

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				COOK	COOK	WILL	DUPAGE
				STATE 100%	STATE 100%	STATE 100%	STATE 100%
				175TH ST	DIXIE HWY	IL RTE 113	IL RTE 53
				ROADWAY	ROADWAY	ROADWAY	ROADWAY
20101100	TREE TRUNK PROTECTION	EACH	1	0	0	0	1
20200100	EARTH EXCAVATION	CU YD	1,749 <del>2,073</del>	341 <del>665</del>	736	500	172
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	89 <del>161</del>	29 <del>101</del>	60	0	0
20400800	FURNISHED EXCAVATION	CU YD	102	0	0	0	102
20700220	POROUS GRANULAR EMBANKMENT	CU YD	160	0	0	35	125
20800150	TRENCH BACKFILL	CU YD	232 <del>203</del>	0 <del>51</del>	66	149	17
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	485 <del>585</del>	17 <del>117</del>	97	0	371
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,644 <del>3,129</del>	661 <del>2,146</del>	983	0	0
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1,046	0	0	0	1,046
25000210	SEEDING, CLASS 2A	ACRE	1.3 <del>2.3</del>	0 <del>1</del>	1	0	0.3
25000312	SEEDING, CLASS 4A	ACRE	1	0	0	1	0
25000314	SEEDING, CLASS 4B	ACRE	1	0	0	1	0
25000322	SEEDING, CLASS 5A	ACRE	1	0	0	1	0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	27	0	0	0	27
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	27	0	0	0	27
25100630	EROSION CONTROL BLANKET	SQ YD	1,638 <del>3,123</del>	0 <del>1,485</del>	185	0	1,453

\*SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				COOK	COOK	WILL	DUPAGE
				STATE 100%	STATE 100%	STATE 100%	STATE 100%
				175TH ST	DIXIE HWY	IL RTE 113	IL RTE 53
				ROADWAY	ROADWAY	ROADWAY	ROADWAY
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2,975	0	0	2,975	0
25100900	TURF REINFORCEMENT MAT	SQ YD	728	0	0	0	728
25200110	SODDING, SALT TOLERANT	SQ YD	1,459	661	798	0	0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	31	0	0	0	31
28000305	TEMPORARY DITCH CHECKS	FOOT	327 <del>363</del>	18 <del>54</del>	0	234	75
28000400	PERIMETER EROSION BARRIER	FOOT	2,261 <del>4,130</del>	0 <del>1,869</del>	488	1,773	0
28000500	INLET AND PIPE PROTECTION	EACH	21	9	10	0	2
28000510	INLET FILTERS	EACH	9	0	0	0	9
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	1,721 <del>3,206</del>	0 <del>1,485</del>	983	0	738
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	417	0	0	417	0
28100107	STONE RIPRAP, CLASS A4	SQ YD	33	0	0	0	33
28200200	FILTER FABRIC	SQ YD	33	0	0	0	33
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	1,200	447	565	105	83
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	2,277 <del>3,763</del>	691 <del>1,177</del>	1,586	0	0

\*SPECIALTY ITEM

MODEL: #40DELRNAMES  
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

VARIOUS LOCATIONS  
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2021-055-DR	VARIOUS	125	4
			CONTRACT NO. 62N86	
ILLINOIS FED. AID PROJECT				

1 REVISED SHEET 4/13/2023

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				COOK	COOK	WILL	DUPAGE
				STATE 100%	STATE 100%	STATE 100%	STATE 100%
				175TH ST	DIXIE HWY	IL RTE 113	IL RTE 53
				ROADWAY	ROADWAY	ROADWAY	ROADWAY
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	23	0	0	23	0
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	662	339	218	105	0
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	83	0	0	0	83
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,032	229	642	86	75
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	88	38	26	14	10
42001300	PROTECTIVE COAT	SQ YD	1,998 <del>2,484</del>	798 <del>1,284</del>	1,200	0	0
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	200	96	104	0	0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,214	100	2,114	0	0
42400800	DETECTABLE WARNINGS	SQ FT	20	0	20	0	0
44000100	PAVEMENT REMOVAL	SQ YD	219	61	158	0	0
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,124	308	187	544	85
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	192	14	22	0	156
44000600	SIDEWALK REMOVAL	SQ FT	2,236	102	2,134	0	0
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	11 <del>37</del>	0 <del>26</del>	11	0	0

\*SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				COOK	COOK	WILL	DUPAGE
				STATE 100%	STATE 100%	STATE 100%	STATE 100%
				175TH ST	DIXIE HWY	IL RTE 113	IL RTE 53
				ROADWAY	ROADWAY	ROADWAY	ROADWAY
48101498	AGGREGATE SHOULDERS, TYPE B 4"	SQ YD	564	426	138	0	0
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	733	0	733	0	0
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	773 <del>1,259</del>	412 <del>898</del>	361	0	0
50102400	CONCRETE REMOVAL	CU YD	2.4	0	0	0	2.4
50105220	PIPE CULVERT REMOVAL	FOOT	205	0	0	122	83
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	48	0	0	0	48
50800105	REINFORCEMENT BARS	POUND	1,260	0	0	0	1,260
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	0	0	2	0
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2	0	0	2	0
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	2	0	0	2	0
54001004	BOX CULVERT END SECTIONS, CULVERT NO. 4	EACH	2	0	0	2	0
54010302	PRECAST CONCRETE BOX CULVERTS 3' X 2'	FOOT	18	0	0	18	0
54010402	PRECAST CONCRETE BOX CULVERTS 4' X 2'	FOOT	42	0	0	42	0
542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	56	0	0	56	0

\*SPECIALTY ITEM

MODEL: 440001000  
FILE NAME: STELS



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

VARIOUS LOCATIONS  
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2021-055-DR	VARIOUS	125	5
CONTRACT NO. 62N86				
ILLINOIS FED. AID PROJECT				

REVISED SHEET 4/13/2023

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				COOK	COOK	WILL	DUPAGE
				STATE 100%	STATE 100%	STATE 100%	STATE 100%
				175TH ST	DIXIE HWY	IL RTE 113	IL RTE 53
				ROADWAY	ROADWAY	ROADWAY	ROADWAY
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	0	0	1	0
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	30	0	0	0	30
550A0330	STORM SEWERS, CLASS A, TYPE 2 10"	FOOT	429	0	429	0	0
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	30	0	30	0	0
55100500	STORM SEWER REMOVAL 12"	FOOT	7	0	0	0	7
<del>55200200</del>	<del>STORM SEWERS JACKED IN PLACE, 12"</del>	FOOT	<del>0</del>	<del>0</del>	<del>0</del>	<del>0</del>	<del>0</del>
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	41	0	0	41	0
60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	1	0	0	0	1
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	5	1	4	0	0
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	3	0	3	0	0
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	3	0	3	0	0
60236600	INLETS, TYPE A, TYPE 9 FRAME AND GRATE	EACH	1	0	1	0	0
60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	EACH	1	0	0	0	1
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	0	0	0	1

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				COOK	COOK	WILL	DUPAGE
				STATE 100%	STATE 100%	STATE 100%	STATE 100%
				175TH ST	DIXIE HWY	IL RTE 113	IL RTE 53
				ROADWAY	ROADWAY	ROADWAY	ROADWAY
60260500	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	1	1	0	0	0
60261000	INLETS TO BE ADJUSTED WITH NEW TYPE 8 GRATE	EACH	6	1	5	0	0
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	0	0	0	1
60500060	REMOVING INLETS	EACH	2	0	0	0	2
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	219	0	134	0	85
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	111	0	51	0	60
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	412.5	0	0	262.5	150
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	0	0	0	1
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	0	0	2	1
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2,073	665	736	500	172
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	0.25	0.25	0.25	0.25
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.25	0.25	0.25	0.25
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.25	0.25	0.25	0.25
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	32	8	8	8	8

\*SPECIALTY ITEM

\*SPECIALTY ITEM

MODEL - 4/NO/DEL/NAME/MS  
FILE NAME - SHEL13



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

VARIOUS LOCATIONS  
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 5 SHEETS STA. TO STA.

REVISED SHEET 4/13/2023	
F.A. RTE.	SECTION
VAR.	2021-055-DR
COUNTY	VARIOUS
TOTAL SHEETS	125
SHEET NO.	6
CONTRACT NO. 62N86	
ILLINOIS FED. AID PROJECT	

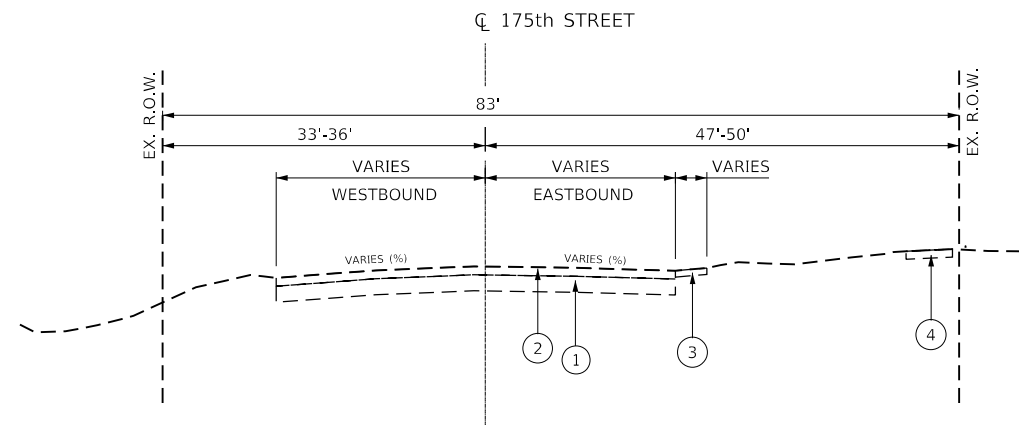


**LEGEND – EXISTING:**

- ① EXISTING P.C.C. PAVEMENT COURSE, 7" (+/-)
- ② EXISTING HMA SURFACE COURSE, 7.75" (+/-)
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING SIDEWALK

**LEGEND – PROPOSED:**

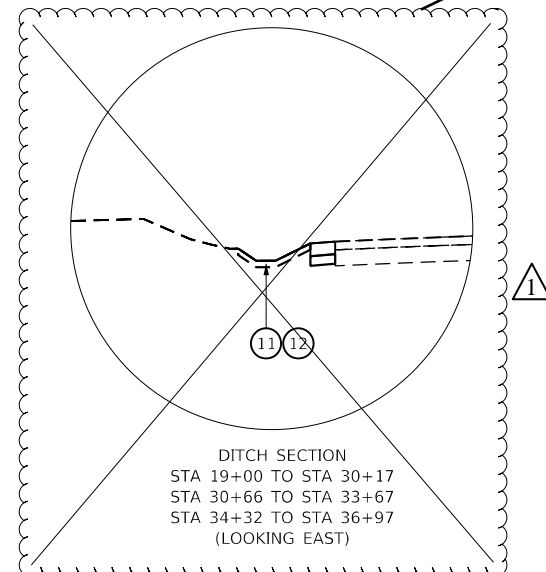
- ⑦ PROPOSED PCC SHOULDERS, 8"
- ⑧ PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 6"
- ⑨ PROPOSED CONCRETE GUTTER TB SPECIAL
- ⑩ PROPOSED AGGREGATE SHOULDERS TYPE B, 4"
- ⑪ TOPSOIL EXCAVATION AND PLACEMENT
- ⑫ TOPSOIL FURNISH AND PLACE, 4"



