

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
622	(127)CR	FULTON	40	1
		ILLINOIS	CONTRACT NO. 68E09	

08-03-2018 LETTING ITEM 028

**INDEX OF SHEETS**

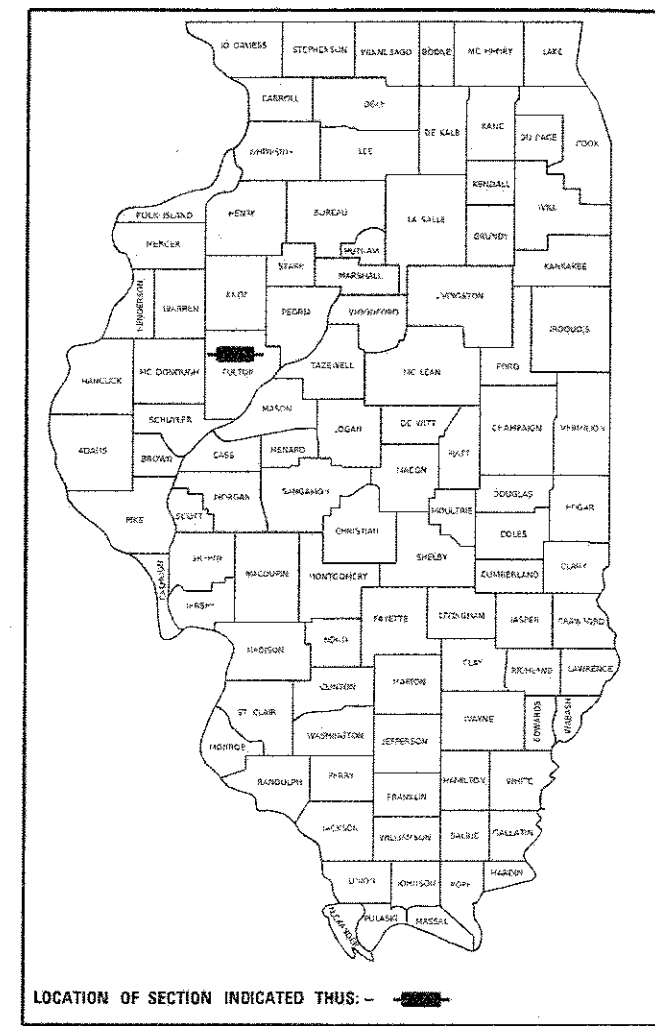
1. COVER SHEET
2. STATUS OF UTILITIES, MIX REQUIREMENTS, COMMITMENTS AND GENERAL & JOB SPECIFIC NOTES
- 3-5. SUMMARY OF QUANTITIES
6. SCHEDULE OF QUANTITIES
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- 20-21. PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - STRUCTURE NO. 029-2013
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED  
HIGHWAY PLANS**

**FAP ROUTE 622 (IL 97)  
SECTION (127)CR  
CULVERT REPAIR  
FULTON COUNTY  
C-94-033-18**

D-94-022-18

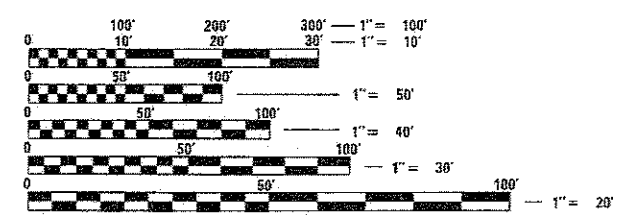


**HIGHWAY STANDARDS**

000001-06	701006-05
001001-02	701901-07
001006	720011-01
630001-12	725001-01
630106-02	729001-01
630301-08	782006
	BLR21-9

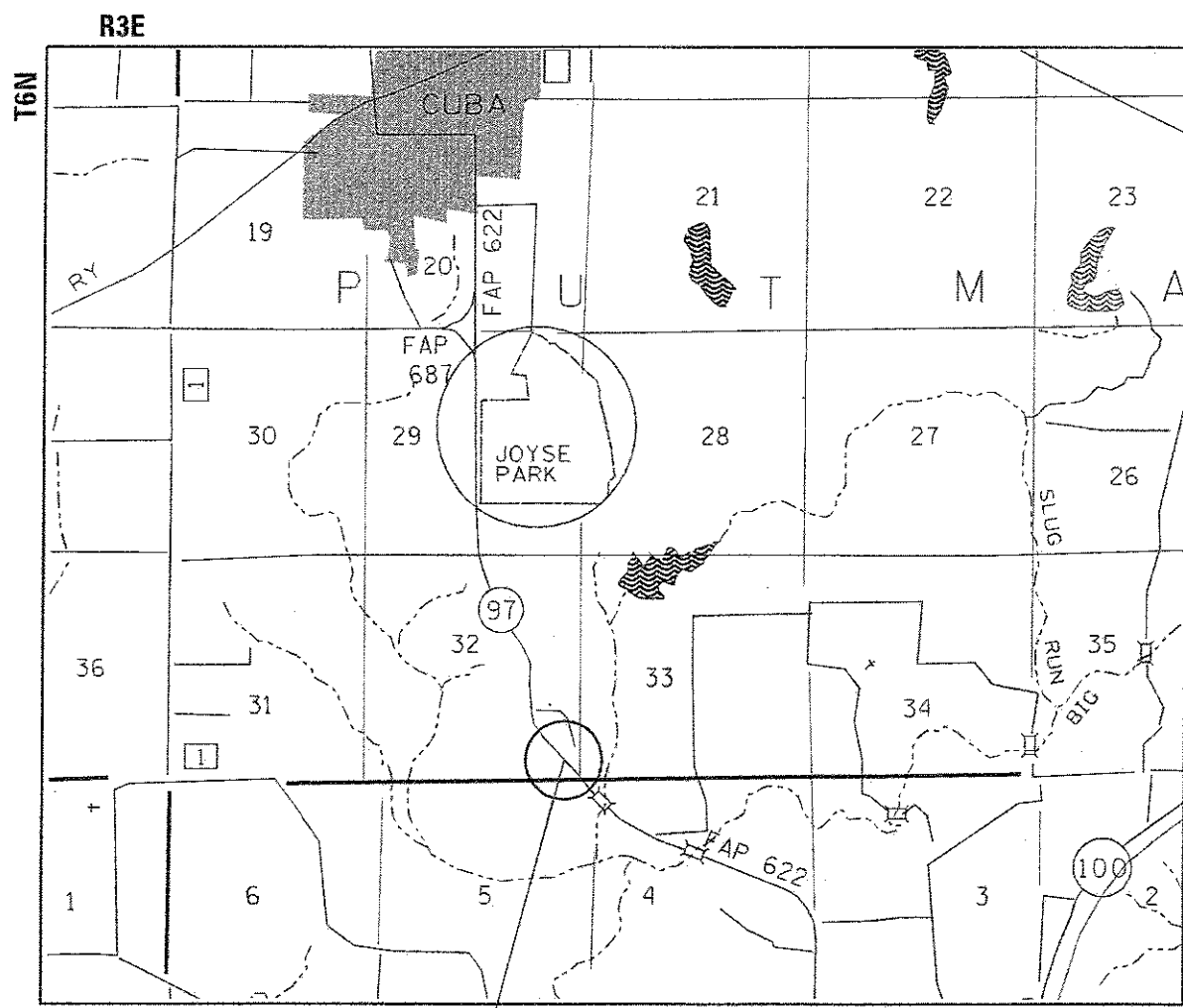
**IL-97 DESIGN DATA**

**MINOR ARTERIAL**  
2017 ADT = 1600  
2017 MU = 120  
2017 SU = 130



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

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



**PROJECT ENGINEER: RICH DOTSON (309)671-3455**  
**PROJECT MANAGER: ANNA BERGSIEKER (309)671-3471**

**CONTRACT NO. 68E09**

**PROJECT LOCATION**  
STA. 448 + 25 TO STA. 456 + 00

GROSS LENGTH = 775 FT. = 0.15 MILE  
NET LENGTH = 775 FT. = 0.15 MILE

**PROJECT DESCRIPTION**  
THIS PROJECT CONSISTS OF REMOVAL AND REPLACEMENT OF A 4'x6' CONCRETE BOX CULVERT WITH AN 8'x6' PRECAST BOX CULVERT (PROPOSED S.N. 029-2013), GUARDRAIL REPLACEMENT, SLOPE STABILIZATION, ALONG WITH ANY OTHER COLLATERAL WORK NEEDED TO COMPLETE THIS PROJECT.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 17 2018  
Paul A. [Signature]  
REGION THREE ENGINEER

June 29 2018  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

June 29 2018  
Paul P. [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

**107.00 COMMITMENTS**

There are no commitments for this project.

**201.04 TREE REMOVAL**

The District Four Tree Committee should be contacted and prior approval obtained for any tree removal beyond the limits/locations included in the plans.

**204.00 ENVIRONMENTAL REVIEWS**

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Environmental Survey Request)
- \* BDE Form 2290 (Waste/Use Area Review)
- \* A location map showing the size limits and location of the use area
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form-D4 PI0101

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

**670.00 ENGINEERS FIELD OFFICE**

Add the following sentence to the end of paragraph 670.02 (i) and 670.04 (e):  
All of the telephone lines provided shall have unpublished numbers.

**STATUS OF UTILITIES**

COMPANY	TYPE OF UTILITY	TYPE OF CONFLICT	LOCATION	DISPOSITION
PEG Bandwidth	Fiber Optic	Conflict	Sta 453+30 To Sta 454+00	Relocate
Comcast	Fiber Optic / Coax	N/A	N/A	Clear
AT&T	Telephone	N/A	Aerial West side of ROW	Clear
Spoon River Electric	Electric	N/A	Aerial West side of ROW	Clear

**JOB SPECIFIC NOTES**

CONTRACTOR SHALL CONTACT ANNA GHIDINA, TRAFFIC OPERATIONS ENGINEER, AT (309)671-4466 2 WEEKS PRIOR TO ESTIMATED COMPLETION OF THE JOB TO ACCOMMODATE PAVEMENT STRIPING BY IDOT CREWS.

**HMA MIXTURE REQUIREMENTS**

\* TO BE USED IF HMA IS THE DESIRED MATERIAL FOR THE PATCHING PAVEMENT

The following mixture requirements are applicable for this project:

Mixture Use(s):	HMA Bse. Cse. 4", 3", 3" Lifts	Surface Cse. (2")			
AC/PG:	64-22	64-22			
Design Air Voids:	4.0% @ N=50	4.0% @ N=50			
Mixture Composition: (Mixture Gradation)	IL 19.0	IL 9.5			
Friction Aggregate:	N.A.	Mix C			
Quality Management Program:	QC/QA	QC/QA			

Note: 1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.  
2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/s.y./in., unless otherwise noted.  
3) Sublot sizes for PFP and QCP mixes will be 600 tons, unless otherwise agreed to by the Engineer and the paving contractor.

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PLOT DATE = 5/18/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

STATUS OF UTILITIES, MIX REQUIREMENTS, COMMITMENTS, AND GENERAL & JOB SPECIFIC NOTES			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE. 622	SECTION (127)CR	COUNTY FULTON	TOTAL SHEETS 40	SHEET NO. 2
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004	ROADWAY
				100% STATE	
48100100	AGGREGATE SHOULDERS, TYPE A	TON	198	198	
50200100	STRUCTURE EXCAVATION	CU YD	217	217	
52200015	PERMANENT SHEET PILING	SO FT	1218	1218	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	
54010806	PRECAST CONCRETE BOX CULVERT 8' X 6'	FOOT	90	90	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	862.5	862.5	
* 63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	87.5	87.5	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	462	462	
67100100	MOBILIZATION	L SUM	1	1	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16	
X0322906	WEEP HOLES CORED	EACH	8	8	

\*= SPECIALTY ITEM

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PLOT DATE = 5/18/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
622	(127)CR	FULTON	40	4
			CONTRACT NO. 68E09	
ILLINOIS FED. AID PROJECT				



										INFORMATION ONLY									
LOCATION				EARTH EXCAVATION	EARTH EXCAVATION ADJUST FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	EARTH EXCAVATION (WIDENING)	CHANNEL EXCAVATION	TOPSOIL FURNISH AND PLACE, 4"									
				CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	SQ. YD.									
RT.																			
STA.	450+75.00	TO	456+00.00	114.2	85.7	50.5	35.2	81.4	2.9	304.2									
LT.																			
STA.	448+25.00	TO	454+80.00	420.4	315.3	267.6	47.7	50.1	179.5	1890.7									
SUB-TOTAL				534.6	401.0	318.1	82.9	131.5	182.4	2194.9									
TOTAL ROUNDED				535.0				130.0	182.0	2195.0									

LOCATION				PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS
				FOOT	FOOT
RT. SIDE					
STA.	453+30.0	TO	454+35.0	115	64
LT. SIDE					
STA.	450+50.0	TO	453+45.0	275	112
TOTAL				390	176

STRUCTURE EXCAVATION						
LOCATION				LENGTH	AREA	VOLUME
				FT	SQ FT	CU YD
STA.	453+85.10	TO	454+23.80	60.0	97.6	216.9
TOTAL						217.0

LOCATION				PERMANENT SHEET PILING	WEEP HOLES CORED
				SQ FT	EACH
LT. STA.	453+33	TO	453+75	1218	8
TOTAL				1218	8

LOCATION				GUARDRAIL REMOVAL
				FOOT
RT. STA.	453+38.6	TO	454+88.5	150
LT. STA.	449+59.8	TO	451+85.8	224.5
LT. STA.	453+39.4	TO	454+26.7	87.4
SUB-TOTAL				461.9
TOTAL				462

LOCATION			PRECAST CONCRETE BOX CULVERT 8x6	BOX CULVERT END SECTIONS, CULVERT NO. 1		POROUS GRANULAR BACKFILL	PAVEMENT PATCHING, TYPE IV, 12 INCH	SUBBASE GRANULAR MATERIAL, TYPE A
				SINGLE CELL TAPERED	PRECAST APRON			
			FOOT	EACH		CU YD	SQ YD	TONS
LT. STA.	453+74.8		90.0		1.0	184.0	115.0	109.5
RT. STA.	454+29.1			1.0				
TOTAL			90.0	2.0		184.0	115.0	109.5

LOCATION				PAVEMENT REMOVAL	BOX CULVERT REMOVAL	CONCRETE HEADWALL REMOVAL SPECIAL
				SQ YD	FT	EACH
STA.	453+82.0	TO	454+18.0	115	57	2
TOTAL				115	57	2

LOCATION		MOBILIZATION	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	CONSTRUCTION LAYOUT	CHANGEABLE MESSAGE SIGN
		L SUM	L SUM	L SUM	CAL DAY
JOBSITE		1	1	1	74.0
TOTAL		1	1	1	74

2 boards@37 days each

LOCATION				STONE RIPRAP CLASS A5	STONE RIPRAP CLASS A4	STONE RIPRAP CLASS B4	FILTER FABRIC
				TON	TON	TON	SQ YD
RT. STA.	453+15	TO	454+05			70	131
RT. STA.	454+05	TO	454+50		71		48
RT. STA.	454+35	TO	454+65	76			53
LT. STA.	450+50	TO	451+75			458	554
LT. STA.	453+30	TO	453+90		143		186
TOTAL				76	214	528	972

LOCATION				STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REFLECTORS, TYPE A	GUARDRAIL AGGREGATE EROSION CONTROL	TERMINAL MARKER - DIRECT APPLIED
				FOOT	FOOT	EACH	EACH	EACH	TON	EACH
RT. STA.	450+88.61	TO	455+92.02	275.0	43.75	1.0	1.0	6.0	109.5	2.0
LT. STA.	448+24.54	TO	454+67.96	512.5	43.75	1.0		8.0	143.2	1.0
LT. STA.	454+67.96	TO	455+91.32	75.0			1.0	2.0	—	1.0
TOTAL				862.5	87.5	2.0	2.0	16.0	252.7	4.0

— Guardrail post will be in asphalt shoulder with v-gutter

LOCATION				AGGREGATE SHOULDERS, TYPE A
				TON
RT. STA.	450+88	TO	455+92	108
LT. STA.	448+25	TO	449+36	30.5
LT. STA.	452+00	TO	454+80	59.5
TOTAL				198.0

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

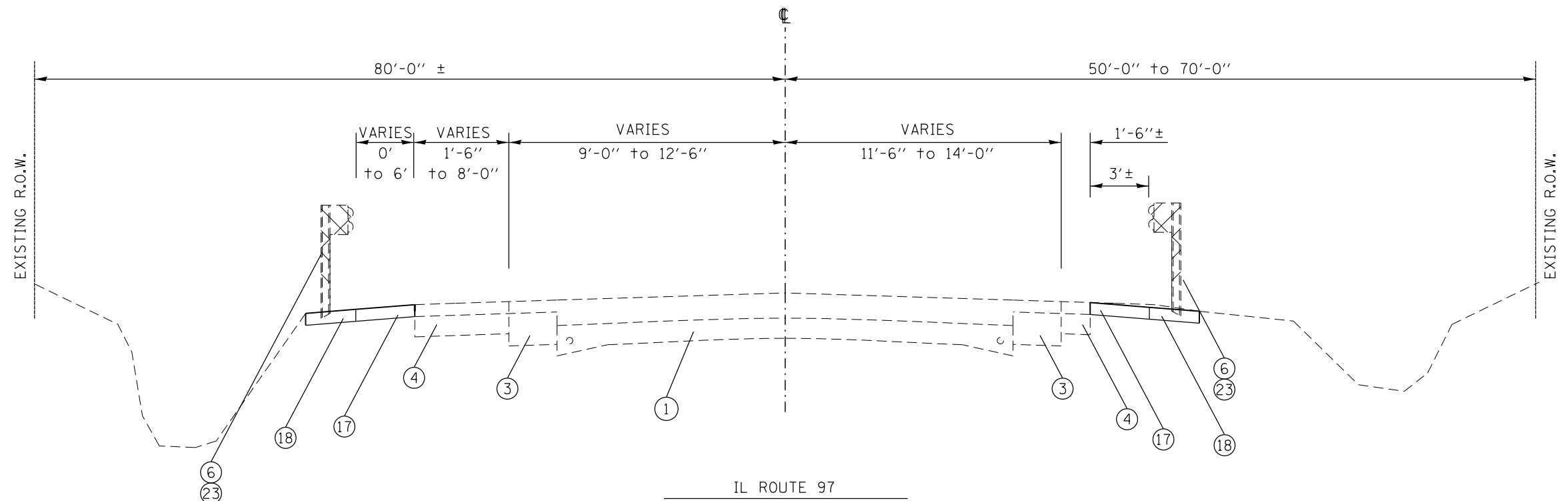
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622	(127)CR	FULTON	40	6
CONTRACT NO. 68E09			ILLINOIS FED. AID PROJECT	

