - MBQ	REVISED -
PLOT SCALE =	DRAWN - JM	REVISED -
PLOT DATE = 4/22/2024	CHECKED - RGB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS (2 OF 2)  
 STRUCTURE NO. 016-8300**

SHEET 4 OF 6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	50
CONTRACT NO. 62T94				
ILLINOIS		FED. AID PROJECT	PROT-5POL118	



# SOIL BORING LOG

Date 7/19/22

ROUTE 123rd Street DESCRIPTION East Culvert LOGGED BY AA

SECTION 123rd Street LOCATION Palos Park, IL, SEC. TWP. Palos, RNG.

COUNTY COOK DRILLING RIG CME 75 DRILLING METHOD HSA HAMMER TYPE AUTO HAMMER EFF (%) 91

STRUCT. NO. SN 016-8300 Station 124+90 BORING NO. B-5 Station 124+72.77 Offset 10.09ft RT Ground Surface Elev. 651.56 ft

Table with columns for Depth (ft), Blows (6"), Soil Type, and SPT values. Includes soil descriptions like 'Dark Brown, Moist SILTY CLAY, trace sand, gravel' and 'Medium Stiff Gray, Moist SILTY CLAY LOAM, with sand, trace gravel (ML/CL)'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



# SOIL BORING LOG

Date 7/19/22

ROUTE 123rd Street DESCRIPTION East Culvert LOGGED BY AA

SECTION 123rd Street LOCATION Palos Park, IL, SEC. TWP. Palos, RNG.

COUNTY COOK DRILLING RIG CME 75 DRILLING METHOD HSA HAMMER TYPE AUTO HAMMER EFF (%) 91

STRUCT. NO. SN 016-8300 Station 124+90 BORING NO. B-5 Station 124+72.77 Offset 10.09ft RT Ground Surface Elev. 651.56 ft

Table with columns for Depth (ft), Blows (6"), Soil Type, and SPT values. Includes soil descriptions like 'Very Stiff Gray, Moist SILTY CLAY, trace sand, gravel (CL/ML)' and 'Loose Gray, Moist SAND, trace gravel (SP)'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

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Note: For location of Soil Boring, see sheet 1 of 6.



Table with columns for USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, and their respective values.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (1 OF 2) STRUCTURE NO. 016-8300 SHEET 5 OF 6 SHEETS

Table with columns for F.A.U. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.



Illinois Department of Transportation  
Division of Highways  
GSG Consultants, Inc.

### SOIL BORING LOG

Page 1 of 2

Date 7/19/22

ROUTE 123rd Street DESCRIPTION East Culvert LOGGED BY AA

SECTION 123rd Street LOCATION Palos Park, IL, SEC., TWP. Palos, RNG.,

COUNTY COOK DRILLING RIG CME 75 DRILLING METHOD HSA HAMMER TYPE AUTO HAMMER EFF (%) 91

STRUCT. NO. SN 016-8300  
Station 124+90  
BORING NO. B-6  
Station 125+5.85  
Offset 7.82ft LT  
Ground Surface Elev. 651.24 ft

DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)
0				8.5 inches of Asphalt 9 inches of Concrete				
649.82	5			Brown, Moist FILL: SILTY CLAY, trace gravel	4	2.9	14	
	2	10	15					
	2	B						
	1							
	2		23			1.3	10	
	1					4	B	
644.74	1	08	22	Medium Stiff Gray, Moist SILTY CLAY, with sand, trace gravel (CL/ML)	2	2.3	14	
	2	B						
642.74	1			Stiff Gray, Moist SILTY CLAY, trace sand, gravel (CL/ML)	3	1.9	16	
	3	20	18					
	4	B						
640.24	2		22	Very Stiff Gray, Moist SILTY CLAY LOAM, trace sand, gravel (ML/CL)	3	6	15	
	3	2.1						
	8	B						
	1							
	3	2.3	18	Medium Dense Gray, Moist to Very Moist SILTY LOAM, with sand, trace gravel (ML)	3	6	15	
	5	B						
635.24	3		17	Stiff to Very Stiff Gray, Moist SILTY CLAY, trace sand, gravel (CL/ML)	5	3.0	14	
	4	2.5						
	9	B						
	1							
	5	3.3	19	Very Stiff	10	12	P	
	7	B						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
GSG Consultants, Inc.

### SOIL BORING LOG

Page 2 of 2

Date 7/19/22

ROUTE 123rd Street DESCRIPTION East Culvert LOGGED BY AA

SECTION 123rd Street LOCATION Palos Park, IL, SEC., TWP. Palos, RNG.,

COUNTY COOK DRILLING RIG CME 75 DRILLING METHOD HSA HAMMER TYPE AUTO HAMMER EFF (%) 91

STRUCT. NO. SN 016-8300  
Station 124+90  
BORING NO. B-6  
Station 125+5.85  
Offset 7.82ft LT  
Ground Surface Elev. 651.24 ft

DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)
				Gray, Moist SILTY CLAY, trace sand, gravel (CL/ML)				
				End of Boring				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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Note:  
For location of Soil Boring, see sheet 1 of 6.

**HDR**  
HDR  
9450 W. BRYN MAWR AVE.  
ROSEMONT, IL 60018

USER NAME =	DESIGNED - RGB	REVISED -
PLOT SCALE =	CHECKED - MBQ	REVISED -
PLOT DATE = 4/22/2024	DRAWN - JM	REVISED -
	CHECKED - RGB	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (2 OF 2)  
STRUCTURE NO. 016-8300

F.A.U. RTE. 1587	SECTION FAU 1587 22 CR	COUNTY COOK	TOTAL SHEETS 66	SHEET NO. 52
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT PROT-5PO118				

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**AEG** ATLAS ENGINEERING GROUP, LTD.

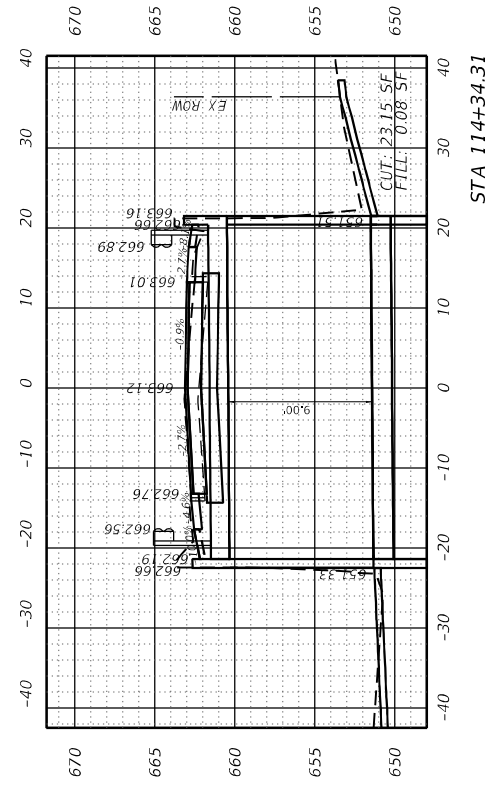
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

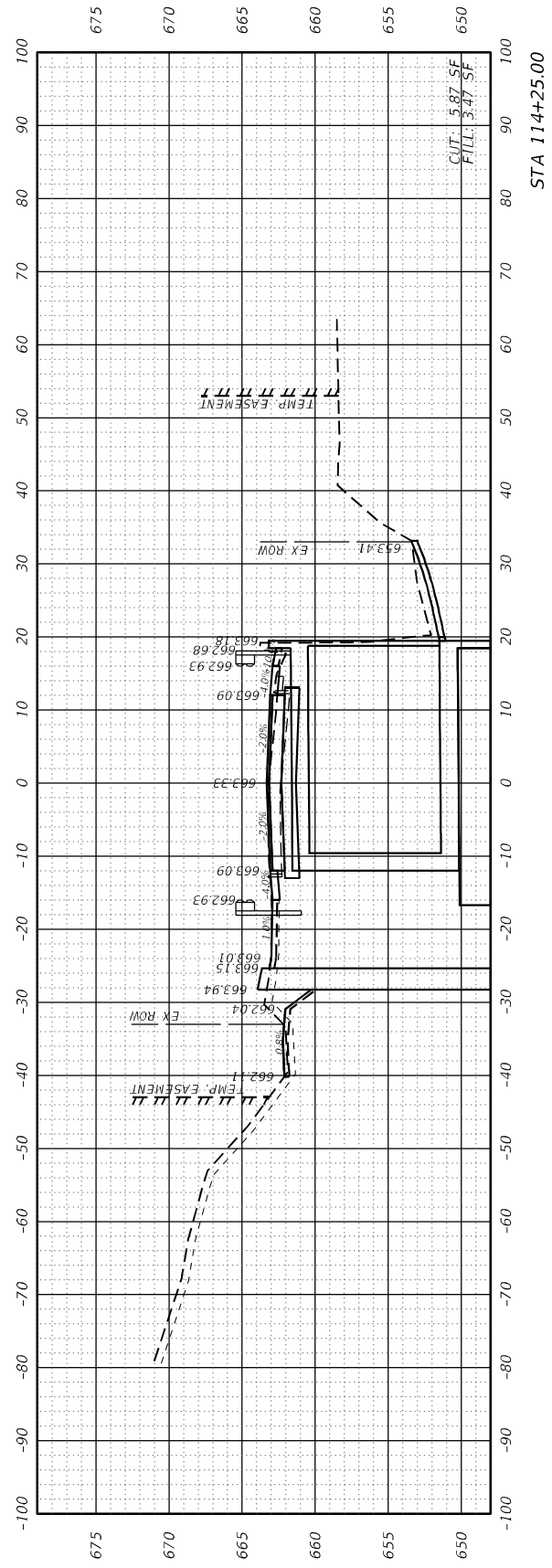
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 123RD STREET**

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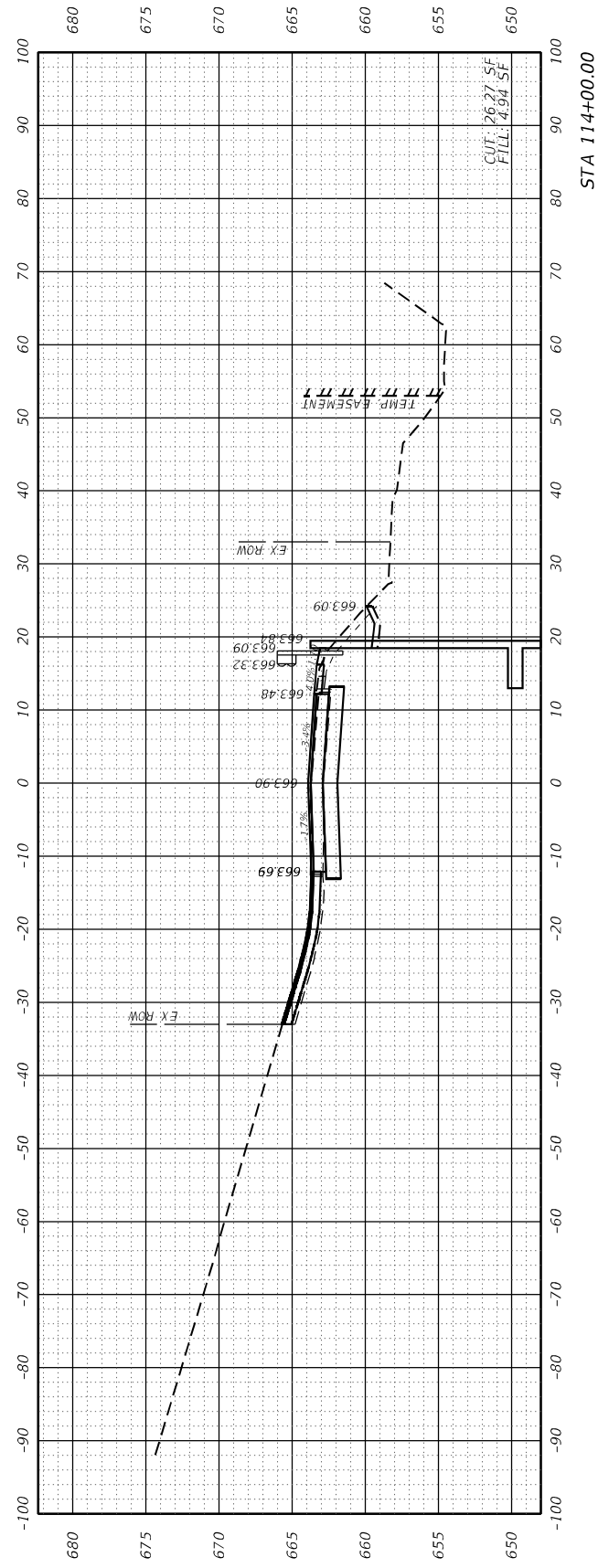
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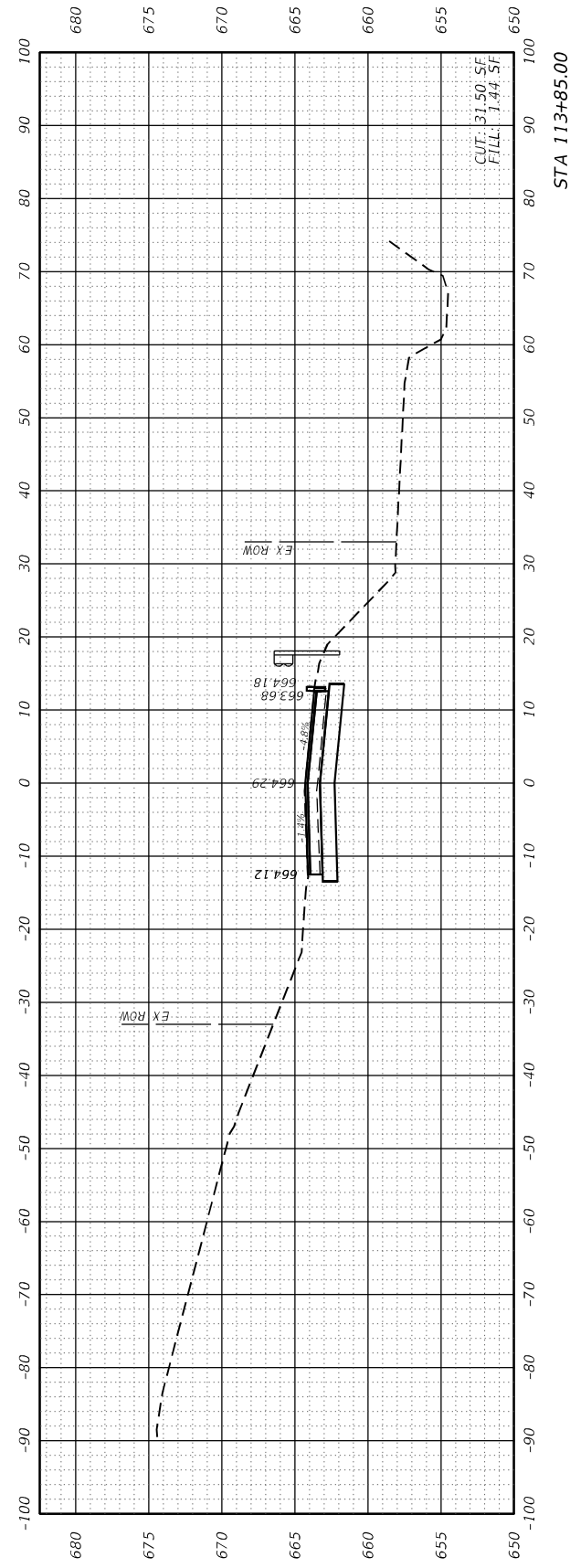
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STA 114+00.00