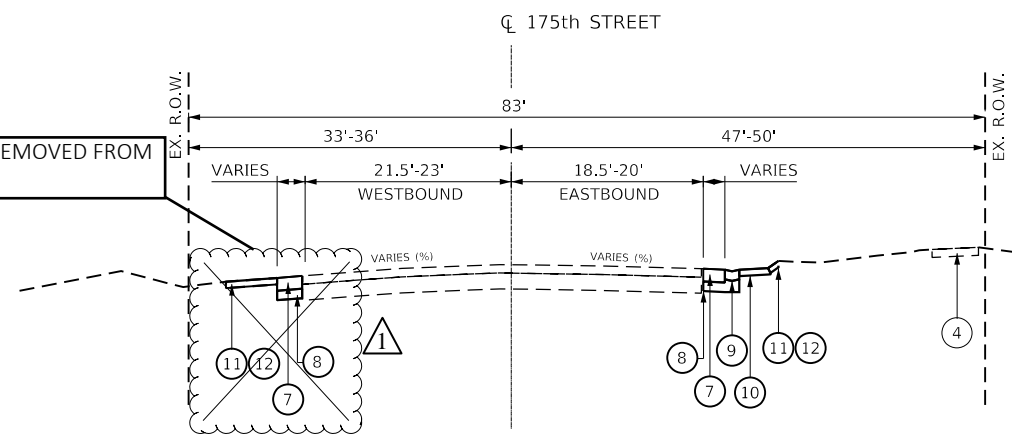
**EXISTING TYPICAL SECTION**

STA 18+94 TO STA 37+00  
(LOOKING EAST)

THIS WORK IS REMOVED FROM THE CONTRACT



DITCH SECTION  
STA 19+00 TO STA 30+17  
STA 30+66 TO STA 33+67  
STA 34+32 TO STA 36+97  
(LOOKING EAST)



**PROPOSED TYPICAL SECTION**

STA 18+94 TO STA 37+00  
(LOOKING EAST)

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DRAWN - AAT	REVISIONS -	
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

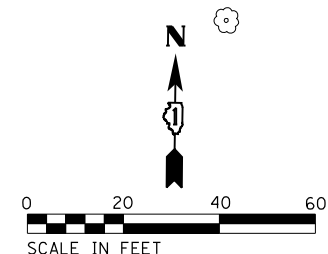
**175TH STREET – WESTERN AVE TO DIXMOOR DR  
TYPICAL SECTIONS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1618	2021-055-DR	COOK	125	10
			CONTRACT NO. 62N86	
		ILLINOIS FED. AID PROJECT		

**REVISION** 4/12/2023

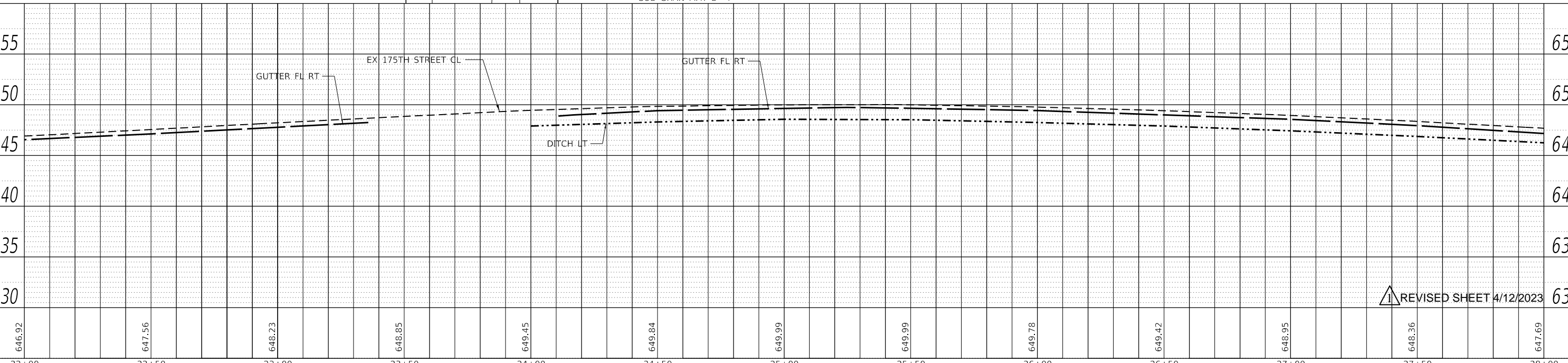
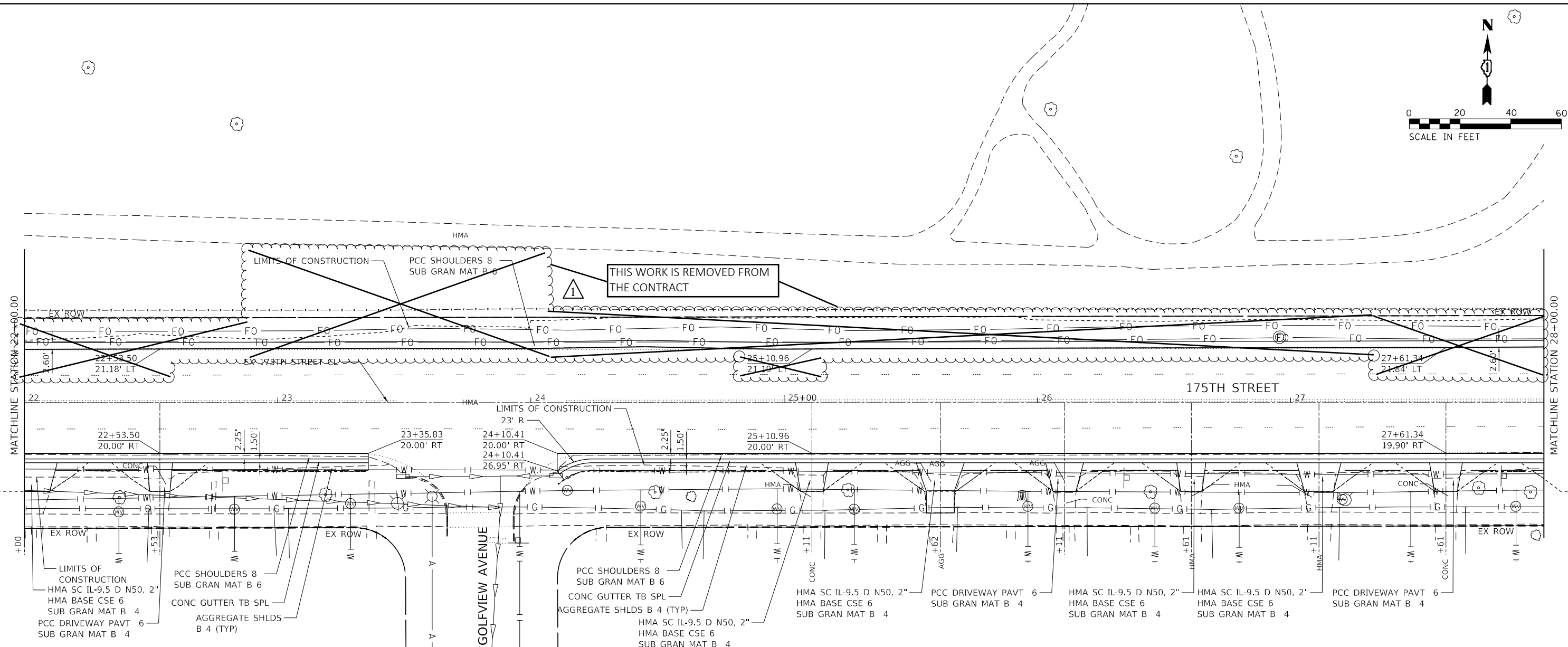




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DESIGNED	- TC
DRAWN	- TC
CHECKED	- GSB
DATE	- 2/10/2023
PLOT SCALE	= 40.0000' / in.
PLOT DATE	= 2/8/2023

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

175TH STREET - WESTERN AVE TO DIXMOOR DR  
 PLAN & PROFILE

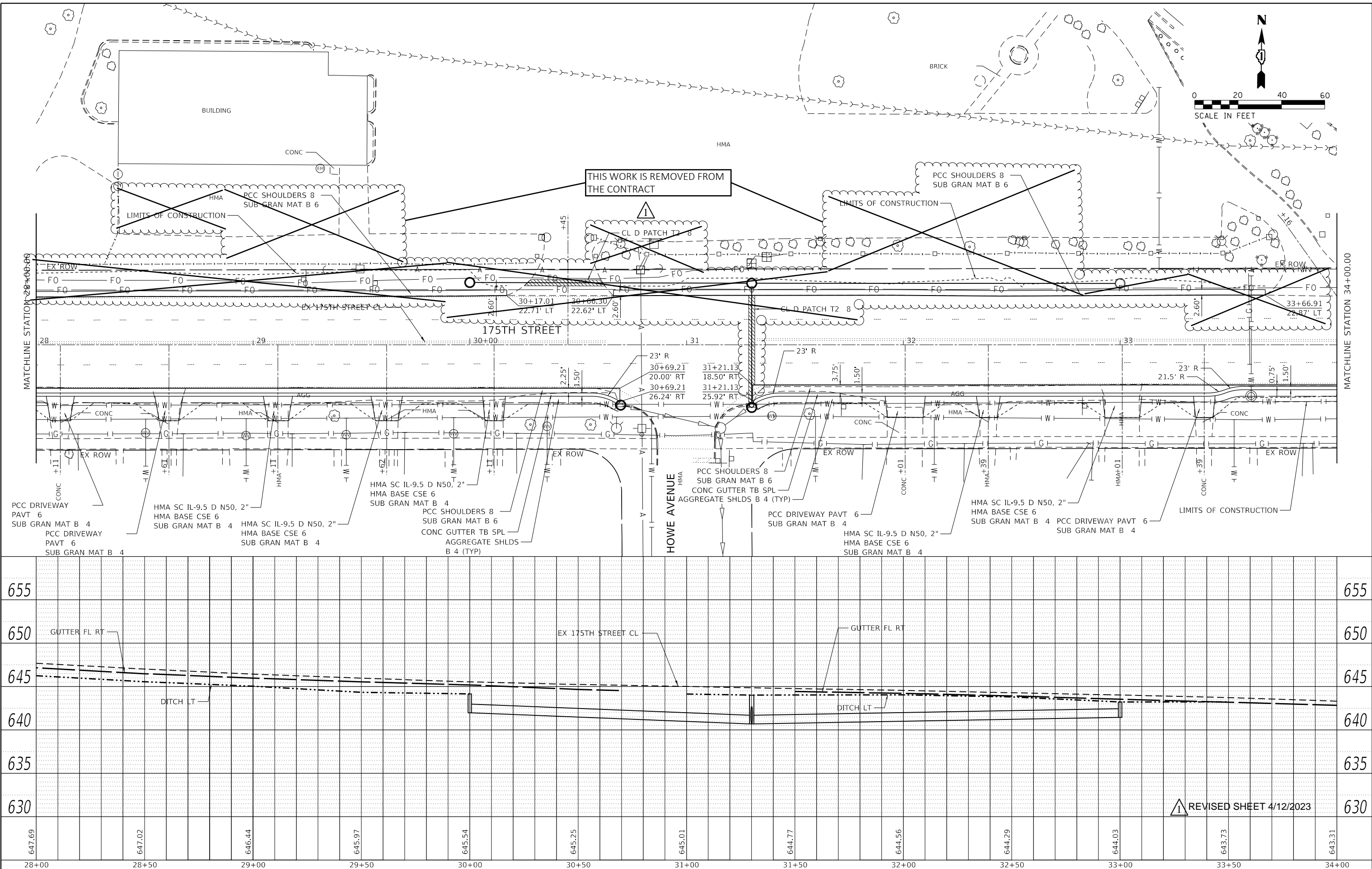
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1618	2021-055-DR	COOK	125	20
CONTRACT NO. 62N86				
ILLINOIS		FED. AID PROJECT		

DATE	
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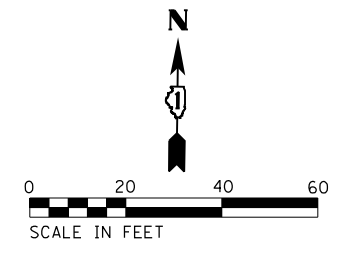
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

175TH STREET - WESTERN AVE TO DIXMOOR DR  
 PLAN & PROFILE  
 SCALE: 1"=20' SHEET 3 OF 4 SHEETS STA. 28+00.00 TO STA. 34+00.00