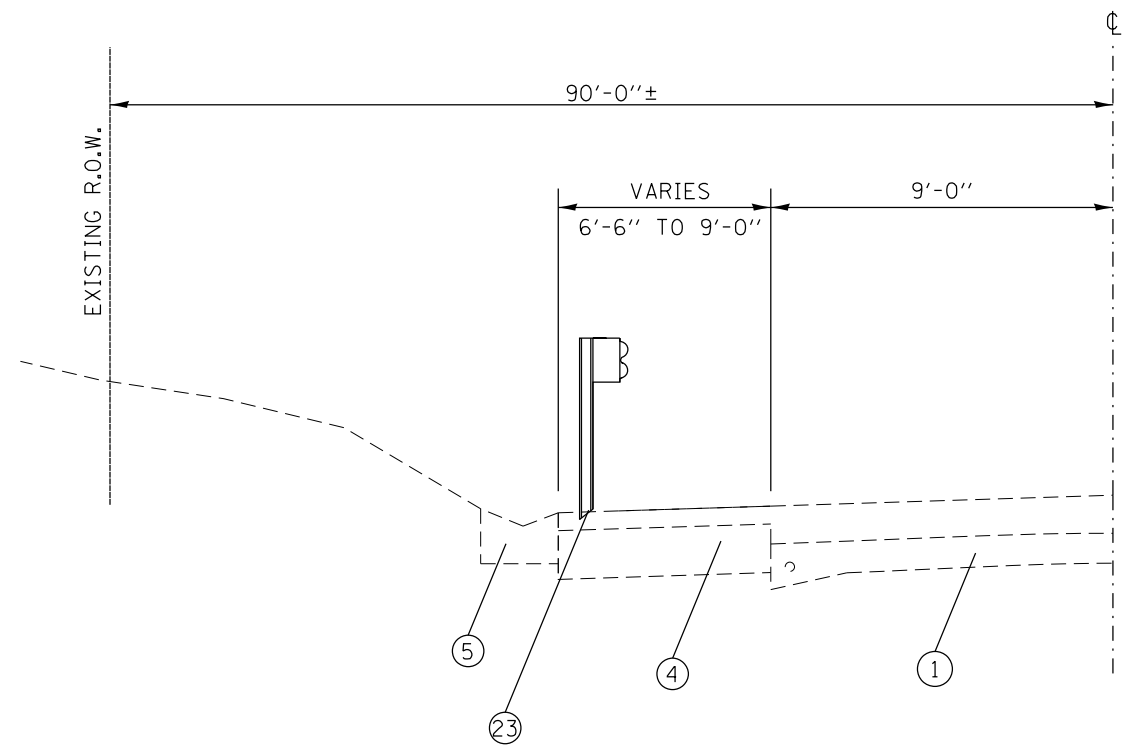








IL ROUTE 97  
 LT. STA. 448+25 TO 453+82\*  
 RT. STA. 450+75 TO 453+82\*  
 RT. STA. 454+18 TO 456+00



IL ROUTE 97  
 LT. STA. 454+18 to 456+00

\*NOTE:  
 SUPERELEVATION LIMITS  
 P.C. STA. 442+00  
 P.T. STA. 451+38.08

EXISTING		PROPOSED	
①	9-6-9 PCC PAVEMENT	⑮	BOX CULVERT REMOVAL
②	5"± HMA OVERLAY'S	⑯	PAVEMENT REMOVAL
③	HMA BASE CSE. WIDENING	⑰	AGG. SHOULDERS, TYPE A
④	BITUMINOUS SHOULDER	⑱	GUARDRAIL AGG. EROSION CONTROL
⑤	V-GUTTER	⑲	PRECAST CONC. BOX CULVERT 8'X6'
⑥	GUARDRAIL (TO BE REMOVED)	⑳	POROUS GRANULAR BACKFILL
		㉑	SUBBASE GRANULAR MATERIAL
		㉒	PAVEMENT PATCHING, TYPE IV, 12"
		㉓	STEEL PLATE BEAM GUARDRAIL, TYPE A 6' POSTS
		㉔	PERMANENT SHEET PILING
		㉕	STONE RIPRAP

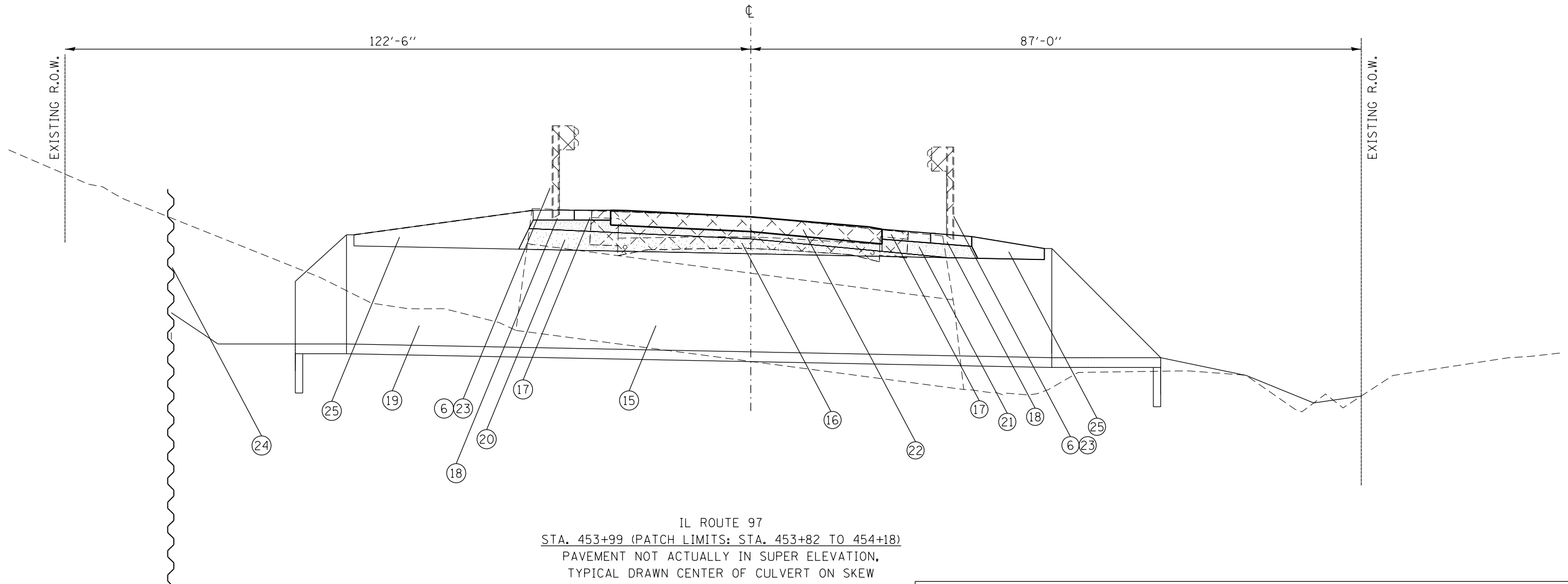
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	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING / PROPOSED TYPICAL SECTIONS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
622	(127)CR	FULTON	40	9
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



IL ROUTE 97  
 STA. 453+99 (PATCH LIMITS: STA. 453+82 TO 454+18)  
 PAVEMENT NOT ACTUALLY IN SUPER ELEVATION,  
 TYPICAL DRAWN CENTER OF CULVERT ON SKEW

**\*NOTE:**  
 SUPERELEVATION LIMITS  
 P.C. STA. 442+00  
 P.T. STA. 451+38.08

LEGEND	
EXISTING	PROPOSED
① 9-6-9 PCC PAVEMENT	⑮ BOX CULVERT REMOVAL
② 5''± HMA OVERLAY'S	⑯ PAVEMENT REMOVAL
③ HMA BASE CSE. WIDENING	⑰ AGG. SHOULDERS, TYPE A
④ BITUMINOUS SHOULDER	⑱ GUARDRAIL AGG. EROSION CONTROL
⑤ V-GUTTER	⑲ PRECAST CONC. BOX CULVERT 8'X6'
⑥ GUARDRAIL (TO BE REMOVED)	⑳ POROUS GRANULAR BACKFILL
	㉑ SUBBASE GRANULAR MATERIAL
	㉒ PAVEMENT PATCHING, TYPE IV, 12''
	㉓ STEEL PLATE BEAM GUARDRAIL, TYPE A 6' POSTS
	㉔ PERMANENT SHEET PILING
	㉕ STONE RIPRAP

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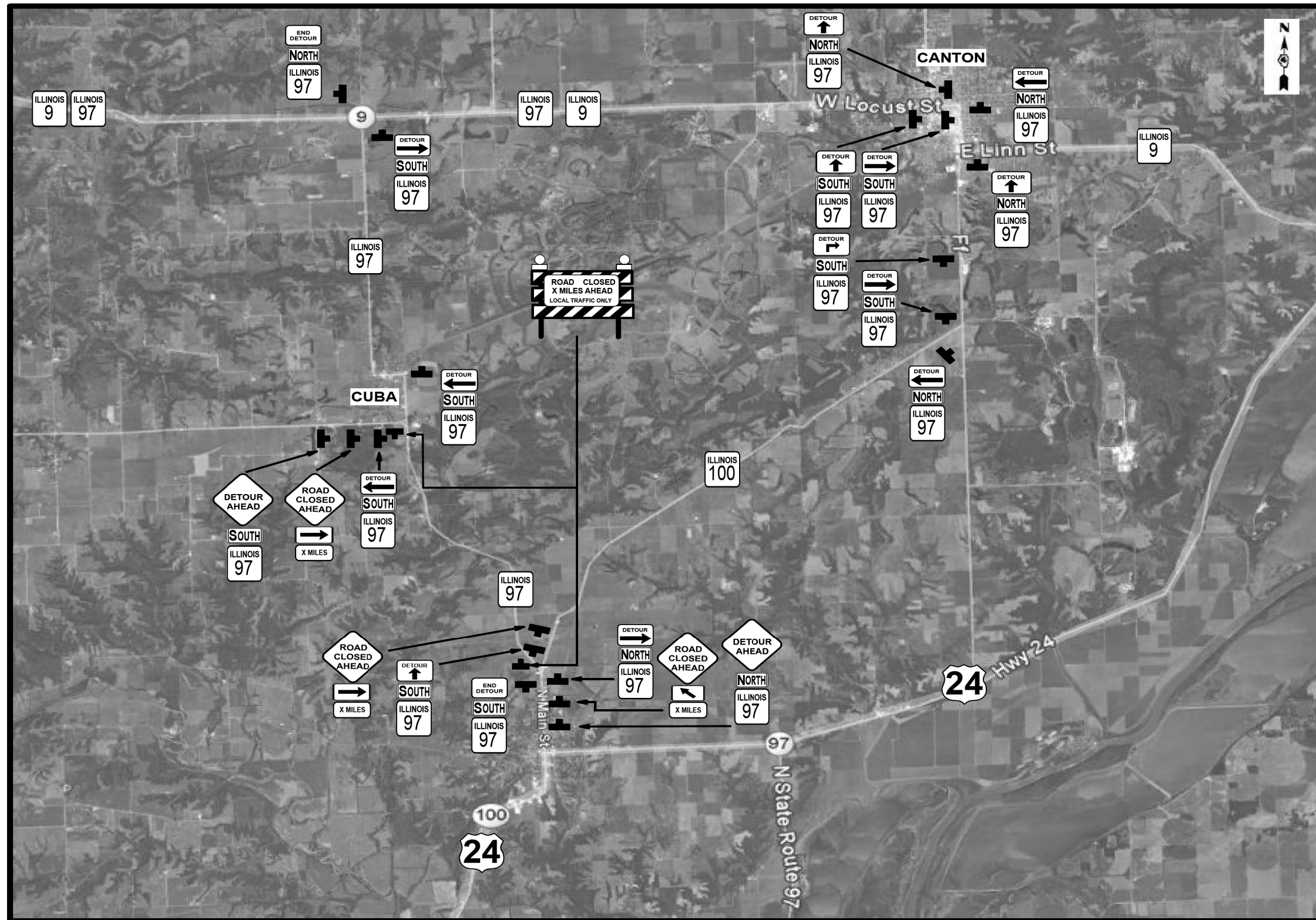
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING / PROPOSED TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
622	(127)CR	FULTON	40	10
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



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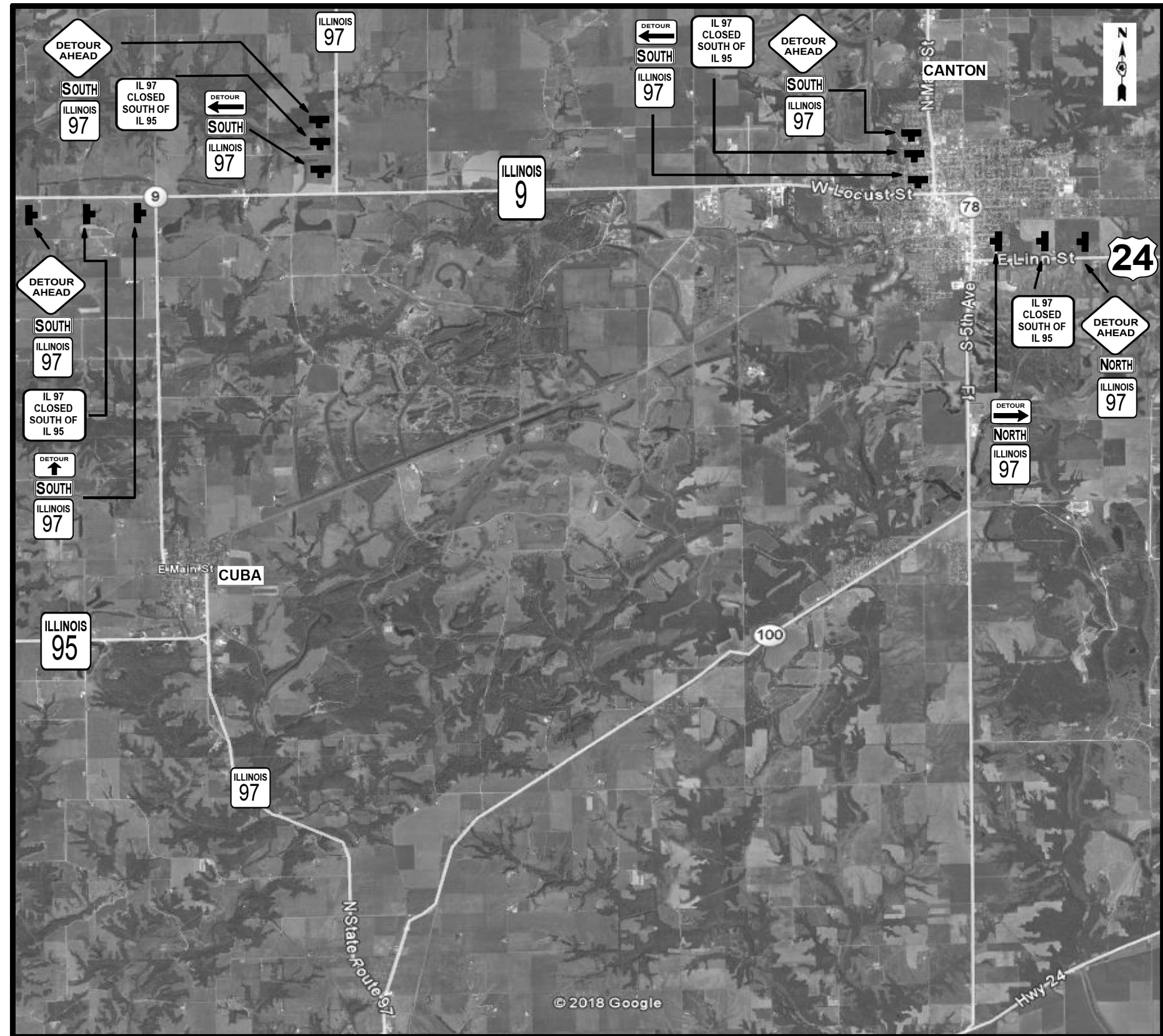
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PLOT DATE = 5/18/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
622	(127)CR	FULTON	40	11
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



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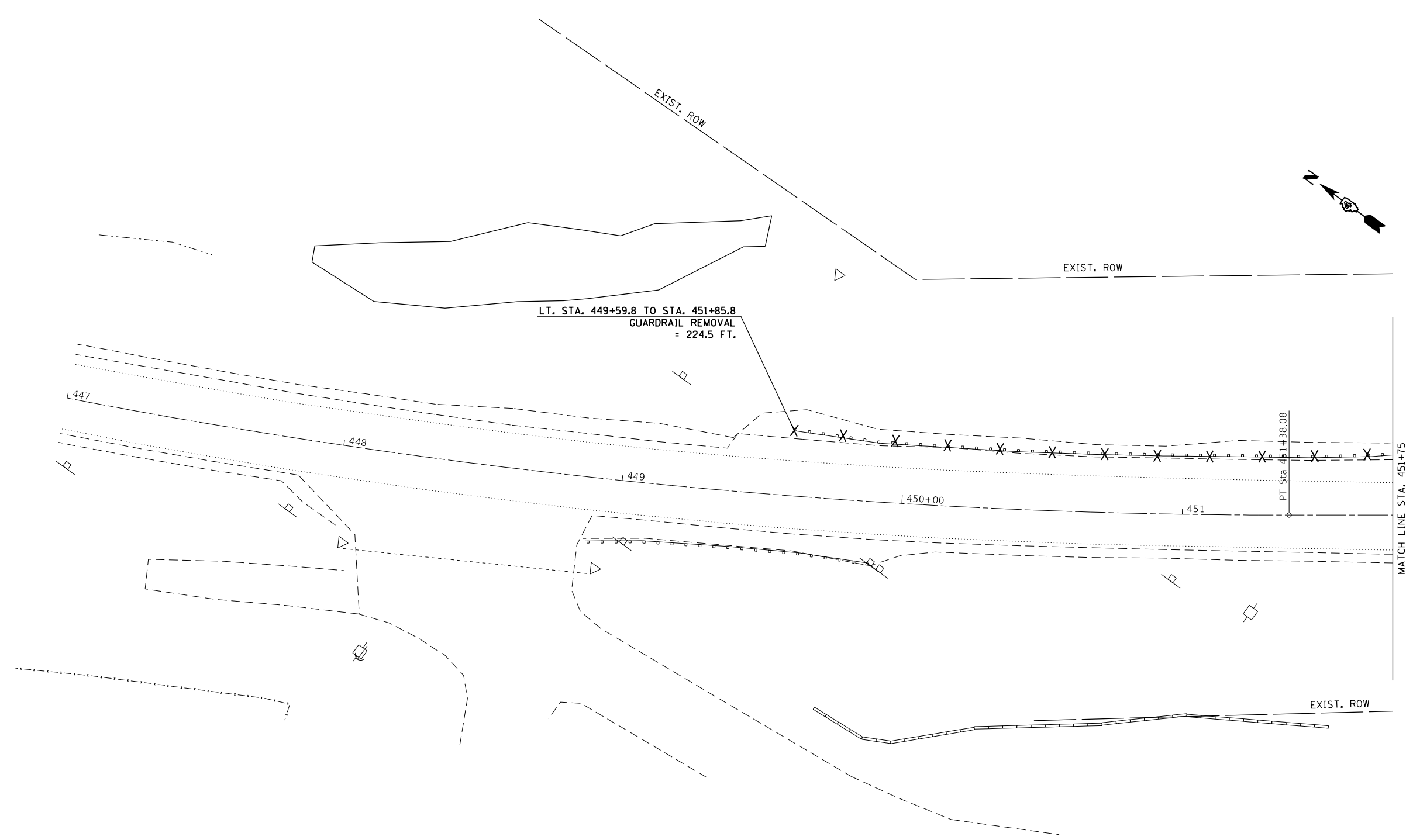
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN**

