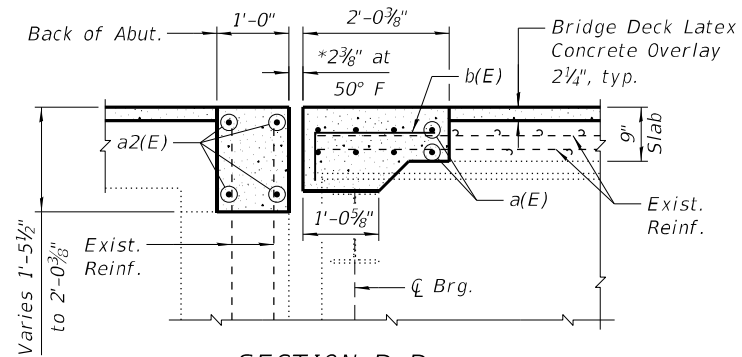
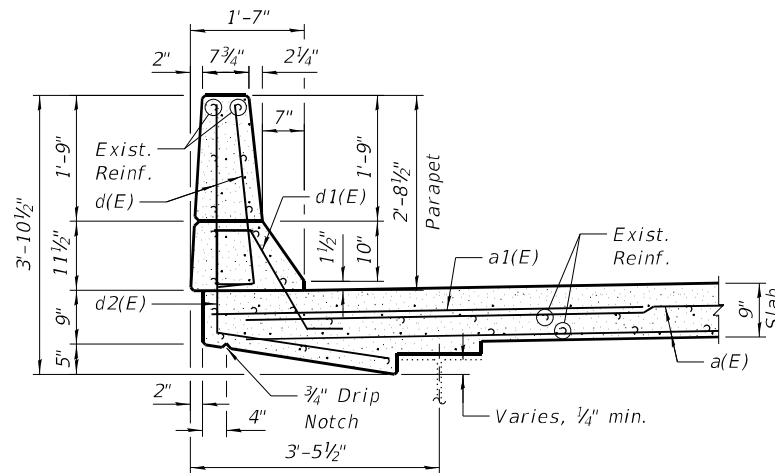
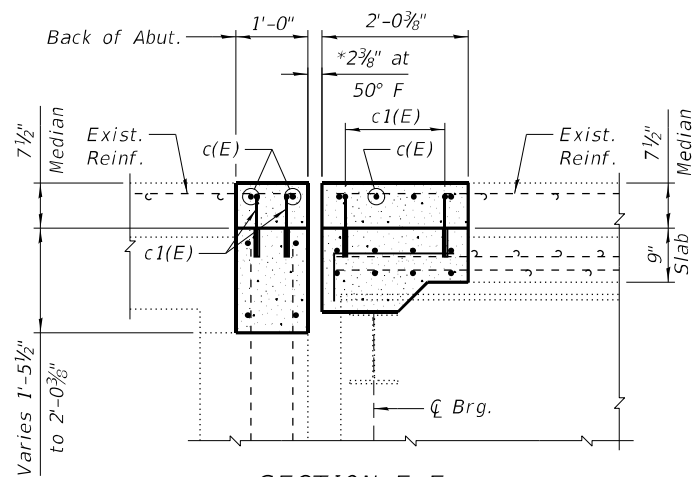




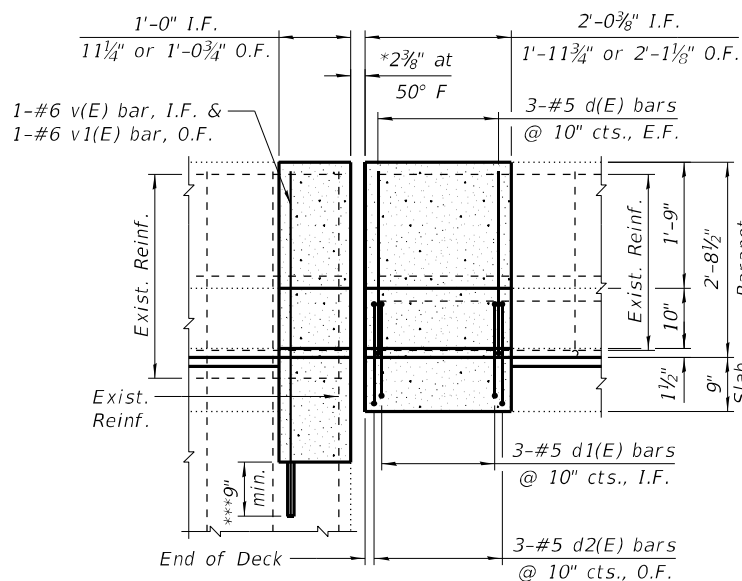
SECTION D-D



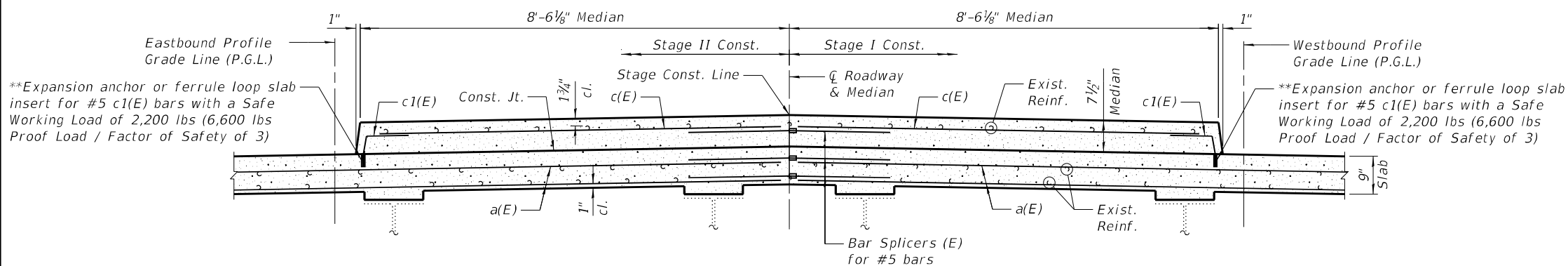
SECTION THRU PARAPET



SECTION E-E



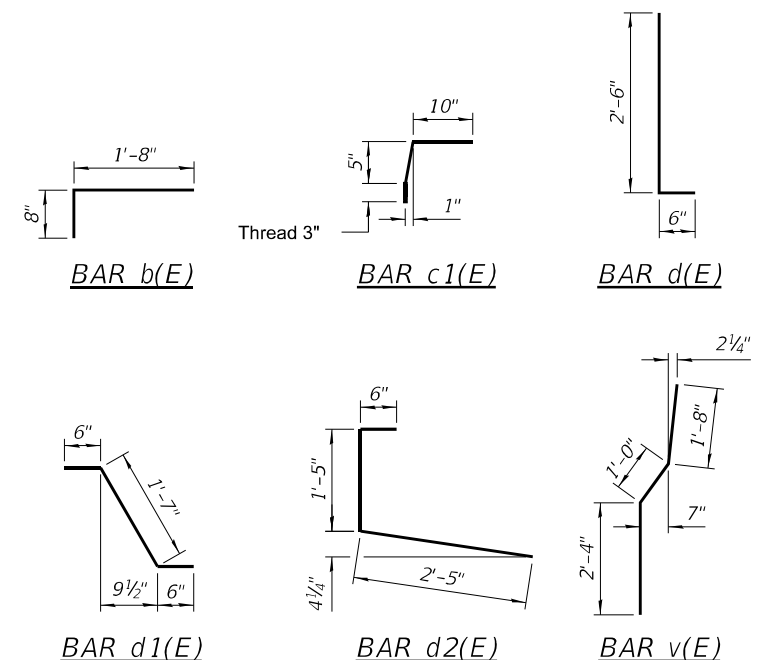
ELEVATION - INSIDE FACE OF PARAPET



SECTION F-F

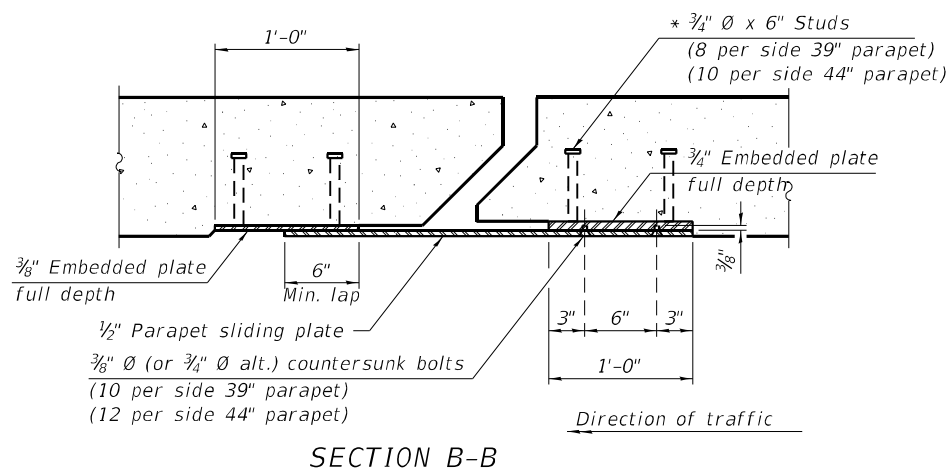
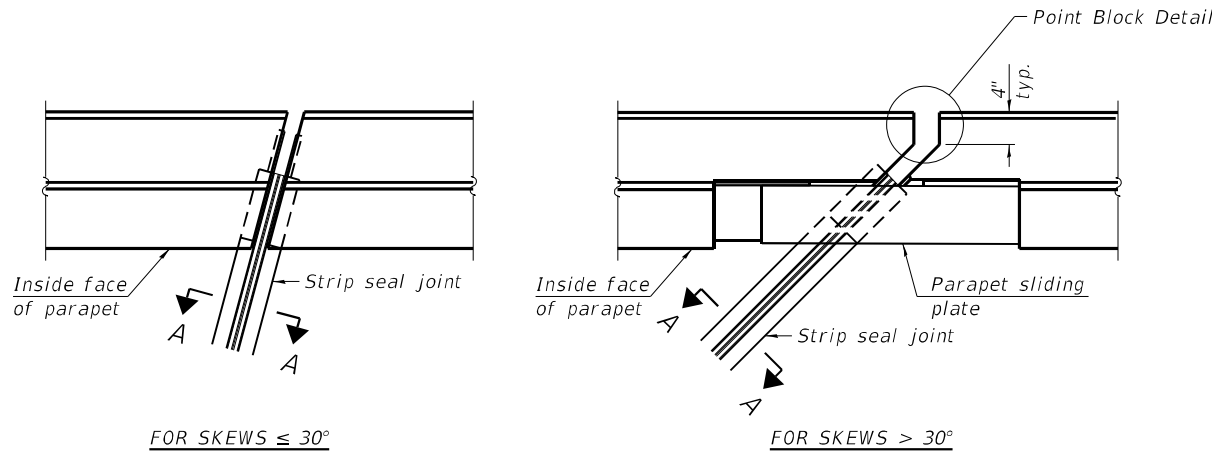
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	32	#5	33'-8"	
a1(E)	16	#6	6'-6"	
a2(E)	16	#6	33'-8"	
b(E)	132	#5	2'-4"	
c(E)	24	#5	8'-2"	
c1(E)	24	#5	1'-6"	
d(E)	24	#5	3'-0"	
d1(E)	12	#5	2'-7"	
d2(E)	12	#5	4'-4"	
v(E)	4	#6	5'-0"	
v1(E)	4	#6	4'-9"	
Item		Unit	Quantity	
Concrete Superstructure		Cu. Yd.	23.0	
Reinforcement Bars, Epoxy Coated		Pound	2,870	
Bar Splicers		Each	36	

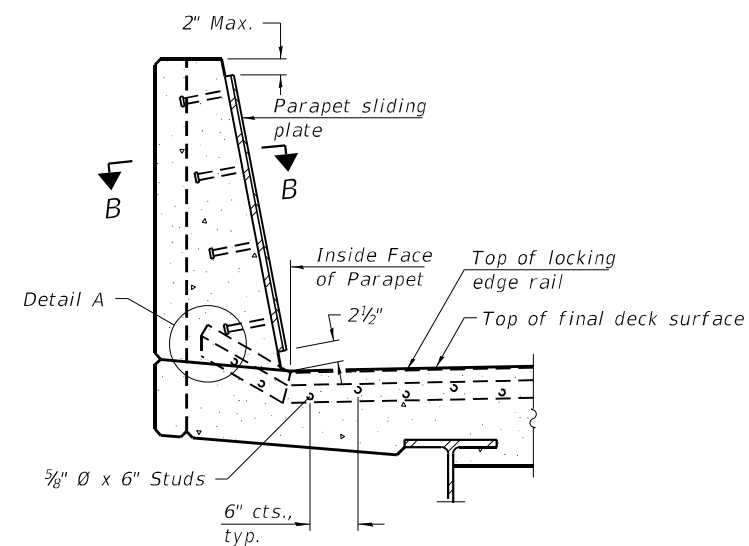


NOTES:

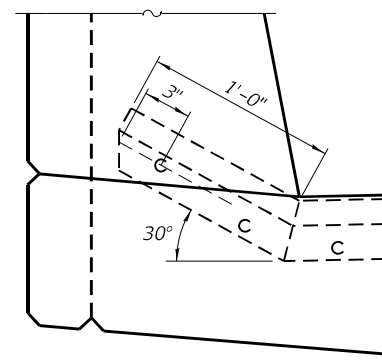
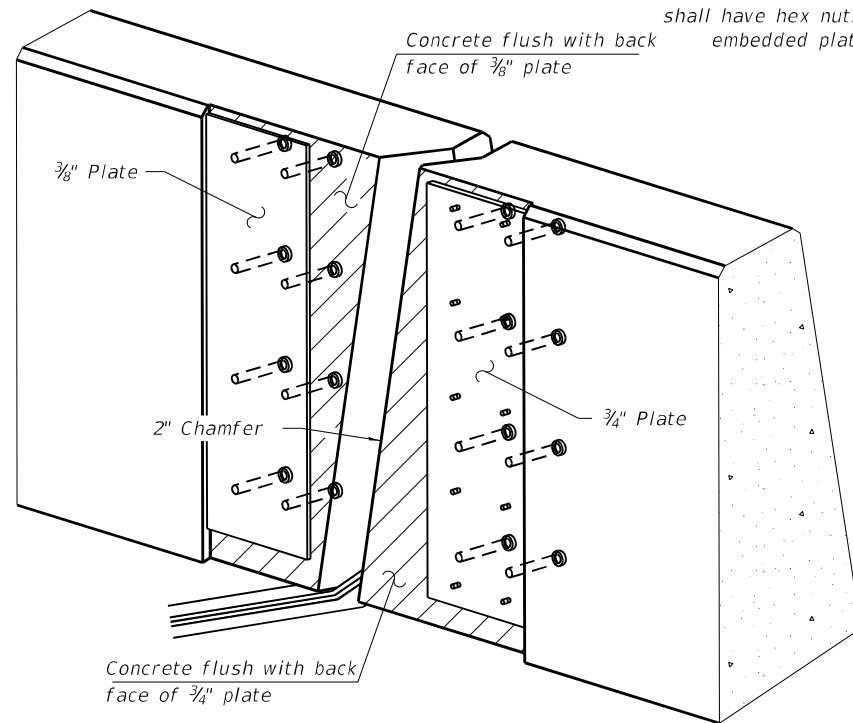
- 1.) *Dimension showing concrete opening. For joint opening, see Sheets 11 & 12 of 21.
- 2.) **Anchor or inserts shall be galvanized or epoxy coated. The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.
- 3.) ***Epoxy grout v(E) and v1(E) bars in 9" deep (min.) drilled holes, 1" ϕ , according to Section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.
- 4.) See Sheet 9 of 21 for locations of Sections D-D thru F-F.
- 5.) E.F. denotes Each Face, I.F. denotes Inside Face, & O.F. denotes Outside Face.



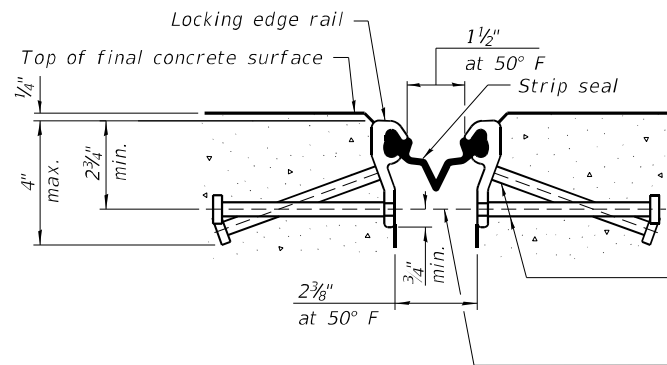
($\frac{3}{4}$ " $\varnothing$ countersunk bolts extending into concrete shall have hex nuts tack welded to the back of the embedded plates with end caps provided.)



SECTION AT PARAPET
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A
(Kick-up at parapet locations shown. See sheet of for kick-up at curb locations.)

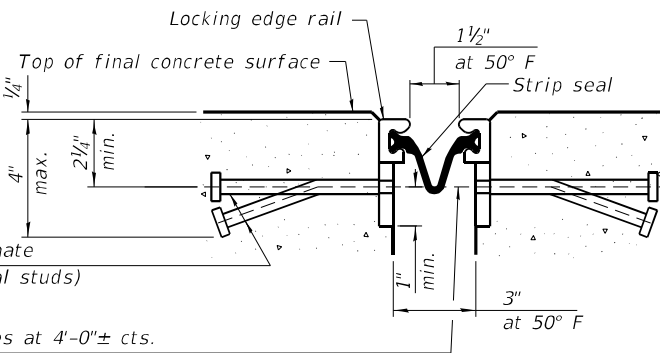


SHOWING ROLLED RAIL JOINT

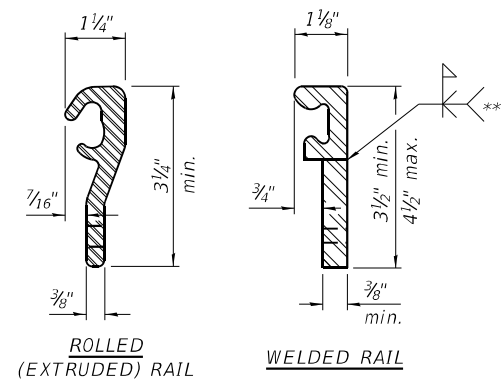
$\frac{3}{8}$ " $\varnothing$ threaded rods in $\frac{7}{16}$ " $\varnothing$ holes at 4'-0" $\pm$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

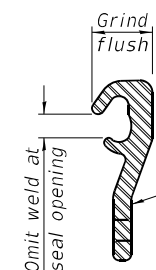


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.

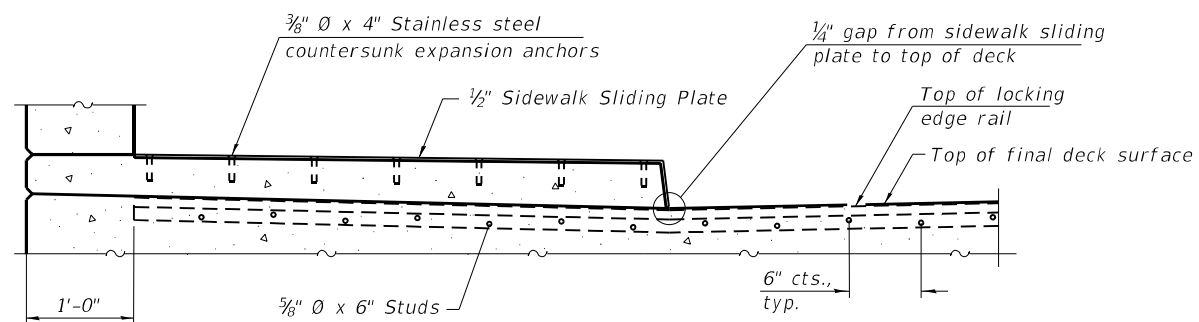


LOCKING EDGE RAIL SPLICE

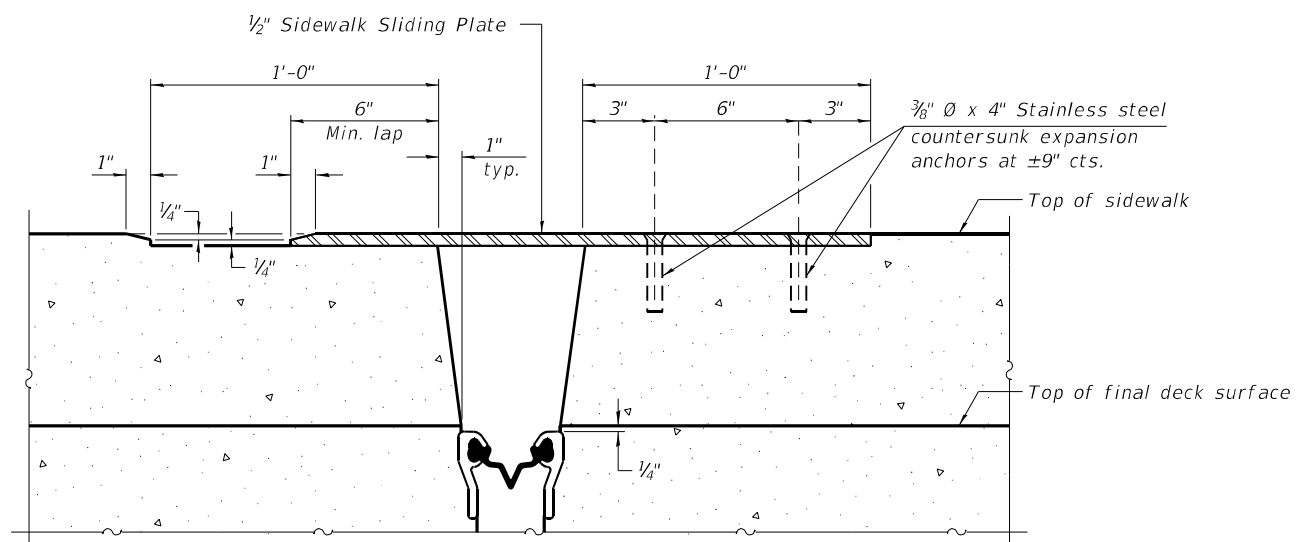
The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

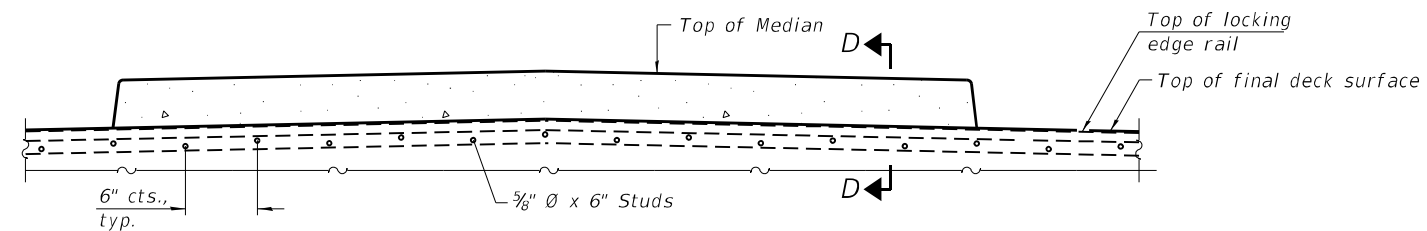
Item	Unit	Total
Preformed Joint Strip Seal	Foot	136.0



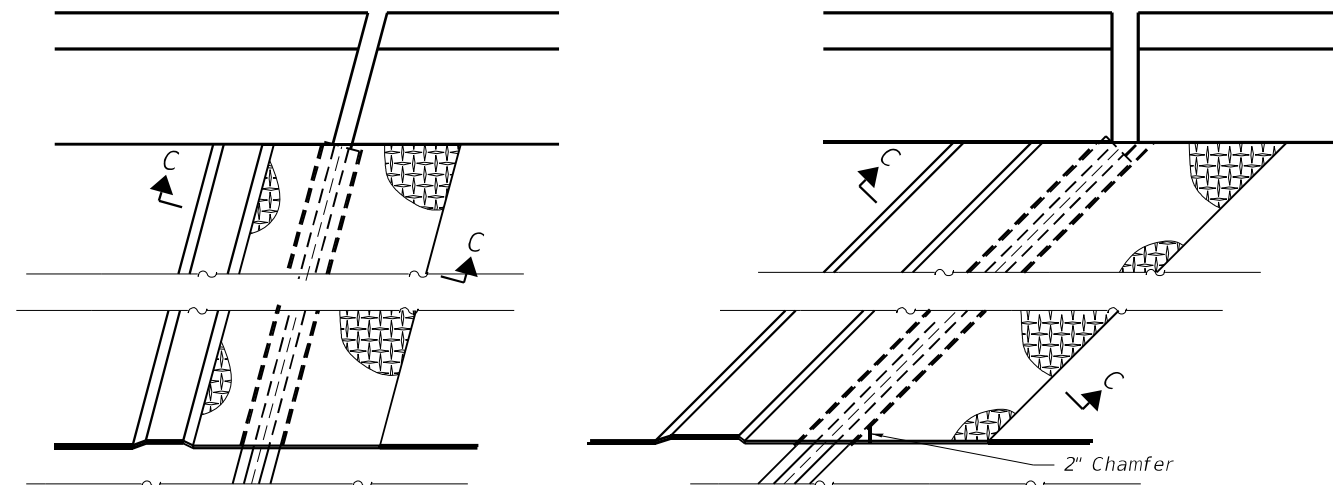
SECTION AT RAISED SIDEWALK



SECTION C-C



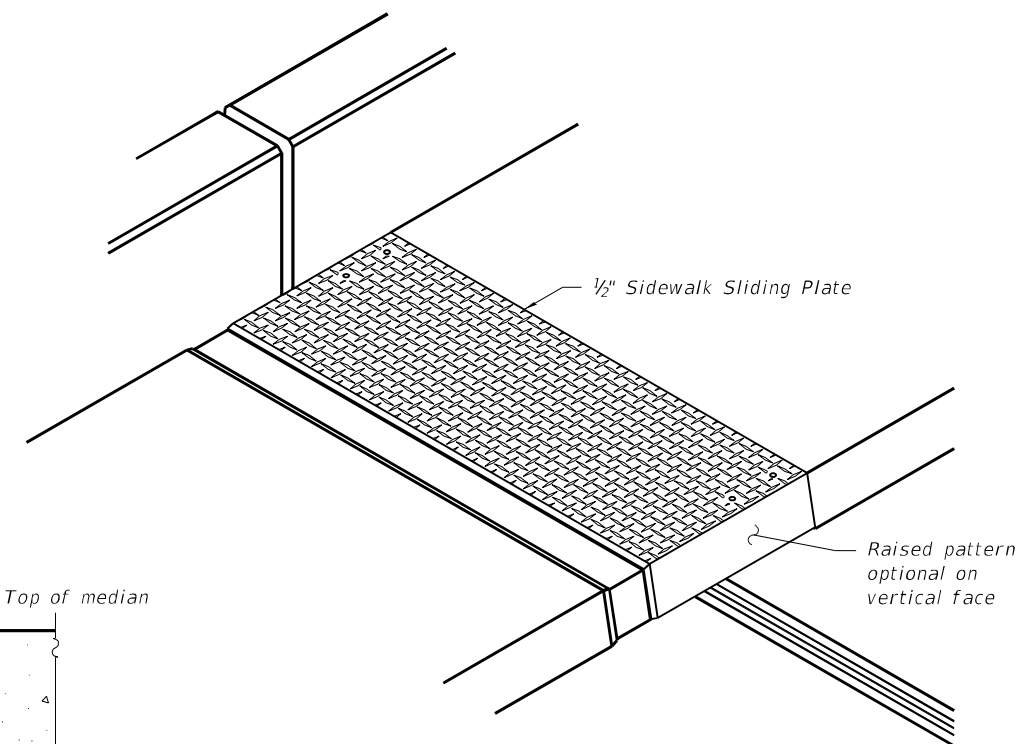
SECTION AT MEDIAN
For skews > 30°, chamfer acute corners 2" similar to sidewalk.



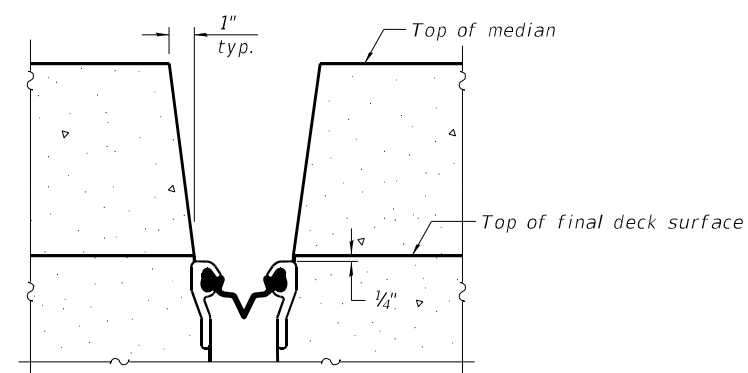
(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

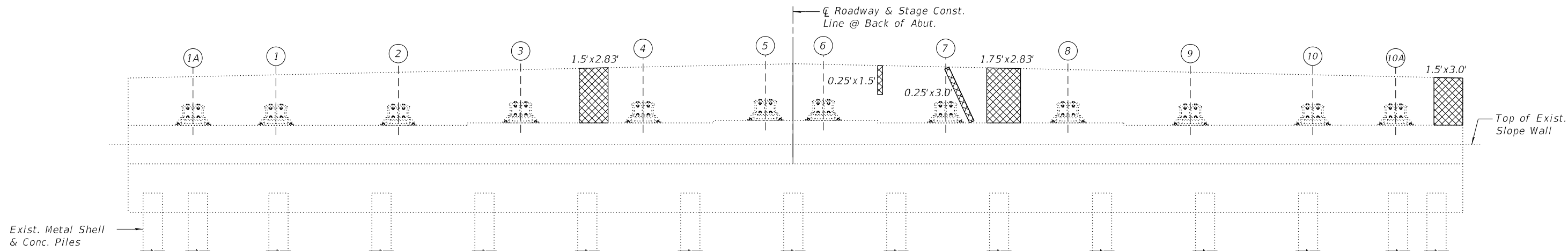
PLAN AT RAISED SIDEWALK



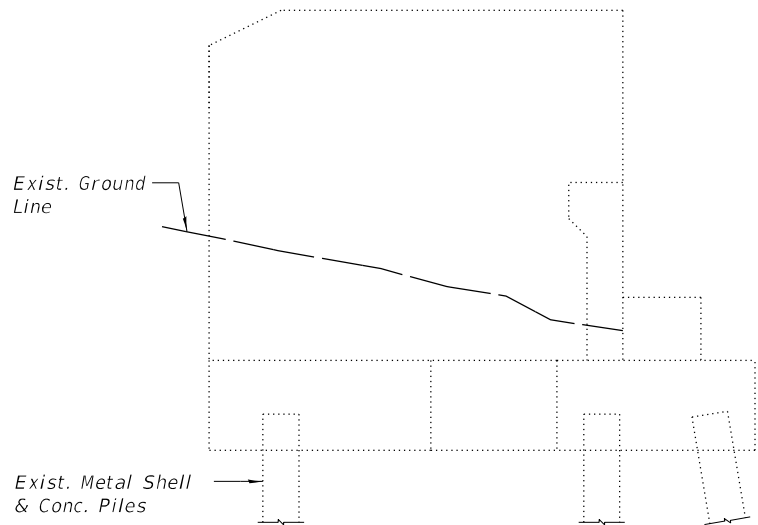
TRIMETRIC VIEW



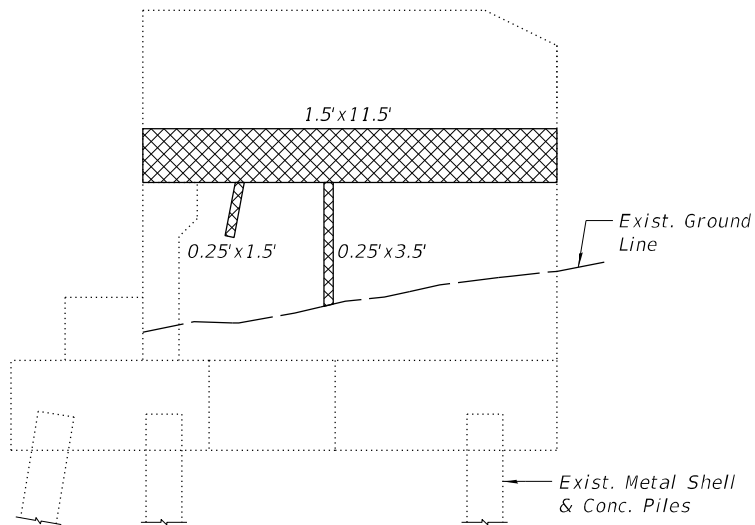
SECTION D-D
(at Rt. L's)



WEST ABUTMENT ELEVATION
(Looking West)



SOUTHWEST WINGWALL ELEVATION
(Looking North)



NORTHWEST WINGWALL ELEVATION
(Looking South)

LEGEND

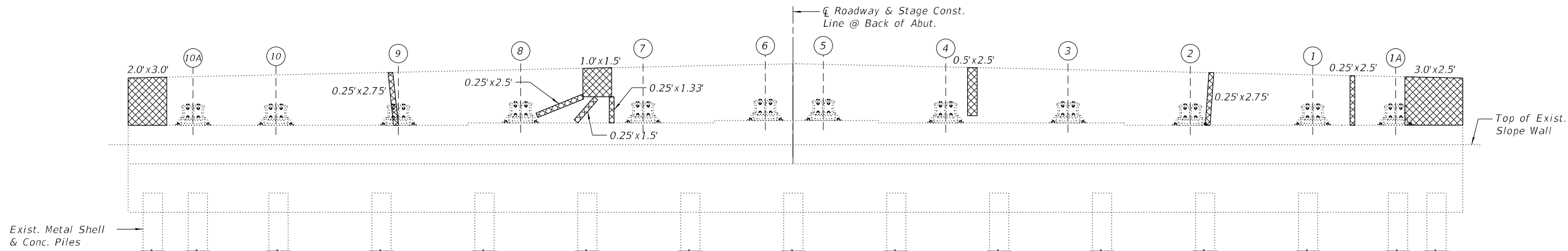
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

BILL OF MATERIAL

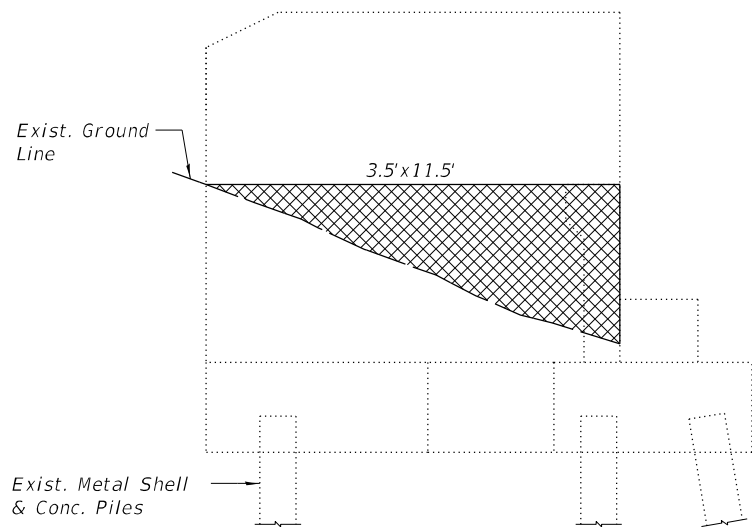
Item	Unit	Total
Concrete Sealer	Sq. Ft.	591
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	35

NOTES:

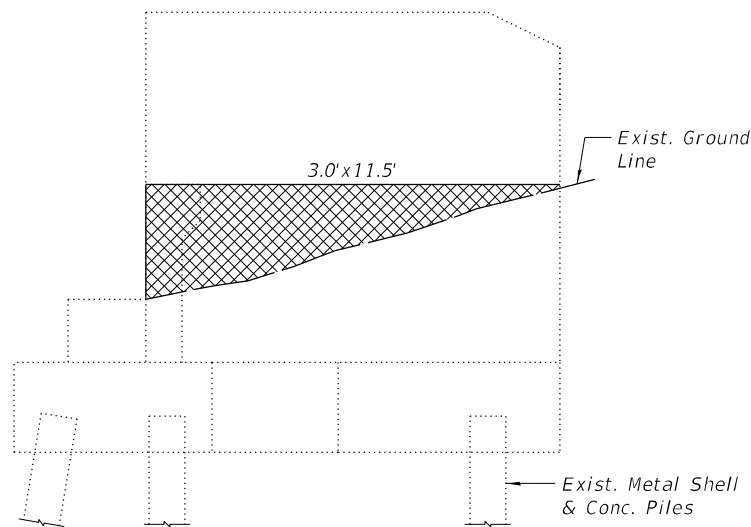
- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of the abutments and wingwalls.



EAST ABUTMENT ELEVATION
(Looking East)



NORTHEAST WINGWALL ELEVATION
(Looking South)



SOUTHEAST WINGWALL ELEVATION
(Looking North)

LEGEND

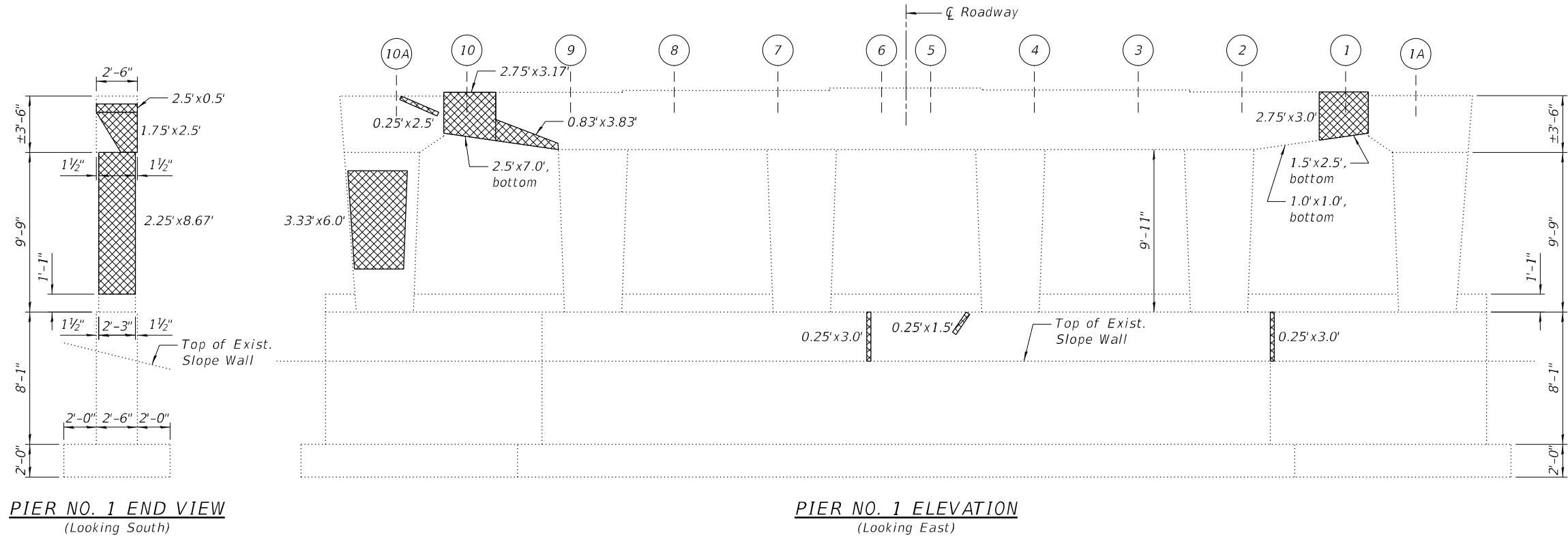
 Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)

BILL OF MATERIAL

Item	Unit	Total
Concrete Sealer	Sq. Ft.	566
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	57

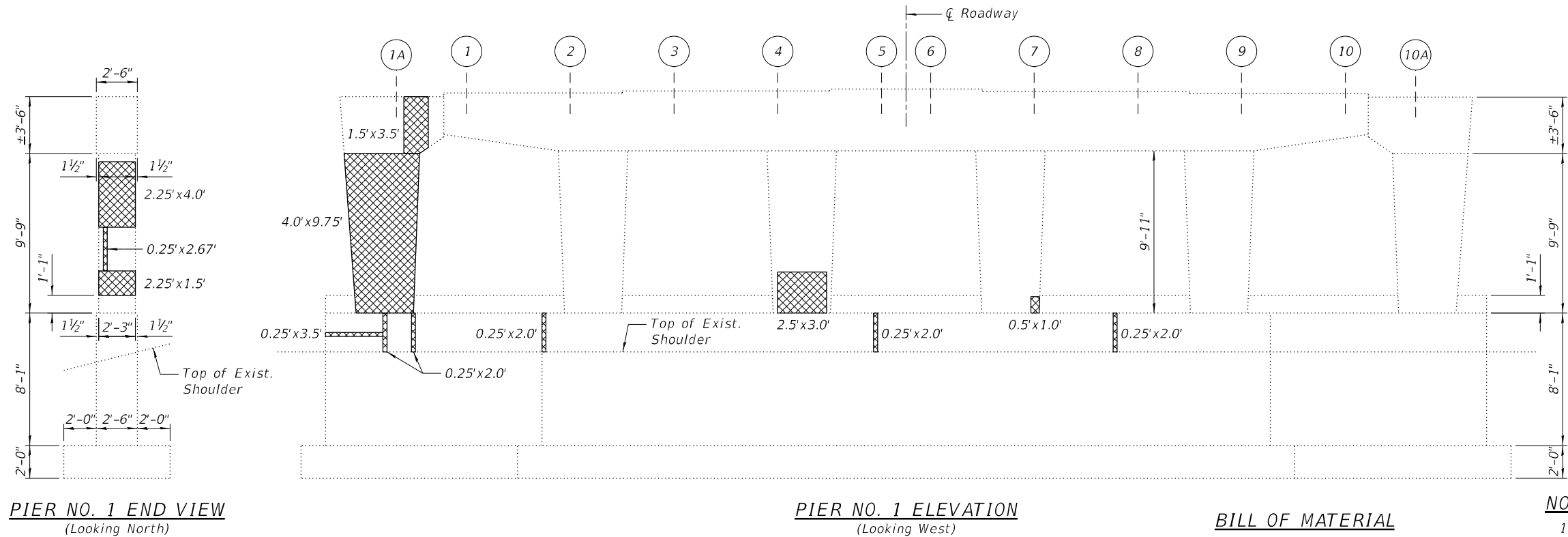
NOTES:

- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of the abutments and wingwalls.



PIER NO. 1 END VIEW
(Looking South)

PIER NO. 1 ELEVATION
(Looking East)



PIER NO. 1 END VIEW
(Looking North)

PIER NO. 1 ELEVATION
(Looking West)

LEGEND

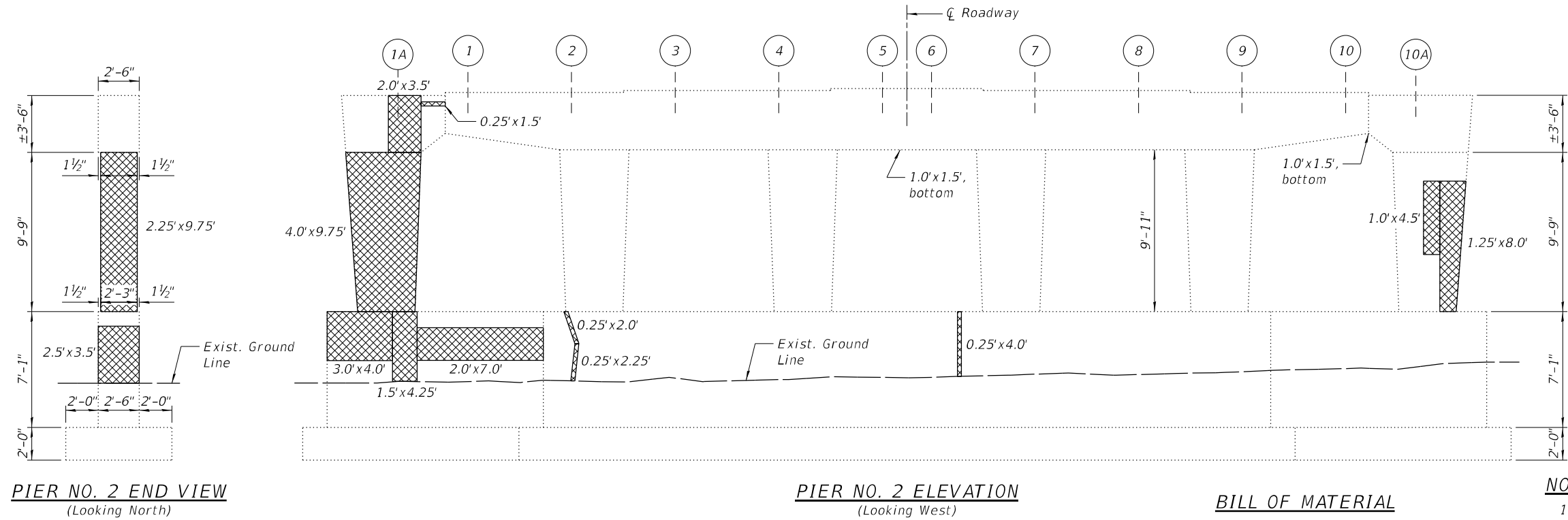
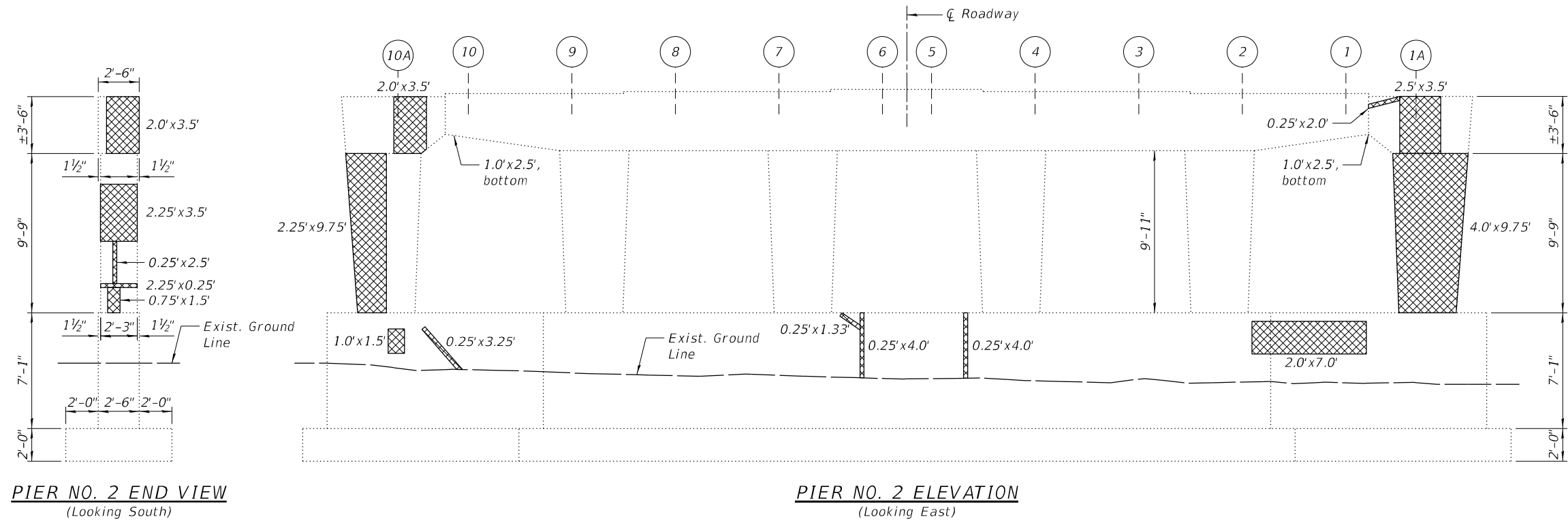
Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)

BILL OF MATERIAL

Item	Unit	Total
Concrete Sealer	Sq. Ft.	1,398
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	160

NOTES:

- The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the bearings after installation of proposed crash wall extensions.

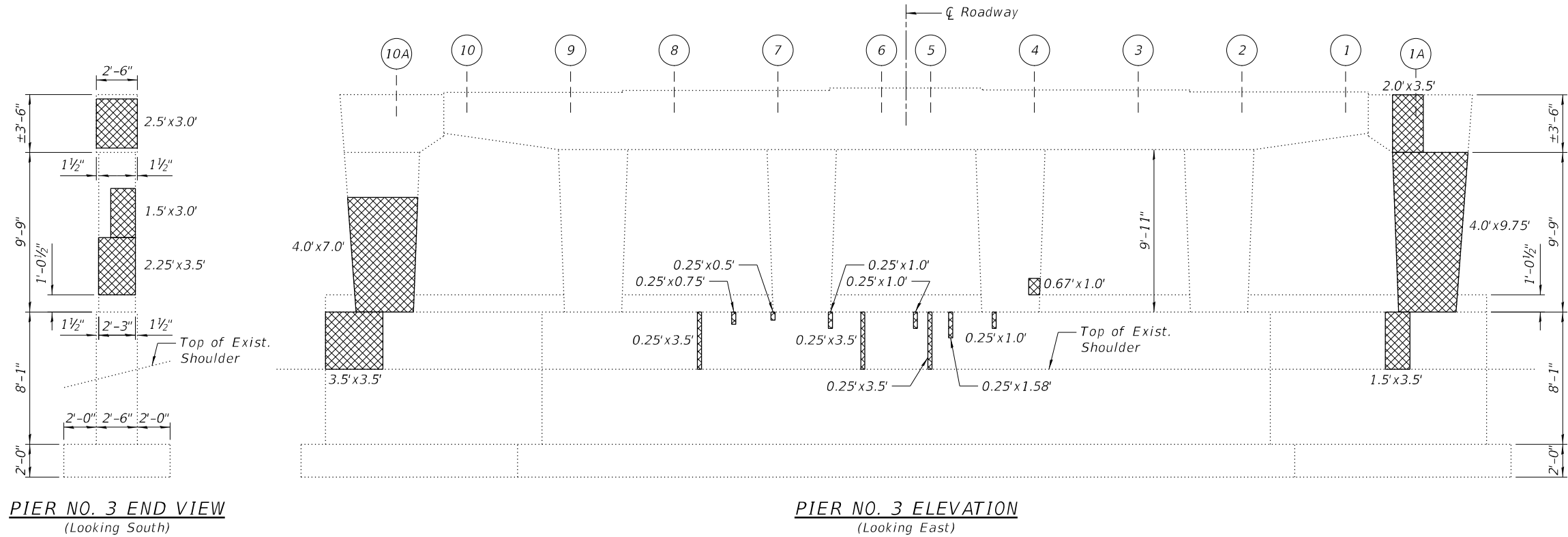


LEGEND

Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)

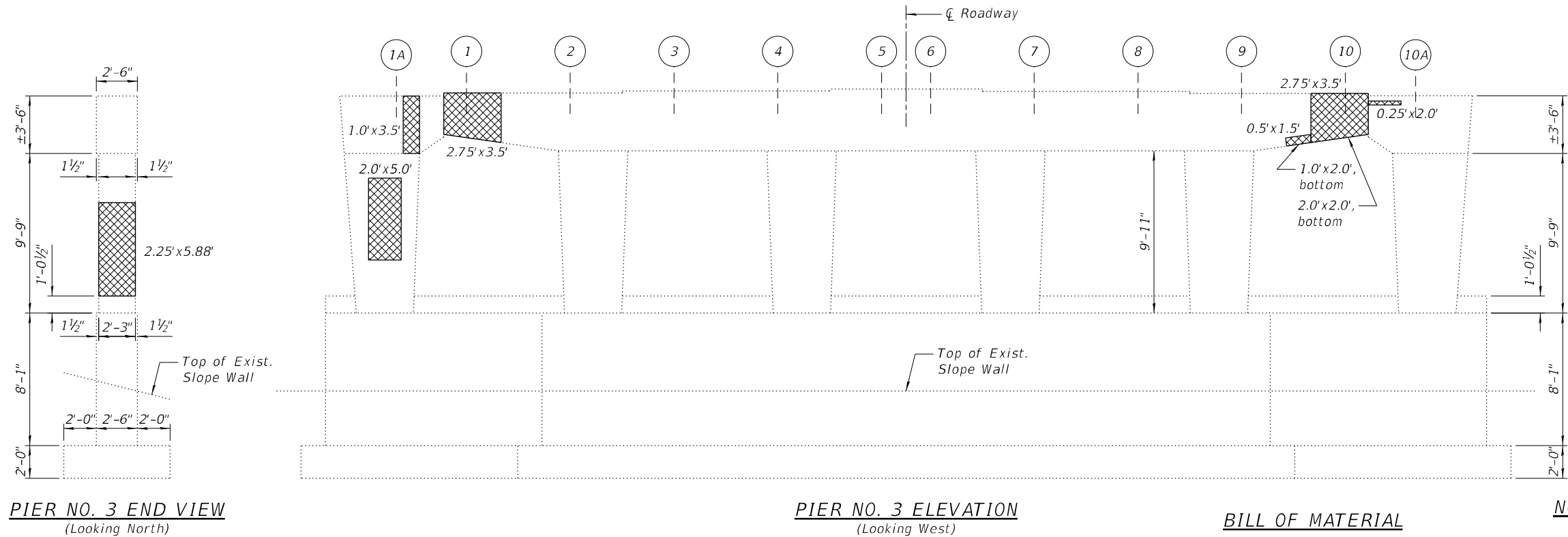
- NOTES:**
- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
 - 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the bearings after installation of proposed crash wall extensions.

BILL OF MATERIAL		
Item	Unit	Total
Concrete Sealer	Sq. Ft.	1,581
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	248



PIER NO. 3 END VIEW
(Looking South)

PIER NO. 3 ELEVATION
(Looking East)



PIER NO. 3 END VIEW
(Looking North)

PIER NO. 3 ELEVATION
(Looking West)

BILL OF MATERIAL

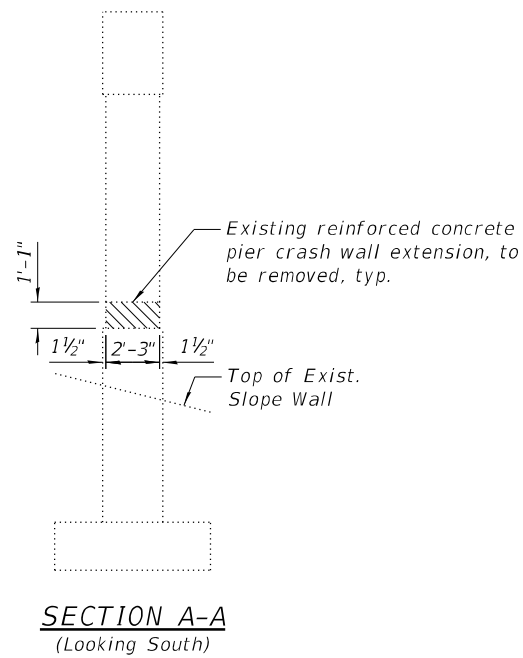
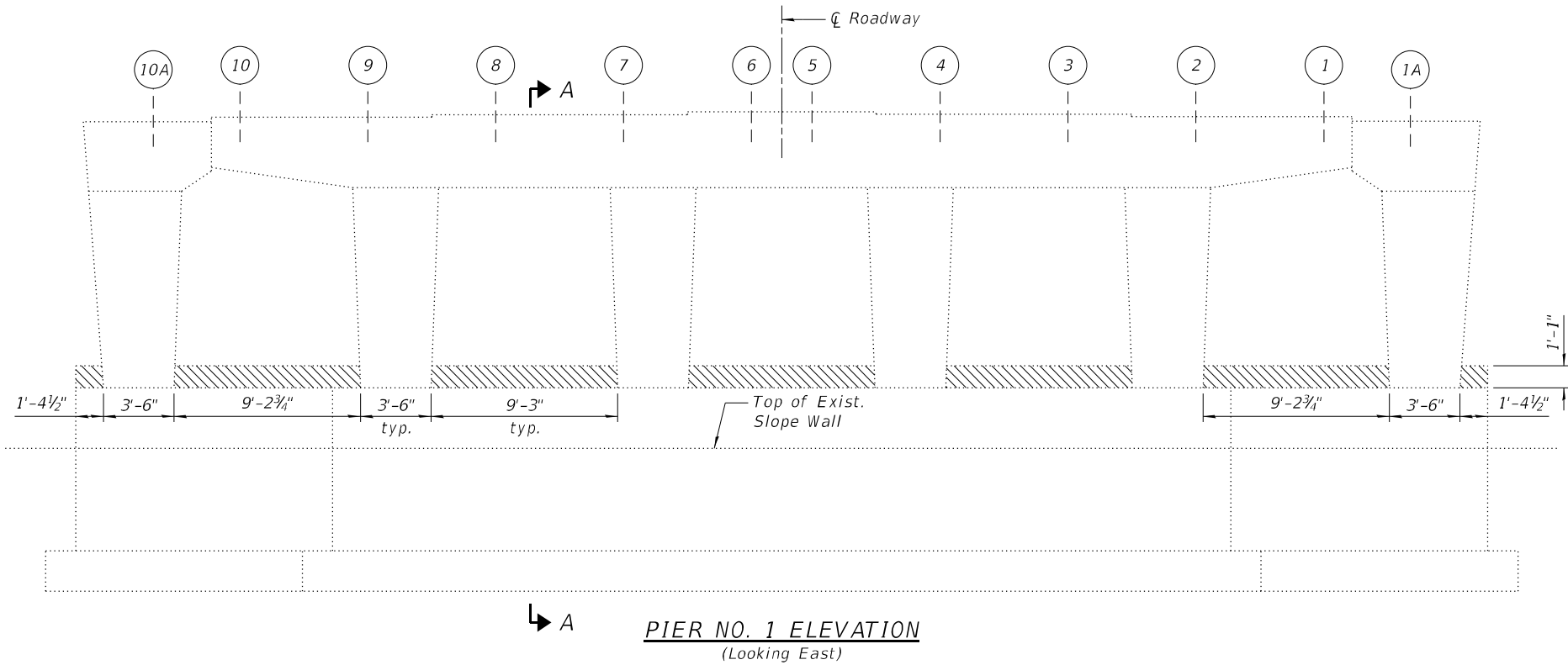
Item	Unit	Total
Concrete Sealer	Sq. Ft.	1,612
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	170

NOTES:

- The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the bearings after installation of proposed crash wall extensions.