F.A.U. RTE. 1618	SECTION 2021-055-DR	COUNTY COOK	TOTAL SHEETS 125	SHEET NO. 21
CONTRACT NO. 62N86			ILLINOIS FED. AID PROJECT	

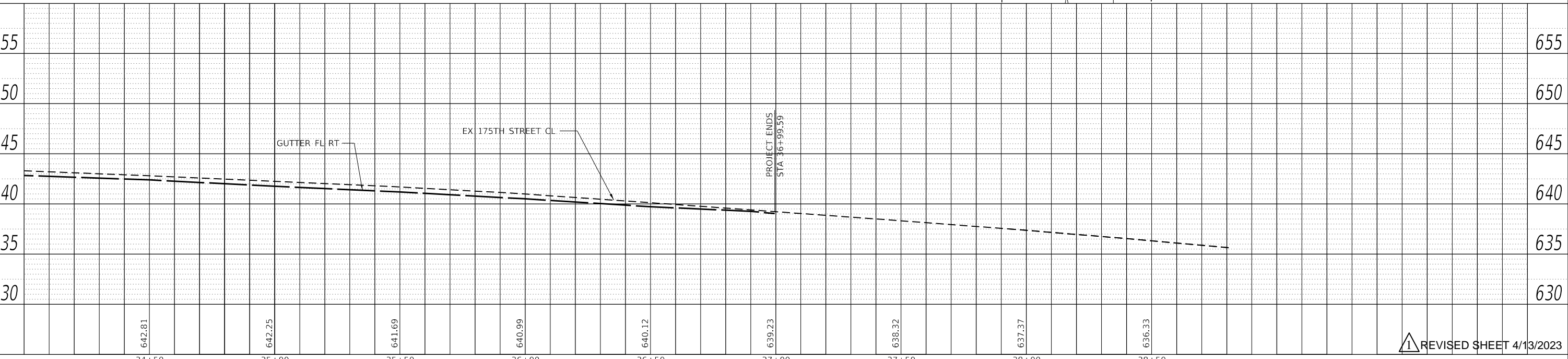
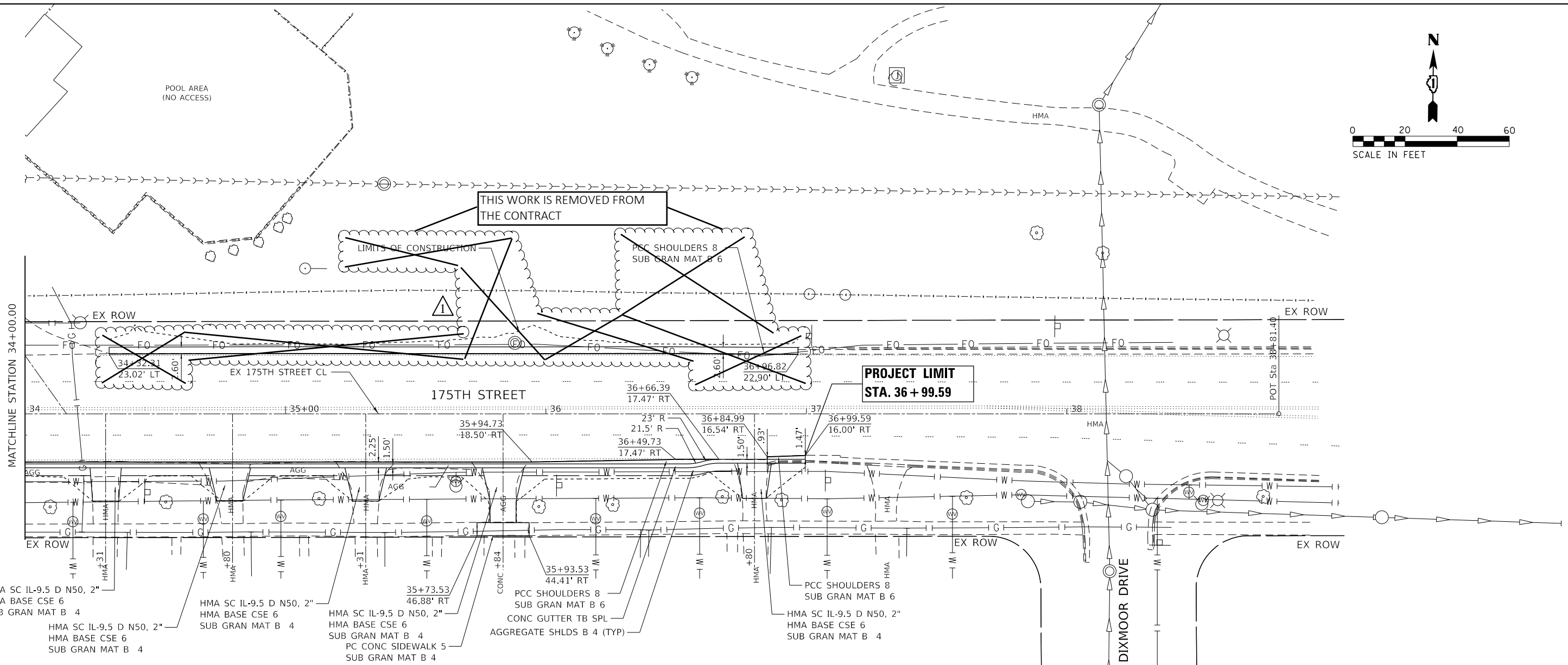




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USER NAME = tim.chin	DESIGNED - TC	REVISIONS
DESIGNED - TC	DRAWN - TC	REVISIONS
DESIGNED - TC	CHECKED - GSB	REVISIONS
DESIGNED - TC	DATE - 2/10/2023	REVISIONS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

175TH STREET - WESTERN AVE TO DIXMOOR DR  
 PLAN & PROFILE

SCALE: 1"=20' SHEET 4 OF 4 SHEETS STA. 34+00.00 TO STA. 36+99.59

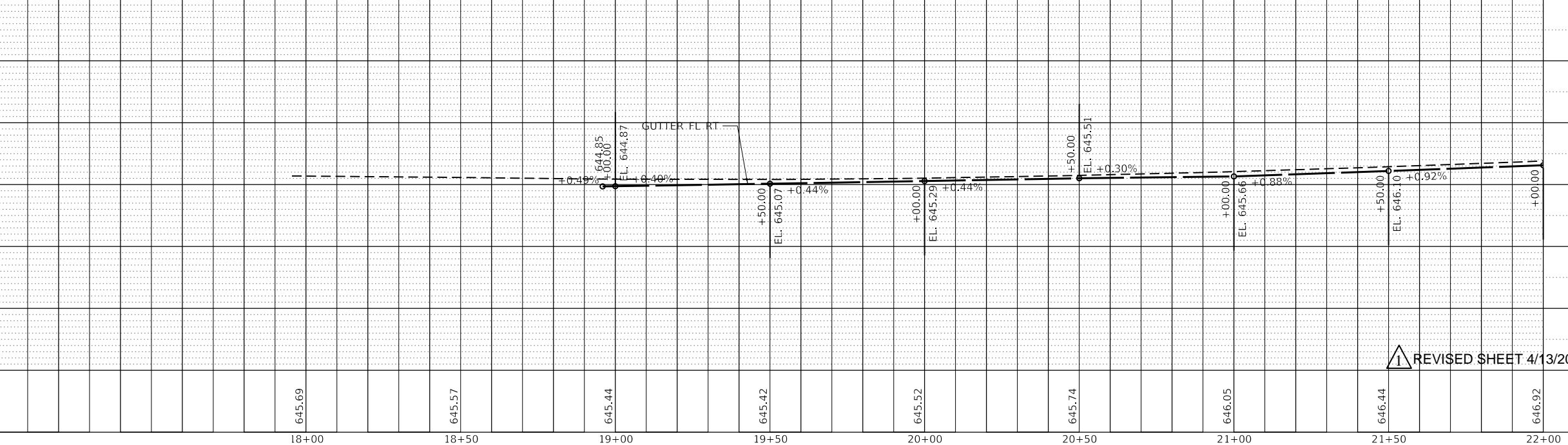
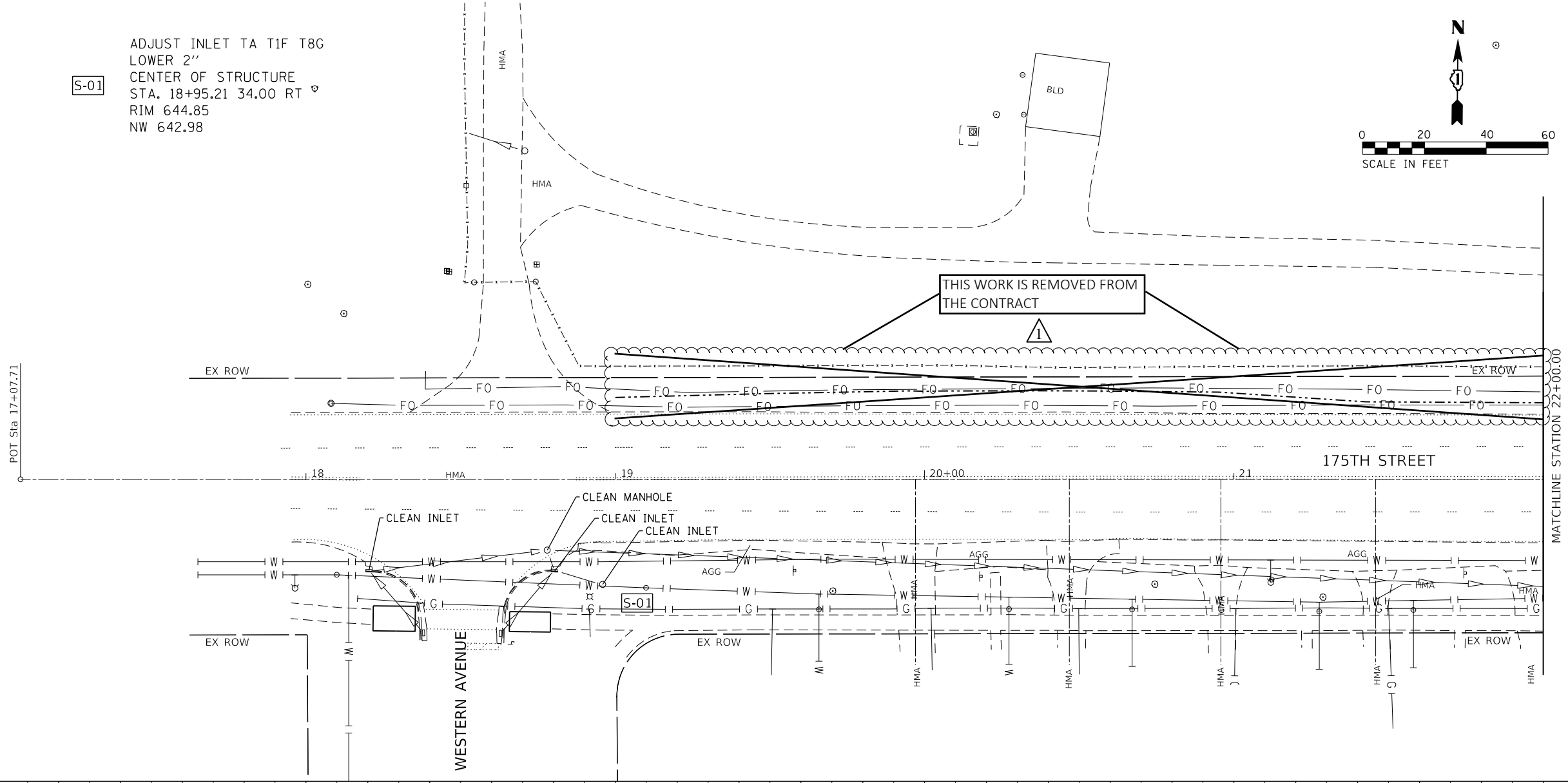
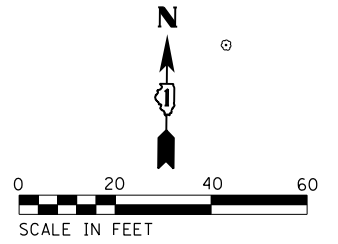
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1618	2021-055-DR	COOK	125	22
				CONTRACT NO. 62N86
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO.	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	NO.	
	BY	
	DATE	