SCALE: SHEET OF 40 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				



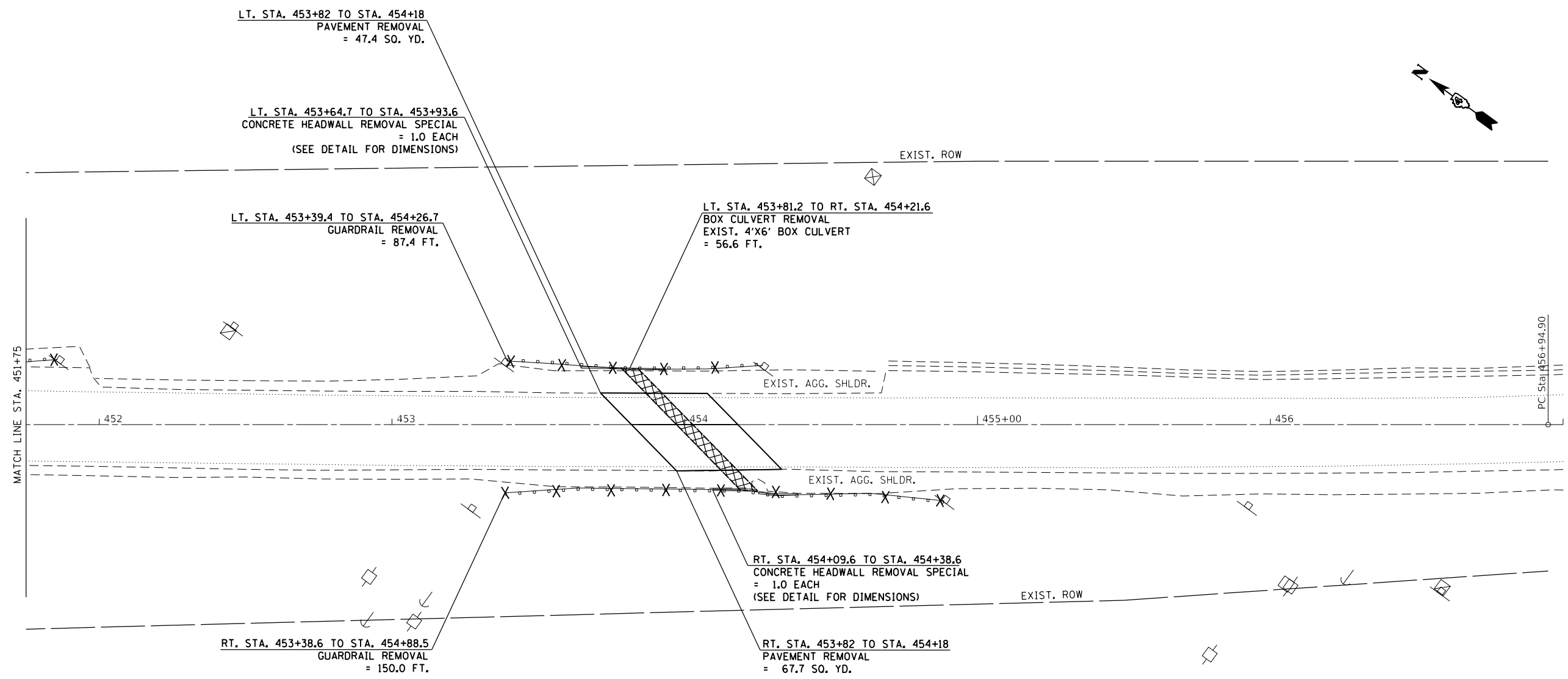
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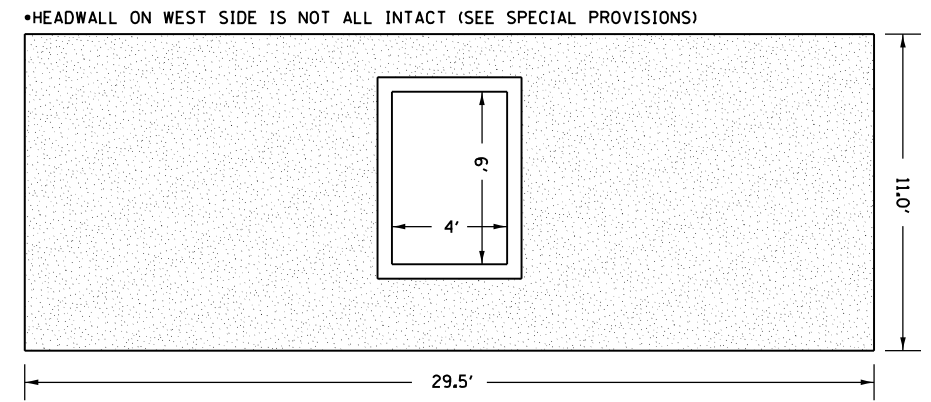
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLAN</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

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622	(127)CR	FULTON	40	13
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



EXIST. HEADWALL REMOVAL DETAIL  
(TYP. FOR EAST AND WEST SIDE)



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	DATE -	REVISED -

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

SCALE:		SHEET OF SHEETS		STA.	TO STA.

**REMOVAL PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
622	(127)CR	FULTON	40	14
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



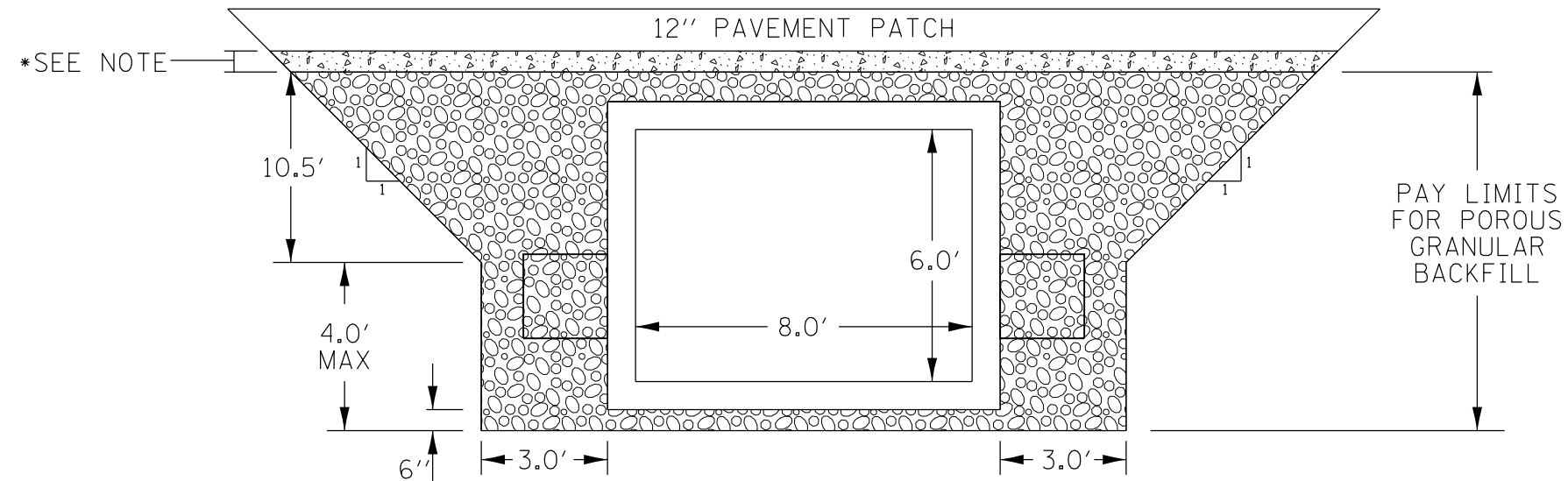




# ROADWAY PROFILE VIEW

**\*NOTE:**

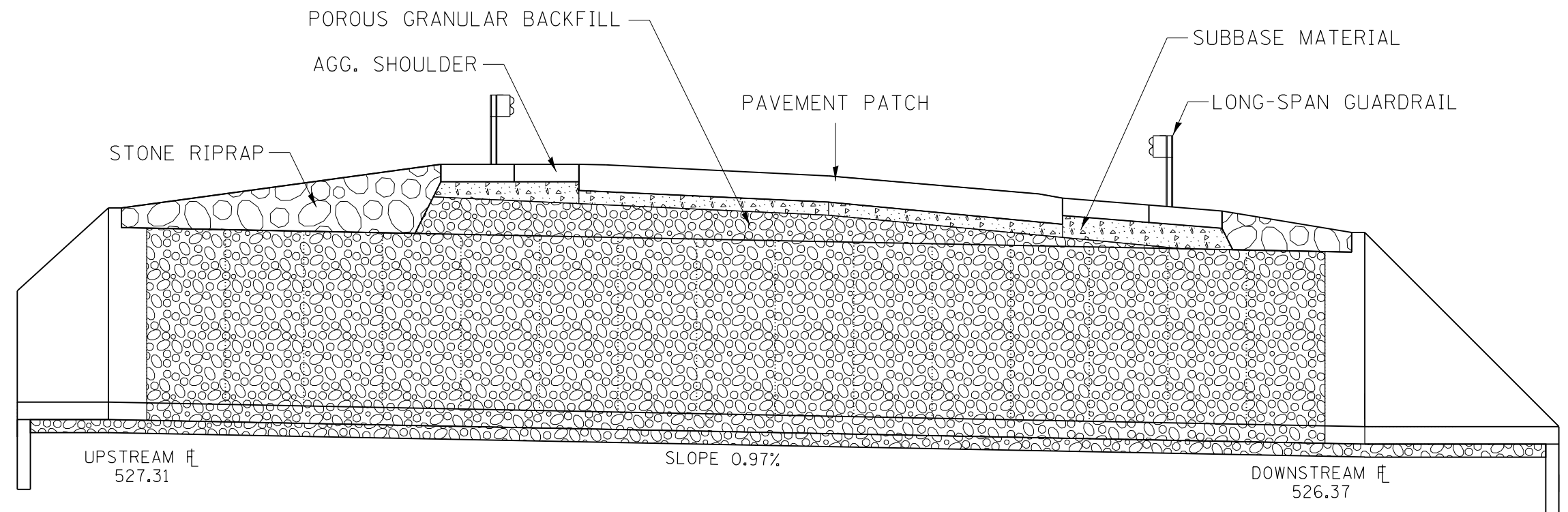
SUBBASE SHALL BE 6" MINIMUM LAYER OF CA6 CRUSHED STONE OR OTHER MATERIAL AS SPECIFIED IN THE PLANS.



# ROADWAY CROSS SECTION VIEW

**NOTES:**

- EXCEPT AS SPECIFIED IN THIS DETAIL, THE PLACEMENT AND COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS.
- POROUS GRANULAR BACKFILL SHALL BE PLACED IN ACCORDANCE WITH SECTION 207 OF THE STANDARD SPECIFICATIONS.
- A 6" MINIMUM LAYER OF POROUS GRANULAR BACKFILL SHALL BE PLACED BELOW THE ELEVATION OF THE BOTTOM OF BOX CULVERT.



MODEL: Default  
 FILE: \\paulbaebid\nteg\illinois\proj\p\dot\document\dot\office\detail\p\project\04\_68E09\CADD\01\CAD\sheet\0468E09-rc-detail.dgn

USER NAME = bergsieker	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 5/18/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT EXCAVATION AND BACKFILL DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
622	(127)CR	FULTON	40	17
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of 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.

Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

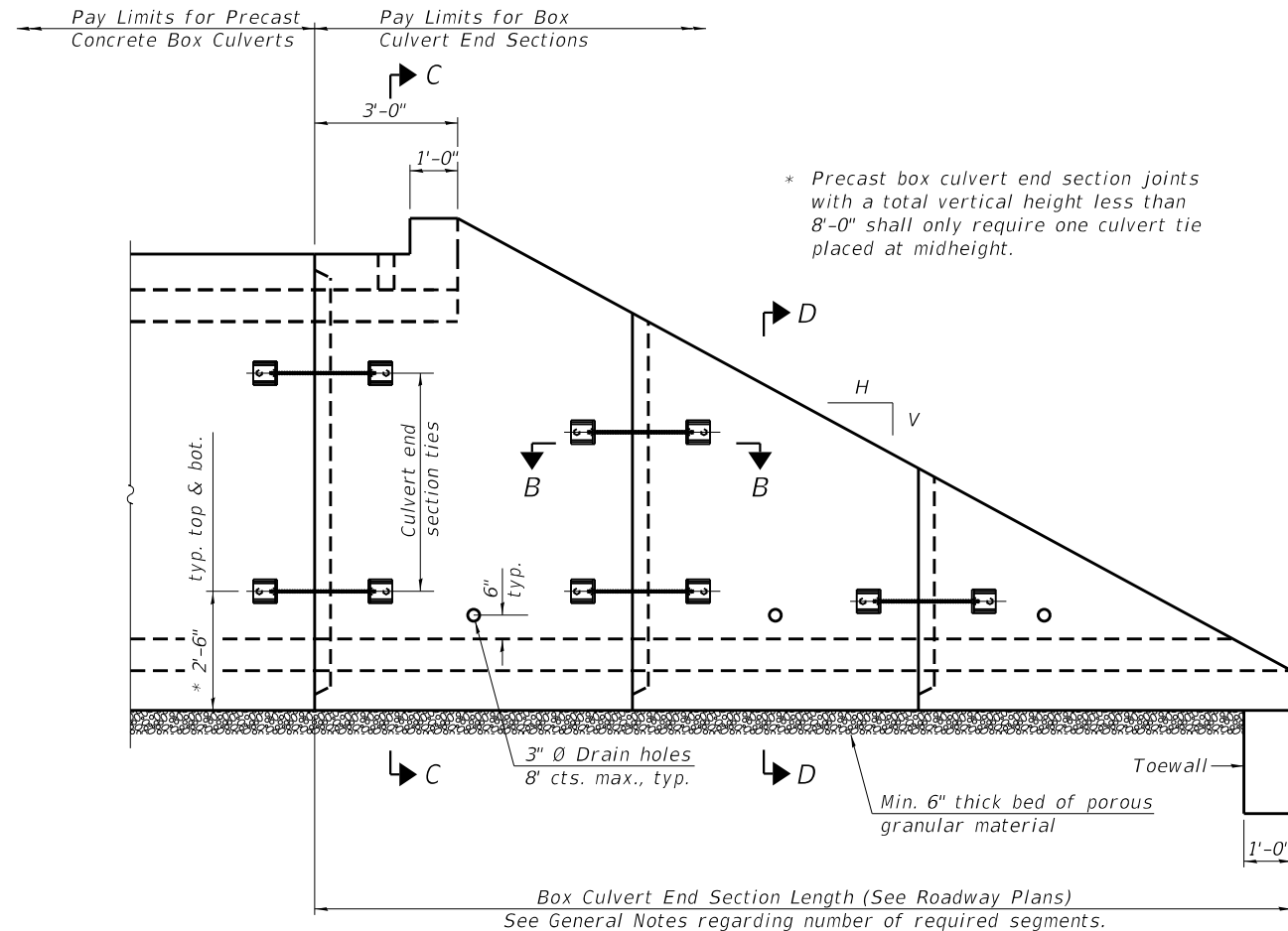
2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

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 contract unit price for Box Culvert End Sections of the culvert number specified.

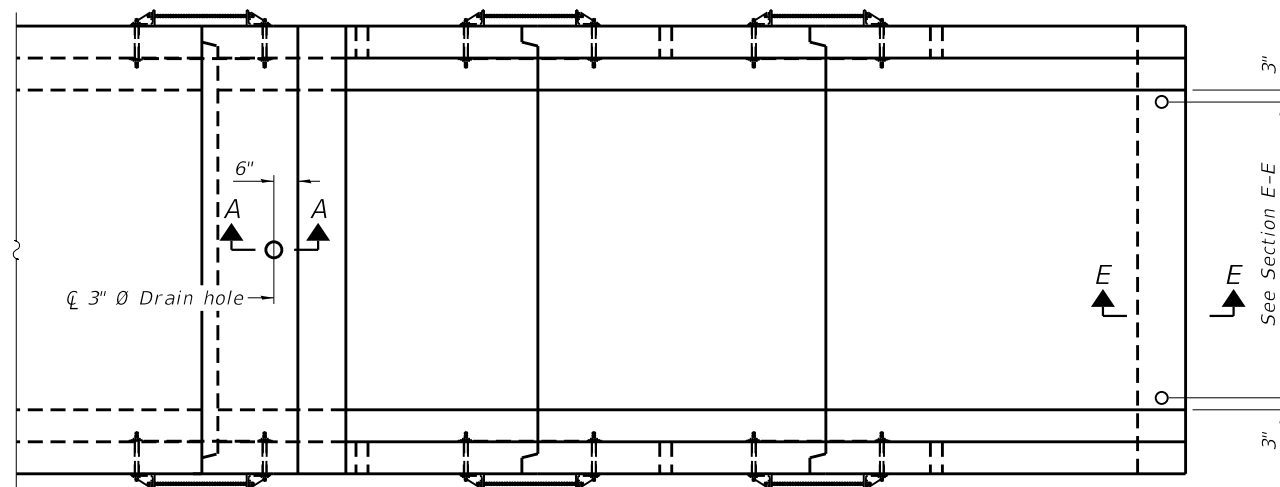
Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..