LEGEND

Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)



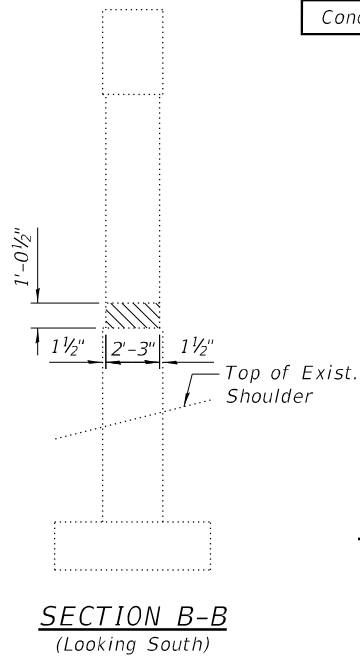
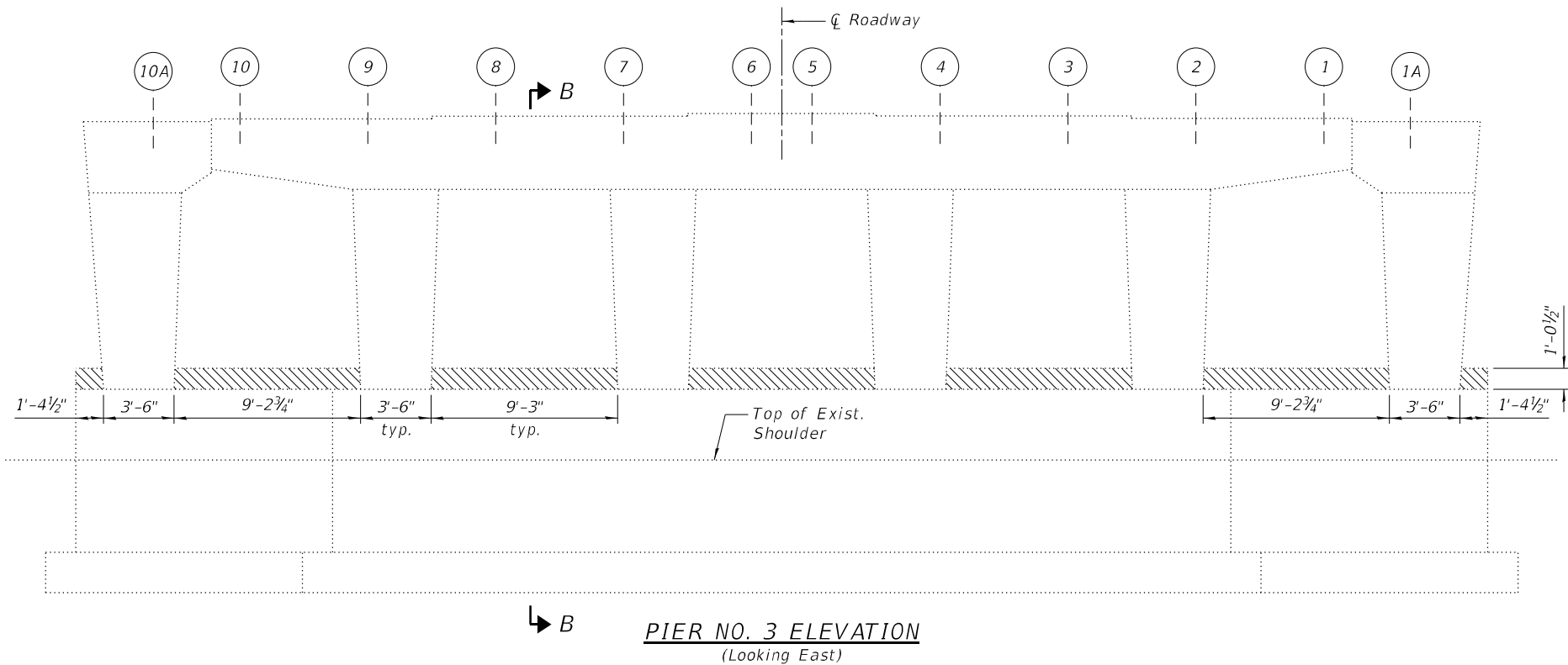
LEGEND



Concrete Removal

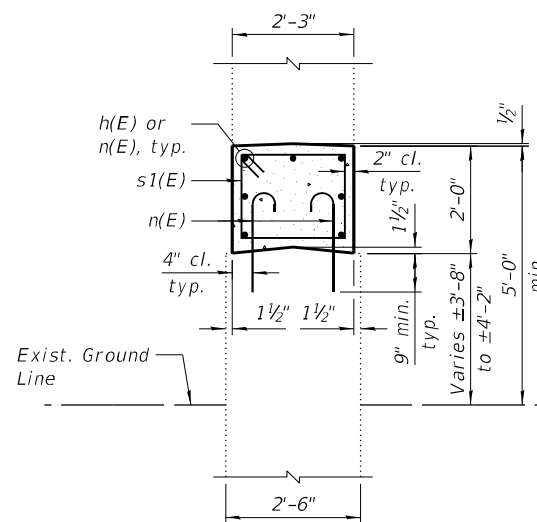
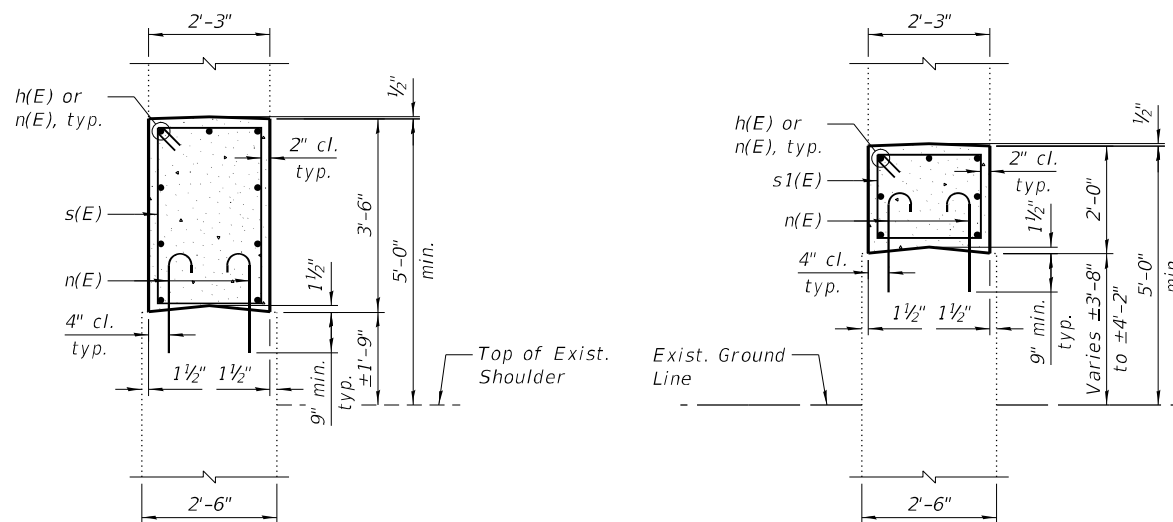
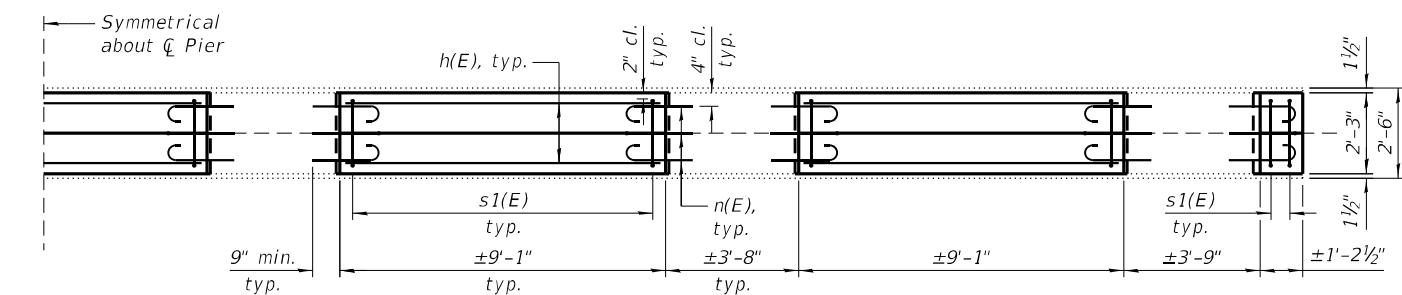
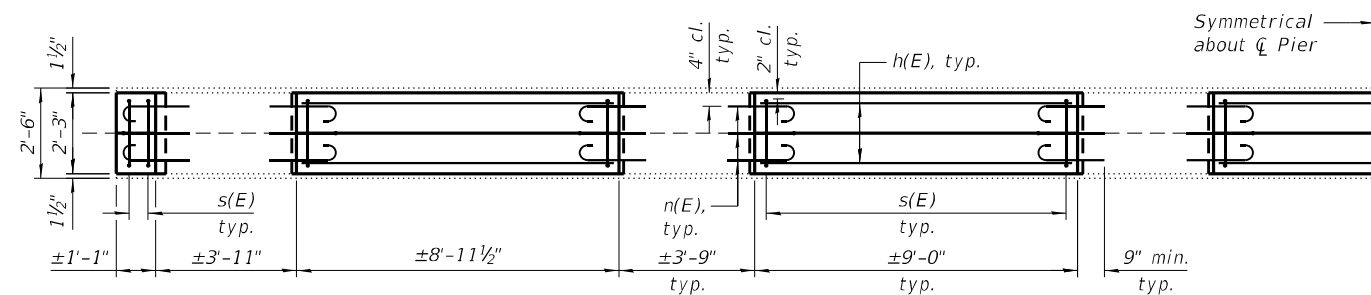
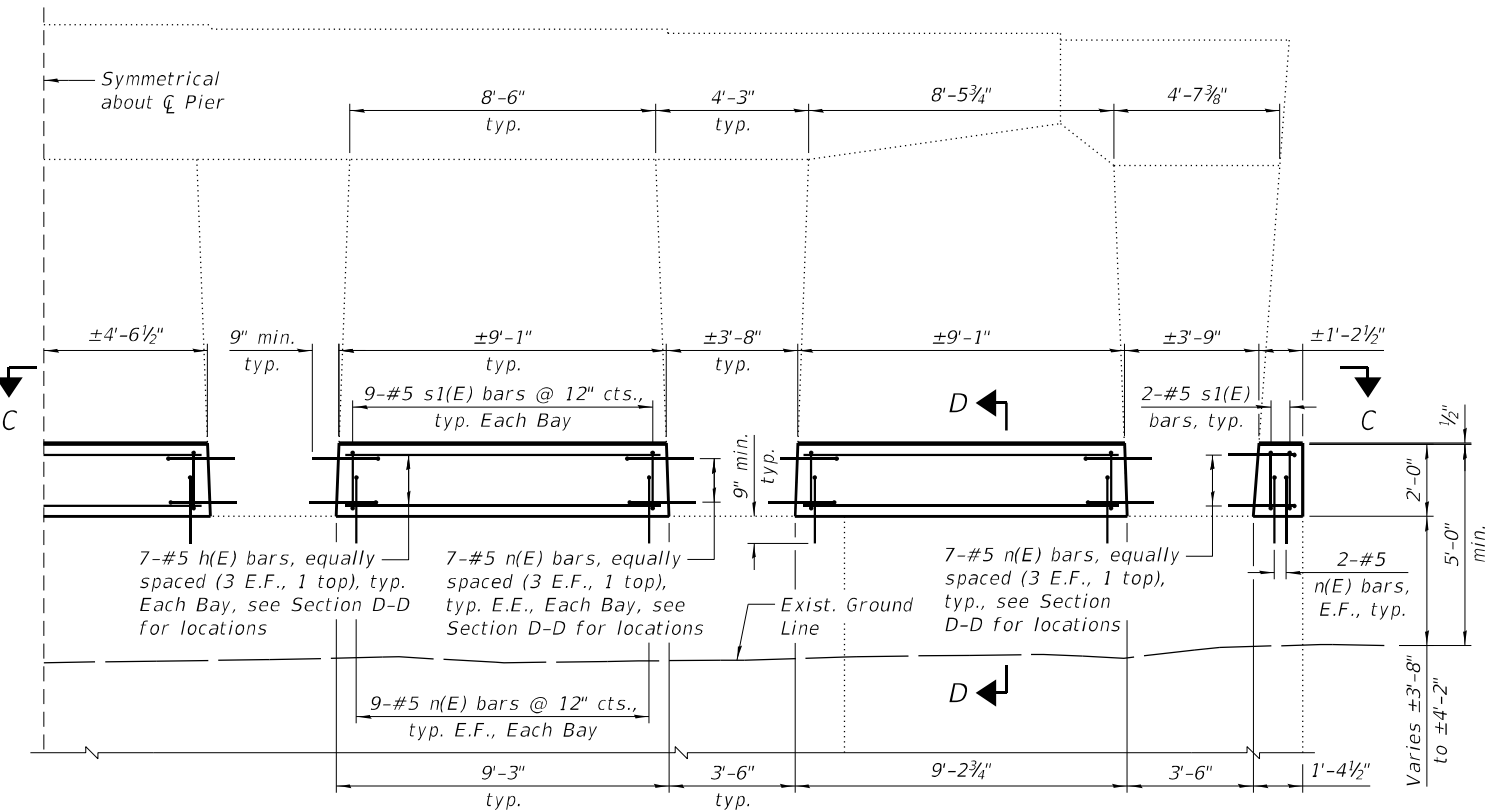
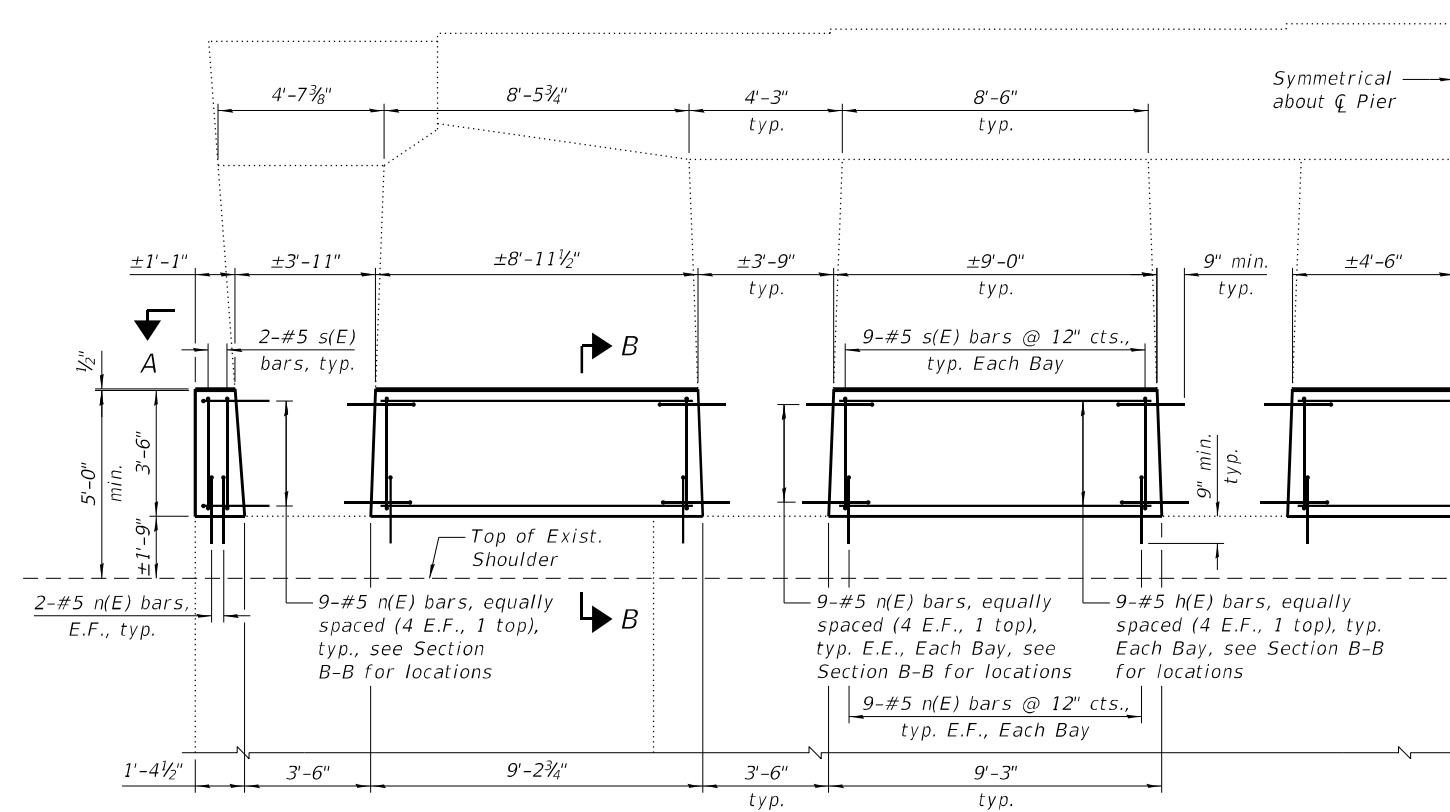
BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	8.7



NOTE:

All work associated with temporary detachment and/or removal of steel plate beam guardrail will not be paid for separately, but shall be included in the cost of the work for which it is required.

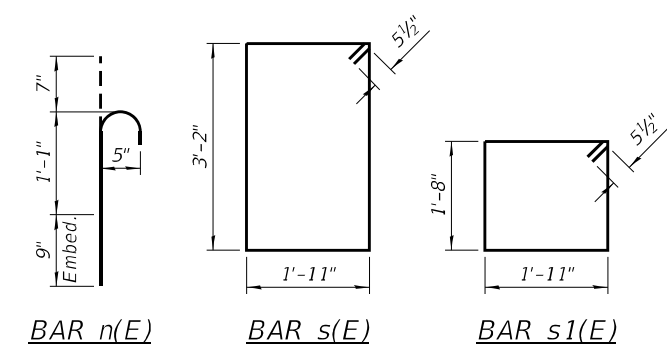


PIER NO. 1 & NO. 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	90	#5	8'-7"	—
n(E)	412	#5	2'-5"	C
s(E)	98	#5	11'-1"	□
Item			Unit	Quantity
Concrete Structures			Cu. Yd.	28.4
Reinforcement Bars, Epoxy Coated			Pound	2,980
Concrete Sealer			Sq. Ft.	916

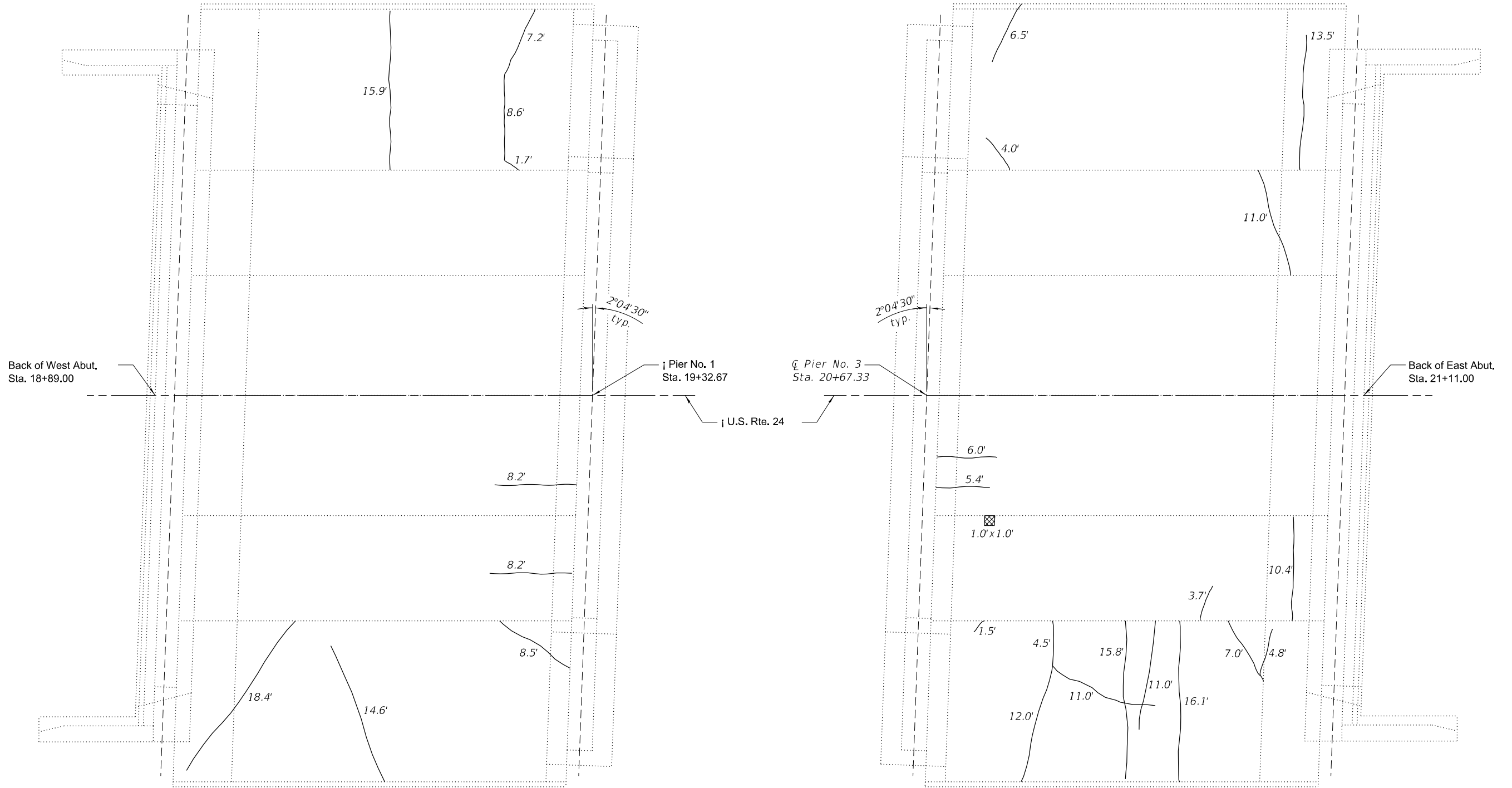
PIER NO. 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	35	#5	8'-7"	—
n(E)	182	#5	2'-5"	C
s1(E)	49	#5	8'-1"	□
Item			Unit	Quantity
Concrete Structures			Cu. Yd.	7.9
Reinforcement Bars, Epoxy Coated			Pound	1,190
Concrete Sealer			Sq. Ft.	311



NOTES:

- 1.) *Drill & epoxy grout #5 n(E) bars 9" min. into existing concrete according to Section 584 of the Standard Specifications.*
- 2.) *E.F. denotes Each Face and E.E. denotes Each End.*
- 3.) *Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the bearings after installation of proposed crash wall extensions.*
- 4.) *All work associated with attachment and/or reinstallation of steel plate beam guardrail will not be paid for separately, but shall be included in the cost of the work for which it is required.*



BILL OF MATERIAL

Item	Unit	Total
Slope Wall Crack Sealing	Foot	236
Slope Wall Repair	Sq. Yd.	5

PLAN

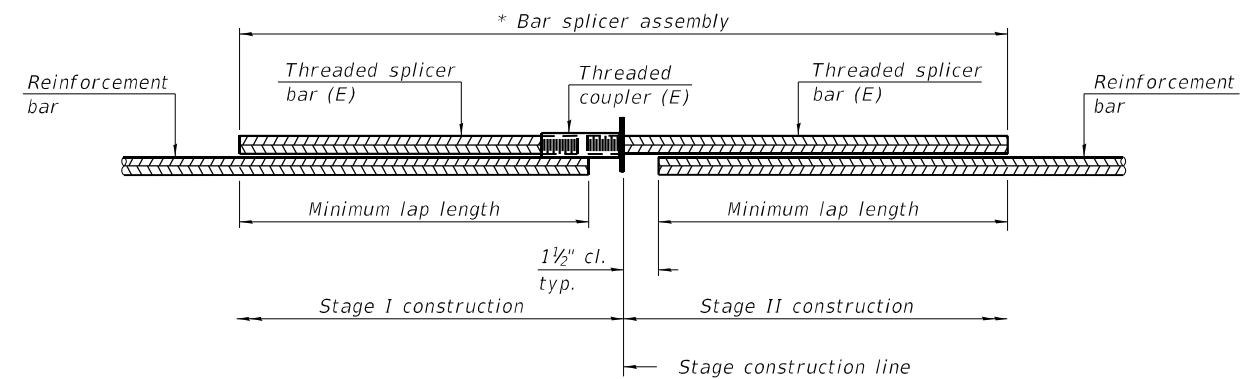


LEGEND

-  Slope Wall Repair
-  L.F. Slope Wall Crack Sealing

NOTES:

- Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0 weighing 58 lbs. per 100 sq. ft.
- The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- Quantities displayed in the Bill of Material with units of Sq. Yd. have been increased beyond the dimensions indicated in the Plan view shown on this sheet in order to provide a minimum of 5 Sq. Yd. for the purpose of establishing a unit price.



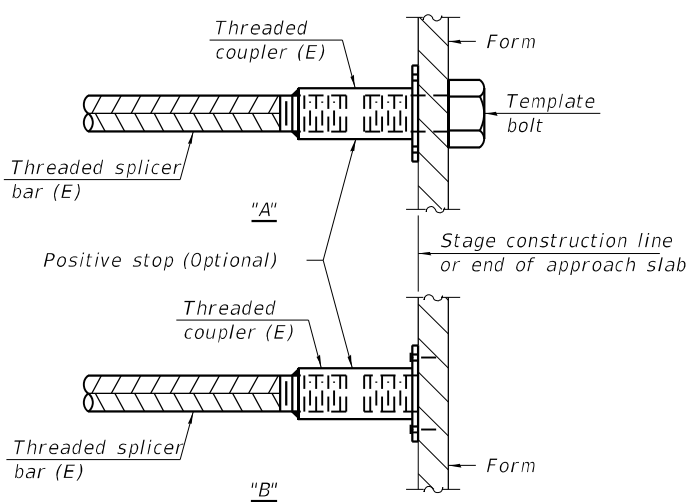
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck at Joint	#5	28	2'-10"
Deck at Joint	#6	8	3'-11"

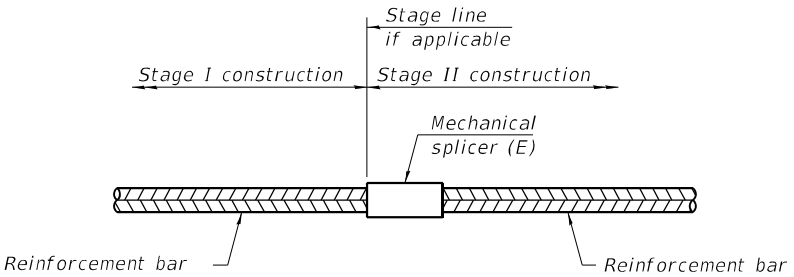


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

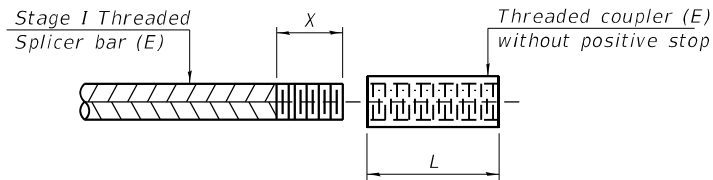
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



THREADING OF ASSEMBLIES

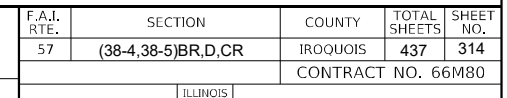
The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

Notes:
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

4-4-2025

No Salvage.

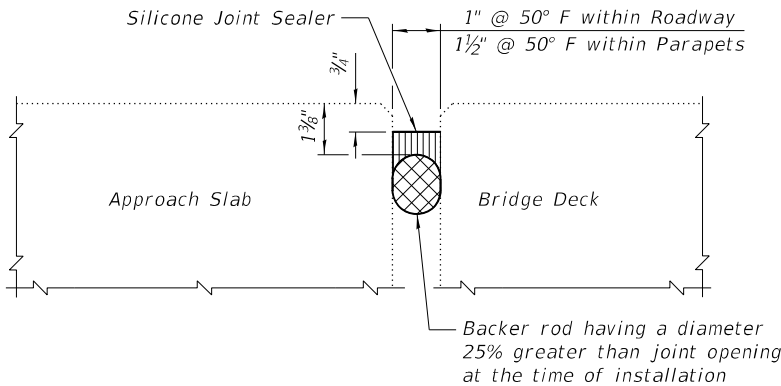


TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	25.3
Concrete Removal	Cu. Yd.	3.6
Protective Shield	Sq. Yd.	359
Concrete Superstructure	Cu. Yd.	17.7
Protective Coat	Sq. Yd.	50
Reinforcement Bars, Epoxy Coated	Pound	1,430
Concrete Sealer	Sq. Ft.	11,621
Controlled Low-Strength Material	Cu. Yd.	5.0
Bridge Deck Concrete Crack Sealer	Foot	527
Slope Wall Crack Sealing	Foot	190
Slope Wall Repair	Sq. Yd.	10
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	385
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5
Deck Slab Repair (Partial)	Sq. Yd.	10
Silicone Joint Sealer, 1"	Foot	59
Silicone Joint Sealer, 1.5"	Foot	9

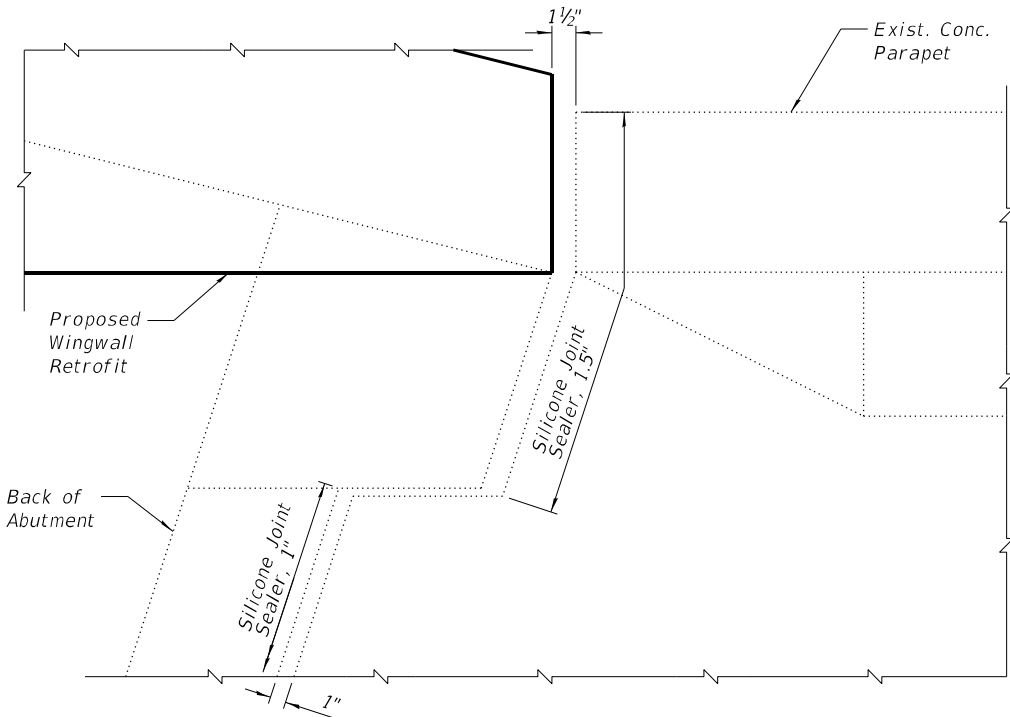
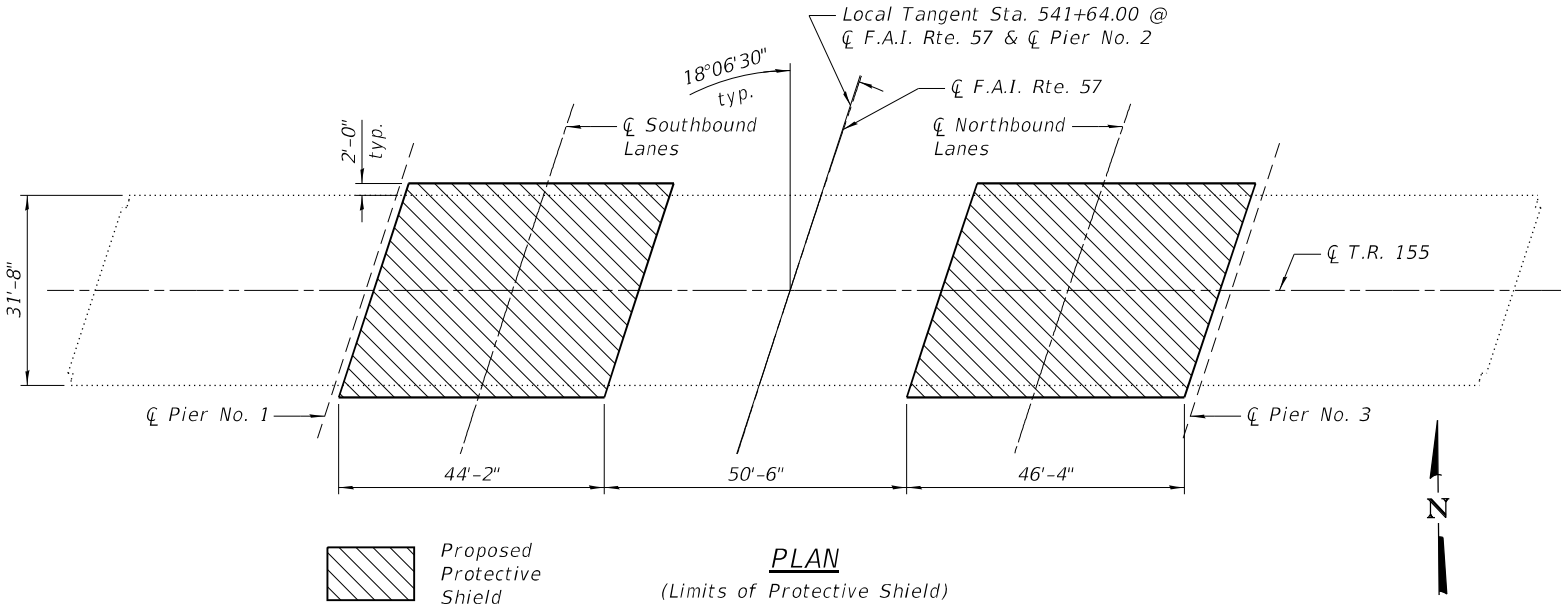
GENERAL NOTES:

- 1.) Reinforcement bars designated (E) shall be epoxy coated.
- 2.) Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 3.) Protective Coat shall only be applied to new concrete areas including the top surface of the deck slab repairs, and the top and vertical faces of wingwall retrofit.
- 4.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to the existing top and inside vertical faces of the parapets, top surface of bridge deck, and to all exposed faces of the abutments, existing wingwalls, and piers located below the bearings.
- 5.) Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at the contractor's expense.
- 6.) The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Deck Slab Repair.
- 7.) The Engineer shall show actual locations and size of deck repairs on As-built Plans.
- 8.) The Contractor may request copies of existing construction plans that are currently on file with the Department. The request shall be in writing with the understanding that any reproduction cost will be at the Contractor's expense at no additional cost to the Department.

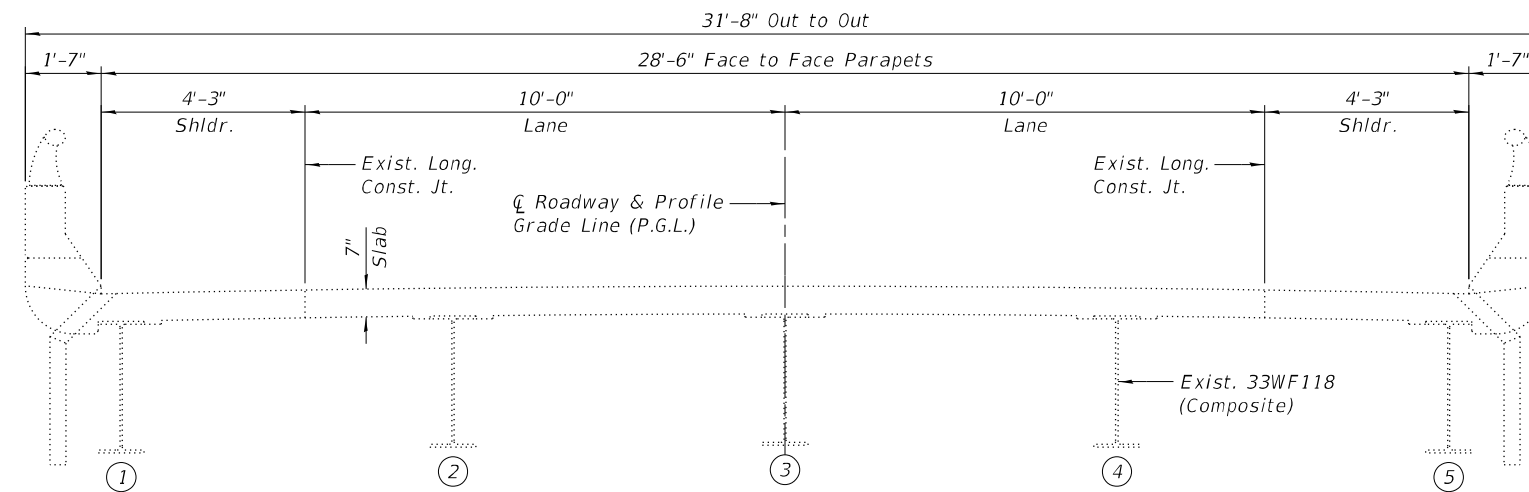


SILICONE JOINT SEALER DETAIL
AT ABUTMENT STEM WALL

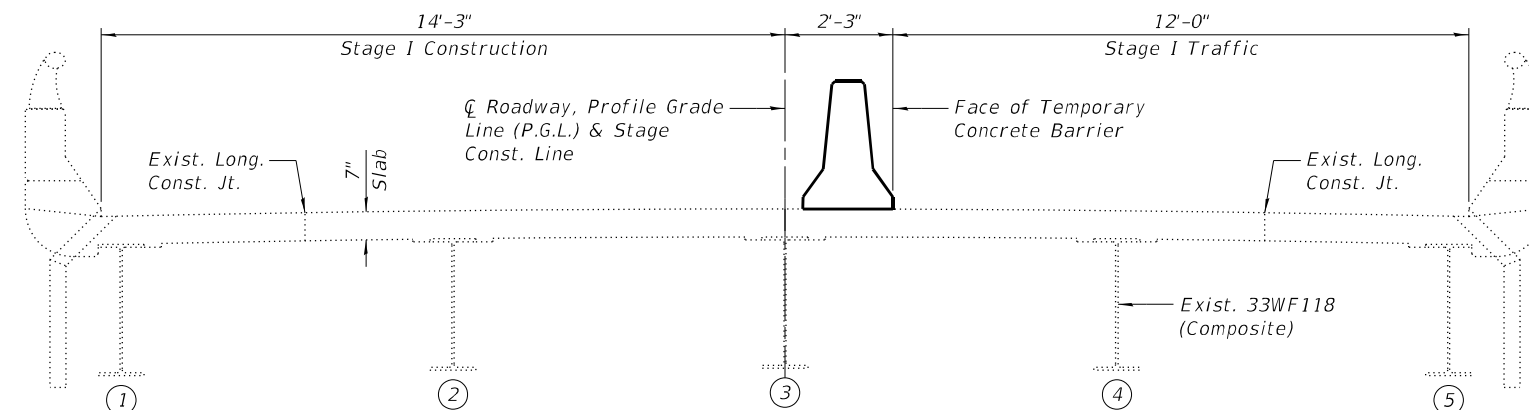
Remove existing joint seal and install replacement silicone joint sealer at approach slabs.



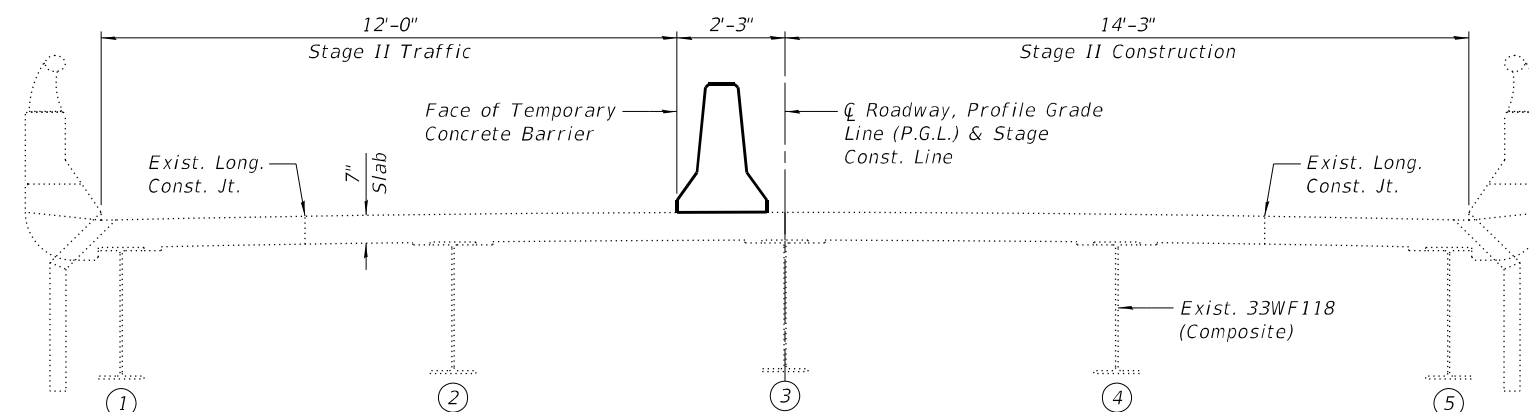
SILICONE JOINT SEALER
PLAN VIEW



EXISTING CROSS SECTION
(Looking East)

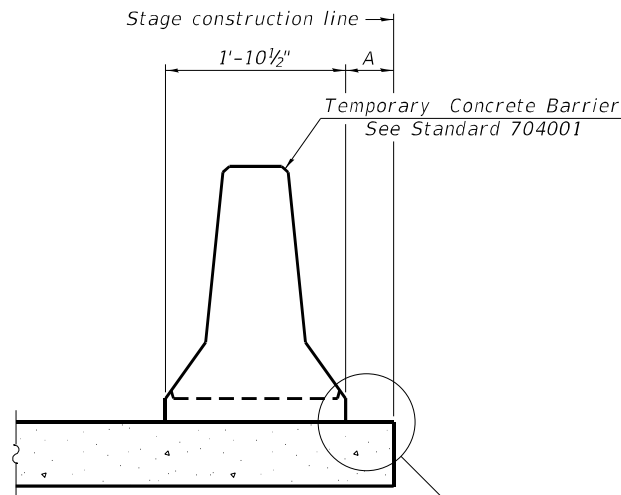


STAGE I CONSTRUCTION
(Looking East)



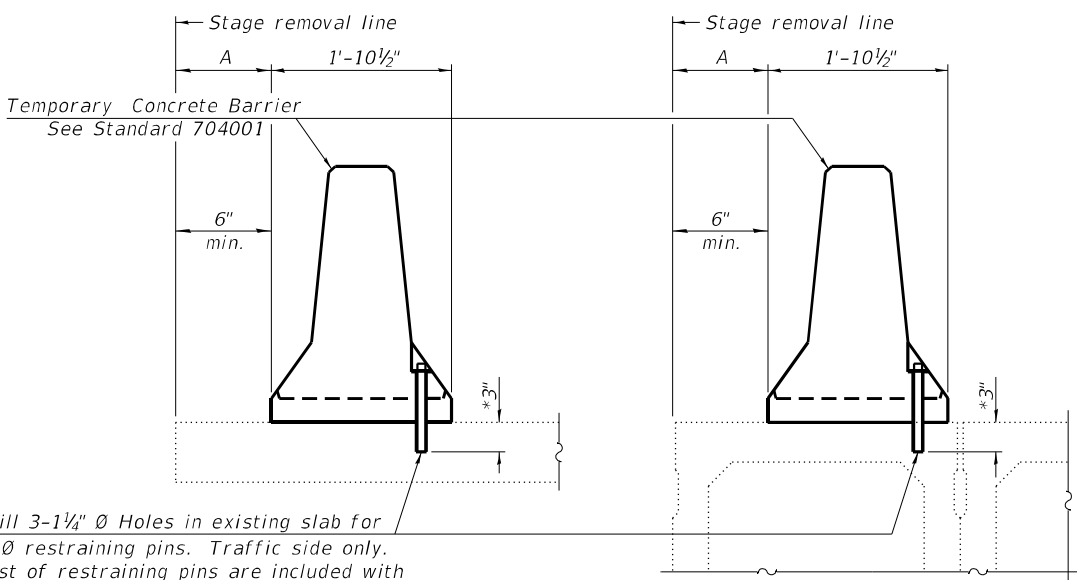
STAGE II CONSTRUCTION
(Looking East)

NOTE:
See Sheet 4 of 19 for Temporary Concrete Barrier.



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



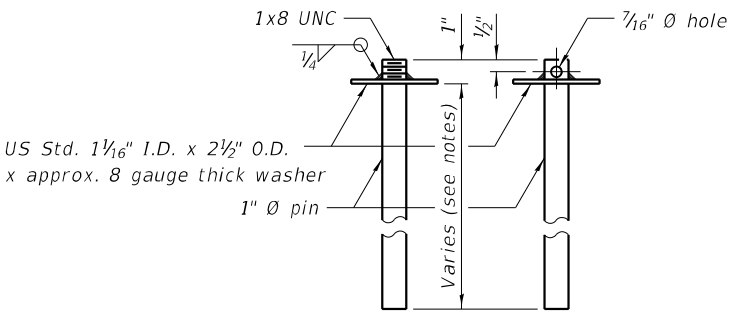
Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

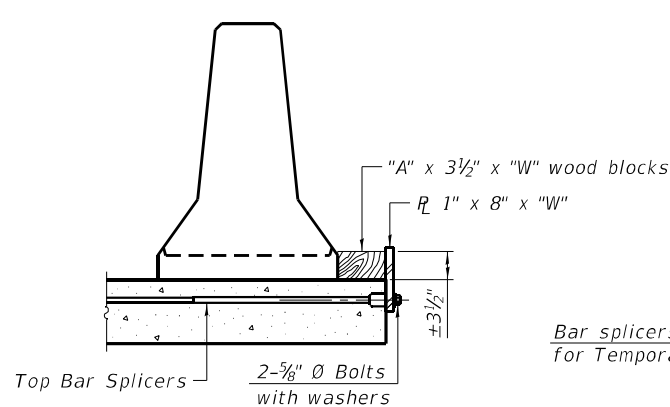
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

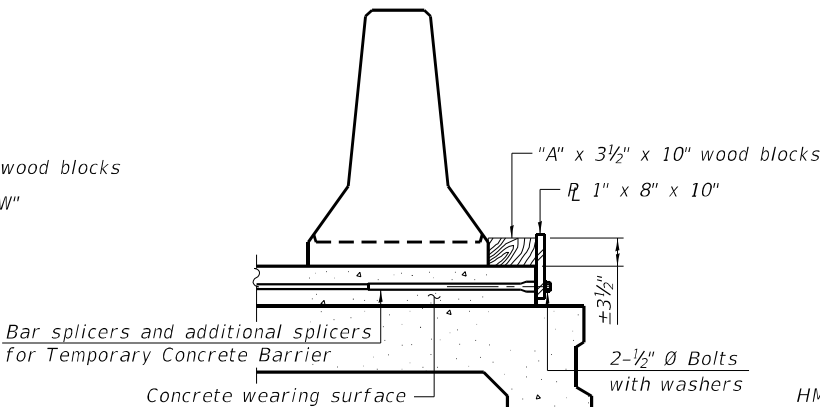
SECTIONS THRU SLAB OR DECK BEAM



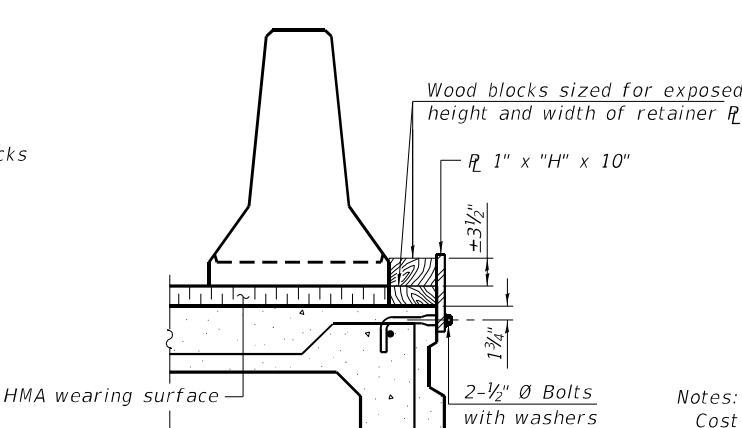
RESTRAINING PIN



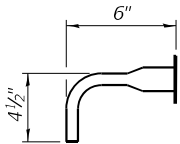
DETAIL I



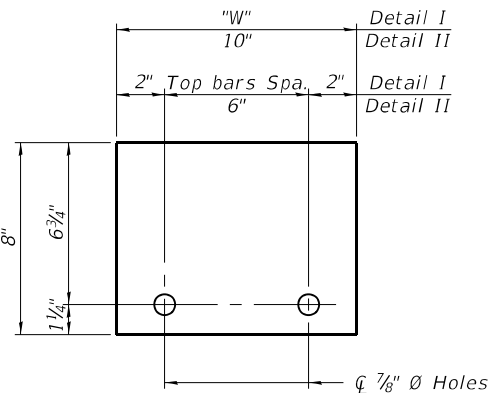
DETAIL II



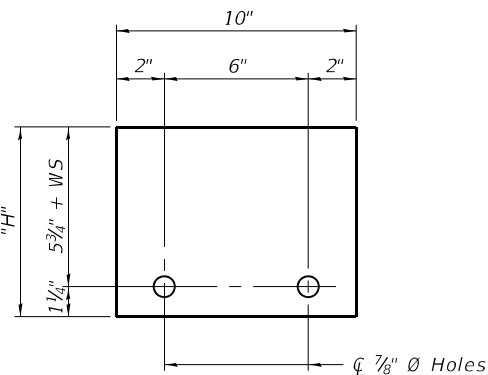
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R_L 1" x 8" x "W"
(Detail I and II)



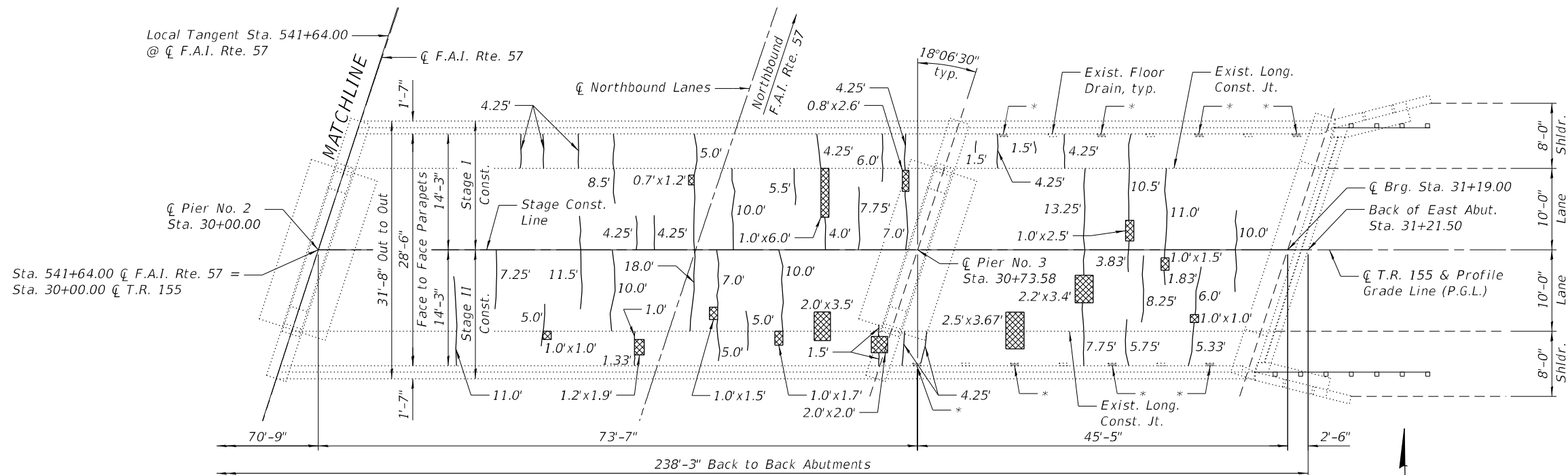
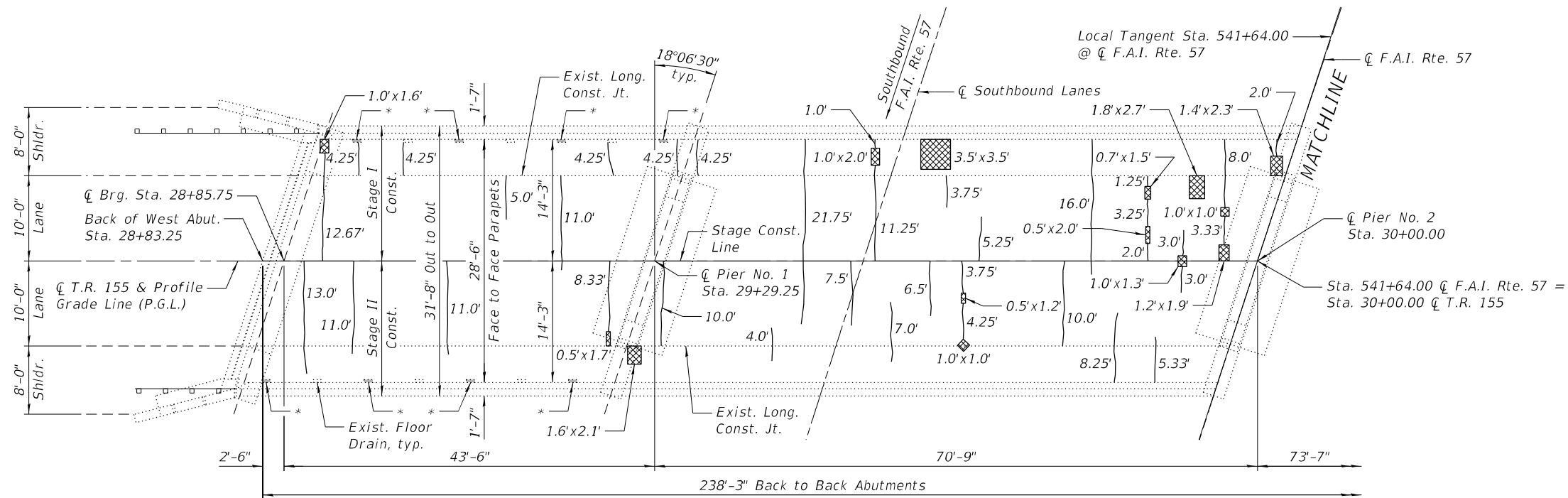
STEEL RETAINER R_L 1" x "H" x 10"
(Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-23



PLAN

LEGEND

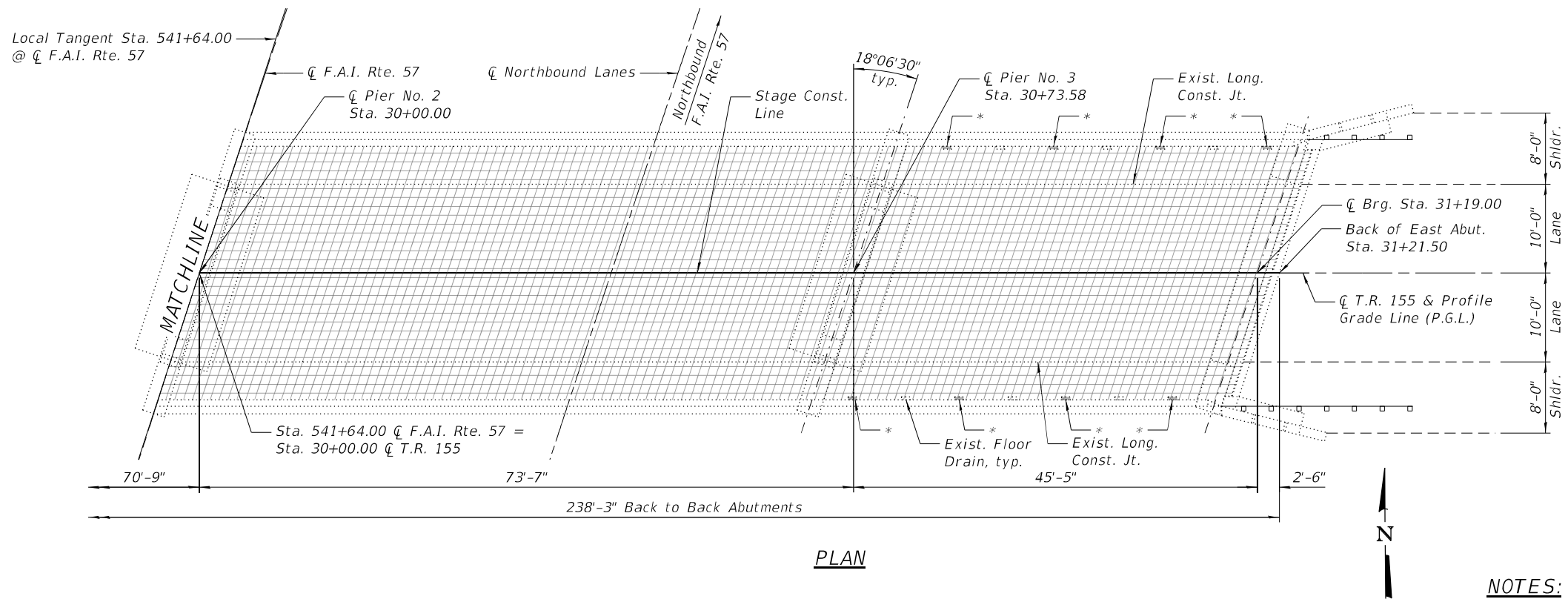
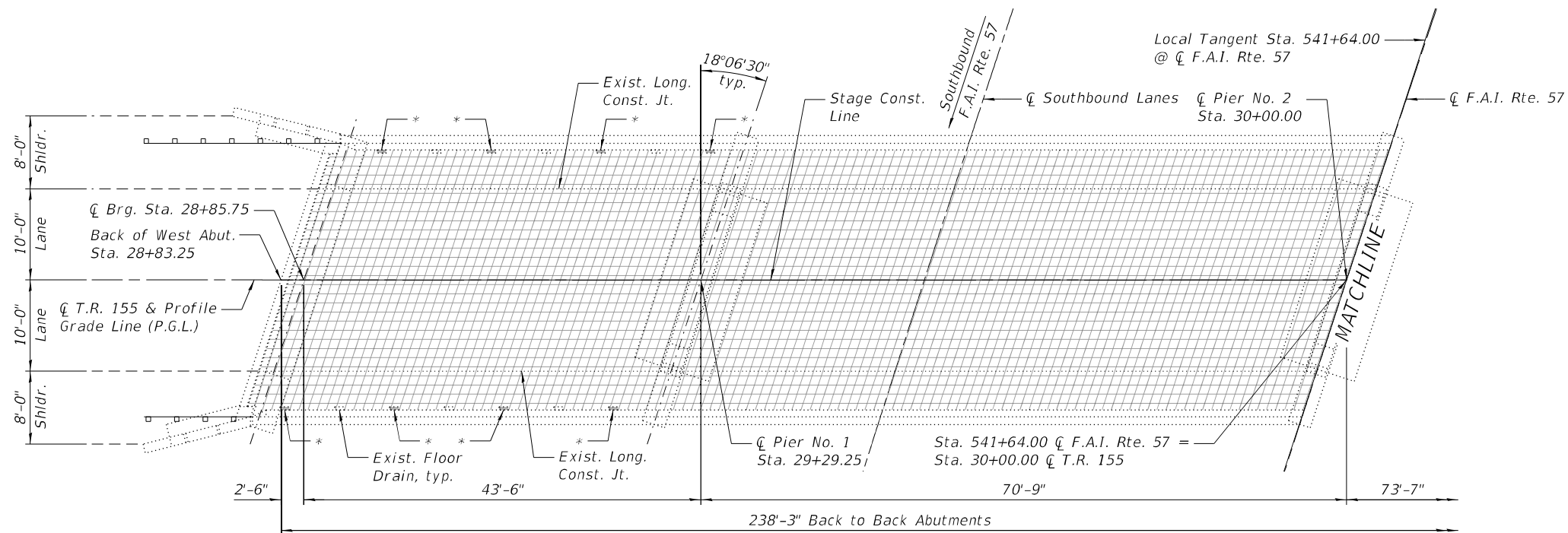
-  Deck Slab Repair (Partial)
-  L.F. Bridge Deck Concrete Crack Sealer

BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Concrete Crack Sealer	Foot	527
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5
Deck Slab Repair (Partial)	Sq. Yd.	10

NOTES:

- The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions, and documented by the Engineer on the As Built plan sheet.
- *Existing Floor Drain plugged as part of previous work.
- The quantity shown for Deck Slab Repair (Full Depth, Type I) has been included to provide a minimum of 5 Sq. Yd. for the purpose of establishing a unit price.

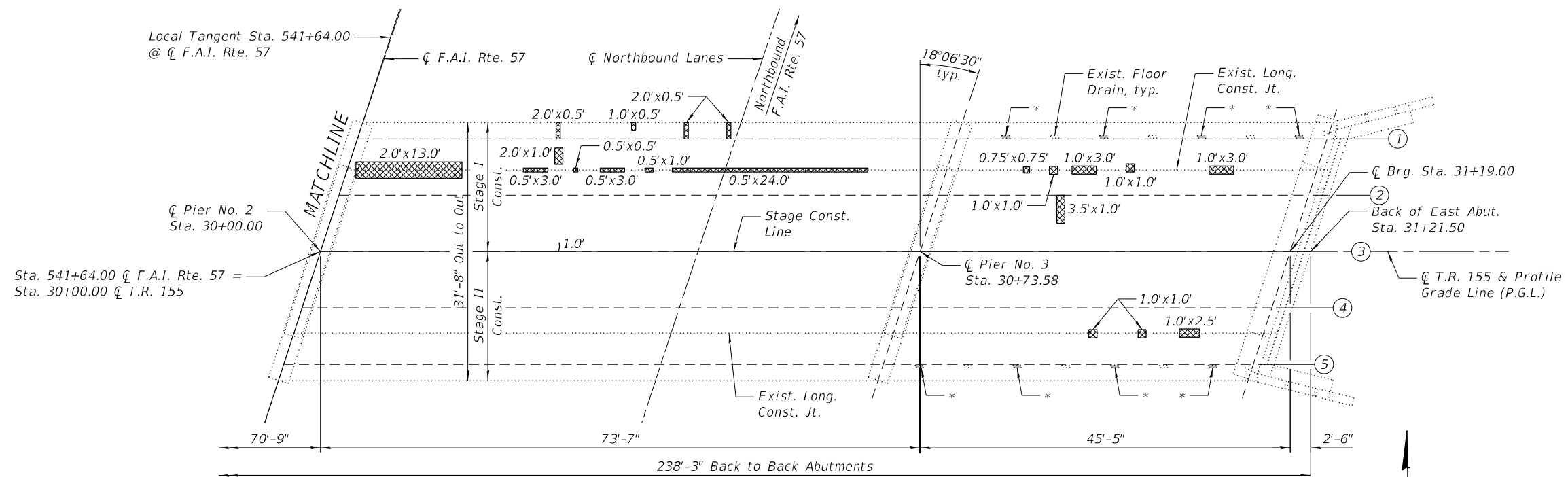


PLAN



NOTES:

- 1.) The Engineer shall record the As Built deck slab repair areas on this sheet.
- 2.) The reference grid was drawn in 1' transverse and longitudinal increments.
- 3.) *Existing Floor Drain plugged as part of previous work.

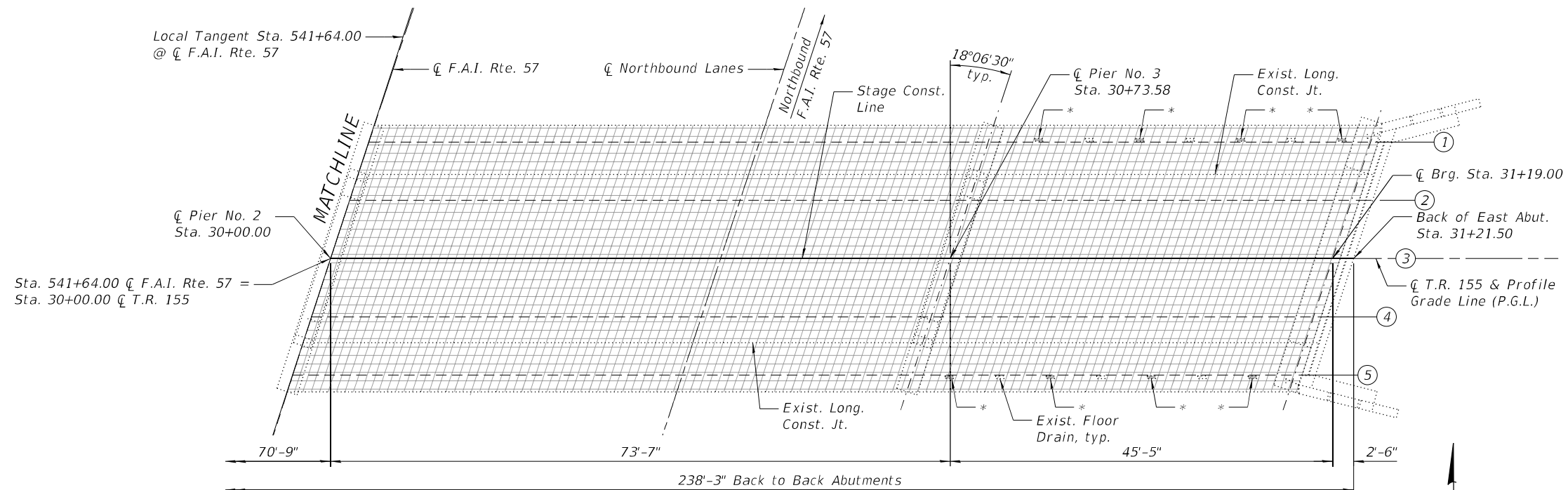
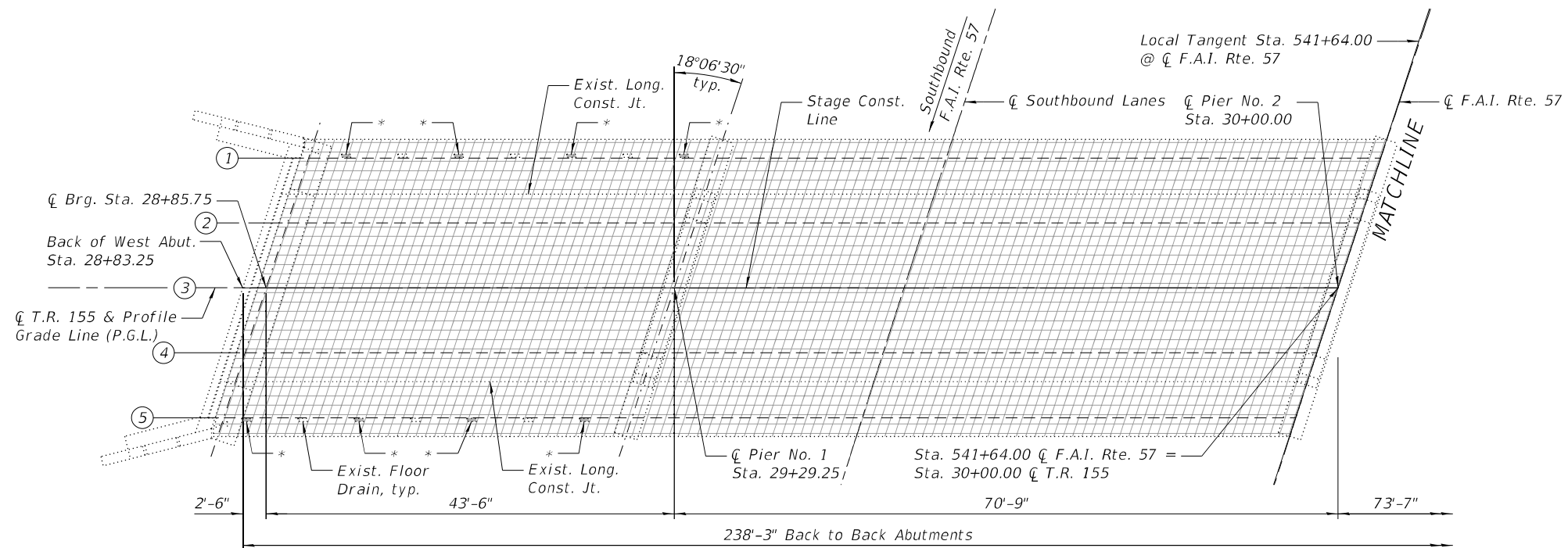


N

 Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)

<i>Item</i>	<i>Unit</i>	<i>Total</i>
<i>Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)</i>	<i>Sq. Ft.</i>	<i>158</i>

- 1.) *The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions, and documented by the Engineer on the As Built plan sheet.*
- 2.) **Existing Floor Drain plugged as part of previous work.*

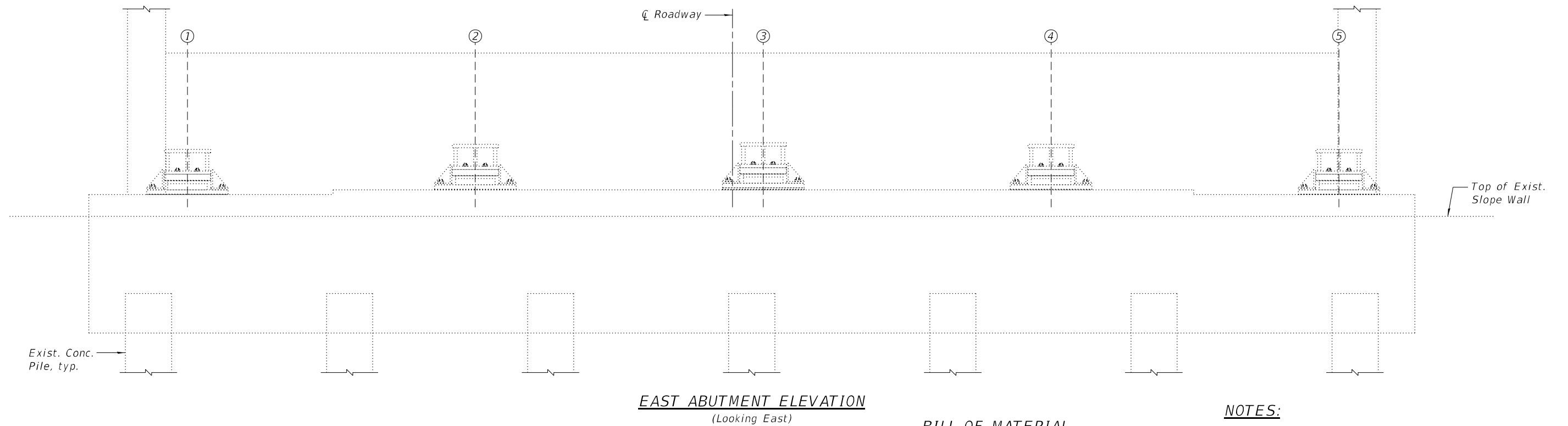
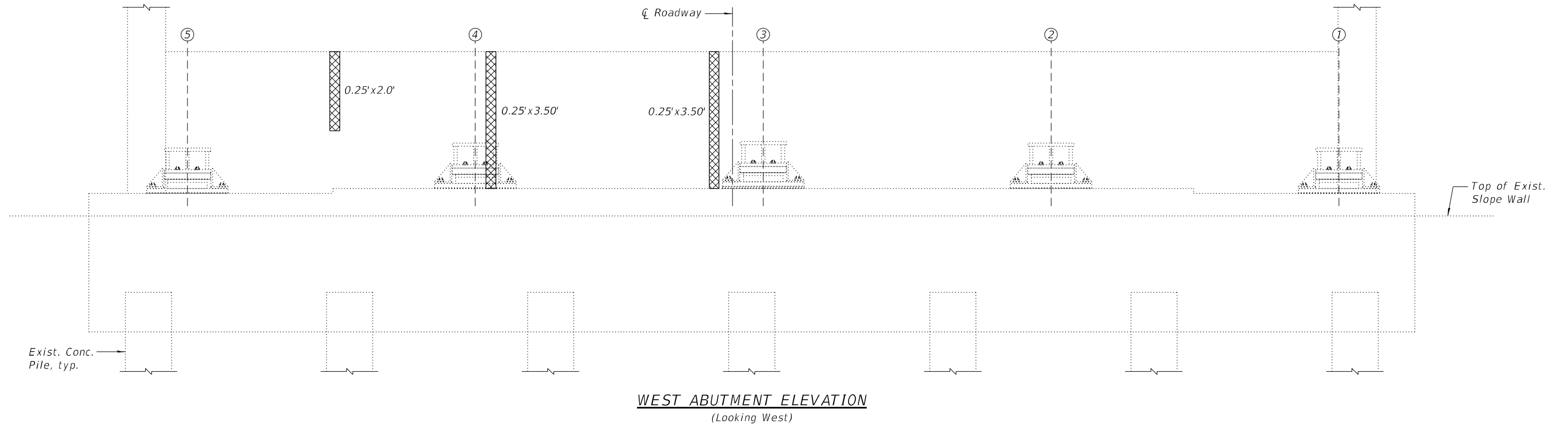


PLAN



NOTES:

- 1.) The Engineer shall record the As Built deck slab repair areas on this sheet.
- 2.) The reference grid was drawn in 1' transverse and longitudinal increments.
- 3.) *Existing Floor Drain plugged as part of previous work.



LEGEND

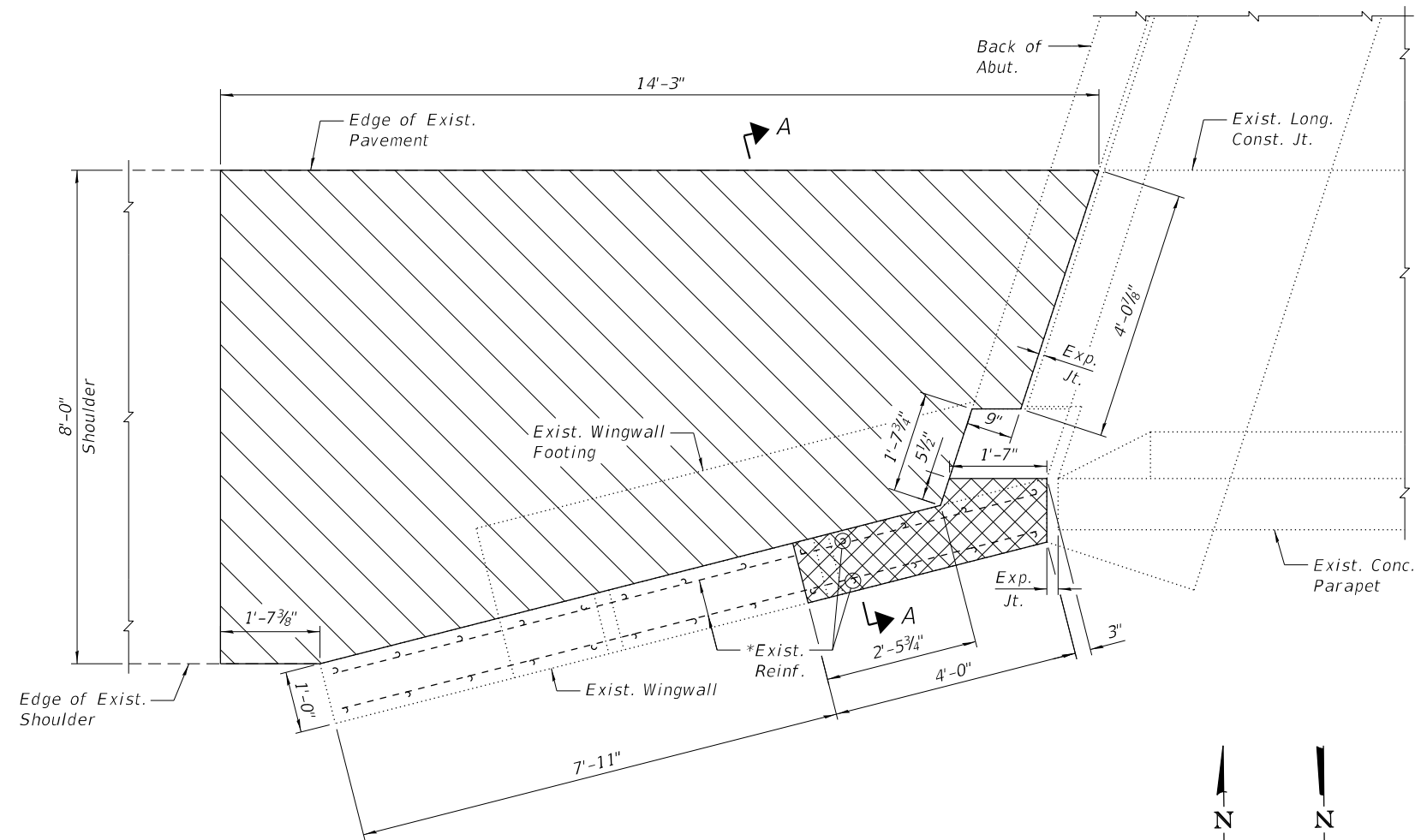
Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)

BILL OF MATERIAL

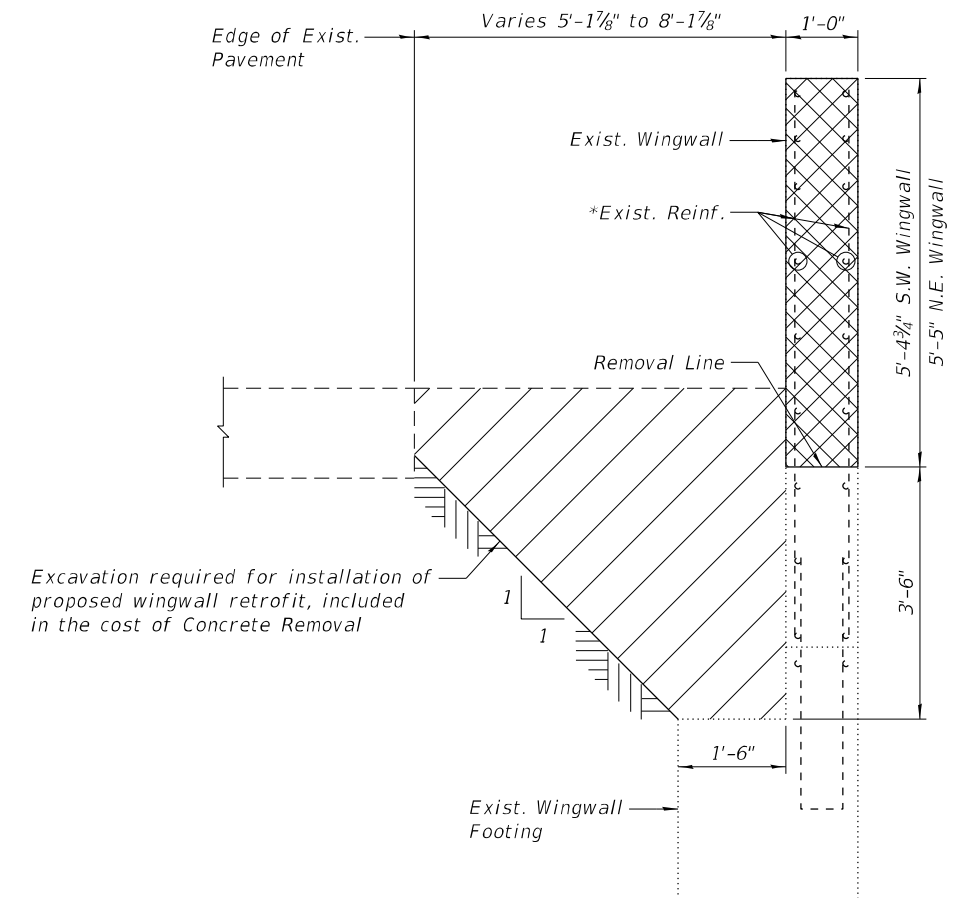
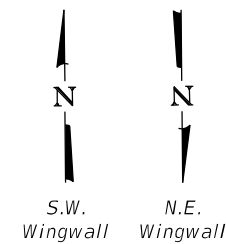
Item	Unit	Total
Concrete Sealer	Sq. Ft.	469
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	3

NOTES:

- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of the abutments.



REMOVAL PLAN SOUTHWEST & NORTHEAST WINGWALL

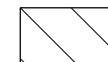


SECTION A-A
(Horiz. dimensions @ Rt. L's)

LEGEND



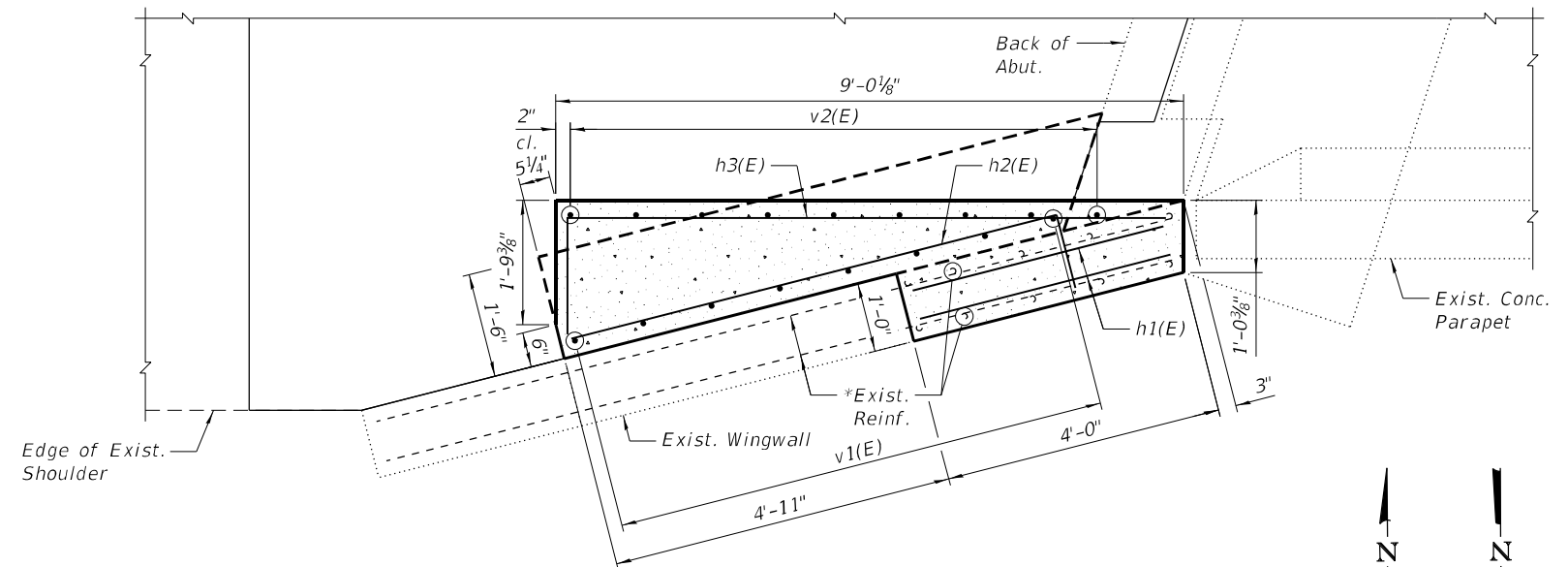
Concrete Removal



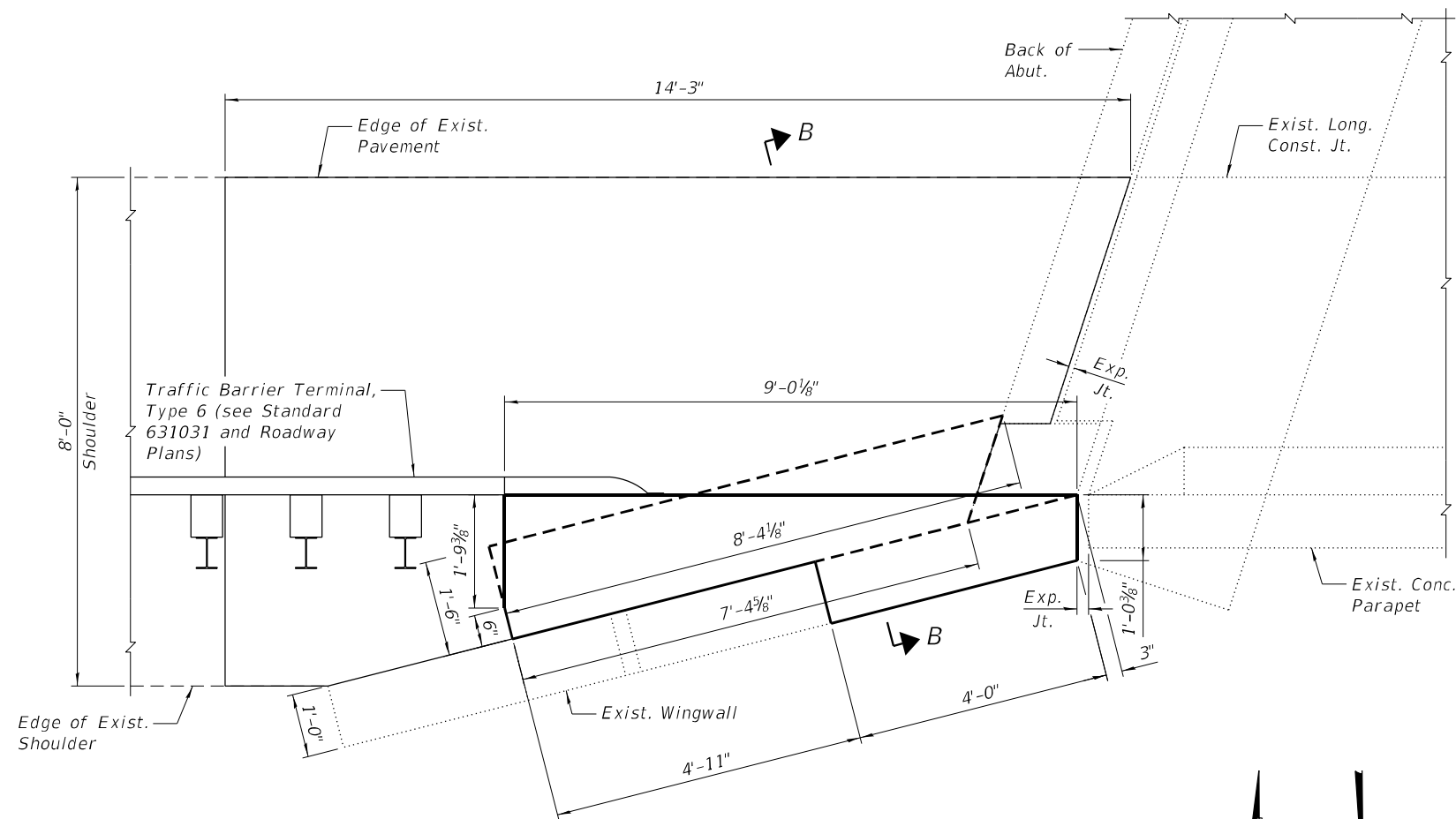
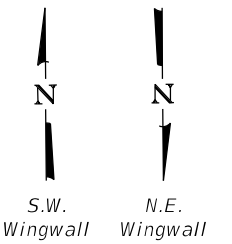
Excavation Required for Installation of Proposed Wingwall Retrofit

NOTE:

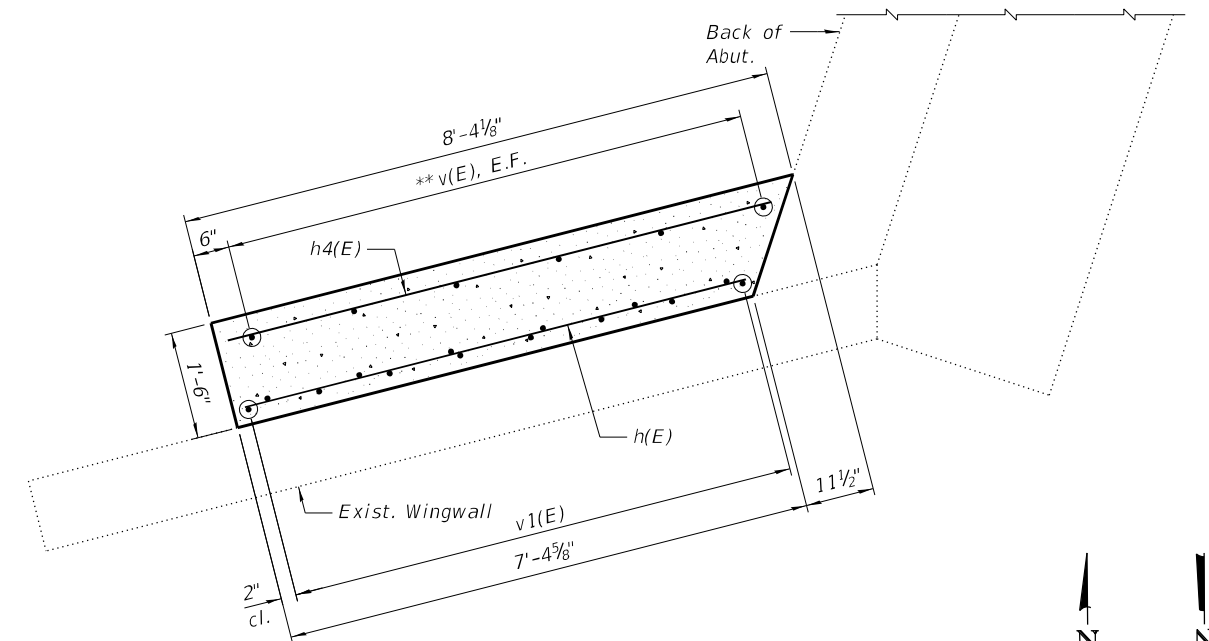
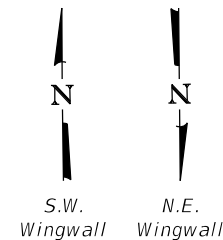
- 1.) *Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost shall be included with Concrete Removal.
- 2.) Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.



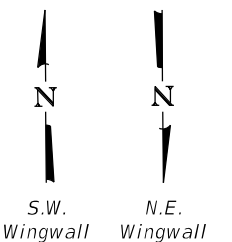
UPPER PLAN SOUTHWEST & NORTHEAST WINGWALL
(Showing Reinforcement above Removal Line & Const. Jt.)



PLAN SOUTHWEST & NORTHEAST WINGWALL



LOWER PLAN SOUTHWEST & NORTHEAST WINGWALL
(Showing Reinforcement below Removal Line & Const. Jt.)

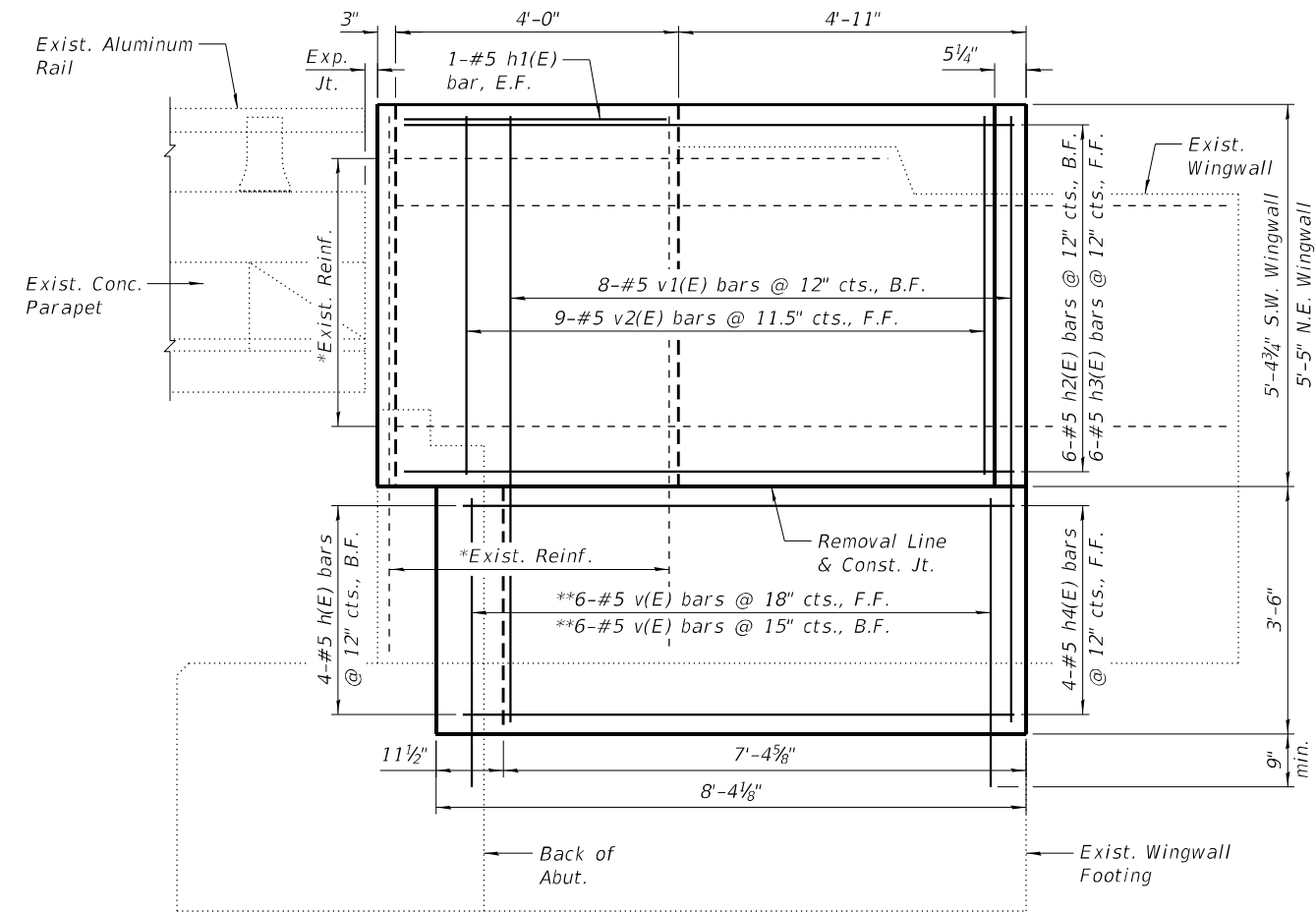


NOTES:

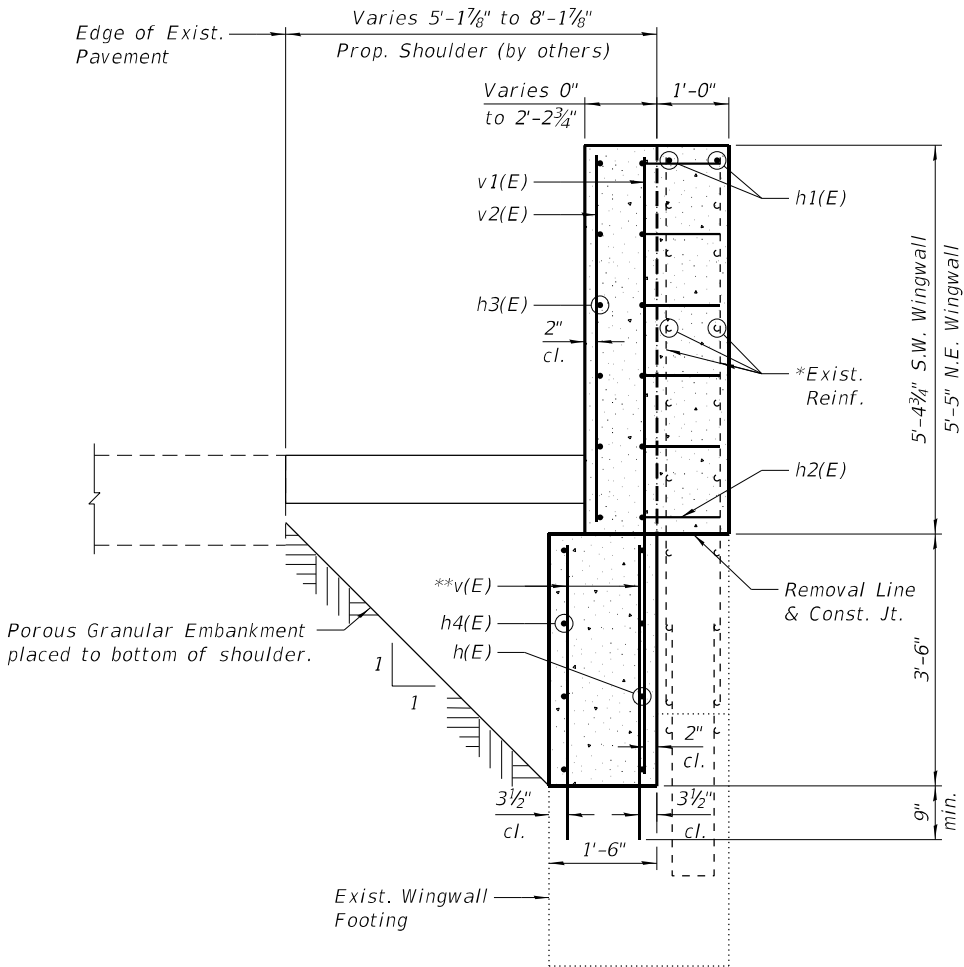
- 1.) *Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost shall be included with Concrete Removal.
- 2.) Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
- 3.) **Epoxy grout v(E) bars in 9" deep (min.) drilled holes, 7/8" ϕ , according to Section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.
- 4.) E.F. denotes Each Face.
- 5.) See Sheet 12 of 19 for Section B-B.
- 6.) See Roadway Plans for proposed shoulder details.

SOUTHWEST & NORTHEAST
WINGWALL BILL OF MATERIAL

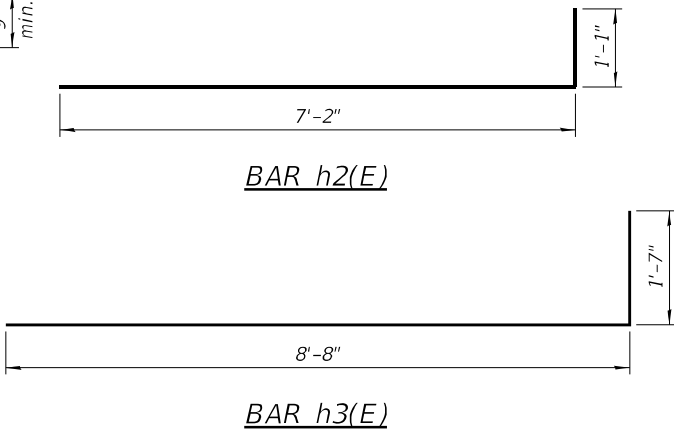
Bar	No.	Size	Length	Shape
h(E)	8	#5	7'-1"	
h1(E)	4	#5	3'-8"	
h2(E)	12	#5	8'-3"	
h3(E)	12	#5	10'-3"	
h4(E)	8	#5	7'-9"	
v(E)	24	#5	4'-1"	
v1(E)	16	#5	8'-7"	
v2(E)	18	#5	5'-1"	
Item			Unit	Quantity
Concrete Removal			Cu. Yd.	1.8
Concrete Superstructure			Cu. Yd.	8.9
Reinforcement Bars, Epoxy Coated			Pound	720



INSIDE ELEVATION SOUTHWEST & NORTHEAST WINGWALL
(Traffic Barrier Terminal, Type 6 not shown for clarity.
For Type 6 terminal connections, see Highway Standard 631031.)

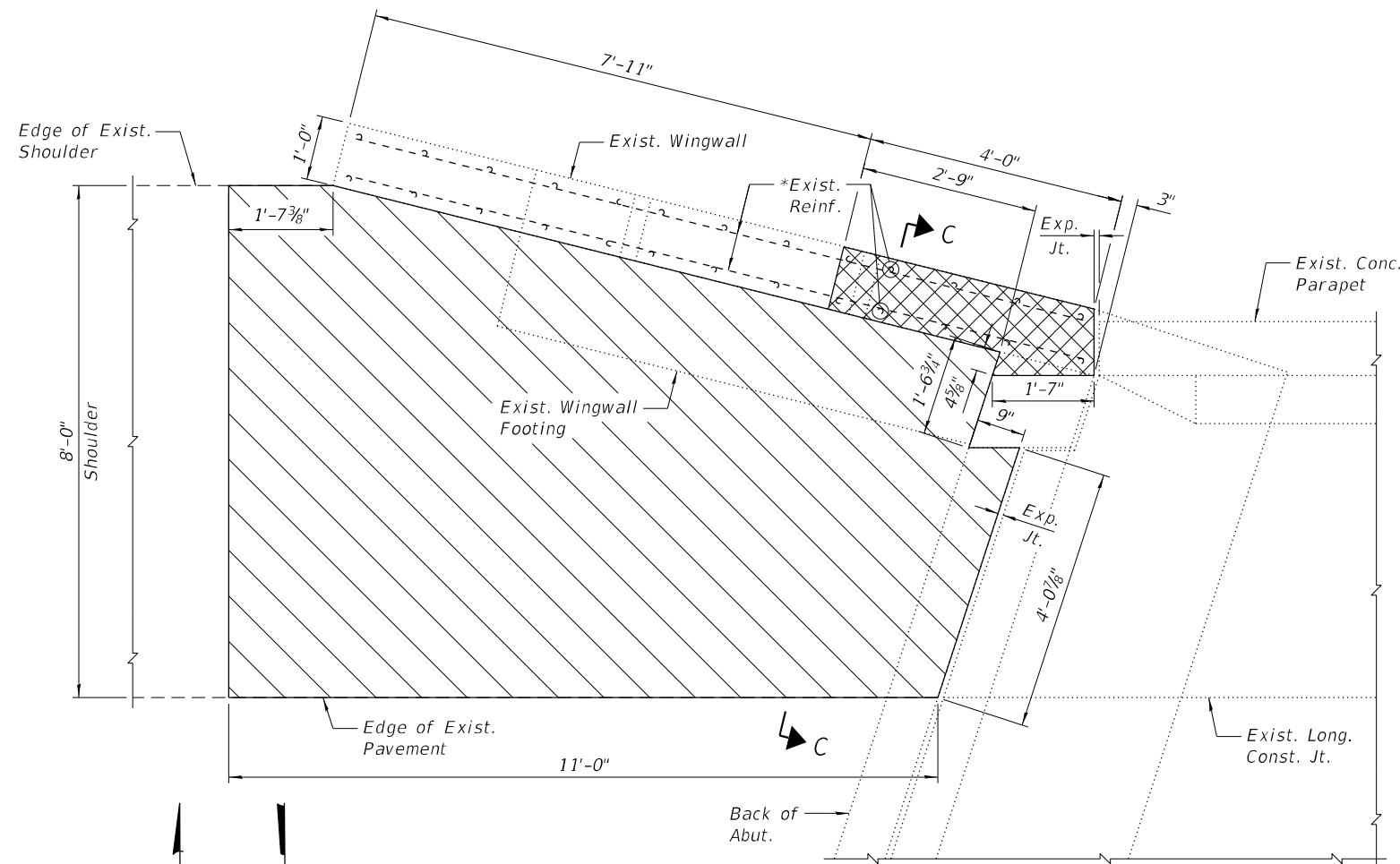


SECTION B-B
(Horiz. dimensions @ Rt. L's)



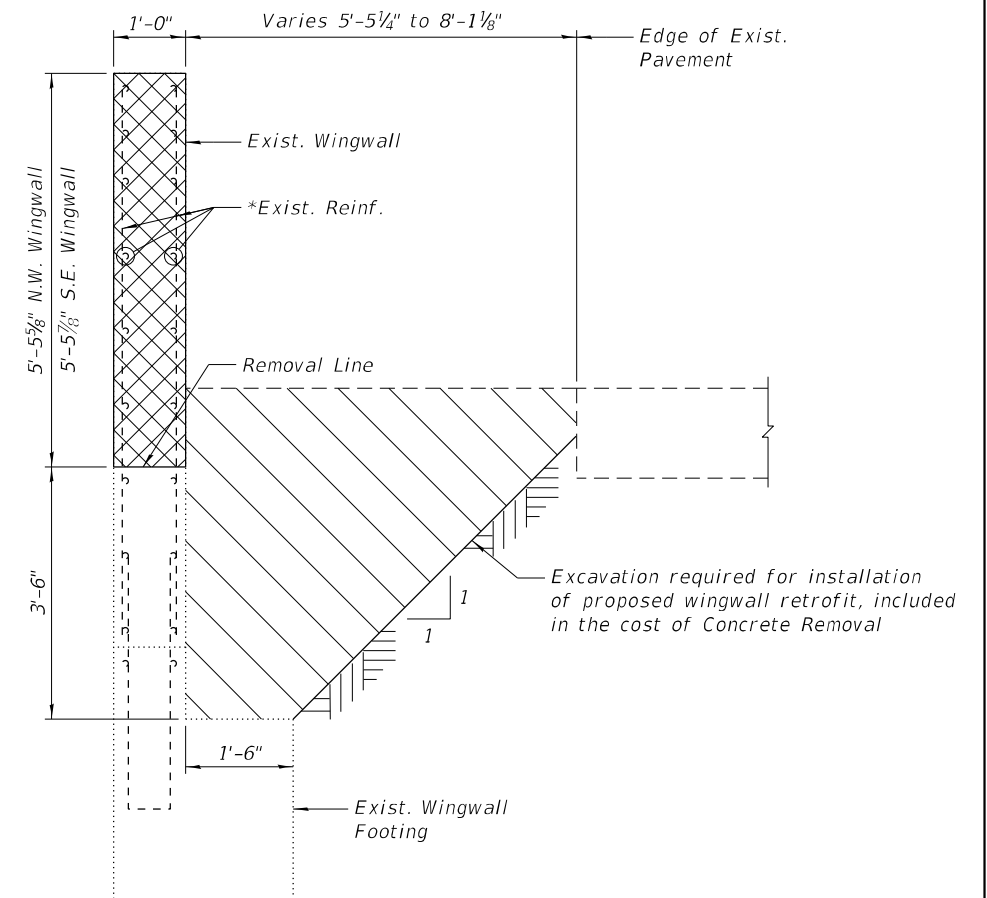
NOTES:

- 1.) *Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost shall be included with Concrete Removal.
- 2.) Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
- 3.) **Epoxy grout v(E) bars in 9' deep (min.) drilled holes, 7/8" ø, according to Section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.
- 4.) E.F. denotes Each Face, B.F. denotes Back Face, and F.F. denotes Front Face.
- 5.) See Roadway Plans for proposed shoulder details.



REMOVAL PLAN NORTHWEST & SOUTHEAST WINGWALL

N
N
N.W.
Wingwall
S.E.
Wingwall

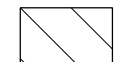


SECTION C-C
(Horiz. dimensions @ Rt. L's)

LEGEND



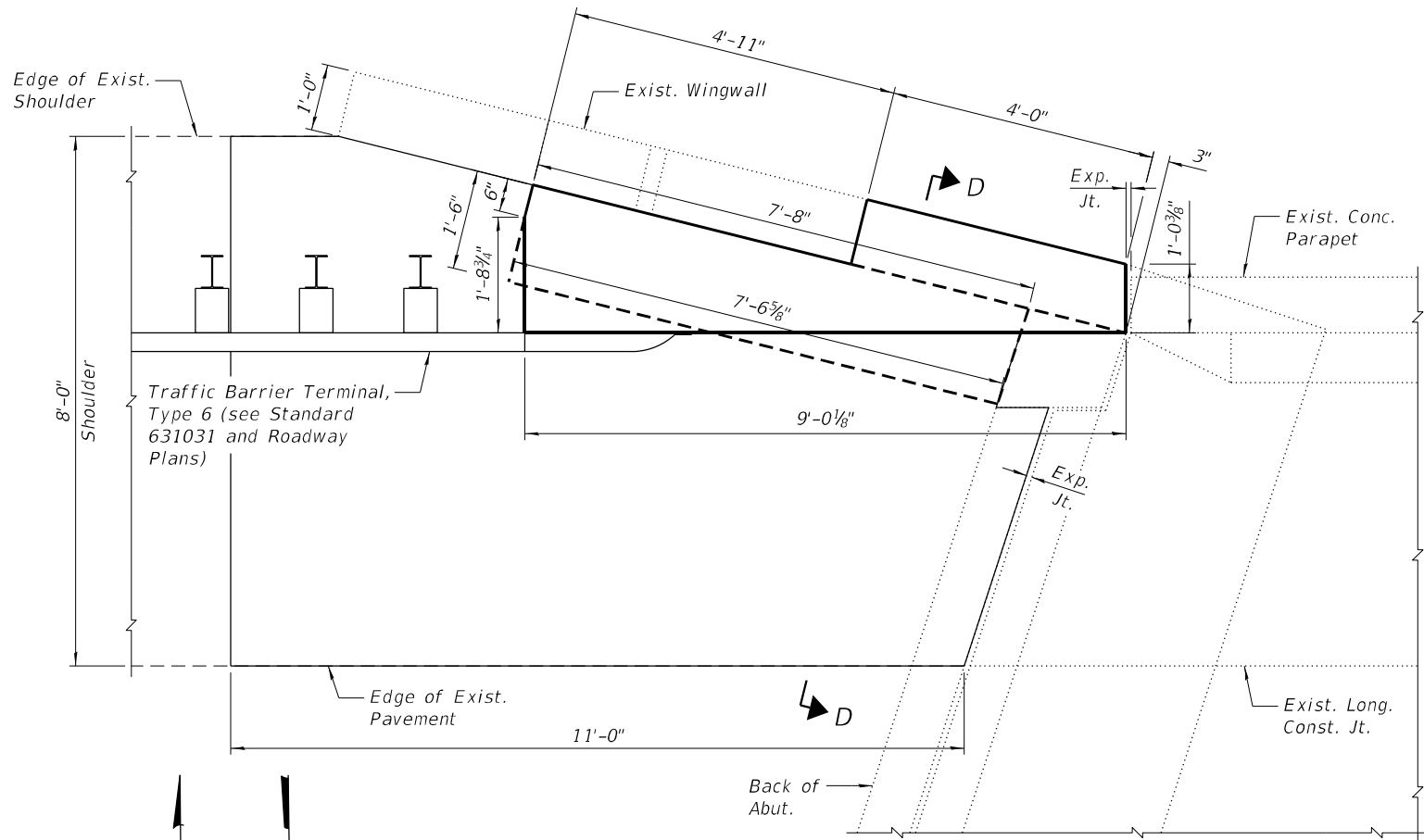
Concrete Removal



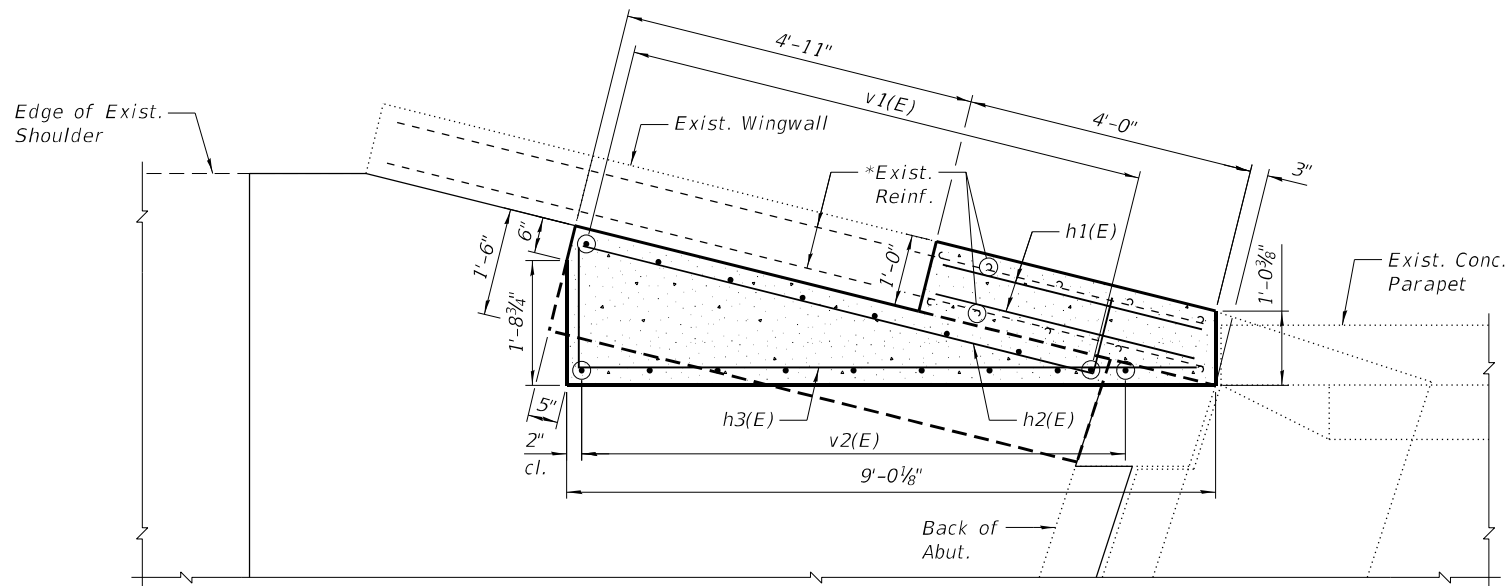
Excavation Required for Installation
of Proposed Wingwall Retrofit

NOTE:

- 1.) *Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost shall be included with Concrete Removal.
- 2.) Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

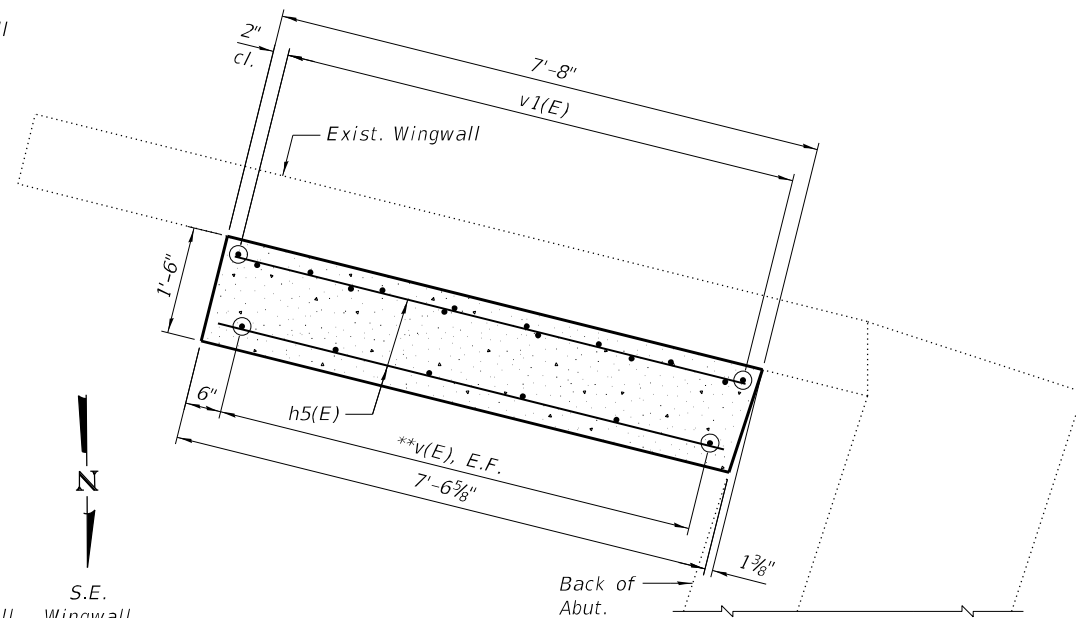
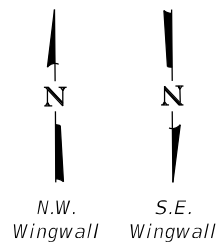


PLAN NORTHWEST & SOUTHEAST WINGWALL



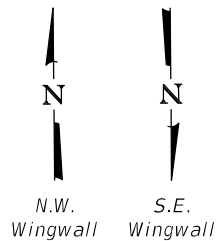
UPPER PLAN NORTHWEST & SOUTHEAST WINGWALL

(Showing Reinforcement above Removal Line & Const. Jt.)



LOWER PLAN NORTHWEST & SOUTHEAST WINGWALL

(Showing Reinforcement below Removal Line & Const. Jt.)

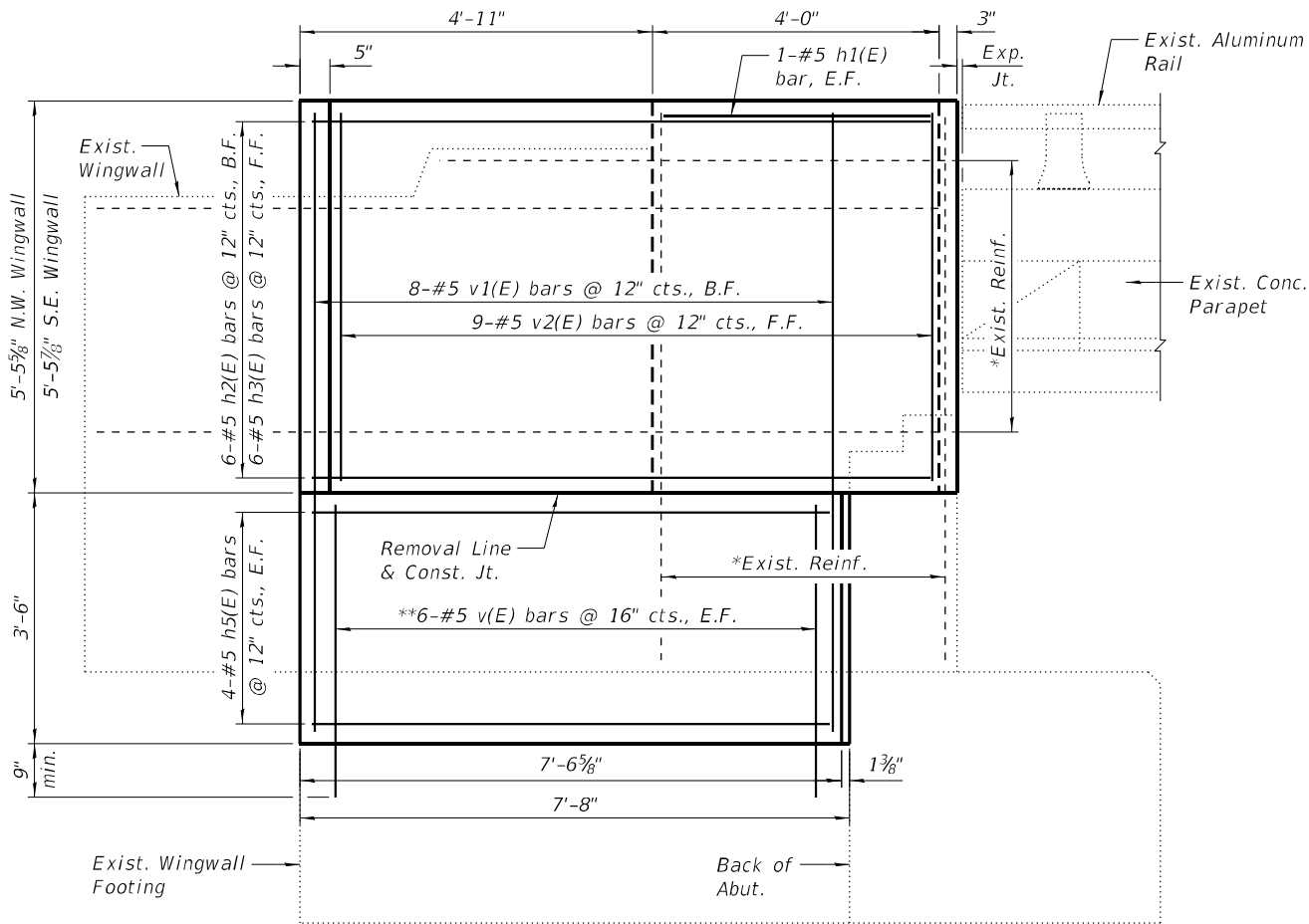


NOTES:

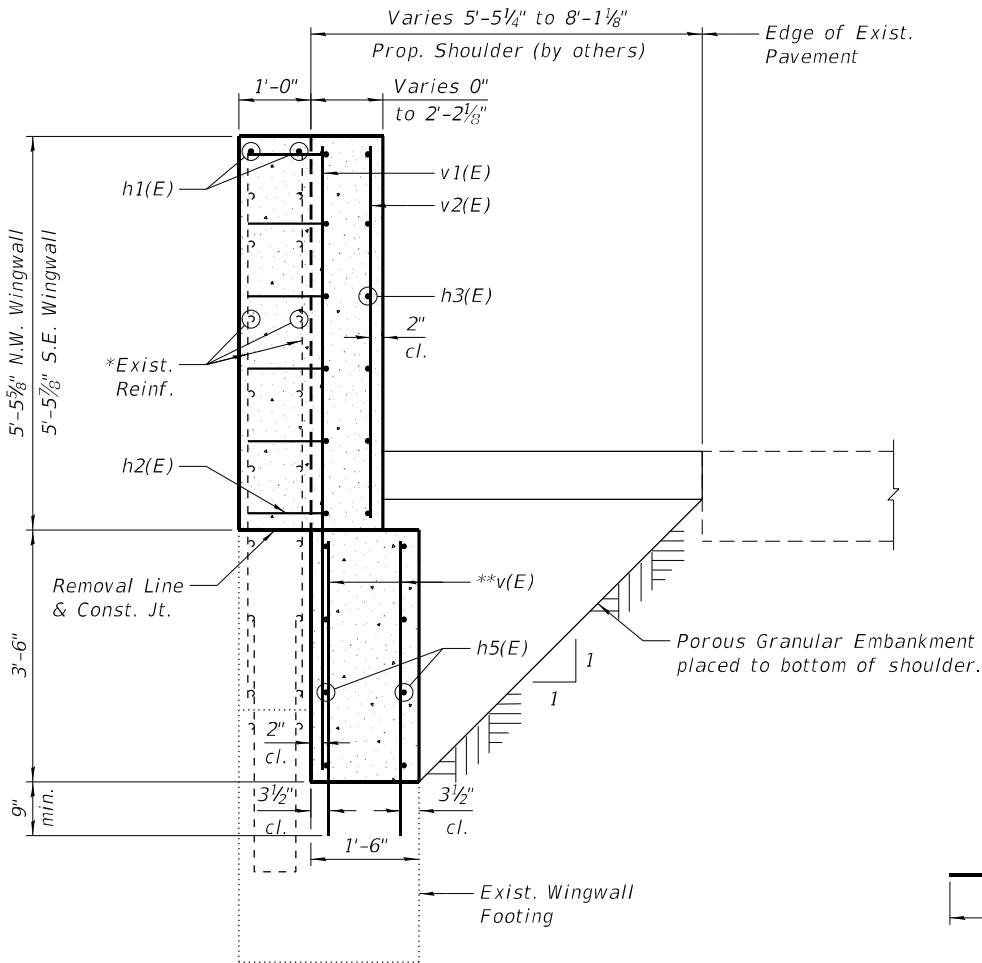
- 1.) *Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost shall be included with Concrete Removal.
- 2.) Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
- 3.) **Epoxy grout v(E) bars in 9" deep (min.) drilled holes, 7/8" ϕ , according to Section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.
- 4.) E.F. denotes Each Face.
- 5.) See Sheet 15 of 19 for Section D-D.
- 6.) See Roadway Plans for proposed shoulder details.

NORTHWEST & SOUTHEAST
WINGWALL BILL OF MATERIAL

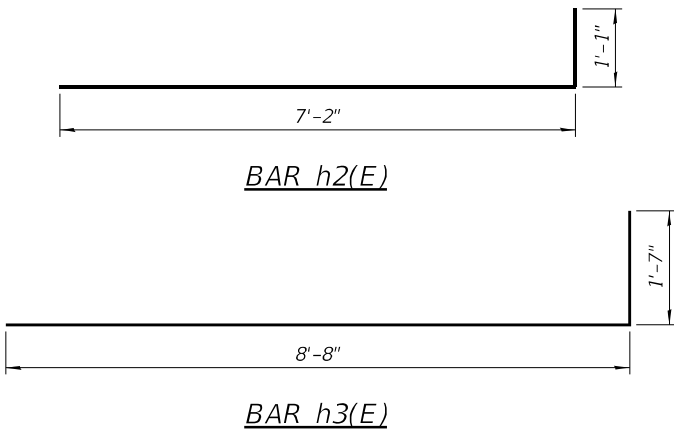
Bar	No.	Size	Length	Shape
h1(E)	4	#5	3'-8"	
h2(E)	12	#5	8'-3"	
h3(E)	12	#5	10'-3"	
h5(E)	16	#5	7'-2"	
v(E)	24	#5	4'-1"	
v1(E)	16	#5	8'-7"	
v2(E)	18	#5	5'-1"	
Item			Unit	Quantity
Concrete Removal			Cu. Yd.	1.8
Concrete Superstructure			Cu. Yd.	8.8
Reinforcement Bars, Epoxy Coated			Pound	710



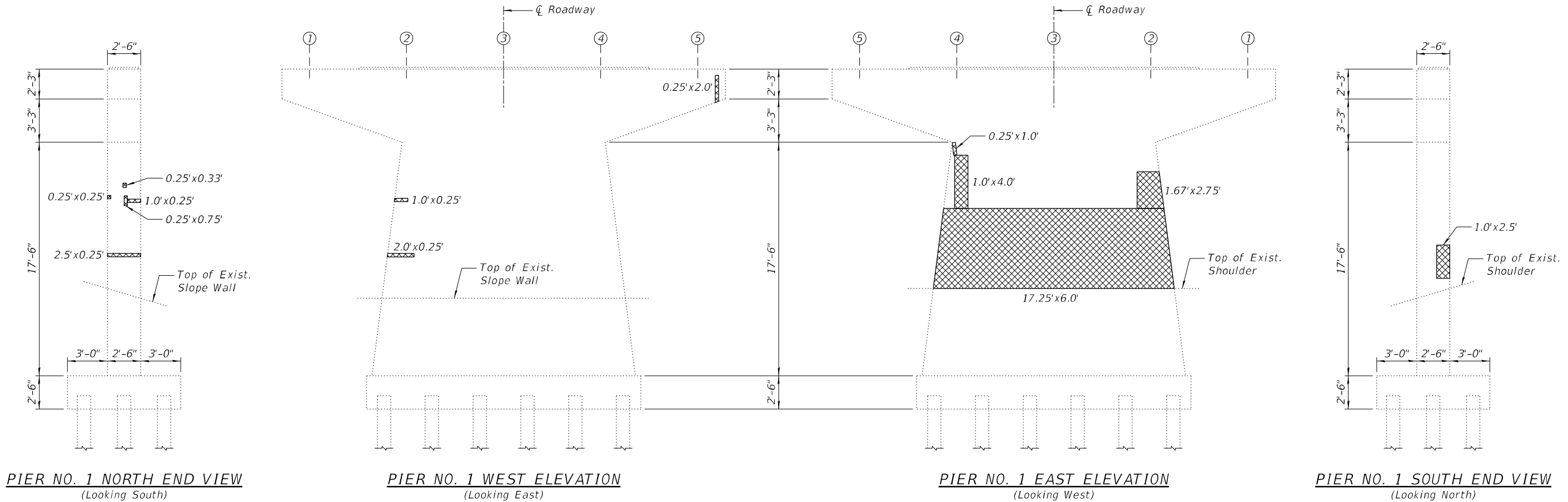
INSIDE ELEVATION NORTHWEST & SOUTHEAST WINGWALL
(Traffic Barrier Terminal, Type 6 not shown for clarity.
For Type 6 terminal connections, see Highway Standard 631031.)



SECTION D-D
(Horiz. dimensions @ Rt. L's)



- NOTES:
- Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost shall be included with Concrete Removal.
 - Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
 - **Epoxy grout v(E) bars in 9" deep (min.) drilled holes, 7/8" Ø, according to Section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.
 - E.F. denotes Each Face, B.F. denotes Back Face, and F.F. denotes Front Face.
 - See Roadway Plans for proposed shoulder details.



LEGEND

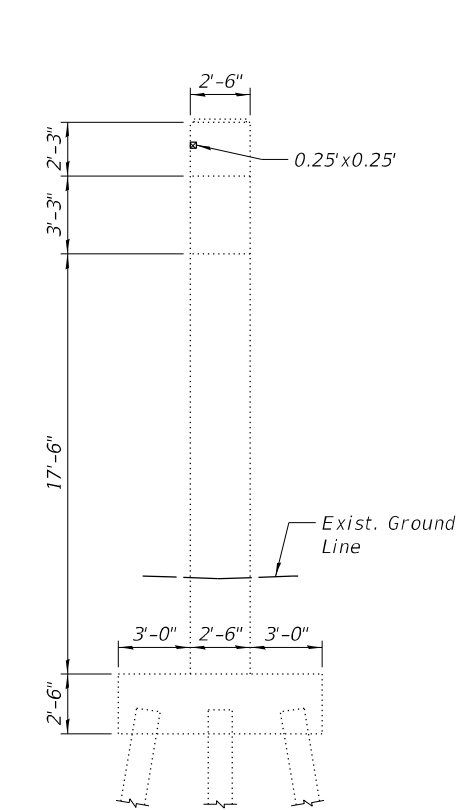
 Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)

BILL OF MATERIAL

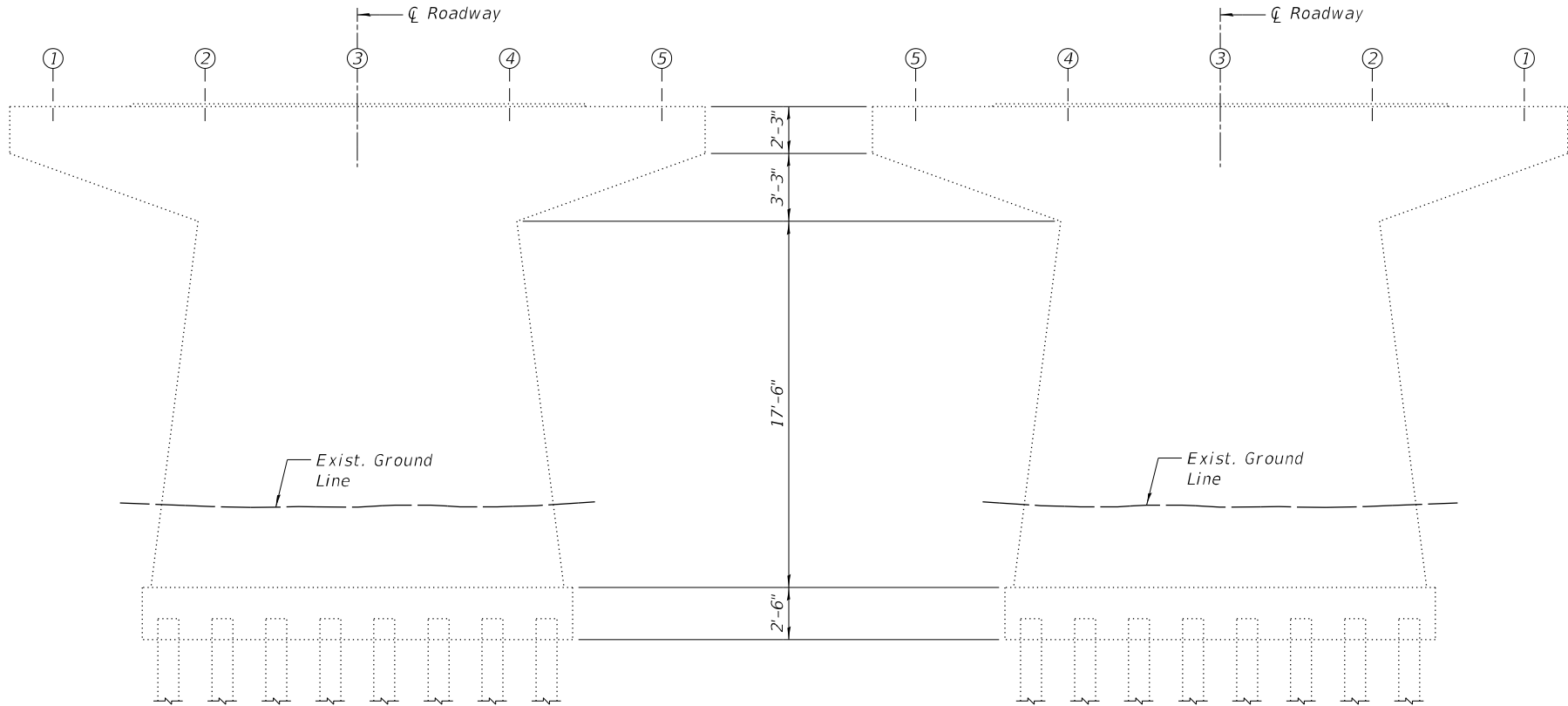
Item	Unit	Total
Concrete Sealer	Sq. Ft.	801
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	118

NOTES:

- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the top of the cap.

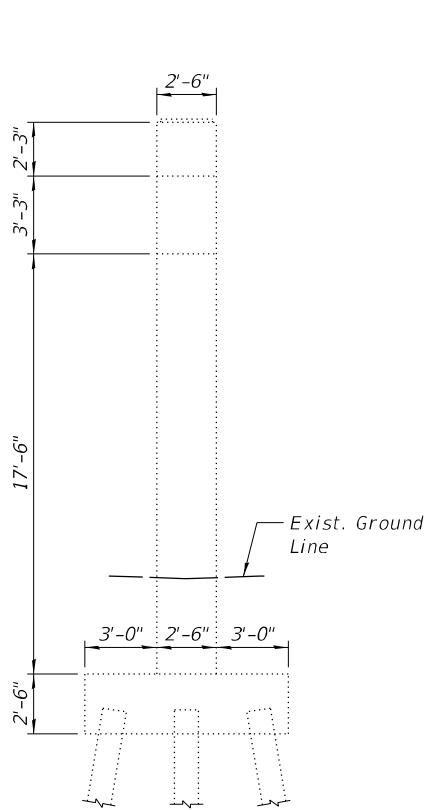


PIER NO. 2 NORTH END VIEW
(Looking South)



PIER NO. 2 WEST ELEVATION
(Looking East)

PIER NO. 2 EAST ELEVATION
(Looking West)



PIER NO. 2 SOUTH END VIEW
(Looking North)

LEGEND

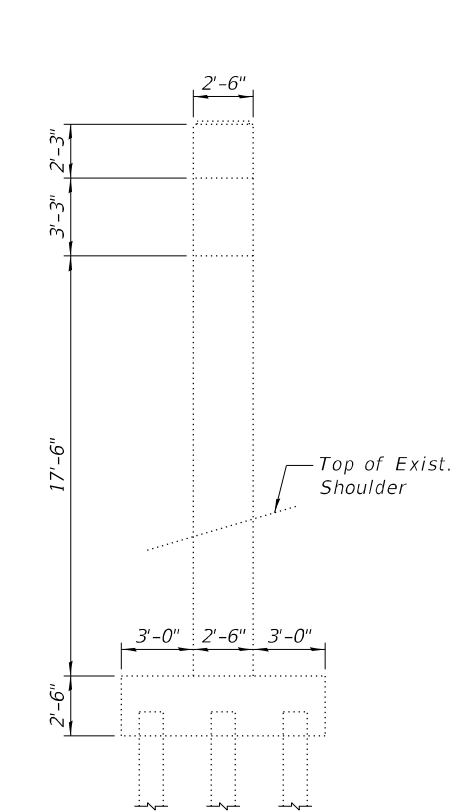
 Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)

BILL OF MATERIAL

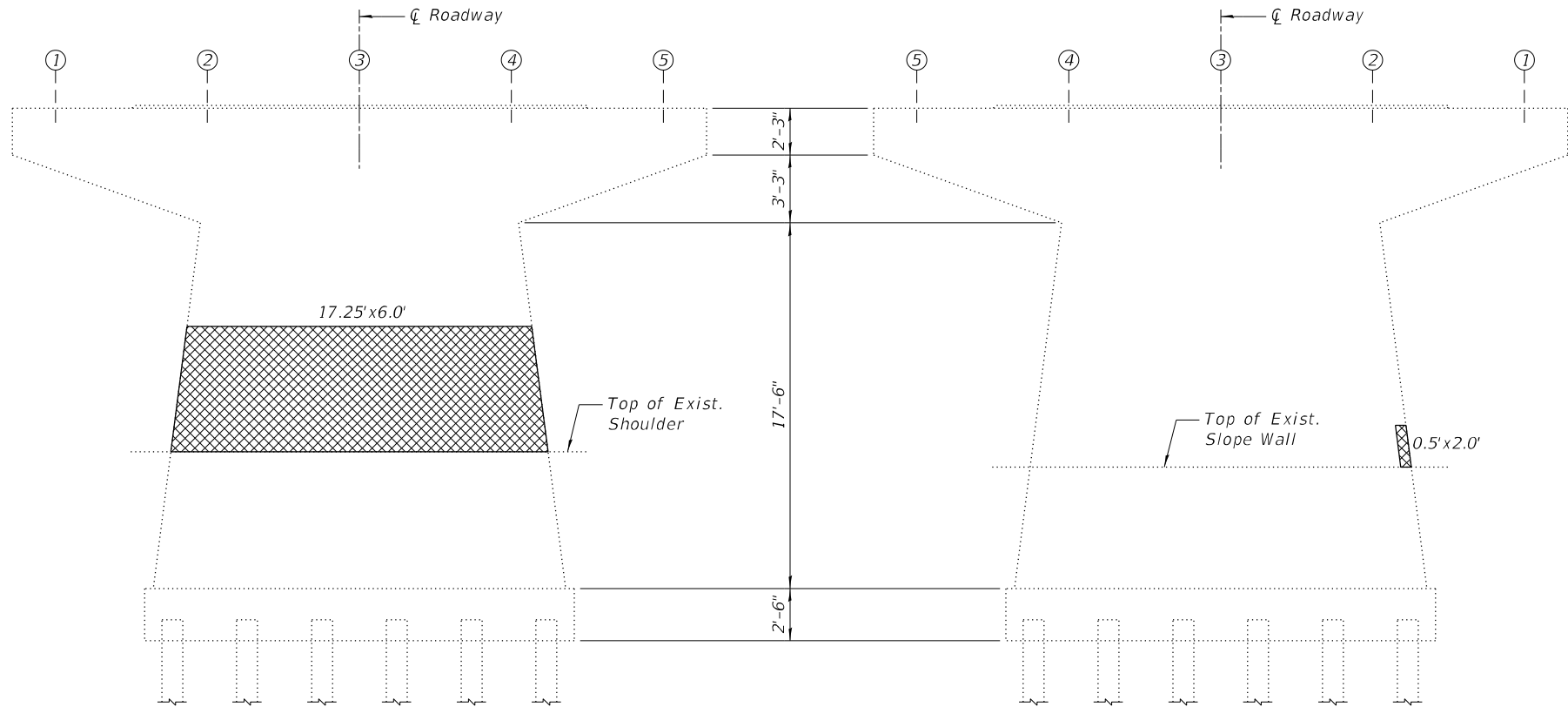
Item	Unit	Total
Concrete Sealer	Sq. Ft.	897
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	1

NOTES:

- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the top of the cap.

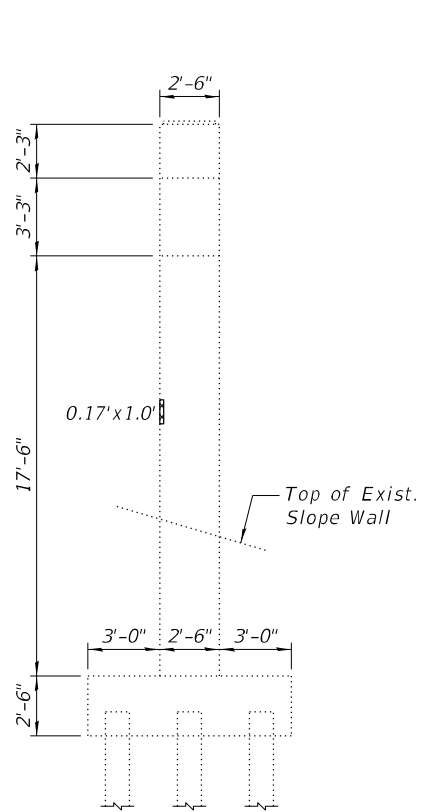


PIER NO. 3 NORTH END VIEW
(Looking South)



PIER NO. 3 WEST ELEVATION
(Looking East)

PIER NO. 3 EAST ELEVATION
(Looking West)



PIER NO. 3 SOUTH END VIEW
(Looking North)

LEGEND

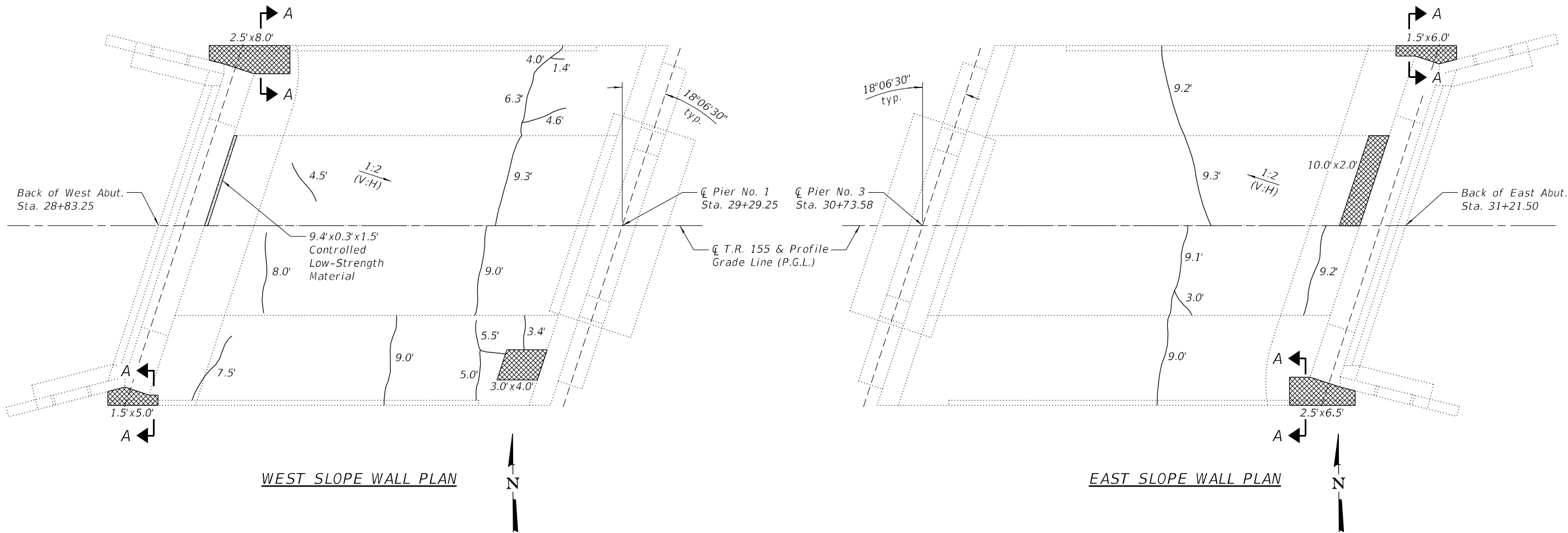
 Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)

BILL OF MATERIAL

Item	Unit	Total
Concrete Sealer	Sq. Ft.	801
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	105

NOTES:

- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the top of the cap.

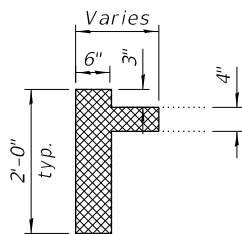
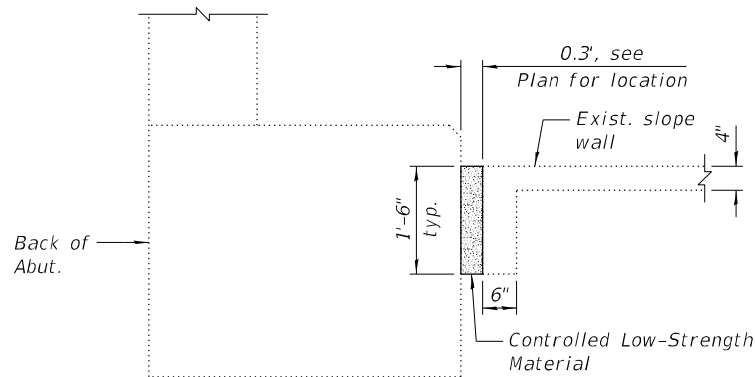


LEGEND

Slope Wall Repair

Controlled Low-Strength Material

L.F. Slope Wall Crack Sealing

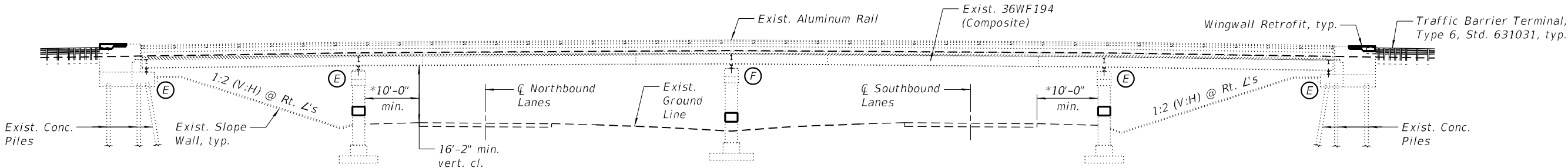


- NOTES:**
- Slope wall shall be reinforced with welded wire fabric. 6 in. x 6 in. - W4.0 x W4.0 weighing 58 lbs. per 100 sq. ft.
 - The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
 - The quantity shown for Controlled Low-Strength Material has been increased beyond the the dimensions indicated in the plan view shown on this sheet in order to provide a minimum of 5 Cu. Yd. for the purpose of establishing a unit price.
 - The quantities shown for Slope Wall Crack Sealing have been increased beyond those identified in the Plan view shown on this sheet to account for sealing of open joints.

BILL OF MATERIAL		
Item	Unit	Total
Controlled Low-Strength Material	Cu. Yd.	5.0
Slope Wall Crack Sealing	Foot	190
Slope Wall Repair	Sq. Yd.	10

Existing Structure: Structure No. 038-0129 was constructed in 1967 as Section 38-5HB-3. The superstructure consists of a four-span continuous rolled steel beam with 7" cast-in-place concrete deck. The substructure consists of reinforced concrete spill-thru abutments supported by concrete piles and three column concrete piers on spread footings. The back-to-back of abutments length measures 343'-7" and the out-to-out deck measures 30'-0". The span lengths are 60'-2", 105'-9", 105'-9", and 63'-8". The structure is skewed 50°16'15" right forward. One lane of bi-directional traffic will be maintained utilizing stage construction.

No Salvage.



ELEVATION

(Looking West)

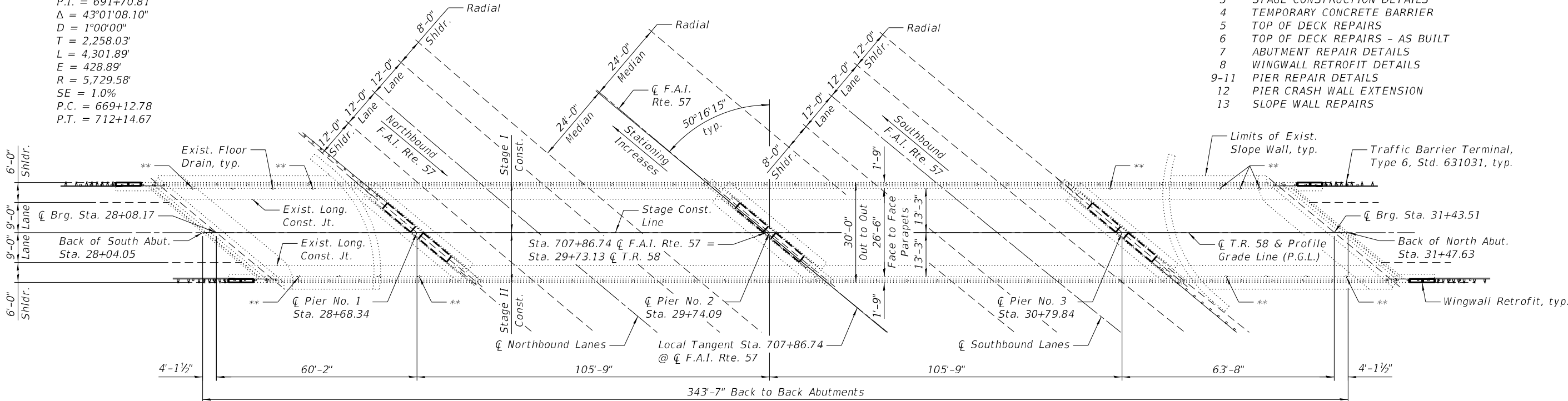
*Dimension @ Rt. L's to Roadway

INDEX OF SHEETS

SHEET NO.	TITLE
1	GENERAL PLAN AND ELEVATION
2	GENERAL DATA AND MISCELLANEOUS DETAILS
3	STAGE CONSTRUCTION DETAILS
4	TEMPORARY CONCRETE BARRIER
5	TOP OF DECK REPAIRS
6	TOP OF DECK REPAIRS - AS BUILT
7	ABUTMENT REPAIR DETAILS
8	WINGWALL RETROFIT DETAILS
9-11	PIER REPAIR DETAILS
12	PIER CRASH WALL EXTENSION
13	SLOPE WALL REPAIRS

I-57 HORIZONTAL CURVE DATA

P.I. = 691+70.81
Δ = 43°01'08.10"
D = 1°00'00"
T = 2,258.03'
L = 4,301.89'
E = 428.89'
R = 5,729.58'
SE = 1.0%
P.C. = 669+12.78
P.T. = 712+14.67



PLAN

**Plug Exist. Deck Drains

SCOPE OF WORK

- 1.) Maintain one lane of bi-directional traffic utilizing stage construction.
- 2.) Crack sealing and concrete repair of bridge deck.
- 3.) Closure of deck drains.
- 4.) Remove existing joint seal and install replacement silicone joint sealer between bridge deck and abutment stem wall.
- 5.) Retrofit the existing wingwalls for upgraded approach and departure guardrails.
- 6.) Repair existing abutments and piers.
- 7.) Retrofit the existing pier crash walls.
- 8.) Repair existing slope wall.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications
for Highway Bridges

EXISTING DESIGN STRESSES

FIELD UNITS (1967):

f'c = 3,500 psi
fy = 40,000 psi (Reinforcement)
fy = 36,000 psi (Structural Steel)

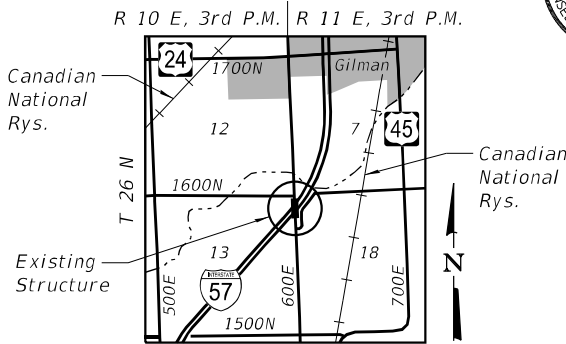
PROPOSED DESIGN STRESSES

FIELD UNITS:

f'c = 3,500 psi
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)

LOADING HS15-44

No future wearing surface allowed.



LOCATION SKETCH



WILLIAM MARDAUSS, P.E., S.E. DATE: 03/20/2026
LICENSE EXPIRES 11/30/2026

T.R. 58 (CR 600E) OVER F.A.I. RTE. 57

F.A.I. RTE. 57 - SEC. *

IROQUOIS COUNTY

STATION 29+73.13

STRUCTURE NO. 038-0129



DESIGNED - CEL	REVISED
CHECKED - VPT	REVISED
DRAWN - DJM	REVISED
CHECKED - VPT	REVISED
DATE - 03/20/2026	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 038-0129

SHEET NO. 1 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR.D,CR	IROQUOIS	437	333
				CONTRACT NO. 66M80

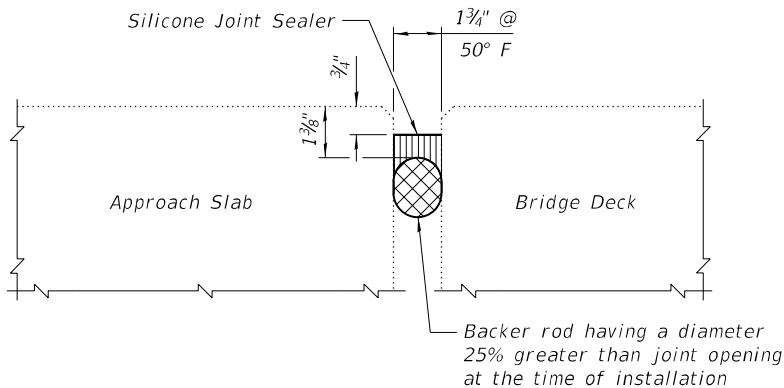
ILLINOIS

TOTAL BILL OF MATERIAL

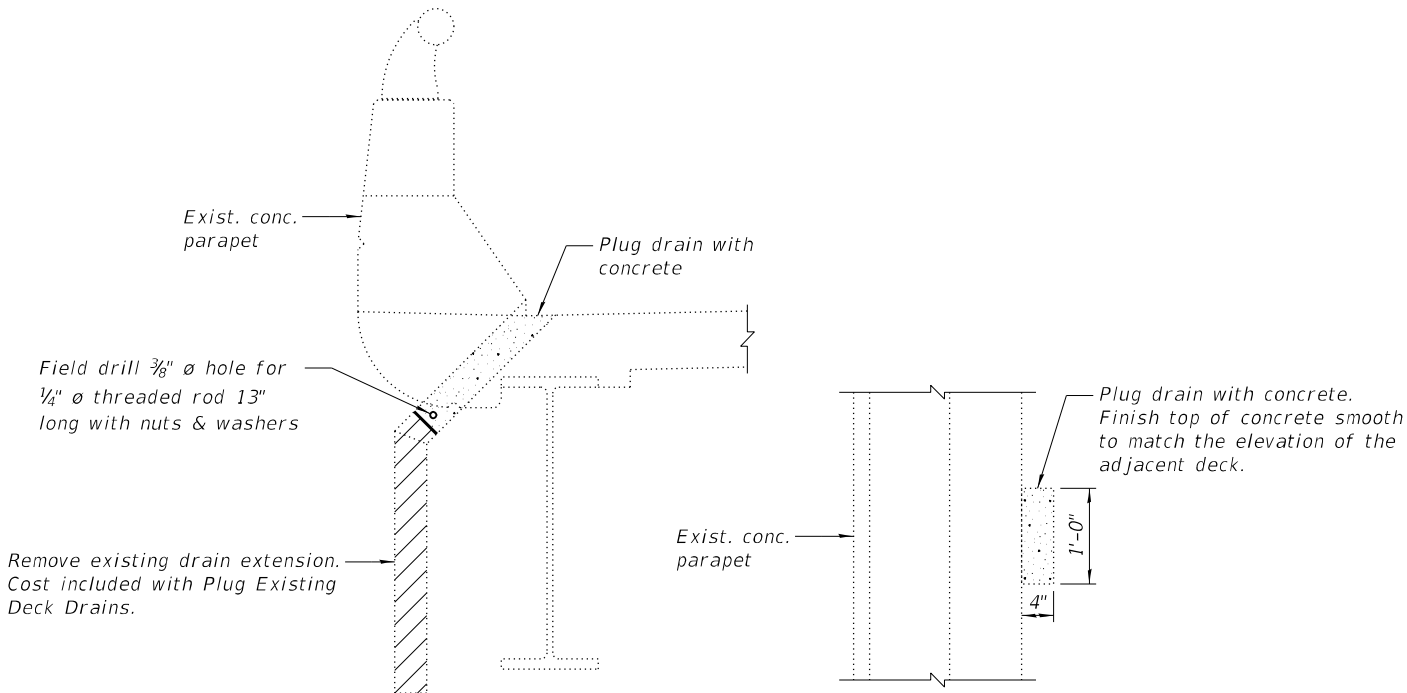
ITEM	UNIT	TOTAL
Concrete Structures	Cu. Yd.	12.5
Concrete Superstructure	Cu. Yd.	1.2
Protective Coat	Sq. Yd.	11
Reinforcement Bars, Epoxy Coated	Pound	1,720
Concrete Sealer	Sq. Ft.	15,619
Controlled Low-Strength Material	Cu. Yd.	1.9
Bridge Deck Concrete Crack Sealer	Foot	91
Slope Wall Crack Sealing	Foot	185
Slope Wall Repair	Sq. Yd.	45
Plug Existing Deck Drains	Each	10
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	48
Silicone Joint Sealer, 1.75"	Foot	91.5

GENERAL NOTES:

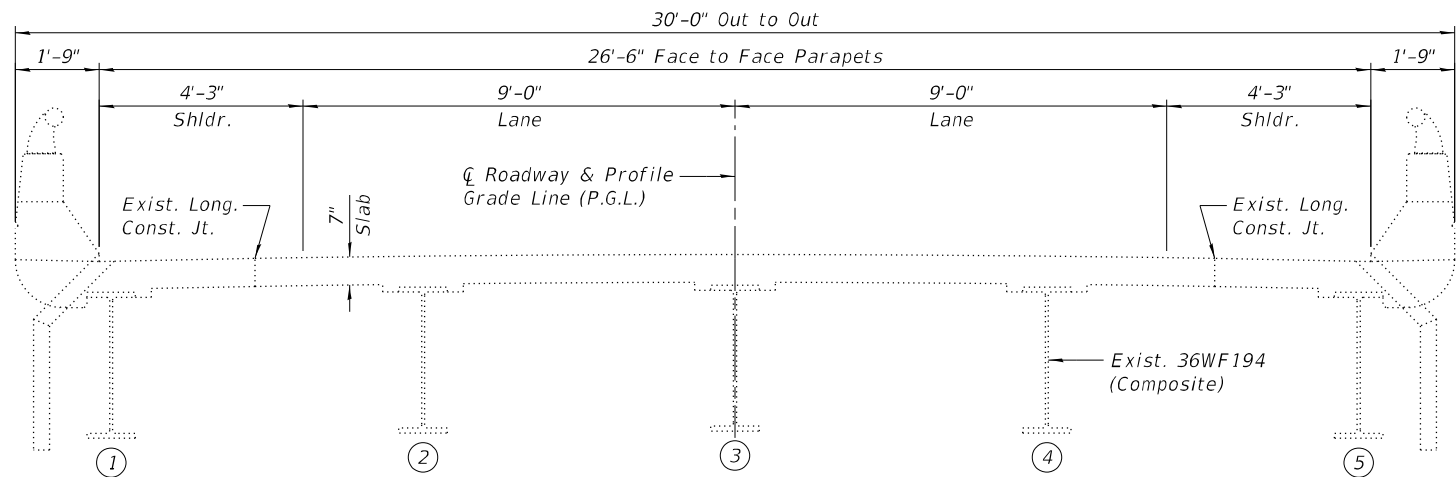
- 1.) Reinforcement bars designated (E) shall be epoxy coated.
- 2.) Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 3.) The Engineer shall show actual locations and size of deck repairs on As-built Plans.
- 4.) Protective Coat shall only be applied to new concrete areas including the top and vertical faces of the wingwall retrofit.
- 5.) Concrete Sealer shall be applied according to Section 587 of the Standard Specification to the existing top and inside vertical faces of the parapets, end posts, and wings; top surface of the bridge deck; all exposed faces of the abutments and wingwalls; and to all exposed faces of pier located below the bearings.
- 6.) The Contractor may request copies of existing construction plans that are currently on file with the Department. The request shall be in writing with the understanding that any reproduction cost will be at the Contractor's expense at no additional cost to the Department.
- 7.) The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with the pay item for which the work is required.



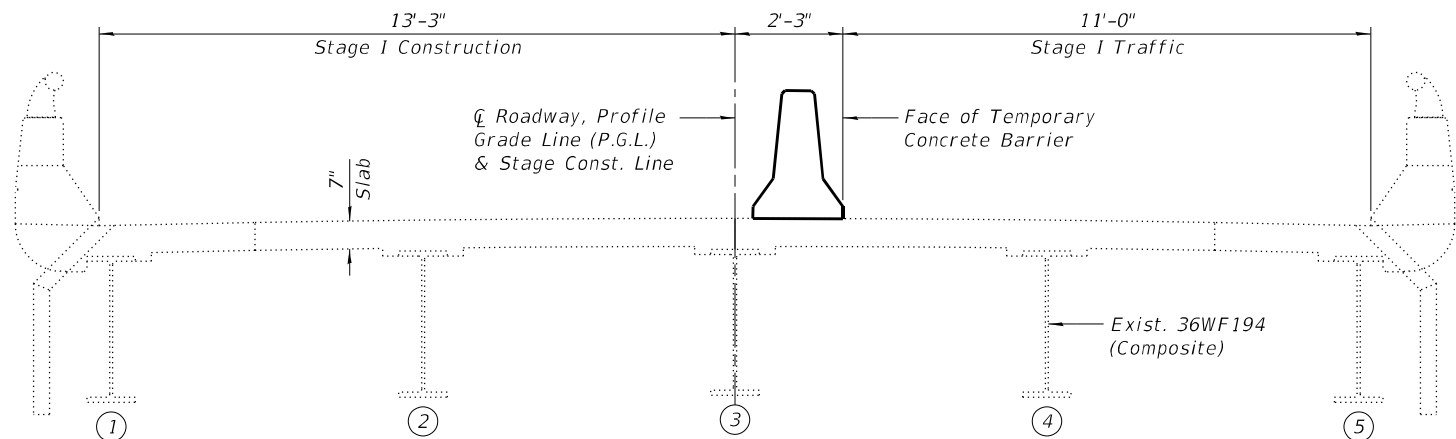
SILICONE JOINT SEALER DETAIL
AT ABUTMENT STEM WALL
Remove existing joint seal and install replacement silicone joint sealer at approach slabs.



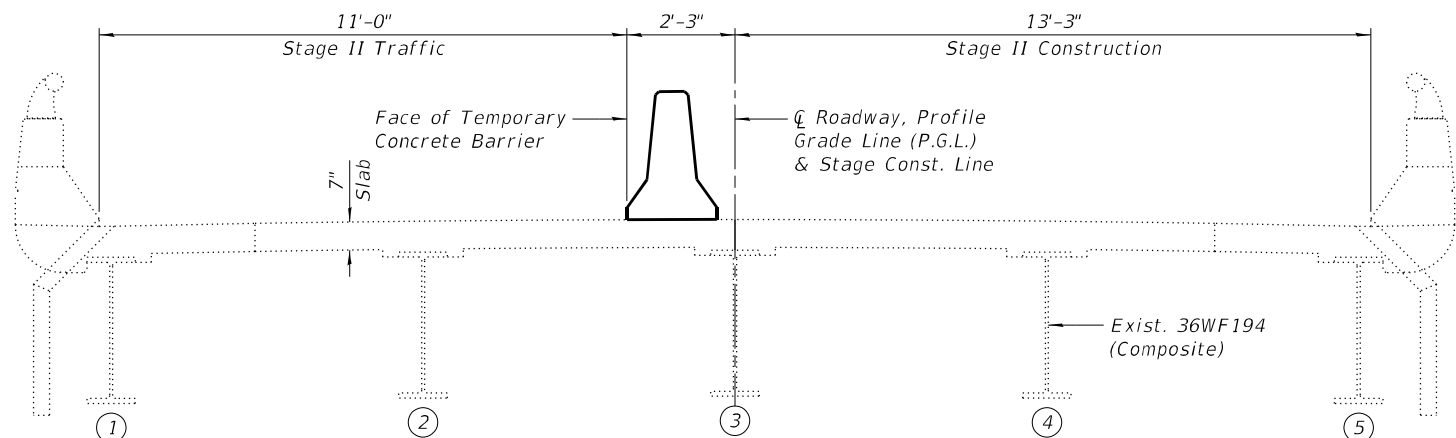
SECTION
PLAN
DECK DRAIN CLOSURE DETAILS
See Sheet 1 of 13 for locations.



EXISTING CROSS SECTION
(Looking North)

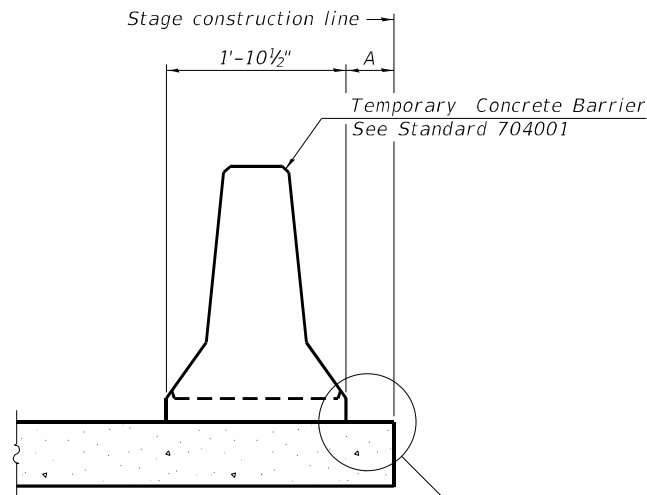


STAGE I CONSTRUCTION
(Looking North)



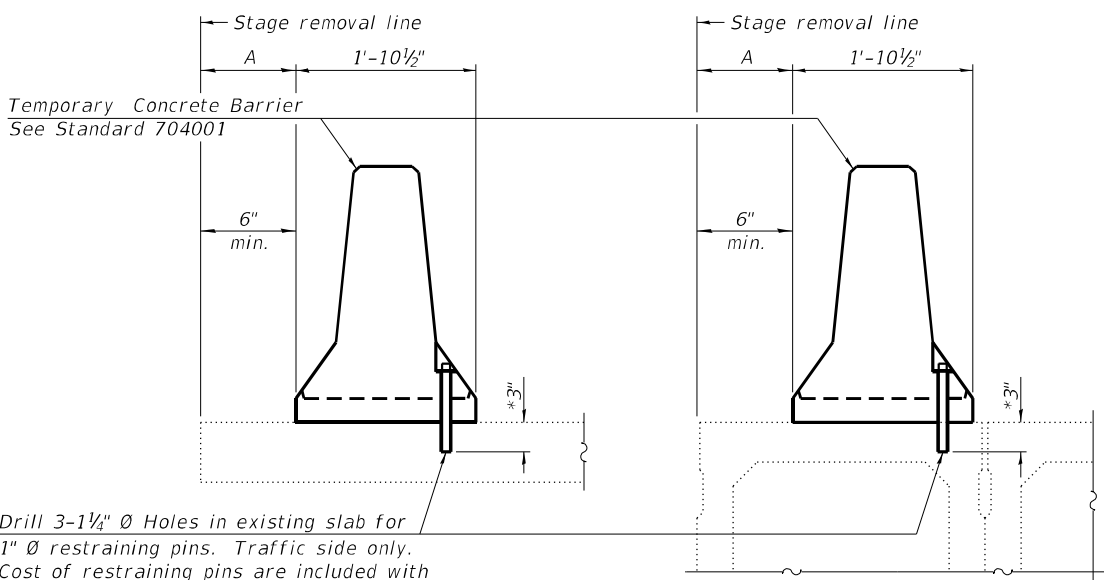
STAGE II CONSTRUCTION
(Looking North)

NOTE:
See Sheet 4 of 13 for Temporary Concrete Barrier.



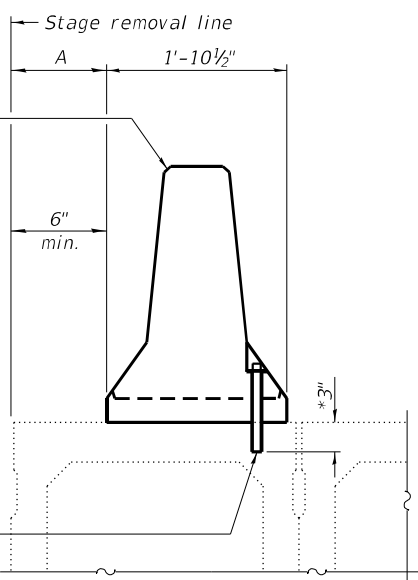
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

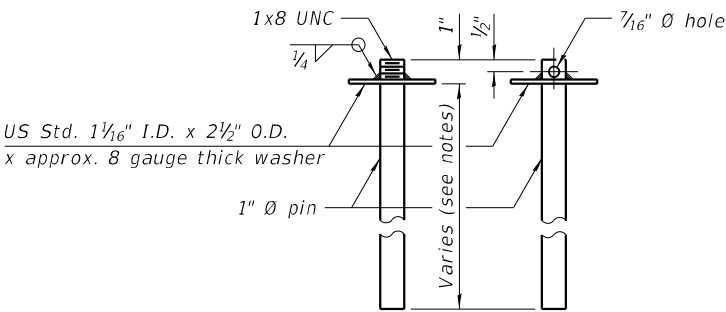
EXISTING SLAB



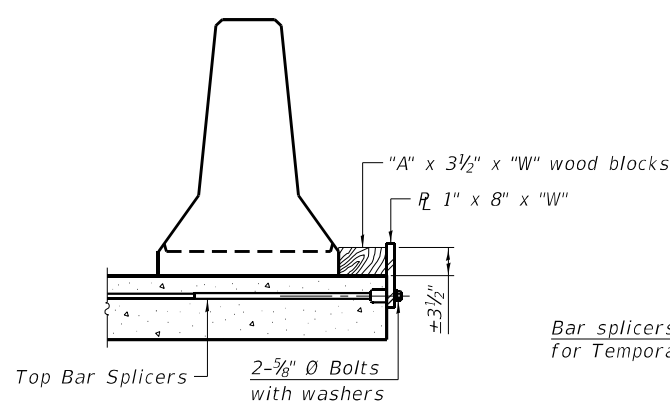
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

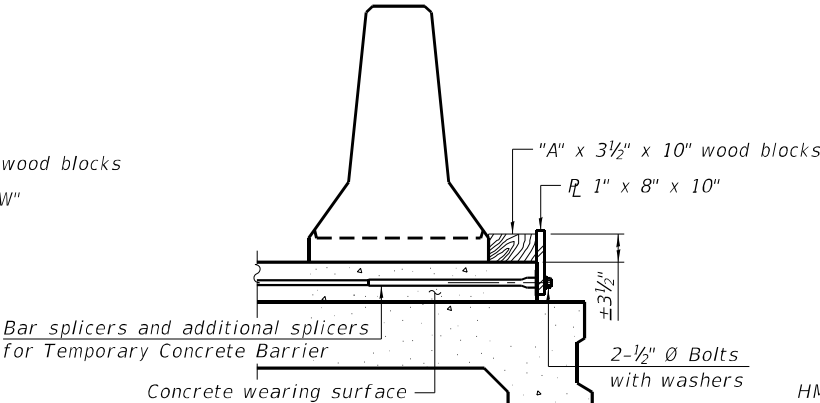
SECTIONS THRU SLAB OR DECK BEAM



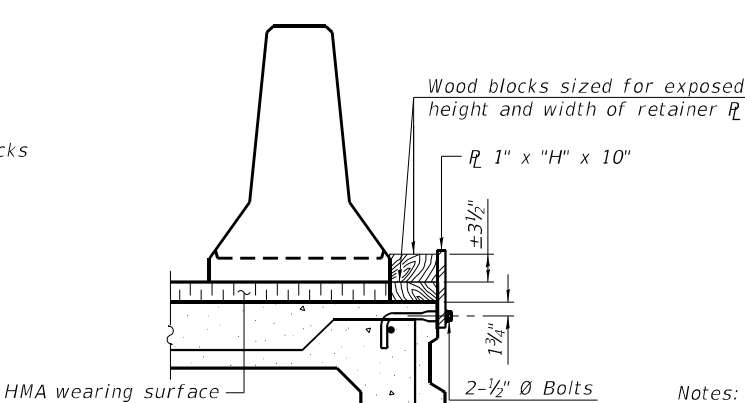
RESTRAINING PIN



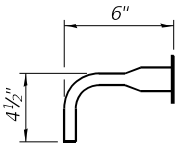
DETAIL I



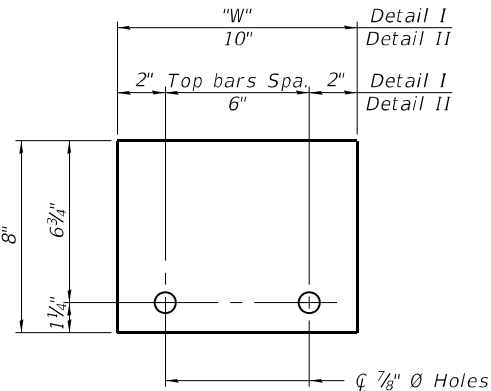
DETAIL II



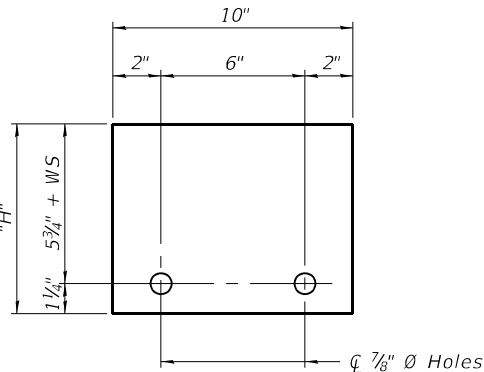
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER PL 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER PL 1" x "H" x 10"
(Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023

Farnsworth
GROUP
2709 McGRAW DRIVE
BLOOMINGTON, ILLINOIS 61704
(309) 663-8435 / info@fw.com

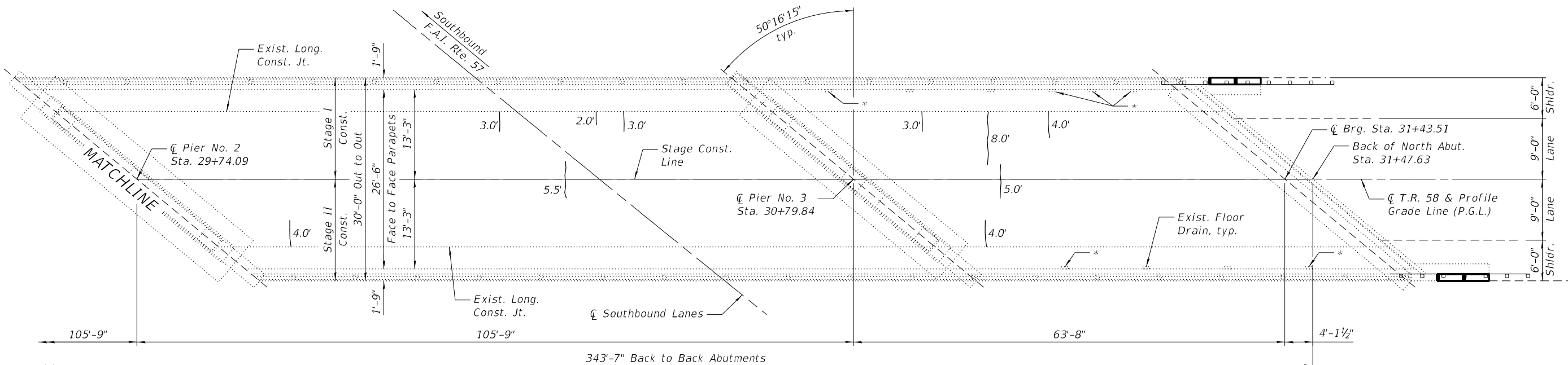
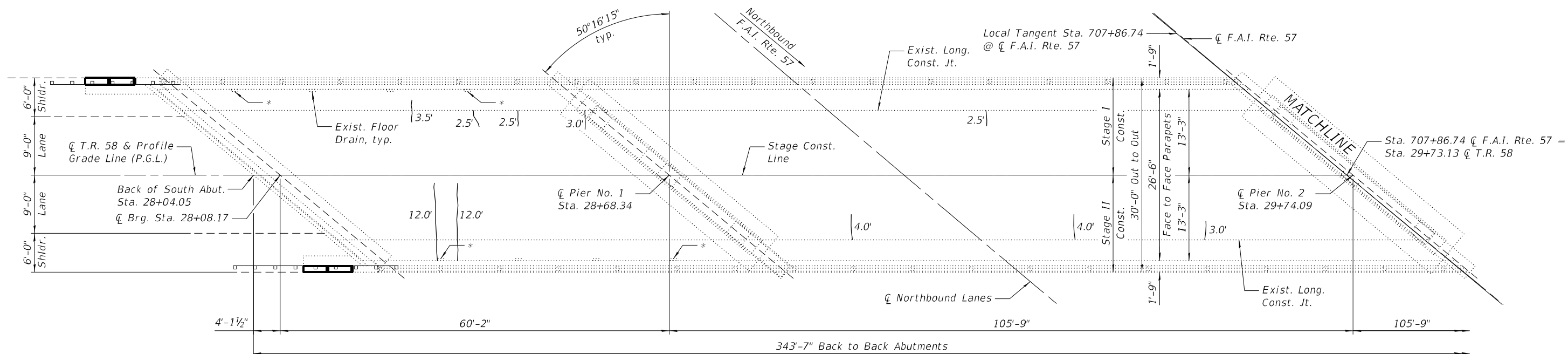
DESIGNED - CEL	REVISED
CHECKED - VPT	REVISED
DRAWN - DJM	REVISED
CHECKED - VPT	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

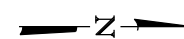
TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 038-0129

SHEET NO. 4 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	336
		CONTRACT NO. 66M80		
ILLINOIS				



PLAN



LEGEND

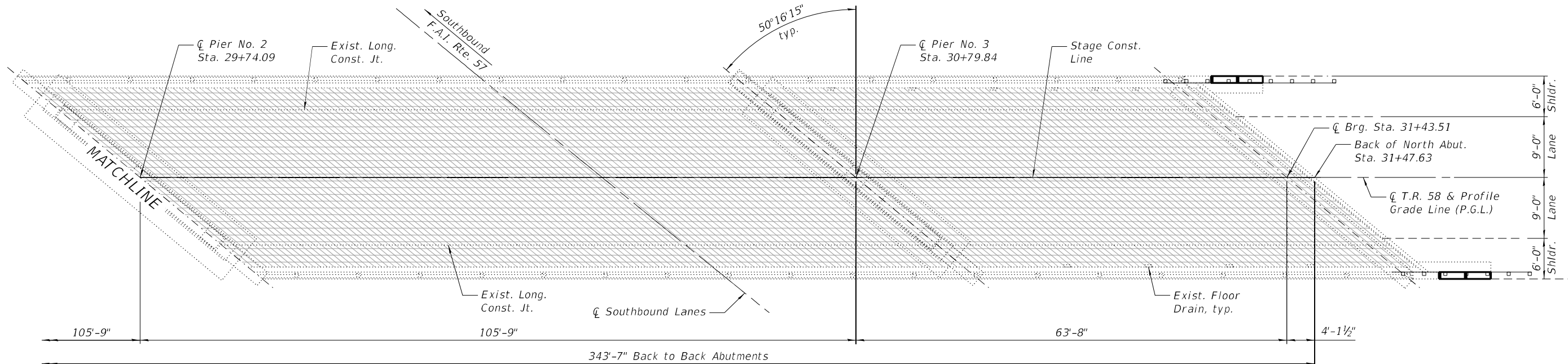
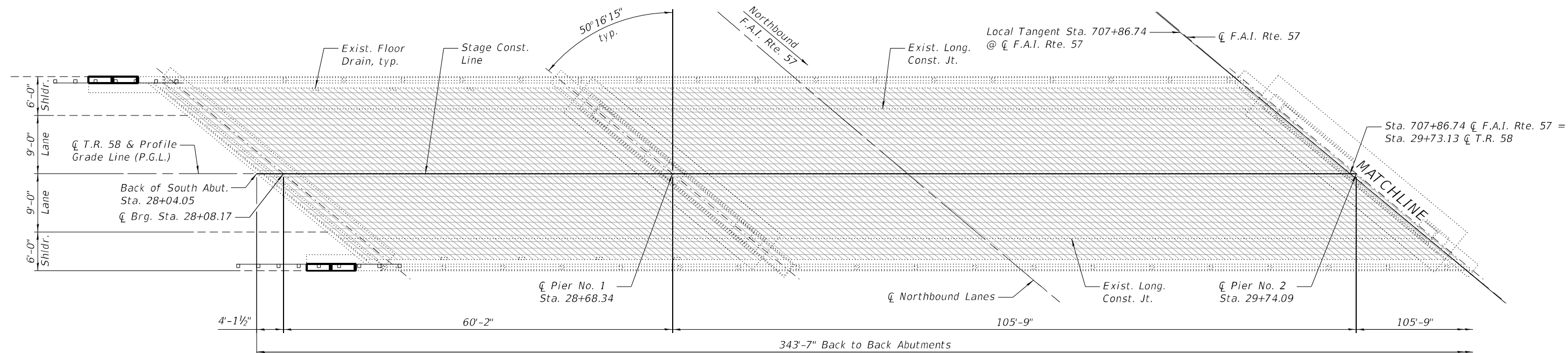
L.F. Bridge Deck Concrete Crack Sealer

BILL OF MATERIAL

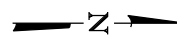
Item	Unit	Total
Bridge Deck Concrete Crack Sealer	Foot	91

NOTES:

- The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions, and documented by the Engineer on the As Built plan sheet.
- *Plug Existing Deck Drains. See Deck Drain Closure Details on Sheet 2 of 13.

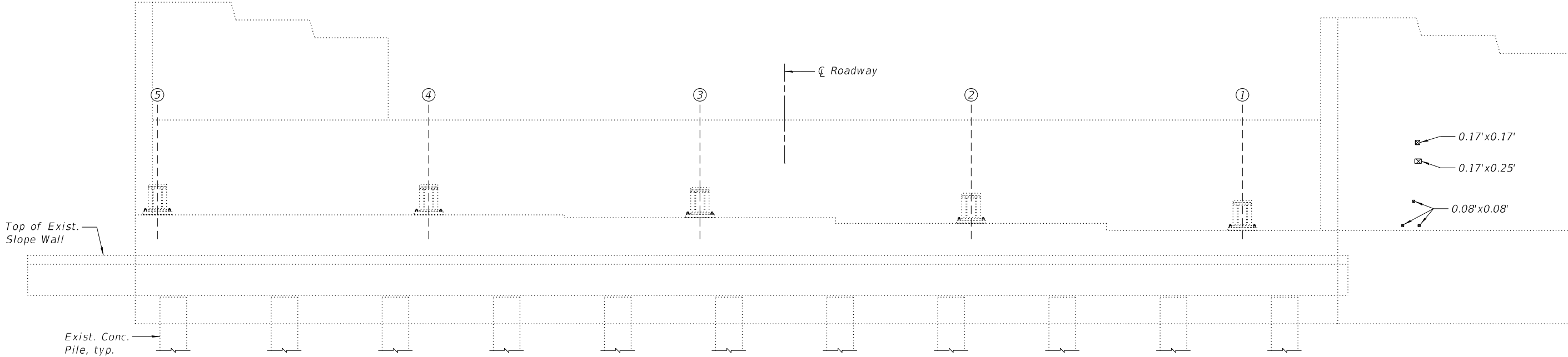


PLAN

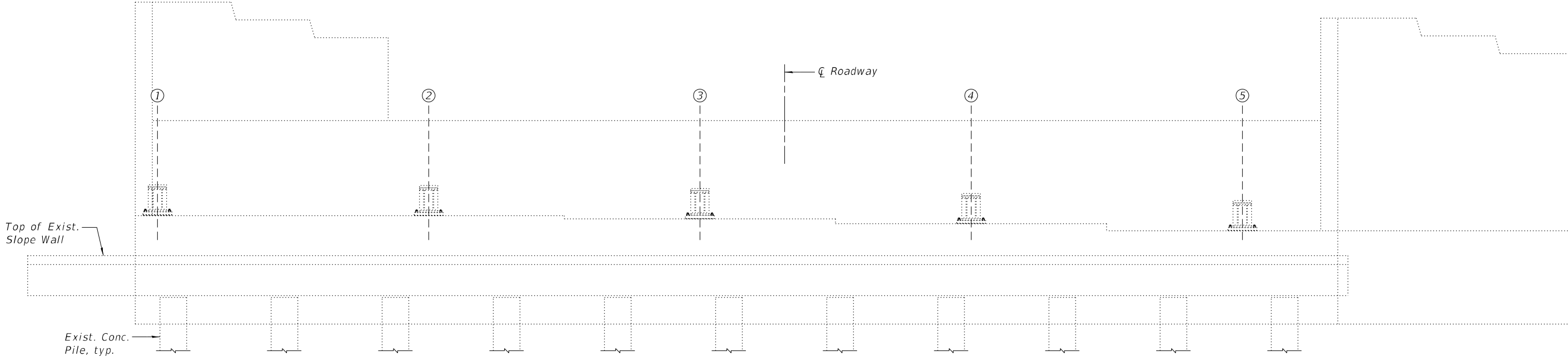


NOTES:

- 1.) The Engineer shall record the As Built deck slab repair areas on this sheet.
- 2.) The reference grid was drawn in 1' transverse and longitudinal increments.



SOUTH ABUTMENT ELEVATION
(Looking South)



NORTH ABUTMENT ELEVATION
(Looking North)

LEGEND



Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)

BILL OF MATERIAL

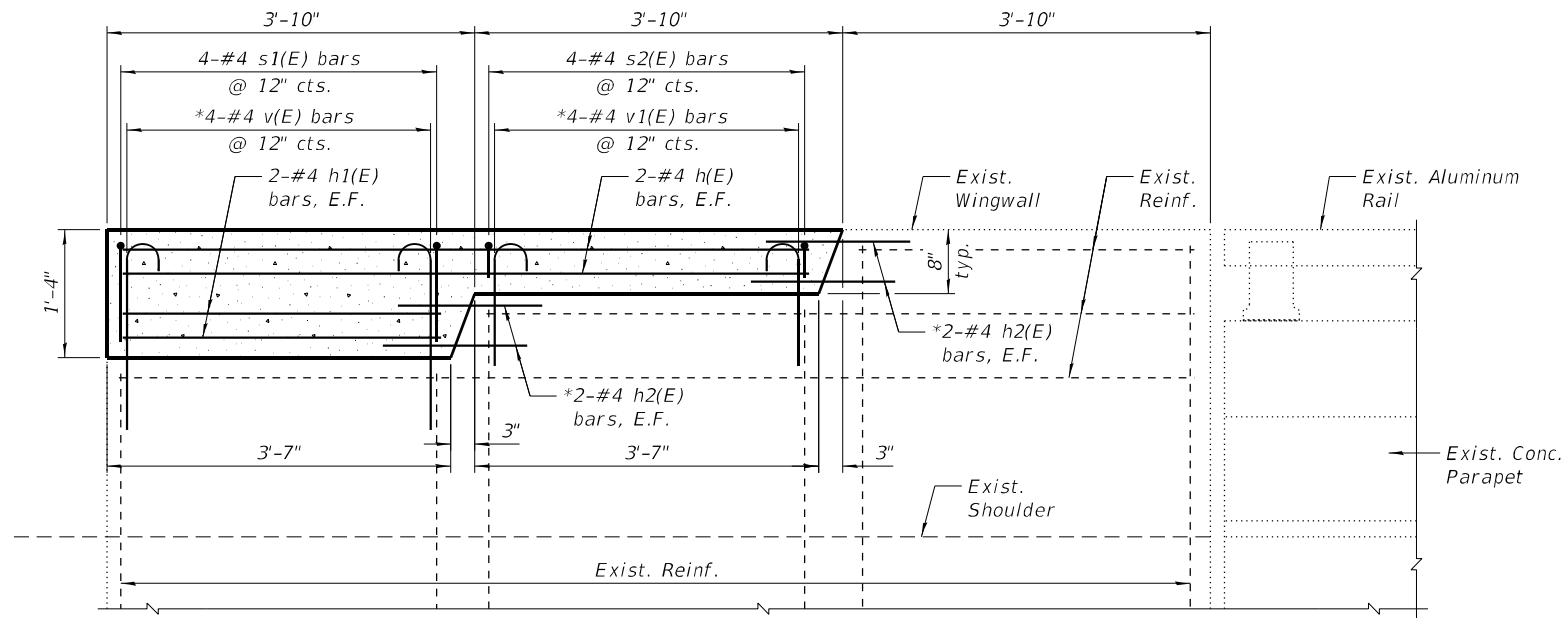
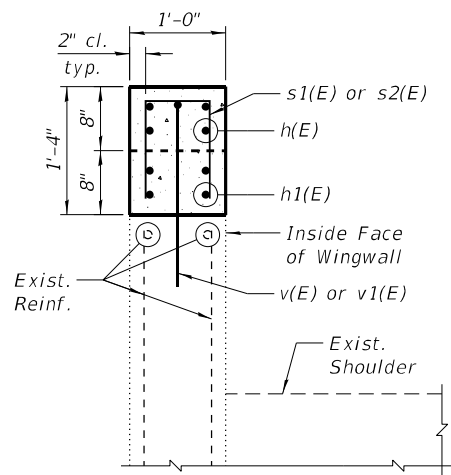
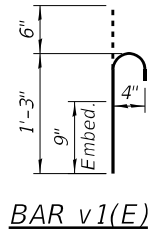
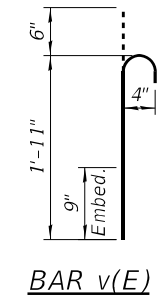
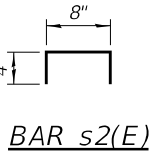
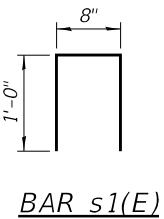
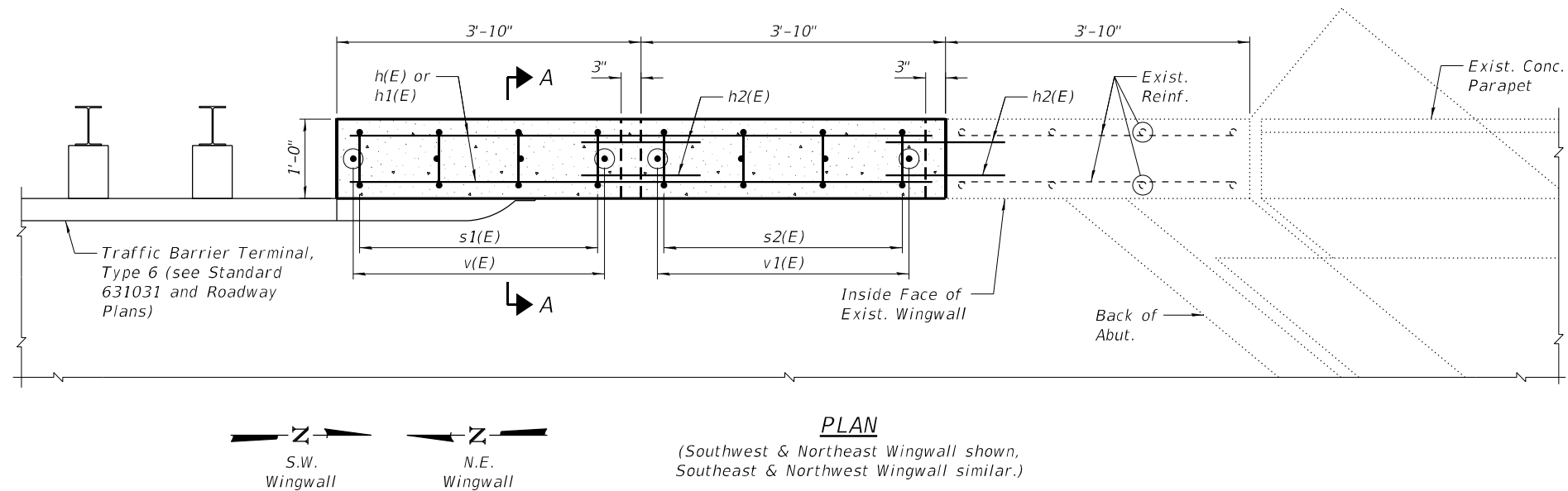
Item	Unit	Total
Concrete Sealer	Sq. Ft.	681
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	1

NOTES:

- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of the abutments and wingwalls, after installation of proposed wingwall retrofit.

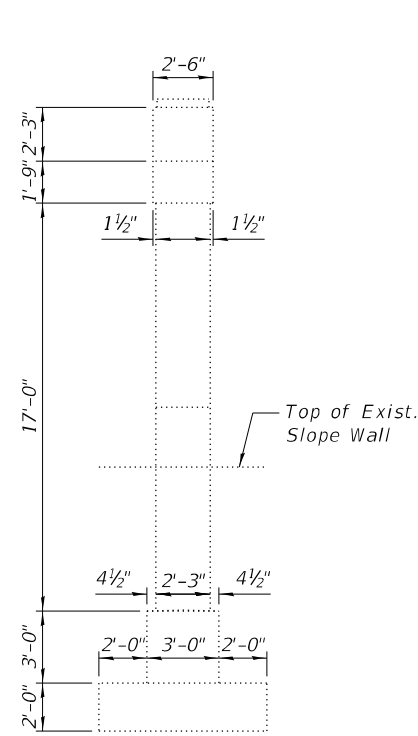
FOUR WINGWALLS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	16	#4	7'-1"	
h1(E)	16	#4	3'-3"	
h2(E)	32	#4	1'-6"	
s1(E)	16	#4	2'-8"	
s2(E)	16	#4	1'-4"	
v(E)	16	#4	2'-5"	
v1(E)	16	#4	1'-9"	
Item			Unit	Quantity
Concrete Superstructure			Cu. Yd.	1.2
Reinforcement Bars, Epoxy Coated			Pound	230
Protective Coat			Sq. Yd.	11
Concrete Sealer			Sq. Ft.	362

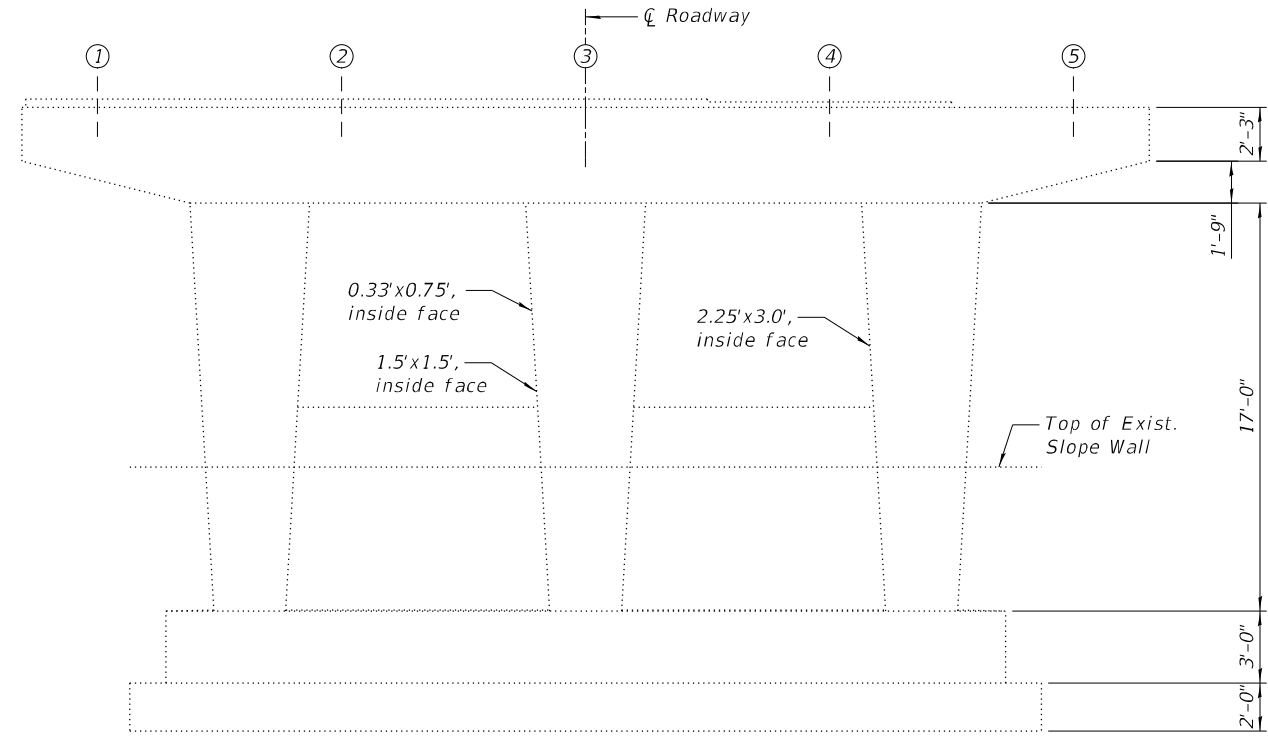


NOTES:

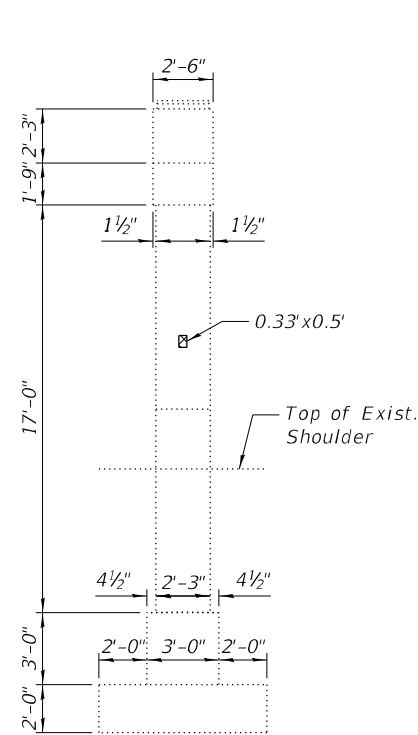
- 1.) *Epoxy grout h2(E), v(E), and v1(E) bars in 9" deep (min.) drilled holes, $\frac{3}{8}$ " ϕ , according to Section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.
- 2.) E.F. denotes Each Face.
- 3.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed, previously existing faces of the wingwalls after installation of proposed wingwall retrofit.



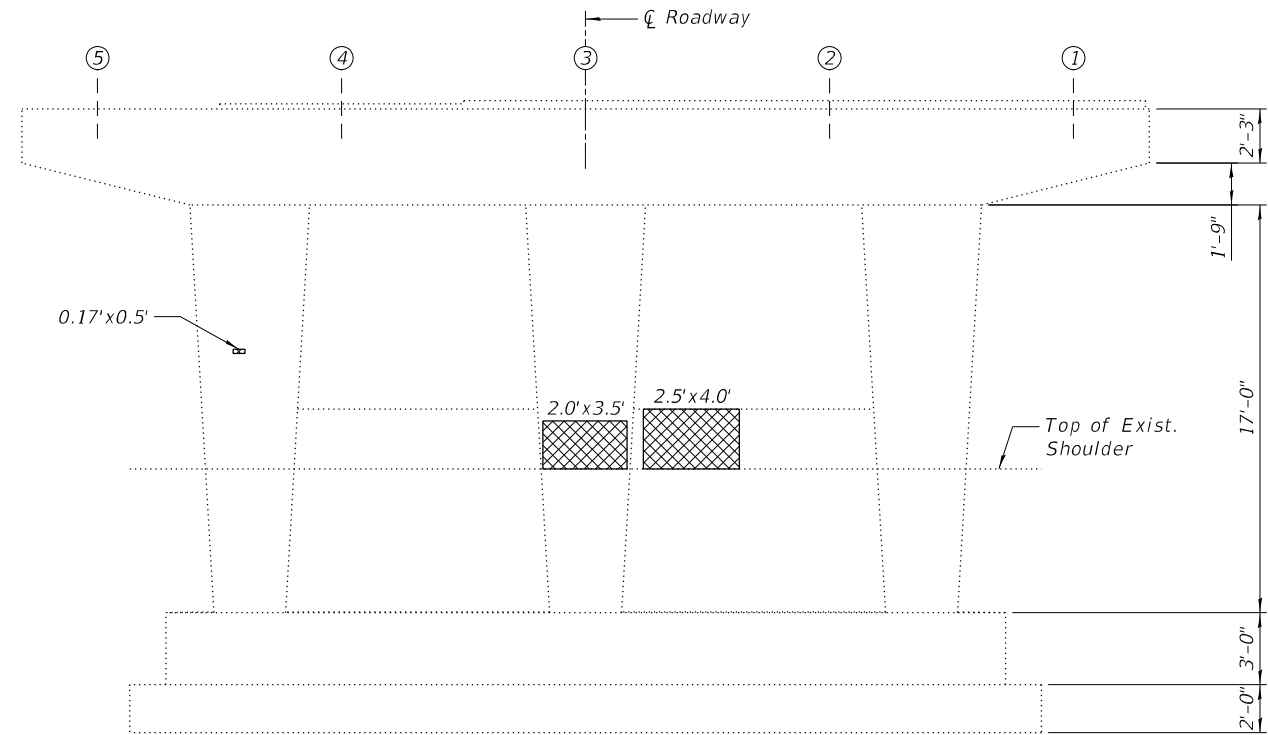
PIER NO. 1 WEST END VIEW
(Looking East)



PIER NO. 1 SOUTH ELEVATION
(Looking North)



PIER NO. 1 EAST END VIEW
(Looking West)



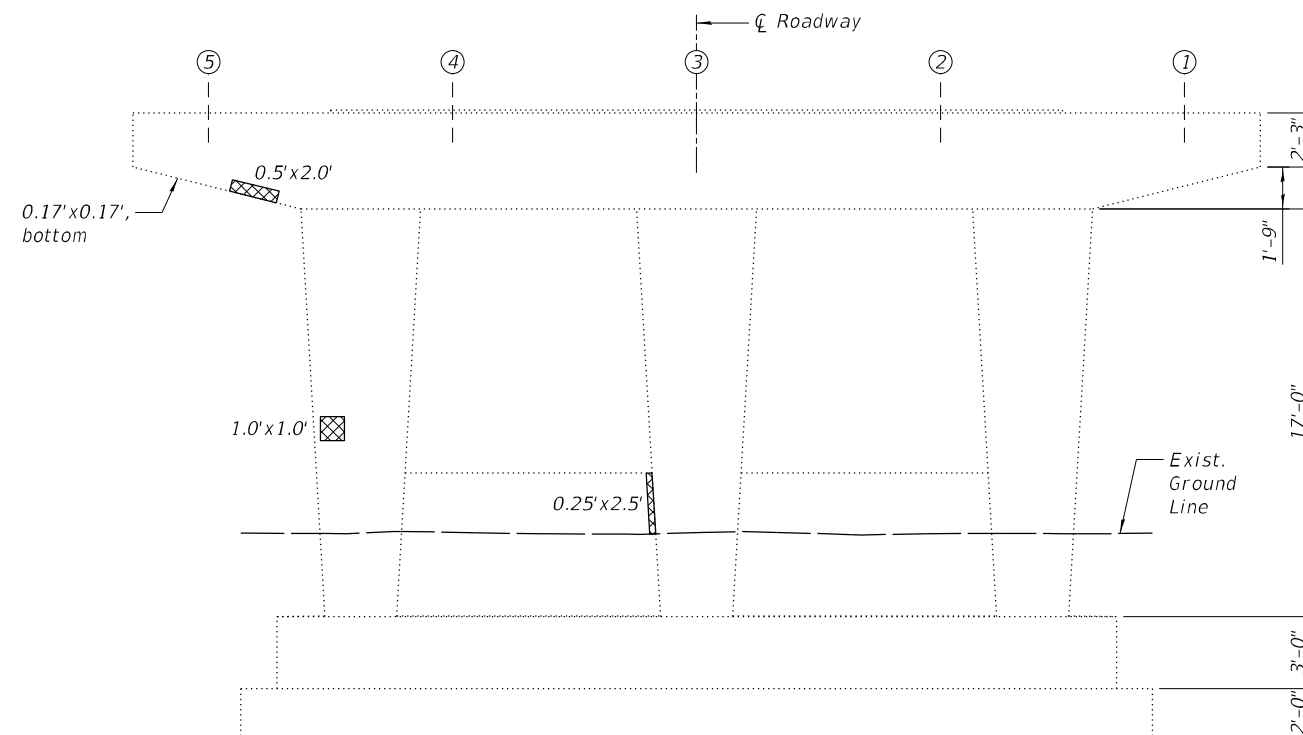
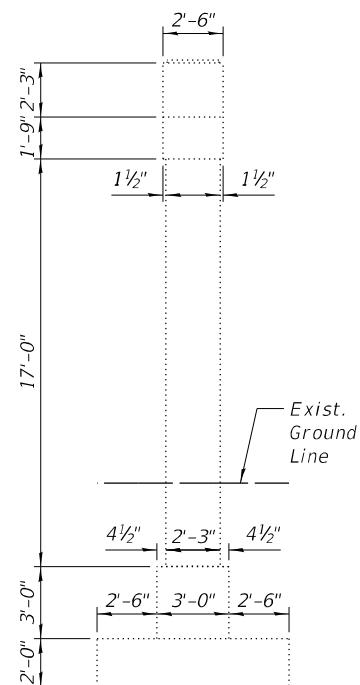
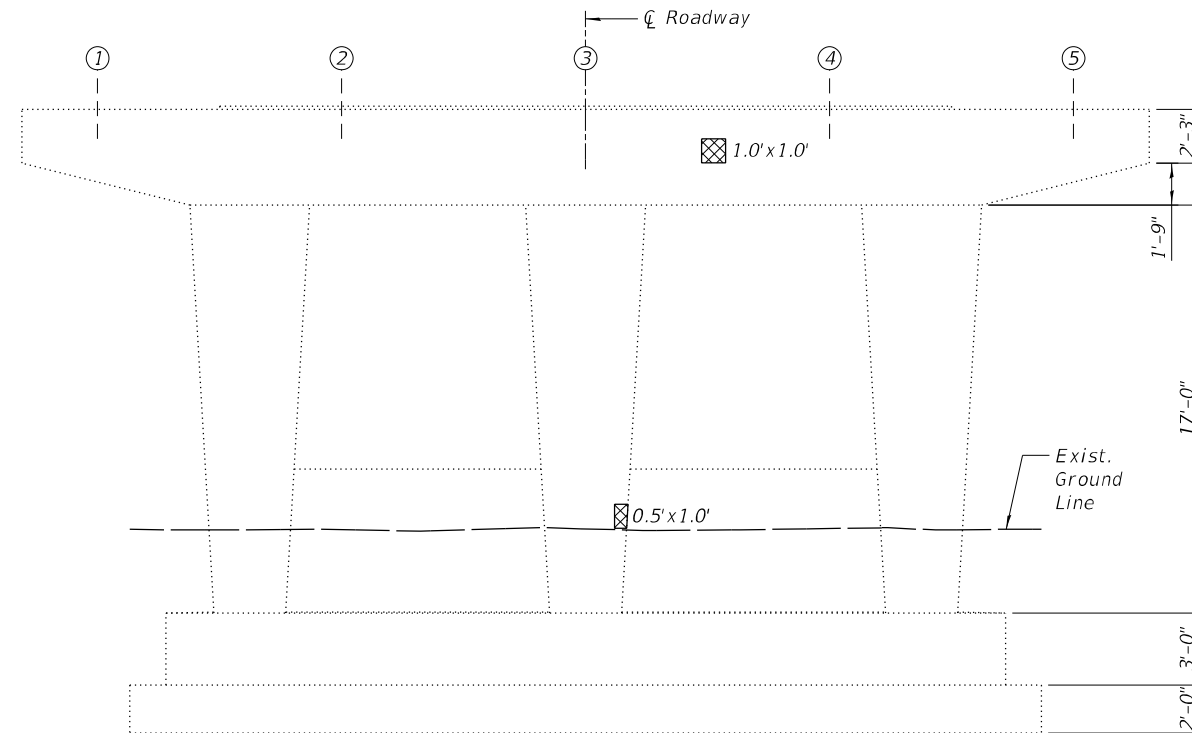
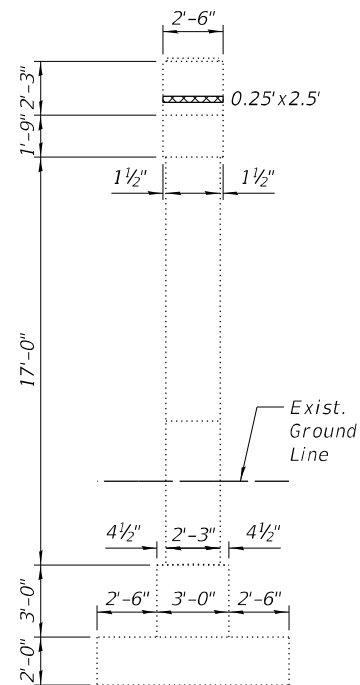
PIER NO. 1 NORTH ELEVATION
(Looking South)

LEGEND

 Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)

BILL OF MATERIAL		
Item	Unit	Total
Concrete Sealer	Sq. Ft.	866
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	27

- NOTES:**
- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
 - 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the bearings, after installation of proposed crash wall extensions.



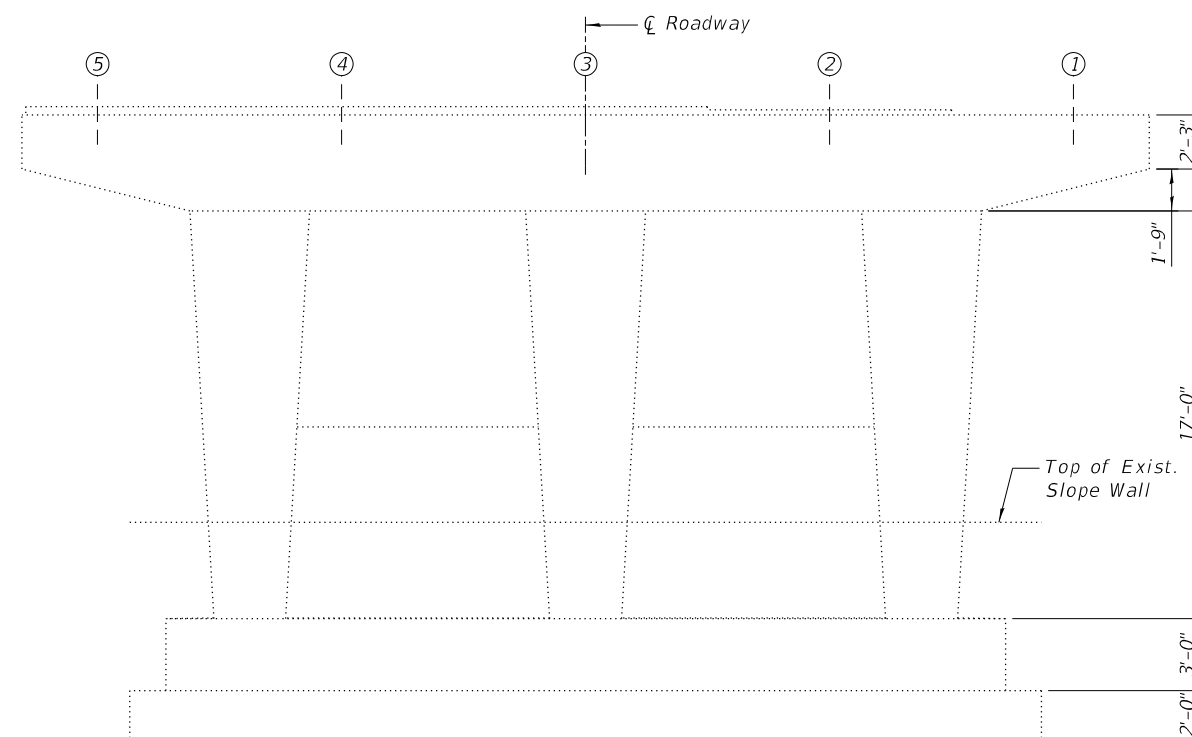
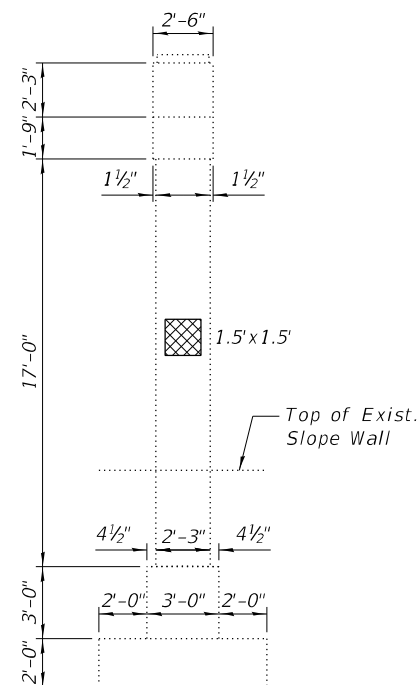
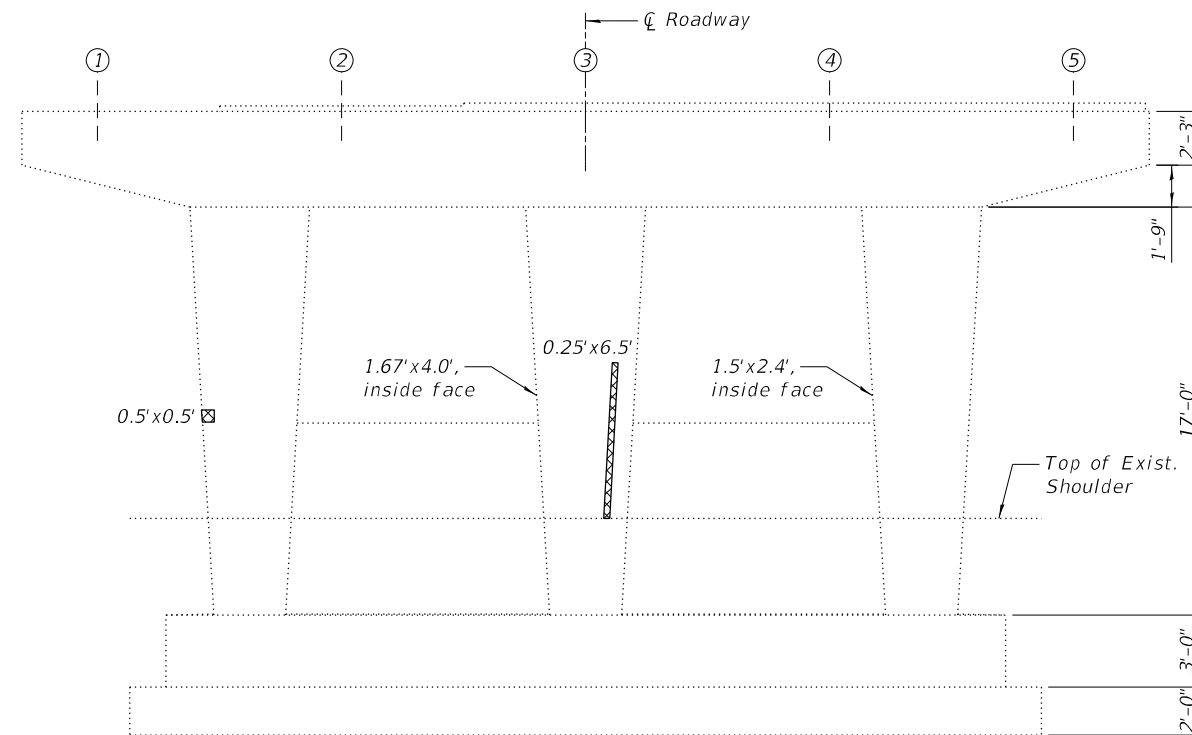
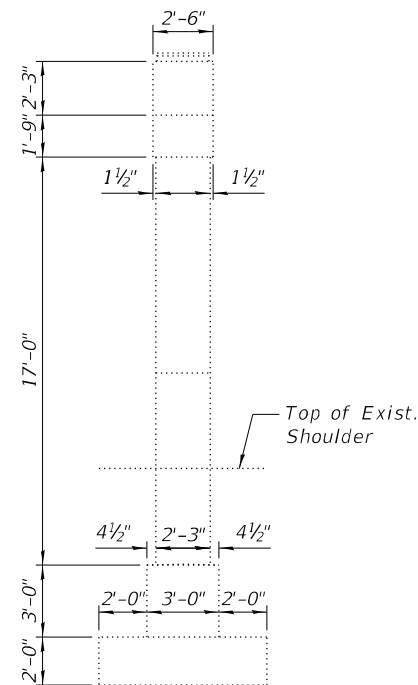
LEGEND

BILL OF MATERIAL

<i>Item</i>	<i>Unit</i>	<i>Total</i>
<i>Concrete Sealer</i>	<i>Sq. Ft.</i>	<i>935</i>
<i>Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)</i>	<i>Sq. Ft.</i>	<i>5</i>

NOTES:

- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the bearings, after installation of proposed crash wall extensions.



LEGEND



BILL OF MATERIAL

<i>Item</i>	<i>Unit</i>	<i>Total</i>
<i>Concrete Sealer</i>	<i>Sq. Ft.</i>	<i>981</i>
<i>Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)</i>	<i>Sq. Ft.</i>	<i>15</i>

NOTES:

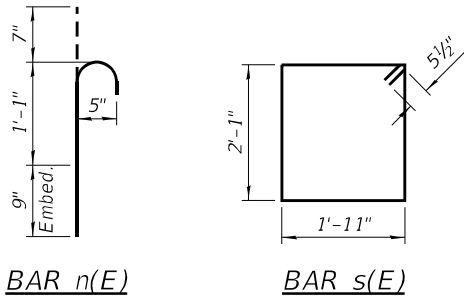
- 1.) The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the bearings, after installation of proposed crash wall extensions.

PIER NO. 1 & NO. 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	28	#5	9'-4"	—
n(E)	136	#5	2'-5"	C
s(E)	40	#5	8'-11"	□
Item		Unit	Quantity	
Concrete Structures		Cu. Yd.	8.2	
Reinforcement Bars, Epoxy Coated		Pound	990	
Concrete Sealer		Sq. Ft.	284	

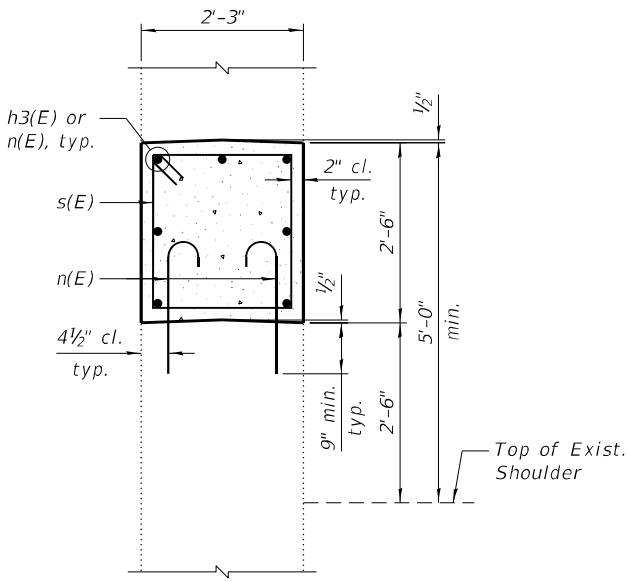
PIER NO. 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4(E)	14	#5	9'-8"	—
n(E)	68	#5	2'-5"	C
s(E)	20	#5	8'-11"	□
Item		Unit	Quantity	
Concrete Structures		Cu. Yd.	4.3	
Reinforcement Bars, Epoxy Coated		Pound	500	
Concrete Sealer		Sq. Ft.	147	

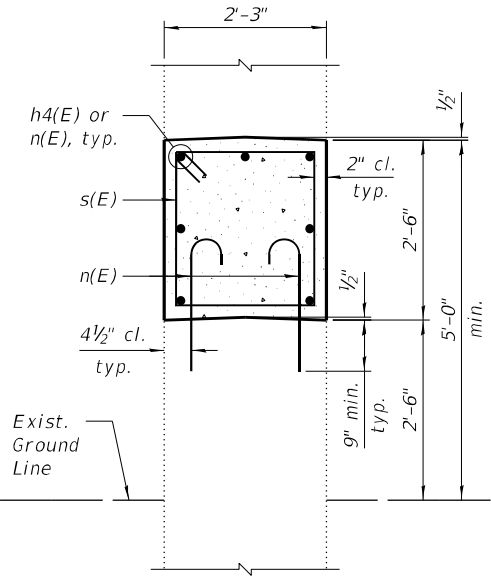


BAR n(E)

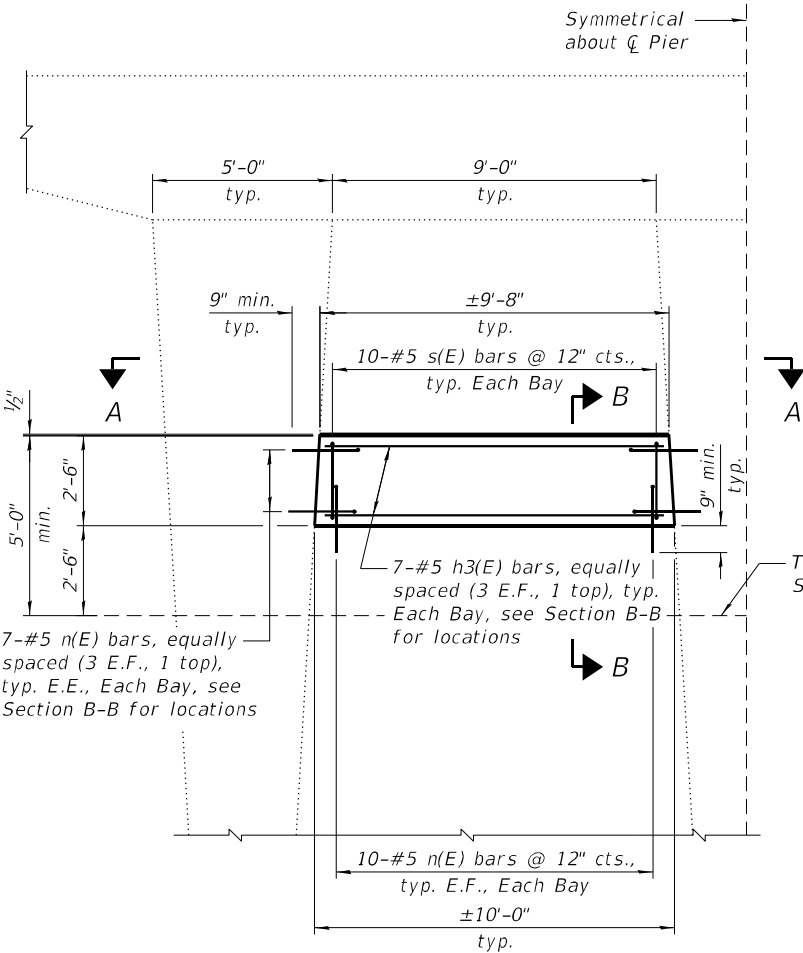
BAR s(E)



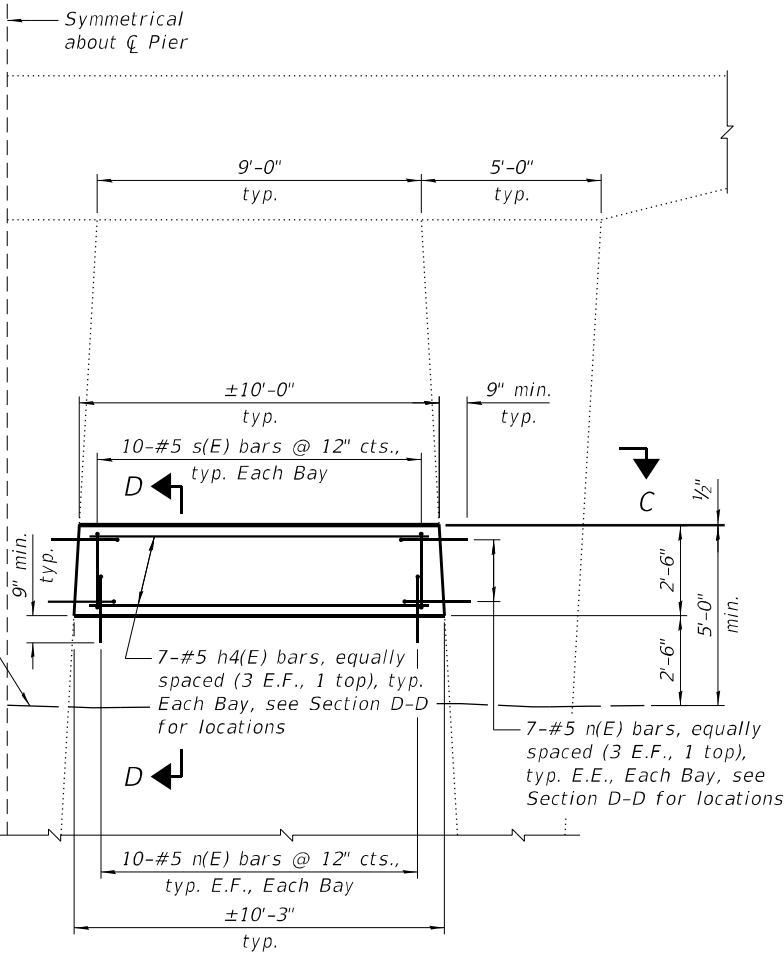
SECTION B-B



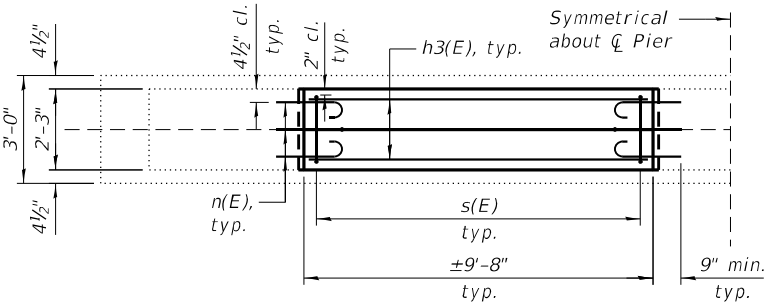
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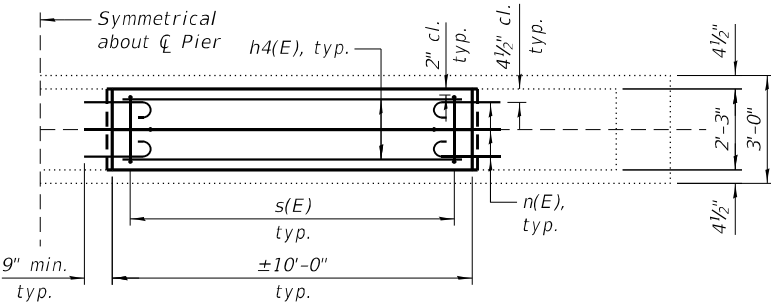
PIER NO. 1 & NO. 3 ELEVATION



PIER NO. 2 ELEVATION



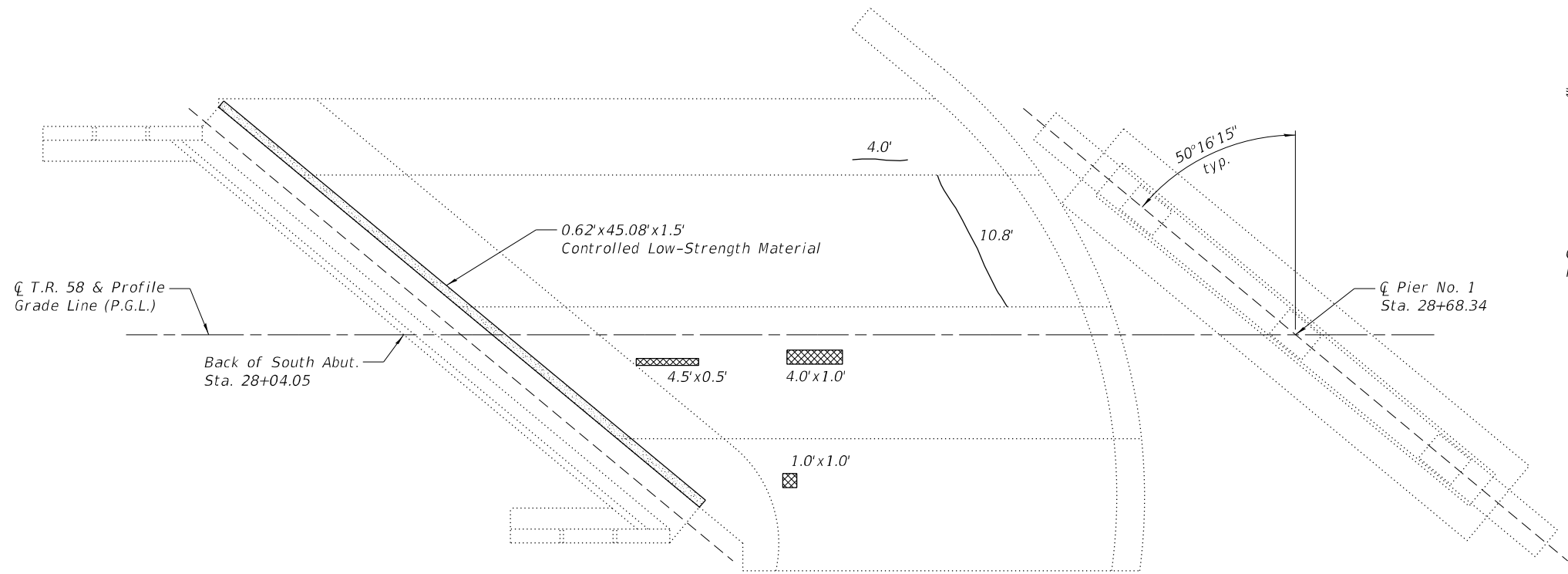
SECTION A-A



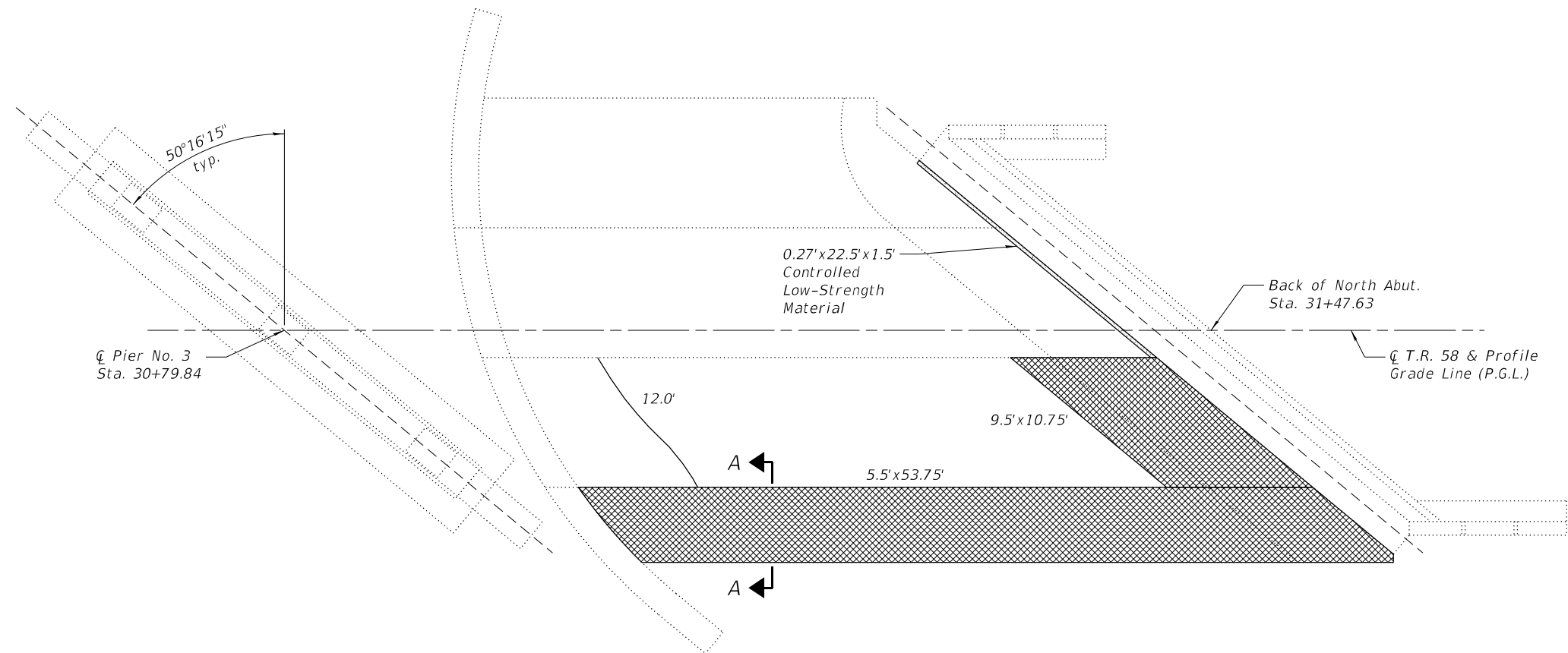
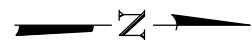
SECTION C-C

NOTES:

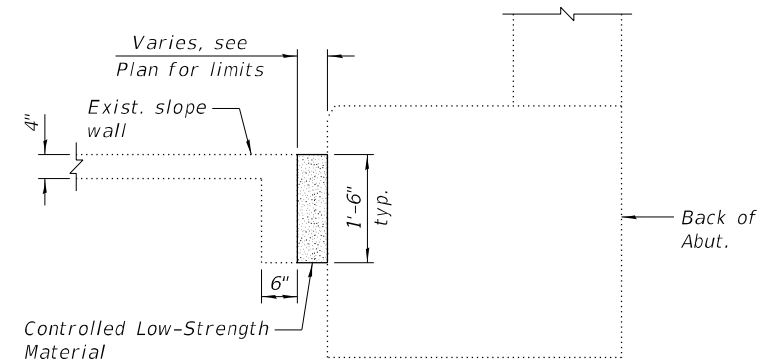
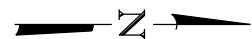
- 1.) Drill & epoxy grout #5 n(E) bars 9" min. into existing concrete according to Section 584 of the Standard Specifications.
- 2.) Concrete Sealer shall be applied according to Section 587 of the Standard Specifications to all exposed faces of pier located below the bearings, after installation of proposed crash wall extensions.
- 3.) E.F. denotes Each Face and E.E. denotes Each End.



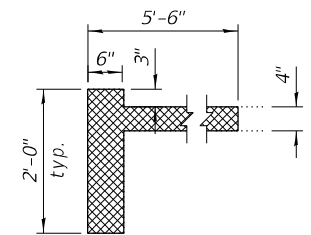
SOUTH SLOPE WALL PLAN



NORTH SLOPE WALL PLAN



TYPICAL SECTION AT ABUTMENT



SECTION A-A

LEGEND

-  Slope Wall Repair
-  Controlled Low-Strength Material
-  L.F. Slope Wall Crack Sealing

BILL OF MATERIAL

Item	Unit	Total
Controlled Low-Strength Material	Cu. Yd.	1.9
Slope Wall Crack Sealing	Foot	185
Slope Wall Repair	Sq. Yd.	45

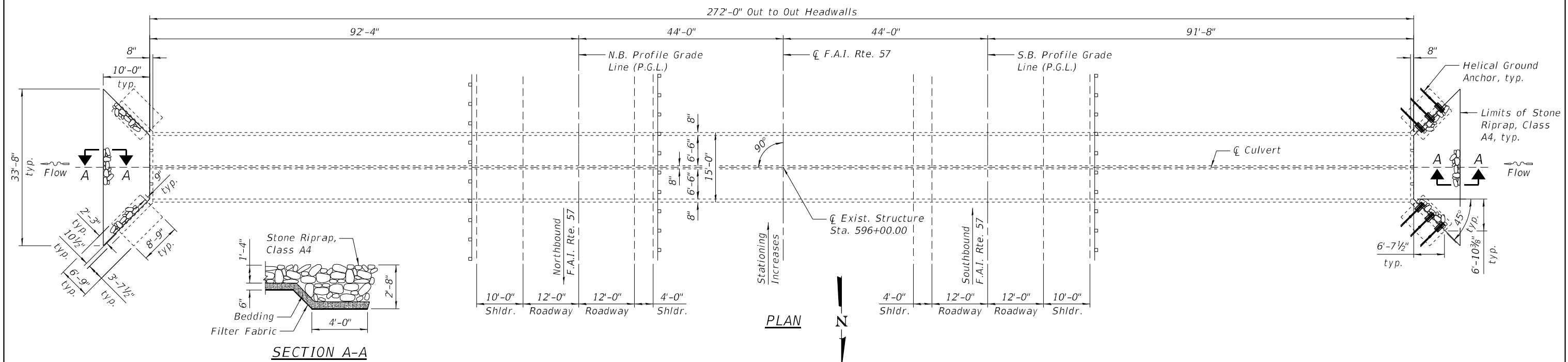
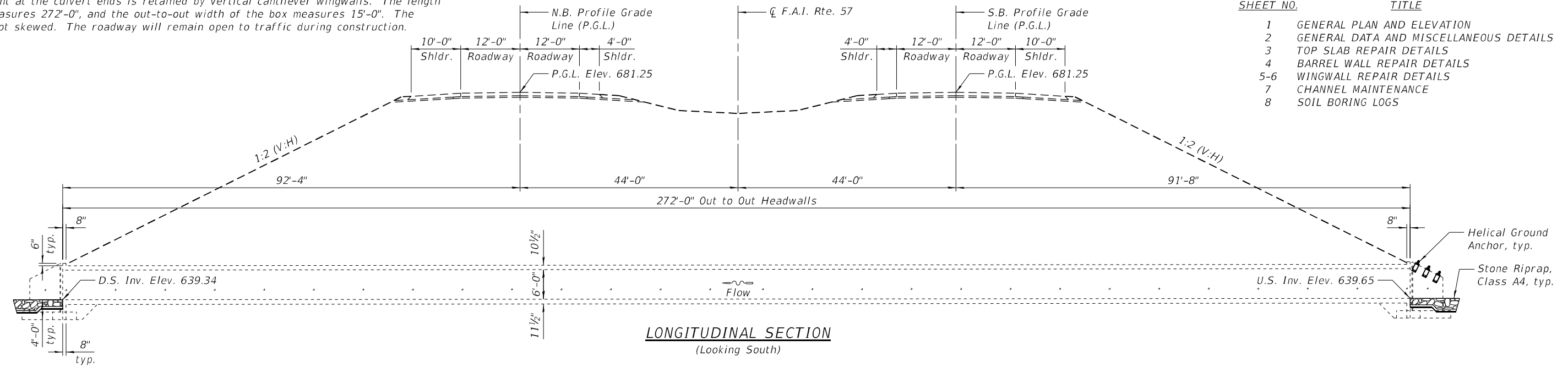
NOTES:

- Slope wall shall be reinforced with welded wire fabric. 6 in. x 6 in. - W4.0 x W4.0 weighing 58 lbs. per 100 sq. ft.
- The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.
- The quantities shown for Slope Wall Crack Sealing have been increased beyond those identified in the Plan view shown on this sheet to account for sealing of open joints.

No Salvage.

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>TITLE</u>
1	GENERAL PLAN AND ELEVATION
2	GENERAL DATA AND MISCELLANEOUS DETAILS
3	TOP SLAB REPAIR DETAILS
4	BARREL WALL REPAIR DETAILS
5-6	WINGWALL REPAIR DETAILS
7	CHANNEL MAINTENANCE
8	SOIL BORING LOGS



SCOPE OF WORK

- 1.) *Cleaning of the box culvert to remove sediment and debris.*
- 2.) *Channel excavation to remove sediment and debris.*
- 3.) *Placement of riprap.*
- 4.) *Sealing of cracks in culvert barrel walls and top slab.*
- 5.) *Stabilization of wingwalls with helical ground anchors.*

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications
for Highway Bridges

EXISTING DESIGN STRESSES

FIELD UNITS (1966):
 $f_y = 40,000$ psi (Reinforcement)
 $f'_c = 3,500$ psi (Barrel)
 $f'_c = 2,500$ psi (Wingwalls)

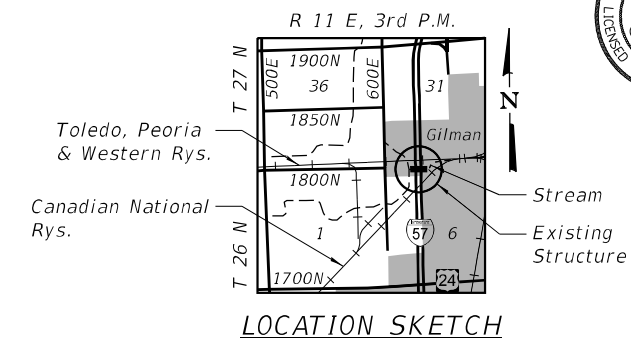
PROPOSED DESIGN STRESSES

FIELD UNITS:

$f'_c = 3,500 \text{ psi}$
 $f_y = 50,000 \text{ psi (M270 Grade 50)}$

LOADING

This structure was not designed for vehicular loading.



WILLIAM MARDAUSS, P.E., S.E. DATE: 03/20/2026
LICENSE EXPIRES 11 / 30 / 2026

I-57 OVER STREAM
F.A.I. RTE. 57 - SEC. *
IROQUOIS COUNTY
STATION 596+00.00
STRUCTURE NO. 038-2509



	DESIGNED - RNP	REVISED
	CHECKED - VPT	REVISED
	DRAWN - DJM	REVISED
DATE - 03/20/2026	CHECKED - VPT	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**GENERAL PLAN AND ELEVATION
STRUCTURE NO. 038-2509**

SHEET NO. 1 OF 8 SHEETS

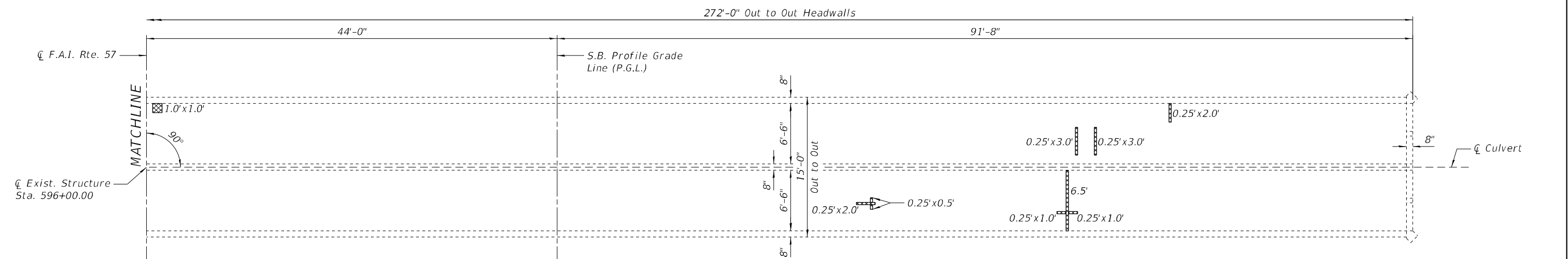
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57	(38-4,38-5)BDR.CR	IROQUOIS	437	346
		CONTRACT NO. 66M80		
	ILLINOIS			

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Channel Excavation	Cu. Yd.	1,817
Stone Riprap, Class A4	Sq. Yd.	103
Filter Fabric	Sq. Yd.	103
Box Culverts to be Cleaned	Foot	544
Helical Ground Anchors	Each	6
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	16
Rock Fill	Cu. Yd.	4

GENERAL NOTES:

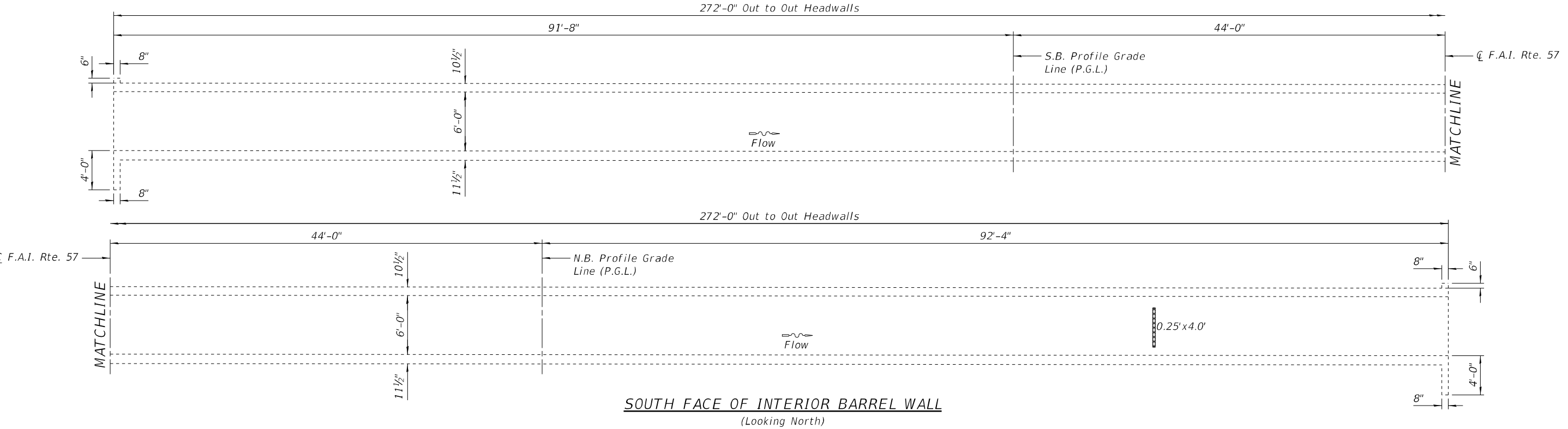
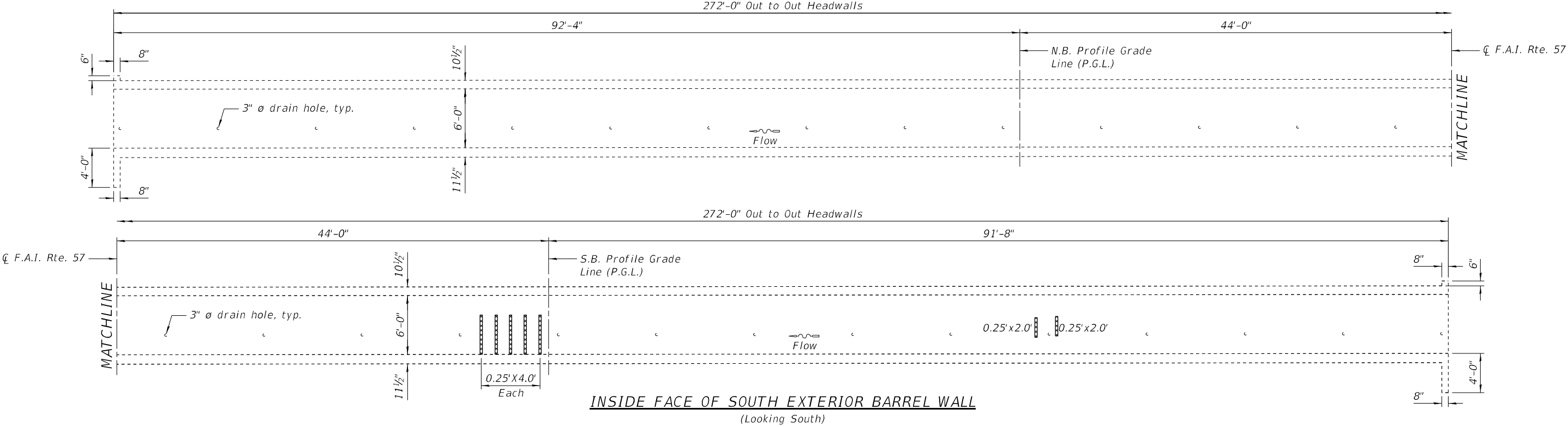
- 1.) It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction.
- 2.) Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 3.) The Contractor may request copies of existing construction plans that are currently on file with the Department. The request shall be in writing with the understanding that any reproduction cost will be at the Contractor's expense at no additional cost to the Department.
- 4.) All structural steel shall conform to the requirements of AASHTO M270 Grade 50, unless otherwise noted.
- 5.) No field welding is permitted except as specified in the contract documents.
- 6.) Any elevations shown in these plans have been taken directly from the 1966 existing structure plans, and have been included here for reference. Such elevations have not been adjusted to account for the use of differing datums, nor have they been verified by field survey.



N

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	9

The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.



LEGEND



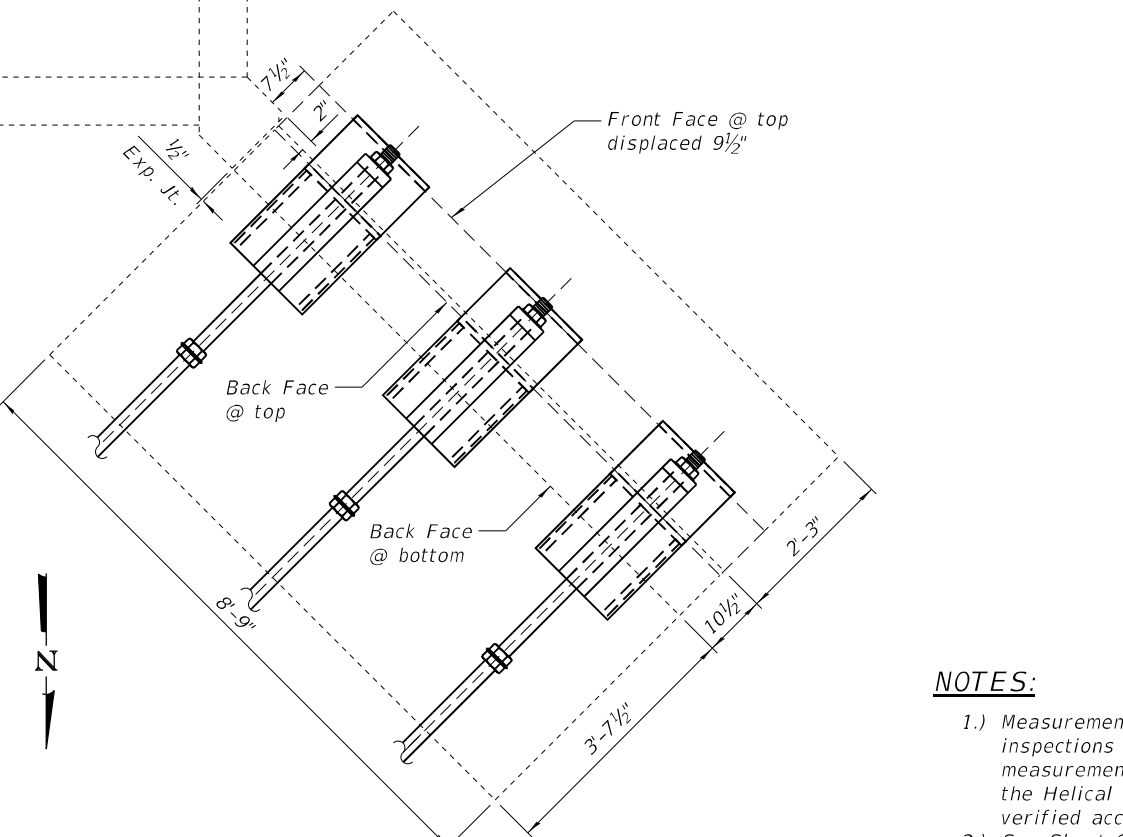
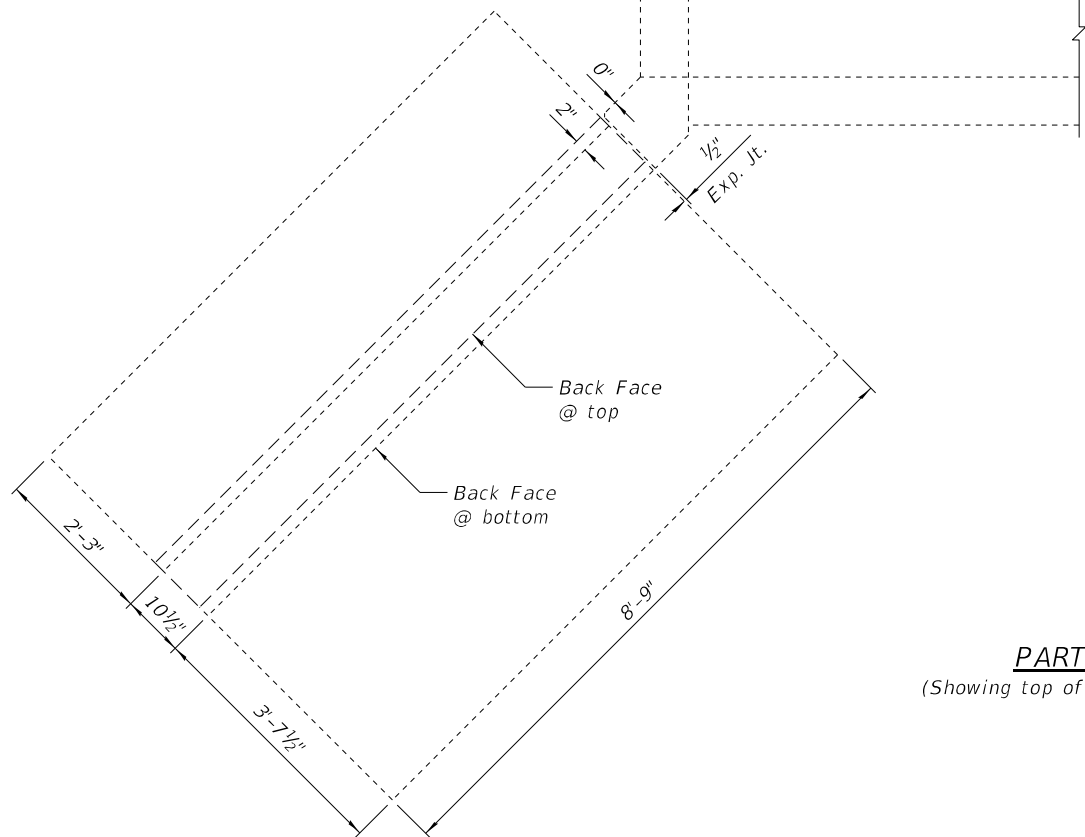
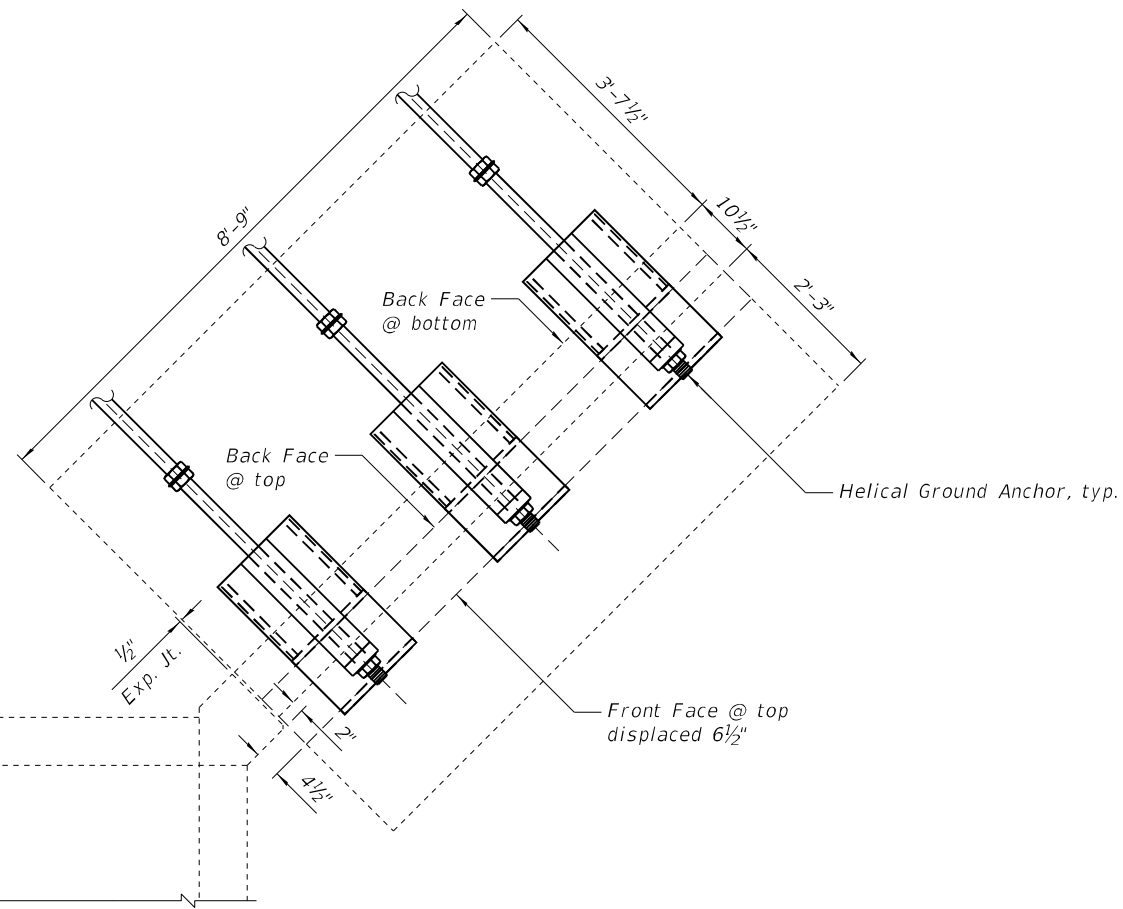
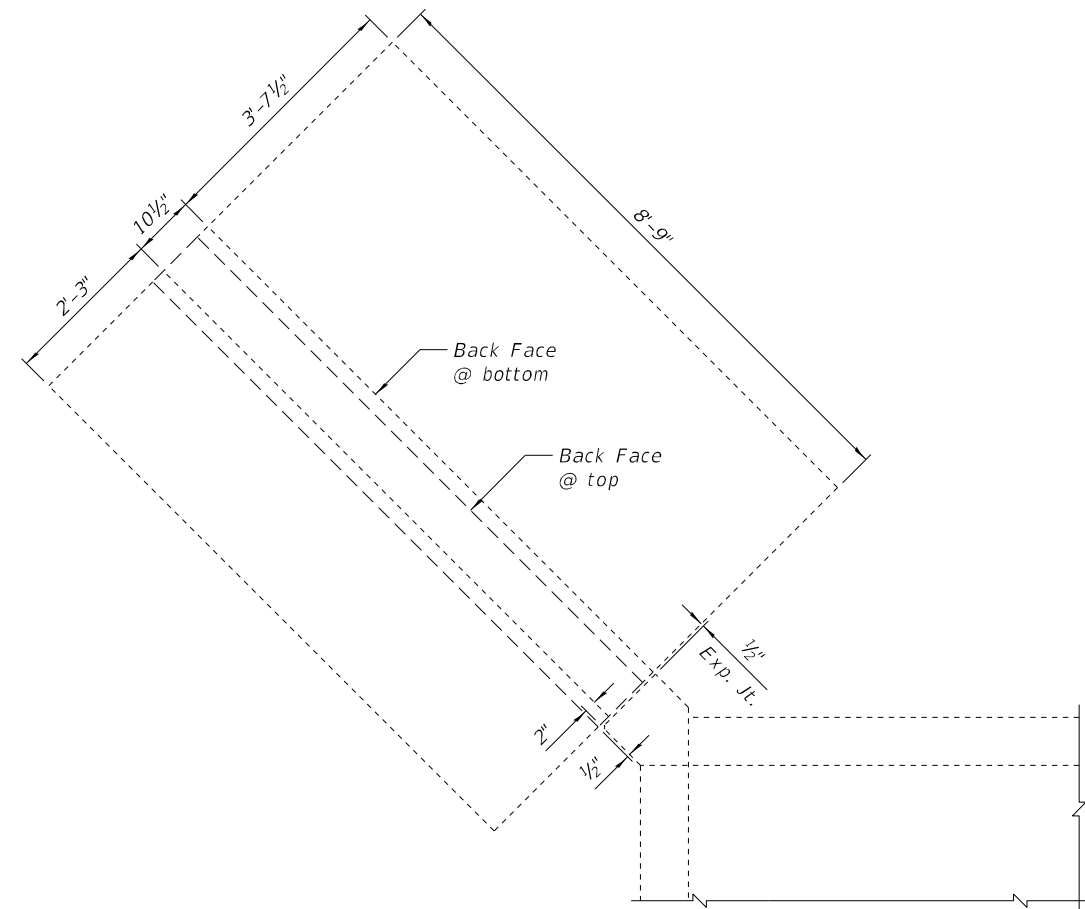
Structural Repair of Concrete
(Depth Equal to or Less than
5 inches)

BILL OF MATERIAL

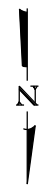
Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	7

NOTE:

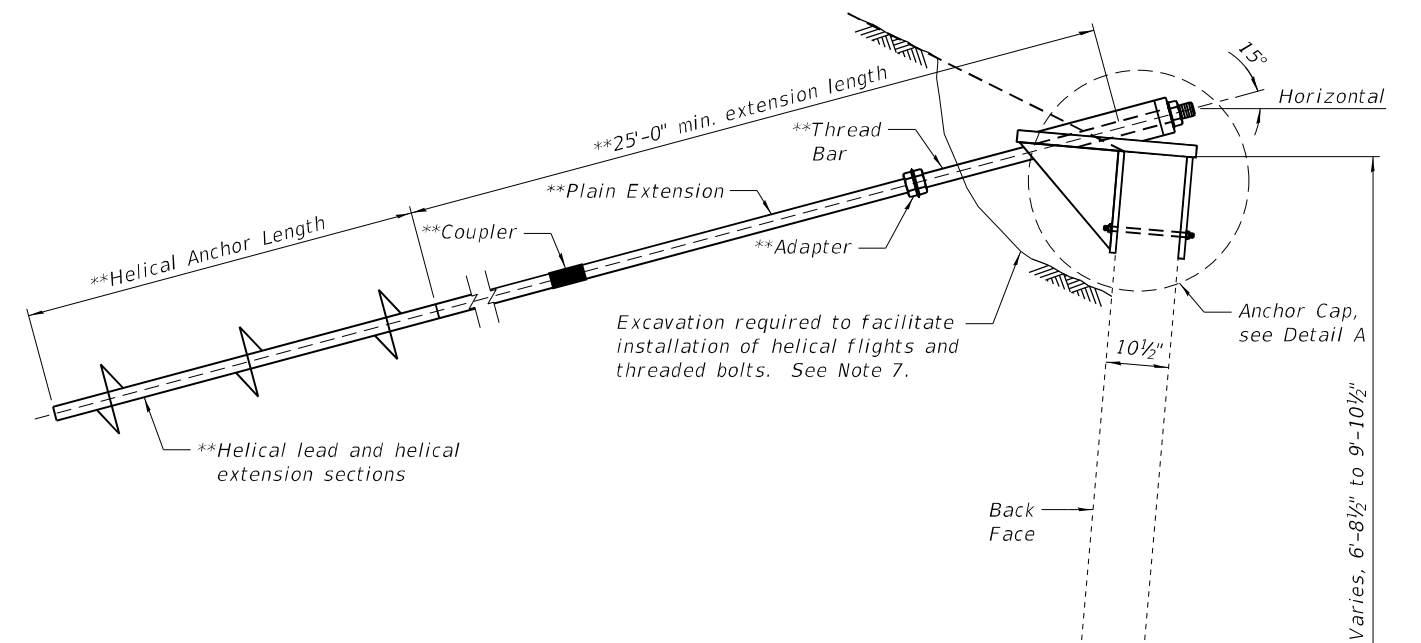
The repair areas shown are estimated based on field inspections conducted in September 2023. The actual repair areas required shall be verified according to the special provisions.



PARTIAL PLAN
(Showing top of wingwall deflections)



- NOTES:**
- 1.) Measurements shown are estimated based on field inspections conducted in September 2023. The actual measurements required for design and fabrication of the Helical Ground Anchors and components shall be verified according to the special provisions.
 - 2.) See Sheet 6 of 8 for Helical Ground Anchor details.



R_L 2"x1'-6"x2'-6"

R_L 1"x1'-5"x1'-6"
ea. side of wall

1"

1'-5"

10 1/2"

1"-5"

1/2"

1"

*** 2'-3"

Maximum 1/4" ø larger than soil anchor shaft

*** 8 3/4"

As req'd by Manufacturer.
Locate hole to miss 1" R_L below.

3/8"

3/8"

Diagram of a square plate with a central circular hole. The plate has a side length of 6 inches. The hole has a diameter of 1 1/2 inches. The distance from the hole's edge to the plate's edge is 2'-3" (top), 1'-8" (right), 8 9/16" (bottom), and 2'-3" (left). A note indicates the hole's diameter is maximum 1/4" larger than the soil anchor shaft.

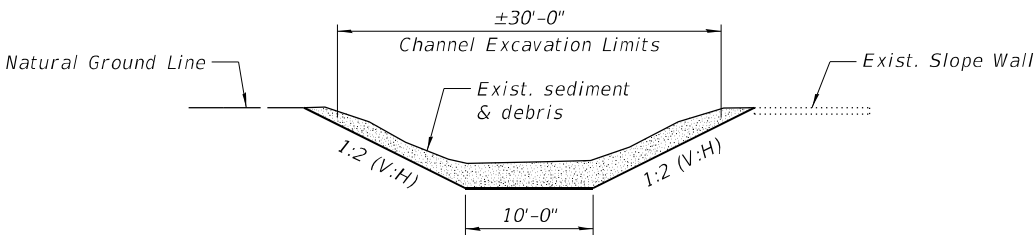
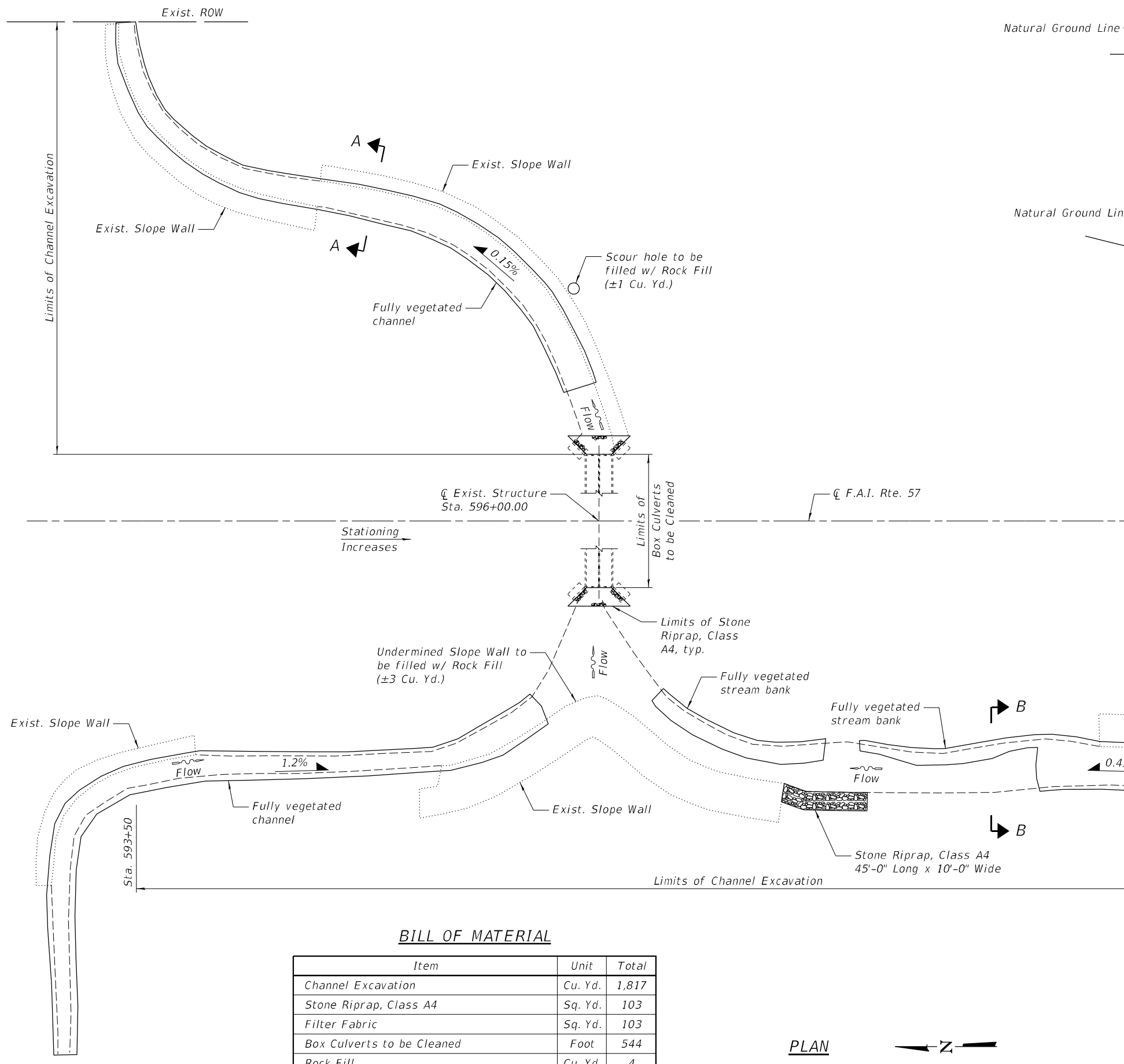
A diagram of a stepped L-shaped object. The top horizontal edge is divided into two segments: the left segment is labeled $3'-7\frac{1}{2}"$ and the right segment is labeled $2'-3"$. The total width of the object is indicated by a dimension line at the bottom labeled $6'-9"$. The vertical edge on the right is labeled $1'-6"$. Dashed lines indicate the internal structure and the extension of the dimensions.



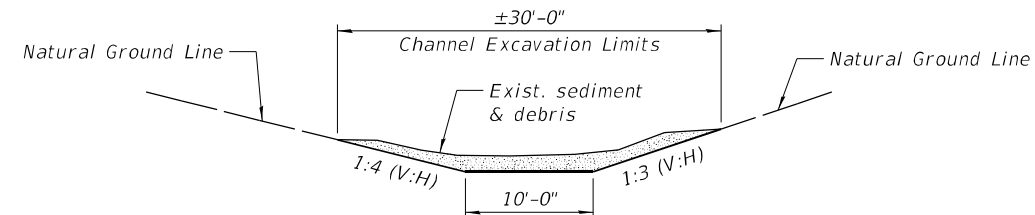
Technical drawing of a steel block assembly. The drawing shows a perspective view of a rectangular steel block with two threaded rods passing through it, secured with nuts. The block has a width of 10 inches and a height of 1'-6 inches. The rods are 3/4 inch diameter and are spaced 4 inches apart. The block has a 1/8 inch maximum thickness. The rods are 1 inch in diameter and are 1'-4 1/2 inches long on each side. The block is labeled 'Steel block' and the rods are labeled '3/4" $\varnothing$ Threaded Rods'. The drawing also shows a 'Hole as req'd by manufacturer' and a 'typ.' (typical) hole dimension of 3/8 inch. The block has a 1/8 inch maximum thickness. The rods are 1 inch in diameter and are 1'-4 1/2 inches long on each side. The block is labeled 'Steel block' and the rods are labeled '3/4" $\varnothing$ Threaded Rods'.

- 1.) ***Helical Ground Anchors shall be designed by the Manufacturer, see Special Provisions.*
- 2.) *The Contractor shall submit design calculations and shop drawings for proposed Helical Ground Anchors to the Engineer for review and approval.*
- 3.) *Helical Ground Anchor design load (Service) = 25 kips per anchor (max.). See the Special Provisions for testing requirements.*
- 4.) *Maximum allowable helix plate diameter as recommended by the supplier.*
- 5.) *All Helical Ground Anchor components, anchor caps, steel washers, shim plates, and steel angles shall be galvanized according to Article 509.05 of the Standard Specifications.*
- 6.) *The cost of drilling holes in concrete for the installation of threaded rods shall be included in the cost of Helical Ground Anchors.*
- 7.) *Excavation required for the installation of the Helical Ground Anchors and components will not be paid for separately, but will be included in the cost of the item for which it is required, in accordance with Section 502.13 of the Standard Specifications.*

<i>Item</i>	<i>Unit</i>	<i>Total</i>
<i>Helical Ground Anchors</i>	<i>Each</i>	<i>6</i>



SECTION A-A



SECTION B-B

- NOTES:**
- 1.) Contractor to field verify existing streambed at upstream & downstream ends prior to riprap placement. Any voids in excess of riprap thicknesses as shown in Section A-A on Sheet 1 of 8 shall be filled with Rock Fill. Filling of voids paid for as Rock Fill.
 - 2.) Clearing, Tree Removal and Protection, and Care and Repair of Existing Plant Material within the limits of Channel Excavation and the limits used for site access and operations by the Contractor will not be measured and paid for separately, but shall be included in the cost of Channel Excavation.
 - 3.) The volumes of Channel Excavation and Rock Fill shown in the Bill of Material are estimated based on field observations conducted in September 2023. The estimated volumes shown on the plans shall be verified in the field by the Contractor, and agreed to in writing by the Engineer, prior to the start of construction. The work required for the Contractor to determine current estimated volumes will not be paid for separately, but shall be included in the cost of the item for which it is required.

BILL OF MATERIAL

Item	Unit	Total
Channel Excavation	Cu. Yd.	1,817
Stone Riprap, Class A4	Sq. Yd.	103
Filter Fabric	Sq. Yd.	103
Box Culverts to be Cleaned	Foot	544
Rock Fill	Cu. Yd.	4

PLAN



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	PLOTTED _____		
NOTE BOOK	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

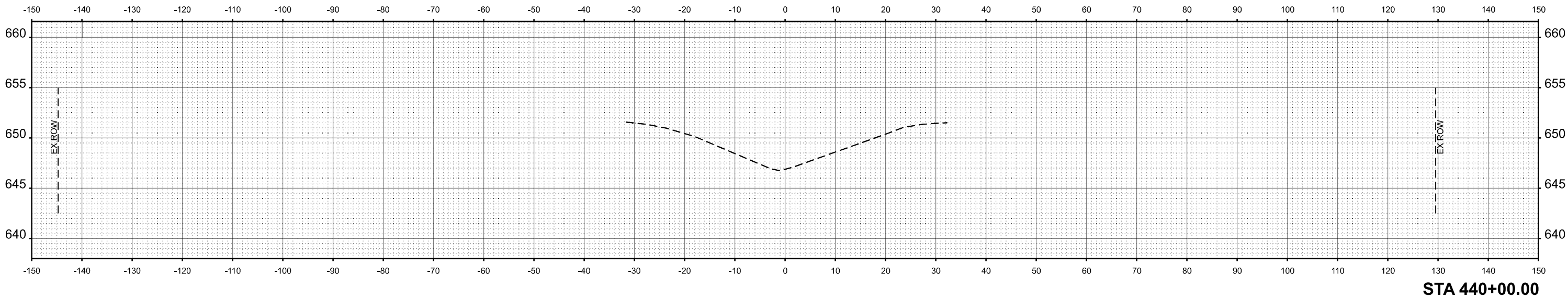


Chamlin & Associates

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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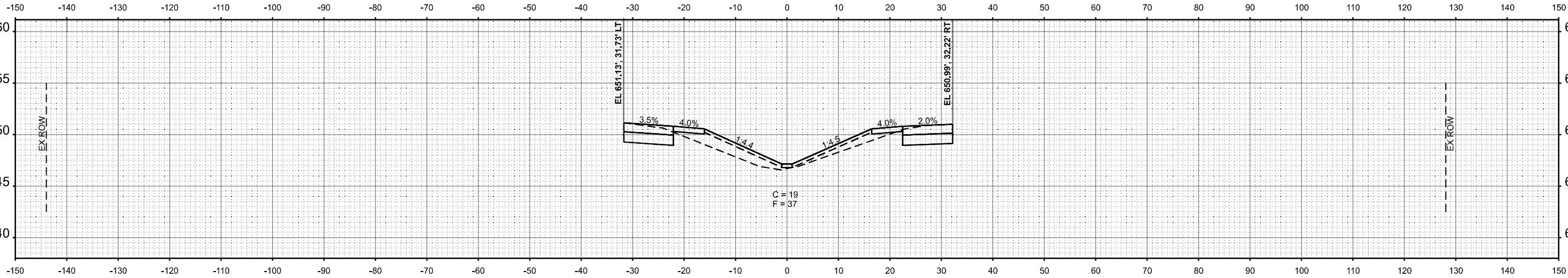
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		CONTRACT NO. 66M80		
ILLINOIS		FED. AID PROJECT		



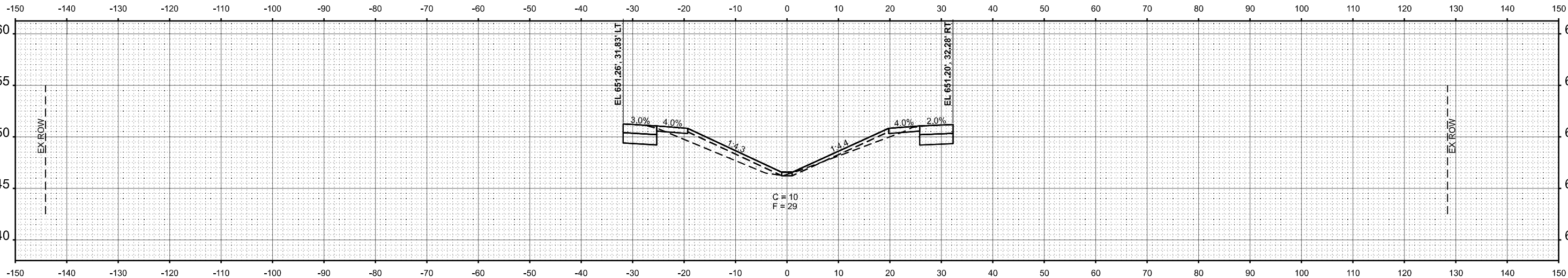
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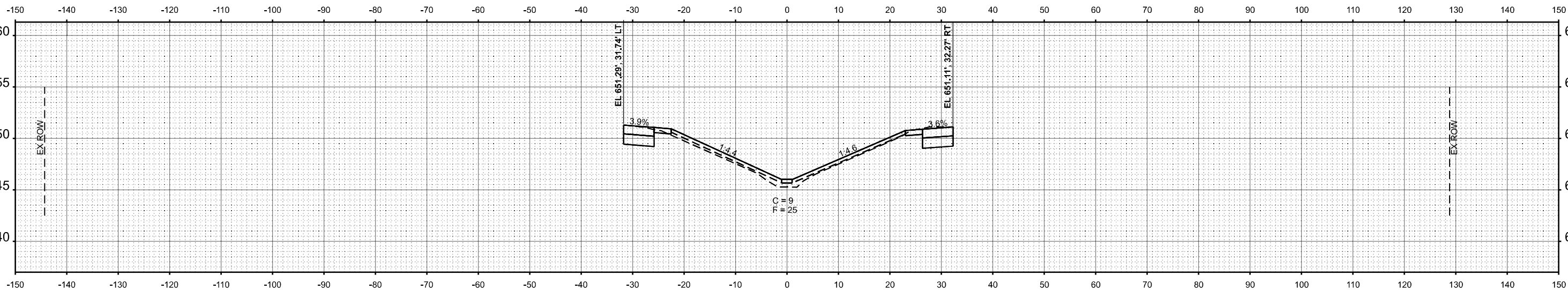
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STA 441+50.00



STA 441+00.00



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	DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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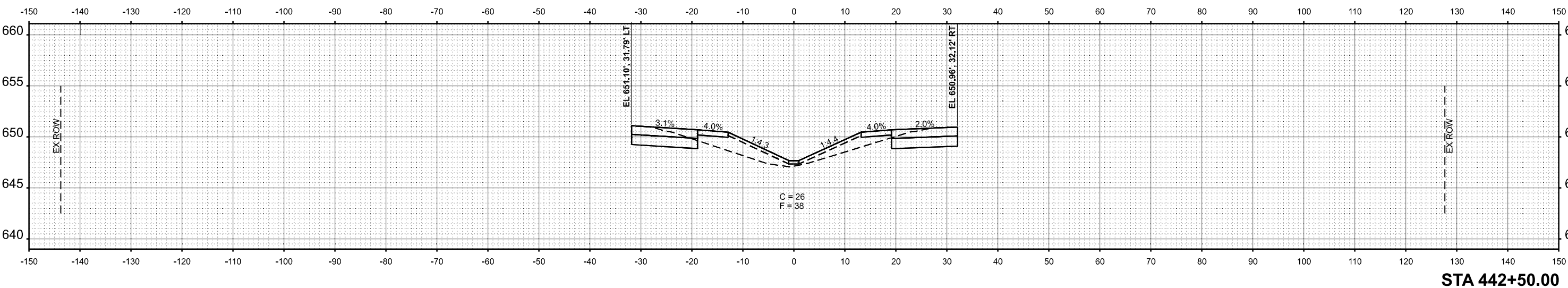
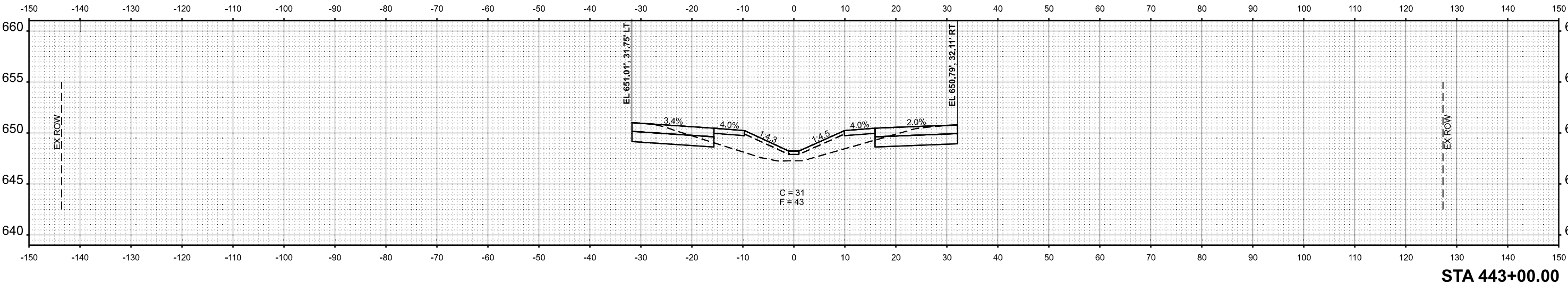
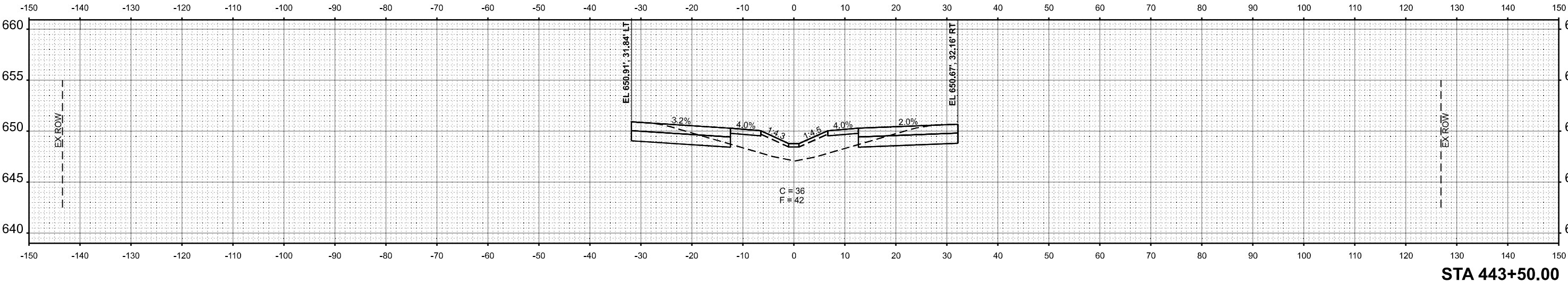
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CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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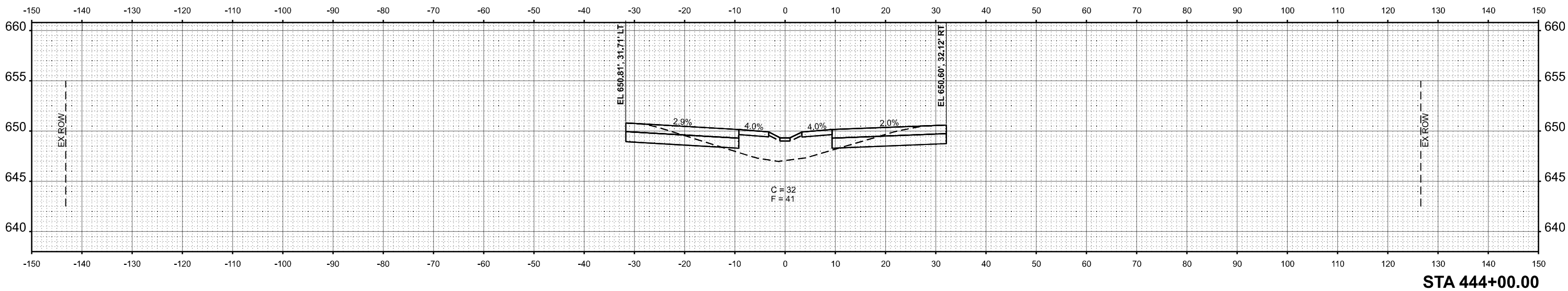
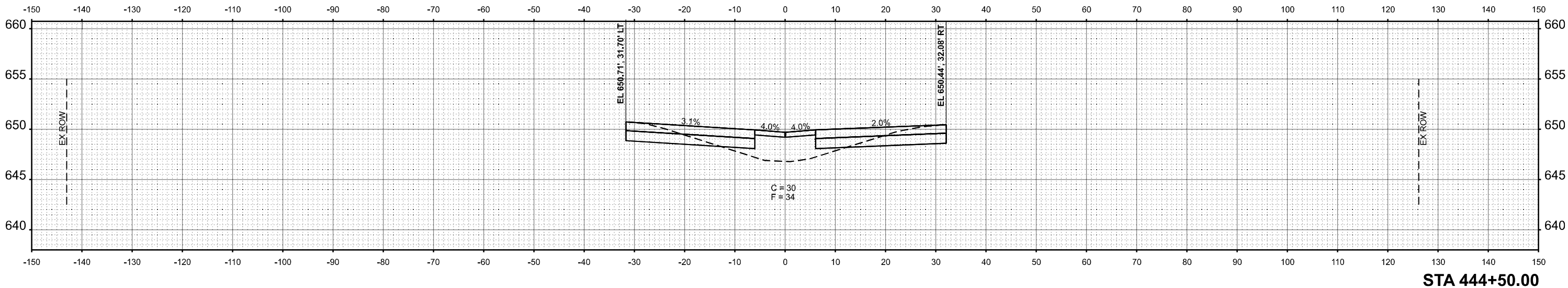
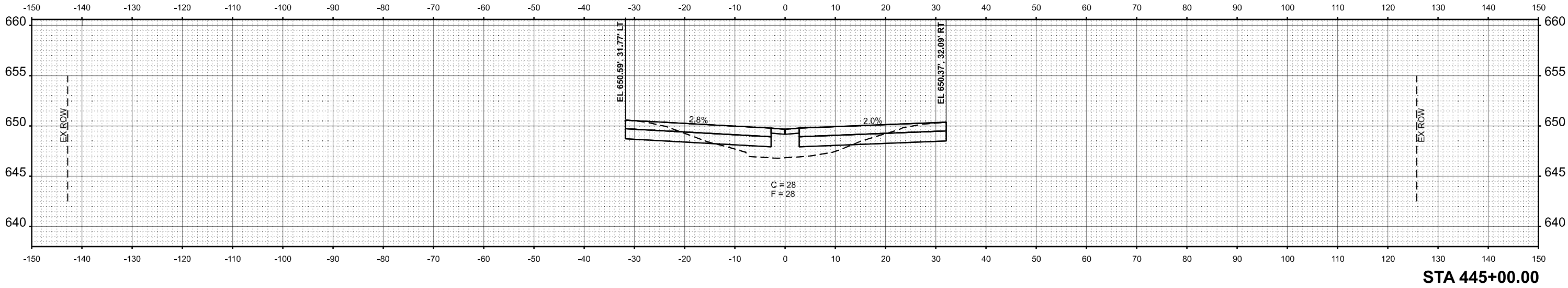
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ILLINOIS		FED. AID PROJECT		

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NOTE BOOK			
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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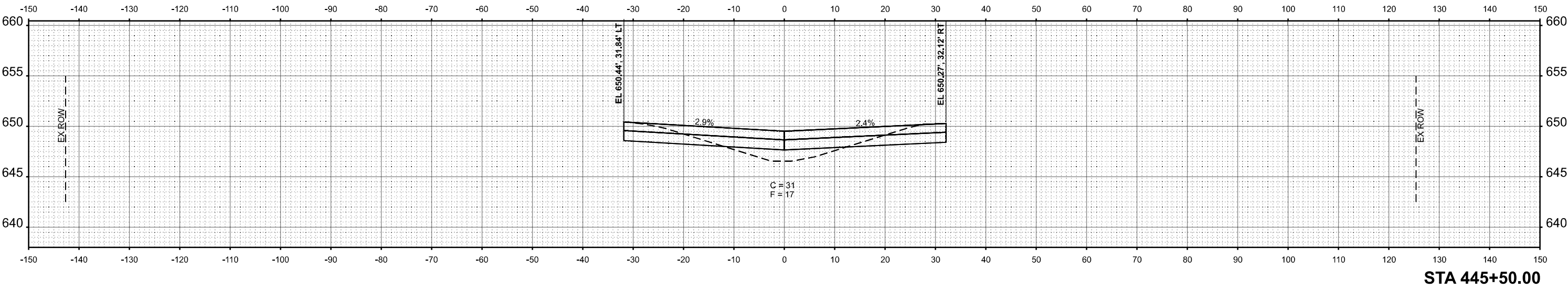
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ILLINOIS		FED. AID PROJECT		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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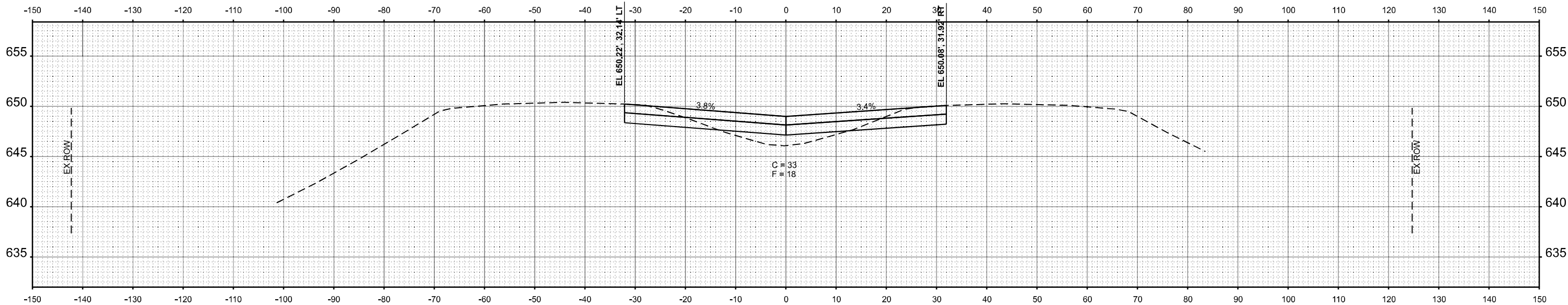
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ILLINOIS FED. AID PROJECT				

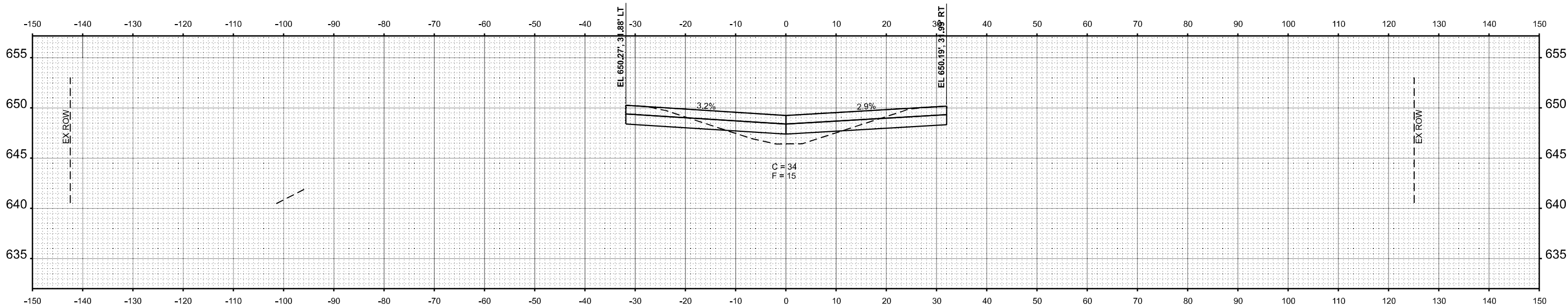
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STA 446+00.00



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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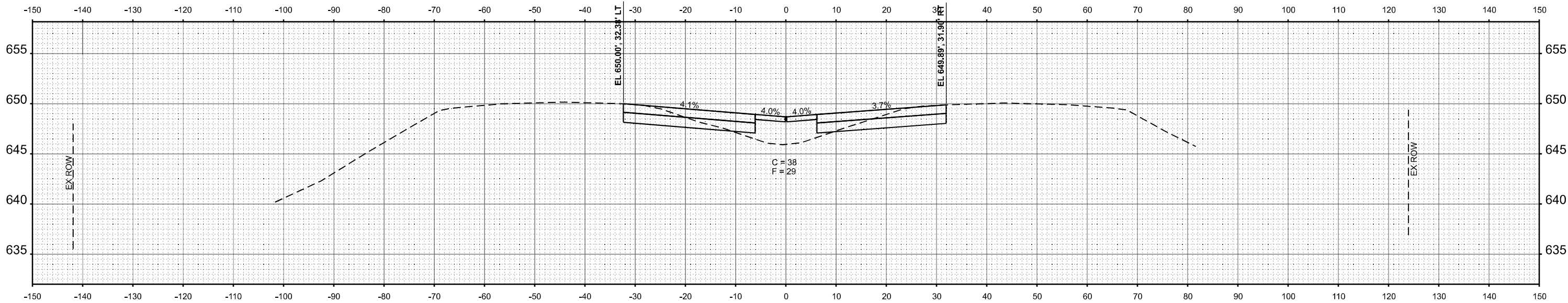
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CONTRACT NO. 66M80				
		ILLINOIS	FED. AID PROJECT	

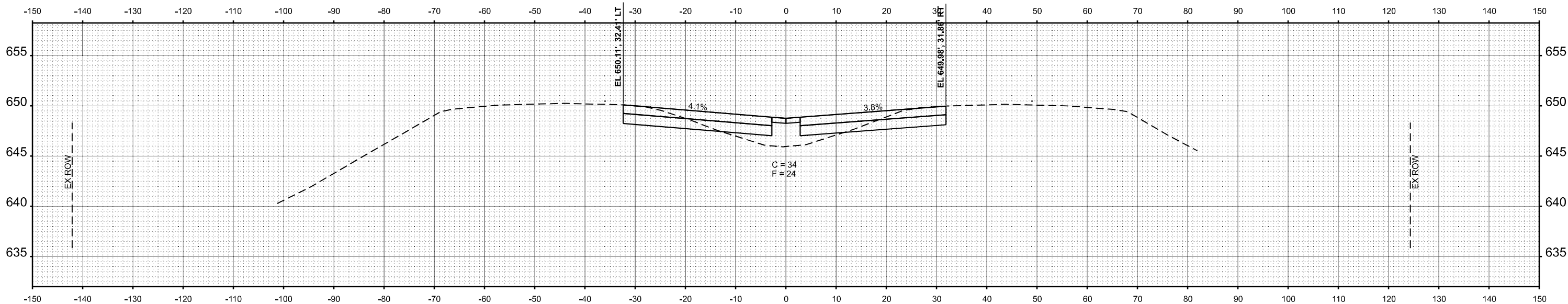
FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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

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STA 447+50.00



STA 447+00.00



USER NAME = CHAMLIN	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = SSCALE\$	CHECKED -	REVISED -
PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	360
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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



Chamlin & Associates

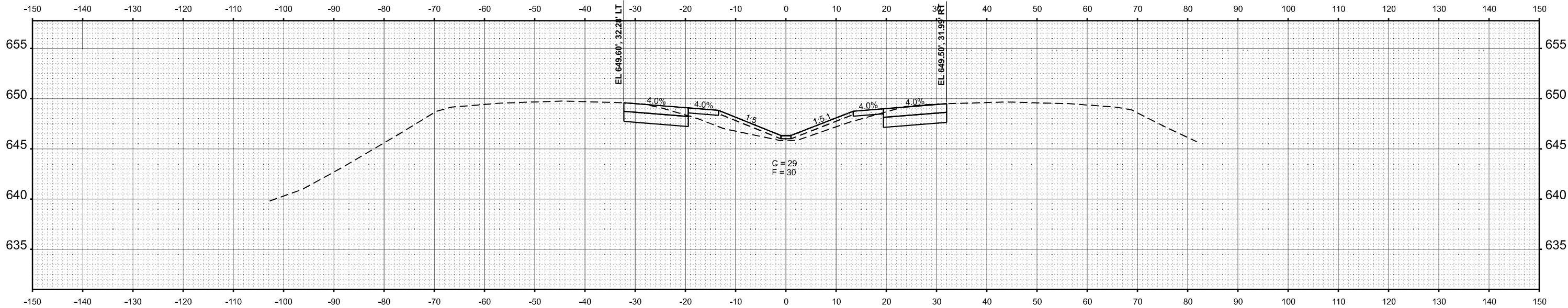
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	361
		CONTRACT NO. 66M80		
ILLINOIS		FED. AID PROJECT		

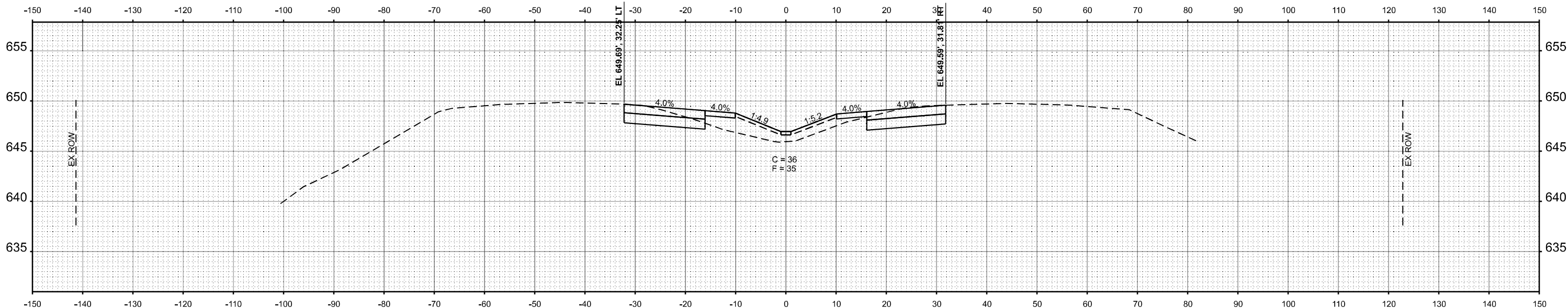
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STA 449+50.00



STA 449+00.00



USER NAME = CHAMLIN	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = SSCALE\$	CHECKED -	REVISED -
PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

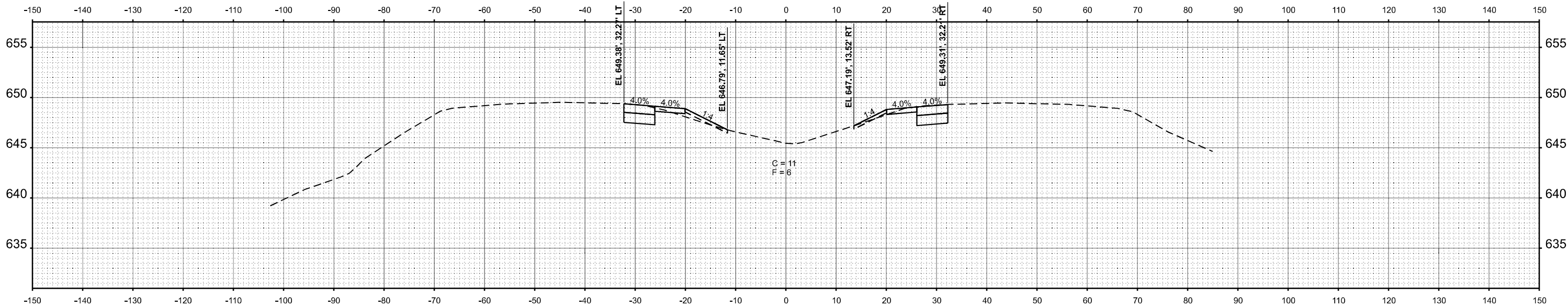
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

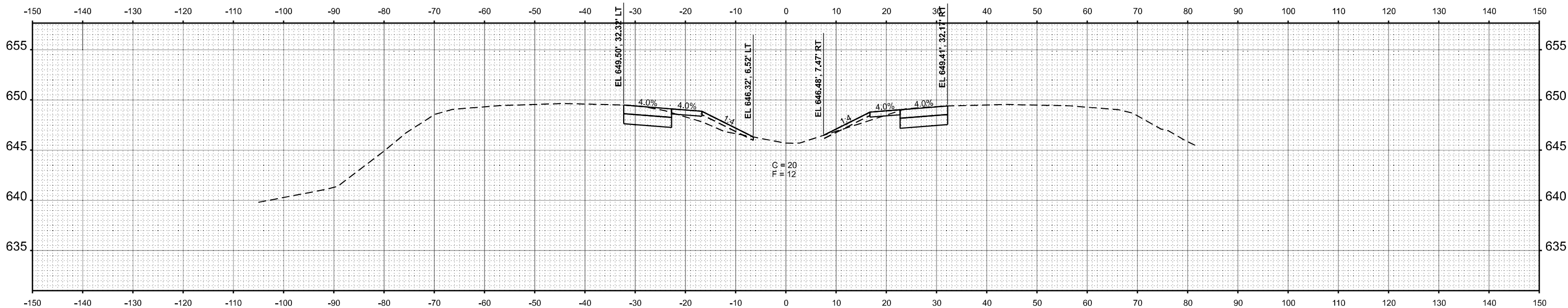
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ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE

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STA 450+50.00



STA 450+00.00



USER NAME = CHAMLIN	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = SSCALE\$	CHECKED -	REVISED -
PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

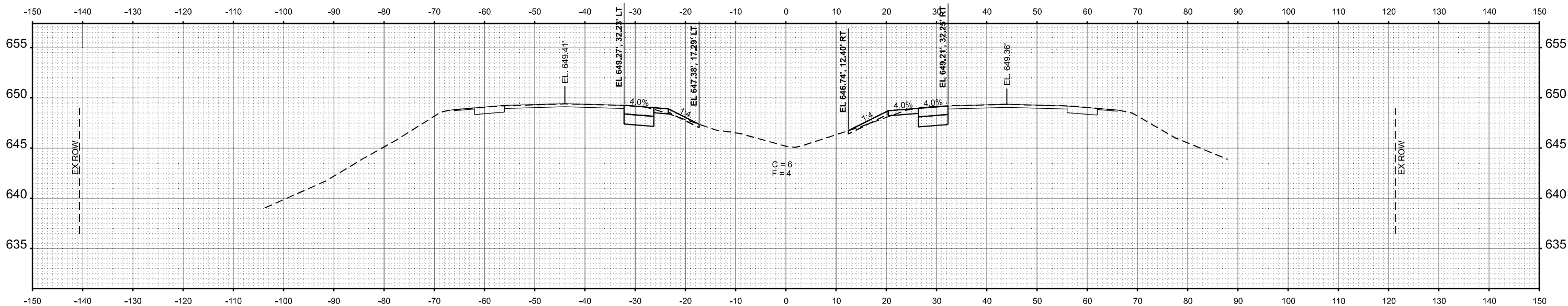
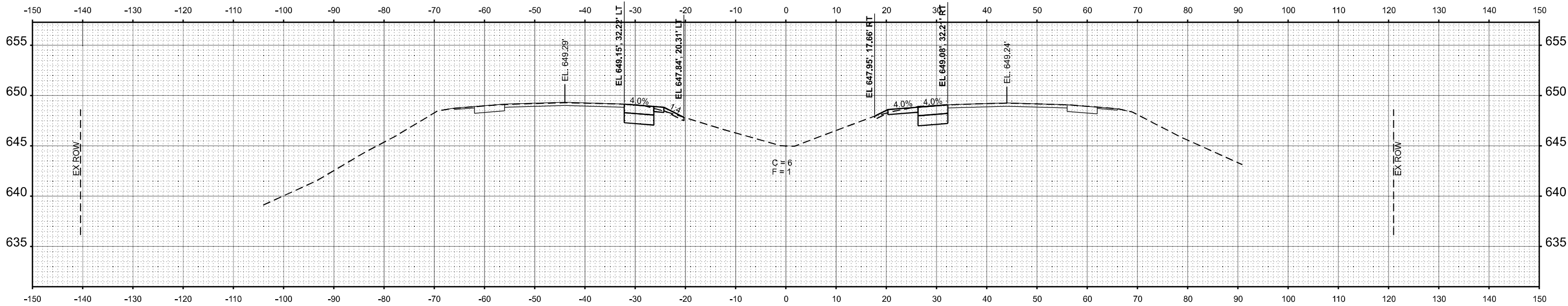
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	363
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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

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

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USER NAME = CHAMLIN	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = SSCALE\$	CHECKED -	REVISED -
PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

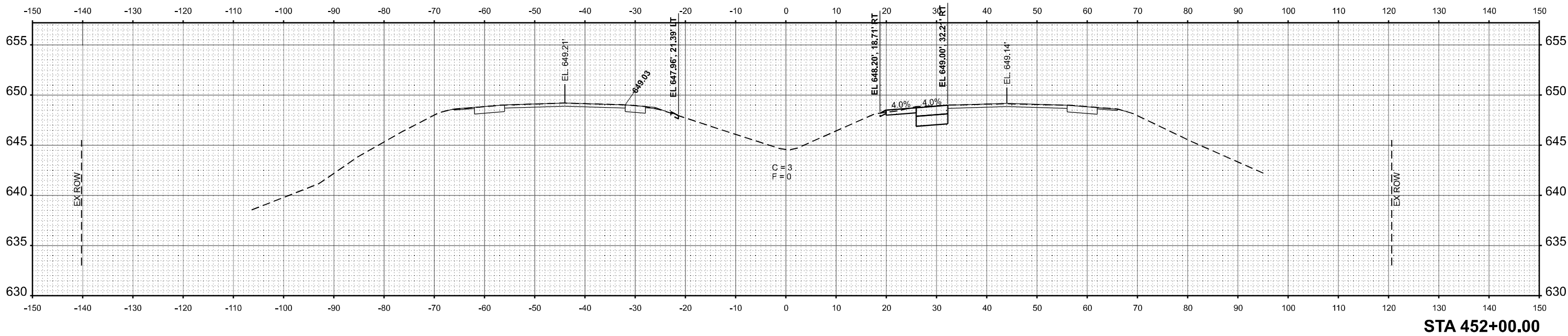
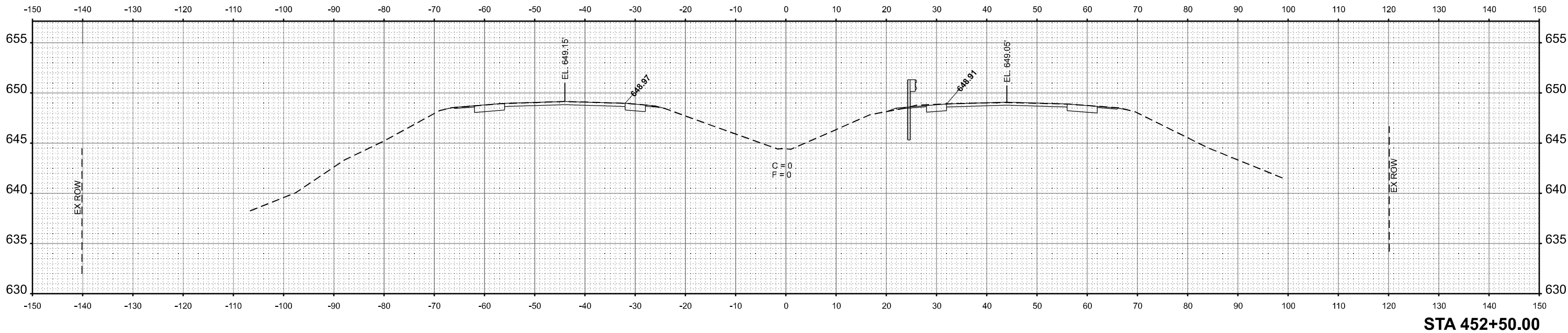
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	364
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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

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

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USER NAME = CHAMLIN	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = SSCALE\$	CHECKED -	REVISED -
PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

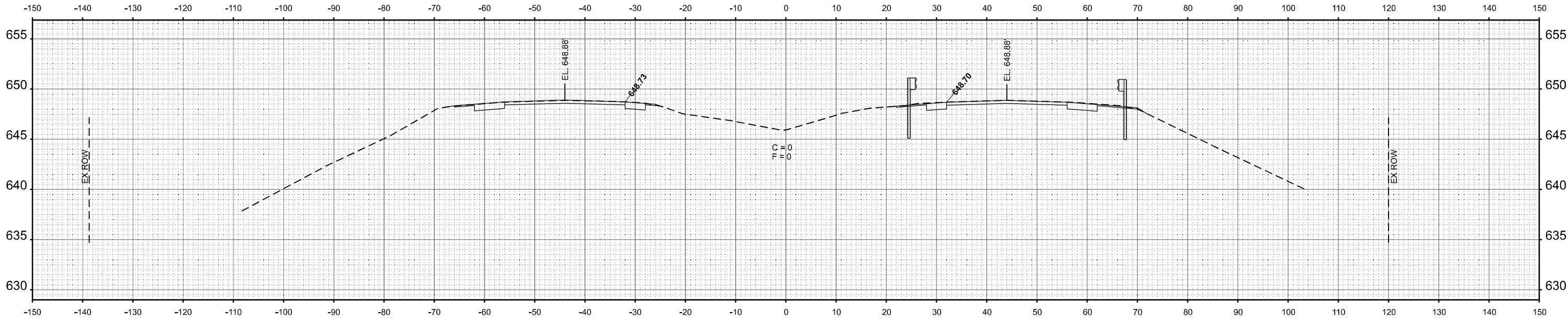
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

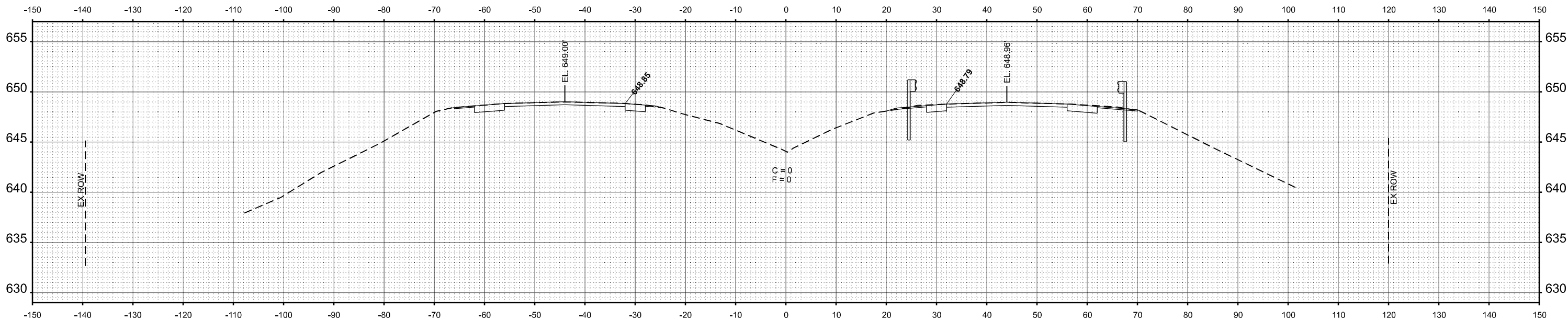
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ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE

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STA 453+50.00



STA 453+00.00



USER NAME = CHAMLIN	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

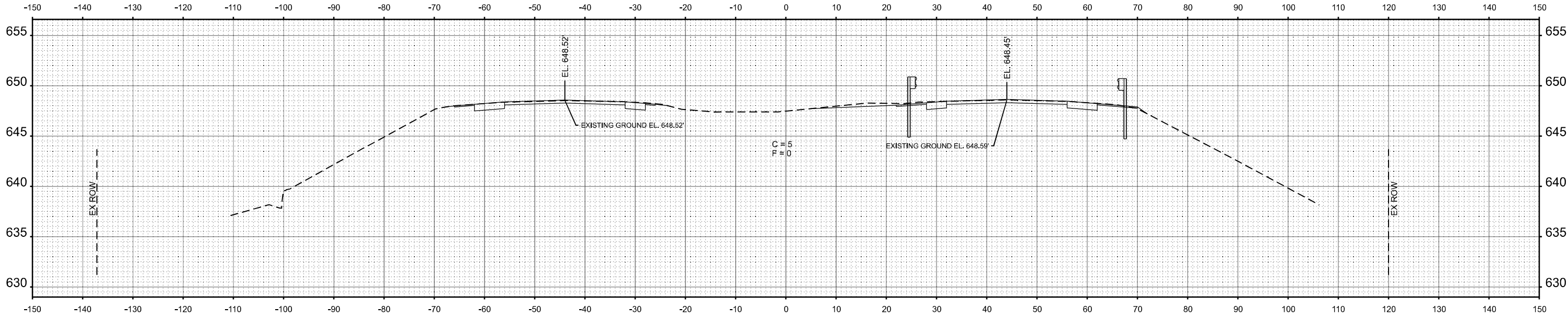
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

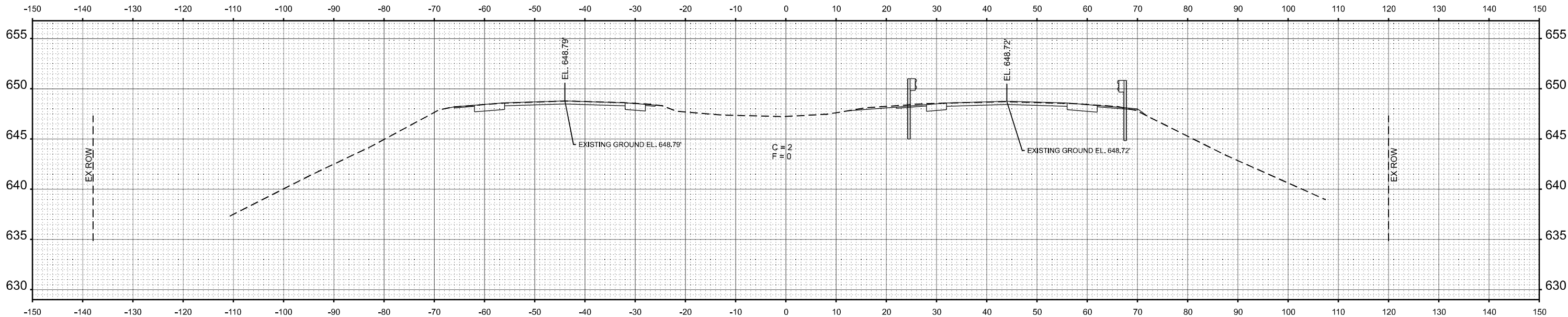
FINAL SURVEY	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE
NO.	NOTE BOOK		

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

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STA 454+50.00



STA 454+00.00

USER NAME = CHAMLIN	DESIGNED -	REVISED -
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PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-57

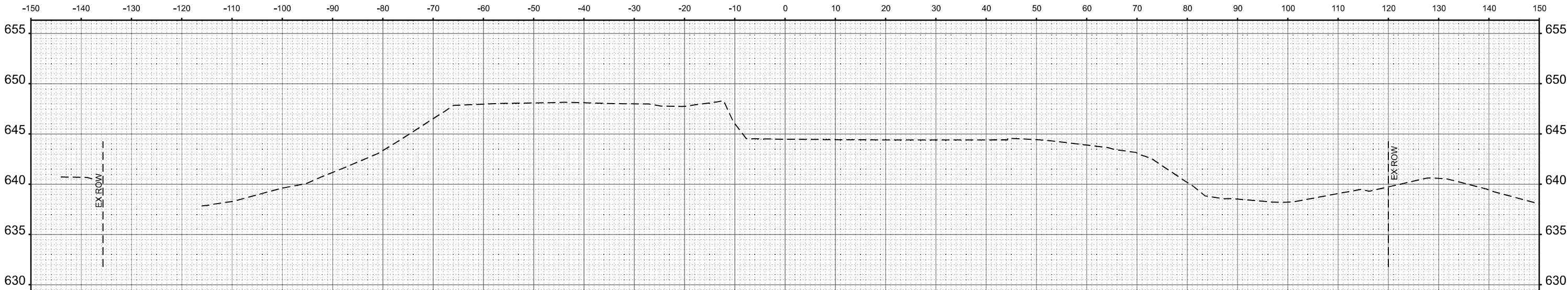
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CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

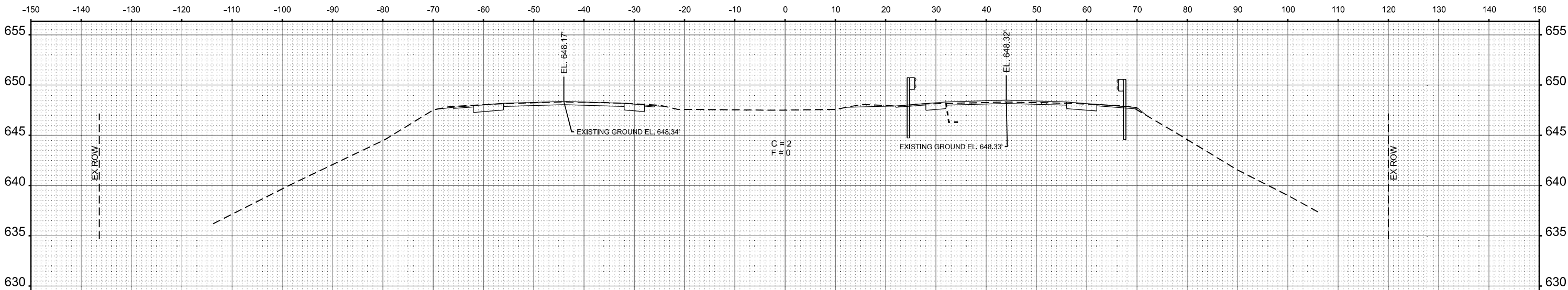
FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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

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STA 455+50.00



STA 455+00.00

USER NAME = CHAMLIN	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-57

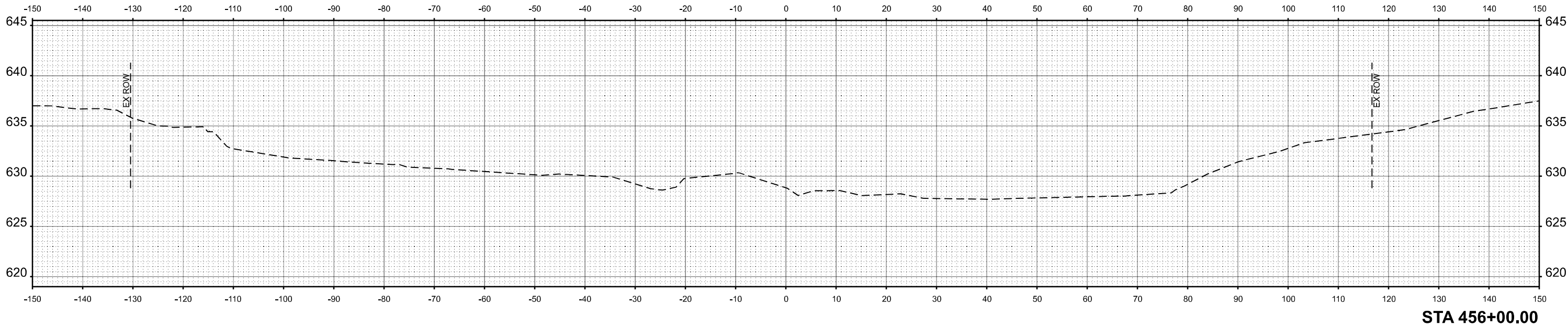
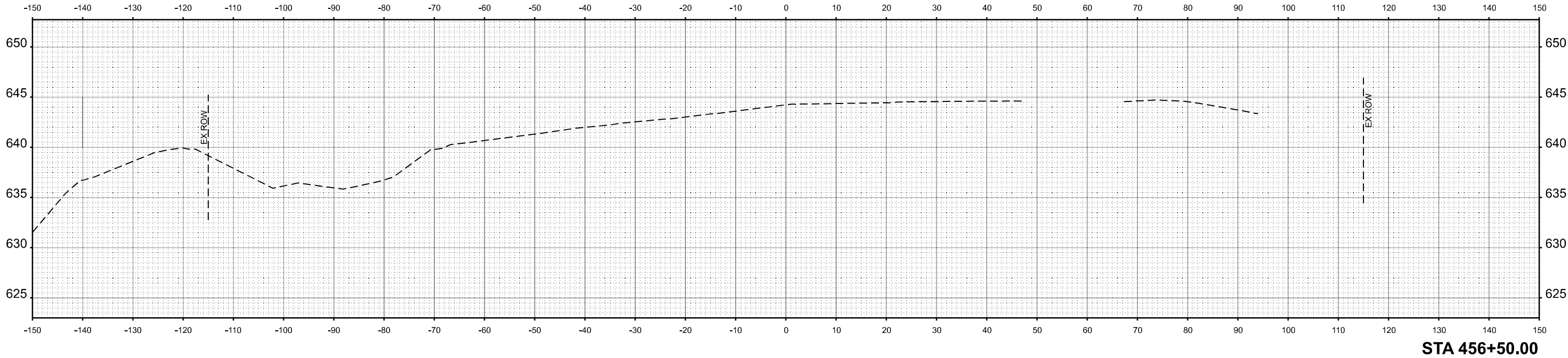
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	368
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

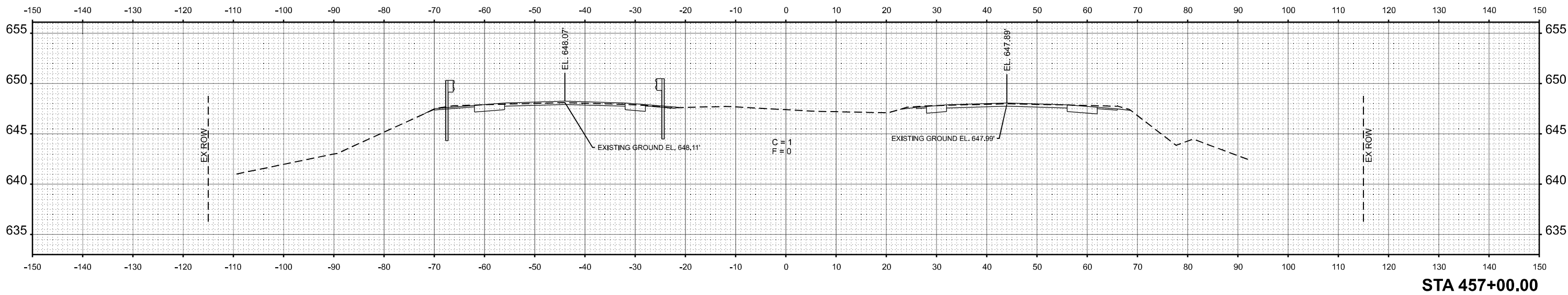
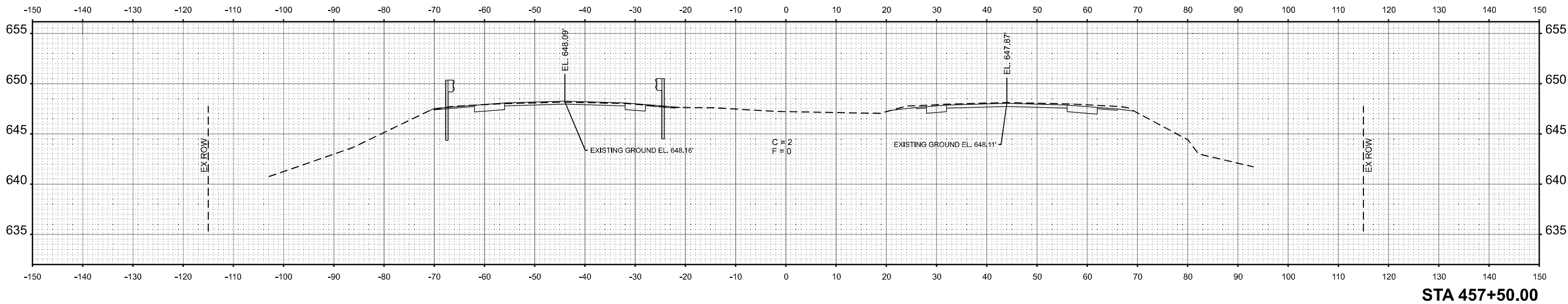
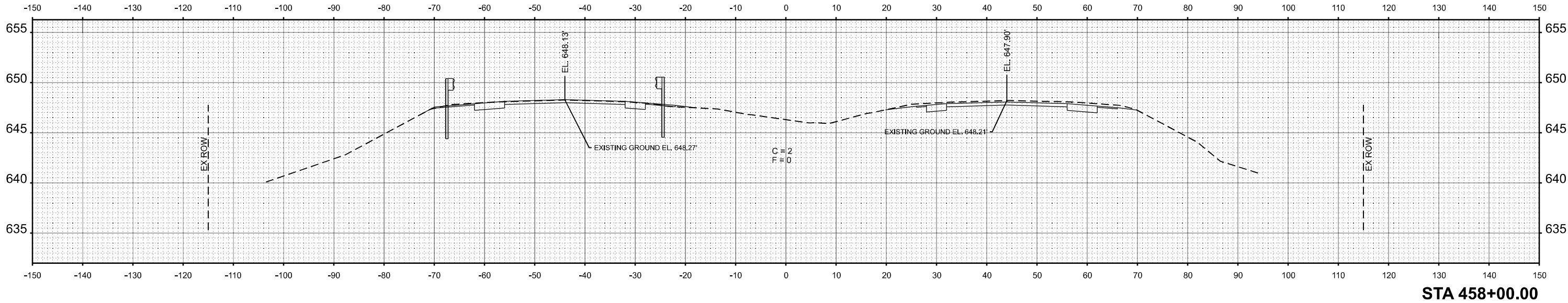
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	369
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	NO.	NOTE BOOK	AREAS CHECKED	BY	DATE

ORIGINAL SURVEY	NO.	NOTE BOOK	AREAS CHECKED	BY	DATE

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USER NAME = CHAMLIN	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-57

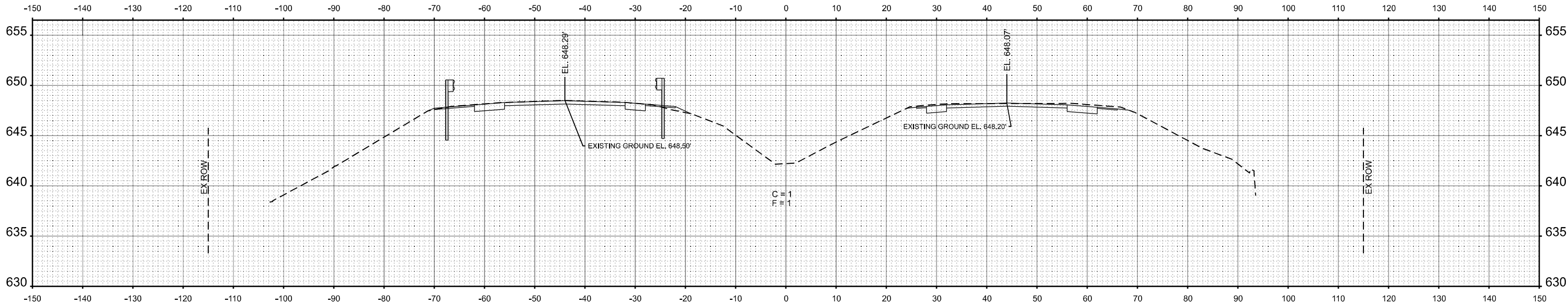
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

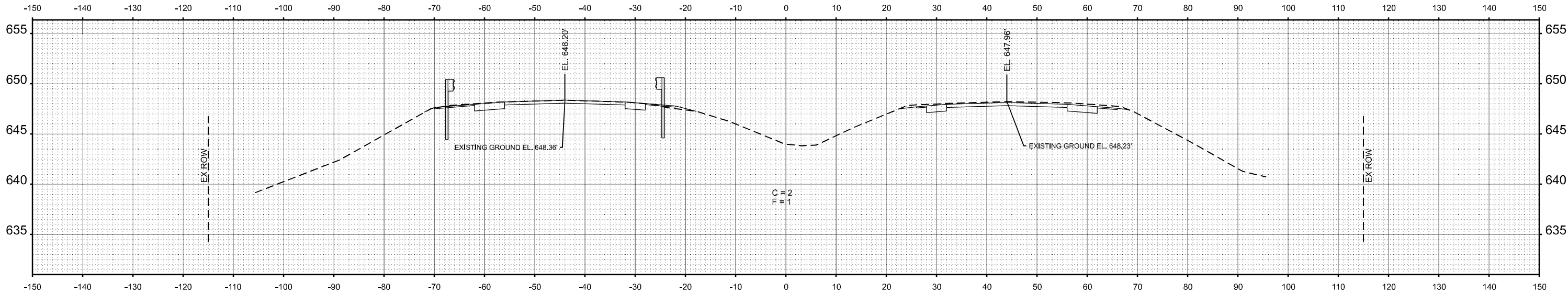
FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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

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STA 459+00.00



STA 458+50.00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-57

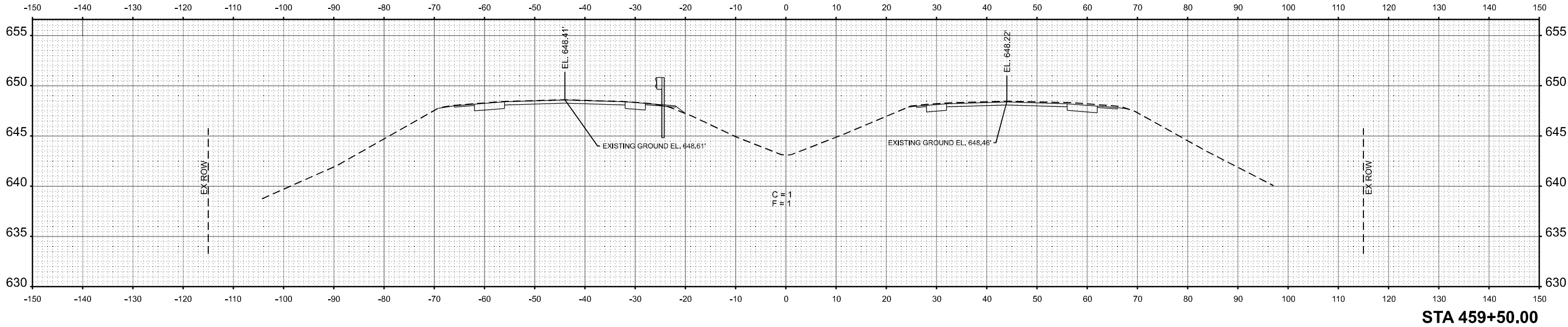
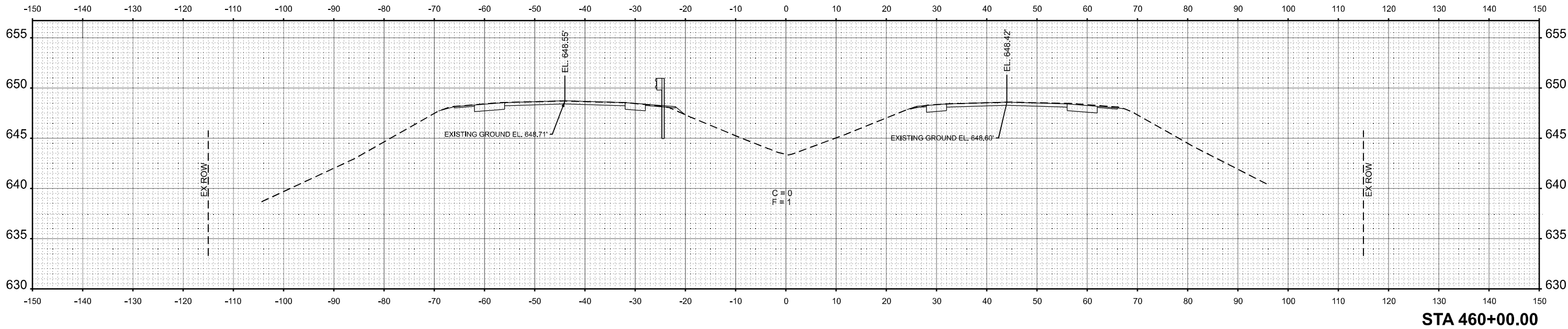
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-57

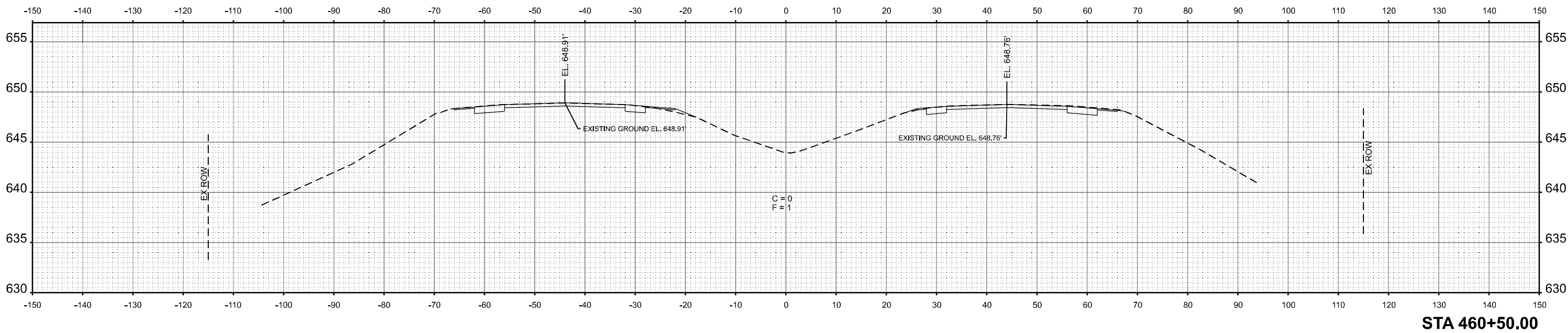
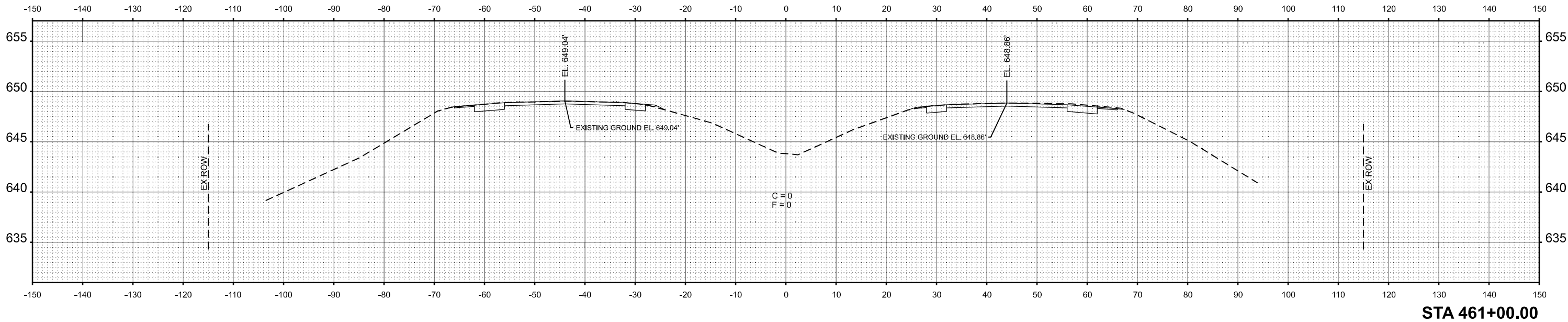
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	372
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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

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

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PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-57

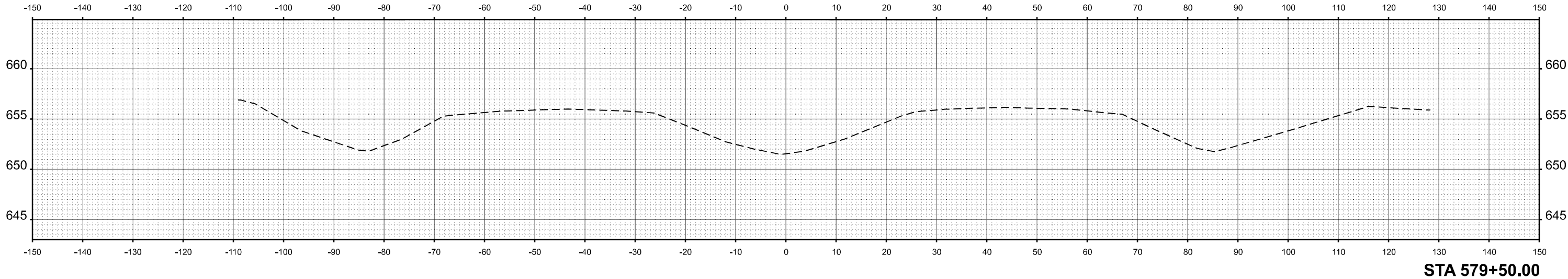
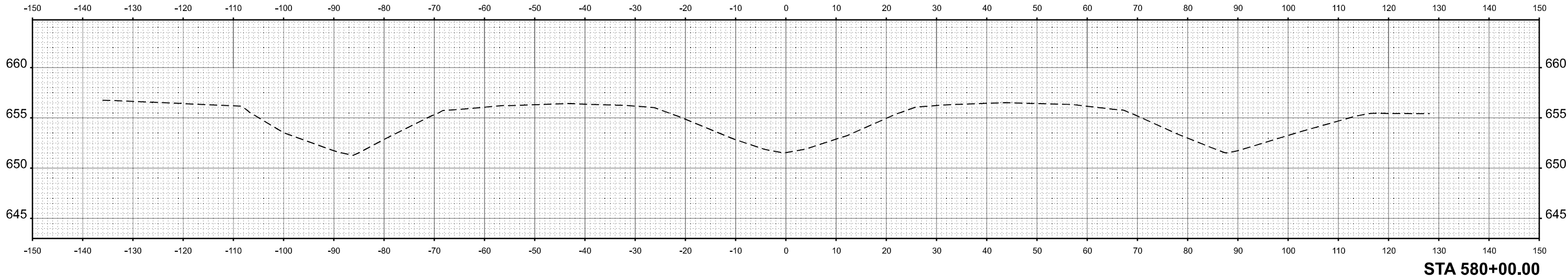
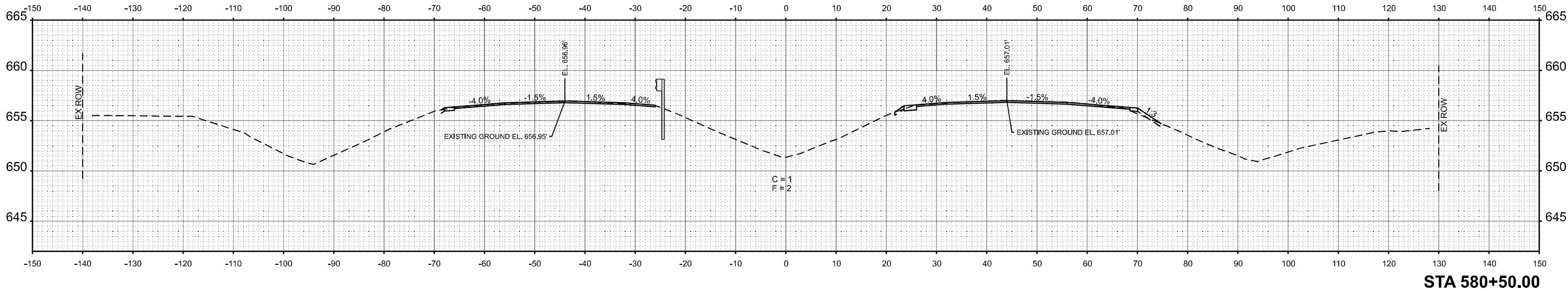
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	373
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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

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

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	DRAWN -	REVISED -
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PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

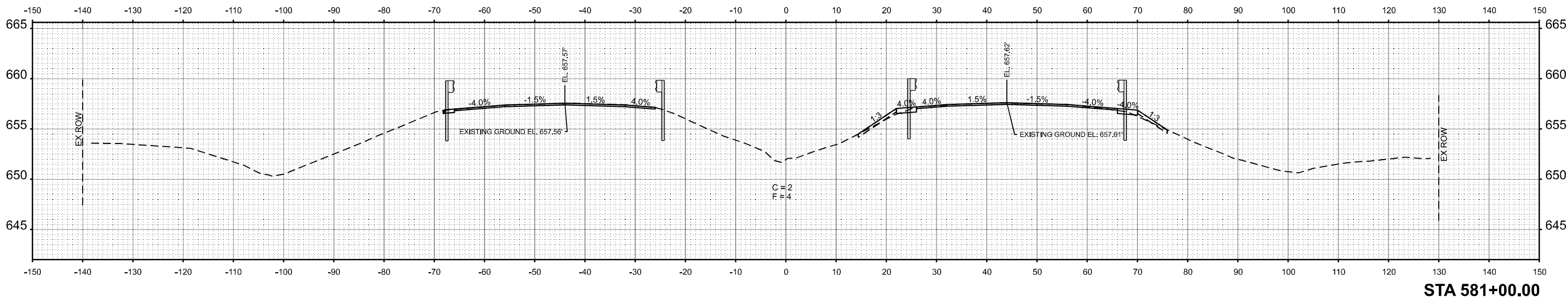
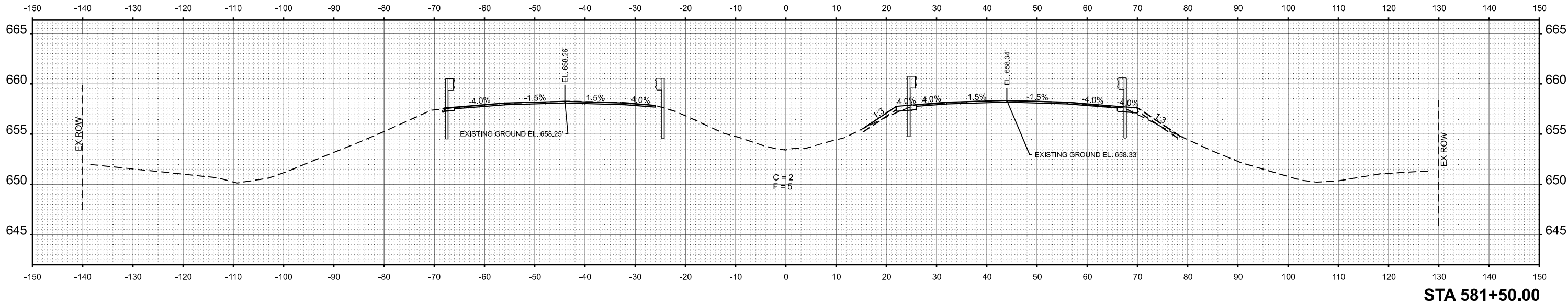
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	374
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

FINAL	SURVEYED	BY	DATE
NO.	NOTE BOOK	PLOTTED	AREAS CHECKED

ORIGINAL	SURVEYED	BY	DATE
NO.	NOTE BOOK	PLOTTED	AREAS CHECKED

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USER NAME = CHAMLIN	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

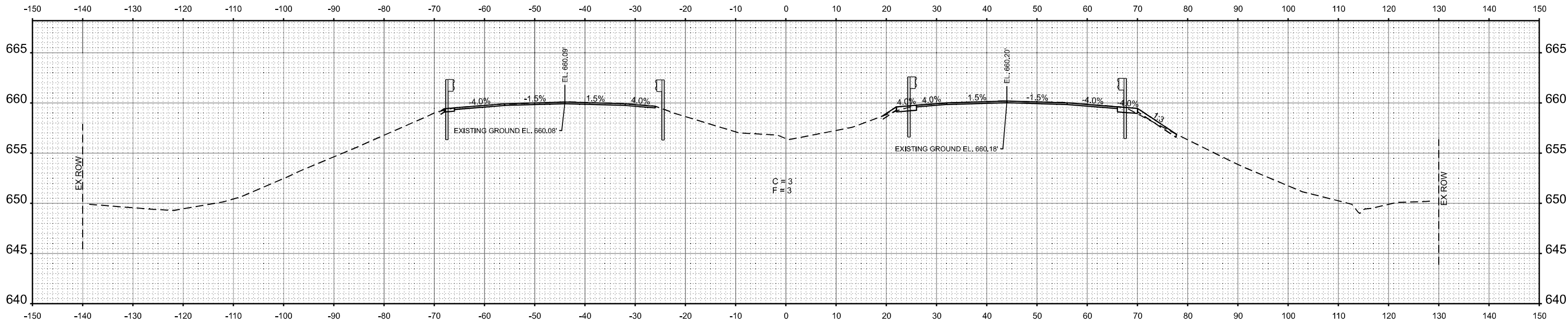
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

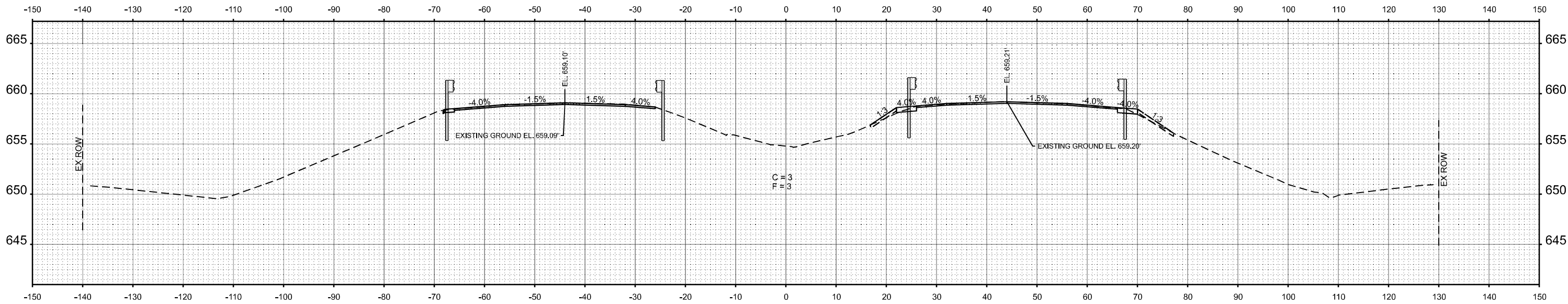
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ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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STA 582+50.00



STA 582+00.00



USER NAME = CHAMLIN	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = SSCALE\$	CHECKED -	REVISED -
PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

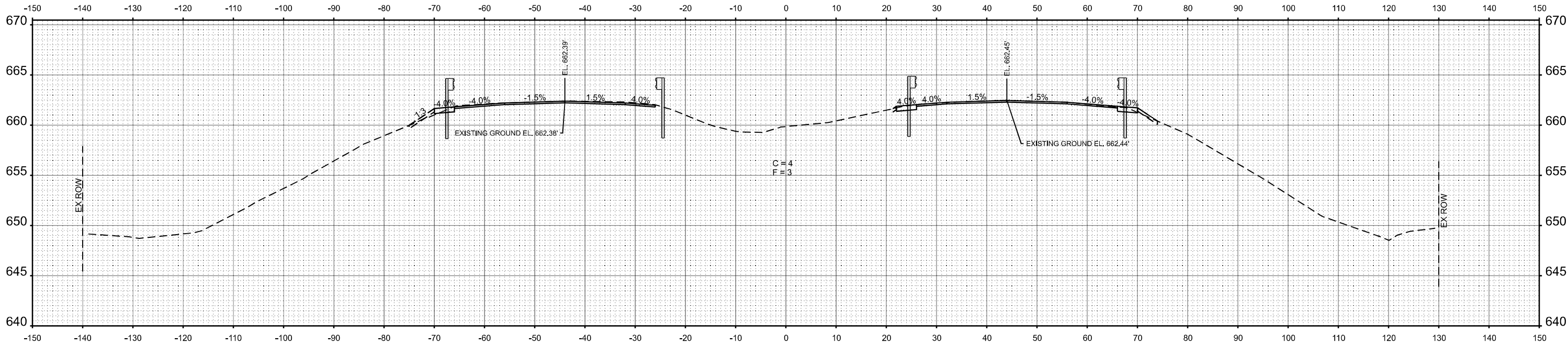
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	376
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

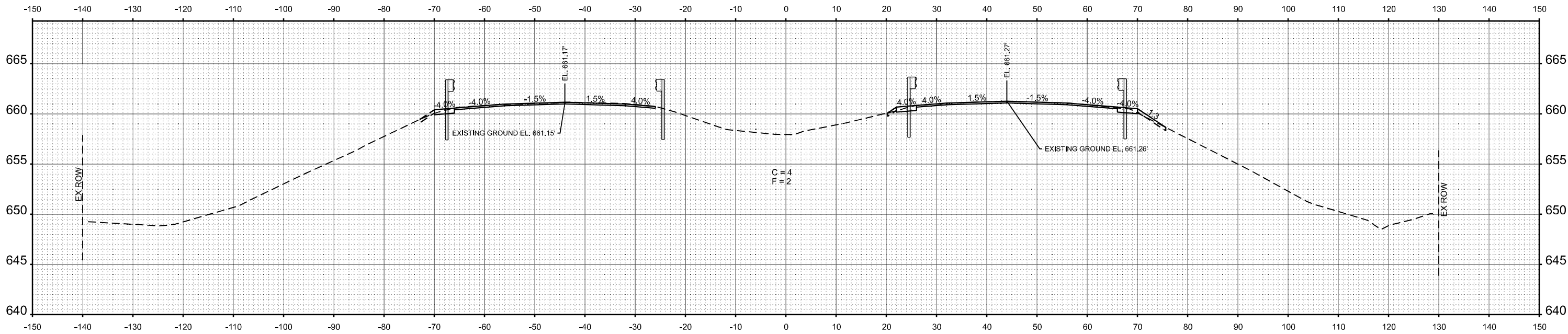
FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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

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STA 583+50.00



STA 583+00.00



USER NAME = CHAMLIN	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = SSCALE\$	CHECKED -	REVISED -
PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

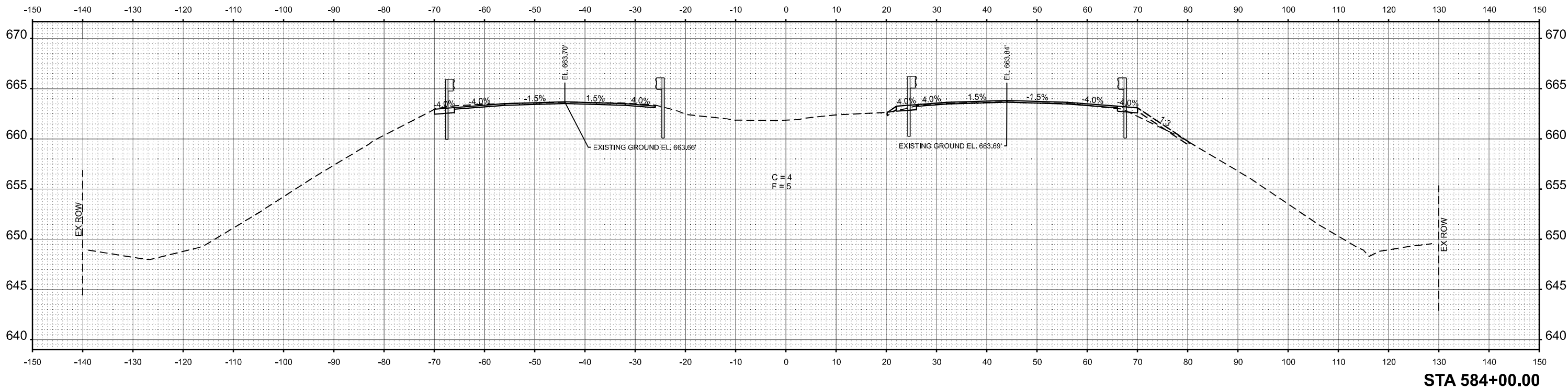
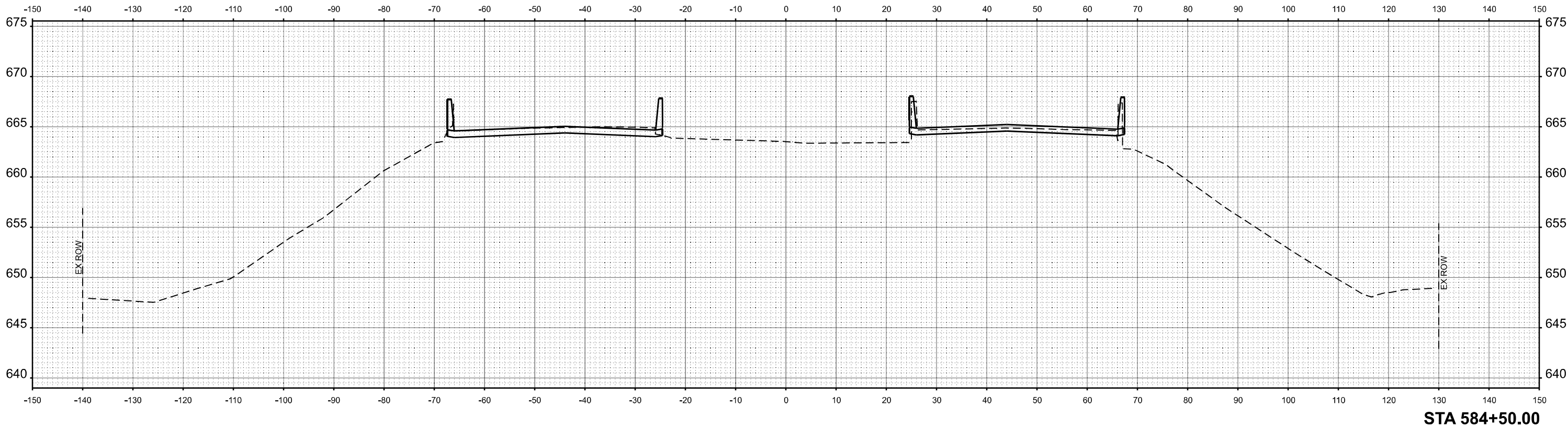
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	377
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = CHAMLIN	DESIGNED -	REVISED -
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PLOT DATE = 3/2/2026	DATE -	REVISED -