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S-01  
ADJUST INLET TA T1F T8G  
LOWER 2"  
CENTER OF STRUCTURE  
STA. 18+95.21 34.00 RT  
RIM 644.85  
NW 642.98



REVISOR: [Symbol] REVISION: [Symbol] DATE: 4/13/2023



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	DRAWN - MRB	REVISION -
PLOT SCALE = 40.0000' / in.	CHECKED - MSM	REVISION -
PLOT DATE = 2/6/2023	DATE - 2/10/2023	REVISION -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

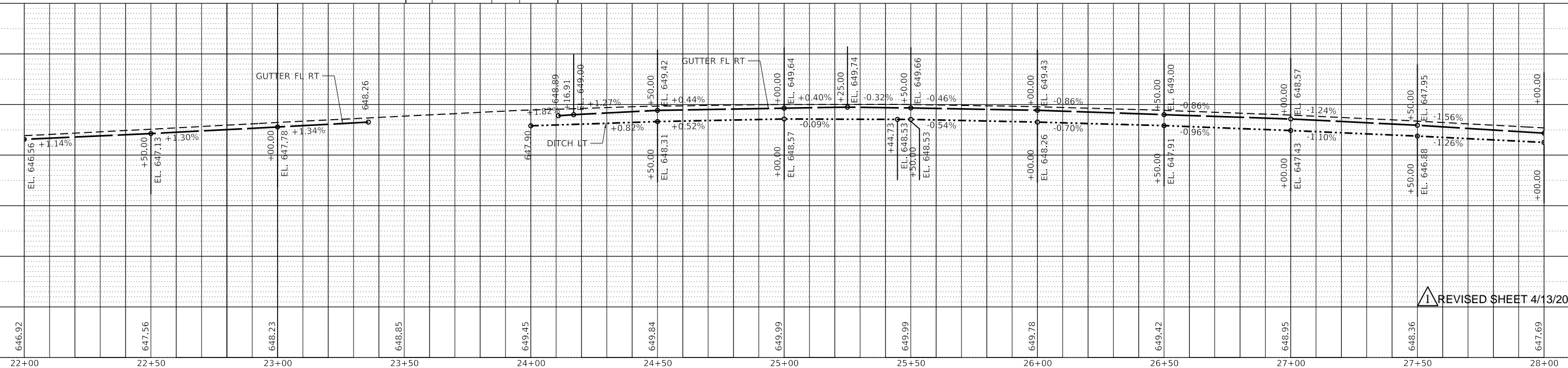
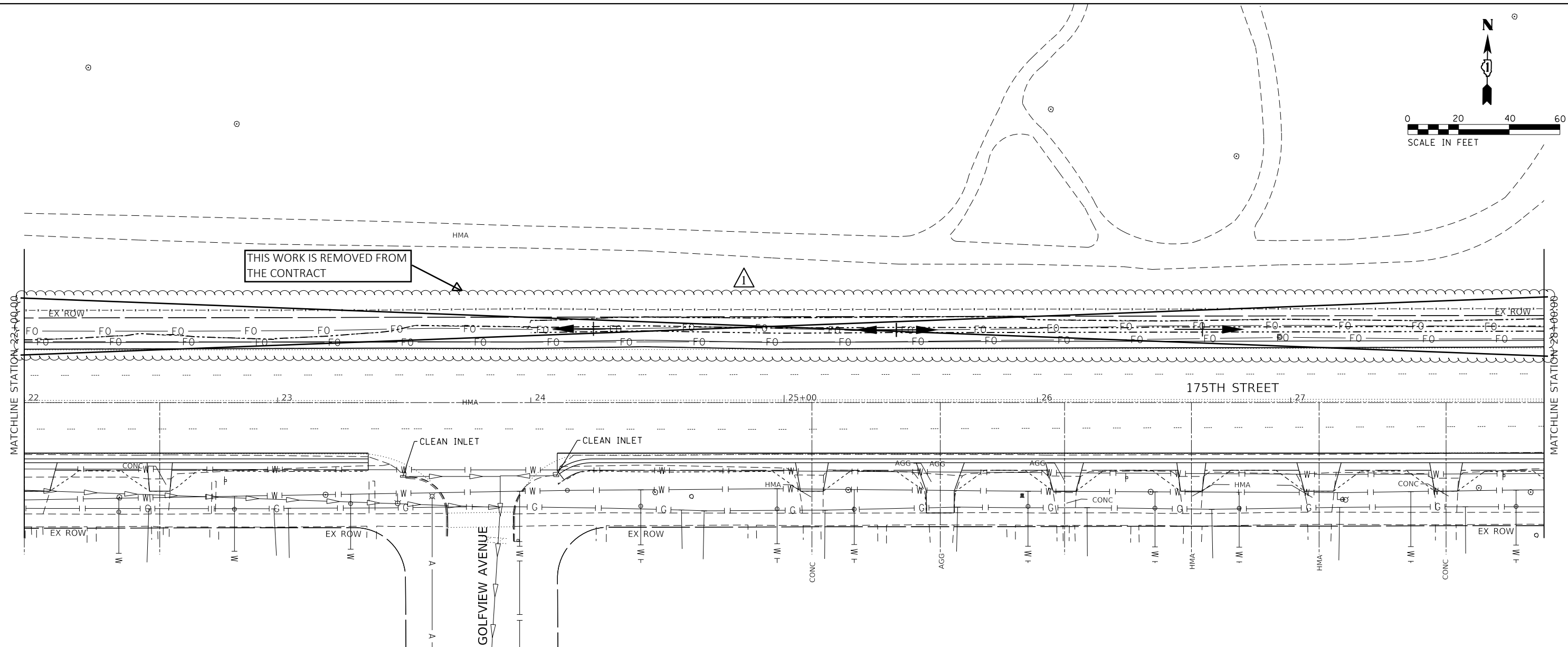
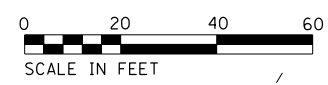
175TH STREET - WESTERN AVE TO DIXMOOR DR  
DRAINAGE PLAN AND PROFILE  
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1618	2021-055-DR	COOK	125	23
CONTRACT NO. 62N86				
ILLINOIS		FED. AID PROJECT		

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

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE NOTATIONS	CHECKED
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REVISION 1 REVISED SHEET 4/13/2023



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	DRAWN - MRB	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MSM	REVISED -
PLOT DATE = 2/6/2023	DATE - 2/10/2023	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**175TH STREET - WESTERN AVE TO DIXMOOR DR  
 DRAINAGE PLAN AND PROFILE**

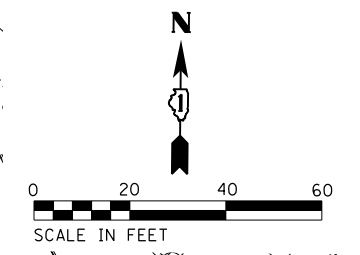
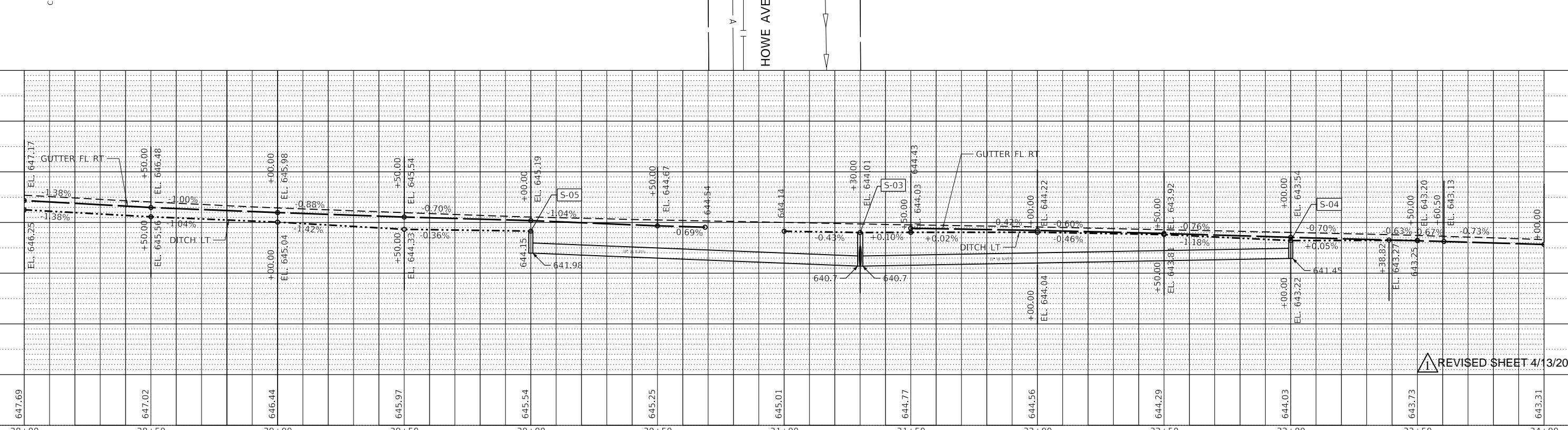
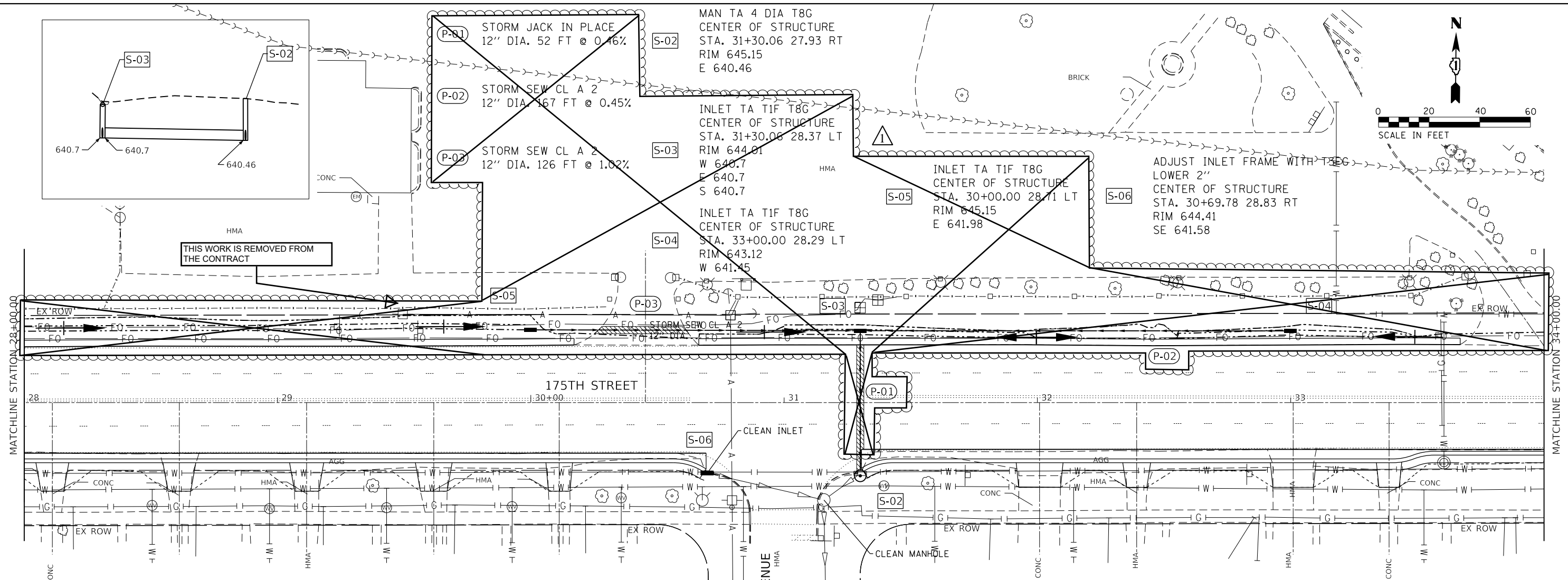
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CONTRACT NO. 62N86				
ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
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	NOTE BOOK	
	NO. _____	
	STRUCTURE NOTATION	
	NO. _____	
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	NO. _____	