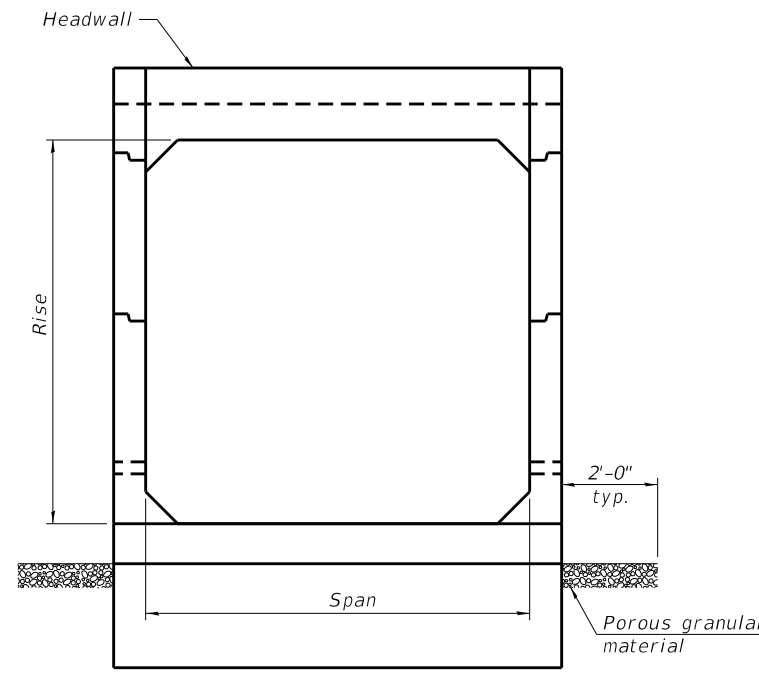
For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.



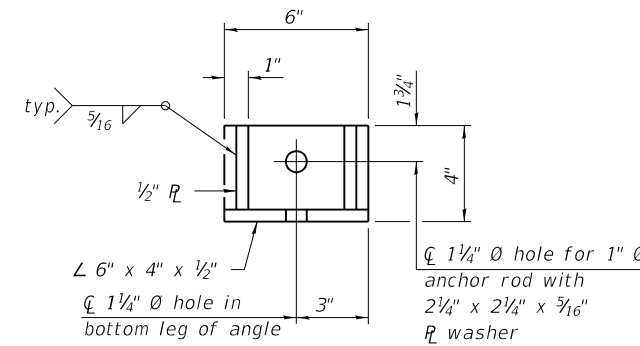
**ELEVATION**



**PLAN**



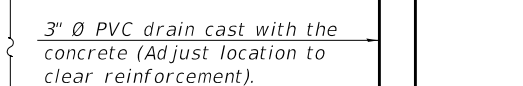
**END VIEW**



**RESTRAINT ANGLE DETAIL**

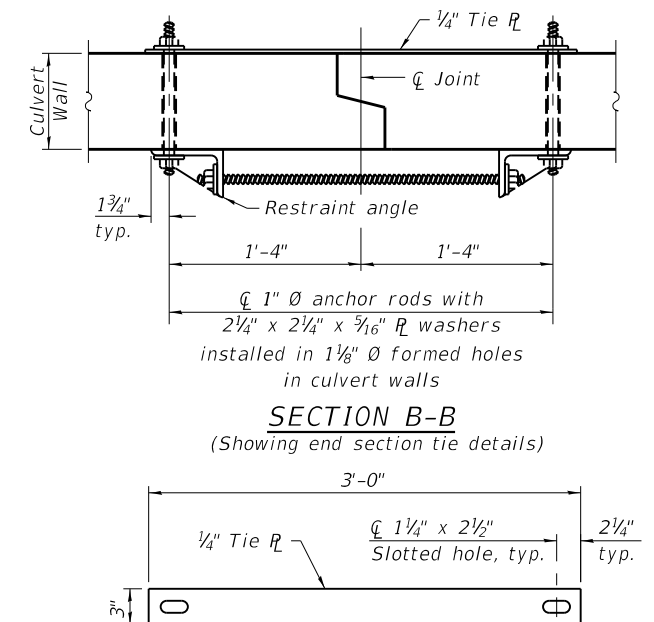
12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.



**SECTION A-A**

(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.) (Sheet 1 of 2)



**TIE PLATE DETAIL**

**SECTION B-B**  
(Showing end section tie details)

SCB-TES

2-17-2017

USER NAME = bergsjekerae	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/18/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

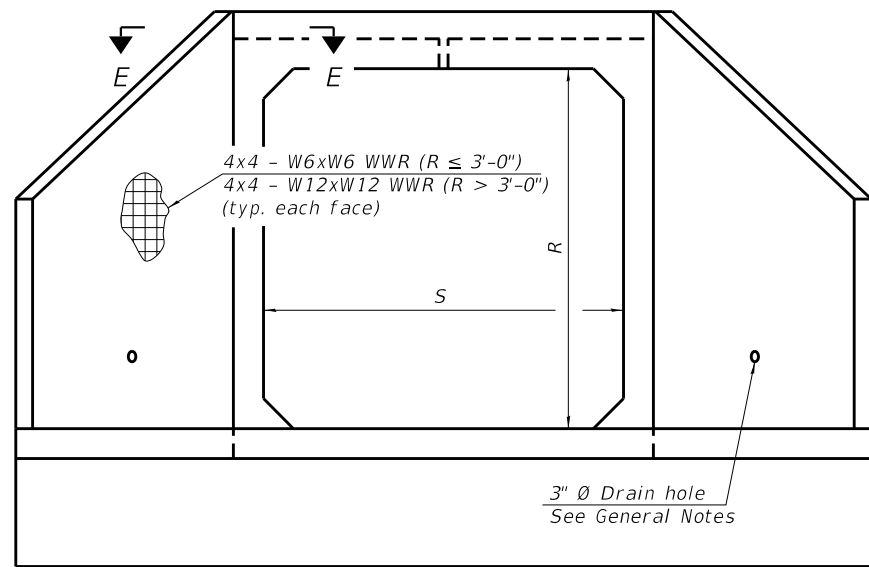
**SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTION DETAIL  
(PROPOSED STRUCTURE NO. 029-2013)**

SCALE: SHEET OF SHEETS STA. TO STA.

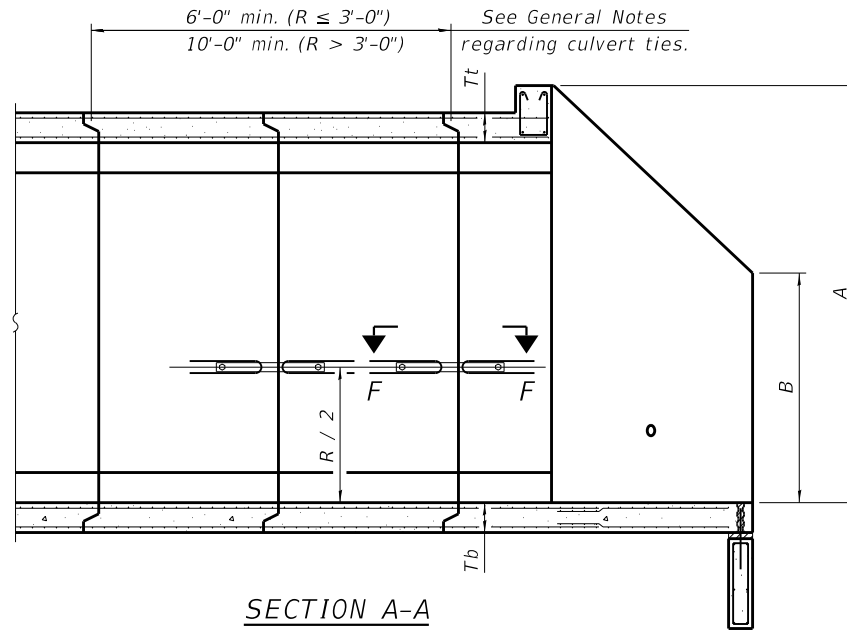
F.A.P. RTE. 622	SECTION (127)CR	COUNTY FULTON	TOTAL SHEETS 40	SHEET NO. 18
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
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 OFFICE: IDI/ETC  
 DATE: 5/18/2018





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 in 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 <sup>5</sup> / <sub>8</sub> "	4'-1"	10'-4 <sup>5</sup> / <sub>8</sub> "	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 <sup>1</sup> / <sub>8</sub> "	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 <sup>3</sup> / <sub>8</sub> "	5'-6"	12'-4 <sup>3</sup> / <sub>8</sub> "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 <sup>1</sup> / <sub>8</sub> "	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 <sup>1</sup> / <sub>2</sub> "	2'-2 <sup>1</sup> / <sub>2</sub> "	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 <sup>1</sup> / <sub>2</sub> "	3'-10"	11'-2 <sup>3</sup> / <sub>8</sub> "	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 <sup>1</sup> / <sub>2</sub> "	2'-8 <sup>1</sup> / <sub>2</sub> "	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	13'-8 <sup>1</sup> / <sub>8</sub> "	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 <sup>1</sup> / <sub>2</sub> "	5'-3"	13'-2 <sup>3</sup> / <sub>8</sub> "	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 <sup>1</sup> / <sub>2</sub> "	3'-2 <sup>1</sup> / <sub>2</sub> "	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	15'-8 <sup>1</sup> / <sub>8</sub> "	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 <sup>3</sup> / <sub>8</sub> "	6'-8"	15'-2 <sup>1</sup> / <sub>2</sub> "	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 <sup>1</sup> / <sub>4</sub> "	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	14'-10 <sup>1</sup> / <sub>8</sub> "	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 <sup>1</sup> / <sub>4</sub> "	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	16'-10 <sup>1</sup> / <sub>8</sub> "	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 <sup>1</sup> / <sub>4</sub> "	6'-9"	16'-5 <sup>7</sup> / <sub>8</sub> "	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	18'-10 <sup>1</sup> / <sub>8</sub> "	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 <sup>1</sup> / <sub>4</sub> "	8'-2"	18'-5 <sup>7</sup> / <sub>8</sub> "	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 <sup>3</sup> / <sub>8</sub> "	4'-1"	13'-10 <sup>3</sup> / <sub>8</sub> "	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	16'-0 <sup>1</sup> / <sub>8</sub> "	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 <sup>5</sup> / <sub>8</sub> "	5'-6"	15'-10 <sup>5</sup> / <sub>8</sub> "	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	18'-0 <sup>3</sup> / <sub>8</sub> "	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 <sup>3</sup> / <sub>4</sub> "	6'-11"	17'-10 <sup>3</sup> / <sub>4</sub> "	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	20'-0 <sup>1</sup> / <sub>8</sub> "	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 <sup>3</sup> / <sub>4</sub> "	8'-4"	19'-10 <sup>3</sup> / <sub>4</sub> "	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	22'-0 <sup>1</sup> / <sub>4</sub> "	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 <sup>3</sup> / <sub>4</sub> "	9'-9"	21'-10 <sup>3</sup> / <sub>4</sub> "	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	17'-2 <sup>1</sup> / <sub>8</sub> "	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	19'-2 <sup>1</sup> / <sub>8</sub> "	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	21'-2 <sup>1</sup> / <sub>8</sub> "	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	23'-2 <sup>1</sup> / <sub>4</sub> "	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	18'-2 <sup>1</sup> / <sub>8</sub> "	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	20'-2 <sup>1</sup> / <sub>8</sub> "	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	22'-2 <sup>1</sup> / <sub>8</sub> "	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	24'-2 <sup>1</sup> / <sub>4</sub> "	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 <sup>3</sup> / <sub>4</sub> "	4'-4"	17'-6 <sup>7</sup> / <sub>8</sub> "	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 <sup>3</sup> / <sub>4</sub> "	5'-9"	19'-6 <sup>7</sup> / <sub>8</sub> "	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 <sup>3</sup> / <sub>4</sub> "	7'-2"	21'-6 <sup>7</sup> / <sub>8</sub> "	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 <sup>3</sup> / <sub>8</sub> "	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 <sup>3</sup> / <sub>8</sub> "	9'-11"	25'-5 <sup>5</sup> / <sub>8</sub> "	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 <sup>1</sup> / <sub>2</sub> "	4'-5"	18'-10 <sup>1</sup> / <sub>4</sub> "	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 <sup>1</sup> / <sub>2</sub> "	5'-10"	20'-10 <sup>1</sup> / <sub>4</sub> "	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 <sup>1</sup> / <sub>2</sub> "	7'-3"	22'-10 <sup>3</sup> / <sub>8</sub> "	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 <sup>1</sup> / <sub>2</sub> "	8'-8"	24'-10 <sup>3</sup> / <sub>8</sub> "	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 <sup>1</sup> / <sub>2</sub> "	10'-1"	26'-10 <sup>3</sup> / <sub>8</sub> "	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 <sup>7</sup> / <sub>8</sub> "	4'-7"	20'-3 <sup>1</sup> / <sub>8</sub> "	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 <sup>7</sup> / <sub>8</sub> "	6'-0"	22'-3 <sup>1</sup> / <sub>8</sub> "	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 <sup>1</sup> / <sub>4</sub> "	7'-4"	24'-1 <sup>3</sup> / <sub>4</sub> "	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 <sup>1</sup> / <sub>4</sub> "	8'-9"	26'-1 <sup>3</sup> / <sub>4</sub> "	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 <sup>1</sup> / <sub>4</sub> "	10'-2"	28'-1 <sup>3</sup> / <sub>8</sub> "	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 <sup>3</sup> / <sub>8</sub> "	4'-8"	21'-6 <sup>1</sup> / <sub>2</sub> "	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 <sup>3</sup> / <sub>8</sub> "	6'-1"	23'-6 <sup>1</sup> / <sub>2</sub> "	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 <sup>3</sup> / <sub>8</sub> "	7'-6"	25'-6 <sup>3</sup> / <sub>8</sub> "	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 <sup>3</sup> / <sub>8</sub> "	8'-11"	27'-6 <sup>3</sup> / <sub>8</sub> "	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 <sup>3</sup> / <sub>8</sub> "	10'-4"	29'-6 <sup>3</sup> / <sub>8</sub> "	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

(Sheet 1 of 2)

MODEL: Default  
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 PLOT DATE = 5/18/2018

SCB-AES

2-17-2017

USER NAME = bergsieker	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAIL  
(PROPOSED STRUCTURE NO. 029-2013)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 622	SECTION (127)CR	COUNTY FULTON	TOTAL SHEETS 40	SHEET NO. 20
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



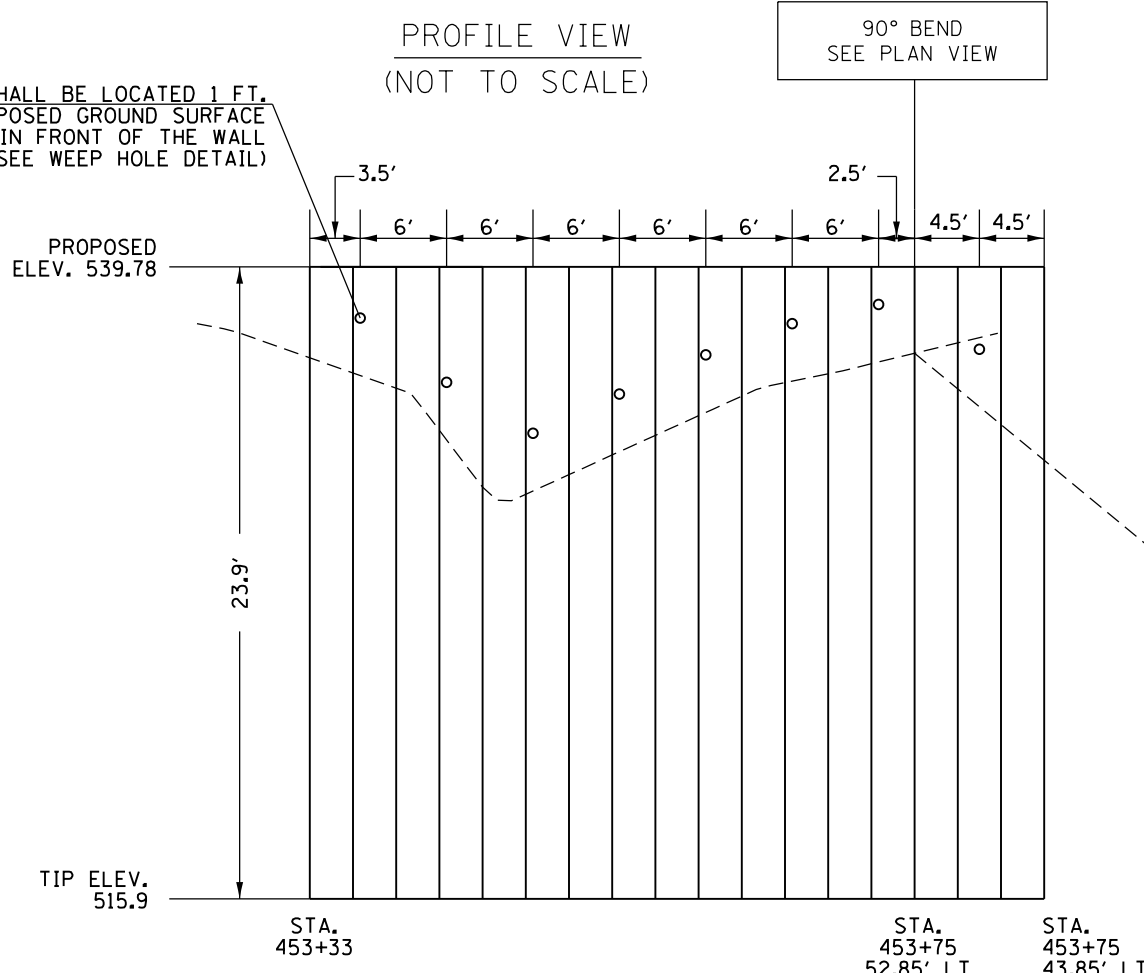
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	FILE NAME	

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4" WEEP HOLES SHALL BE LOCATED 1 FT. ABOVE THE PROPOSED GROUND SURFACE IN FRONT OF THE WALL (SEE WEEP HOLE DETAIL)