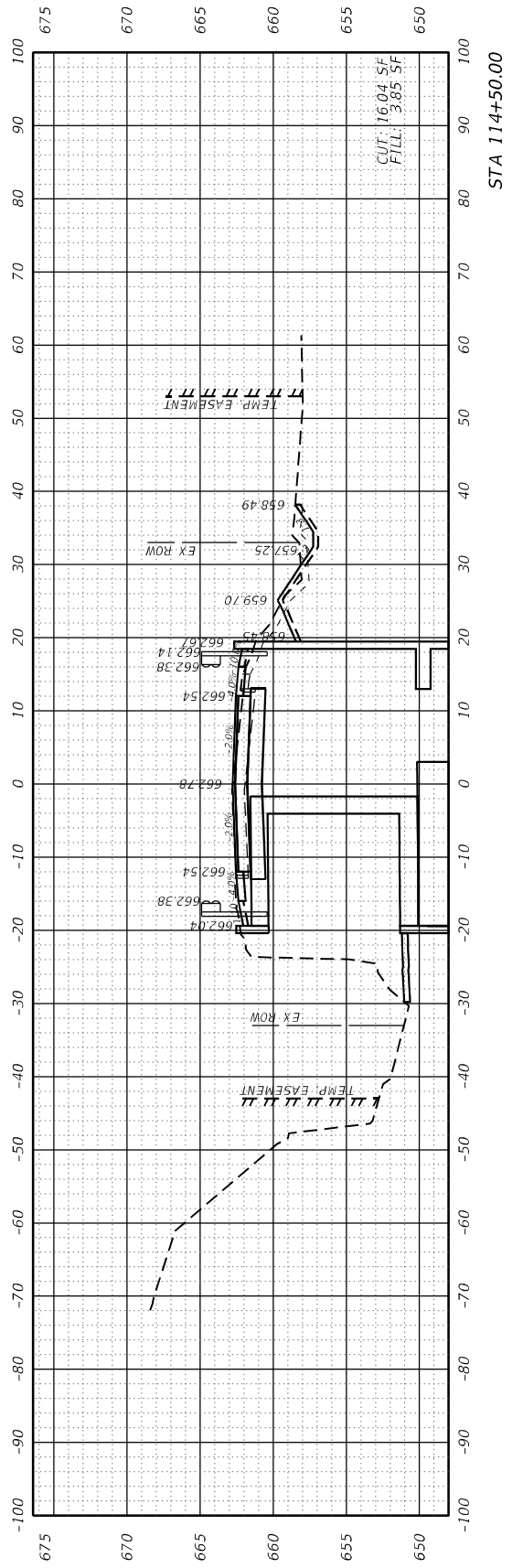
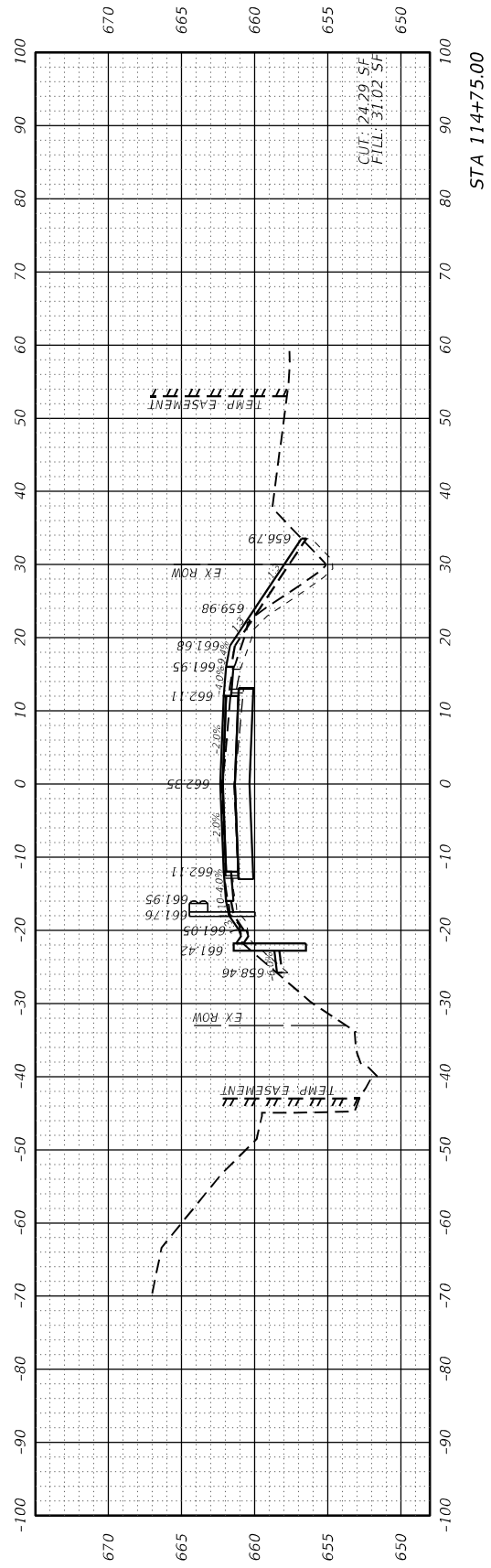
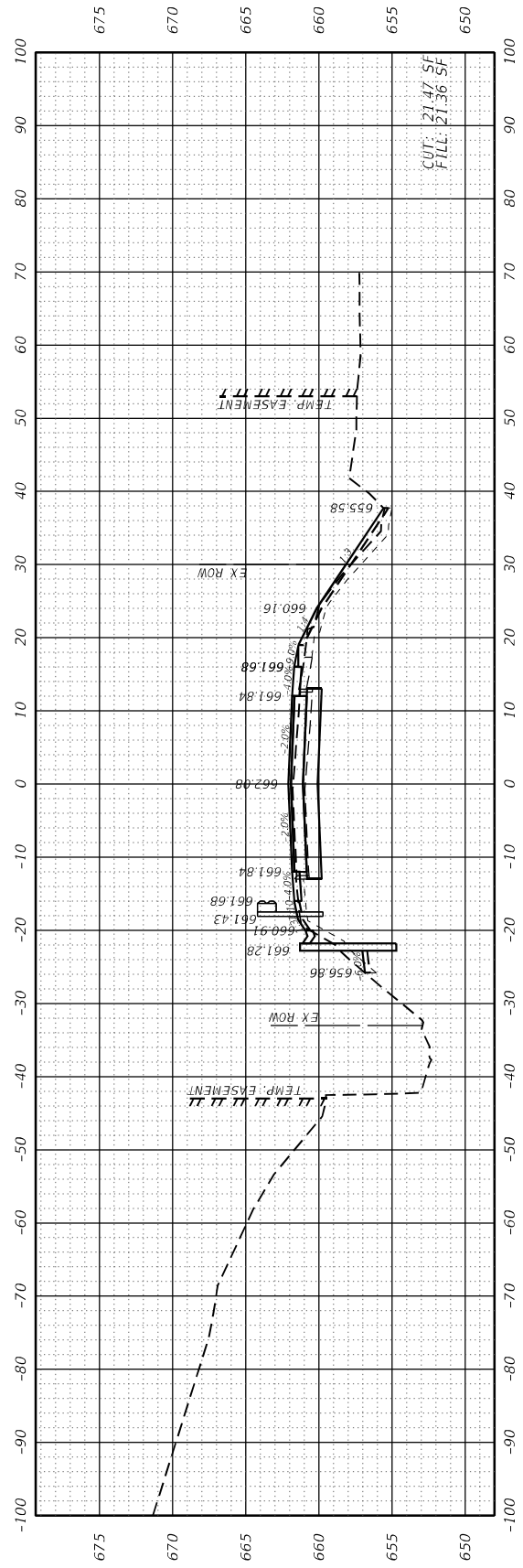
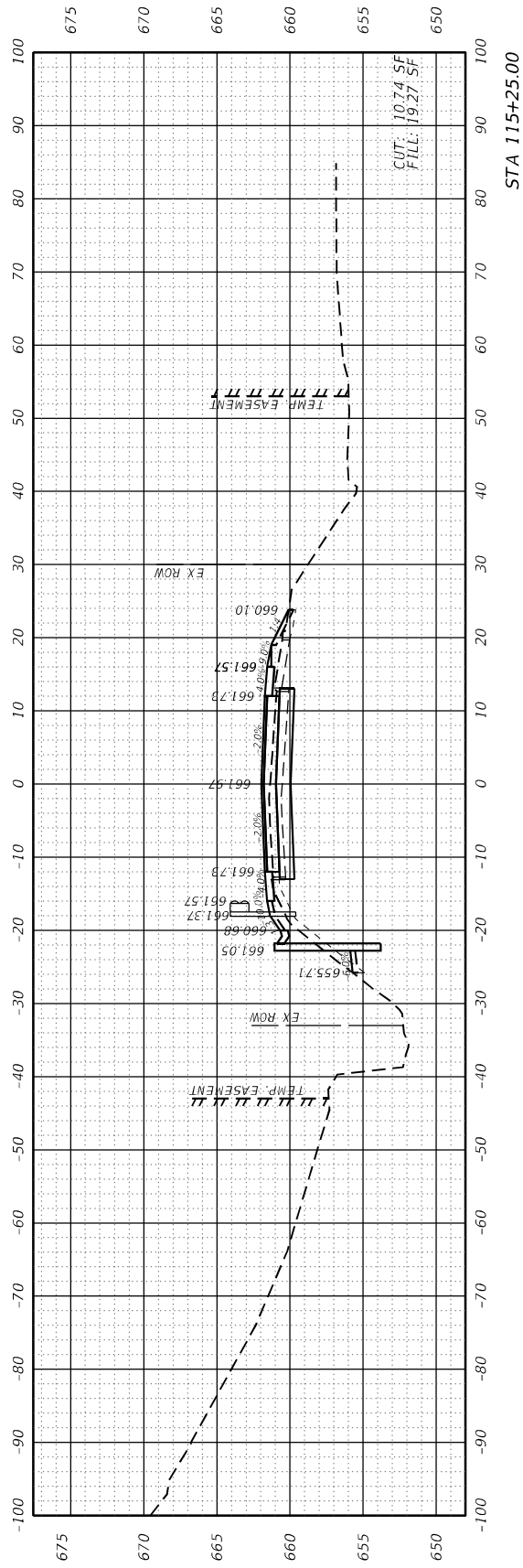


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NOTE BOOK	TEMP. EASEMENT		

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 123RD STREET**

SCALE: 1"=5' SHEET 2 OF 5 SHEETS STA.

F.A.U. RTE. 1587	SECTION FAU 1587 22 CR	COUNTY COOK	TOTAL SHEETS 66	SHEET NO. 54
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T94	

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**AEG** ATLAS ENGINEERING GROUP, LTD.

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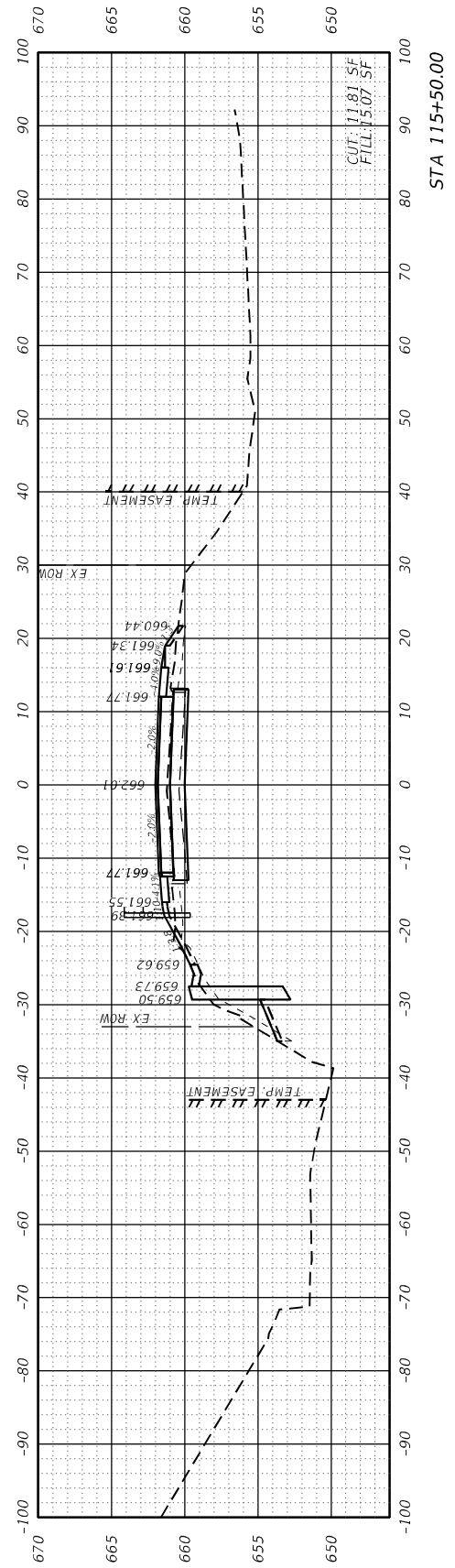
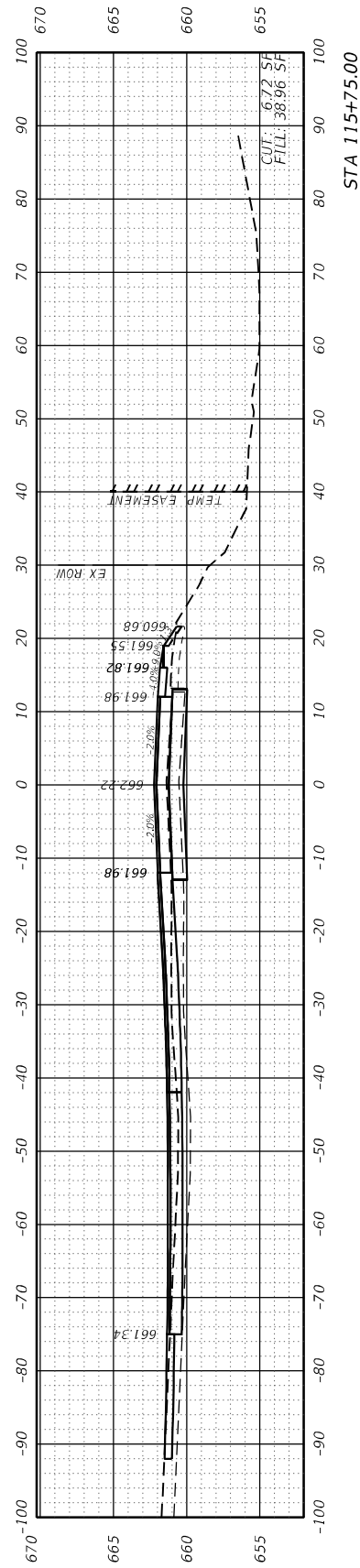
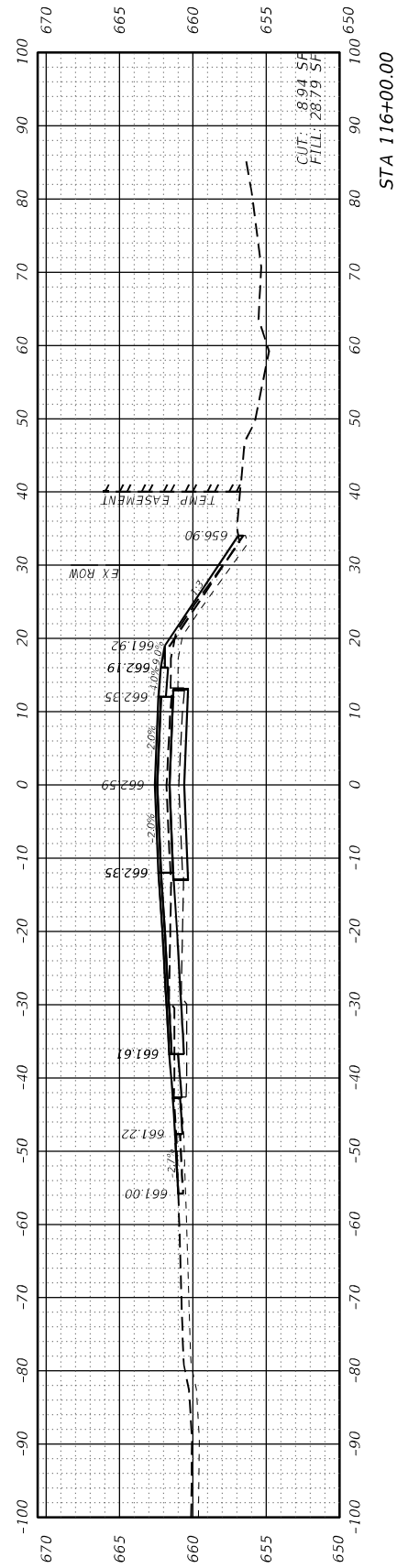
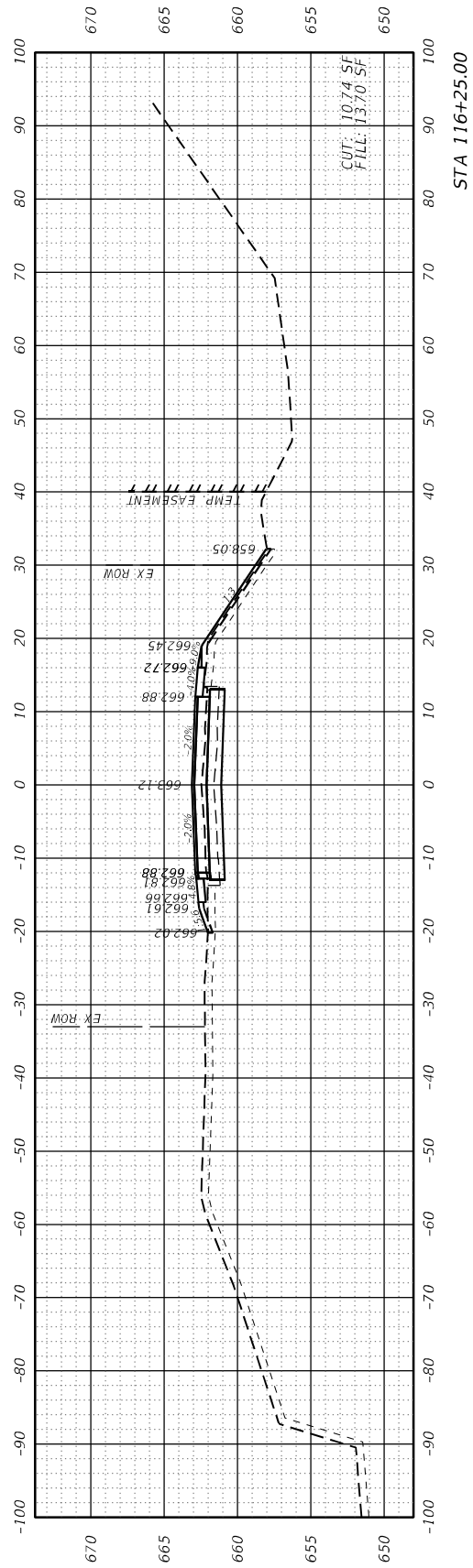
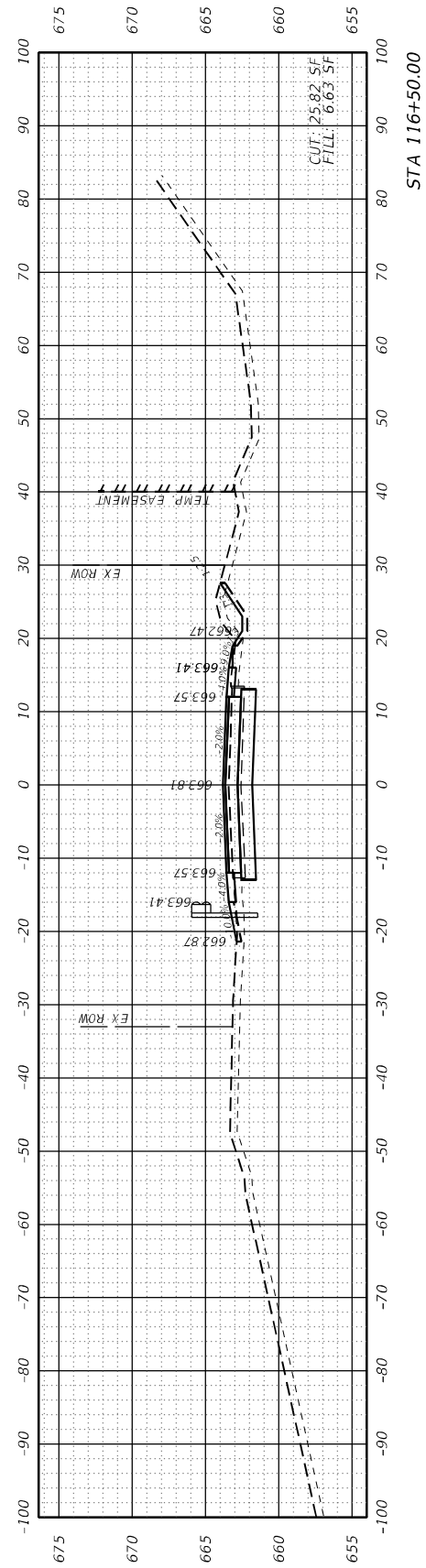
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
123RD STREET**

SCALE: 1"=5' SHEET 3 OF 5 SHEETS STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	55
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				



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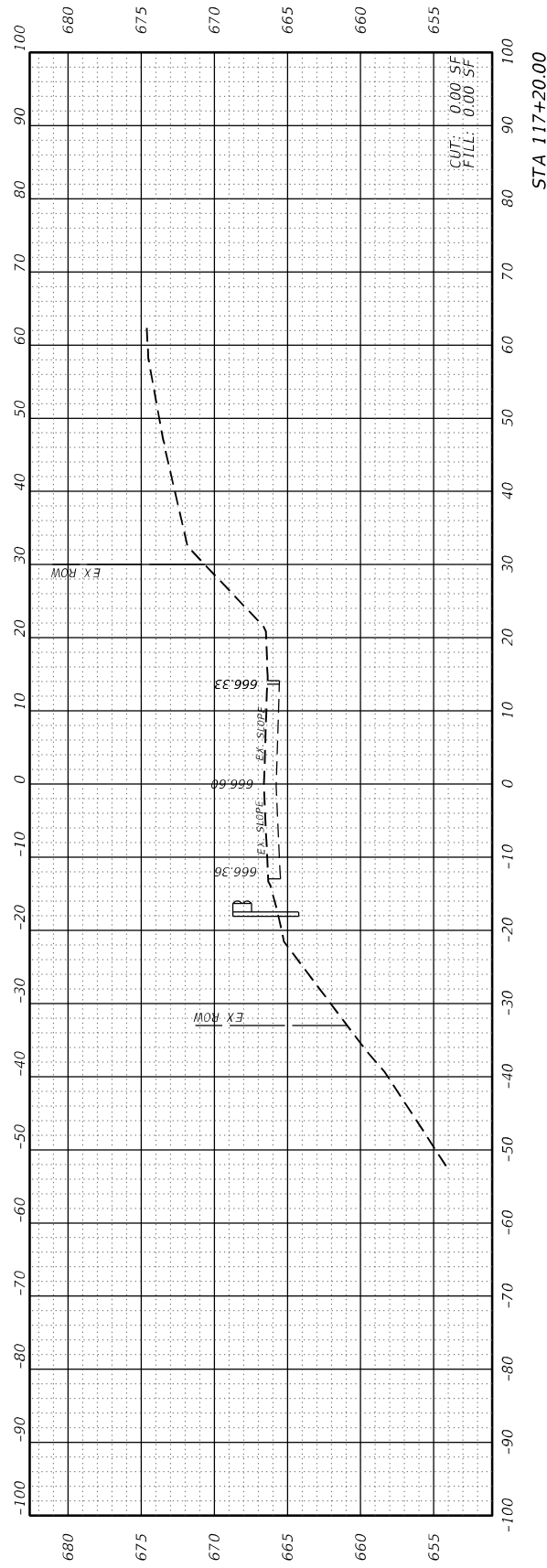
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

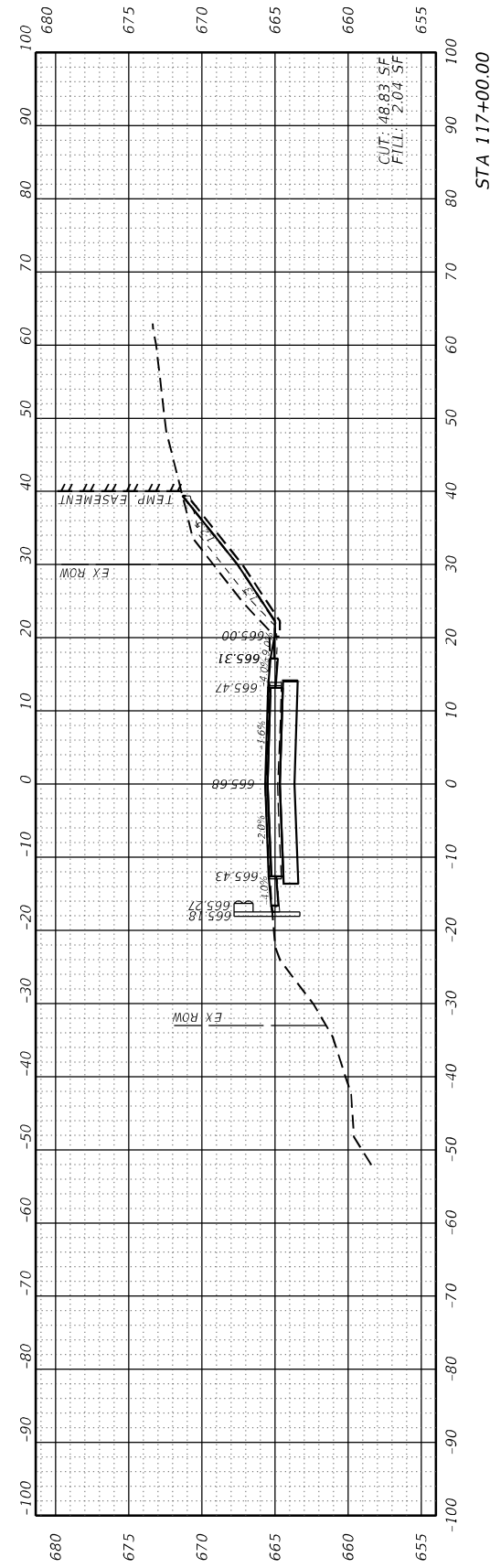
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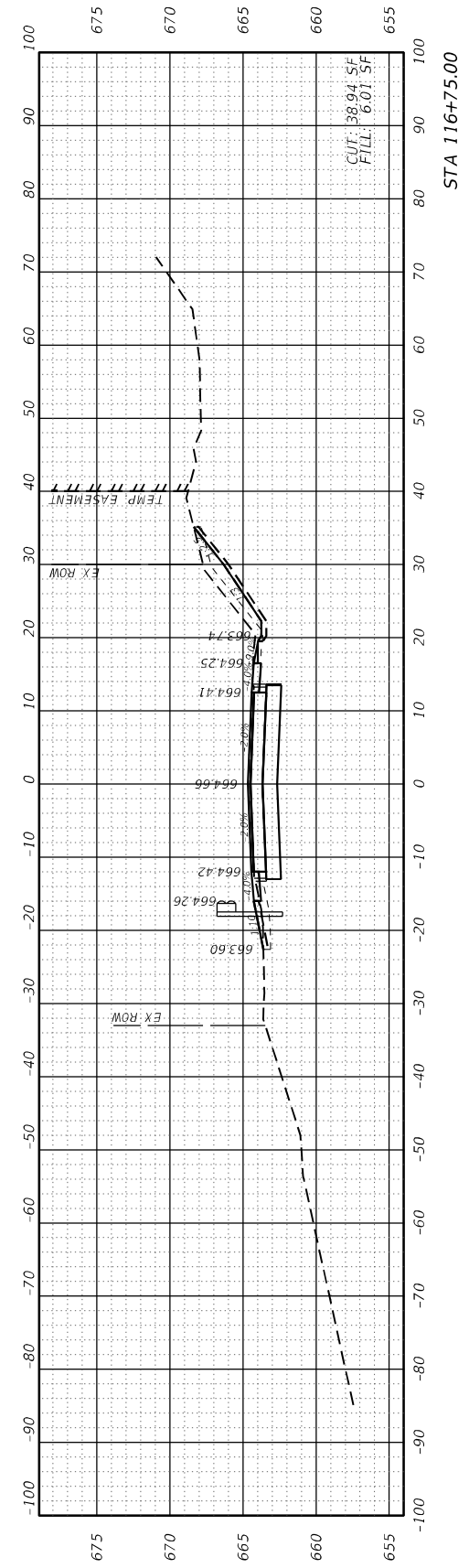
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ILLINOIS FED. AID PROJECT				



STA 117+20.00



STA 117+00.00



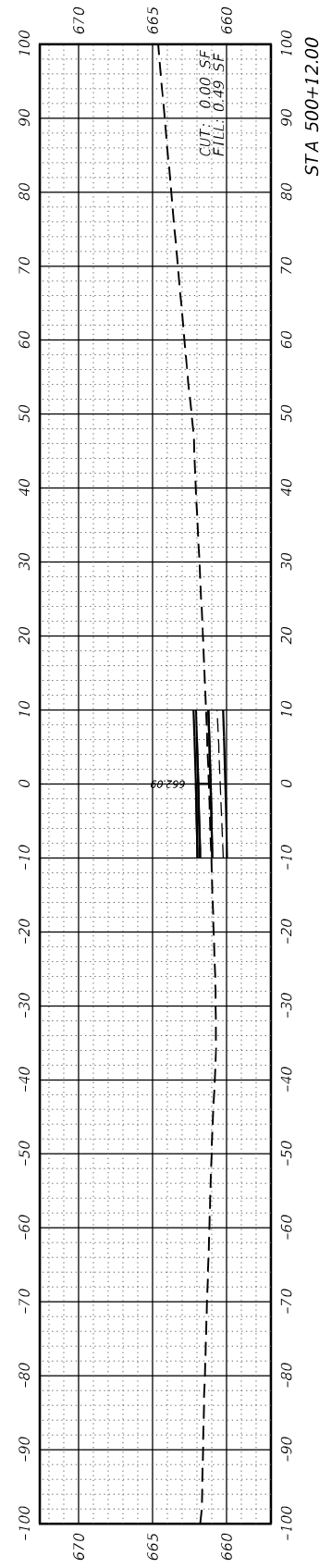
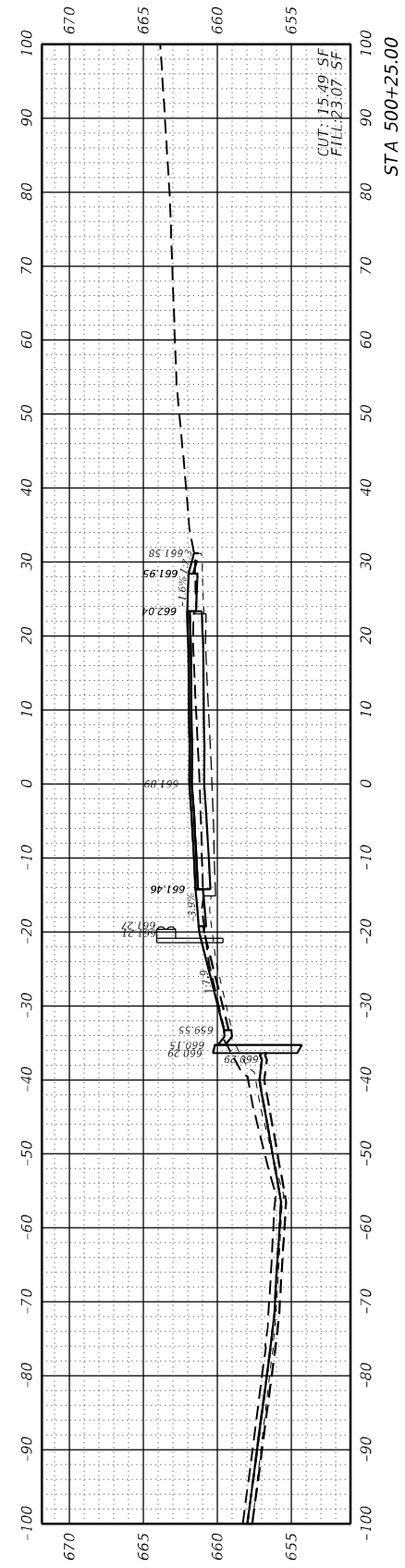
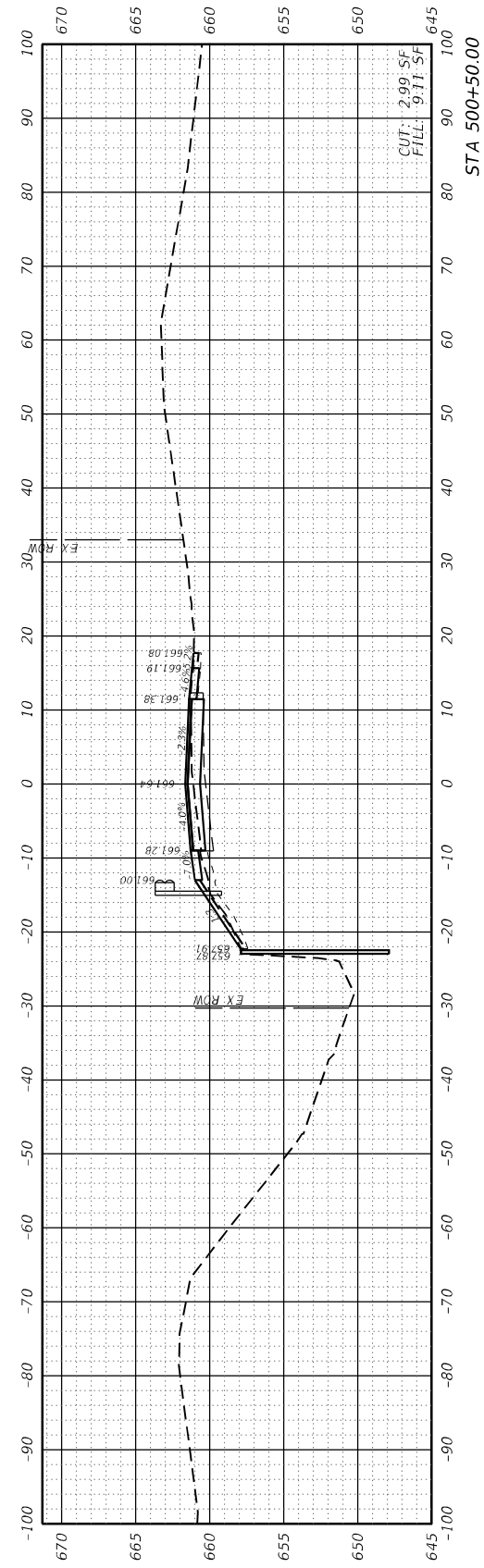
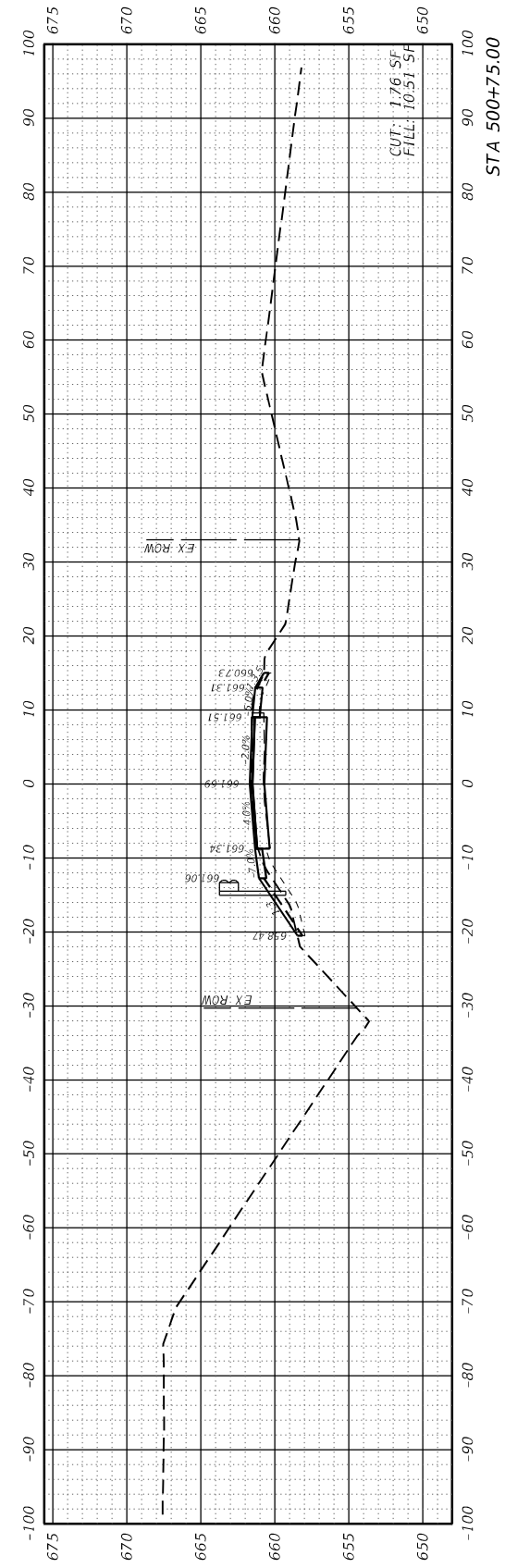
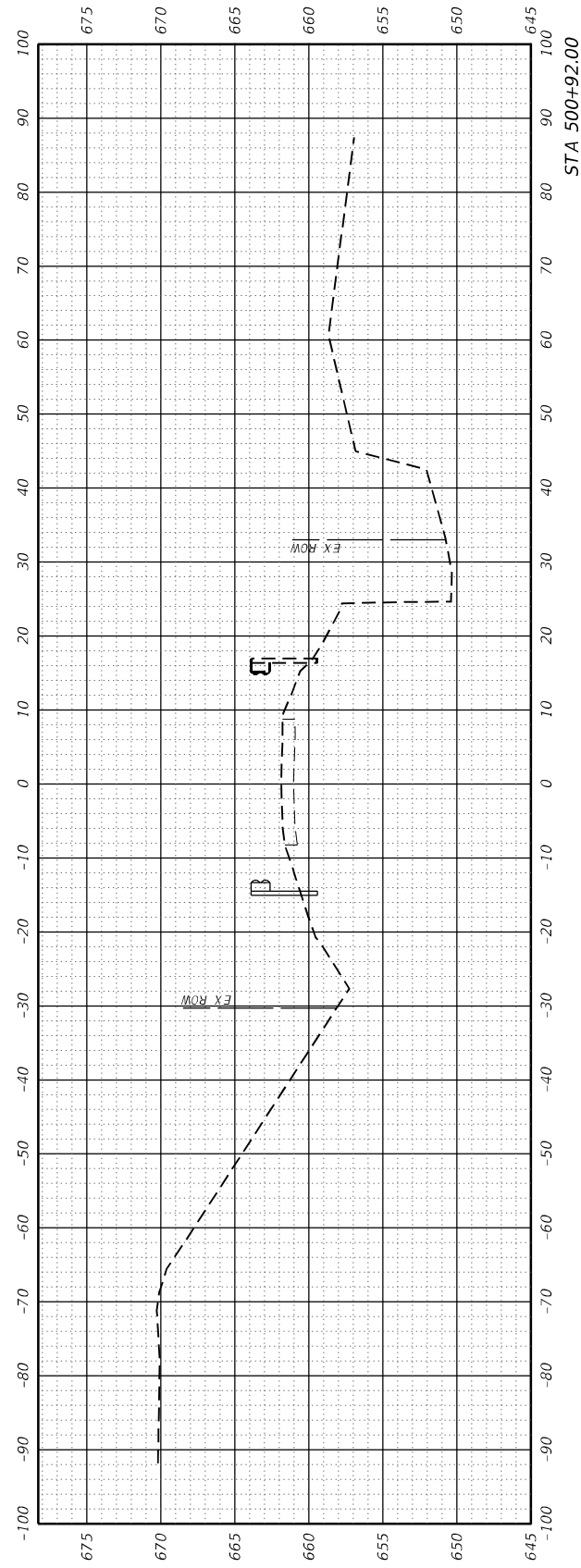
STA 116+75.00



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

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

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**AEG** ATLAS ENGINEERING GROUP, LTD.

USER NAME = cpujari	DESIGNED - AGS
PLOT SCALE = 0.2000' / in.	DRAWN - AGS
PLOT DATE = 6/12/2024	CHECKED - BA
	DATE -

REVISD -
REVISD -
REVISD -
REVISD -

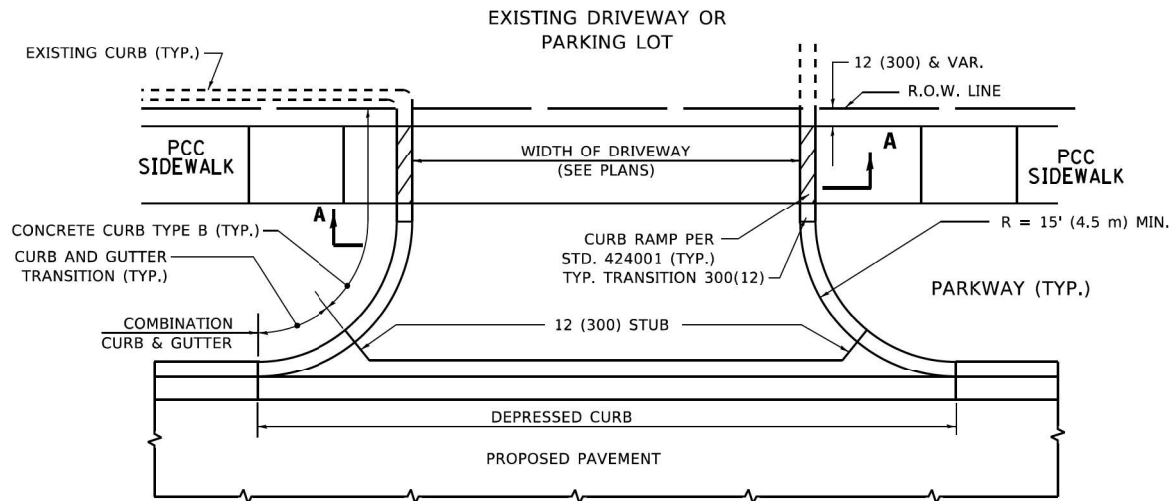
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
93RD STREET**

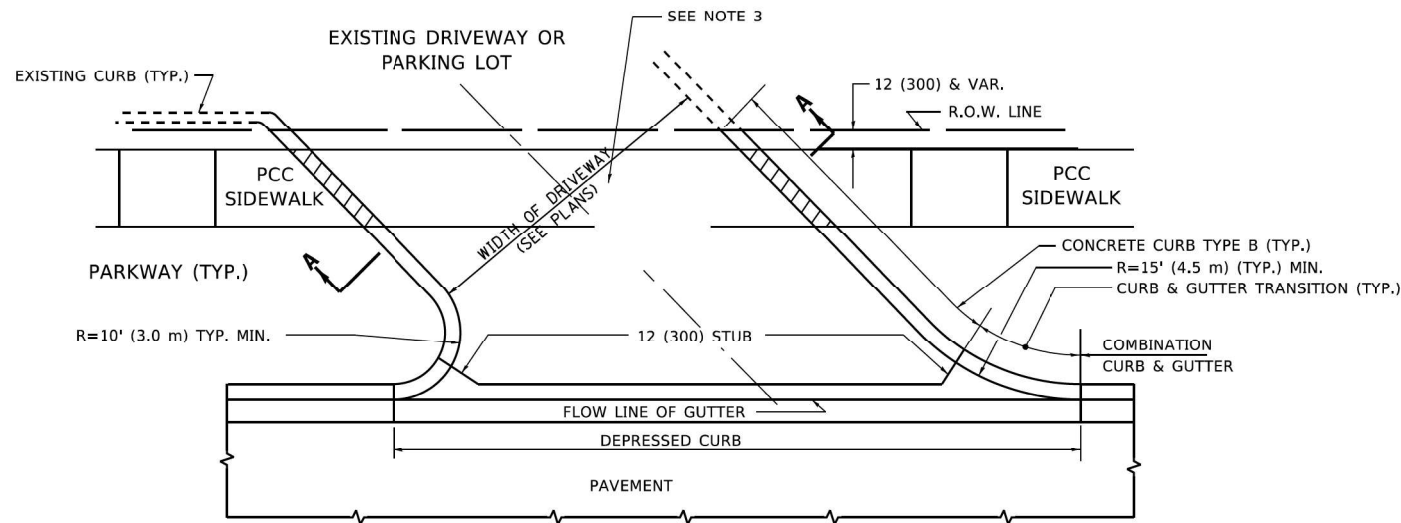
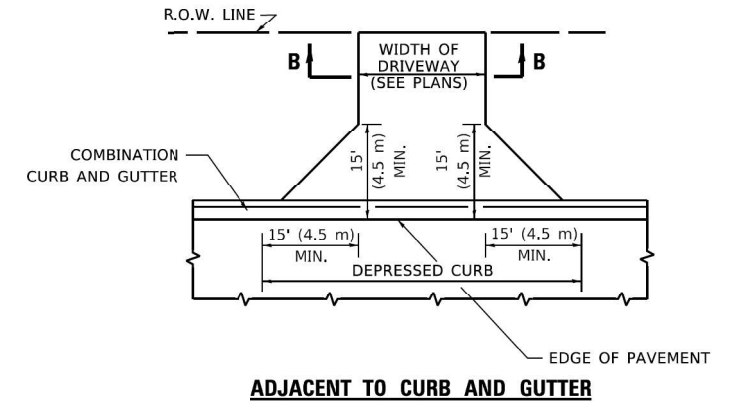
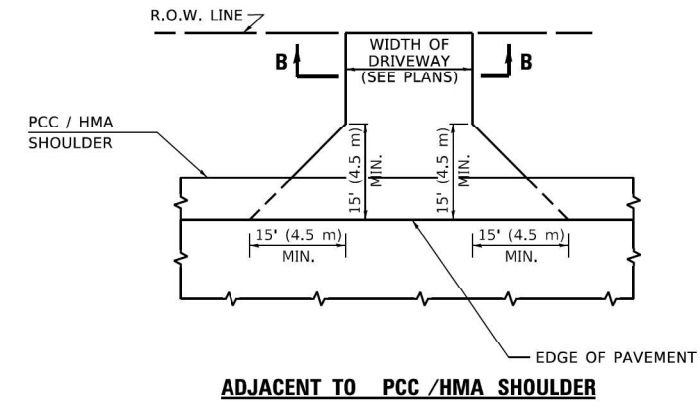
SCALE: 1"=5' SHEET 5 OF 5 SHEETS STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	57
CONTRACT NO. 62T94				
ILLINOIS FED. AID PROJECT				

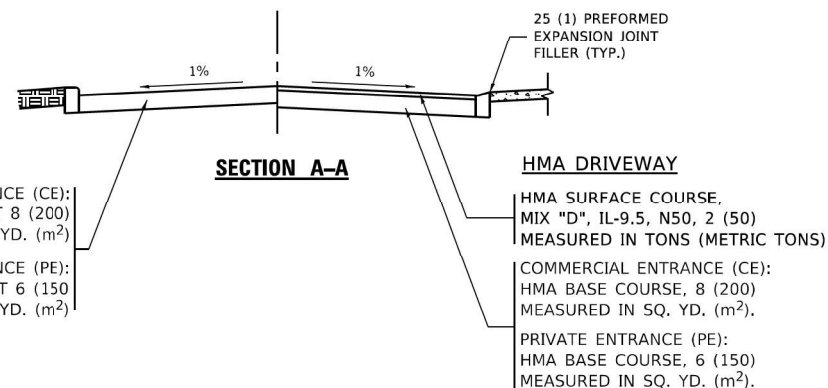
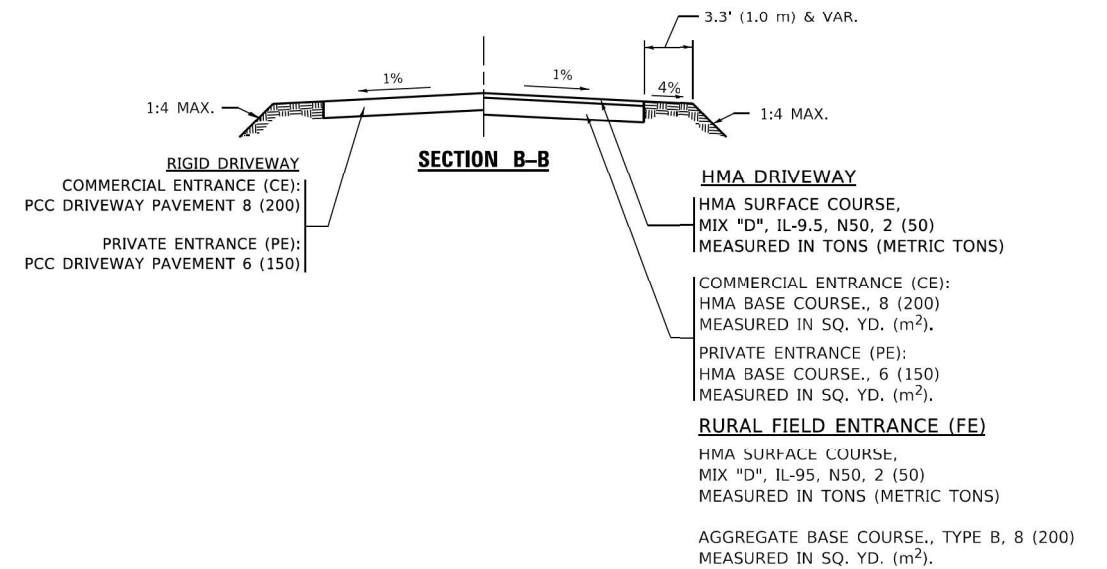




**WITH CONCRETE CURB, TYPE B**



**WITH CONCRETE CURB, TYPE B**



**GENERAL NOTES**

- DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.
- COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

MODEL: Defaul  
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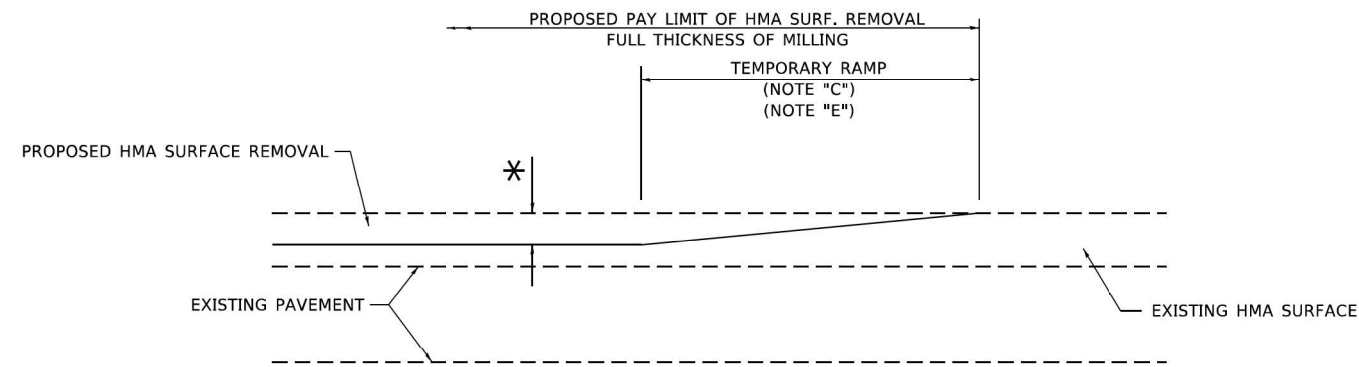
**AEG** ATLAS ENGINEERING GROUP, LTD.

USER NAME = demanchelt	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - K. SMITH 08-28-19
PLOT DATE = 2/2/2022	DATE - 11-04-95	REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

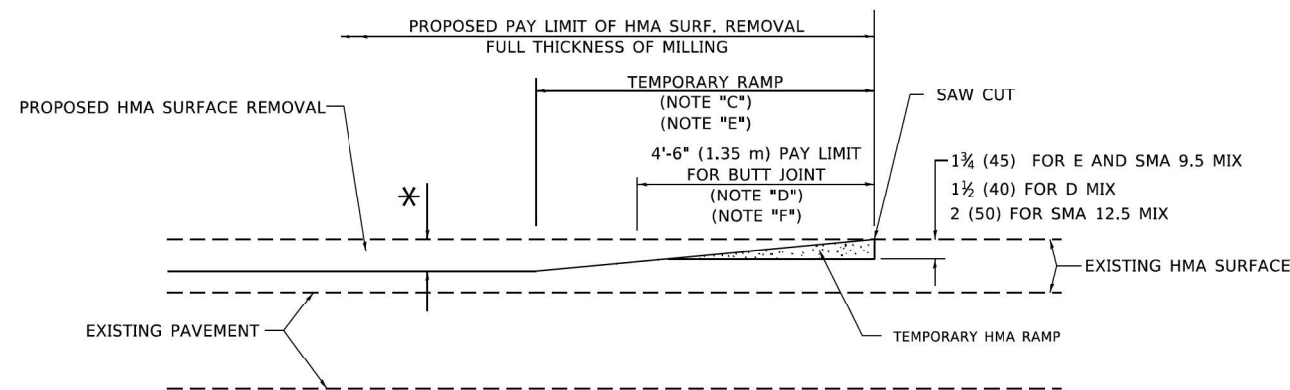
<b>DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB &amp; EDGE OF SHOULDER ≥ 15'(4.5m)</b>			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	59
<b>BD400-01 (BD-01)</b>		CONTRACT NO. 62T94		
ILLINOIS FED. AID PROJECT				



**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

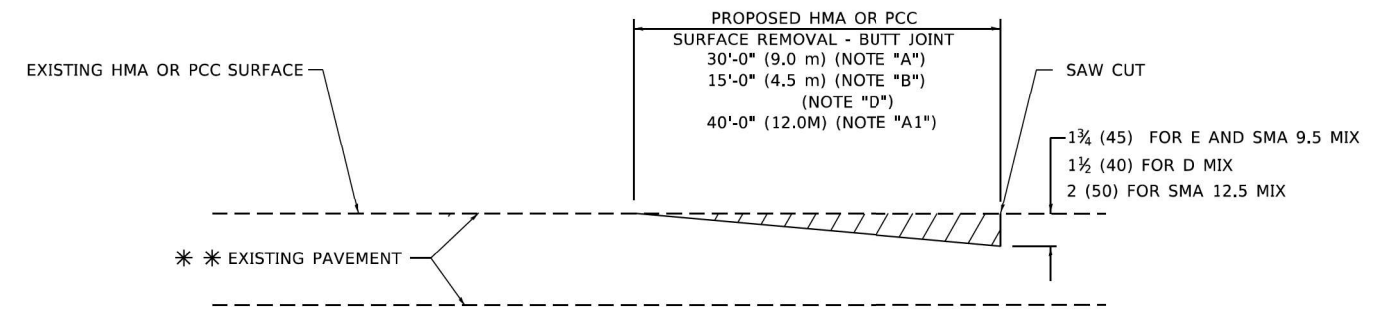
**OPTION 1**



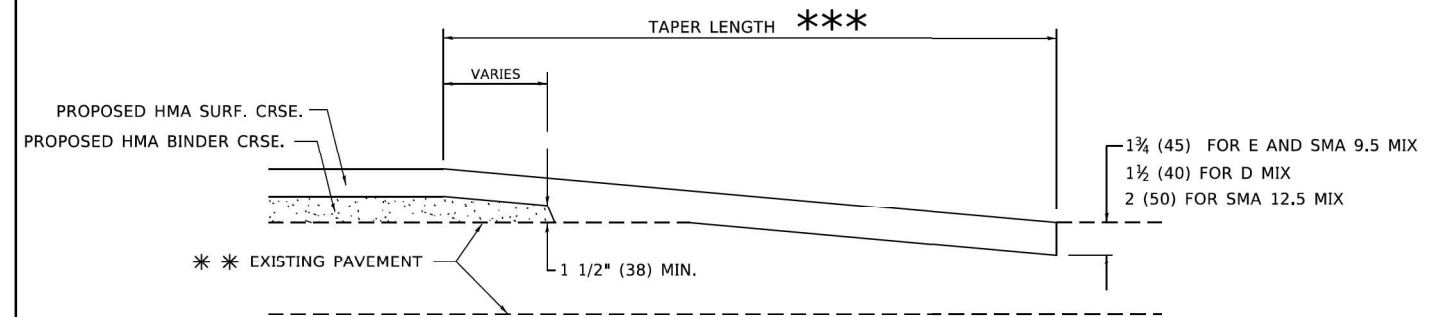
**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

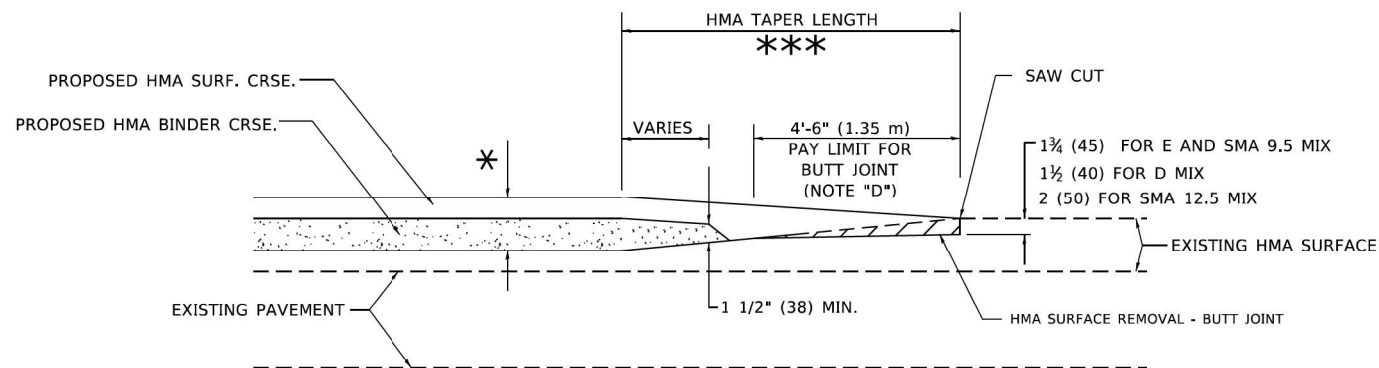
**GENERAL NOTES**

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".  
\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT**

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

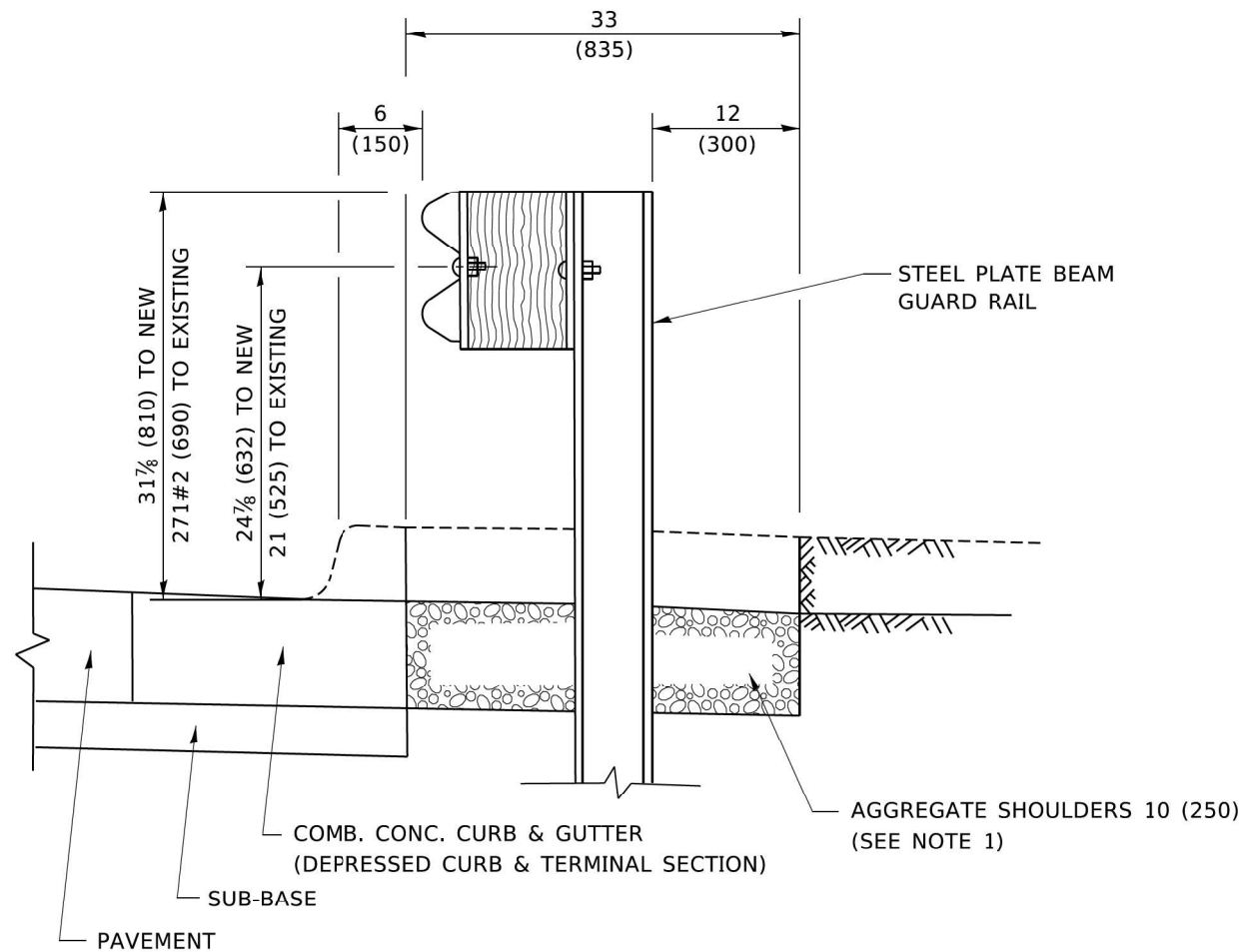
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<b>AEG</b> ATLAS ENGINEERING GROUP, LTD.	USER NAME = demanchelt	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 2/2/2022	CHECKED -	REVISED - R. BORO 01-01-07
		DATE - 06-13-90	REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

<b>BUTT JOINT AND HMA TAPER DETAILS</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	60
<b>BD400-05 BD-32</b>		CONTRACT NO. 62T94		
ILLINOIS FED. AID PROJECT				



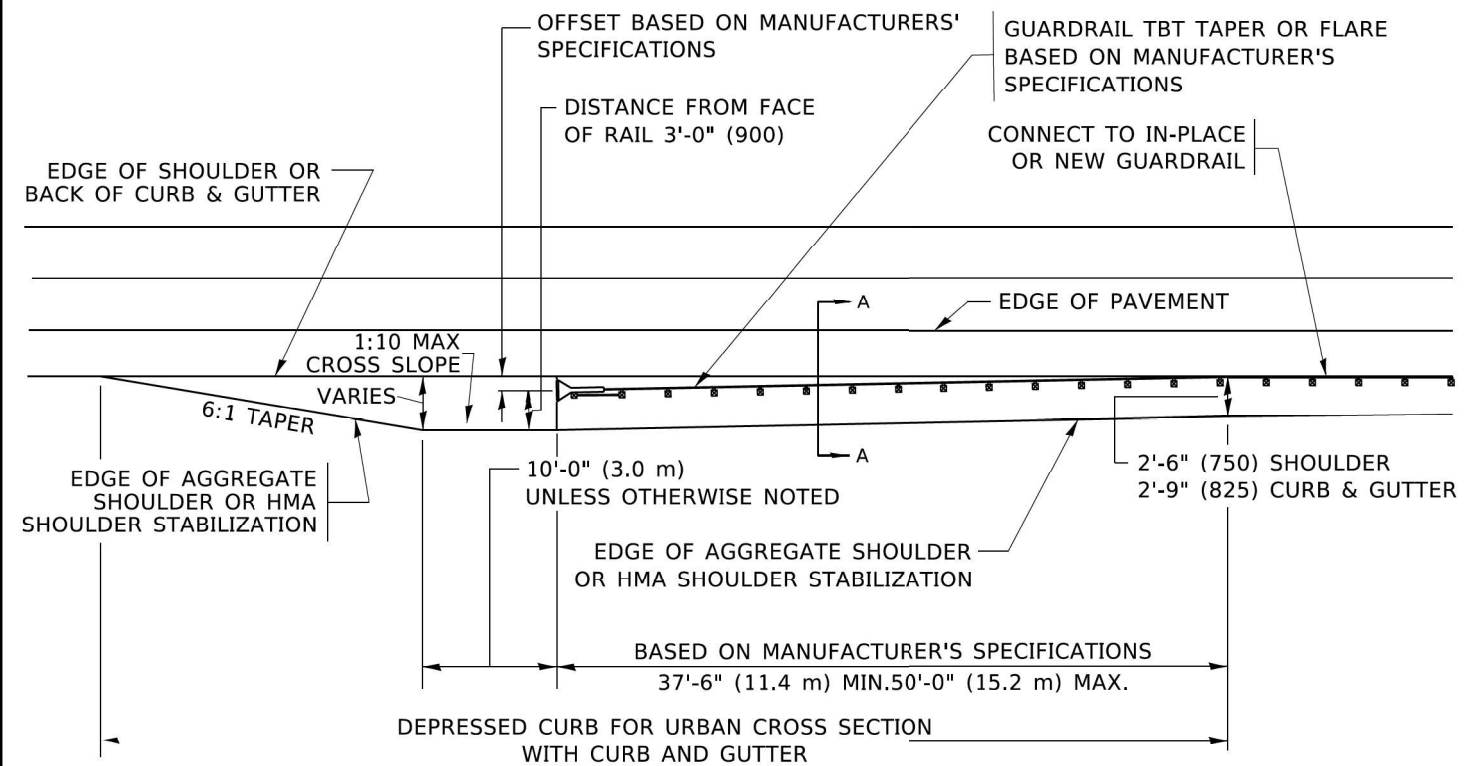
**SECTION A-A**

**NOTES:**

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

**DETAILS FOR STEEL PLATE BEAM  
GUARD RAIL ADJACENT TO CURB AND GUTTER**

**[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



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

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

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

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

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

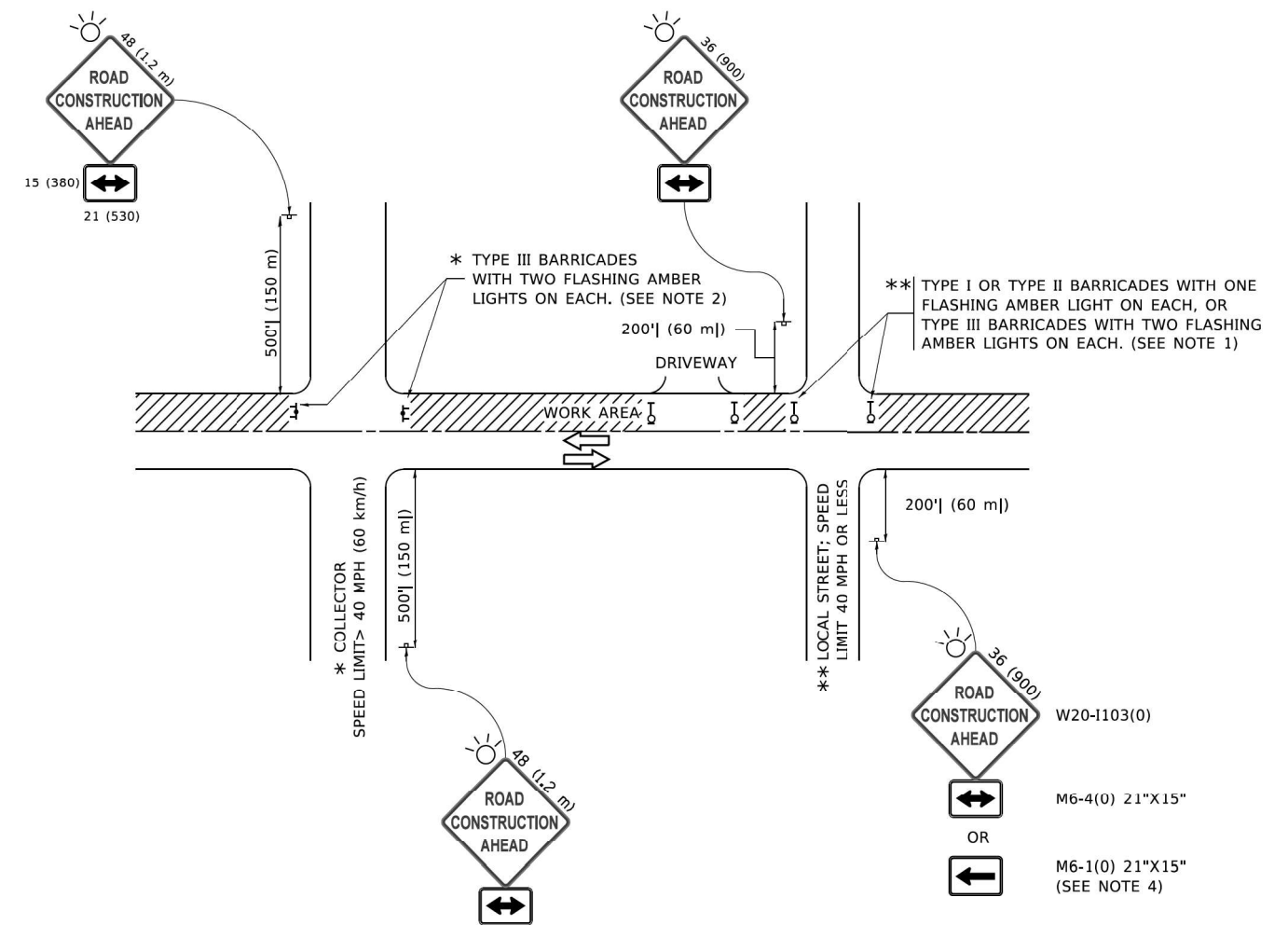
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<b>AEG</b> ATLAS ENGINEERING GROUP, LTD.	USER NAME = footemj	DESIGNED - M. DE YONG	REVISED - R. BORO 12-08-2008
	PLOT SCALE = 50.0000" / ft.	CHECKED -	REVISED - R. BORO 09-14-2009
	PLOT DATE = 3/27/2019	DATE - 09-22-90	REVISED - R. BORO 08-06-2012
			REVISED - R. BORO 05-08-2015

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAILS FOR DEPRESSED CURB &amp; GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE. 1587	SECTION FAU 1587 22 CR	COUNTY COOK	TOTAL SHEETS 66	SHEET NO. 61
<b>BD600-10 (BD 34)</b>		CONTRACT NO. 62T94		
ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

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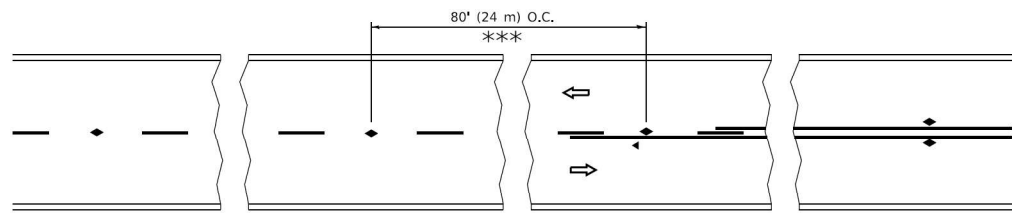
<b>AEG</b> ATLAS ENGINEERING GROUP, LTD.	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	PLOT SCALE = 50,0000' / in.	DRAWN -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/4/2019	CHECKED -	REVISED - A. SCHUETZE 07-01-13
		DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

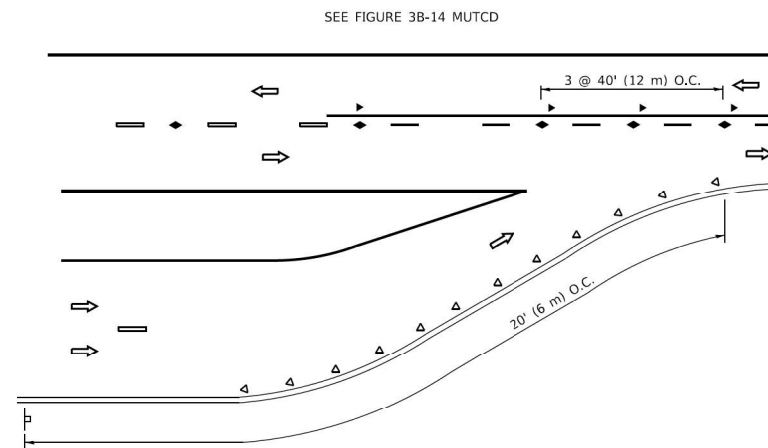
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	62
<b>TC-10</b>			CONTRACT NO. 62T94	
ILLINOIS FED. AID PROJECT				

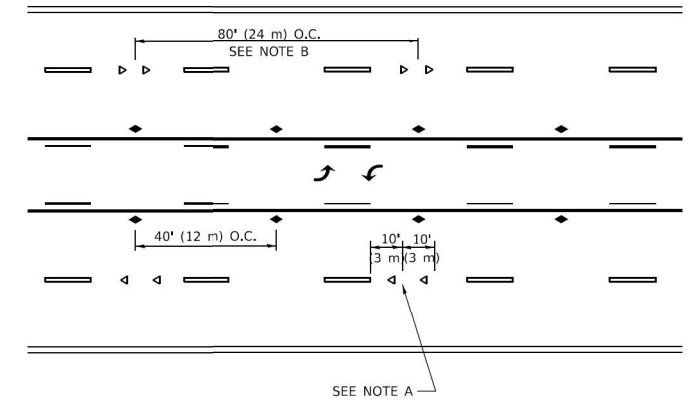


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

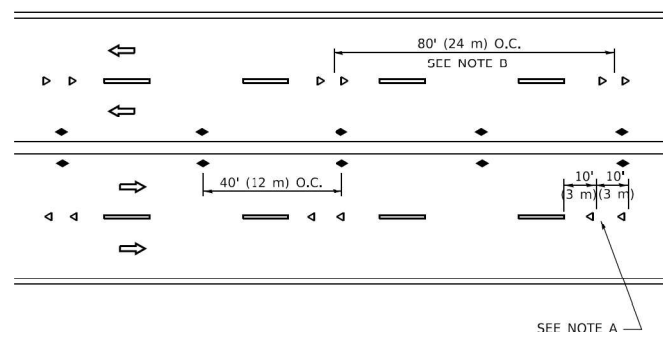
**TWO-LANE/TWO-WAY**



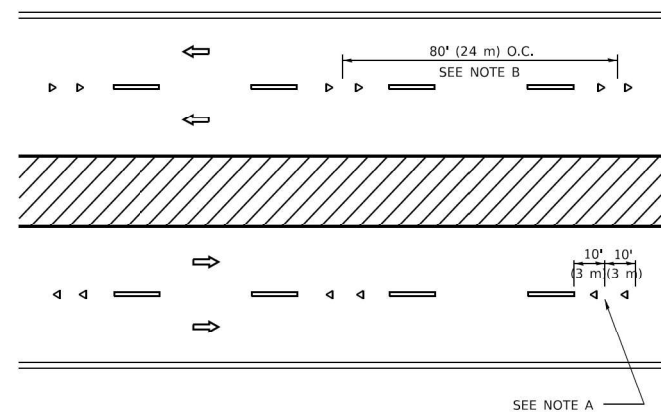
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

**SYMBOLS**

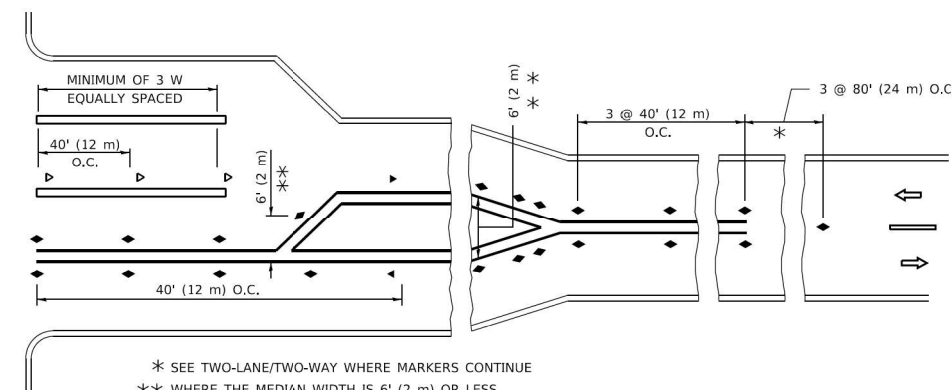
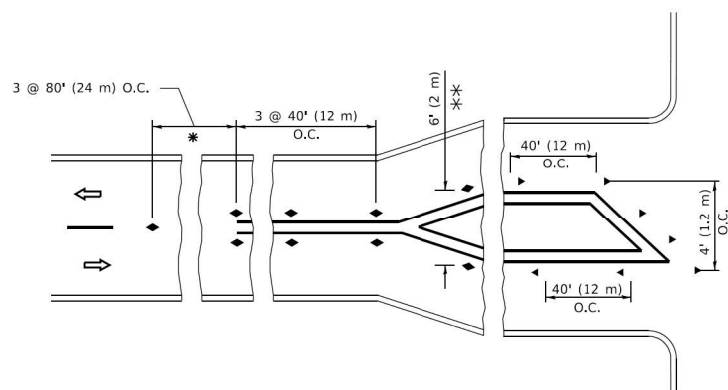
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

**DESIGN NOTES**

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

**TURN LANES**

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

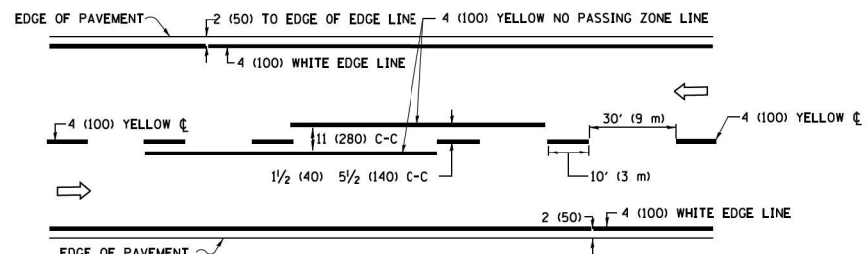
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<b>AEG ATLAS ENGINEERING GROUP, LTD.</b>	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50,0000' / in.	DRAWN -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 09-09-09
		DATE -	REVISED - C. JUCIUS 07-01-13

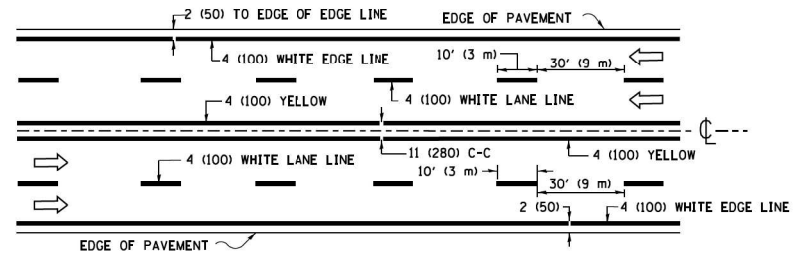
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

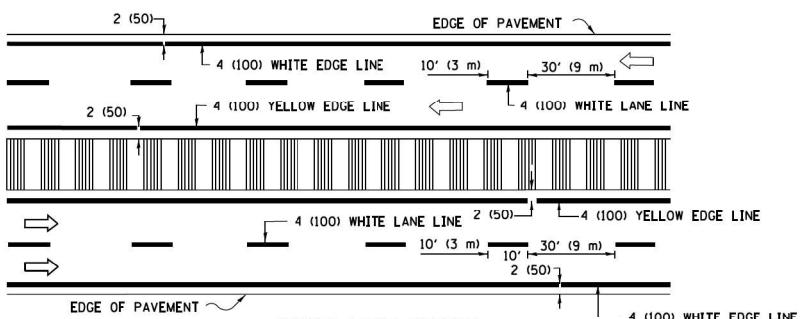
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	63
TC-11			CONTRACT NO. 62T94	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

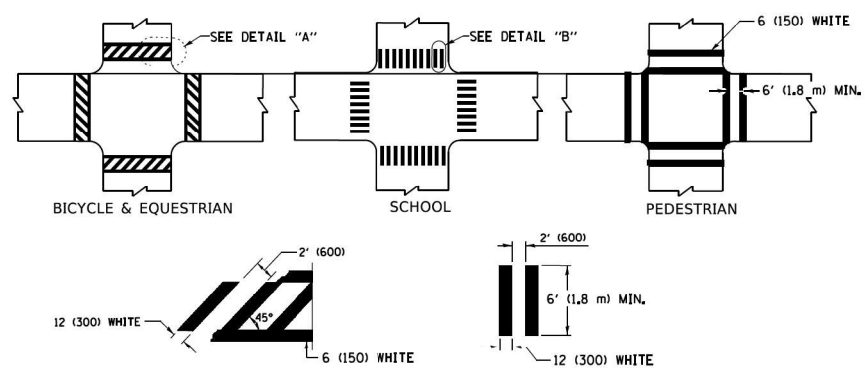


**MULTI-LANE UNDIVIDED**



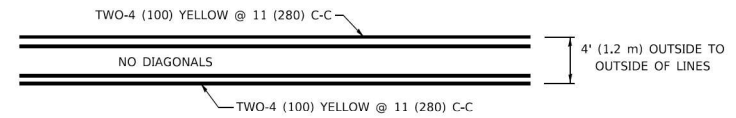
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

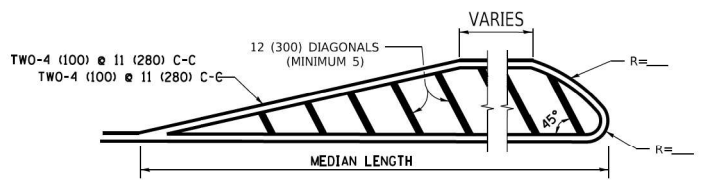


**TYPICAL CROSSWALK MARKING**

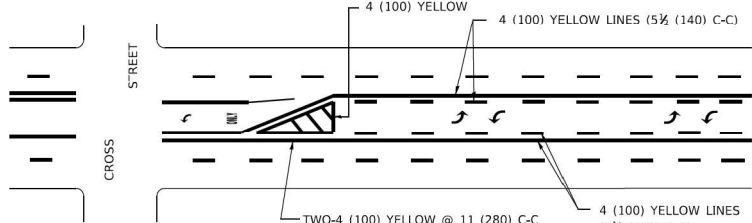
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



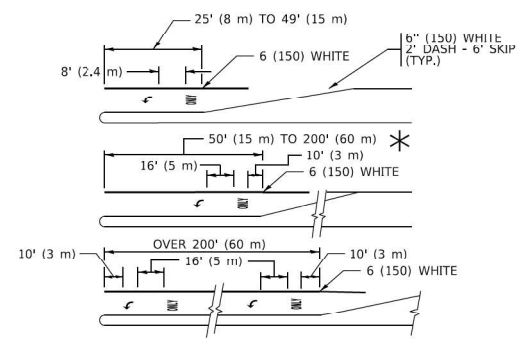
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



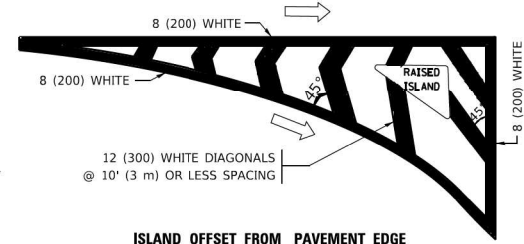
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



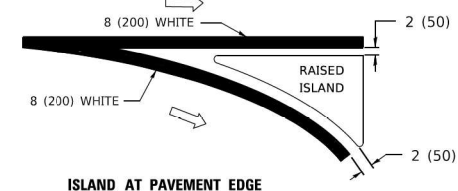
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

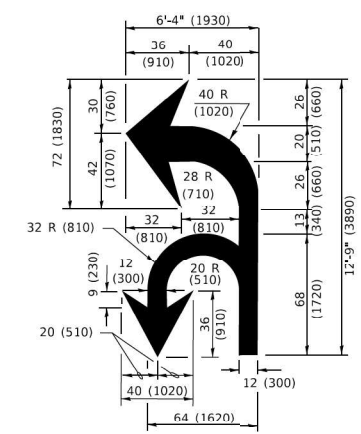
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



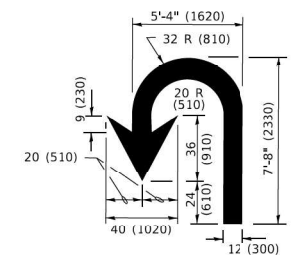
**ISLAND OFFSET FROM PAVEMENT EDGE**



**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	7 @ 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 <sup>2</sup> ) EACH *X*=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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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**AEG ATLAS ENGINEERING GROUP, LTD.**

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PLOT SCALE = 50.0000" / ft.	DRAWN -	REVISED - C. JUCIUS 07-01-13
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**

<b>DISTRICT ONE</b>			
<b>TYPICAL PAVEMENT MARKINGS</b>			
SCALE: NONE	SHEET#61	OF#62 SHEETS	STA. TO STA.

F.A.U. RTE. 1587	SECTION FAU 1587 22 CR	COUNTY COOK	TOTAL SHEETS 66	SHEET NO. 64
<b>TC-13</b>		CONTRACT NO. 62T94		
ILLINOIS		FED. AID PROJECT		



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**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**

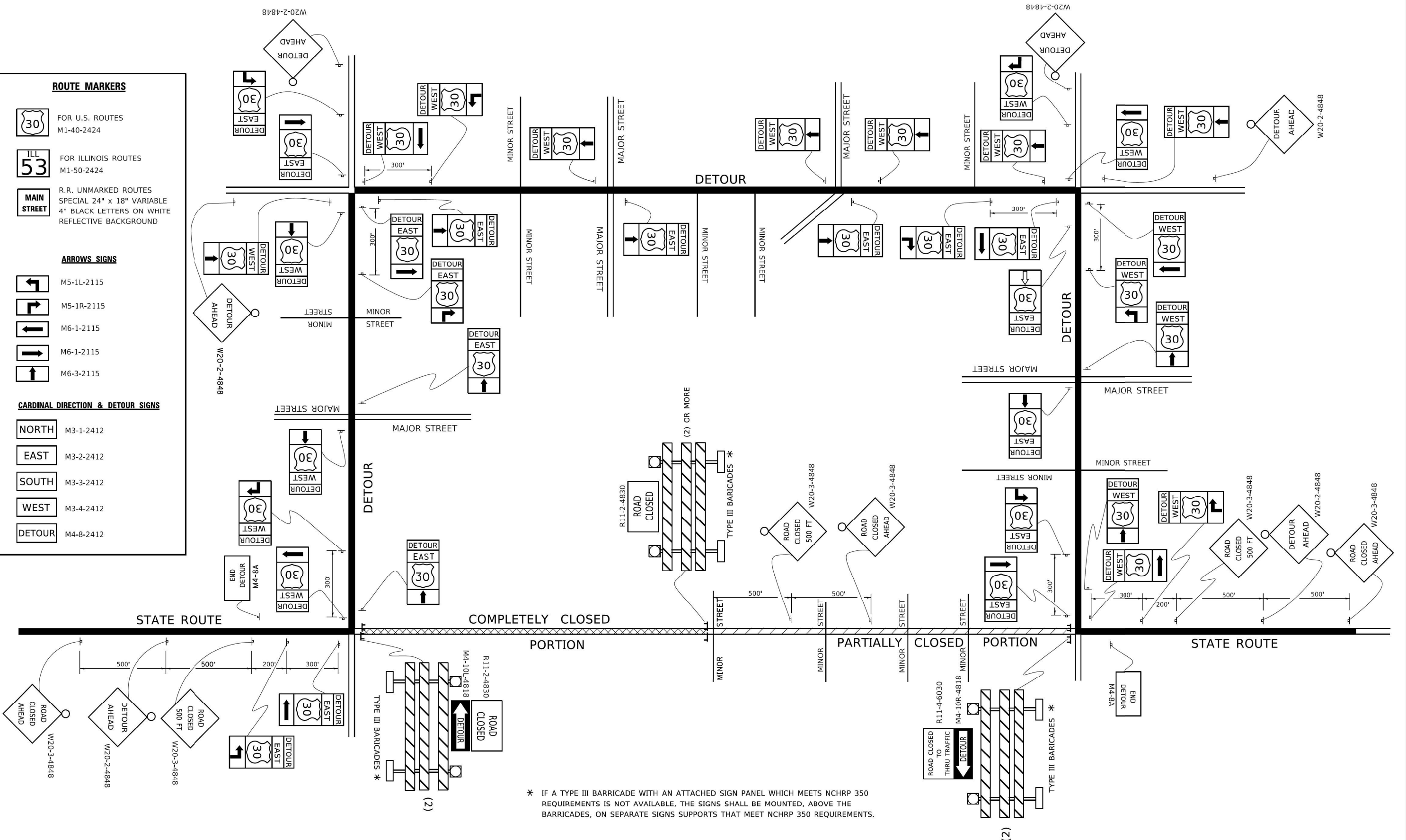
NORTH M3-1-2412

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.

**AEG** ATLAS ENGINEERING GROUP, LTD.

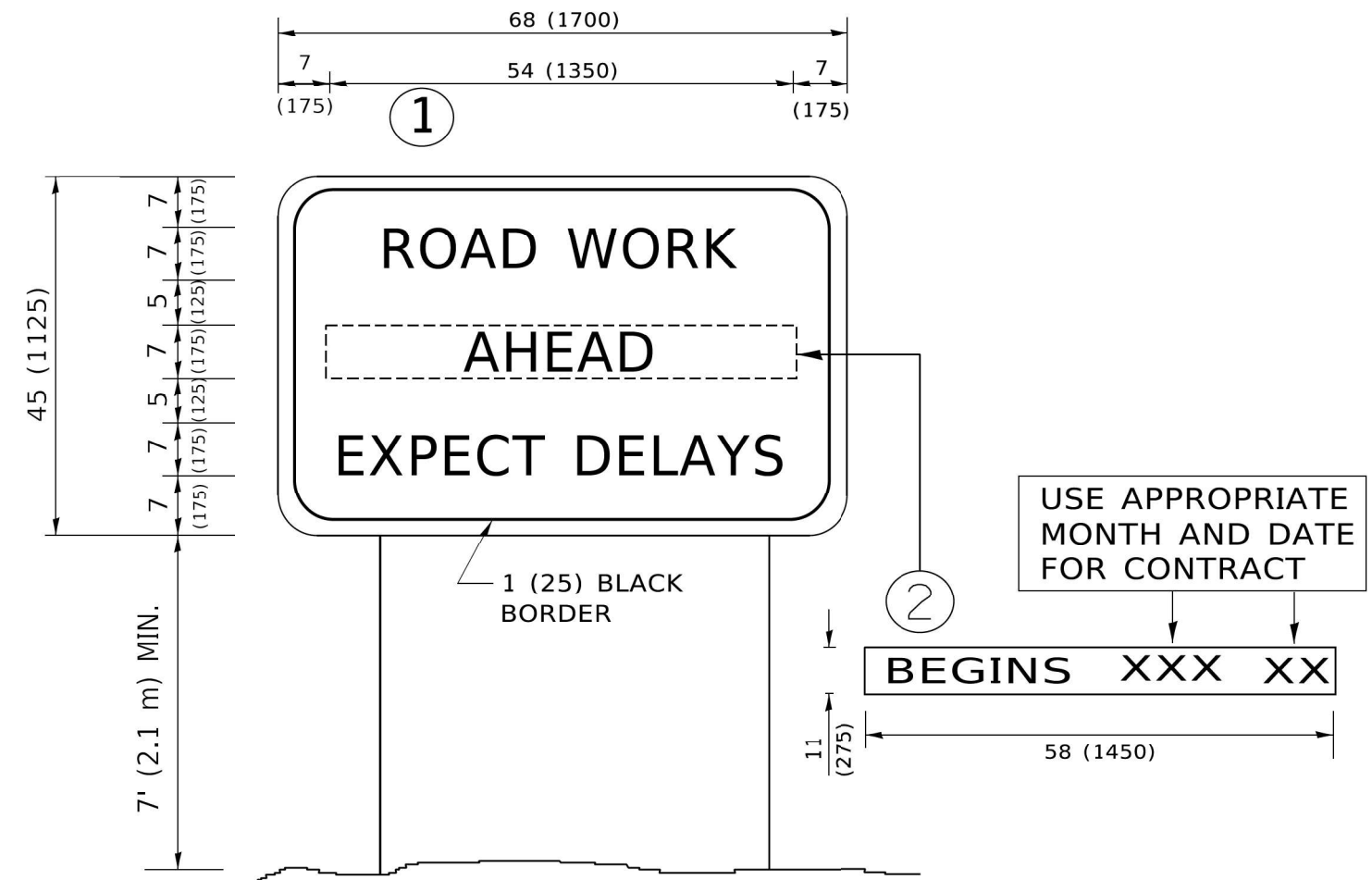
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PLOT SCALE = 50,0000' / in.	DRAWN -	REVISED - R. BORO 09-14-09
PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING  
 FOR CLOSING STATE HIGHWAYS**

SCALE: NONE SHEET 166 OF 661 SHEETS STA. TO STA.

F.A.U. RTE. 1587	SECTION FAU 1587 22 CR	COUNTY COOK	TOTAL SHEETS 66	SHEET NO. 65
TC-21		CONTRACT NO. 62T94		
ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

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	PLOT SCALE = 50.0000' / 1".	DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT DATE = 3/4/2019	CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

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

**ARTERIAL ROAD**  
**INFORMATION SIGN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	FAU 1587 22 CR	COOK	66	66
TC-22			CONTRACT NO. 62T94	
ILLINOIS FED. AID PROJECT				