PROFILE	SURVEYED	DATE
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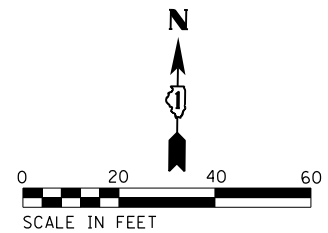
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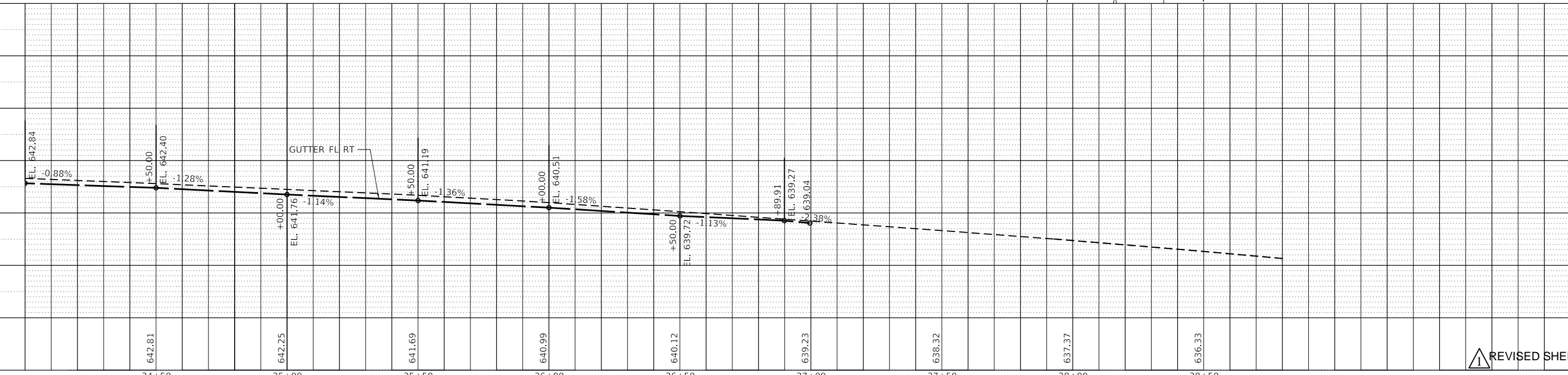
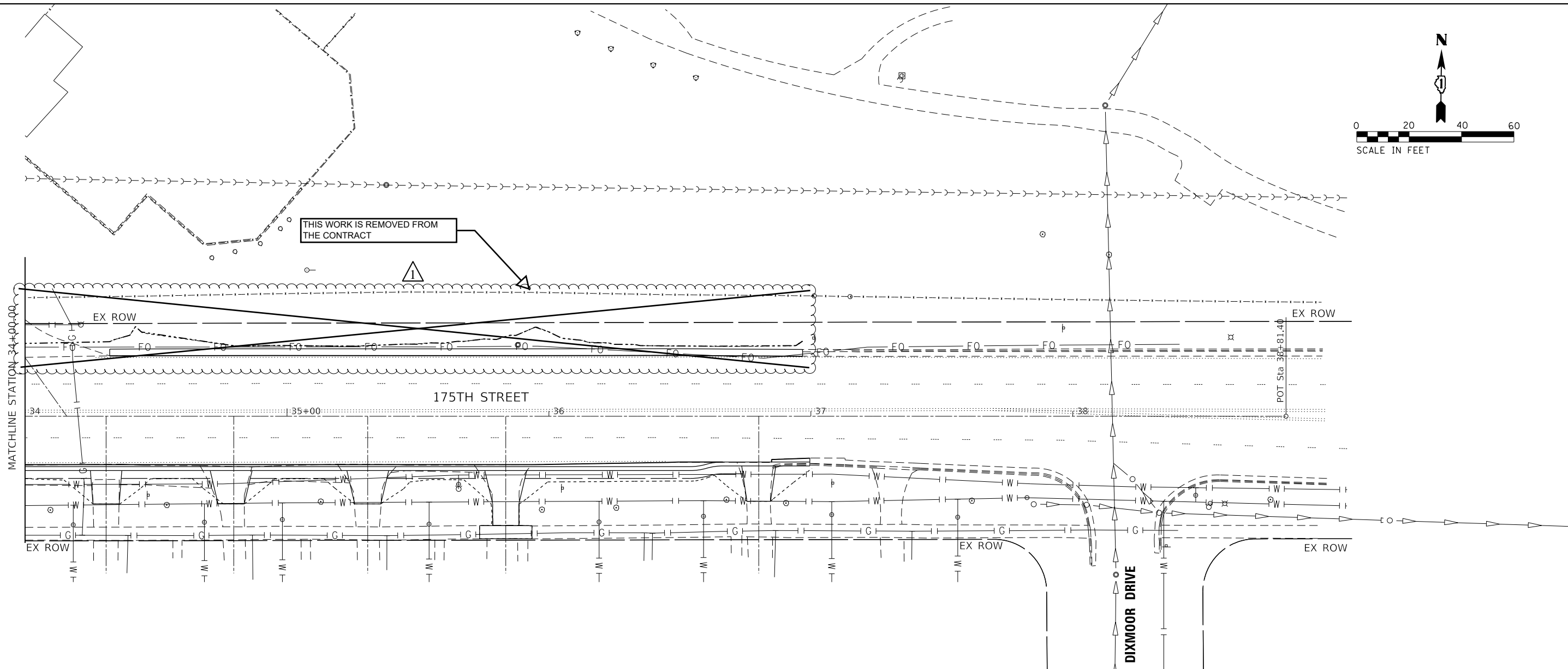
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REVISED SHEET 4/13/2023

	USER NAME = sean.martin	DESIGNED - TDW	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>175TH STREET - WESTERN AVE TO DIXMOOR DR</b> <b>DRAINAGE PLAN AND PROFILE</b>	F.A.U. RTE. 1618	SECTION 2021-055-DR	COUNTY COOK	TOTAL SHEETS 125	SHEET NO. 25
	PLOT SCALE = 40.0000' / in.	CHECKED - MSM	REVISED -			SCALE: 1"=20'	SHEET 3 OF 4 SHEETS	STA. 28+00.00 TO STA. 34+00.00	CONTRACT NO. 62N86	
PLOT DATE = 3/28/2023	DATE = 2/10/2023	REVISED -								



THIS WORK IS REMOVED FROM THE CONTRACT



PLAN

DATE	
BY	
REVISIONS	
NO.	
FILE NAME	
PROJECT	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
FILE NAME	
PROJECT	
DESCRIPTION	

PROFILE

DATE	
BY	
REVISIONS	
NO.	
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REVISION 1  
 REVISED SHEET 4/13/2023



USER NAME	= todd.williams
DESIGNED	- TDW
DRAWN	- MRB
CHECKED	- MSM
DATE	- 2/10/2023
PLOT SCALE	= 40.0000' / in.
PLOT DATE	= 2/6/2023

REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

175TH STREET - WESTERN AVE TO DIXMOOR DR  
 DRAINAGE PLAN AND PROFILE

SCALE: 1"=20' SHEET 4 OF 4 SHEETS STA. 34+00.00 TO STA. 36+99.59

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1618	2021-055-DR	COOK	125	26
CONTRACT NO. 62N86				
ILLINOIS FED. AID PROJECT				

Benchmark:  
Existing Structure: A 24" corrugated metal pipe culvert. The existing structure will be completely removed and replaced.  
No Salvage.

**INDEX OF SHEETS**

1. General Plan and Elevation
- 2-3. Precast Concrete Box Culvert Apron End Section Details

**GENERAL NOTES**

The design fill height for this box is 1 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.  
Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. 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.  
The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.  
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 and box culvert end sections shall be backfilled with Porous Granular Embankment 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 the end sections, and not closer than 2 ft from the face of embankment.

**LOADING HL-93**

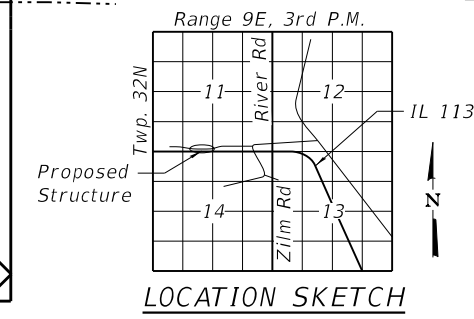
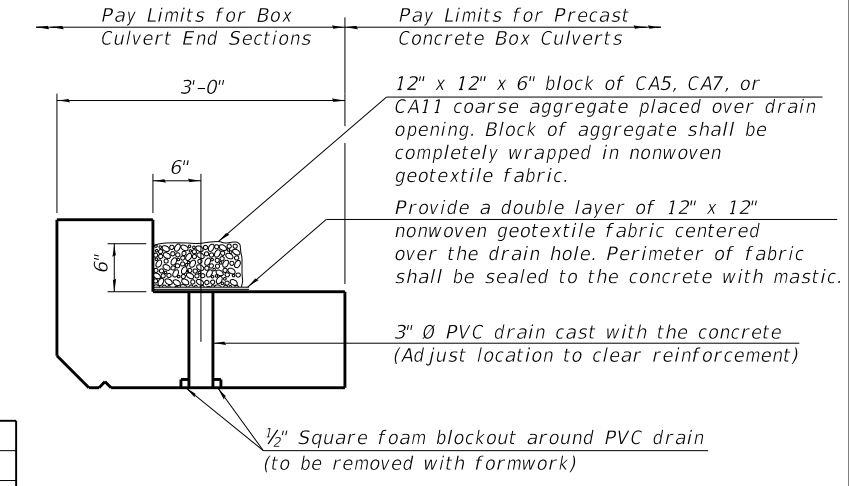
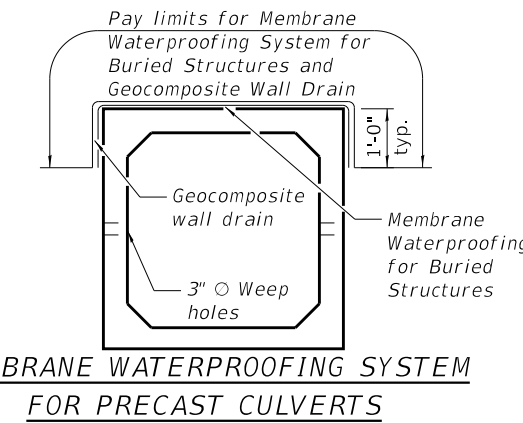
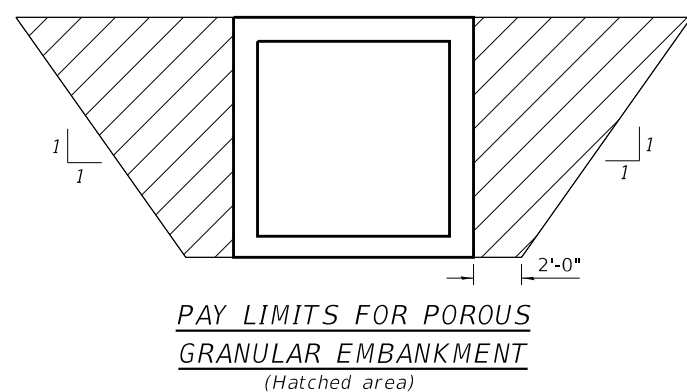
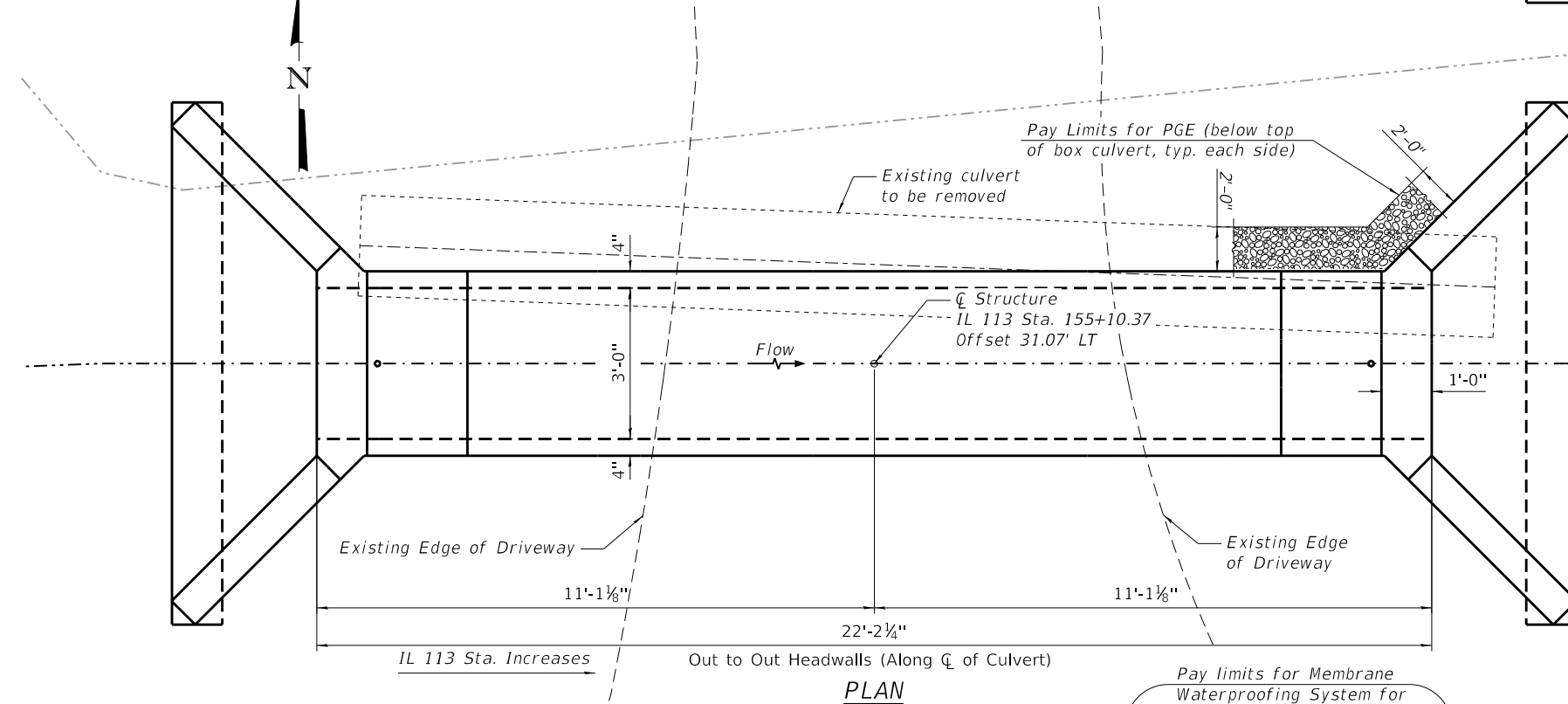
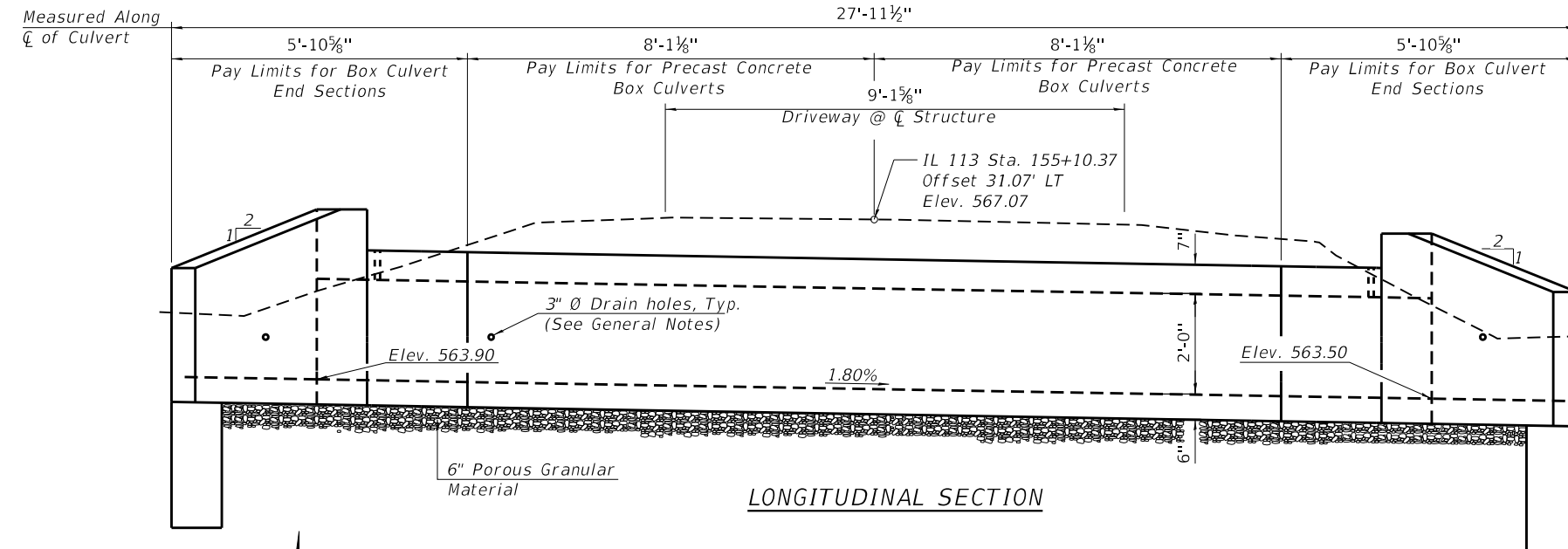
**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications  
9th Edition

**DESIGN STRESSES**

**PRECAST UNITS**

$f'_c = 5,000 \text{ psi}$   
 $f_y = 65,000 \text{ psi}$  (Welded Wire Reinforcement)

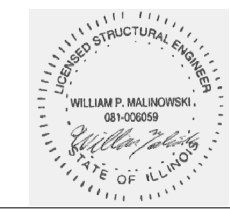


**DRAIN DETAIL**  
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	14
Pipe Culvert Removal	Foot	23
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 3' x 2'	Foot	16
Geocomposite Wall Drain	Sq. Yd.	14
Membrane Waterproofing System for Buried Structures	Sq. Yd.	14

**GENERAL PLAN AND ELEVATION**  
**IL RTE. 113 DRIVEWAY OVER DITCH**  
**F.A. RTE. 299 SEC. 2021-055-DR**  
**WILL COUNTY**  
**STATION 155+10.37**



02/10/2023  
Date  
William Malinowski  
Illinois Registered Engineer No. 081-006059  
Registration Expires Nov. 30, 2024



USER NAME =	DESIGNED - BJD	REVISED -
PLOT SCALE =	CHECKED - MGH	REVISED -
PLOT DATE =	DRAWN - BJD	REVISED -
	CHECKED - MGH	REVISED -

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

**GENERAL PLAN AND ELEVATION**

SHEET 1 OF 3 SHEETS

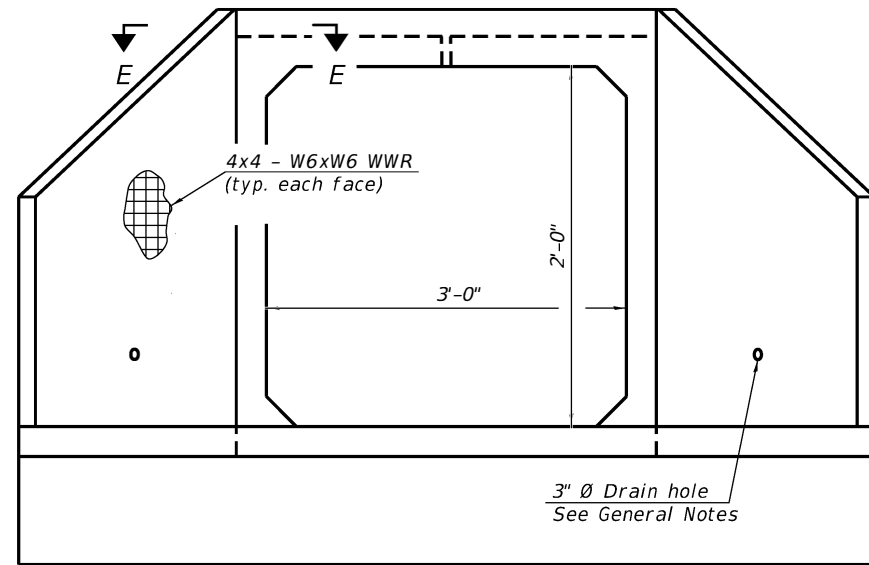
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CONTRACT NO. 62N88				

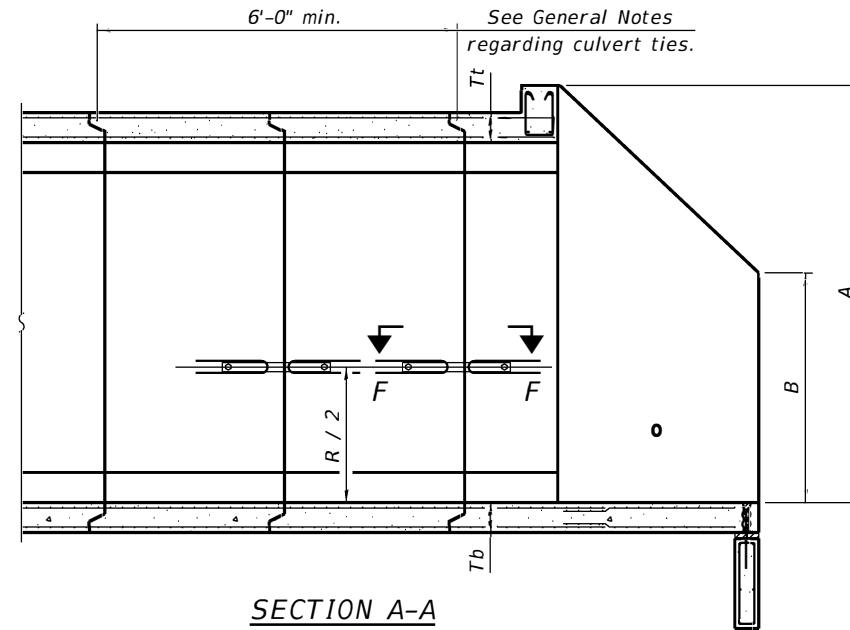
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END VIEW