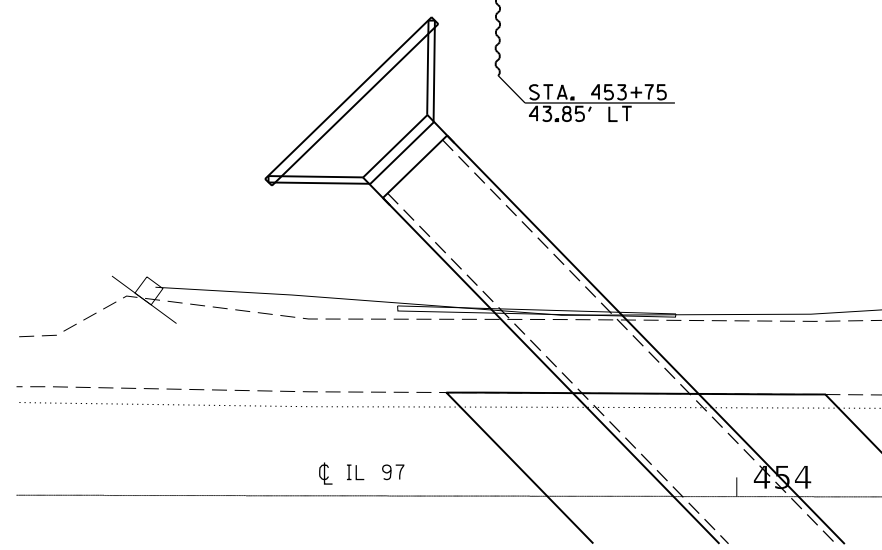
PROFILE VIEW  
(NOT TO SCALE)



STA. 453+33  
43.85' LT

STA. 453+75  
52.85' LT

STA. 453+75  
43.85' LT

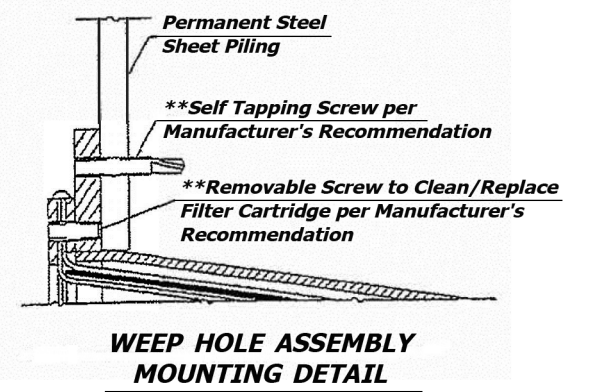
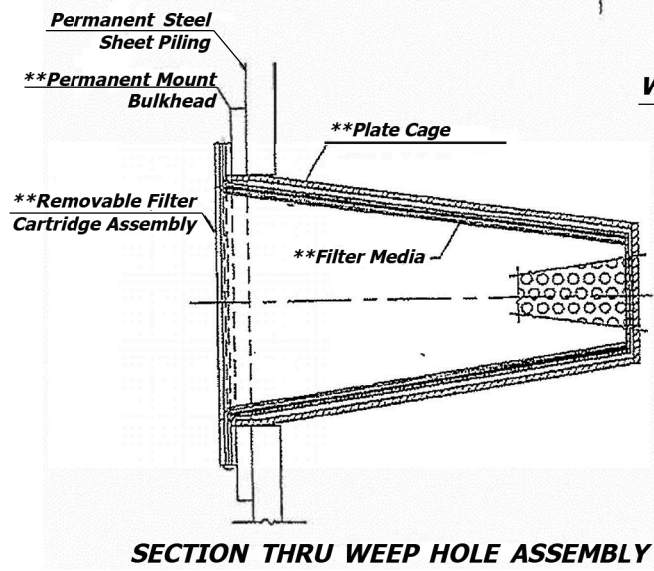
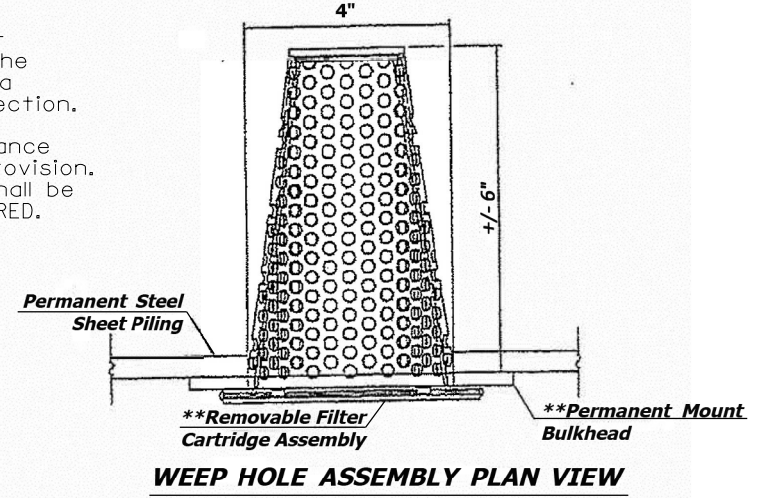
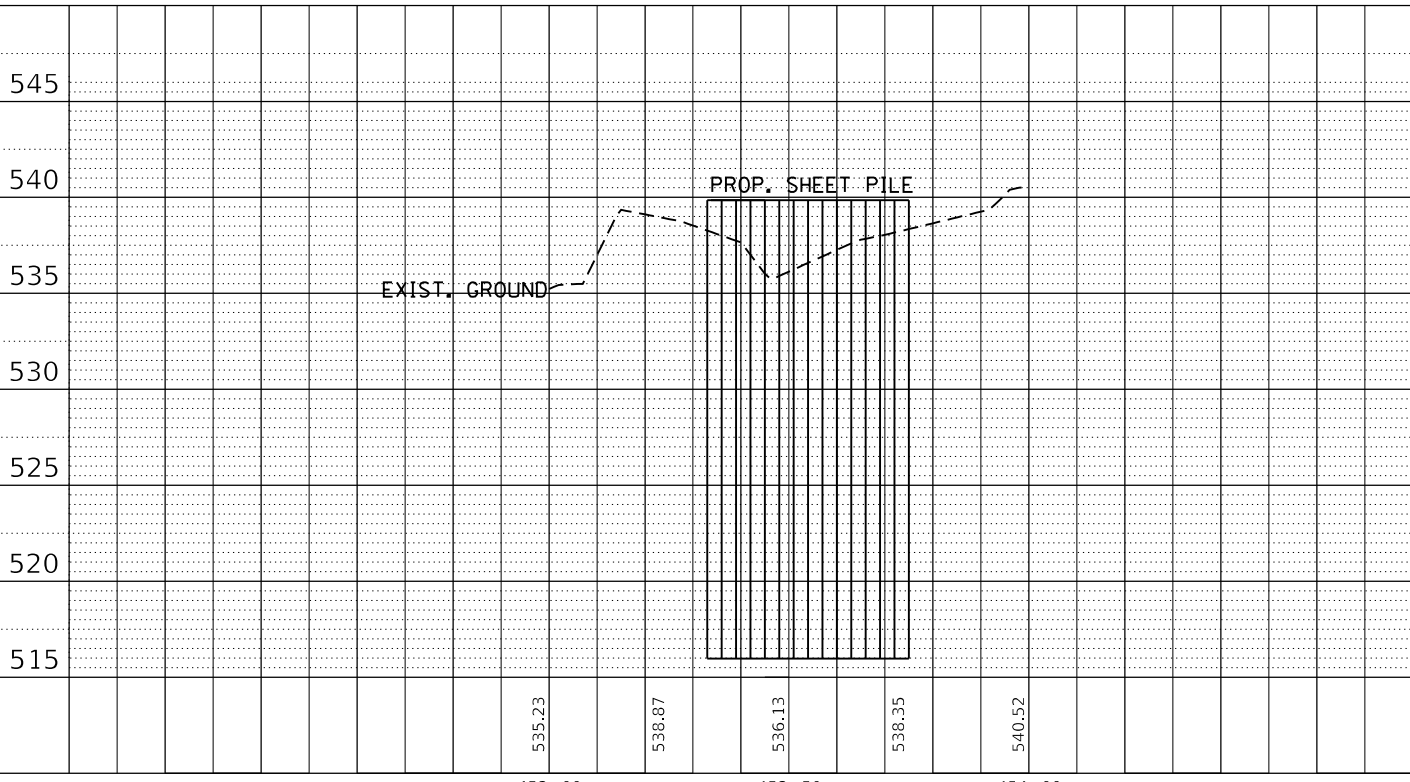


PLAN VIEW  
(NOT TO SCALE)

GENERAL NOTES

Permanent Steel Sheet Piling shall meet requirements of PZ 27 Grade 50 ksi. The recommended section modulus shall be a minimum of 30 in<sup>3</sup>/ft to limit the deflection.

Weep holes shall be installed in accordance with the "WEEP HOLES CORED" special provision. Costs associated with creating hole shall be included in the cost of WEEP HOLES CORED.



\*\*Included in the cost of WEEP HOLES CORED

WEEP HOLE DETAIL  
(NOT TO SCALE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET PILING DETAIL

USER NAME = bergsieker	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/25/2018	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	F.A.P. RTE. 622	SECTION (127)CR	COUNTY FULTON	TOTAL SHEETS 40	SHEET NO. 22
CONTRACT NO. 68E09											
ILLINOIS FED. AID PROJECT											



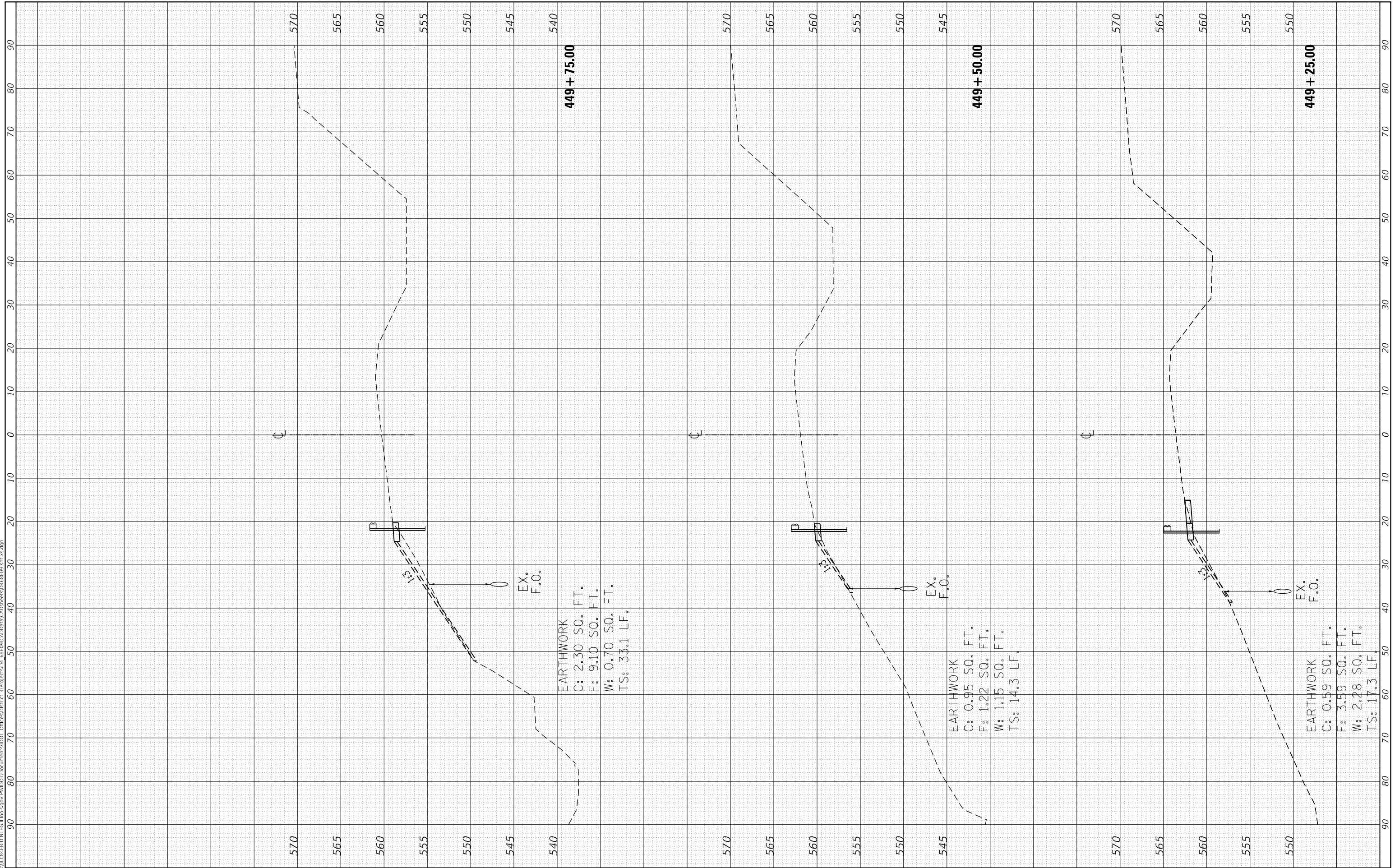




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	DRAWN -	REVISIED -
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PLOT DATE = 5/17/2018	DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 449+25.00 TO STA. 449+75.00

F.A.P. RTE. 622	SECTION (127)CR	COUNTY FULTON	TOTAL SHEETS 40	SHEET NO. 25
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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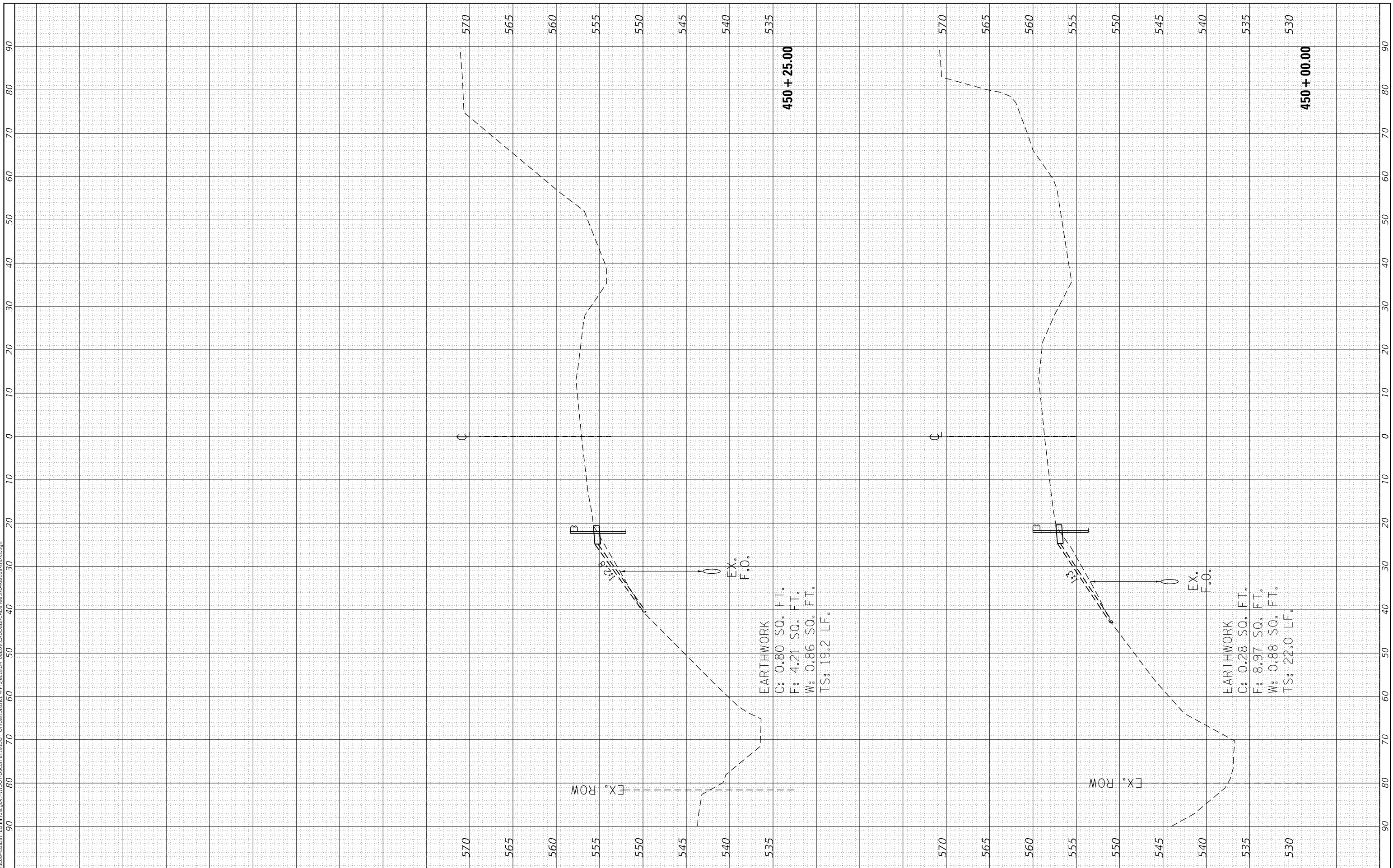
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PLOT DATE = 5/17/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS**