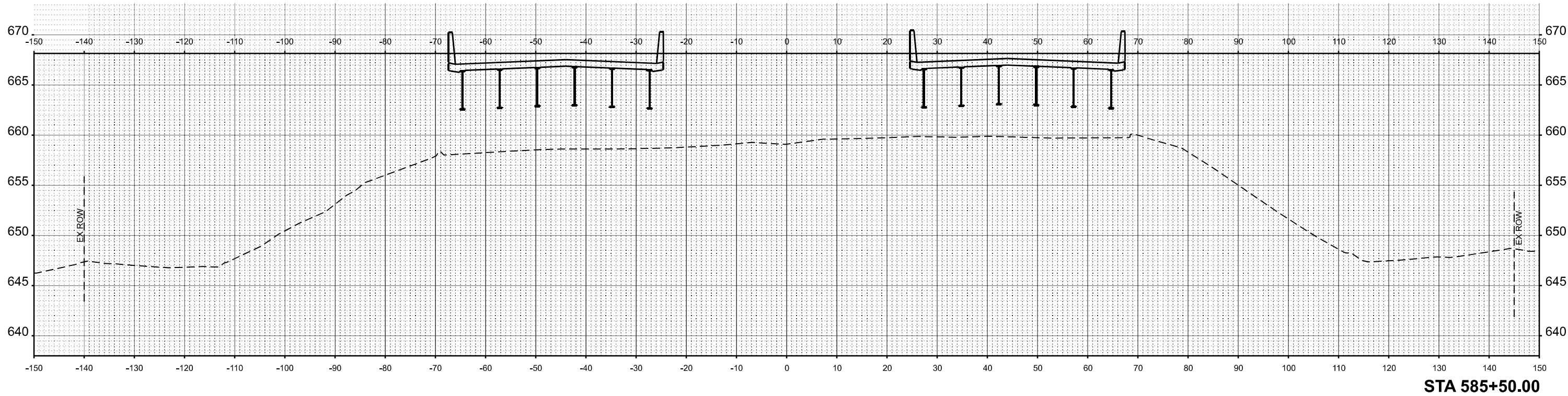
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

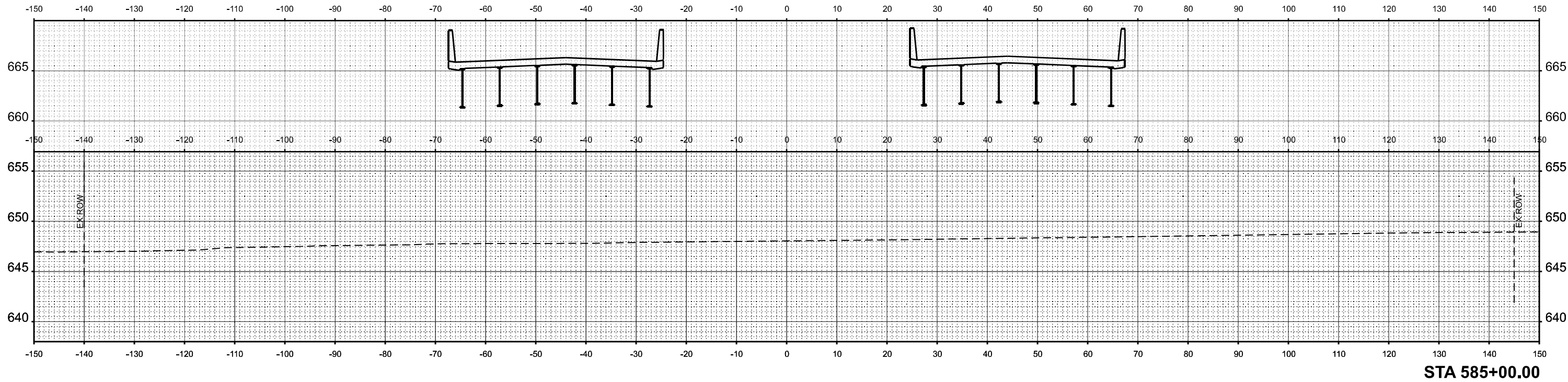
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	378
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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



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



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PLOT DATE = 3/2/2026	DATE -	REVISED -

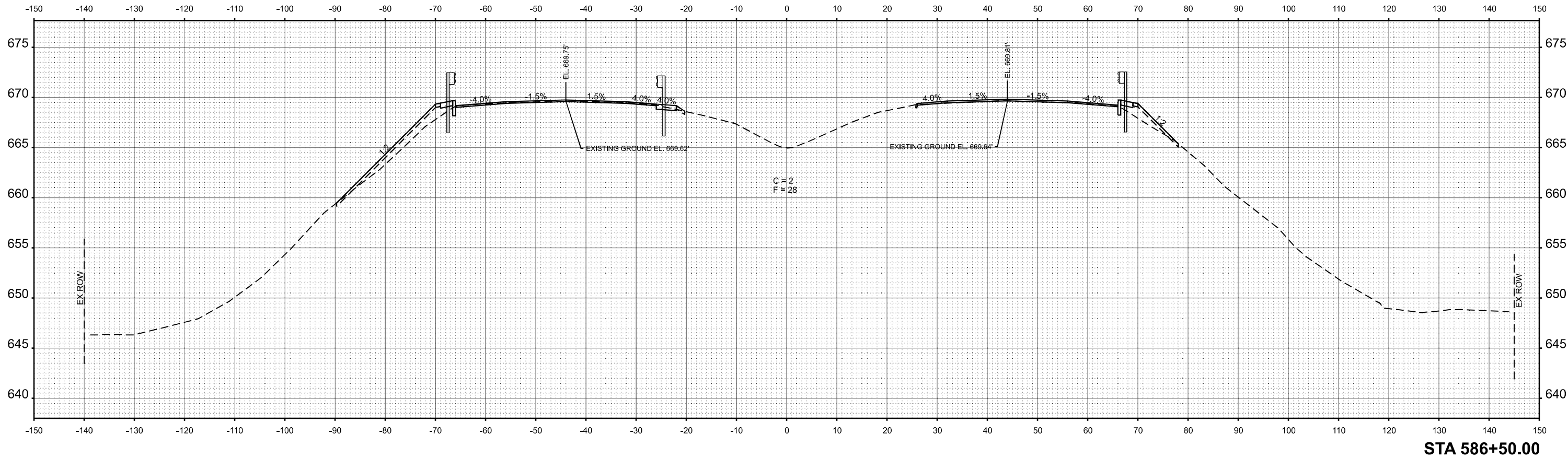
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

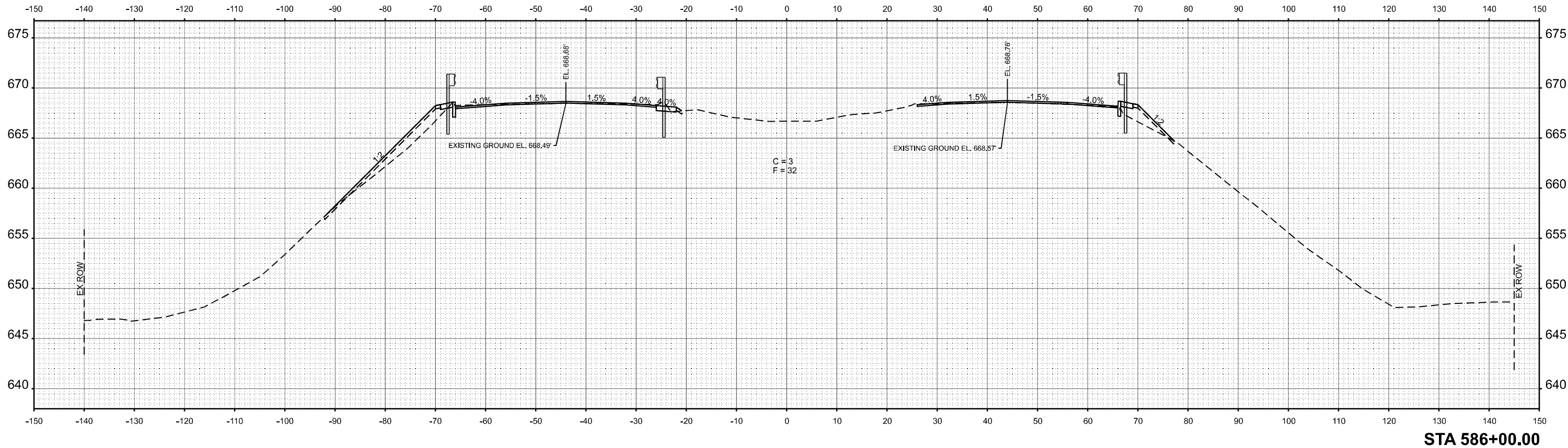
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	379
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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



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



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PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

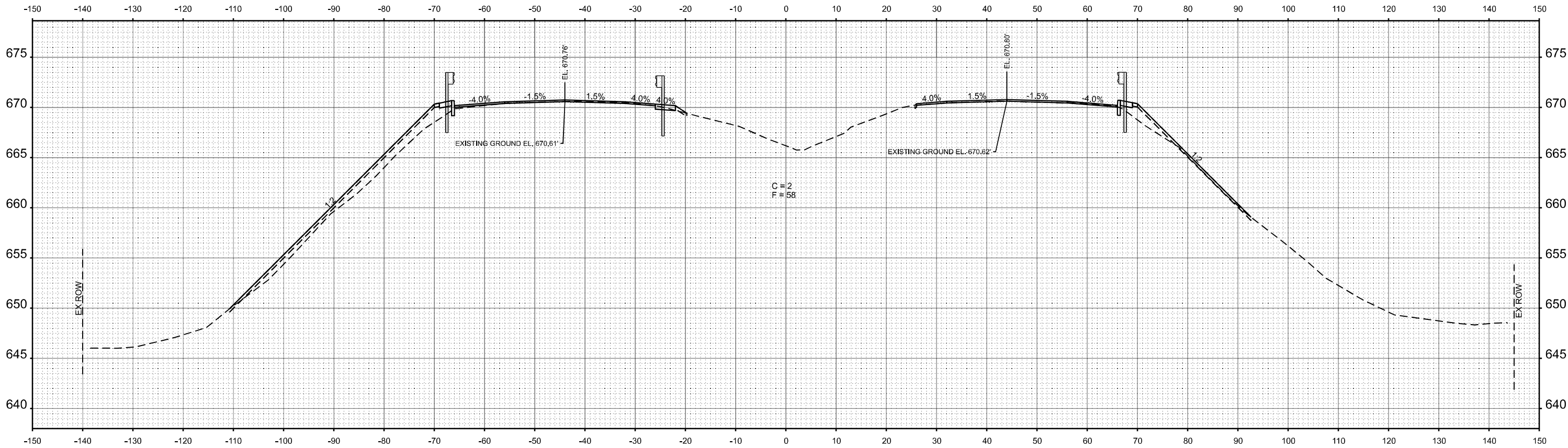
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	380
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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

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STA 587+00.00



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PLOT SCALE = SSCALE\$	CHECKED -	REVISED -
PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

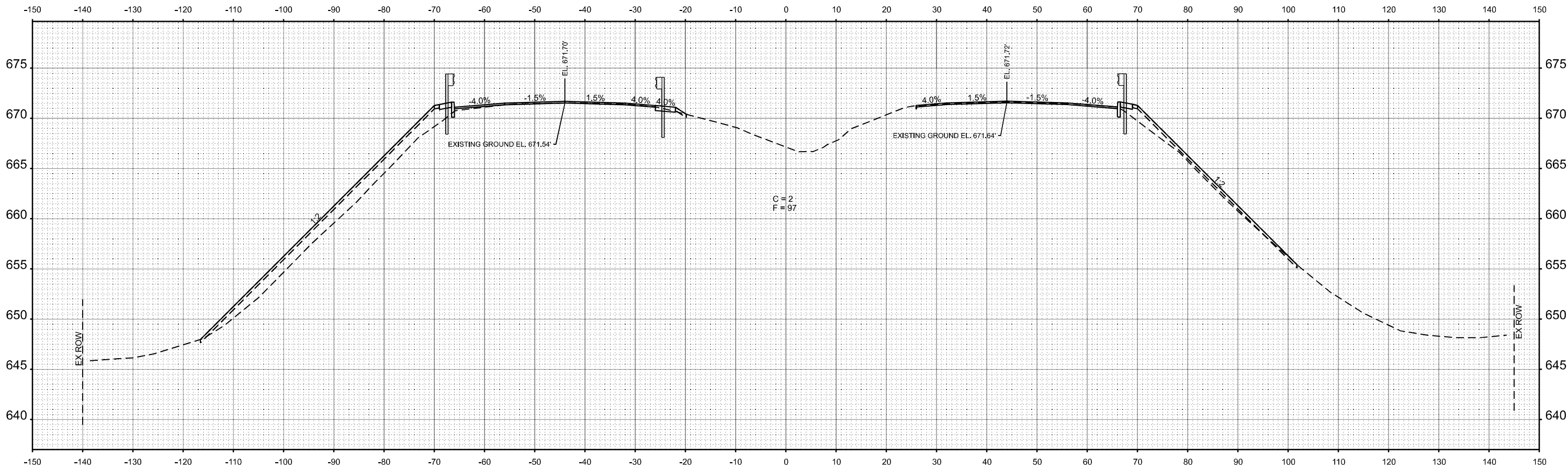
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	381
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

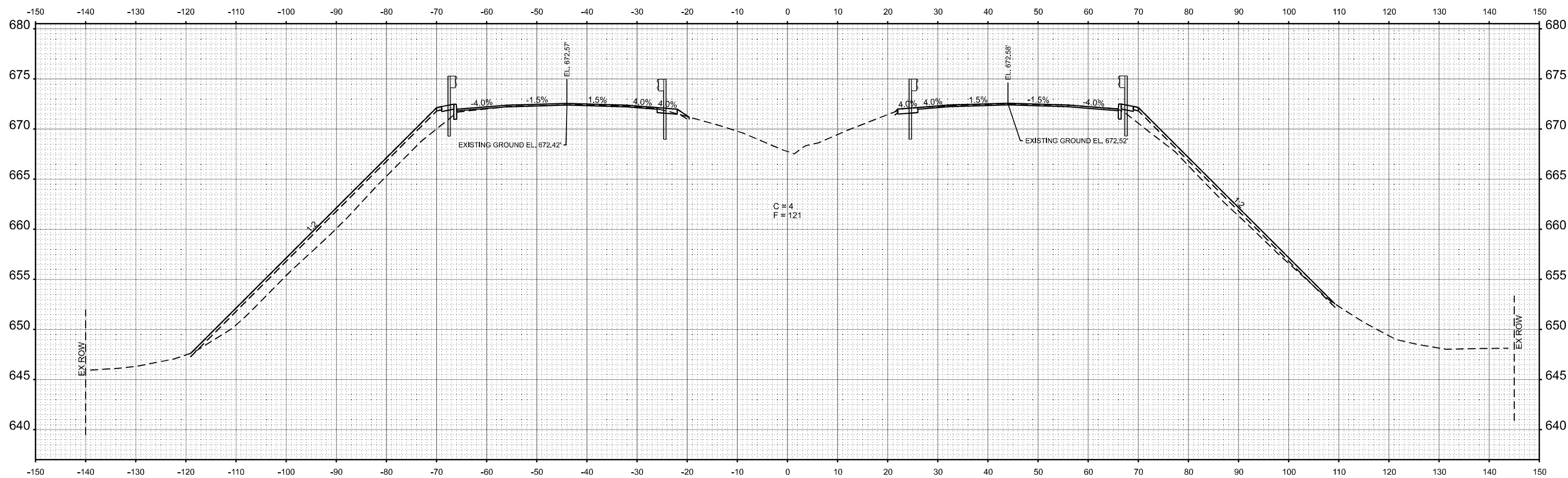
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SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	382
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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

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STA 588+00.00



USER NAME = CHAMLIN	DESIGNED -	REVISED -
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PLOT DATE = 3/2/2026	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

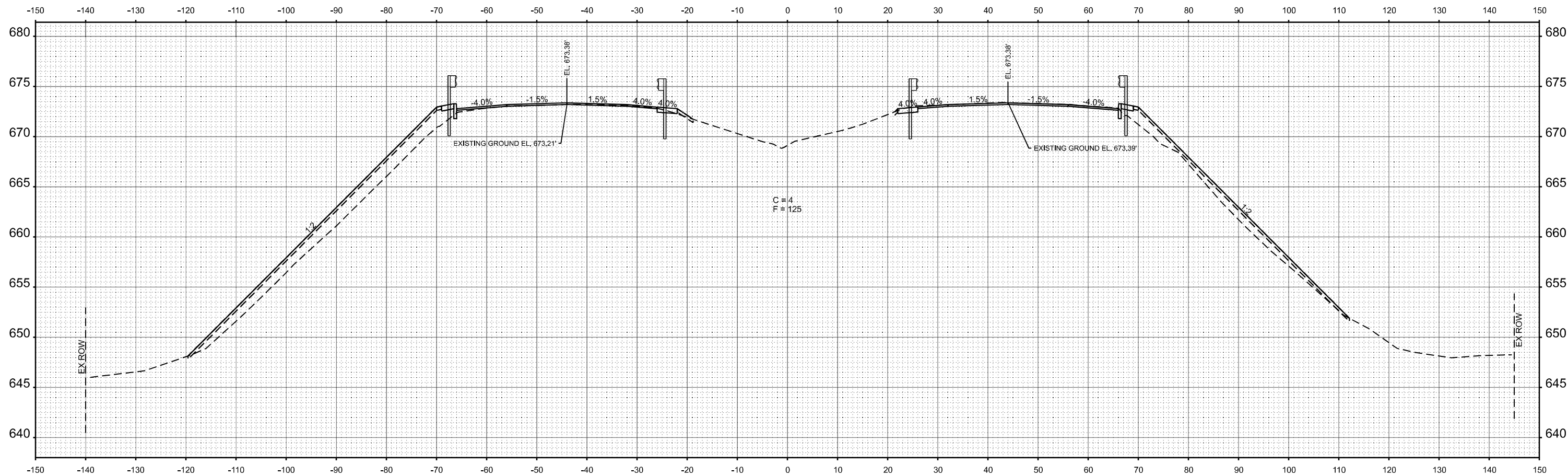
CROSS SECTIONS

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	383
		CONTRACT NO. 66M80		
ILLINOIS		FED. AID PROJECT		

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

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STA 588+50.00



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

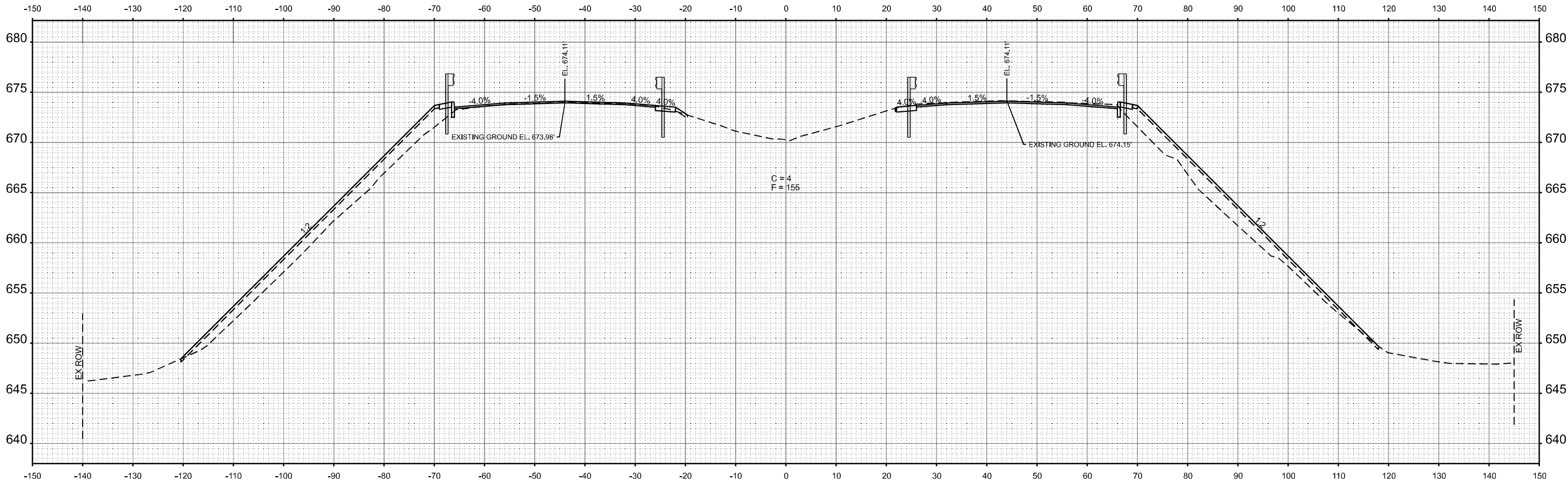
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	384
CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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

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

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STA 589+00.00



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

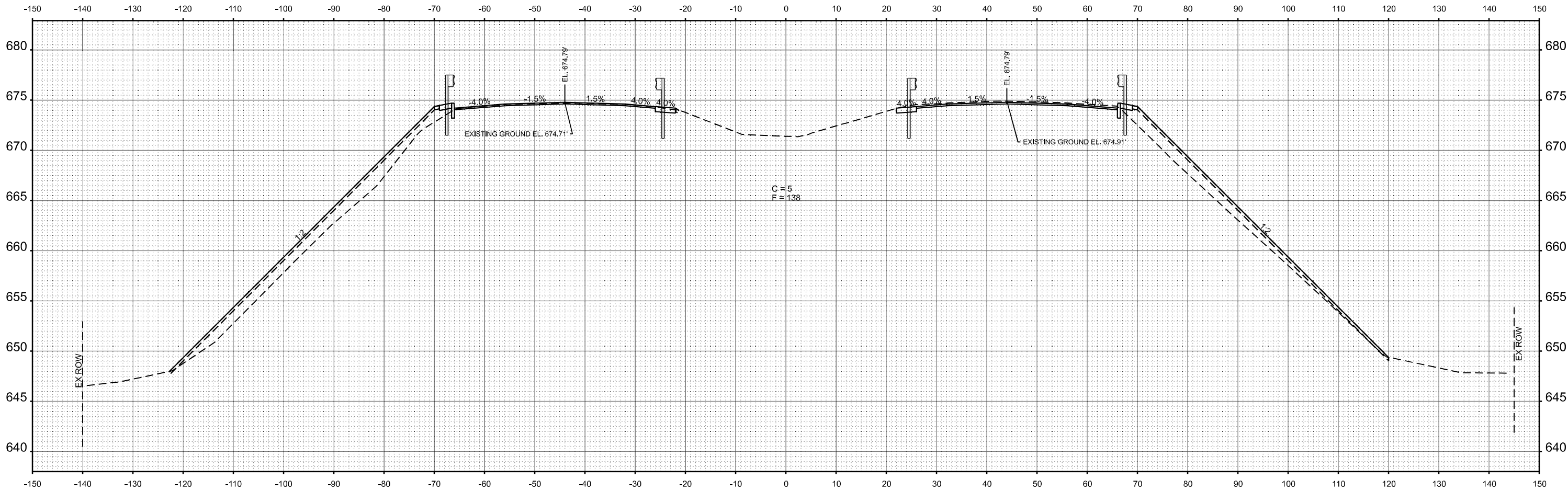
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	385
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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

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STA 589+50.00



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

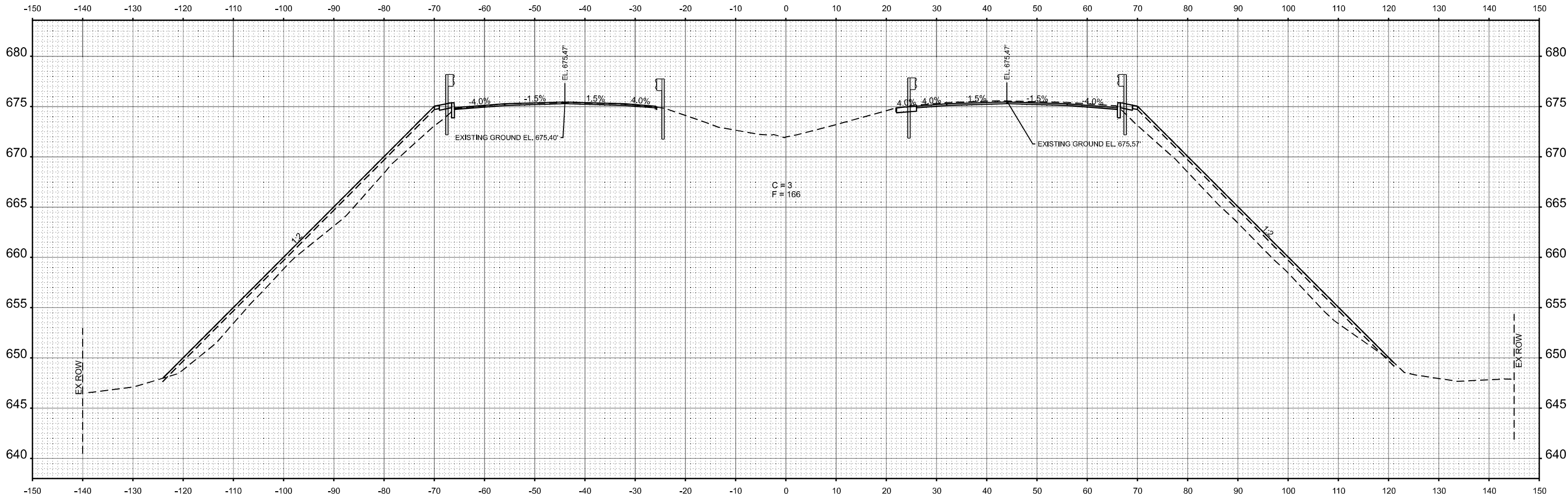
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	386
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

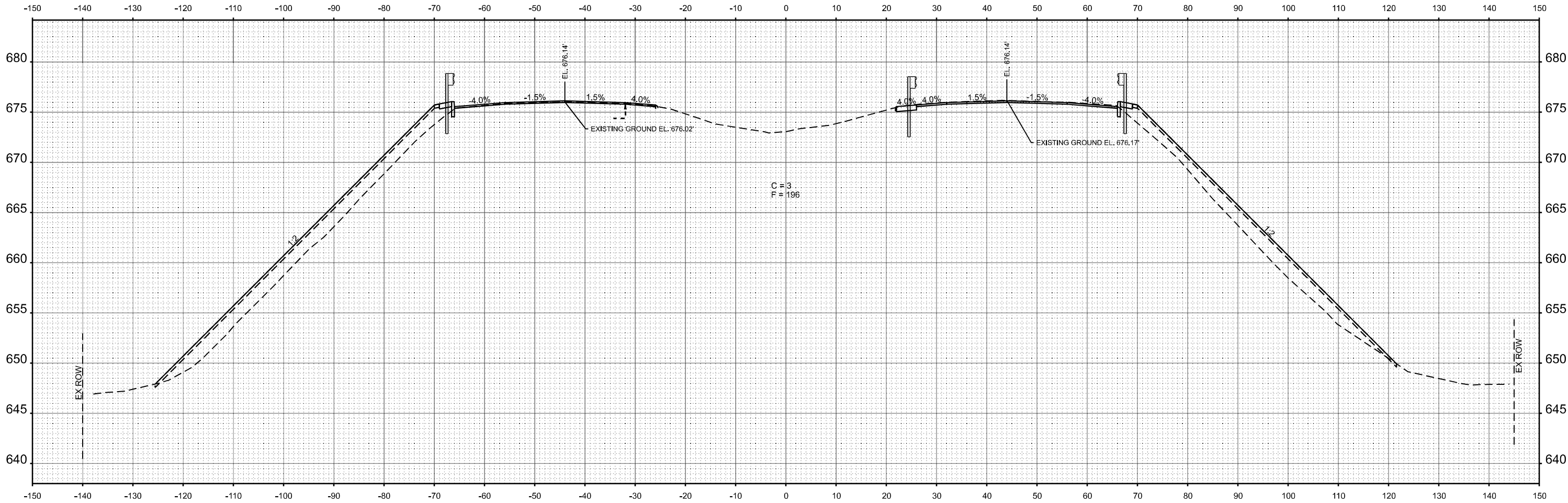
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	387
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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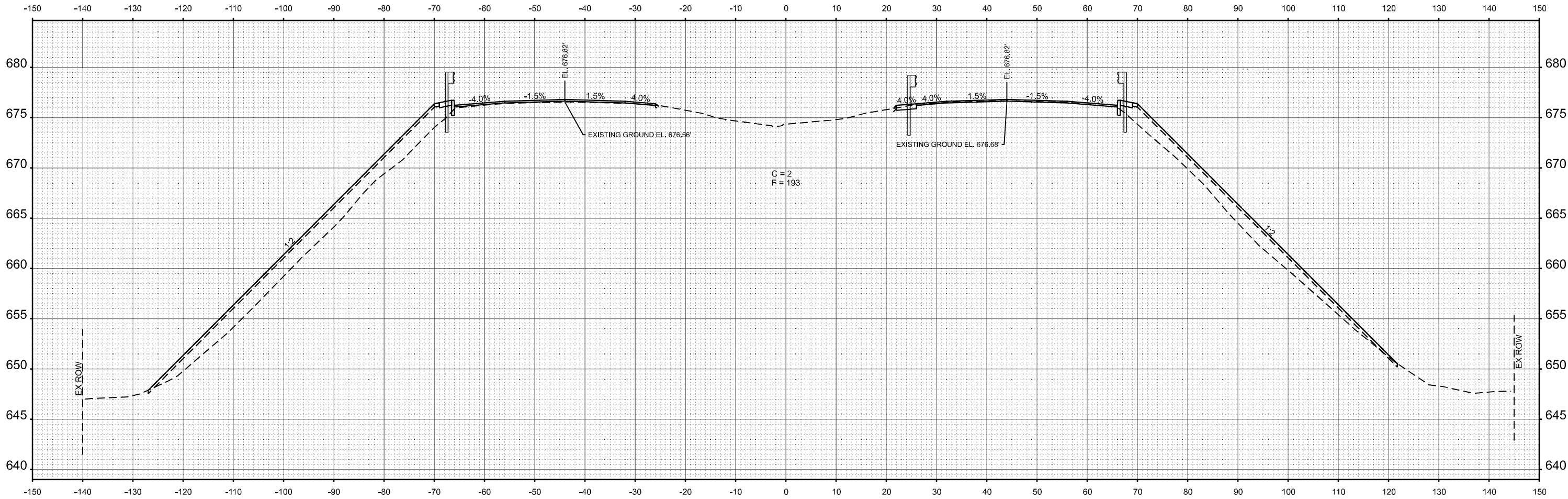
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	388
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

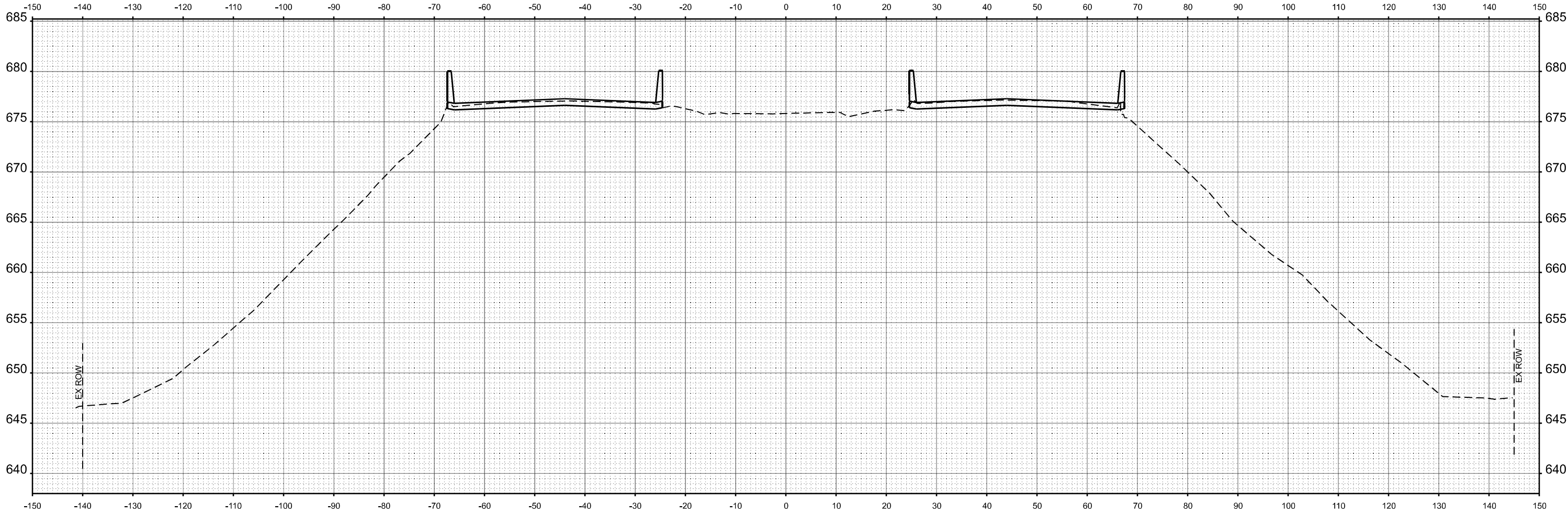
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	389
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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

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STA 591+50.00



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

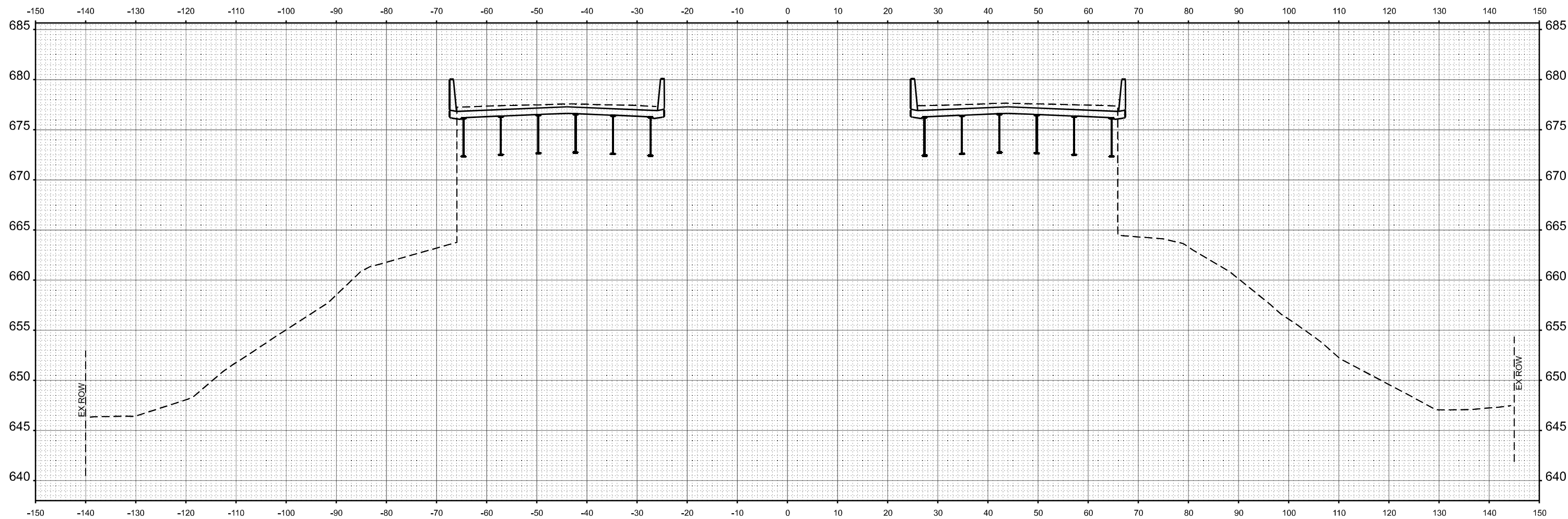
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	390
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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STA 592+00.00



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

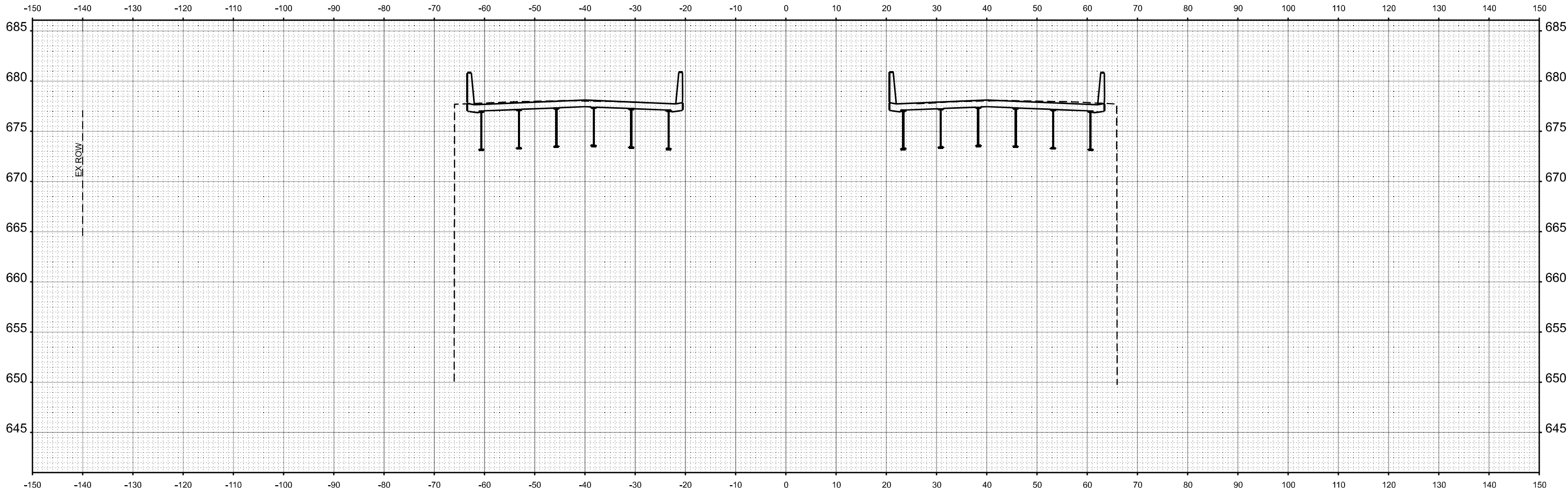
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	391
		CONTRACT NO. 66M80		
		ILLINOIS	FED. AID PROJECT	

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

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

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STA 592+50.00



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

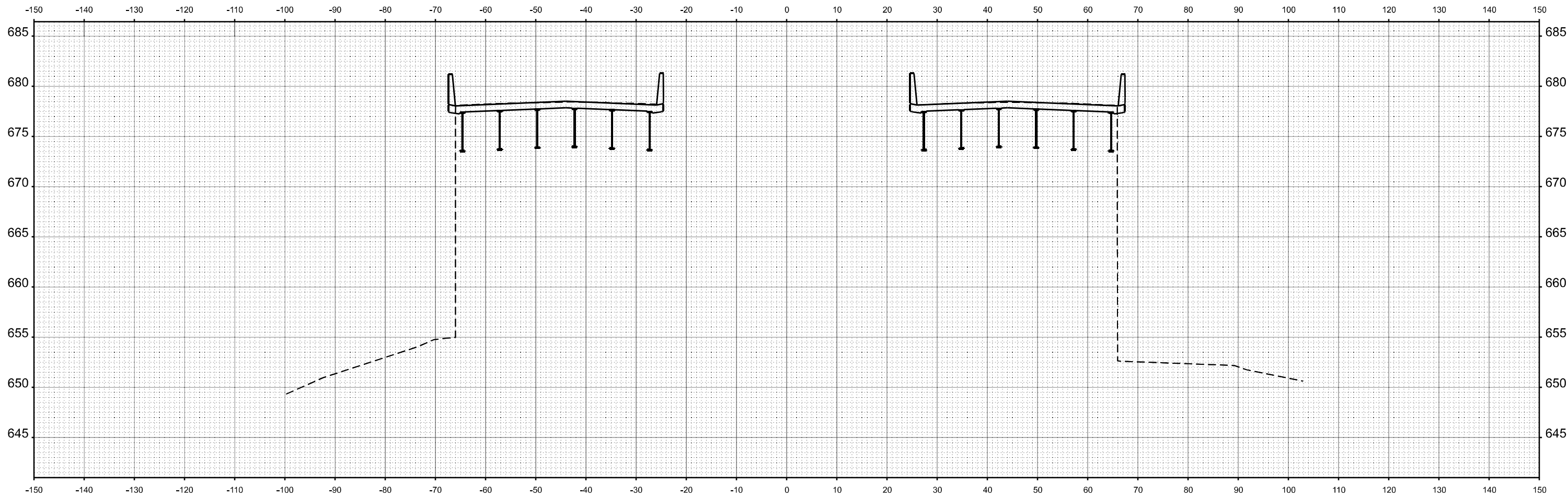
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	392
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

MODEL - EXCL 157 - B 593+00 00 (Sheet)



STA 593+00.00



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

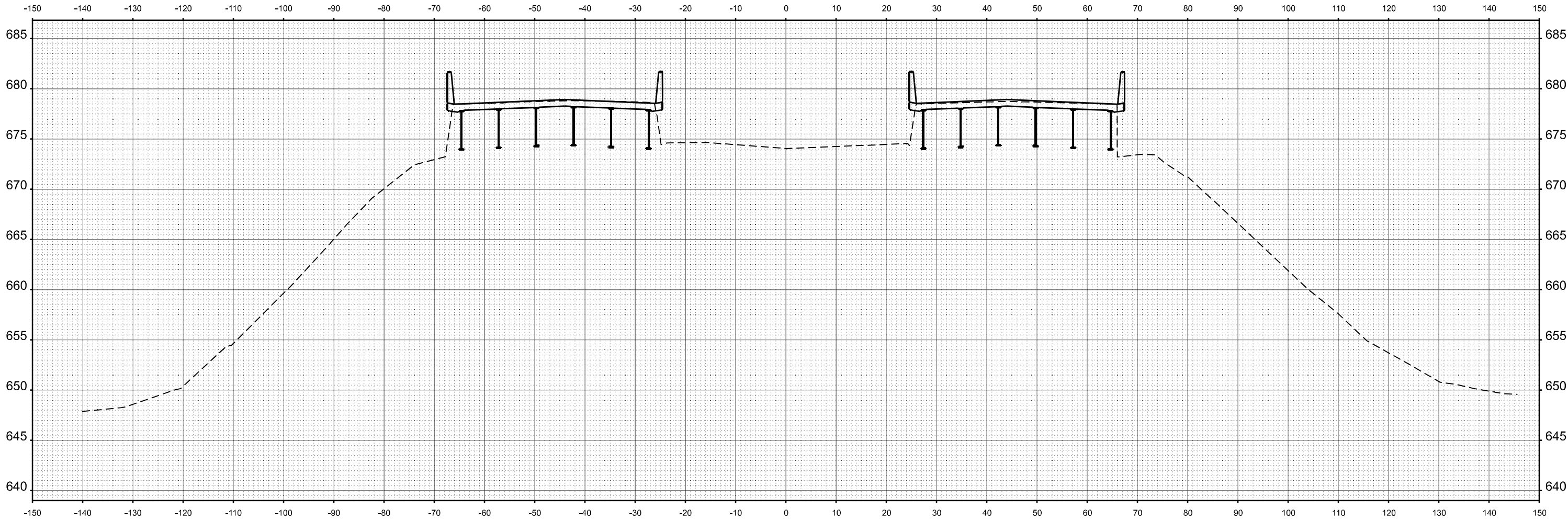
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	393
		CONTRACT NO. 66M80		
ILLINOIS		FED. AID PROJECT		

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

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

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PLOT DATE = 3/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-4,38-5)BR,D,CR	IROQUOIS	437	394
CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

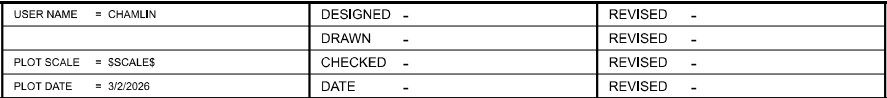
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	PLOTTED _____		
NOTE BOOK	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

The diagram illustrates a proposed drainage canal cross-section. The horizontal axis represents stationing from -150 to 150, and the vertical axis represents elevation in feet from 640 to 685. The existing ground is shown as a dashed line, and the proposed canal bed is shown as a solid line.

Key Features:

- Manholes:** Three manholes are located at stations approximately -70, -25, and 70. Their elevations are labeled as EL 679.16', EL 679.34', and EL 679.34' respectively.
- Slopes:** The canal bed slopes are specified as -4.0%, -1.5%, and 1.5% across its segments.
- Ground Elevation:** Two points on the existing ground are labeled: "EXISTING GROUND EL. 679.16'" near the first manhole and "EXISTING GROUND EL. 679.09'" near the third manhole.
- Channel Dimensions:** A note indicates $C = 1$ and $F = 175$.
- Slopes:** The side slopes of the canal are indicated as 1:2.

STA 594+00.00



CROSS SECTIONS

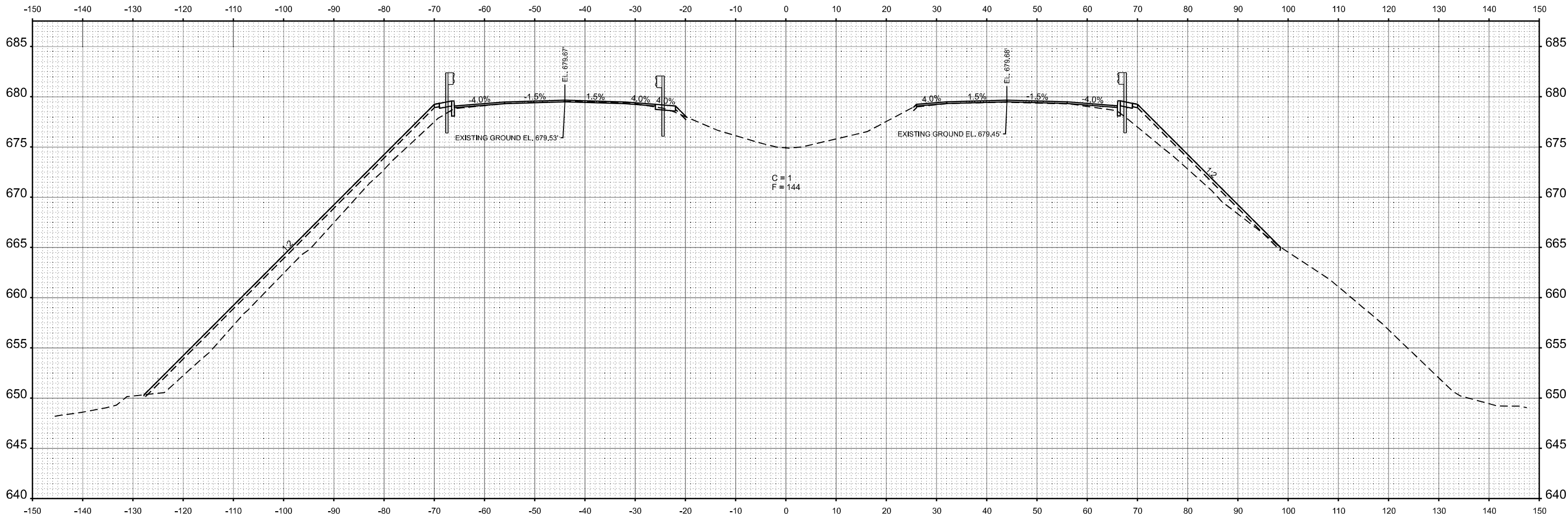
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57	(38-4,38-5)BR,D,CR	IROQUOIS	437	395
		CONTRACT NO. 66M80		
ILLINOIS		FED. AID PROJECT		

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

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STA 594+50.00



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	DRAWN -	REVISED -
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STATE OF ILLINOIS
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CROSS SECTIONS

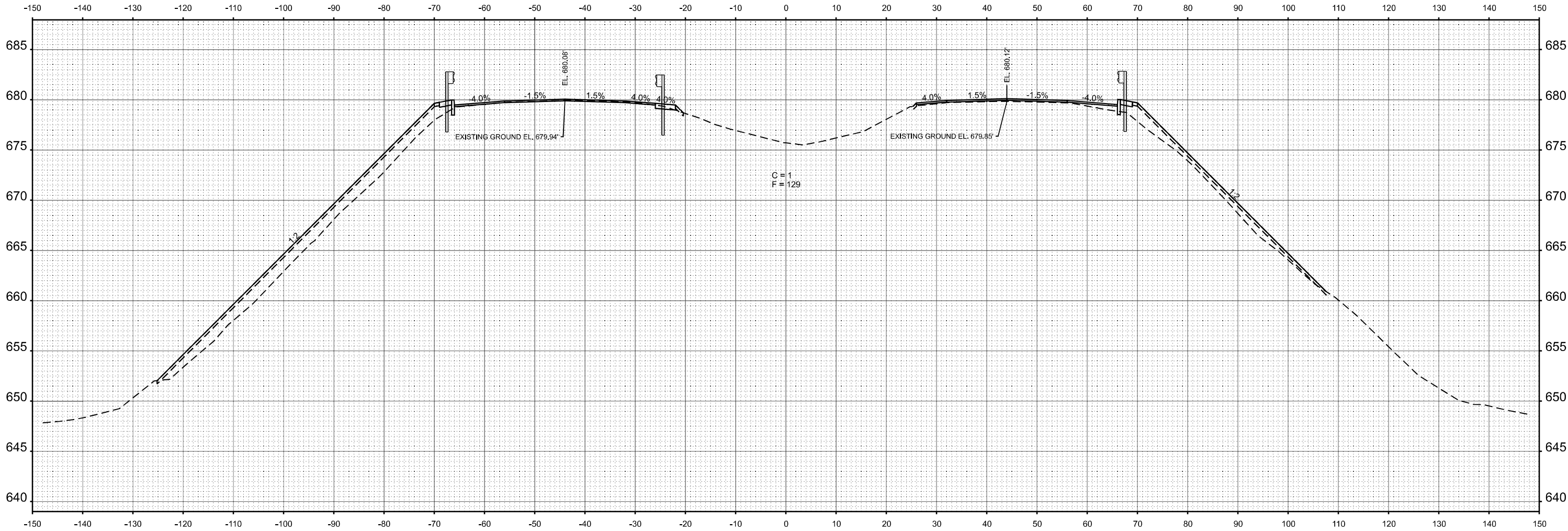
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CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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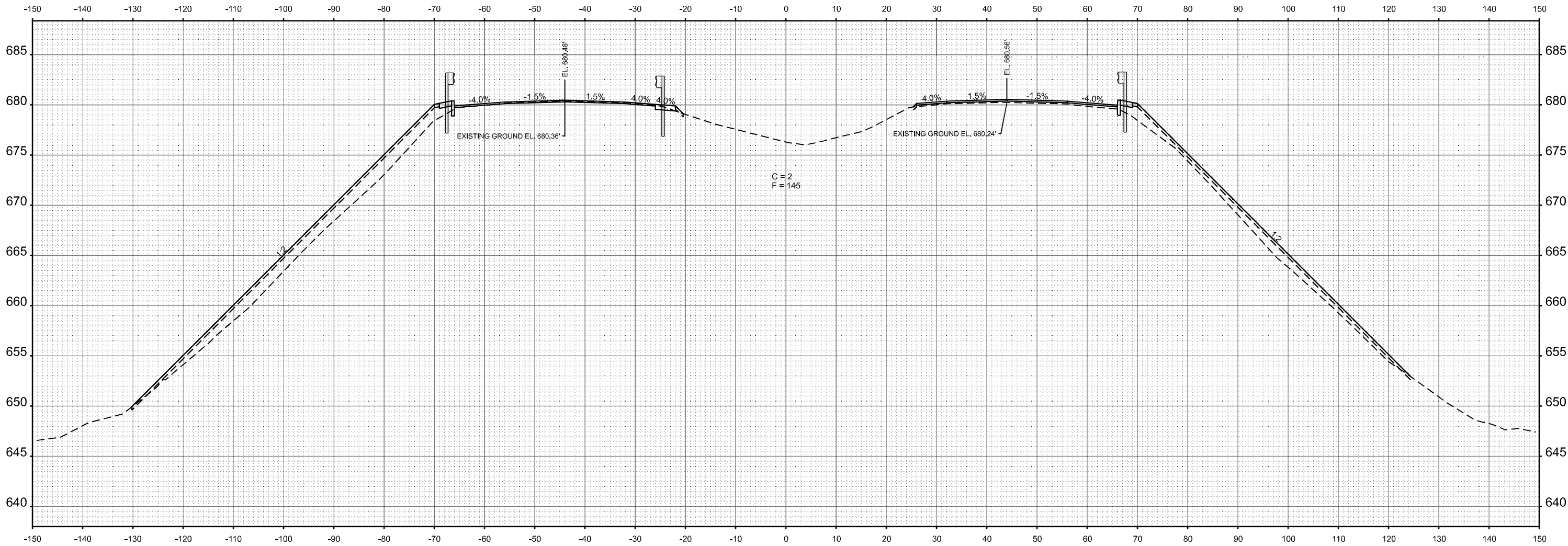
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

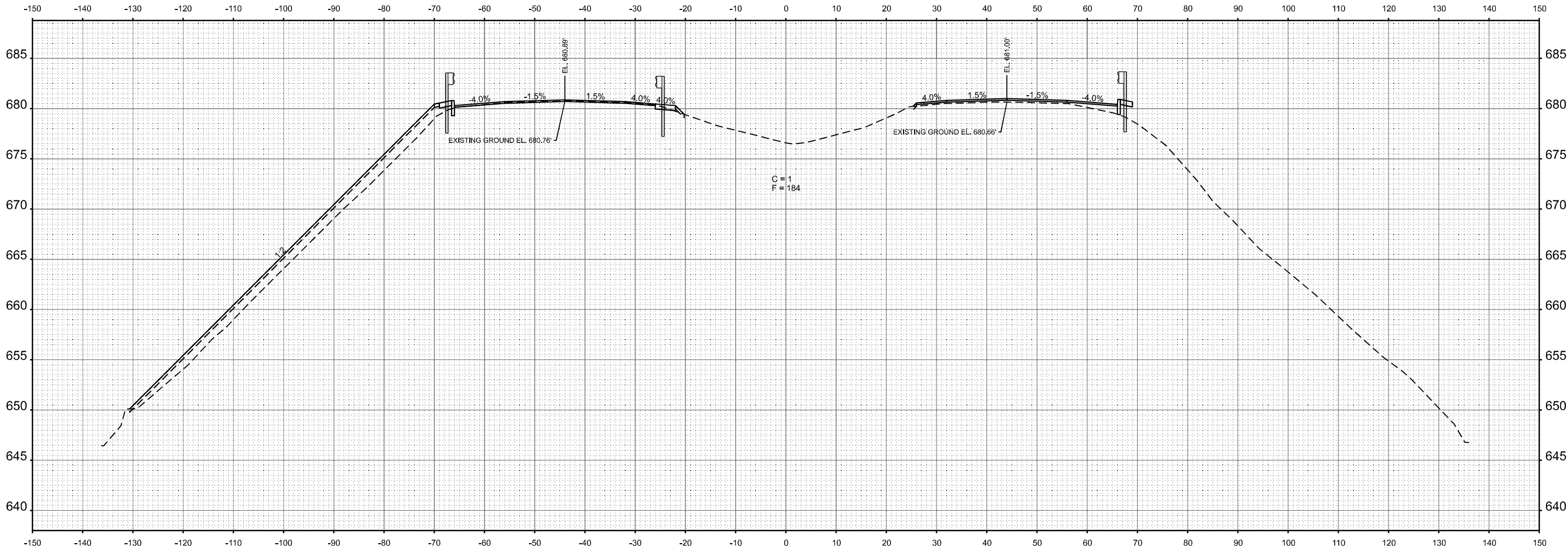
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CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

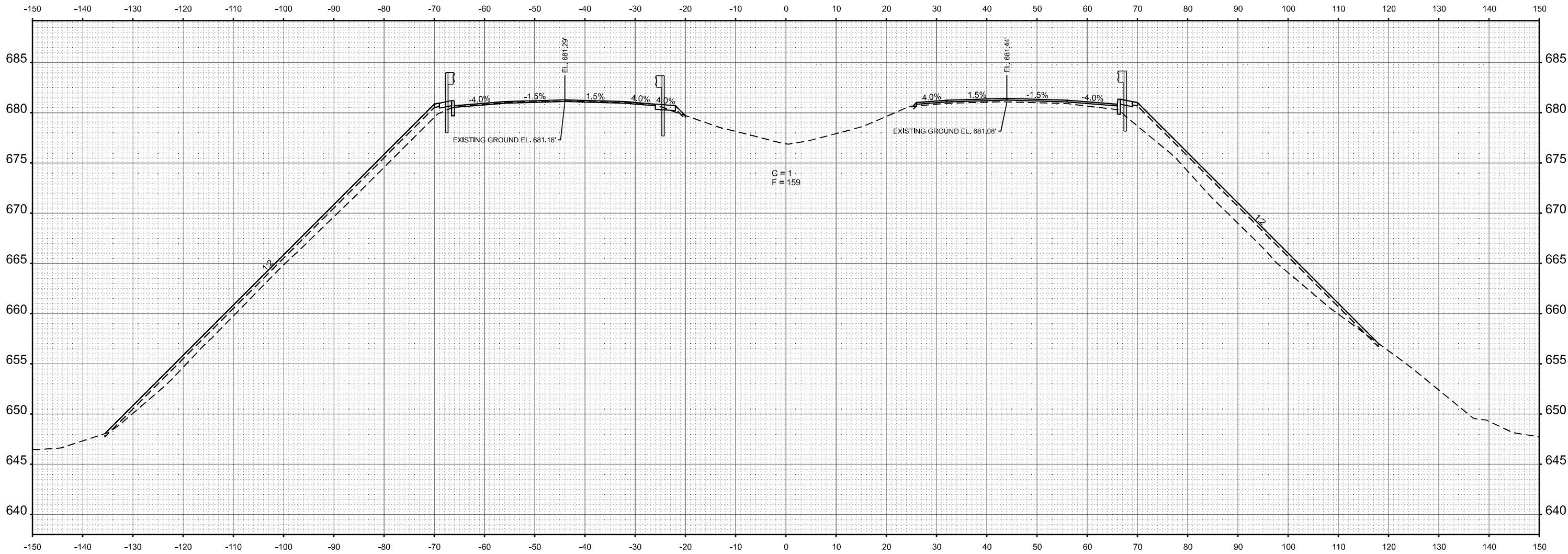
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66M80				
ILLINOIS		FED. AID PROJECT		

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66M80				
ILLINOIS FED. AID PROJECT				