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

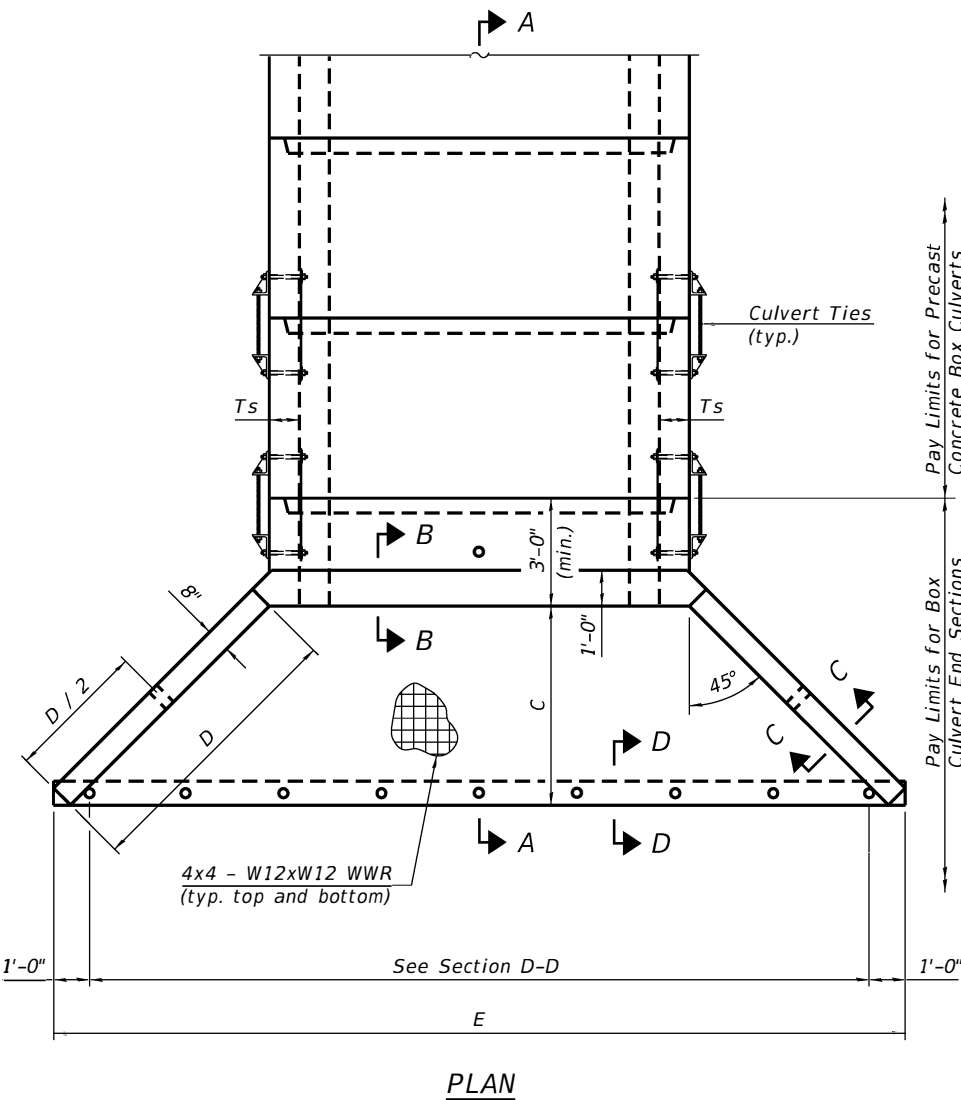
The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 5/8"	4'-1"	10'-4 5/8"	2.8	Yes



PLAN



USER NAME =	DESIGNED - BJD	REVISED -
PLOT SCALE =	CHECKED - MGH	REVISED - 4/14/23
PLOT DATE =	DRAWN - BJD	REVISED -
	CHECKED - MGH	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END  
 SECTION DETAILS

SHEET 2 OF 3 SHEETS

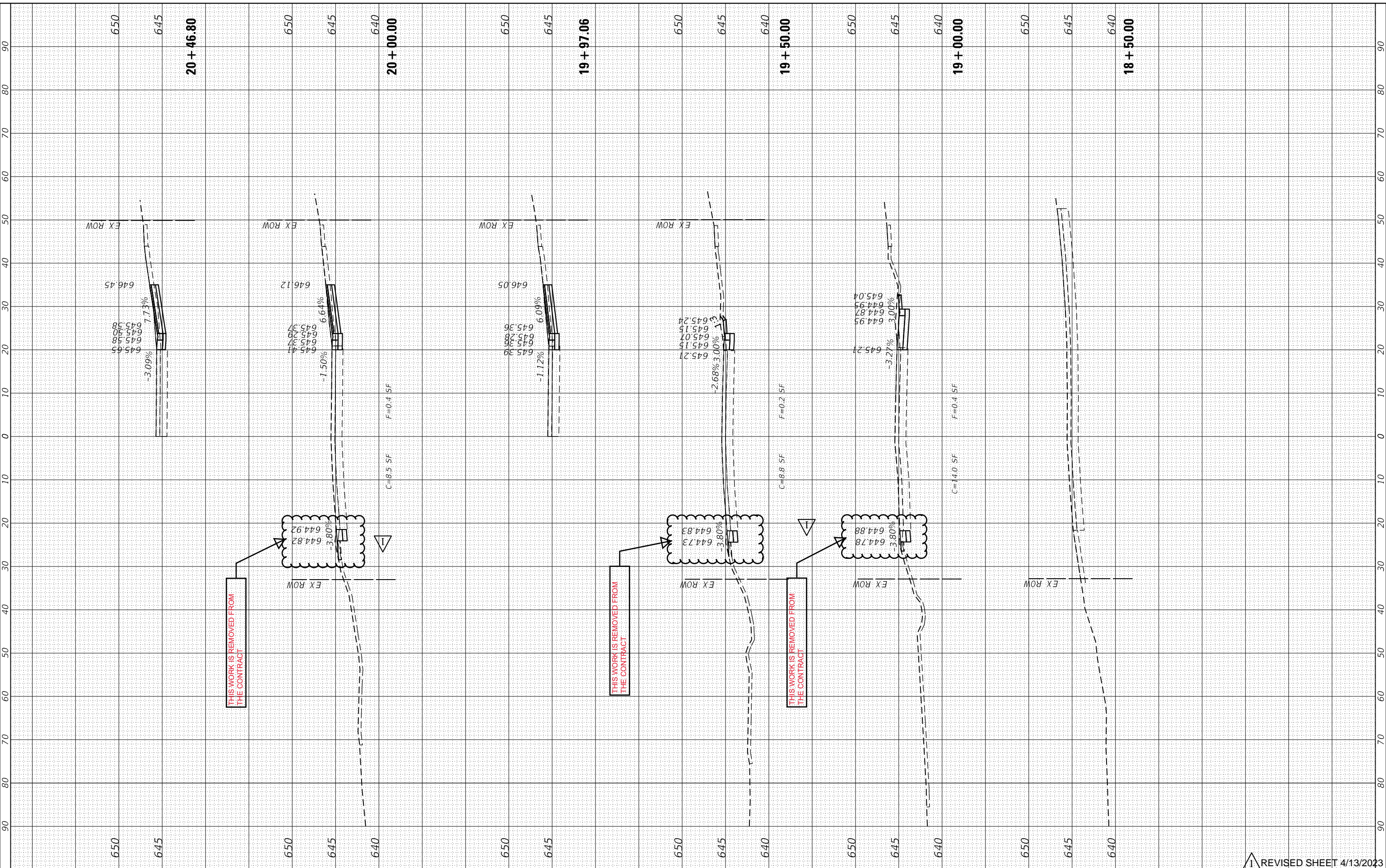
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299	2021-055-DR	WILL	125	76
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N88	

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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	DATE

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PLOT DATE = 2/9/2023	CHECKED - GSB	REVISD -
	DATE - 2/10/2023	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**175TH STREET CROSS SECTIONS**

SCALE: H: 1"=10'  
 V: 1"=5'  
 SHEET 1 OF 10 SHEETS STA. 17+00.00 TO STA. 20+46.80

F.A.U. RTE. 1618	SECTION 2021-055-DR	COUNTY COOK	TOTAL SHEETS 125	SHEET NO. 94
CONTRACT NO. 62N86				
ILLINOIS FED. AID PROJECT				

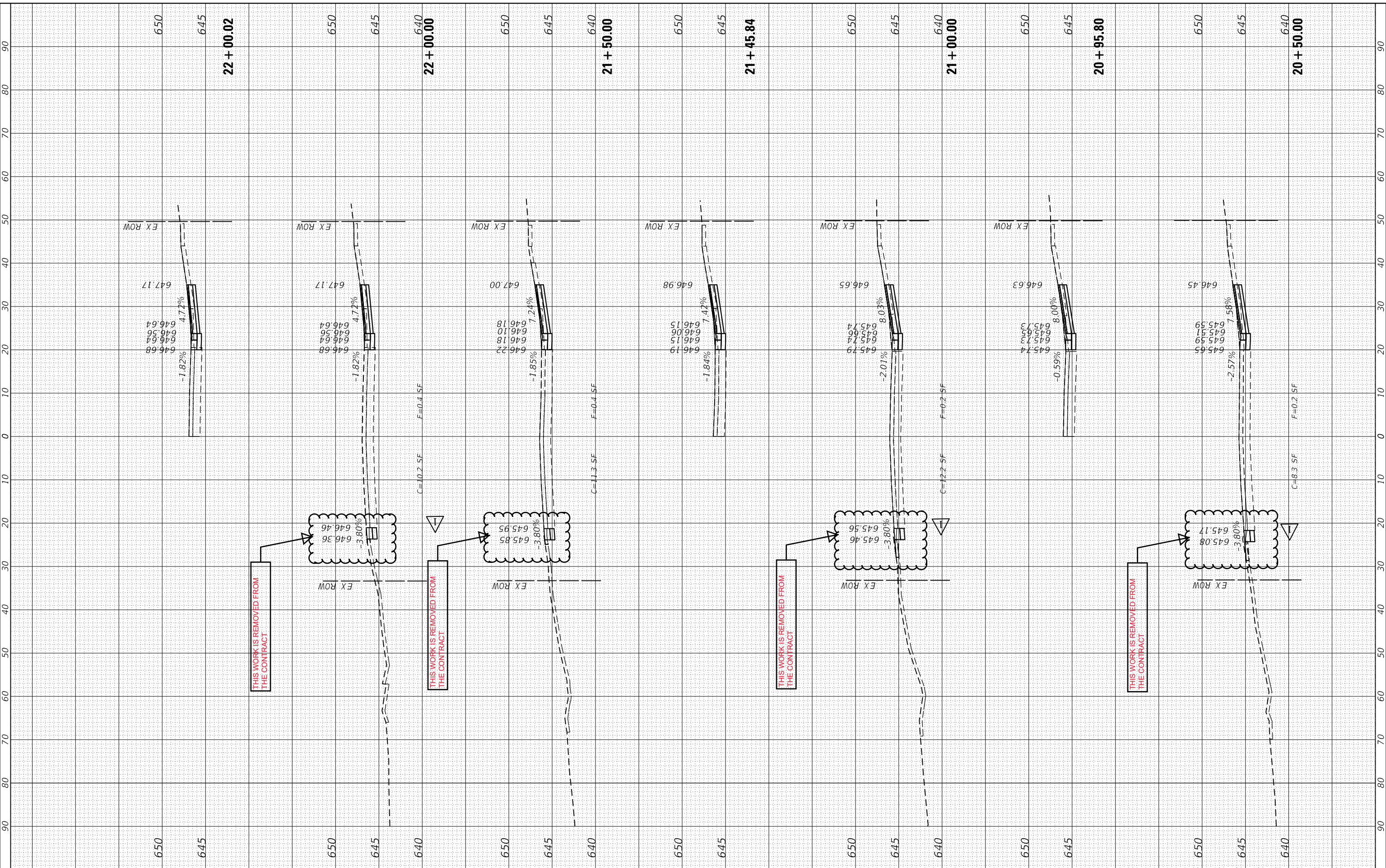
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AREAS CHECKED	AREAS CHECKED		

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DESIGNED	- TC
DRAWN	- TC
PLOT SCALE	= 20.0000' / in.
PLOT DATE	= 2/9/2023

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**175TH STREET CROSS SECTIONS**

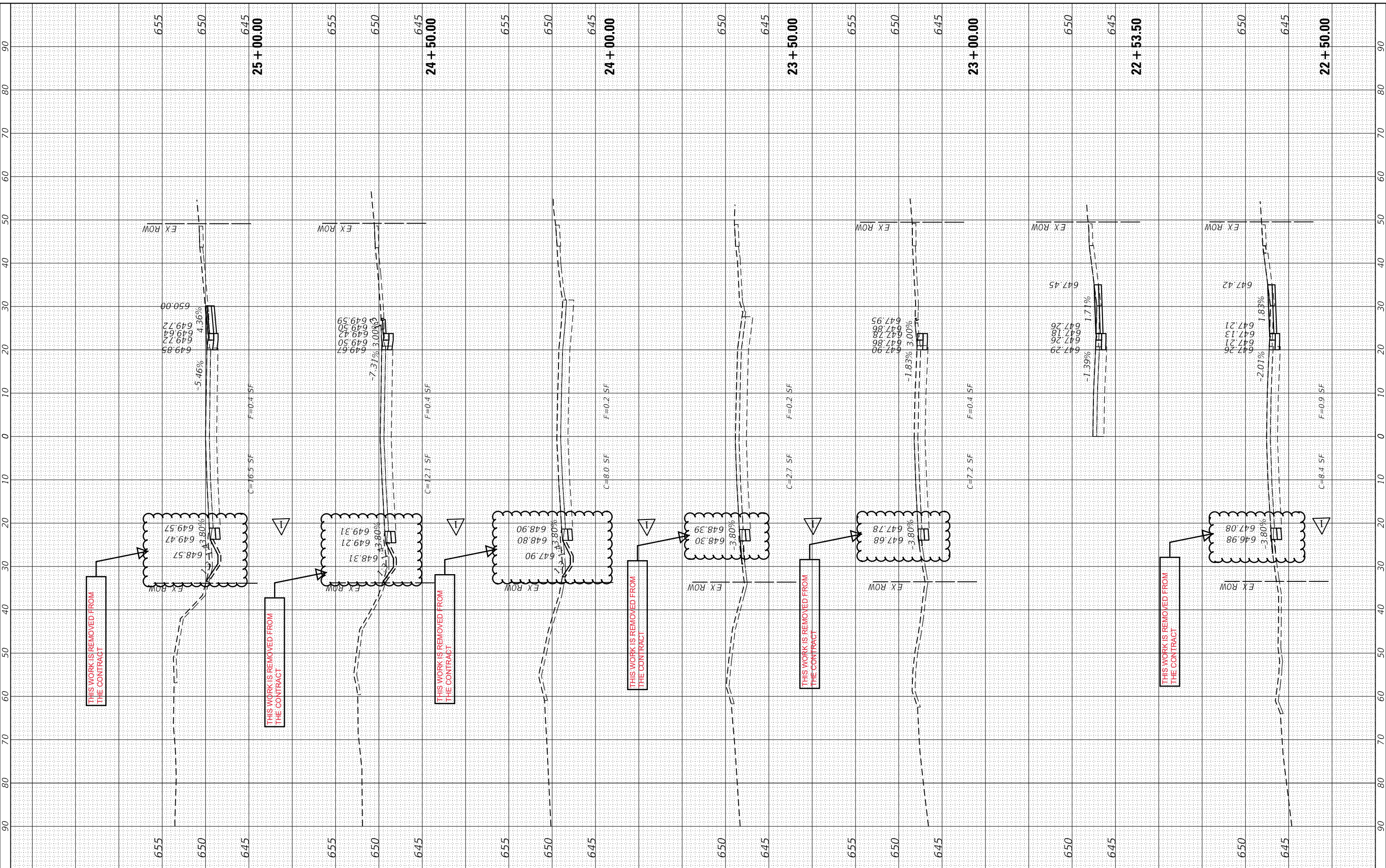
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1618	2021-055-DR	COOK	125	95
CONTRACT NO. 62N86				
ILLINOIS FED. AID PROJECT				

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DESIGNED	- TC
DRAWN	- TC
CHECKED	- GSB
DATE	- 2/10/2023

REVISED	-
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REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

175TH STREET CROSS SECTIONS

SCALE: H: 1"=10'  
 V: 1"=5'  
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62N86				
ILLINOIS FED. AID PROJECT				

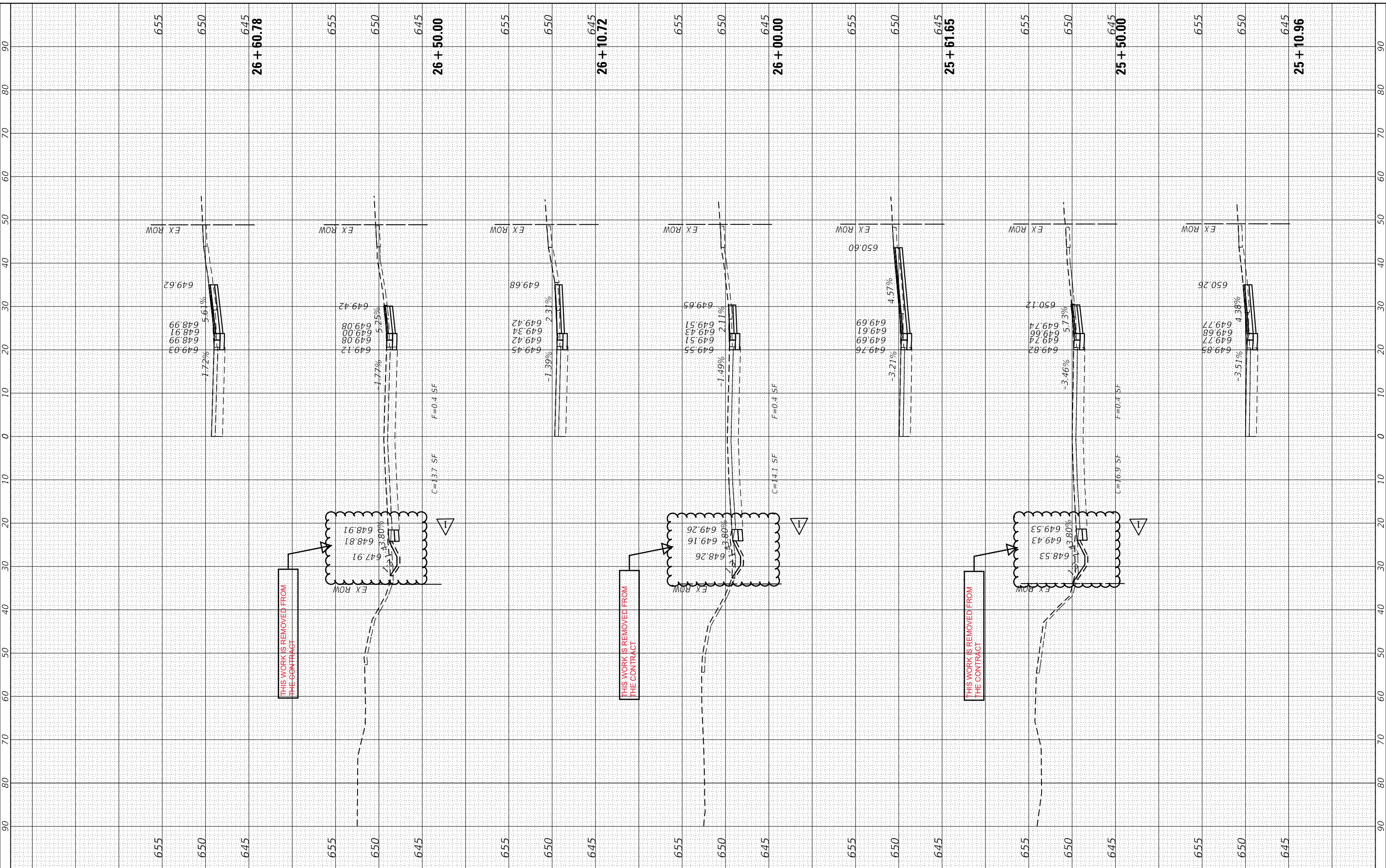
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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PLOT DATE	= 2/9/2023

REVISIONS	-
DESIGNED	- TC
DRAWN	- TC
CHECKED	- GSB
DATE	- 2/10/2023

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**175TH STREET CROSS SECTIONS**

SCALE: H: 1"=10'  
 V: 1"=5'  
 SHEET 4 OF 10 SHEETS STA. 25+10.96 TO STA. 26+60.78

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62N86				

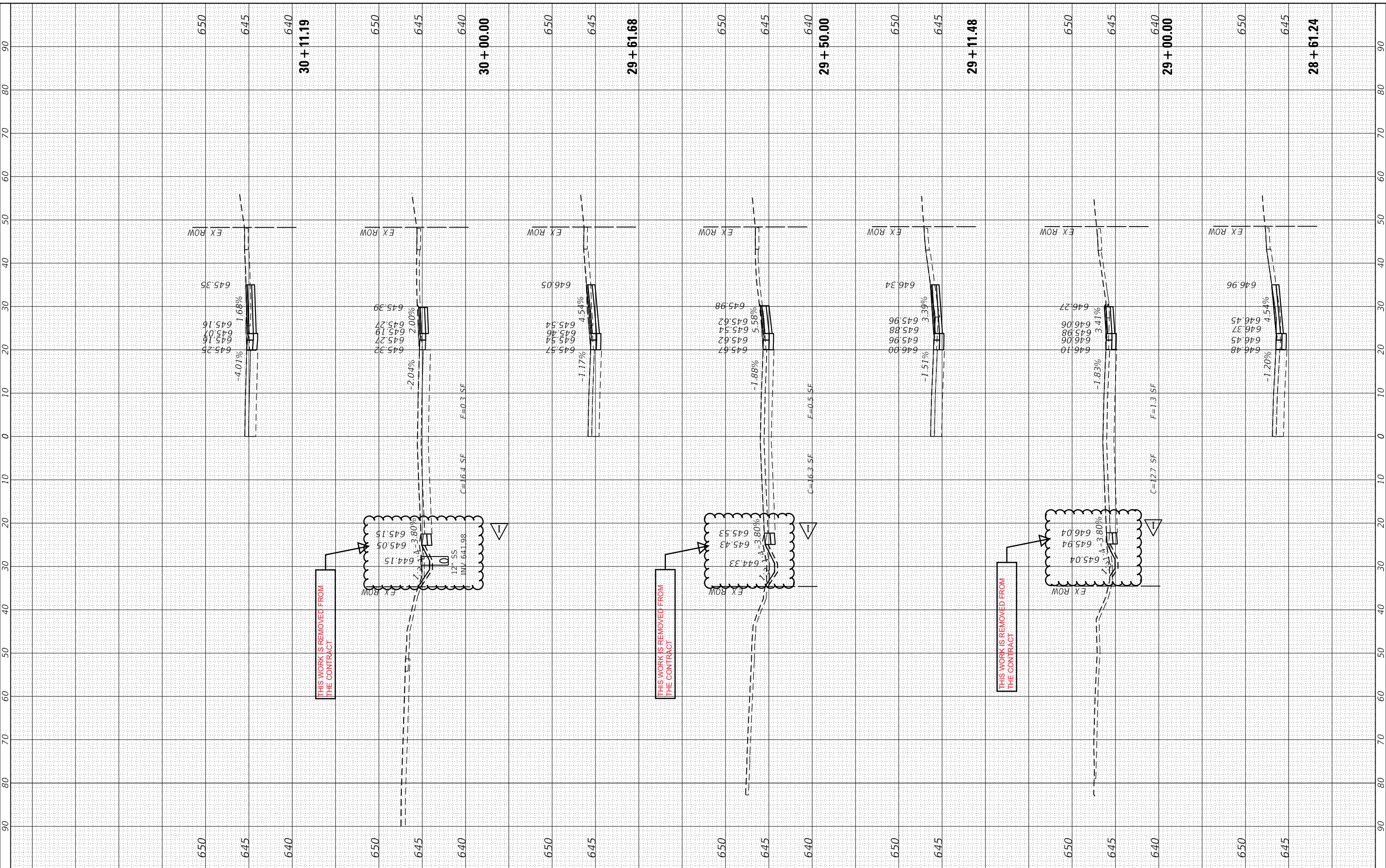




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USER NAME =	tim.chin
DESIGNED -	TC
DRAWN -	TC
CHECKED -	GSB
DATE -	2/10/2023
PLOT SCALE =	20,0000' / in.
PLOT DATE =	2/9/2023

REVISIONS	NO.	DESCRIPTION

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**175TH STREET CROSS SECTIONS**

SCALE: H: 1"=10'  
V: 1"=5'  
SHEET 6 OF 10 SHEETS STA. 28+61.24 TO STA. 30+11.19

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1618	2021-055-DR	COOK	125	99
CONTRACT NO. 62N86				
ILLINOIS FED. AID PROJECT				

REVISED SHEET 4/13/2023