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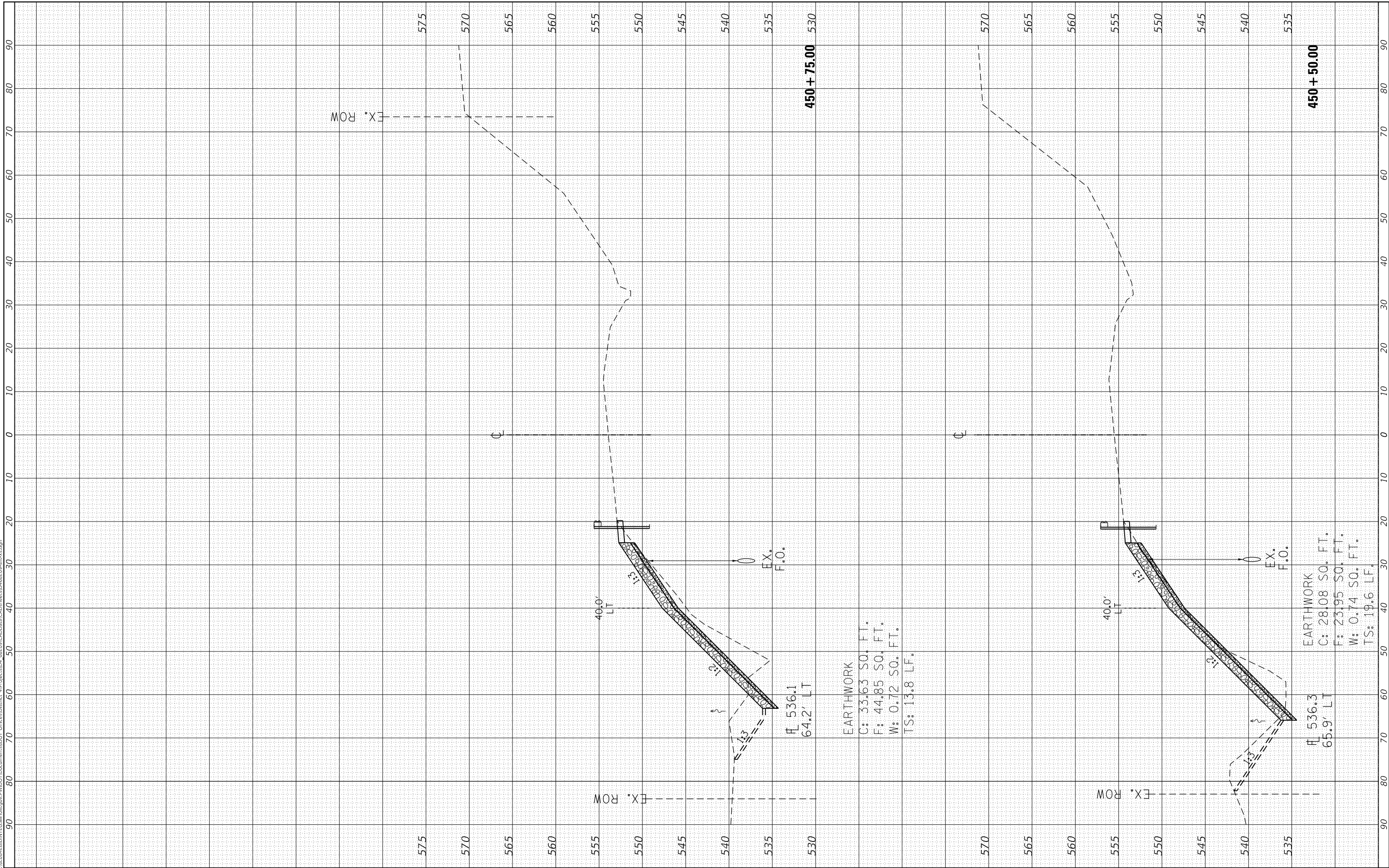
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CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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PLOT SCALE = 20.0000 ' / in.	DRAWN -	REVISD -
PLOT DATE = 5/17/2018	CHECKED -	REVISD -
	DATE -	REVISD -

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS**

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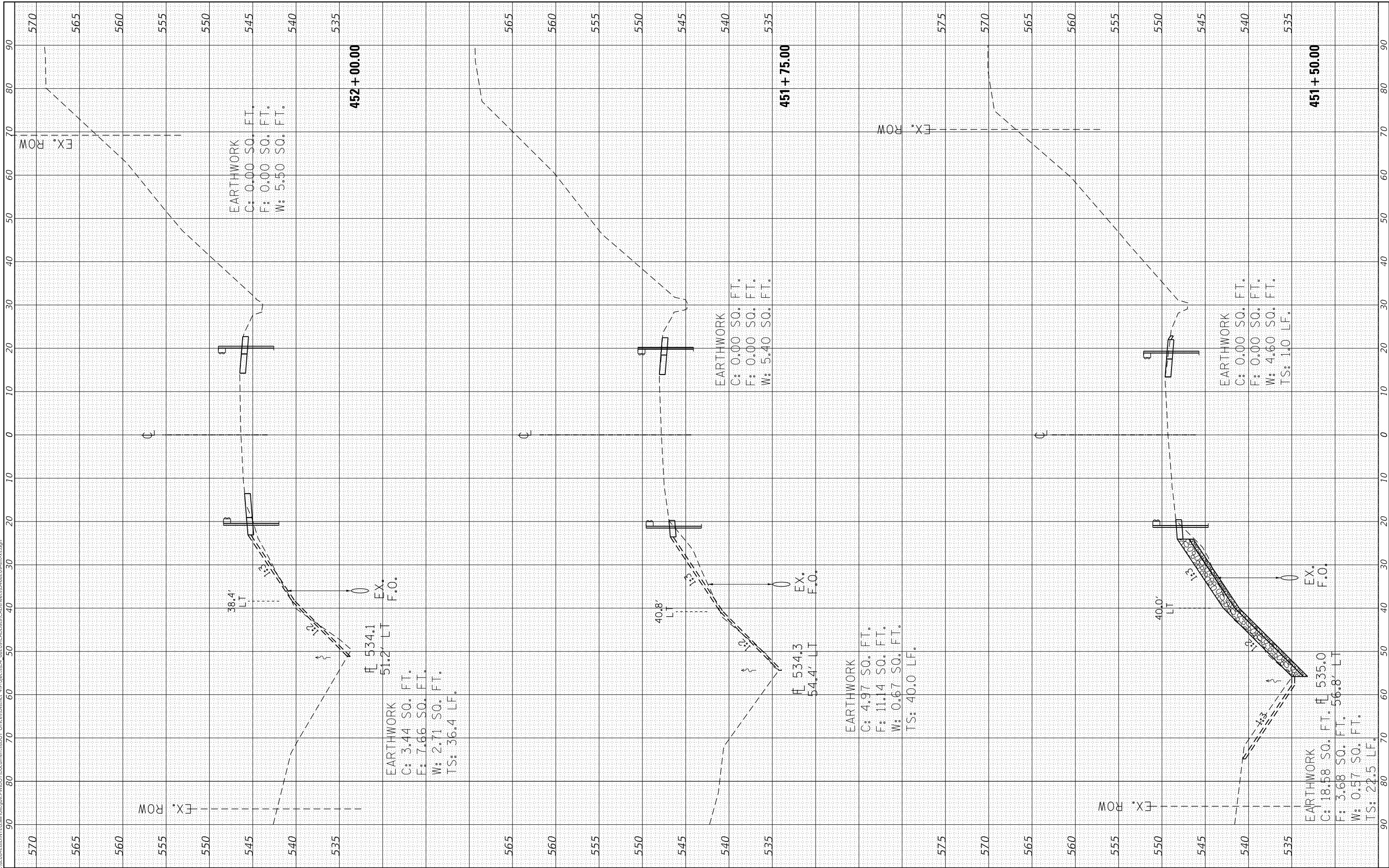
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CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



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NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

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	PLOTTED		
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	AREAS CHECKED		

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REVISED -
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REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS**

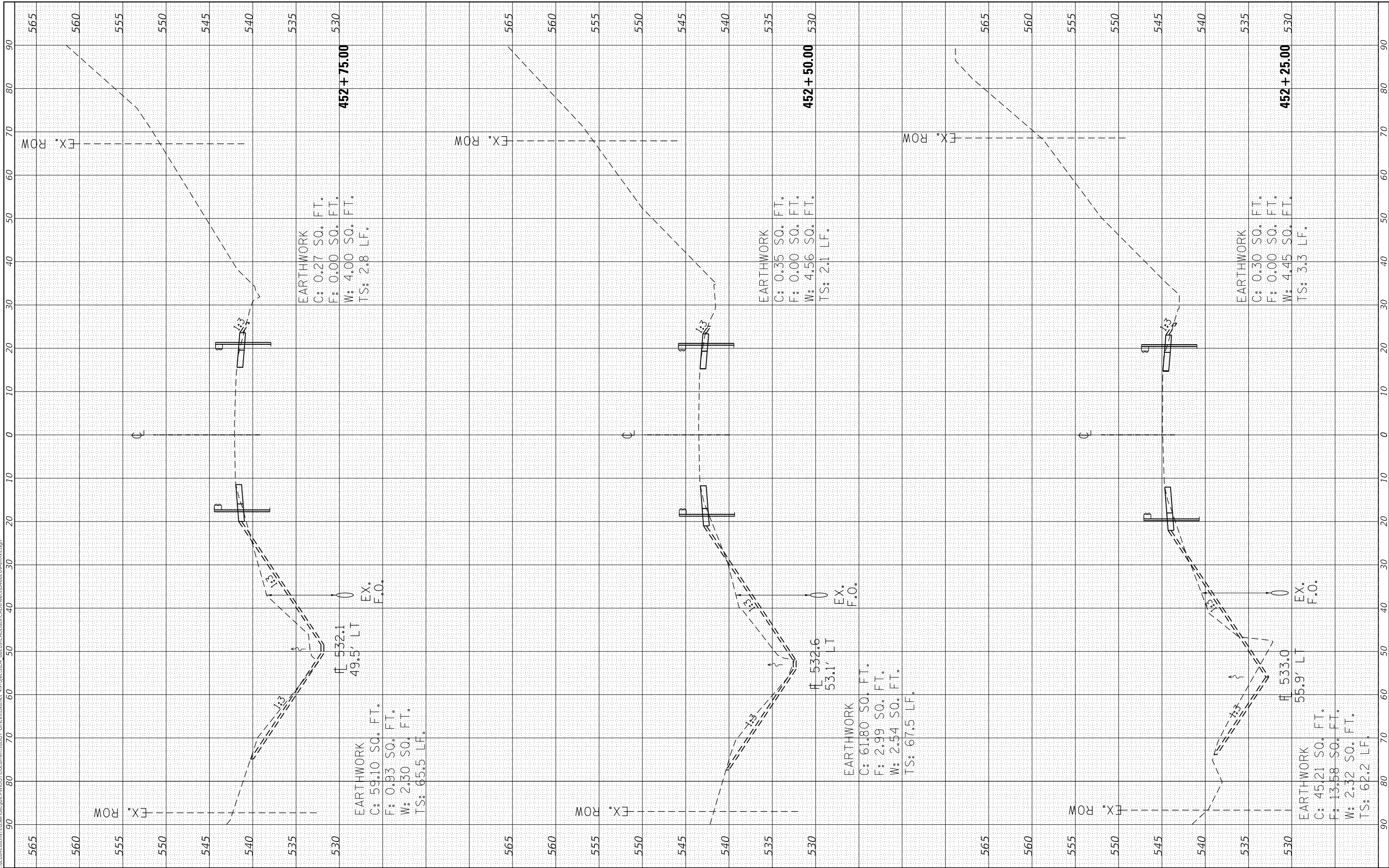
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CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				

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REVISIONS	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS**

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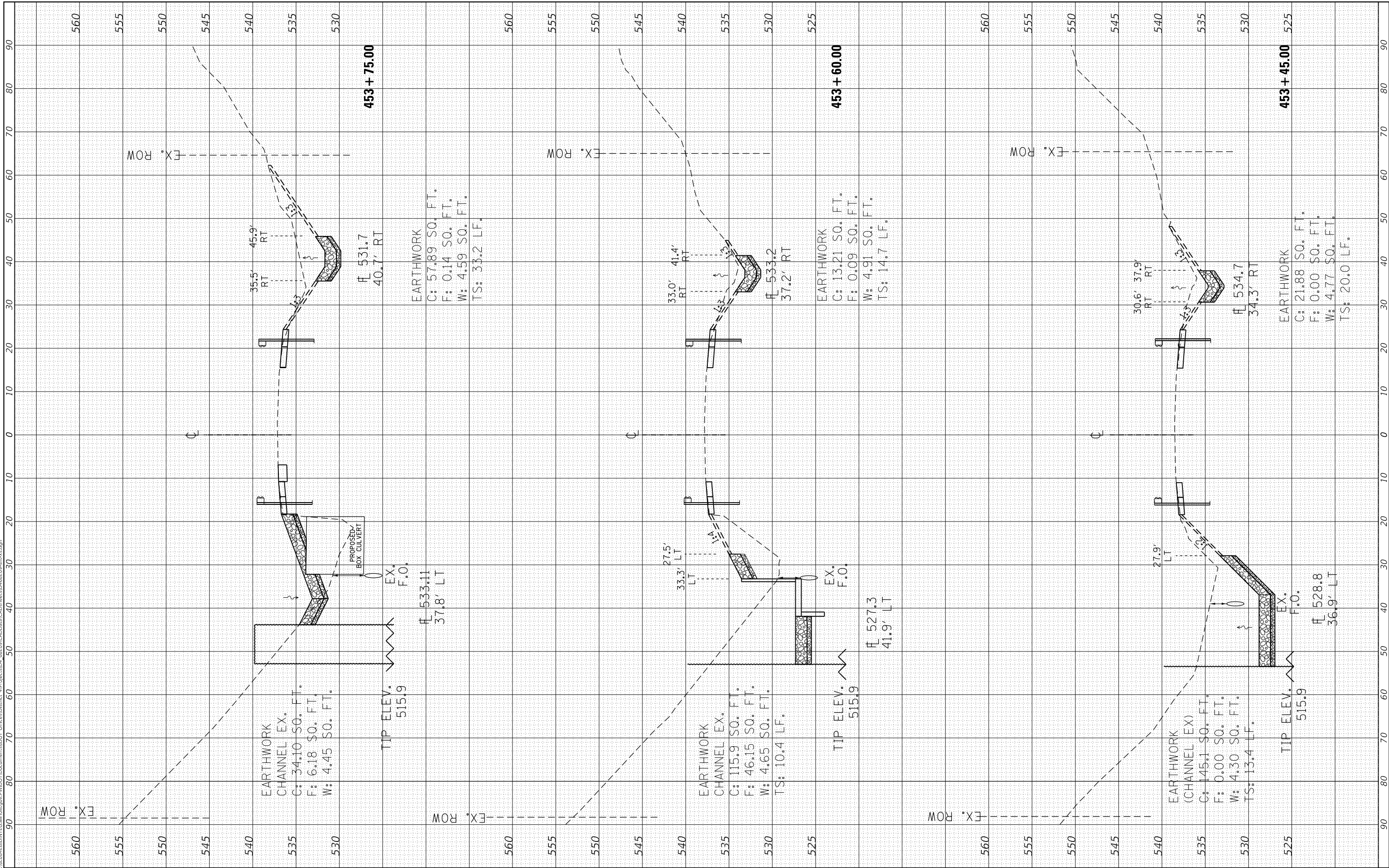
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CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



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REVISIONS	REVISIONS
REVISIONS	REVISIONS
REVISIONS	REVISIONS
REVISIONS	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET OF SHEETS		STA. 453+45.00 TO STA. 453+75.00	
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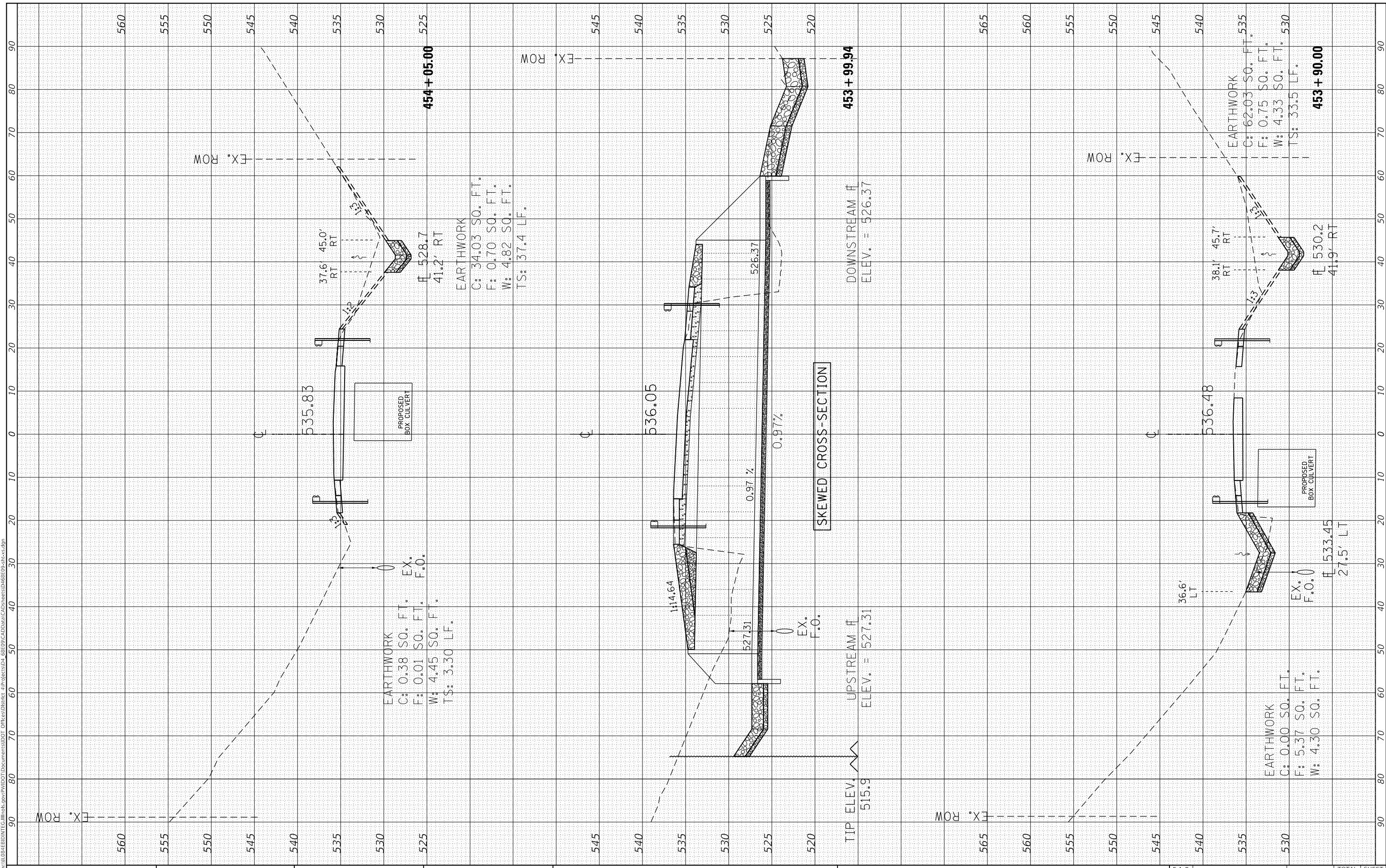
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CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS**

