

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	1
		ILLINOIS	CONTRACT NO. 61G76	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

DESIGN DESIGNATION 3,000(50) ARTERIAL 6.44 (PCC-30)
FRANKLIN AVENUE - MINOR ARTERIAL
ADT=12,044 (2018)/25,320 (2050)
SPEED=35 MPH (POSTED)/40 MPH (DESIGN)

DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 3533 (FRANKLIN AVENUE)
SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE
SECTION 17-00083-01-BR
PROJECT I218(290)
VILLAGE OF FRANKLIN PARK
COOK COUNTY

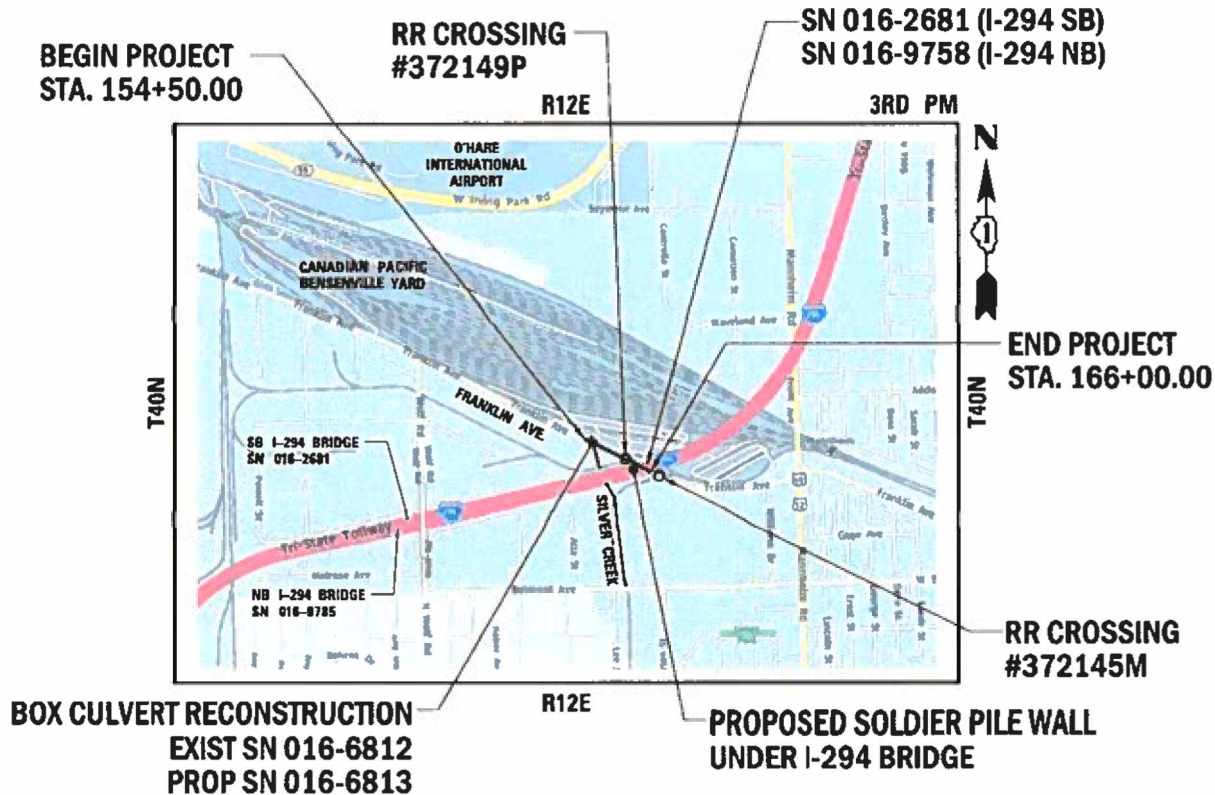
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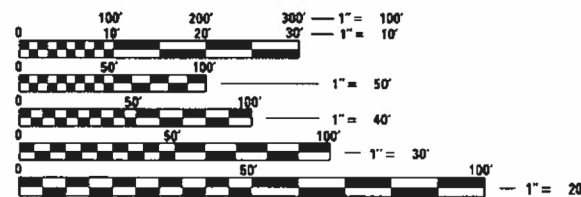
exp U.S. SERVICES INC.
CIVIL
Parviz Boroumand
Parviz Boroumand DATE 10/28/2020
ILLINOIS REGISTRATION NO: 062-046387
EXP DATE: 11/30/2021
APPLY TO SHEETS: 1-38, 65-78



exp U.S. SERVICES INC.
STRUCTURAL
Kamlesh Kumar
Kamlesh Kumar DATE 10/28/2020
ILLINOIS REGISTRATION NO: 081-007216
EXP DATE: 11/30/2022
APPLY TO SHEETS: 39-64



GROSS LENGTH = 1150.00 FT. = 0.22 MILE
NET LENGTH = 752.00 FT. = 0.14 MILE



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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Approved: *Tom McCabe*
Tom McCabe
Village of Franklin Park, Village Engineer

Passed: *Nov. 10, 2020*
[Signature]
District 1 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: *November 10, 2020*
[Signature]
Regional Engineer

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
285001-02	FABRIC FORMED CONCRETE REVETMENT MATS
353001-05	PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSES
420001-09	PAVEMENT JOINTS
515001-04	NAME PLATE FOR BRIDGES
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604036-03	GRATE TYPE 8
606201-04	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, DAY ONLY, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS- DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT ONE DETAILS

DETAIL NO.	DESCRIPTION
BD-32	BUTT JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING

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FILE NAME =	USER NAME = ZimonA	DESIGNED - AG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE	INDEX OF SHEETS AND HIGHWAY STANDARDS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FP22318-sht-gennote-01.dgn		DRAWN - AG	REVISED -		3533	17-00083-01-BR	COOK	78	2			
exp U.S. Services Inc. Chicago, IL	PLOT SCALE = 20.0000' / in.	CHECKED - PB	REVISED -		CONTRACT NO. 61G76							
BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISED -		SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF FRANKLIN PARK.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. BARRICADES: TYPE I, TYPE II, AND TYPE III BARRICADES SHALL BE WEIGHTED IN A MANNER APPROVED BY THE MANUFACTURER SO THEY ARE NOT MOVED BY TRAFFIC.
5. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AIR TRAFFIC AND ADJOINING COMMERCIAL AREAS.
6. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
7. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.
8. THE PAVEMENT ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.
9. 10 FT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
10. ALL SEWER AND WATER SERVICES CROSSED BY NEW STORM SEWERS SHALL BE PROPERLY LOCATED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE DONE TO SAID SERVICES NOT CONSIDERED TO BE CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
12. CONTRACTOR SHALL COMPLY WITH THE F.A.A. REQUIREMENTS FOR GLIDE PATH RESTRICTIONS AND FORM 7460.
13. ALL ELEVATIONS REFER TO USGS MEAN SEA LEVEL DATUM.
14. TEMPORARY PAVEMENT MARKING SHALL CONSIST OF EPOXY OR POLYUREA PAVEMENT MARKING, AT THE OPTION OF THE CONTRACTOR. EPOXY OR POLYUREA PAVEMENT MARKING MATERIALS SHALL BE ACCORDING TO ARTICLES 1095.04 AND 1095.08 RESPECTIVELY OF THE STANDARD SPECIFICATIONS.
15. WET REFLECTIVE TEMPORARY TAPE TYPE III SHALL BE USED ON THE FINAL WEARING SURFACE. TEMPORARY PAVEMENT MARKING CONSISTING OF EPOXY OR POLYUREA PAVEMENT MARKING SHALL NOT BE APPLIED TO THE FINAL WEARING SURFACE UNLESS AUTHORIZED BY THE ENGINEER FOR THE LATE SEASON APPLICATION WHERE TAPE ADHESION WOULD BE A PROBLEM.
16. SILVER CREEK IS DESIGNATED AS PART OF THE WATERS OF THE U.S.
17. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
18. 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.
19. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR'S EXPENSE.

GENERAL DRAINAGE NOTES

1. SEE DRAINAGE DETAIL SHEETS FOR DRAINAGE STRUCTURE OFFSET AND RIM ELEVATION LOCATION.
2. QUANTITY OF TRENCH BACKFILL FOR STORM SEWER REMOVAL THAT IS PROVIDED IN SCHEDULE IS BASED ON LENGTH OF PIPE REMOVED. IF EXISTING STORM SEWER IS REMOVED AND REPLACED, TRENCH BACKFILL QUANTITY IS BASED ON PROPOSED STORM SEWER ONLY.
3. PROPOSED RIM AND INVERT ELEVATIONS ARE BASED ON EXISTING OR THEORETICAL GRADES, ACTUAL FINAL GRADES ARE SUBJECT TO NOMINAL VARIATIONS, CONSTRUCTION OF PROPOSED CASTING TO FINAL GRADES IS INCLUDED IN THE COST OF THE RELATED DRAINAGE STRUCTURE.


GENERAL DRAINAGE NOTES (CONTINUED)

4. SUFFICIENT DRAINAGE FACILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO FACILITATE SURFACE RUNOFF. WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTER, OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SO AFFECTED SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLAN HIS OPERATIONS, WITH THE APPROVAL OF THE ENGINEER IN THE FIELD, SO AS TO UTILIZE THE FACILITIES PROVIDED TO PREVENT LOCAL FLOODING AND ENSURE PROPER SURFACE RUNOFF.
5. ALL STORM SEWERS, PIPE CULVERTS, CATCH BASINS, MANHOLES, INLETS AND SIMILAR STRUCTURES NEWLY CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS, OR FOREIGN MATTER OF ANY KIND AND SHALL BE FREE FROM SUCH ACCUMULATIONS AT THE TIME OF FINAL INSPECTION. THE COST OF ANY CLEANING REQUIRED TO COMPLY WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
6. THE CONTRACTOR SHALL VERIFY EXISTING OUTLET STRUCTURE LOCATIONS AND INVERTS PRIOR TO STARTING UPSTREAM STORM SEWER CONNECTION AND CONSTRUCTION.
7. BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE SSRBC WILL NOT BE ALLOWED.

DEPARTMENT OF AVIATION

1. THE CONTRACTOR MUST SUBMIT FAA FORM 7460 WITH THE CITY OF CHICAGO, DEPARTMENT OF AVIATION, PLANNING DIVISION FOR FAA PERMIT APPLICATION AT LEAST 45 DAYS BEFORE START OF CONSTRUCTION.

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 exp U.S. Services Inc.
 Chicago, IL
 BUILDINGS-EARTH & ENVIRONMENT-ENERGY
 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

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FP22318-shk-gennote-02.dgn		DRAWN - AG	REVISED -
 exp U.S. Services Inc. Chicago, IL	PLOT SCALE = 20.0000 ' / in.	CHECKED - PB	REVISED -
	PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

GENERAL NOTES AND COMMITMENTS	
SCALE: N.T.S.	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	3
CONTRACT NO. 61G76				
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES	
				ROADWAY	BOX CULVERT
				0004 URBAN	0010 URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	13	13	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	30	30	
20200100	EARTH EXCAVATION	CU YD	609	609	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	140	140	
20400800	FURNISHED EXCAVATION	CU YD	36	36	
20800150	TRENCH BACKFILL	CU YD	23	23	
20900110	POROUS GRANULAR BACKFILL	CU YD	173		173
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	617	179	438
21101605	TOPSOIL FURNISH AND PLACE, 2"	SQ YD	2,828	2828	
* 25000210	SEEDING, CLASS 2A	ACRE	0.56	0.56	
* 25000314	SEEDING, CLASS 4B	ACRE	0.03	0.03	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	53	53	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	53	53	
* 25100630	EROSION CONTROL BLANKET	SQ YD	1,374	1374	
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1,454	1454	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	58	58	
28000305	TEMPORARY DITCH CHECKS	FOOT	124	124	

* SPECIALTY ITEM

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	FP22318-shr-SQ-01.dgn	PLOT SCALE = 20.0000' / in.	CHECKED - PB	REVISED -		3533	17-00083-01-BR	COOK	78	4				
	PLOT DATE = 10/28/2020	DATE = 10/28/2020	REVISED -			CONTRACT NO. 61G76				ILLINOIS	FED. AID PROJECT			
						SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO STA.			

CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES	
				ROADWAY	BOX CULVERT
				0004 URBAN	0010 URBAN
28000400	PERIMETER EROSION BARRIER	FOOT	845	845	
28000510	INLET FILTERS	EACH	2	2	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	2,828	2828	
28100101	STONE RIPRAP, CLASS A1	SQ YD	39	39	
28200200	FILTER FABRIC	SQ YD	39	39	
28500400	ARTICULATED BLOCK REVETMENT MAT	SQ YD	15	15	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	60	60	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1,360	1360	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	352	352	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	479	479	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	41	41	
40701921	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"	SQ YD	1,204	1204	
44000100	PAVEMENT REMOVAL	SQ YD	1,246	1246	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	307	307	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	727	175	552
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	251		251

* SPECIALTY ITEM

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exp U.S. Services Inc. Chicago, IL BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT SCALE = 20.0000' / 1 in.	DRAWN - AG	REVISED -		SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO STA.	3533	17-00083-01-BR	COOK	78	5
	PLOT DATE = 10/28/2020	CHECKED - PB	REVISED -						CONTRACT NO. 61G76						
		DATE - 10/28/2020	REVISED -						ILLINOIS FED. AID PROJECT						

CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES	
				ROADWAY	BOX CULVERT
				0004 URBAN	0010 URBAN
50300225	CONCRETE STRUCTURES	CU YD	97	86	11
50300255	CONCRETE SUPERSTRUCTURE	CU YD	12		12
50300285	FORM LINER TEXTURED SURFACE	SQ FT	1,147	1147	
50300300	PROTECTIVE COAT	SQ YD	266	205	61
50500505	STUD SHEAR CONNECTORS	EACH	416	384	32
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	56,580	15090	41490
* 50900105	ALUMINUM RAILING, TYPE L	FOOT	83		83
51500100	NAME PLATES	EACH	2	1	1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	131		131
52200105	FURNISHING SOLDIER PILES (W SECTION)	FOOT	907	777	130
52200200	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	6,362	5861	501
52200250	UNTREATED TIMBER LAGGING	SQ FT	1,716	1550	166
54003000	CONCRETE BOX CULVERTS	CU YD	147		147
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	21	21	
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	14	14	
56103550	DUCTILE IRON WATER MAIN, CLASS S2, 12"	FOOT	174	174	
58700300	CONCRETE SEALER	SQ FT	607		607
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	208	189	19

* SPECIALTY ITEM

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 exp U.S. Services Inc. Chicago, IL BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

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PLOT SCALE = 20.0000 ' / in.	PLOT DATE = 10/28/2020	DRAWN - AG	REVISED -		SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 61G76		
CHECKED - PB	DATE - 10/28/2020	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT								
DATE - 10/28/2020	REVISED -	REVISED -	REVISED -										

CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES	
				ROADWAY	BOX CULVERT
				0004 URBAN	0010 URBAN
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	16	16	
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2	
60602800	CONCRETE GUTTER, TYPE B	FOOT	302	302	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	474	474	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	204	204	
67100100	MOBILIZATION	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	60	60	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	120	120	
70300904	PAVEMENT MARKING TAPE, TYPE IV, 4"	FOOT	3,384	3384	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	300	300	
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2	
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,074	3074	

* SPECIALTY ITEM

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FILE NAME = FP22318-shl-SOQ-04.dgn	USER NAME = ZimonA	DESIGNED - AG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE	SUMMARY OF QUANTITIES IV	F.A.U. RTE. 3533	SECTION 17-00083-01-BR	COUNTY COOK	TOTAL SHEETS 78	SHEET NO. 7		
exp U.S. Services Inc. Chicago, IL BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT SCALE = 20.0000' / in.	DRAWN - AG	REVISED -			SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 61G76			
	PLOT DATE = 10/28/2020	CHECKED - PB	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE - 10/28/2020	REVISED -									

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 FILE NAME: ...
 FILE NAME: ...

CODE NO.	ITEM	UNIT	TOTAL QTY.	CONSTRUCTION CODES	
				ROADWAY	BOX CULVERT
				0004 URBAN	0010 URBAN
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	392	392	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	16	16	
X0325349	TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY)	FOOT	87	87	
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	698	698	
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	349		349
X5401207	PRECAST CONCRETE BOX CULVERTS 12' X 7' (SPECIAL)	FOOT	141		141
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	4	4	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
* Z0007124	STEEL RAILING (SPECIAL)	FOOT	253	253	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	110	110	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	302	302	
Z0054400	ROCK FILL	CU YD	251		251
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	6	6	
# Z0076600	TRAINEES	HOUR	500	500	
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	

* SPECIALTY ITEM #0042

FILE NAME =	USER NAME = Zimona	DESIGNED - AG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE	SUMMARY OF QUANTITIES V				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PP22318-sht-SOQ-05.dgn		DRAWN - AG	REVISED -		3533	17-00083-01-BR	COOK	78	8				
exp U.S. Services Inc. Chicago, IL	PLOT SCALE = 20.0000' / in.	CHECKED - PB	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 61G76				
BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISED -						ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE							
FROM STA	TO STA	EARTH EXCAVATION	TOPSOIL EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	EMBANKMENT	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
FRANKLIN AVENUE							
154+50.00	155+00.00	44	12	0	9	38	29
155+00.00	155+50.00	78	20	0	16	66	50
155+50.00	156+00.00	50	7	0	12	43	31
156+00.00	156+50.00	24	21	0	50	21	-30
156+50.00	157+00.00	19	21	0	68	16	-52
157+00.00	157+50.00	33	29	0	87	28	-59
157+50.00	158+00.00	53	30	0	69	45	-23
158+00.00	158+50.00	32	1	0	7	27	20
158+50.00	159+00.00	0	0	0	2	0	-2
159+00.00	END	0	0	0	0	0	0
TOTAL		334	140	0	319	284	-36

FROM STA	TO STA	SLOPE WALL EXCAVATION
		CU YD
162+95.00	163+00.00	2
163+00.00	163+50.00	31
163+50.00	164+00.00	50
164+00.00	164+50.00	55
164+50.00	165+00.00	55
165+00.00	165+50.00	51
165+50.00	165+97.00	33
165+97.00	END	0
TOTAL		275

NOTE :
SLOPE WALL EXCAVATION WILL BE PAID FOR AS EARTH EXCAVATION.

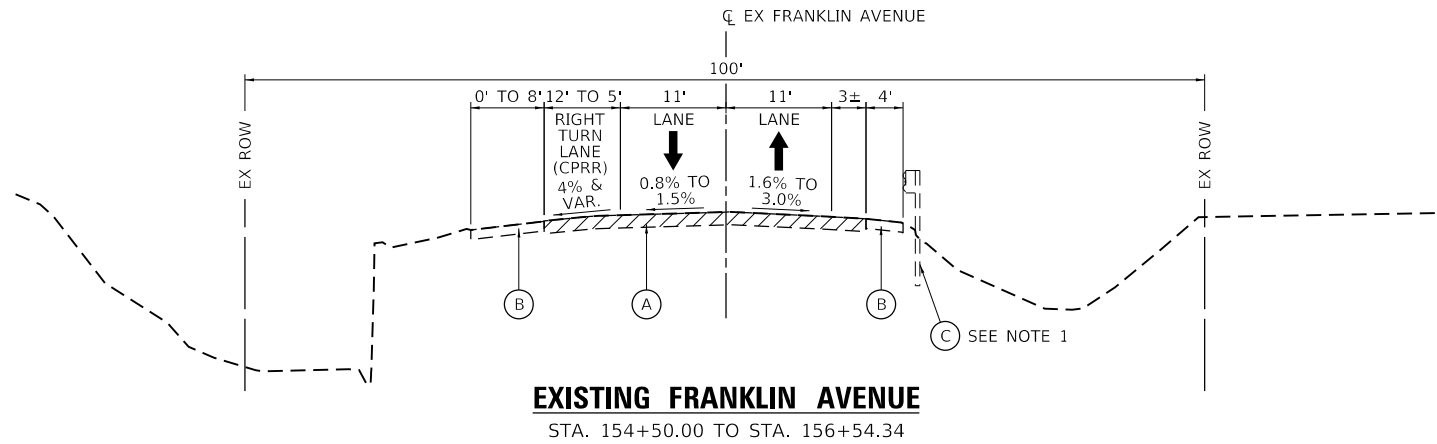
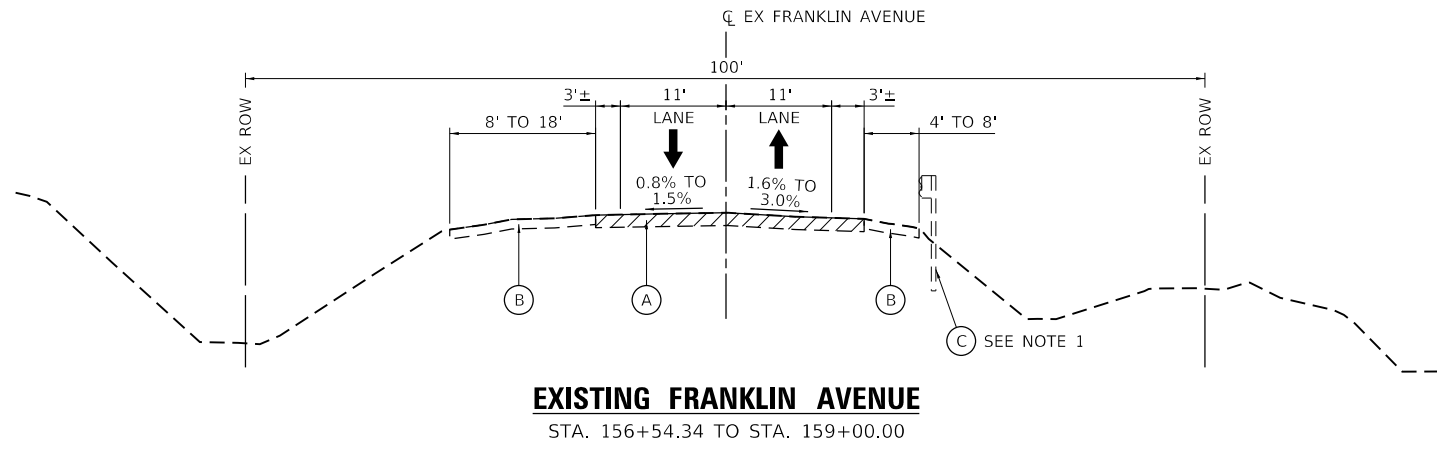
EARTH EXCAVATION = 609 CU YDS

UNSUITABLE MATERIAL = TOPSOIL EXCAVATION + UNSUITABLE MATERIALS
= 140 CU YDS

FURNISHED EXCAVATION = 36 CU YDS

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exp U.S. Services Inc. Chicago, IL BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT SCALE = 20.0000' / in.	CHECKED - PB	REVISED -					CONTRACT NO. 61G76				
PLOT DATE = 10/28/2020	DATE = 10/28/2020	REVISED -	SCALE: N.T.S.		SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS	FED. AID PROJECT



NOTE

1. GUARDRAIL REMOVAL WILL BE FROM STA. 155+00 TO STA. 157+26

EXISTING LEGEND

- REMOVAL
- (A) 8" HMA EXISTING PAVEMENT
- (B) EXISTING AGGREGATE SHOULDER
- (C) EXISTING GUARDRAIL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

EXISTING TYPICAL SECTION
FRANKLIN AVENUE

FILE NAME =	USER NAME = zimona	DESIGNED - AG	REVISED -
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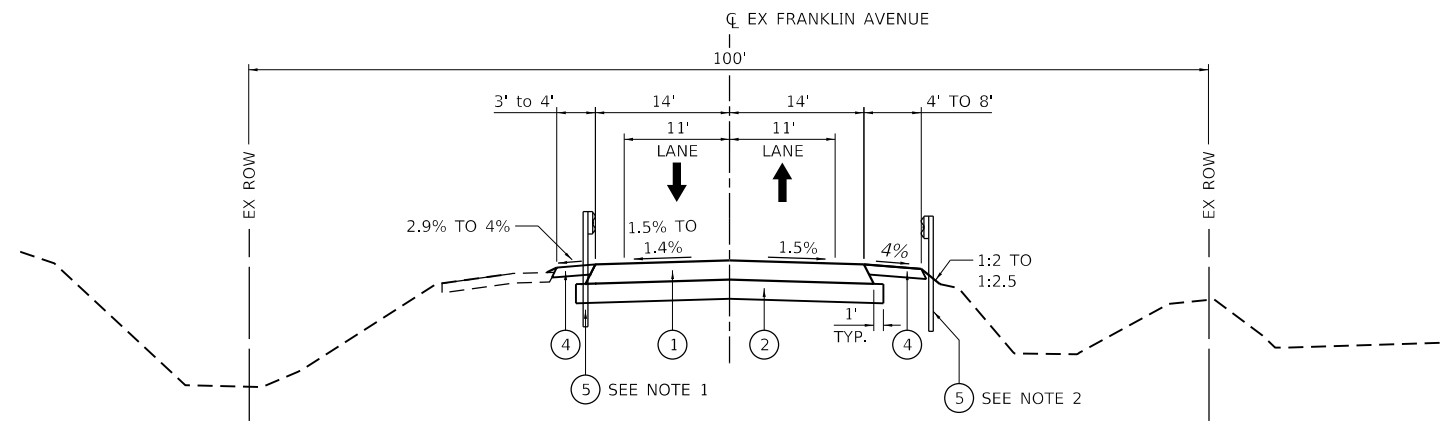
SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	10
CONTRACT NO. 61G76				
ILLINOIS		FED. AID PROJECT		

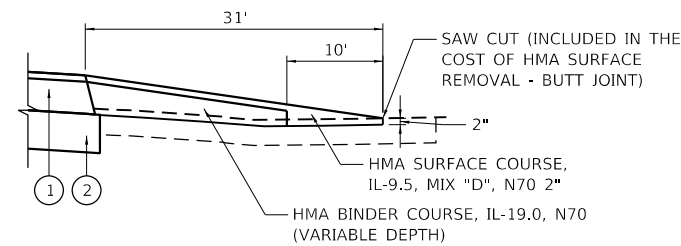
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HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ NODES
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 10"	4% @ 70 GYR.
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 2"	4% @ 70 GYR.
DRIVEWAY	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (VARIABLE DEPTH)	4% @ 70 GYR.

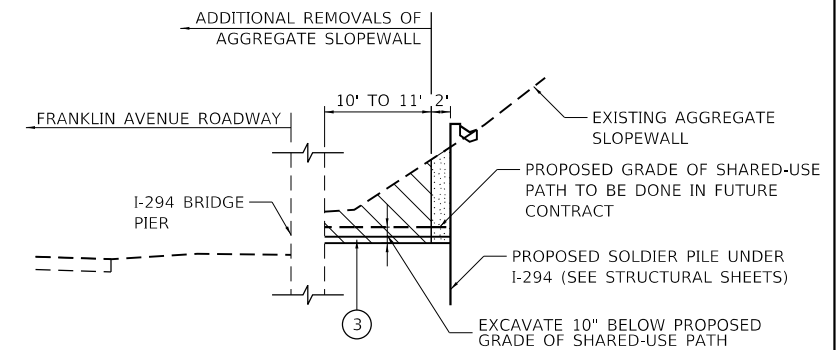
1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.



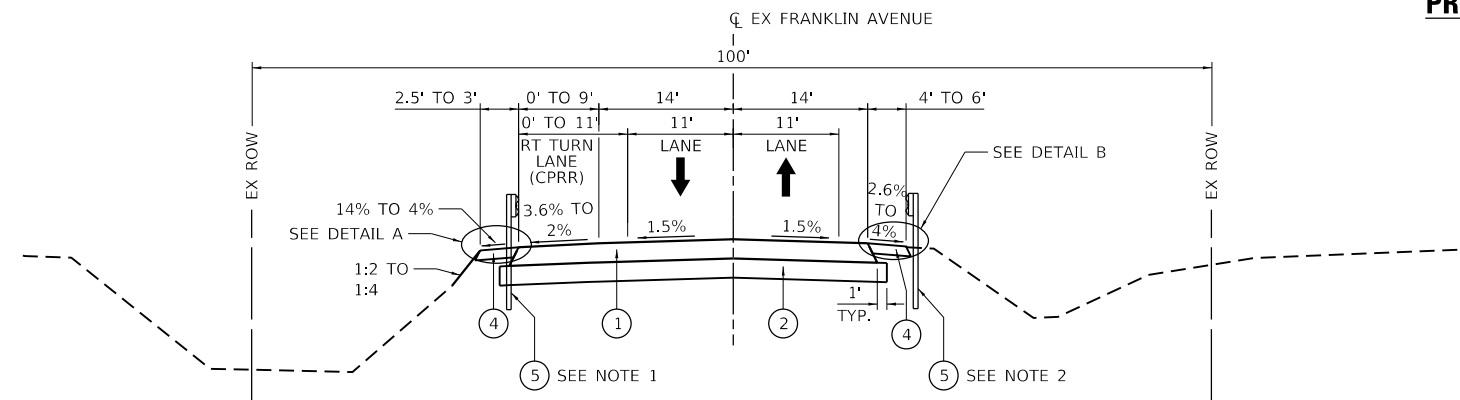
PROPOSED FRANKLIN AVENUE
STA. 156+26.00 TO STA. 159+00.00



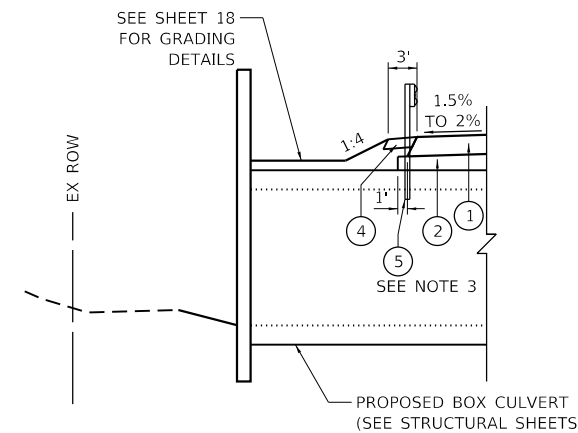
PROPOSED COMMERCIAL DRIVEWAY
STA. 155+81.46 TO STA. 156+05.43



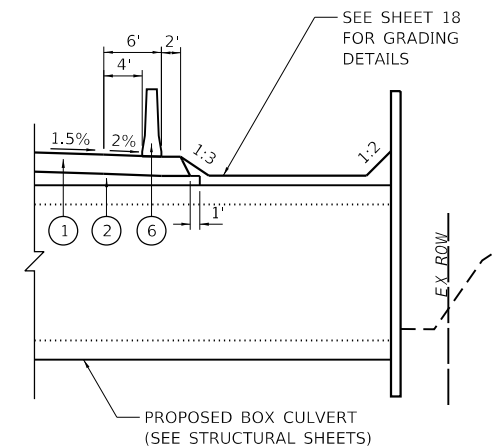
PROPOSED GRADING UNDER I-294 BRIDGE
STA. 162+95.38 TO STA. 165+97.38



PROPOSED FRANKLIN AVENUE
STA. 154+50.00 TO STA. 156+26.00



DETAIL A
STA. 156+32.91 TO STA. 156+70.41



DETAIL B
STA. 156+56.71 TO STA. 156+98.62

NOTE

1. GUARDRAIL INSTALLATION BEGINS AT STA. 155+21 AND ENDS AT STA. 157+04
2. GUARDRAIL INSTALLATION BEGINS AT STA. 155+00 AND ENDS AT STA. 158+52
3. GUARDRAIL INSTALLATION OVER CULVERT WILL BE PAID AS STEEL PLATE BEAM GUARDRAIL, TYPE A AND SHALL BE INSTALLED PER HIGHWAY STANDARD 630101.

PROPOSED LEGEND

- | | | |
|--|--|--|
| ① HMA PAVEMENT (FULL DEPTH) , 12" | | MEASURED AND PAID FOR AS STRUCTURAL EXCAVATION |
| ② AGGREGATE SUBGRADE IMPROVEMENT 12" | | |
| ③ SUBBASE GRANULAR MATERIAL, TYPE B, 4" | | MEASURED AND PAID FOR AS EARTH EXCAVATION |
| ④ AGGREGATE SHOULDER, TYPE B 6" | | |
| ⑤ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS | | |
| ⑥ TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY) | | |

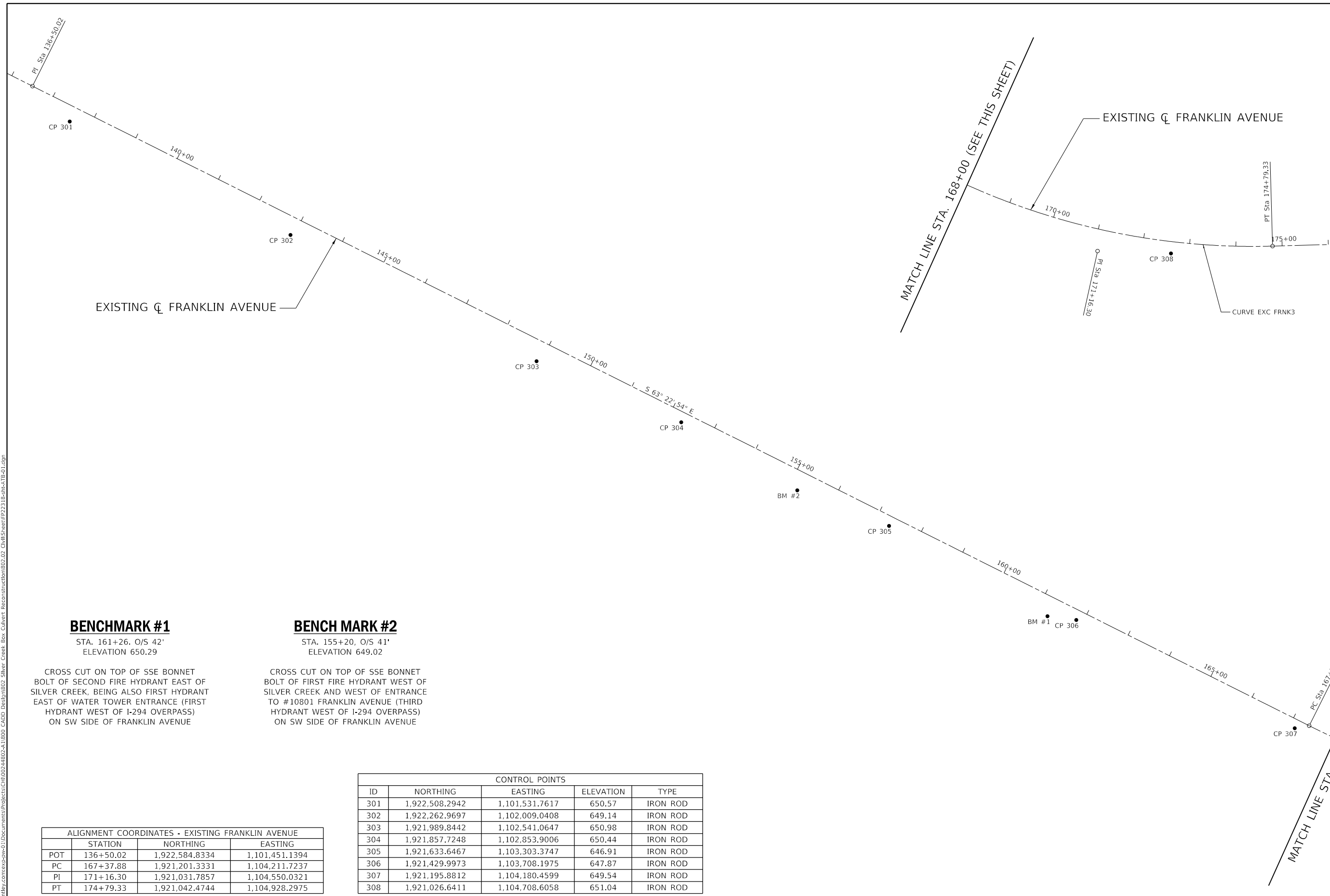
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

PROPOSED TYPICAL SECTION
FRANKLIN AVENUE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	11
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				

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

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EXIST, CURVE EXC_FRNK3
 PI STA. = 171+16.30
 Δ = 28° 14' 13" (LT)
 D = 3° 48' 30"
 R = 1,504.49'
 T = 378.42'
 L = 741.45'
 E = 46.86'
 e = N.C.
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 167+37.88
 P.T. STA. = 174+79.33

BENCHMARK #1

STA. 161+26.0/S 42'
 ELEVATION 650.29

CROSS CUT ON TOP OF SSE BONNET BOLT OF SECOND FIRE HYDRANT EAST OF SILVER CREEK, BEING ALSO FIRST HYDRANT EAST OF WATER TOWER ENTRANCE (FIRST HYDRANT WEST OF I-294 OVERPASS) ON SW SIDE OF FRANKLIN AVENUE

BENCHMARK #2

STA. 155+20, O/S 41'
 ELEVATION 649.02

CROSS CUT ON TOP OF SSE BONNET BOLT OF FIRST FIRE HYDRANT WEST OF SILVER CREEK AND WEST OF ENTRANCE TO #10801 FRANKLIN AVENUE (THIRD HYDRANT WEST OF I-294 OVERPASS) ON SW SIDE OF FRANKLIN AVENUE

CONTROL POINTS

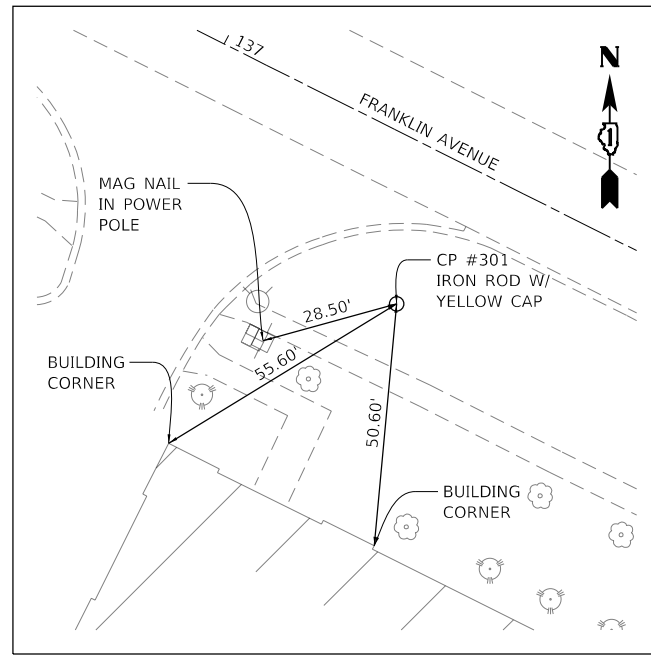
ID	NORTHING	EASTING	ELEVATION	TYPE
301	1,922,508.2942	1,101,531.7617	650.57	IRON ROD
302	1,922,262.9697	1,102,009.0408	649.14	IRON ROD
303	1,921,989.8442	1,102,541.0647	650.98	IRON ROD
304	1,921,857.7248	1,102,853.9006	650.44	IRON ROD
305	1,921,633.6467	1,103,303.3747	646.91	IRON ROD
306	1,921,429.9973	1,103,708.1975	647.87	IRON ROD
307	1,921,195.8812	1,104,180.4599	649.54	IRON ROD
308	1,921,026.6411	1,104,708.6058	651.04	IRON ROD

ALIGNMENT COORDINATES - EXISTING FRANKLIN AVENUE

	STATION	NORTHING	EASTING
POT	136+50.02	1,922,584.8334	1,101,451.1394
PC	167+37.88	1,921,201.3331	1,104,211.7237
PI	171+16.30	1,921,031.7857	1,104,550.0321
PT	174+79.33	1,921,042.4744	1,104,928.2975

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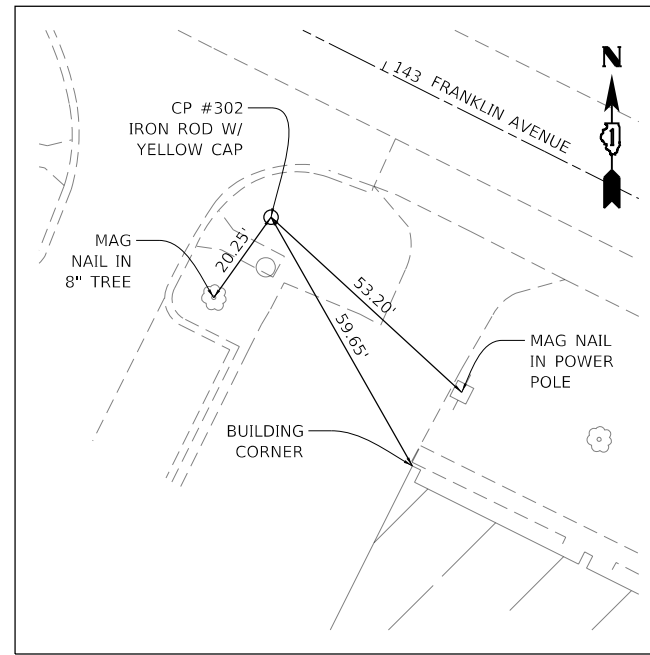
exp U.S. Services Inc. Chicago, IL BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	FILE NAME = FP22318-sht-ATB-01.dgn USER NAME = zmona DESIGNED - AG DRAWN - AG CHECKED - PB DATE - 10/28/2020	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE	ALIGNMENT, TIES AND BENCHMARKS I		F.A.U. RTE. = 3533 SECTION = 17-00083-01-BR COUNTY = COOK TOTAL SHEETS = 78 SHEET NO. = 12 CONTRACT NO. 61G76	SCALE: 1"=100' SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT
	PLOT SCALE = 200.0000' / in. PLOT DATE = 10/28/2020	DATE - 10/28/2020		SCALE: 1"=100' SHEET OF SHEETS STA. TO STA.				



CONTROL POINT #301

SET IRON ROD WITH YELLOW CAP
(NO ID)

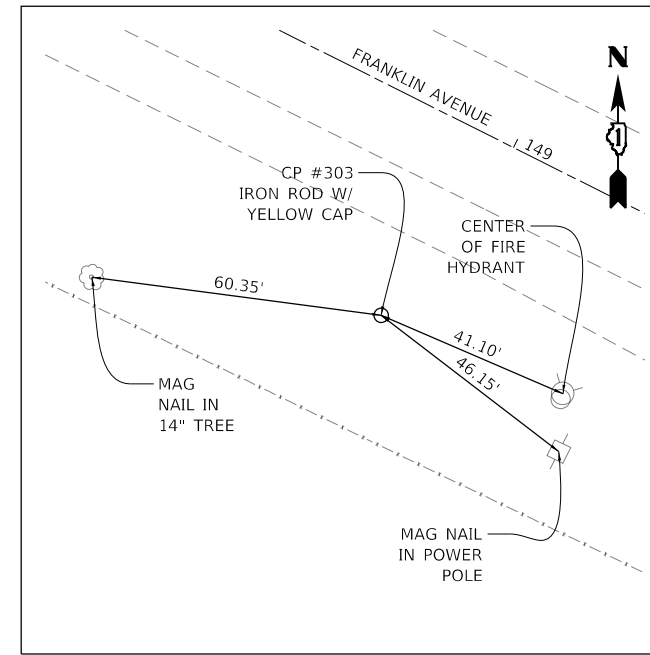
STA. 137+56.39
N 1,922,508.2942
E 1,101,531.7617
ELEV. 650.57



CONTROL POINT #302

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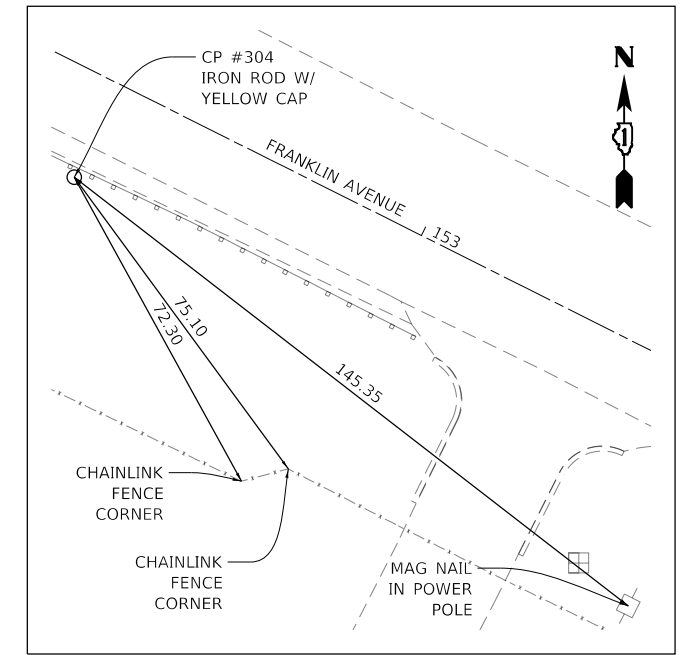
STA. 142+93.00
N 1,922,262.9697
E 1,102,009.0408
ELEV. 649.14



CONTROL POINT #303

SET IRON ROD WITH YELLOW CAP
(NO ID)

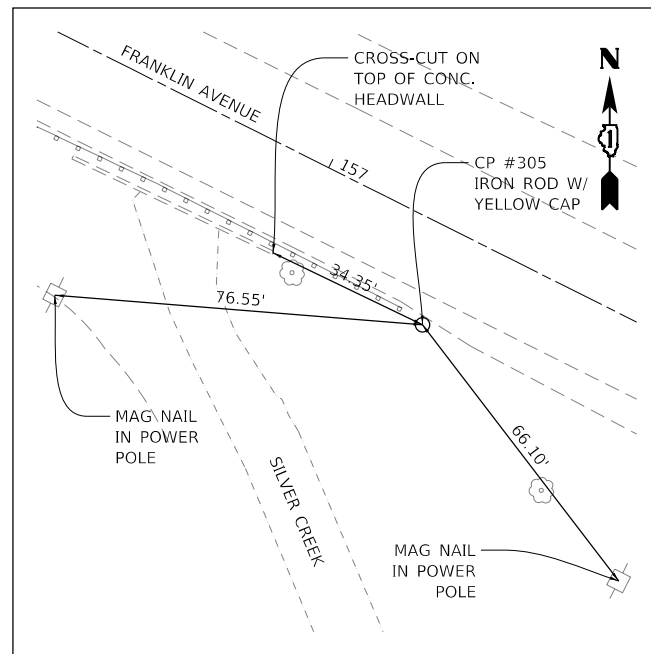
STA. 148+91.00
N 1,921,989.8442
E 1,102,541.0647
ELEV. 650.98



CONTROL POINT #304

SET IRON ROD WITH YELLOW CAP
(NO ID)

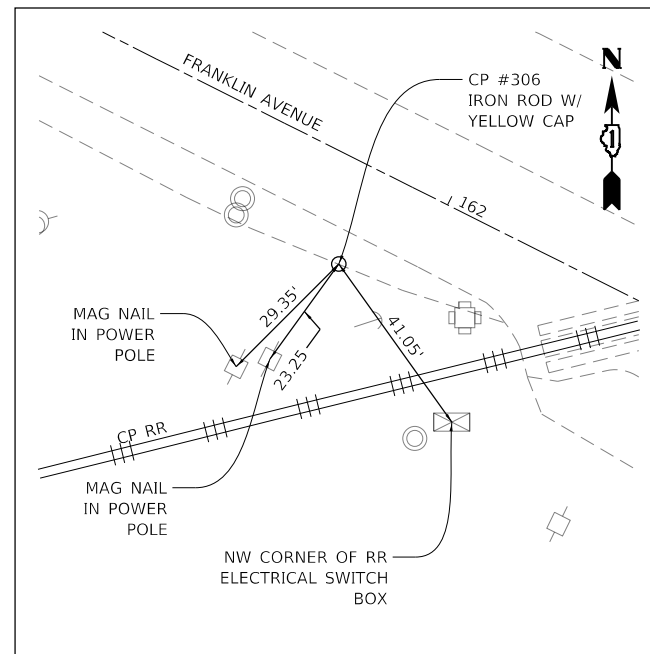
STA. 152+29.88
N 1,921,857.7248
E 1,102,853.9006
ELEV. 650.44



CONTROL POINT #305

SET IRON ROD WITH YELLOW CAP
(NO ID)

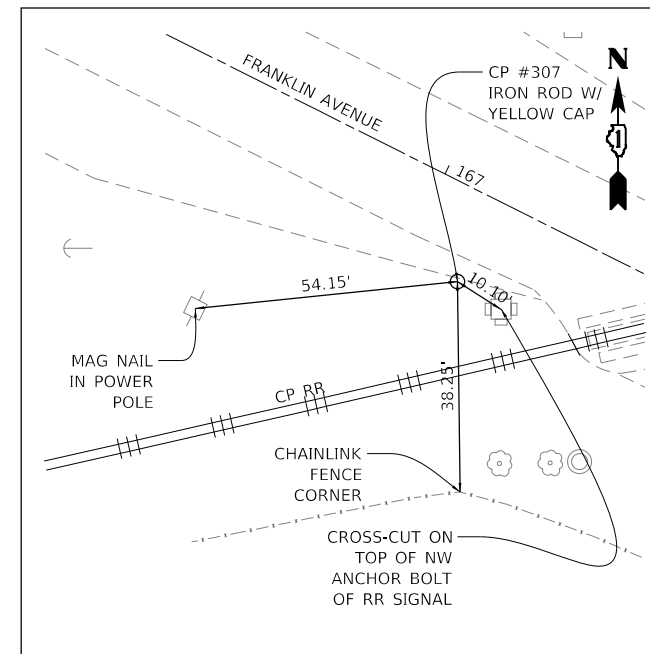
STA. 157+32.11
N 1,921,633.6467
E 1,103,303.3747
ELEV. 646.91



CONTROL POINT #306

SET IRON ROD WITH YELLOW CAP
(NO ID)

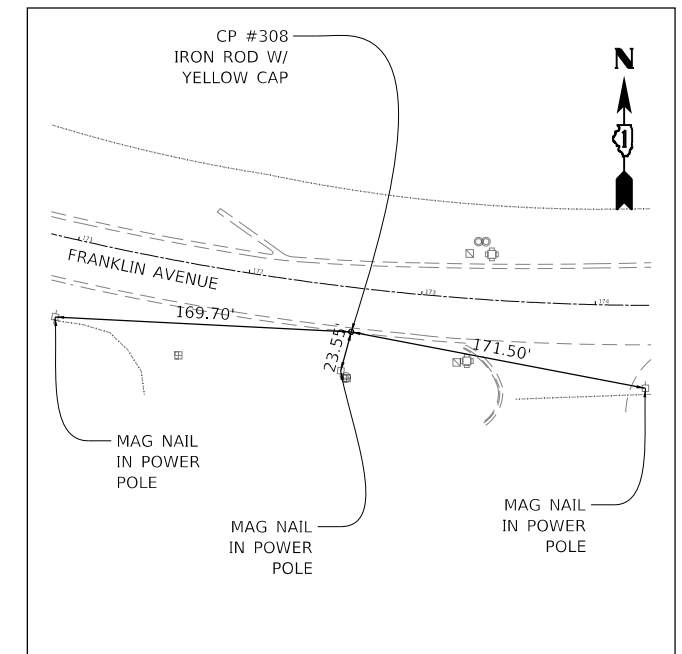
STA. 161+85.27
N 1,921,429.9973
E 1,103,708.1975
ELEV. 647.87



CONTROL POINT #307

SET IRON ROD WITH YELLOW CAP
(NO ID)

STA. 167+12.37
N 1,921,195.8812
E 1,104,180.4599
STA. 649.54



CONTROL POINT #308

SET IRON ROD WITH YELLOW CAP
(NO ID)

STA. 172+62.20
N 1,921,026.6411
E 1,104,708.6058
ELEV. 651.04

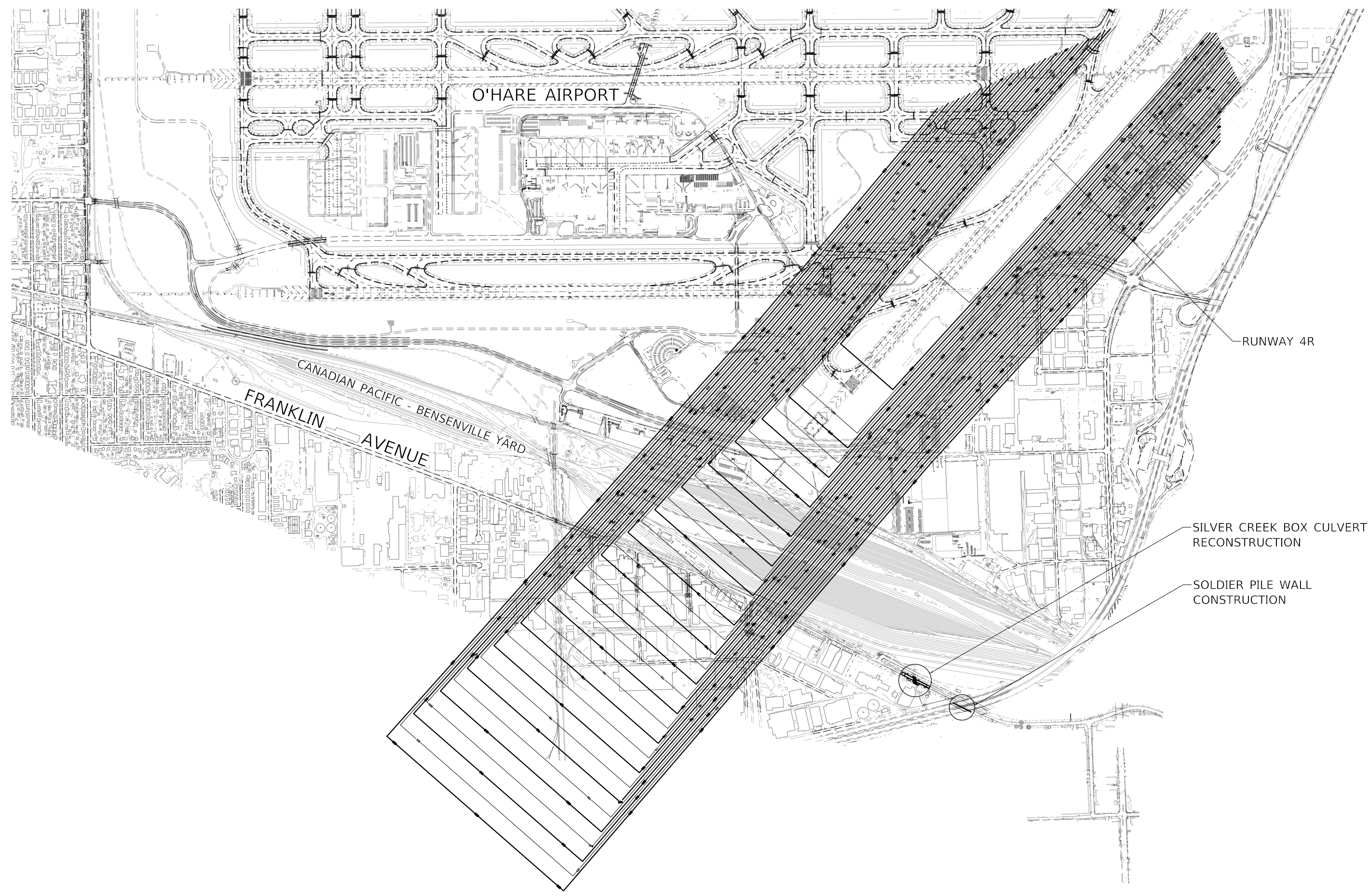
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 exp U.S. Services Inc.
 CHICAGO, IL
 BUILDINGS-EARTH & ENVIRONMENT-ENERGY
 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

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PLOT SCALE = 40.0000' / in.		CHECKED - PB	REVISED -
PLOT DATE = 10/28/2020		DATE - 10/28/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

ALIGNMENT, TIES AND BENCHMARKS			
II			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	13
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				



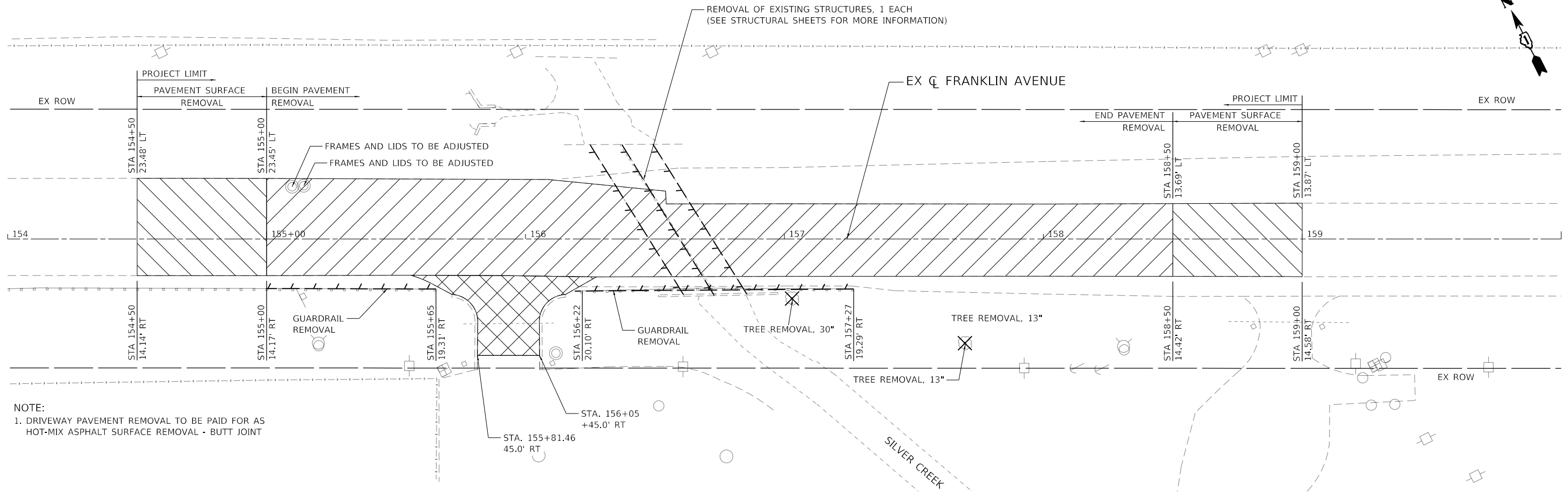
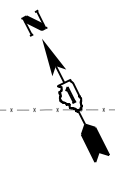
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 exp U.S. Services Inc.
 Chicago, IL
 BUILDINGS-EARTH & ENVIRONMENT-ENERGY
 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

FILE NAME =	USER NAME = zirona	DESIGNED - MM	REVISED -
FP22318-sh-r-runway_clear_zone.dgn		DRAWN - AZ	REVISED -
	PLOT SCALE = 1333.3333 ' / in.	CHECKED - PB	REVISED -
	PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

RUNWAY CLEAR ZONE				
SCALE: N.T.S.	SHEET	OF	SHEETS	STA. 128+00.00 TO STA. 185+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	14
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				



NOTE:
 1. DRIVEWAY PAVEMENT REMOVAL TO BE PAID FOR AS HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

REMOVAL LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL, 2"
- LINEAR REMOVAL
- PAVEMENT SURFACE REMOVAL, 1-1/2"

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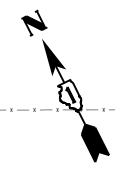
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	PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

EXISTING CONDITIONS AND REMOVAL PLAN
FRANKLIN AVENUE

SCALE: 1"=20' SHEET OF SHEETS STA. 154+00.00 TO STA. 160+00.00

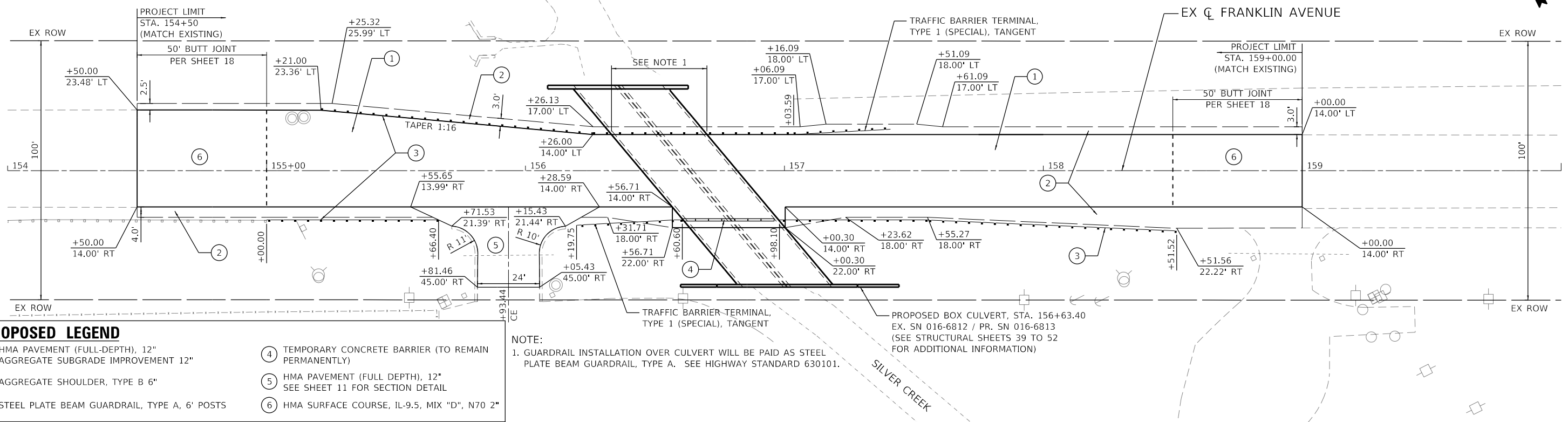
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3533	17-00083-01-BR	COOK	78	15
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	

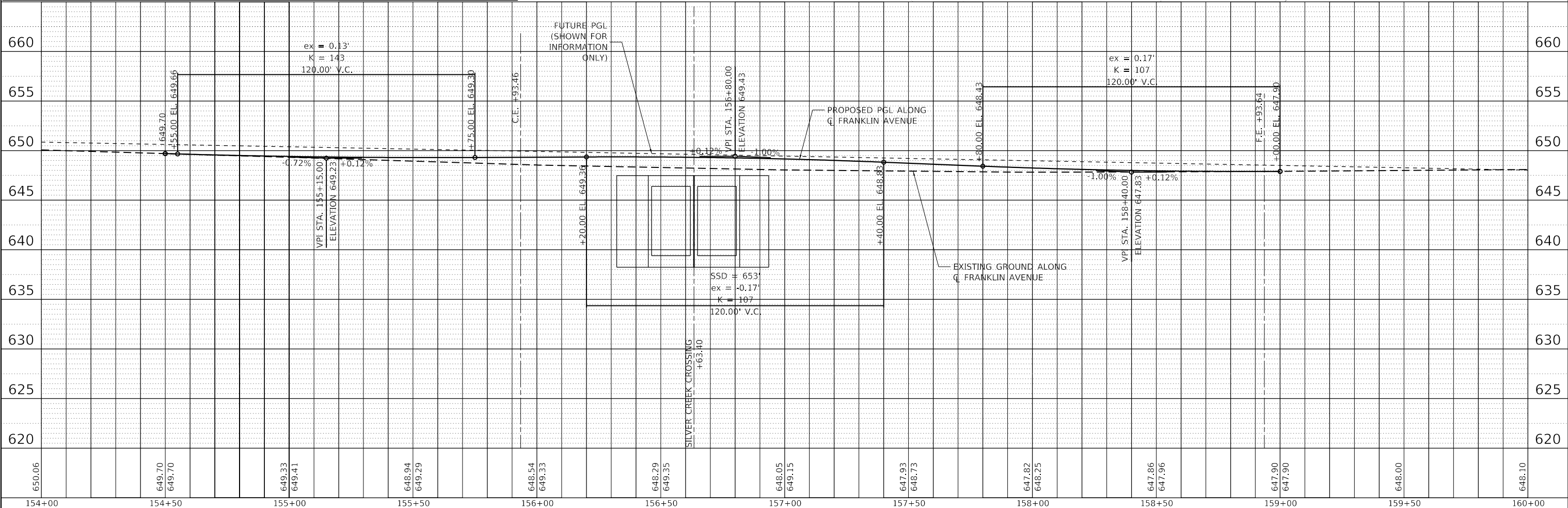
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BY	
PROFILE	
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DATE	
BY	
PLAN	
NO.	

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 PROJECT: Silver Creek Box Culvert Reconstruction
 SHEET: 17-00083-01-BR



- PROPOSED LEGEND**
- ① HMA PAVEMENT (FULL-DEPTH), 12" AGGREGATE SUBGRADE IMPROVEMENT 12"
 - ② AGGREGATE SHOULDER, TYPE B 6"
 - ③ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
 - ④ TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY)
 - ⑤ HMA PAVEMENT (FULL DEPTH), 12" SEE SHEET 11 FOR SECTION DETAIL
 - ⑥ HMA SURFACE COURSE, IL-9.5, MIX "D", N70 2"

NOTE:
 1. GUARDRAIL INSTALLATION OVER CULVERT WILL BE PAID AS STEEL PLATE BEAM GUARDRAIL, TYPE A. SEE HIGHWAY STANDARD 630101.



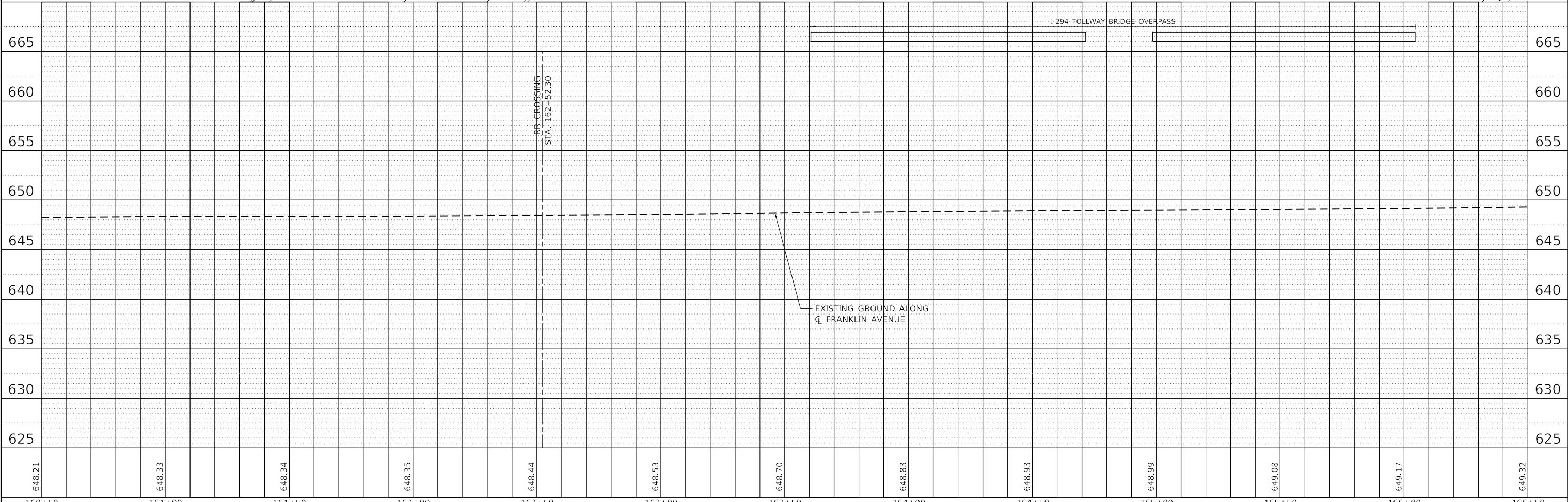
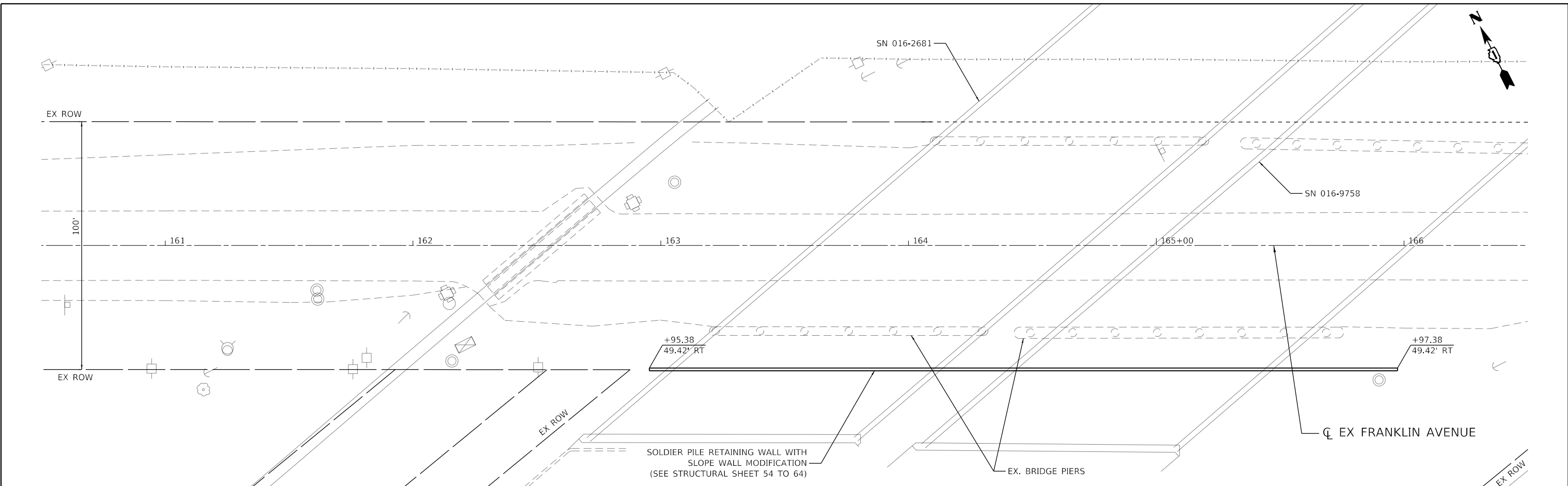
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PLOT DATE = 10/28/2020		DATE - 10/28/2020	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: HORIZ. 1"=20' VERT. 1"=5' STA. 154+00.00 TO STA. 160+00.00

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

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
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exp U.S. Services Inc. CHICAGO, IL BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT SCALE = 40.0000' / in.	CHECKED - PB	REVISED -						
PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISED -	REVISED -						

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. ALL TRAFFIC CONTROL SIGNS AND DEVICES, WORK ZONE PAVEMENT MARKINGS, TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS NECESSARY FOR THE MAINTENANCE OF TRAFFIC, AS SHOWN ON THE PLANS SHALL BE IN PLACE BEFORE THE START OF ANY CONSTRUCTION WORK.
2. THE FURNISHING, INSTALLATION AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTD), ILLINOIS SUPPLEMENT TO THE MUTCD, IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, IDOT STANDARD SPECIFICATIONS, CONTRACT SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
3. IDOT TRAFFIC CONTROL STANDARDS LISTED BY REFERENCE ON SHEET 2 SHALL BE USED AS GUIDES IN IMPLEMENTING THE TRAFFIC CONTROL, INCLUDING SIGN LOCATIONS, FOR THIS PROJECT.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUSINESSES DURING CONSTRUCTION OPERATIONS.
5. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE NAMES AND PHONE NUMBERS OF THEIR REPRESENTATIVES ON THE CONSTRUCTION SITE PRIOR TO THE START OF WORK.
6. STAGED CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL CONFLICTING SIGNS, PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES HAVE BEEN REMOVED OR COVERED AND TEMPORARY TRAFFIC CONTROL MEASURES HAVE BEEN PLACED TO THE SATISFACTION OF THE ENGINEER.
7. WORKER SIGNS (W21-1a(0)-48 AND W20-7(0)-48) SHALL BE TAKEN DOWN OR COVERED AT THE END OF EACH WORKING DAY AND WHEN WORKERS WILL NOT BE PRESENT FOR MORE THAN ONE HOUR.
8. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, THE COST OF ADDITIONAL TEMPORARY PAVEMENT MARKING IS INCLUDED IN APPLICABLE PAY ITEM FOR TEMPORARY PAVEMENT MARKING OF THE WIDTH SPECIFIED.
9. DRUMS OR TYPE II BARRICADES AND VERTICAL PANELS SHALL BE PLACED AT 50' INTERVALS ALONG THE PROPOSED CONSTRUCTION WORK ZONE, AT 10' INTERVALS IN CURVES, AND AT 20' INTERVALS IN TAPER SECTIONS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
10. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
11. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE CONSTRUCTION SIGNING. SIGNS SHALL BE ERECTED ONE WEEK IN ADVANCE OF THE START OF CONSTRUCTION AND SHALL BE REMOVED OR COVERED WHEN PROTECTION IS NOT REQUIRED.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING AND/OR PROPOSED DRAINAGE AND ROADWAY LIGHTING DURING THE DURATION OF THE PROJECT.
13. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, THE POST SHALL HAVE A REFLECTIVE 3" X 6" DELINEATOR INSTALLED.
14. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED, OR OTHERWISE AFFECTED BY CONSTRUCTION.
15. EXCAVATION AND PAVEMENT WIDENING ON BOTH SIDES OF THE PAVEMENT AT ANY ONE LOCATION AT THE SAME TIME WILL NOT BE PERMITTED PER ARTICLE 701.08 OF THE IDOT SPECS.
16. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE 11' THRU-LANE IN EACH DIRECTION OF TWO-WAY TRAFFIC FLOW (UNLESS OTHERWISE SPECIFIED) ON FRANKLIN AVENUE, WILLIAMS DRIVE AND BELMONT AVENUE AT ALL TIMES. A MINIMUM OF 4' CLEARANCE SHALL BE MAINTAINED AT ALL TIMES BETWEEN TRAFFIC AND CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
17. CHANGEABLE MESSAGE SIGN BOARDS SHALL BE INSTALLED TWO WEEKS PRIOR TO THE START OF CONSTRUCTION AS SHOWN ON THE PLANS IDENTIFYING THE BEGINNING DATES OF CONSTRUCTION AND ADDITIONAL INFORMATION SOURCES AS DIRECTED BY THE ENGINEER.
18. THE CONTRACTOR SHALL COORDINATE THE FRANKLIN AVENUE CONSTRUCTION SCHEDULE AND STAGING WITH THE RESPECTIVE UTILITIES, AGENCIES, SCHOOL DISTRICT, MUNICIPALITIES, ADJACENT BUSINESSES AND ADJACENT CONSTRUCTION CONTRACTS PRIOR TO STARTING WORK AND THROUGHOUT THE DURATION OF THE CONTRACT.
19. THE CONTRACTOR SHALL PREPARE AND SUBMIT A PROPOSED CONSTRUCTION SCHEDULE THAT MUST BE APPROVED BY THE ENGINEER PRIOR TO STARTING WORK.
20. THE CONTRACTOR SHALL CONTACT THE IDOT D1 TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

SUGGESTED STAGING AND SEQUENCE OF CONSTRUCTION

FOR REMOVAL AND RECONSTRUCTION OF THE BOX CULVERT AT SILVER CREEK, THE CONTRACTOR WILL BE ALLOWED TO CLOSE FRANKLIN AVENUE AND DETOUR TRAFFIC ACCORDING TO DETOUR ROUTE AS SHOWN IN THE PLANS FOR THE PERIOD SPECIFIED IN THE SPECIAL PROVISIONS. PRIOR TO CLOSURE OF FRANKLIN AVENUE AND IMPLEMENTATION OF THE DETOUR, THE CONTRACTOR MUST FULLFILL THE FOLLOWING PROVISIONS.

1. ALL THE CONCRETE PRECAST SECTIONS MUST BE FABRICATED AND STORED AT THE JOB SITE OR AN APPROPRIATE STORAGE YARD THAT ENGINEER CAN VERIFY AND CHECK THE PRECAST SECTIONS.
2. CONTRACTOR MUST HAVE COMPLETED THE REQUIRED COORDINATION WITH THE APPLICABLE AGENCIES ACCORDING TO THE VARIOUS PERMIT REQUIREMENTS IDENTIFIED IN SPECIAL PROVISIONS.
3. CONTRACTOR MUST HAVE COORDINATED WITH THE IMPACTED UTILITIES FOR THE RECONSTRUCTION OF THE BOX CULVERT AT SILVER CREEK AND DEVELOPED A DETAIL PLAN OF ACTION AS NEEDED.
4. CONTRACTOR MUST PROVIDE A DETAILED SCHEDULE TO THE ENGINEER THAT PRESENTS THAT ADEQUATE PORTION OF THE BOX CULVERT WILL BE INSTALLED DURING CLOSURE PERIOD SO ONE LANE OF TRAFFIC IN EACH DIRECTION OF FRANKLIN AVENUE WILL BE OPEN TO THROUGH TRAFFIC DURING SUBSEQUENT CONSTRUCTION STAGE.

STAGE 1

CONSTRUCTION

1. REMOVE EXISTING BOX CULVERT AND INSTALL PRECAST SECTION OF BOX CULVERT AS SHOWN ON THE PLANS.
2. BEGIN CAST IN PLACE PORTION OF BOX CULVERT AS NEEDED TO BACKFILL, SO ONE LANE IN EACH DIRECTION OF TRAVEL CAN BE OPEN IN THE NEXT STAGE.
3. CONSTRUCT ROADWAY PAVEMENT AND SHOULDER ALONG FRANKLIN AVENUE AS SHOWN ON THE PLANS.
4. INSTALL PROPOSED STORM SEWER EAST AND WEST SIDE OF BOX CULVERT.
5. RELOCATE CONFLICTING UTILITIES TO THE LOCATION IDENTIFIED ON THE PLANS.
6. INSTALL PERMANENT PAVEMENT MARKING ALONG FRANKLIN AVENUE AT THE END OF STAGE 1.

TRAFFIC CONTROL

1. CLOSE FRANKLIN AVENUE IN BOTH DIRECTIONS BETWEEN I-294 AND WEST OF SILVER CREEK.
2. DETOUR BOTH DIRECTIONS TRAFFIC AND INSTALL DETOUR SIGNS ALONG THE ROUTE SHOWN ON THE PLANS.
3. CONTRACTOR IS ALLOWED TO CLOSE ONE LANE ON FRANKLIN AVENUE FOR THE DURATION SPECIFIED IN "KEEPING THE ARTERIAL ROAD OPEN TO TRAFFIC" SPECIAL PROVISION UTILIZING THE APPLICABLE HIGHWAY STANDARD.
4. CONTRACTOR SHALL COORDINATE WITH ADJACENT BUSINESSES AND PROVIDE ACCESS TO BUSINESSES AT ALL TIMES DURING CONSTRUCTION.

STAGE 2

CONSTRUCTION

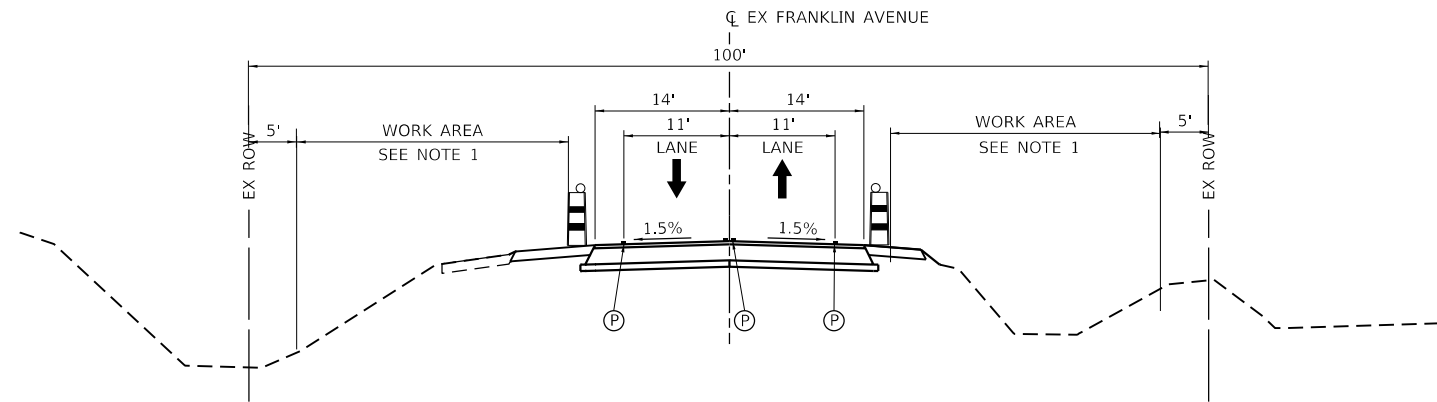
1. COMPLETE CONSTRUCTION OF CAST IN PLACE PORTIONS OF THE BOX CULVERT, HEADWALL, WINGWALL AND INSTALL ALUMINUM RAILING ON SOUTH HEADWALL.
2. CONSTRUCT SOLDIER PILE RETAINING WALL UNDER I-294.
3. INSTALL TEMPORARY CONCRETE BARRIER AND GUARD RAIL AS SHOWN ON THE PLANS.

TRAFFIC CONTROL

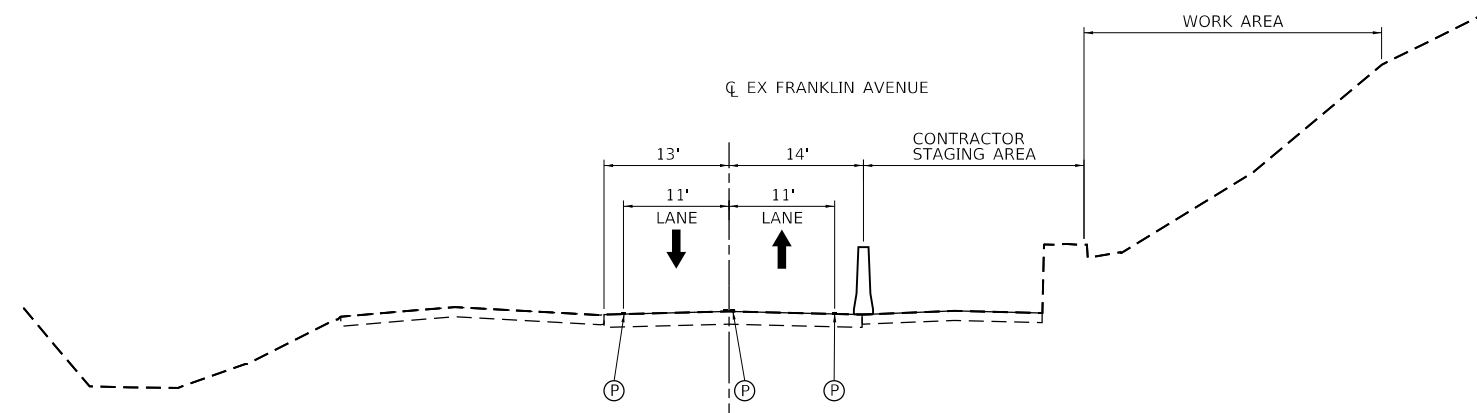
1. MAINTAIN SINGLE LANE TRAFFIC EACH DIRECTION ALONG FRANKLIN AVENUE.
2. CONTRACTOR IS ALLOWED TO CLOSE ONE LANE DURING OFF PEAK HOURS AS SPECIFIED IN "KEEPING THE ARTERIAL ROADWAYS OPEN TO TRAFFIC" SPECIAL PROVISION.
3. CONTRACTOR SHALL PROVIDE ACCESS TO ALL BUSINESSES DURING CONSTRUCTION AND SHALL COORDINATE CONSTRUCTION ACTIVITIES WHEN WORKING IN FRONT OF THE BUSINESSES.

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PLOT SCALE = 20.0000' / in. PLOT DATE = 10/28/2020			SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 61G76 ILLINOIS FED. AID PROJECT		



FRANKLIN AVENUE – STAGE 2
STA 155+75 TO 157+75



FRANKLIN AVENUE – STAGE 2
STA 163+00 TO 166+00

NOTE

1. WORK AREA DURING STAGE 2 IS RESTRICTED TO ONE SIDE OF FRANKLIN AVE AT ANY GIVEN TIME.

MOT LEGEND

- WORK AREA
- CONTRACTOR STAGING AREA
- DIRECTION OF TRAVEL
- TYPE II BARRICADE OR DRUM
- PROPOSED TRAFFIC SIGN
- BARRICADE, TYPE III
- MONO-DIRECTIONAL FLASHING LIGHT
- TEMPORARY CONCRETE BARRIER
- PERMANENT PAVEMENT MARKING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

SUGGESTED STAGING AND TRAFFIC CONTROL
TYPICAL SECTIONS











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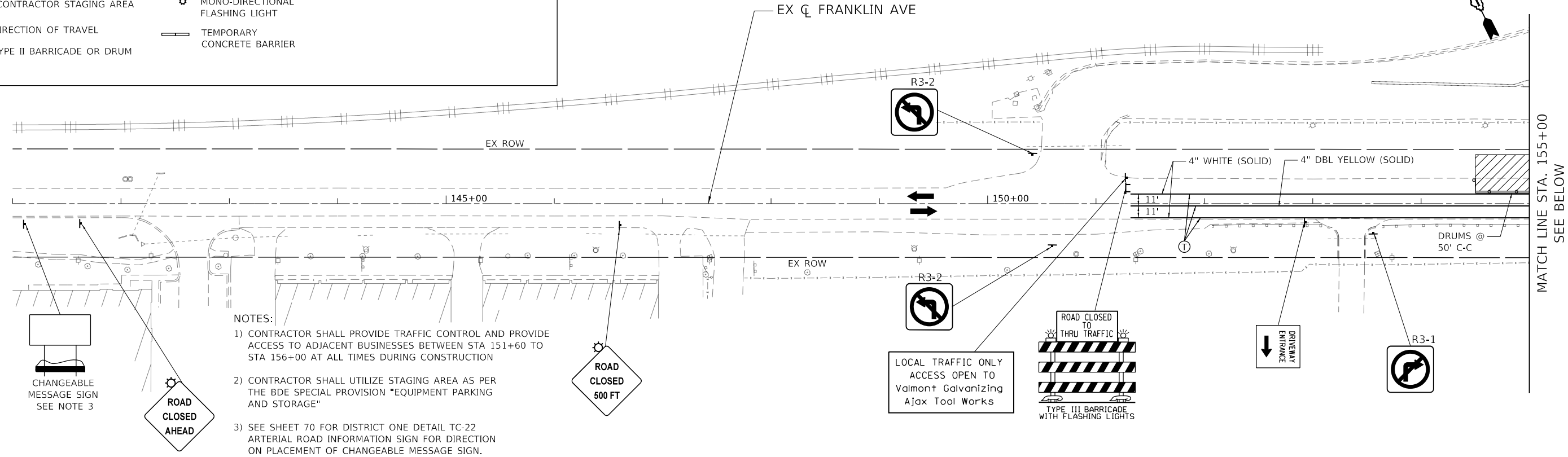
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CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				

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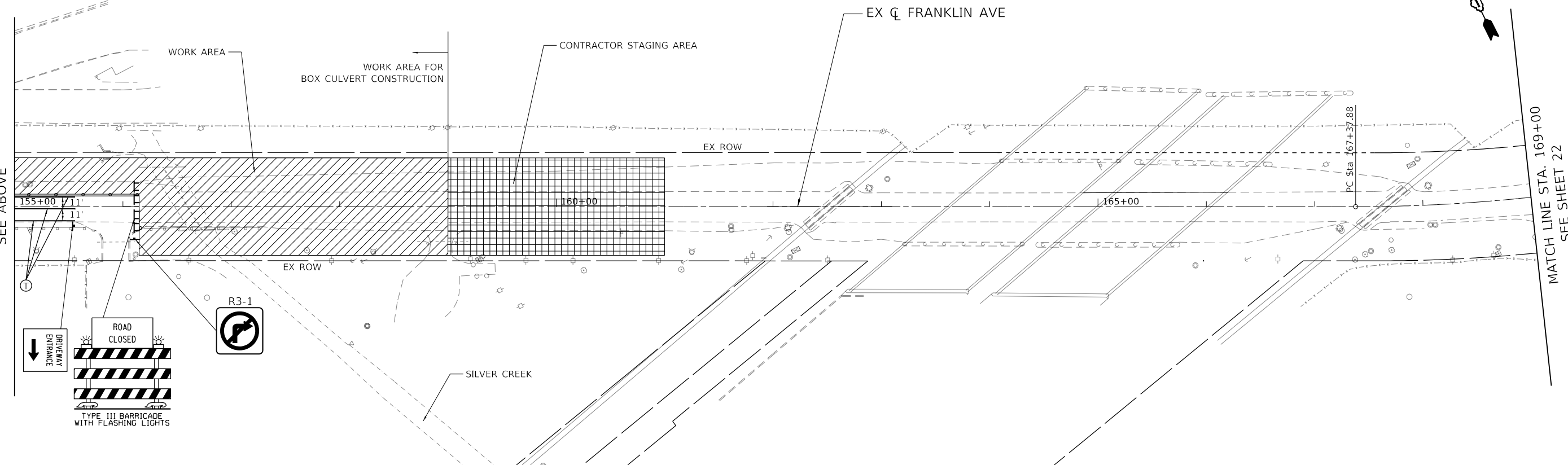
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MOT LEGEND

-  WORK AREA
-  CONTRACTOR STAGING AREA
-  DIRECTION OF TRAVEL
-  TYPE II BARRICADE OR DRUM
-  PROPOSED TRAFFIC SIGN
-  BARRICADE, TYPE III
-  MONO-DIRECTIONAL FLASHING LIGHT
-  TEMPORARY CONCRETE BARRIER
-  PERMANENT PAVEMENT MARKING
-  PAVEMENT MARKING TAPE, TYPE IV 4"



MATCH LINE STA. 155+00
SEE BELOW



MATCH LINE STA. 155+00
SEE ABOVE

MATCH LINE STA. 169+00
SEE SHEET 22

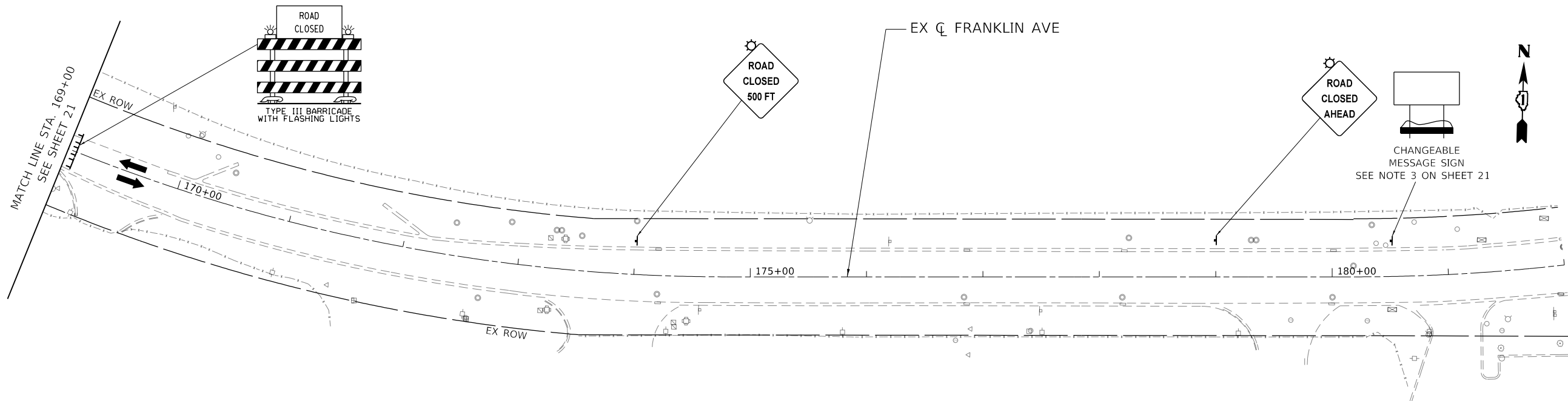
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BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE = 10/28/2020	CHECKED - MM	REVISED -
		DATE - 10/28/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

SUGGESTED STAGING AND TRAFFIC CONTROL STAGE 1			
SCALE: 1"=50'	SHEET	OF	SHEETS
			STA. 139+00.00 TO STA. 169+00.00

F.A.U. RTE. 3533	SECTION 17-00083-01-BR	COUNTY COOK	TOTAL SHEETS 78	SHEET NO. 21
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				



MOT LEGEND

- WORK AREA
- CONTRACTOR STAGING AREA
- DIRECTION OF TRAVEL
- TYPE II BARRICADE OR DRUM
- PROPOSED TRAFFIC SIGN
- BARRICADE, TYPE III
- MONO-DIRECTIONAL FLASHING LIGHT
- TEMPORARY CONCRETE BARRIER
- PERMANENT PAVEMENT MARKING
- PAVEMENT MARKING TAPE, TYPE IV 4"

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 exp U.S. Services Inc.
 Chicago, IL
 BUILDINGS-EARTH & ENVIRONMENT-ENERGY
 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY











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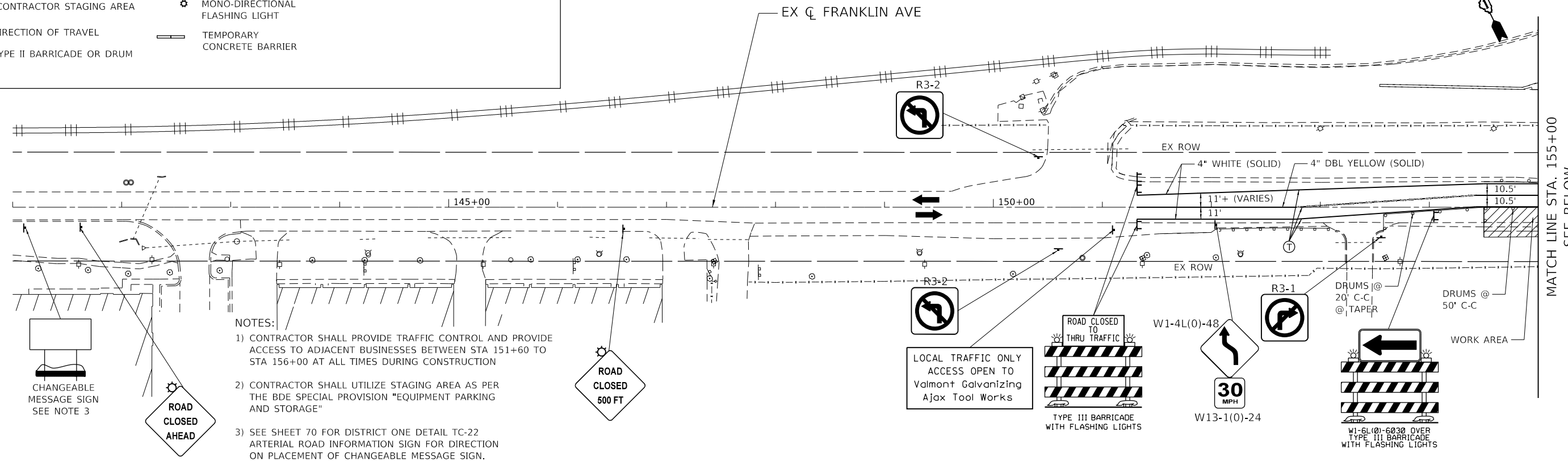
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

SUGGESTED STAGING AND TRAFFIC CONTROL			
STAGE 1			
SCALE: 1"=50'	SHEET	OF	SHEETS
			STA. 169+00.00 TO STA. 184+07.00

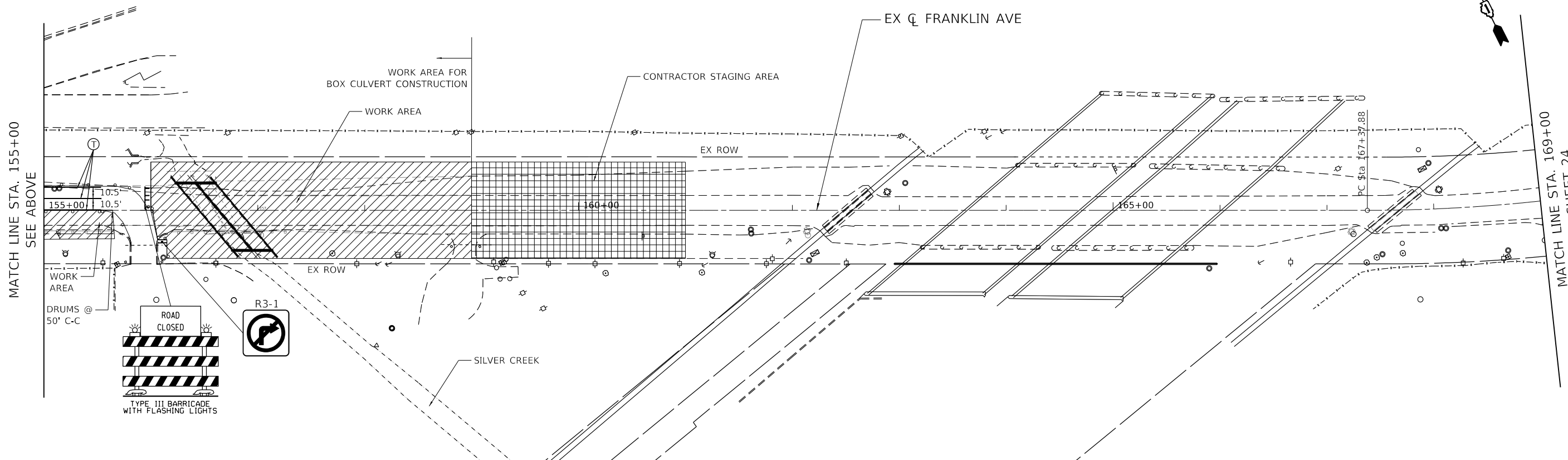
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	22
ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 61G76	

MOT LEGEND

-  WORK AREA
-  CONTRACTOR STAGING AREA
-  DIRECTION OF TRAVEL
-  TYPE II BARRICADE OR DRUM
-  PROPOSED TRAFFIC SIGN
-  BARRICADE, TYPE III
-  MONO-DIRECTIONAL FLASHING LIGHT
-  TEMPORARY CONCRETE BARRIER
-  PERMANENT PAVEMENT MARKING
-  PAVEMENT MARKING TAPE, TYPE IV 4"



MATCH LINE STA. 155+00
SEE BELOW



MATCH LINE STA. 155+00
SEE ABOVE

MATCH LINE STA. 169+00
SEE SHEET 24

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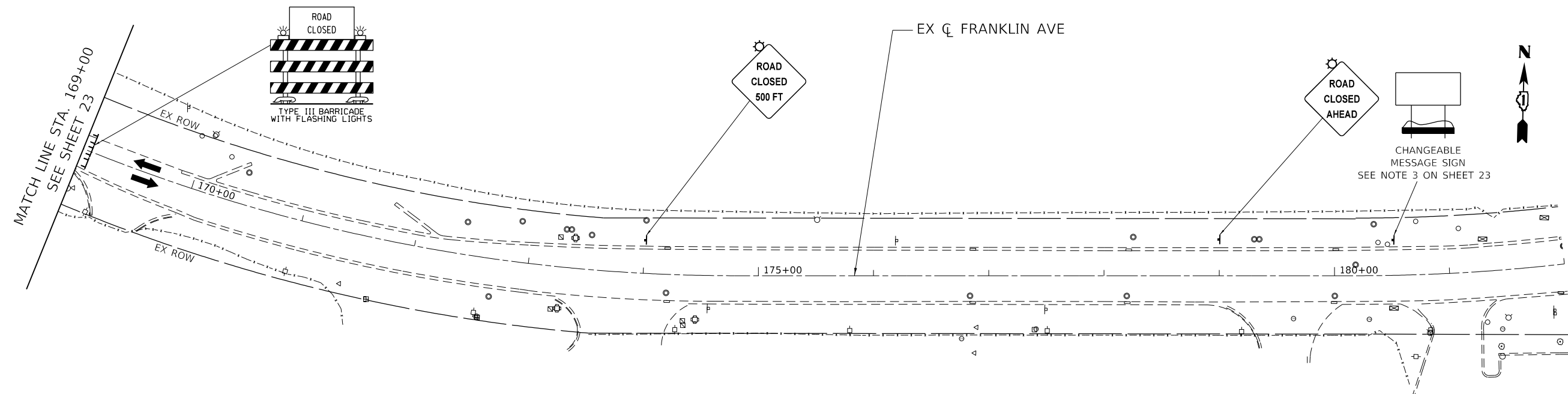
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BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE = 10/28/2020	CHECKED - MM	REVISED -
		DATE - 10/28/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

**SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE 1 SUBSTAGE 1A**

SCALE: 1"=50' SHEET OF SHEETS STA. 139+00.00 TO STA. 169+00.00

F.A.U. RTE. 3533	SECTION 17-00083-01-BR	COUNTY COOK	TOTAL SHEETS 78	SHEET NO. 23
				CONTRACT NO. 61G76
ILLINOIS FED. AID PROJECT				



MOT LEGEND

- | | | |
|---------------------------|---------------------------------|-----------------------------------|
| WORK AREA | PROPOSED TRAFFIC SIGN | PERMANENT PAVEMENT MARKING |
| CONTRACTOR STAGING AREA | BARRICADE, TYPE III | PAVEMENT MARKING TAPE, TYPE IV 4" |
| DIRECTION OF TRAVEL | MONO-DIRECTIONAL FLASHING LIGHT | TEMPORARY CONCRETE BARRIER |
| TYPE II BARRICADE OR DRUM | | |

MODEL: Default
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BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE = 10/28/2020	CHECKED - MM	REVISED -
		DATE - 10/28/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

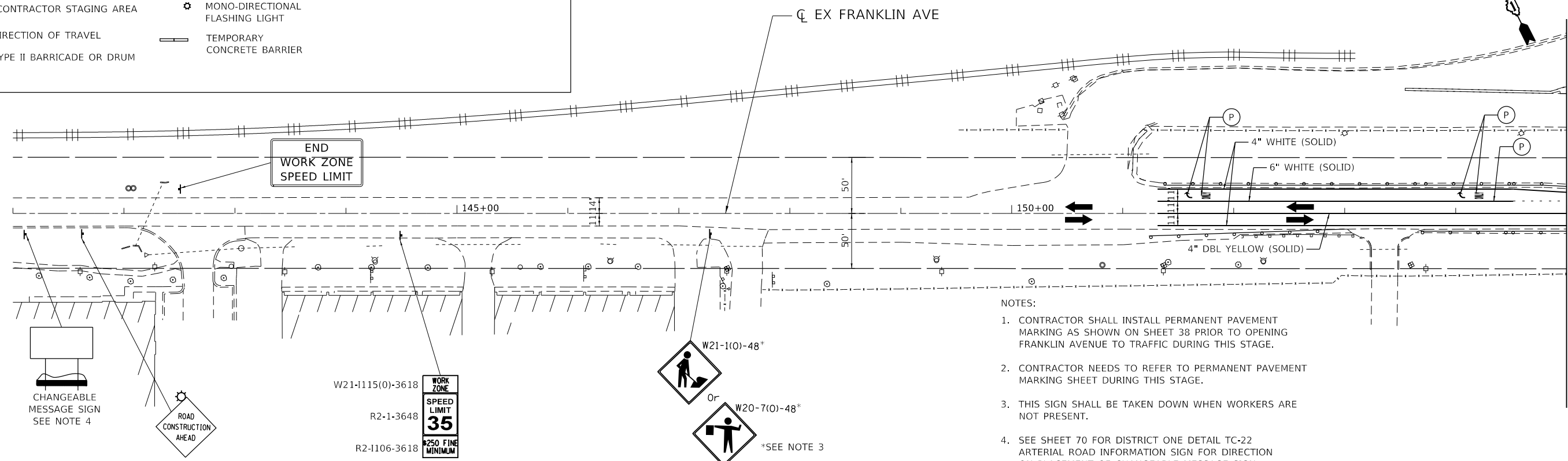
SUGGESTED STAGING AND TRAFFIC CONTROL			
STAGE 1 SUBSTAGE 1A			
SCALE: 1"=50'	SHEET	OF	SHEETS
			STA. 169+00.00 TO STA. 184+07.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	24
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 61G76

MOT LEGEND

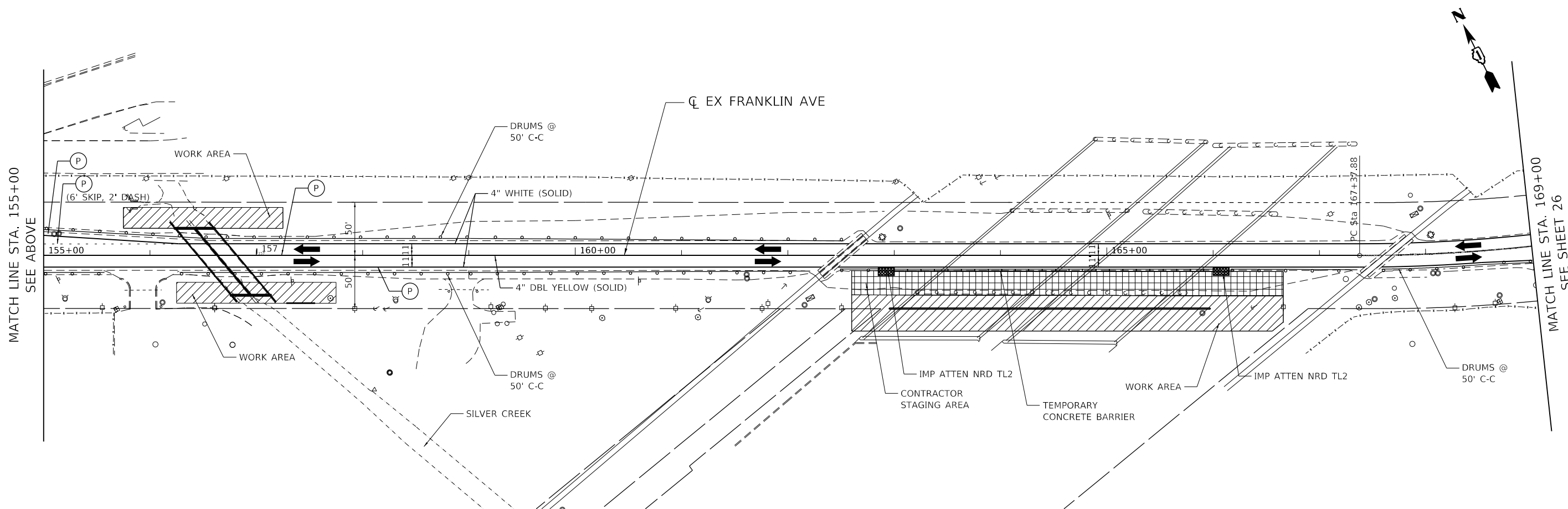
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|---------------------------|---------------------------------|-----------------------------------|
| WORK AREA | PROPOSED TRAFFIC SIGN | PERMANENT PAVEMENT MARKING |
| CONTRACTOR STAGING AREA | BARRICADE, TYPE III | PAVEMENT MARKING TAPE, TYPE IV 4" |
| DIRECTION OF TRAVEL | MONO-DIRECTIONAL FLASHING LIGHT | |
| TYPE II BARRICADE OR DRUM | TEMPORARY CONCRETE BARRIER | |



NOTES:

- CONTRACTOR SHALL INSTALL PERMANENT PAVEMENT MARKING AS SHOWN ON SHEET 38 PRIOR TO OPENING FRANKLIN AVENUE TO TRAFFIC DURING THIS STAGE.
- CONTRACTOR NEEDS TO REFER TO PERMANENT PAVEMENT MARKING SHEET DURING THIS STAGE.
- THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.
- SEE SHEET 70 FOR DISTRICT ONE DETAIL TC-22 ARTERIAL ROAD INFORMATION SIGN FOR DIRECTION ON PLACEMENT OF CHANGEABLE MESSAGE SIGN.

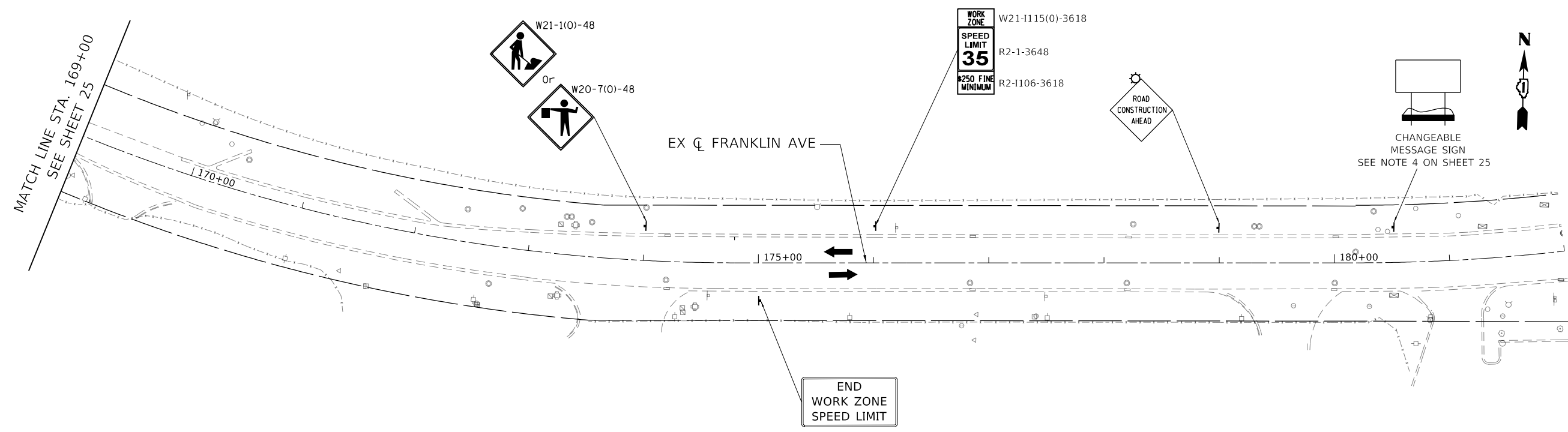
MATCH LINE STA. 155+00
SEE BELOW



MATCH LINE STA. 169+00
SEE SHEET 26

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PLOT SCALE = 100,0000 ' / in. PLOT DATE = 10/28/2020					SCALE: 1"=50' SHEET OF SHEETS STA. 139+00.00 TO STA. 169+00.00			ILLINOIS FED. AID PROJECT				



MOT LEGEND

- | | | |
|---------------------------|---------------------------------|-----------------------------------|
| WORK AREA | PROPOSED TRAFFIC SIGN | PERMANENT PAVEMENT MARKING |
| CONTRACTOR STAGING AREA | BARRICADE, TYPE III | PAVEMENT MARKING TAPE, TYPE IV 4" |
| DIRECTION OF TRAVEL | MONO-DIRECTIONAL FLASHING LIGHT | TEMPORARY CONCRETE BARRIER |
| TYPE II BARRICADE OR DRUM | | |

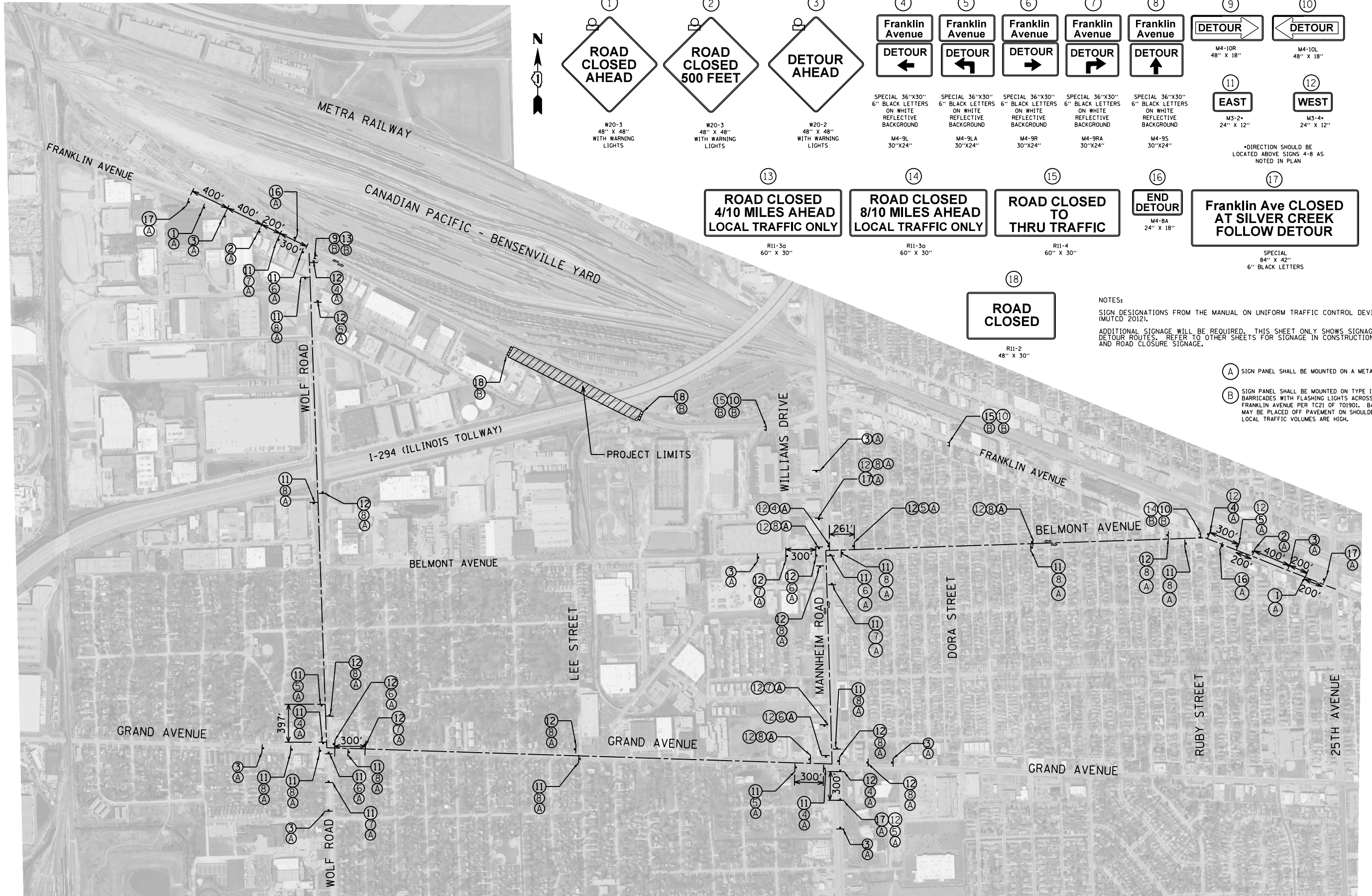
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 exp U.S. Services Inc. Chicago, IL
 BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

SUGGESTED STAGING AND TRAFFIC CONTROL			
STAGE 2			
SCALE: 1"=50'	SHEET	OF	SHEETS
			STA. 169+00.00 TO STA. 184+07.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	26
				CONTRACT NO. 61G76
		ILLINOIS	FED. AID PROJECT	



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 DRAWN: TB
 CHECKED: MM
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 PLOT DATE: 10/28/2020

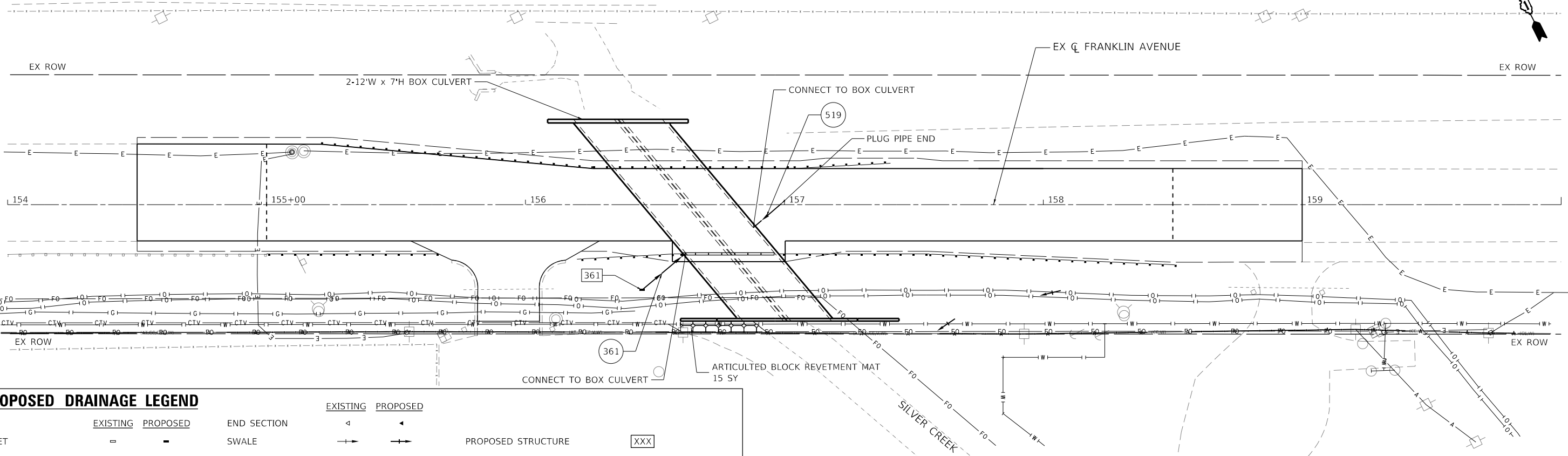
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		CHECKED - MM	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

SUGGESTED STAGING AND TRAFFIC CONTROL
DETOUR ROUTE PLAN

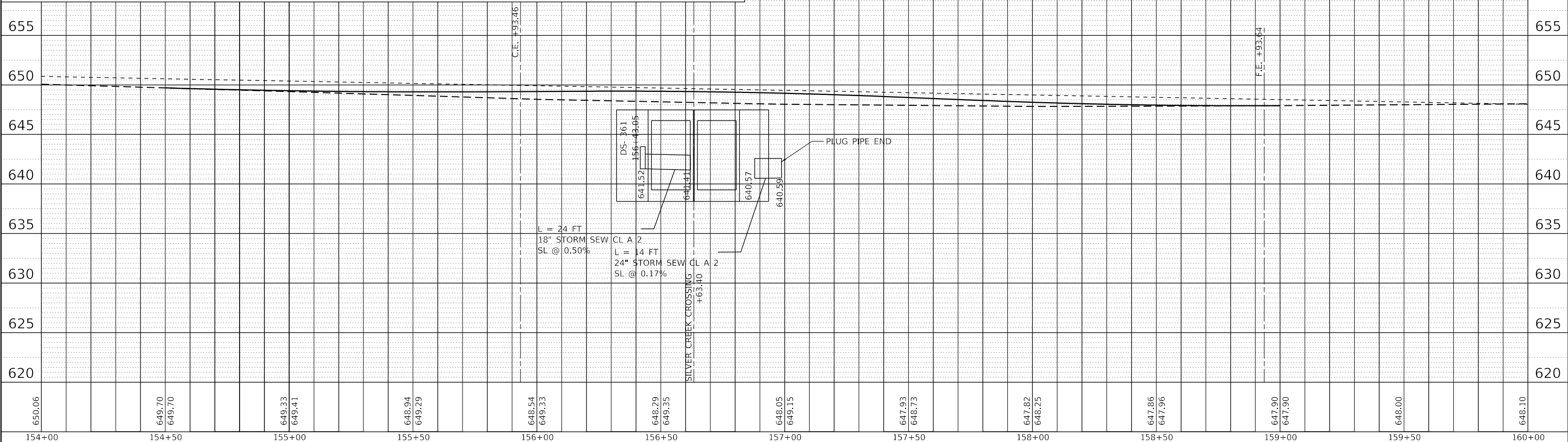
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G76	



PROPOSED DRAINAGE LEGEND

	EXISTING	PROPOSED	EXISTING	PROPOSED		EXISTING	PROPOSED
INLET	⊞	—	◁	◁	PROPOSED STRUCTURE	XXX	XXX
CATCH BASIN	○	●	↔	↔	PROPOSED STORM SEWER	○XXX	○XXX
MANHOLE	○	⊙	↔	↔	ARTICULATED BLOCK REVETMENT MAT	⊞	⊞
			↔	↔			



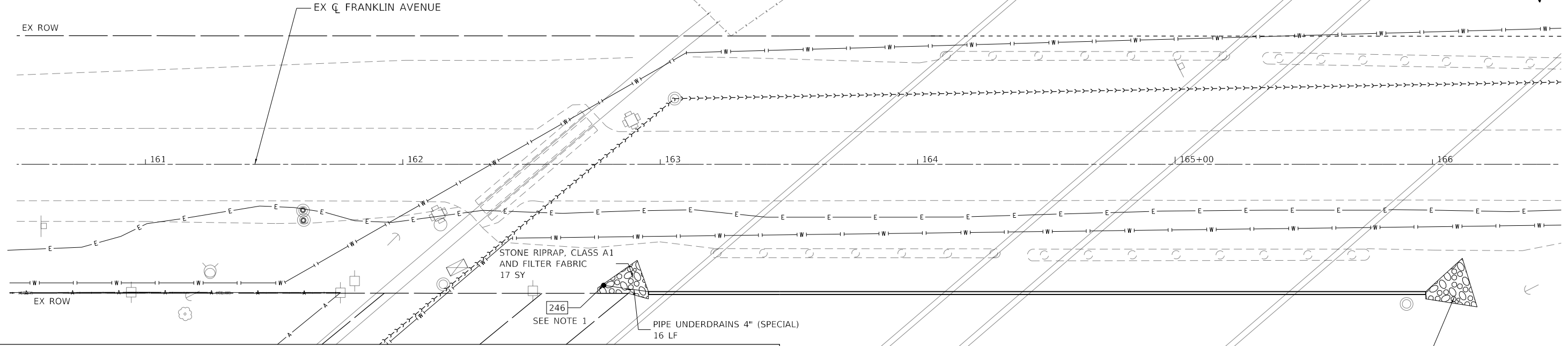
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	PLOTTED	
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	GRADES CHECKED	
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PROFILE	SURVISED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATION CHECKED	
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NOTE:
 1. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAINS 4" (SPECIAL).



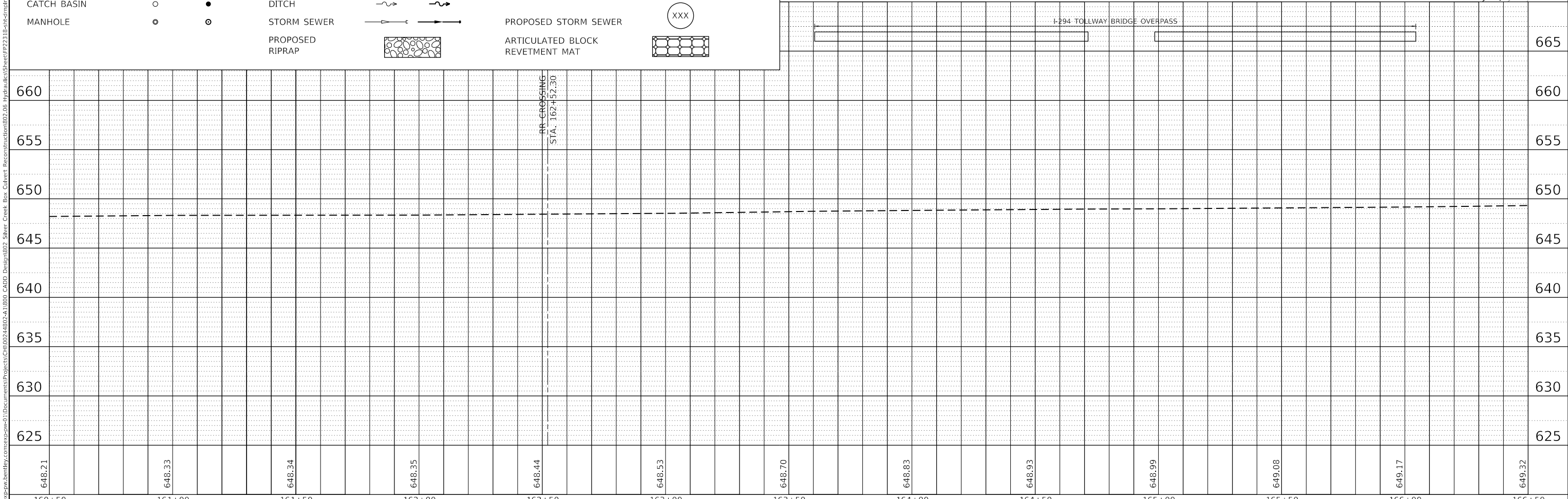
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	NO.	



PROPOSED DRAINAGE LEGEND

	EXISTING	PROPOSED	EXISTING	PROPOSED		
INLET	□	■	◁	▷	PROPOSED STRUCTURE	XXX
CATCH BASIN	○	●	~	~	PROPOSED STORM SEWER	XXX
MANHOLE	○	⊙	→	→	ARTICULATED BLOCK REVETMENT MAT	XXXX
					PROPOSED RIPRAP	XXXX

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
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	NO.	



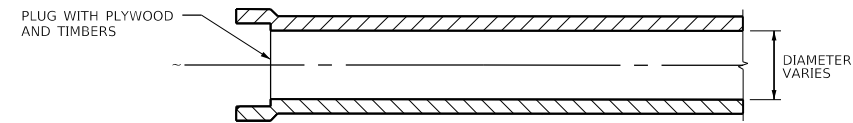
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PLOT SCALE = 40,0000' / in.	CHECKED - HK	REVISOR -	SCALE: HORIZ. 1"=20'			VERT. 1"=5'	STA. 160+50.00	TO STA. 166+50.00	CONTRACT NO. 61G76	
PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISOR -	ILLINOIS FED. AID PROJECT							

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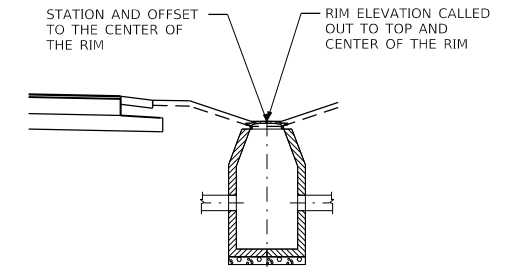
DRAINAGE STRUCTURE SCHEDULE															
STRUCTURE NO.	STRUCTURE DESCRIPTION	CENTERLINE			PROPOSED RIM ELEVATION	INVERTS				PIPE CONNECTIONS (Pipe No. - Pipe Size)				DRAWING NO.	PAY ITEM
		STATION	OFFSET	DIR.		NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST		
361	INLETS TA T8G	156+45.0	32.9	RT	643.73	--	--	641.52	--	--	--	--	361 - DIA 18"	29	60236200
246	CB TA 4 DIA T1F OL	162+78.0	47.0	RT	649.03	--	--	646.84	--	--	--	--	PIPE UNDERDRAIN	30	60200105

DRAINAGE PIPE SCHEDULE									
PIPE NO.	PIPE DESCRIPTION	PIPE SIZE	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (20800150) (CUYD)	SHEET NO.	FROM STR	TO STR	PAY ITEM
361	STORM SEW CL A 2 18	DIA 18"	21	0.50	6.9	29	361	CULV	550A0380
519	STORM SEW CL A 2 24	DIA 24"	14	0.17	15.9	29	PLUG	CULV	550A0410

DRAINAGE SCHEDULE NOTE:
 PLUG = PLUG PIPE END. SEE DETAIL BELOW.
 CULV = CONNECT TO PROPOSED BOX CULVERT



STORM SEWER TEMPORARY PLUG

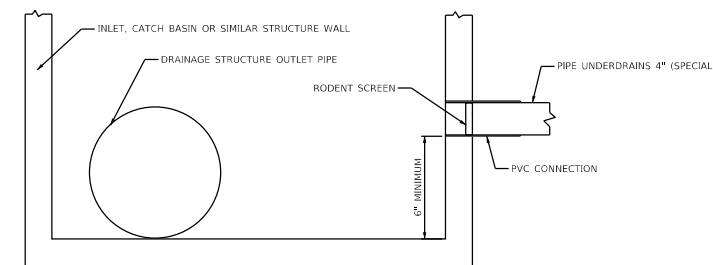


ELEVATION

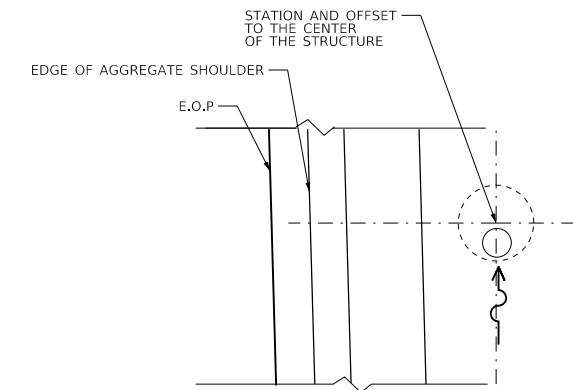
INLET AND CATCH BASIN IN SWALE, DITCH AND SHOULDER

PIPE UNDERDRAINS, 4" (SPECIAL)									
PIPE NO.	SHEET	ALIGNMENT	FROM STATION	FROM OFFSET	FROM STR. NO.	TO STATION	TO OFFSET	TO STR. NO.	LENGTH (FT)
PUDS-1	30	EX FRANKLIN	162+95.38	49.42	SEE NOTE 1	162+78.00	47.00	246	16

PIPE UNDERDRAIN NOTES:
 1. CONNECT PIPE UNDERDRAIN TO RETAINING WALL PIPE DRAIN



DRAINAGE STRUCTURE OUTLET DETAIL
 N.T.S.



PLAN VIEW

INLET AND CATCH BASIN IN SWALE, DITCH AND SHOULDER

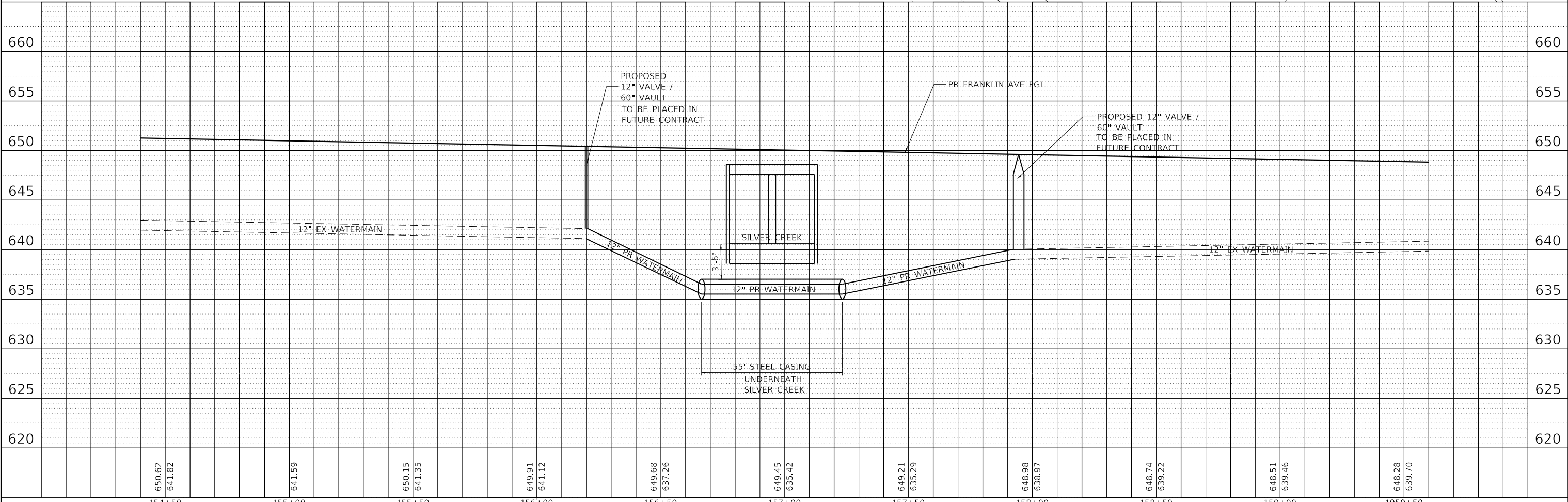
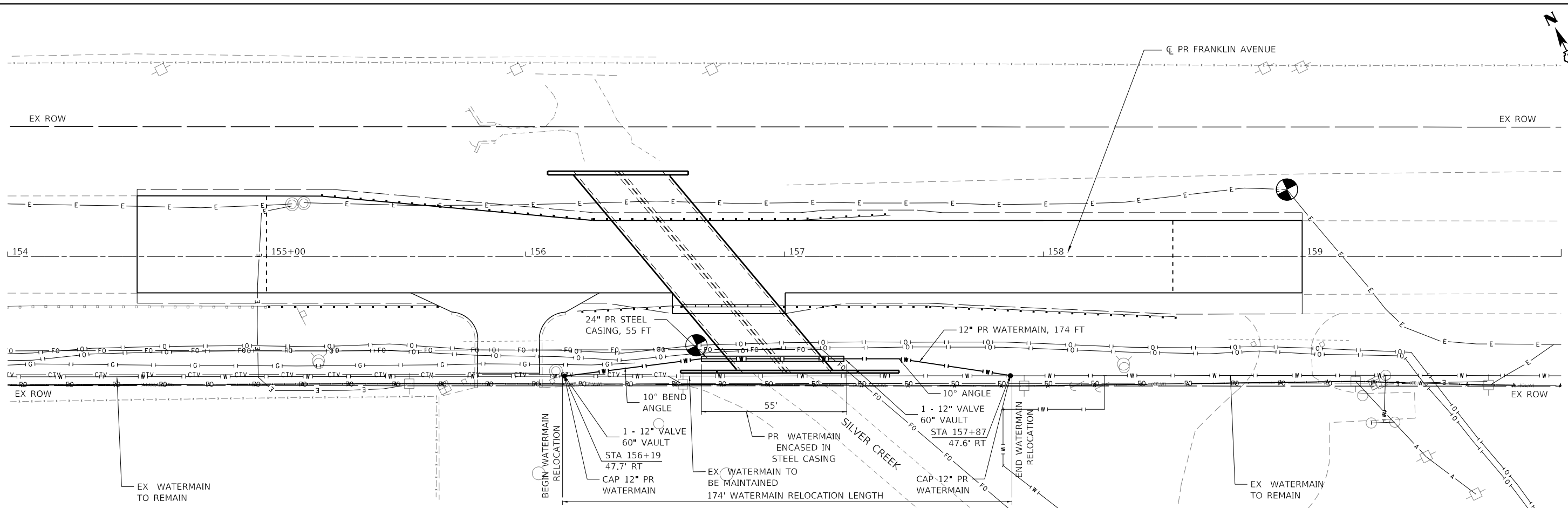
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PLOT SCALE = 2,000' / in.	CHECKED - HK	REVISED -	SCALE: N.T.S.			SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 61G76		ILLINOIS FED. AID PROJECT
PLOT DATE = 10/28/2020	DATE = 10/28/2020	REVISED -								
exp U.S. Services Inc. Chicago, IL BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY										

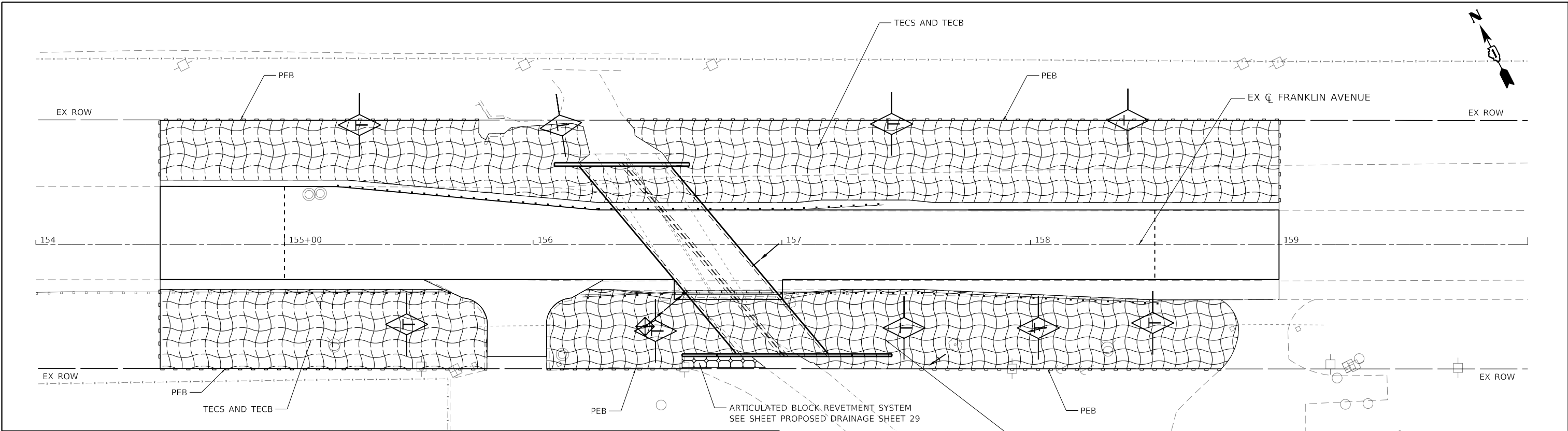
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PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					



PROPOSED EROSION AND SEDIMENT CONTROL LEGEND

	TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET (TECS and TECB)		TEMPORARY DITCH CHECK
	DRAINAGE INLET PROTECTION		
	PERIMETER EROSION BARRIER (PEB)		
	PROPOSED DITCH		

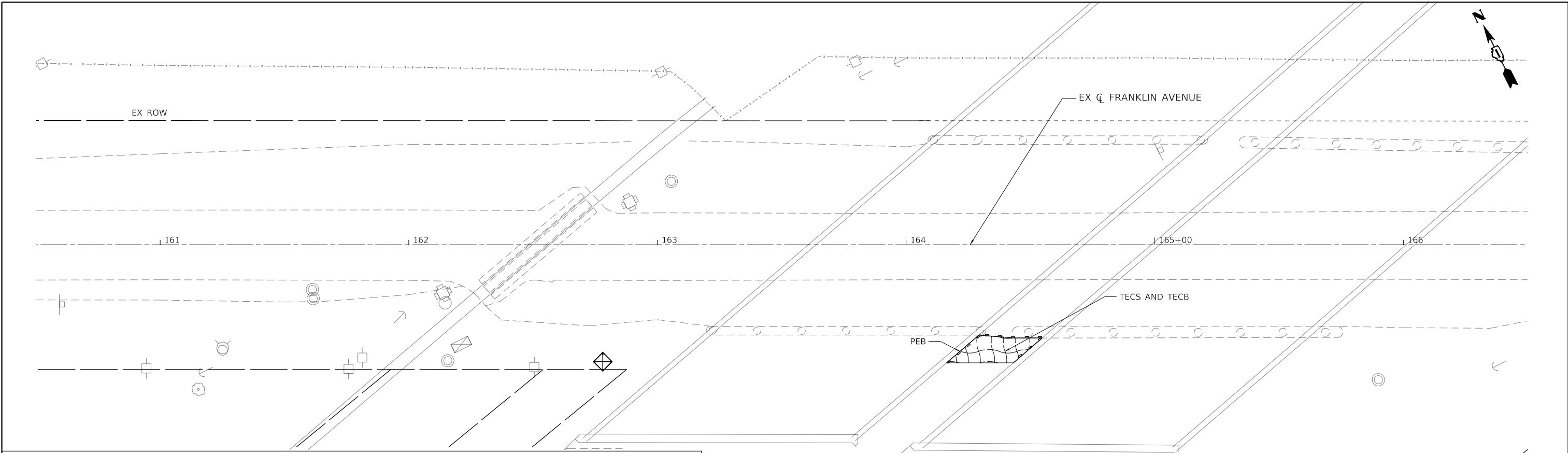
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 BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

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BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

EROSION AND SEDIMENT CONTROL
FRANKLIN AVENUE
 SCALE: 1"=20' SHEET OR 1"=5' SHEETS STA. 154+00.00 TO STA. 166+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	34
CONTRACT NO. 61G76				
		ILLINOIS	FED. AID PROJECT	



PROPOSED EROSION AND SEDIMENT CONTROL LEGEND

-  TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET (TECS and TECB)
-  TEMPORARY DITCH CHECK
-  DRAINAGE INLET PROTECTION
-  PERIMETER EROSION BARRIER (PEB)
-  PROPOSED DITCH

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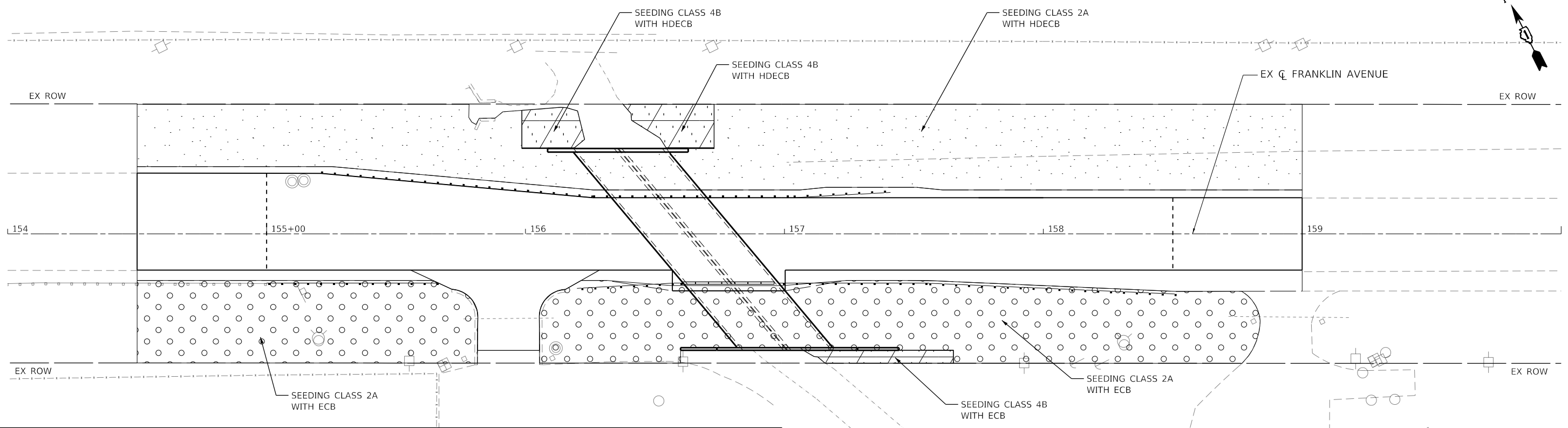
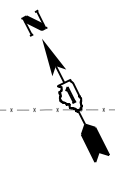
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

EROSION AND SEDIMENT CONTROL
FRANKLIN AVENUE

SCALE: 1"=20' SHEET OF SHEETS STA. 166+50.00 TO STA. 171+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	35
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				



PROPOSED LANDSCAPING LEGEND

	SEEDING CLASS 2A WITH EROSION CONTROL BLANKET		SEEDING CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
	SEEDING CLASS 4B WITH HEAVY DUTY EROSION CONTROL BLANKET		

SHEET	SEEDING, CLASS 2A	SEEDING, CLASS 4B	TOPSOIL FURNISH AND PLACE, 2"	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET
	ACRE	ACRE			
36	0.55	0.03	2797	1343	1454
37	0.01	0.00	31	31	0
TOTAL	0.56	0.03	2828	1374	1454

LANDSCAPING NOTES:

- SEEDING USAGE CLASS 2A (SALT TOLERANT ROADSIDE MIX) USED FOR NEW CONSTRUCTION OF LIMITED ACCESS ROUTES AND CLASS 4B USED AS NATIVE GRASS AT WETLAND BUFFERS.
- TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY THE FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE, NOR ON TEMPORARILY STEEP SLOPES.

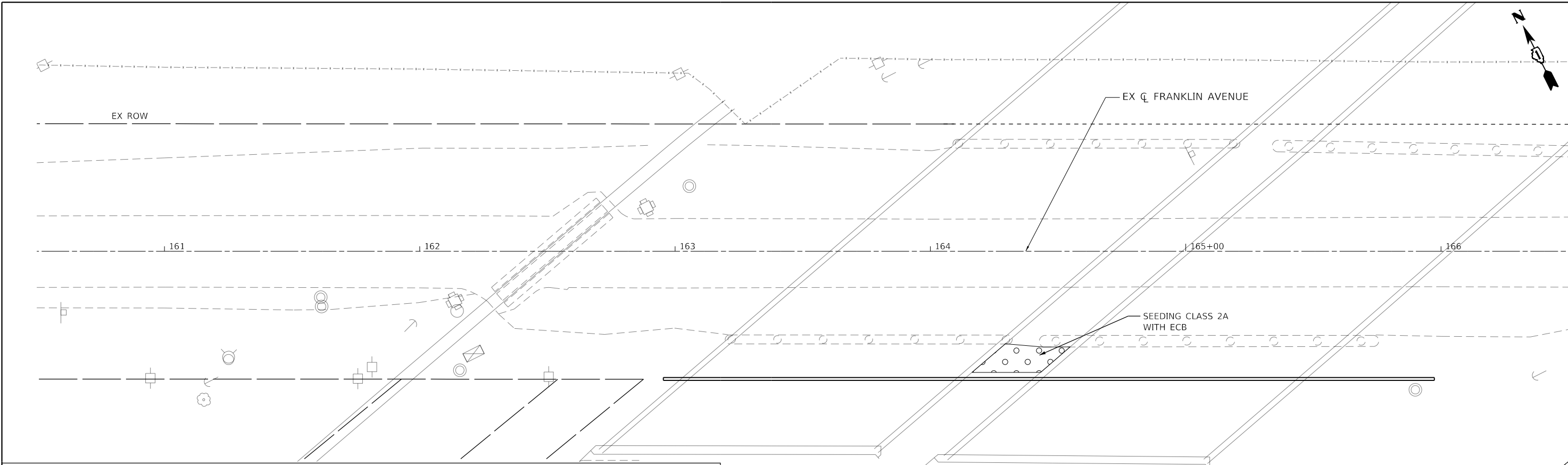
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 exp U.S. Services Inc.
 CHICAGO, IL
 BUILDINGS-EARTH & ENVIRONMENT-ENERGY
 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

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PLOT DATE = 10/28/2020		DATE - 10/28/2020	REVISED -

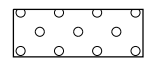
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

LANDSCAPING
FRANKLIN AVENUE
 SCALE: 1"=20' SHEET OF SHEETS STA. 154+00.00 TO STA. 166+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	36
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				



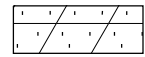
PROPOSED LANDSCAPING LEGEND



SEEDING CLASS 2A WITH
EROSION CONTROL BLANKET



SEEDING CLASS 2A WITH HEAVY
DUTY EROSION CONTROL BLANKET



SEEDING CLASS 4B WITH HEAVY
DUTY EROSION CONTROL BLANKET

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 Chicago, IL
 BUILDINGS-EARTH & ENVIRONMENT-ENERGY
 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

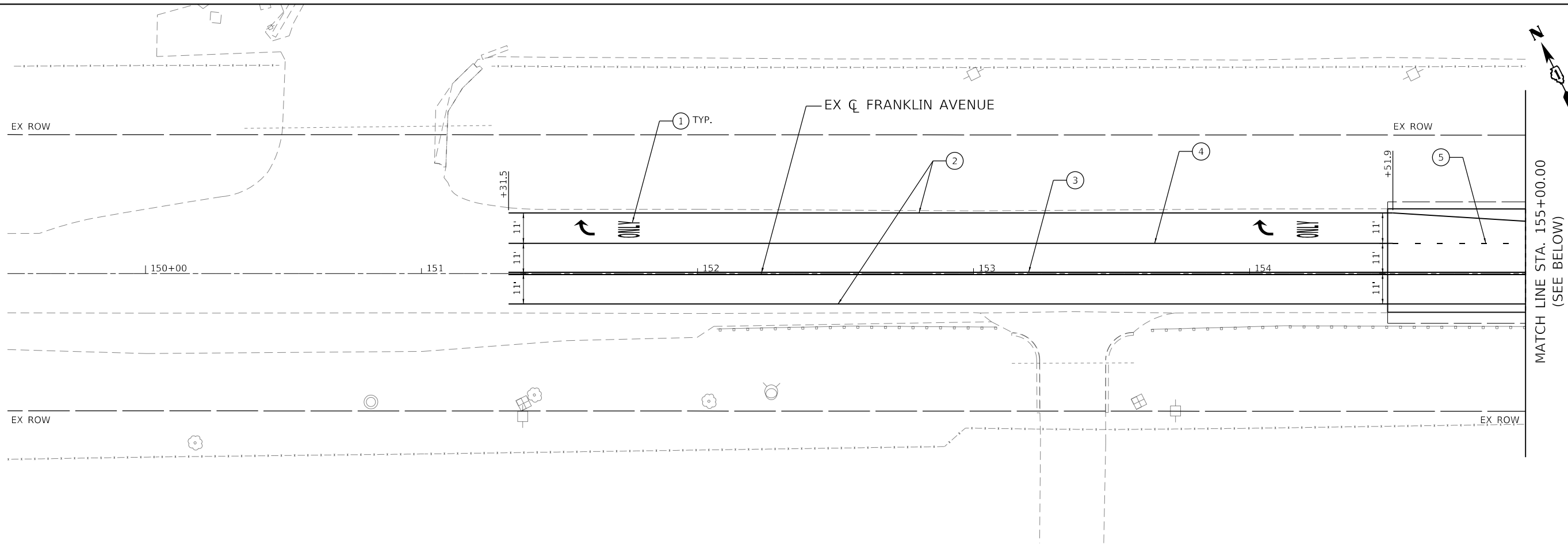
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		DRAWN - MW	REVISED -
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	PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

LANDSCAPING
FRANKLIN AVENUE

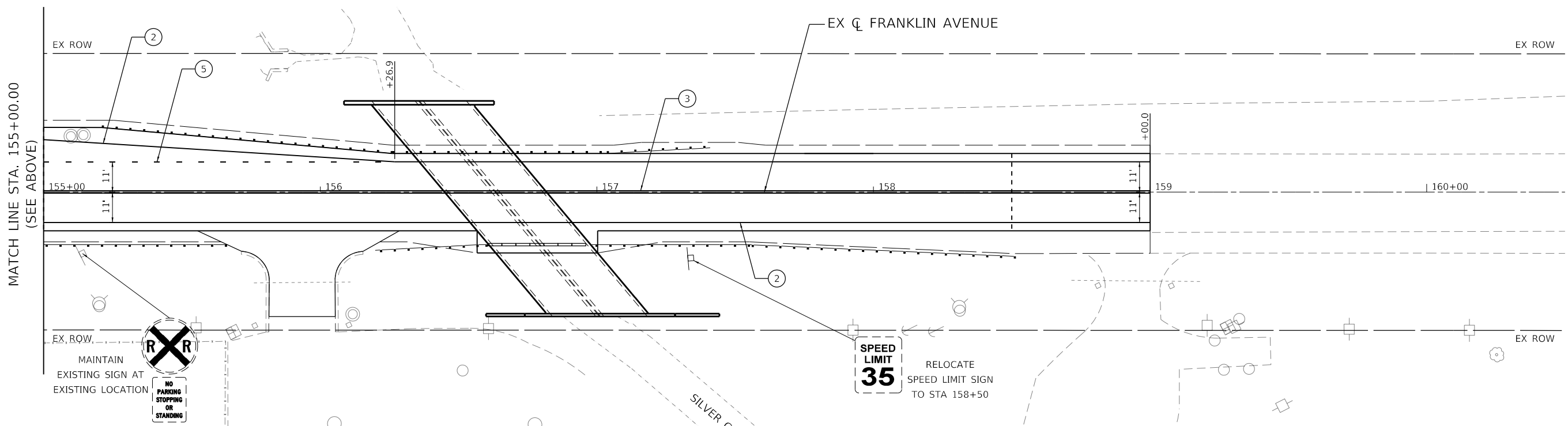
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	37
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				



PROPOSED LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" SOLID WHITE
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" DUAL YELLOW
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" SOLID WHITE
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" SKIP-DASH WHITE, (6' SKIP - 2' DASH)



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exp U.S. Services Inc. Chicago, IL	PLOT SCALE = 40.0000 ' / in.	CHECKED - PB	REVISED -
BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE = 10/28/2020	DATE - 10/28/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SILVER CREEK BOX CULVERT RECONSTRUCTION & PROPOSED
 SOLDIER PILE WALL CONSTRUCTION UNDER I-294 BRIDGE

PAVEMENT MARKING AND SIGNING PLANS
FRANKLIN AVENUE
 SCALE: 1"=20' SHEET OF SHEETS STA. 149+50.00 TO STA. 160+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	38
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				

Bench Mark: Cross cut on top of SSE bonnet bolt of first fire hydrant west of Silver Creek and west of entrance to #10801 Franklin Ave.
(third hydrant west of I-294 overpass) on SW side of Franklin Ave. Sta. 155+20, 41' Rt., Elev. 649.02.

Existing Structure: Existing Structure (S.N. 016-6812) to be removed. It is a 68' long double cell (10'x6') box culvert and is estimated to be built in the 1930's. It supports 28' wide existing pavement over Silver Creek.

No salvage.
Proposed Structure: Proposed Structure (SN 016-6813) is a 102 ft long 2-Cell Box Culvert (Each Cell: 12' X 7') and supports 75 ft wide pavement including a shared use path over Silver Creek. Wingwalls are parallel to roadway and consist of horizontal cantilever concrete section and soldier pile/sheet pile retaining wall. Culvert is at 40° skew to the roadway.

Traffic to be detoured to build the Culvert.

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.
DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications,
8th Edition

DESIGN STRESSES

PRECAST UNITS

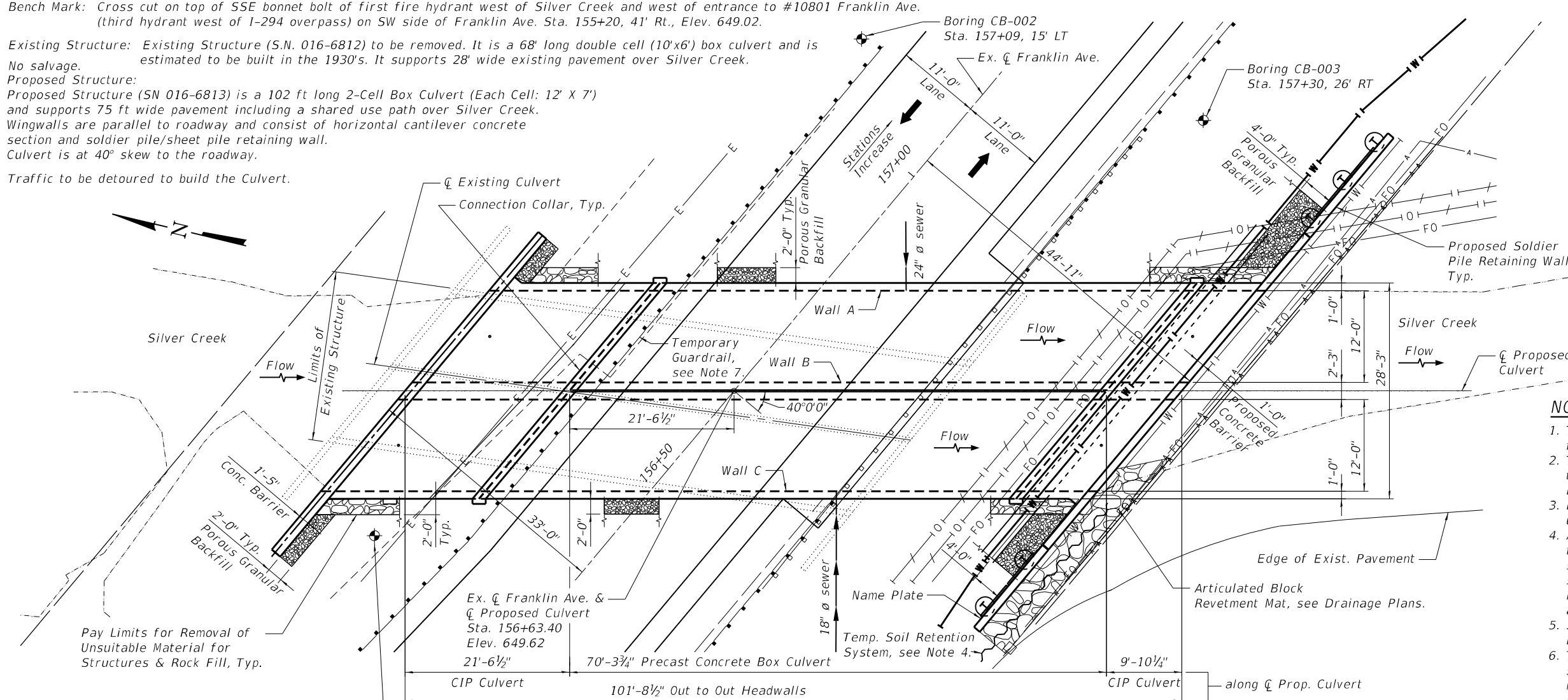
$f'_c = 5,000$ psi (Class PC)
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

FIELD UNITS

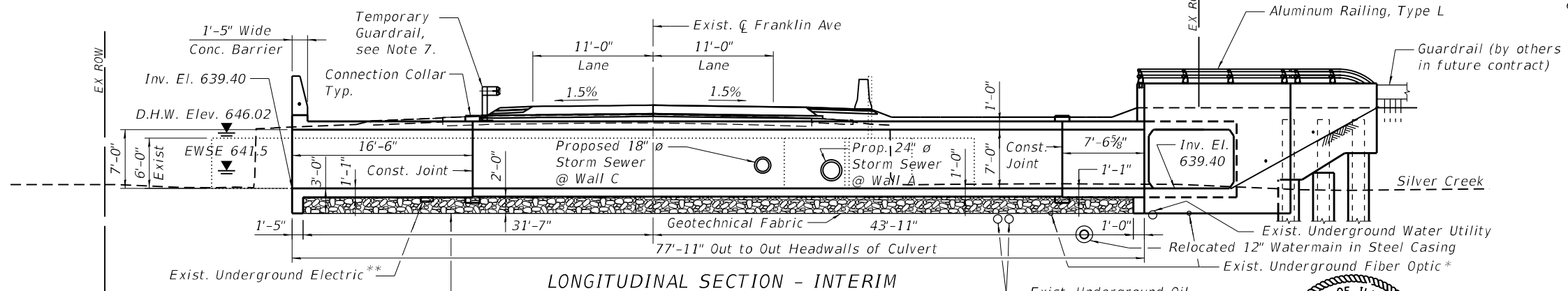
$f'_c = 4,000$ psi (Class BS - North Barrier above top construction joint)
 $f'_c = 3,500$ psi (Class S1 - All other elements)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50, Soldier Pile)

NOTES:

- The design fill height for this box culvert varies from 1'-4" to 2'-4".
- The precast box culvert sections shall conform to the requirements of ASTM C 1577. See Special Provisions.
- Factored Bearing Resistance of soil with Rock Fill under the culvert = 4,000 psi.
- A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- Stations and offsets are based on \bar{C} Existing Franklin Ave.
- 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.
- After removal of temporary guardrail, the anchor rod holes in top slab of culvert shall be filled in by epoxy grout (by others in future contract).

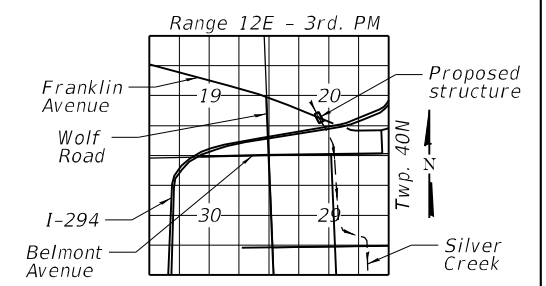


PLAN - INTERIM



LONGITUDINAL SECTION - INTERIM

(Section taken along \bar{C} Proposed Culvert looking East, all horizontal dimensions and cross slopes are at Rt. L's to \bar{C} Rdwy.)



LOCATION SKETCH

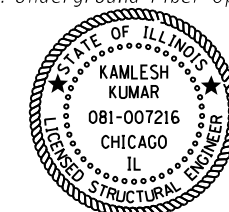
**GENERAL PLAN AND ELEVATION
FRANKLIN AVENUE BOX CULVERT
OVER SILVER CREEK**
F.A.U. RTE. 3533 (FRANKLIN AVE.)
COOK COUNTY
STATION 156+63.40
STRUCTURE NO. 016-6813

LEGEND:

- E — Exist. Underground Electric
- FO — Exist. Underground Fiber Optic
- O — Exist. Underground Oil (abandoned)
- A — Exist. Aerial Lines
- W — Exist. Underground Water Utility
- W — Relocated Underground Water Utility
- — Proposed Lighting Cable in Duct
- — Exist. Guardrail
- — Prop. Guardrail
- — Exist. Power Pole
- — Existing ROW
- — Soil Boring
- — Proposed Storm Sewer

* This utility may conflict with proposed construction and may require coordination with utility owner.

** Contractor to coordinate with Comed for protection of the duct during construction.



Expires 11/30/2022

Signature Kamlesh Kumar

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND LONGITUDINAL SECTION - INTERIM
SILVER CREEK BOX CULVERT**

SHEET S-01 OF S-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR		78	39
CONTRACT NO. 61G76				

ILLINOIS FED. AID PROJECT

exp U.S. Services Inc.
Chicago, IL
BUILDINGS-EARTH & ENVIRONMENT-ENERGY
INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

USER NAME	DESIGNED	CHECKED	REVISIONS
=	- YMC	-	-
PLOT SCALE =	DRAWN - FD	CHECKED - KK	REVISIONS -
PLOT DATE =			

Bench Mark: Cross cut on top of SSE bonnet bolt of first fire hydrant west of Silver Creek and west of entrance to #10801 Franklin Ave.
(third hydrant west of I-294 overpass) on SW side of Franklin Ave. Sta. 155+20, 41' Rt., Elev. 649.02.

Existing Structure: Existing Structure (S.N. 016-6812) to be removed. It is a 68' long double cell (10'x6') box culvert and is estimated to be built in the 1930's. It supports 28' wide existing pavement over Silver Creek.

No salvage.

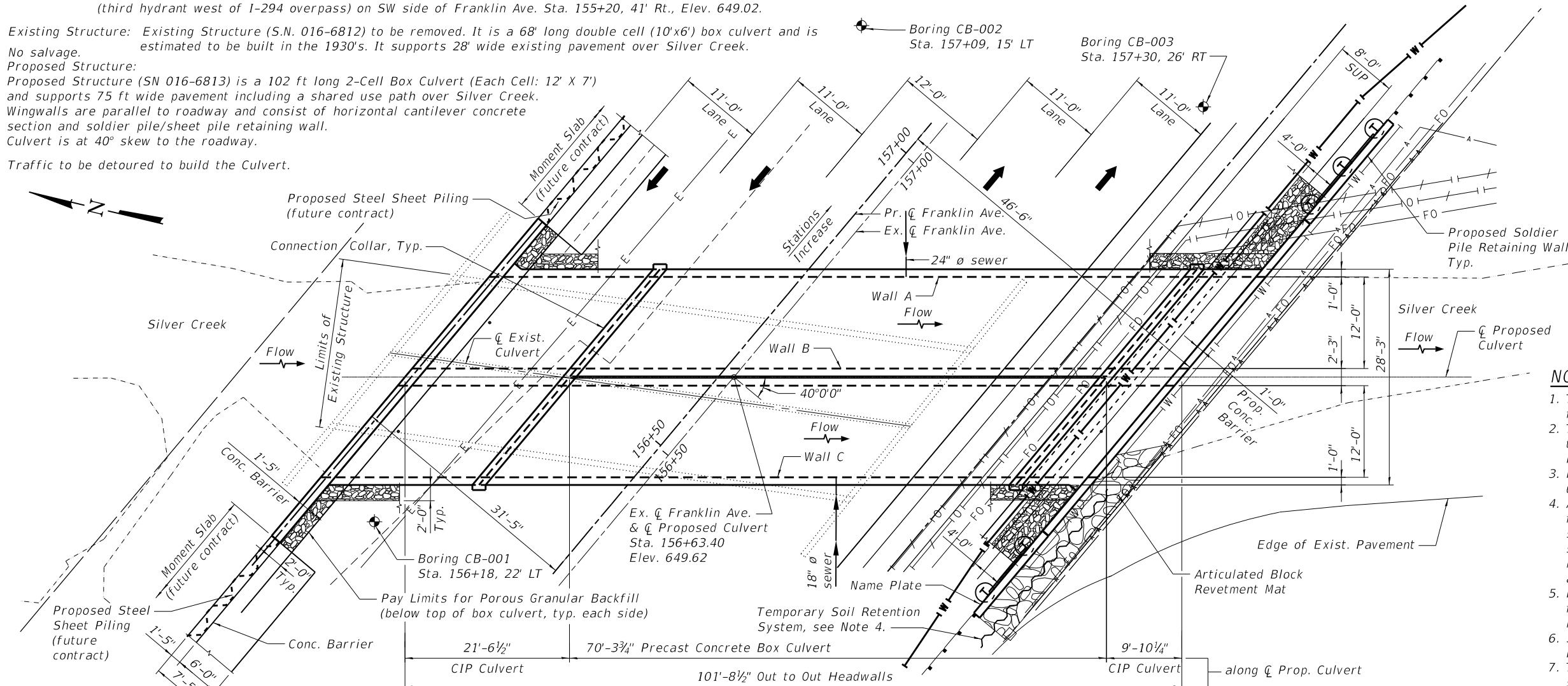
Proposed Structure:

Proposed Structure (SN 016-6813) is a 102 ft long 2-Cell Box Culvert (Each Cell: 12' X 7') and supports 75 ft wide pavement including a shared use path over Silver Creek.

Wingwalls are parallel to roadway and consist of horizontal cantilever concrete section and soldier pile/sheet pile retaining wall.

Culvert is at 40° skew to the roadway.

Traffic to be detoured to build the Culvert.



LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

PRECAST UNITS

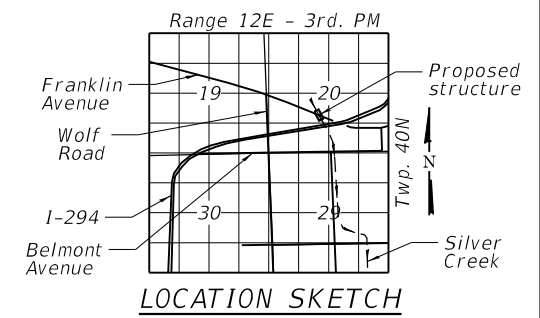
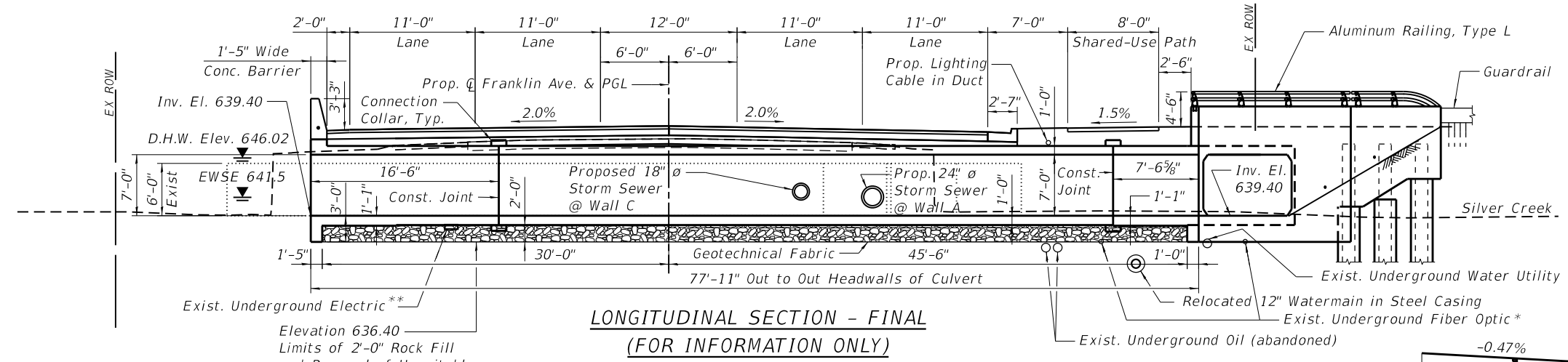
$f'_c = 5,000$ psi (Class PC)
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

FIELD UNITS

$f'_c = 4,000$ psi (Class BS - North Barrier above top construction joint)
 $f'_c = 3,500$ psi (Class SI - All other elements)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50, Soldier Pile)

NOTES:

- The design fill height for this box culvert varies from 1'-4" to 2'-4".
- The precast box culvert sections shall conform to the requirements of ASTM C 1577. See Special Provisions.
- Factored Bearing Resistance of soil with Rock Fill under the culvert = 4,000 psi.
- A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- Roadway width and lane configurations shown are for final geometry of Franklin Avenue. For interim roadway configuration, see Roadway Plans.
- Stations and offsets are based on \bar{C} Existing Franklin Ave.
- 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.



LEGEND:

- E ——— Exist. Underground Electric
- FO ——— Exist. Underground Fiber Optic
- / — / — Exist. Underground Oil (abandoned)
- A — A — Exist. Aerial Lines
- W — — Exist. Underground Water Utility
- W — — Relocated Underground Water Utility
- — — Proposed Lighting Cable in Duct
- — — Prop. Guardrail
- — — Exist. Power Pole
- — — Existing ROW
- — — Soil Boring
- — — Proposed Storm Sewer

* This utility may conflict with proposed construction and may require coordination with utility owner.
** Contractor to coordinate with Comed for protection of the duct during construction.

PROFILE GRADE
(along \bar{C} Franklin Ave.)

GENERAL PLAN AND ELEVATION
(FOR INFORMATION ONLY)
FRANKLIN AVENUE BOX CULVERT
OVER SILVER CREEK
F.A.U. RTE. 3533 (FRANKLIN AVE.)
COOK COUNTY
STATION 156+63.40
STRUCTURE NO. 016-6813

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 exp U.S. Services Inc. CHICAGO BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	USER NAME =	DESIGNED - YMC	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DRAWN - FD	REVISED -
		CHECKED - KK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND LONGITUDINAL SECTION - FINAL
SILVER CREEK BOX CULVERT

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR		78	40
CONTRACT NO. 61G76				
		ILLINOIS	FED. AID PROJECT	

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Backfill	Cu Yd	173
Geotechnical Fabric for Ground Stabilization	Sq Yd	438
* Removal of Existing Structures	Each	1
Structure Excavation	Cu Yd	552
Removal and Disposal of Unsuitable Material for Structures	Cu Yd	251
Concrete Structures	Cu Yd	11.3
Concrete Superstructure	Cu Yd	12.1
Protective Coat	Sq Yd	61
Stud Shear Connectors	Each	32
Reinforcement Bars, Epoxy Coated	Pound	41,490
Aluminum Railing, Type L	Foot	83
Name Plates	Each	1
Temporary Soil Retention System	Sq Ft	131
Furnishing Soldier Piles (W Section)	Foot	130
Drilling and Setting Soldier Piles (In Soil)	Cu Ft	501
Untreated Timber Lagging	Sq Ft	166
Concrete Box Culverts	Cu Yd	146.9
Concrete Sealer	Sq Ft	607
Geocomposite Wall Drain	Sq Yd	19
Membrane Waterproofing System for Buried Structures	Sq Yd	349
Precast Concrete Box Culverts 12' X 7' (Special)	Foot	141
Rock Fill	Cu Yd	251

* Removal of Existing Structures includes removal of existing culvert, wingwalls, headwalls and guardrail connected to the structure.

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- 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 1,000 psi.
- The clear cover for the reinforcement bars to the surface of concrete shall be 2" unless otherwise shown.
- Protective Coat shall be applied to top and traffic faces of concrete barrier on both ends of the culvert.
- Concrete Sealer shall be applied to the exposed front face of the wingwalls and Soldier Pile Retaining Walls.
- Drain holes shall be provided on exterior culvert walls for each precast box segment. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification. See Special Provisions. Cost included with Precast Box Culverts 12'x7" (Special).
- Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
- Precast concrete box culverts, cast-in-place box culverts, and soldier pile walls shall be backfilled with Porous Granular Backfill below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of north wingwalls, and 4 ft from the back face of south horizontal cantilever wingwalls and soldier pile walls.
- The box culvert end section shall be built in the field and a precast option is not allowed.

INDEX OF SHEETS:

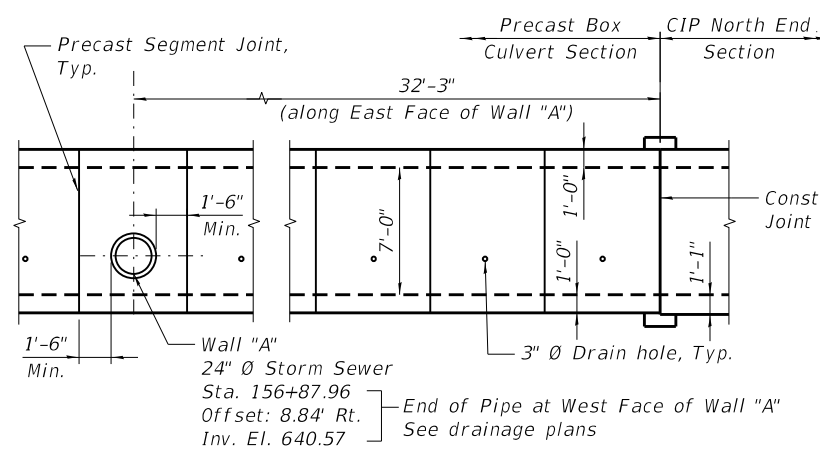
- S-1 General Plan and Longitudinal Section - Interim
- S-2 General Plan and Longitudinal Section - Final
- S-3 General data and Construction Details
- S-4 South Culvert End Section Details I
- S-5 South Culvert End Section Details II
- S-6 South Culvert End Section Details III
- S-7 North Culvert End Section Details I
- S-8 North Culvert End Section Details II
- S-9 North Culvert End Section Details III
- S-10 South Retaining Walls General Plan and Elevation
- S-11 South Retaining Walls Elevations
- S-12 Miscellaneous Details
- S-13 Parapet Railing Details
- S-14 Soil Boring Logs 1
- S-15 Soil Boring Logs 2

WATERWAY INFORMATION

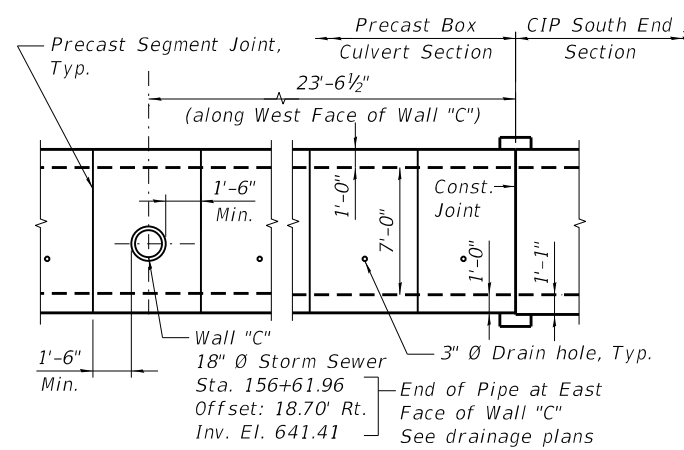
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Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10-Yr	10	355	133.2	144.5	645.39	0.05	0.03	645.44	645.42
Design	30	496	133.2	158.9	645.97	0.13	0.05	646.10	646.02
Base	100	655	133.2	164.9	646.22	0.32	0.11	647.10	646.89
Overtopping									
Max. Calc.	500	875	133.2	168	647.83	0.41	0.29	648.24	648.12

SILVER CREEK
BUILT 20__ BY
VILLAGE OF FRANKLIN PARK
SEC. 17-00083-01-BR
STATION 156+63.40
S.N. 016-6813 LOADING HL-93

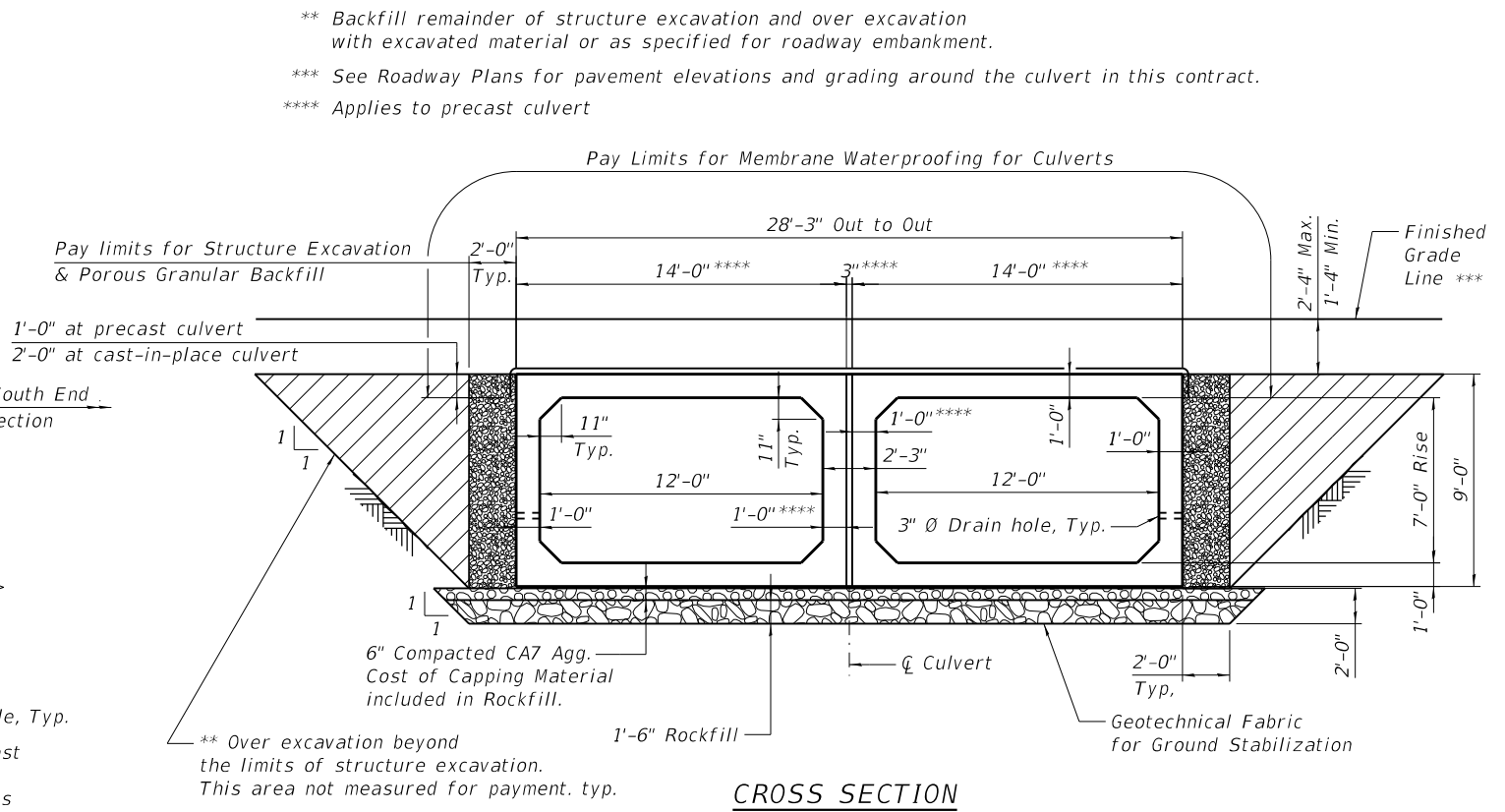
NAME PLATE
See Std. 515001



OPENING IN PRECAST CELL AT WALL "A"
Looking West



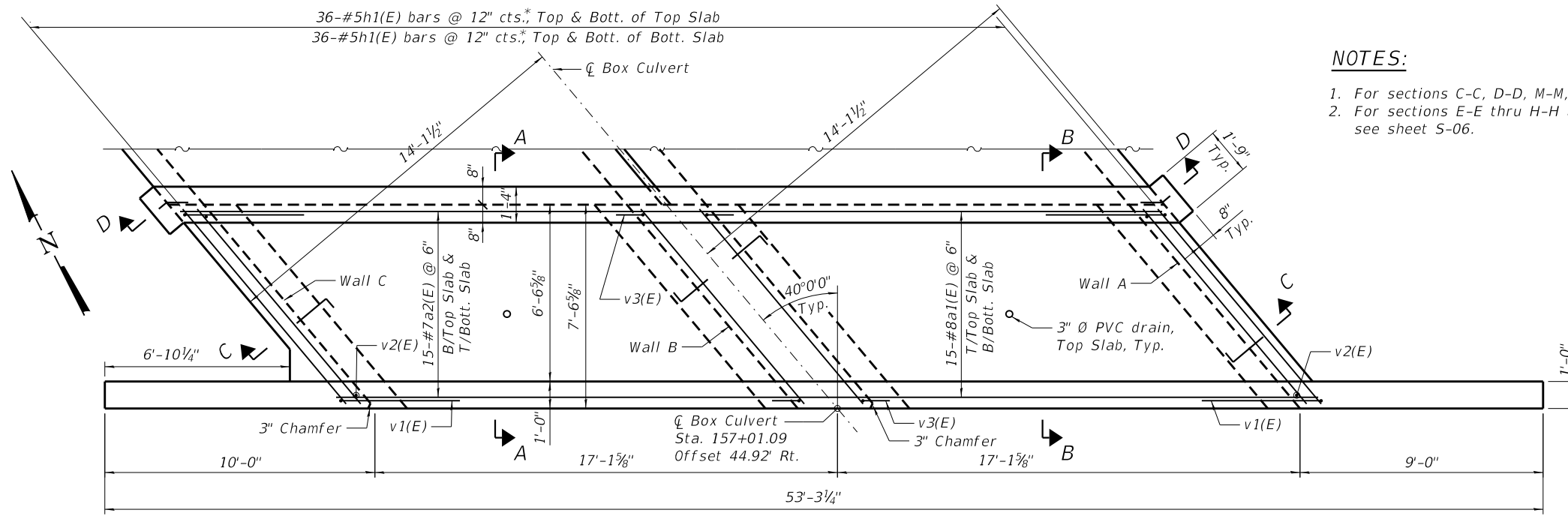
OPENING IN PRECAST CELL AT WALL "C"
Looking East



CROSS SECTION

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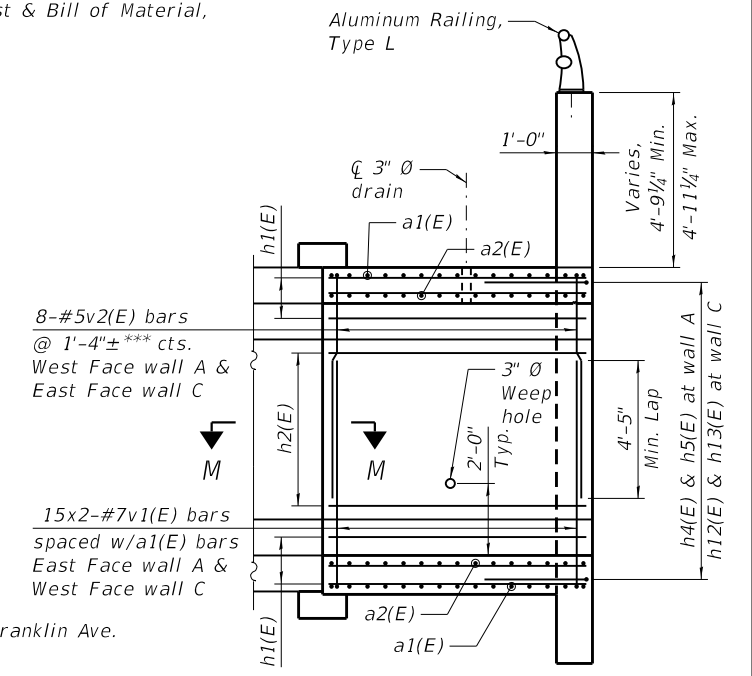
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PLAN - BOX CULVERT END SECTION (SOUTH)

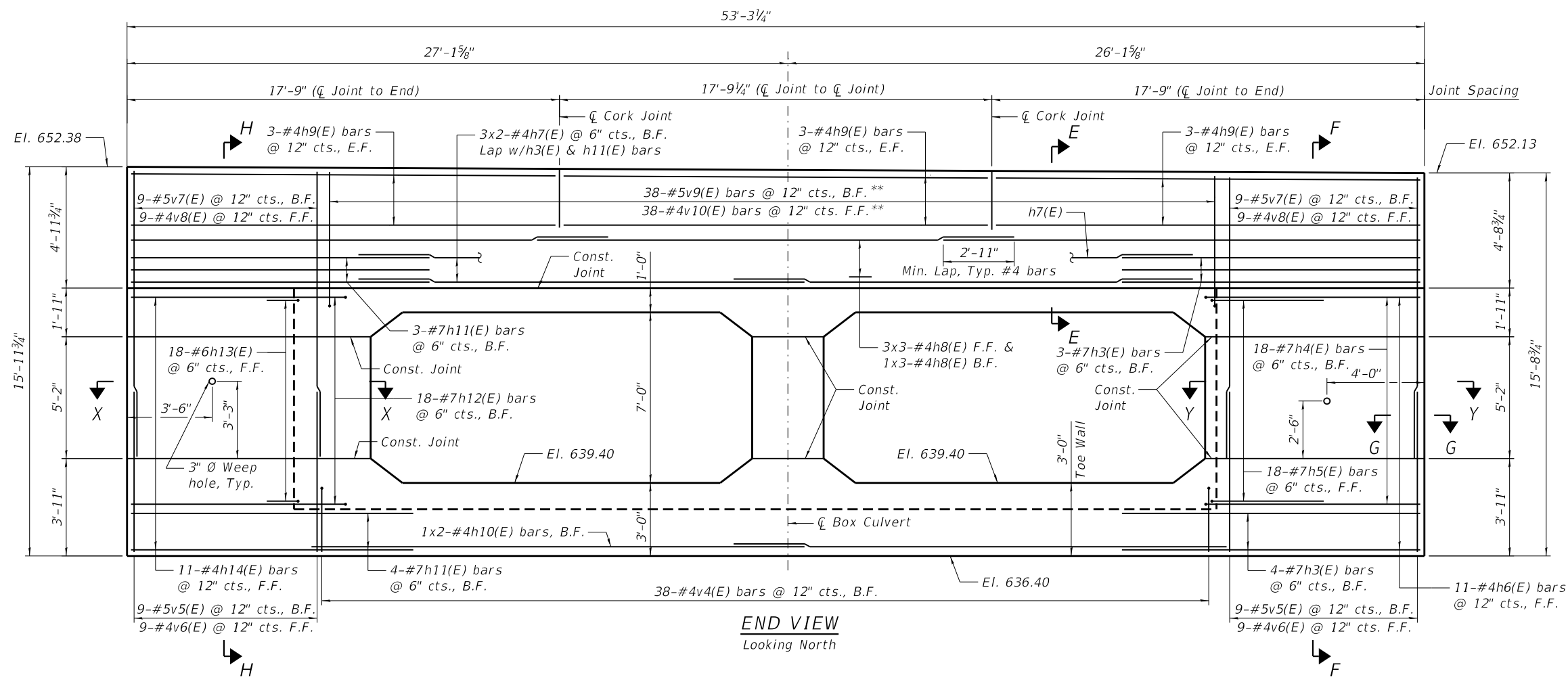
NOTES:
 1. For sections C-C, D-D, M-M, X-X & Y-Y, see sheet S-05.
 2. For sections E-E thru H-H and Bar List & Bill of Material, see sheet S-06.

* Spacing along the line parallel to ϕ of Franklin Ave.
 ** Adjust bar spacing to miss cork joints.
 *** Spacing along the line parallel to walls A or C.

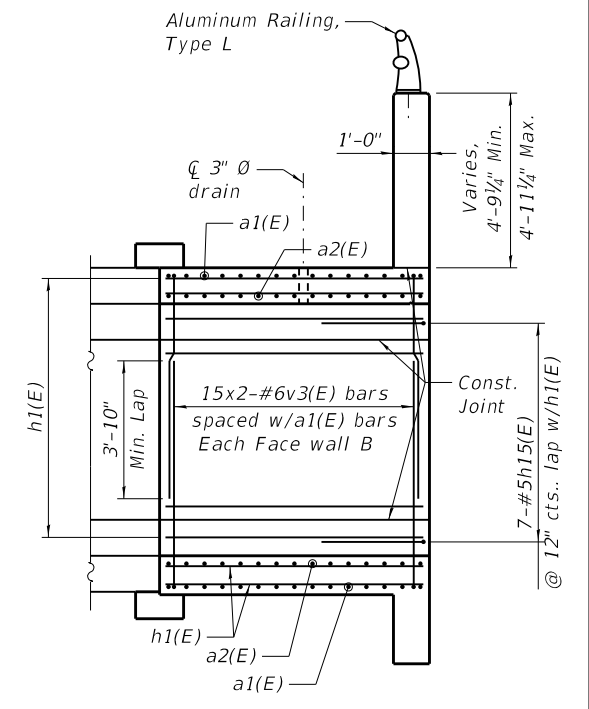


SECTION B-B

(Wall A shown, wall C similar)



END VIEW
 Looking North



SECTION A-A

(Wall B)

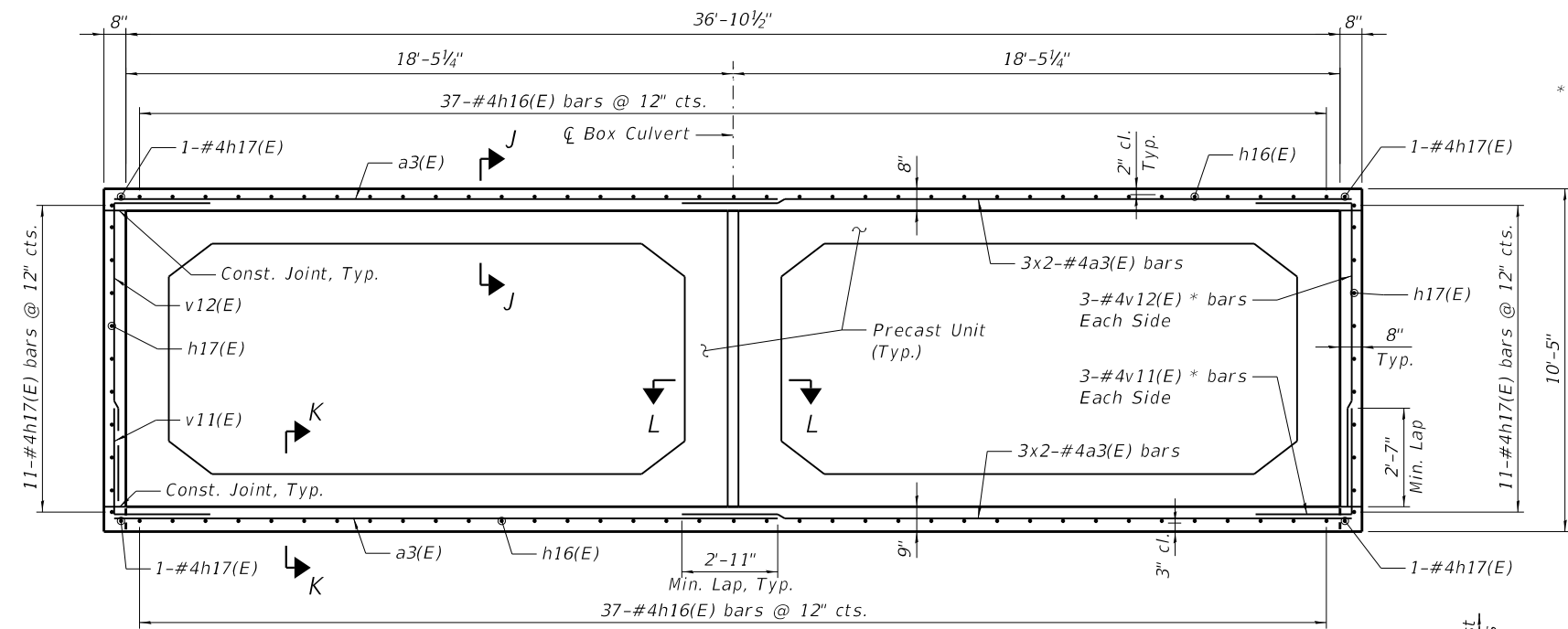
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOUTH CULVERT END SECTION DETAILS I
 SILVER CREEK BOX CULVERT

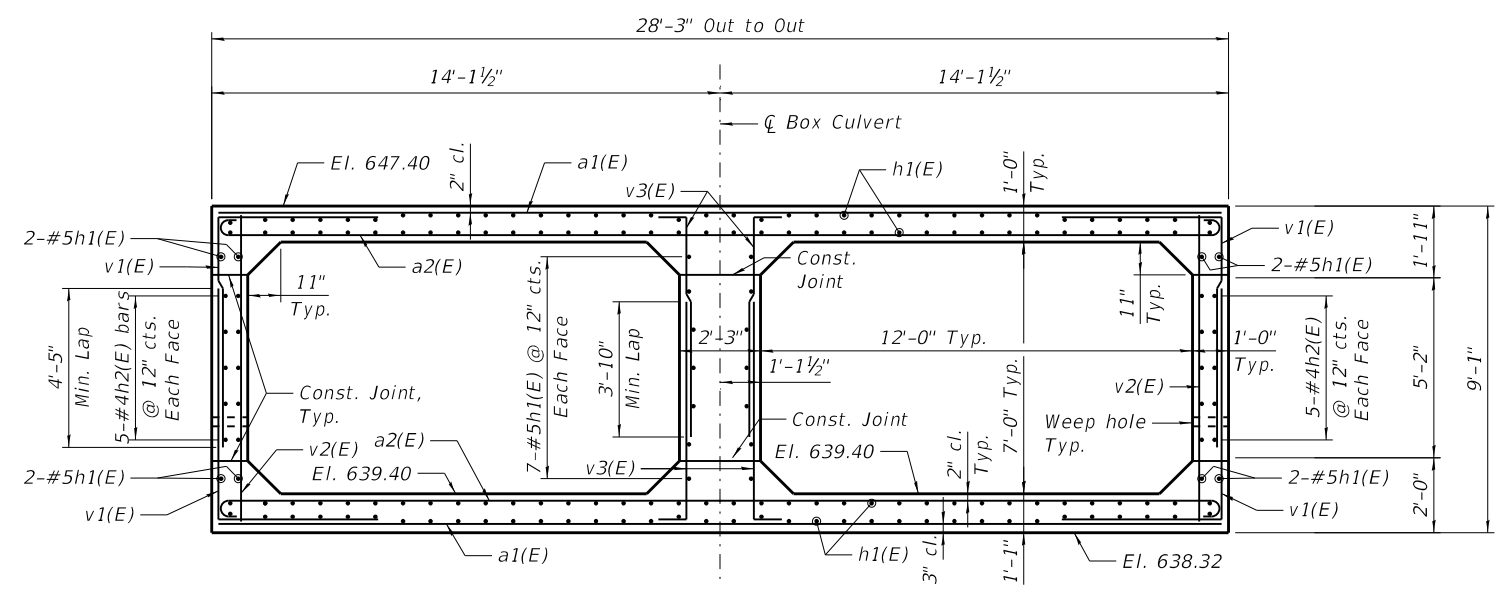
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PLOT DATE =	CHECKED - KK	REVISED -

F.A.U. RT.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
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CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				

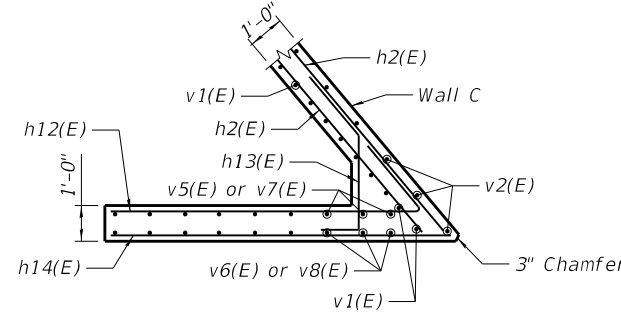
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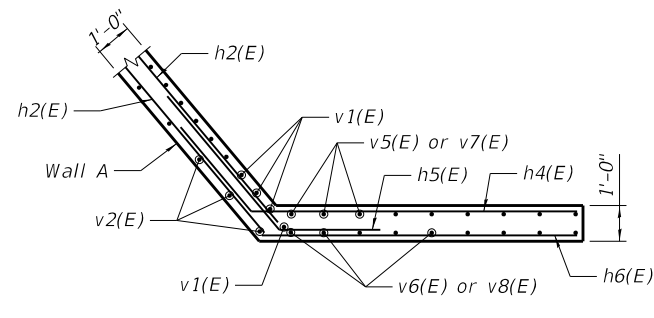
SECTION D-D
 (along centerline of Connecting Collar)



SECTION C-C
 (at Right angle to centerline of Box Culvert)

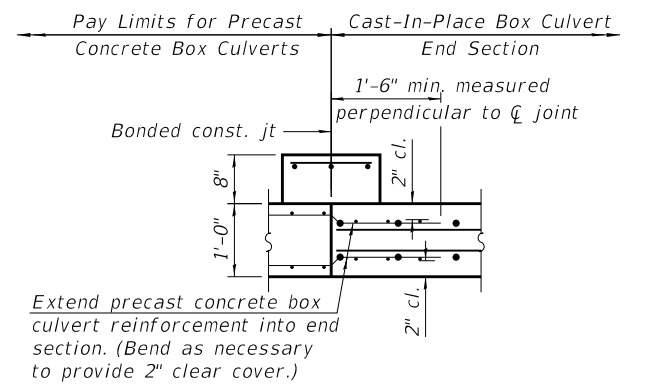


SECTION X-X

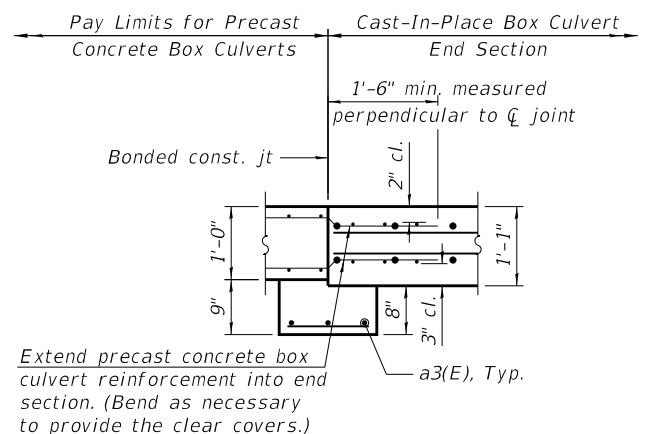


SECTION Y-Y

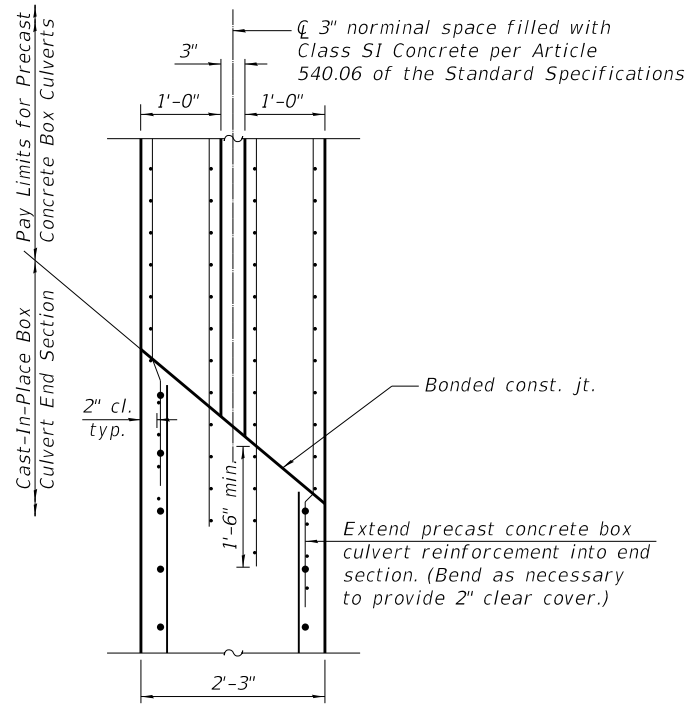
* If required, bend horizontal leg in field to fit.



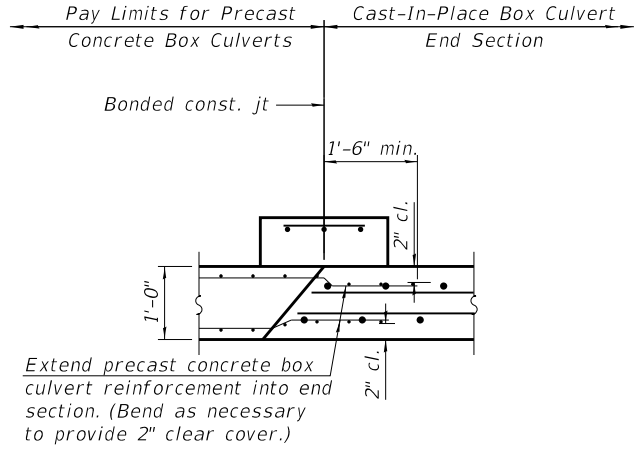
SECTION J-J
 (Top slab)



SECTION K-K
 (Bottom slab)



SECTION L-L
 (Interior wall)



SECTION M-M
 (Exterior wall)

NOTES:

1. For location of sections C-C, D-D, M-M, X-X & Y-Y, see sheet S-04.
2. For Bar List & Bill of Material, see sheet S-06.

exp U.S. Services Inc.
 CHICAGO
 BUILDINGS-EARTH & ENVIRONMENT-ENERGY
 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

USER NAME =	DESIGNED - YMC	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN - FD	REVISED -
	CHECKED - KK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

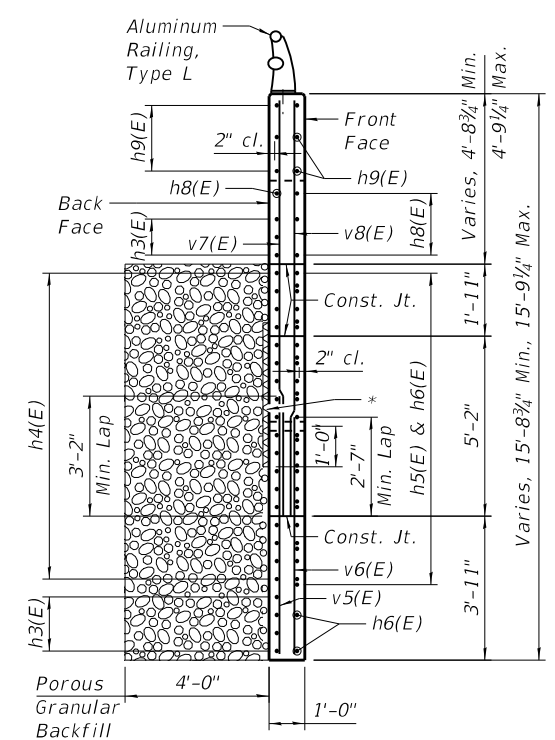
SOUTH CULVERT END SECTION DETAILS II
SILVER CREEK BOX CULVERT

SHEET S-05 OF S-26 SHEETS

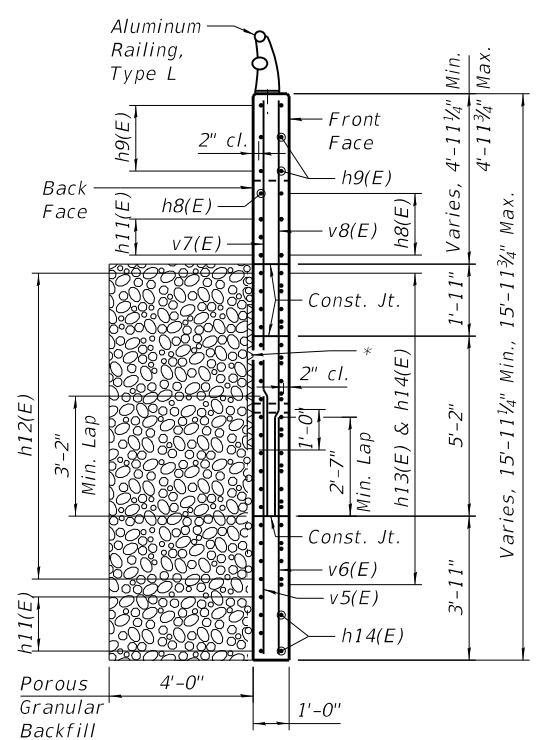
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3533	17-00083-01-BR		78	43
CONTRACT NO. 61G76				
ILLINOIS		FED. AID PROJECT		

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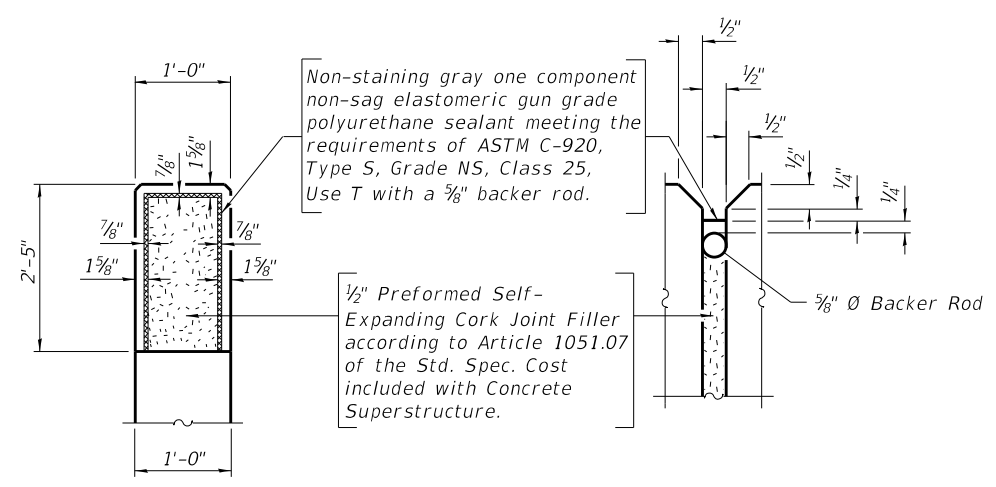
* 2' wide x 4' tall Geocomposite Wall Drain at the back of Weep hole



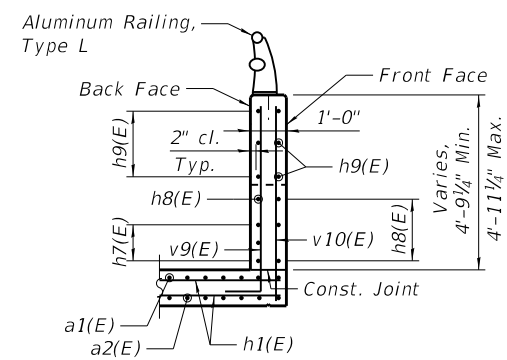
SECTION F-F



SECTION H-H



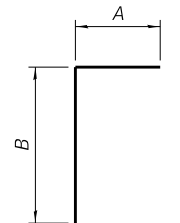
CORK JOINT DETAILS



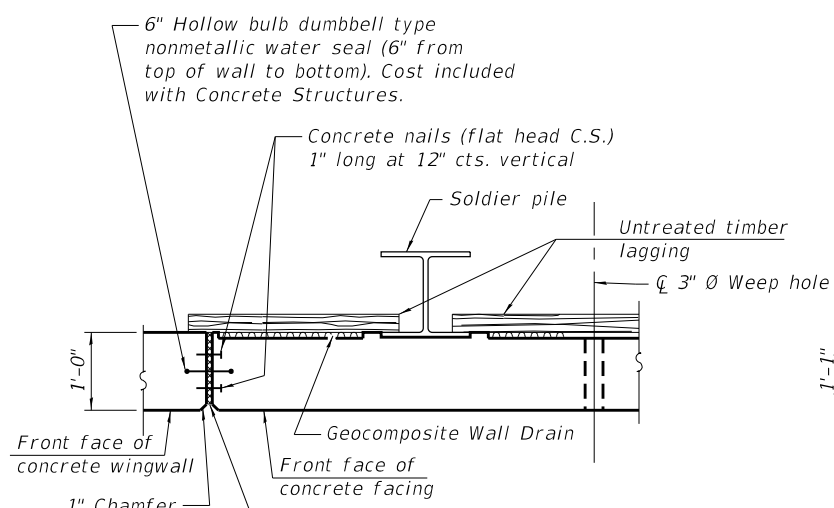
SECTION E-E
(THROUGH SOUTH HEADWALL)

DIMENSIONS

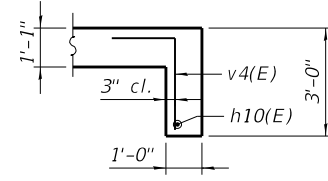
Bar	A	B
v1(E)	4'-6"	6'-8"
v3(E)	1'-0"	6'-4"
v4(E)	1'-9"	2'-6"
v9(E)	1'-0"	5'-5"
v11(E)	4'-0"	3'-6"
v12(E)	4'-0"	9'-5"



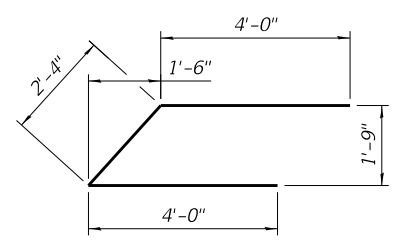
BARS v1(E), v3(E), v4(E), v9(E), v11(E) & v12(E)



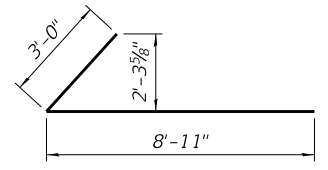
SECTION G-G



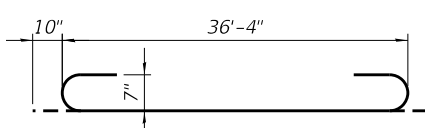
SECTION THROUGH SOUTH TOEWALL



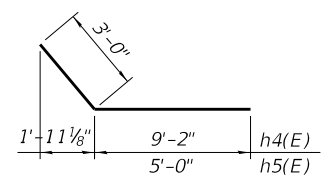
BAR h15(E)



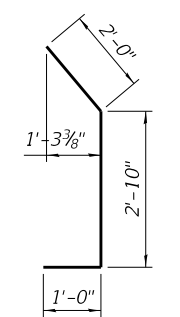
BAR h12(E)



BAR a2(E)



BARS h4(E) & h5(E)



BAR h13(E)

SOUTH END SECTION
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	30	#8	36'-4"	U
a2(E)	30	#7	38'-0"	U
a3(E)	12	#4	20'-7"	U
h1(E)	166	#5	9'-4"	U
h2(E)	20	#4	9'-4"	U
h3(E)	7	#7	12'-3"	U
h4(E)	18	#7	12'-2"	U
h5(E)	18	#7	8'-0"	U
h6(E)	11	#4	8'-9"	U
h7(E)	6	#4	19'-0"	U
h8(E)	12	#4	19'-8"	U
h9(E)	18	#4	17'-5"	U
h10(E)	2	#4	20'-6"	U
h11(E)	7	#7	11'-7"	U
h12(E)	18	#7	11'-11"	U
h13(E)	18	#6	5'-10"	U
h14(E)	11	#4	9'-5"	U
h15(E)	7	#5	10'-4"	U
h16(E)	74	#4	1'-0"	U
h17(E)	26	#4	1'-5"	U
v1(E)	60	#7	11'-2"	U
v2(E)	16	#5	8'-8"	U
v3(E)	60	#6	7'-4"	U
v4(E)	38	#4	4'-3"	U
v5(E)	18	#5	7'-3"	U
v6(E)	18	#4	6'-8"	U
v7(E)	18	#5	11'-7"	U
v8(E)	18	#4	11'-7"	U
v9(E)	38	#5	6'-5"	U
v10(E)	38	#4	5'-6"	U
v11(E)	6	#4	7'-6"	U
v12(E)	6	#4	13'-5"	U
Item	Unit	Total		
Protective Coat	Sq Yd	23		
Reinforcement Bars, Epoxy Coated	Pound	12,910		
Concrete Box Culverts	Cu Yd	56.1		
Concrete Sealer	Sq Ft	237		
Geocomposite Wall Drain	Sq Yd	4		

NOTE:
For location of sections E-E thru H-H, see sheet S-04.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH CULVERT END SECTION DETAILS III
SILVER CREEK BOX CULVERT

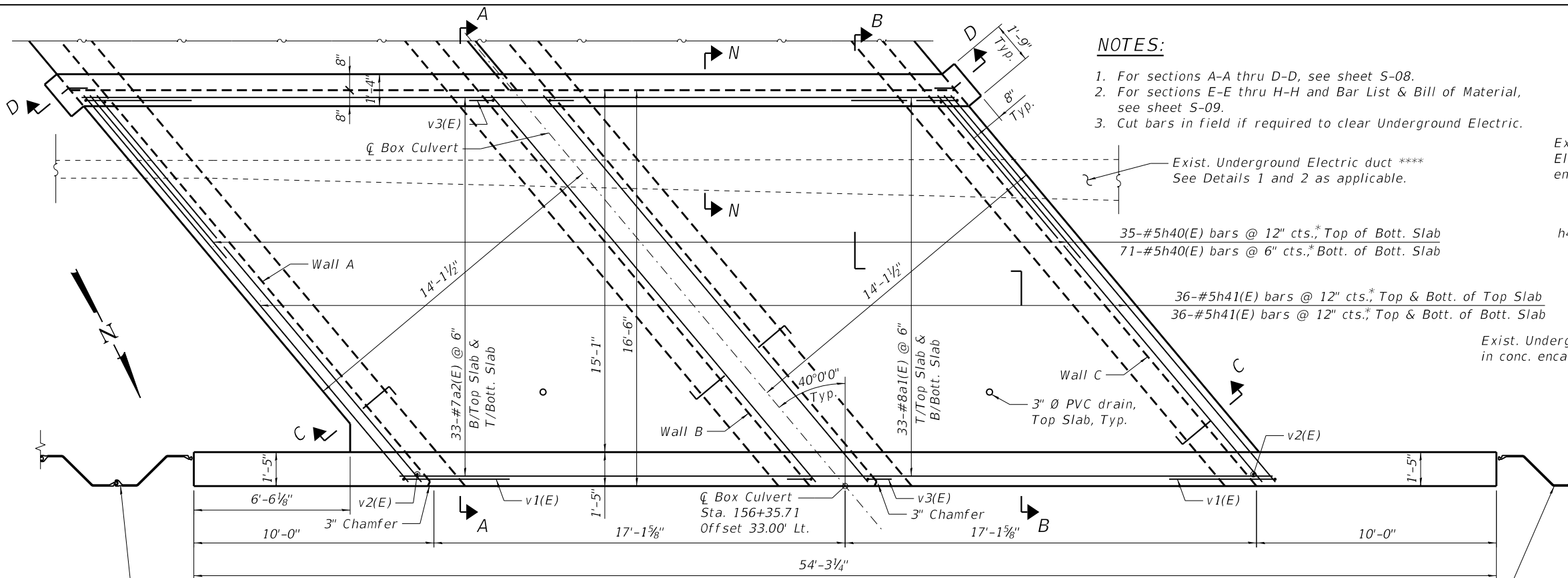
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR		78	44

CONTRACT NO. 61G76

SHEET S-06 OF S-26 SHEETS

ILLINOIS FED. AID PROJECT

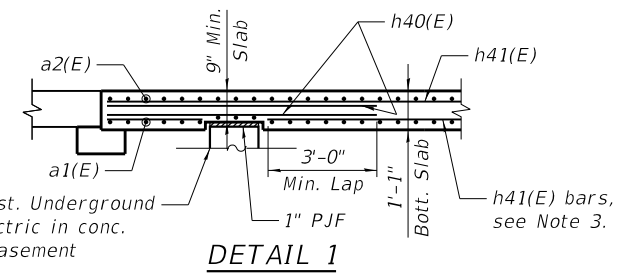
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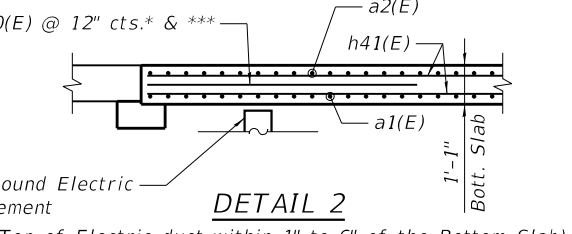
PLAN - BOX CULVERT END SECTION (NORTH)

- NOTES:**
1. For sections A-A thru D-D, see sheet S-08.
 2. For sections E-E thru H-H and Bar List & Bill of Material, see sheet S-09.
 3. Cut bars in field if required to clear Underground Electric.

Exist. Underground Electric duct ****
 See Details 1 and 2 as applicable.



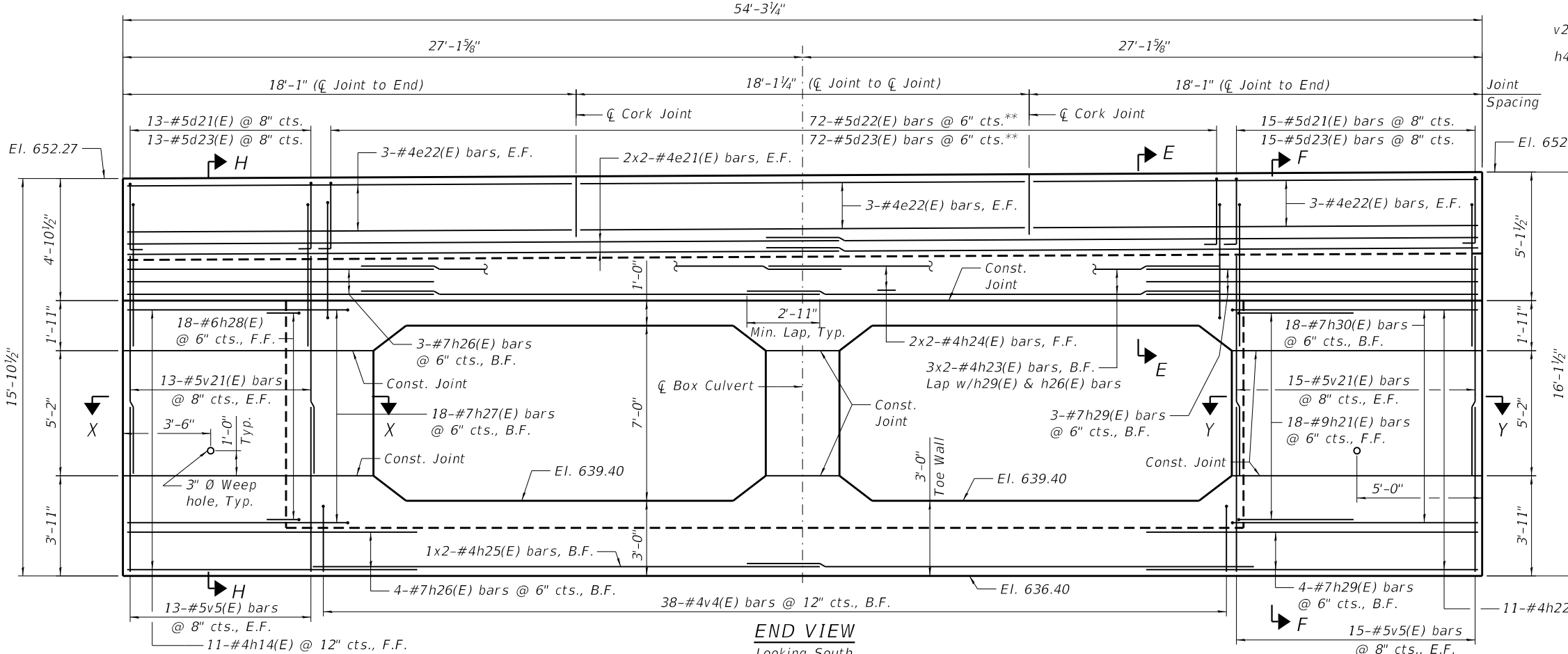
DETAIL 1
 (Top of Electric duct within 1" of the Bottom Slab)



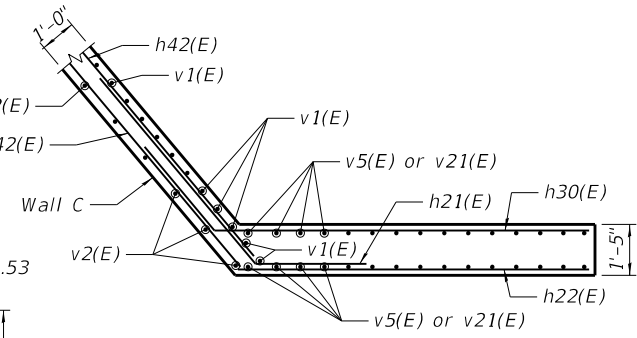
DETAIL 2
 (Top of Electric duct within 1" to 6" of the Bottom Slab)

SECTION N-N

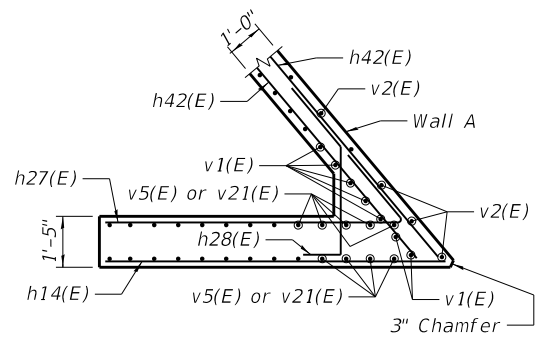
- * Spacing is along the line parallel to \bar{c} of Franklin Ave.
- ** Adjust bar spacing to miss cork joints.
- *** Space h40(E) rebars horizontally between h41(E) rebars.
- **** Details 1 & 2 are not required if top of electric duct is more than 6" below the bottom slab of Culvert.



END VIEW
 Looking South



SECTION Y-Y



SECTION X-X

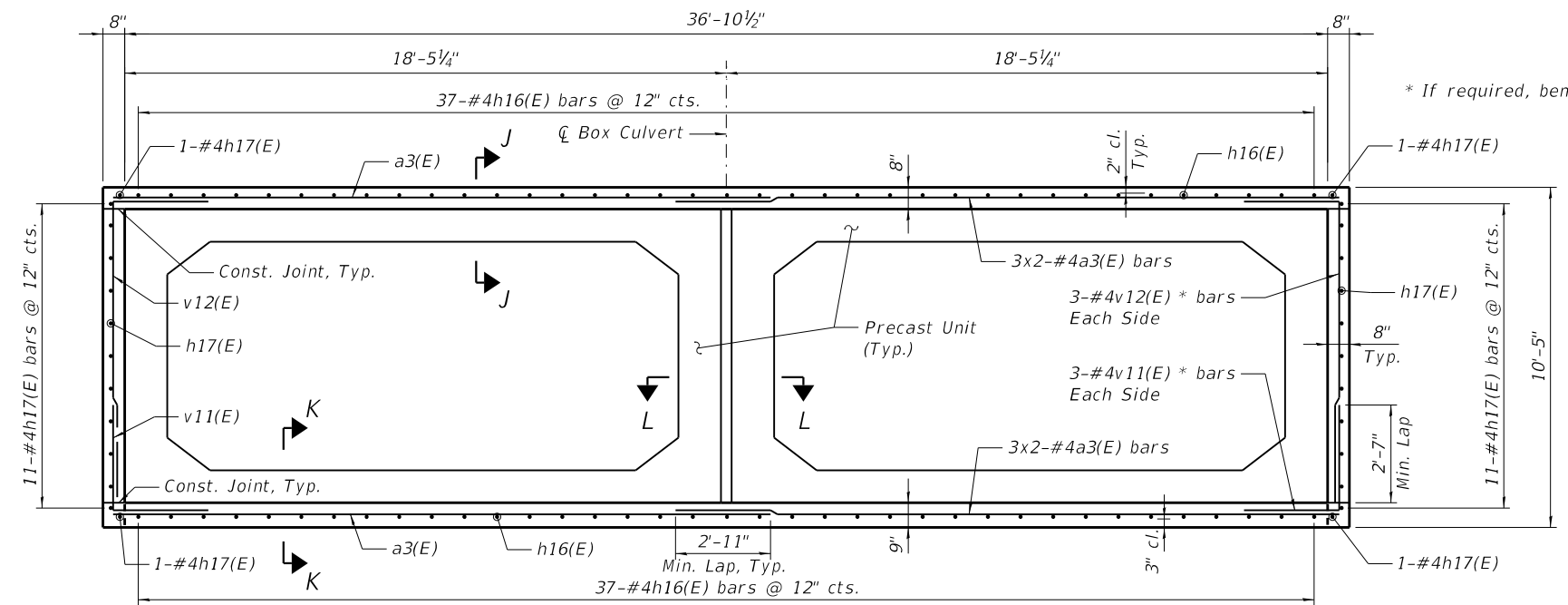
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH CULVERT END SECTION DETAILS I
SILVER CREEK BOX CULVERT

USER NAME =	DESIGNED - YMC	REVISED -
PLOT SCALE =	CHECKED - FD	REVISED -
PLOT DATE =	DRAWN - FD	REVISED -
	CHECKED - KK	REVISED -

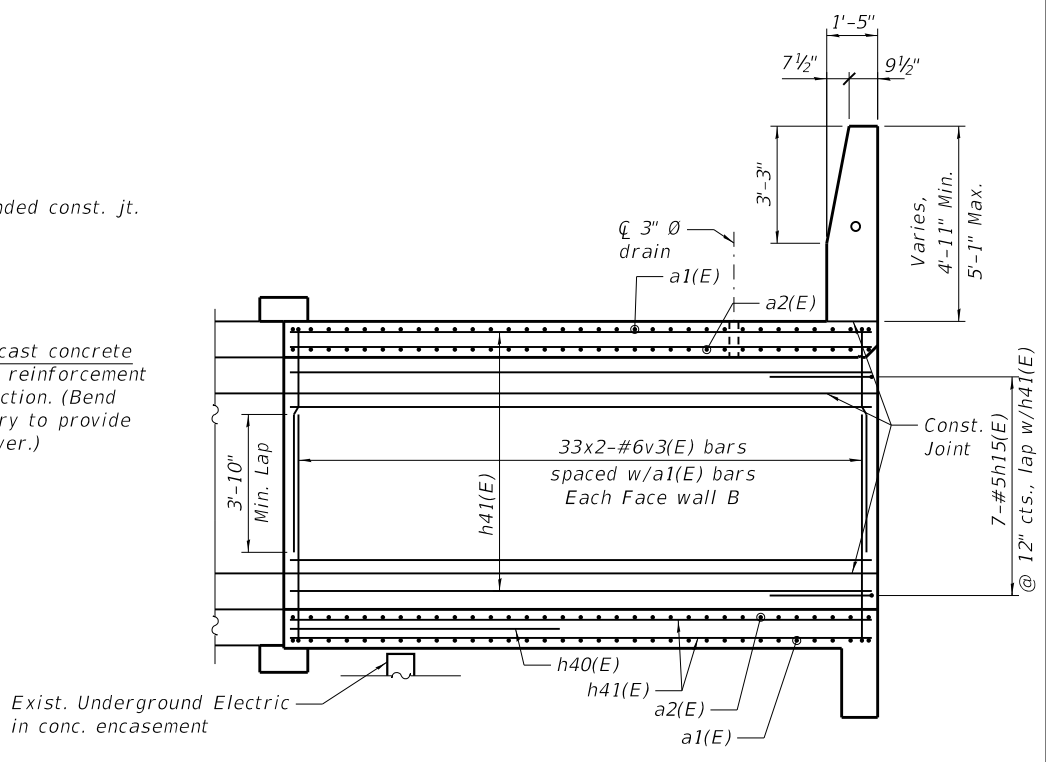
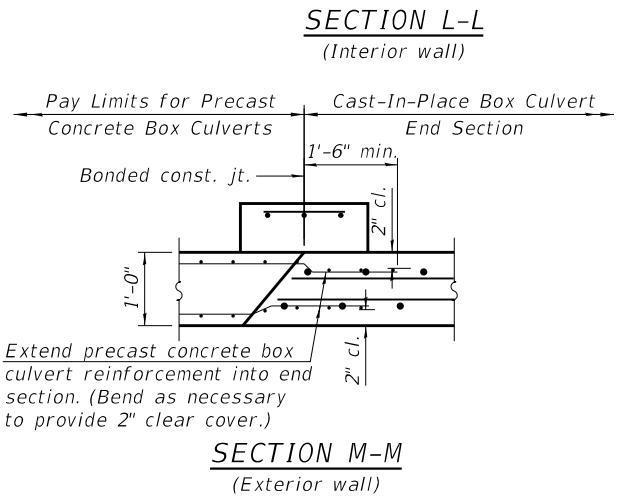
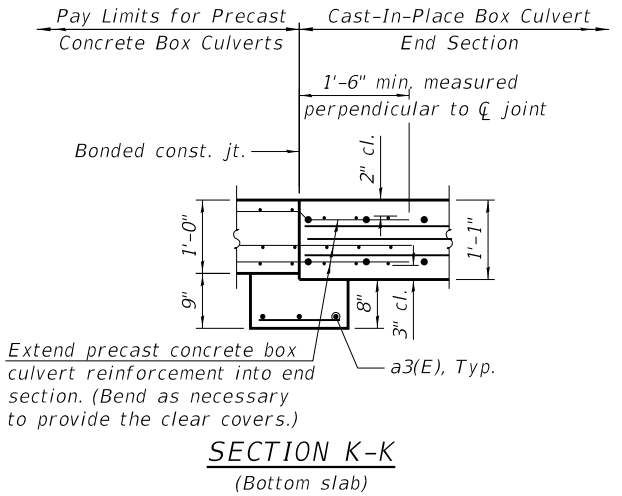
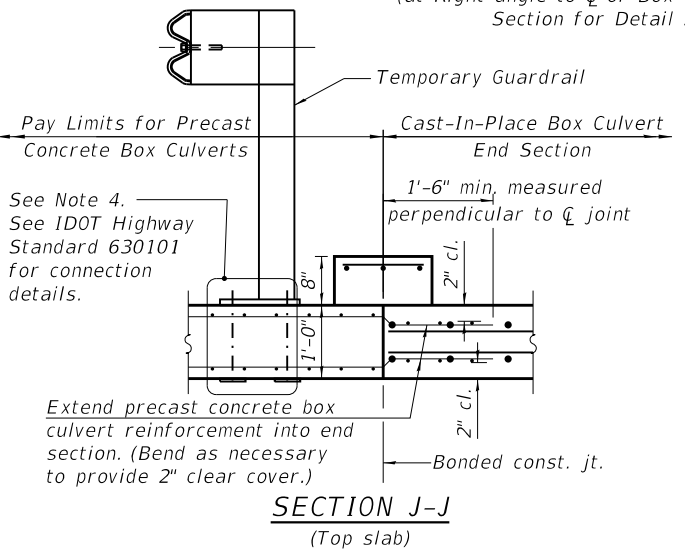
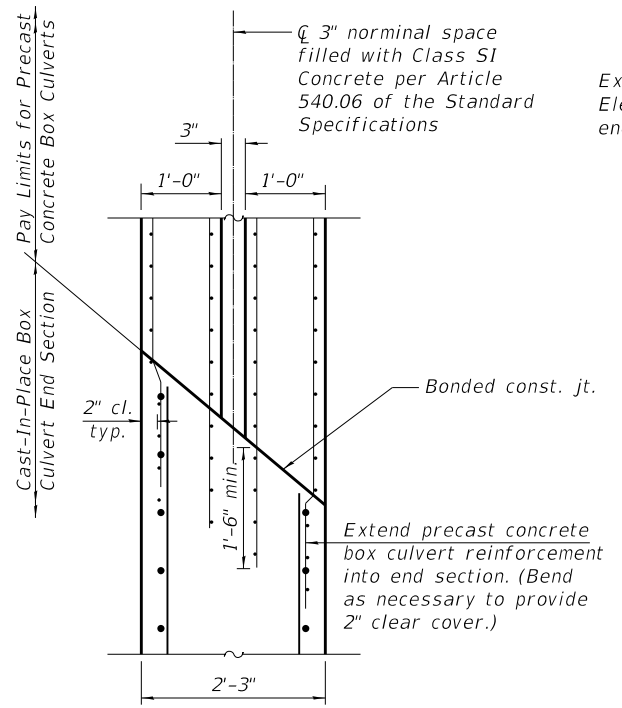
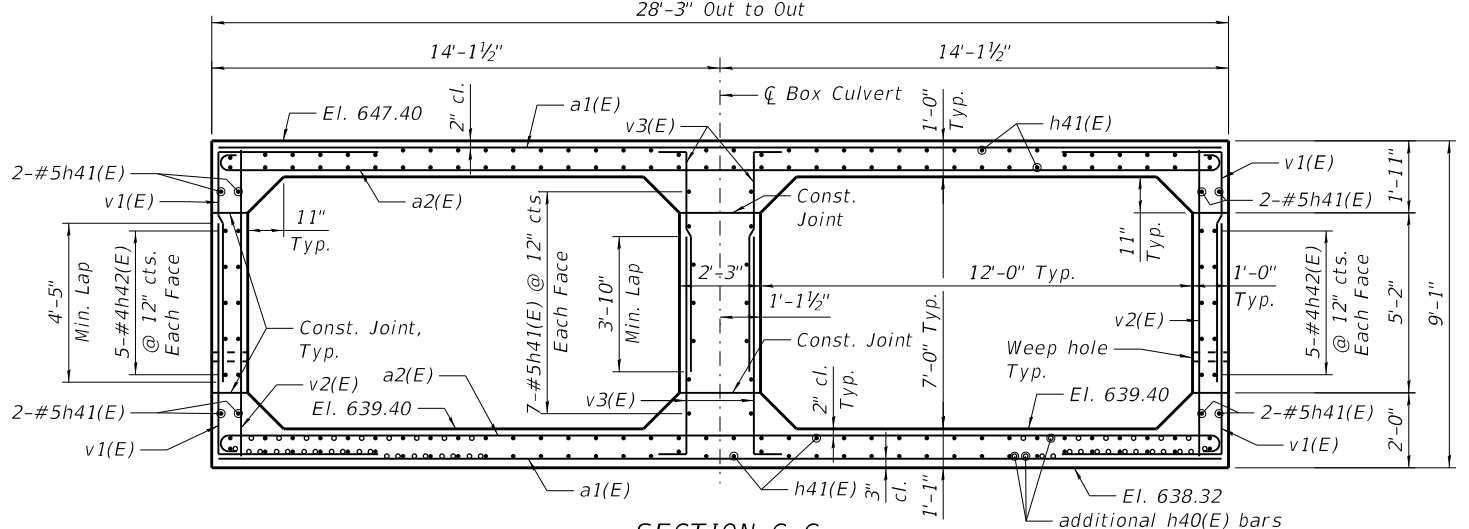
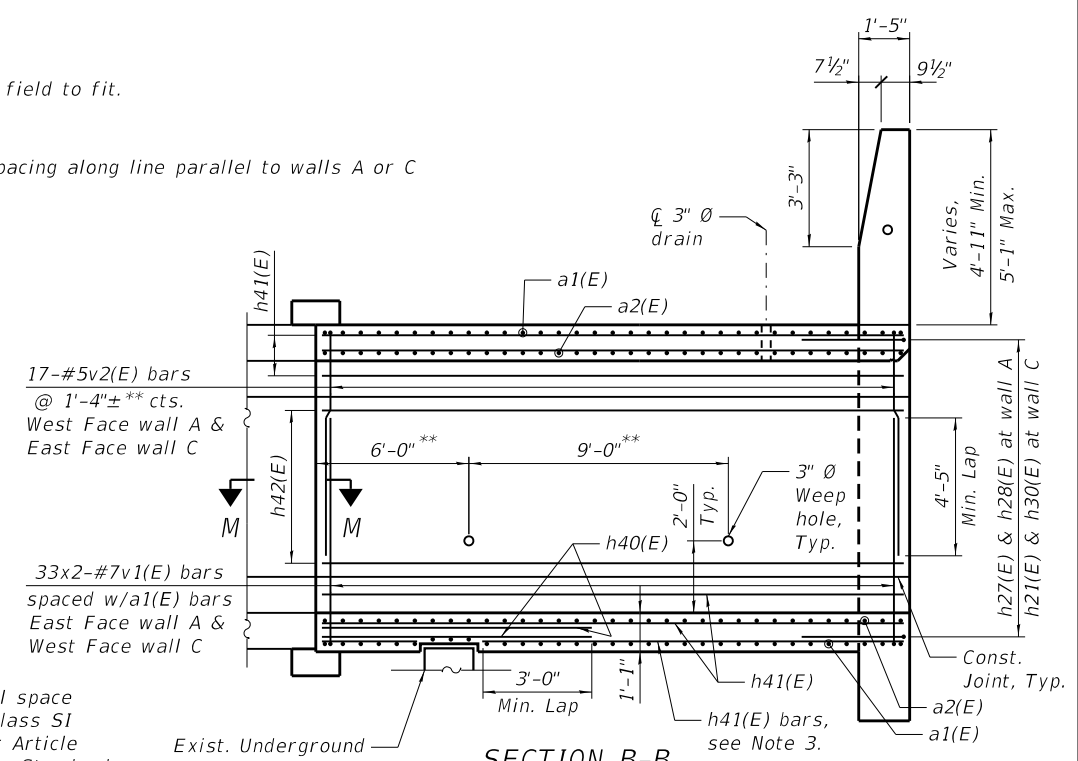
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CONTRACT NO. 61G76				
		ILLINOIS	FED. AID PROJECT	

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 10/28/2020 2:12:59 PM



* If required, bend horizontal leg in field to fit.

** Spacing along line parallel to walls A or C



NOTES:

1. For location of sections A-A thru D-D, see sheet S-07.
2. For Bar List & Bill of Material, see sheet S-09.
3. Cut bars in field if required to clear Underground Electric.
4. Space rebars in precast culvert to miss anchor rods for temporary guardrail.

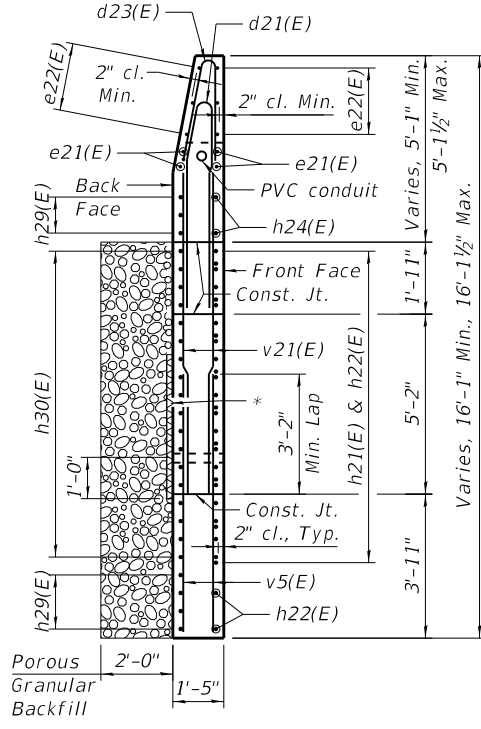
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH CULVERT END SECTION DETAILS II
 SILVER CREEK BOX CULVERT

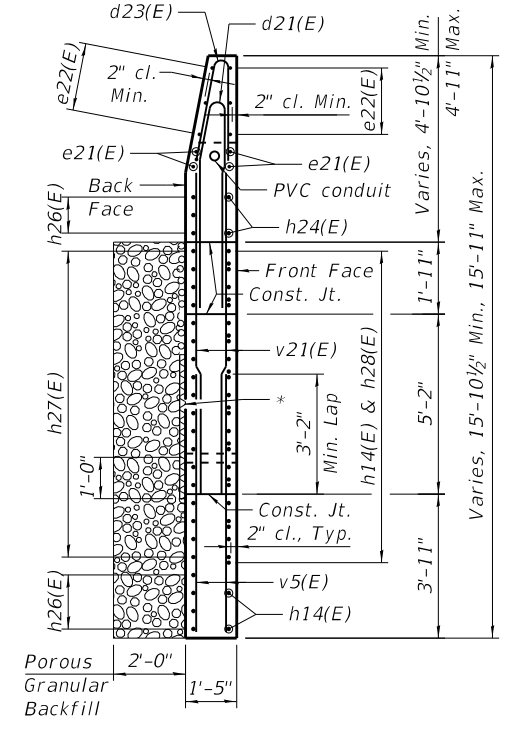
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CONTRACT NO. 61G76				
		ILLINOIS	FED. AID PROJECT	

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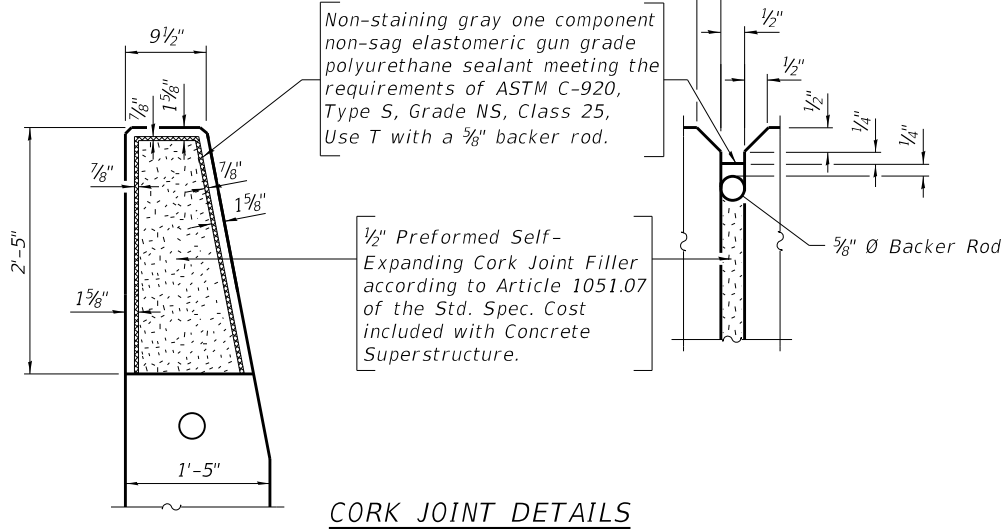
* 2' wide x 4' tall Geocomposite Wall Drain at the back of Weep hole



SECTION F-F

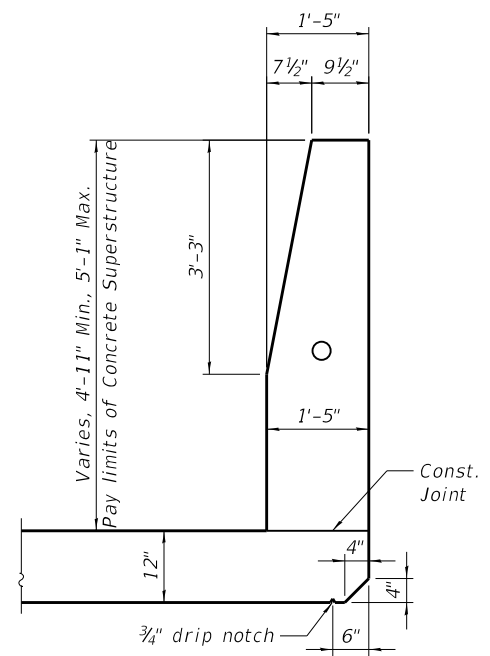


SECTION H-H

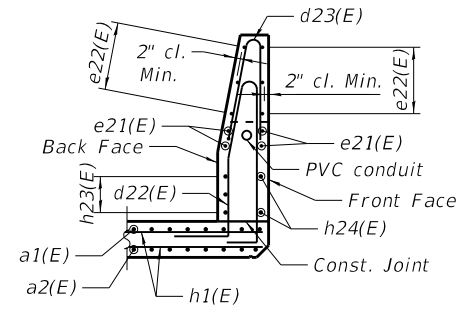


CORK JOINT DETAILS

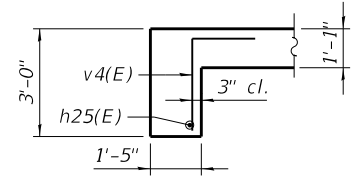
NOTE:
 For location of sections E-E thru H-H, see sheet S-07.



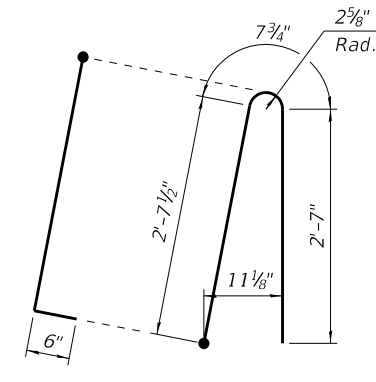
SECTION E-E



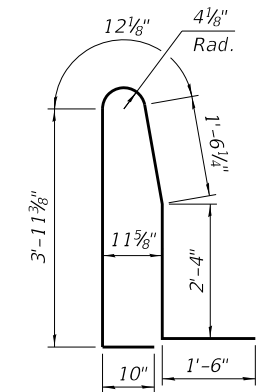
SECTION THROUGH NORTH HEADWALL



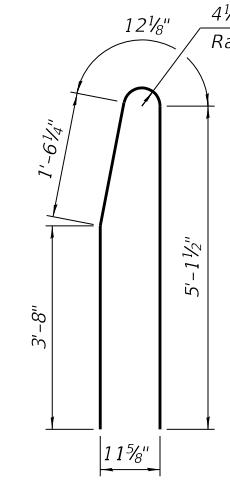
SECTION THROUGH NORTH TOEWALL



BAR d23(E)



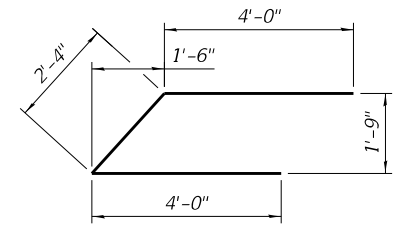
BAR d22(E)



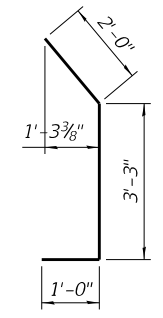
BAR d21(E)

DIMENSIONS

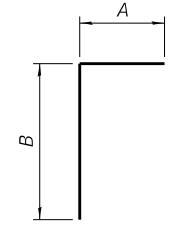
Bar	A	B
v1(E)	4'-6"	6'-8"
v3(E)	1'-0"	6'-4"
v4(E)	1'-9"	2'-6"
v11(E)	4'-0"	3'-6"
v12(E)	4'-0"	9'-5"



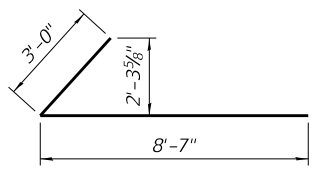
BAR h15(E)



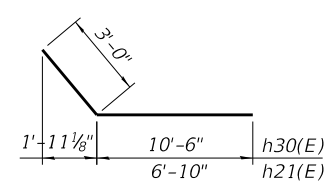
BAR h28(E)



BARS v1(E), v3(E), v4(E), v11(E) & v12(E)



BAR h27(E)

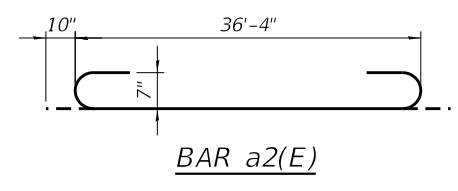


BARS h21(E) & h30(E)

**NORTH END SECTION
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	66	#8	36'-4"	—
a2(E)	66	#7	38'-0"	—
a3(E)	12	#4	20'-7"	—
d21(E)	28	#5	11'-4"	—
d22(E)	72	#5	11'-2"	—
d23(E)	100	#5	6'-4"	—
e21(E)	8	#4	28'-7"	—
e22(E)	18	#4	17'-9"	—
h14(E)	11	#4	9'-5"	—
h15(E)	7	#5	10'-4"	—
h16(E)	74	#4	1'-0"	—
h17(E)	26	#4	1'-5"	—
h21(E)	18	#9	9'-10"	—
h22(E)	11	#4	9'-9"	—
h23(E)	6	#4	19'-0"	—
h24(E)	4	#4	28'-6"	—
h25(E)	2	#4	21'-0"	—
h26(E)	7	#7	11'-3"	—
h27(E)	18	#7	11'-7"	—
h28(E)	18	#6	6'-3"	—
h29(E)	7	#7	13'-7"	—
h30(E)	18	#7	13'-6"	—
h40(E)	106	#5	9'-0"	—
h41(E)	166	#5	21'-0"	—
h42(E)	20	#4	21'-0"	—
v1(E)	132	#7	11'-2"	—
v2(E)	34	#5	8'-8"	—
v3(E)	132	#6	7'-4"	—
v4(E)	38	#4	4'-3"	—
v5(E)	56	#5	7'-1"	—
v11(E)	6	#4	7'-6"	—
v12(E)	6	#4	13'-5"	—
v21(E)	56	#5	8'-10"	—

Item	Unit	Total
Concrete Superstructure	Cu Yd	12.1
Protective Coat	Sq Yd	25
Reinforcement Bars, Epoxy Coated	Pound	27,220
Concrete Box Culverts	Cu Yd	90.8
Concrete Sealer	Sq Ft	187
Geocomposite Wall Drain	Sq Yd	6



BAR a2(E)

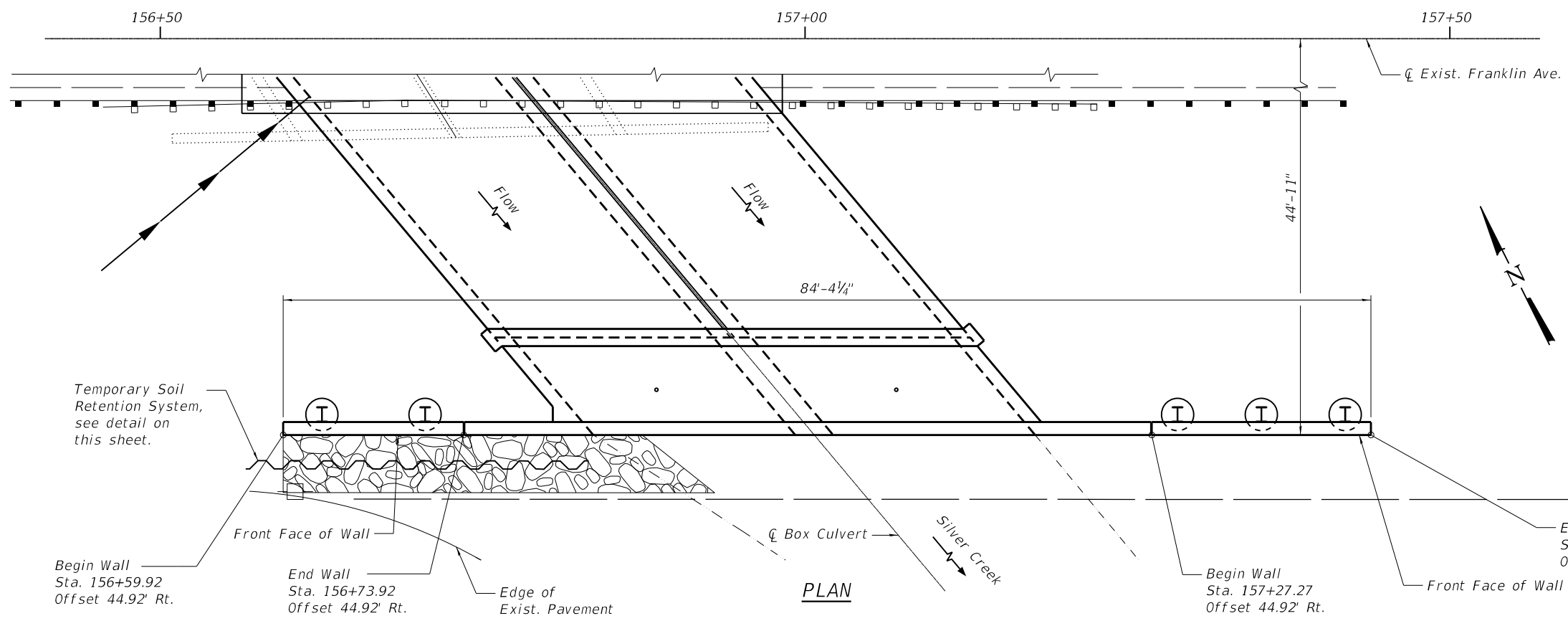
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH CULVERT END SECTION DETAILS III
 SILVER CREEK BOX CULVERT**

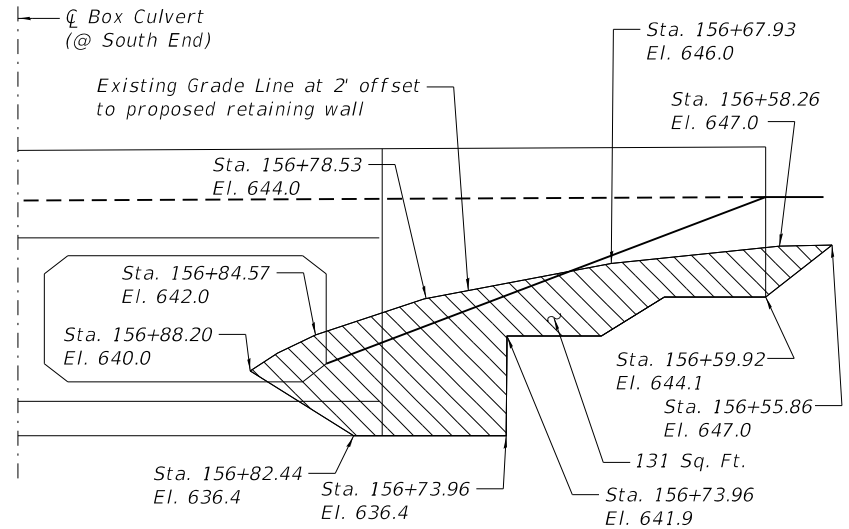
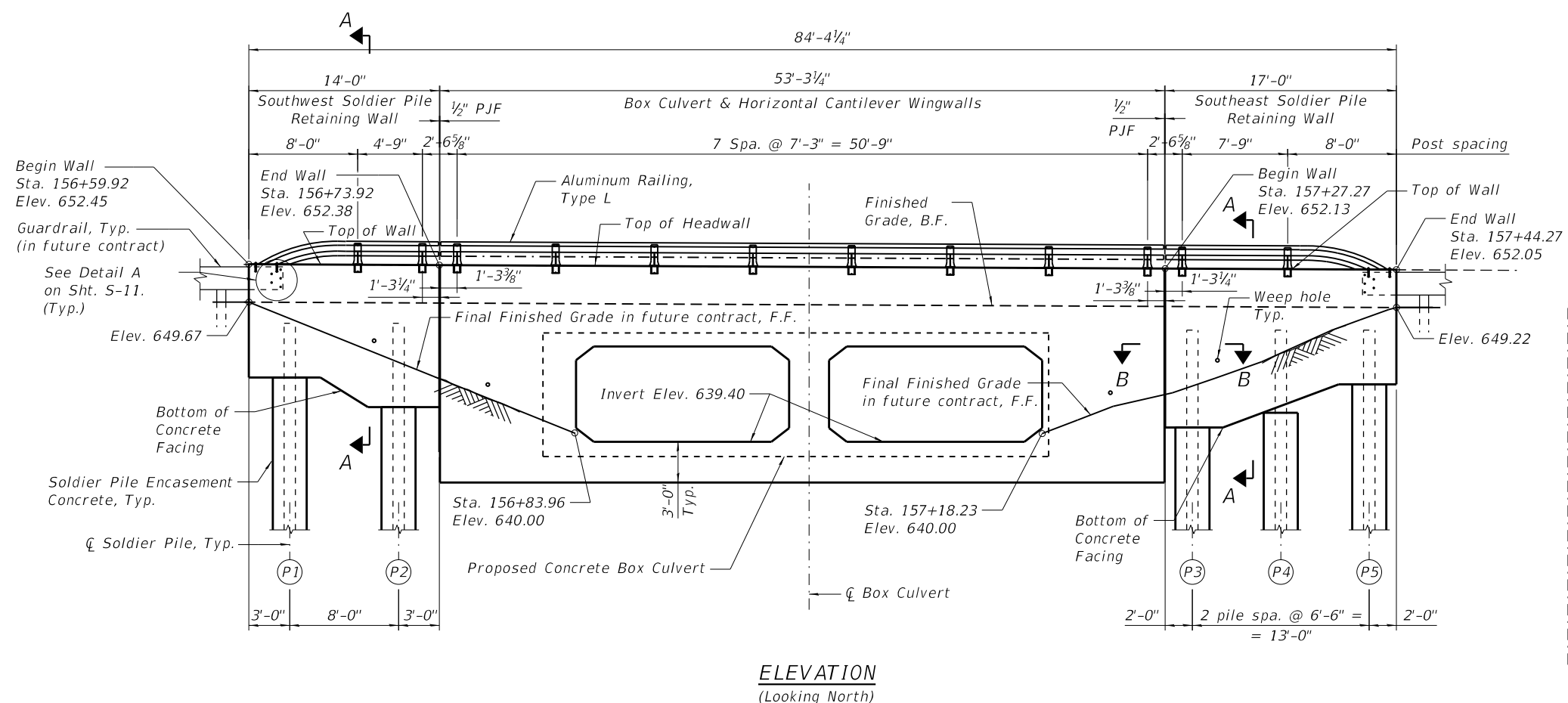
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR		78	47

CONTRACT NO. 61G76
 ILLINOIS FED. AID PROJECT

SHEET S-09 OF S-26 SHEETS



NOTE:
For sections A-A & B-B, see sheet S-12.



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exp U.S. Services Inc.
CHICAGO
BUILDINGS-EARTH & ENVIRONMENT-ENERGY
INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

USER NAME =	DESIGNED - YMC	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN - FD	REVISED -
	CHECKED - KK	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH RETAINING WALLS GENERAL PLAN AND ELEVATION
SILVER CREEK BOX CULVERT**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61G76				
		ILLINOIS	FED. AID PROJECT	

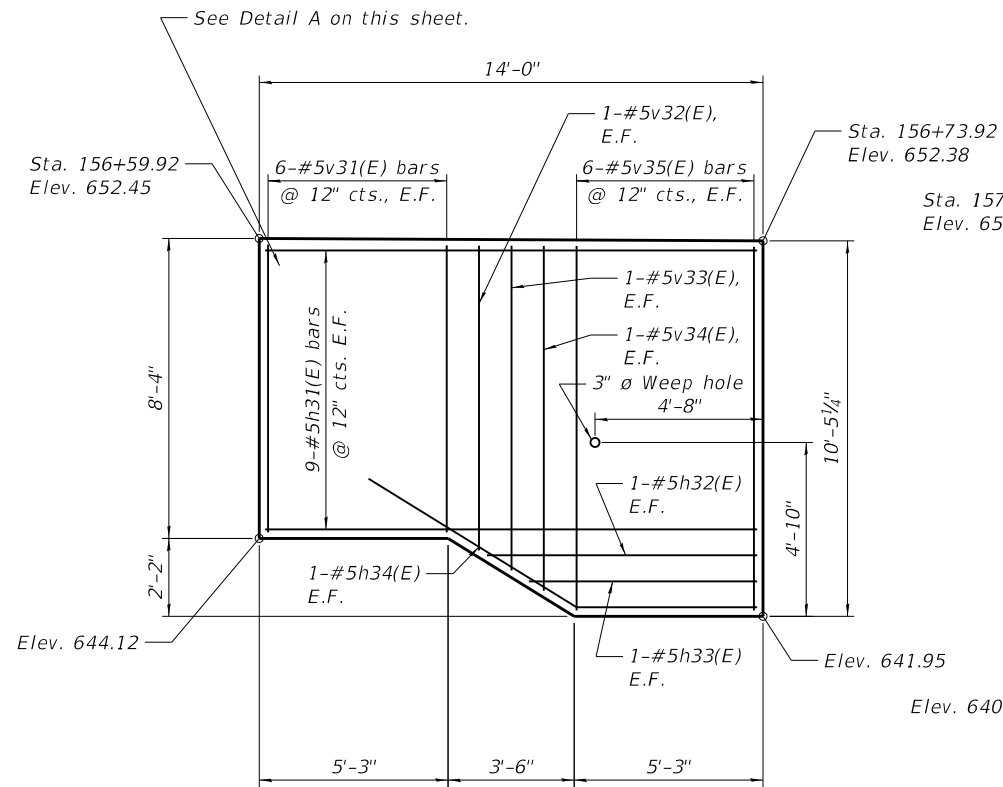
SHEET S-10 OF S-26 SHEETS

SOUTH SOLDIER PILE RETAINING WALLS

BILL OF MATERIAL

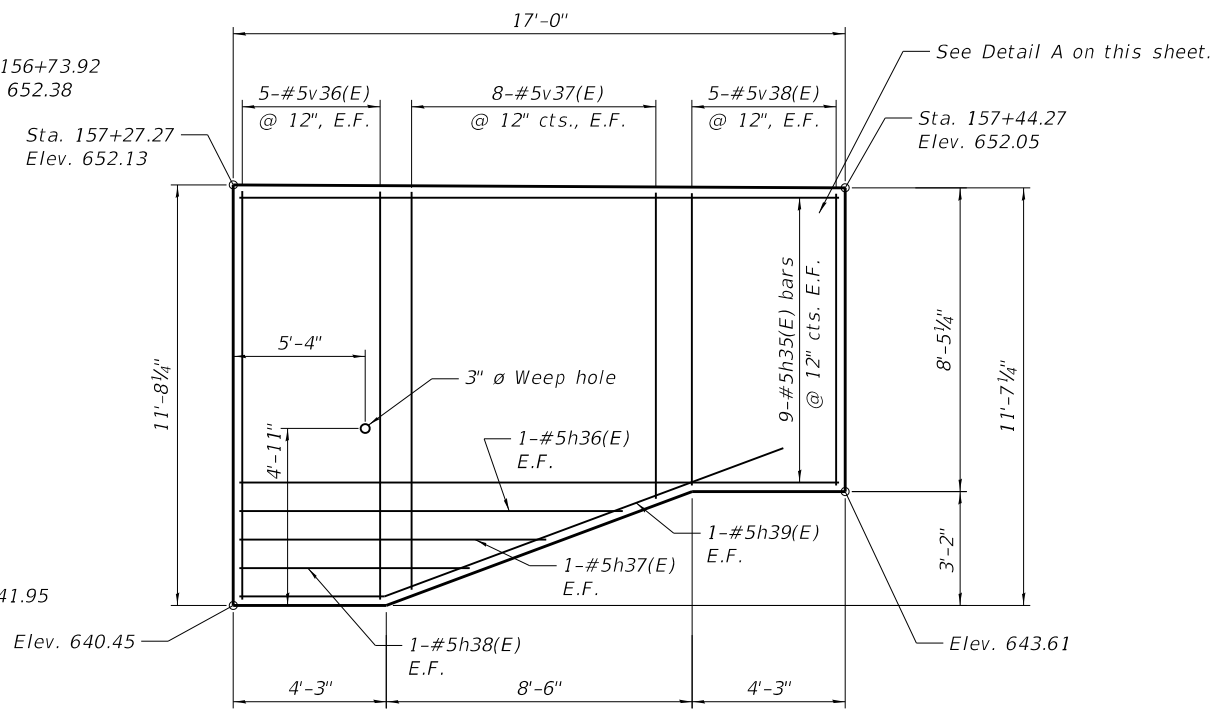
Bar	No.	Size	Length	Shape
h31(E)	18	#5	13'-8"	—
h32(E)	2	#5	7'-6"	—
h33(E)	2	#5	6'-4"	—
h34(E)	2	#5	11'-10"	—
h35(E)	18	#5	16'-8"	—
h36(E)	2	#5	10'-7"	—
h37(E)	2	#5	8'-6"	—
h38(E)	2	#5	6'-4"	—
h39(E)	2	#5	15'-10"	—
v31(E)	12	#5	8'-0"	—
v32(E)	2	#5	8'-5"	—
v33(E)	2	#5	9'-0"	—
v34(E)	2	#5	9'-6"	—
v35(E)	12	#5	10'-1"	—
v36(E)	10	#5	11'-4"	—
v37(E)	8	#5	19'-5"	—
v38(E)	10	#5	8'-1"	—

Item	Unit	Total
Concrete Structures	Cu Yd	11.3
Protective Coat	Sq Yd	13
Stud Shear Connectors	Each	32
Reinforcement Bars, Epoxy Coated	Pound	1,360
Furnishing Soldier Piles (W Section)	Foot	130
Drilling and Setting Soldier Piles (In Soil)	Cu Ft	501
Untreated Timber Lagging	Sq Ft	166
Concrete Sealer	Sq Ft	183
Geocomposite Wall Drain	Sq Yd	9



SOUTHWEST WALL ELEVATION

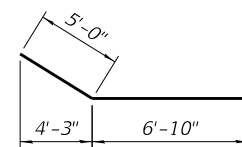
Looking North



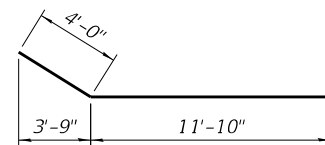
SOUTHEAST WALL ELEVATION

Looking North

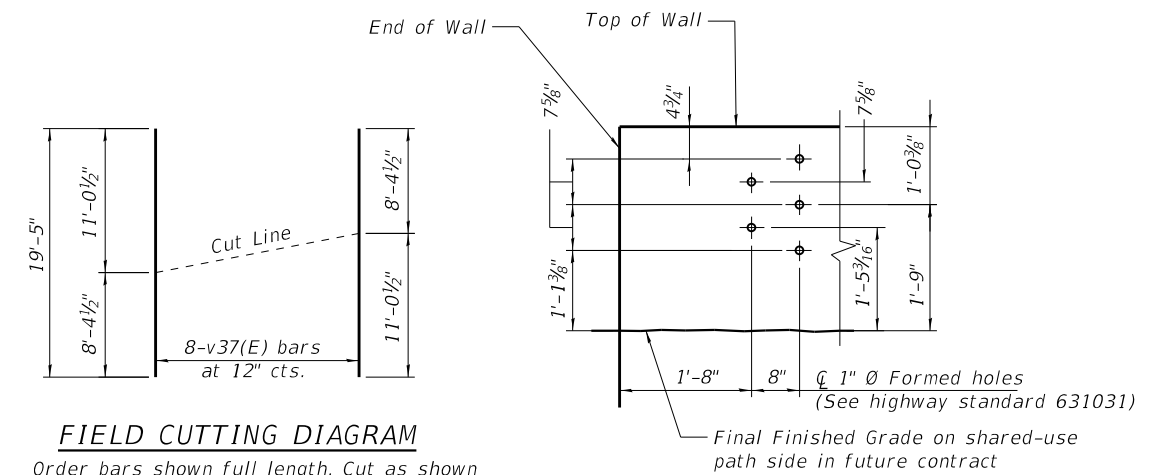
Pile No.	Size	Soldier Pile Data			No. of Studs	Encasement Conc. Data		
		Top Elev.	Bott. Elev.	Length (ft)		Dia. (in)	Top Elev.	Length (ft)
P1	W24x55	648.12	628.12	20.00	5	30	644.12	16.00
P2	W24x55	648.12	619.95	28.17	7	30	641.95	22.00
P3	W24x55	647.61	614.45	33.16	8	30	640.45	26.00
P4	W24x55	647.61	619.53	28.08	7	30	641.53	22.00
P5	W24x55	647.61	627.61	20.00	5	30	643.61	16.00



BAR h34(E)



BAR h39(E)



FIELD CUTTING DIAGRAM

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

DETAIL A

MODEL: Default
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	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DRAWN - FD	REVISED -
		CHECKED - KK	REVISED -

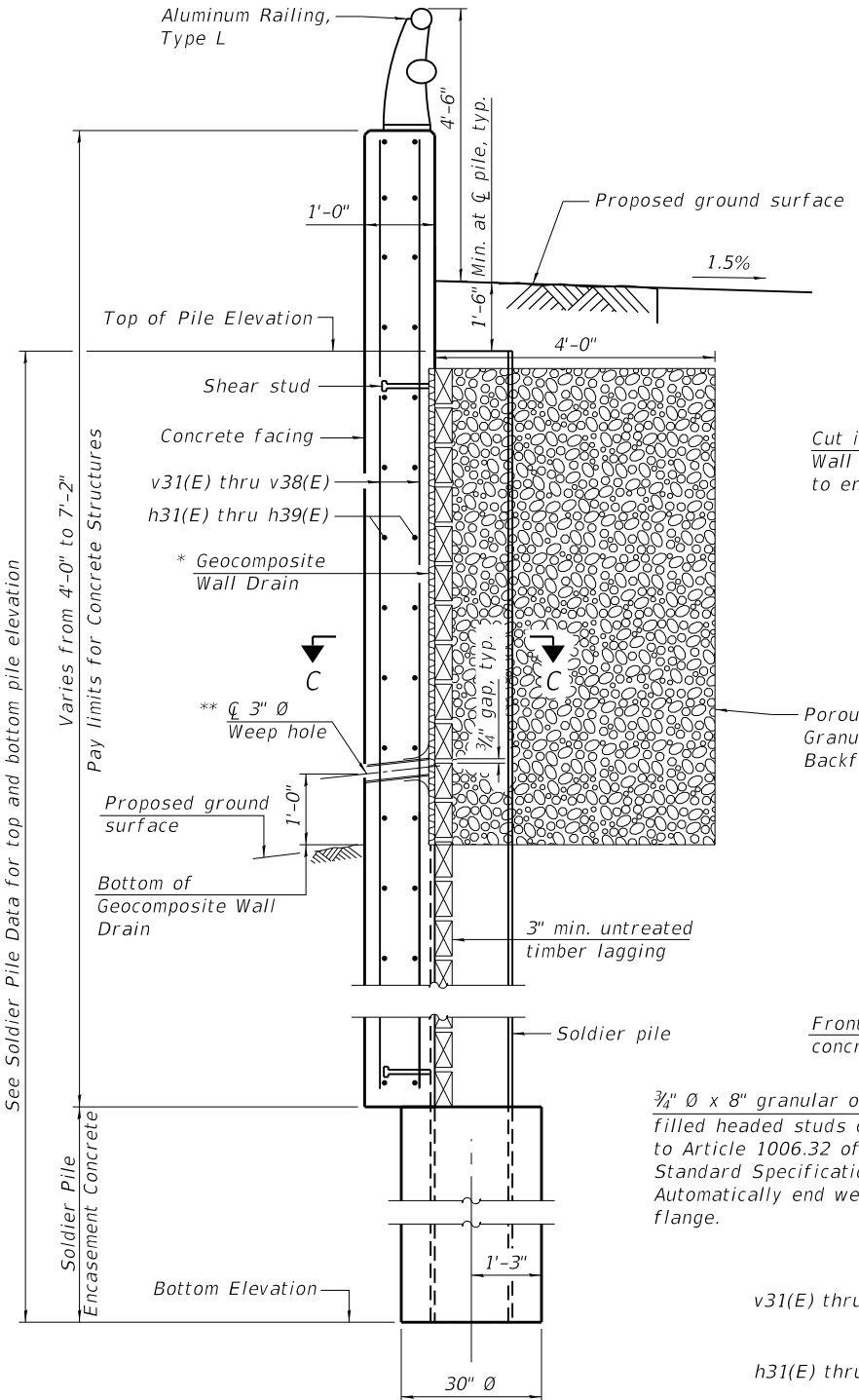
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOUTH RETAINING WALLS ELEVATIONS
 SILVER CREEK BOX CULVERT**

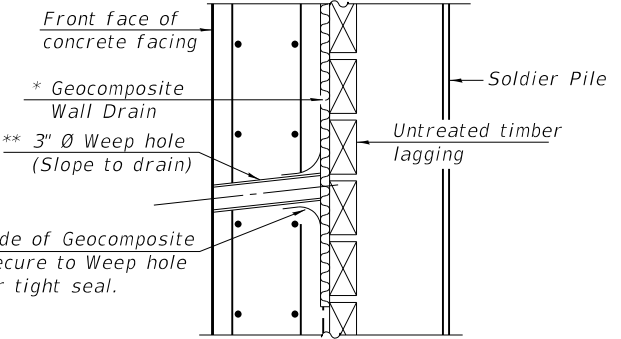
SHEET S-11 OF S-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR		78	49
CONTRACT NO. 61G76				
ILLINOIS		FED. AID PROJECT		

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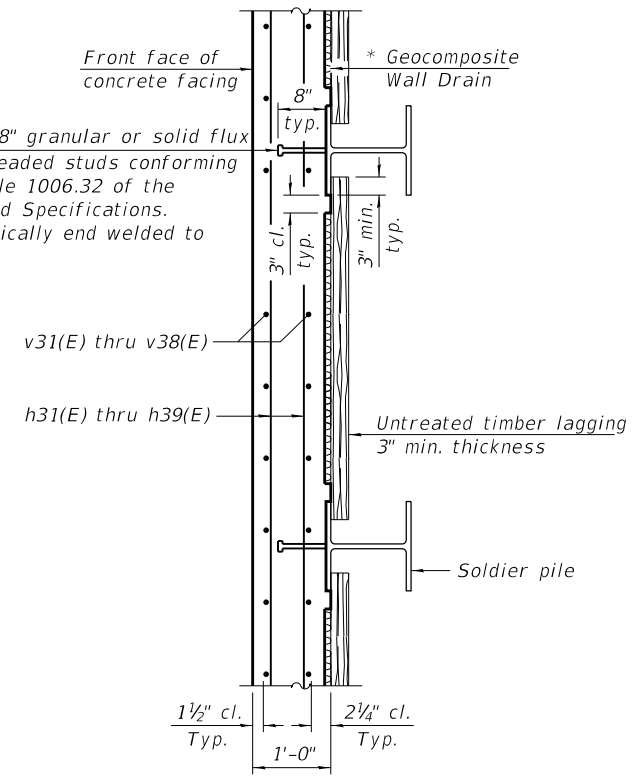
SECTION A-A



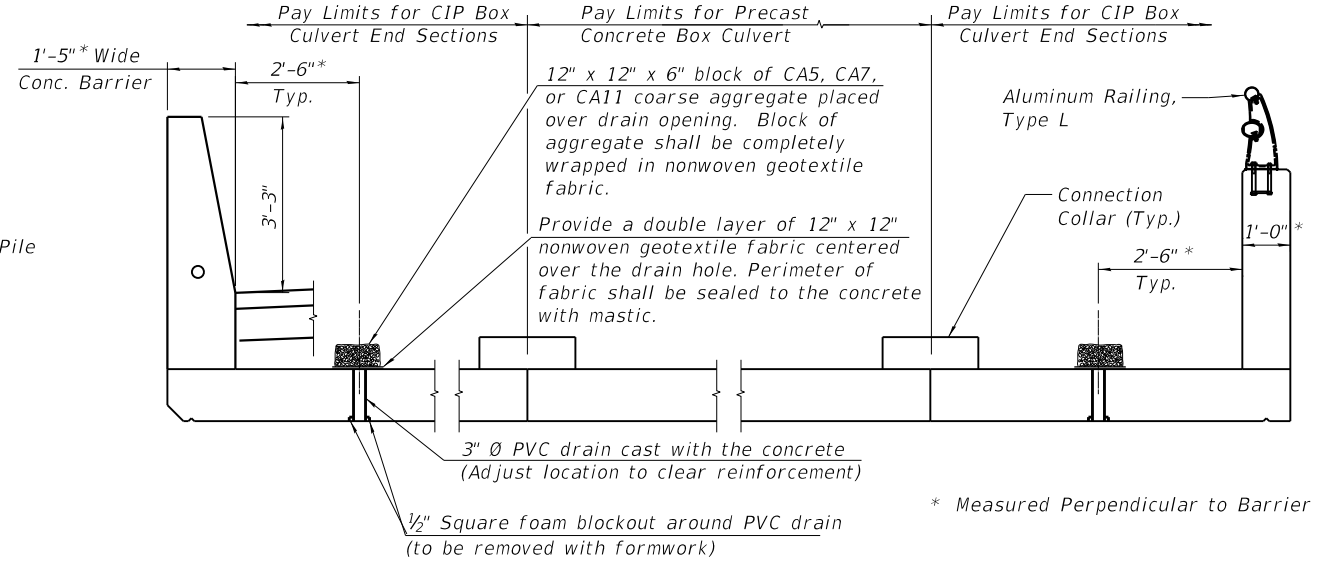
WEEP HOLE DRAIN DETAIL

** Cost of the Weep hole drain and connection to the Geocomposite Wall Drain are included in the cost of Concrete Box Culverts.

* Geocomposite Wall Drain not to exceed thickness of 3/4 inch.



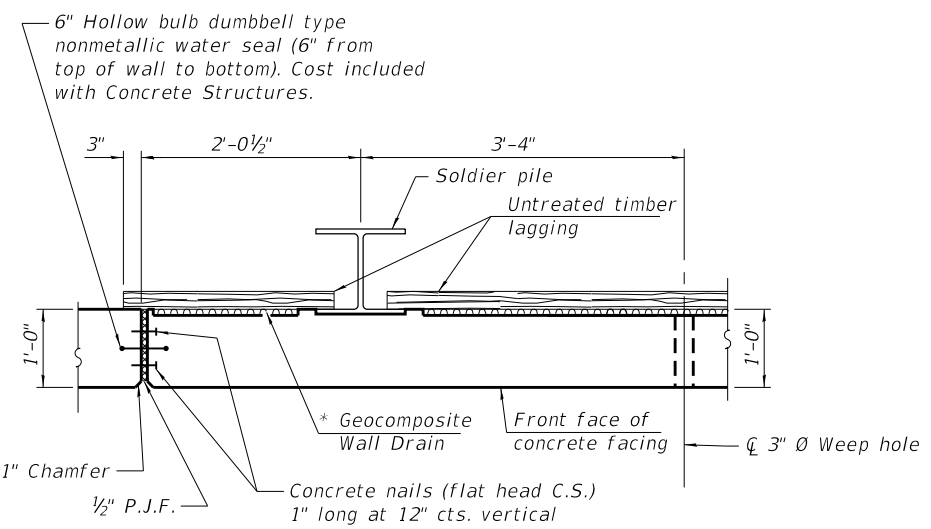
SECTION C-C



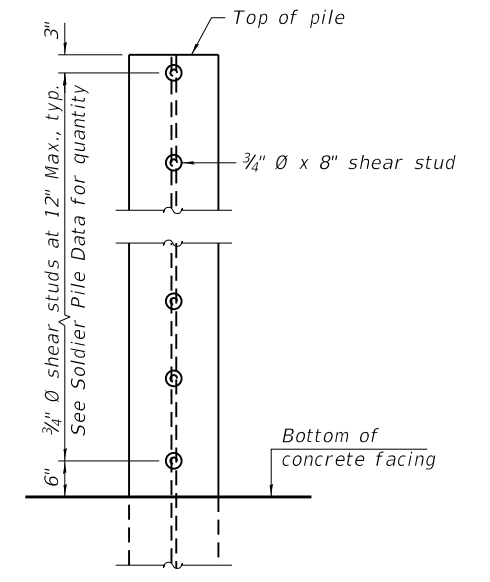
DRAIN DETAIL

(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.)

* Measured Perpendicular to Barrier



SECTION B-B



SHEAR STUD DETAIL

(Elevation of pile shown)

NOTE:

For Location of sections A-A & B-B, see Sheet S-10.

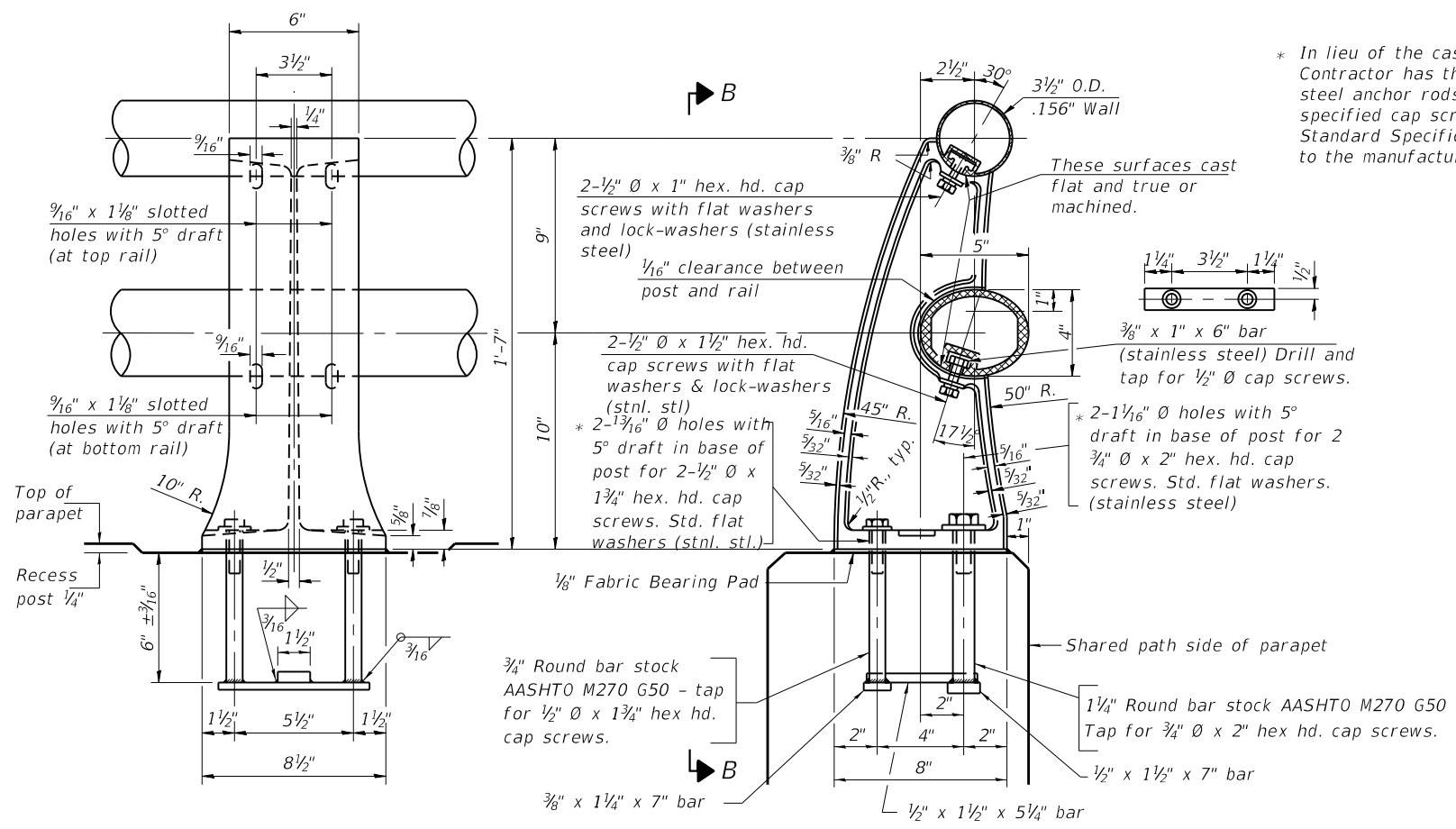
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
 SILVER CREEK BOX CULVERT**

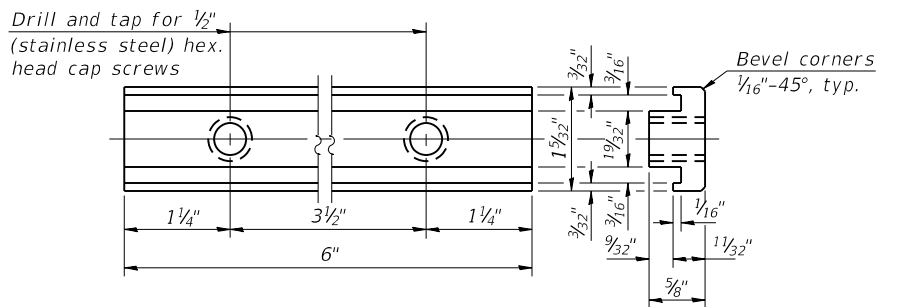
SHEET S-12 OF S-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR		78	50
CONTRACT NO. 61G76				
		ILLINOIS	FED. AID PROJECT	

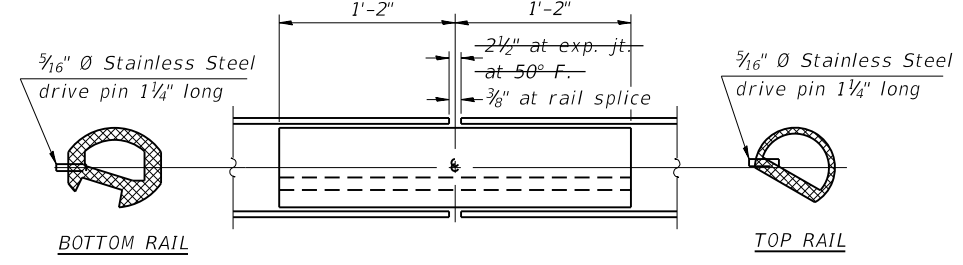
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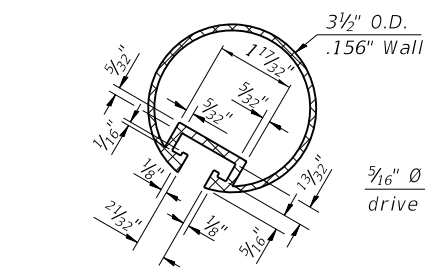
VIEW B-B
RAIL POST DETAILS



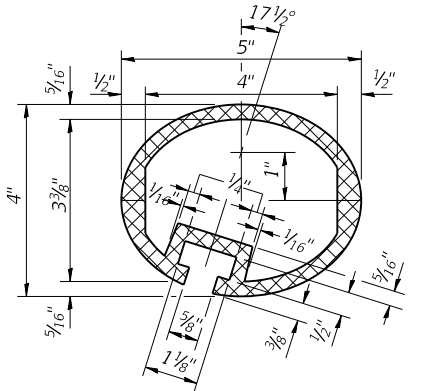
RAIL POST CLAMP BAR
 For Top Rail



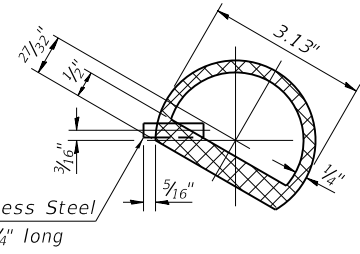
RAIL SPLICE
 Not allowed along soldier pile retaining wall.



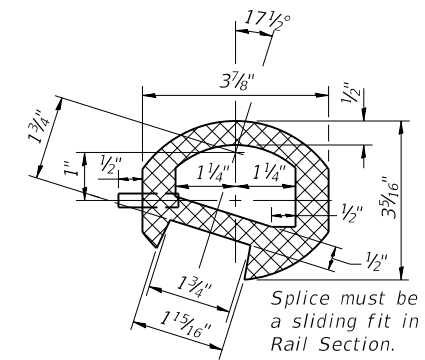
SECTION THRU TOP RAIL



SEC. THRU ELLIPTICAL RAIL SECTION

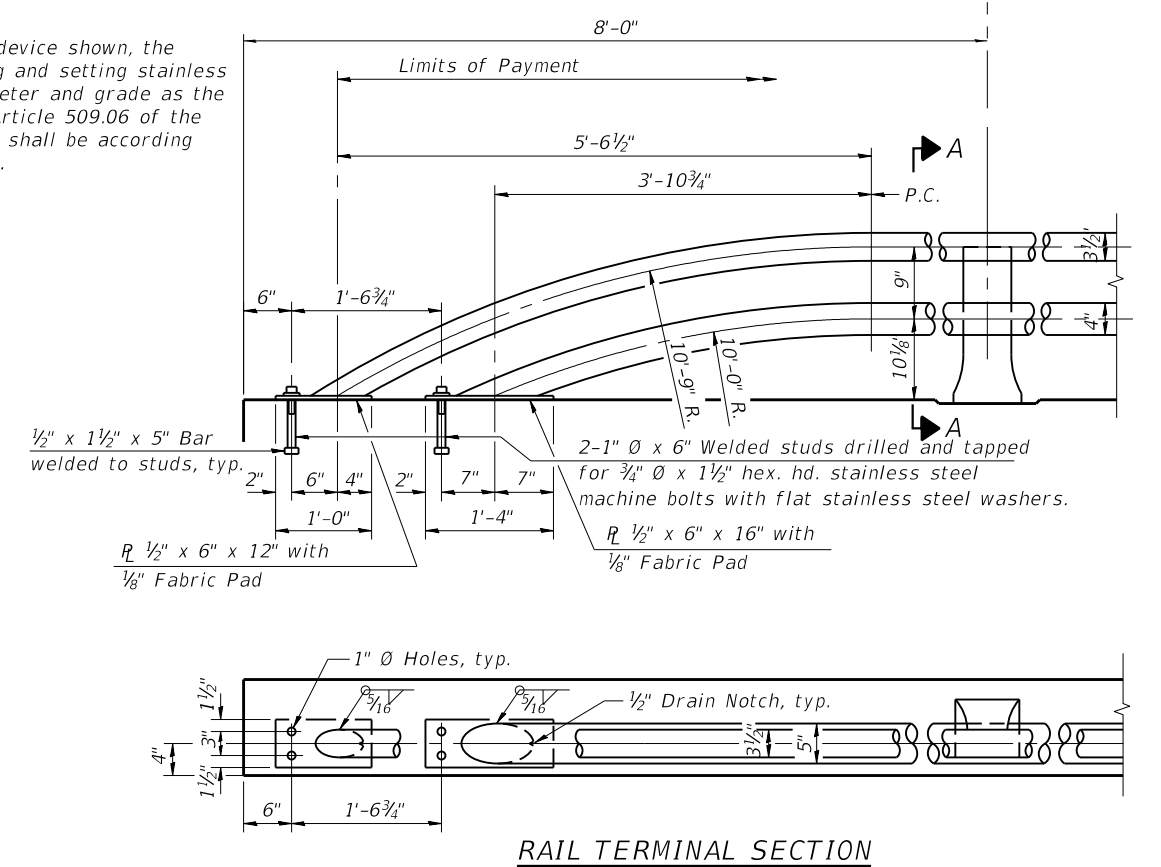


SECTION THRU SPLICE
 For Top Rail

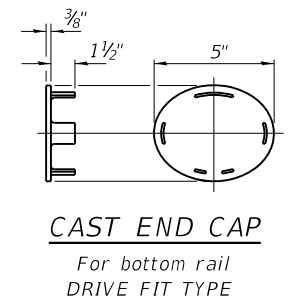


SEC. THRU SPLICE

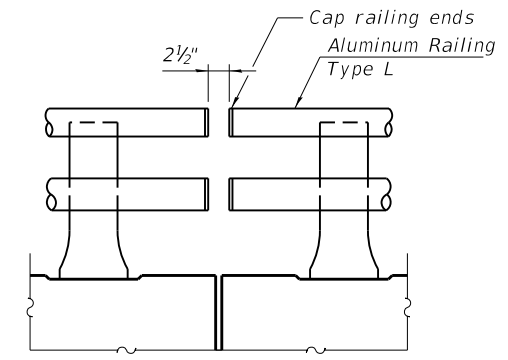
* In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



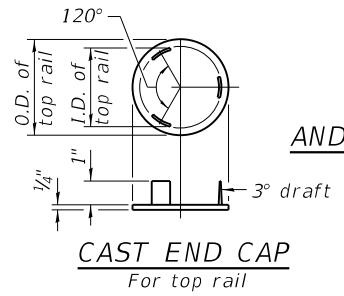
RAIL TERMINAL SECTION



CAST END CAP
 For bottom rail DRIVE FIT TYPE



ELEVATION AT JOINT BETWEEN SOLDIER PILE RETAINING WALL AND HORIZONTAL CANTILEVER WINGWALL
 (See Sheet S-10.)



CAST END CAP
 For top rail

Notes:
 All Posts shall be normal to parapet.
 All joints in rail shall be spliced per detail.
 All exposed rail ends shall be capped per detail.
 Provide 1-1/8" and 2-1/16" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.
 See Sheet S-10 for rail post spacing.

BILL OF MATERIAL

Item	Unit	Total
Aluminum Railing, Type L	Foot	83

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET RAILING DETAILS
SILVER CREEK BOX CULVERT

SHEET S-13 OF S-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR		78	51
CONTRACT NO. 61G76				
ILLINOIS			FED. AID PROJECT	



GSI Job No. 19083

SOIL BORING LOG

Page 1 of 1

Date 8/13/19

ROUTE 3533 DESCRIPTION Franklin Avenue Reconstruction From Acorn Lane to Mannheim Road LOGGED BY TC

SECTION 17-00083-00-PV LOCATION SW 1/4, SEC. 20, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD HSA/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. Station
BORING NO. CB-001 Station 156+18 Offset 22.30ft Left Ground Surface Elev. 647.36 ft

DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)
646.36			19	SANDY TOPSOIL with GRAVEL-black (Fill)				
	2			SILTY CLAY-dark brown, gray & spotted black-stiff (Fill)		8		
	3	1.3	21			6		20
	4	P				6		
	2			ORGANIC SILTY CLAY-black-medium stiff		3		
	3	1.2	27			5	1.7	18
	4	B				6	B	
641.86				becoming dark brown & gray @ -8.0'		4		
	2	0.6	40			7	1.3	18
	2	B				9	B	
	1			SILT-gray-very dense		30		
	1	0.5	34			36		18
	1	B				44		
636.86				SANDY LOAM-gray (A-2-4)				
	ST		18					
634.36				CLAY-gray-stiff		11		
	5	1.3	18			14	4.5	13
	6	P				24	P	
	4			SILTY CLAY LOAM-gray-dense				
	6	1.5	20					
	6	B						
	5			End Of Boring @ -40.0'. Boring backfilled with cuttings.		15		
	6	1.5	23			20	2.3	13
	7	B				16	P	

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), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)



GSI Job No. 19083

SOIL BORING LOG

Page 1 of 1

Date 8/5/19

ROUTE 3533 DESCRIPTION Franklin Avenue Reconstruction From Acorn Lane to Mannheim Road LOGGED BY ML

SECTION 17-00083-00-PV LOCATION SW 1/4, SEC. 20, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD HSA/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. Station
BORING NO. CB-002 Station 157+09 Offset 15.20ft Left Ground Surface Elev. 647.62 ft

DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)
647.20				5.0" ASPHALT				
	1			CLAY LOAM with Gravel-dark brown & gray spotted black-loose to very dense (Fill)		3		
	3		12			4	2.3	17
	4					7	P	
	50+					9		
	7	2.5	18	SILTY CLAY with Organics-gray-stiff		8		
	8	P				7		
	4	B	25			8	2.0	18
	13	P		SILTY LOAM-gray-dense to very dense		22		
	1					38		17
	3	1.5	23			39		
	4	P		SILTY SAND & GRAVEL-dark gray-loose				
	0		NR					
	1							
	5			CLAY to CLAY LOAM-gray-very stiff		34		
	6		13			27		20
	8					24		
632.12				CLAY to CLAY LOAM-gray-very stiff		2		
	4	2.5	19			4		
	10	P				10		
	3			CLAYEY GRAVEL-gray-dense		23		
	4	2.0	21			24		10
	5	P				25		

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), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)

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exp U.S. Services Inc.
Chicago
BUILDINGS-EARTH & ENVIRONMENT-ENERGY
INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

USER NAME =	DESIGNED - YMC	REVISED -
CHECKED -	CHECKED -	REVISED -
PLOT SCALE =	DRAWN - FD	REVISED -
PLOT DATE =	CHECKED - KK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 1
SILVER CREEK BOX CULVERT

SHEET S-14 OF S-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR		78	52
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				



GSI Job No. 19083

SOIL BORING LOG

Page 1 of 1

Date 8/13/19

ROUTE 3533 DESCRIPTION Franklin Avenue Reconstruction From Acorn Lane to Mannheim Road LOGGED BY TC

SECTION 17-00083-00-PV LOCATION SW 1/4, SEC. 20, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD HSA/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. Station
 BORING NO. CB-003 Station 157+30 Offset 25.90ft Right Ground Surface Elev. 646.85 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION
645.85			7	SAND, GRAVEL & STONE-black (Fill)	626.35				SILT-gray-medium dense (continued)
	4	1.8	21	SILTY CLAY-dark brown, gray & black-medium stiff to stiff (Fill)		3	1.0	23	SILTY CLAY-gray-stiff
	4	P			623.85				
	2					3			SILTY LOAM-gray-loose to medium dense
	2	0.9	35			4		19	
	2	B				3			
641.35				ORGANIC SILTY CLAY-black-medium stiff		4			
	3	0.9	35			4		17	
	4	B				6			
	1			becoming dark brown & gray @ -8.0'	618.85				SILT-gray-loose
	1	0.9	31			3			
	2	B				4		23	
	2	B				4			
636.35				SILTY CLAY LOAM-gray-soft					
	1								
	2	0.3	27		614.85				SILTY LOAM-gray-dense
	2	B							
633.85				SILTY SAND & GRAVEL-gray-medium dense		12			
	5					15		17	
	6		11			17			
	7								
631.35				CLAY-gray-very stiff					
	6				609.85				CLAY LOAM-gray-very stiff
	6	2.3	19						
	6	B							
628.85				SILT-gray-medium dense		13			
	3					13	2.7	15	End Of Boring @ -40.0'. Boring backfilled with cuttings.
	4		21			19	B		
	7				606.85	40			

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), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)

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exp U.S. Services Inc. CHICAGO BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	USER NAME =	DESIGNED - YMC	REVISED -
	CHECKED -	CHECKED -	REVISED -
	PLOT SCALE =	DRAWN - FD	REVISED -
	PLOT DATE =	CHECKED - KK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 2
SILVER CREEK BOX CULVERT
 SHEET S-15 OF S-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR		78	53
CONTRACT NO. 61G76				
		ILLINOIS	FED. AID PROJECT	

Benchmark: Cross cut on top of SSE bonnet bolt of second fire hydrant east of Silver Creek, being also first hydrant east of water tower entrance (first hydrant west of I-294 overpass) on SW side of Franklin Avenue. Sta. 161+26, 42' Rt., Elev. 650.29

Existing Structure: Standard slopewall with crushed aggregate paving on top.

For maintenance of traffic details, see Staging and Traffic Control Plans.

DESIGN STRESSES

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50, Soldier Pile)

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

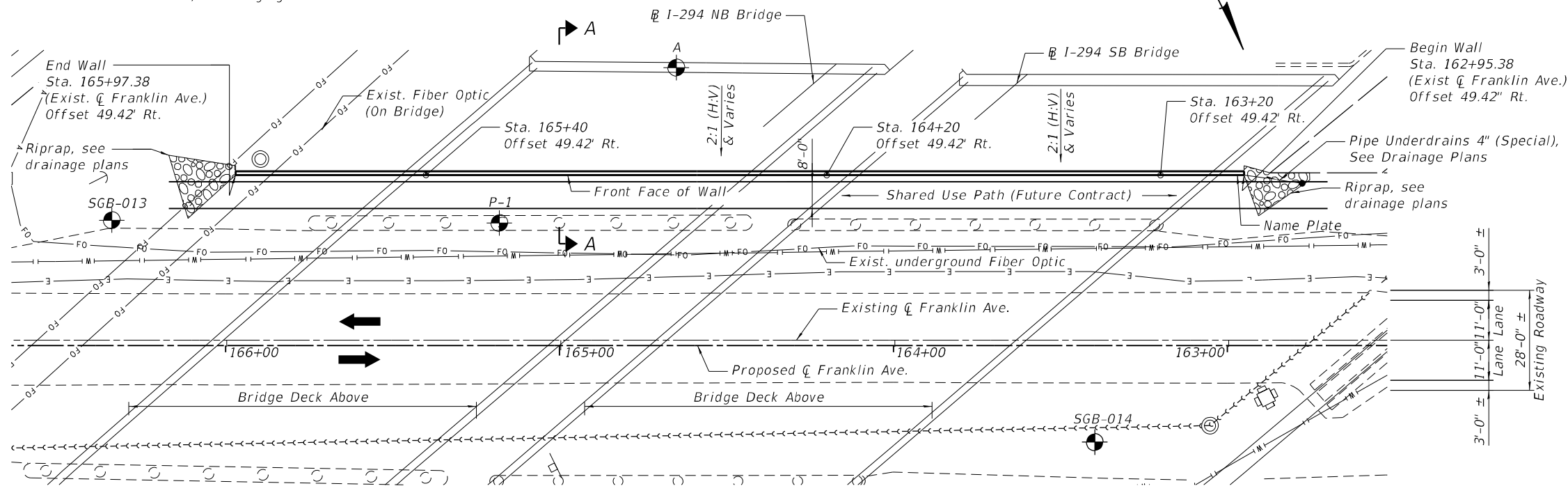
STA. 162+95.38 TO 165+97.38
 BUILT 202_ BY
 VILLAGE OF FRANKLIN PARK
 SEC. 17-00083-01-BR
 F.A.U.RTE. 3533
 STRUCTURE NO. ____

NAME PLATE

(Coordinate with Village of Franklin Park for Structure No., Plate Template and Lettering)

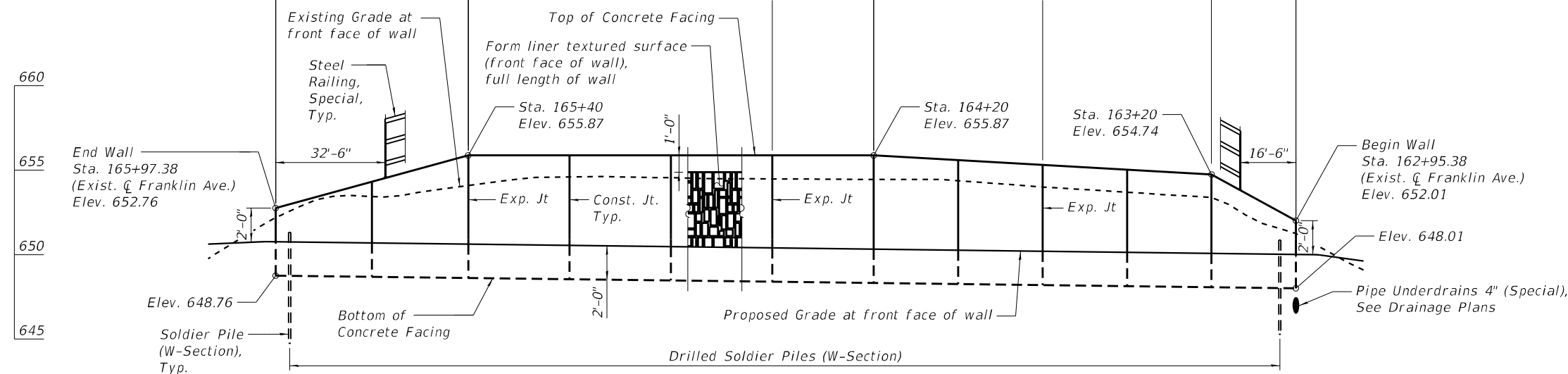
LEGEND

- E — Exist. Underground Electric
- FO — Exist. Underground Fiber Optic
- - - - - Exist. Underground Sanitary Sewer
- W — Exist. Underground Water Utility
- A — Exist. Aerial Lines
- — — — — Exist. ROW
- Pr. Drainage
- Catch Basin
- ⊕ Soil Boring



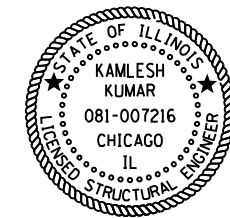
PLAN

Total Length	302'-0"			
Control Points	57'-0"	120'-0"	100'-0"	25'-0"
Expansion Joint Spacing	57'-0"	90'-0"	80'-0"	75'-0"
Joint Spacing	2 Spa. @ 28'-6" = 57'-0"	4 Spa. @ 30'-0" = 120'-0"	5 Spa. @ 25'-0" = 125'-0"	



ELEVATION

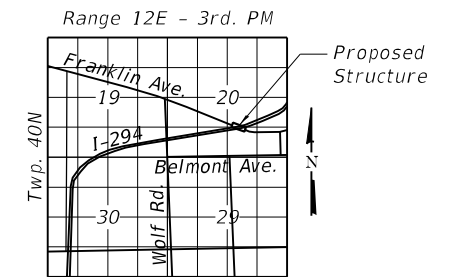
Looking South at Front Face of Wall



Expires 11/30/2022

Signature *Kumlesh Kumar*

I certify that to the best of knowledge, information and belief, this retaining wall design is structurally adequate for the applicable design loading and complies with requirements of the current LRFD AASHTO Bridge Design Specifications. The design is an economical one for the type of structure.



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
 SOLDIER PILE WALL UNDER I-294
 F.A.U. RTE. 3533 - SEC. 17-00083-01-BR**

COOK COUNTY

STATION 162+95.38 TO 165+97.38

STRUCTURE NO. ---

NOTES:

1. Offsets are measured from existing \bar{C} of Franklin Ave. to front face of wall.

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION
 SOLDIER PILE WALL UNDER I-294**

SHEET S-16 OF S-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR		78	54
CONTRACT NO. 61G76				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

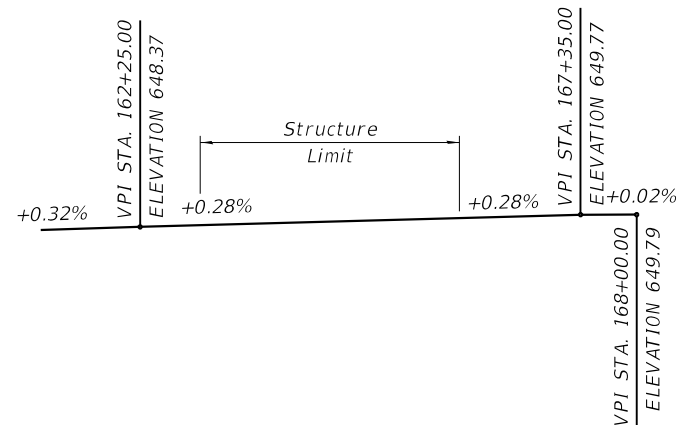
1. No field welding is permitted except as specified in the contract documents.
2. Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60.
3. Reinforcement bars designated (E) shall be epoxy coated.
4. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1,000 psi.
5. The clear cover for the reinforcement bars to the surface of concrete shall be 2" unless otherwise shown.
6. Protective Coat shall be applied to all exposed surfaces of the concrete facing for the full length of the wall.
7. Due to limited overhead clearance, some of the soldier piles may need to be spliced in the field. For splice detail see sheet S-23.

INDEX OF SHEETS

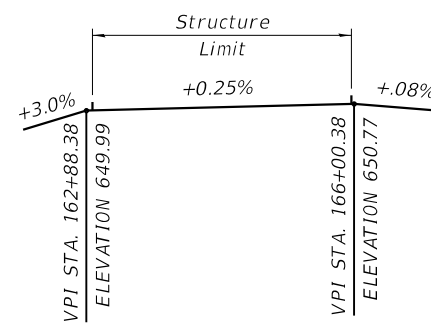
- S-16 General Plan and Elevation
- S-17 General Notes
- S-18 Plan and Elevation 1; Sta. 165+10 to 165+97
- S-19 Plan and Elevation 2; Sta. 163+95 to 165+10
- S-20 Plan and Elevation 3; Sta. 162+95 to 163+95
- S-21 Sections and Details 1
- S-22 Sections and Details 2
- S-23 Sections and Details 3
- S-24 Steel Railing
- S-25 Soil Boring Logs 1
- S-26 Soil Boring Logs 2

TOTAL BILL OF MATERIAL

Item	Unit	Total
Structure Excavation	Cu. Yd.	175
Concrete Structures	Cu. Yd.	86
Form Liner Textured Surface	Sq. Ft.	1,147
Protective Coat	Sq. Yd.	205
Stud Shear Connectors	Each	384
Reinforcement Bars, Epoxy Coated	Pound	15,090
Name Plates	Each	1
Furnishing Soldier Piles (W Section)	Foot	777
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	5,861
Untreated Timber Lagging	Sq. Ft.	1,550
Geocomposite Wall Drain	Sq. Yd.	189
Concrete Gutter, Type B	Foot	302
Steel Railing (Special)	Foot	253
Pipe Underdrains for Structures 4"	Foot	302



**PROFILE GRADE
EXISTING & FRANKLIN AVE.**



**PROFILE GRADE
PROPOSED SHARED PATH**

(Future Contract, For Information Only)

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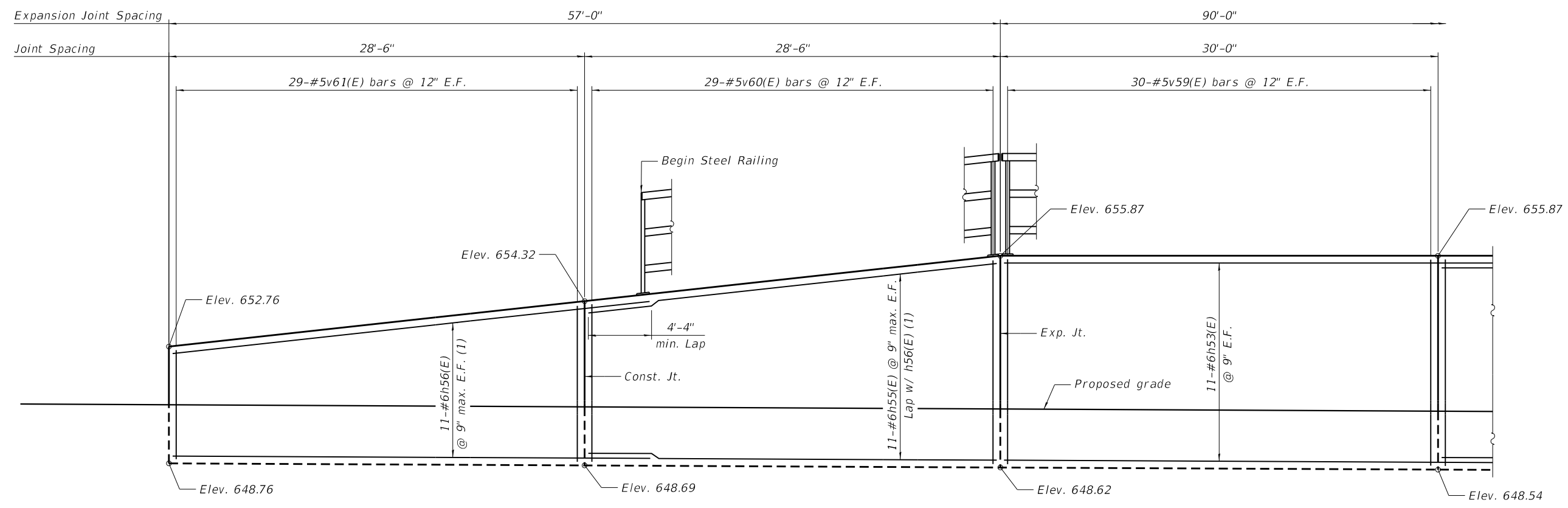
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
SOLDIER PILE WALL UNDER I-294**

SHEET S-17 OF S-26 SHEETS

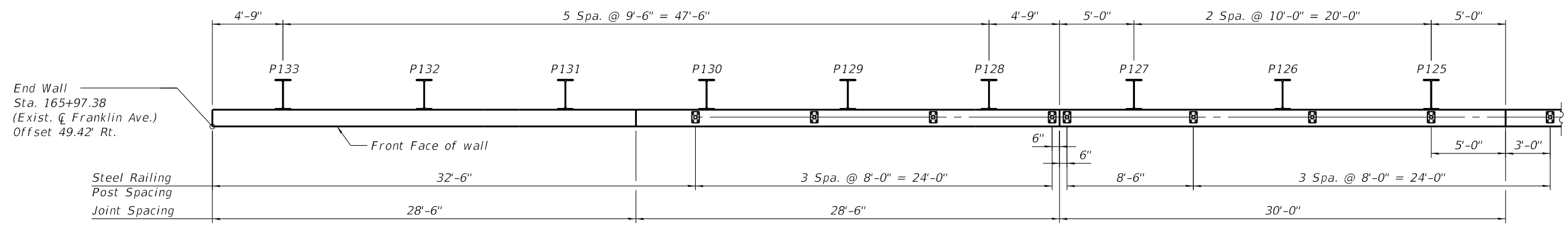
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			CONTRACT NO. 61G76	
		ILLINOIS	FED. AID PROJECT	

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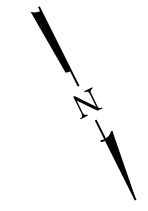


ELEVATION

REINFORCEMENT BAR NOTES:
 (1) Flare bars uniformly as shown.



PLAN



NOTES:
 1. Work this sheet with sheets S-16 thru S-26
 2. E.F. denotes Each Face of wall
 3. P101 denotes Pile Number
 4. Offsets are measured from existing \bar{C} Franklin Ave. to front face of wall

exp U.S. Services Inc.
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PLOT DATE =	CHECKED - CCE	REVISED -

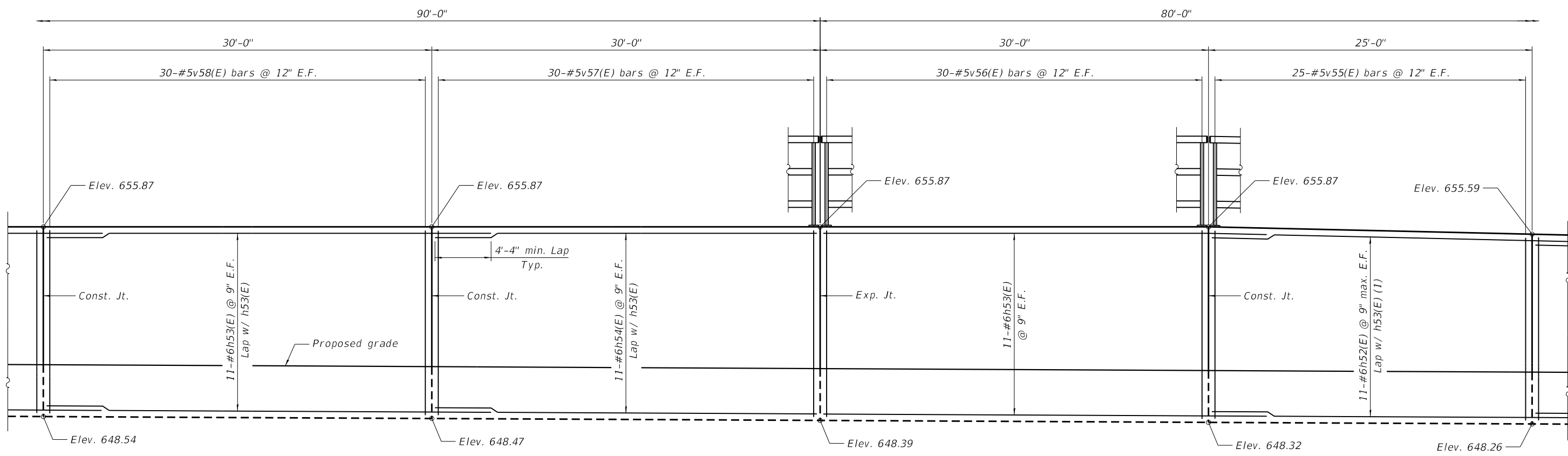
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND ELEVATION 1; STA. 165+10 TO STA. 165+97
 SOLDIER PILE WALL UNDER I-294**

SHEET S-18 OF S-26 SHEETS

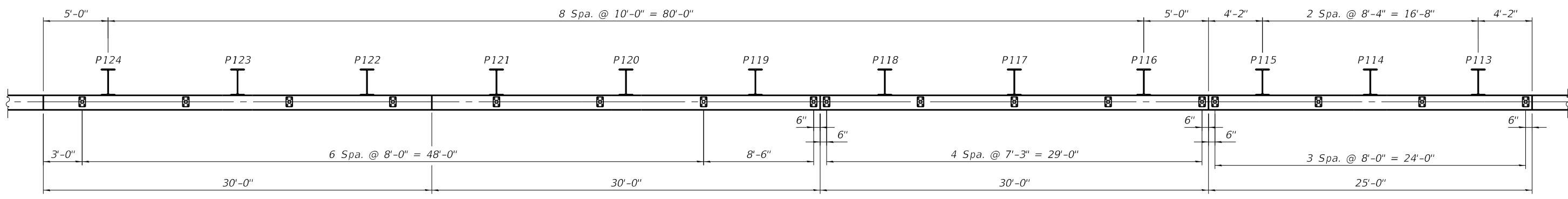
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		ILLINOIS	FED. AID PROJECT	

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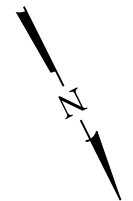


ELEVATION

REINFORCEMENT BAR NOTES:
 (1) Flare bars uniformly as shown.



PLAN



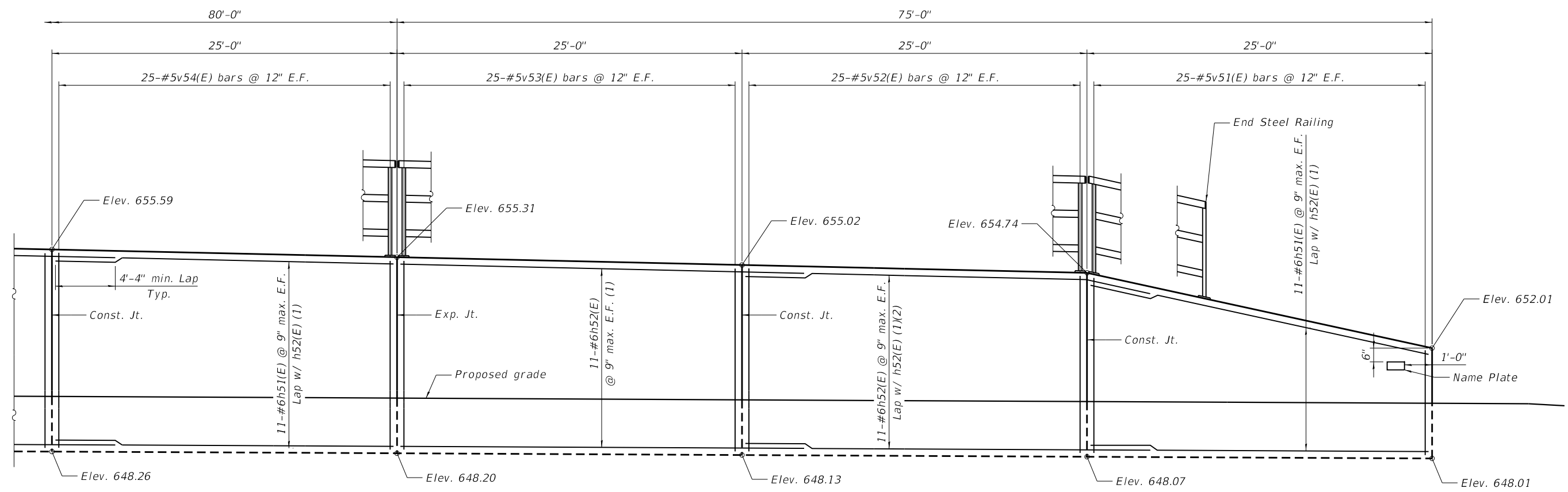
NOTES:
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 2. E.F. denotes Each Face of wall
 3. P101 denotes Pile Number

exp U.S. Services Inc. CHICAGO BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & ELEVATION 2; STA. 163+95 TO STA. 165+10 SOLDIER PILE WALL UNDER I-294	F.A.U. RT. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE =	CHECKED - CCE	REVISED -	CONTRACT NO. 61G76							
			ILLINOIS FED. AID PROJECT							

SHEET S-19 OF S-26 SHEETS

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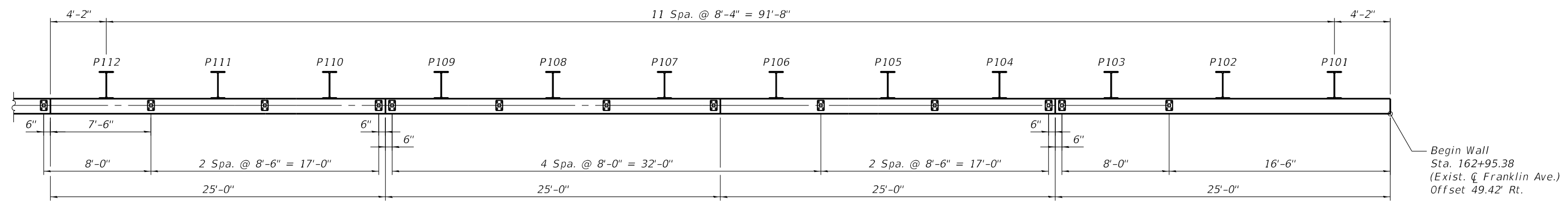
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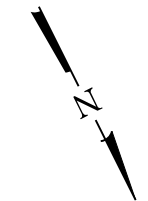
ELEVATION

REINFORCEMENT BAR NOTES:

- (1) Flare bars uniformly as shown.
- (2) Bend bars in field as shown.



PLAN



NOTES:

- 1. Work this sheet with sheets S-16 thru S-26
- 2. E.F. denotes Each Face of wall
- 3. P101 denotes Pile Number
- 4. Offsets are measured from existing C. Franklin Ave. to front face of wall

exp U.S. Services Inc.
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 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN - EG	REVISED -
	CHECKED - CCE	REVISED -

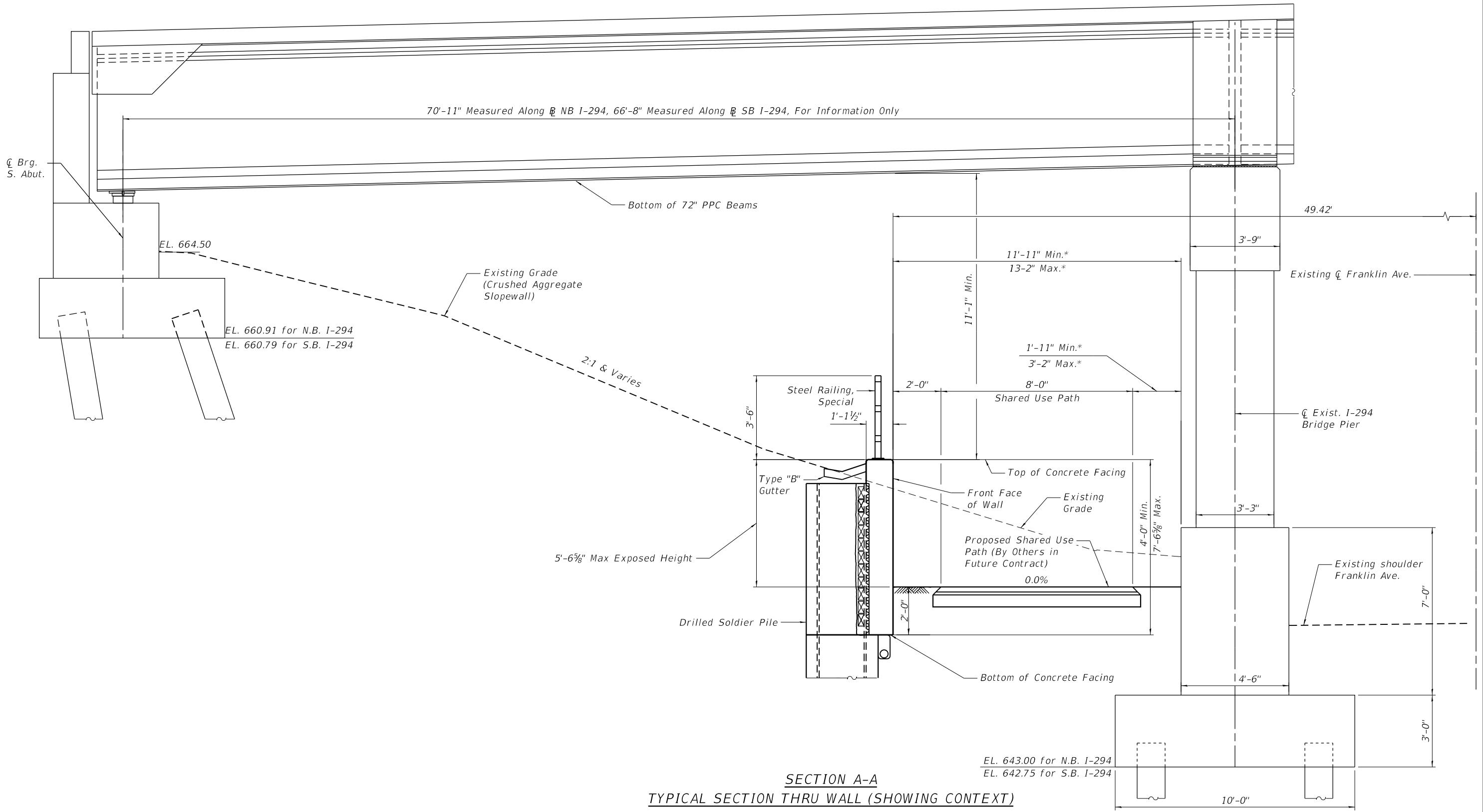
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND ELEVATION 3; STA. 162+95 TO STA. 163+95
 SOLDIER PILE WALL UNDER I-294**

SHEET S-20 OF S-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 61G76	
		ILLINOIS	FED. AID PROJECT	

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SECTION A-A
TYPICAL SECTION THRU WALL (SHOWING CONTEXT)

*Dimension measured perpendicular to front face of wall. For information only.

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PLOT SCALE =	CHECKED -	REVISED -
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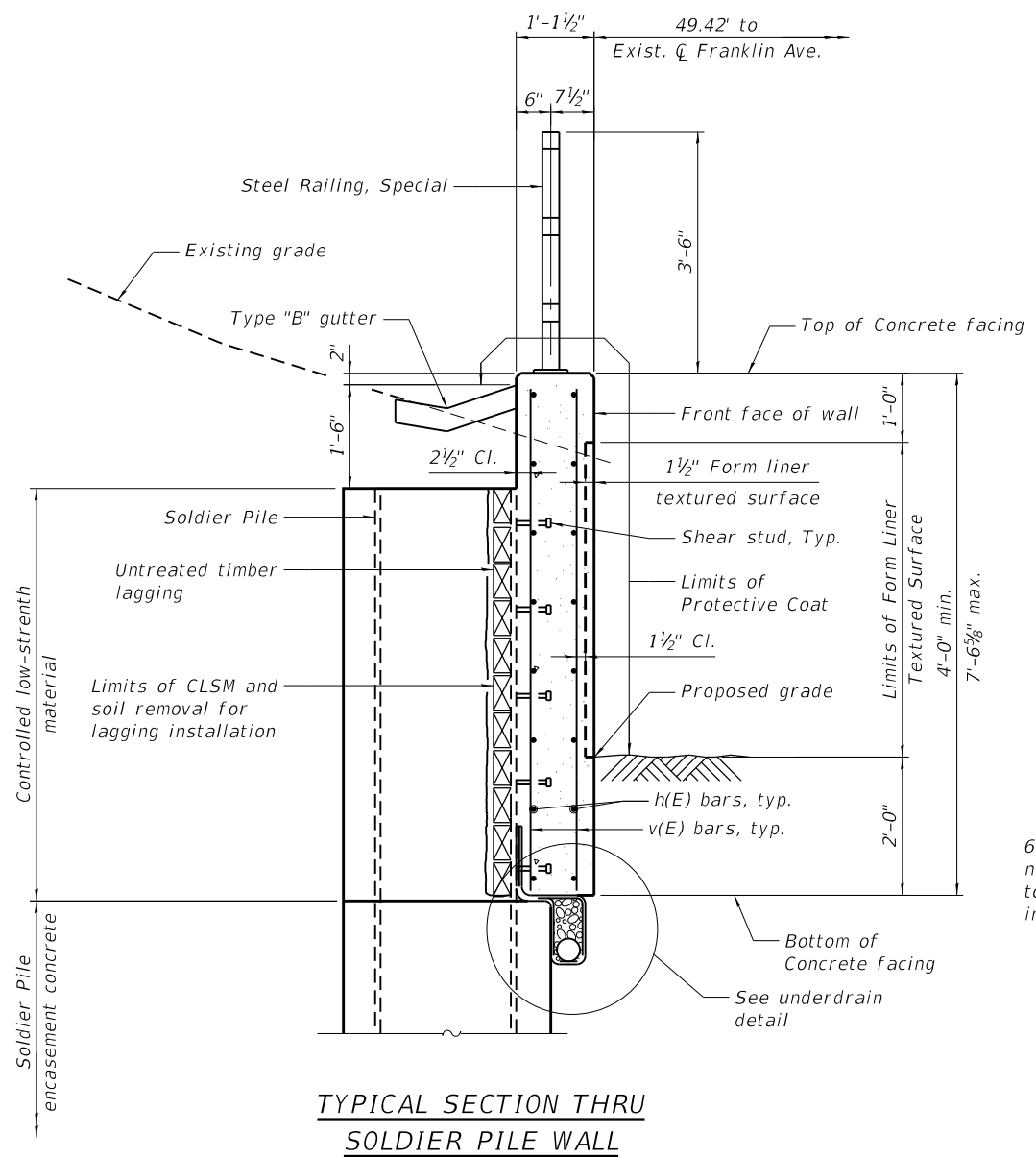
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION & DETAILS 1
SOLDIER PILE WALL UNDER I-294

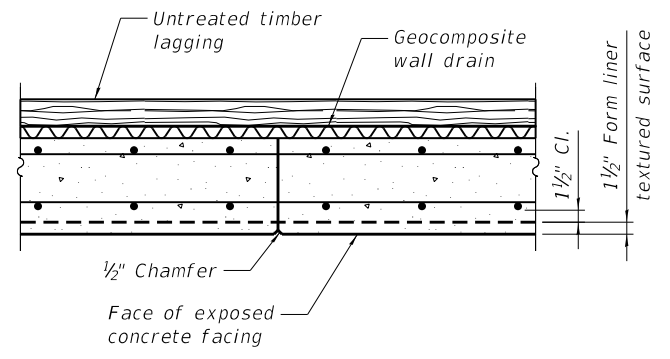
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				

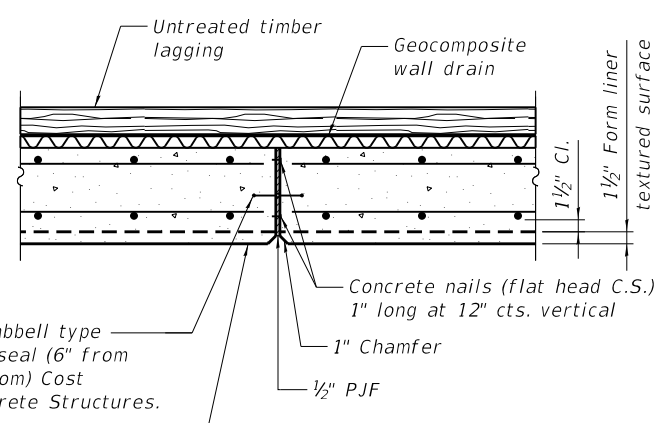
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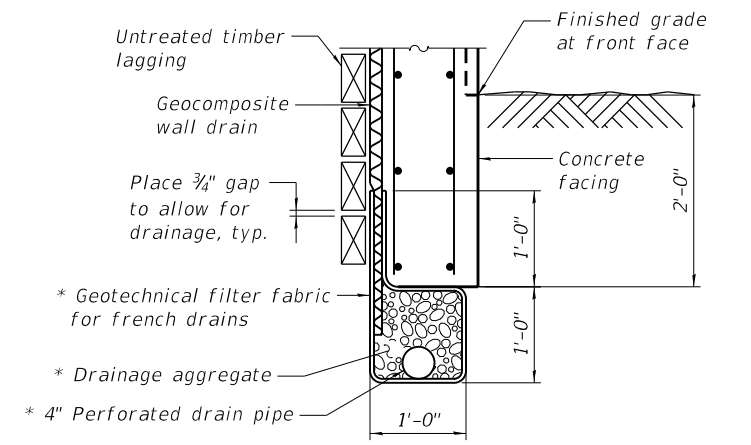
TYPICAL SECTION THRU SOLDIER PILE WALL



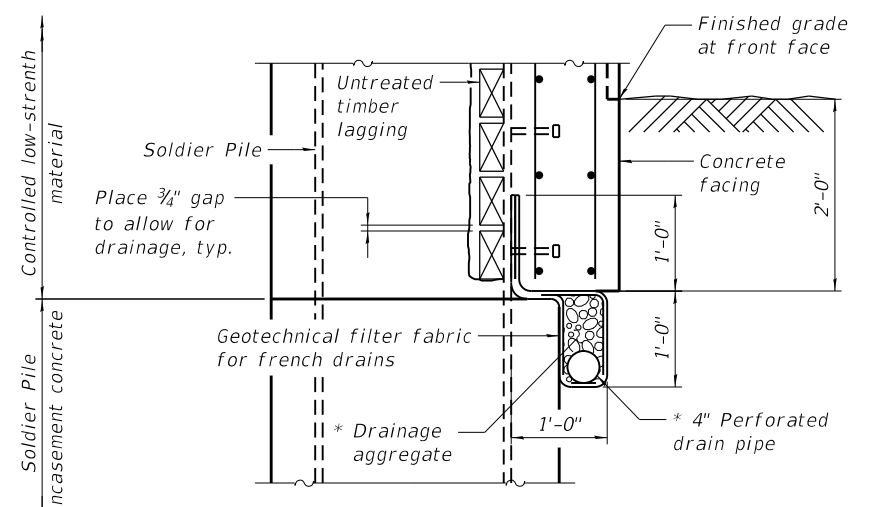
CONSTRUCTION JOINT



EXPANSION JOINT



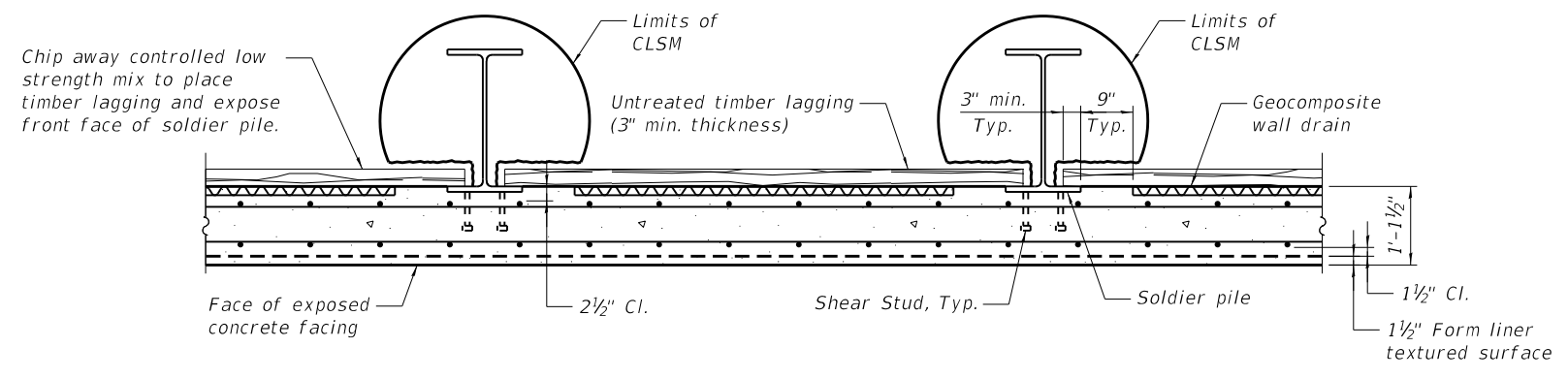
BETWEEN SOLDIER PILES



AT SOLDIER PILES

UNDERDRAIN DETAILS

* Included in the cost of Pipe Underdrains for Structures.



HORIZONTAL SECTION THRU SOLDIER PILE WALL



FORM LINER TEXTURED SURFACE DETAIL
 Max. stone 16" x 29"
 Min. stone 5" x 8"

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

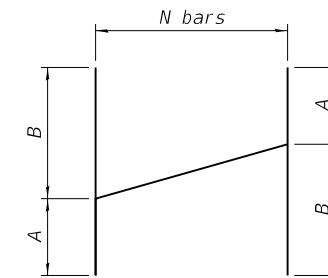
**SECTION & DETAILS 2
 SOLDIER PILE WALL UNDER I-294**

SHEET S-22 OF S-26 SHEETS

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CONTRACT NO. 61G76				
ILLINOIS		FED. AID PROJECT		

SOLDIER PILE SCHEDULE

Soldier Pile Data						Conc. Encasement Data		
Pile No.	Size	Top Elev.	Bott. Elev.	Length (ft)	No. of Studs	Dia. (in)	Top Elev.	Length (ft)
P101	W24x131	650.80	630.80	20.00	8	36	648.02	17.22
P102	W24x131	651.71	631.71	20.00	8	36	648.04	16.33
P103	W24x131	652.62	632.62	20.00	10	36	648.06	15.44
P104	W24x131	653.12	631.12	22.00	12	36	648.08	16.96
P105	W24x131	653.21	631.21	22.00	12	36	648.10	16.89
P106	W24x131	653.31	631.31	22.00	12	36	648.12	16.82
P107	W24x131	653.40	630.40	23.00	12	36	648.14	17.74
P108	W24x131	653.50	630.50	23.00	12	36	648.17	17.67
P109	W24x131	653.59	630.59	23.00	12	36	648.19	17.59
P110	W24x131	653.69	629.69	24.00	12	36	648.21	18.52
P111	W24x131	653.78	629.78	24.00	12	36	648.23	18.45
P112	W24x131	653.87	629.87	24.00	12	36	648.25	18.37
P113	W24x131	653.97	628.97	25.00	12	36	648.27	19.30
P114	W24x131	654.06	629.06	25.00	14	36	648.29	19.23
P115	W24x131	654.16	629.16	25.00	14	36	648.31	19.15
P116	W24x131	654.20	627.20	27.00	14	36	648.33	21.13
P117	W24x131	654.20	627.20	27.00	14	36	648.36	21.15
P118	W24x131	654.20	627.20	27.00	14	36	648.38	21.18
P119	W24x131	654.20	627.20	27.00	14	36	648.41	21.20
P120	W24x131	654.20	627.20	27.00	14	36	648.43	21.23
P121	W24x131	654.20	627.20	27.00	12	36	648.46	21.25
P122	W24x131	654.20	629.20	25.00	12	36	648.48	19.28
P123	W24x131	654.20	629.20	25.00	12	36	648.51	19.30
P124	W24x131	654.20	629.20	25.00	12	36	648.53	19.33
P125	W24x131	654.20	629.20	25.00	12	36	648.56	19.35
P126	W24x131	654.20	629.20	25.00	12	36	648.58	19.38
P127	W24x131	654.20	629.20	25.00	12	36	648.61	19.40
P128	W24x131	653.94	630.94	23.00	12	36	648.63	17.69
P129	W24x131	653.43	630.43	23.00	12	36	648.65	18.23
P130	W24x131	652.91	629.91	23.00	10	36	648.68	18.77
P131	W24x131	652.39	634.39	18.00	8	36	648.70	14.31
P132	W24x131	651.87	633.87	18.00	8	36	648.72	14.85
P133	W24x131	651.35	633.35	18.00	6	36	648.75	15.40



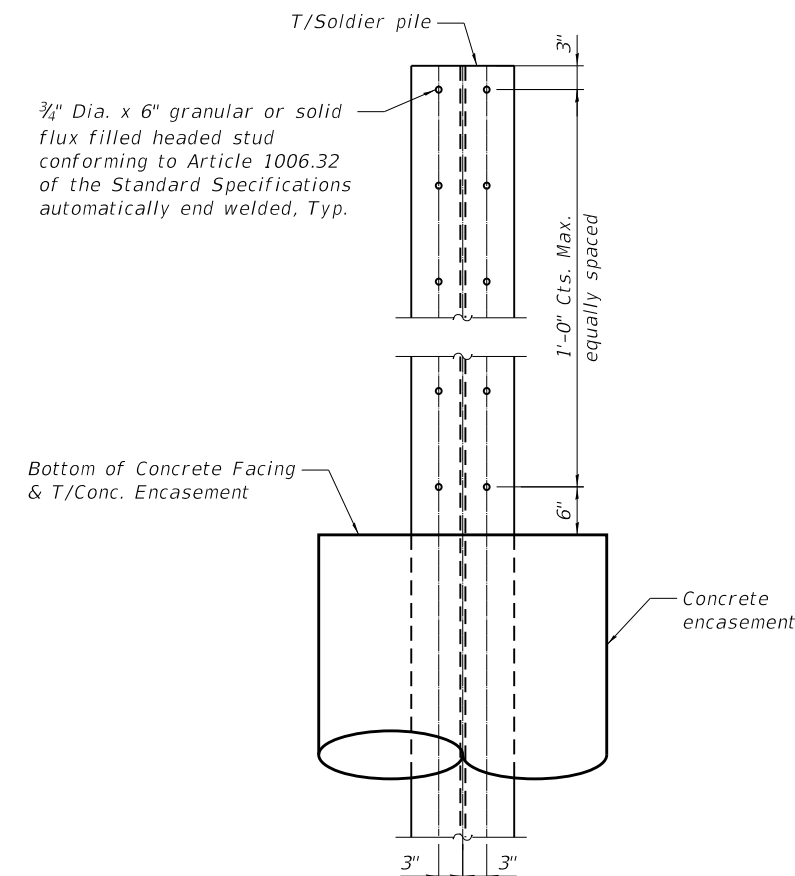
Bar	A	B	N
v51(E)	3'-9"	6'-5"	25
v52(E)	6'-5"	6'-7"	25
v53(E)	6'-7"	6'-10"	25
v54(E)	6'-10"	7'-1"	25
v55(E)	7'-1"	7'-3"	25
v60(E)	5'-4"	7'-0"	29
v61(E)	3'-9"	5'-4"	29

BARS v51(E) thru v55(E),
v60(E) and v61(E)

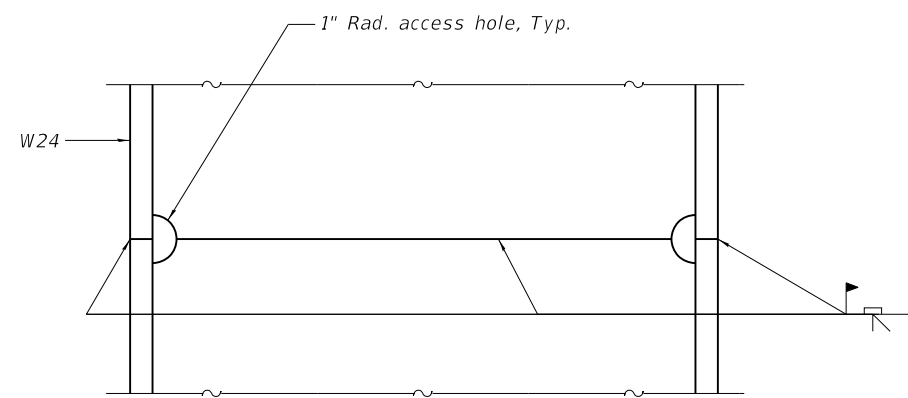
BAR CUTTING DIAGRAM

BAR LIST

Bar	No.	Size	Length	Shape
h51(E)	44	#6	24'-9"	—
h52(E)	66	#6	29'-5"	—
h53(E)	66	#6	34'-5"	—
h54(E)	22	#6	29'-9"	—
h55(E)	22	#6	28'-3"	—
h56(E)	22	#6	32'-11"	—
v51(E)	25	#5	10'-2"	—
v52(E)	25	#5	13'-0"	—
v53(E)	25	#5	13'-5"	—
v54(E)	25	#5	13'-11"	—
v55(E)	25	#5	14'-4"	—
v56(E)	60	#5	7'-3"	—
v57(E)	60	#5	7'-2"	—
v58(E)	60	#5	7'-1"	—
v59(E)	60	#5	7'-0"	—
v60(E)	29	#5	12'-4"	—
v61(E)	29	#5	9'-1"	—



SHEAR STUD DETAIL



SOLDIER PILE WELDED SPLICE DETAIL (OPTIONAL)

(See general note 7 on sheet S-17)

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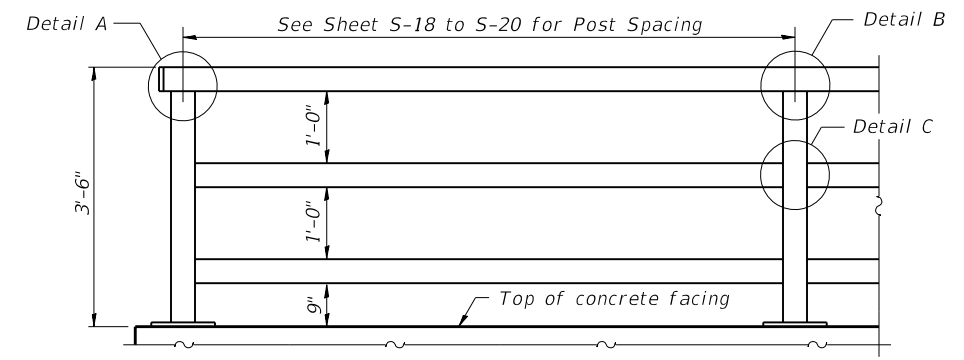
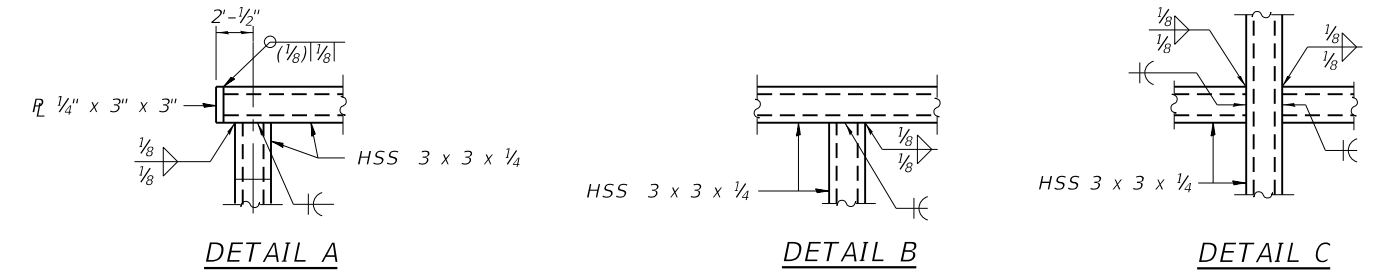
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SECTION & DETAILS 3
SOLDIER PILE WALL UNDER I-294**

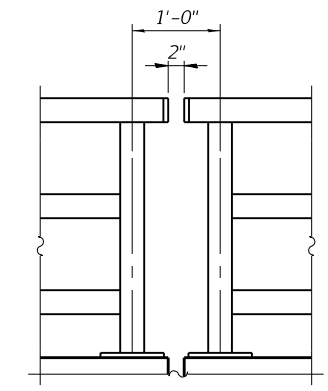
SHEET S-23 OF S-26 SHEETS

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ILLINOIS			CONTRACT NO. 61G76	
FED. AID PROJECT				

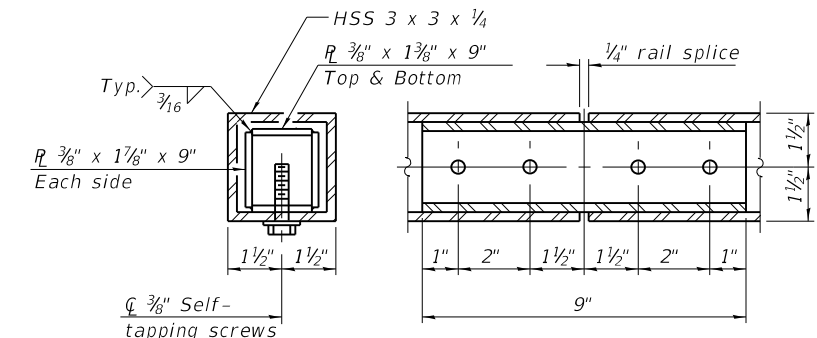
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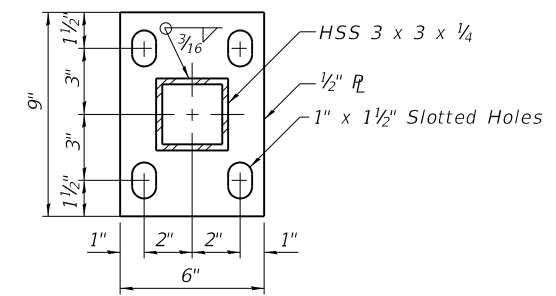
STEEL RAILING, SPECIAL ELEVATION



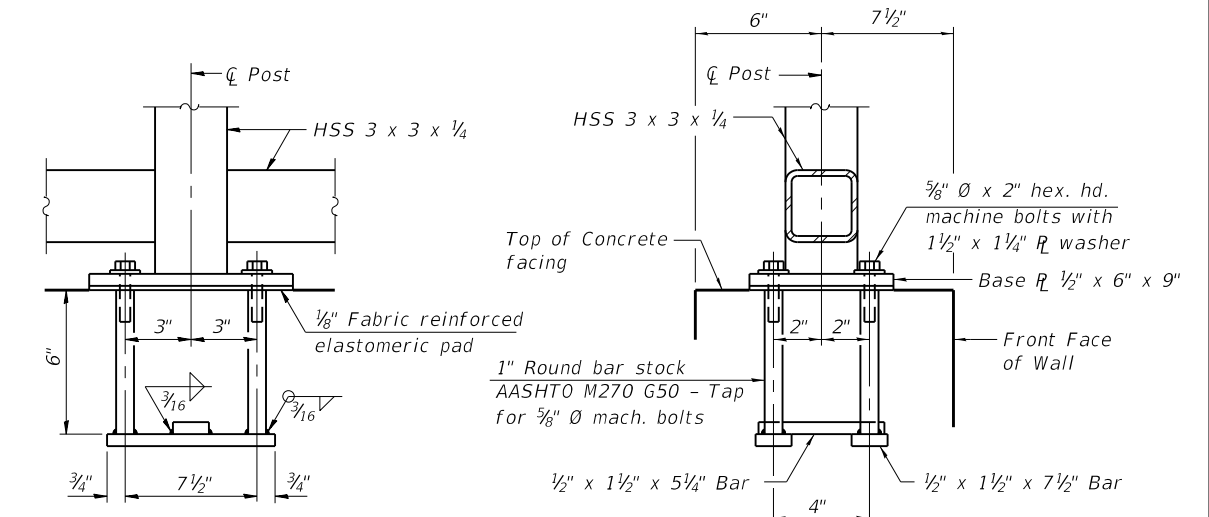
STEEL RAILING, SPECIAL ELEVATION AT EXPANSION/CONSTRUCTION JOINT



RAIL SPLICE (Optional)



BASE PLATE



ANCHOR BOLT DETAILS

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

NOTES:

- All steel rail elements including all anchors and fasteners shall be galvanized according to Article 509.05 of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Special	Foot	253'-0"



GSI Job No. 19083

SOIL BORING LOG

Page 2 of 2

Date 7/13/91

ROUTE 3533 DESCRIPTION Tri-State Tollway Over Bensenville Yard LOGGED BY MTA

SECTION 17-00083-00-PV LOCATION SE 1/4, SEC. 20, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

Table with columns: STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil properties (D, B, U, M, L, S, T, W, H, S, Qu, T).

Main soil log table with depth (ft) on the y-axis and soil descriptions: CLAYEY SILT-brown & gray-very dense, SILTY CLAY-dark brown, gray & black-stiff (Fill), SILTY LOAM-brown & gray-very loose, CLAY LOAM-brown & gray-very stiff.

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), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)



GSI Job No. 19083

SOIL BORING LOG

Page 1 of 1

Date 11/7/19

ROUTE 3533 DESCRIPTION Franklin Avenue Reconstruction From Acorn Lane to Mannheim Road LOGGED BY MM

SECTION 17-00083-00-PV LOCATION SE 1/4, SEC. 20, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

Table with columns: STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil properties (D, B, U, M, L, S, T, W, H, S, Qu, T).

Main soil log table with depth (ft) on the y-axis and soil descriptions: 10.0" ASPHALT, SILTY CLAY-dark brown, gray & black-stiff (Fill), SILTY LOAM-brown & gray-very loose, CLAY LOAM-brown & gray-very stiff.

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), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)



GSI Job No. 19083

SOIL BORING LOG

Page 1 of 1

Date 10/22/19

ROUTE 3533 DESCRIPTION Franklin Avenue Reconstruction From Acorn Lane to Mannheim Road LOGGED BY TC

SECTION 17-00083-00-PV LOCATION SE 1/4, SEC. 20, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

Table with columns: STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil properties (D, B, U, M, L, S, T, W, H, S, Qu, T).

Main soil log table with depth (ft) on the y-axis and soil descriptions: SAND, GRAVEL & STONE-black, CLAY LOAM with Stone-dark brown & gray spotted black-loose to medium dense (Fill), SILTY CLAY-brown & gray-stiff.

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), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)

MODEL: Default FILE NAME: p:\1\exp-pw.bentley.com\exp-pw-01\Documents\Projects\CHI00244802-A11800 CAD Design\802 Silver Creek Culvert Reconstruction\802.10 Structural\Sheet\FP22218-sh-bbox-002

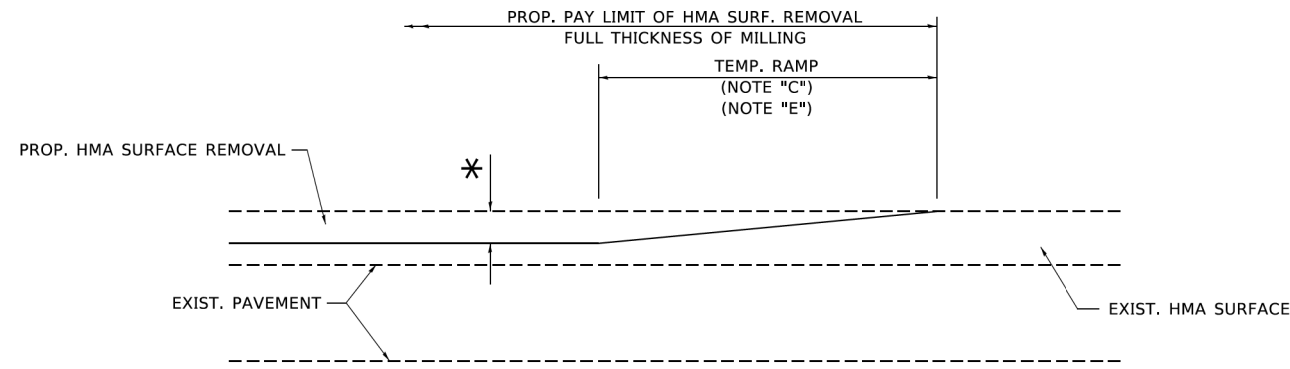
exp U.S. Services Inc. logo and contact information.

User Name, Plot Scale, Plot Date, Designed, Checked, Drawn, Checked, Revised, Revised, Revised, Revised.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 2 SOLDIER PILE WALL UNDER I-294

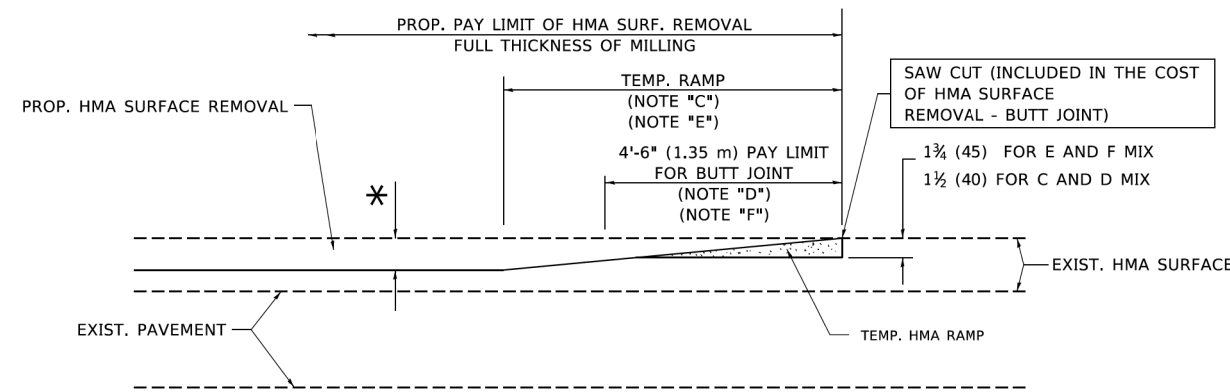
F.A.U. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. 61G76, ILLINOIS, FED. AID PROJECT.



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

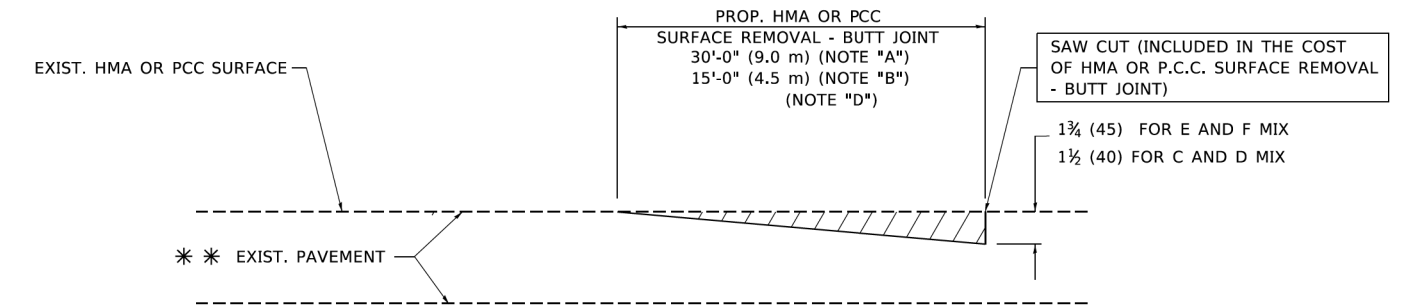


HMA CONSTRUCTED TEMPORARY RAMP

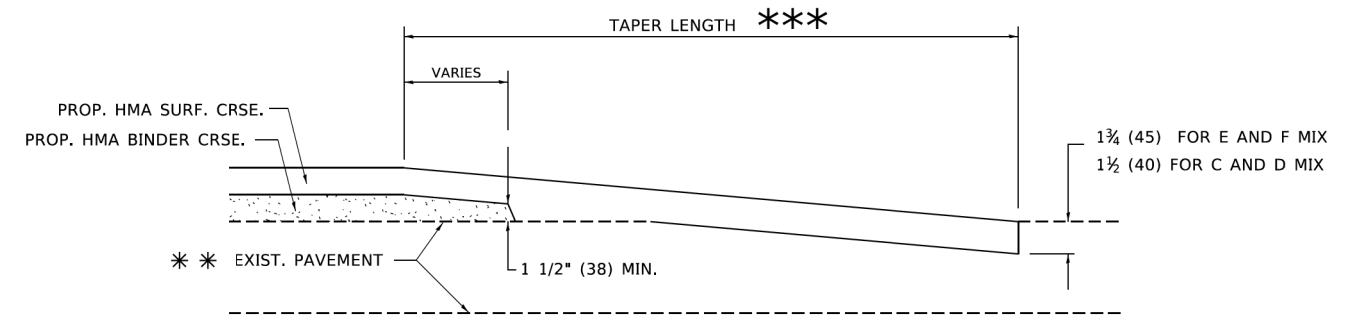
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

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.

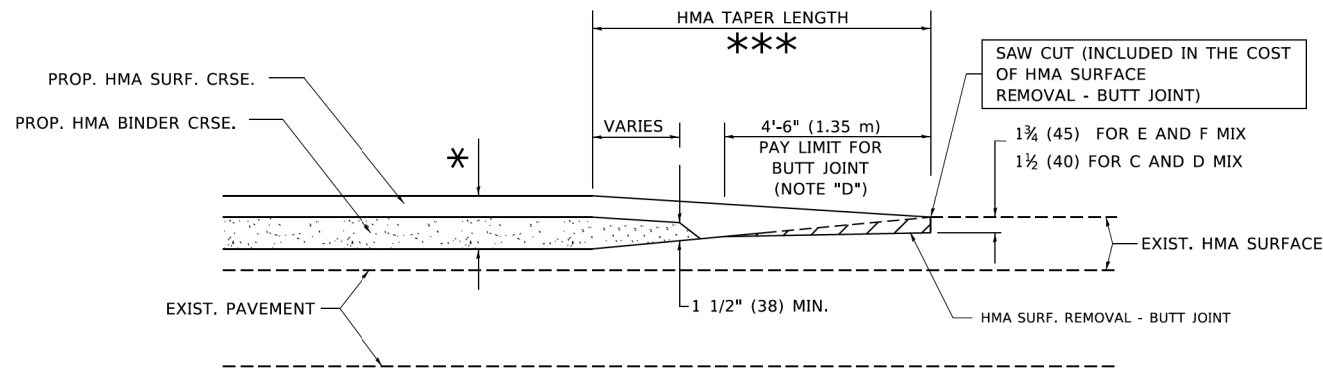
NOTES

- A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- 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'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. 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

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".

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

MODEL: Default
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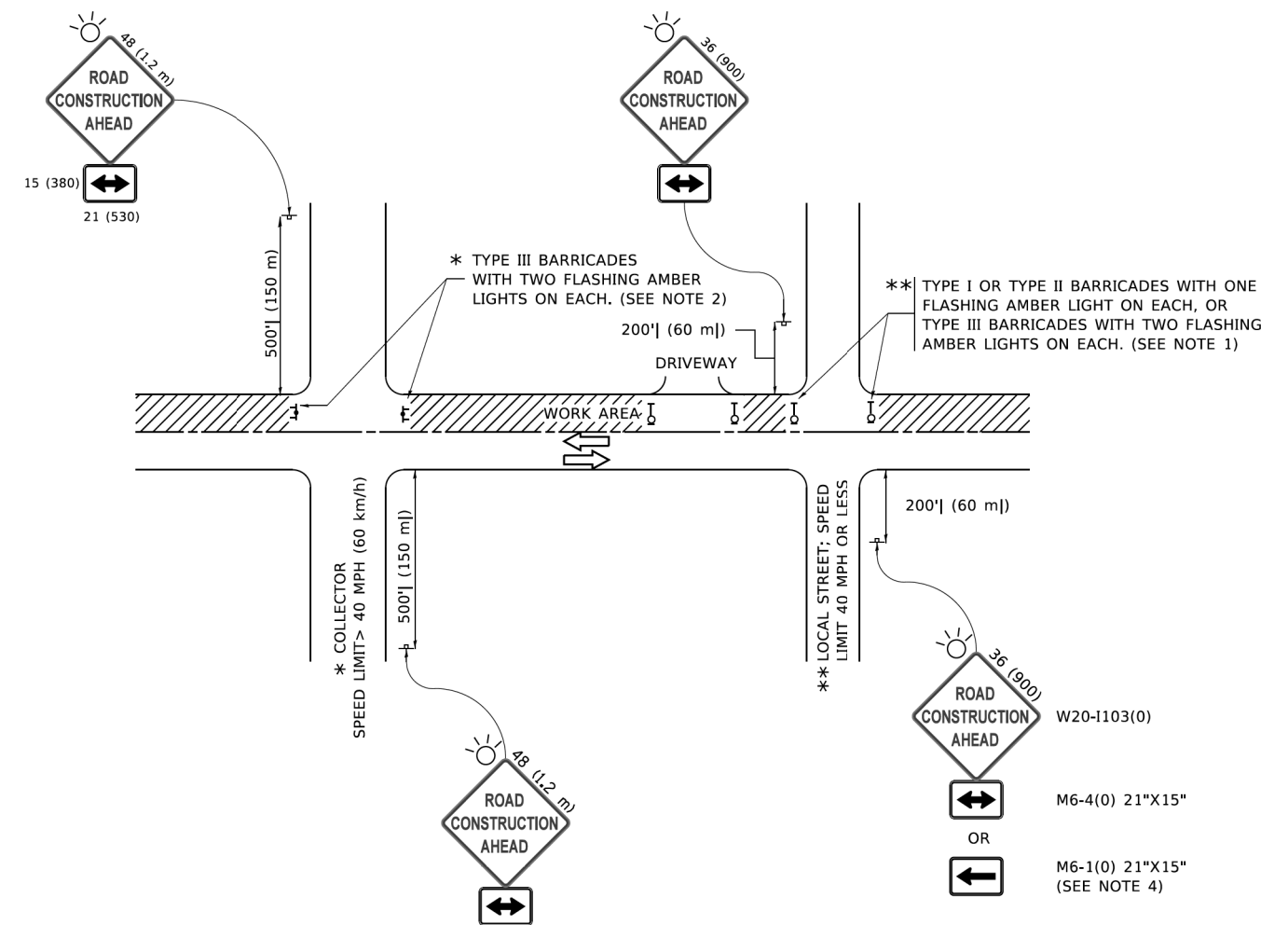
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	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 3/27/2019	DATE - 06-13-90	REVISED - R.BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			78	65
BD400-05 BD32		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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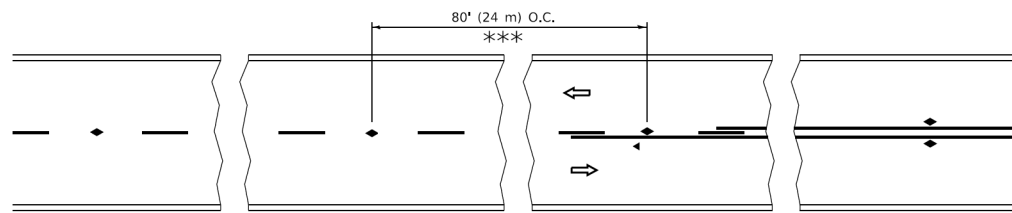
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PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

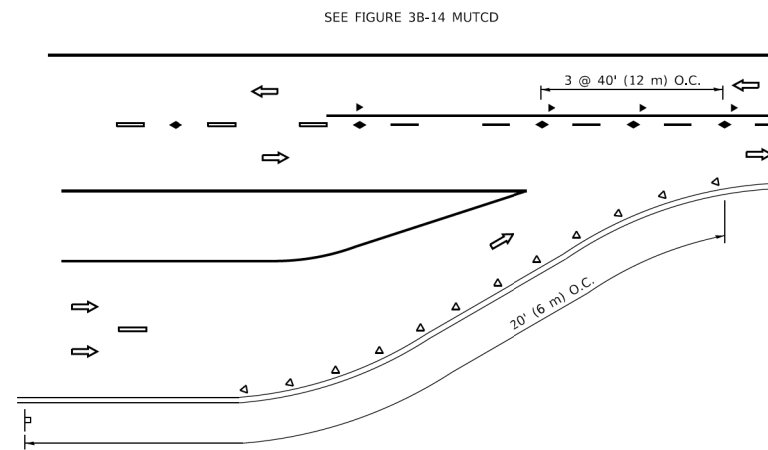
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

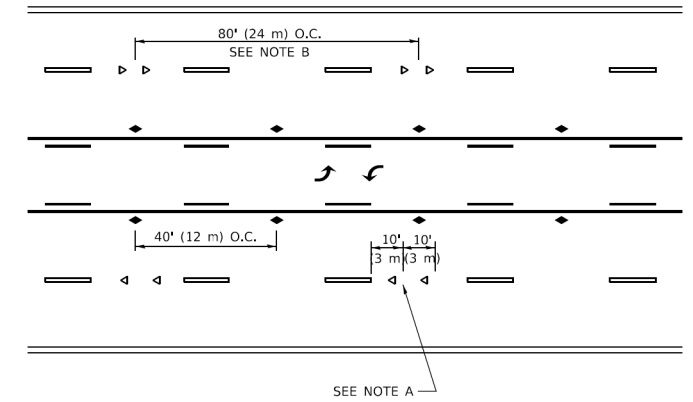


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

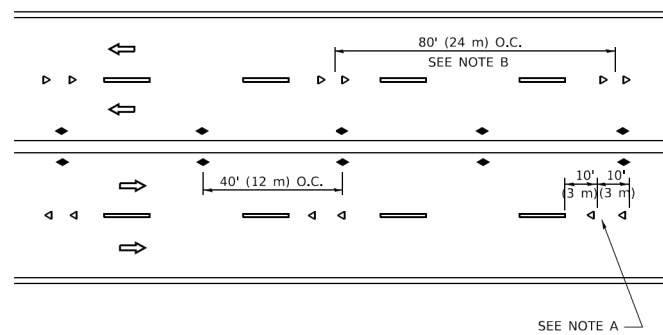
TWO-LANE/TWO-WAY



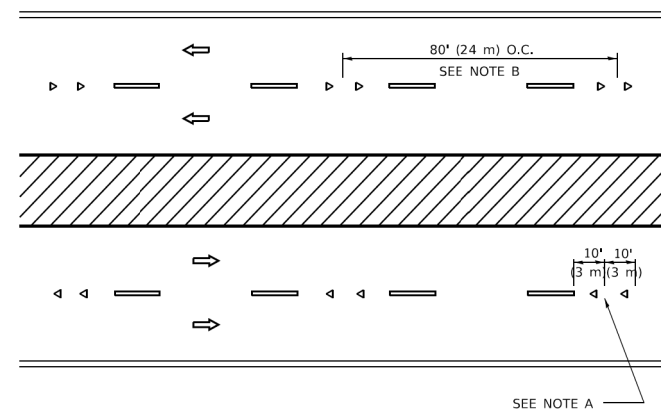
LANE REDUCTION TRANSITION



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

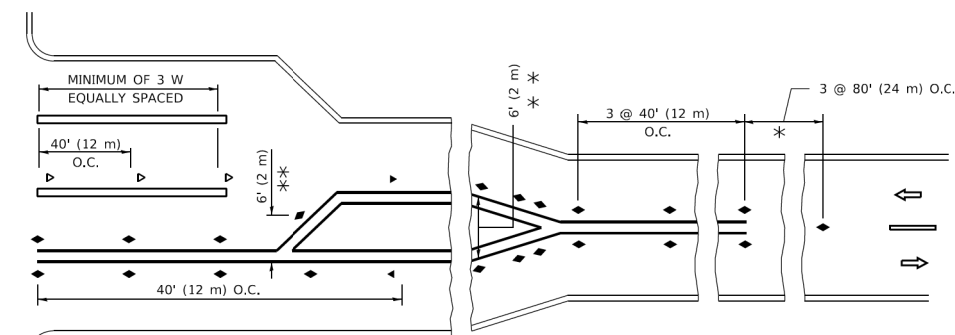
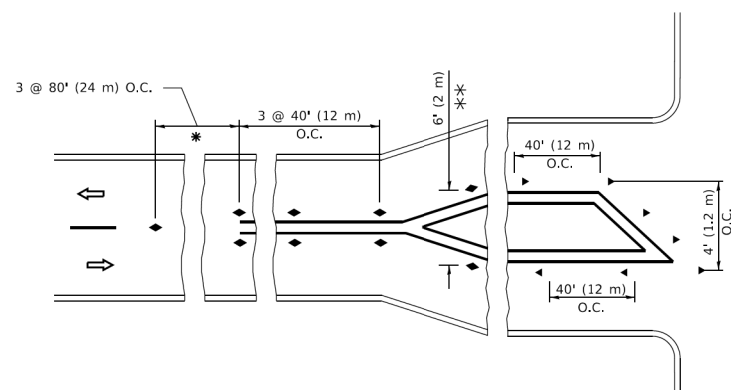
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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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PLOT SCALE = 50,0000' / 1"	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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			78	67
TC-11			CONTRACT NO.	
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

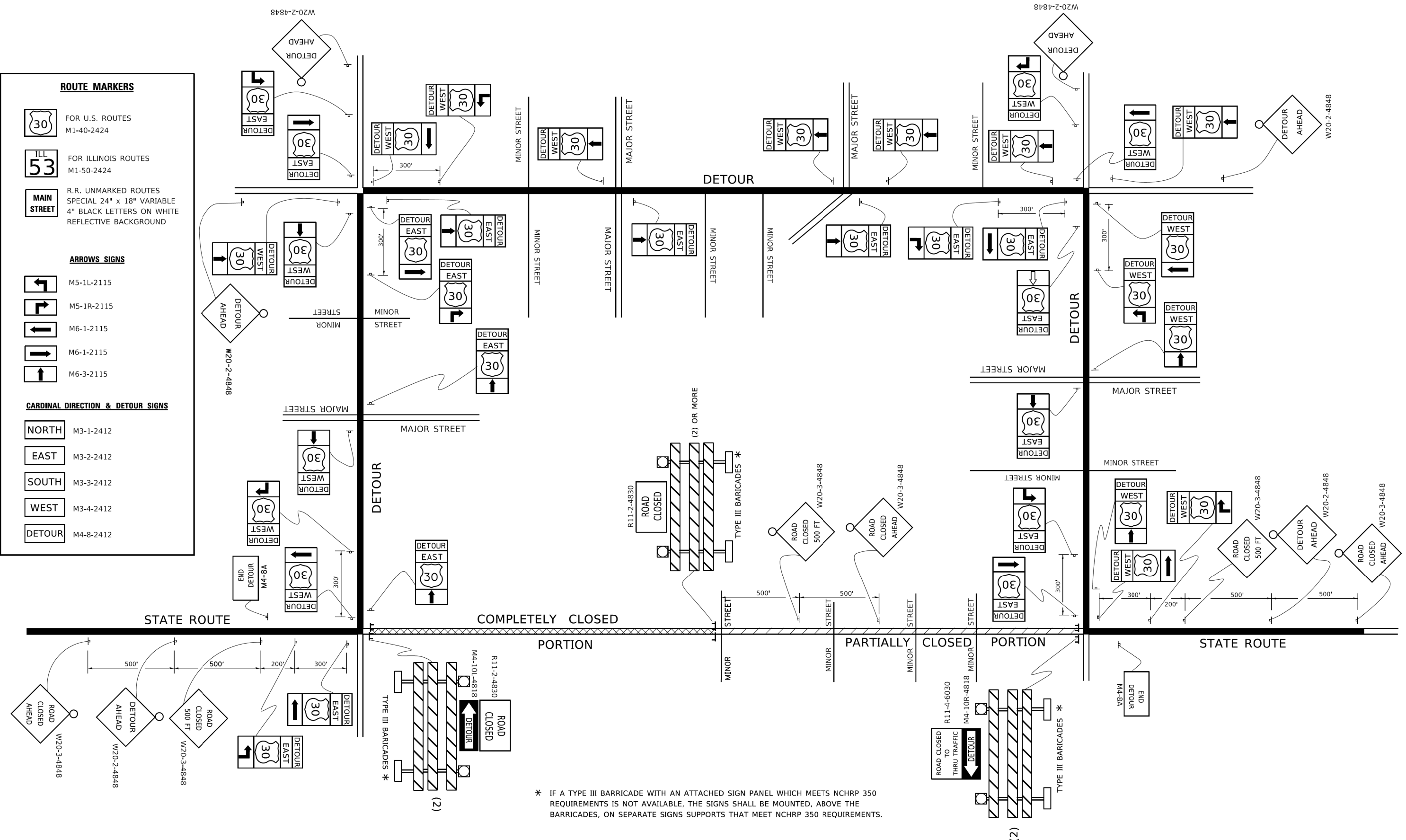
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



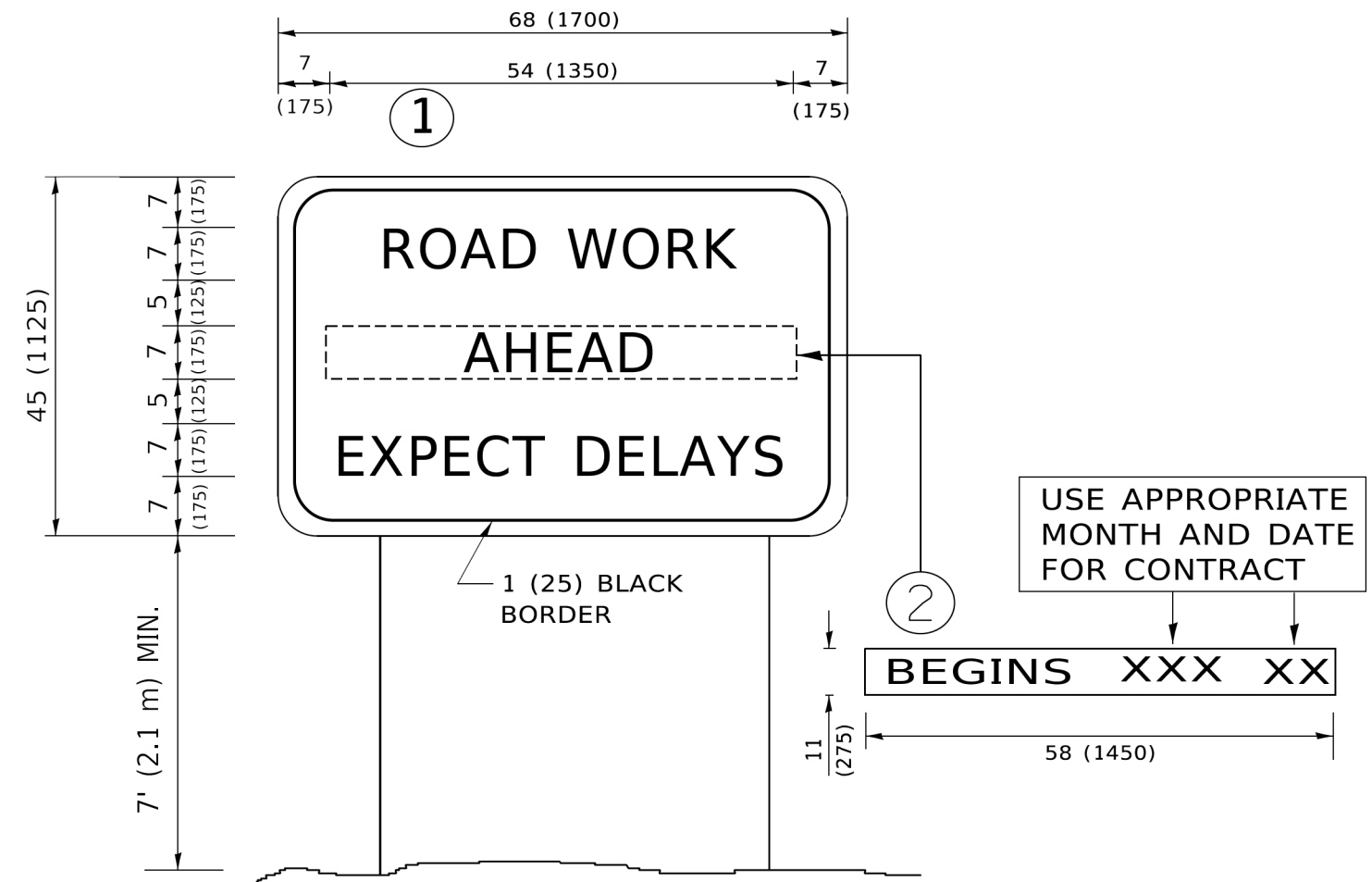
* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

USER NAME = footemj	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50,0000' / 1/4"	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-21		78	69
ILLINOIS FED. AID PROJECT			CONTRACT NO.	



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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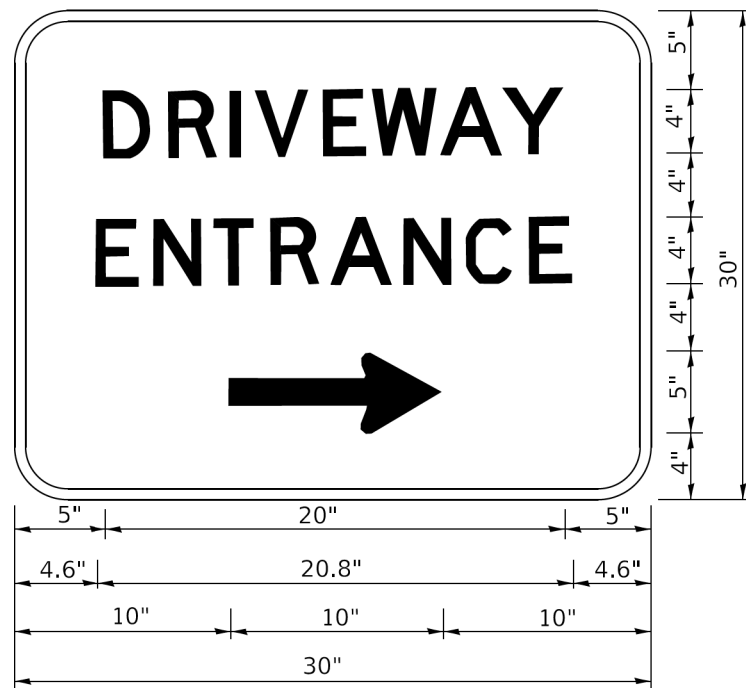
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PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			78	70
TC-22			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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	DRAWN -	REVISED -
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

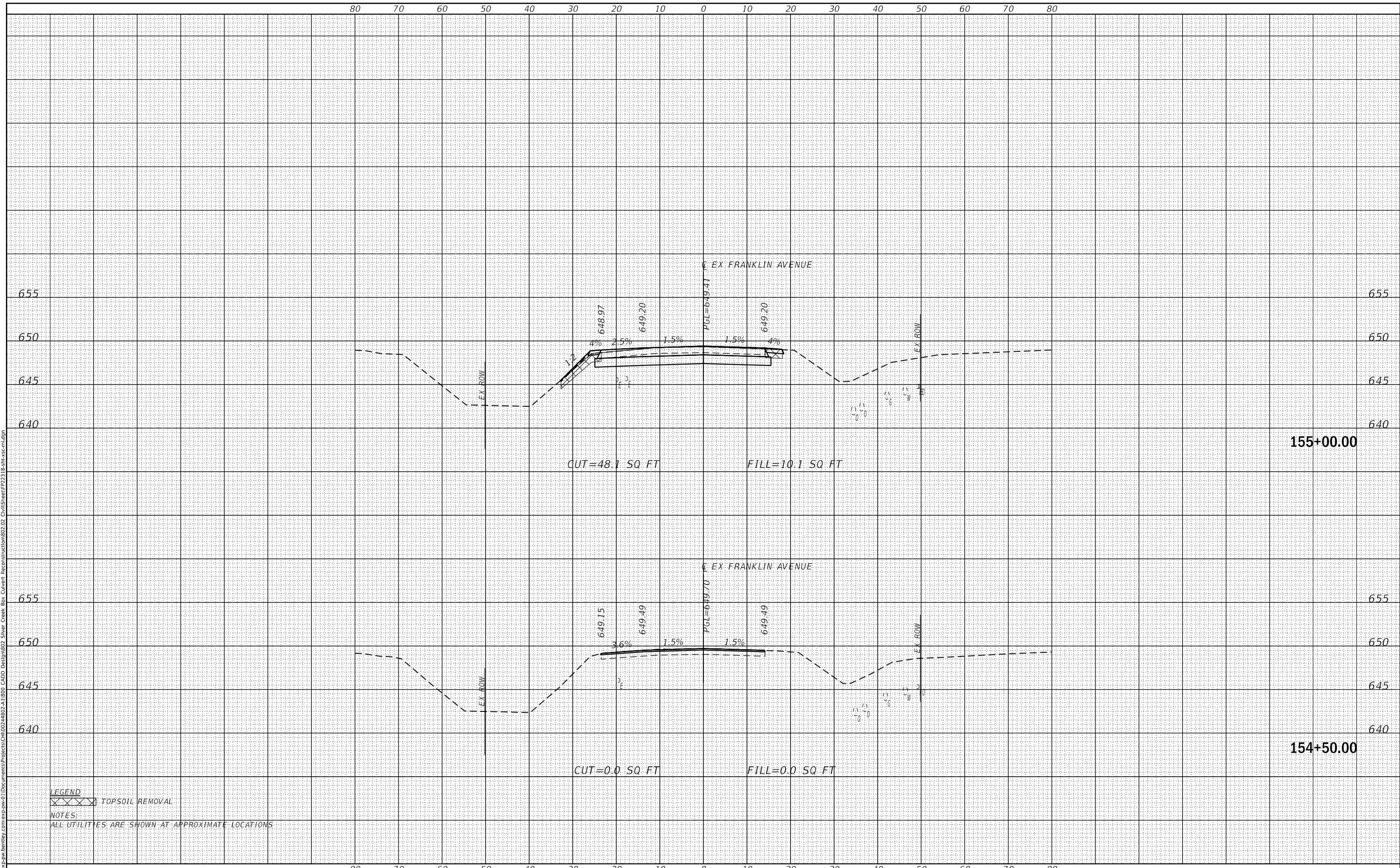
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			78	71
TC-26			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

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

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

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LEGEND
 [Cross-hatched symbol] TOPSOIL REMOVAL
NOTES:
 ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

exp U.S. Services Inc.
 Chicago, IL
 BUSINESS-EARTH & ENVIRONMENT-ENERGY
 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

USER NAME = zirona	DESIGNED - AG	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - AG	REVISED -
PLOT DATE = 10/28/2020	CHECKED - PB	REVISED -
	DATE - 10/02/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FRANKLIN AVENUE CROSS-SECTIONS

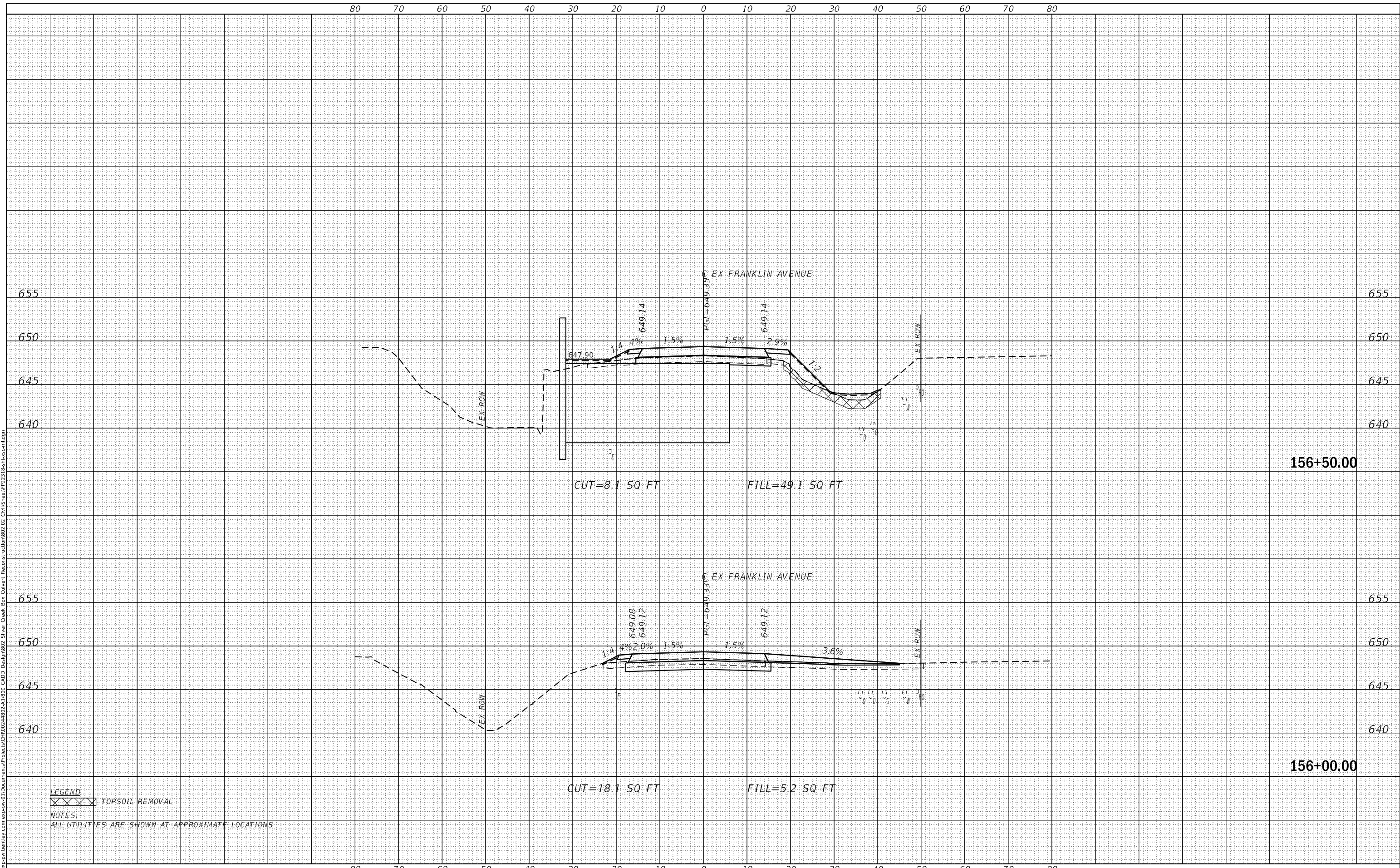
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	72
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				

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

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

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LEGEND
 [Hatched Box] TOPSOIL REMOVAL
NOTES:
 ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

USER NAME = zirona	DESIGNED - AG	REVISED -
	DRAWN - AG	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - PB	REVISED -
PLOT DATE = 10/28/2020	DATE - 10/02/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FRANKLIN AVENUE CROSS-SECTIONS

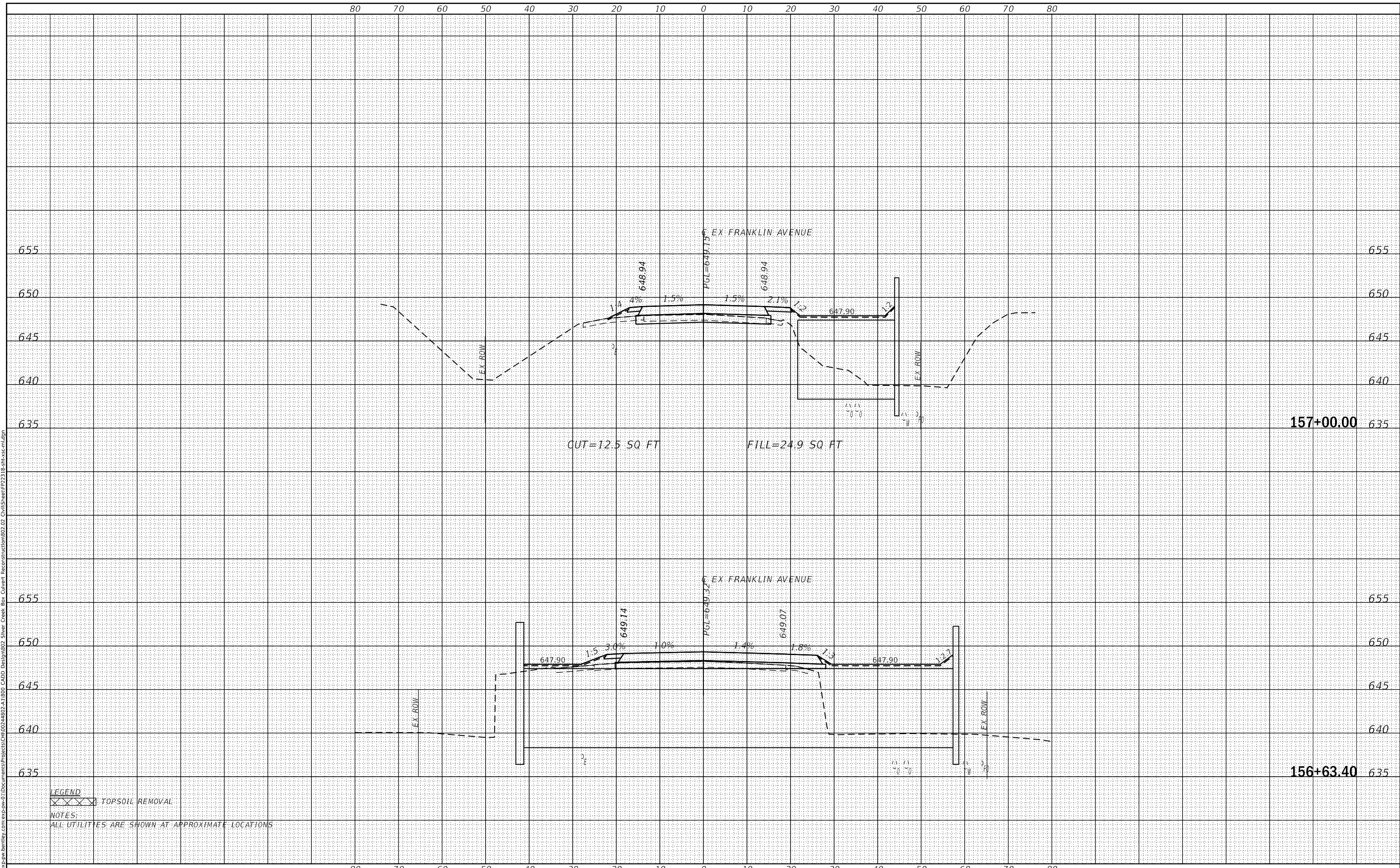
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	74
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				

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

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

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LEGEND
 [Symbol] TOPSOIL REMOVAL
NOTES:
 ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

exp U.S. Services Inc.
 Chicago, IL
 BUSINESS-EARTH & ENVIRONMENT-ENERGY
 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

USER NAME = zirona	DESIGNED - AG	REVISED -
	DRAWN - AG	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - PB	REVISED -
PLOT DATE = 10/28/2020	DATE - 10/02/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FRANKLIN AVENUE CROSS-SECTIONS

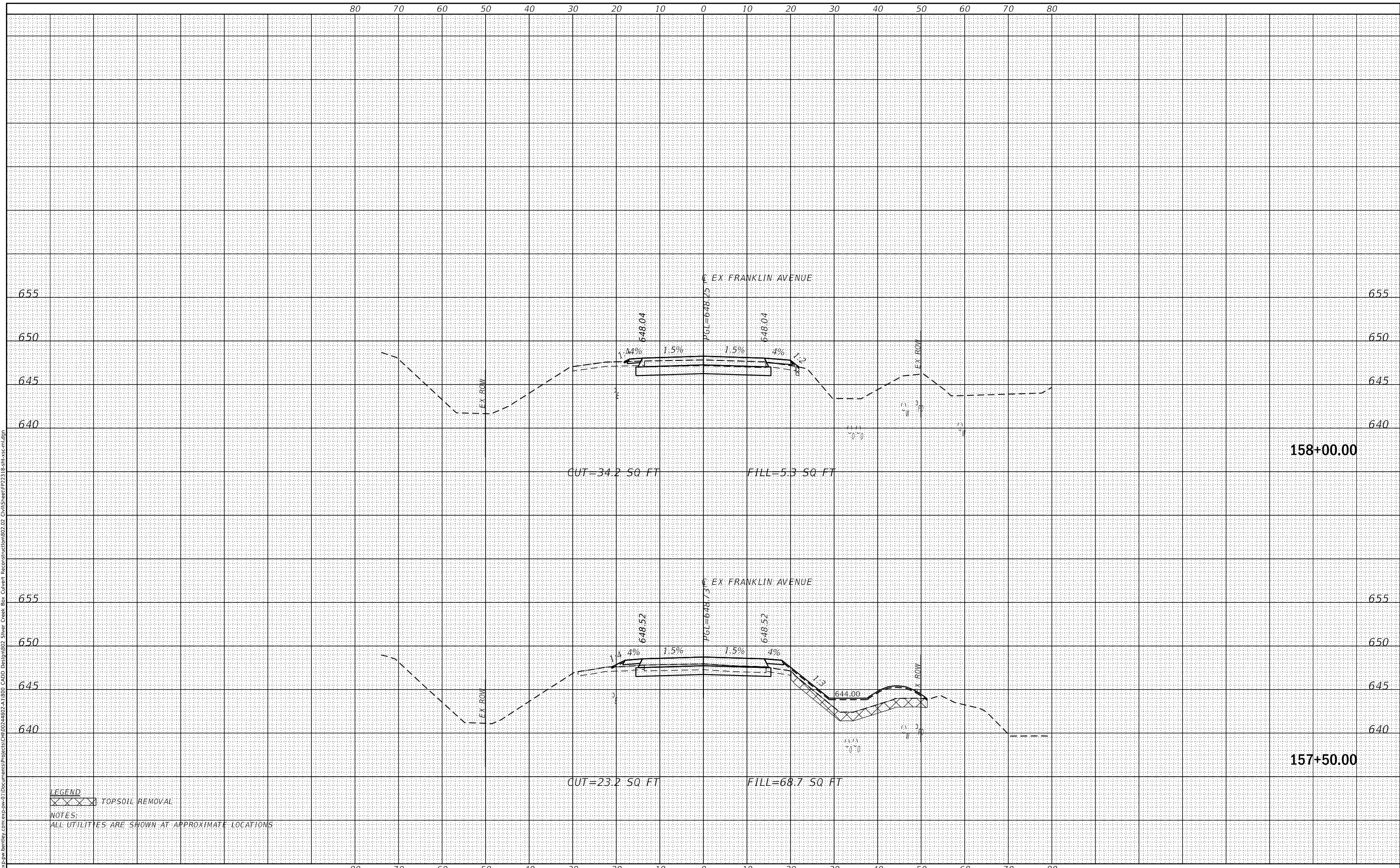
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	75
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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LEGEND
 [Cross-hatched box] TOPSOIL REMOVAL

NOTES:
 ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

USER NAME = zirona	DESIGNED - AG	REVISED -
	DRAWN - AG	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - PB	REVISED -
PLOT DATE = 10/28/2020	DATE - 10/02/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FRANKLIN AVENUE CROSS-SECTIONS

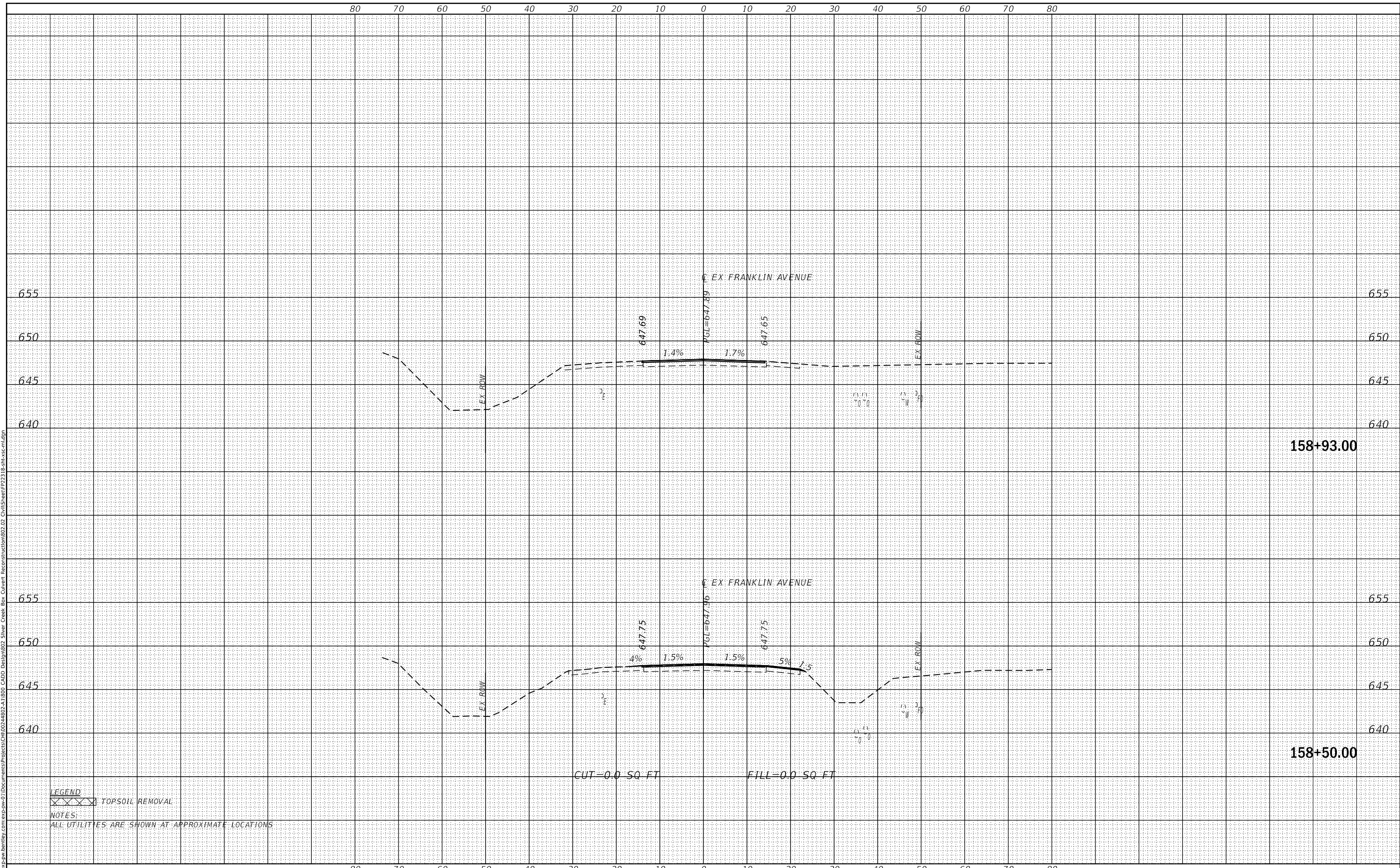
SCALE: SHEET OF SHEETS STA. 157+50.00 TO STA. 158+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	76
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
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LEGEND
 [Symbol] TOPSOIL REMOVAL

NOTES:
 ALL UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS

exp U.S. Services Inc.
 Chicago, IL
 BUSINESS-EARTH & ENVIRONMENT-ENERGY
 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

USER NAME = zirona	DESIGNED - AG	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - AG	REVISED -
PLOT DATE = 10/28/2020	CHECKED - PB	REVISED -
	DATE - 10/02/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FRANKLIN AVENUE CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 158+50.00 TO STA. 158+93.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	17-00083-01-BR	COOK	78	77
CONTRACT NO. 61G76				
ILLINOIS FED. AID PROJECT				