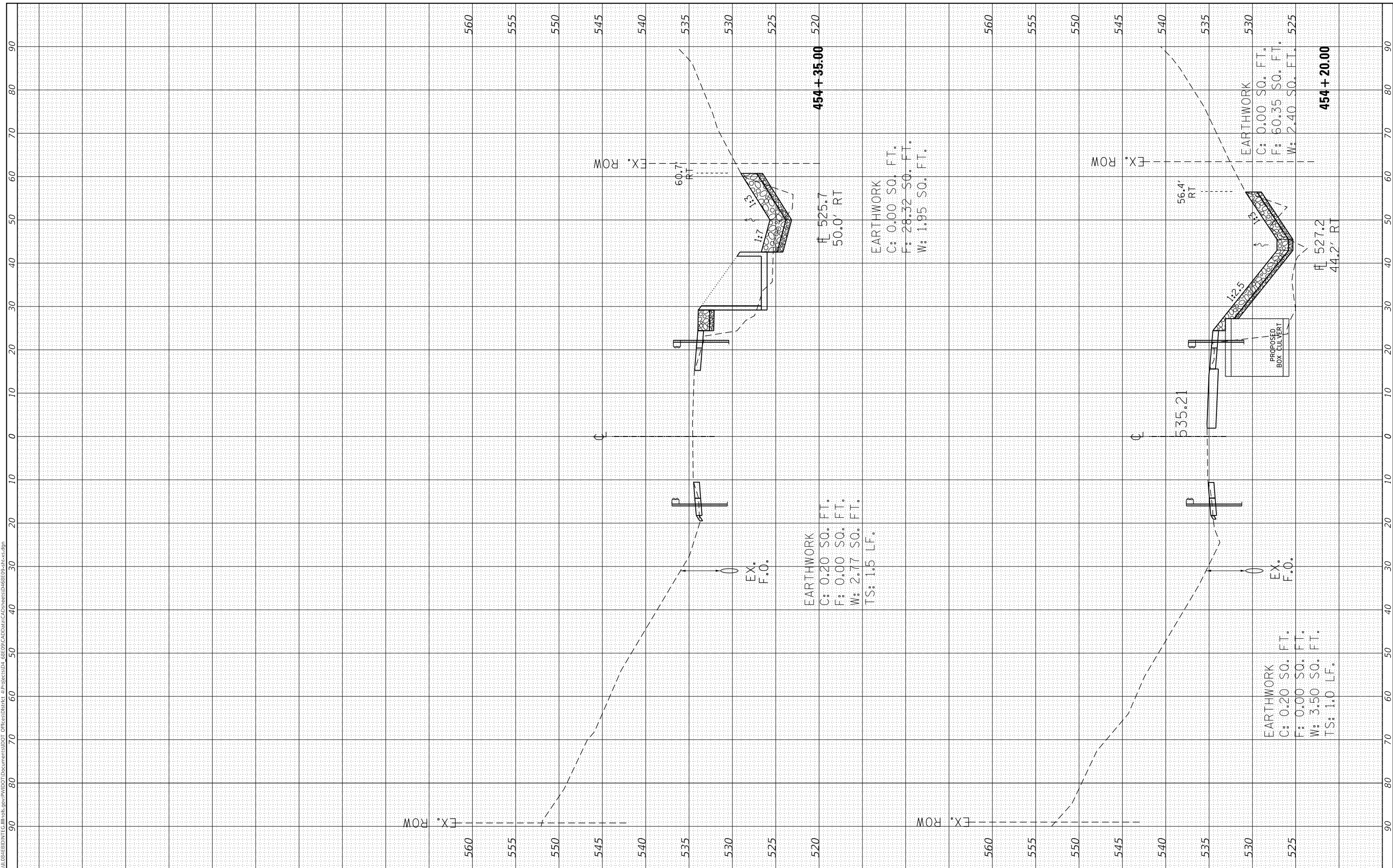
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CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				

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

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	DATE -	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

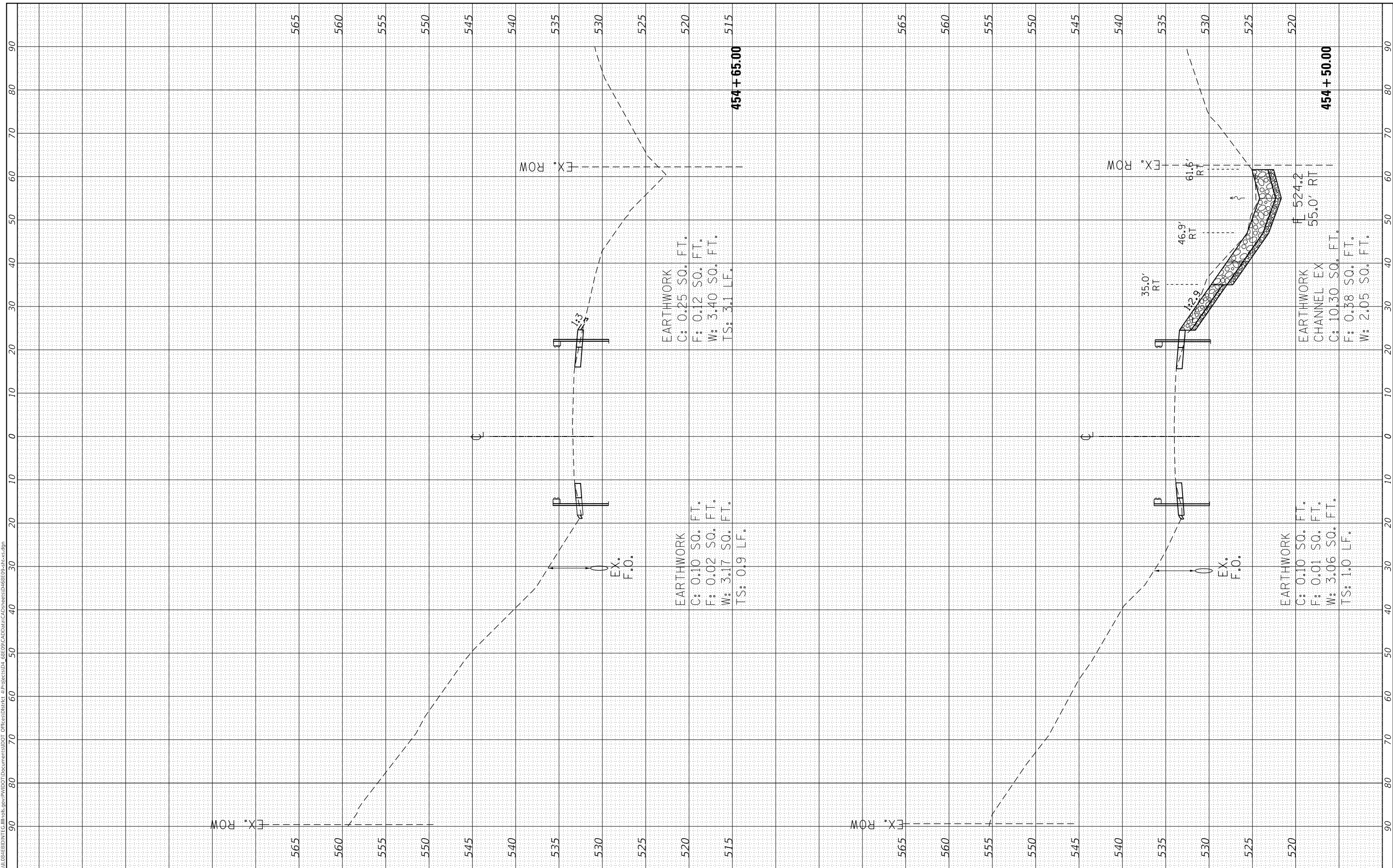
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CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS**

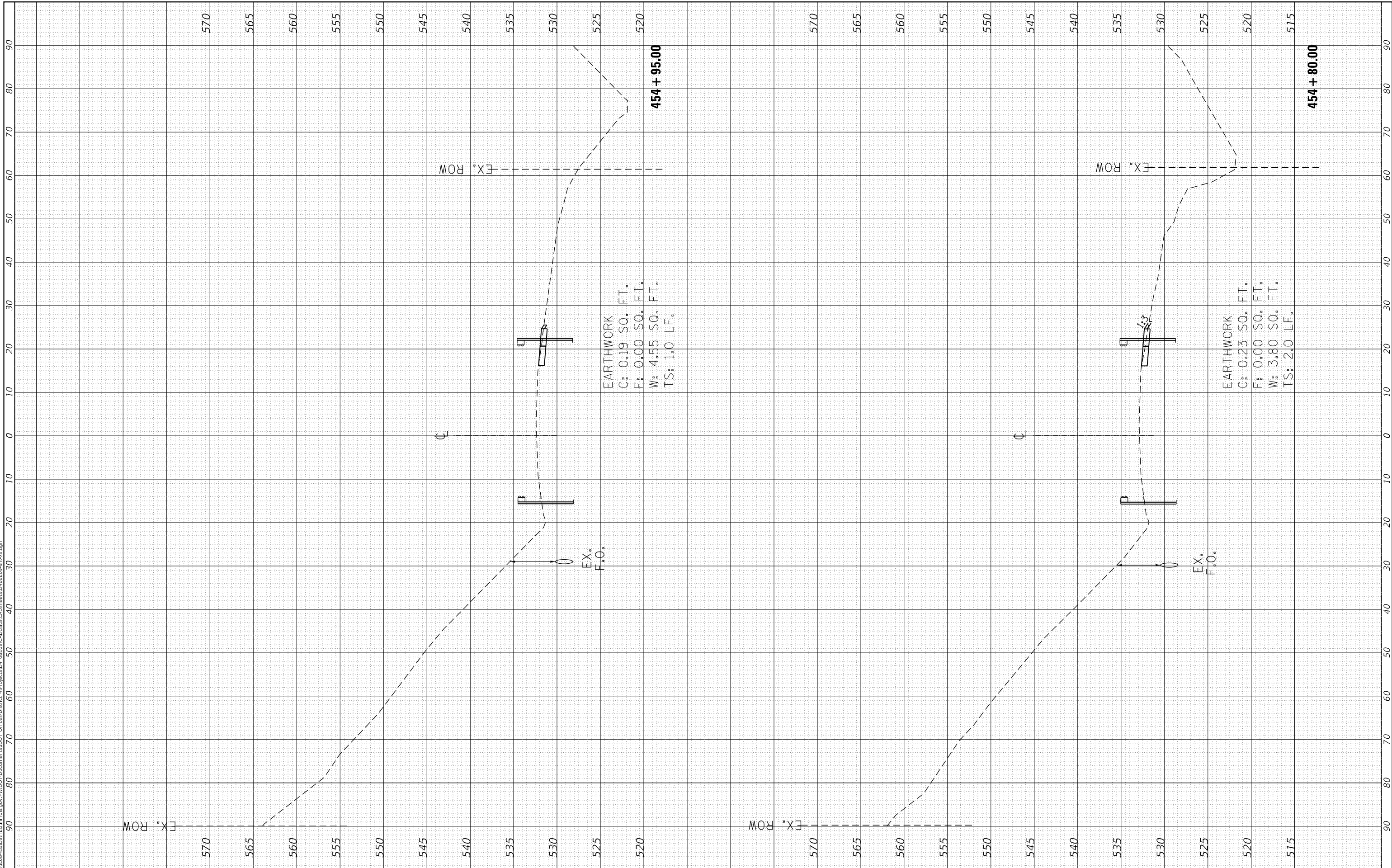
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CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

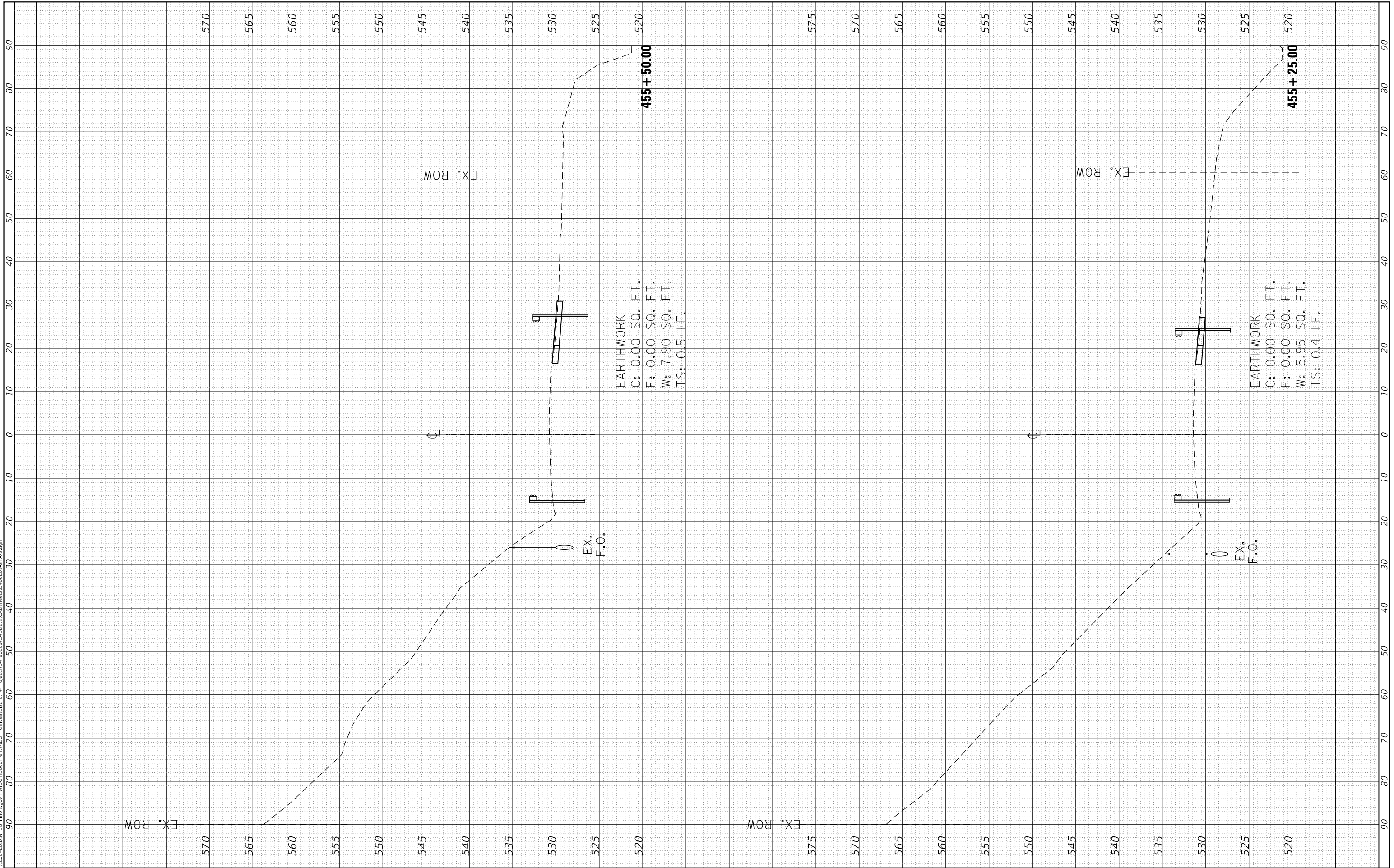
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CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				

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

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

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

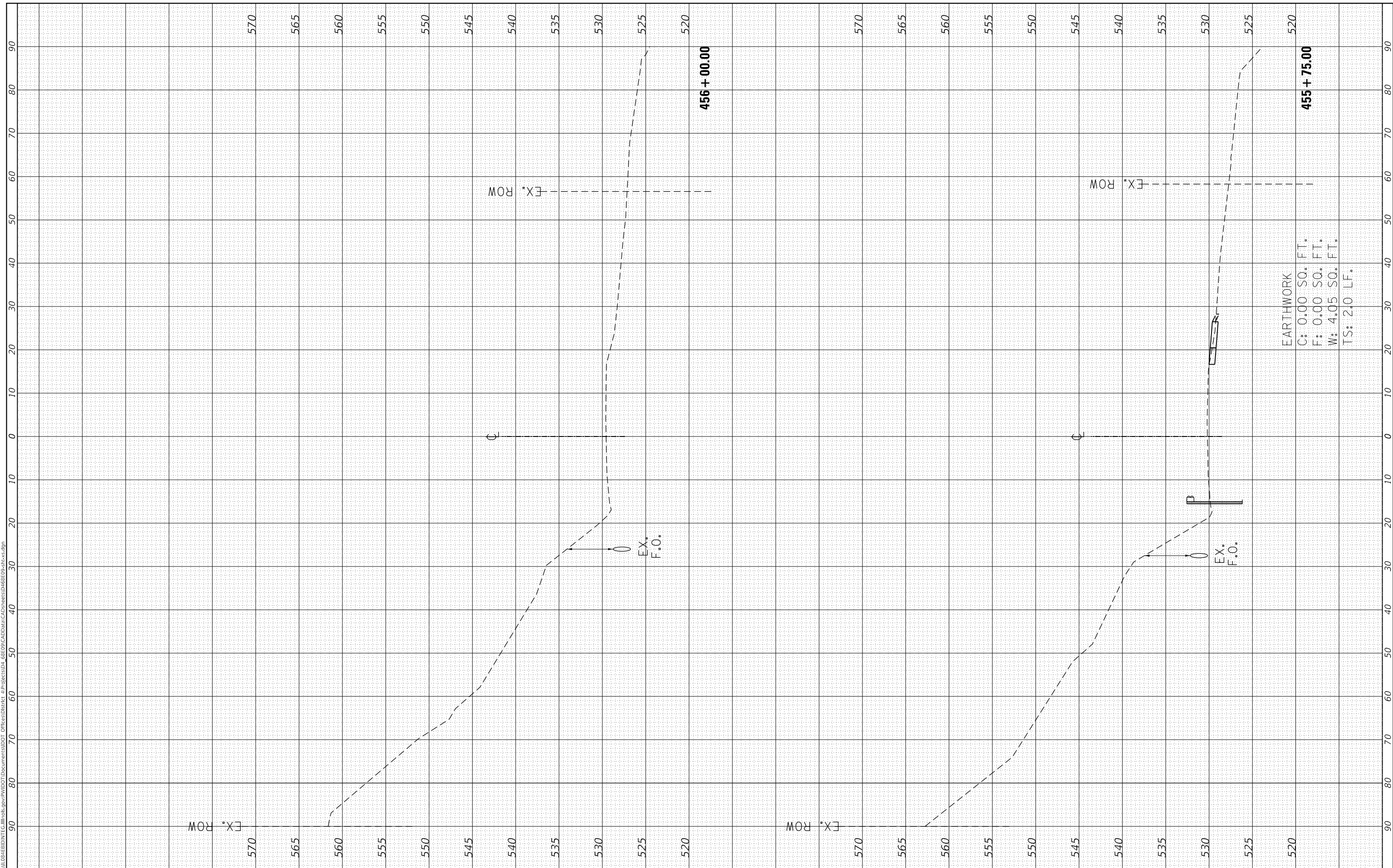
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CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				

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

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NOTE BOOK	TEMPLATE		
	AREAS CHECKED		

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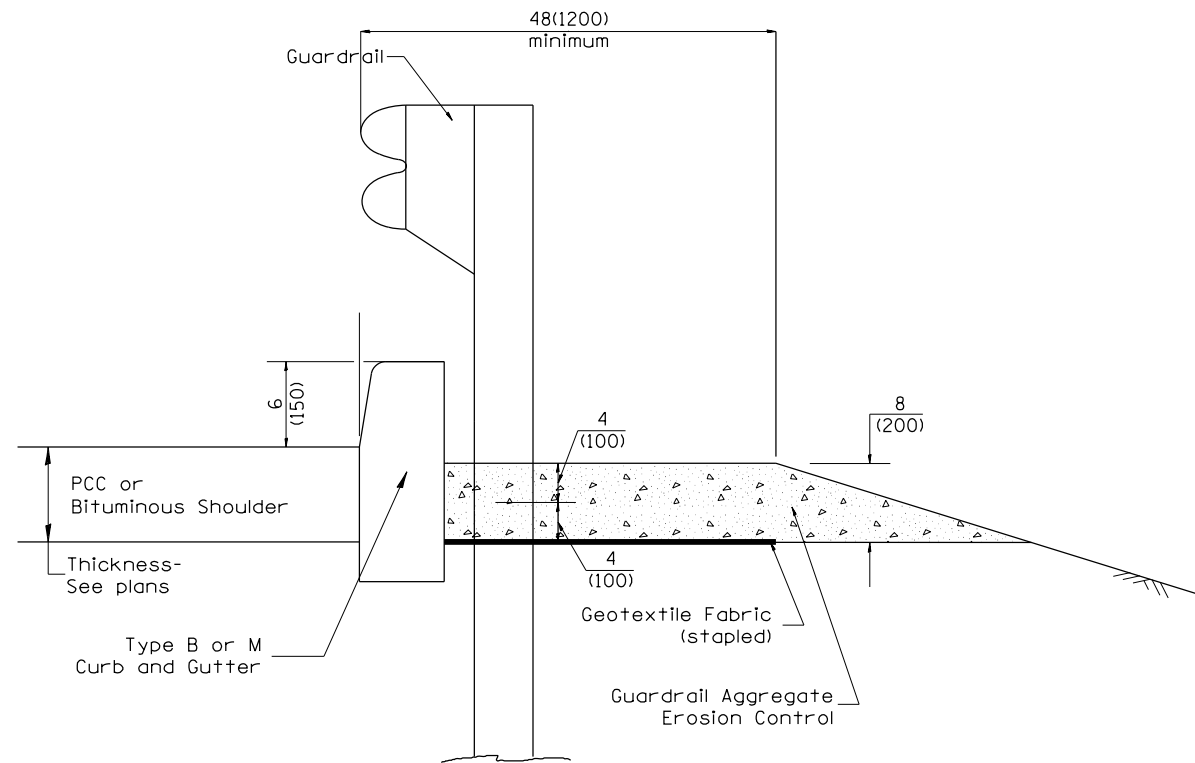
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F: 0.00 SQ. FT.  
W: 4.05 SQ. FT.  
TS: 2.10 LF.

USER NAME = bergsieker	DESIGNED -	REVISED -
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	DATE -	REVISED -

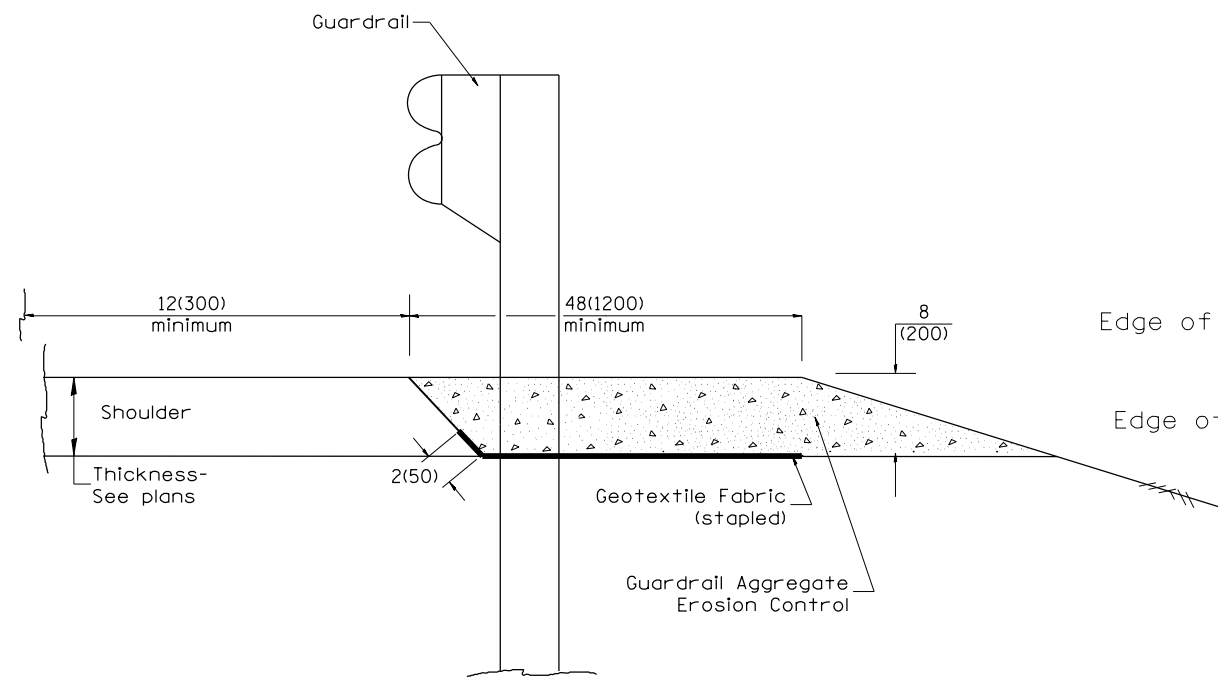
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED CROSS SECTIONS</b>	
SCALE:	SHEET OF SHEETS STA. 455+75.00 TO STA. 456+00.00

F.A.P. RTE. 622	SECTION (127)CR	COUNTY FULTON	TOTAL SHEETS 40	SHEET NO. 38
CONTRACT NO. 68E09				
ILLINOIS FED. AID PROJECT				



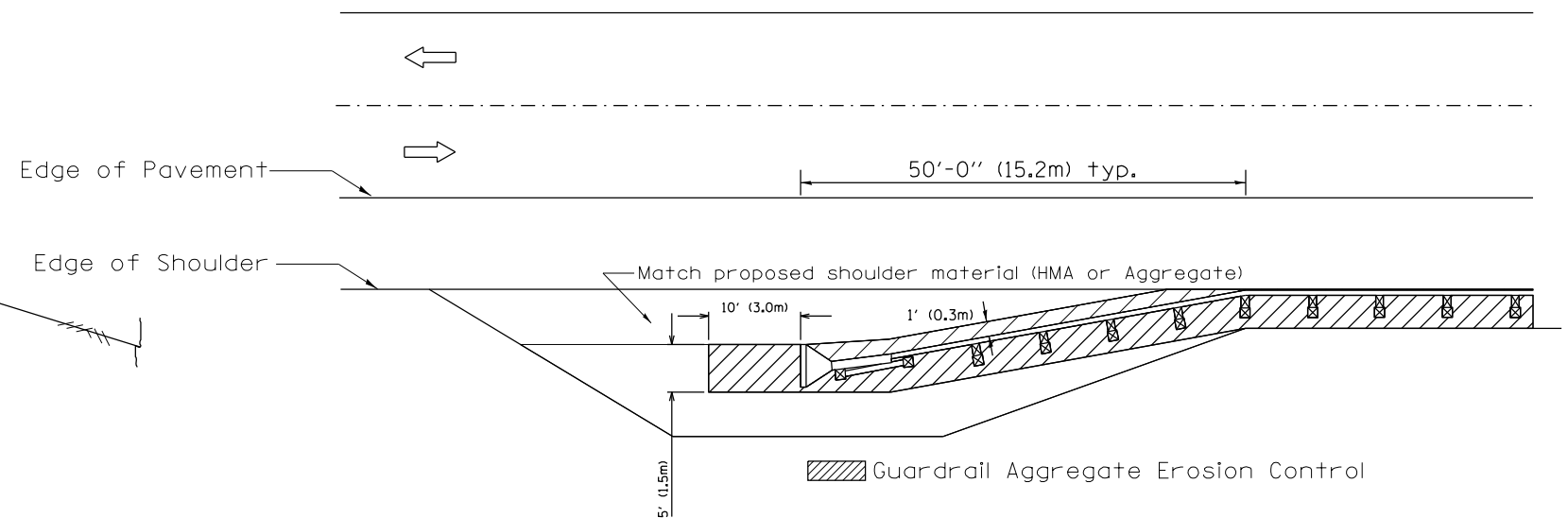
**TYPICAL SECTION WITH EROSION CONTROL CURB**



**TYPICAL SECTION WITHOUT EROSION CONTROL CURB**

**GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL**

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
  - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
  - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



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

01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.	03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.	08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.
11-03-00	CORRECTION TO NOTES	M.A.	07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.
10-16-06	REVISED TO 2007 SPEC.	M.A.	01-26-17	REVISED	R.D.

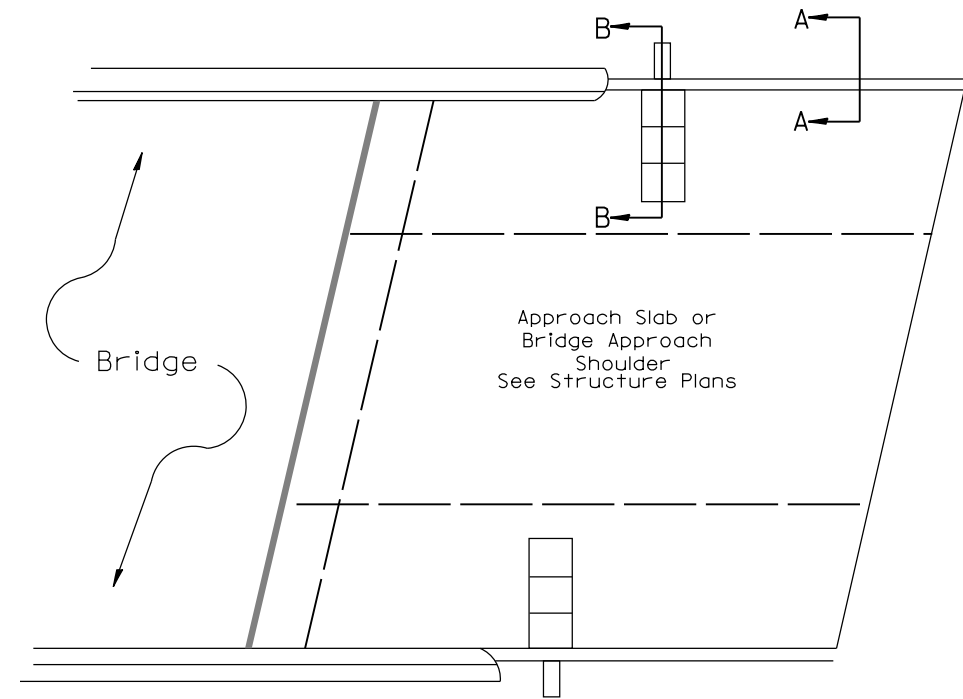
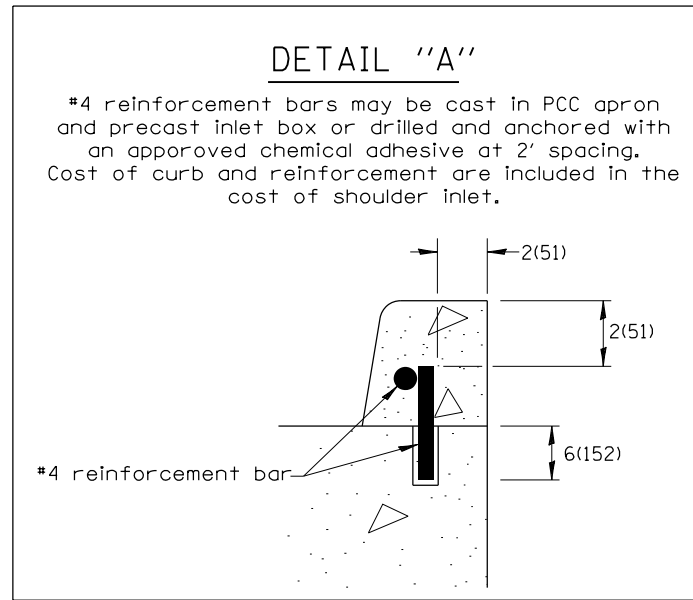
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL EROSION CONTROL TREATMENTS**

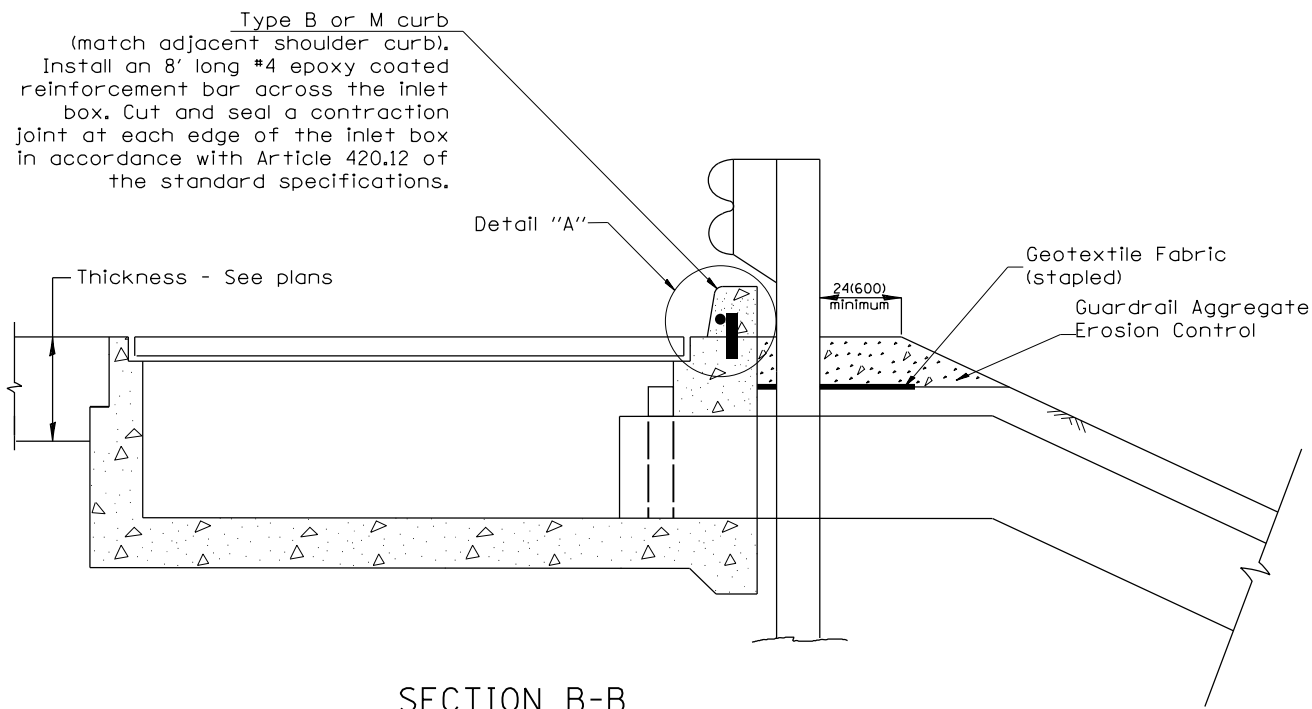
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SHT. 1 OF 2  
CADD STD. 630101-D4

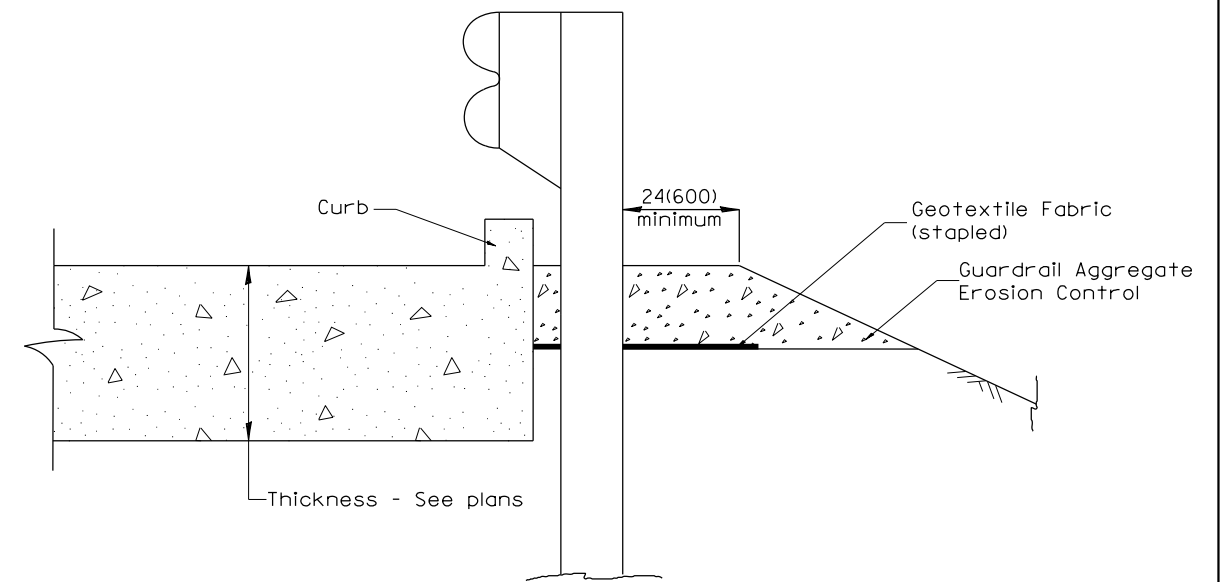
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622	(127)CR	FULTON	40	39
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E09	



**PLAN VIEW**  
**APPROACH SLAB OR SHOULDER PLACEMENT**



**SECTION B-B**  
**TYPICAL SECTION AT INLETS**  
**TYPE E, F & G (HIGHWAY STANDARD 610001)**



**SECTION A-A**  
**TYPICAL SECTION WITH BRIDGE APPROACH CURB**

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

<b>STATE OF ILLINOIS</b>				<b>GUARDRAIL EROSION CONTROL TREATMENTS</b>				TOTAL SHEETS	SHEET NO.
<b>DEPARTMENT OF TRANSPORTATION</b>				NOT TO SCALE				622	40
SHT. 2 OF 2				CADD STD. 630101-D4				CONTRACT NO. 68E09	
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT					