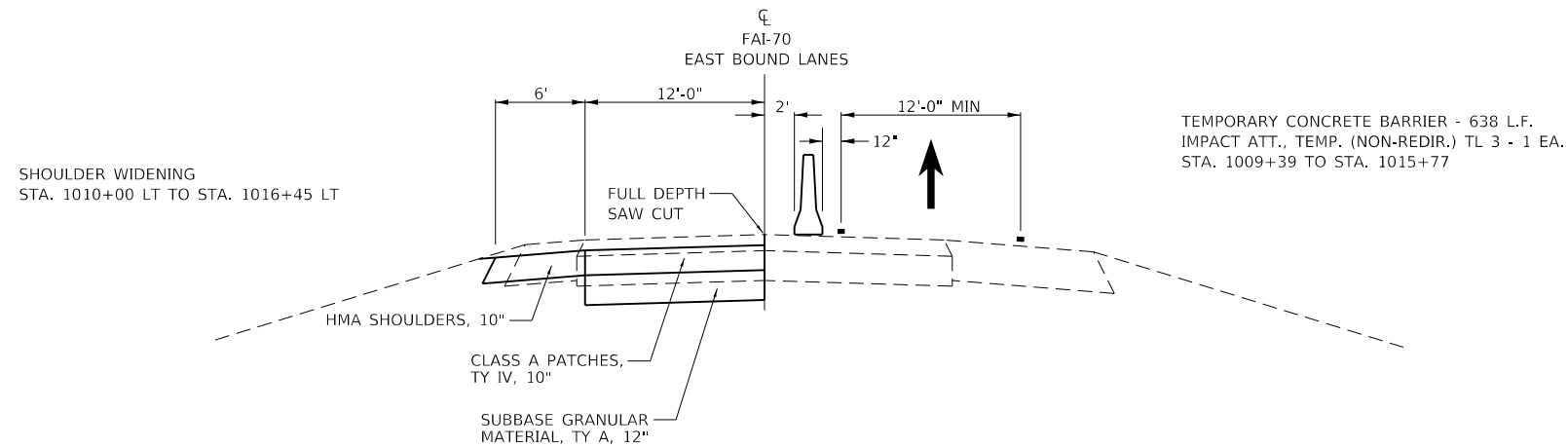


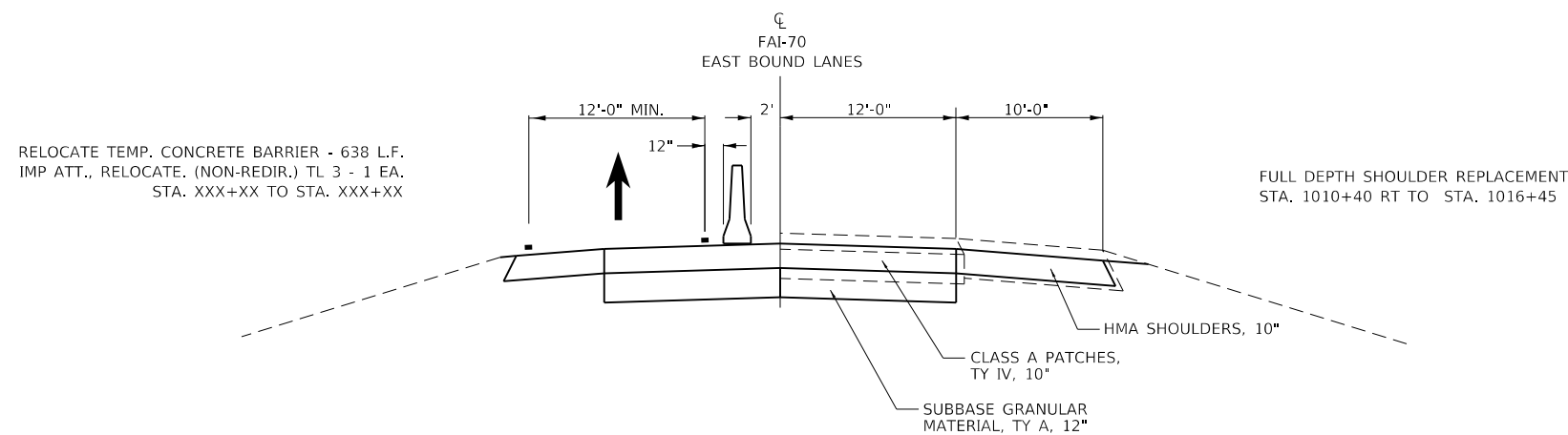
EXISTING TYPICAL SECTION

FAI-70 EB STA. 1013+47
AT STAUNTON RD.



STAGE 1 TYPICAL SECTION

FAI-70 EB STA. 1013+47
AT STAUNTON RD.



STAGE 2 TYPICAL SECTION

FAI-70 EB STA. 1013+47
AT STAUNTON RD.

NOTE: EXISTING PAVEMENT THICKNESSES SHALL BE CONSIDERED APPROXIMATE; ESTIMATIONS MADE FROM NEAREST PAVEMENT CORE SAMPLES.

TRAFFIC CONTROL STANDARD 701402 SHALL BE FOLLOWED IN THE PLACEMENT OF TEMPORARY CONCRETE BARRIER.

BEFORE THE CHANGING FROM STAGE 1 TO STAGE 2, 600:1 APPROACH AND DEPARTURE TRANSITIONS SHALL BE MILLED IN THE EXISTING PAVEMENT OUTSIDE OF THE PATCHES BEFORE OPENING UP TO TRAFFIC.

TYPICAL SECTIONS SHOWN ON THIS SHEET SHALL BE USED FOR THE SOLE PURPOSE OF ERECTING TRAFFIC CONTROL AND PROTECTION.

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HMG HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
(618) 526-9611
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED - M. O'BRIEN	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - M. O'BRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING STAGING
TYPICAL SECTIONS**

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

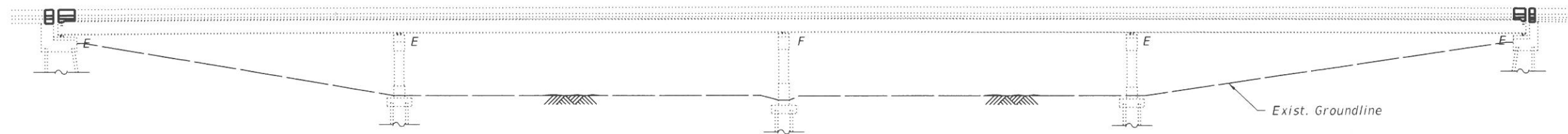
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70	60-(10-11)RS-1	MADISON	209	85
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

SCOPE OF WORK

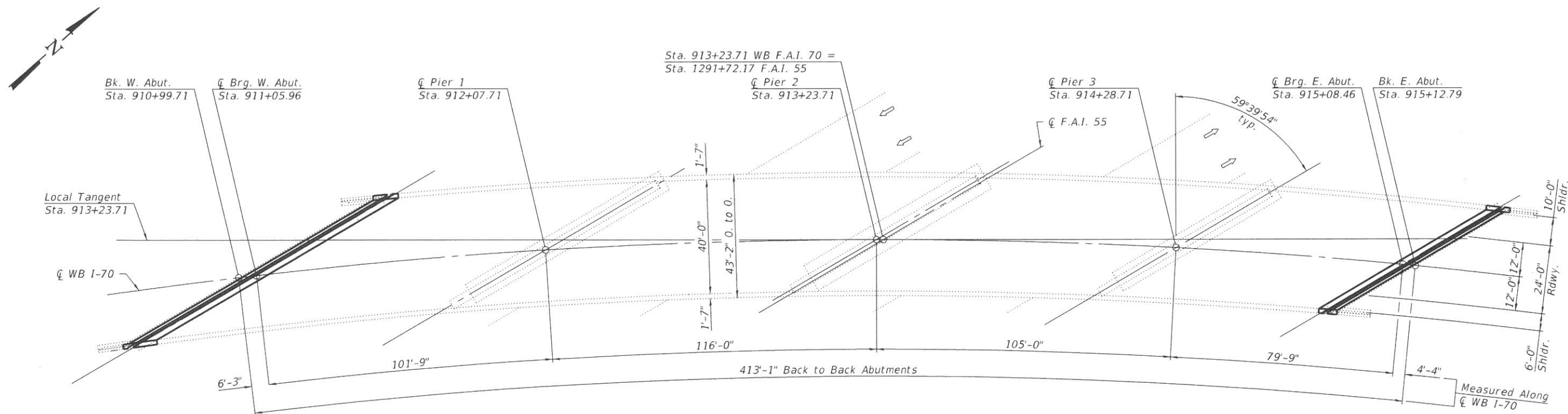
1. Replace expansion joints.
2. Partial Depth Deck Patching
3. Seal the deck and parapets

INDEX OF SHEETS

1. General Plan
2. General Data
3. Deck Patching Details
4. Removal Details
- 5-6. Superstructure Repair Details
7. Sliding Plate Details
8. West Abutment Details
9. East Abutment Details
10. Abutment Details



ELEVATION



PLAN



Eric Lagemann 6/17/2020
 License Expires 11/30/2020 Date

GENERAL PLAN
I-70 (WB) OVER I-55
F.A.I. ROUTE 70
SECTION 60-(10-11)RS-1
MADISON COUNTY
STATION 913+23.71
STRUCTURE NO. 060-0022

MODEL: G:\FEI\jobs\2019\19-1402 PTB 190-32 VARIOUS PHASE I & II DB - HMGW0-02\CADD\CADD Sheets\0600022-76H84-001-GPE.dgn



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PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	86
CONTRACT NO. 76H84				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
 As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.
 Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
 Plan dimensions and details relative to 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.
 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. Cost included with Concrete Removal.
 The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.
 Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.
 A Concrete Sealer shall be applied to the surfaces of the deck and parapets. See Special Provisions for Bridge Deck Concrete Sealer.
 New pavement markings shall be temporarily covered prior to application of the deck surface treatment, to prevent the material from being applied over the markings. The temporary covering shall be removed after its application of the deck surface treatment and prior to opening to traffic. Cost included with Concrete Sealer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	26.5	---	26.5
Concrete Superstructure	Cu. Yd.	25.2	---	25.2
Reinforcement Bars, Epoxy Coated	Pound	3,390	---	3,390
Concrete Sealer	Sq. Ft.	19,445	---	19,445
Deck Slab Repair (Partial)	Sq. Yd.	5.8	---	5.8
Modular Expansion Joint, 6 in.	Foot	179.0	---	179.0

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	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - T.S. Friederich	REVISED -
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -

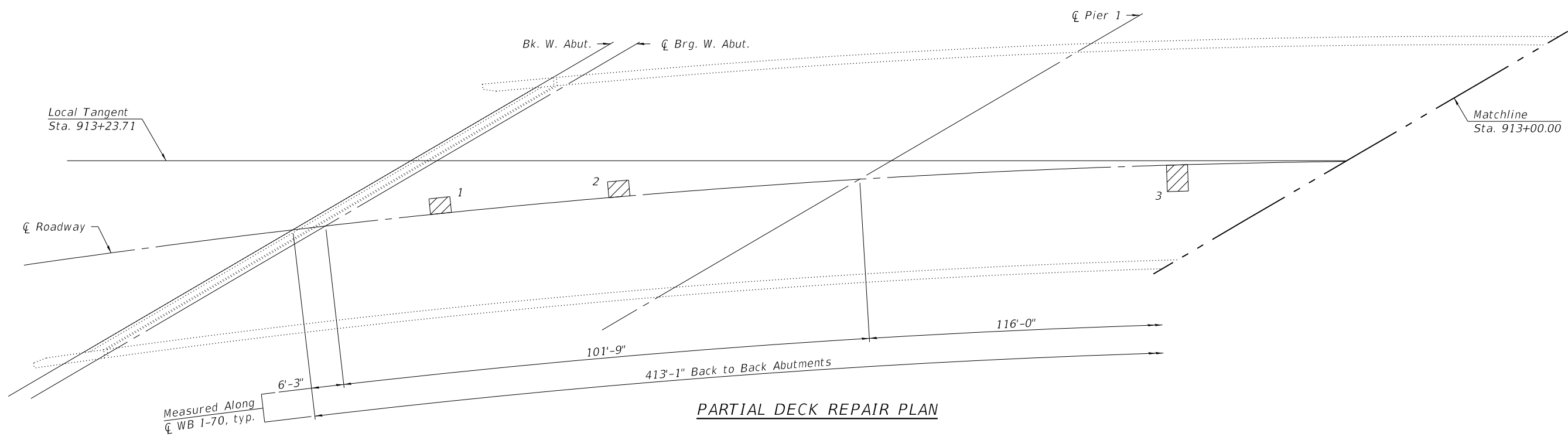
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
 STRUCTURE NO. 060-0022**

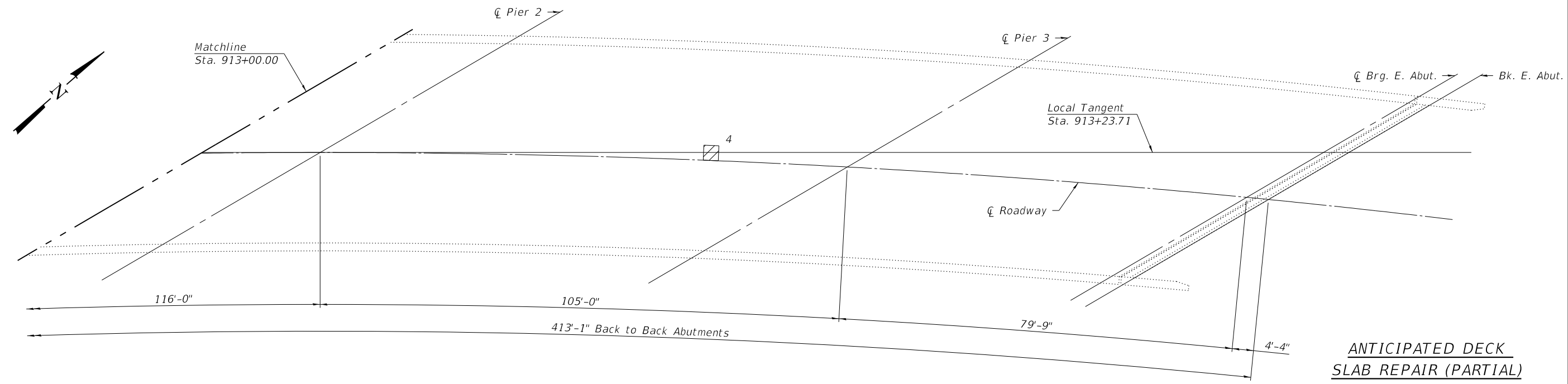
SHEET 2 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	87
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

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PARTIAL DECK REPAIR PLAN



PARTIAL DECK REPAIR PLAN

LEGEND

Deck Slab Repair (Partial)

ANTICIPATED DECK SLAB REPAIR (PARTIAL)

Patch No.	Width (ft.)	Length (ft.)	Quantity (Sq. Yd.)
1	3	4	1.3
2	3	4	1.3
3	5	4	2.2
4	3	3	1.0
			Total = 5.8

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Partial)	Sq. Yd.	5.8

Note:
 Quantities and repair areas shown are estimated. Actual areas to be determined by the Resident Engineer and recorded on the As-Built Plans.

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DECK PATCHING DETAILS
 STRUCTURE NO. 060-0022**

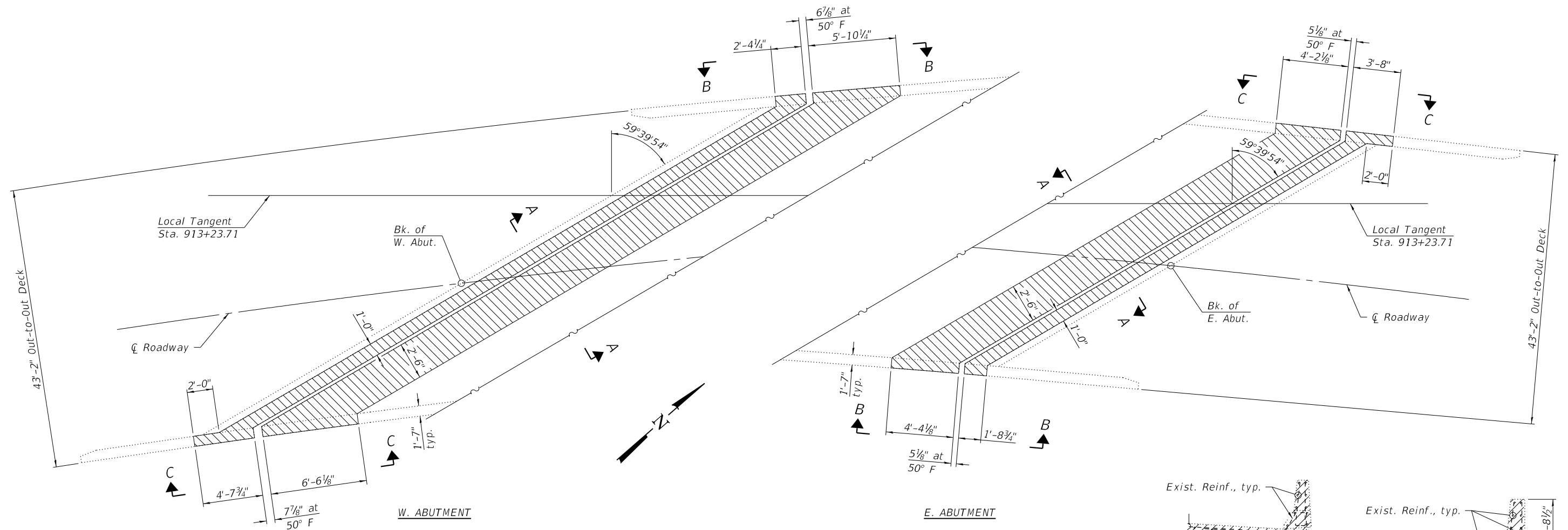
SHEET 3 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				



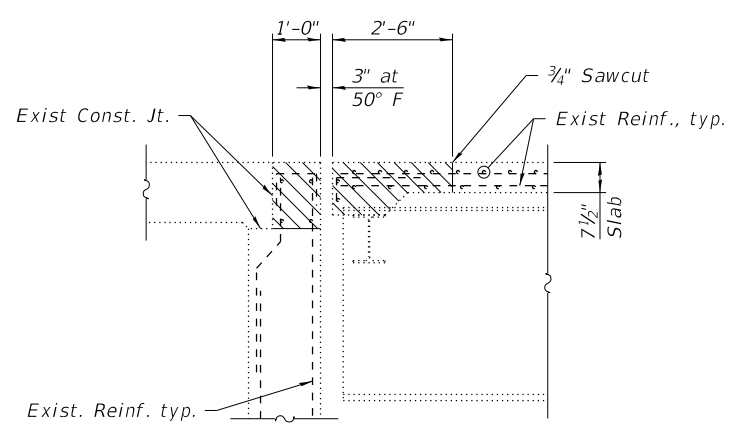
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	CHECKED - E.M. Lagemann	REVISED -
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PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -

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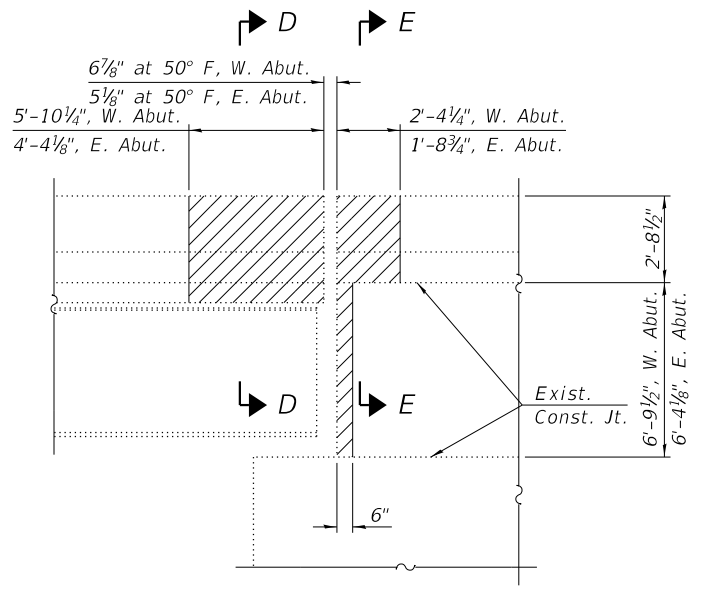


PLAN OF REMOVAL DETAIL

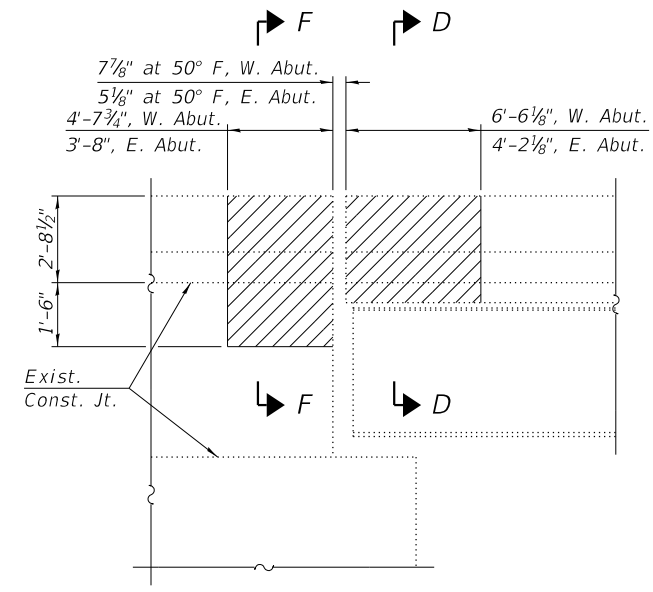
Denotes concrete removal



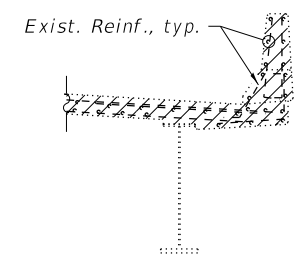
SECTION A-A
(Horiz. dim. at rt. L's)



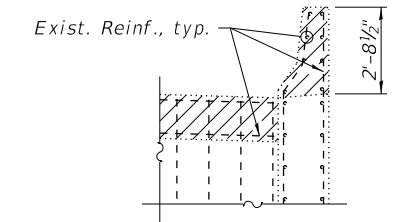
VIEW B-B



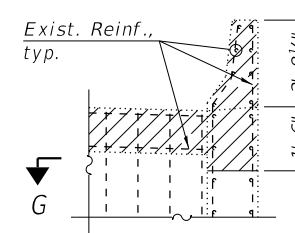
VIEW C-C



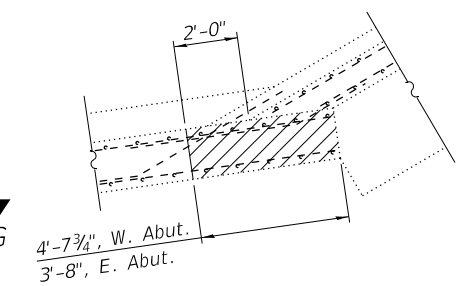
SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G



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PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

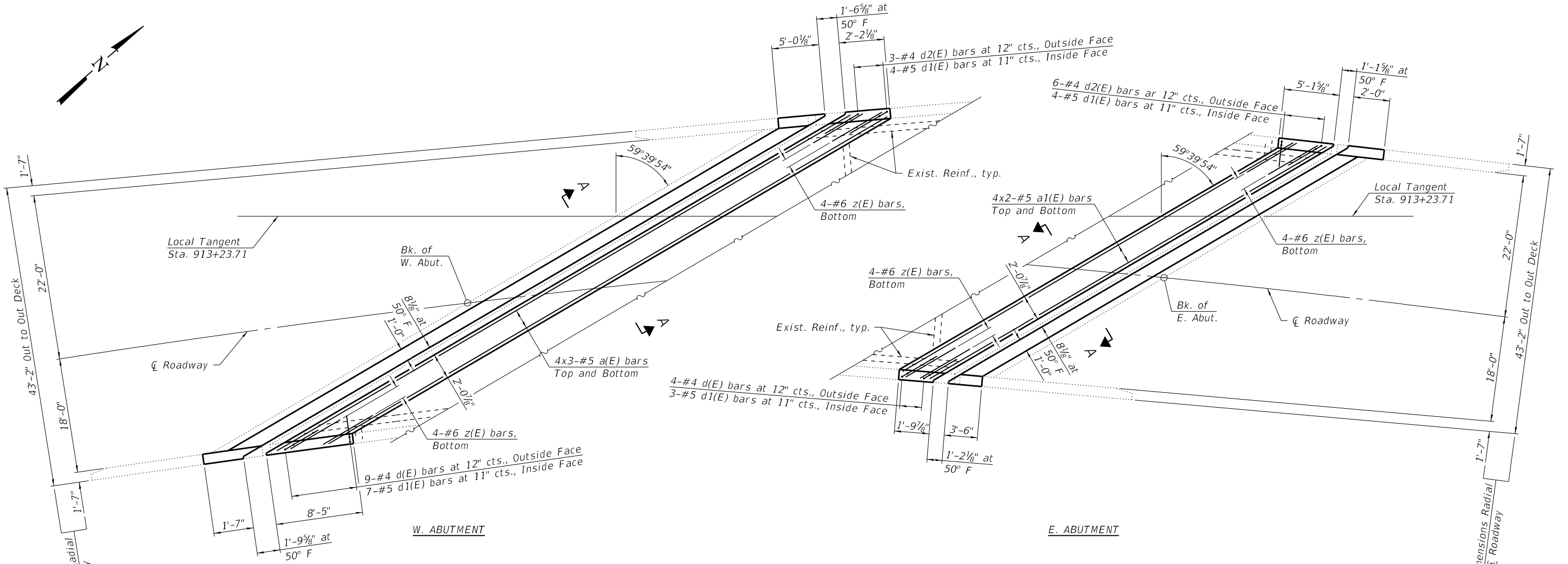
REMOVAL DETAILS
STRUCTURE NO. 060-0022

SHEET 4 OF 10 SHEETS

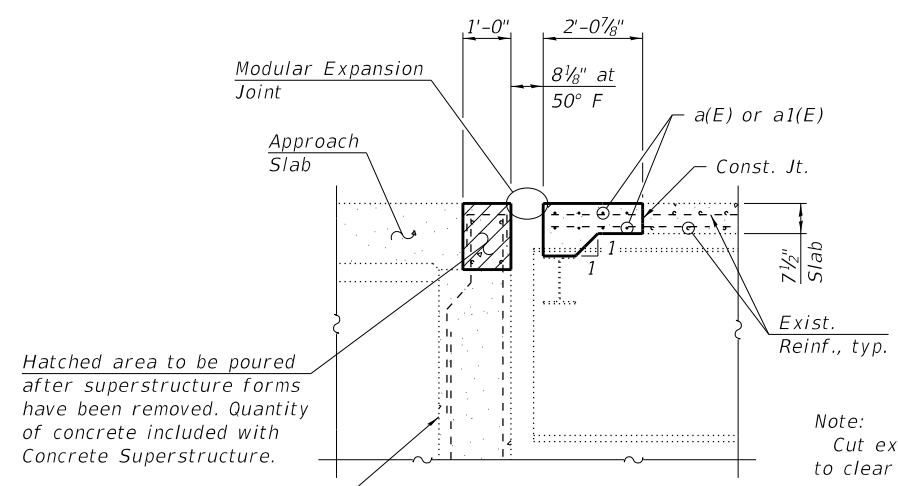
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	89
CONTRACT NO. 76H84				

ILLINOIS FED. AID PROJECT

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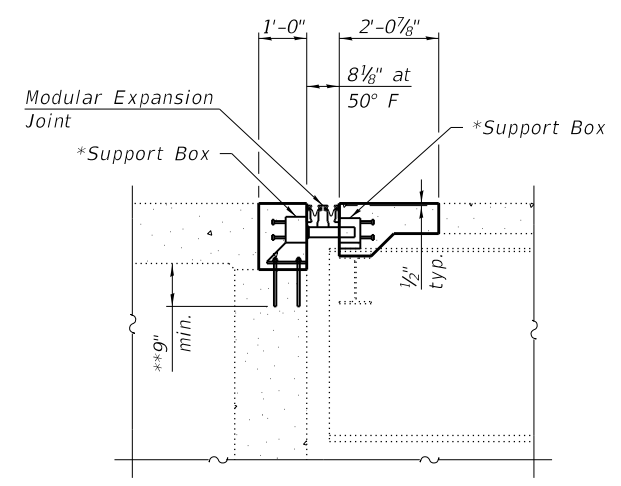


PARTIAL PLAN OF REINFORCEMENT DETAIL



Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.

Note:
Cut existing and new reinforcement to clear Modular Expansion Joint to maintain 1 $\frac{1}{2}$ " minimum clearance.



* Support Box spacing per manufacturer. Support Boxes to be rigidly attached to diaphragms, beams, and abutment wall by adjustable brackets, studs, or shims as determined by manufacturer. Support Boxes to be spaced so they do not interfere with existing top flange of girders.

** Epoxy grout rods in 9" deep min. holes according to Article 584 of the Standard Specifications.

Notes:
Cut existing transverse reinforcement off at removal lines. Cut existing longitudinal reinforcement extending into new construction to maintain 1 $\frac{1}{2}$ " minimum clearance.
For Superstructure Details not shown, see sheet 6 of 10.
For Concrete Removal Details, see sheet 4 of 10.
Existing plans are available upon request to aid in fabricating modular joints to fit existing conditions.



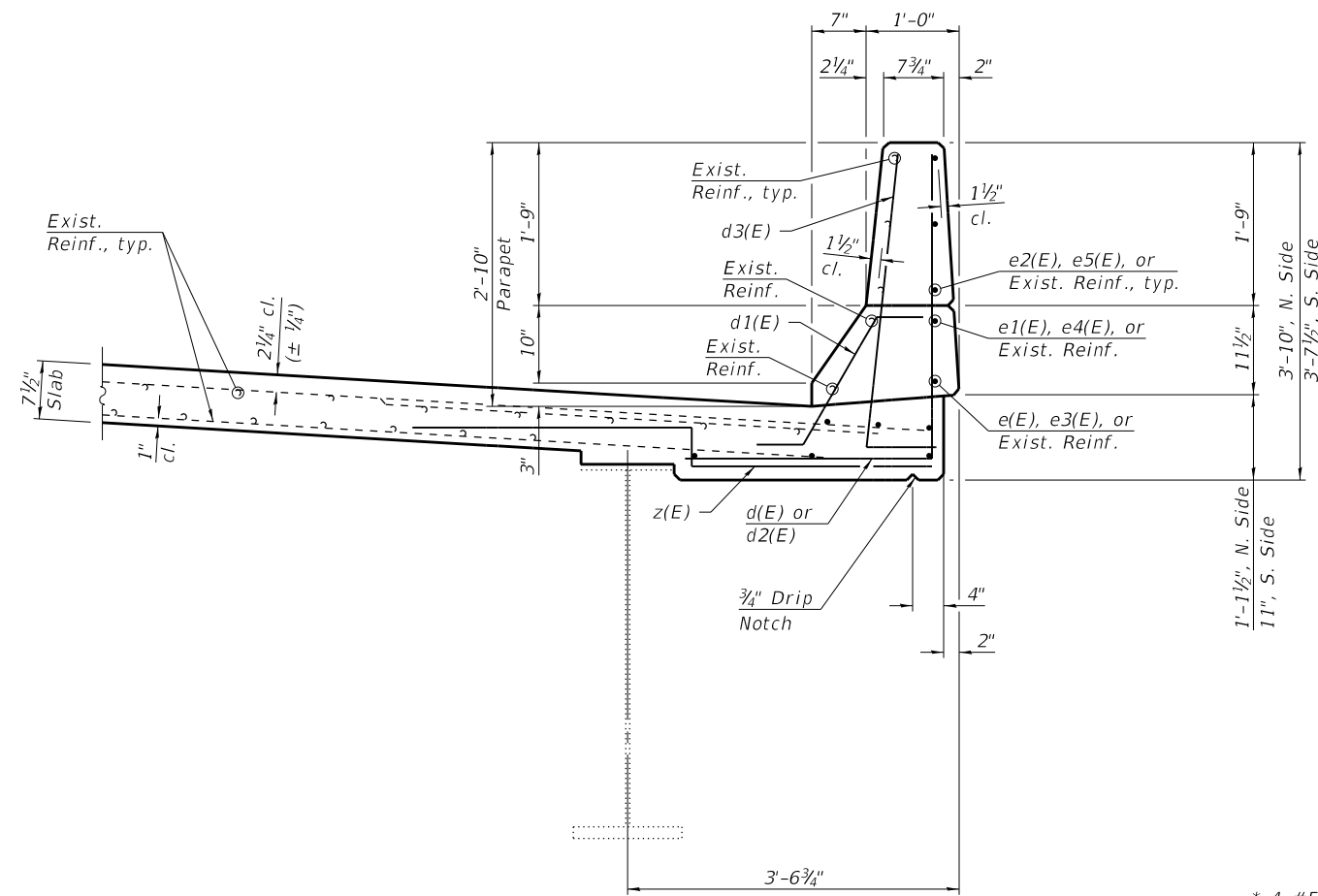
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

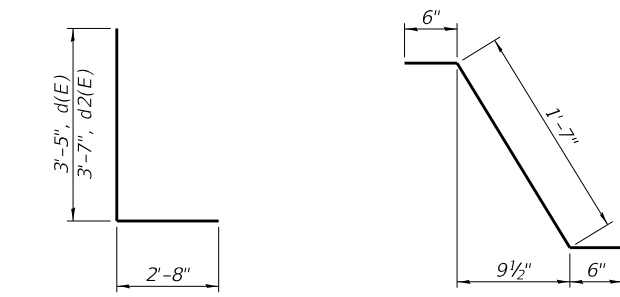
SUPERSTRUCTURE REPAIR DETAILS
STRUCTURE NO. 060-0022

SHEET 5 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

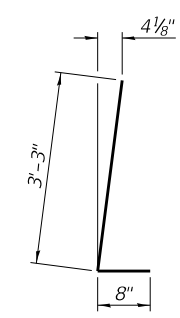


SECTION THRU PARAPET

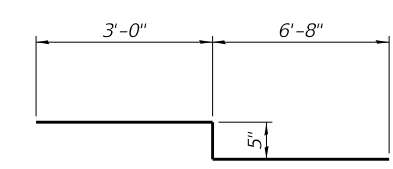


BARS d(E) & d2(E)

BAR d1(E)



BAR d3(E)



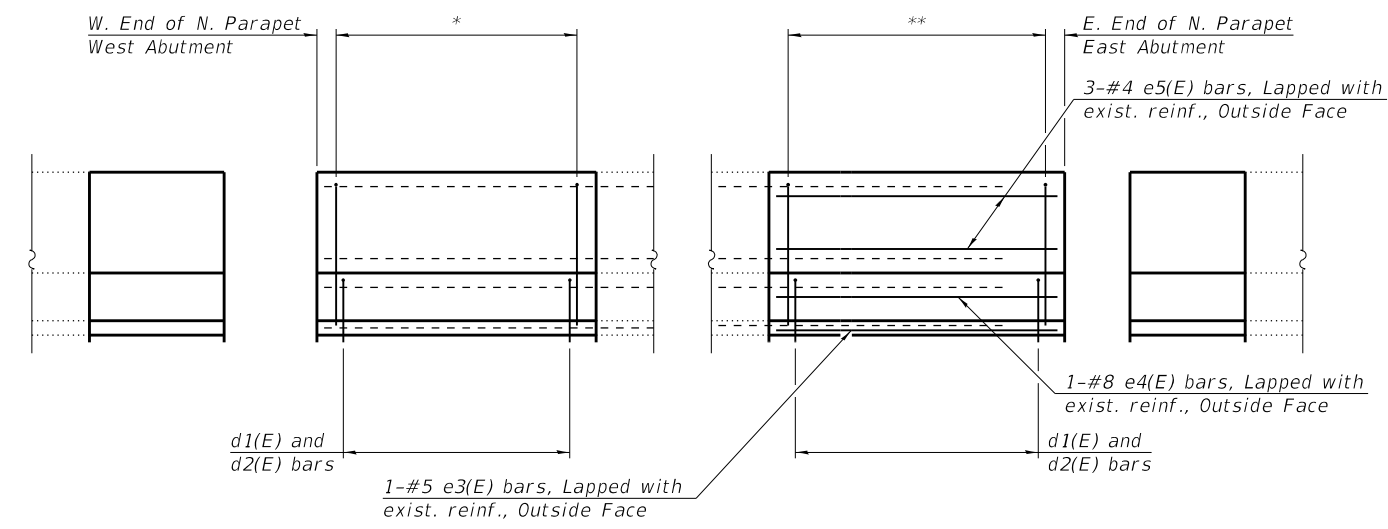
BAR z(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

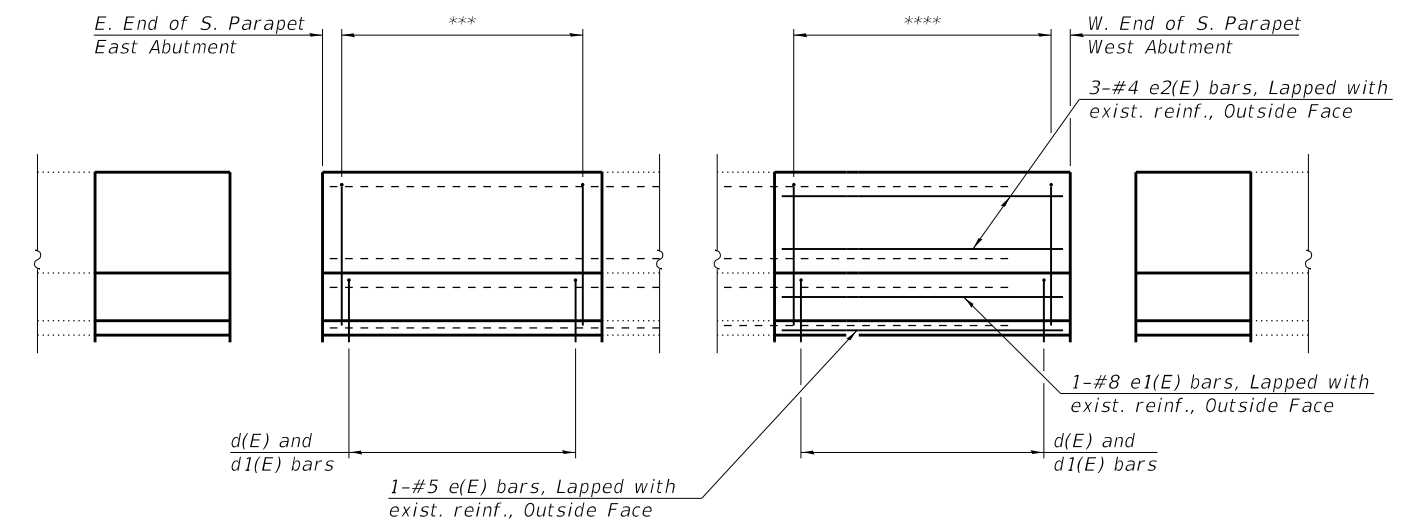
Bar	No.	Size	Length	Shape
a(E)	24	#5	37'-5"	—
a1(E)	16	#5	38'-1"	—
d(E)	13	#4	6'-1"	┘
d1(E)	18	#5	2'-7"	┘
d2(E)	9	#4	6'-3"	┘
d3(E)	18	#5	3'-11"	┘
e(E)	1	#5	8'-2"	—
e1(E)	1	#8	8'-2"	—
e2(E)	3	#4	8'-2"	—
e3(E)	1	#5	4'-10"	—
e4(E)	1	#8	4'-10"	—
e5(E)	3	#4	4'-10"	—
z(E)	16	#6	10'-1"	┘
Concrete Removal			Cu. Yd.	15.6
Concrete Superstructure			Cu. Yd.	13.7
Reinforcement Bars, Epoxy Coated			Pound	2,100

- * 4-#5 d3(E) bars at 11" cts., Inside Face
- ** 4-#5 d3(E) bars at 11" cts., Inside Face
- *** 3-#5 d3(E) bars at 11" cts., Inside Face
- **** 7-#5 d3(E) bars at 11" cts., Inside Face

Notes:
Cut ends of existing reinforcement bars extending into new construction to maintain 1 1/2" minimum clearance.
For Superstructure Details not shown, see sheet 5 of 10.
For Concrete Removal Details, see sheet 4 of 10.



INSIDE ELEVATION OF PARAPET
(North Parapet)



INSIDE ELEVATION OF PARAPET
(South Parapet)

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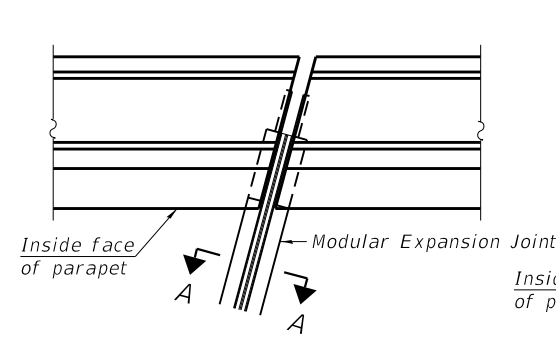
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE REPAIR DETAILS
STRUCTURE NO. 060-0022**

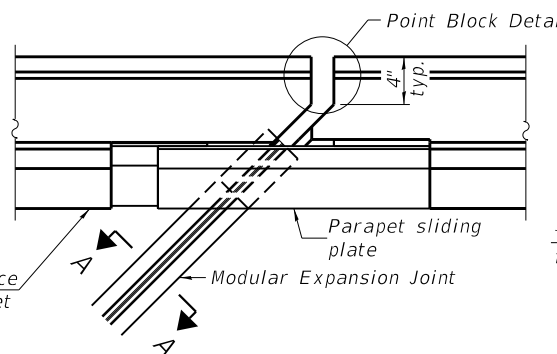
SHEET 6 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

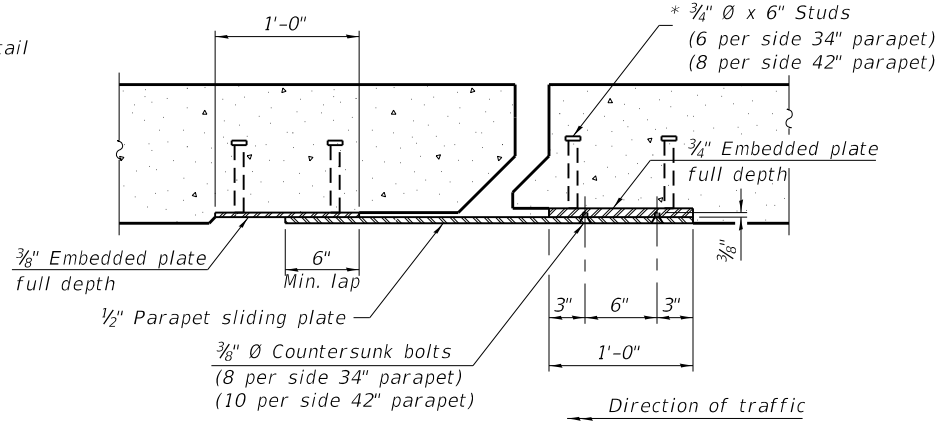


FOR SKEWS $\leq 30^\circ$

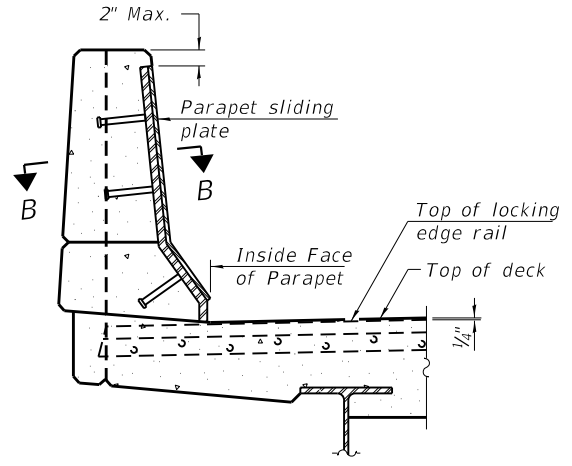
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

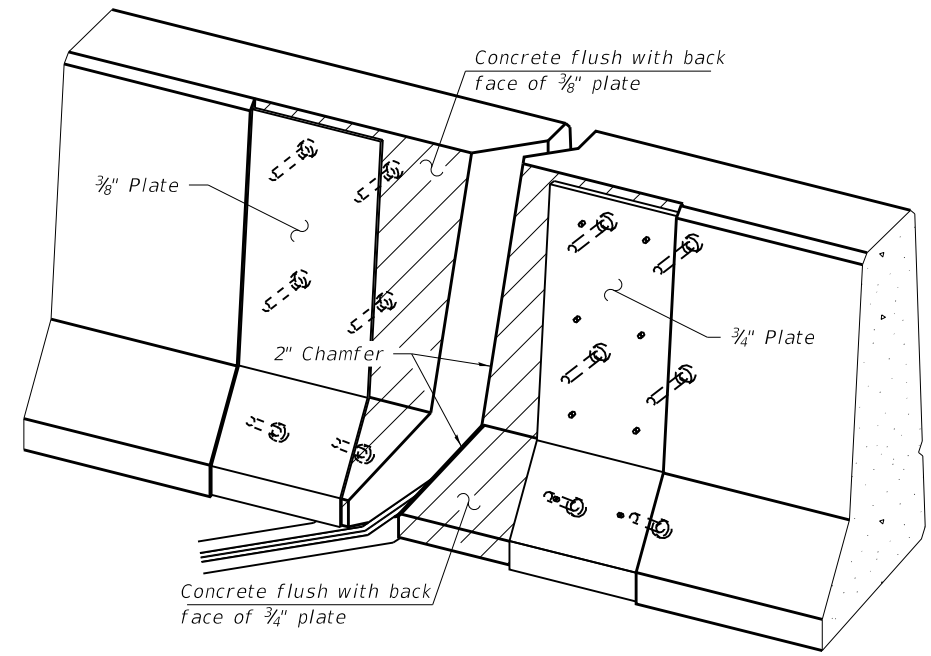


SECTION B-B



ELEVATION AT PARAPET

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



TRIMETRIC VIEW
(Showing embedded plates only)

Notes:
The manufacturer's recommended installation methods shall be followed.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Modular Expansion Joint, 6in. 34" F-shape barrier shown, 42" F-shape similar as noted.
For Section A-A, see sheet 5 of 10.

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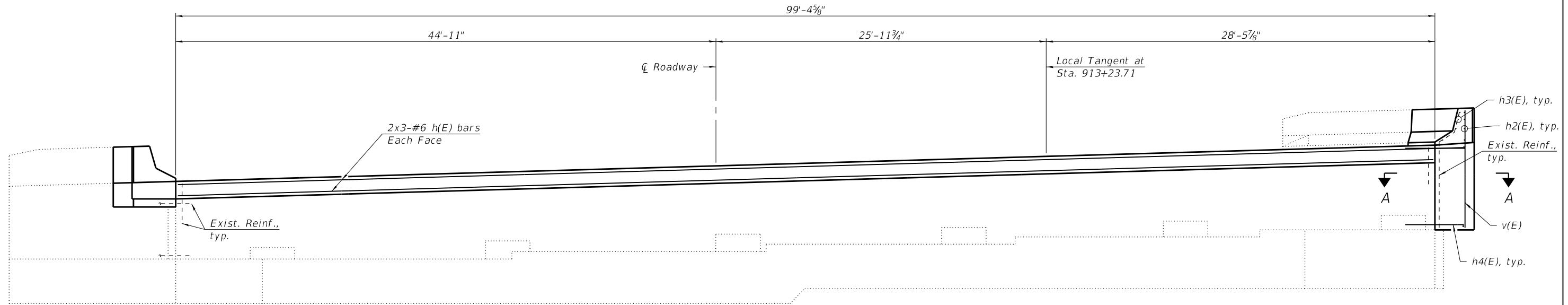
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLIDING PLATE DETAILS
STRUCTURE NO. 060-0022

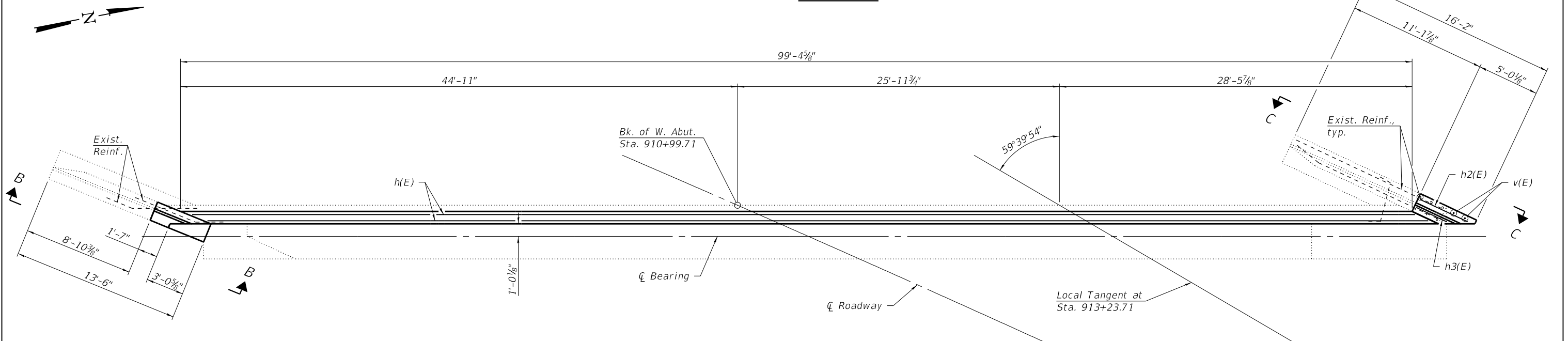
SHEET 7 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	92
CONTRACT NO. 76H84				

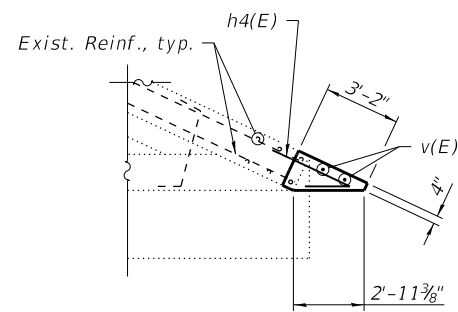
ILLINOIS FED. AID PROJECT



ELEVATION



TOP VIEW



SECTION A-A

MIN. BAR LAP
#6 bar = 5'-4"

Note:
For Views B-B and C-C, see sheet 10 of 10.

MODEL: G:\FE\Jobs\2019\19-1402_PTB 190-32 VARIOUS PHASE I & II D8 - HMG\WO-02\CADD\Sheets\0600022-76H84-008-West Abutment_Details.dgn
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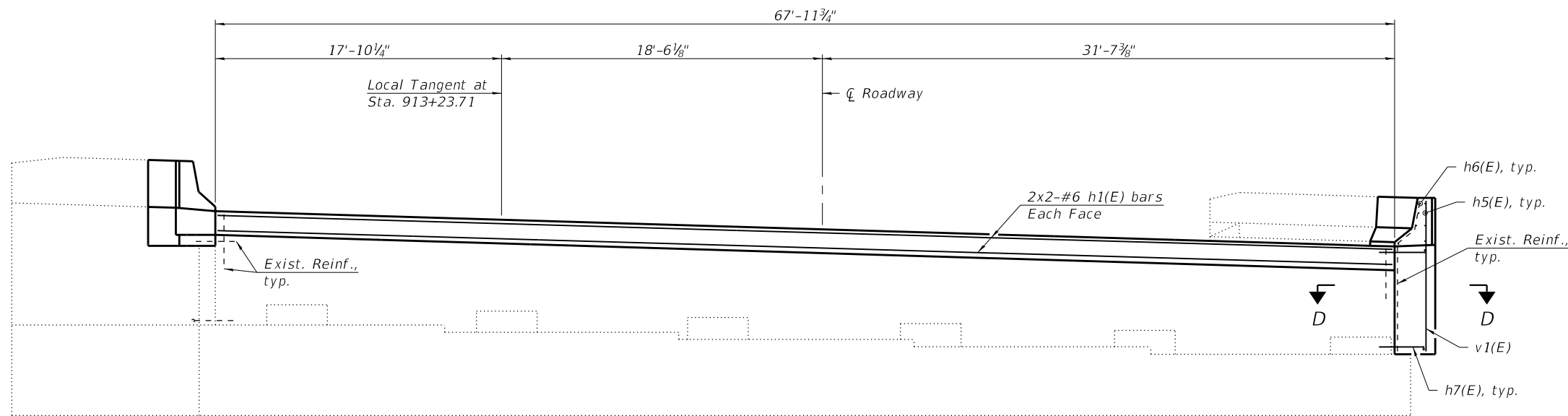
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

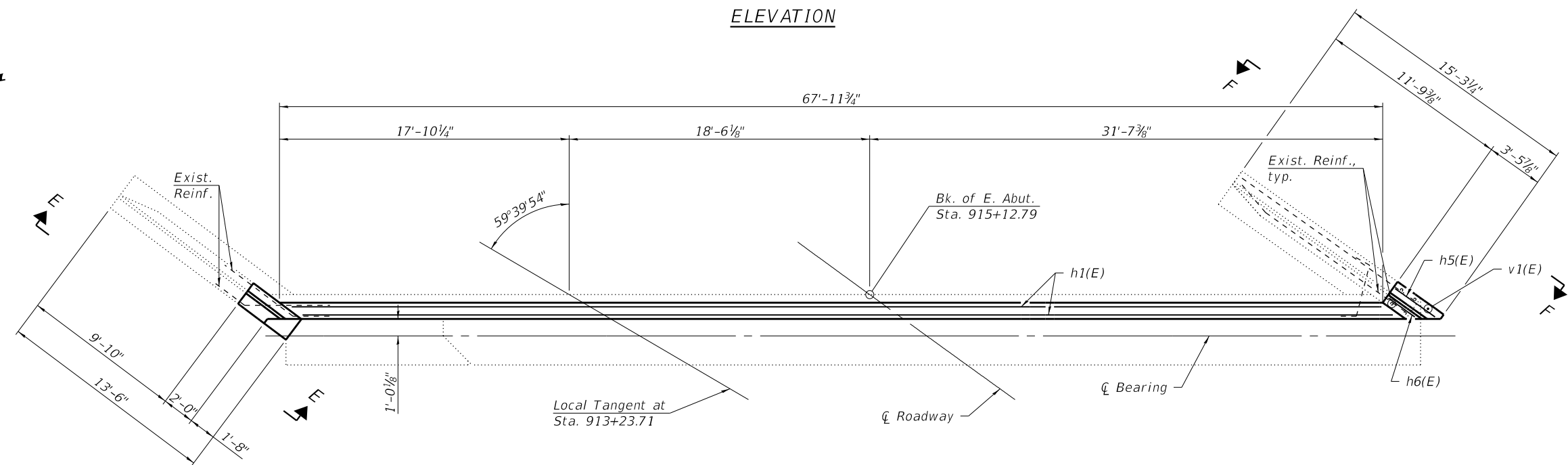
**WEST ABUTMENT DETAILS
STRUCTURE NO. 060-0022**

SHEET 8 OF 10 SHEETS

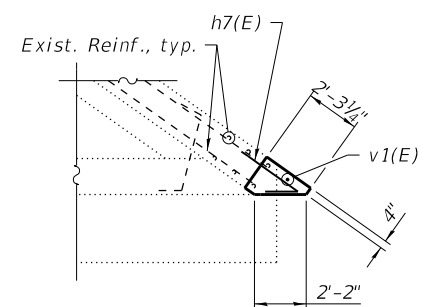
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	93
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				



ELEVATION



TOP VIEW



SECTION D-D

MIN. BAR LAP
#6 bar = 5'-4"

Note:
For Views E-E and F-F, see sheet 10 of 10.

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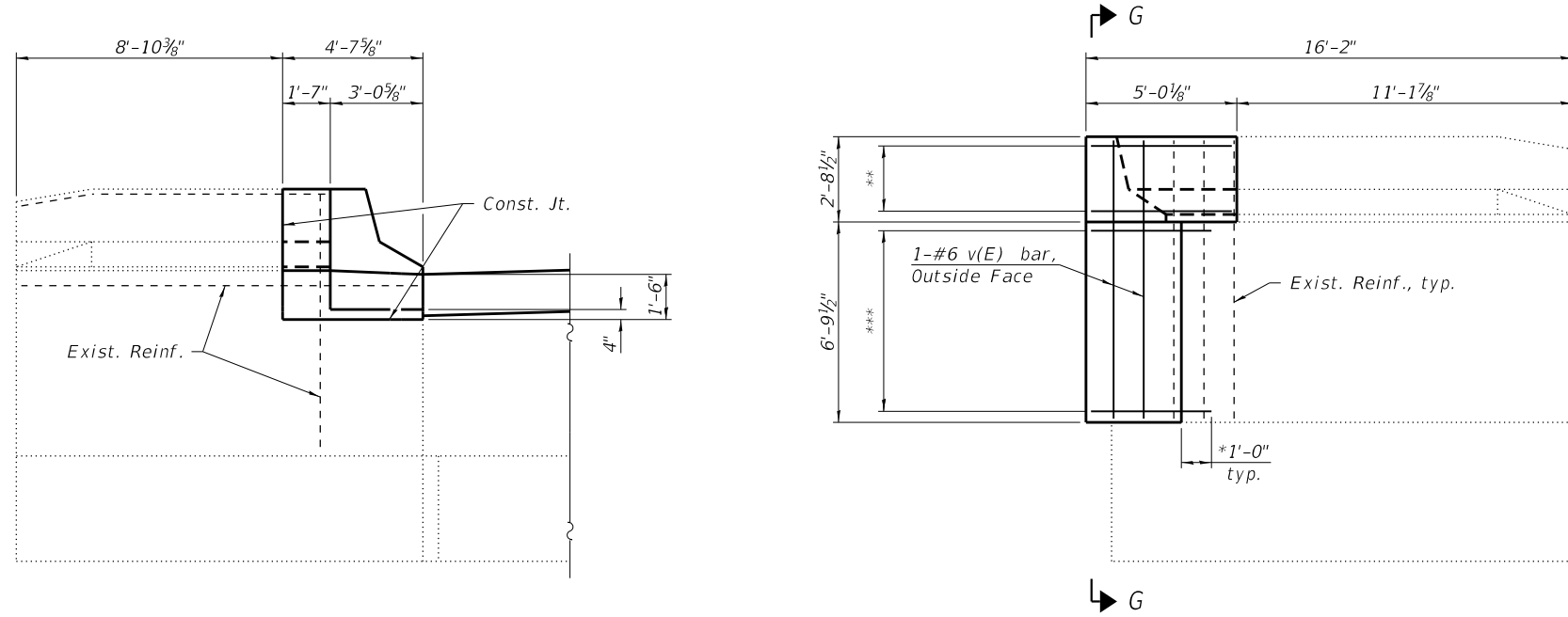
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PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT DETAILS
STRUCTURE NO. 060-0022
SHEET 9 OF 10 SHEETS

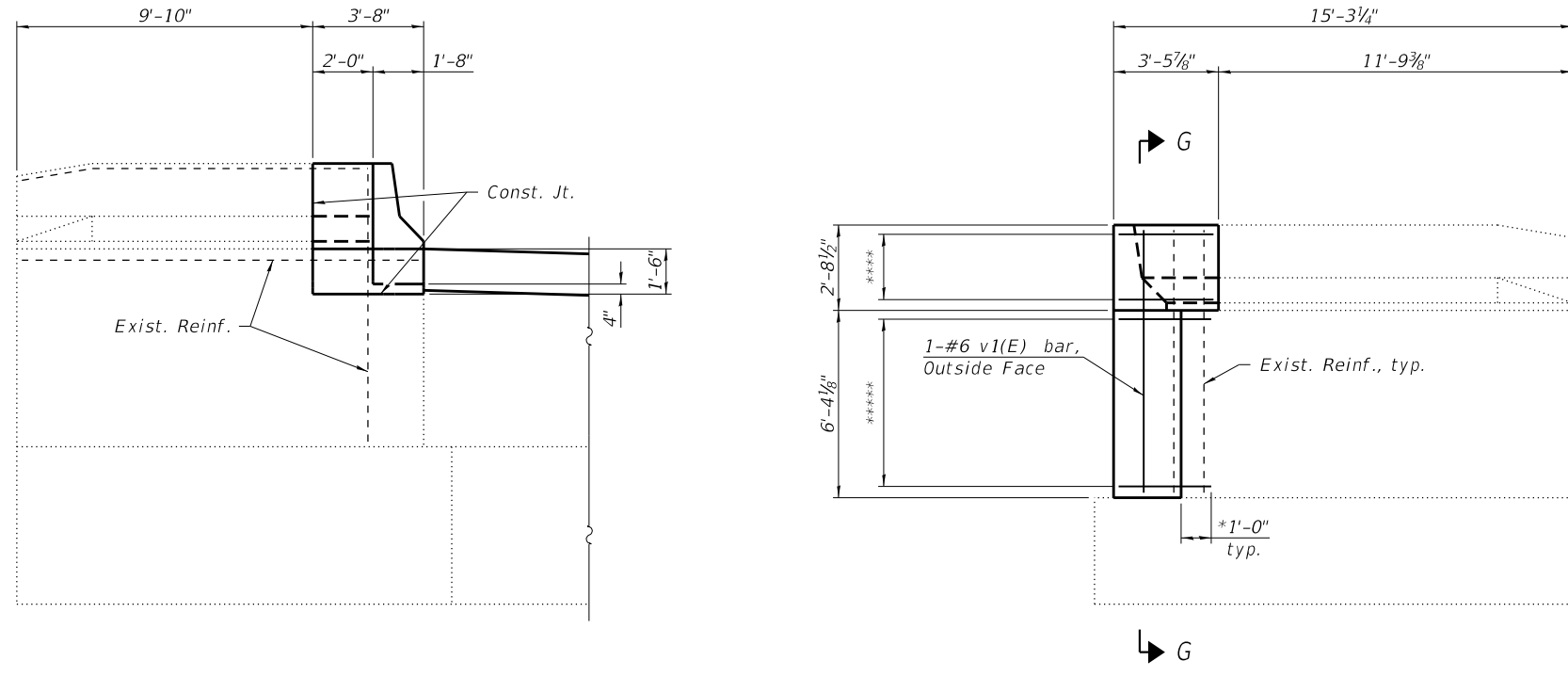
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70	60-(10-11)RS-1	MADISON	209	94
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

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VIEW B-B

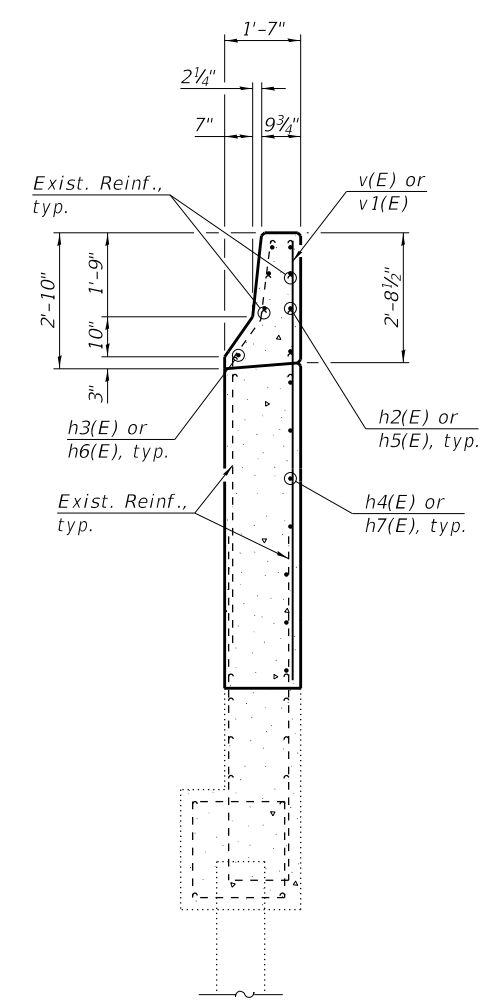
VIEW C-C



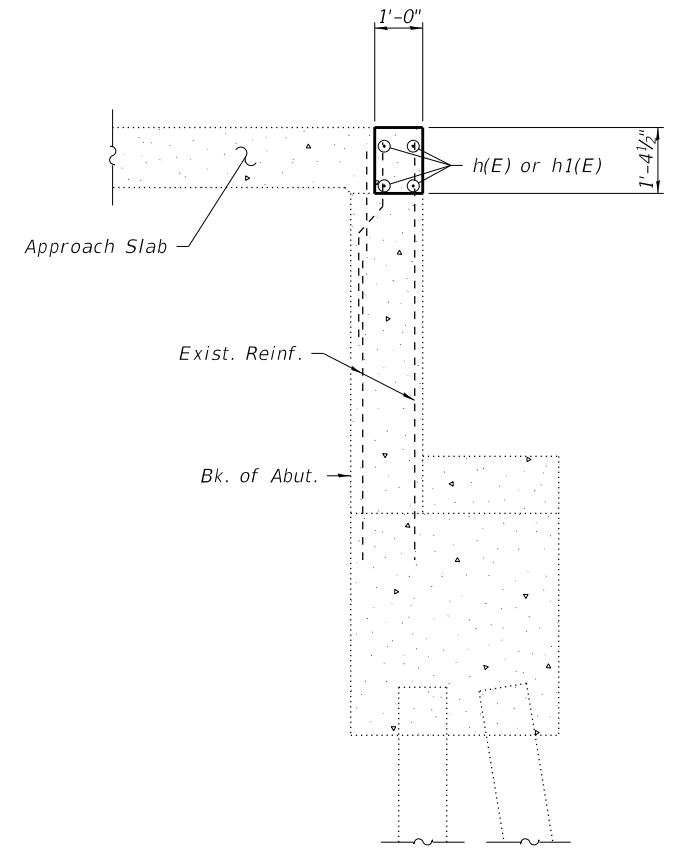
VIEW E-E

VIEW F-F

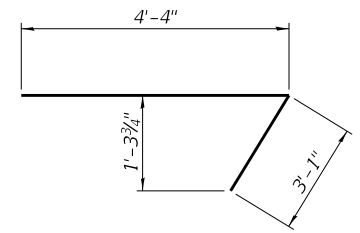
- * Drill and epoxy grout reinforcement according to Section 584 of the Standard Specifications.
- ** 4-#4 h2(E) bars, Lapped with Exist. Reinf., Outside Face
3-#4 h3(E) bars, Lapped with Exist. Reinf., Inside Face
- *** 7-#4 h4(E) bars, Lapped with Exist. Reinf., Outside Face
- **** 4-#4 h5(E) bars, Lapped with Exist. Reinf., Outside Face
3-#4 h6(E) bars, Lapped with Exist. Reinf., Inside Face
- ***** 7-#4 h7(E) bars, Lapped with Exist. Reinf., Outside Face



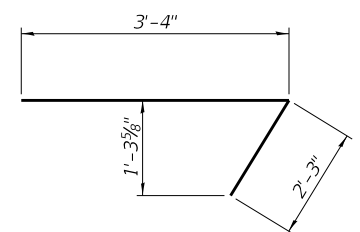
SECTION G-G



SECTION THRU ABUTMENT



BAR h4(E)



BAR h7(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	12	#6	38'-4"	—
h1(E)	8	#6	38'-9"	—
h2(E)	4	#4	4'-9"	—
h3(E)	3	#4	3'-5"	—
h4(E)	7	#4	7'-5"	7
h5(E)	4	#4	3'-3"	—
h6(E)	3	#4	2'-4"	—
h7(E)	7	#4	5'-7"	7
v(E)	2	#6	9'-3"	—
v1(E)	1	#6	8'-9"	—
Concrete Removal			Cu. Yd.	10.9
Concrete Superstructure			Cu. Yd.	11.5
Reinforcement Bars, Epoxy Coated			Pound	1,290

Notes:
 All new concrete is included with Concrete Superstructure.
 For Locations of Views B-B and C-C, see sheet 8 of 10.
 For Locations of Views E-E and F-F, see sheet 9 of 10.
 Cut existing reinforcement to maintain a 1/2" minimum clearance.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
STRUCTURE NO. 060-0022

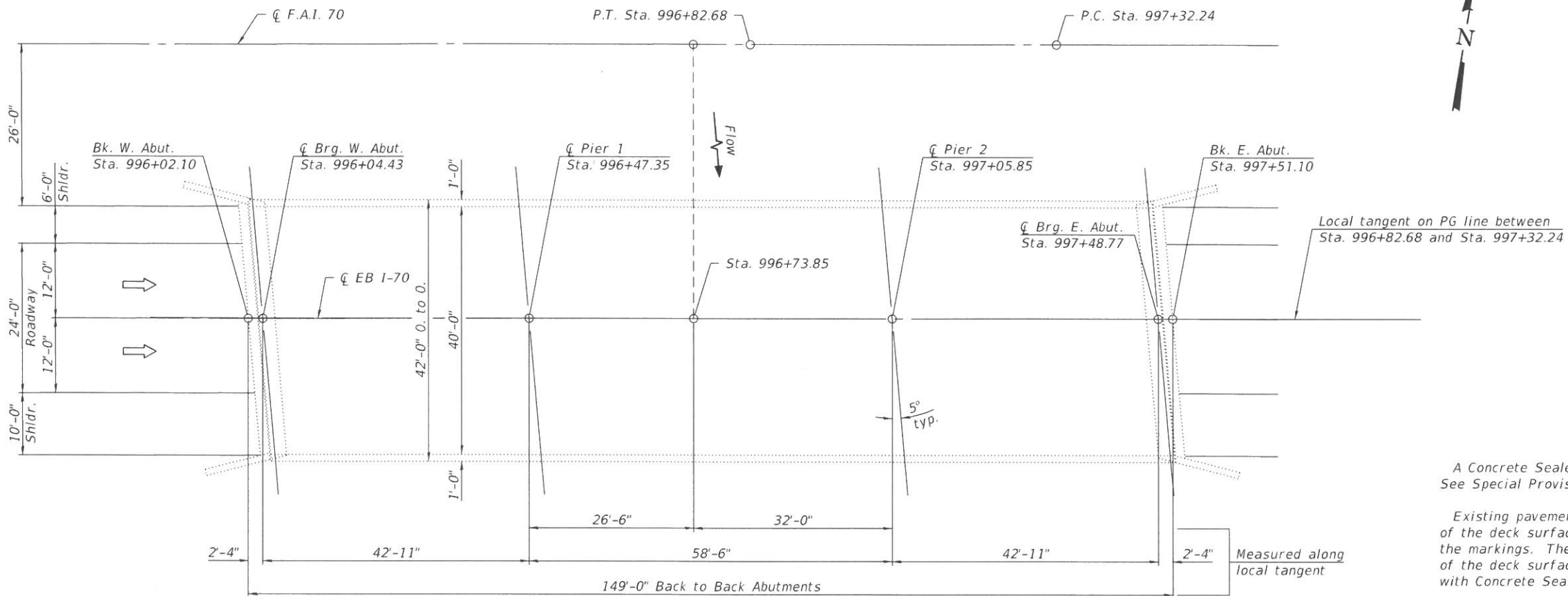
SHEET 10 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	95
CONTRACT NO. 76H84				

ILLINOIS FED. AID PROJECT

SCOPE OF WORK

1. Apply Concrete Sealer to deck and parapets



PLAN

GENERAL NOTES

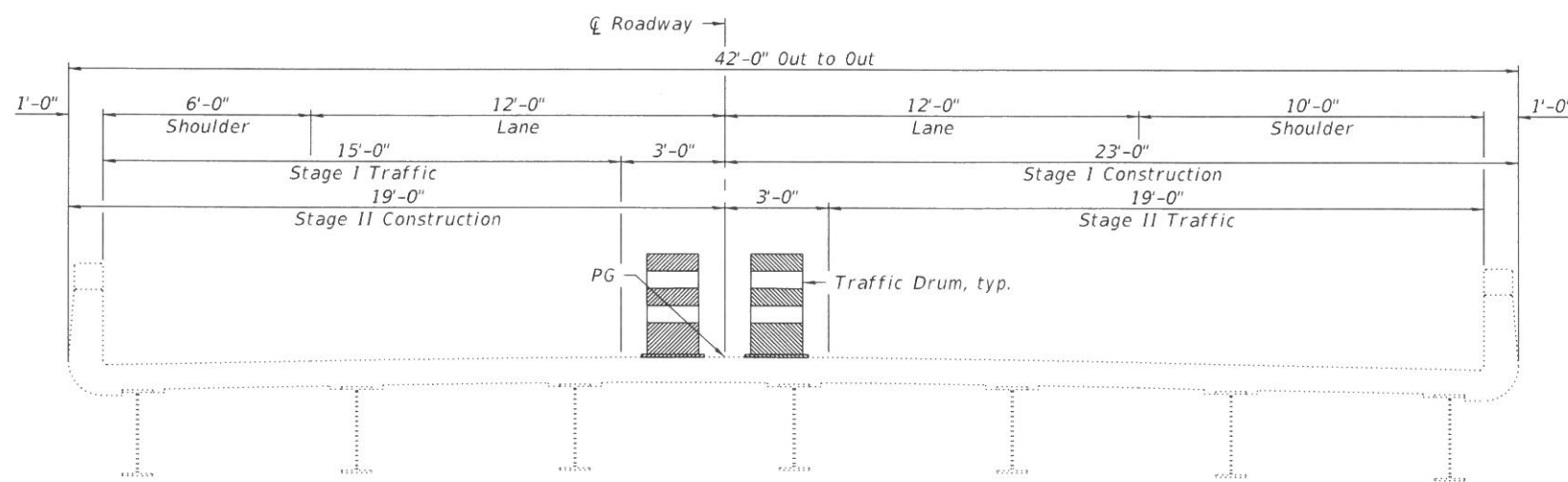
A Concrete Sealer shall be applied to the surfaces of the deck and parapets. See Special Provisions for Bridge Deck Concrete Sealer.

Existing pavement markings shall be temporarily covered prior to application of the deck surface treatment, to prevent the material from being applied over the markings. The temporary covering shall be removed after the application of the deck surface treatment and prior to opening to traffic. Cost included with Concrete Sealer.

Plan dimensions and details relative to 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 work, however, the Contractor will be paid for the quantity actually finished based at the unit price for the work.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Sealer	Sq. Ft.	7,196	---	7,196



CROSS SECTION
(Looking East)



Eric Lagemann 6/17/2020
License Expires 11/30/2020 Date

GENERAL PLAN
I-70 (EB) OVER WENDELL BRANCH
F.A.I. ROUTE 70
SECTION 60-(10-11)RS-1
MADISON COUNTY
STATION 996+73.85
STRUCTURE NO. 060-0023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	96

CONTRACT NO. 76H84

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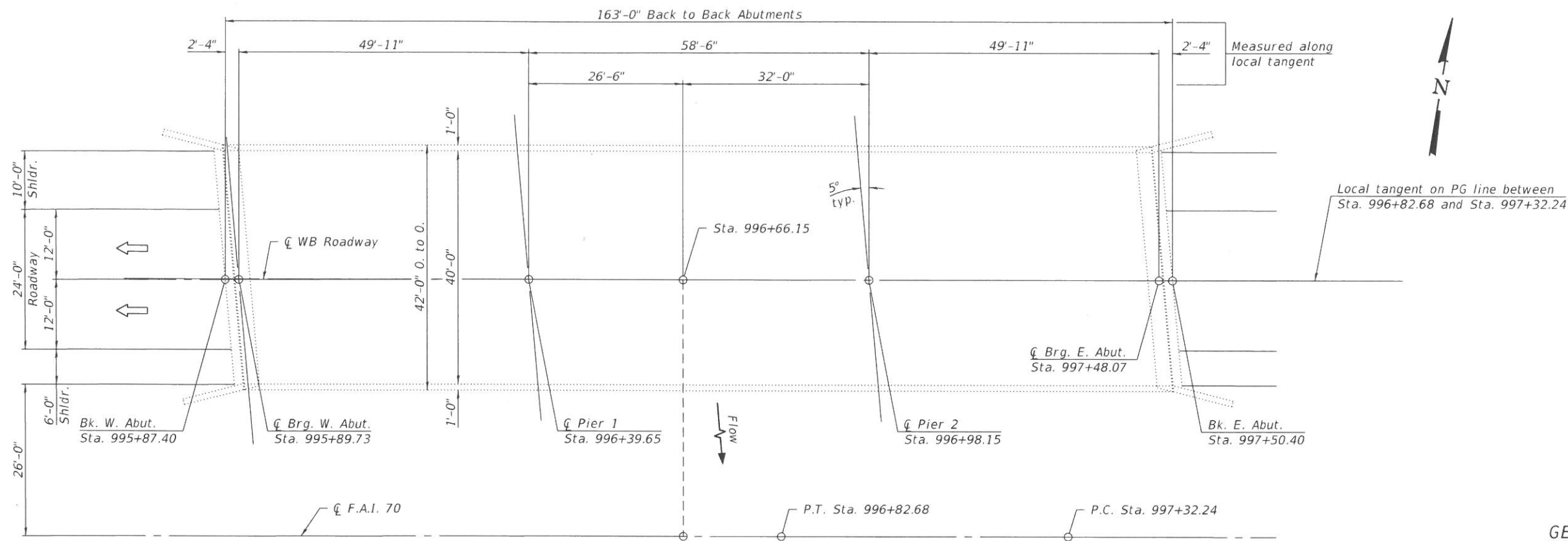
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PLOT SCALE =	CHECKED -	REVISD -
PLOT DATE =	DRAWN - E.M. Lagemann	REVISD -
	CHECKED - T.S. Friederich	REVISD -

INDEX OF SHEETS

- 1. General Plan
- 2. Deck Patching Details

SCOPE OF WORK

- 1. Apply Concrete Sealer to deck and parapets
- 2. Perform Partial Depth Deck Patching



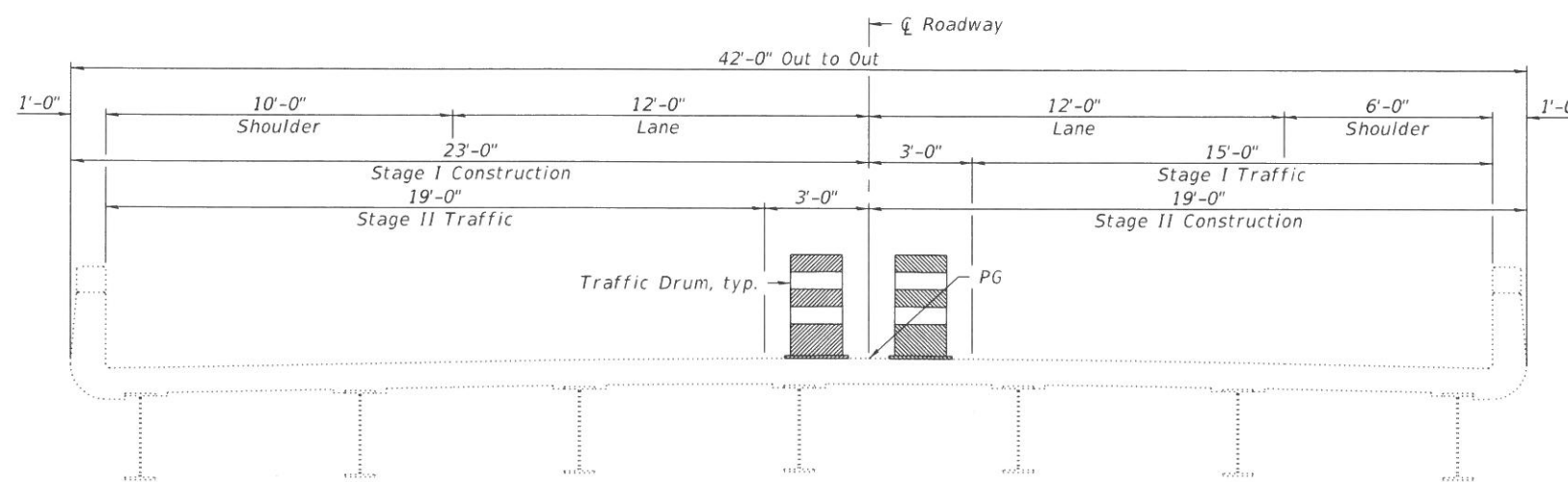
PLAN

GENERAL NOTES

A Concrete Sealer shall be applied to the surfaces of the deck and parapets. See Special Provisions for Bridge Deck Concrete Sealer.

Existing pavement markings shall be temporarily covered prior to application of the deck surface treatment, to prevent the material from being applied over the markings. The temporary covering shall be removed after the application of the deck surface treatment and prior to opening to traffic. Cost included with Concrete Sealer.

Plan dimensions and details relative to 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 based at the unit bid price for the work.



CROSS SECTION
(Looking East)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Sealer	Sq. Ft.	7,859	---	7,859
Deck Slab Repair (Partial)	Sq. Yd.	22.5	---	22.5



Eric Lagemann 6/17/2020
License Expires 11/30/2020 Date

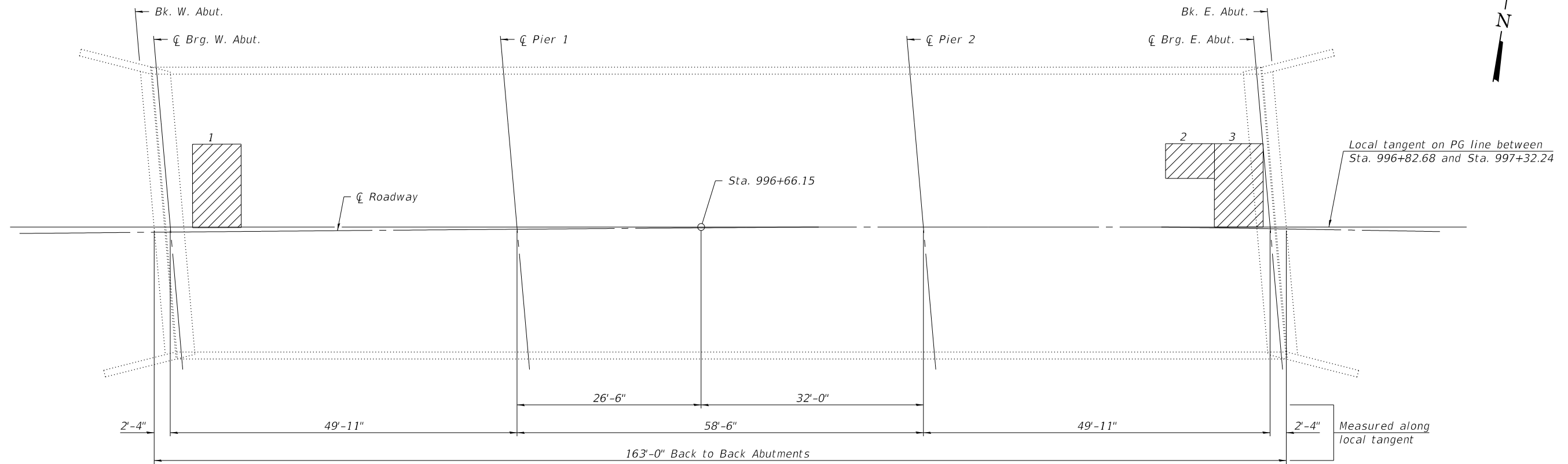
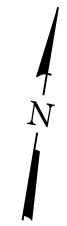
GENERAL PLAN
I-70 (WB) OVER WENDELL BRANCH
F.A.I. ROUTE 70
SECTION 60-(10-11)RS-1
MADISON COUNTY
STATION 996+66.15
STRUCTURE NO. 060-0024

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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PLLOT DATE	DRAWN	REVISIONS
	CHECKED	REVISIONS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	97
CONTRACT NO. 76H84				

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DECK REPAIR PLAN

**ANTICIPATED DECK
SLAB REPAIR (PARTIAL)**

Patch No.	Width (ft.)	Length (ft.)	Quantity (sq. yd.)
1	12	7	9.3
2	5	7	3.9
3	12	7	9.3
			Total = 22.5

LEGEND
 Deck Slab Repair (Partial)

Note:
 Quantities and repair areas shown are estimated. Actual areas to be determined by the Resident Engineer and recorded on the As-Built Plans.

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Partial)	Sq. Yd.	22.5

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	CHECKED - T.S. Friederich	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK PATCHING DETAILS
STRUCTURE NO. 060-0024**

SHEET 2 OF 2 SHEETS

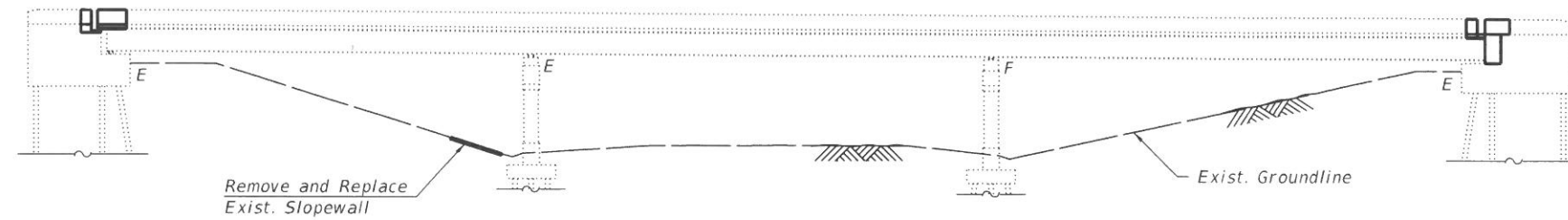
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	98
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

SCOPE OF WORK

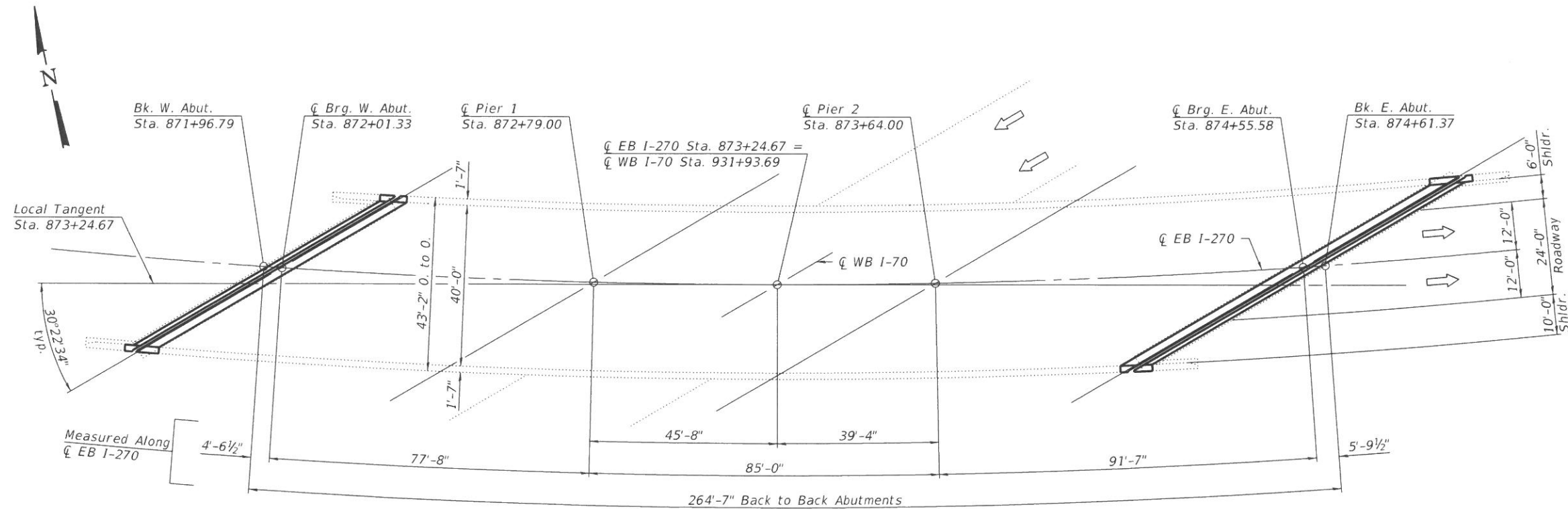
1. Replace Expansion Joints
2. Partial Depth Deck Patching
3. Partial Remove and Replace West Abutment Slopewall
4. Seal the Deck and Parapets

INDEX OF SHEETS

1. General Plan
2. General Data
3. Deck Patching Details
4. Removal Details
- 5.-6. Superstructure Repair Details
7. Sliding Plate Details
8. West Abutment Details
9. East Abutment Details
10. Abutment Details
11. Crashwall Extension Details



ELEVATION



PLAN



Eric Lagemann 6/17/2020
 License Expires 11/30/2020 Date

GENERAL PLAN
I-270 (EB) OVER I-70 (WB)
F.A.I. ROUTE 70
SECTION 60-(10-11)RS-1
MADISON COUNTY
STATION 873+24.67
STRUCTURE NO. 060-0059

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	99
CONTRACT NO. 76H84				

ILLINOIS FED. AID PROJECT

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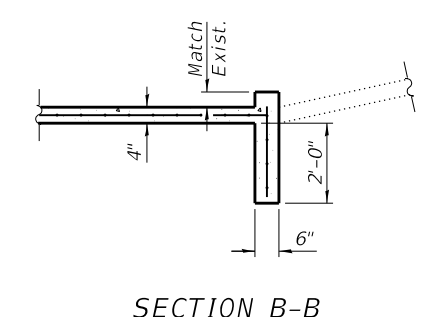
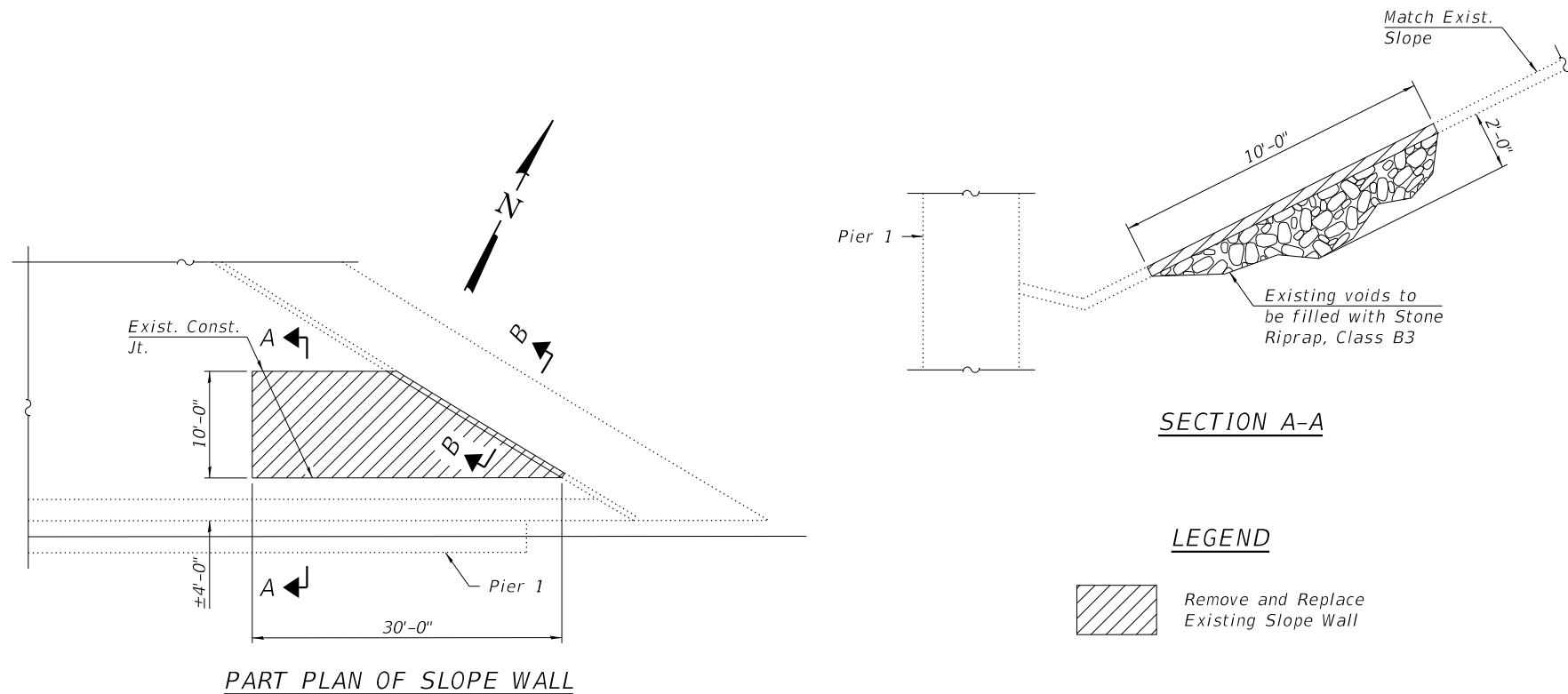
USER NAME	DESIGNED	REVISIONS
E.M. Lagemann	E.M. Lagemann	REVISIONS
T.S. Friederich	T.S. Friederich	REVISIONS
E.M. Lagemann	E.M. Lagemann	REVISIONS
T.S. Friederich	T.S. Friederich	REVISIONS

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
 As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.
 Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
 Plan dimensions and details relative to 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.
 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. Cost included with Concrete Removal.
 The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.
 Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.
 A Concrete Sealer shall be applied to the surfaces of the deck and parapets. See Special Provisions for Bridge Deck Concrete Sealer.
 New pavement markings shall be temporarily covered prior to application of the deck surface treatment, to prevent the material from being applied over the markings. The temporary covering shall be removed after its application of the deck surface treatment and prior to opening to traffic. Cost included with Concrete Sealer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class B3	Ton	---	21	21
Concrete Removal	Cu. Yd.	26.5	---	26.5
Slope Wall Removal	Sq. Yd.	---	25	25
Concrete Structures	Cu. Yd.	---	37.4	37.4
Concrete Superstructure	Cu. Yd.	24.1	---	24.1
Reinforcement Bars, Epoxy Coated	Pound	3,350	3,320	6,670
Slope Wall 4 Inch	Sq. Yd.	---	25	25
Concrete Sealer	Sq. Ft.	12,440	---	12,440
Deck Slab Repair (Partial)	Sq. Yd.	5.6	---	5.6
Modular Expansion Joint, 6 in.	Foot	172.2	---	172.2



Notes:
 Remove existing 4" concrete slope wall as shown.
 Fill any voids and grade with riprap as shown, and as directed by the Engineer. The minimum thickness of Stone Riprap, Class B3 shall be 8 inches.
 A quantity of 21 tons of Stone Riprap, Class B3 has been estimated to fill voids in the existing slope wall. The required quantity may vary, and the Engineer shall adjust the riprap quantity as required to suit the field conditions. Such variations shall not be cause for additional compensation for a change in sope of work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighting 58 lbs. per 100 sq. ft.
 Existing slope wall reinforcement shall be extended into the new slope wall a minimum of 2'-0".

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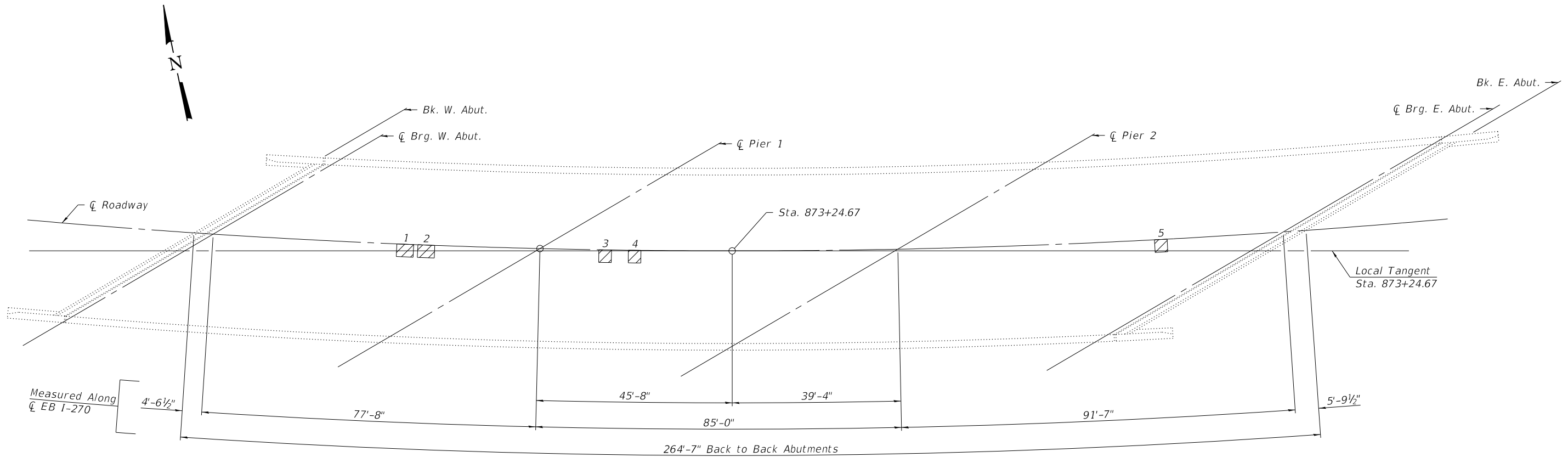


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PLOT DATE =	CHECKED - T.S. Friederich	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GENERAL DATA
STRUCTURE NO. 060-0059
 SHEET 2 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	100
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				



DECK REPAIR PLAN

**ANTICIPATED DECK
SLAB REPAIR (PARTIAL)**

Patch No.	Width (ft.)	Length (ft.)	Quantity (sq. yd.)
1	3	4	1.3
2	3	4	1.3
3	3	3	1.0
4	3	3	1.0
5	3	3	1.0
			<i>Total = 5.6</i>

LEGEND
 Deck Slab Repair (Partial)

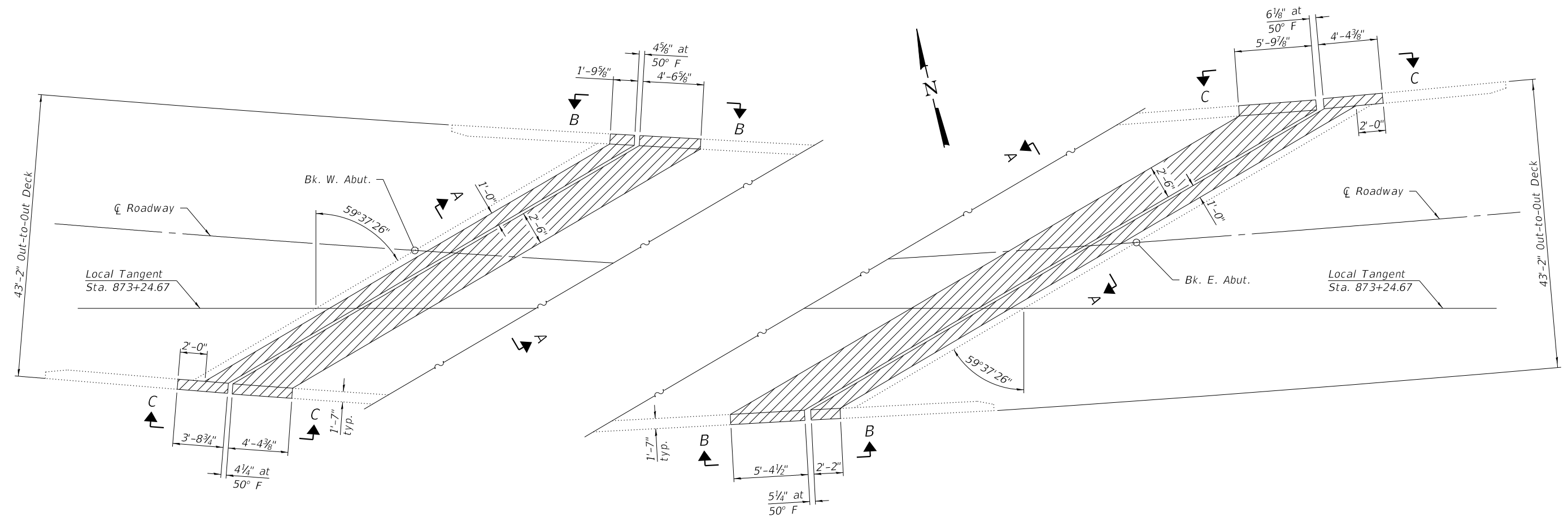
Note:
 Quantities and repair areas shown are estimated.
 Actual areas to be determined by the Resident Engineer and recorded on the As-Built Plans.

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Partial)	Sq. Yd.	5.6

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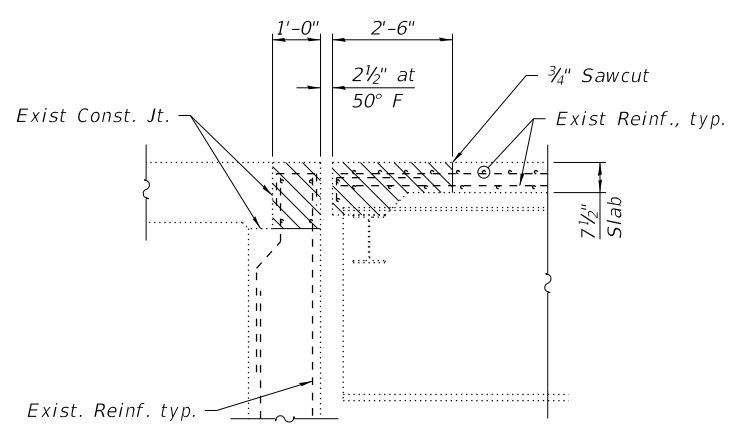


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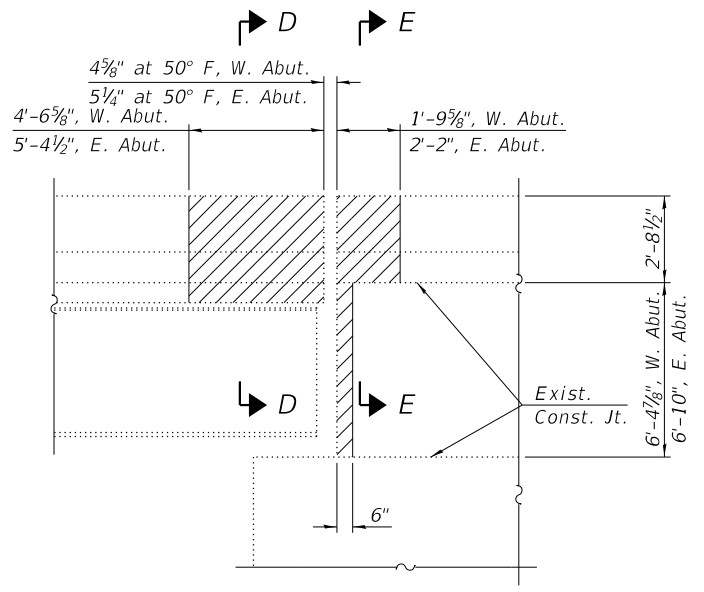
E. ABUTMENT

PLAN OF REMOVAL DETAIL

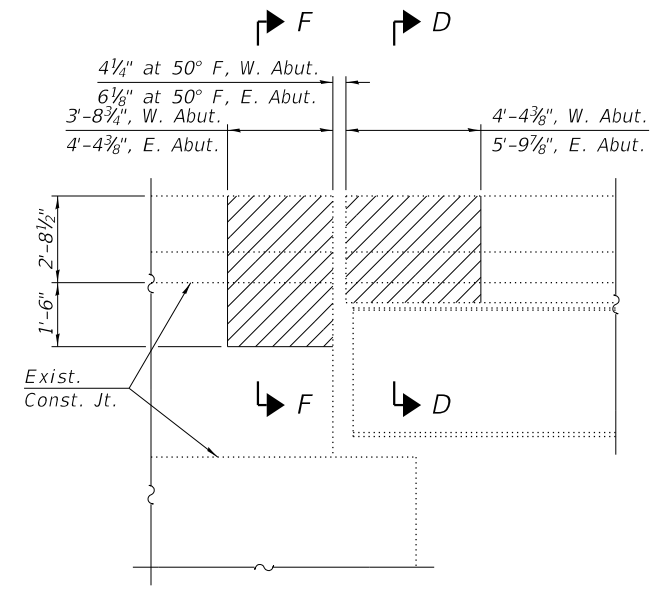
Denotes concrete removal



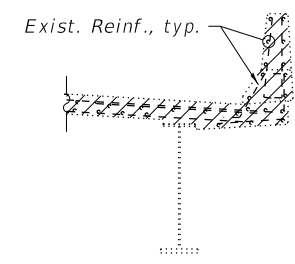
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(Horiz. dim. at rt. L's)



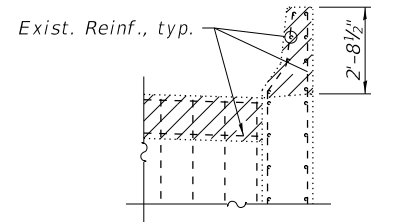
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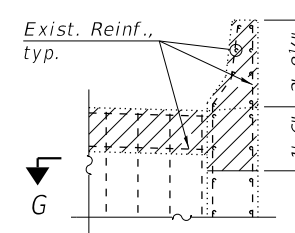
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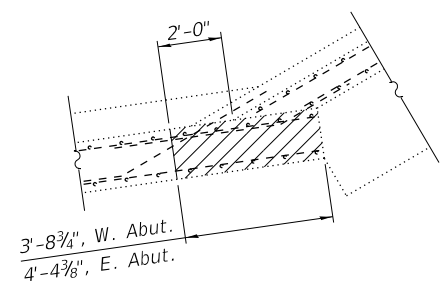
SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

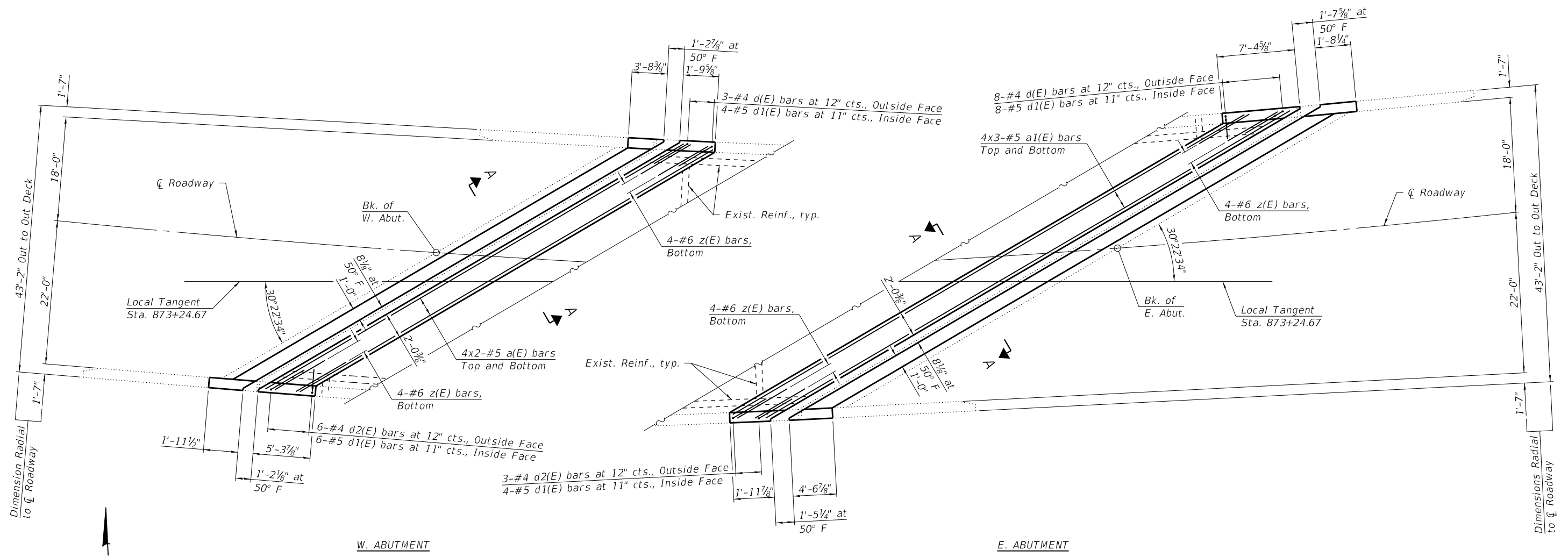
REMOVAL DETAILS
STRUCTURE NO. 060-0059

SHEET 4 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76H84				

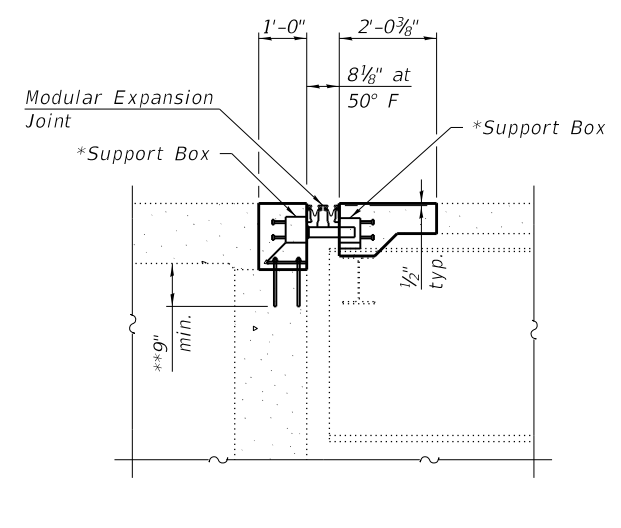
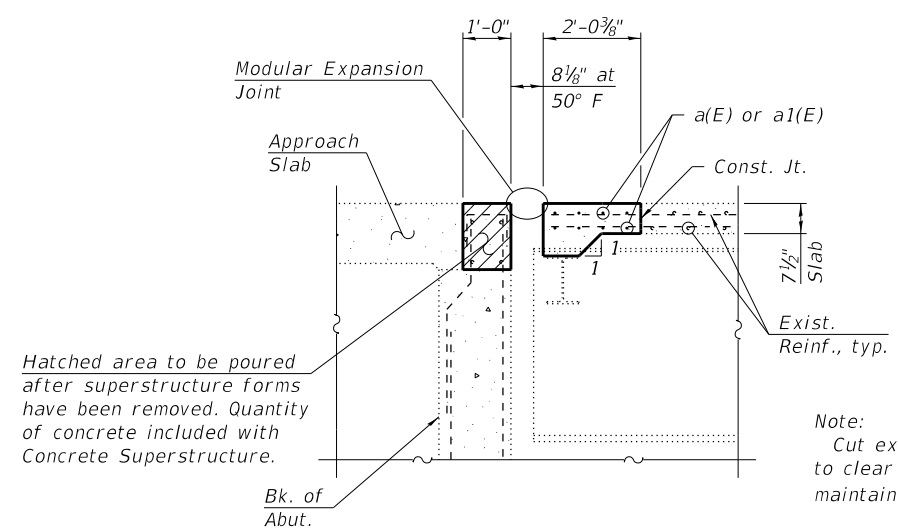
ILLINOIS FED. AID PROJECT

MODEL: G:\FEI\jobs\2019\19-1402_PTB_190-32_VARIOUS PHASE I & II.D8 - HMG\W0-02\CADD\Sheets\0600059-76H84-005-Superstructure Details.dgn
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 6/16/2020 9:52:17 AM



PARTIAL PLAN OF REINFORCEMENT DETAIL

MIN. BAR LAP
 #5 bar = 3'-9"



* Support Box spacing per manufacturer. Support Boxes to be rigidly attached to diaphragms, beams, and abutment wall by adjustable brackets, studs, or shims as determined by manufacturer. Support Boxes to be spaced so they do not interfere with existing top flange of girders.

** Epoxy grout rods in 9" deep min. holes according to Article 584 of the Standard Specifications.

Notes:
 Cut existing transverse reinforcement off at removal lines. Cut existing longitudinal reinforcement extending into new construction to maintain 1 1/2" minimum clearance.
 For Superstructure Details not shown, see sheet 6 of 11.
 For Concrete Removal Details, see sheet 4 of 11.
 Existing Plans are available upon request to aid in fabricating modular joints to fit existing conditions.



USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

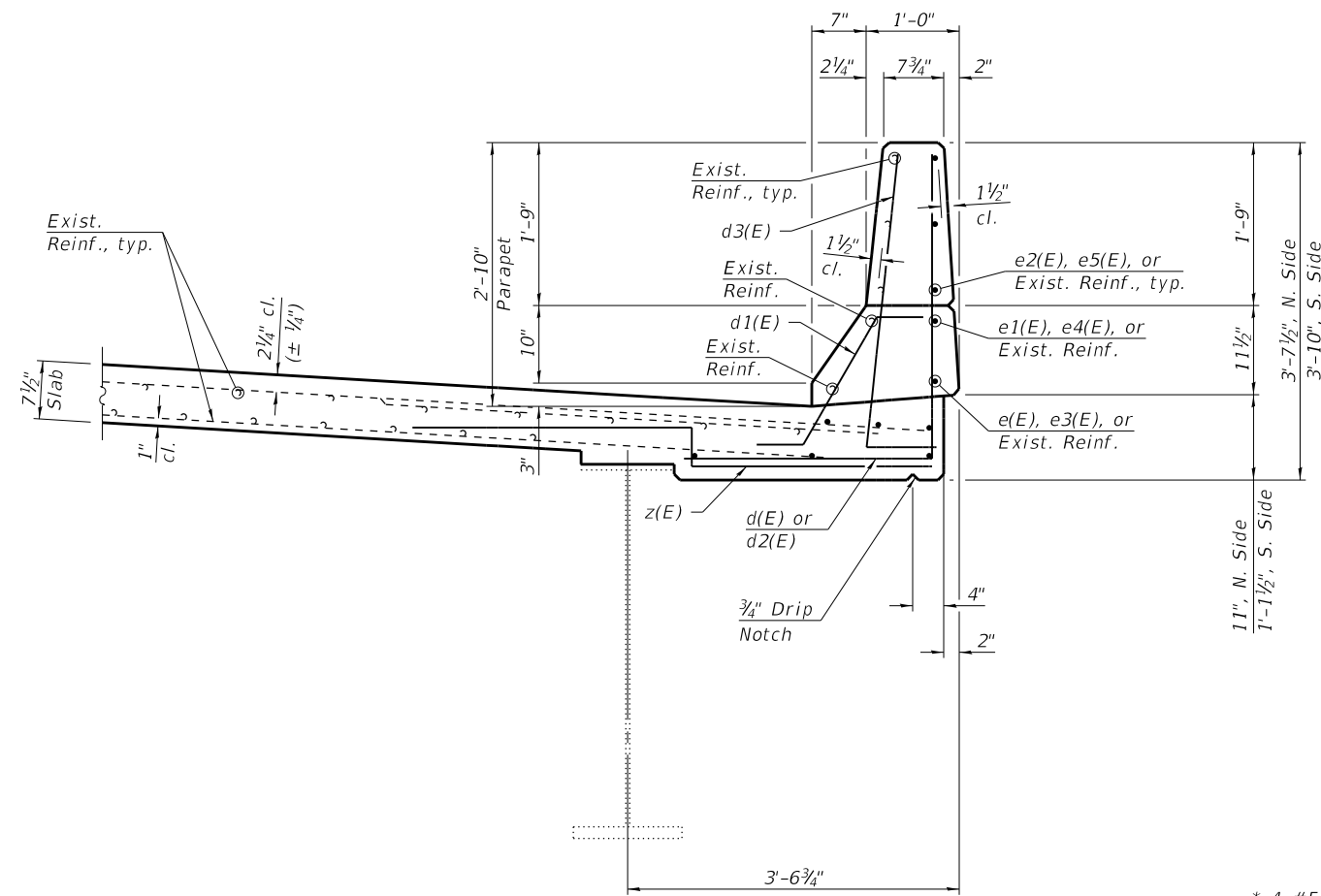
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE REPAIR DETAILS
 STRUCTURE NO. 060-0059**

SHEET 5 OF 11 SHEETS

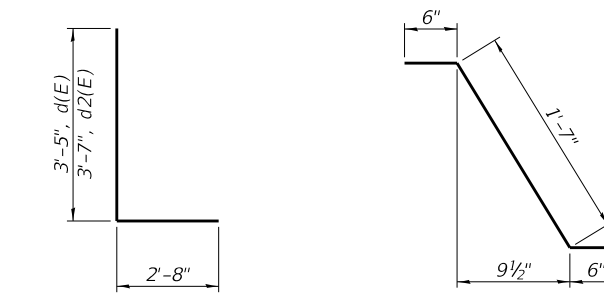
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	103
CONTRACT NO. 76H84				

ILLINOIS FED. AID PROJECT

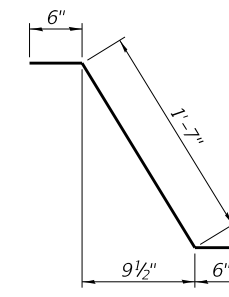


SECTION THRU PARAPET

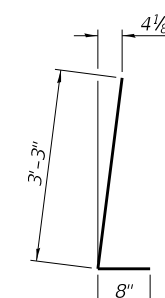
- * 4-#5 d3(E) bars at 11" cts., Inside Face
- ** 8-#5 d3(E) bars at 11" cts., Inside Face
- *** 4-#5 d3(E) bars at 11" cts., Inside Face
- **** 6-#5 d3(E) bars at 11" cts., Inside Face



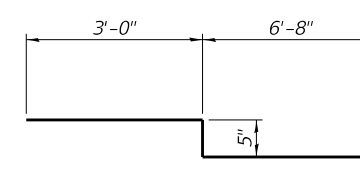
BARS d(E) & d2(E)



BAR d1(E)



BAR d3(E)

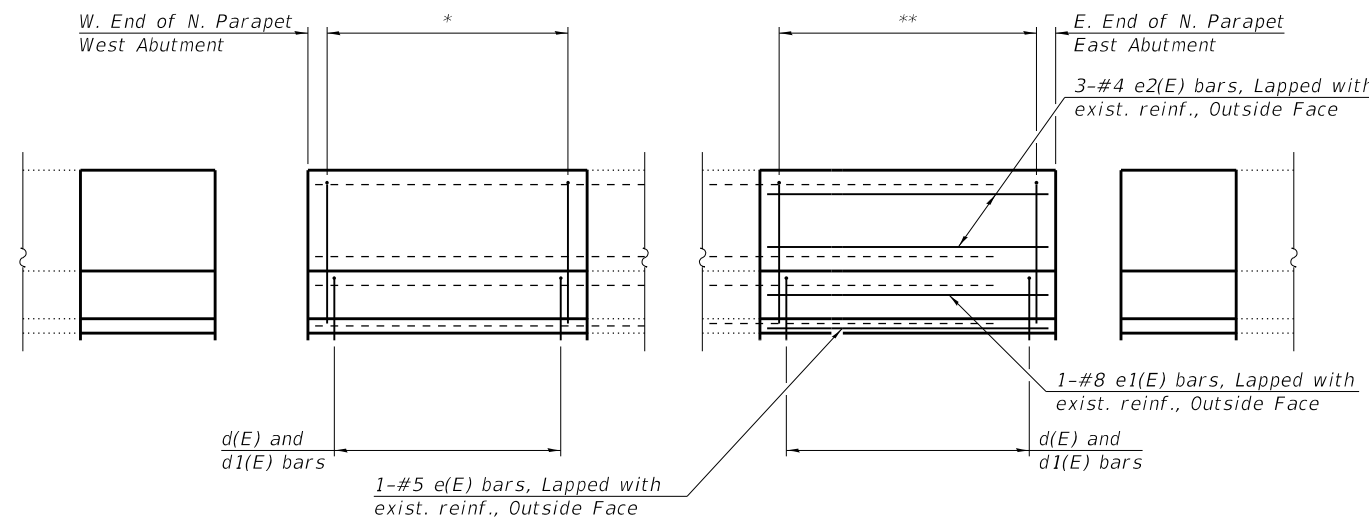


BAR z(E)

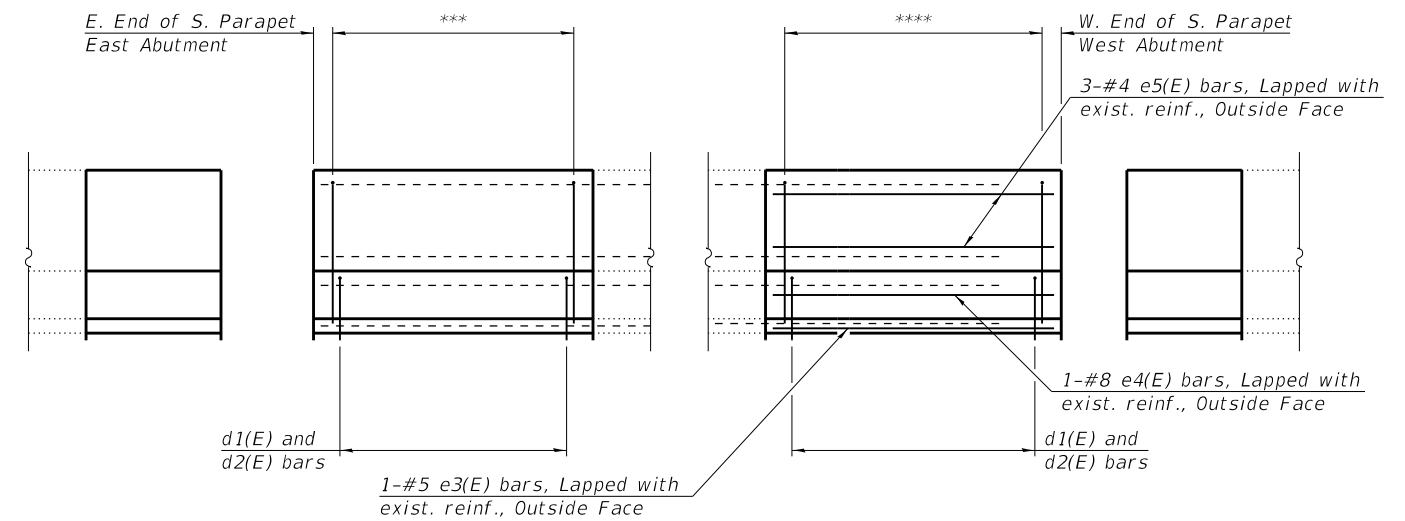
**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	16	#5	39'-7"	—
a1(E)	24	#5	34'-2"	—
d(E)	11	#4	6'-1"	┘
d1(E)	22	#5	2'-7"	┘
d2(E)	9	#4	6'-3"	┘
d3(E)	22	#5	3'-11"	┘
e(E)	1	#5	7'-1"	—
e1(E)	1	#8	7'-1"	—
e2(E)	3	#4	7'-1"	—
e3(E)	1	#5	5'-1"	—
e4(E)	1	#8	5'-1"	—
e5(E)	3	#4	5'-1"	—
z(E)	16	#6	10'-1"	┘
Concrete Removal			Cu. Yd.	16.1
Concrete Superstructure			Cu. Yd.	12.9
Reinforcement Bars, Epoxy Coated			Pound	2,060

Notes:
Cut ends of existing reinforcement bars extending into new construction to maintain 1 1/2" minimum clearance.
For Superstructure Details not shown, see sheet 5 of 11.
For Concrete Removal Details, see sheet 4 of 11.

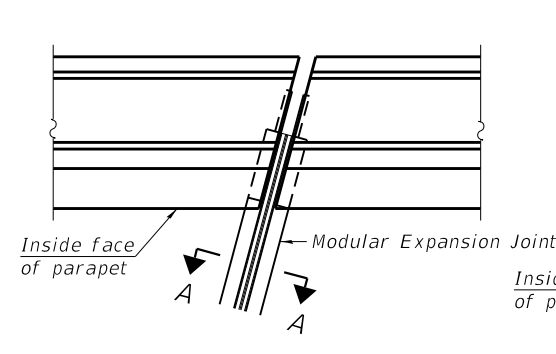


INSIDE ELEVATION OF PARAPET
(North Parapet)



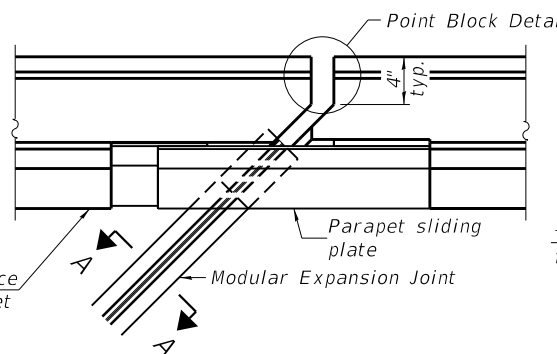
INSIDE ELEVATION OF PARAPET
(South Parapet)

MODEL: G:\FE\jobs\2019\19-1402_PTB_190-32_VARIOUS PHASE I & II D8 - HMG\WO-02\CADD_Sheets\0600059-76H84-006-Superstructure_Details.dgn
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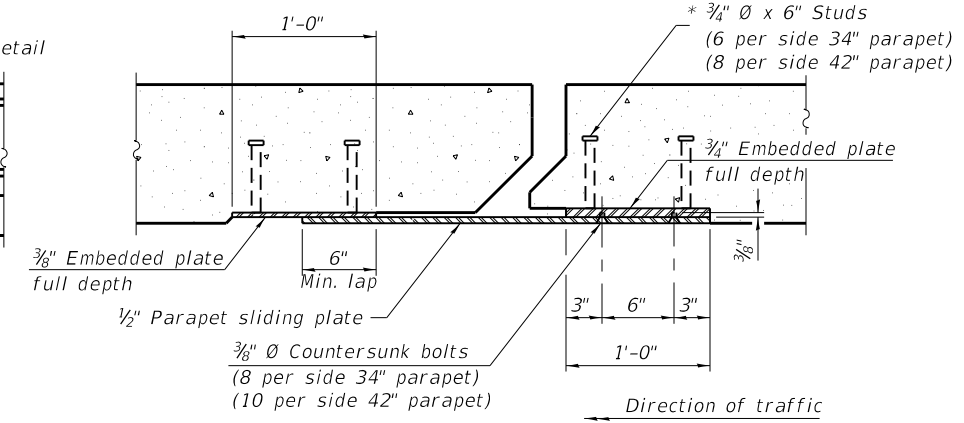


FOR SKEWS $\leq 30^\circ$

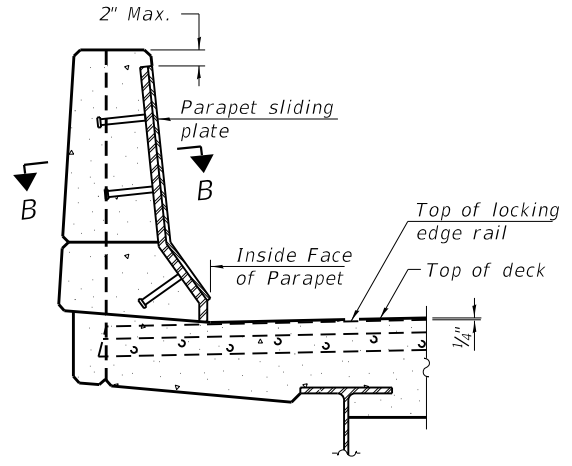
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

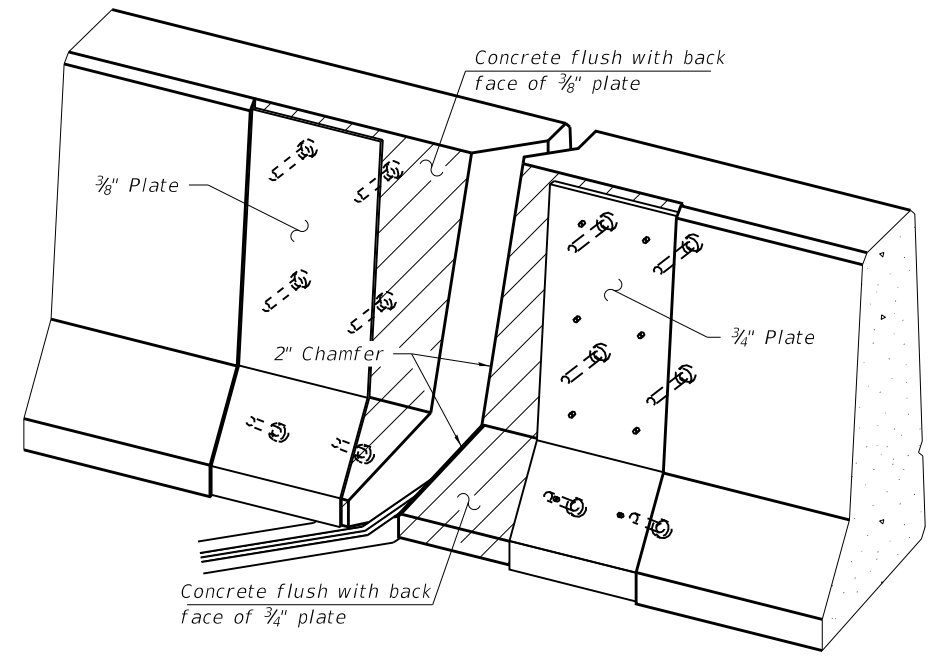


SECTION B-B



ELEVATION AT PARAPET

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



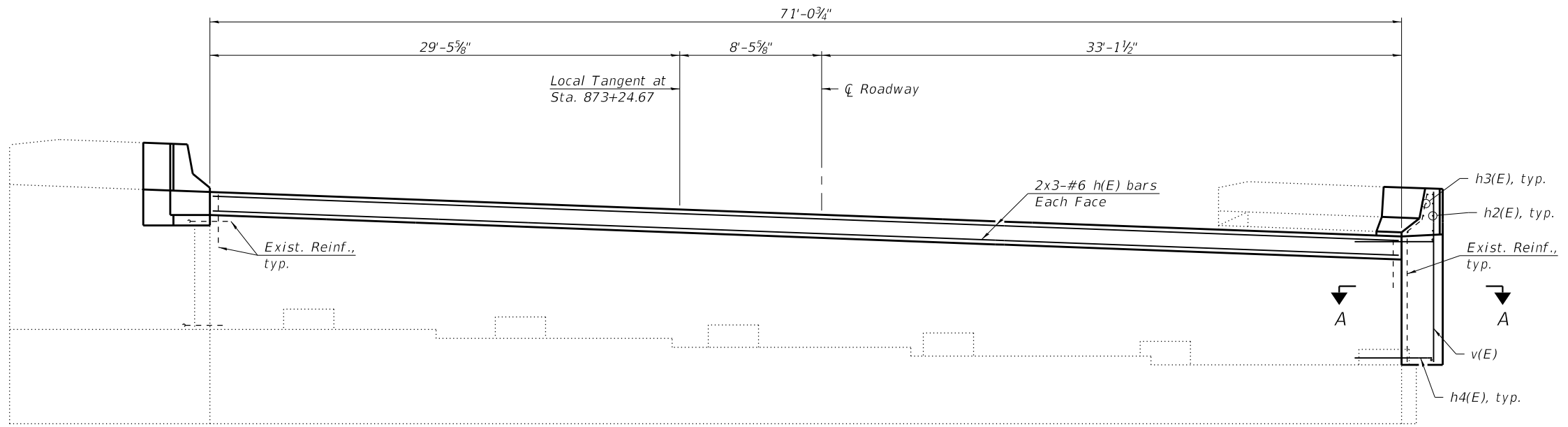
TRIMETRIC VIEW
(Showing embedded plates only)

Notes:
The manufacturer's recommended installation methods shall be followed.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Modular Expansion Joint, 6in. 34" F-shape barrier shown, 42" F-shape similar as noted.
For Section A-A, see sheet 5 of 11.

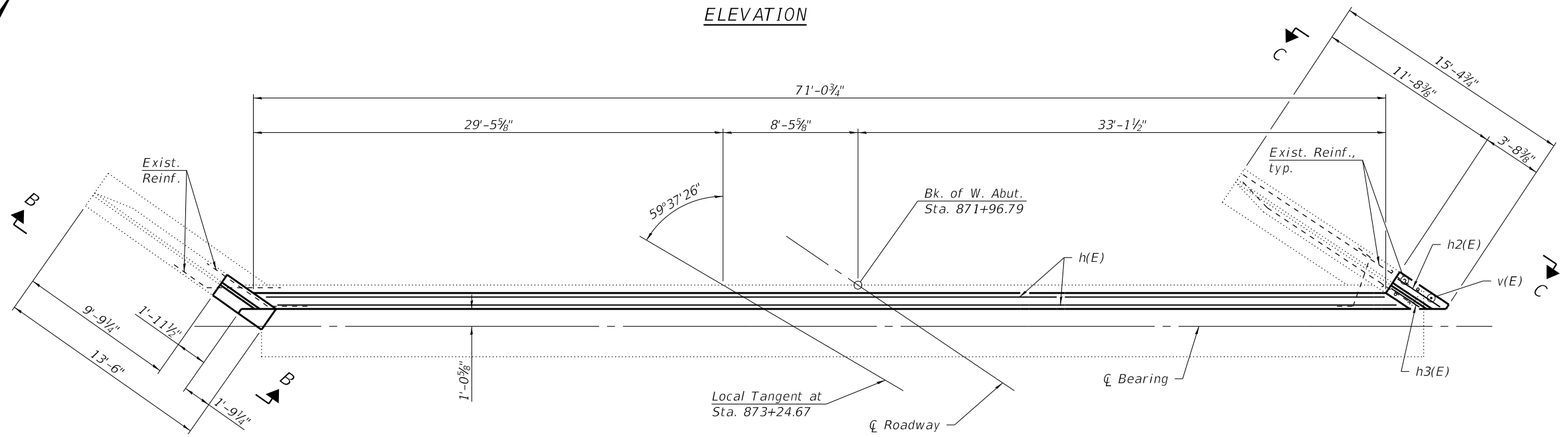
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6/16/2020 9:52:19 AM

USER NAME =	DESIGNED - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - T.S. Friederich	REVISED -
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -

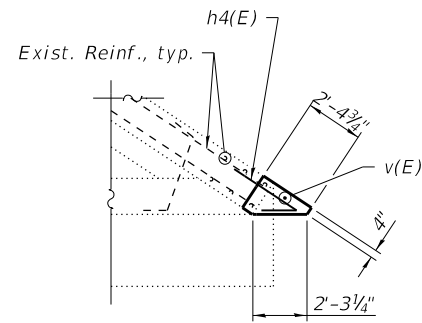
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	105
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				



ELEVATION



TOP VIEW



SECTION A-A

MIN. BAR LAP
#6 bar = 5'-4"

Note:
For Views B-B and C-C, see sheet 10 of 11.

MODEL: G:\FE\Jobs\2019\19-1402_PTB_190-32_VARIOUS PHASE I & II D8 - HMG\WO-02\CADD\Sheets\0600059-76H84-008-West Abutment_Details.dgn
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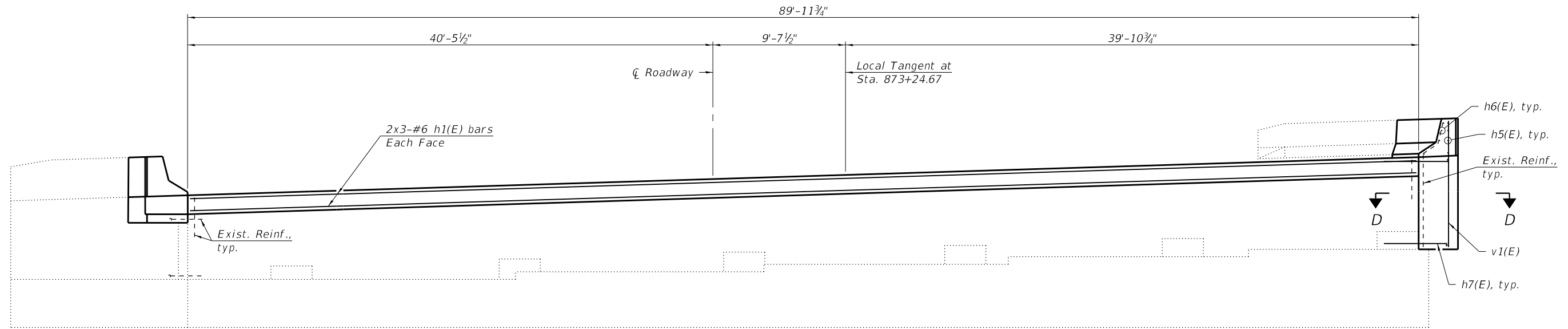
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PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

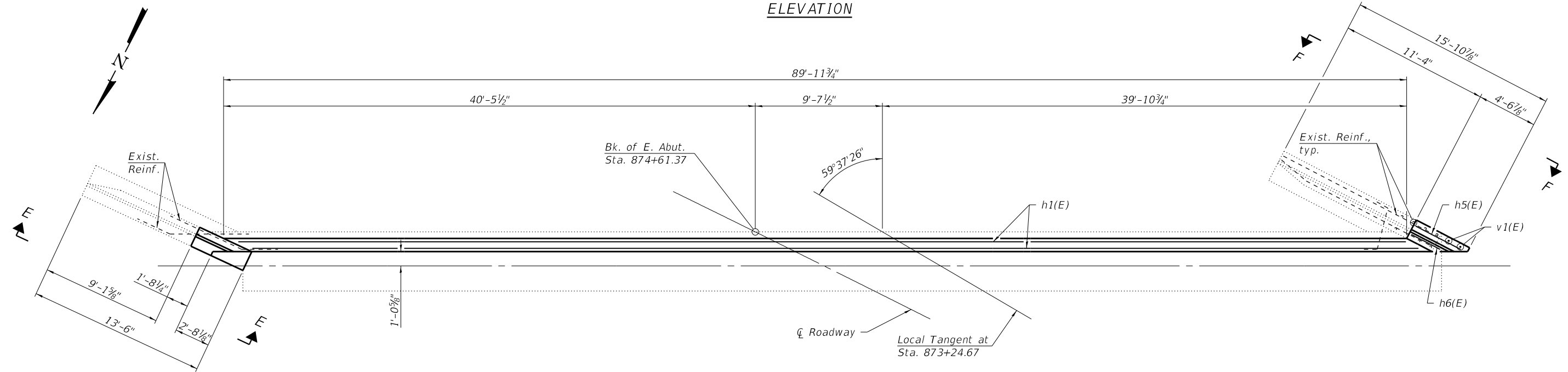
WEST ABUTMENT DETAILS
STRUCTURE NO. 060-0059

SHEET 8 OF 11 SHEETS

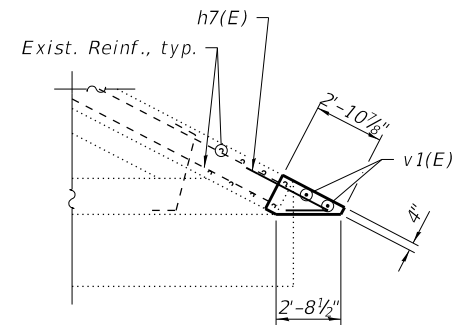
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	106
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				



ELEVATION



TOP VIEW



SECTION D-D

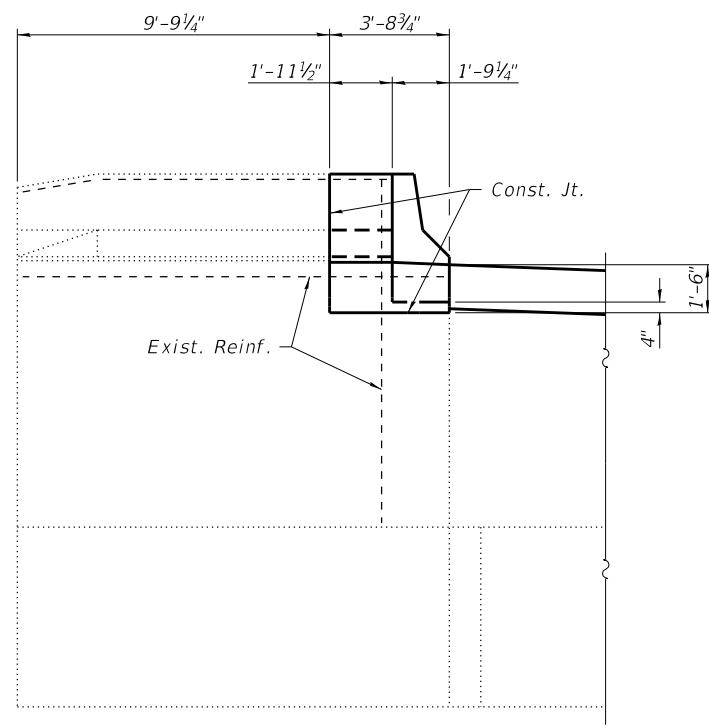
MIN. BAR LAP
#6 bar = 5'-4"

Note:
For Views E-E and F-F, see sheet 10 of 11.

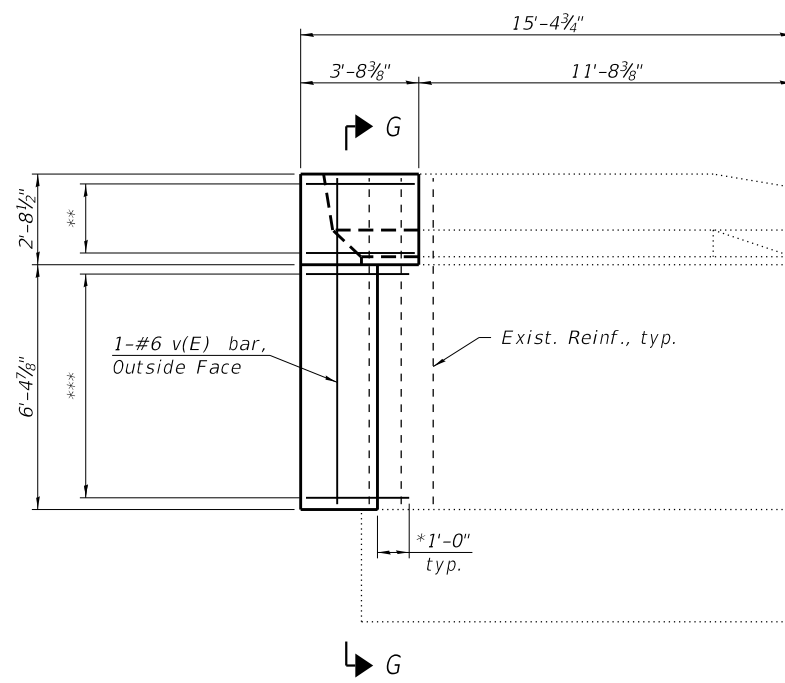
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USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

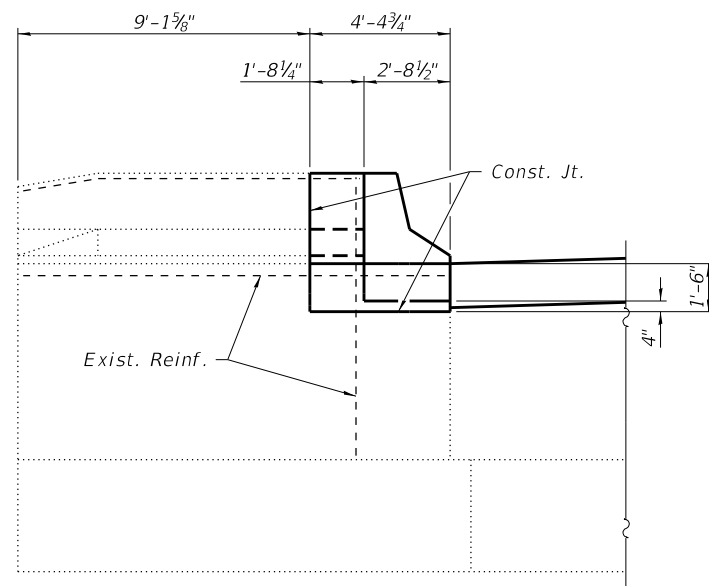
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70	60-(10-11)RS-1	MADISON	209	107
CONTRACT NO. 76H84				



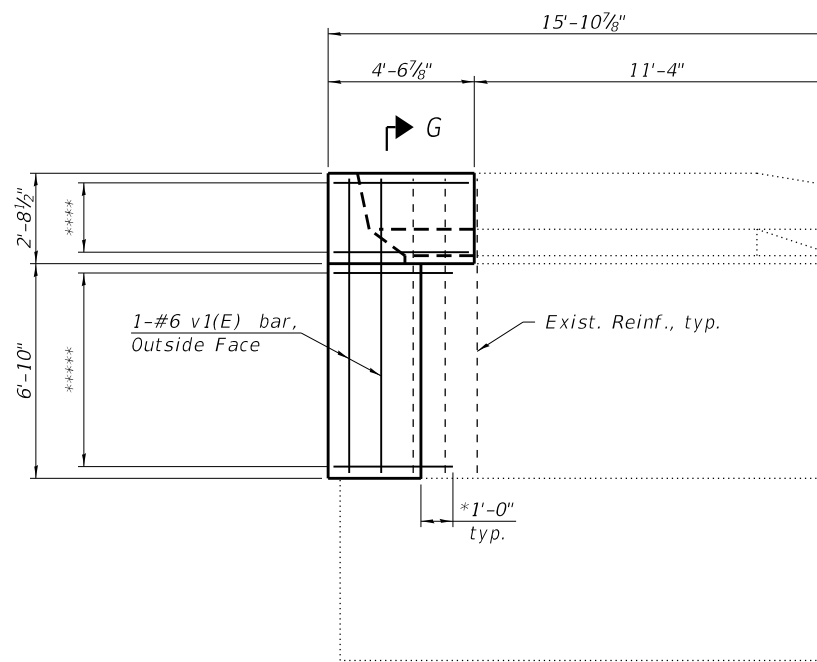
VIEW B-B



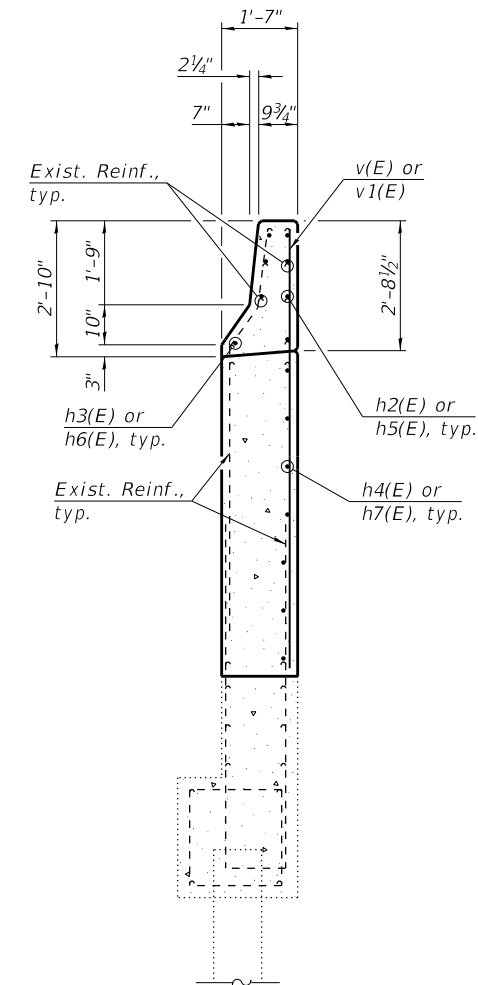
VIEW C-C



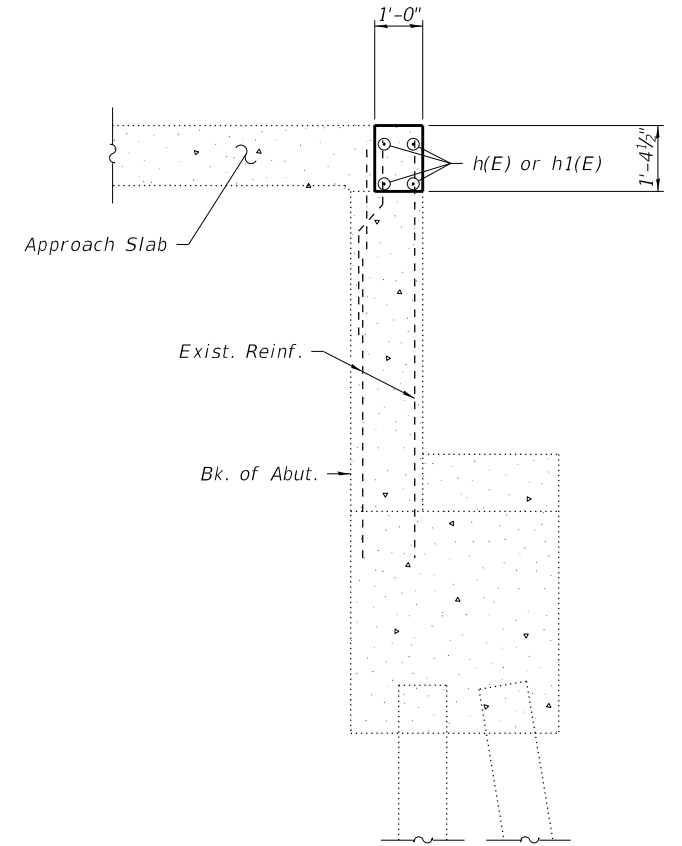
VIEW E-E



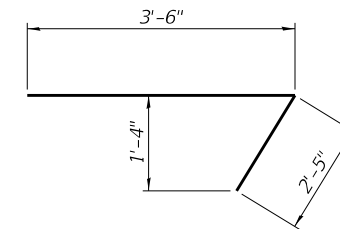
VIEW F-F



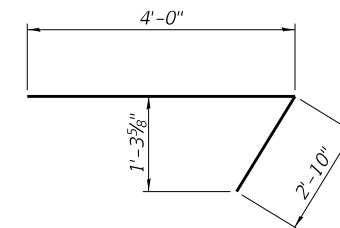
SECTION G-G



SECTION THRU ABUTMENT



BAR h4(E)



BAR h7(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	12	#6	28'-8"	—
h1(E)	12	#6	35'-5"	—
h2(E)	4	#4	3'-5"	—
h3(E)	3	#4	2'-10"	—
h4(E)	7	#4	5'-11"	7
h5(E)	4	#4	4'-4"	—
h6(E)	3	#4	3'-6"	—
h7(E)	7	#4	6'-10"	7
v(E)	1	#6	8'-11"	—
v1(E)	2	#6	9'-4"	—
Concrete Removal			Cu. Yd.	10.4
Concrete Superstructure			Cu. Yd.	11.2
Reinforcement Bars, Epoxy Coated			Pound	1,290

Notes:
All new concrete is included with Concrete Superstructure.
For Locations of Views B-B and C-C, see sheet 8 of 11.
For Locations of Views E-E and F-F, see sheet 9 of 11.
Cut existing reinforcement to maintain a 1/2" minimum clearance.

- * Drill and epoxy grout reinforcement according to Section 584 of the Standard Specifications.
- ** 4-#4 h2(E) bars, Lapped with Exist. Reinf., Outside Face
3-#4 h3(E) bars, Lapped with Exist. Reinf., Inside Face
- *** 7-#4 h4(E) bars, Lapped with Exist. Reinf., Outside Face
- **** 4-#4 h5(E) bars, Lapped with Exist. Reinf., Outside Face
3-#4 h6(E) bars, Lapped with Exist. Reinf., Inside Face
- ***** 7-#4 h7(E) bars, Lapped with Exist. Reinf., Outside Face

MODEL: G:\FE\Jobs\2019\19-1402_PTB 190-32 VARIOUS PHASE I & II D8 - HMG\W0-02\CADD\CADD Sheets\0600059-76H84-010-Abutment_Details.dgn
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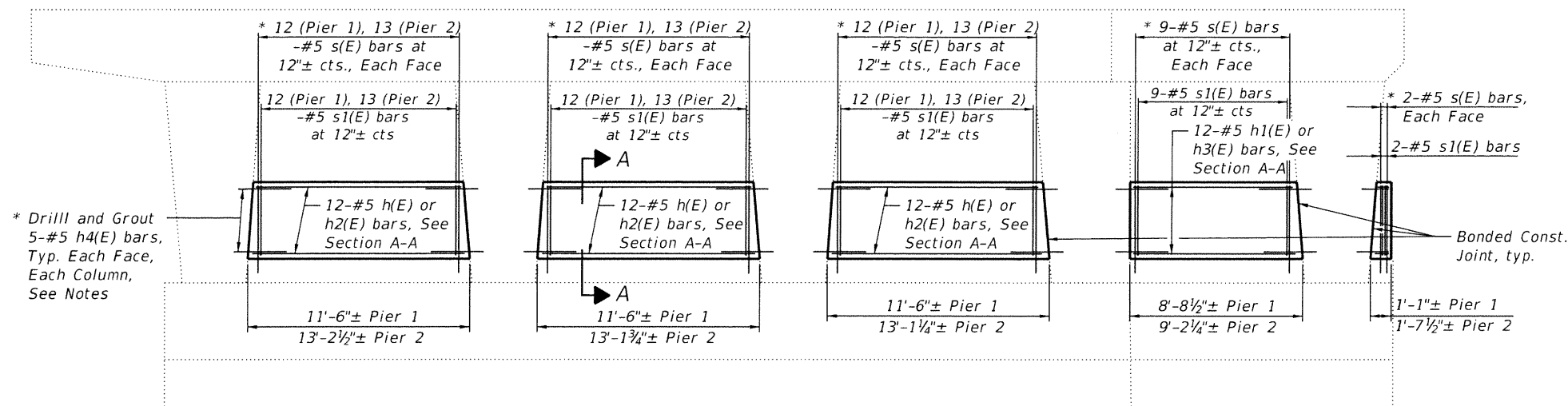
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PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
STRUCTURE NO. 060-0059

SHEET 10 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	108
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				



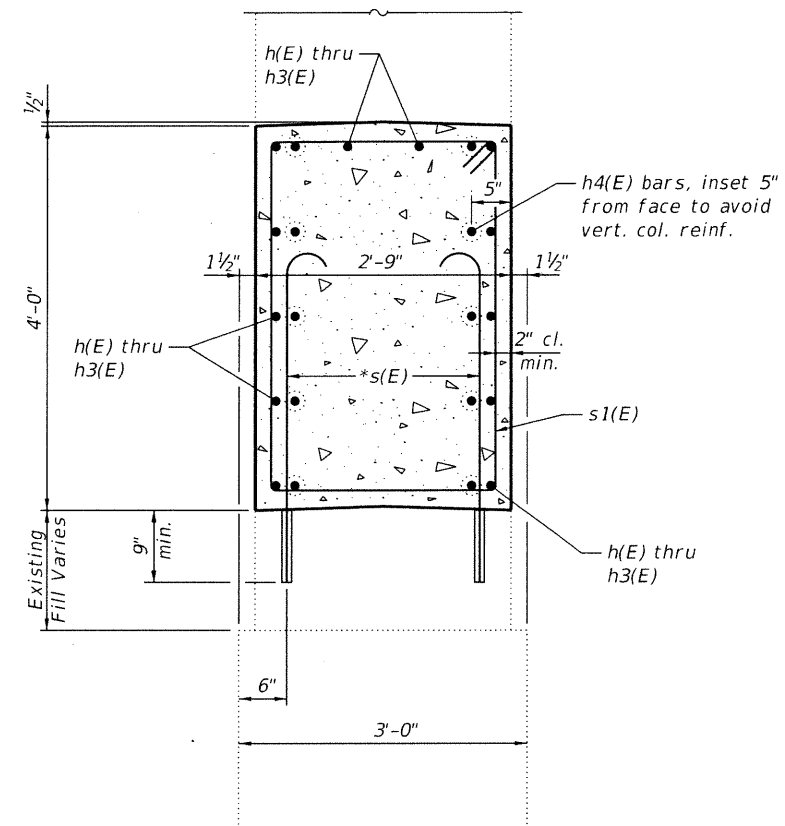
* Drill and Grout 5-#5 h4(E) bars, Typ. Each Face, Each Column, See Notes

ELEVATION

Reinforcement details are typical at all Crashwall Extension locations.

Cut bars h(E) thru h4(E) in field as required to fit.

* Epoxy grout bars in 9" min. holes according to Article 584 of the Standard Specifications.



SECTION A-A

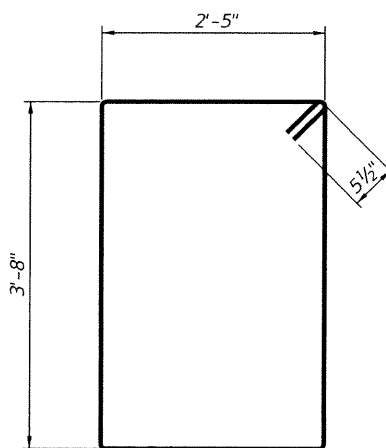
NOTES:

The cost of epoxy grouting reinforcement shall be included with Reinforcement Bars (Epoxy Coated).

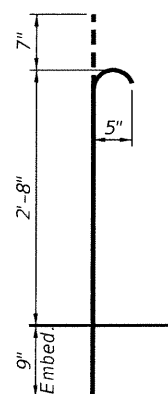
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.



BAR s1(E)



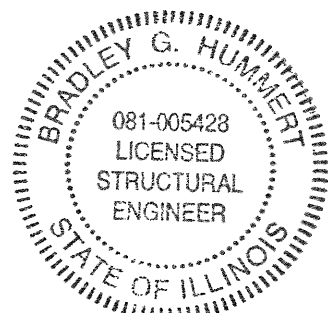
BAR s(E)

**PIER 1
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	36	#5	11'-2"	—
h1(E)	12	#5	8'-4"	—
h4(E)	80	#5	2'-9"	—
s(E)	47	#5	4'-0"	U
s1(E)	47	#5	13'-1"	□
Concrete Structures			Cu Yd	17.5
Reinforcement Bars, Epoxy Coated			Pound	1,600

**PIER 2
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h2(E)	36	#5	12'-10"	—
h3(E)	12	#5	8'-10"	—
h4(E)	80	#5	2'-9"	—
s(E)	50	#5	4'-0"	U
s1(E)	50	#5	13'-1"	□
Concrete Structures			Cu Yd	19.9
Reinforcement Bars, Epoxy Coated			Pound	1,720



Bradley G. Hummert Date: 6/17/20
Bradley G. Hummert
Licensed Structural Engineer
in Illinois No. 081-005428

CRASHWALL EXTENSION DETAILS
E.B. F.A.I. 270 OVER W.B. F.A.I. 70

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRASHWALL EXTENSION DETAILS
STRUCTURE NO. 060-0059

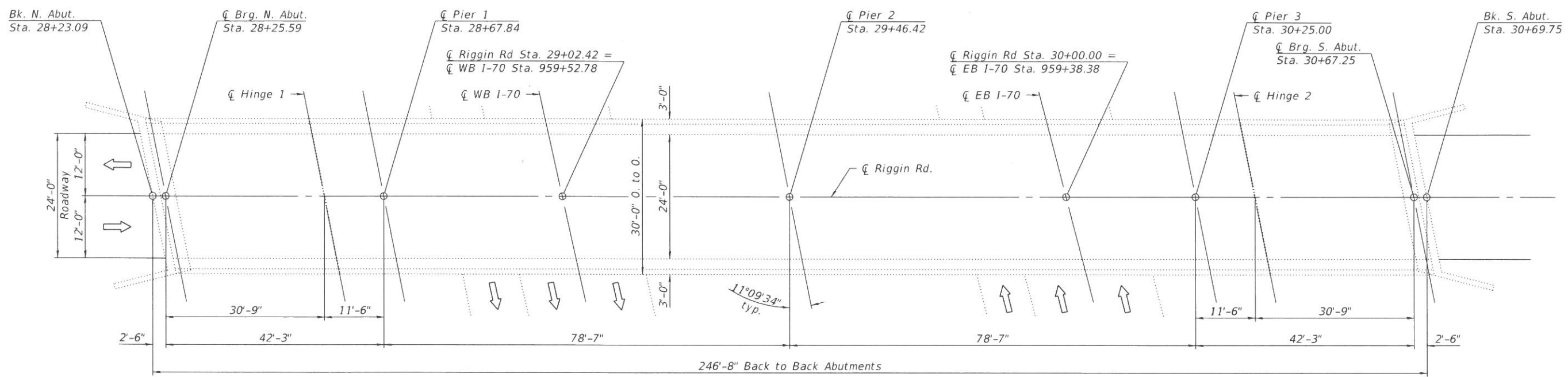
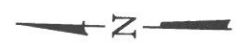
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	109
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

SHEET 11 OF 11 SHEETS

MODEL: Default
FILE NAME: H:\7882_IDOT_D8_Van17882_02_WO2_76H84_170_Resurfacing\CAD_Sheets\08176H84-int-0600059-CrashwallExtension.dgn
6/17/2020 2:53:15 PM

HMG HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
(618) 526-9611

USER NAME	DESIGNED	CHECKED	DRAWN	PLOT DATE
-	LDG	BGH	KIIL	-
REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS
-	LDG	LDG	LDG	LDG



PLAN

SCOPE OF WORK

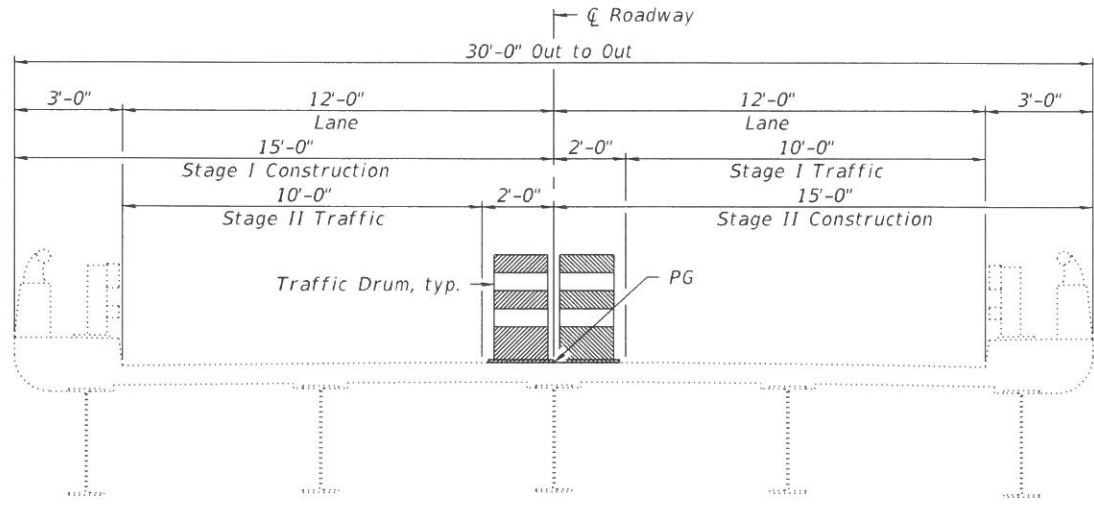
1. Remove and replace Silicone Joint Seal over Hinges

GENERAL NOTES

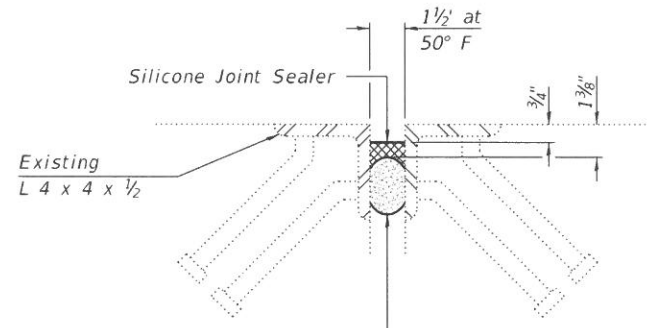
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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 based at the unit price bid for the work.

TOTAL BILL OF MATERIAL

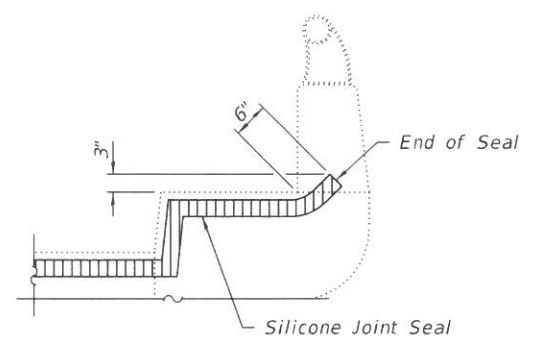
ITEM	UNIT	SUPER	SUB	TOTAL
Silicone Joint Sealer, 1.5"	Foot	62	---	62



CROSS SECTION
(Looking South)



SILICONE JOINT SEALER DETAIL



TYPICAL END OF SEAL TREATMENT
AT EXPANSION JOINT



Eric Lagemann 6/17/2020
License Expires 11/30/2020 Date

GENERAL PLAN
RIGGIN ROAD OVER I-70
F.A.I. ROUTE 70
SECTION 60-(10-11)RS-1
MADISON COUNTY
STATION 959+42.70
STRUCTURE NO. 060-0173

MODEL: Default
FILE NAME: G:\FEI\jobs_2019\19-1402_PTB_190-32_VARIOUS PHASE I & II DB - HMC\WO-02\CADD\CADD Sheets\0600173-76H84-001-GPE.dgn
6/16/2020 9:28:38 AM



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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN - E.M. Lagemann	REVISED -
	CHECKED - T.S. Friederich	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

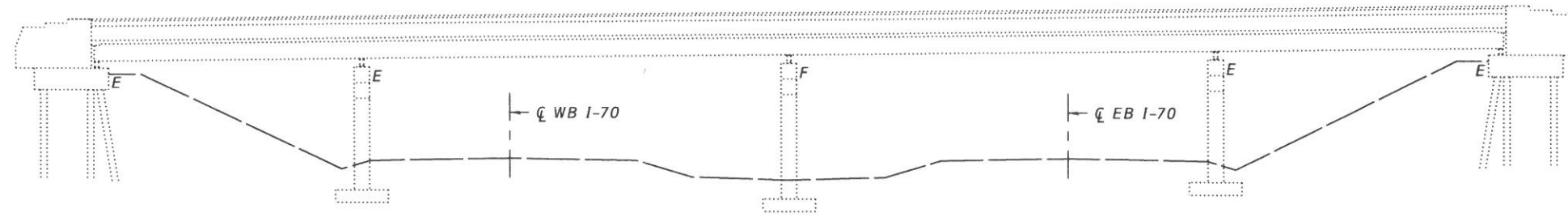
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	110
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

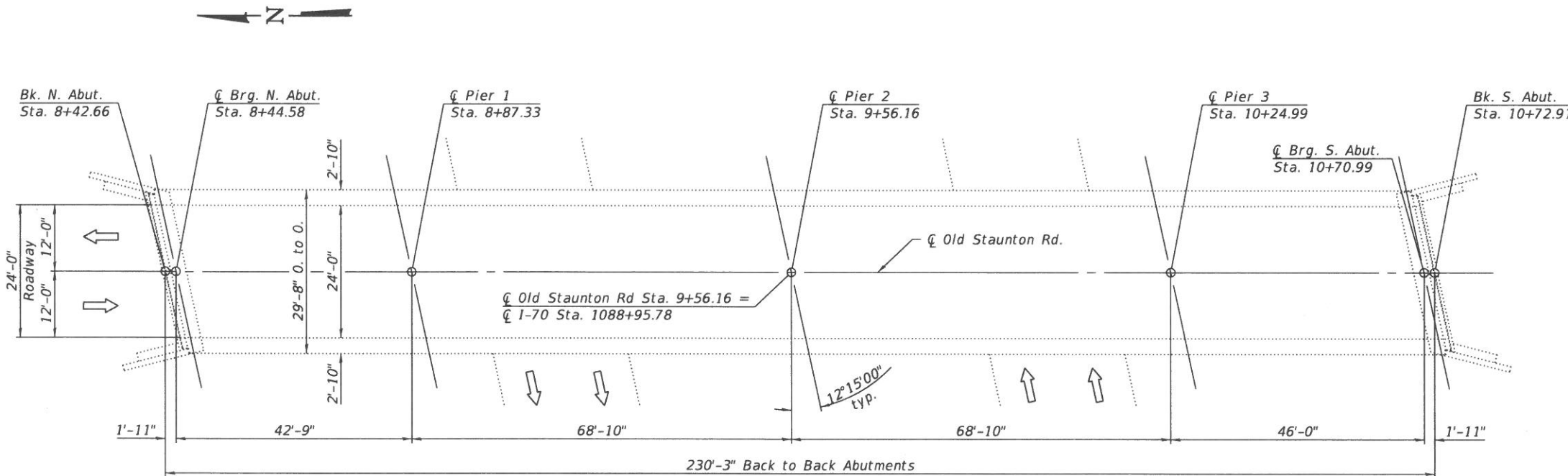
- 1. General Plan
- 2. Existing Plans

SCOPE OF WORK

- 1. Paint all structural steel



ELEVATION



PLAN

GENERAL NOTES

The painting Contractor shall be SSPC-QP 1 and SSPC-QP 2 certified for this project and shall maintain certification throughout the duration of the project.

Cleaning and Painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning - SSPC - SP10. The designated areas cleaned per Near White Blast Cleaning shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray, Munsell No. 5B 7/1.

A minimum of 2 high volume air monitors will be required to monitor air quality during dust producing operations at this site. See Special Provisions for "Containment and Disposal of Lead Paint Cleaning Residues."

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1	---	1
Cleaning and Painting Steel Bridge No. 1	L Sum	1	---	1



Eric Lagemann 6/17/2020
License Expires 11/30/2020 Date

GENERAL PLAN
OLD STAUNTON ROAD OVER I-70
F.A.I. ROUTE 70
SECTION 60-(10-11)RS-1
MADISON COUNTY
STATION 1088+95.78
STRUCTURE NO. 060-0174

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	111

CONTRACT NO. 76H84

MODEL: G:\PE\jobs\2019\19-1402 PTB 190-32 VARIOUS PHASE I & II DB - HMC\WO-02\CADD\CADD Sheets\0600174-76H84-001-GPE.dgn

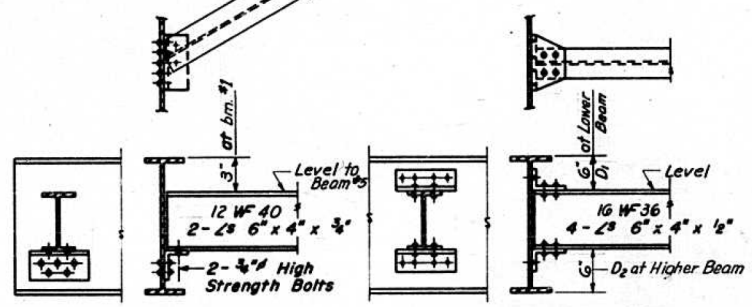
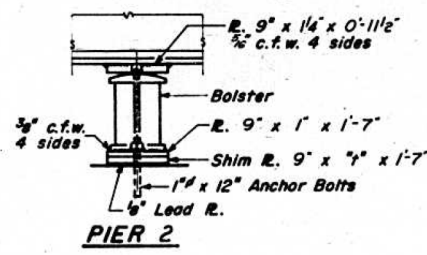
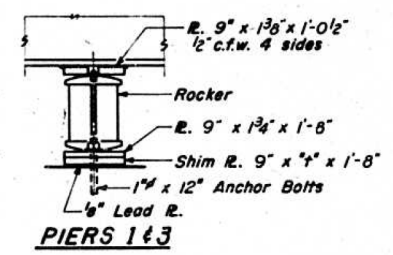
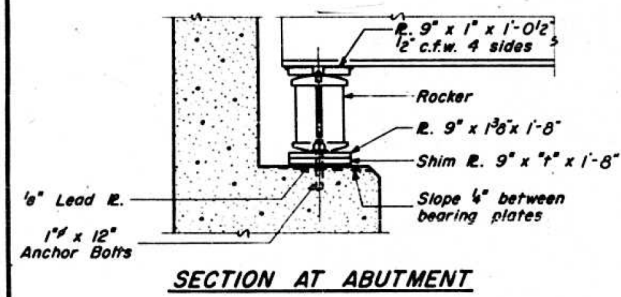
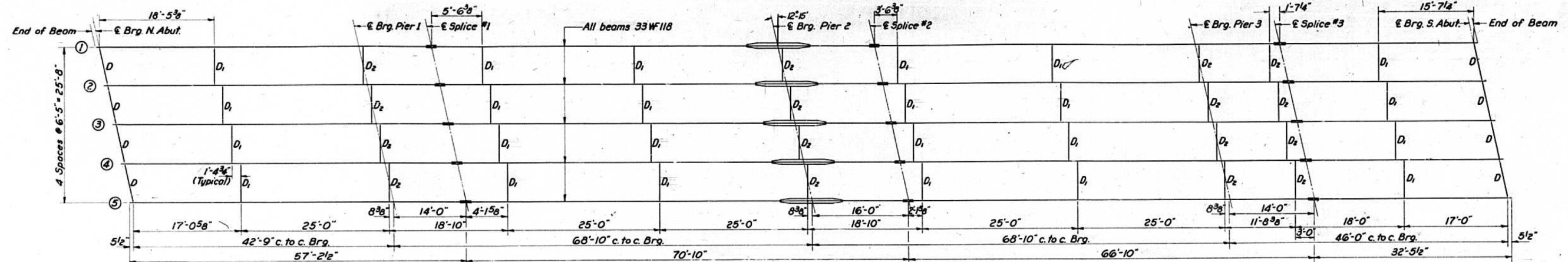
FUHRMANN
ENGINEERING
WWW.FUHRMANN-ENG.COM

USER NAME *	DESIGNED - --	REVISED -
PLOT SCALE *	CHECKED - --	REVISED -
PLOT DATE *	DRAWN - E.M. Lagemann	REVISED -
	CHECKED - T.S. Friederich	REVISED -

FOR INFORMATION ONLY

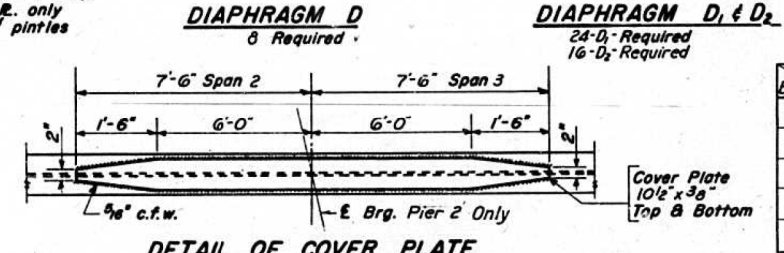
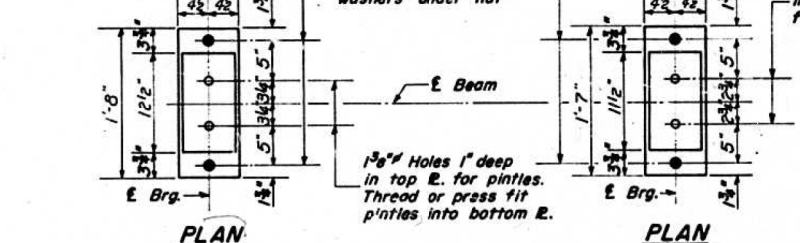
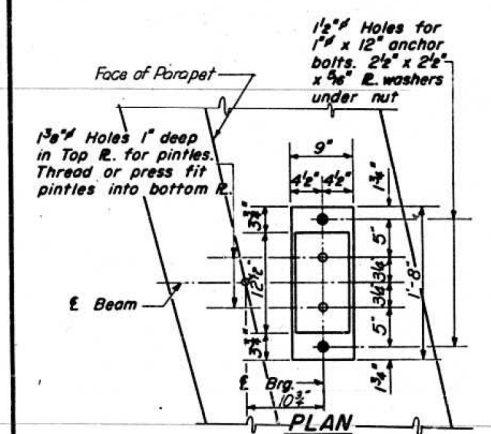
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7-20-62	60-1118	MADISON	119	31
SHEET NO. 3 10 SHEETS				



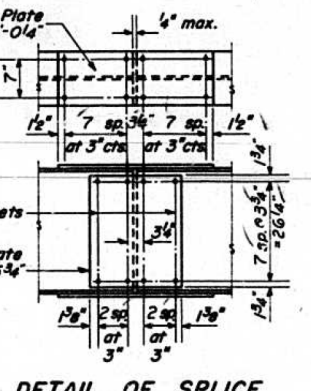
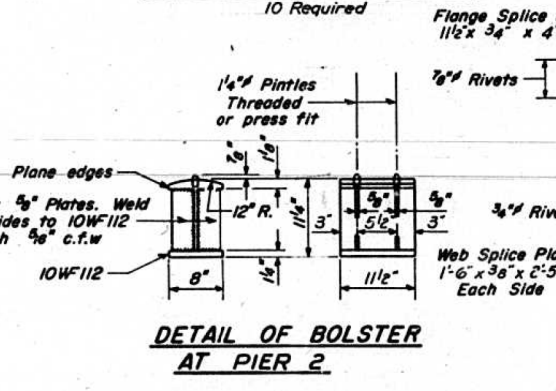
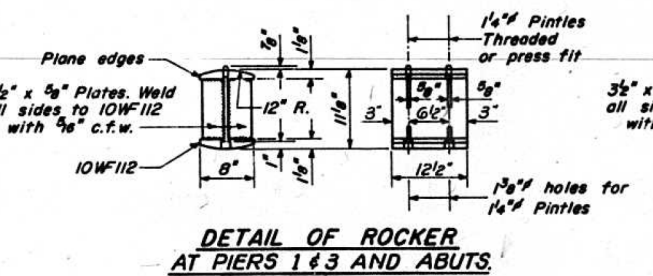
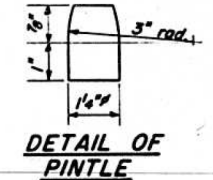
SHIM "t" DIMENSIONS

Beam	E Brg. N. Abut.	Pier 1	Pier 2	Pier 3	E Brg. S. Abut.
#1	0	0	0	0	0
#2	0	0	0	0	0
#3	1/2"	1/2"	1/2"	1/2"	1/2"
#4	1/4"	1/4"	1/4"	1/4"	1/4"
#5	1/16"	1/16"	1/16"	1/16"	1/16"



ELEVATION TOP OF WF

Beam	E Brg. N. Abut.	E Brg. Pier 1	Splice #1	E Brg. Pier 2	Splice #2	E Brg. Pier 3	Splice #3	E Brg. S. Abut.
#1	50264	50305	50316	50373	50389	50440	50454	50490
#2	50275	50316	50327	50384	50400	50451	50465	50501
#3	50279	50321	50332	50389	50405	50456	50470	50506
#4	50277	50319	50330	50387	50403	50454	50468	50504
#5	50269	50310	50322	50379	50395	50446	50459	50496



STRUCTURAL STEEL
F.A.I. RT. 70 SEC. 60-1118
MADISON COUNTY
STA 1088+95.78

DESIGNED	Melvin Ramasius	EXAMINED	H.E. Bussman
CHECKED	TED TANAKA	PASSED	E.J. Shultz
DRAWN	J.L. Armstrong W.A. Sausman Jr.	APPROVED	J. J. Rimsay
CHECKED	J. J. Rimsay		

JULY 31 1962

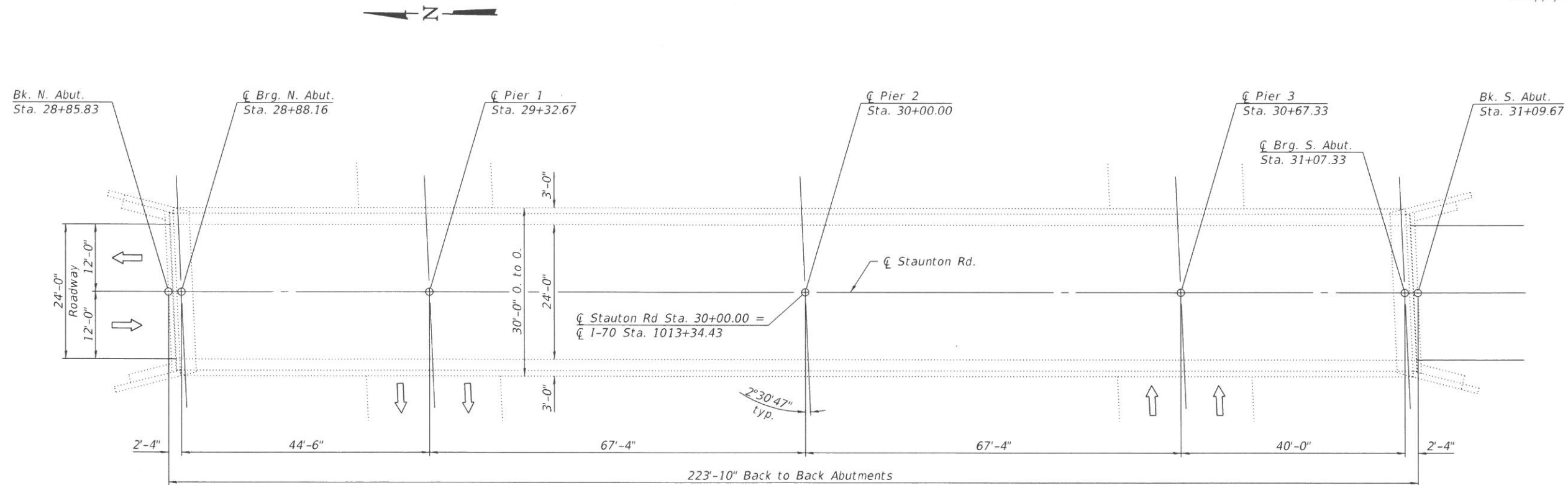
I-2-C 2-20-62

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USER NAME	DESIGNED	REVISIONS
	CHECKED	REVISIONS
PLOT SCALE	DRAWN	REVISIONS
PLOT DATE	CHECKED	REVISIONS

SCOPE OF WORK

1. Apply Concrete Sealer to deck and parapets



PLAN

GENERAL NOTES

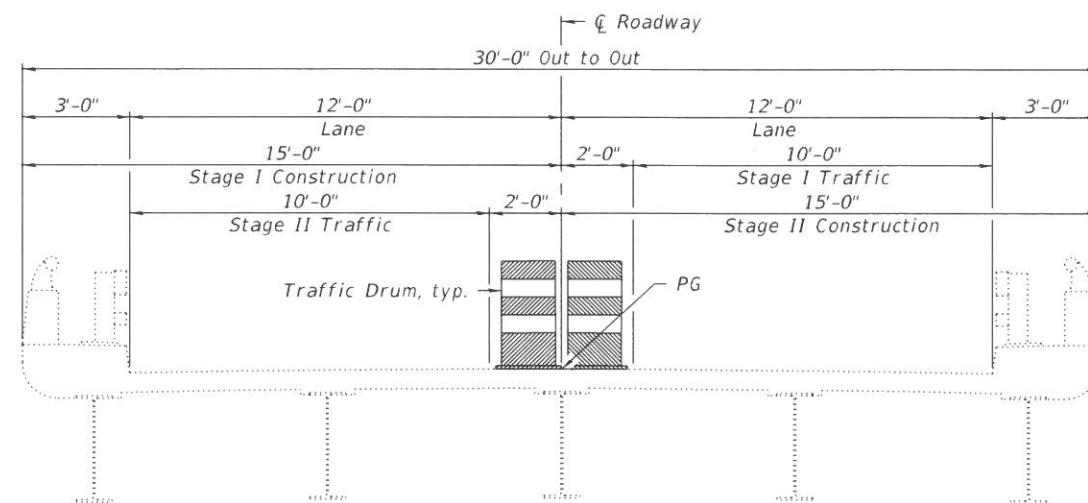
A Concrete Sealer shall be applied to the surfaces of the deck and parapets. See Special Provisions for Bridge Deck Concrete Sealer.

Existing pavement markings shall be temporarily covered prior to application of the deck surface treatment, to prevent the material from being applied over the markings. The temporary covering shall be removed after the application of the deck surface treatment and prior to opening to traffic. Cost included with Concrete Sealer.

Plan dimensions and details relative to 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 finished based at the unit price bid for the work.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Sealer	Sq. Ft.	7,805	---	7,805



CROSS SECTION
(Looking South)



Eric Lagemann 6/17/2020
License Expires 11/30/2020 Date

GENERAL PLAN
STAUNTON ROAD OVER I-70
F.A.I. ROUTE 70
SECTION 60-(10-11)RS-1
MADISON COUNTY
STATION 1013+34.43
STRUCTURE NO. 060-0182

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



USER NAME =	DESIGNED -	REVISIONS -
PLOT SCALE =	CHECKED -	REVISIONS -
PLOT DATE =	DRAWN - E.M. Lagemann	REVISIONS -
	CHECKED - T.S. Friederich	REVISIONS -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	113
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

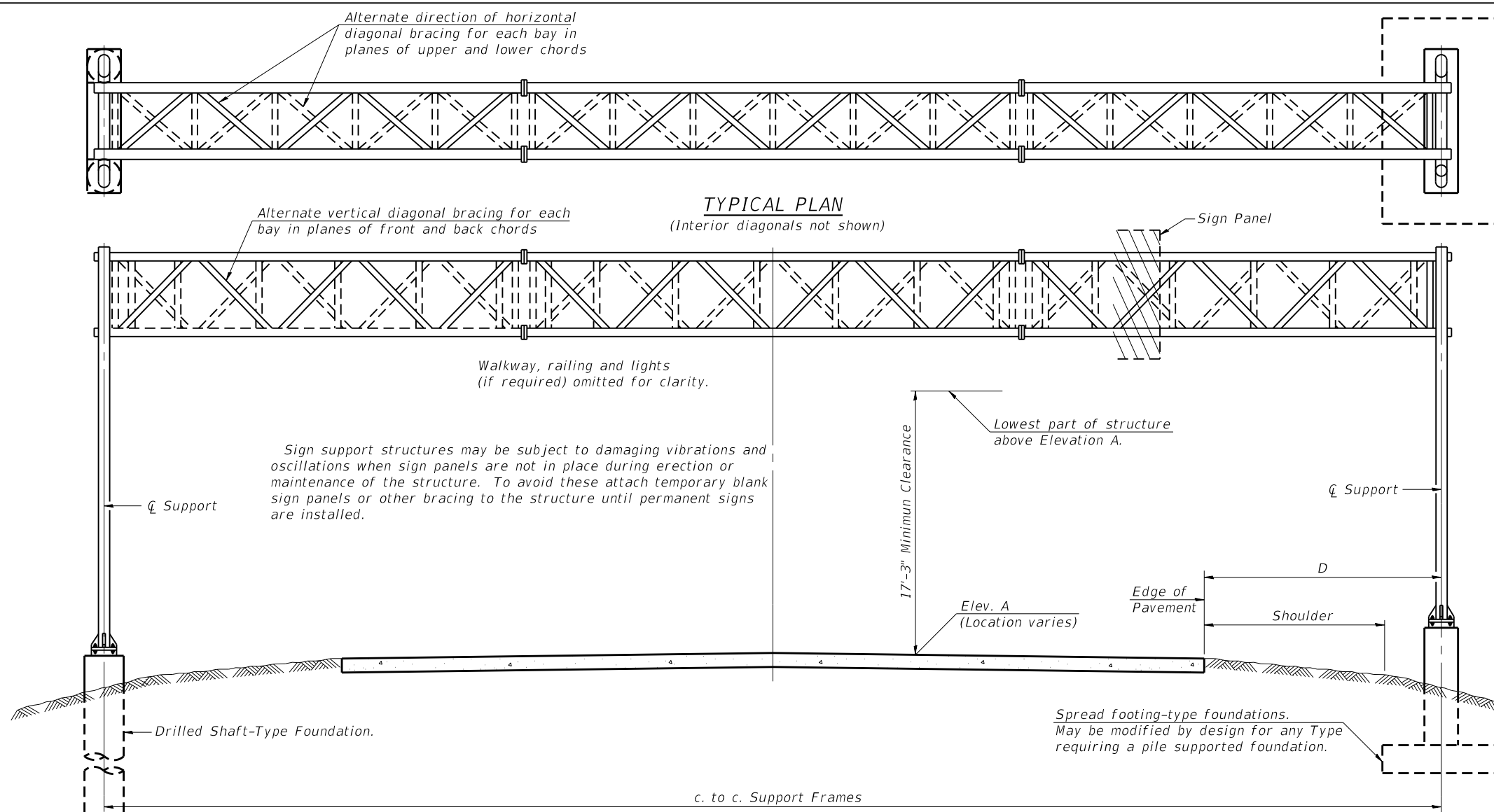
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	82.0
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	28.8
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds	20.2
REMOVE STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	Each	2
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	Each	2
REMOVE AND RE-ERECT OVERHEAD SIGN SUPERSTRUCTURE - SPAN	Each	1



TYPICAL ELEVATION
(Looking at Face of Signs**)

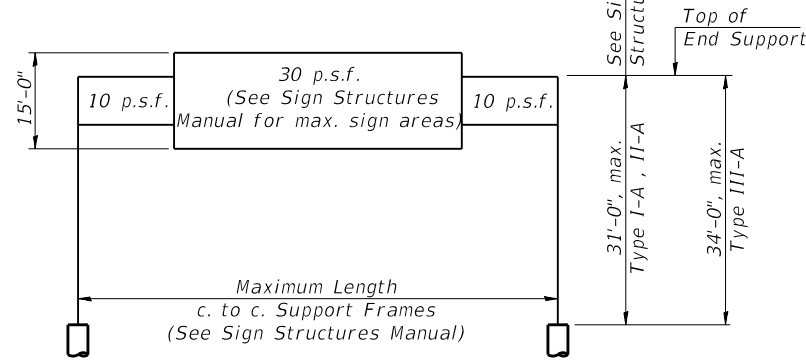
Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
8S0601070L016.2	1000+12.00	I-A	82'-0"	529.42	16'-0"	15'-0"	240

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

Note:
Sign Structure Number 8S0601270L015.3 shall be removed and re-erected with new supports.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

05-A-1 2-17-2017



USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - GENERAL PLAN &
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS

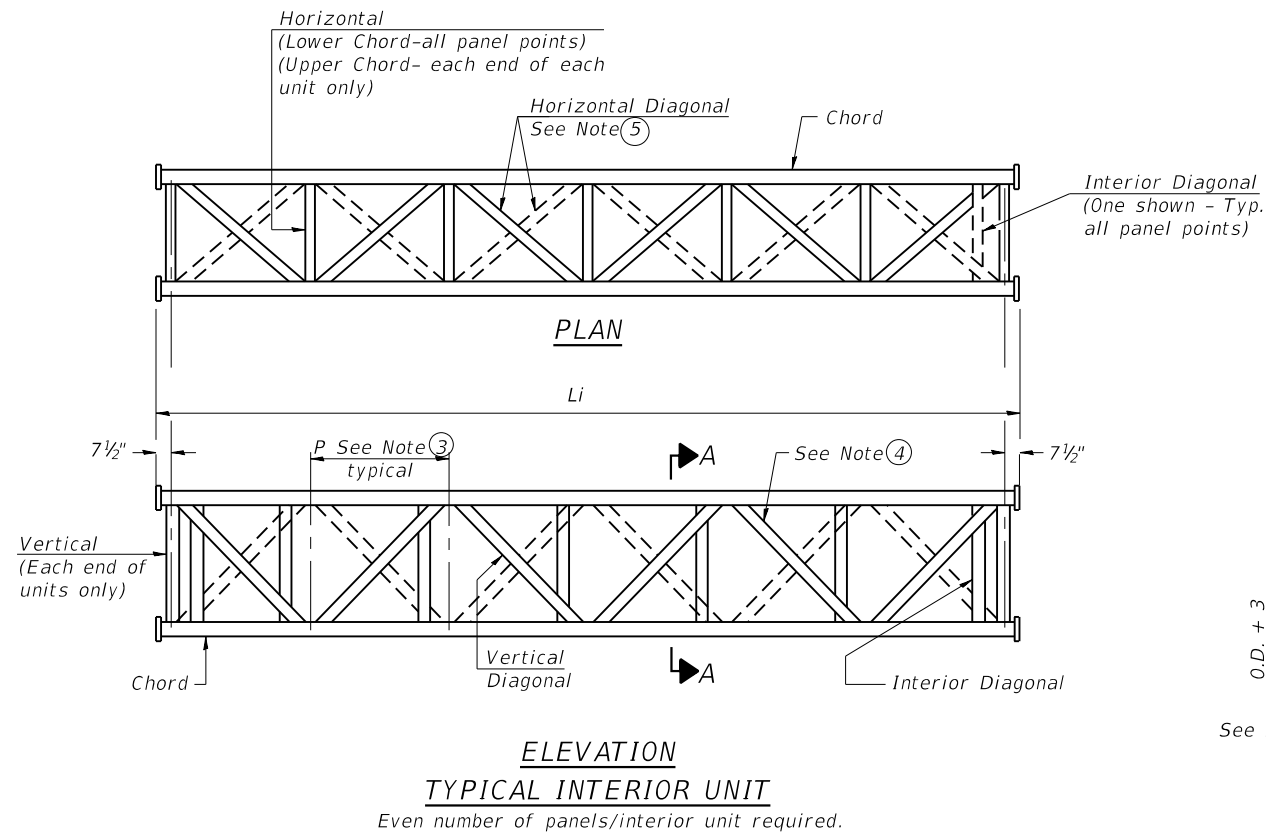
SHEET 1 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	114
CONTRACT NO. 76H84				

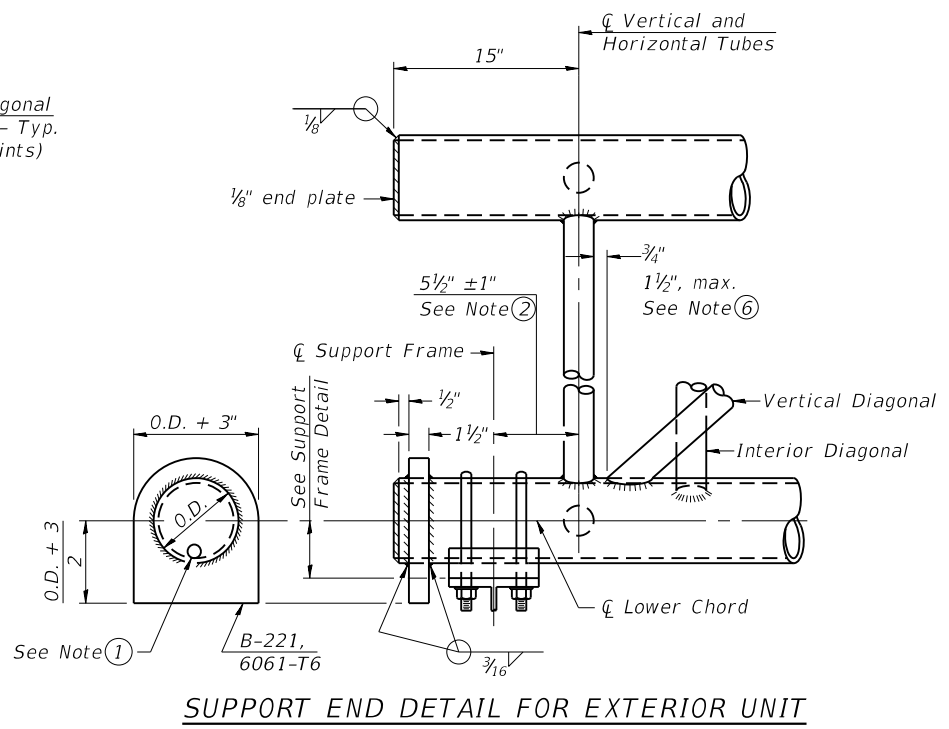
ILLINOIS FED. AID PROJECT

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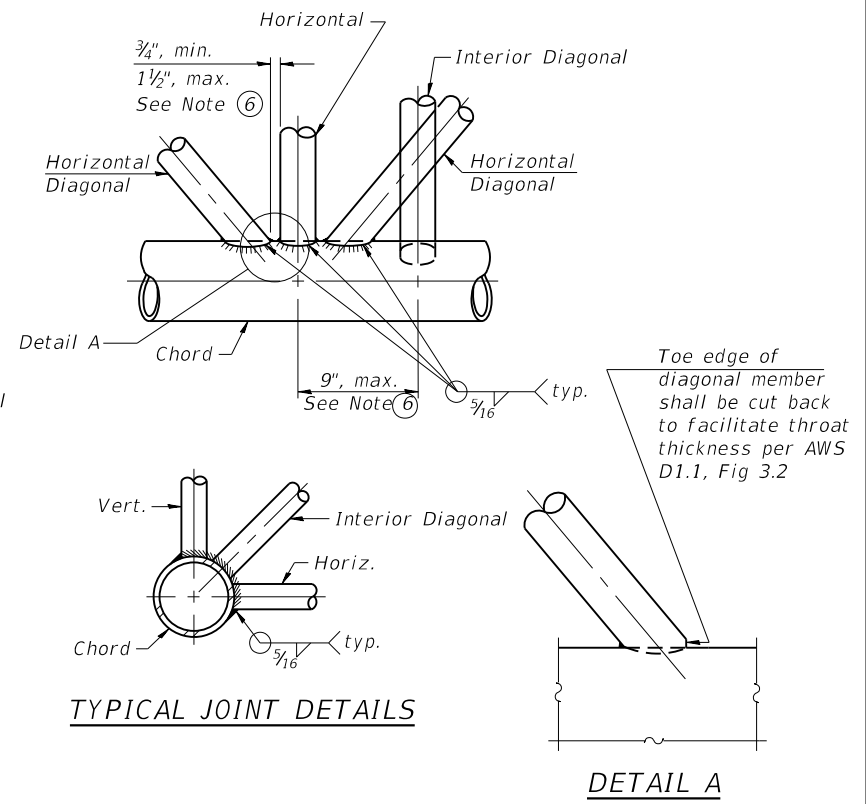
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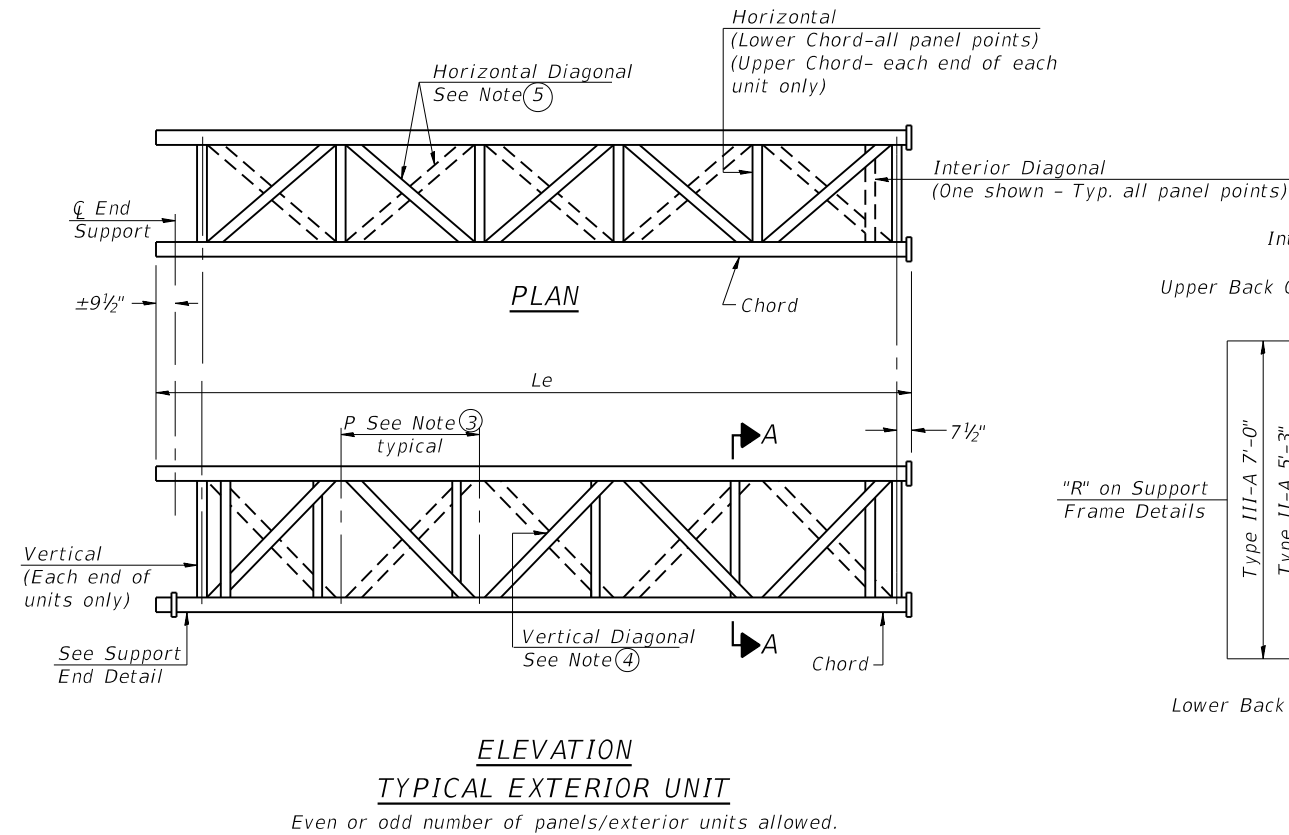
**ELEVATION
TYPICAL INTERIOR UNIT**
Even number of panels/interior unit required.



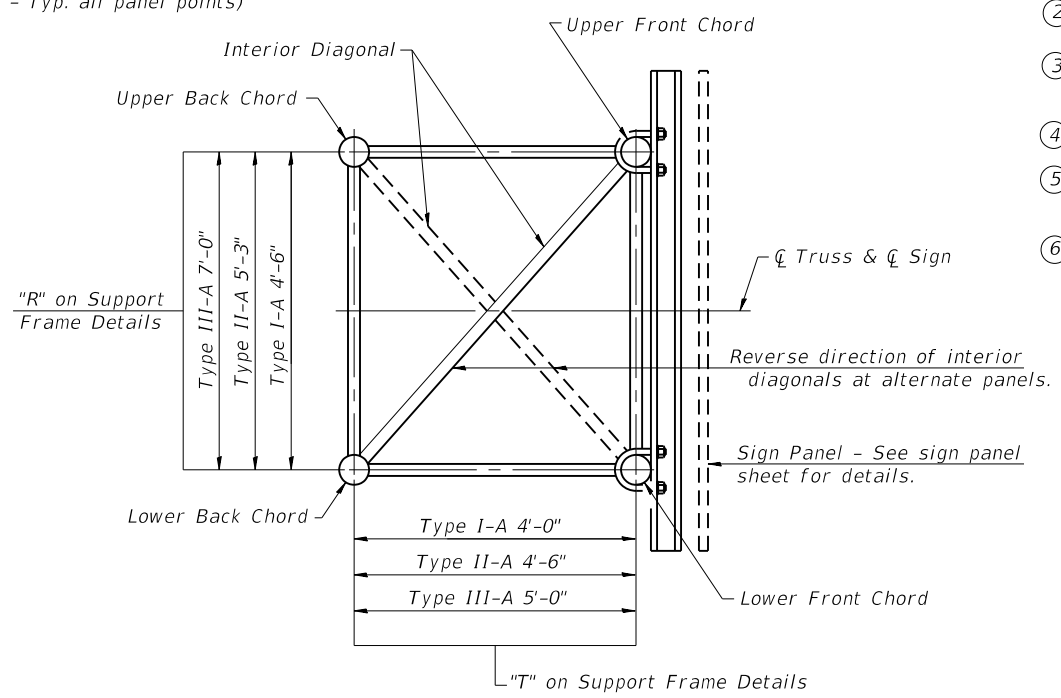
SUPPORT END DETAIL FOR EXTERIOR UNIT



TYPICAL JOINT DETAILS



**ELEVATION
TYPICAL EXTERIOR UNIT**
Even or odd number of panels/exterior units allowed.



SECTION A-A

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

05-A-2

2-17-2017



USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

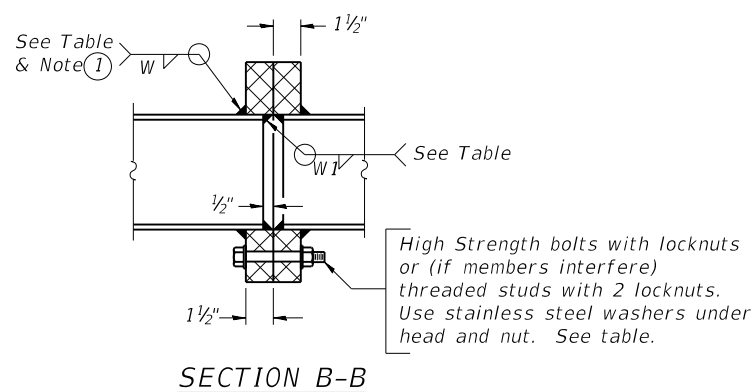
SHEET 2 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	115
CONTRACT NO. 76H84				

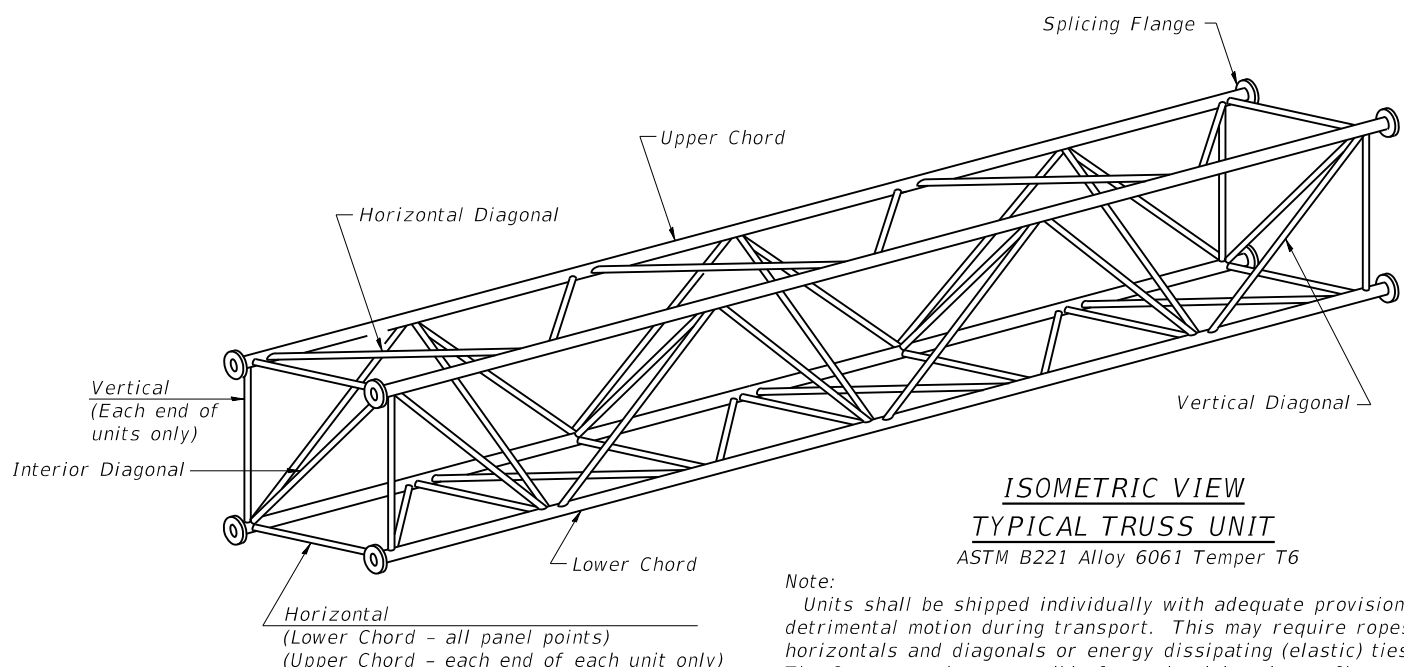
ILLINOIS FED. AID PROJECT

TRUSS UNIT TABLE

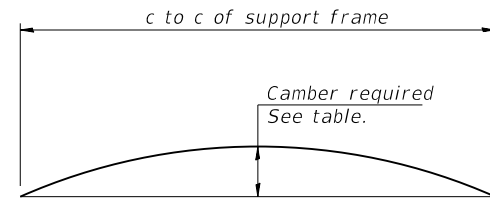
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontal; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(Le)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(Li)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	WI		
8S0601070L016.2	1000+12.00	I-A	5	26'-5½"	4'-11"	1	6	30'-9"	4'-11"	5"	⅝"	2½"	⅝"	2⅝"	6	⅞"	⅝"	¼"	8¾"	11¾"



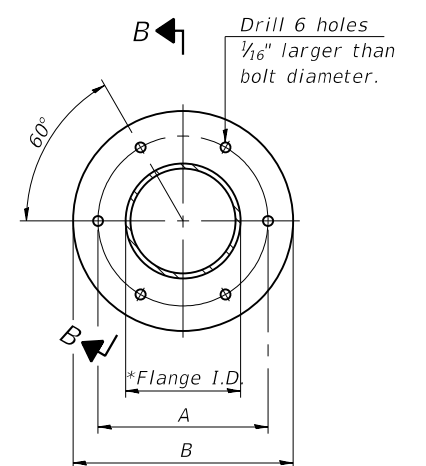
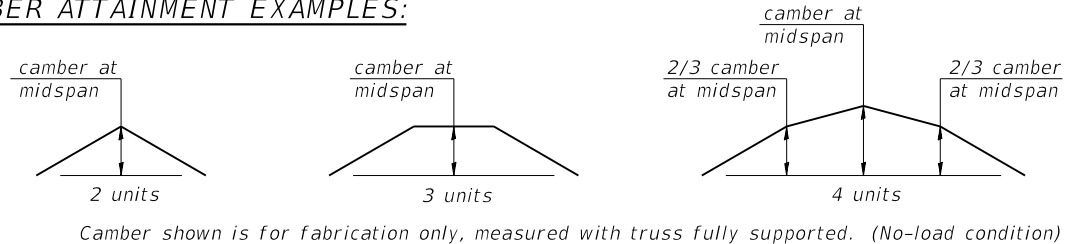
① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



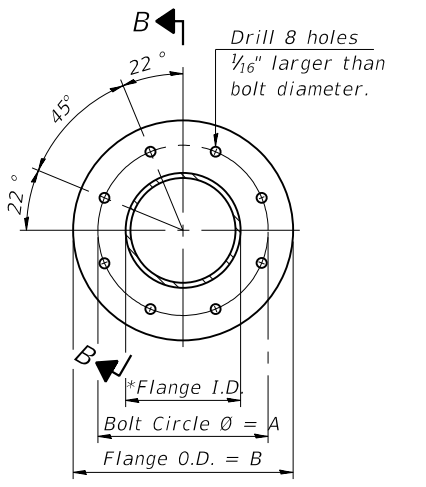
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



CAMBER ATTAINMENT EXAMPLES:



TRUSS TYPES I-A, II-A, & III-A



**TRUSS TYPES II-A & III-A
SPlicing FLANGES**

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of ⅙".

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054-A-2

2-17-2017



USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

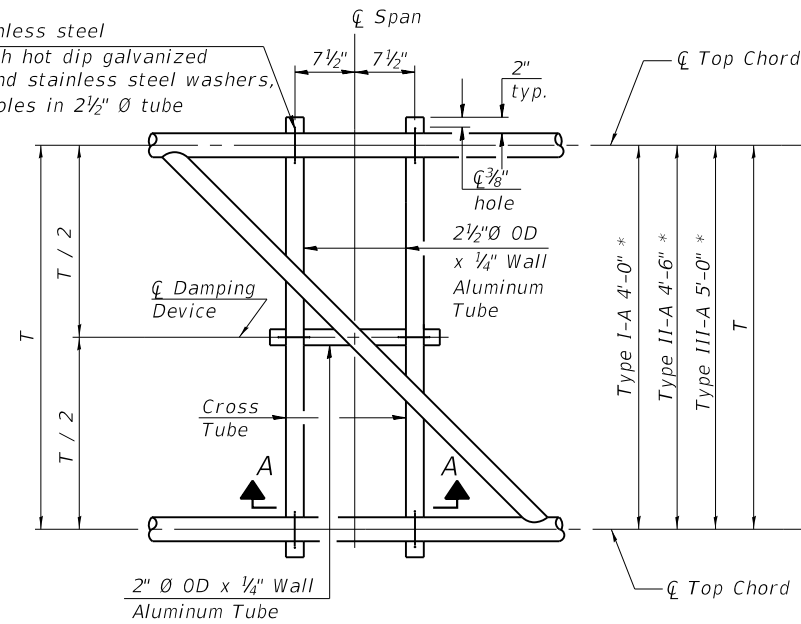
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A**

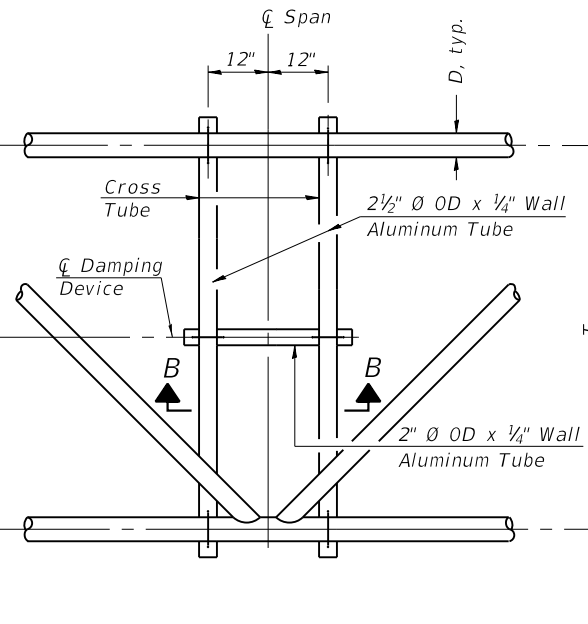
SHEET 3 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	116
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

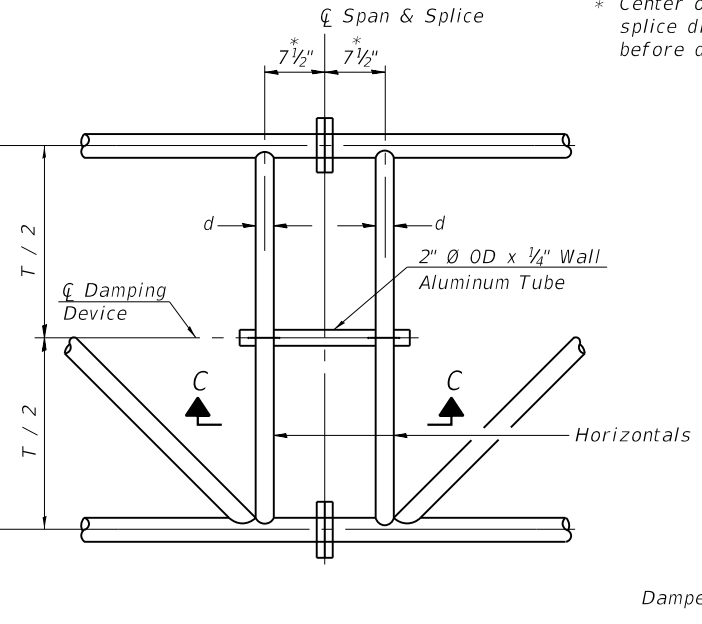
$\frac{5}{16}$ " \varnothing stainless steel
U-bolt with hot dip galvanized
locknuts and stainless steel washers,
typ. $\frac{3}{8}$ " \varnothing holes in $2\frac{1}{2}$ " \varnothing tube



PLAN DETAIL "A"
☐ Span between Panel Points



PLAN DETAIL "B"
☐ Span at Panel Point



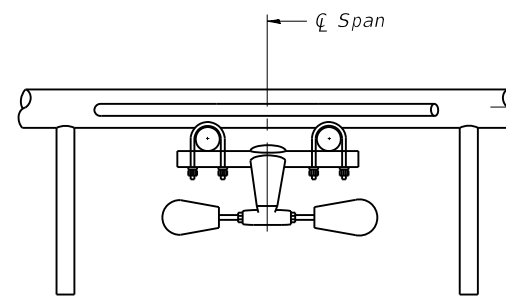
PLAN DETAIL "C"
☐ Span at ☐ Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

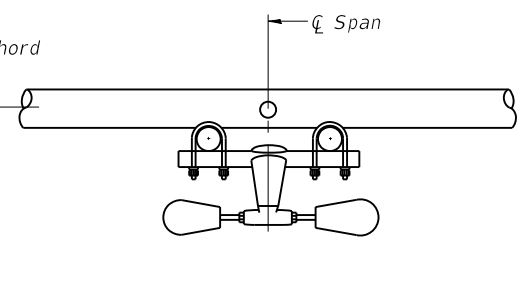
NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

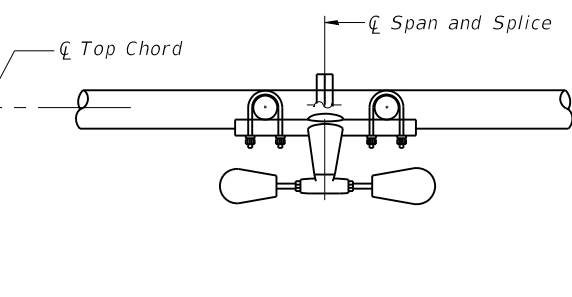
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



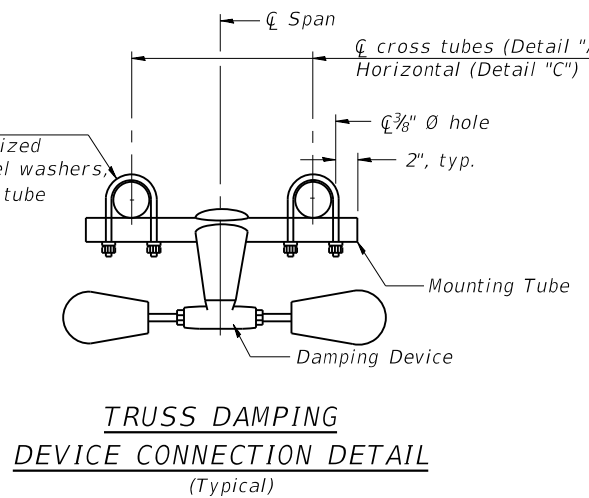
SECTION A-A



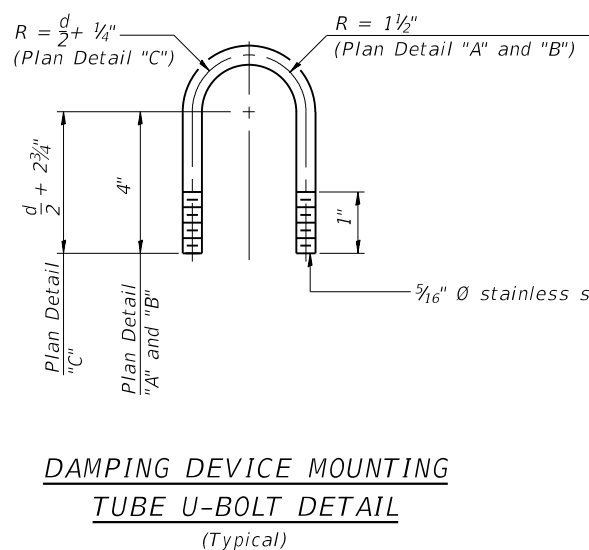
SECTION B-B



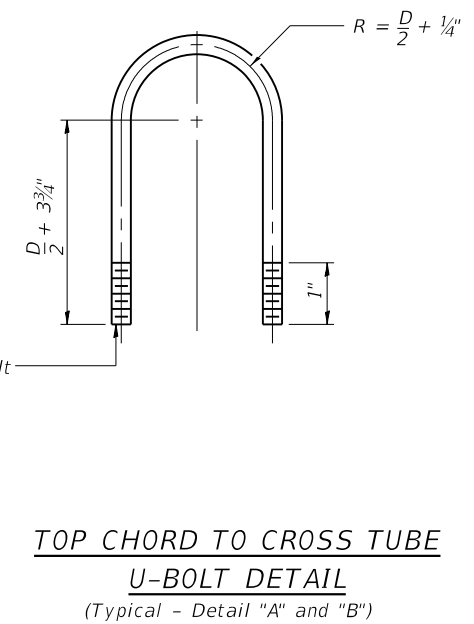
SECTION C-C



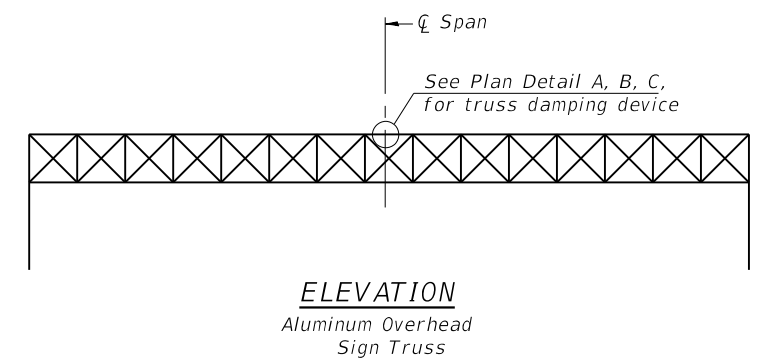
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead Sign Truss

MODEL: G:\FE\Jobs\2019\19-1402_PTB_190-32_VARIOUS PHASE I & II D8 - HMG\WO-02\CADD\CADD Sheets\DS-76H84-Aluminum Span_Sign_Truss-004.dgn

05-A-D

2-17-2017

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PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE DAMPING DEVICE

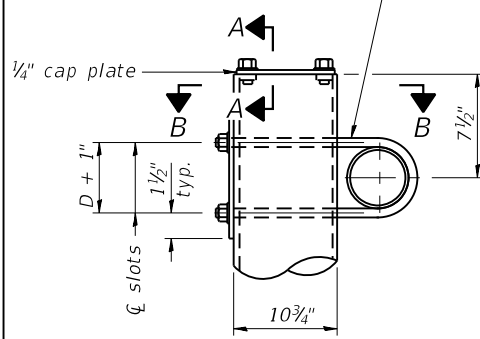
SHEET 4 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	117
CONTRACT NO. 76H84				

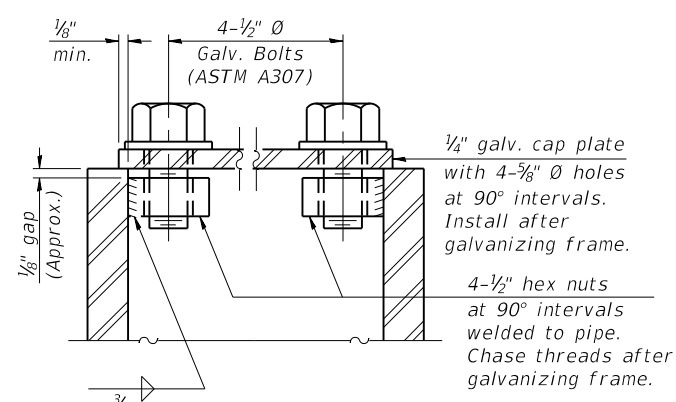
ILLINOIS FED. AID PROJECT

MODEL: G:\FE\Jobs\2019\19-1402_PTB 190-32_VARIOUS PHASE I & II.D8 - HMG\WO-02\CADD\Sheets\DE-76H84-Aluminum Span_Sign_Truss-005.dgn
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3/4" Ø stainless steel U-bolt.
 Provide two washers and two hexagon locknuts. (4)
 1 3/16" x 2" slots on 10" Ø pipe.
 (4 slots required per pipe)

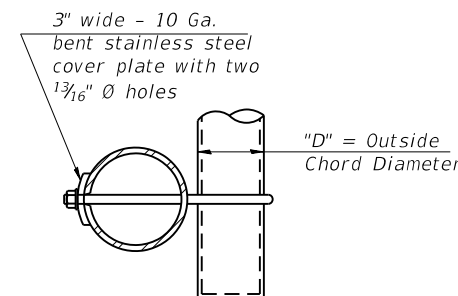


DETAIL A

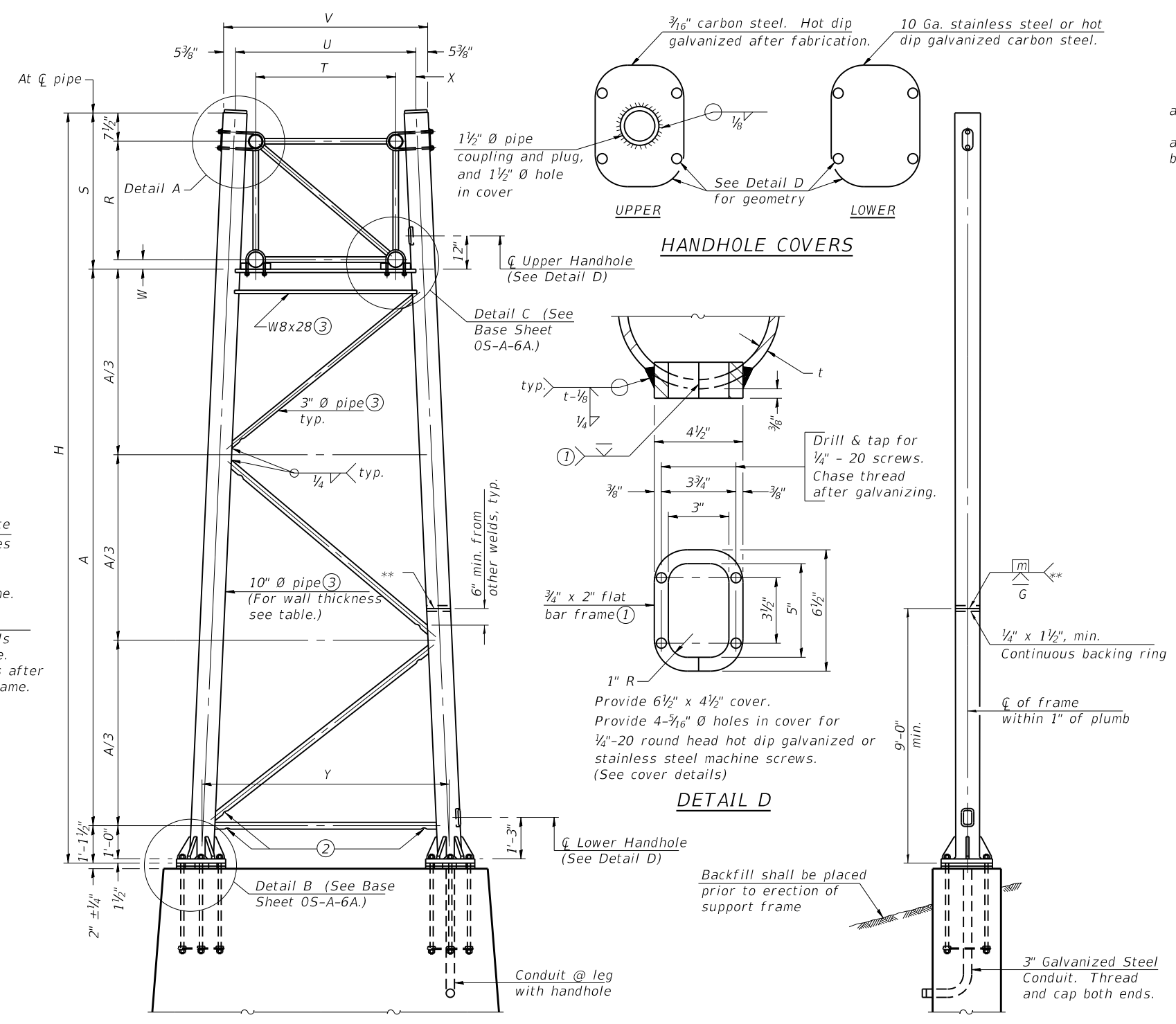


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

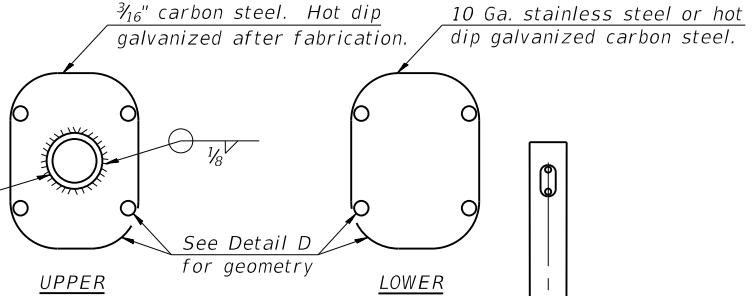


SECTION B-B

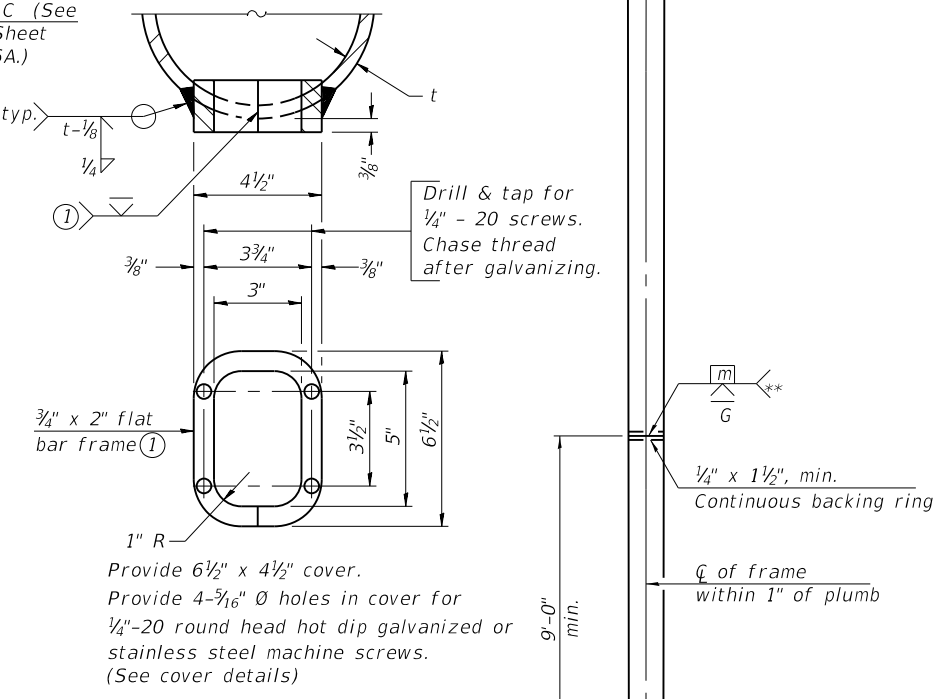


For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

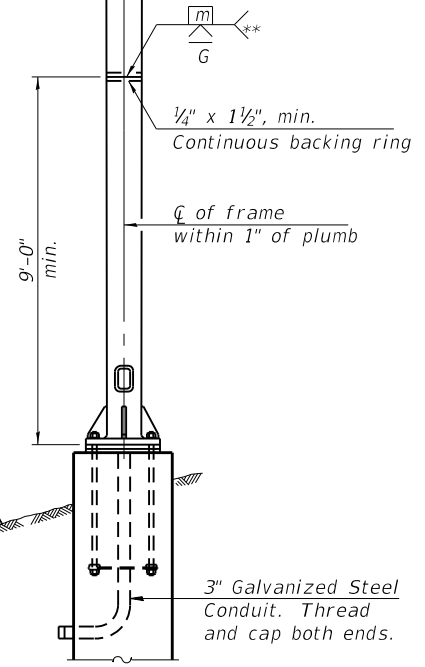
SIDE ELEVATION



HANDHOLE COVERS



DETAIL D



END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
 Load combinations checked include deadload plus:
 a) 100% wind normal to sign, 20% parallel to sign
 b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A ⑤	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

10" Ø PIPE TRUSS SUPPORT FRAME
 ** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H ⑥	A
		Left	Right				
8S0601070L016.2	1000+12.00	X	X	I-A	0.279"	31'-0"	24'-5"
8S0601270L015.3	953+52.00	X	X		0.365"	29'-6"	22'-1 1/4"

OS-A-6

2-17-2017



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PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

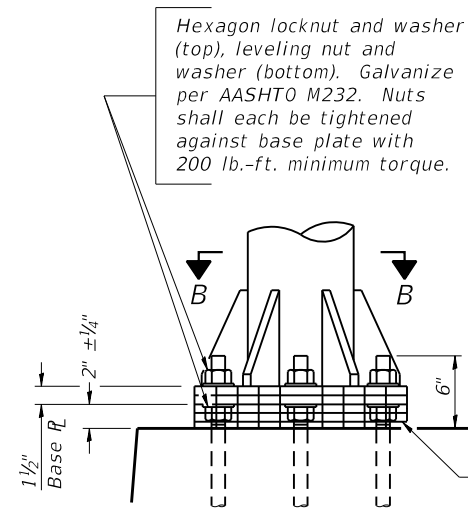
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
 SUPPORT FRAME FOR ALUMINUM TRUSS

SHEET 5 OF 10 SHEETS

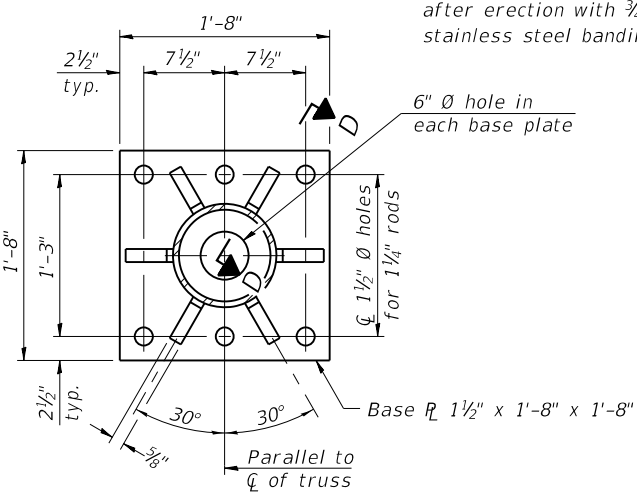
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	118
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

MODEL: G:\FE\Jobs\2019\19-1402_PTB 190-32 VARIOUS PHASE I & II D8 - HMG\WO-02\CADD\Sheets\DS-76H84-Aluminum Span_Sign_Truss-006.dgn
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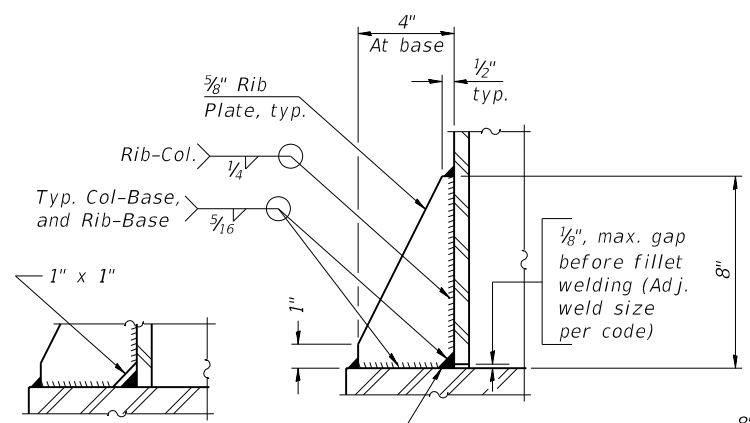


DETAIL B

Ribs shall be cut to fit slope of pipe.
 Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.

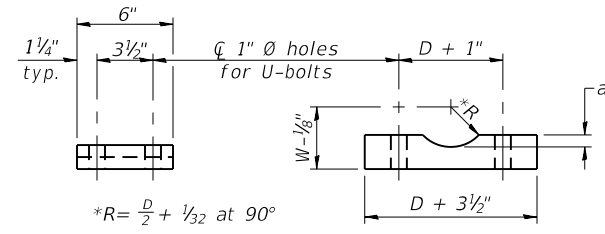


SECTION B-B



SECTION D-D

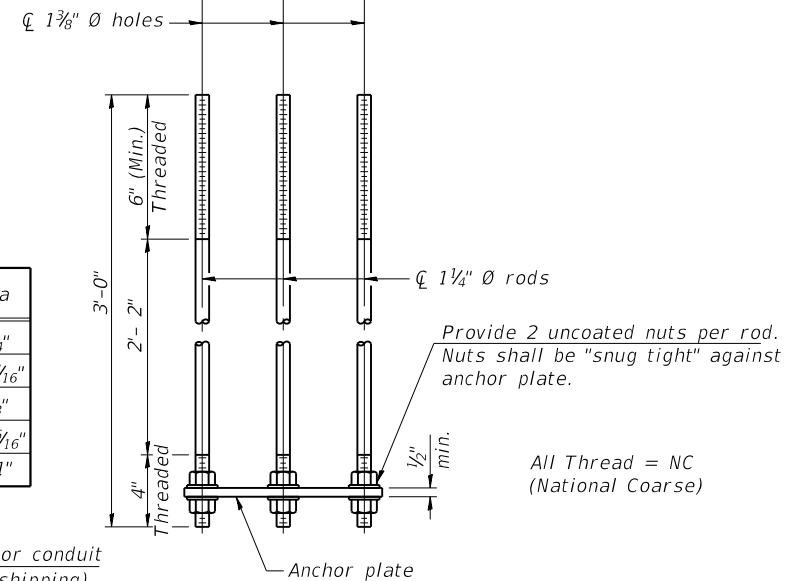
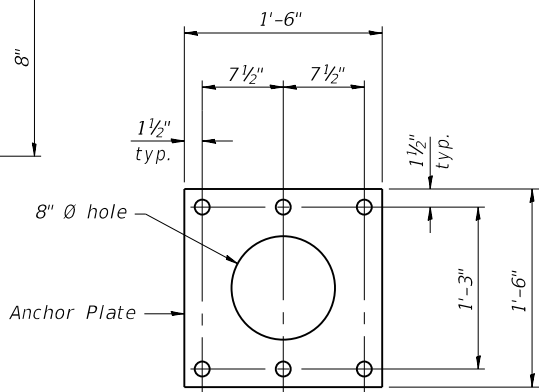
** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.
 No snip req'd. at rib inside corner if placed before col. to base plate welding.**



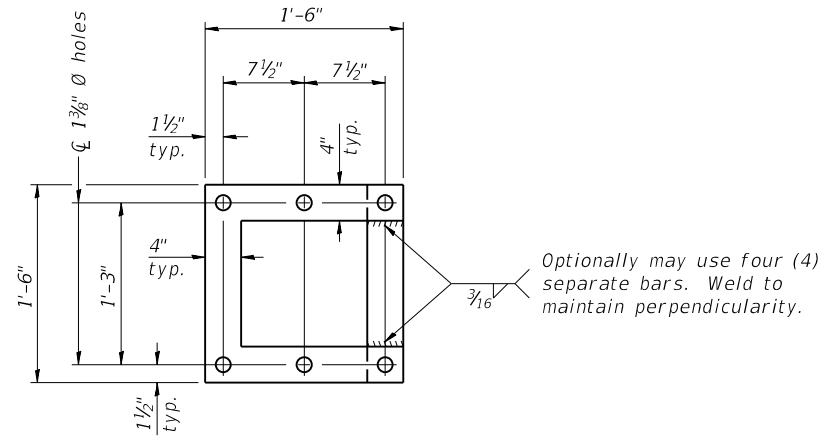
SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
 or
 ASTM B209 Alloy 6061-T651 (4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	1 1/16"
6"	7/8"
6 1/2"	1 5/16"
7"	1"

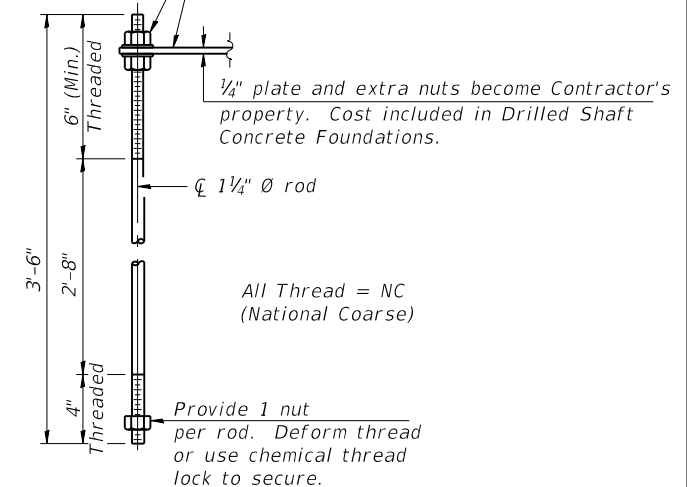


ANCHOR ROD DETAIL
 Spread Footing Foundation



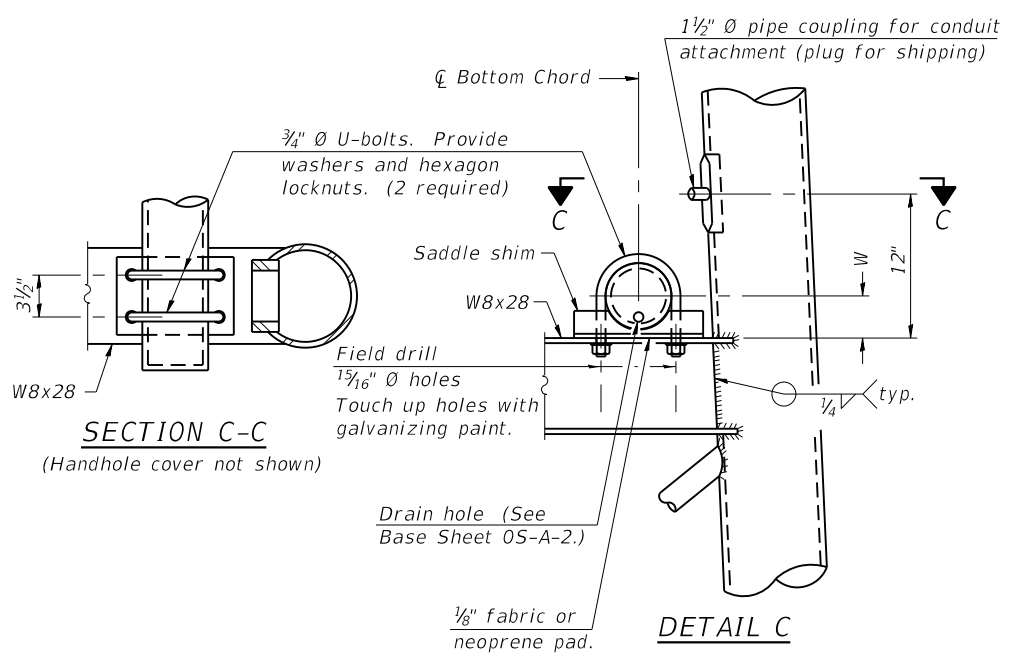
POSITIONING PLATE(S)

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.



ANCHOR ROD DETAIL
 Drilled Shaft Foundation

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.



SECTION C-C
 (Handhole cover not shown)

DETAIL C

10" Ø PIPE SUPPORT FRAME DETAILS

05-A-6A

2-17-2017



USER NAME	DESIGNED	REVISIONS
T.S. Friederich	T.S. Friederich	
E.M. Lagemann	E.M. Lagemann	
T.S. Friederich	T.S. Friederich	
E.M. Lagemann	E.M. Lagemann	

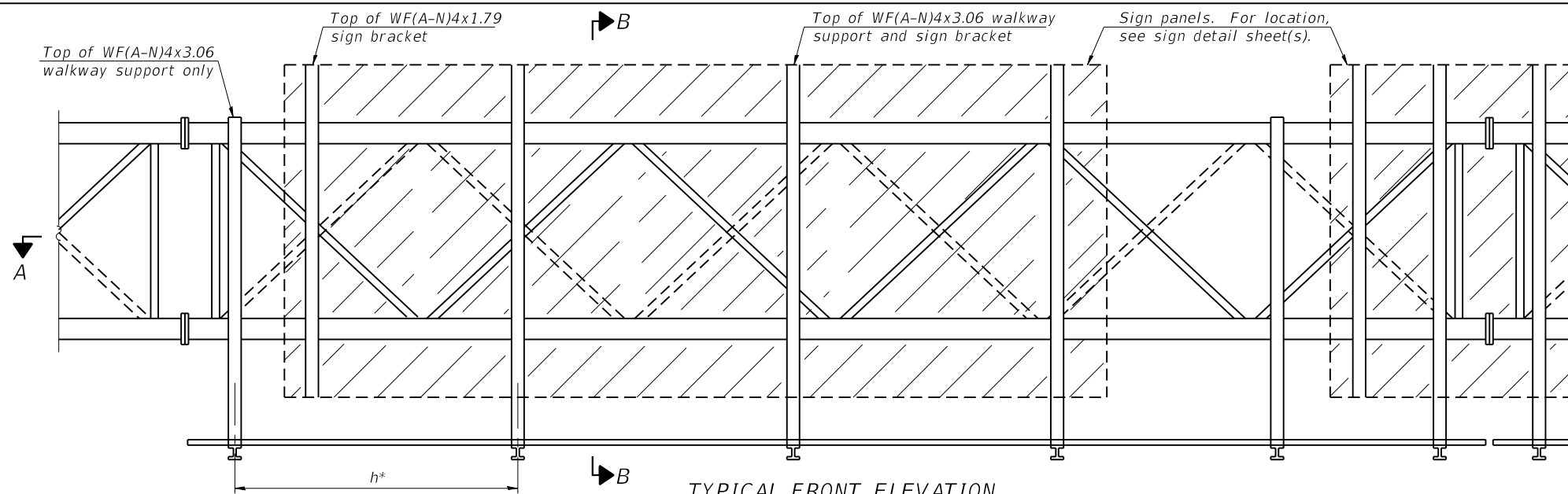
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
 SUPPORT FRAME DETAILS - ALUMINUM TRUSS

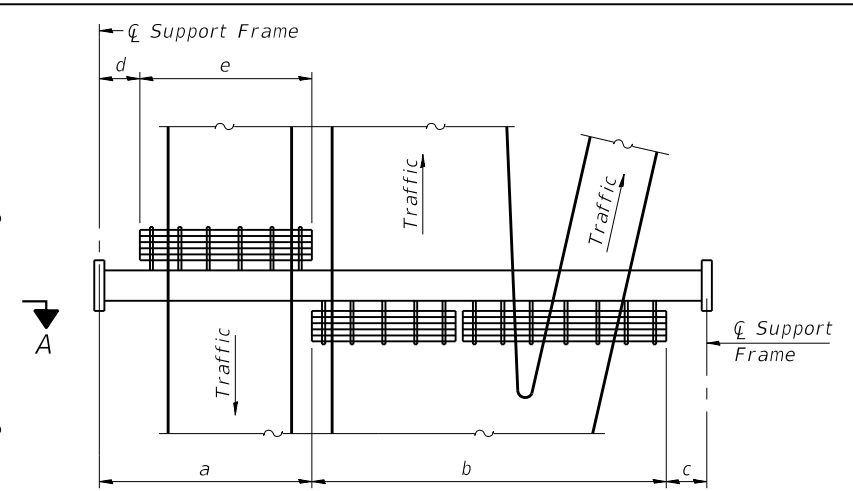
SHEET 6 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	119
CONTRACT NO. 76H84				

ILLINOIS FED. AID PROJECT



TYPICAL FRONT ELEVATION
 With lights and handrail omitted for clarity.
 For Section B-B, see Base Sheet 05-A-10.



PLAN WALKWAY AND HANDRAIL SKETCH
 (Road plan beneath truss varies)

BRACKET TABLE

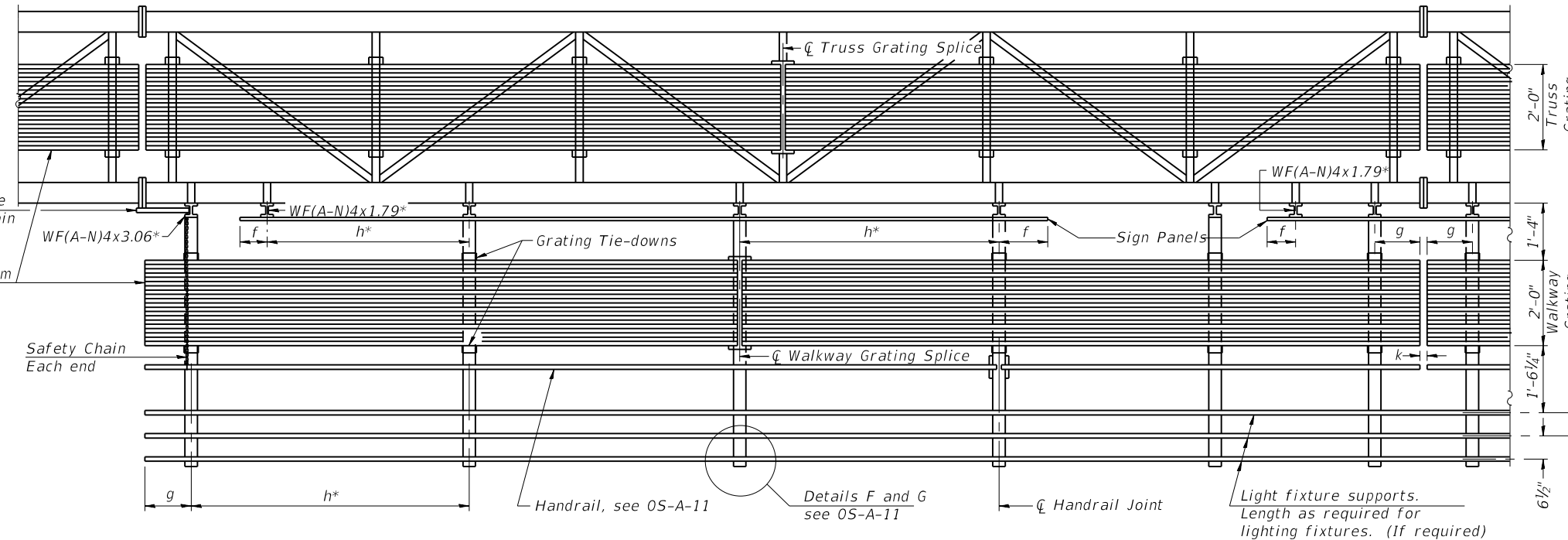
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:
 * Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 $f = 12"$ maximum, 4" minimum (End of sign to $\text{\textcircled{C}}$ of nearest bracket)
 $g = 12"$ maximum, 4" minimum (End of walkway grating to $\text{\textcircled{C}}$ of nearest support bracket)
 $h = 6'-0"$ maximum ($\text{\textcircled{C}}$ to $\text{\textcircled{C}}$ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
 $k = 2"$ maximum gap between adjacent walkway grating sections and handrail ends

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet 05-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet 05-A-10.

For Handrail Details see Base Sheet 05-A-11.



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
 Place all sign and walkway brackets as close to panel points as practical.
 Handrail joints, grating, and light support splices placed as needed.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
8S0601070L016.2	1000+12.00	31'-3"	28'-9"	22'-0"			28'-9"

Truss grating to facilitate inspection shall run full length (center to center of support frames) $\pm 12"$ on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary $\pm 1/2"$ based on available standard widths.

MODEL: G:\FE\Jobs\2019\19-1402_PTB_190-32_VARIOUS PHASE I & II DB - HMG\WO-02\CADD\Sheets\DS-76H84-Aluminum Span_Sign_Truss-007.dgn
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05-A-9 2-17-2017



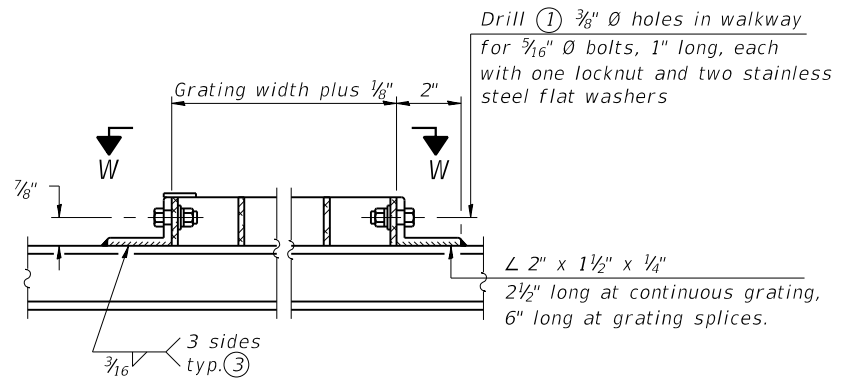
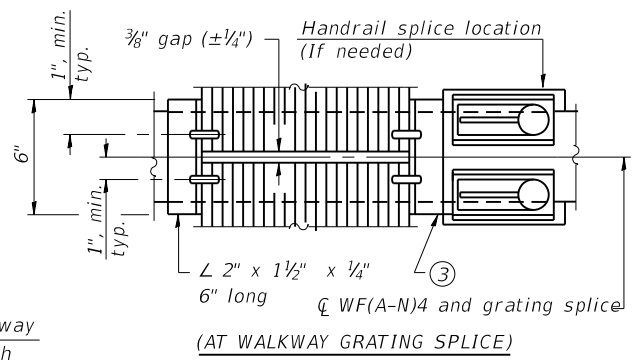
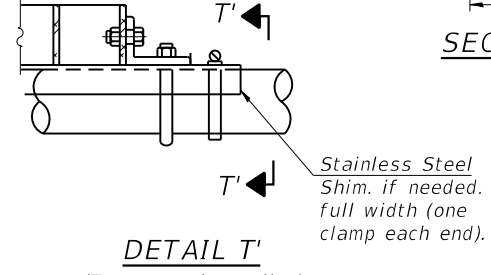
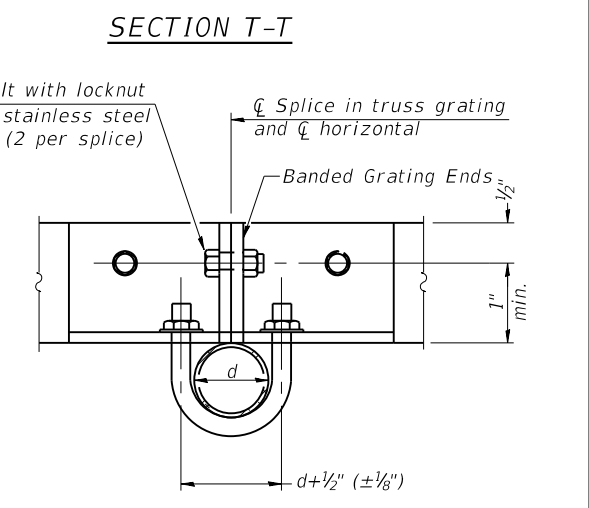
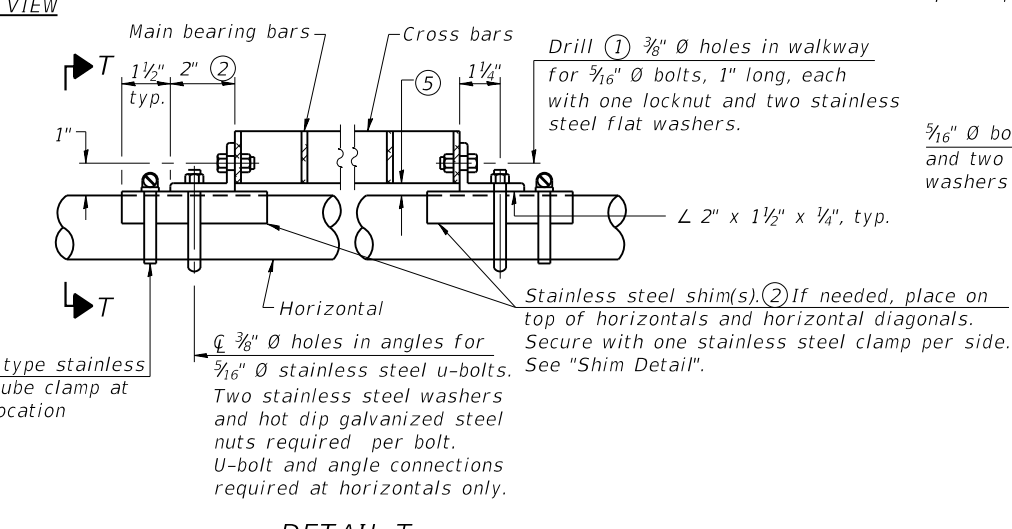
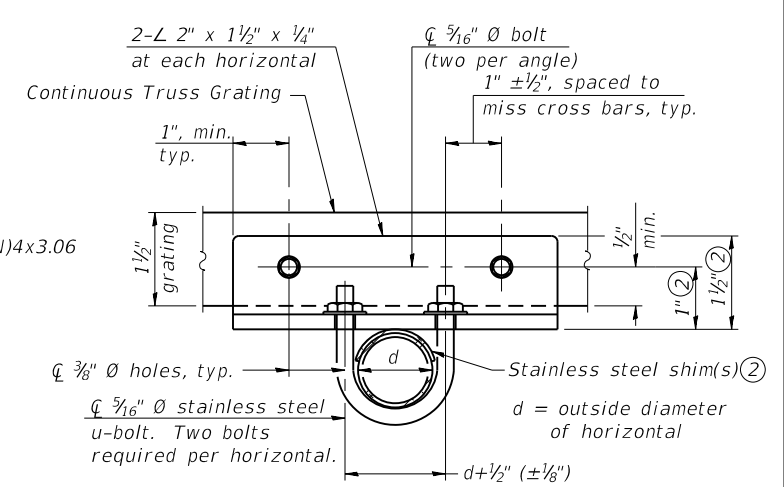
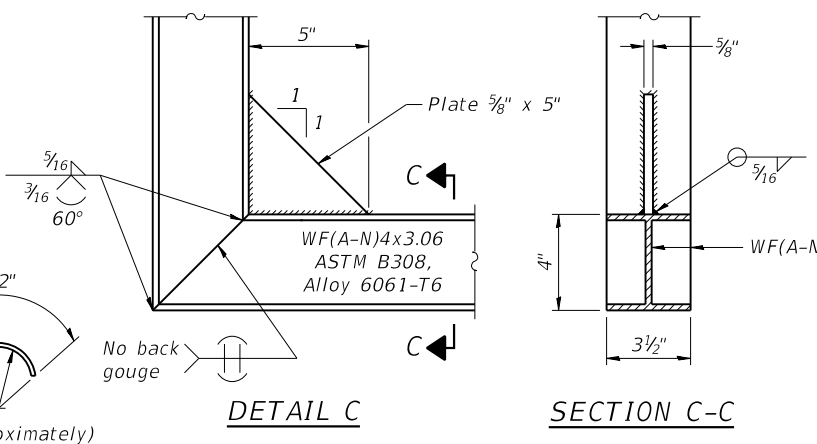
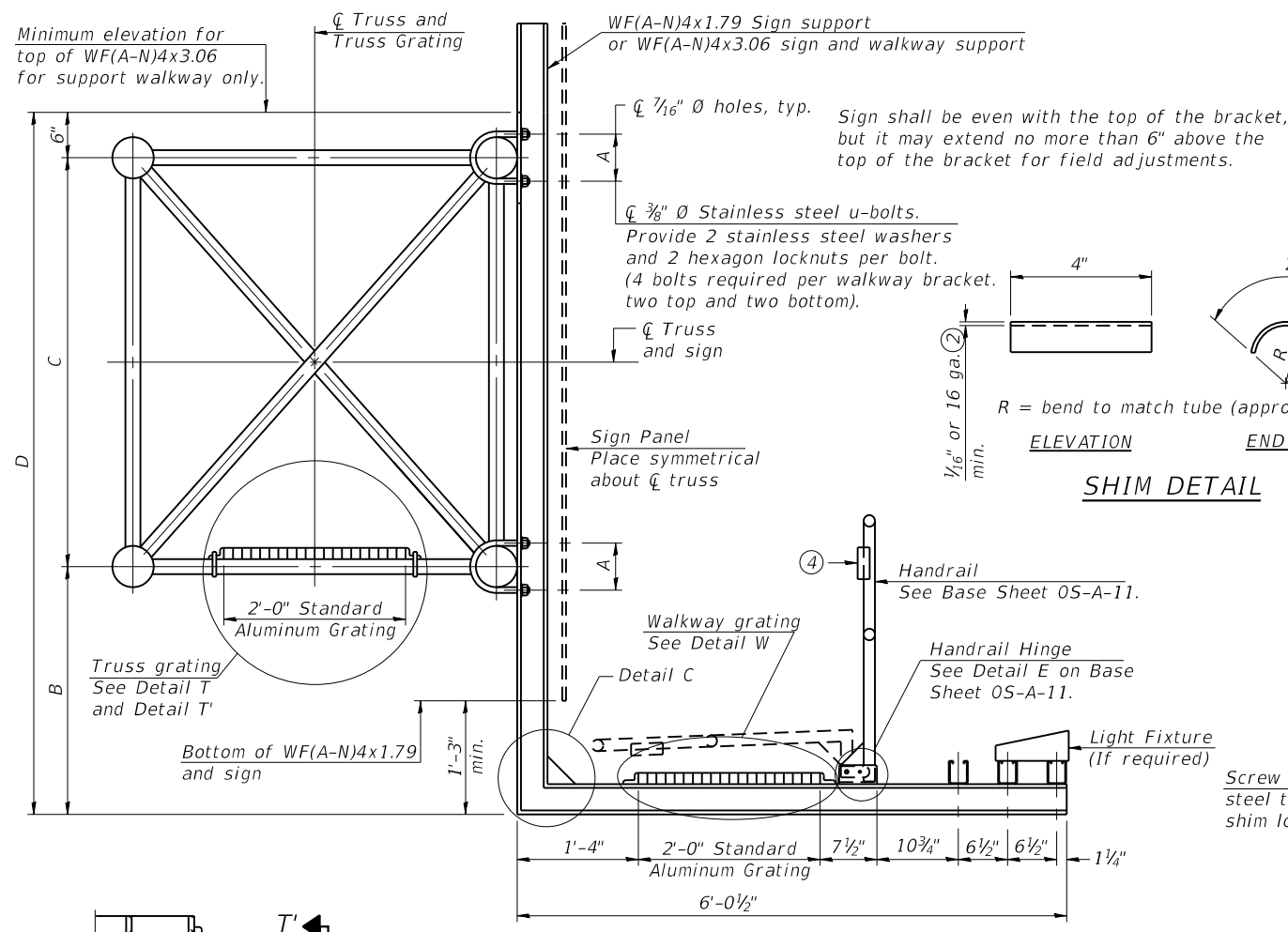
USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
 ALUMINUM WALKWAY DETAILS

SHEET 7 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	120
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
8S0601070L016.2	1000+12.00	5 1/2"	6'-6"	4'-6"	11'-6"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.

MODEL: G:\FE\Jobs\2019\19-1402_PTB_190-32_VARIOUS PHASE I & II DB - HMG\WO-02\CADD\Sheets\DS-76H84-Aluminum Span_Sign_Truss-008.dgn

05-A-10

2-17-2017



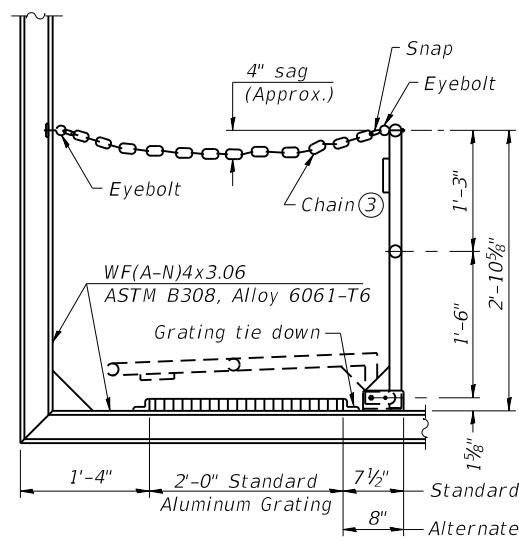
DESIGNED -	T.S. Friederich	REVISED -	
CHECKED -	E.M. Lagemann	REVISED -	
PLOT SCALE -		DRAWN -	T.S. Friederich
PLOT DATE -		CHECKED -	E.M. Lagemann
		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

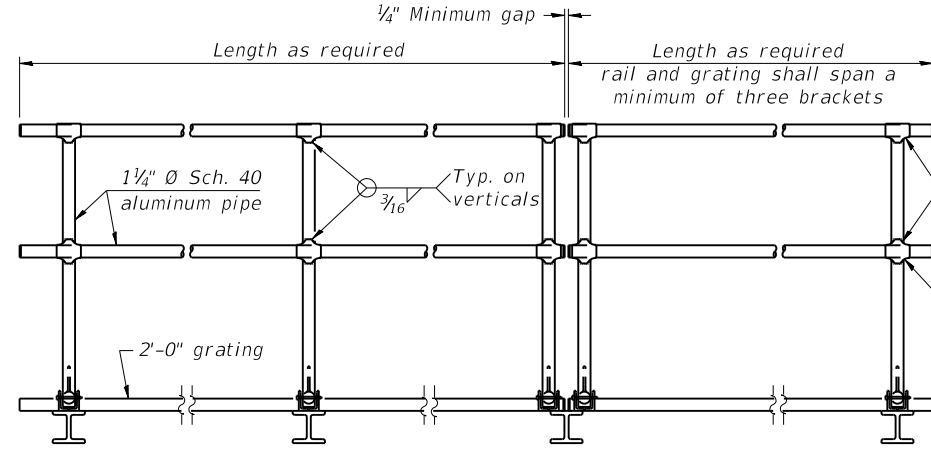
SHEET 8 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	121
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				



SIDE ELEVATION

(Showing safety chain w/o sign)

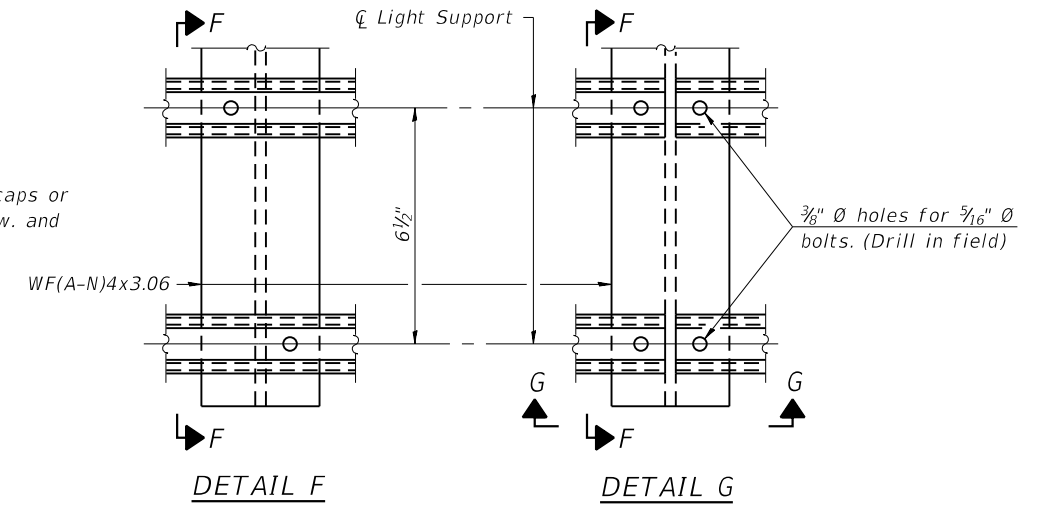


FRONT ELEVATION

HANDRAIL DETAILS

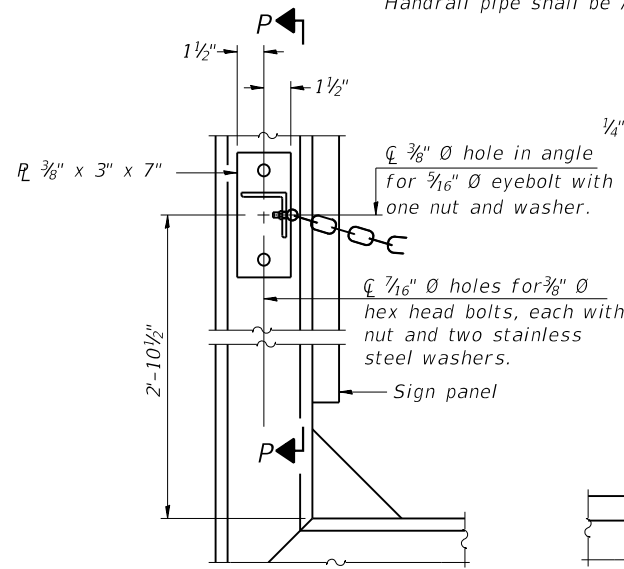
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

- ① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)
- ② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" Ø hole in fitting for 3/8" Ø bolt. Field drill 7/16" Ø hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" Ø holes on top rail at ends only.)



DETAIL F

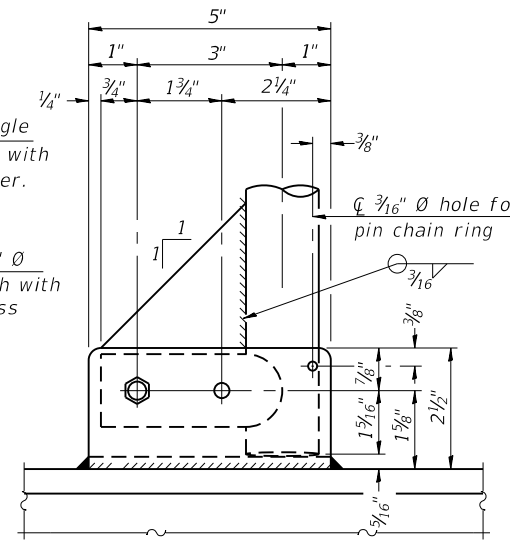
DETAIL G



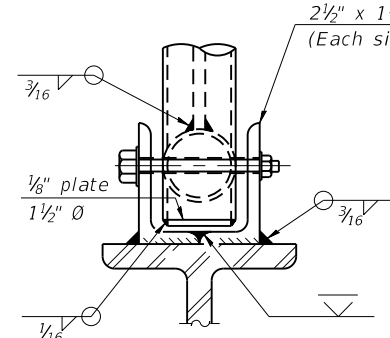
ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)

Items not shown same as "Side Elevation" of "Handrail Details"

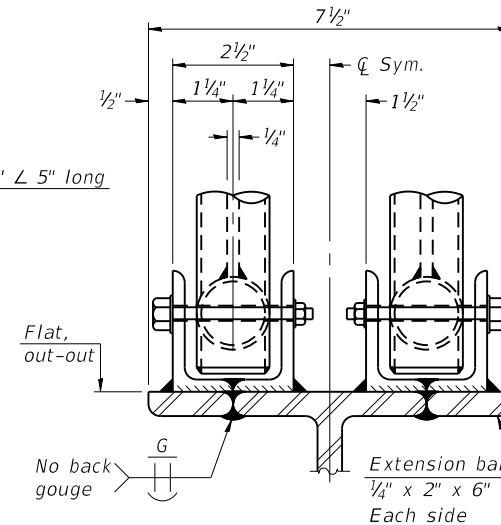


SIDE ELEVATION

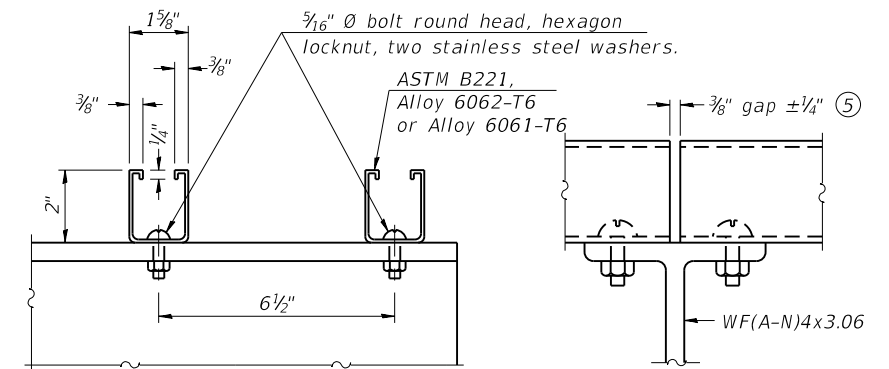


FRONT ELEVATION

See "Elevation" at right for dimensions.



ELEVATION AT HANDRAIL JOINT ④

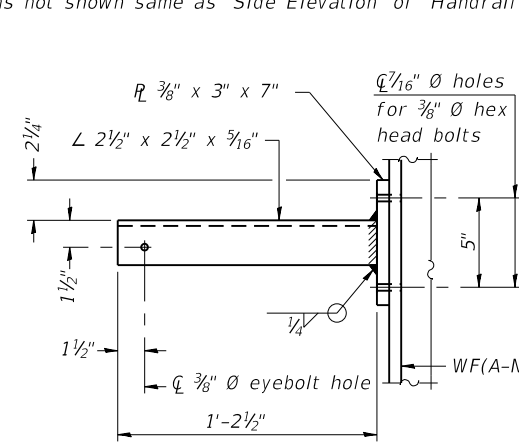


SECTION F-F

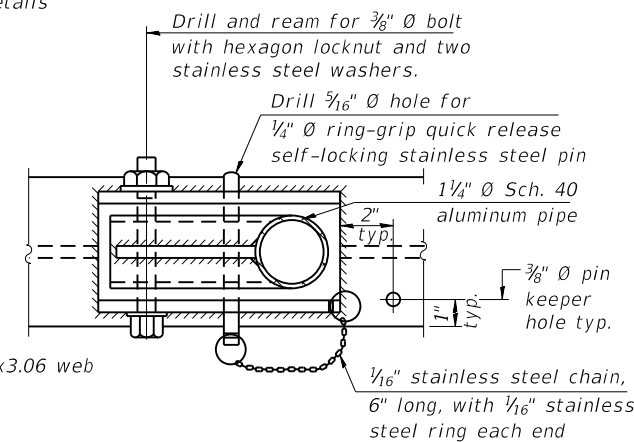
SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

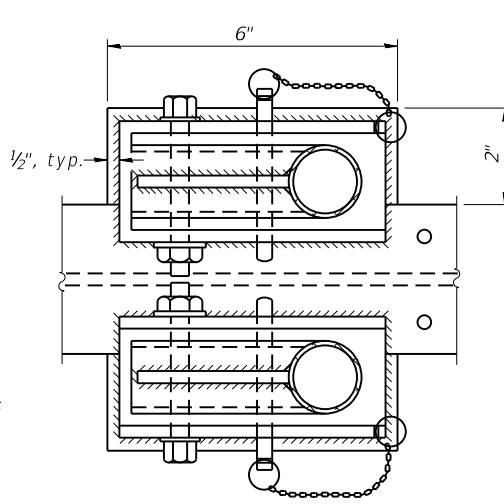
- ⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



SECTION P-P

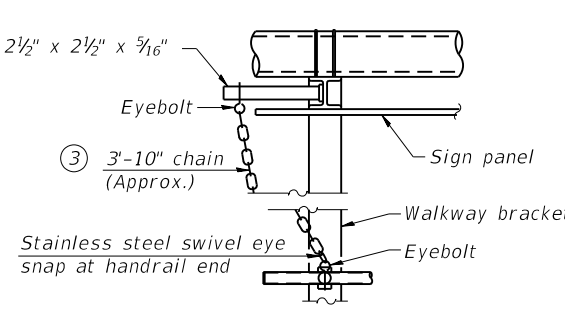


PLAN
DETAIL E HANDRAIL HINGE



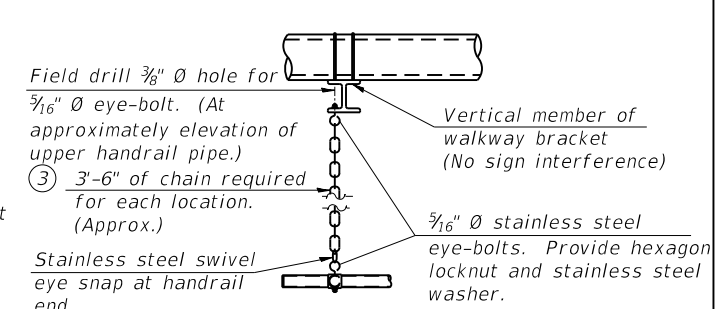
PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)



SAFETY CHAIN

One required for each end of each walkway.

- ③ 3/16" Type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

MODEL: G:\FE\Jobs\2019\19-1402_PTB_1904-32_VARIOUS PHASE I & II DB - HMG\WO-02\CADD\CADD Sheets\DS-76H84-Aluminum Span_Sign_Truss-009.dgn

05-A-11

2-17-2017



USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM HANDRAIL DETAILS

SHEET 9 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	122
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Q_u) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

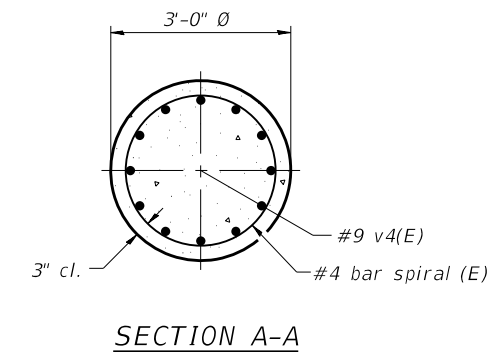
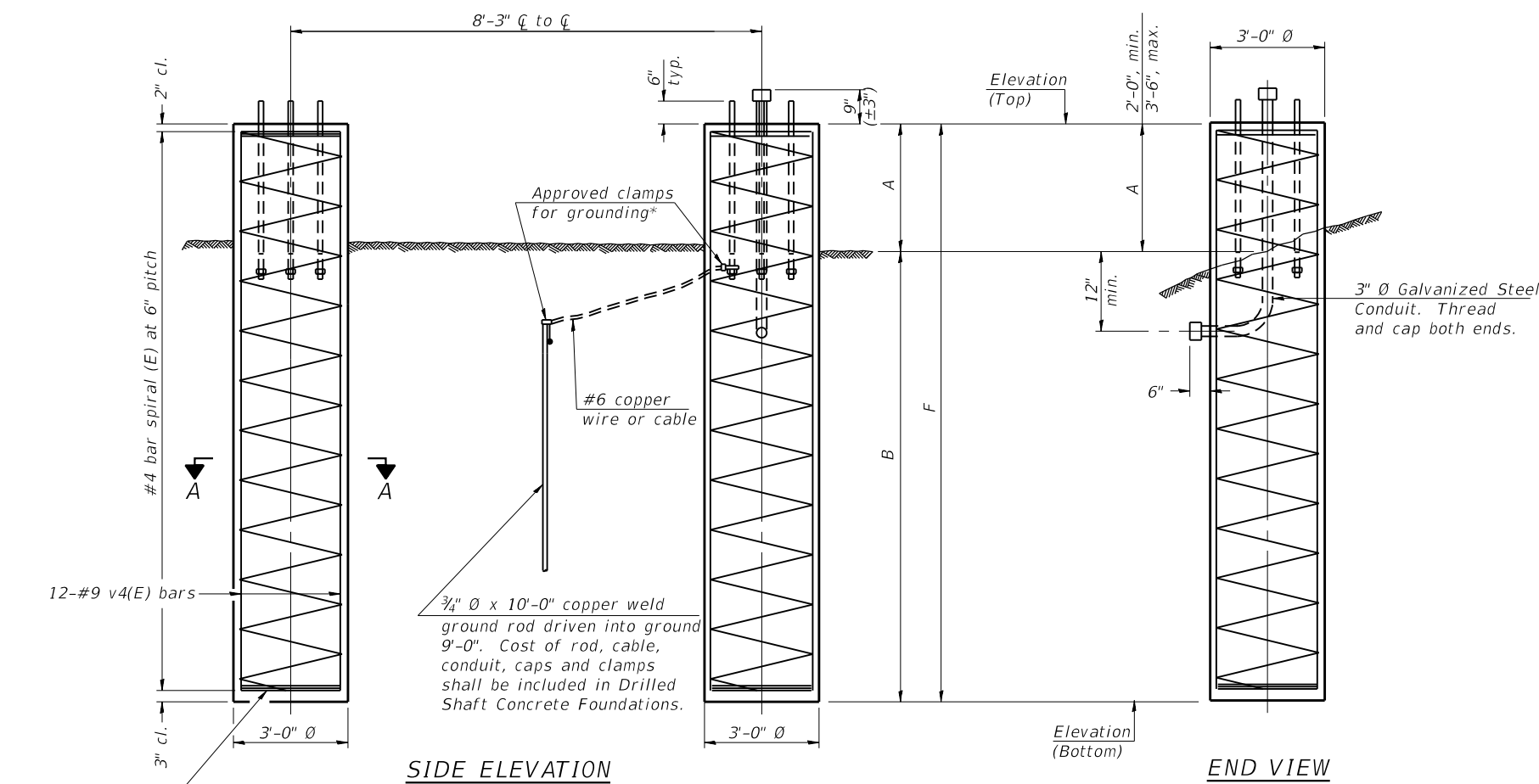
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

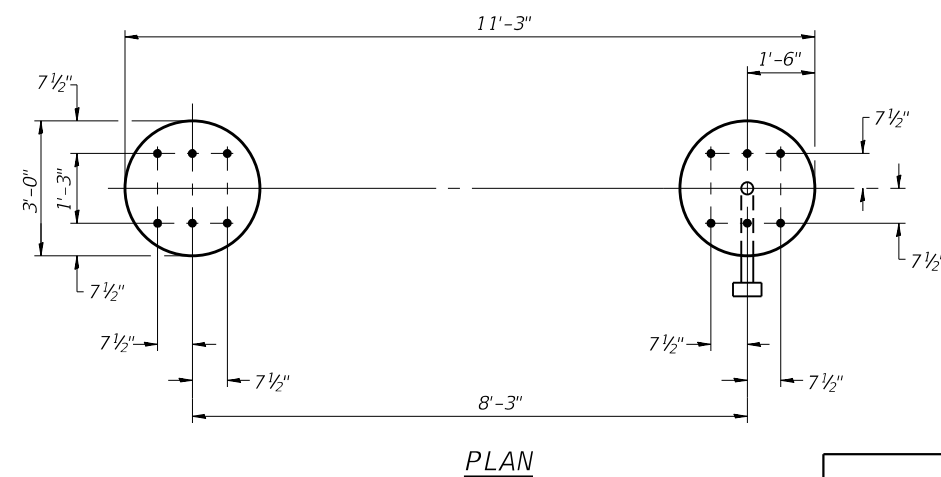
Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



3 hoops minimum top and bottom



For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

DETAILS FOR 10" Ø SUPPORT FRAME TYPE I-A or II-A TRUSS

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
850601070L016.2	1000+12.00	527.22	507.97	2'-9"	16'-6"	19'-3"	527.22	507.97	2'-9"	16'-6"	19'-3"	20.2

MODEL: G:\FE\Jobs\2019\19-1402_PTB 190-32 VARIOUS PHASE I & II DB - HMG\WO-02\CADD\Sheets\DR-76H84-Aluminum Span_Sign_Truss-010.dgn
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054-F3 2-17-2017



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PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES DRILLED SHAFT DETAILS
 SHEET 10 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	123
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:

Field Units
 $f' = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)(d) of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

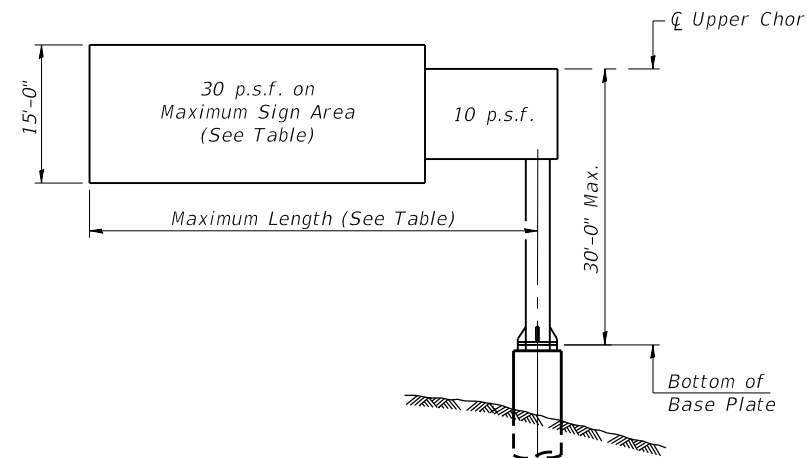
FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	109.0
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	60.5
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	35.2

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
8C0601055L019.5	1277+70.00	III-C-A	38'-0"	567.00	12'-0"	11'-0"	209.0
8C0601055R019.4	1281+27.00	III-C-A	37'-0"	564.71	7'-0"	11'-0"	203.5
8C0601055R018.7	1321+69.00	III-C-A	34'-0"	568.57	17'-0"	11'-0"	203.5

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

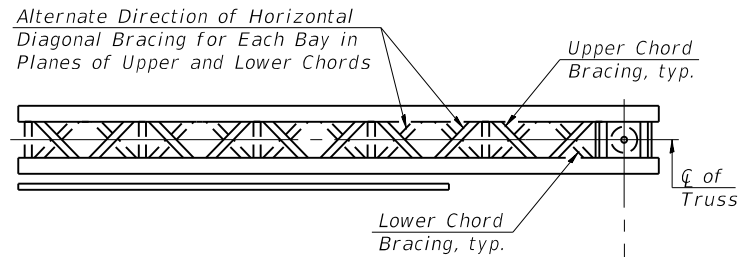
Parameters shown are basis for I.D.O.T. Standards. Installations not within dimensional limits shown require special analysis for all components.

Note:

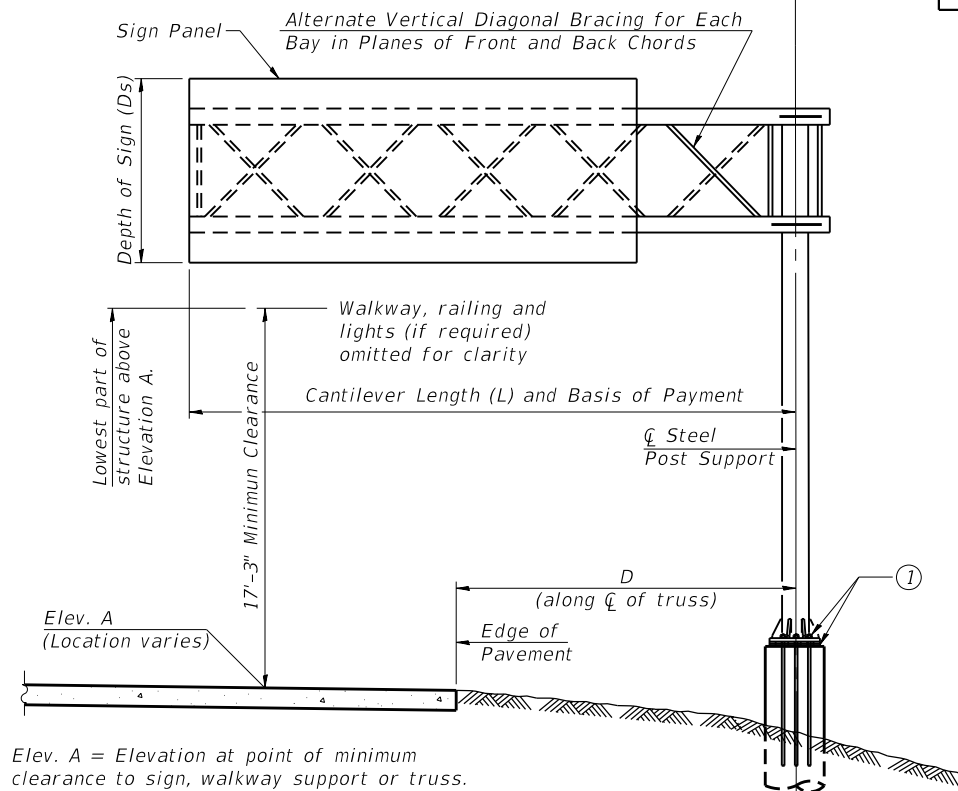
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

- ① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



TYPICAL PLAN
(Walkway not shown)



TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

MODEL: G:\FE\Jobs\2019\19-1402_PTB_190-32_VARIOUS PHASE I & II DB - HMG\WO-02\CADD\Sheets\DE-76H84-Aluminum Cantilever Sign Truss-001.dgn
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OSC-A-1

2-17-2017



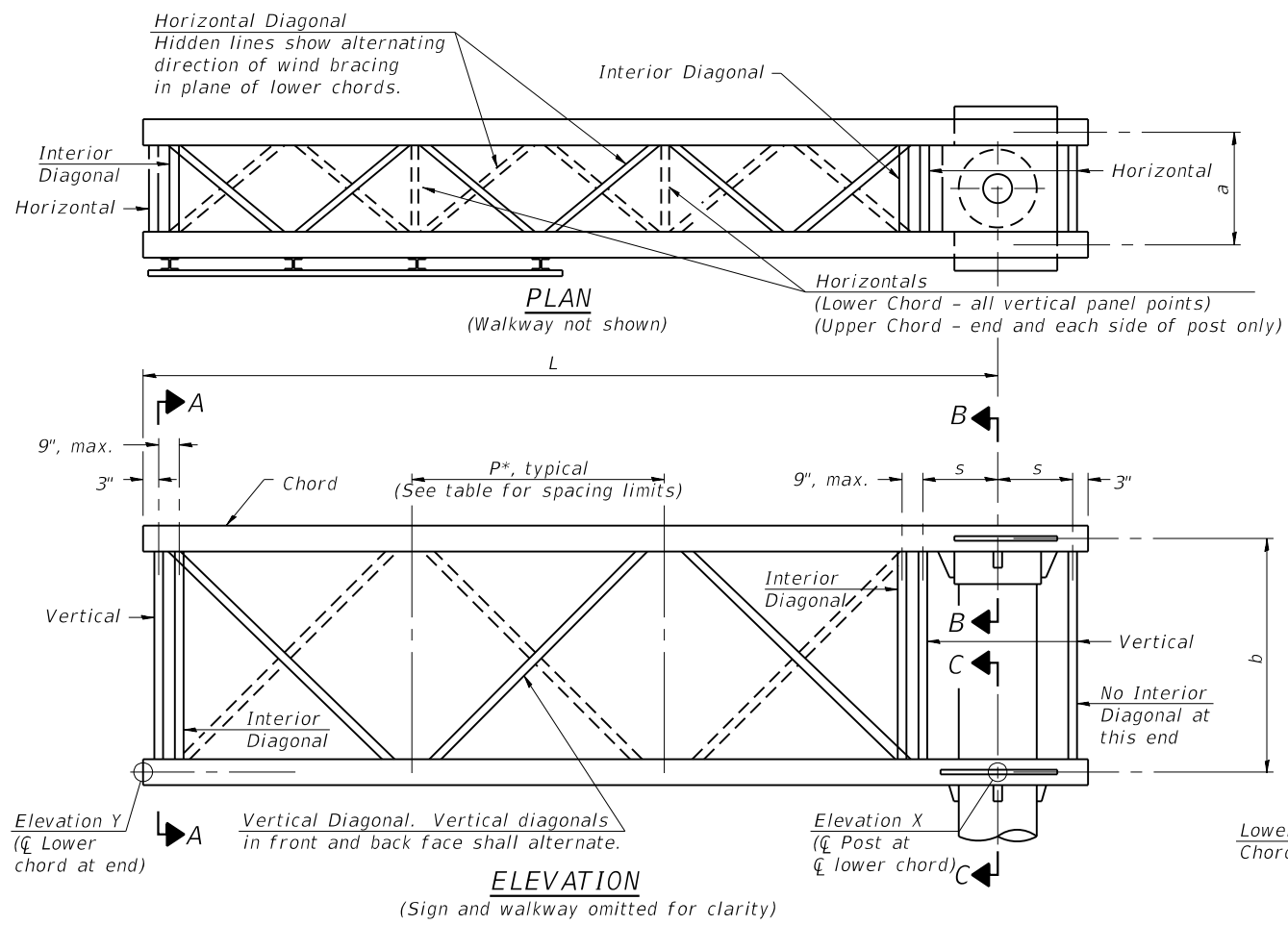
USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION
 ALUMINUM TRUSS & STEEL POST

SHEET 1 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	124
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				



TYPICAL TRUSS UNIT
(Sign and walkway omitted for clarity)

Note: For Section B-B and Section C-C, see Base Sheet OSC-A-3.

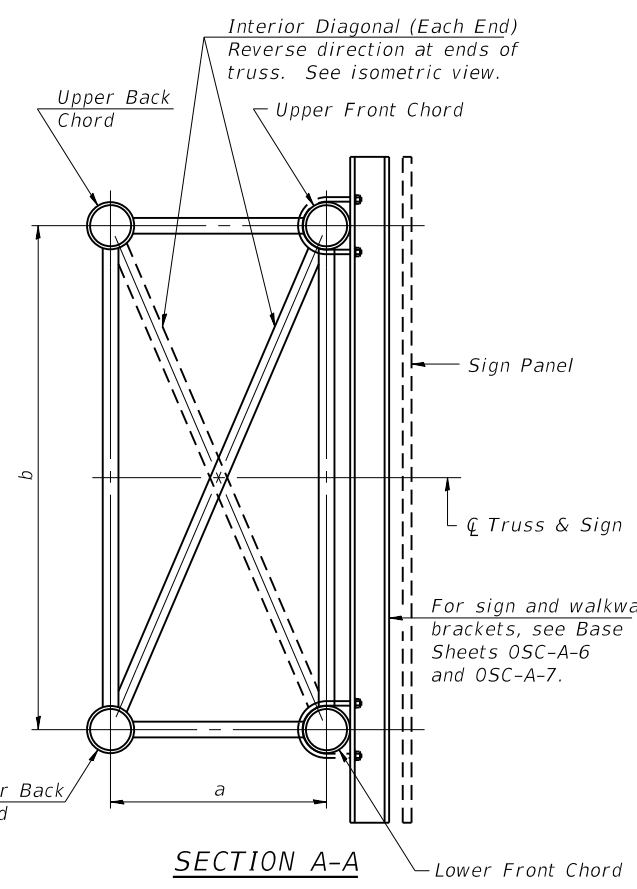
There are twice as many horizontal diagonals as there are vertical diagonals.

TRUSS UNIT TABLE

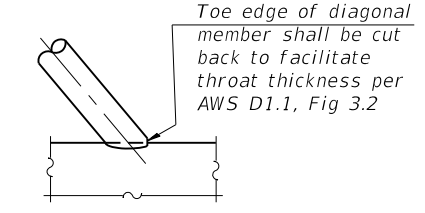
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

$$*p = \frac{L-s-3"}{\# \text{ Panels}}$$

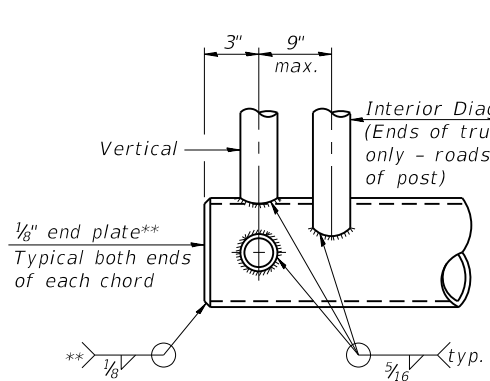
Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
8C0601055L019.5	1277+70.00	III-C-A	38'-0"	7	5'-1 3/4"
8C0601055R019.4	1281+27.00	III-C-A	37'-0"	7	5'-0"
8C0601055R018.7	1321+69.00	III-C-A	34'-0"	6	5'-4"



SECTION A-A

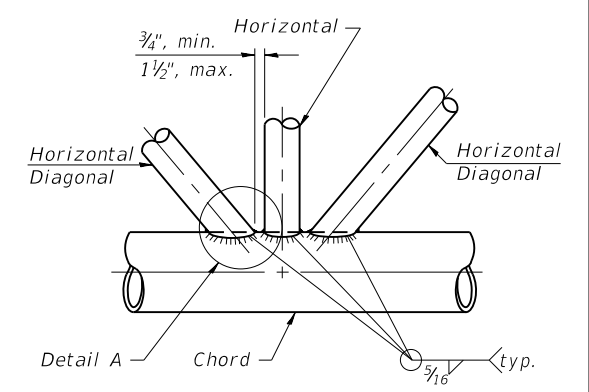


DETAIL A

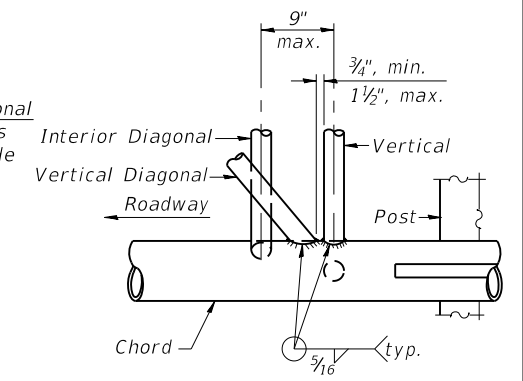


CANTILEVER END JOINT DETAIL

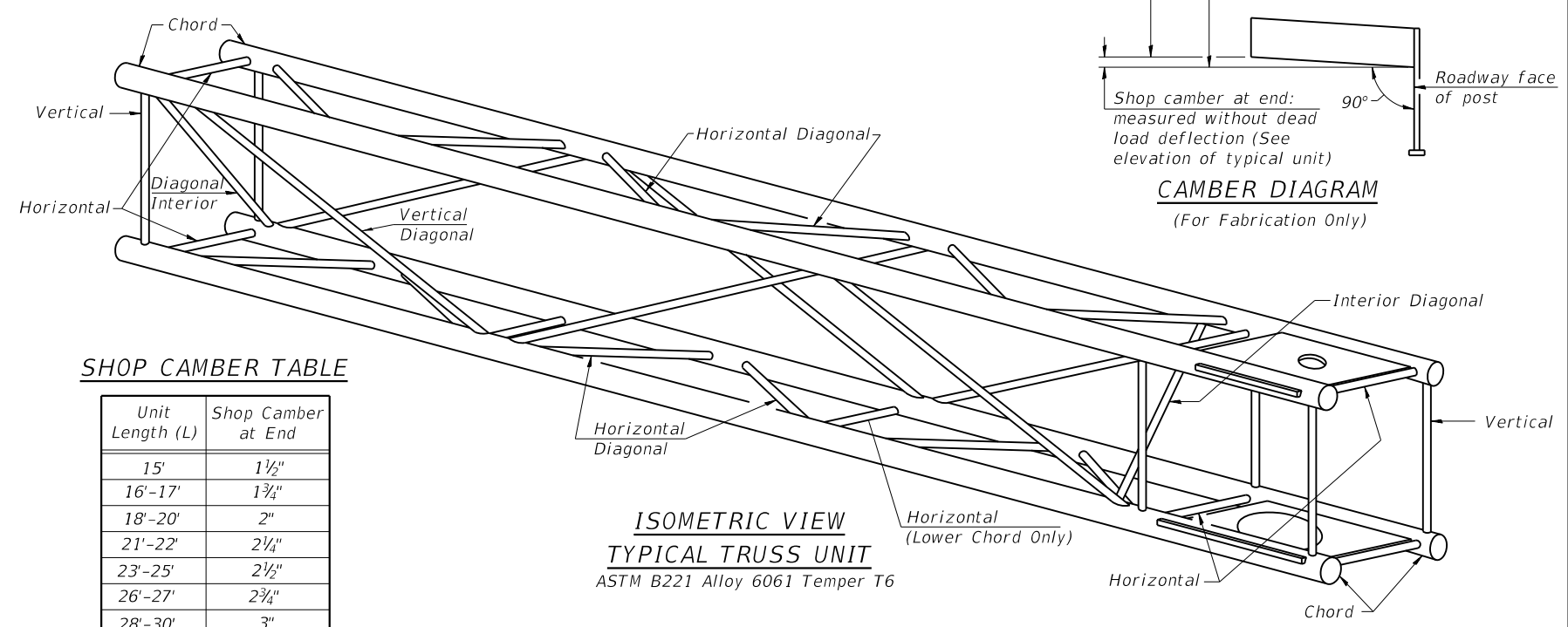
** Contractor may alternatively use standard aluminum drive-fit cap to close ends. 1/2" Ø Drain hole in end plate / drive-fit cap.



TRUSS INTERIOR JOINT DETAIL



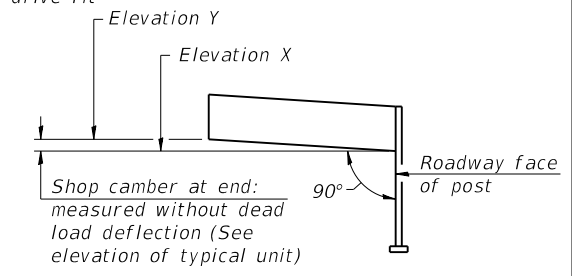
POST END JOINT DETAIL



ISOMETRIC VIEW TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"



CAMBER DIAGRAM
(For Fabrication Only)

OSC-A-2 2-17-2017



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PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

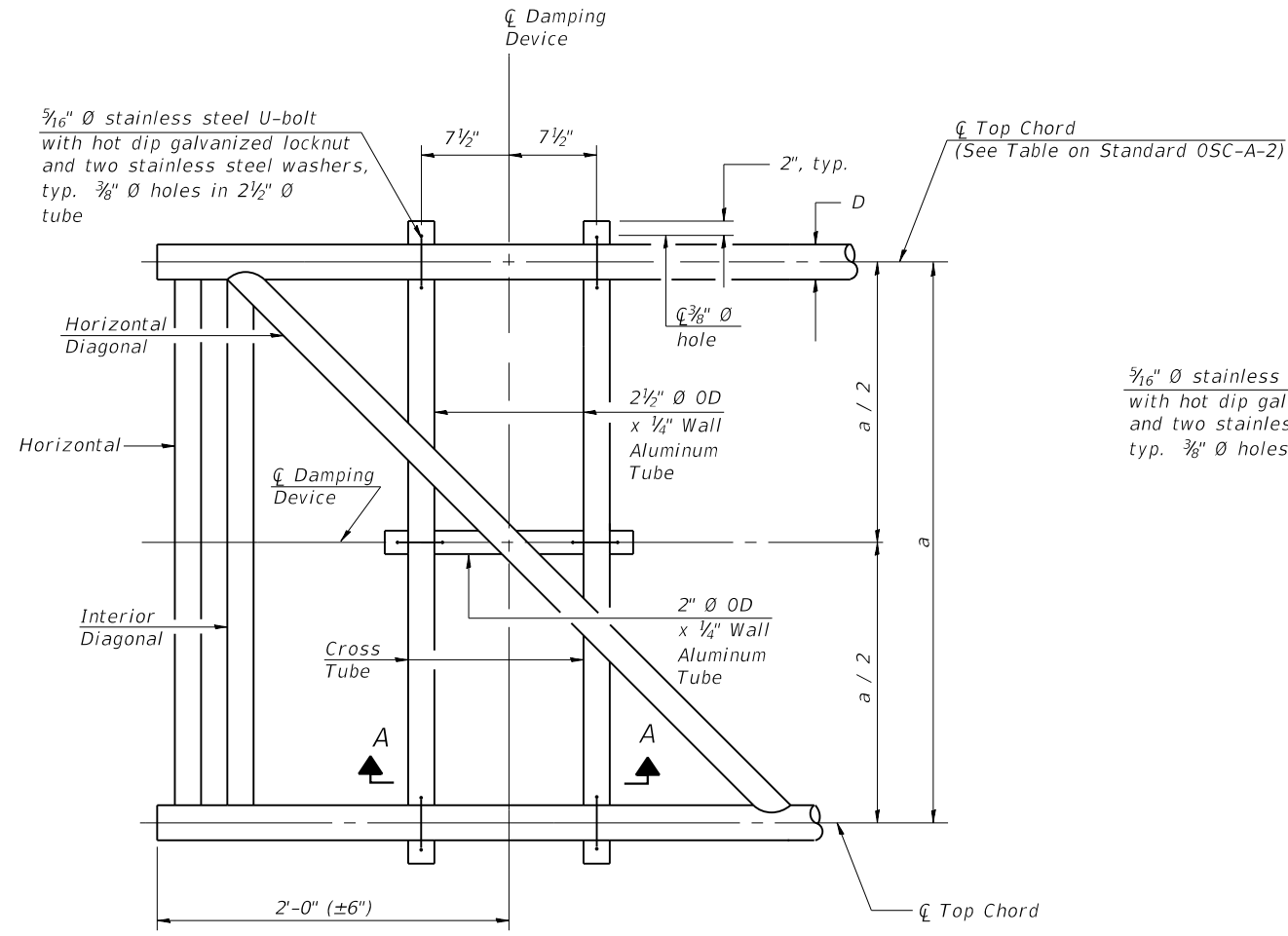
CANTILEVER SIGN STRUCTURES - TRUSS DETAILS ALUMINUM TRUSS & STEEL POST

SHEET 2 OF 9 SHEETS

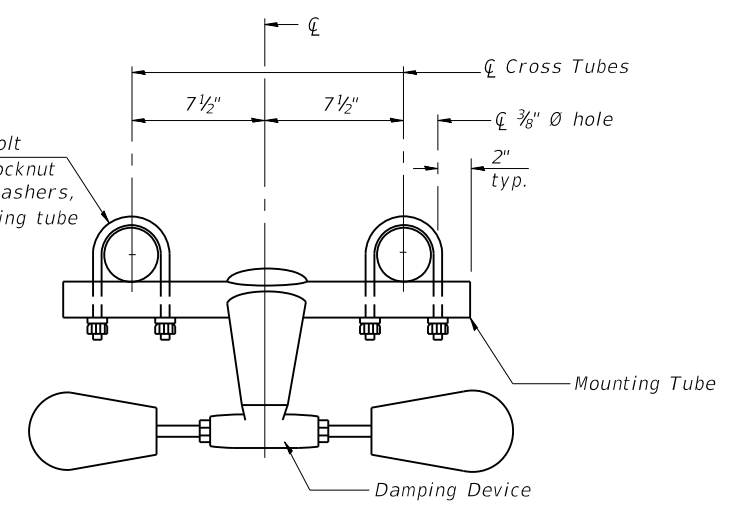
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	125
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

MODEL: G:\FE\Jobs\2019\19-1402_PTB_190-32_VARIOUS PHASE I & II DB - HMG\W0-02\CADD\Sheets\DE-76H84-Aluminum Cantilever Sign Truss-002.dgn

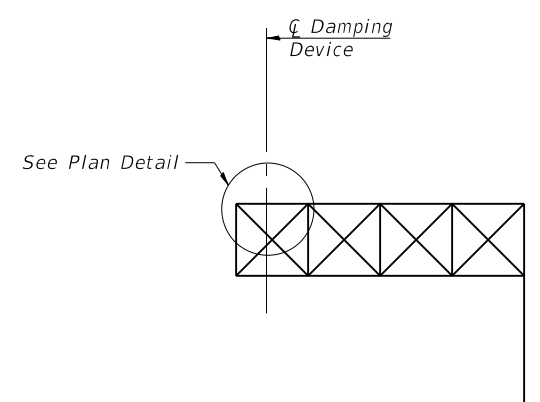
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PLAN DETAIL



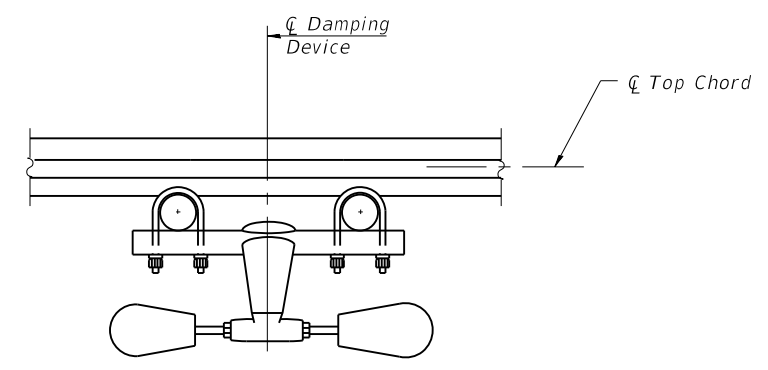
TRUSS DAMPING DEVICE CONNECTION DETAIL



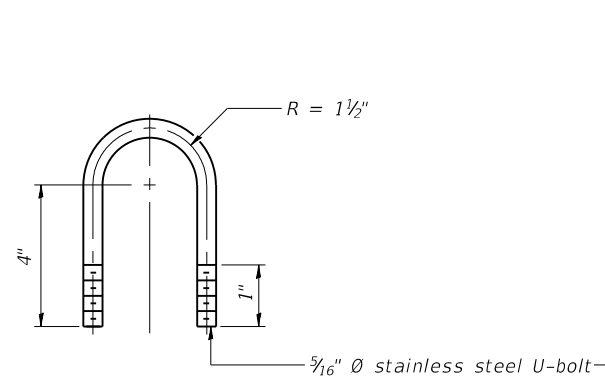
ELEVATION
Aluminum Cantilever Sign Structure

GENERAL NOTES

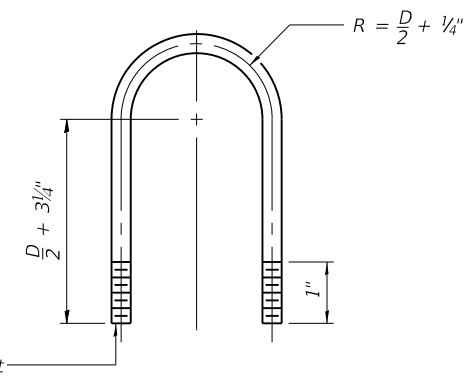
- Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)
- Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL (Typical)

OSC-A-D 2-17-2017



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	CHECKED - E.M. Lagemann	REVISED -

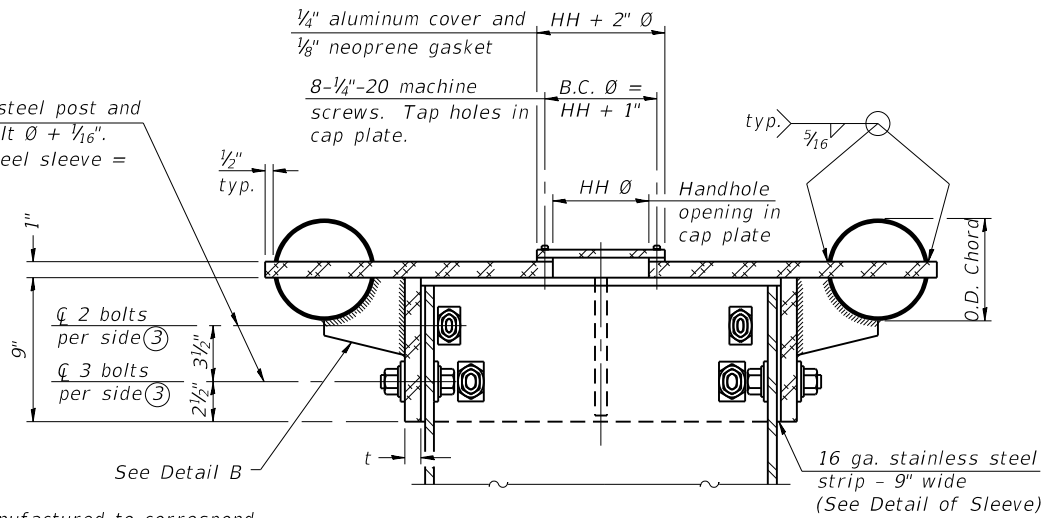
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE
DAMPING DEVICE

SHEET 3 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	126
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

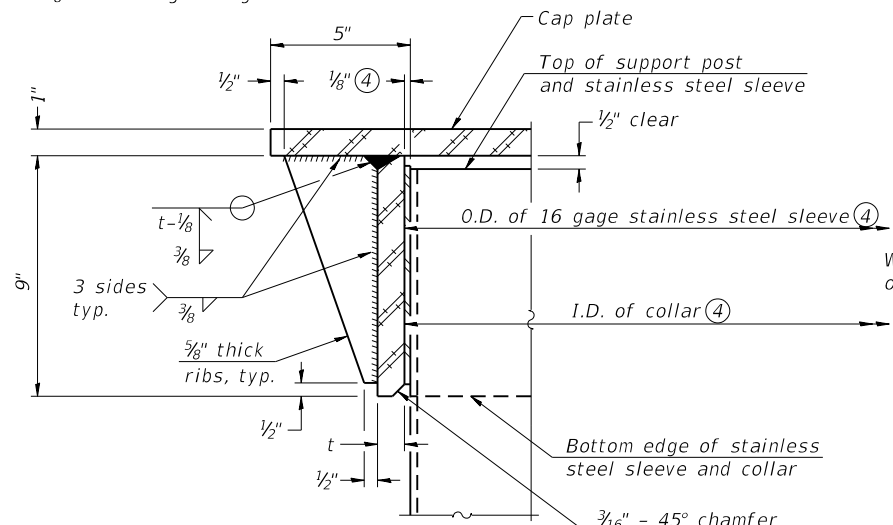
Holes in galvanized steel post and aluminum collar = bolt $\varnothing + 1/16"$.
Holes in stainless steel sleeve = bolt $\varnothing + 3/16"$.



④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus $1/8"$ ($\pm 1/16"$). Maximum gap between post and collar at any location equals $1/8"$ before tightening bolts.

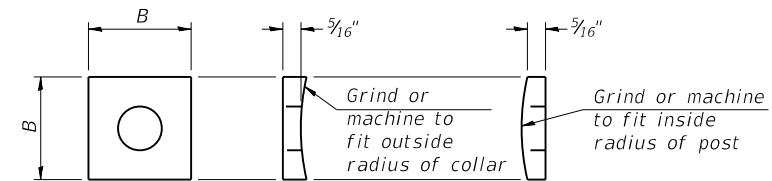
SECTION B-B

Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



DETAIL A
(Two locations)

$3/16"$ - 45° chamfer on inside of collar to facilitate field assembly

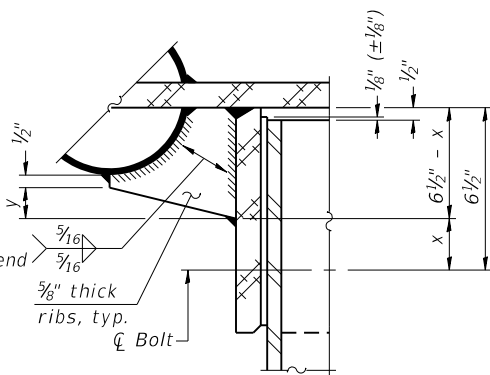
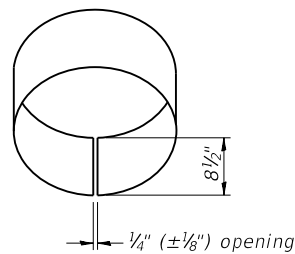


CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

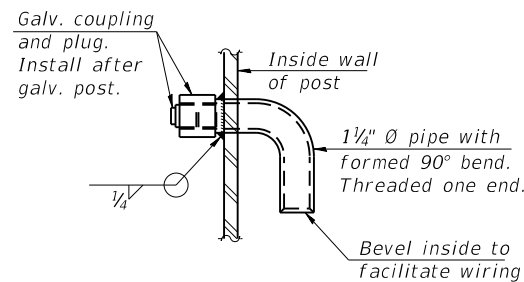
DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be $1 1/2"$ long at $6"$ cts. along top edge and at $1/4"$ opening.

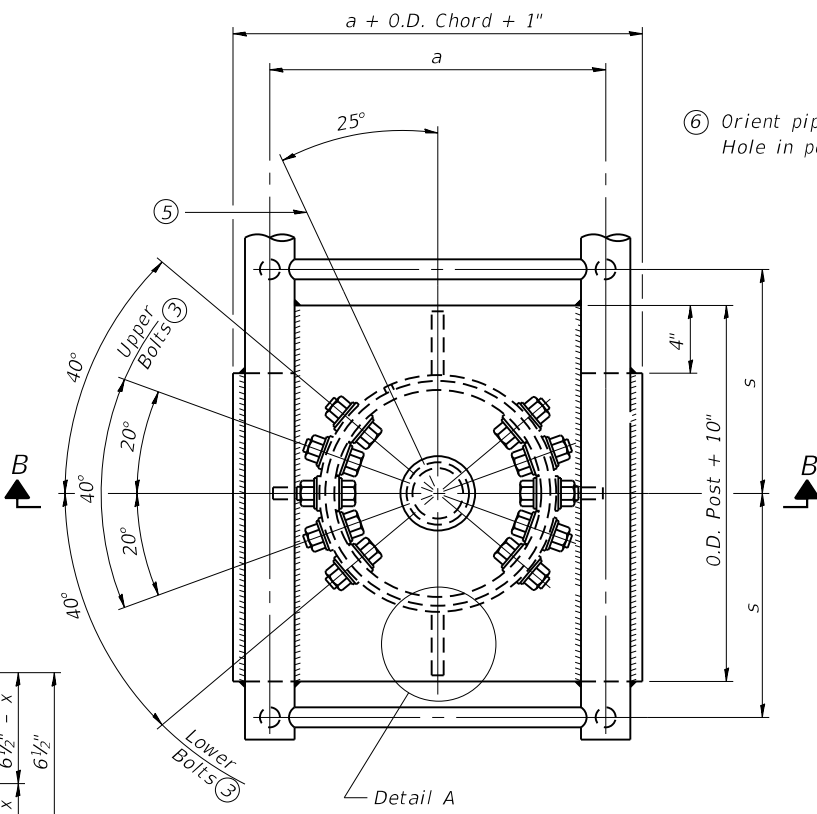


DETAIL B

Two locations (For details not shown, see Detail C)

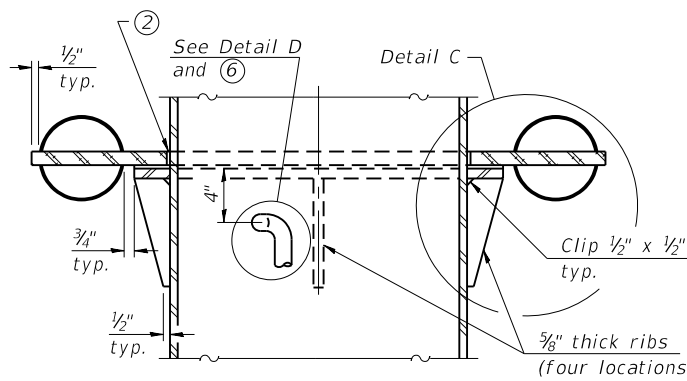


DETAIL D

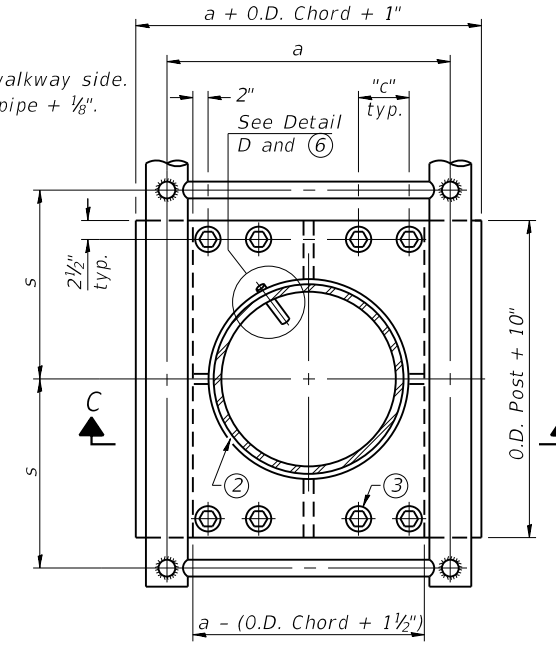


PLAN VIEW - TOP OF COLUMN

⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)

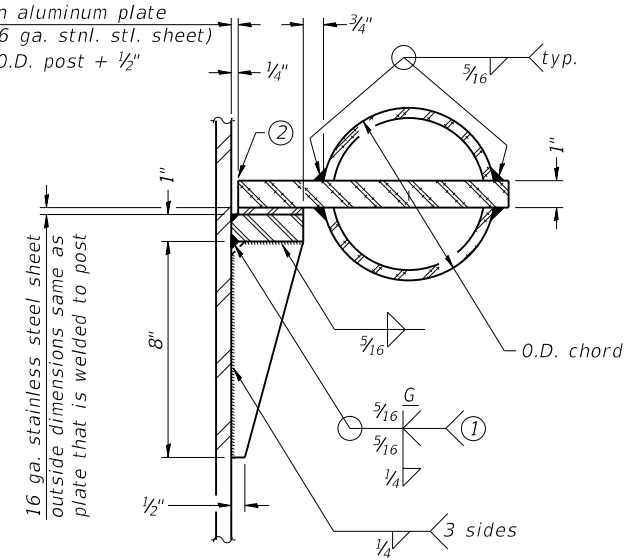


SECTION C-C



SECTION THRU POST ABOVE LOWER CHORDS

Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + $1/2"$



DETAIL C

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.
- ③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" \varnothing (83#/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" \varnothing (125#/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" \varnothing (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" \varnothing (171#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

OSC-A-3

2-17-2017



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DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

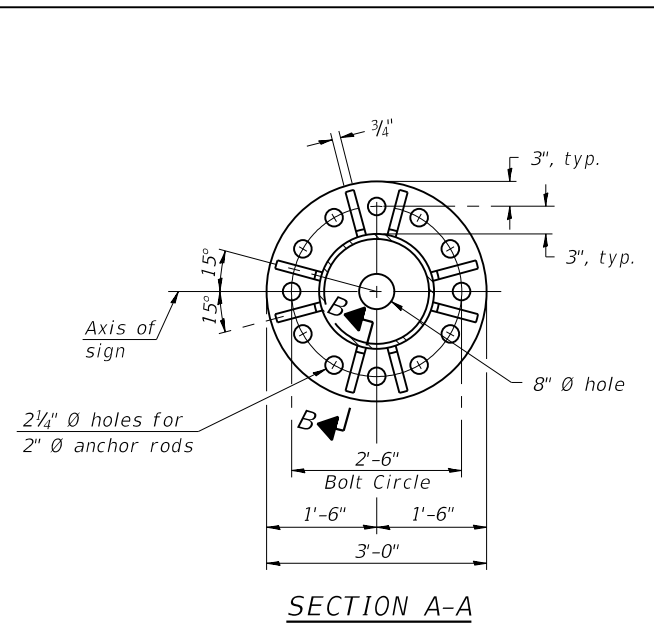
SHEET 4 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	127
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

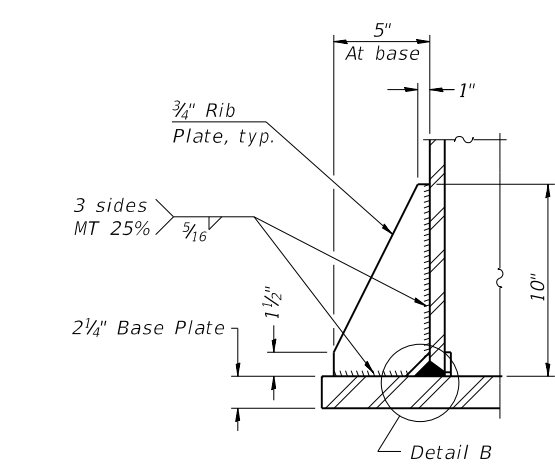
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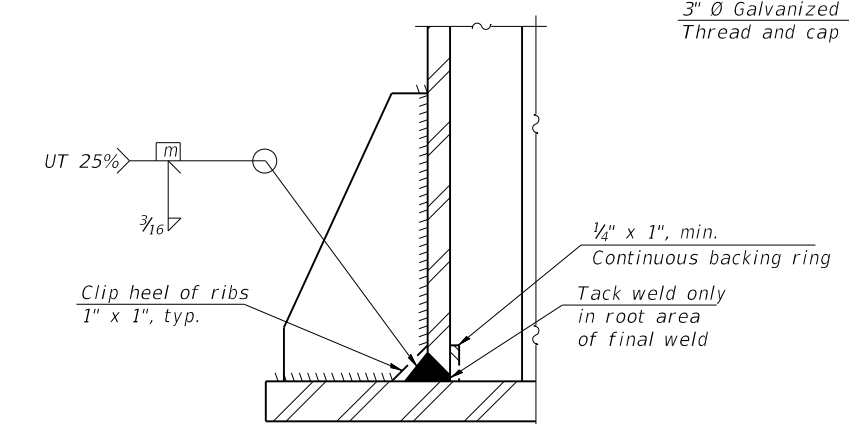
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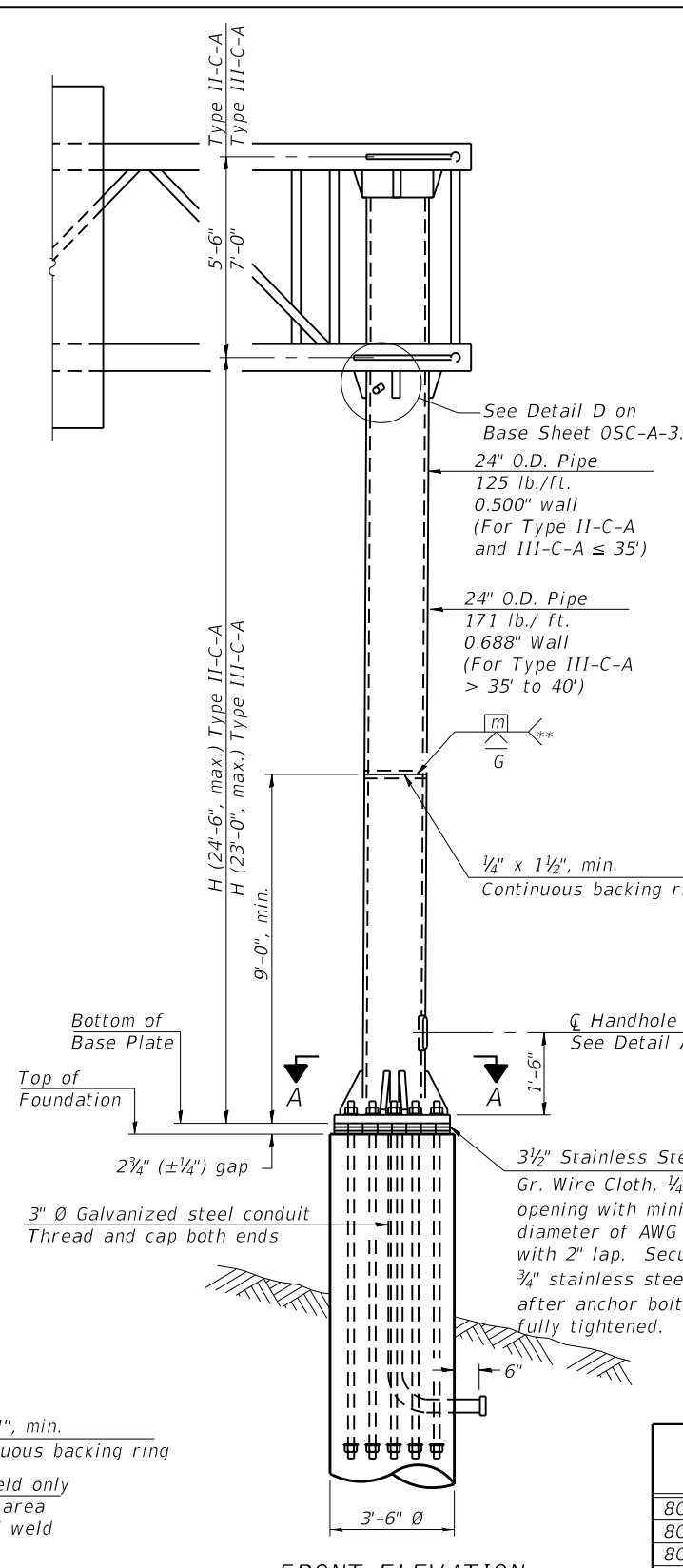
SECTION A-A



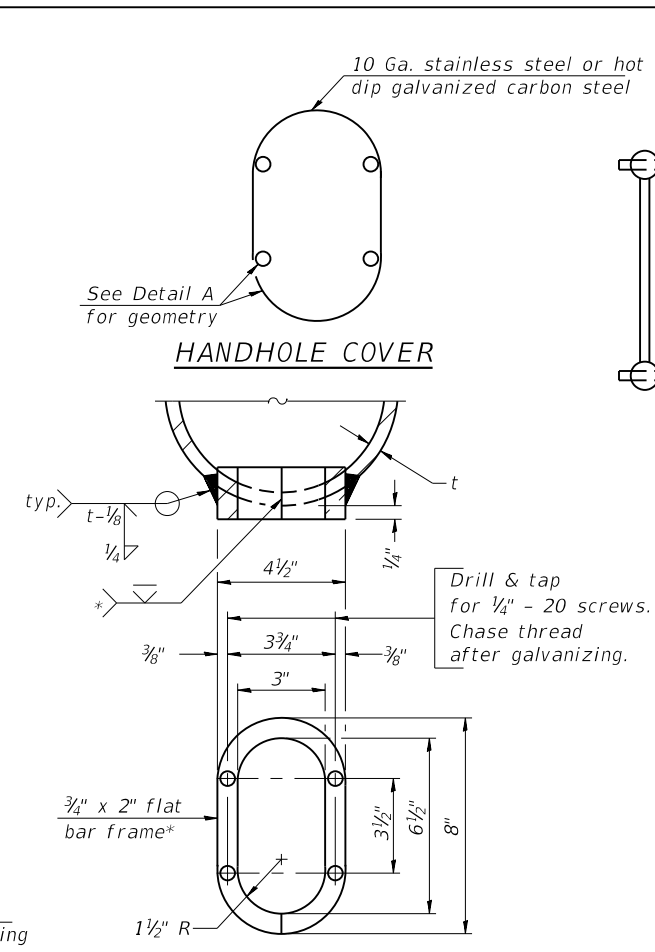
SECTION B-B



DETAIL B
(Typical rib)



FRONT ELEVATION
For Foundation Details see Base Sheet OSC-A-9.



DETAIL A

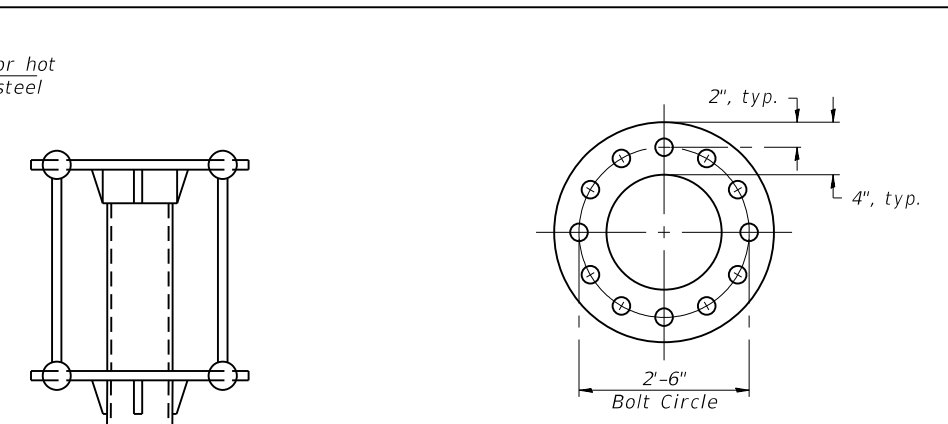
Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-3/16" Ø holes in cover for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.

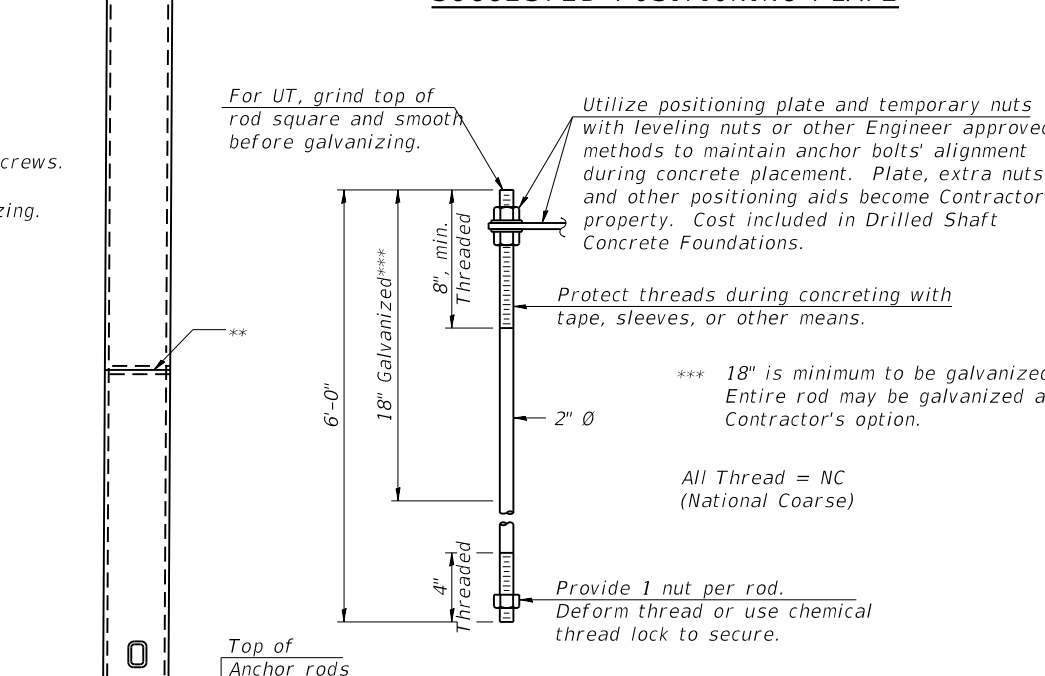
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
8C0601055L019.5	1277+70.00	20'-9"
8C0601055R019.4	1281+27.00	22'-0"
8C0601055R018.7	1321+69.00	22'-9"

Note: "H" based on 15'-0" or actual sign height, whichever is greater.



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

Utilize positioning plate and temporary nuts with leveling nuts or other Engineer approved methods to maintain anchor bolts' alignment during concrete placement. Plate, extra nuts and other positioning aids become Contractor's property. Cost included in Drilled Shaft Concrete Foundations.

Protect threads during concreting with tape, sleeves, or other means.

*** 18" is minimum to be galvanized. Entire rod may be galvanized at Contractor's option.

All Thread = NC (National Coarse)

Provide 1 nut per rod. Deform thread or use chemical thread lock to secure.

SIDE ELEVATION

OSC-A-5

2-17-2017



DESIGNED - T.S. Friederich	REVISED -
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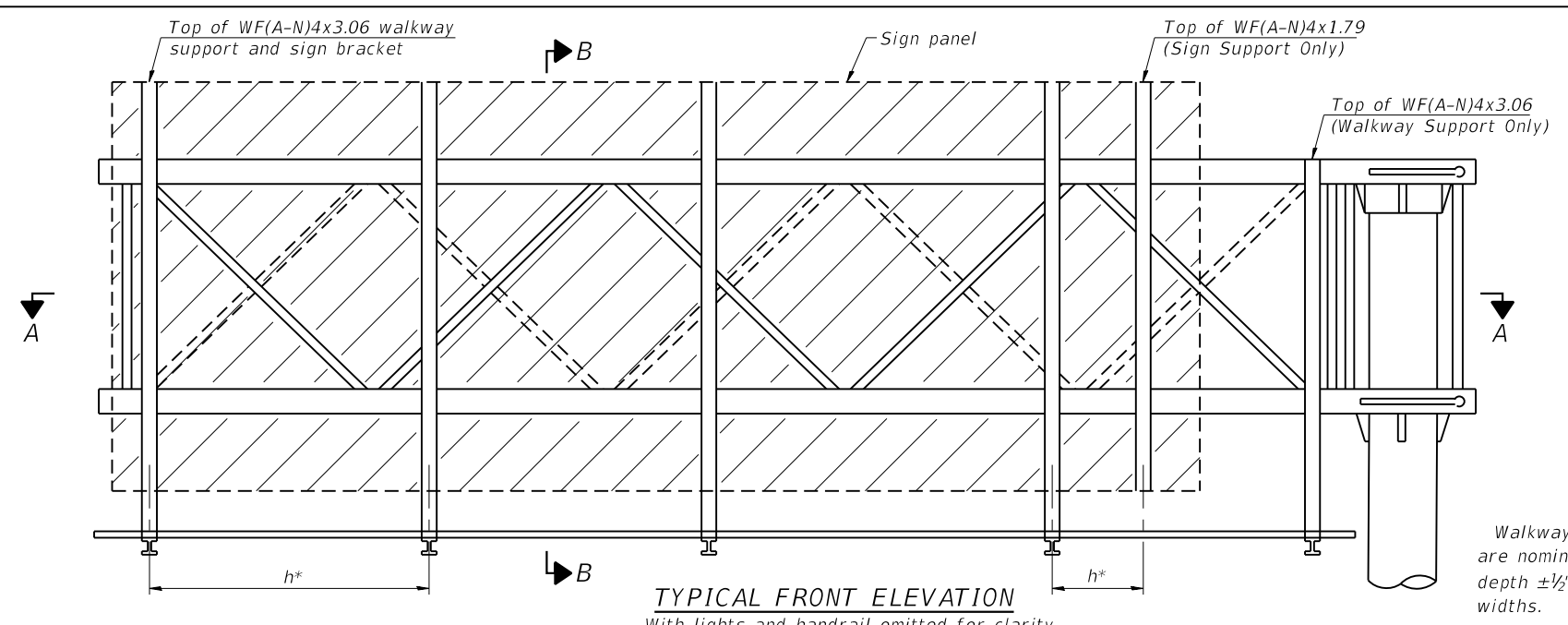
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

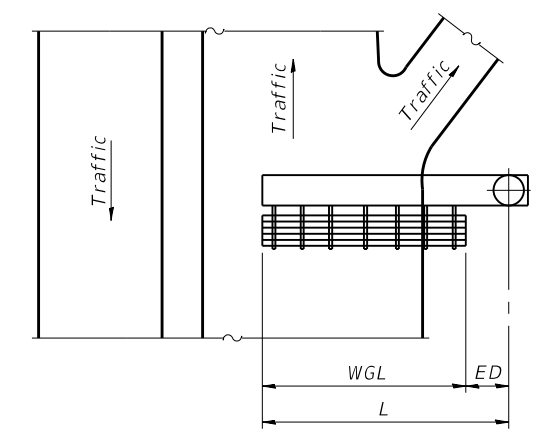
SHEET 5 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	128
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

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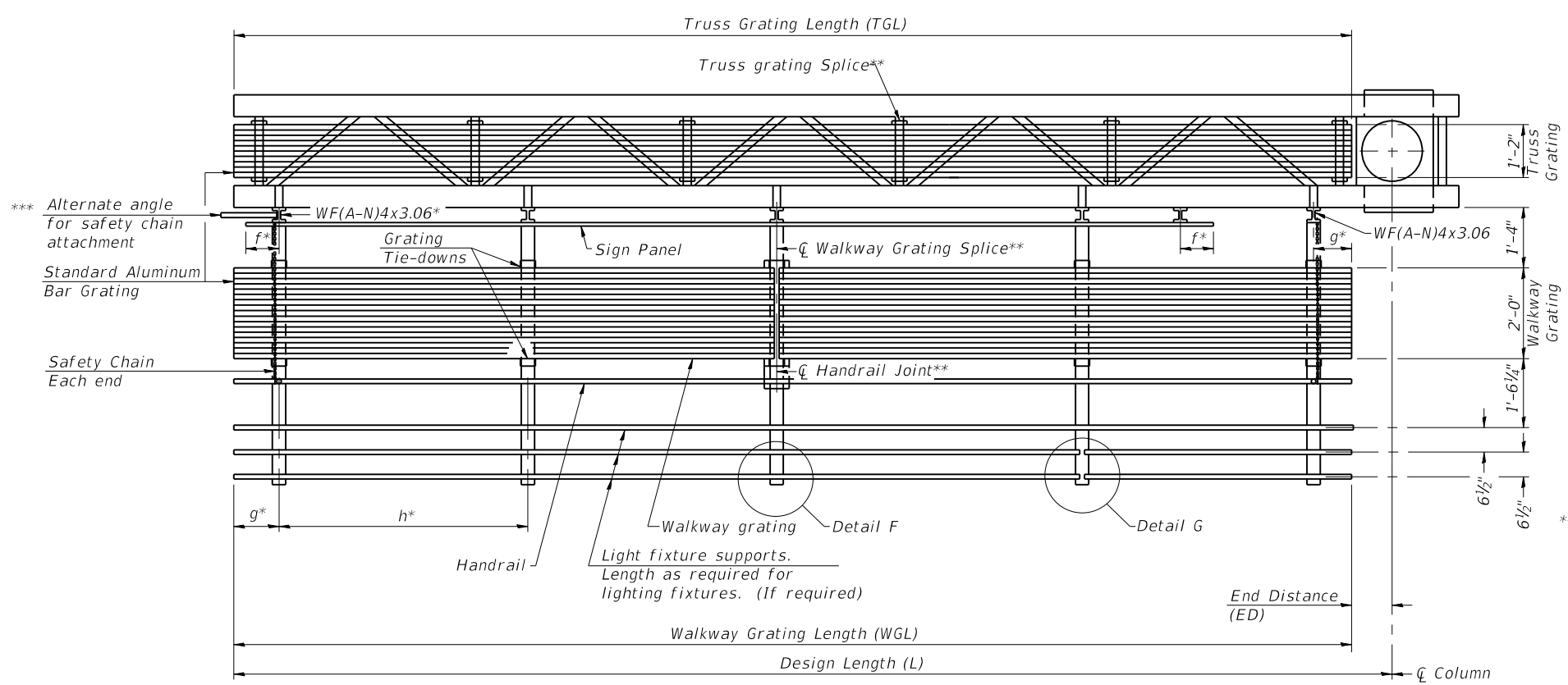


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.



PLAN WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard widths.



SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6'' \right)$$

Structure Number	Station	WGL	ED	TGL
8C0601055L019.5	1277+70.00	19'-6"	18'-6"	36'-6"
8C0601055R019.4	1281+27.00	24'-0"	13'-0"	35'-6"
8C0601055R018.7	1321+69.00	17'-0"	17'-0"	32'-6"

Notes:
* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to center of nearest bracket)
h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

OSC-A-6 2-17-2017



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	CHECKED - E.M. Lagemann	REVISED -

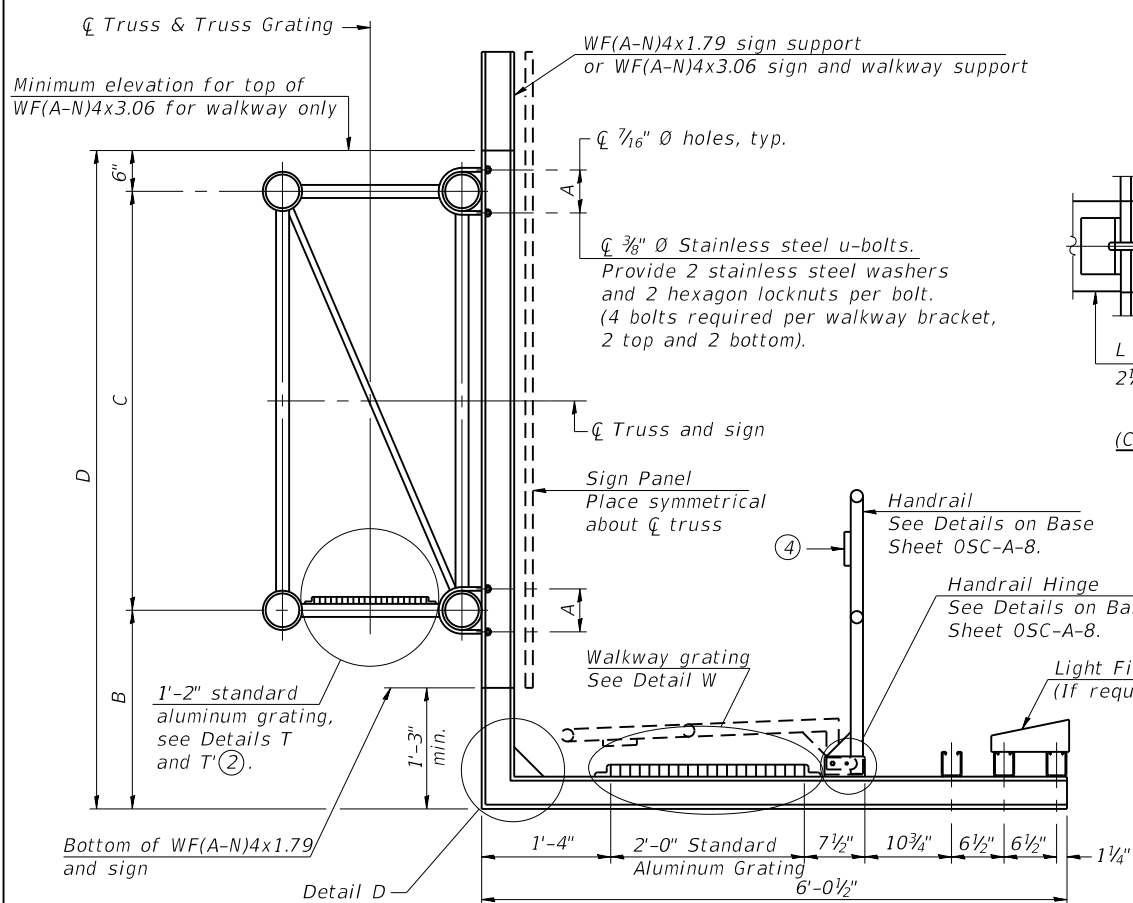
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY
DETAILS - ALUMINUM TRUSS & STEEL POST**

SHEET 6 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	129
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

MODEL: G:\FE\Jobs\2019\19-1402_PTB_190-32_VARIOUS PHASE I & II DB - HMG\WO-02\CADD\Sheets\DSF-76H84-Aluminum Cantilever Sign Truss-006.dgn
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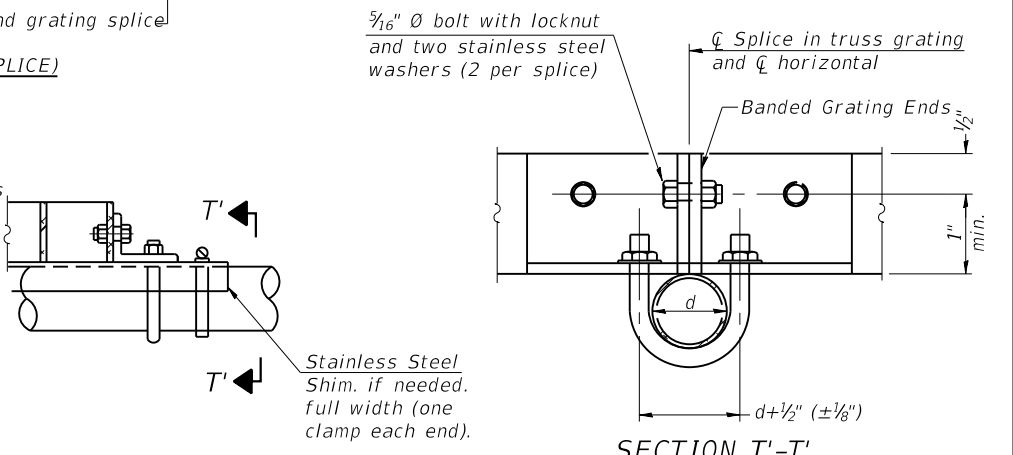
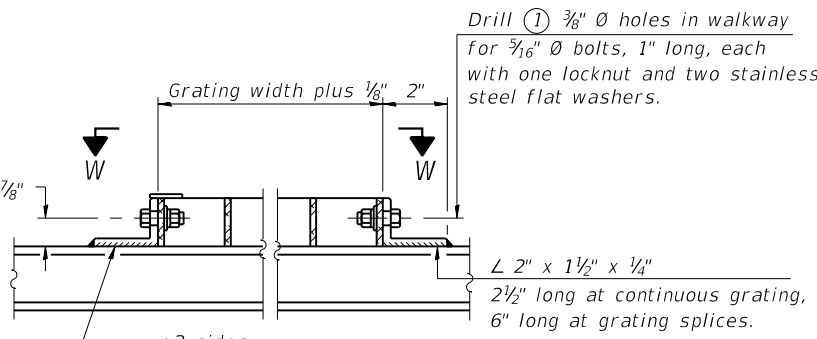
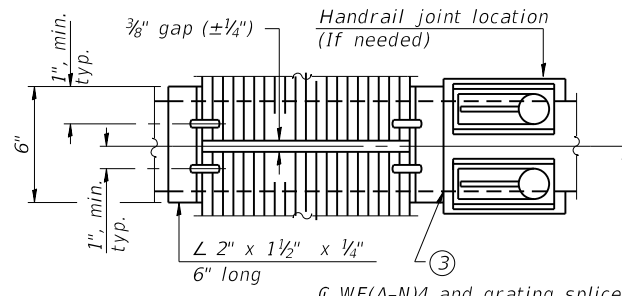
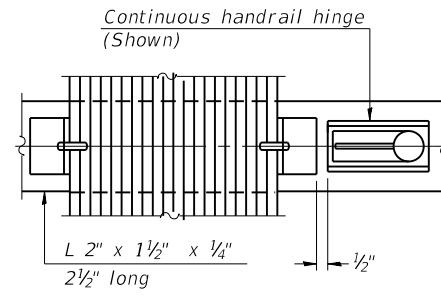


SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
 Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

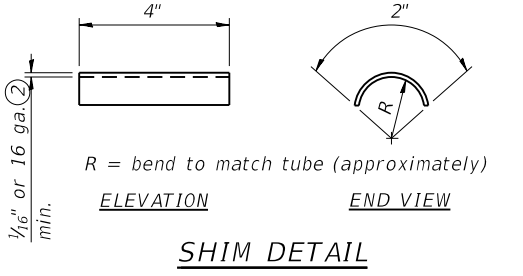
OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



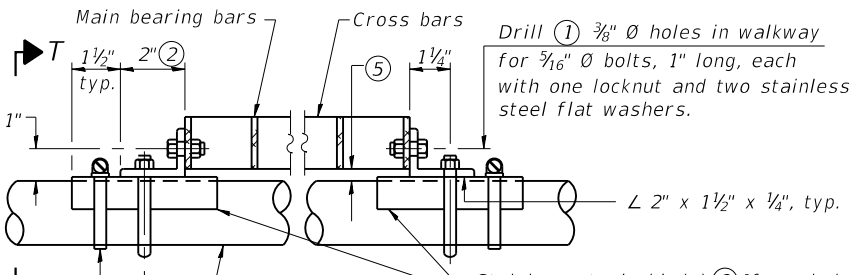
DETAIL T'

(Truss grating splice)
 Details not shown same as Detail T.
 Alternate materials may be used subject to the Engineer's review and approval.



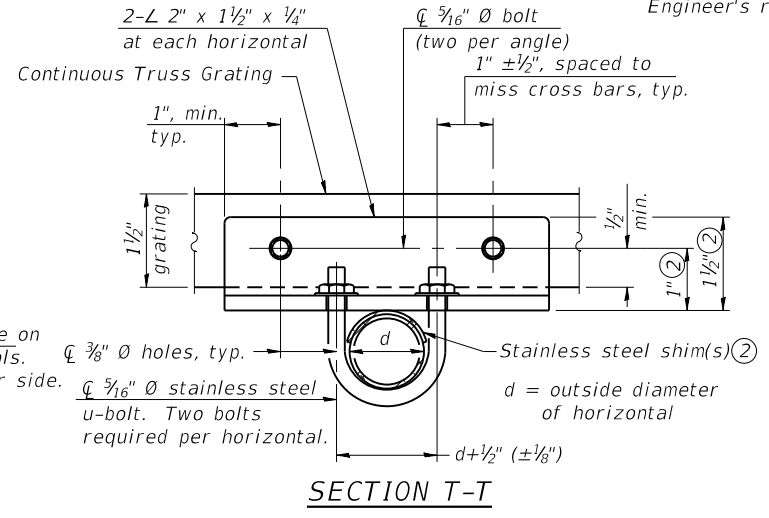
SECTION B-B

Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



DETAIL W

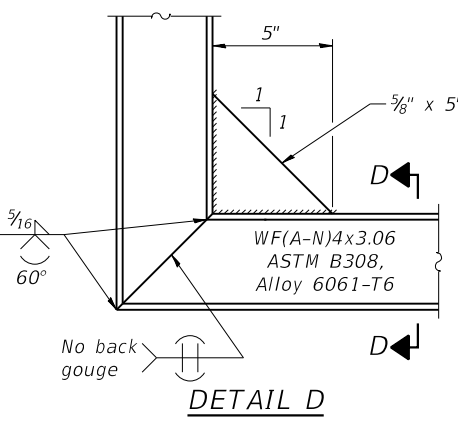
(Walkway grating)



SECTION T-T

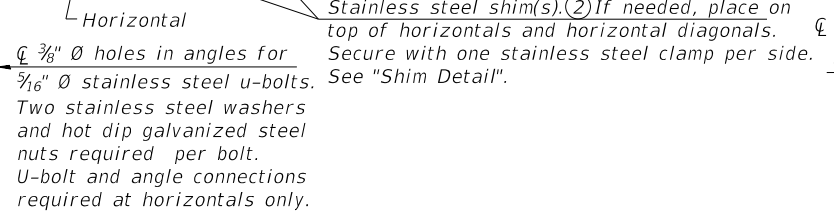
SECTION D-D

Screw type stainless steel tube clamp at shim location



DETAIL T

(Continuous Truss grating)



Structure Number	Station	A	⑥ B	C	⑥ D
8C0601055L019.5	1277+70.00	8 1/2"	3'-3"	7'-0"	10'-9"
8C0601055R019.4	1281+27.00	8 1/2"	3'-3"	7'-0"	10'-9"
8C0601055R018.7	1321+69.00	7 1/2"	3'-3"	7'-0"	10'-9"

OSC-A-7 2-17-2017



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	CHECKED - E.M. Lagemann	REVISED -

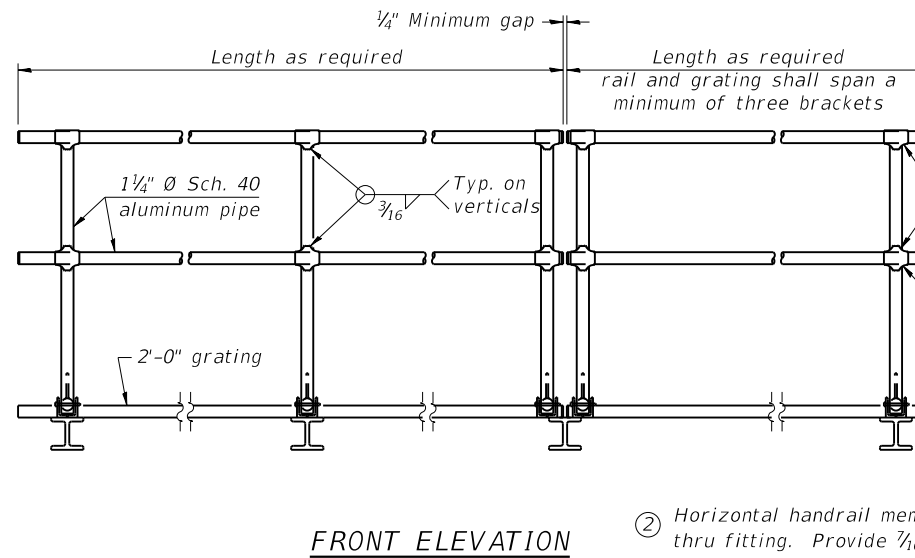
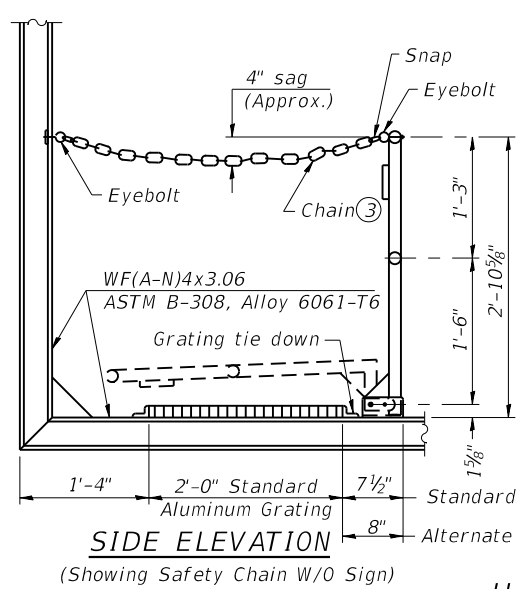
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - WALKWAY DETAILS
 ALUMINUM TRUSS & STEEL POST

SHEET 7 OF 9 SHEETS

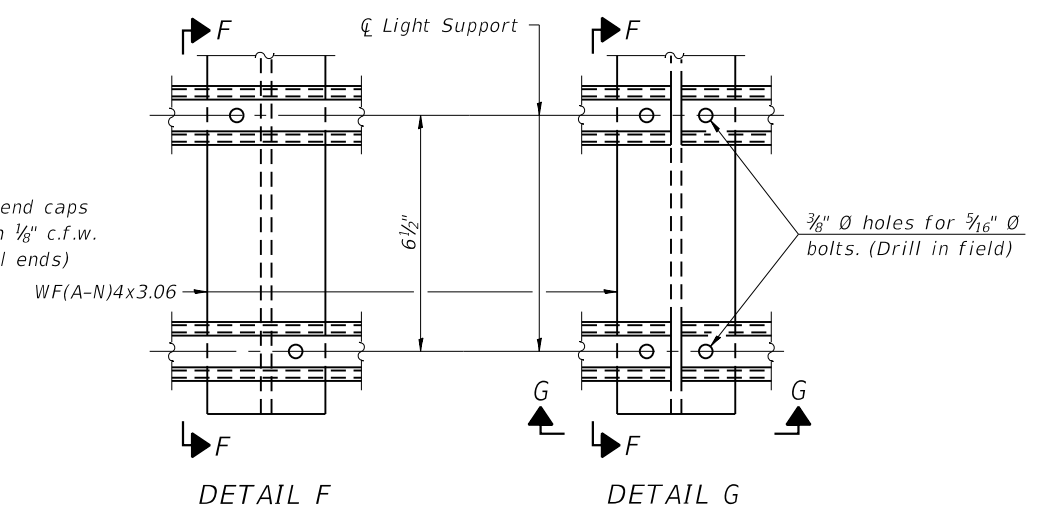
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	130
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

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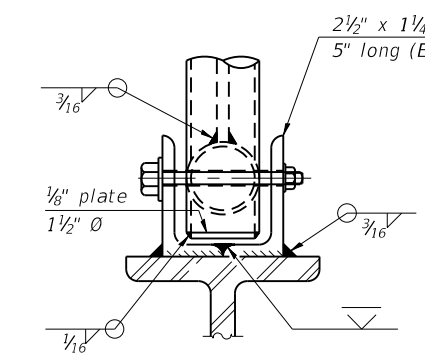
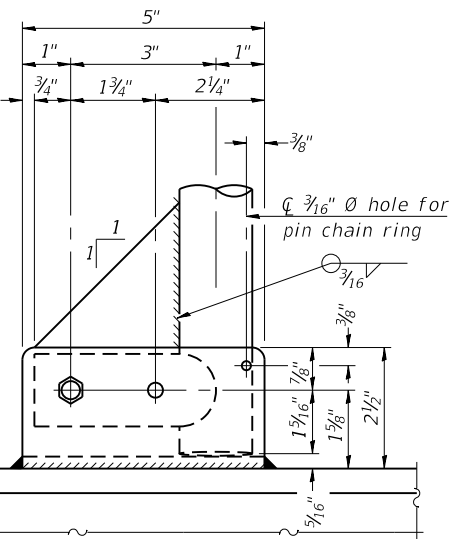
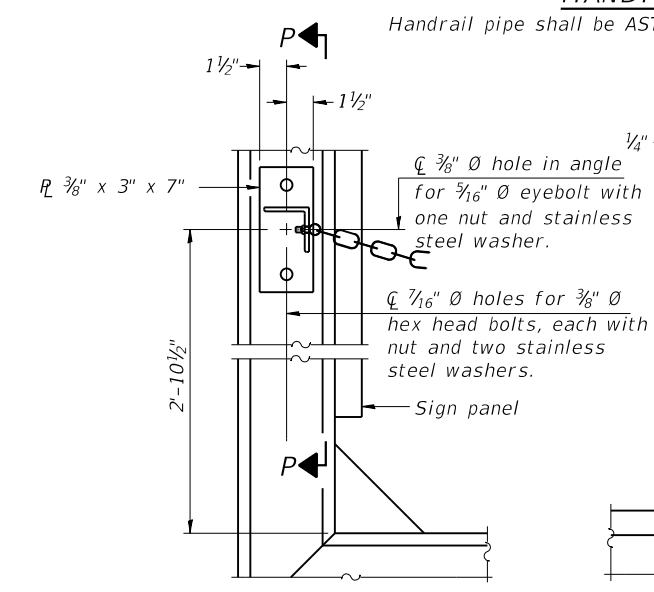
① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)

Fittings-ASTM B26, Alloy 356-T7 or 1 1/2"Ø aluminum pipe

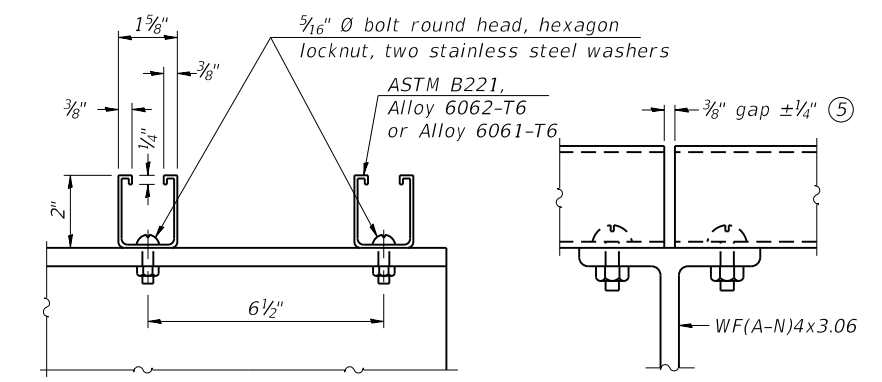


② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" Ø hole in fitting for 3/8" Ø bolt. Field drill 7/16" Ø hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" Ø holes on top rail at ends only.)

HANDRAIL DETAILS
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

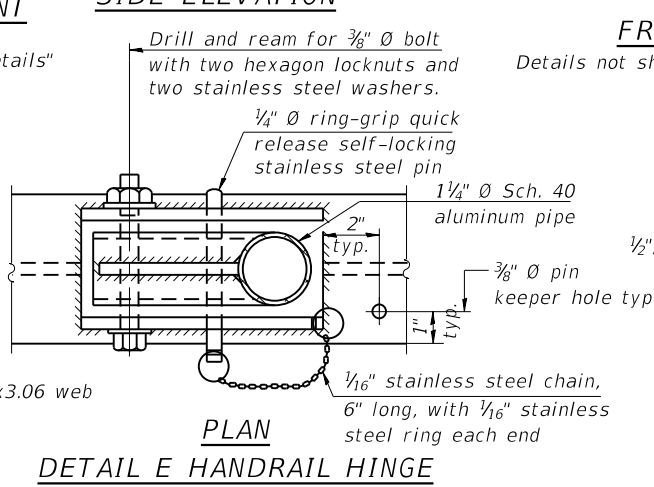
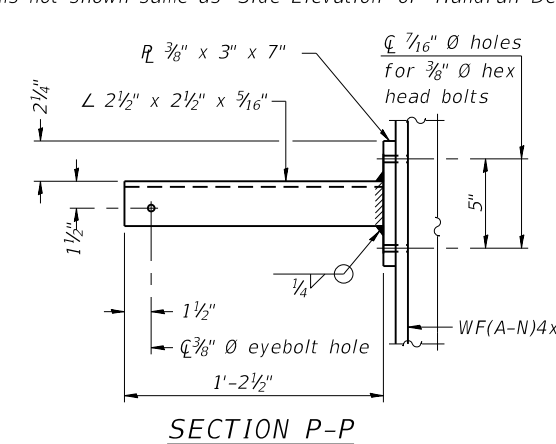


ELEVATION AT HANDRAIL JOINT ④
Details not shown same as "FRONT ELEVATION"

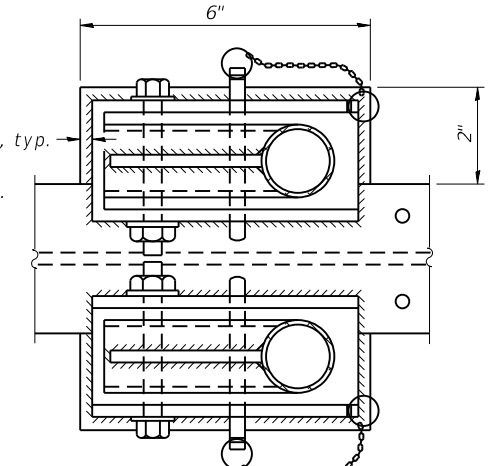


SECTION F-F
SECTION G-G
LIGHTING FIXTURE MOUNTS (IF REQUIRED)
⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

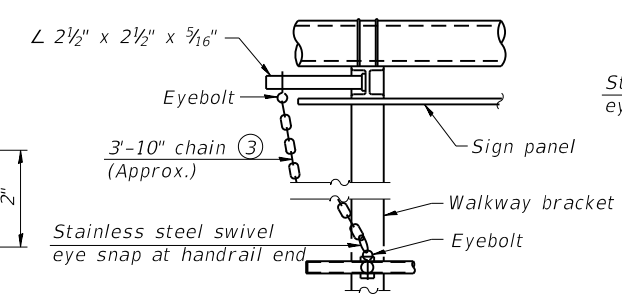
ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



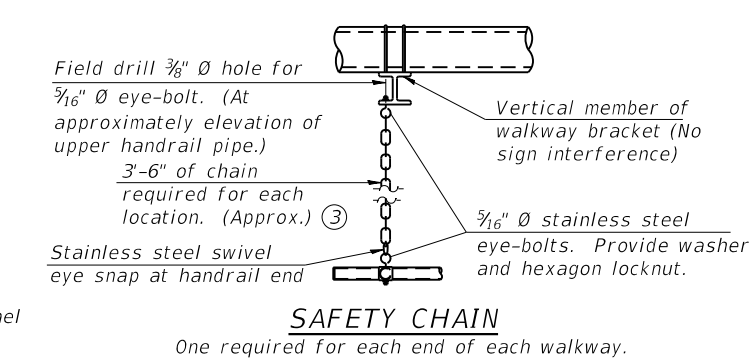
FRONT ELEVATION
Details not shown same as "ELEVATION" at right.



PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)



③ 3/16" Type 304L stainless steel chain, approximately 12 links per foot.
④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

MODEL: G:\FE\Jobs\2019\19-1402_PTB_190-32_VARIOUS PHASE I & II DB - HMG\WO-02\CADD\Sheet\DS-76H84-Aluminum Cantilever Sign Truss-008.dgn
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2-17-2017

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USER NAME =	DESIGNED - T.S. Friederich	REVISED -
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PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

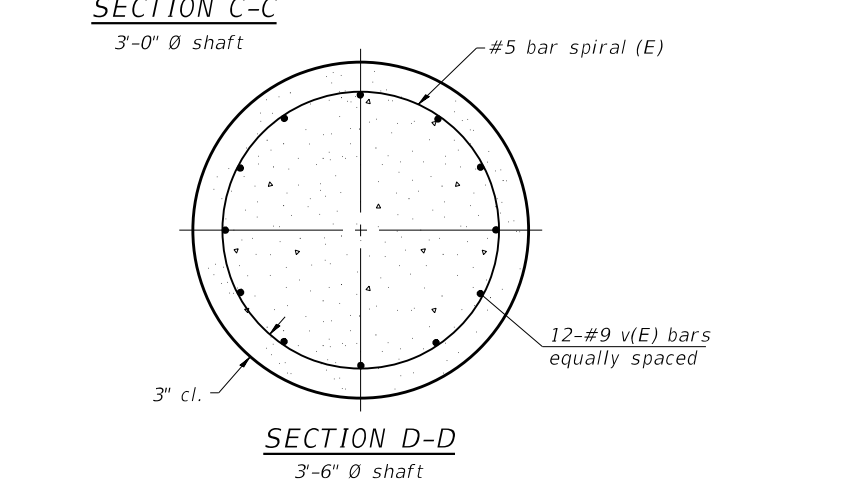
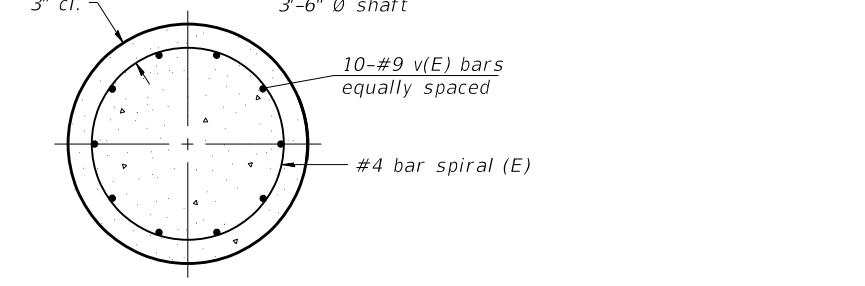
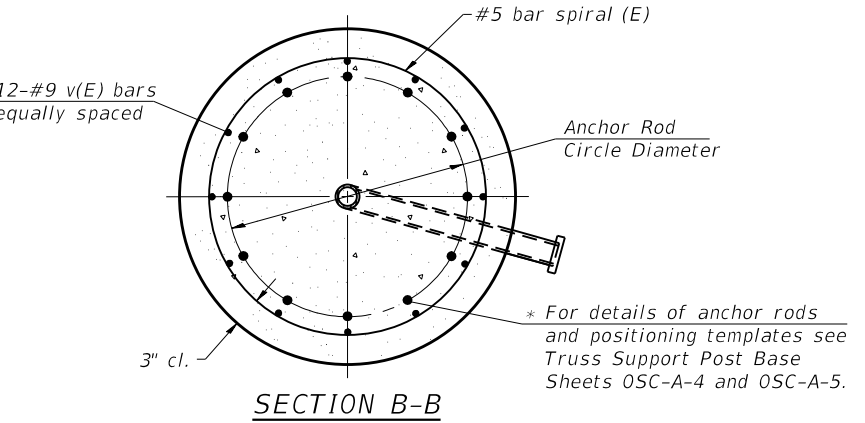
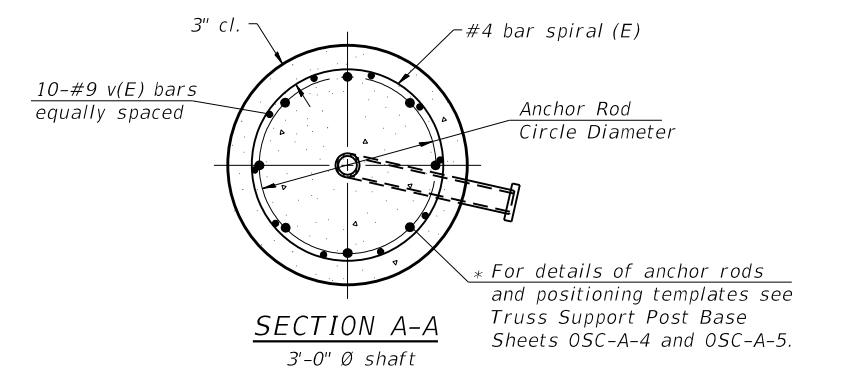
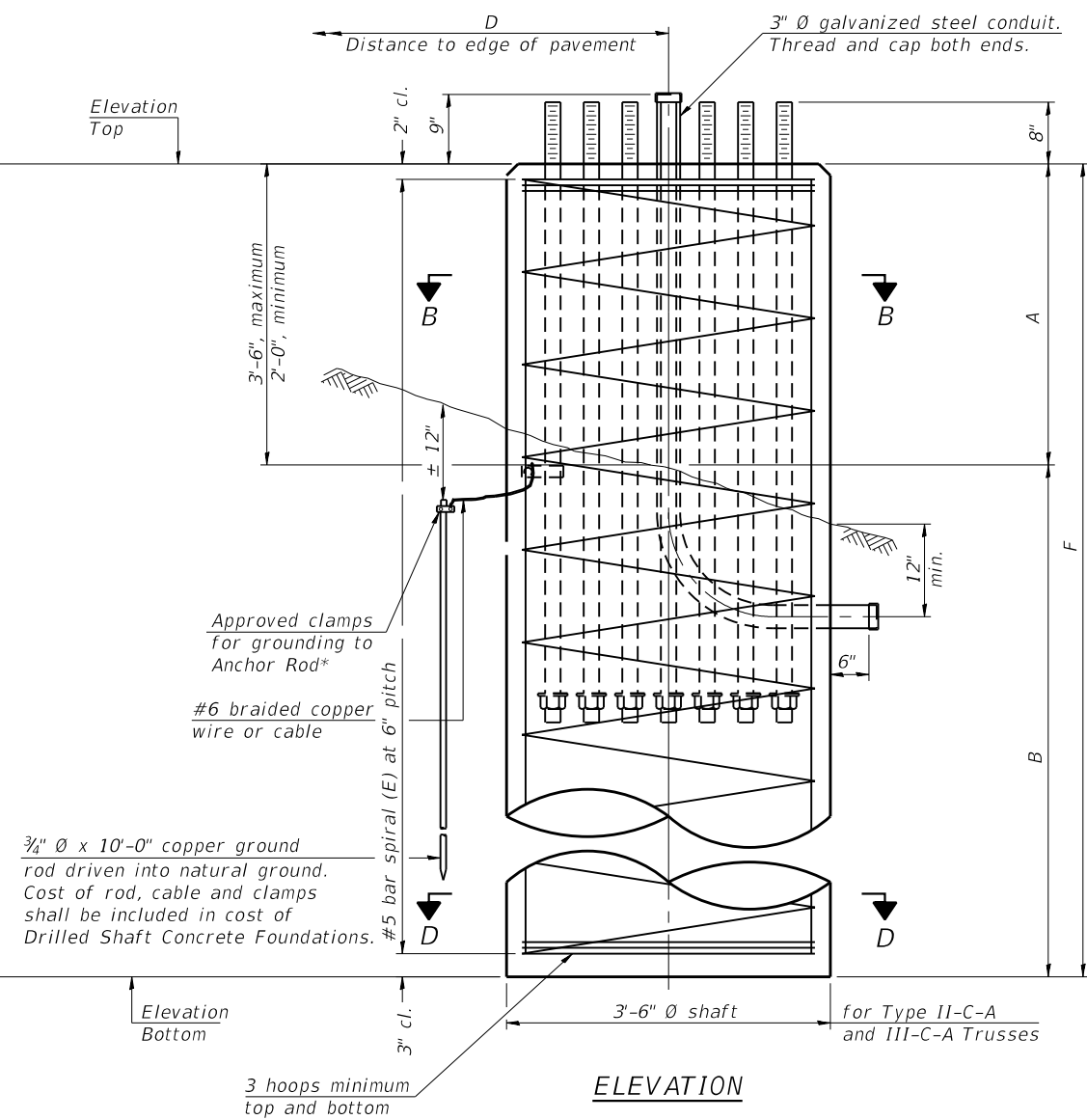
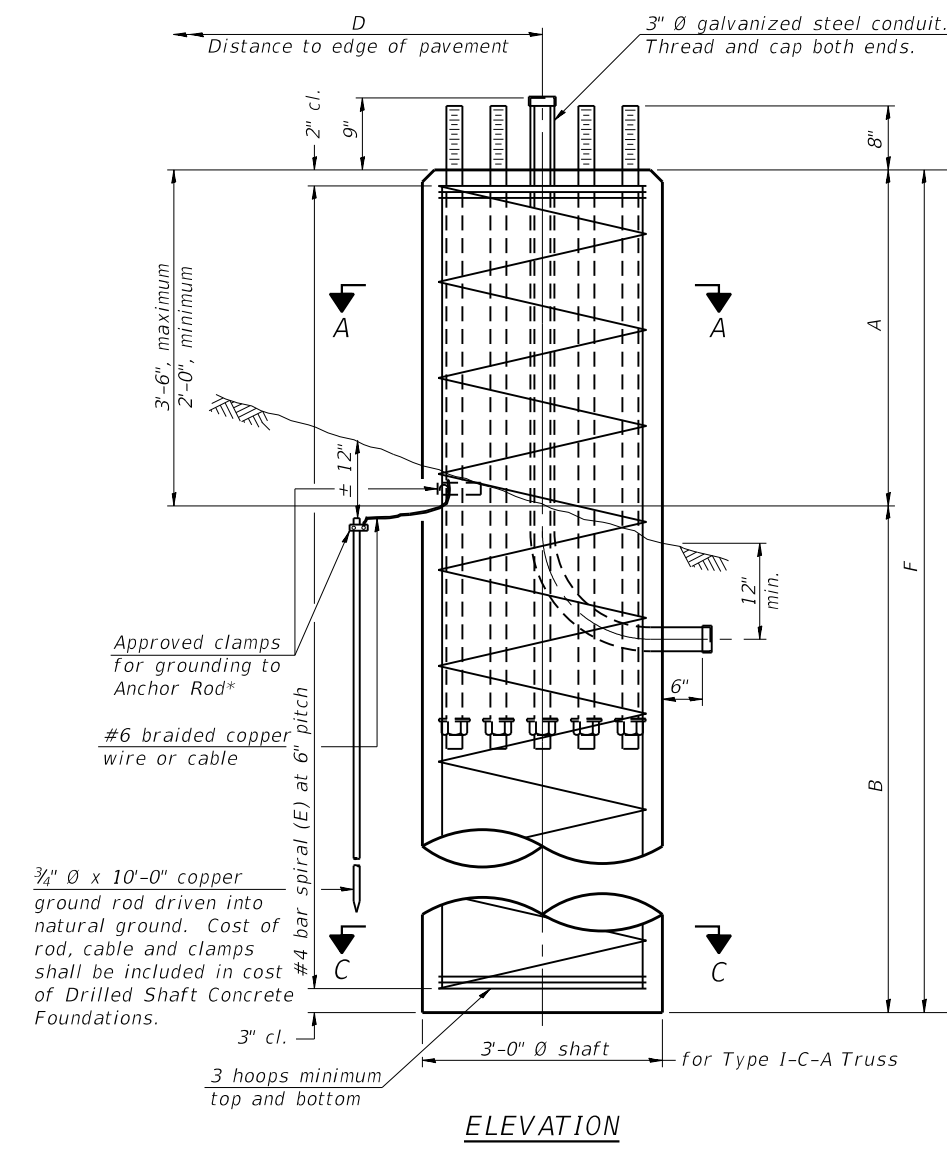
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - HANDRAIL DETAILS
ALUMINUM TRUSS & STEEL POST

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	131
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT				

SHEET 8 OF 9 SHEETS

* Grind anchor rod to bright finish at ground clamp location before installing clamp.



NOTES:
 The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	Diameter (in)	
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
8C0601055L019.5	1277+70.00	III-C-A	3'-6"	568.75	534.00	1.87	2'-9"	32'-0"	34'-9"	12.4
8C0601055R019.4	1281+27.00	III-C-A	3'-6"	565.22	530.47	1.77	2'-9"	32'-0"	34'-9"	12.4
8C0601055R018.7	1321+69.00	III-C-A	3'-6"	568.15	538.90	1.99	2'-9"	26'-6"	29'-3"	10.4

OSC-A-9 2-17-2017

	DESIGNED - T.S. Friederich	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES - DRILLED SHAFT ALUMINUM TRUSS & STEEL POST	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - E.M. Lagemann	REVISOR -			70	60-(10-11)RS-1	MADISON	209	132
PLOT SCALE -	DRAWN - T.S. Friederich	REVISOR -	SHEET 9 OF 9 SHEETS		CONTRACT NO. 76H84				
PLOT DATE -	CHECKED - E.M. Lagemann	REVISOR -			ILLINOIS FED. AID PROJECT				

STRUCTURE NO. 8S060I070L016.2

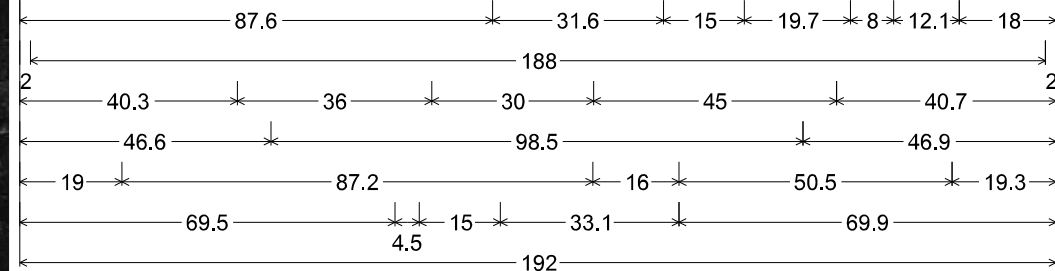
EXISTING STA. 999+87 FAI-70 WEST BOUND
EXISTING GUIDE SIGN ON STRUCTURE

PROPOSED GUIDE SIGN ON STRUCTURE
ALUMINUM SIGN SPAN TRUSS & SUPPORTS TO BE REPLACED STA 1000+12
(SEE STRUCTURE PLANS)

SIGN PANEL REMOVAL - TYPE 3, 240.0 SQ FT
SIGN PANEL - TYPE 3, 240.0 SQ FT
NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



12.0" Radius, 2.0" Border, White on, Green;
"EXIT", E 2K 120% spacing; "15", E 2K; "B", E 2K; "Chicago", E Mod 2K;
"Kansas City", E Mod 2K; "1 MILE", E 2K;

Table of widths and spaces

87.6	E	7.5	X	1.7	8.7	I	2.4	1.8	T	2.0	7.5	15.0	1	4.5	5	3.0	12.2	8.0	B	12.1	18.0	
2.0	188.0		2.0																			
40.3	55	36.0	30.0	270	45.0	40.7																
46.6	C	12.9	4.5	h	10.6	6.4	i	3.2	4.9	c	10.6	3.5	a	10.6	4.9	g	10.6	4.9	o	10.9	46.9	
19.0	K	13.1	2.1	a	10.5	6.4	n	10.6	4.6	s	10.6	3.5	a	10.6	4.6	s	10.6					
		16.0		C	12.9	4.5	i	3.2	4.6	t	8.4	3.3	y	13.6	19.3							
69.5	1	4.5	M	15.0	9.4	2.6	I	1.8	2.6	L	7.5	1.7	E	7.5	69.9							

MODEL: Default
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 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
(618) 526-9611

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 4,0000' / in.	DRAWN - M.OBRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 1 OF 20 SHEETS STA. TO STA.

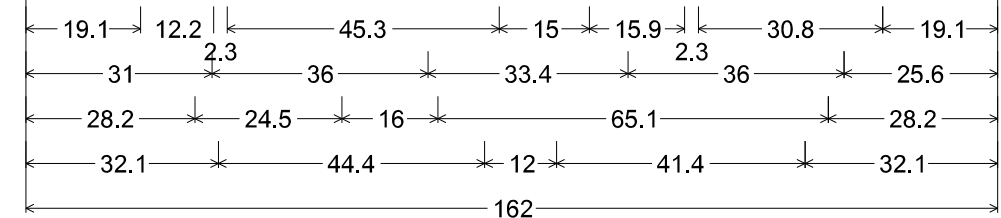
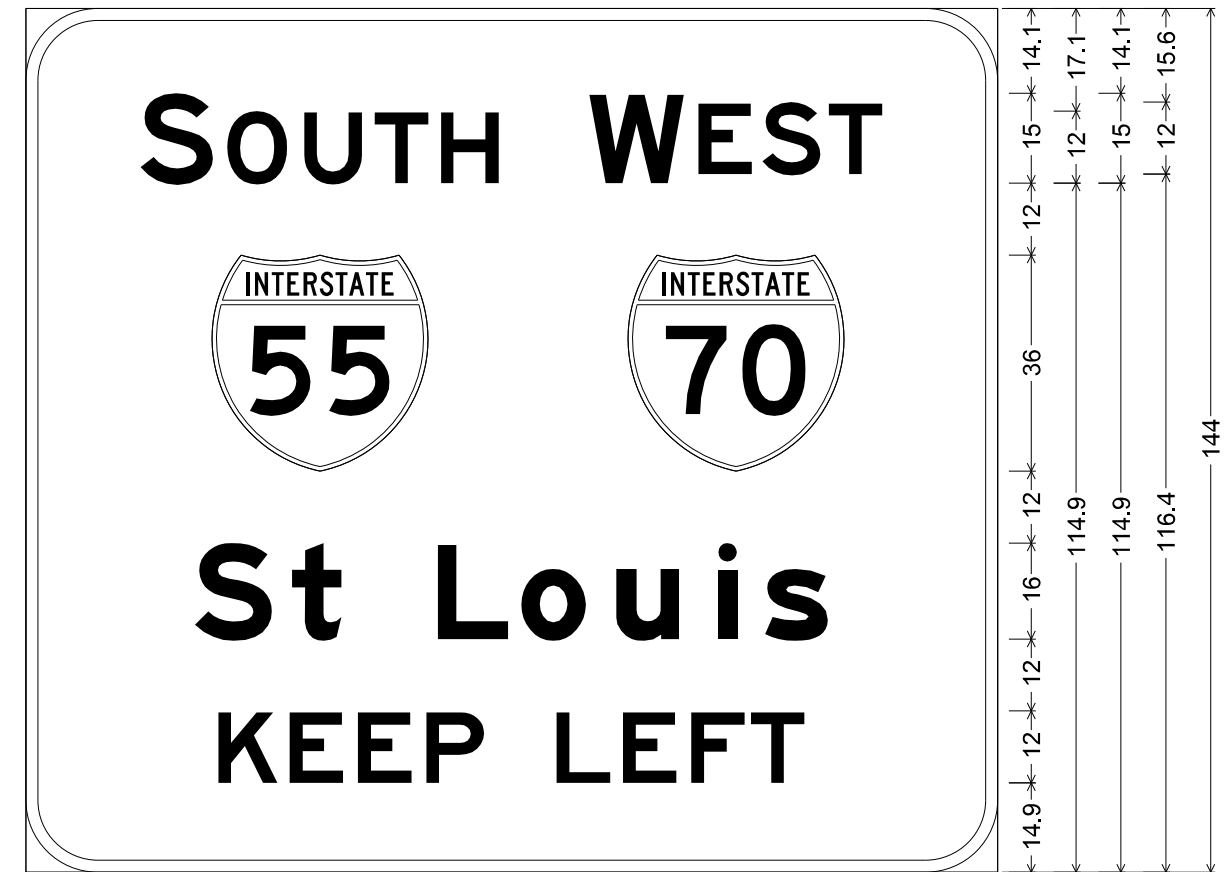
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	133
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

STA. 975+20 FAI-70 WEST BOUND
 EXISTING GUIDE SIGN ON STRUCTURE
 PROPOSED GUIDE SIGN ON STRUCTURE

SIGN PANEL REMOVAL - TYPE 3, 357.8 SQ FT
 SIGN PANEL - TYPE 3, 394.0 SQ FT
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



12.0" Radius, 2.0" Border, White on, Green;
 "SOUTH", E 2K; "WEST", E 2K; "St Louis", E Mod 2K;
 "KEEP LEFT", E 2K;

Table of widths and spaces

19.1	S	12.2	2.3	O	10.1	2.7	U	9.7	2.1	T	9.0	2.0	H	9.7										
				W	15.0	15.9	2.3	E	9.0	1.7	S	9.7	1.4	T	9.0	19.1								
31.0	55	36.0	33.4	70	36.0	25.6																		
28.2	S	13.0	3.2	t	8.3	16.0	L	11.8	2.1	o	10.9	4.9	u	10.6	6.4	3.2	4.6	s	10.6	28.2				
32.1	K	10.0	1.9	E	9.0	2.4	E	9.0	2.4	P	9.7	12.0	L	9.0	2.0	E	9.0	2.4	F	9.0	1.0	T	9.0	32.1

MODEL: Default
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 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 4,000' / in.	DRAWN - M.OBRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

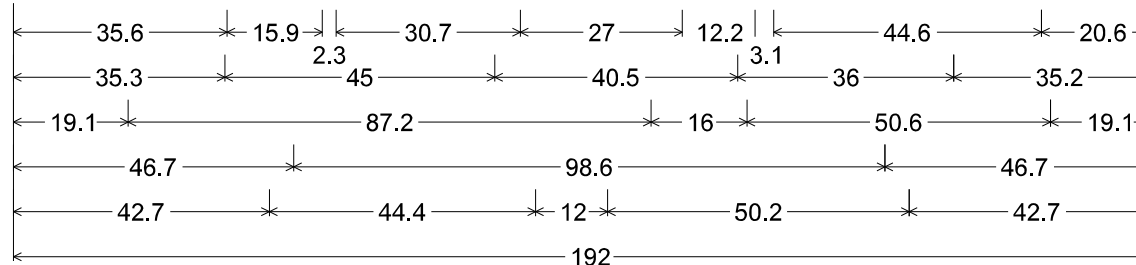
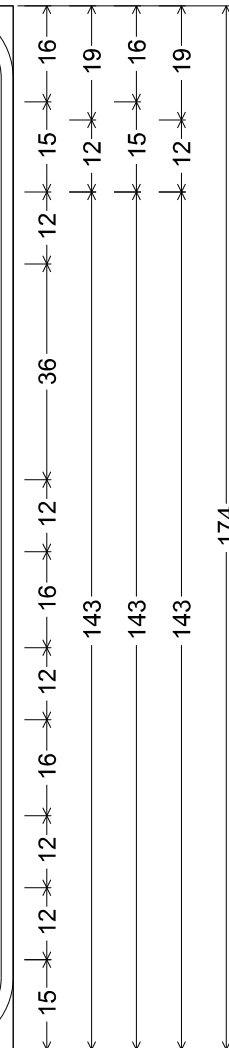
SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 2 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	134
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

EXISTING GUIDE SIGN ON STRUCTURE @ STA. 975+20 FAI-70 WEST BOUND
 PROPOSED GUIDE SIGN ON STRUCTURE @ STA. 975+20 FAI-70 WEST BOUND

NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;
 " WEST NORTH", E 2K; "Kansas City", E Mod 2K; "Chicago", E Mod 2K;
 "KEEP RIGHT", E 2K;

Table of widths and spaces

35.6	W	15.9	E	2.3	S	1.7	T	9.0	27.0	N	12.2	3.1	O	2.8	R	9.7	1.3	T	9.0	2.1	H	9.7	20.6
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35.3	45.0	40.5	36.0	35.2
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19.1	K	13.1	a	10.6	n	6.4	s	4.7	10.5	a	3.6	s	4.7	10.5	C	16.0	i	4.5	t	3.2	y	4.6	8.3	3.4	13.6	19.1
------	---	------	---	------	---	-----	---	-----	------	---	-----	---	-----	------	---	------	---	-----	---	-----	---	-----	-----	-----	------	------

46.7	C	13.0	h	10.5	i	6.4	c	5.0	10.5	a	3.6	g	5.0	10.5	o	10.9	46.7
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42.7	K	9.9	E	1.9	E	9.0	P	2.4	9.8	R	12.0	I	2.4	2.1	G	2.8	H	2.8	T	2.0	9.0	42.7
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HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184-000899

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 4.0000' / in.	DRAWN - M.OBRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SIGN PANEL DETAILS	
SCALE: N.T.S.	SHEET 3 OF 20 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	135
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQT9(213)				

STRUCTURE NO. 8S60I070L015.3

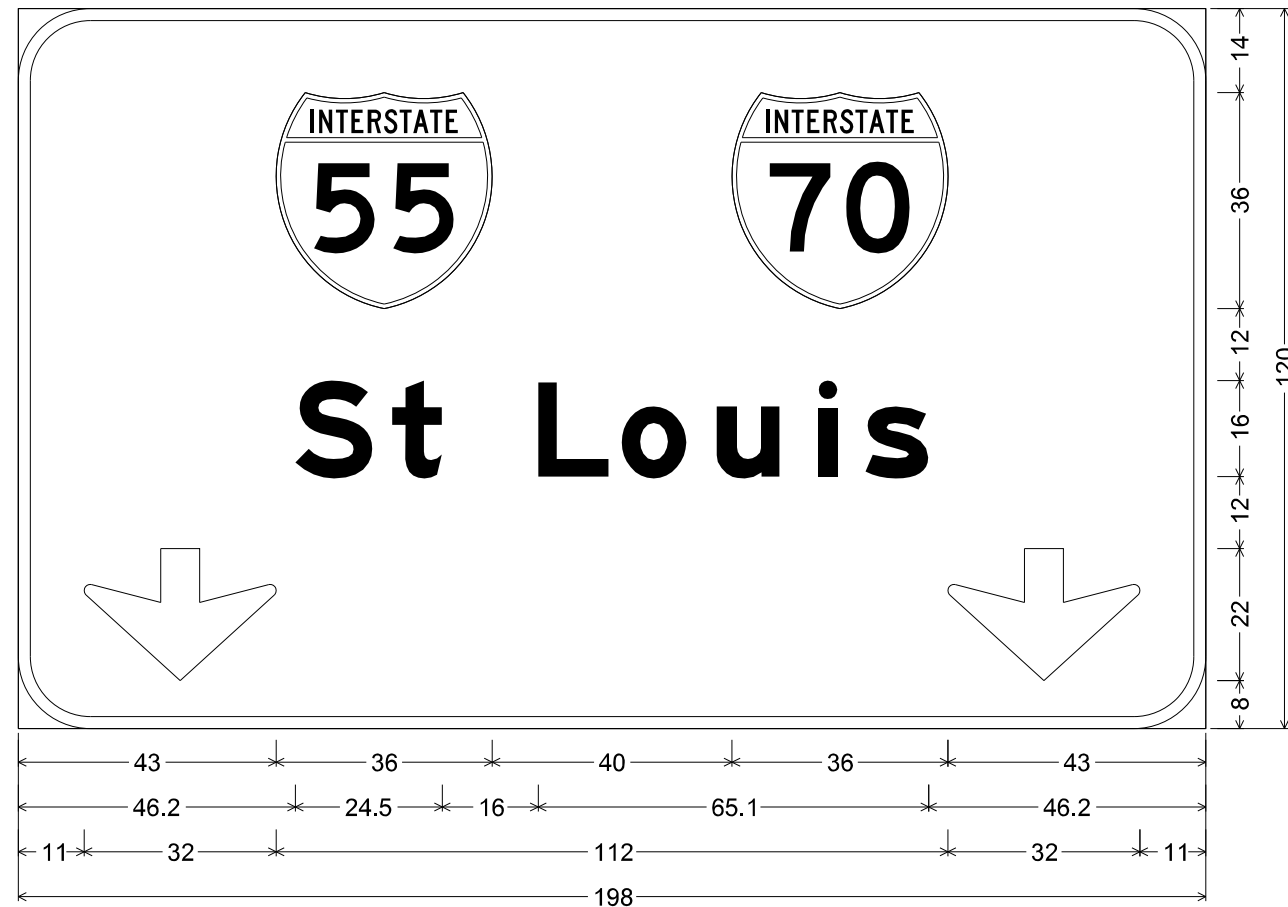
EXISTING STA. 953+52 FAI-70 WEST BOUND
EXISTING GUIDE SIGN ON STRUCTURE

PROPOSED GUIDE SIGN ON STRUCTURE
ALUMINUM SIGN SPAN TRUSS TO BE REMOVED AND
RE-ERECTED WITH NEW SUPPORTS STA 953+52 (SEE STRUCTURE PLANS)

SIGN PANEL REMOVAL - TYPE 3, 511.3 SQ FT
SIGN PANEL - TYPE 3, 511.3 SQ FT
NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



12.0" Radius, 2.0" Border, White on, Green;
"St Louis", E Mod 2K; Down Arrow 22.0" 270'; Down Arrow 22.0" 270';

Table of widths and spaces

43.0		36.0	40.0		36.0	43.0															
46.2	S	13.0	3.2	t	8.3	16.0	L	11.8	2.1	o	10.9	4.9	u	10.6	6.4	i	3.2	4.6	s	10.6	46.2
11.0		32.0	112.0		32.0	11.0															

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HMG HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
(618) 526-9611
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
	DRAWN - M.OBRIEN	REVISED -
PLOT SCALE = 4.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/17/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

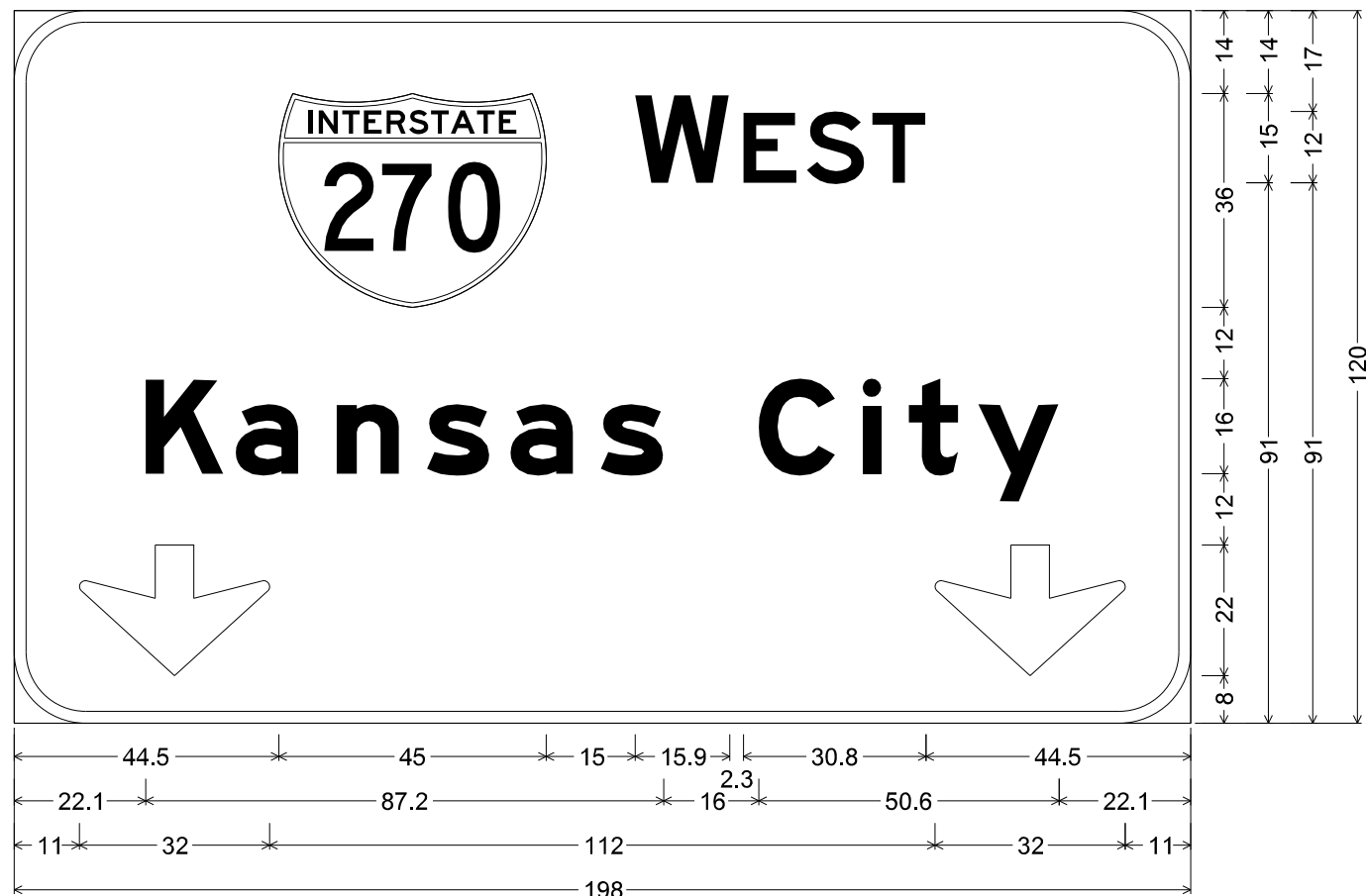
SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 4 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	136
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQT9(213)				

EXISTING GUIDE SIGN ON STRUCTURE @ STA. 953+52 FAI-70 WEST BOUND
 PROPOSED GUIDE SIGN ON STRUCTURE @ STA. 953+52 FAI-70 WEST BOUND

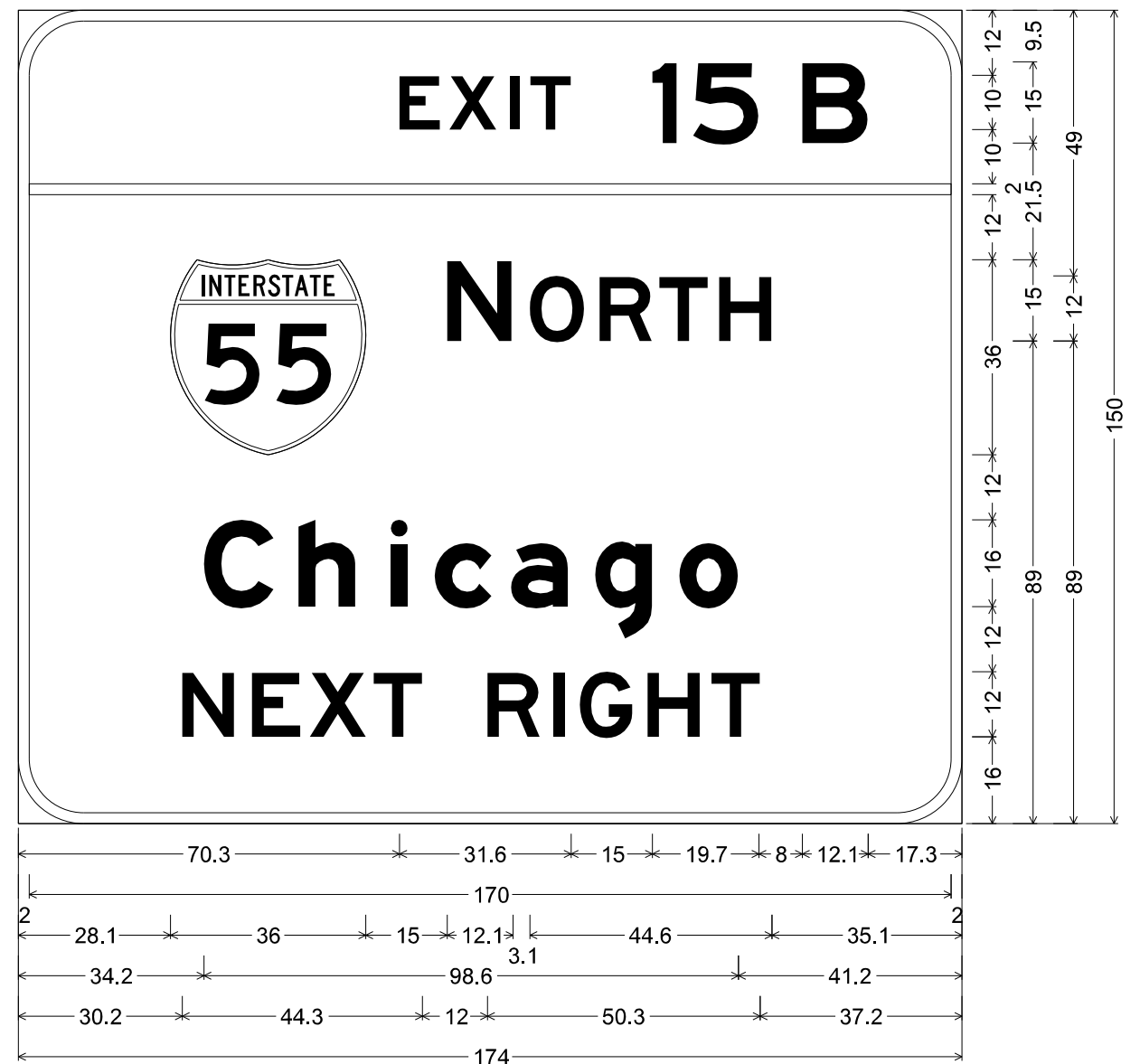
NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;
 "WEST", E 2K; "Kansas City", E Mod 2K; Down Arrow 22.0" 270'; Down Arrow 22.0" 270';

Table of widths and spaces

44.5	45.0	15.0	15.9	2.3	9.0	1.7	9.7	1.4	9.0	44.5											
22.1	13.1	2.1	10.6	6.4	10.5	4.7	10.5	3.6	10.5	4.7	10.5	16.0	13.0	4.5	3.2	4.6	8.3	3.4	13.6	22.1	
11.0	32.0	112.0	32.0	11.0																	



12.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E 2K 120% spacing; "15", E 2K; "B", E 2K; "NORTH", E 2K;
 "Chicago", E Mod 2K; "NEXT RIGHT", E 2K;

Table of widths and spaces

70.3	7.5	1.7	8.7	2.4	1.8	2.0	7.5	15.0	4.5	3.0	12.2	8.0	12.1	17.3				
2.0	170.0	2.0																
28.1	36.0	15.0	12.1	3.1	10.1	2.7	9.8	1.3	9.0	2.0	9.7	35.1						
34.2	13.0	4.5	10.5	6.4	3.2	5.0	10.5	3.6	10.5	5.0	10.5	5.0	10.9	41.2				
30.2	9.7	3.2	9.0	1.6	10.5	1.3	9.0	12.0	9.7	2.4	2.2	2.7	9.8	2.7	9.7	2.1	9.0	37.2

PHOTO COURTESY OF GOOGLE EARTH

MODEL: Default
 FILE NAME: 1017882_IDOT_DB_Van7882_01_W01_76H84_170_Resurfacing_CAD_Sheets\0876H84-Sub-Details_Sign_Panels.dgn
 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611

USER NAME = mobrien
 DESIGNED - M.OBRIEN
 DRAWN - M.OBRIEN
 PLOT SCALE = 4,0000' / in.
 CHECKED -
 PLOT DATE = 6/17/2020

REVISOR -
 REVISION -
 REVISION -
 REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

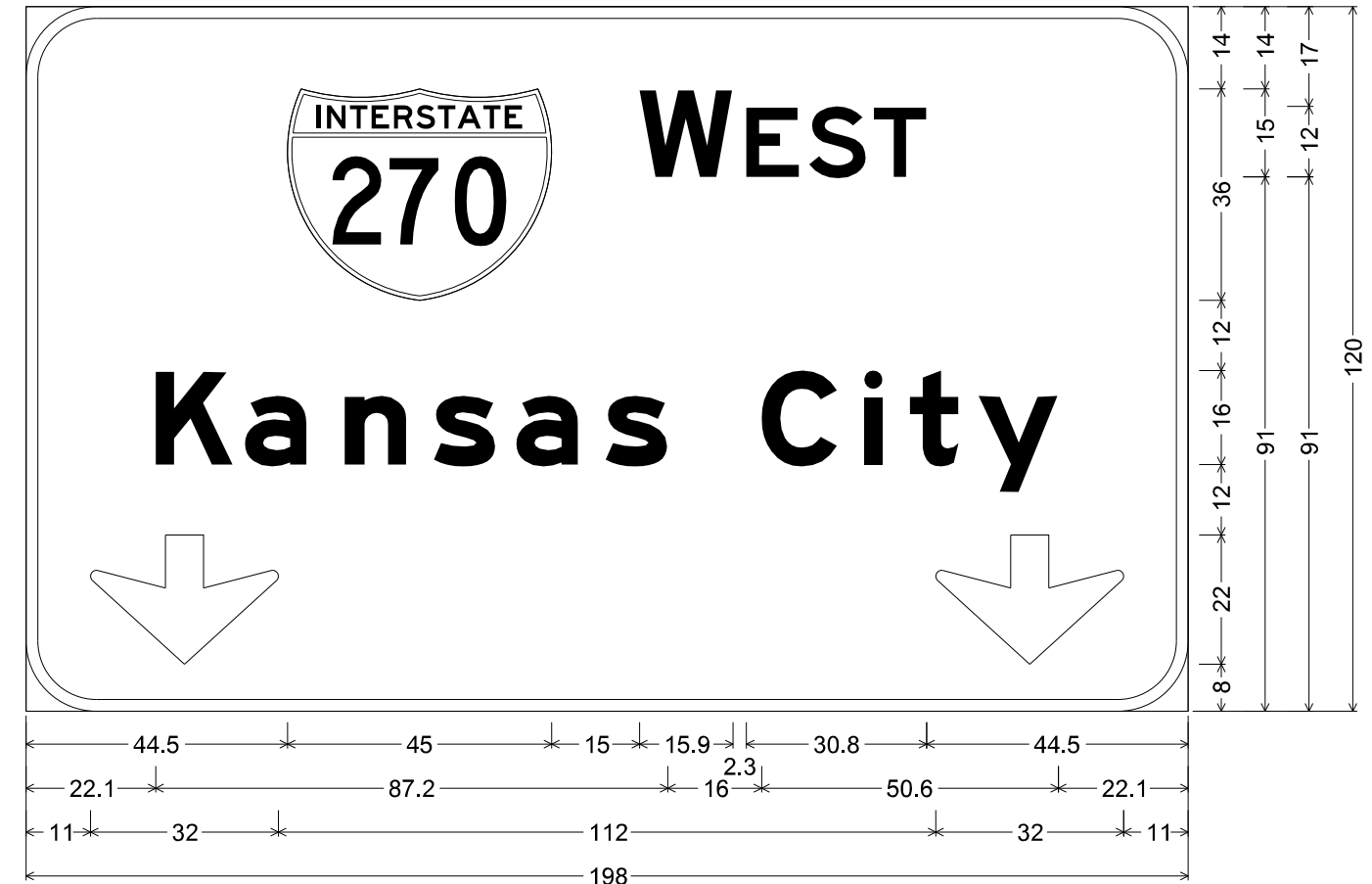
SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 5 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	137
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQT9(213)				

STA. 874+10 FAI-270 WEST BOUND
 EXISTING GUIDE SIGN ON STRUCTURE
 PROPOSED GUIDE SIGN ON STRUCTURE

SIGN PANEL REMOVAL - TYPE 3, 312.8 SQ FT
 SIGN PANEL - TYPE 3, 327.8 SQ FT
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;
 "WEST", E 2K; "Kansas City", E Mod 2K; Down Arrow 22.0" 270'; Down Arrow 22.0" 270';

Table of widths and spaces

44.5		45.0	15.0	W	15.9	2.3	E	9.0	1.7	S	9.7	1.4	T	9.0	44.5														
22.1	K	13.1	2.1	a	10.6	6.4	n	10.5	4.7	s	10.5	3.6	a	10.5	4.7	10.5	16.0	C	13.0	4.5	i	3.2	4.6	t	8.3	3.4	y	13.6	22.1
11.0		32.0	112.0		32.0	11.0																							

MODEL: Default
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 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 4,000' / in.	DRAWN - M.OBRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

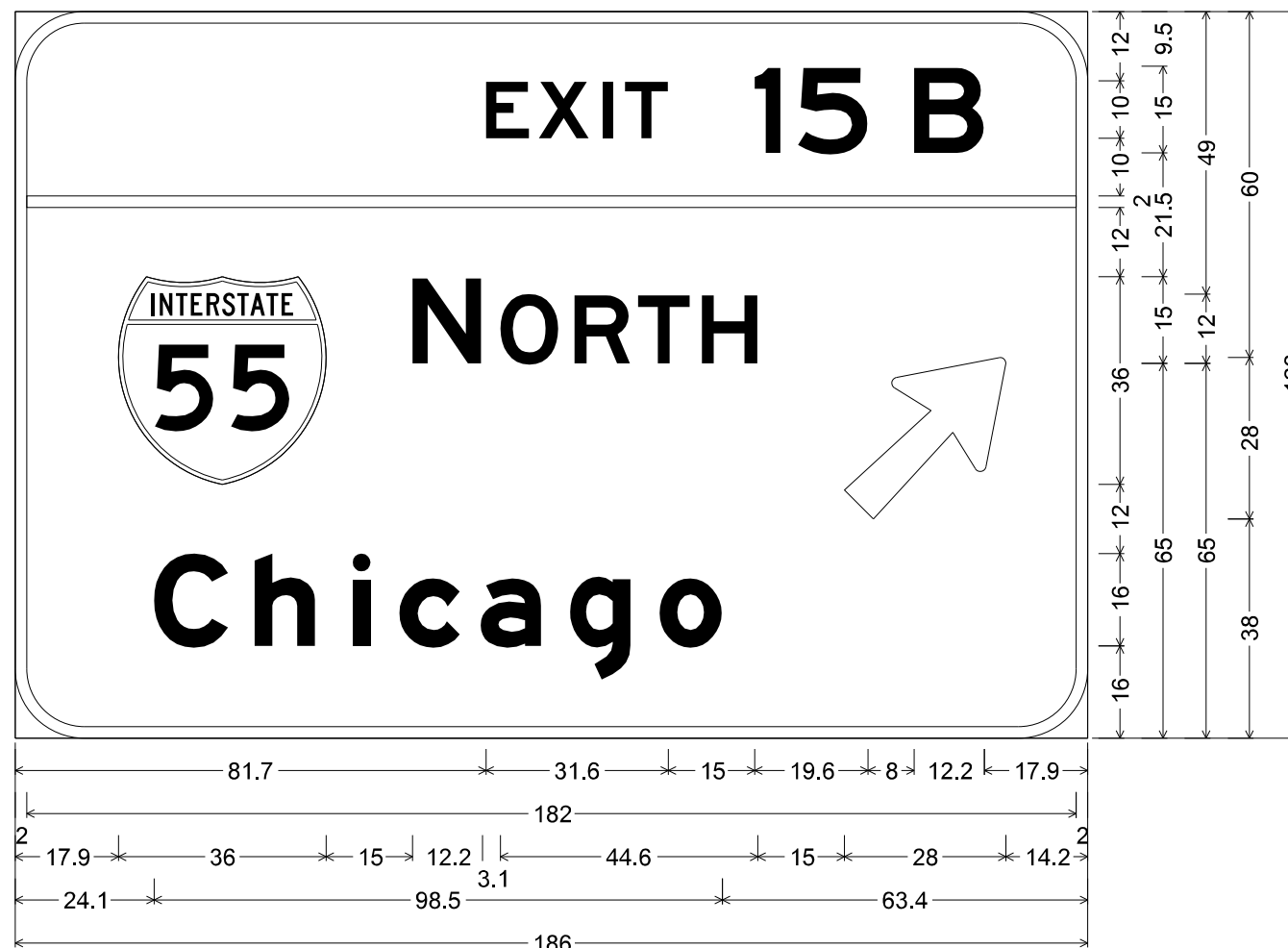
SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 6 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	138
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQT9(213)				

EXISTING GUIDE SIGN ON STRUCTURE @ STA. 874+10 FAI-270 WEST BOUND
 PROPOSED GUIDE SIGN ON STRUCTURE @ STA. 874+10 FAI-270 WEST BOUND

NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E 2K 120% spacing; "15", E 2K; "B", E 2K; "NORTH", E 2K;
 "Chicago", E Mod 2K; Arrow Custom - 35.6" 45";

Table of widths and spaces

81.7	E	X	I	T	1	5	B	17.9					
7.5	1.6	8.7	2.4	1.8	2.1	7.5	15.0	4.5	3.0	12.1	8.0	12.2	17.9
2.0	182.0	2.0											
17.9	36.0	15.0	N	O	R	T	H	28.0	14.2				
12.2	3.1	10.1	2.7	9.7	1.4	9.0	2.0	9.7	15.0	28.0	14.2		
24.1	C	h	i	c	a	g	o	63.4					
12.9	4.5	10.6	6.4	3.2	4.9	10.6	3.5	10.6	4.9	10.6	5.0	10.8	63.4

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 IL PROF. DESIGN FIRM NO. 184-000899

HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 4.0000' / in.	DRAWN - M.OBRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SIGN PANEL DETAILS			
SCALE: N.T.S.	SHEET 7	OF 20 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	139
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

STA. 902+94 FAI-70 EAST BOUND
 EXISTING GUIDE SIGN ON STRUCTURE
 PROPOSED GUIDE SIGN ON STRUCTURE

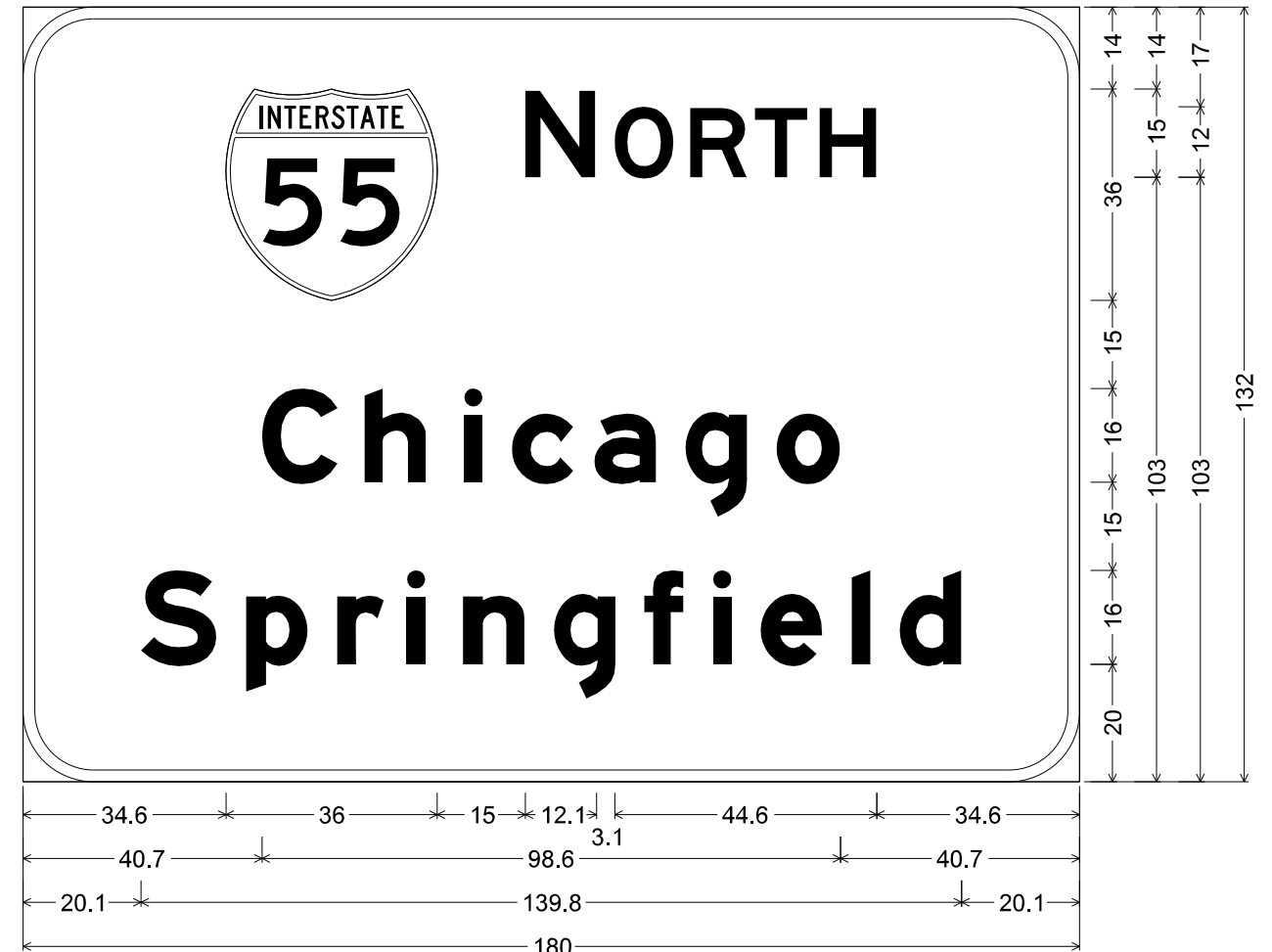
SIGN PANEL REMOVAL - TYPE 3, 590.0 SQ FT

SIGN PANEL - TYPE 3, 590.0 SQ FT

NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



12.0" Radius, 2.0" Border, White on, Green;
 "NORTH", E 2K; "Chicago", E Mod 2K; "Springfield", E Mod 2K;

Table of widths and spaces

34.6	36.0	15.0	N	12.1	3.1	O	10.1	2.7	R	9.8	1.3	T	9.0	2.0	H	9.7	34.6																
40.7	C	13.0	4.5	h	10.5	6.4	i	3.2	5.0	c	10.5	3.6	a	10.5	5.0	g	10.5	5.0	o	10.9	40.7												
20.1	S	12.9	5.0	p	10.6	4.9	r	8.0	3.9	i	3.2	6.4	n	10.5	5.0	g	10.5	4.8	f	6.8	4.9	i	3.2	5.0	e	10.5	5.0	l	3.2	5.0	d	10.5	20.1

MODEL: Default
 FILE NAME: I:\2022\DOT_DB_Van7882_01_W01_761884_170_Resurfacing_CAD_Sheets\08761884-sht-codetail_sgn_p3neth.dgn
 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 4.0000' / in.	DRAWN - M.OBRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

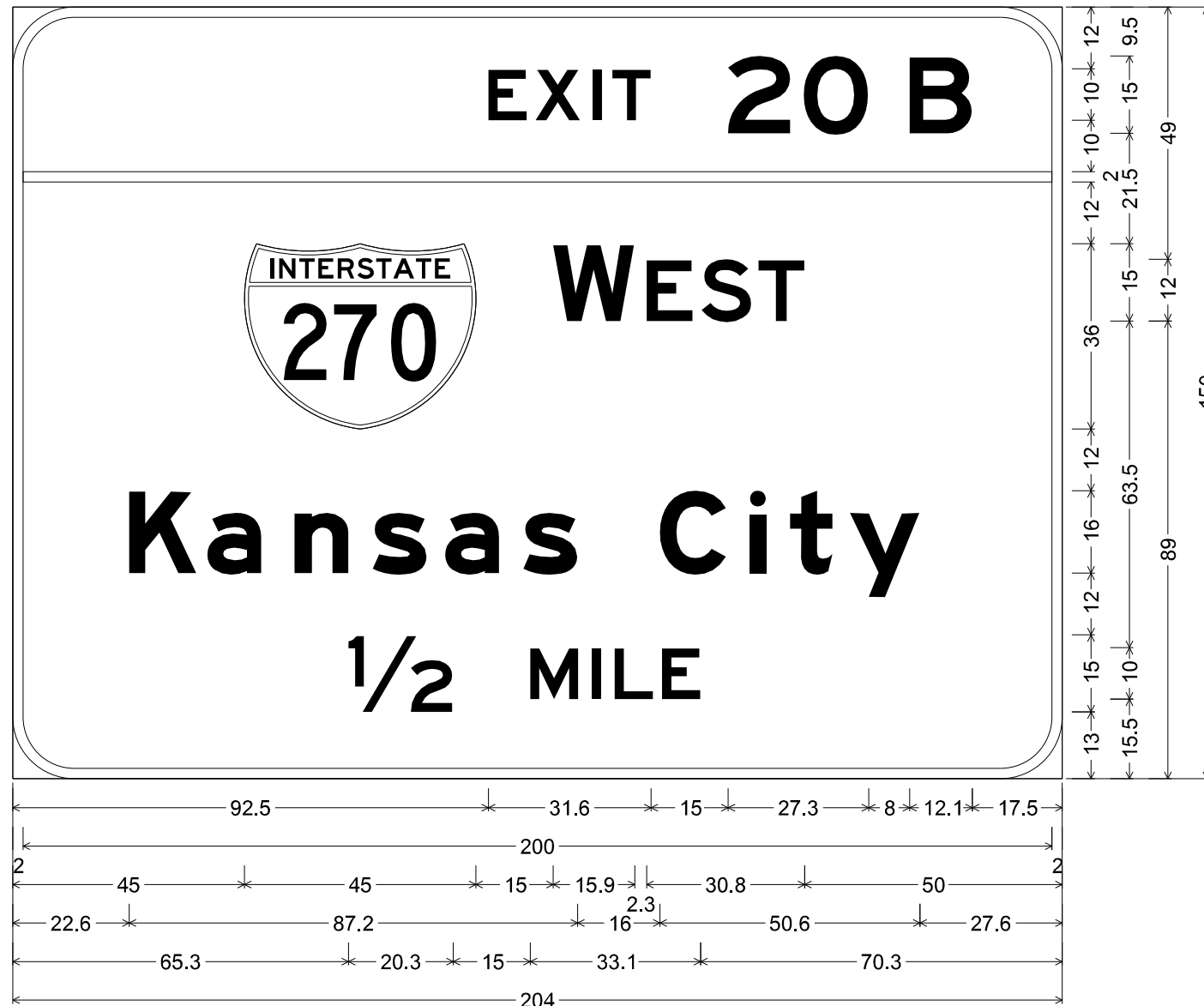
SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 8 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	140
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQT9(213)				

EXISTING GUIDE SIGN ON STRUCTURE @ STA. 902+94 FAI-70 EAST BOUND
 PROPOSED GUIDE SIGN ON STRUCTURE @ STA. 902+94 FAI-70 EAST BOUND

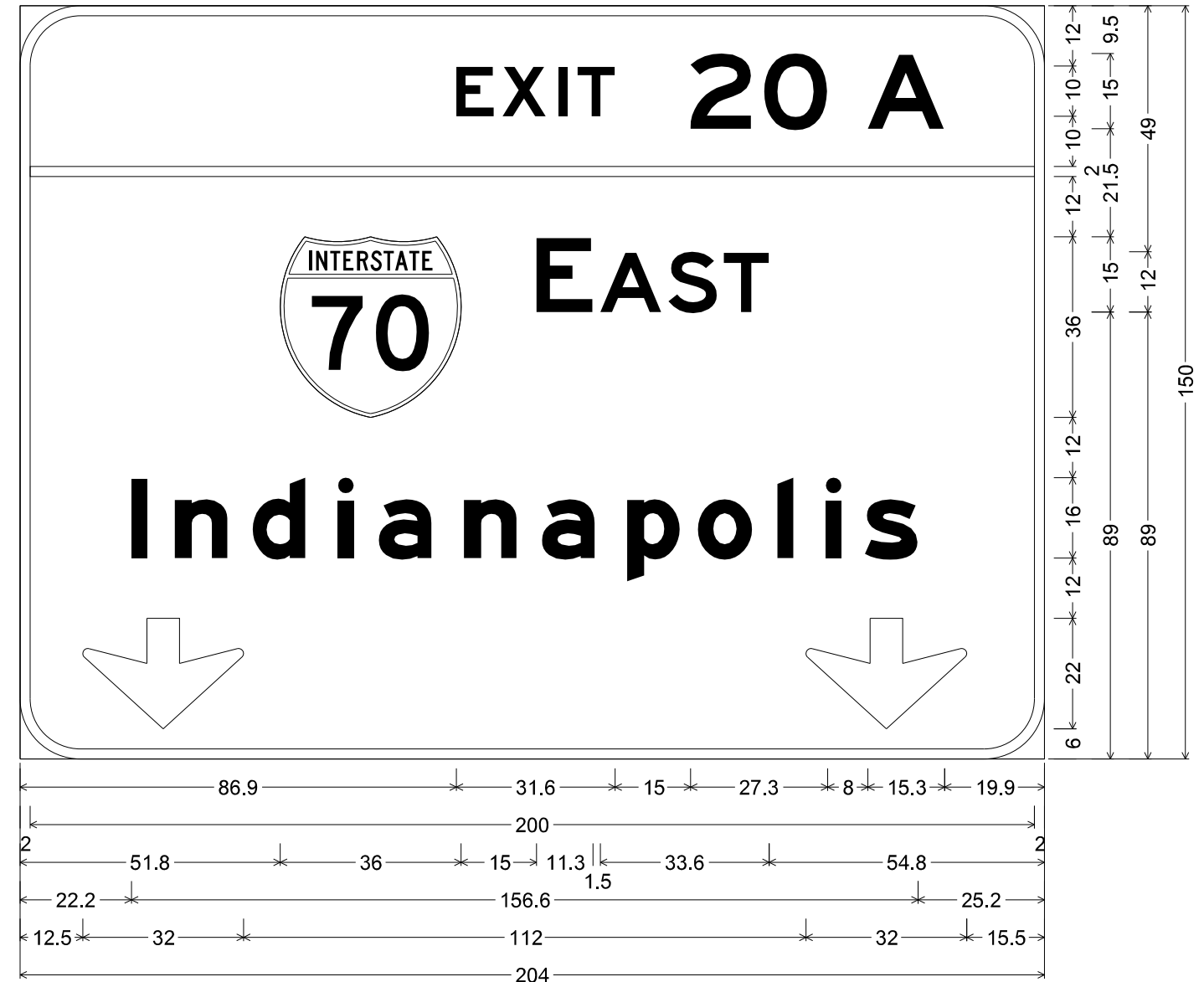
NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E 2K 120% spacing; "20", E 2K; "B", E 2K; "WEST", E 2K;
 "Kansas City", E Mod 2K; "1/2 MILE", E 2K;

Table of widths and spaces

92.5	E	7.5	X	1.6	8.7	I	1.8	T	2.1	2	15.0	O	12.6	B	12.1	17.5						
2.0	200.0		2.0																			
45.0	270	45.0	15.0	W	15.9	E	2.3	S	1.7	T	1.4	50.0										
22.6	K	13.1	a	2.1	10.6	n	6.4	s	10.5	a	3.6	s	10.5	C	13.0	i	3.2	t	4.6	y	13.6	27.6
65.3	1/2	20.3	M	15.0	9.4	I	2.6	L	1.8	7.5	E	1.7	7.5	70.3								



12.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E 2K 120% spacing; "20", E 2K; "A", E 2K; "EAST", E 2K;
 "Indianapolis", E Mod 2K; Down Arrow 22.0" 270"; Down Arrow 22.0" 270";

Table of widths and spaces

86.9	E	7.5	X	1.7	8.7	I	1.8	T	2.0	2	15.0	O	12.6	A	15.3	19.9								
2.0	200.0		2.0																					
51.8	270	36.0	15.0	E	11.3	A	1.5	S	1.3	T	1.4	54.8												
22.2	I	3.2	n	5.4	d	10.6	i	6.4	a	3.2	n	10.6	a	p	3.5	o	10.9	l	3.2	i	3.2	s	10.5	25.2
12.5	22.0	32.0	112.0	32.0	15.5																			

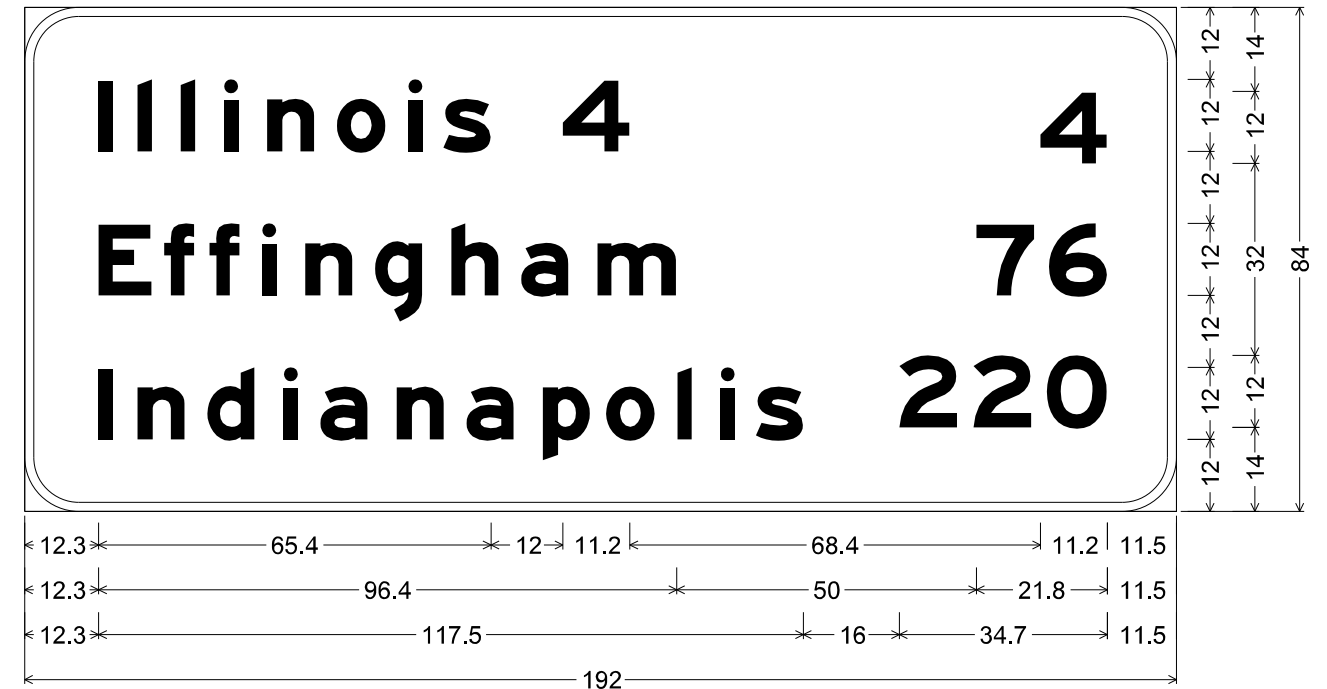
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 IL PROF. DESIGN FIRM NO. 184.000899

STA. 1006+06 FAI-70 EAST BOUND
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - TYPE 3, 112.0 SQ FT
 SIGN PANEL - TYPE 3, 112.0 SQ FT
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



9.0" Radius, 1.5" Border, White on, Green;
 "Illinois 4", E Mod 2K; "Effingham ", E Mod 2K; "Indianapolis ", E Mod 2K;
 "4", E Mod 2K; "76", E Mod 2K; "220", E Mod 2K;

Table of widths and spaces

12.3	I	2.4	4.1	I	2.4	4.8	I	2.4	4.8	i	2.4	4.8	n	7.9	3.8	o	8.1	3.7	i	2.4	3.5	s	7.9	12.0	4	11.2	68.4	4	11.2	11.5					
12.3	E	8.9	2.1	f	5.0	2.5	f	5.1	3.7	i	2.4	4.8	n	7.9	3.7	g	7.9	4.8	h	8.0	3.7	a	7.9	4.8	m	13.2									
50.0	7	9.7	2.4	6	9.7	11.5																													
12.3	I	2.4	4.1	n	7.9	3.8	d	7.9	4.8	i	2.4	3.7	a	7.9	4.8	n	7.9	3.8	a	7.9	4.8	p	7.9	2.6	o	8.2	3.7	I	2.4	4.8	i	2.4	3.5	s	7.9
16.0	2	9.7	2.7	2	9.7	2.5	0	10.1	11.5																										

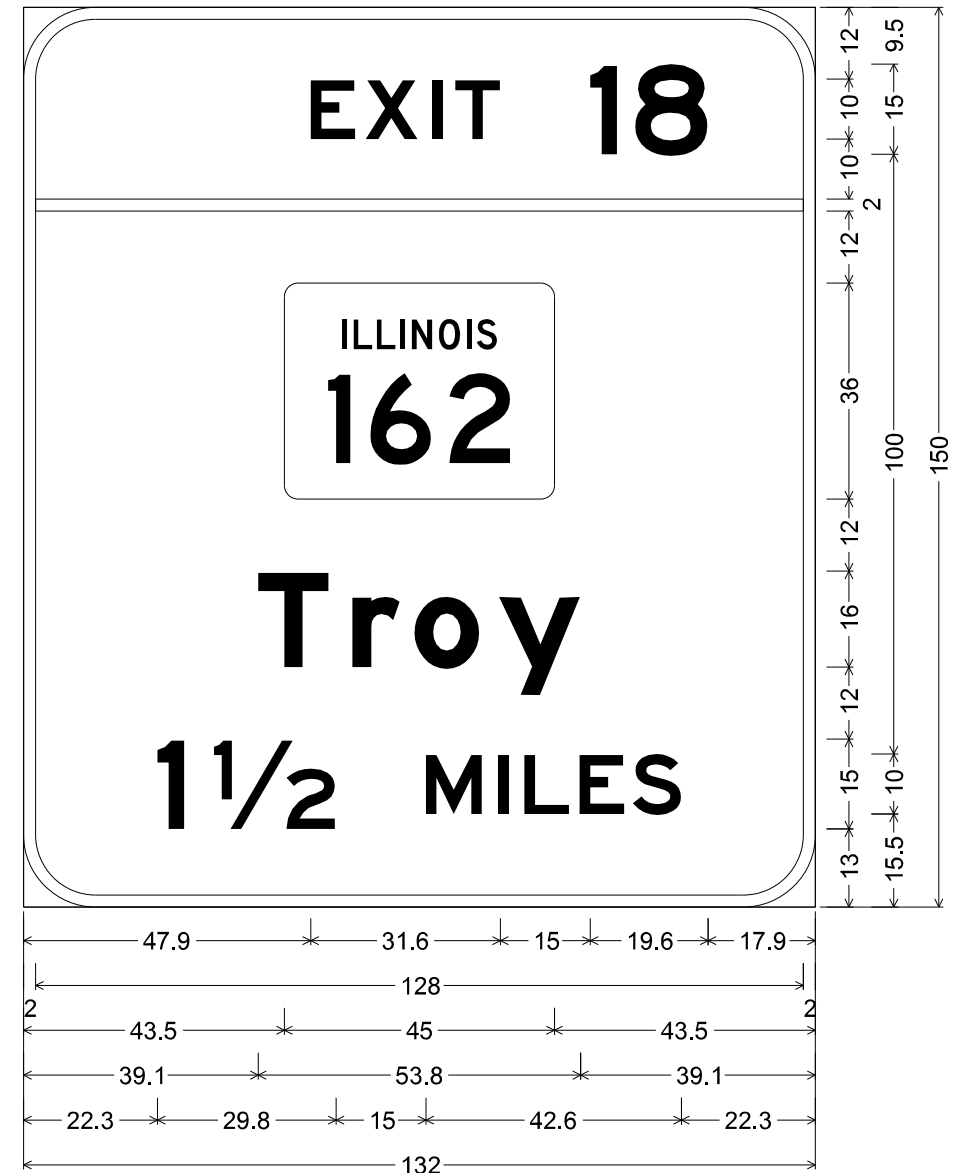
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 IL PROF. DESIGN FIRM NO. 184.000899

STA. 1268+66 FAI-55 SOUTH BOUND
 EXISTING GUIDE SIGN ON STRUCTURE
 PROPOSED GUIDE SIGN ON STRUCTURE

SIGN PANEL REMOVAL - TYPE 3, 538.0 SQ FT
 SIGN PANEL - TYPE 3, 538.0 SQ FT
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



12.0" Radius, 2.0" Border, White on, Green;
 " EXIT", E 2K 120% spacing; "18", E 2K;
 "Troy", E Mod 2K; "1 1/2 MILES", E 2K;

Table of widths and spaces

47.9	E	7.5	X	1.6	8.7	I	2.4	1.8	T	2.1	7.5	15.0	1	4.5	3.0	B	12.1	17.9			
2.0	128.0		2.0																		
43.5	162		43.5																		
39.1	T	11.9	3.8	r	8.0	2.4	o	10.9	3.2	y	13.6	39.1									
22.3	1	4.5	5.0	1/2	20.3	15.0	M	9.4	2.6	I	1.8	2.6	L	7.5	1.7	E	7.5	1.4	S	8.1	22.3

MODEL: Default
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 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
	DRAWN - M.OBRIEN	REVISED -
PLOT SCALE = 4.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/17/2020	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

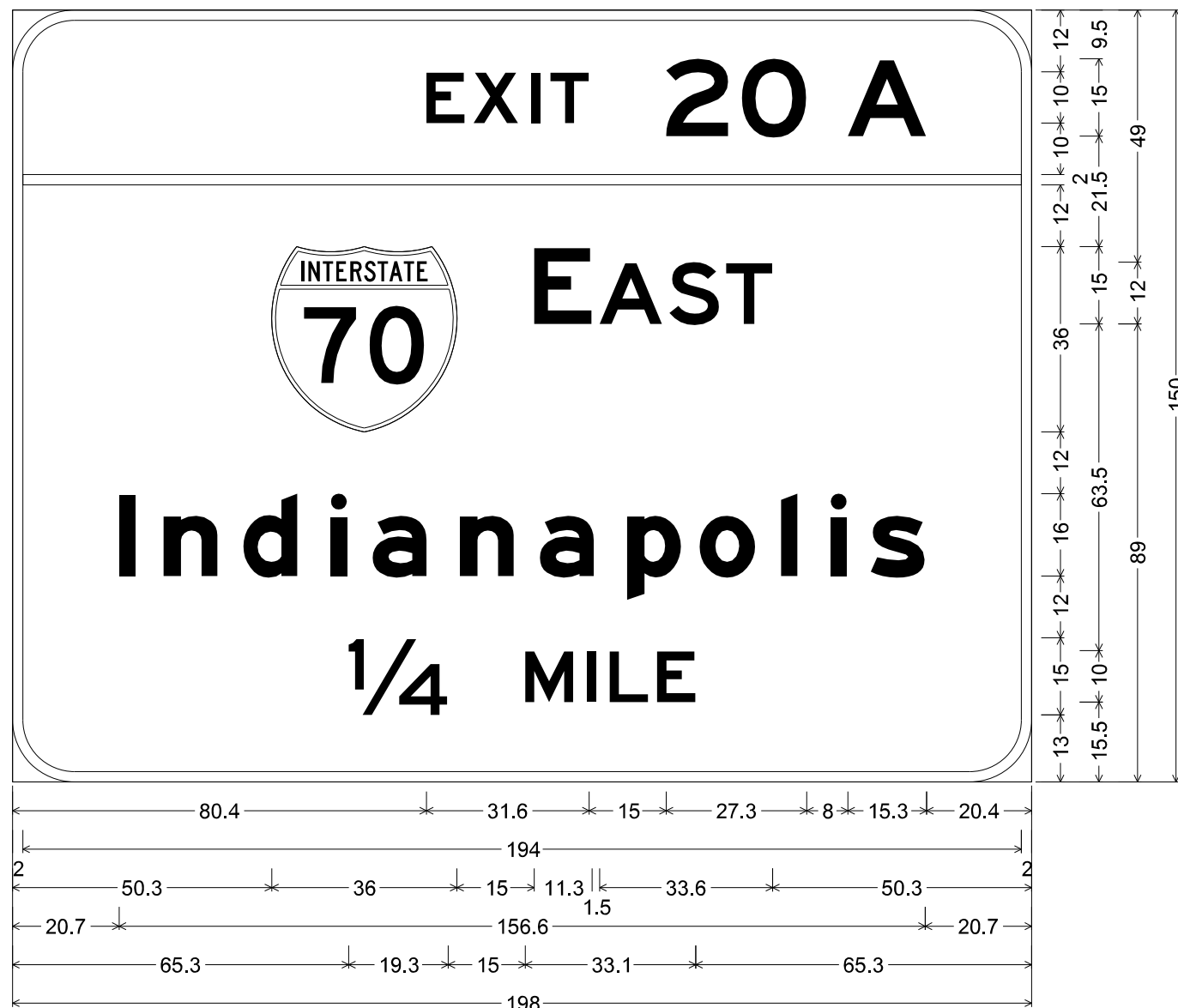
SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 11 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	143
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT			NHPP-YQT9(213)	

EXISTING GUIDE SIGN ON STRUCTURE @ STA.1268+66 FAI-55 SOUTH BOUND
 PROPOSED GUIDE SIGN ON STRUCTURE @ STA.1268+66 FAI-55 SOUTH BOUND

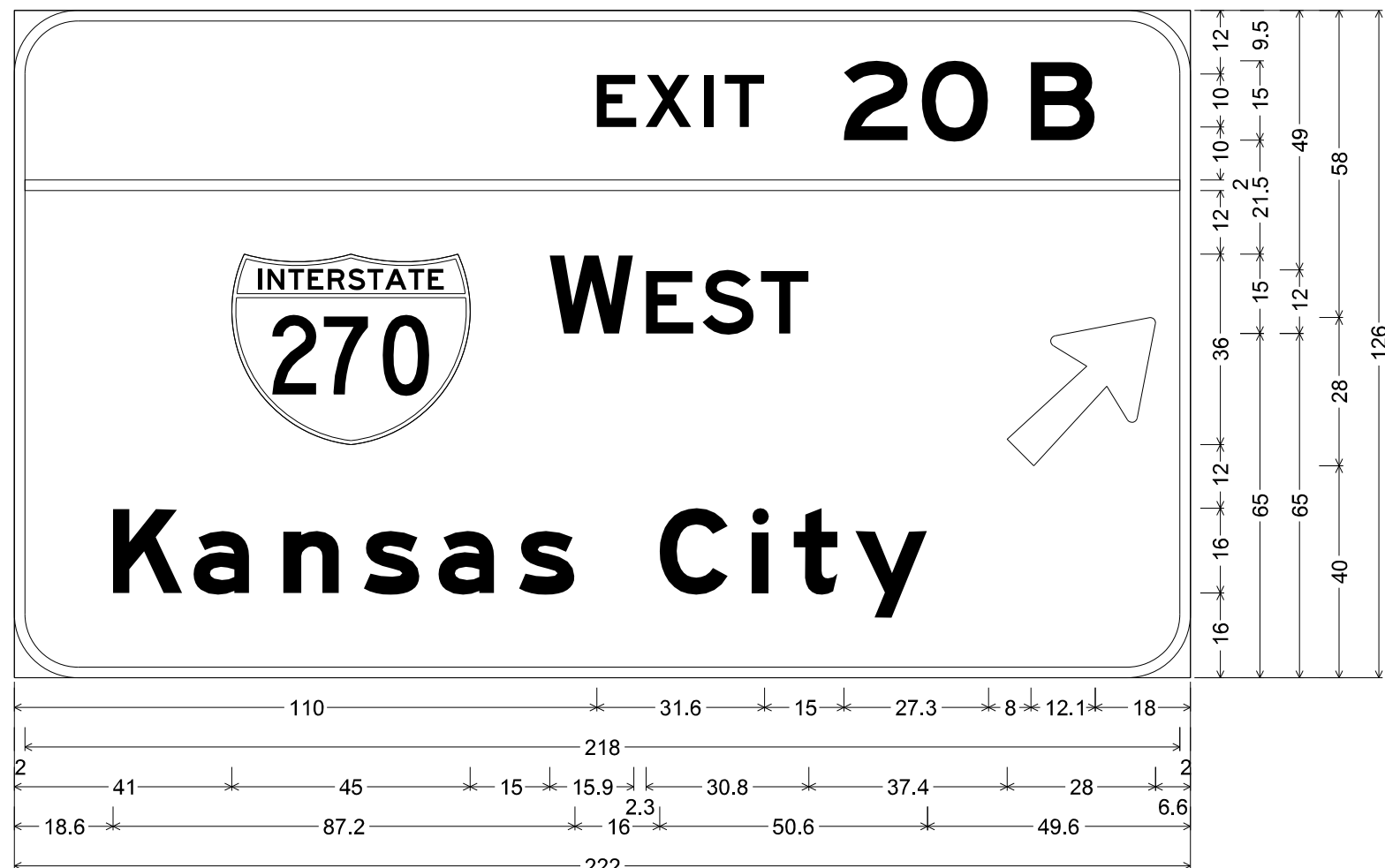
NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E 2K 120% spacing; "20", E 2K; "A", E 2K; "EAST", E 2K;
 "Indianapolis", E Mod 2K; "1/4 MILE", E 2K;

Table of widths and spaces

80.4	E	7.5	1.7	X	8.7	2.4	I	1.8	2.0	T	7.5	15.0	Z	12.2	2.5	O	12.6	8.0	A	15.3	20.4															
2.0	194.0																					2.0														
50.3	70	36.0	15.0	E	11.3	1.5	A	12.2	1.3	S	9.7	1.4	T	9.0	50.3																					
20.7	I	3.2	5.4	n	10.6	4.9	d	10.6	6.4	i	3.2	5.0	a	10.5	6.4	n	10.6	4.9	a	10.6	6.4	p	10.6	3.5	o	10.9	4.9	l	3.2	6.4	i	3.2	4.7	s	10.5	20.7
65.3	1/4	19.3	15.0	M	9.4	2.6	I	1.8	2.6	L	7.5	1.7	E	7.5	65.3																					



12.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E 2K 120% spacing; "20", E 2K; "B", E 2K; "WEST", E 2K; "Kansas City", E Mod 2K;
 Arrow Custom - 35.6" 45';

Table of widths and spaces

110.0	E	7.5	1.6	X	8.7	2.4	I	1.8	2.1	T	7.5	15.0	Z	12.1	2.6	O	12.6	8.0	B	12.1	18.0									
2.0	218.0																					2.0								
41.0	270	45.0	15.0	W	15.9	2.3	E	9.0	1.7	S	9.7	1.4	T	9.0	37.4	28.0	6.6													
18.6	K	13.1	2.1	a	10.6	6.4	n	10.5	4.7	s	10.5	3.6	a	10.5	4.7	s	10.5	16.0	C	13.0	4.5	i	3.2	4.6	t	8.3	3.4	y	13.6	49.6

MODEL: Default
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 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611

USER NAME = mobrien
 DESIGNED - M.OBRIEN
 DRAWN - M.OBRIEN
 CHECKED -
 DATE -
 PLOT SCALE = 4,000' / in.
 PLOT DATE = 6/17/2020

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 12 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	144
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQT9(213)				

STRUCTURE NO. 8C060I055R019.4

EXISTING STA.1281+00 FAI-55 NORTH BOUND
EXISTING GUIDE SIGN ON STRUCTURE

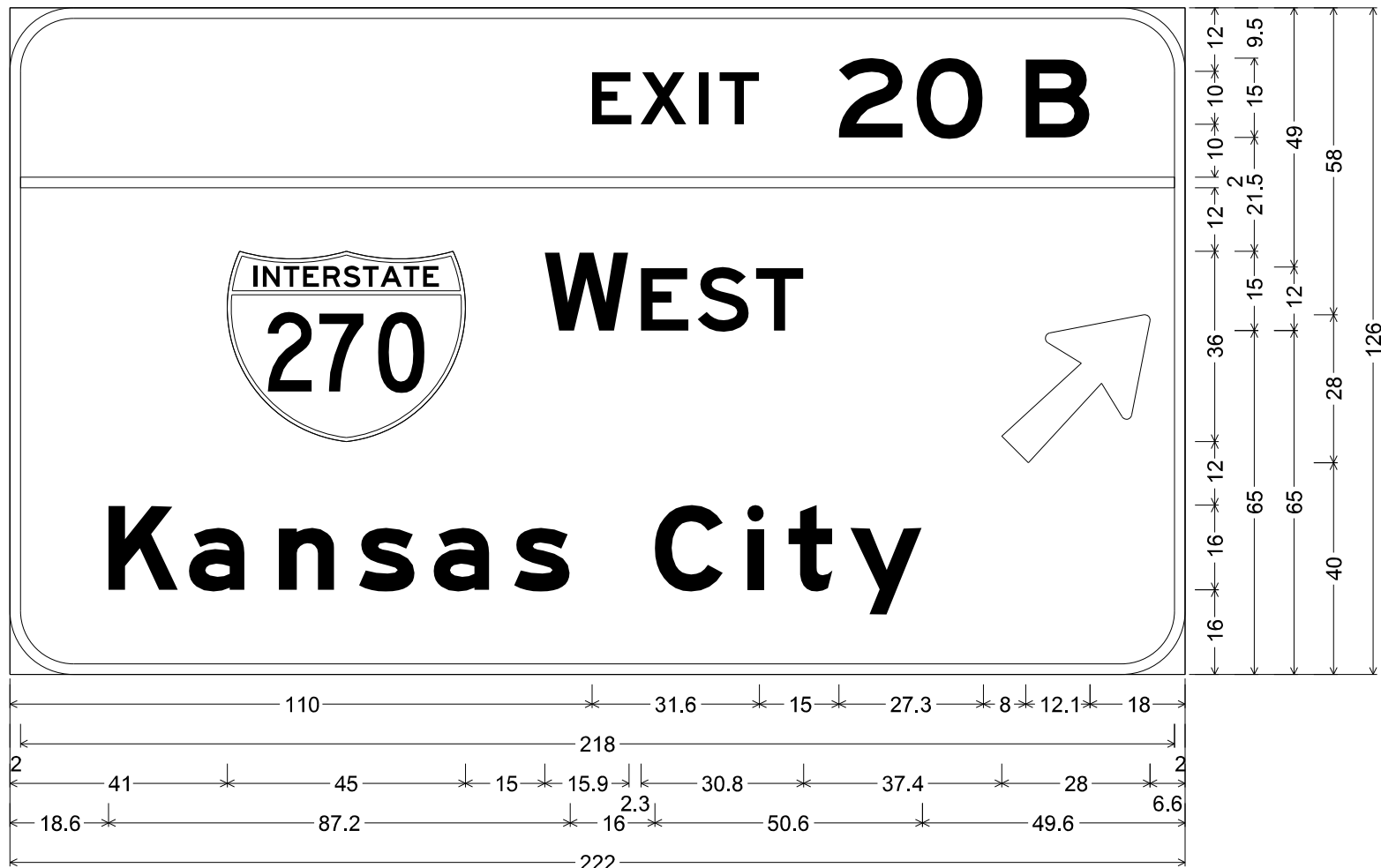
PROPOSED GUIDE SIGN ON STRUCTURE
CANTILEVER SIGN STRUCTURE TO BE REMOVED AND REPLACED STA 1281+27
(SEE STRUCTURE PLAN)

SIGN PANEL REMOVAL - TYPE 3, 194.3 SQ FT
SIGN PANEL - TYPE 3, 194.3 SQ FT

NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



12.0" Radius, 2.0" Border, White on, Green;
" EXIT", E 2K 120% spacing; "20", E 2K; "B", E 2K; "WEST", E 2K; "Kansas City", E Mod 2K;
Arrow Custom - 35.6" 45';

Table of widths and spaces

	E	X	I	T	2	O	B							
110.0	7.5	1.6	8.7	2.4	1.8	2.1	7.5	15.0	12.1	2.6	12.6	8.0	12.1	18.0

2.0	218.0	2.0
-----	-------	-----

	W	E	S	T	↗							
41.0	45.0	15.0	15.9	2.3	9.0	1.7	9.7	1.4	9.0	37.4	28.0	6.6

	K	a	n	s	a	s	C	i	t	y										
18.6	13.1	2.1	10.6	6.4	10.5	4.7	10.5	3.6	10.5	4.7	10.5	16.0	13.0	4.5	3.2	4.6	8.3	3.4	13.6	49.6

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HMG HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
(618) 526-9611
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 4,0000' / in.	DRAWN - M.OBRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 13 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	145
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

STRUCTURE NO. 8C600I055L019.5

EXISTING STA. 1277+88 FAI-55 SOUTH BOUND
EXISTING GUIDE SIGN ON STRUCTURE

PROPOSED GUIDE SIGN ON STRUCTURE
CANTILEVER SIGN STRUCTURE TO BE REMOVED AND REPLACED STA 1277+70
(SEE STRUCTURE PLAN)

SIGN PANEL REMOVAL - TYPE 3, 199.5 SQ FT

SIGN PANEL - TYPE 3, 199.5 SQ FT

NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS

STRUCTURE NO. 8C600I055R018.7

EXISTING STA. 1321+92 FAI-55 NORTH BOUND
EXISTING GUIDE SIGN ON STRUCTURE

PROPOSED GUIDE SIGN ON STRUCTURE
PROPOSED "EXIT ONLY" SIGN ON STRUCTURE
CANTILEVER SIGN STRUCTURE TO BE REMOVED AND REPLACED STA 1321+69
(SEE STRUCTURE PLAN)

SIGN PANEL REMOVAL - TYPE 3, 256.5 SQ FT

SIGN PANEL - TYPE 3, 256.5 SQ FT

NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN & YELLOW SIGN PANELS

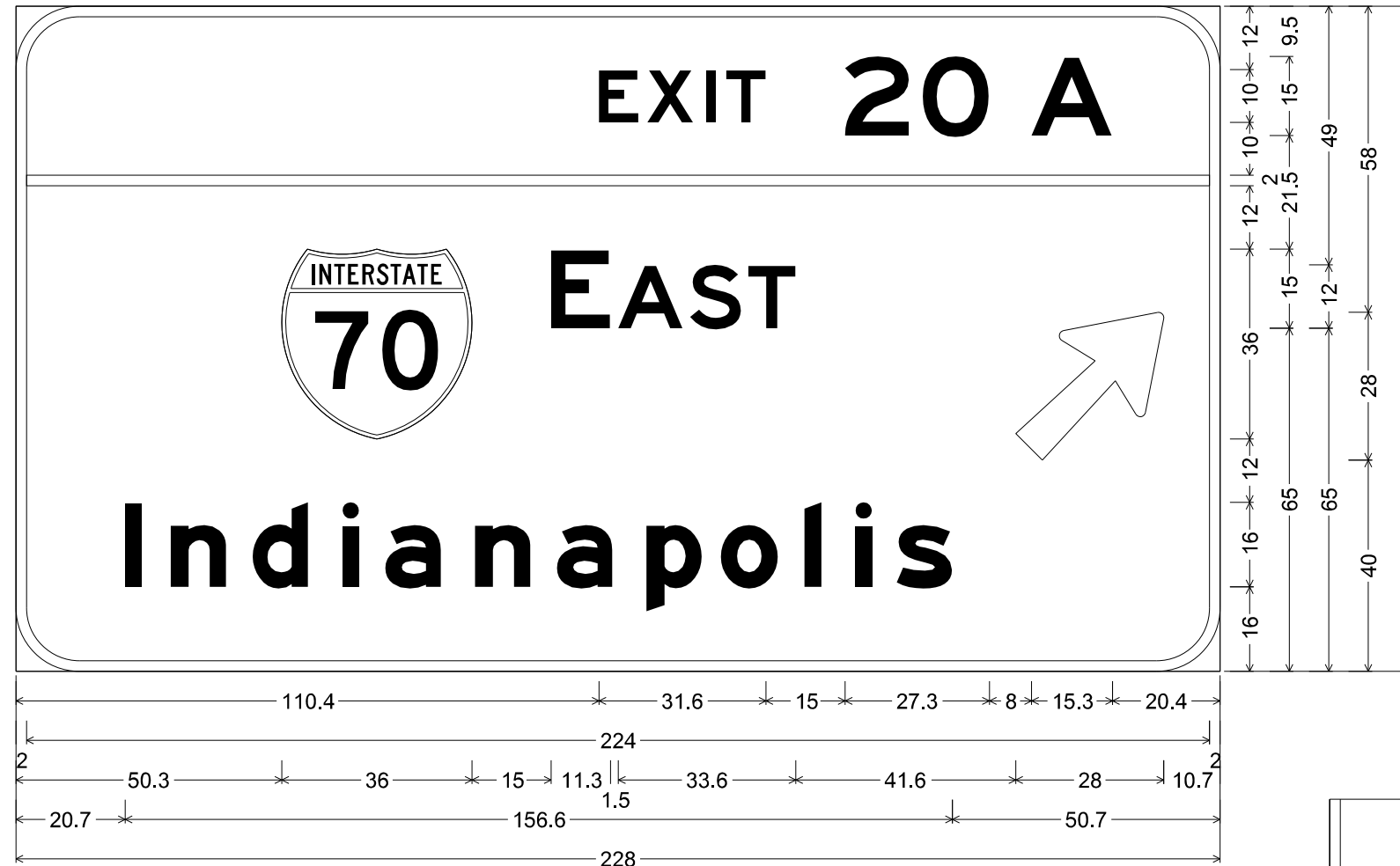


PHOTO COURTESY OF GOOGLE EARTH



12.0" Radius, 2.0" Border, White on, Green;
" EXIT", E 2K 120% spacing; "20", E 2K; "A", E 2K; "EAST", E 2K; "Indianapolis", E Mod 2K;
Arrow Custom - 35.6" 45';
Table of widths and spaces

110.4	E	X	I	T	2	O	A	20.4					
7.5	1.7	8.7	2.4	1.8	2.0	7.5	15.0	12.2	2.5	12.6	8.0	15.3	20.4

2.0	224.0	2.0
-----	-------	-----

50.3	36.0	15.0	E	A	S	T	28.0	10.7															
3.2	5.4	10.6	4.9	10.6	6.4	3.2	5.0	10.5	6.4	10.6	4.9	10.6	6.4	10.6	3.5	10.9	4.9	3.2	6.4	3.2	4.7	10.5	50.7

6.0" Radius, 2.0" Border, Black on, Yellow;

"EXIT ONLY", E Mod 2K;

Table of widths and spaces

65.6	E	X	I	T	O	N	L	Y	65.6						
8.9	1.7	10.4	2.6	2.4	2.1	8.9	12.0	10.1	2.9	9.7	3.3	8.9	0.7	12.2	65.6

MODEL: Default
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 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
(618) 526-9611

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 4.0000' / in.	DRAWN - M.OBRIEN	REVISED -
DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 14 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	146
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQT9(213)				

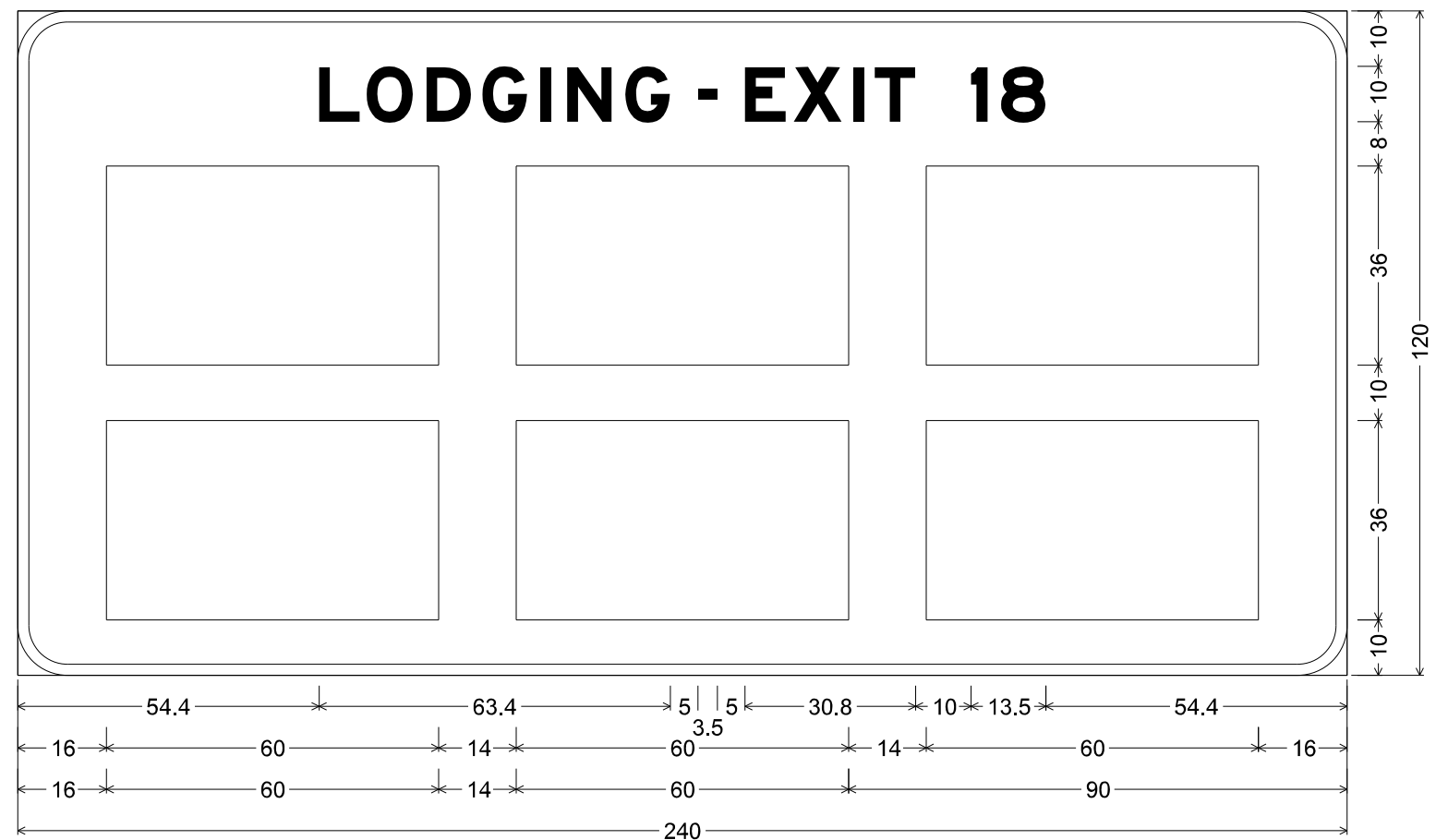
STA. 1289+78 FAI-55 SOUTH BOUND
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - TYPE 3, 200.0 SQ FT
 SIGN PANEL - TYPE 3, 200.0 SQ FT

NOTE: TYPE AP SHEETING SHALL BE USED FOR ALL BLUE SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



9.0" Radius, 2.0" Border, White on, Blue;

"LODGING - EXIT 18", E Mod 2K;

Table of letter and object lefts

L	O	D	G	I	N	G	-	E	X	I	T	I	8
54.4	63.0	73.8	83.9	94.4	99.2	109.7	122.8	131.3	140.1	150.9	154.7	172.1	177.5
16.0	90.0	164.0											
16.0	90.0	164.0											

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 IL PROF. DESIGN FIRM NO. 184.000899

HMG
 HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611

USER NAME = mobrien
 PLOT SCALE = 4.0000' / in.
 PLOT DATE = 6/17/2020

DESIGNED - M.OBRIEN
 DRAWN - M.OBRIEN
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 15 OF 20 SHEETS STA. TO STA.

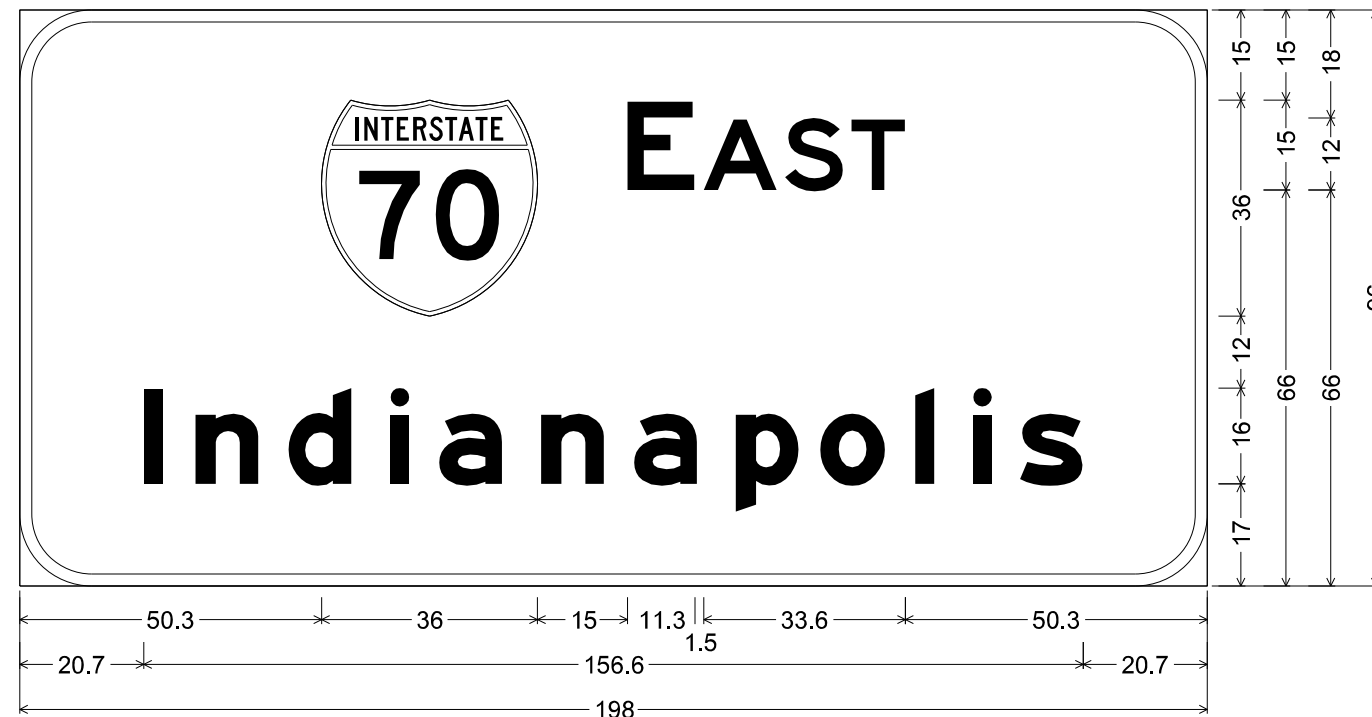
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	147
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQT9(213)				

STA. 842+00 FAI-270 EAST BOUND
 EXISTING GUIDE SIGN ON STRUCTURE
 PROPOSED GUIDE SIGN ON STRUCTURE

SIGN PANEL REMOVAL - TYPE 3, 294.8 SQ FT
 SIGN PANEL - TYPE 3, 294.8 SQ FT
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



12.0" Radius, 2.0" Border, White on, Green;
 "EAST", E 2K; "Indianapolis", E Mod 2K;

Table of widths and spaces

50.3		36.0	15.0	E	11.3	1.5	A	12.2	1.3	S	9.7	1.4	T	9.0	50.3																					
20.7	I	3.2	5.4	n	10.6	4.9	d	10.6	6.4	i	3.2	5.0	a	10.5	6.4	n	10.6	4.9	a	10.6	6.4	p	10.6	3.5	o	10.9	4.9	l	3.2	6.4	i	3.2	4.7	s	10.5	20.7

MODEL: Default
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 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 4.0000' / in.	DRAWN - M.OBRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 16 OF 20 SHEETS STA. TO STA.

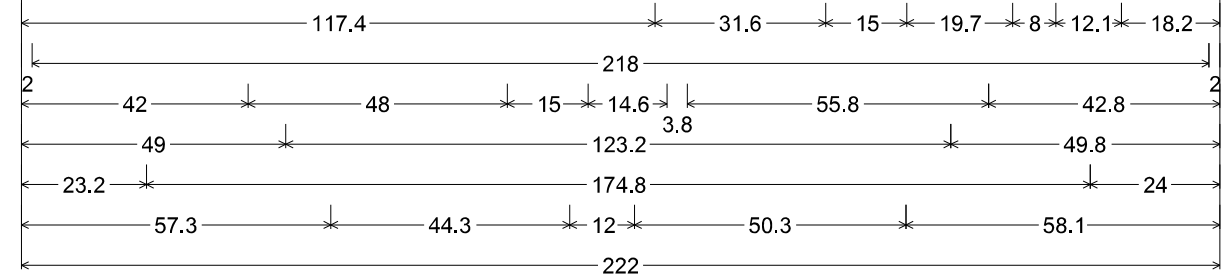
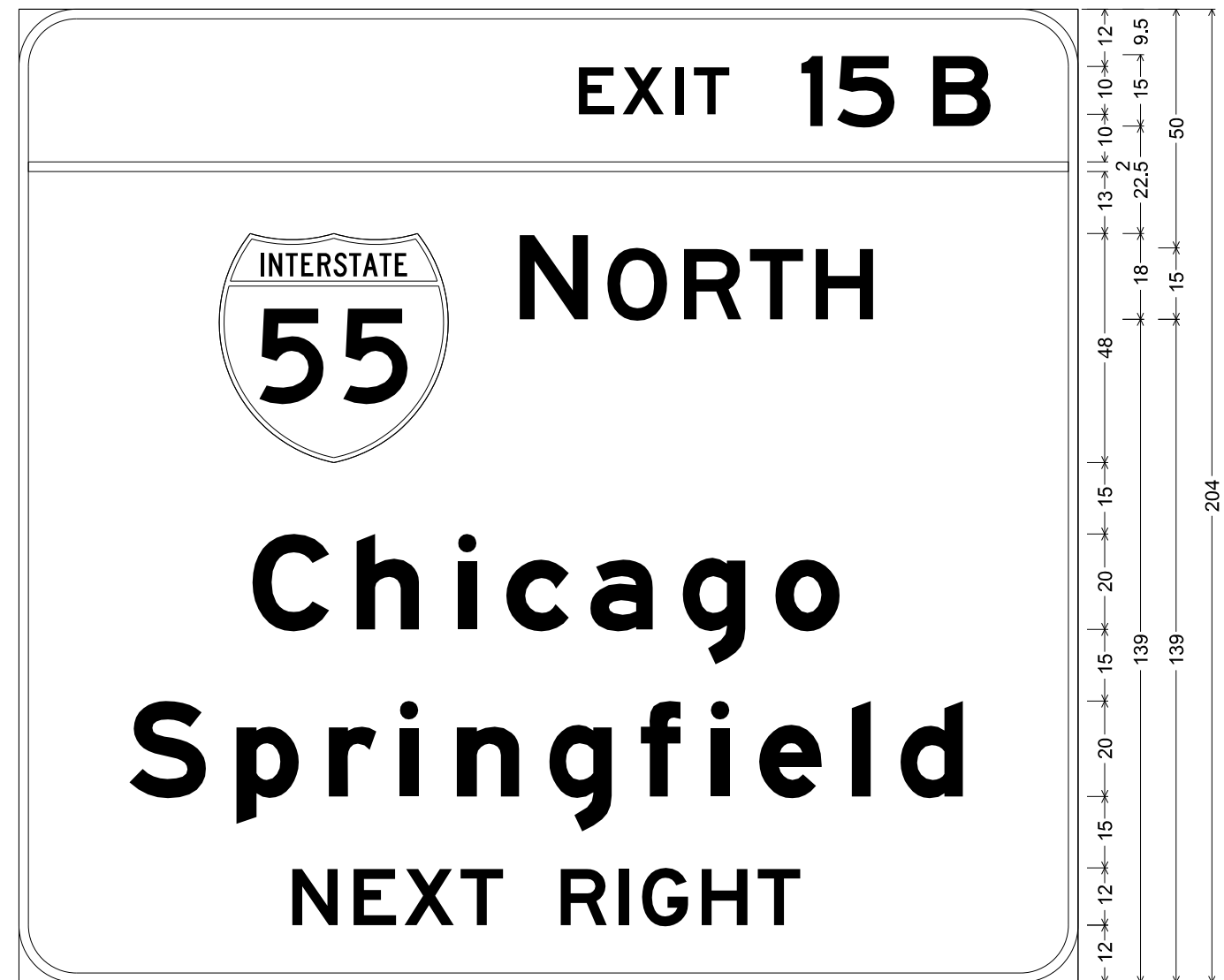
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	148
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

STA. 847+26 FAI-270 EAST BOUND
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - TYPE 3, 314.5 SQ FT
 SIGN PANEL - TYPE 3, 314.5 SQ FT
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



12.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E 2K 120% spacing; "15", E 2K; "B", E 2K; "NORTH", E 2K; "Chicago", E Mod 2K;
 "Springfield", E Mod 2K; "NEXT RIGHT", E 2K;

Table of widths and spaces

117.4	E	7.5	X	1.7	8.7	2.4	I	1.8	2.0	T	7.5	15.0	4.5	3.0	5	12.2	8.0	B	12.1	18.2													
2.0		218.0		2.0																													
42.0	55	48.0	N	15.0	14.6	3.8	O	12.6	3.4	R	12.2	1.6	T	11.3	2.5	H	12.2	42.8															
49.0	C	16.2	h	5.6	13.2	8.0	i	4.0	6.2	c	13.2	4.4	a	13.2	6.2	g	13.2	6.2	o	13.6	49.8												
23.2	S	16.2	p	6.2	13.2	6.2	r	10.0	4.8	i	4.0	8.0	n	13.2	6.2	g	13.2	6.0	f	8.4	6.2	i	4.0	6.2	e	13.2	6.2	l	4.0	6.2	d	13.2	24.0
57.3	N	9.7	E	3.2	9.0	1.6	X	10.5	1.3	T	9.0	12.0	R	9.7	2.4	I	2.2	2.7	G	9.8	2.7	H	9.7	2.1	T	9.0	58.1						

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 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 (618) 526-9611 IL PROF. DESIGN FIRM NO. 184.000899	USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
	PLOT SCALE = 4.0000' / in.	DRAWN - M.OBRIEN	REVISED -
	DATE = 6/17/2020	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS			
SCALE: N.T.S.	SHEET 18	OF 20 SHEETS	STA. TO STA.

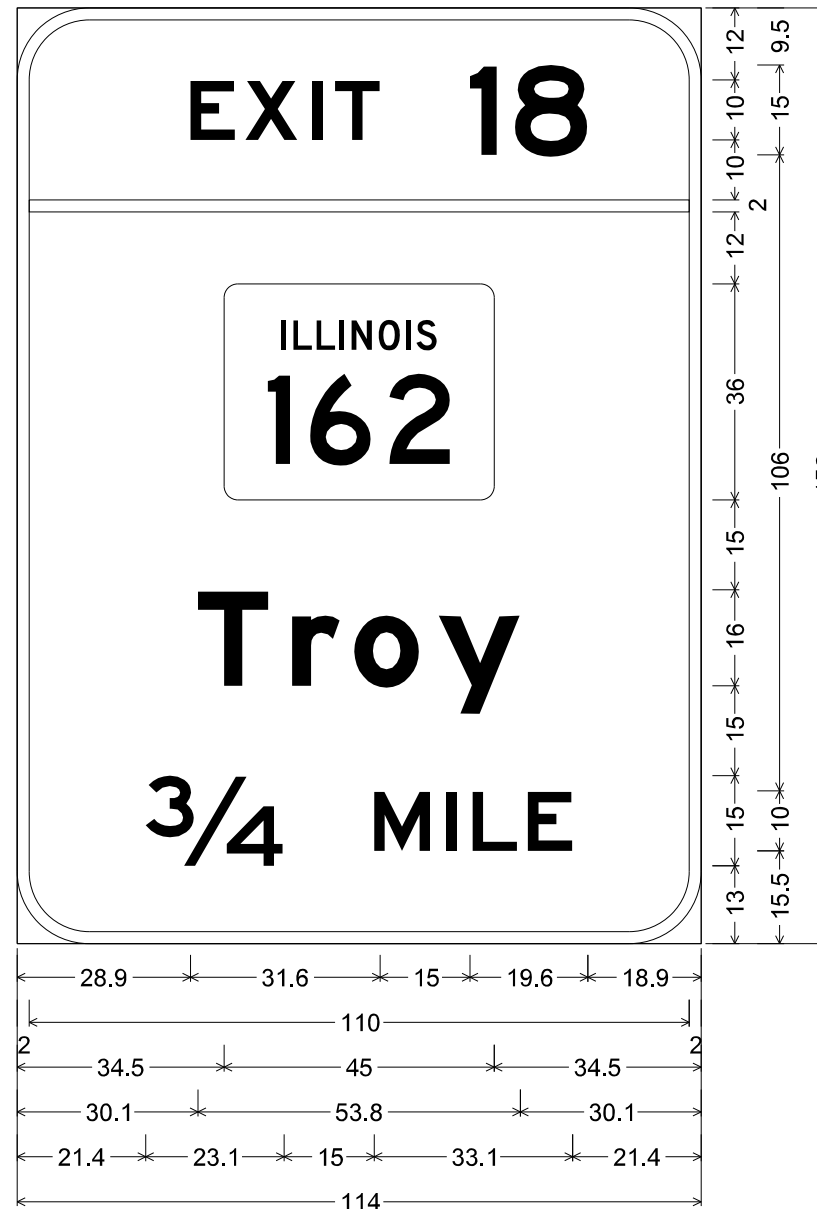
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	150
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQT9(213)				

STA. 899+00 FAI-70 WEST BOUND
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - TYPE 3, 123.5 SQ FT
 SIGN PANEL - TYPE 3, 123.5 SQ FT
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



12.0" Radius, 2.0" Border, White on, Green;
 " EXIT", E 2K 120% spacing; "18", E 2K;
 "Troy", E Mod 2K; "3/4 MILE", E 2K;

Table of widths and spaces

28.9	E	7.5	1.6	X	8.7	2.4	I	1.8	2.1	T	7.5	15.0	1	4.5	3.0	8	12.1	18.9
2.0	110.0		2.0															
34.5	162		34.5															
30.1	T	11.9	3.8	r	8.0	2.4	o	10.9	3.2	y	13.6	30.1						
21.4	3/4	23.1	15.0	M	9.4	2.6	I	1.8	2.6	L	7.5	1.7	E	7.5	21.4			

STA. 1305+30 FAI-55 SOUTH BOUND
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - TYPE 3, 123.5 SQ FT
 SIGN PANEL - TYPE 3, 123.5 SQ FT
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH

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 IL PROF. DESIGN FIRM NO. 184.000899

HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 4.0000' / in.	DRAWN - M.OBRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 19 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	151
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQT9(213)				

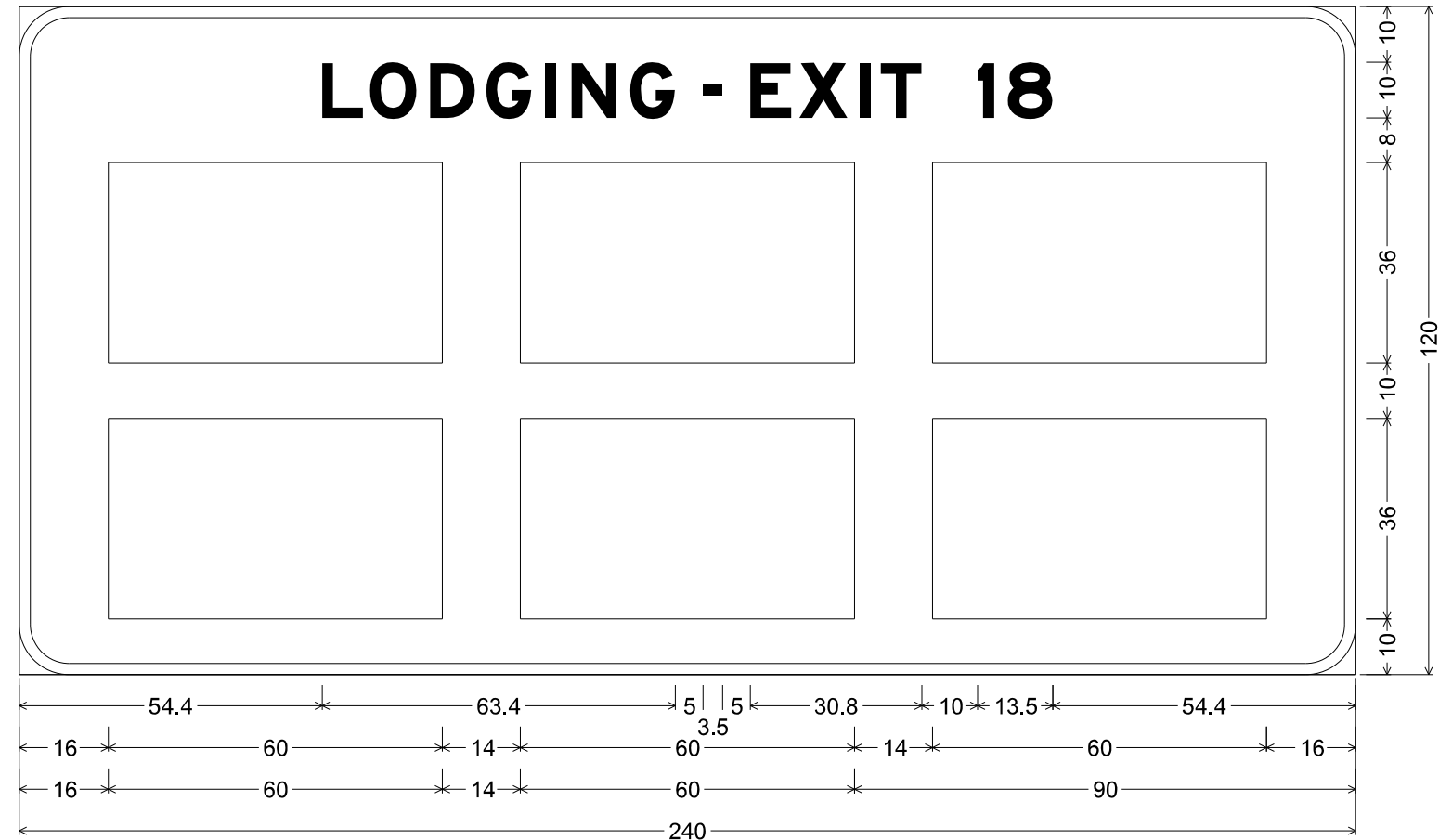
STA. 892+58 FAI-70 WEST BOUND
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - TYPE 3, 200.0 SQ FT
 SIGN PANEL - TYPE 3, 200.0 SQ FT

NOTE: TYPE AP SHEETING SHALL BE USED FOR ALL BLUE SIGN PANELS



PHOTO COURTESY OF GOOGLE EARTH



9.0" Radius, 2.0" Border, White on, Blue;

"LODGING - EXIT 18", E Mod 2K;

Table of letter and object lefts

L	O	D	G	I	N	G	-	E	X	I	T	1	8
54.4	63.0	73.8	83.9	94.4	99.2	109.7	122.8	131.3	140.1	150.9	154.7	172.1	177.5
16.0	90.0	164.0											
16.0	90.0	164.0											

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USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
	DRAWN - M.OBRIEN	REVISED -
PLOT SCALE = 4.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/17/2020	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

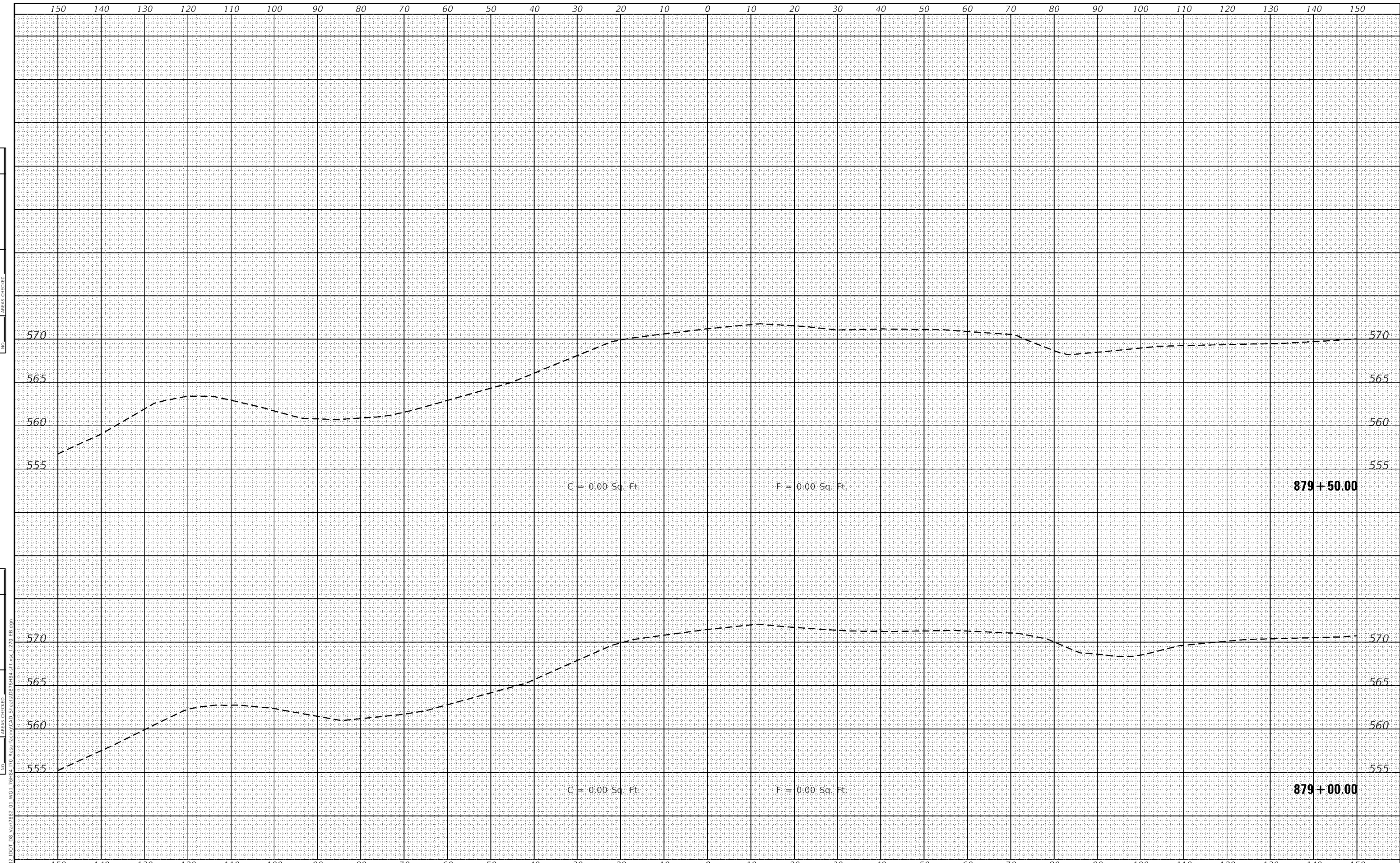
SIGN PANEL DETAILS

SCALE: N.T.S. SHEET 20 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	152
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT NHPP-YQ19(213)				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS	
AREA'S CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS	
AREA'S CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

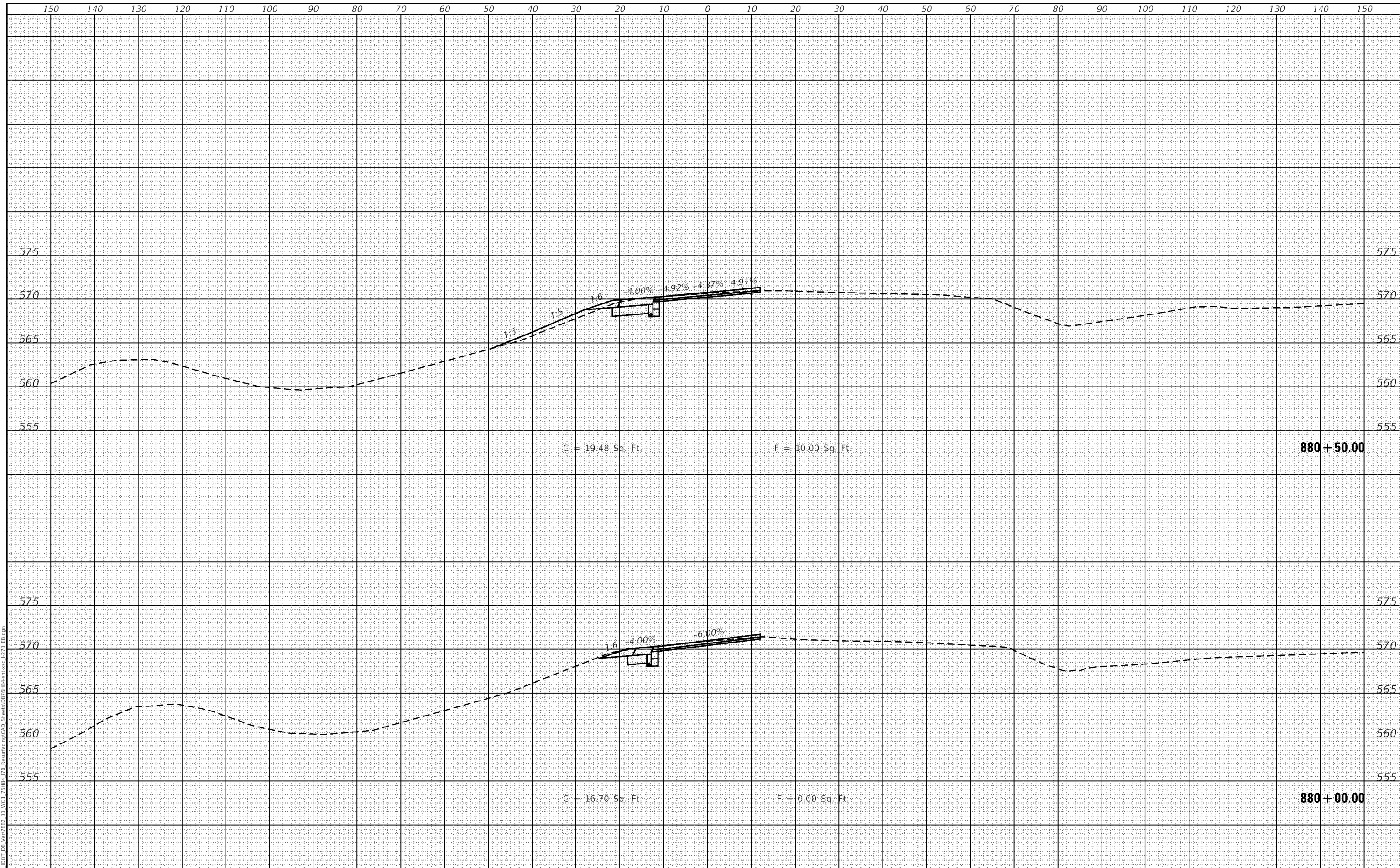
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 FAI-270 EAST BOUND**
 SCALE: 1" = 10'
 SHEET OF SHEETS STA. 879+00.00 TO STA. 879+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	153
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-Y0T9(213)	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	

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ORIGINAL SURVEY	
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NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

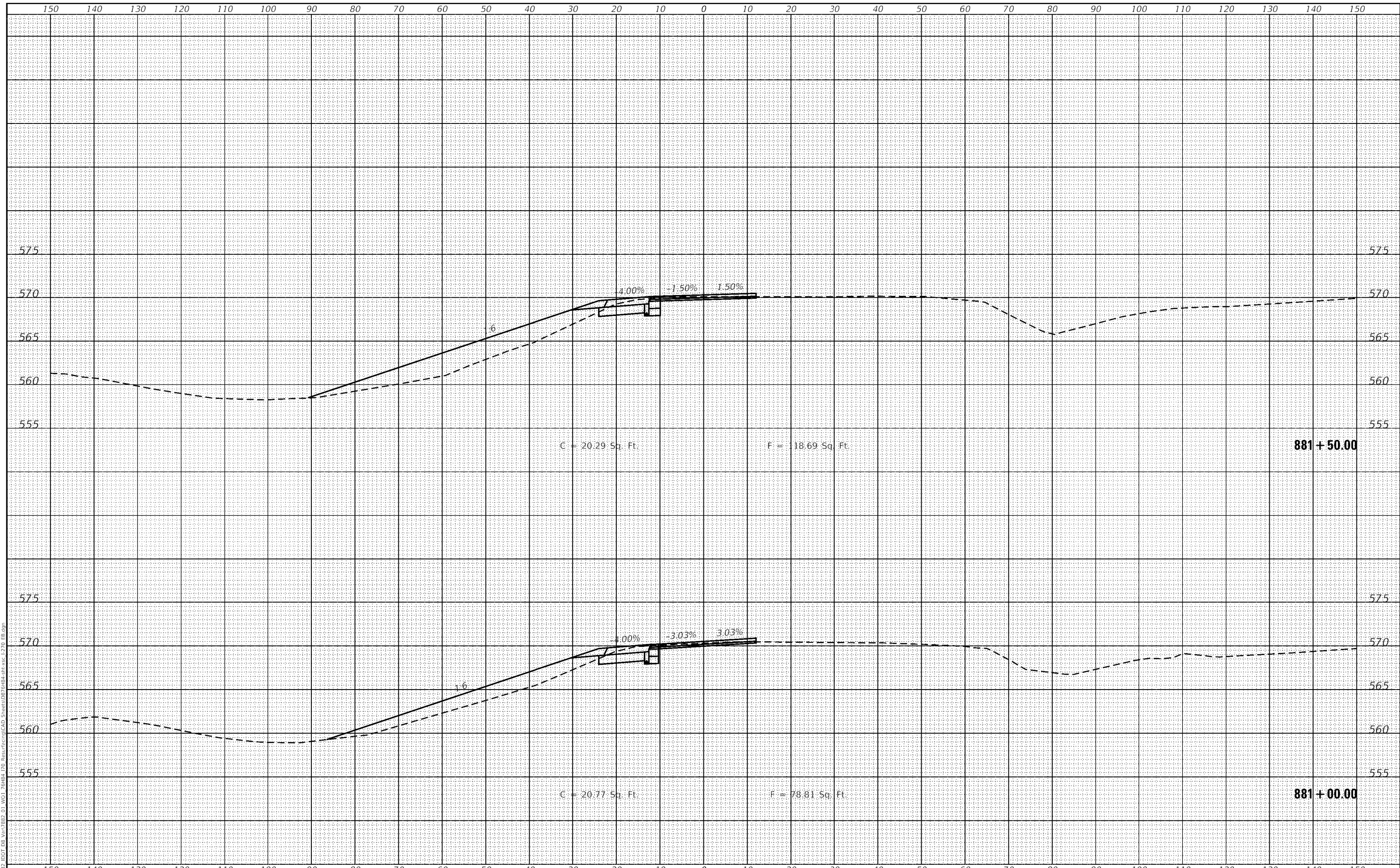
**CROSS SECTIONS
 FAI-270 EAST BOUND**

SCALE: 1" = 10' SHEET OF SHEETS STA. 880+00.00 TO STA. 880+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	154
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-Y0T9(213)	

DATE	
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FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
AREA'S CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
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AREAS	
AREA'S CHECKED	



HMG HMG ENGINEERS, INC.
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 BREESE, ILLINOIS 62230
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

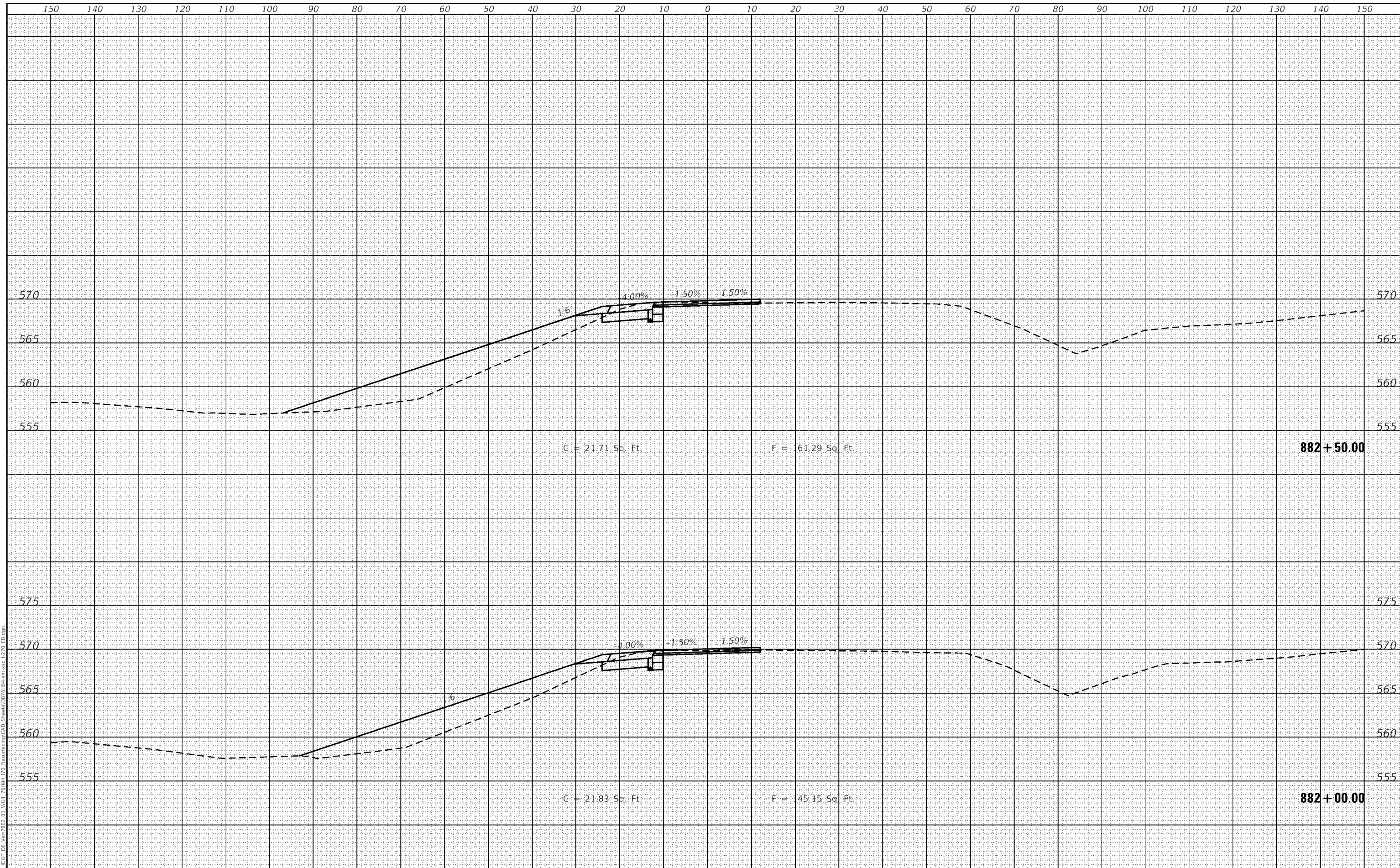
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS FAI-270 EAST BOUND	
SCALE: 1" = 10'	SHEET OF SHEETS
STA. 881+00.00	TO STA. 881+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	155
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-Y0T9(213)	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
W.P.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
W.P.	



HMG HMG ENGINEERS, INC.
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 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
	DRAWN - M.OBRIEN	REVISED -
PLOT SCALE = 20.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 6/17/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 FAI-270 EAST BOUND**

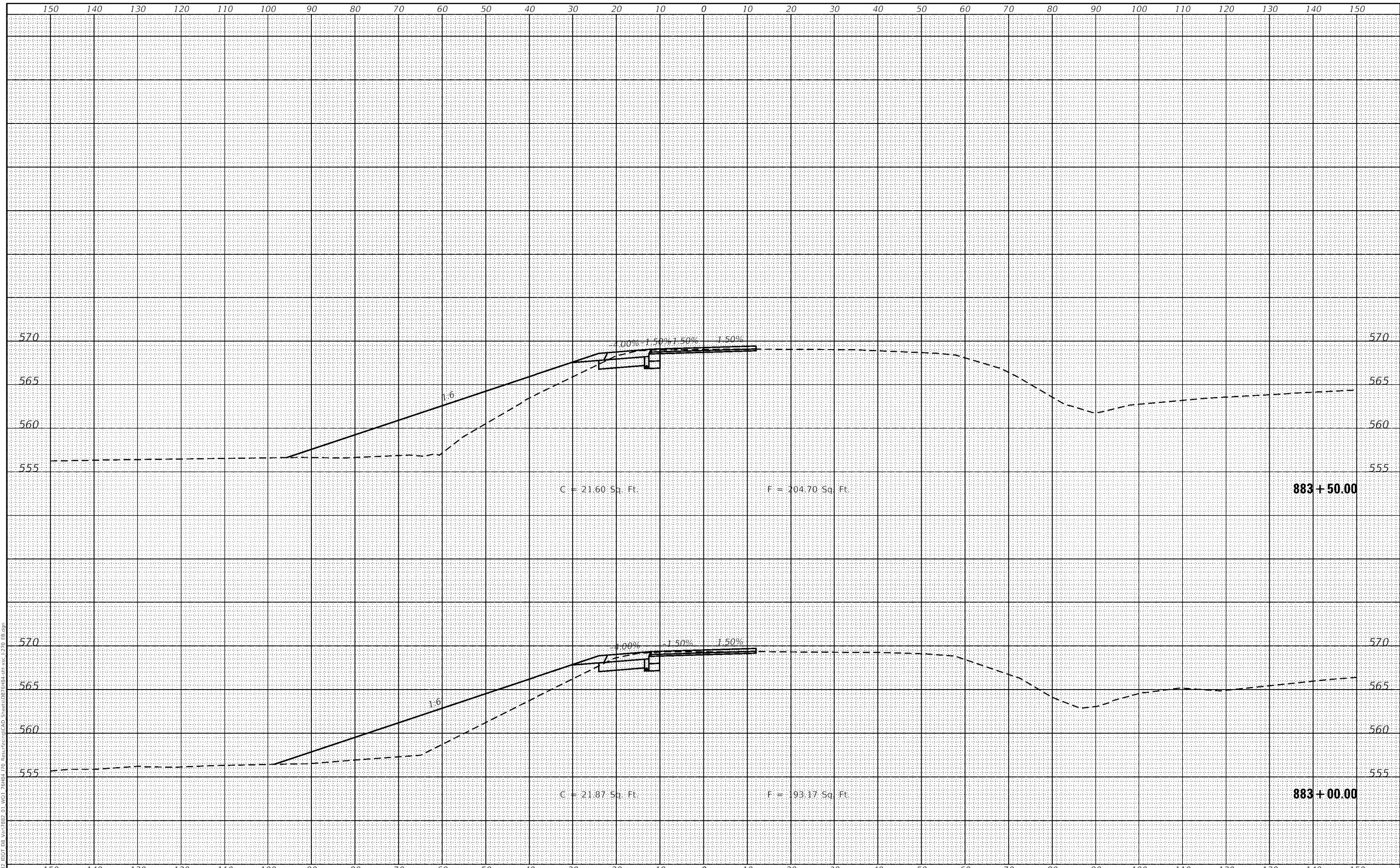
SCALE: 1" = 10' SHEET OF SHEETS STA. 882+00.00 TO STA. 882+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	156
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-Y0T9(213)	

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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TEMPLATE	
AREAS	
AREA'S CHECKED	

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HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.O'BRIEN	REVISED -	
		DRAWN -	M.O'BRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

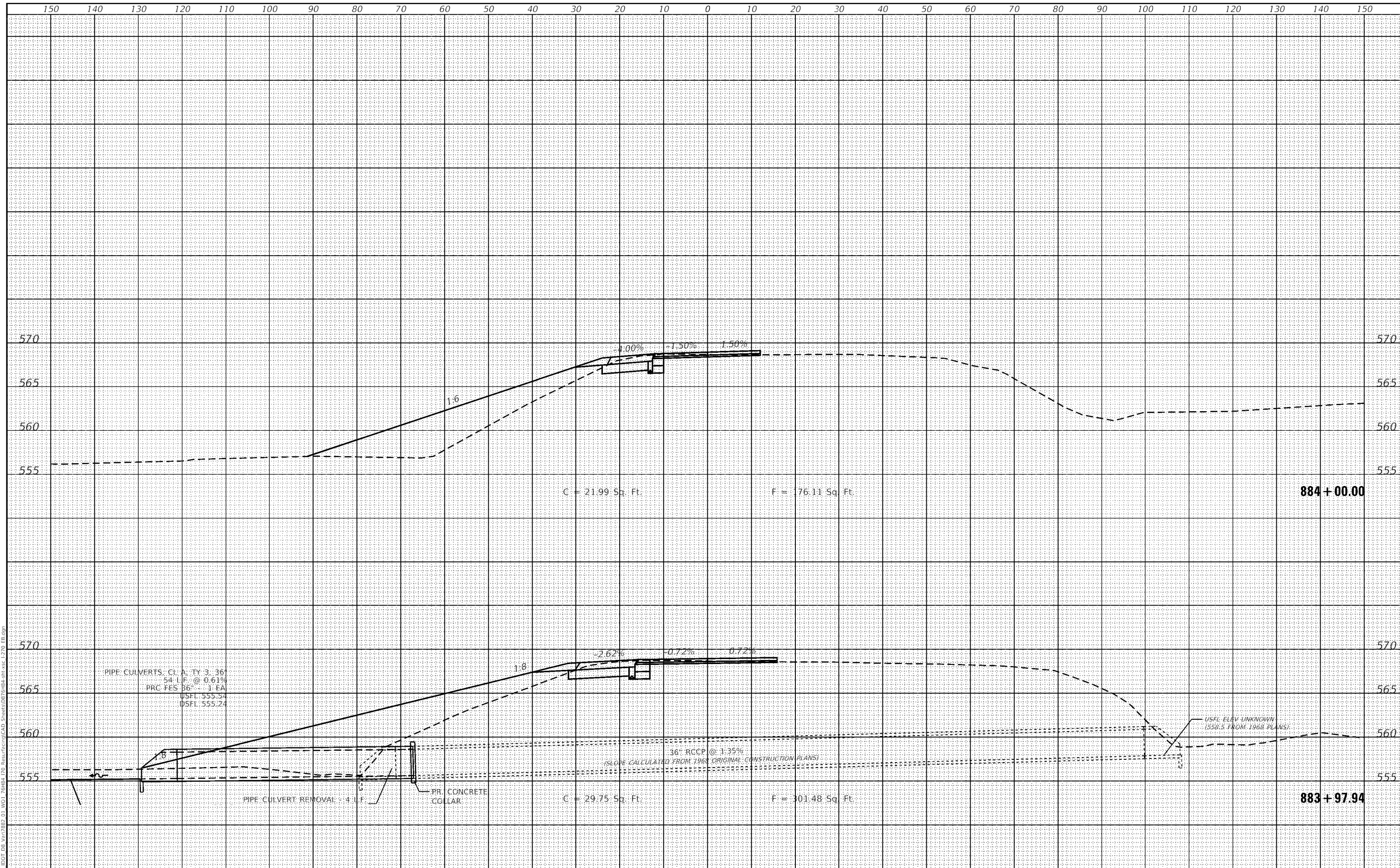
SCALE: 1" = 10'	SHEET	OF	SHEETS	STA. 883+00.00	TO STA. 883+50.00
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**CROSS SECTIONS
 FAI-270 EAST BOUND**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	157
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-Y0T9(213)	

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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AREA	CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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AREA	CHECKED



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HMG HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
(618) 526-9611
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien
DESIGNED - M.O'BRIEN
DRAWN - M.O'BRIEN
CHECKED -
DATE -
PLOT SCALE = 20.0000' / 1"
PLOT DATE = 6/17/2020

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

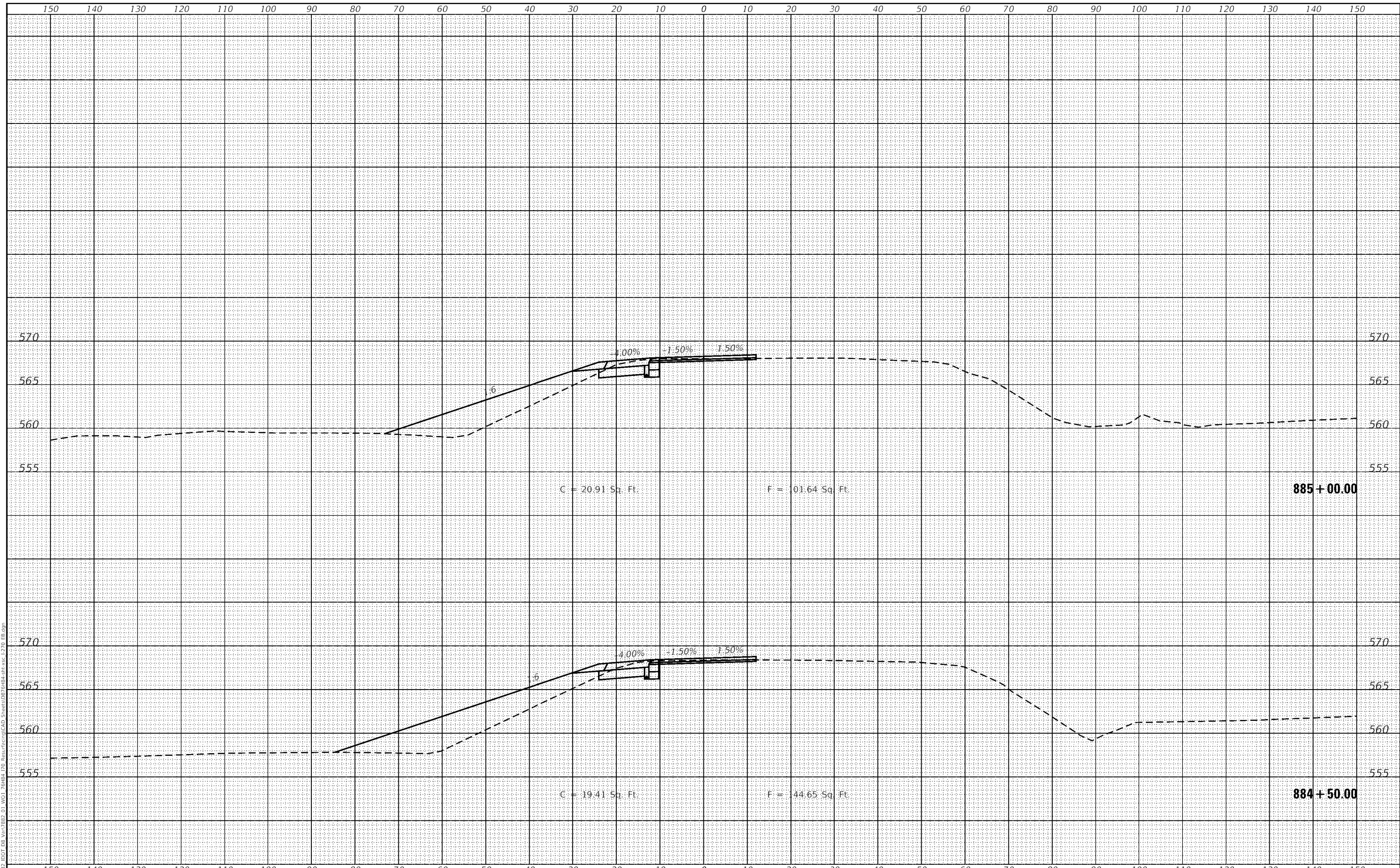
**CROSS SECTIONS
FAI-270 EAST BOUND**

SCALE: 1" = 10' SHEET OF SHEETS STA. 883+97.94 TO STA. 884+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	158
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-Y0T9(213)	

DATE	
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FINAL SURVEY	
NOTE BOOK	
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AREAS CHECKED	

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BY	
ORIGINAL SURVEY	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.O'BRIEN	REVISED -	
		DRAWN -	M.O'BRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

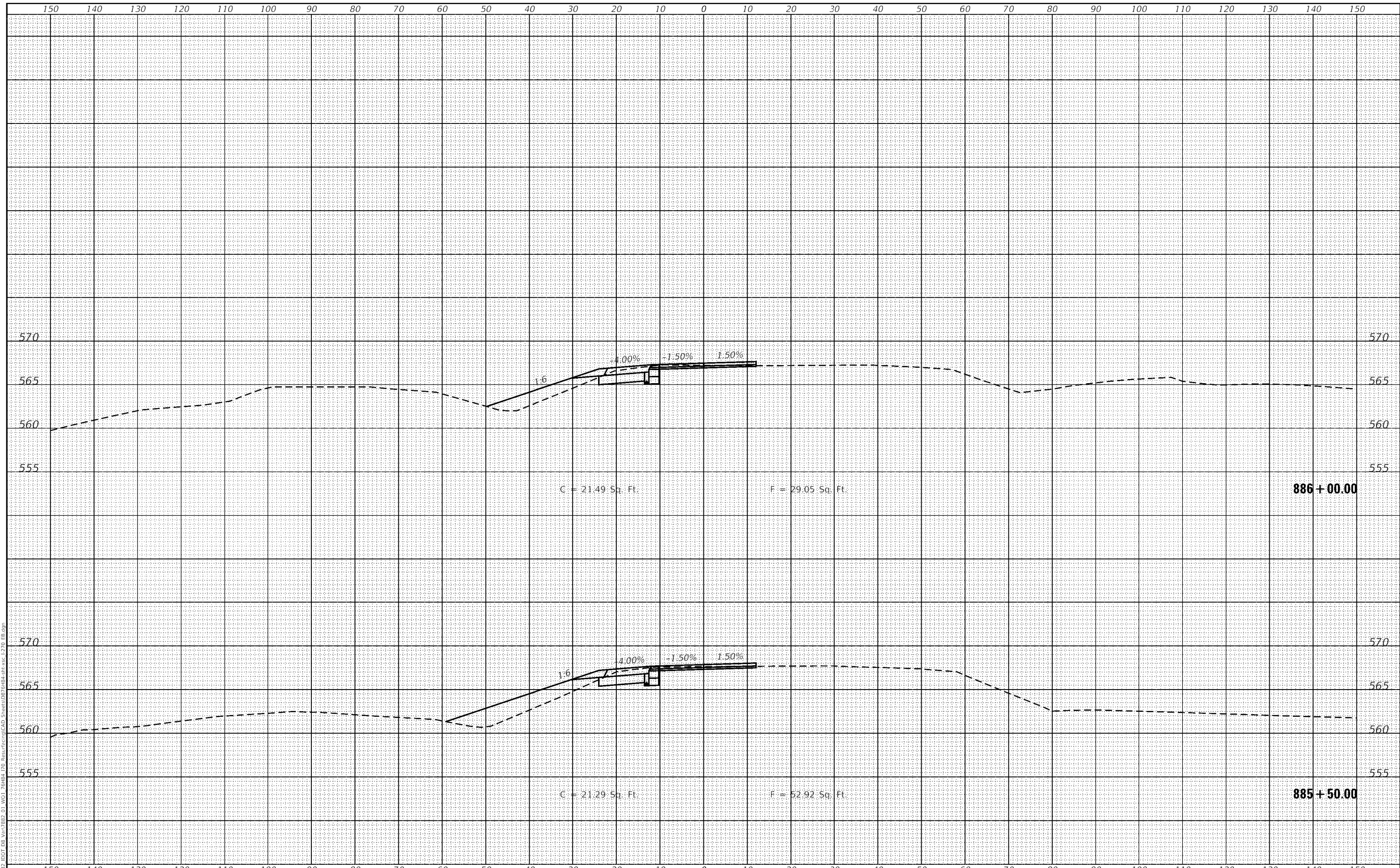
**CROSS SECTIONS
 FAI-270 EAST BOUND**

SCALE: 1" = 10' SHEET OF SHEETS STA. 884+50.00 TO STA. 885+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	159
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-Y0T9(213)	

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



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

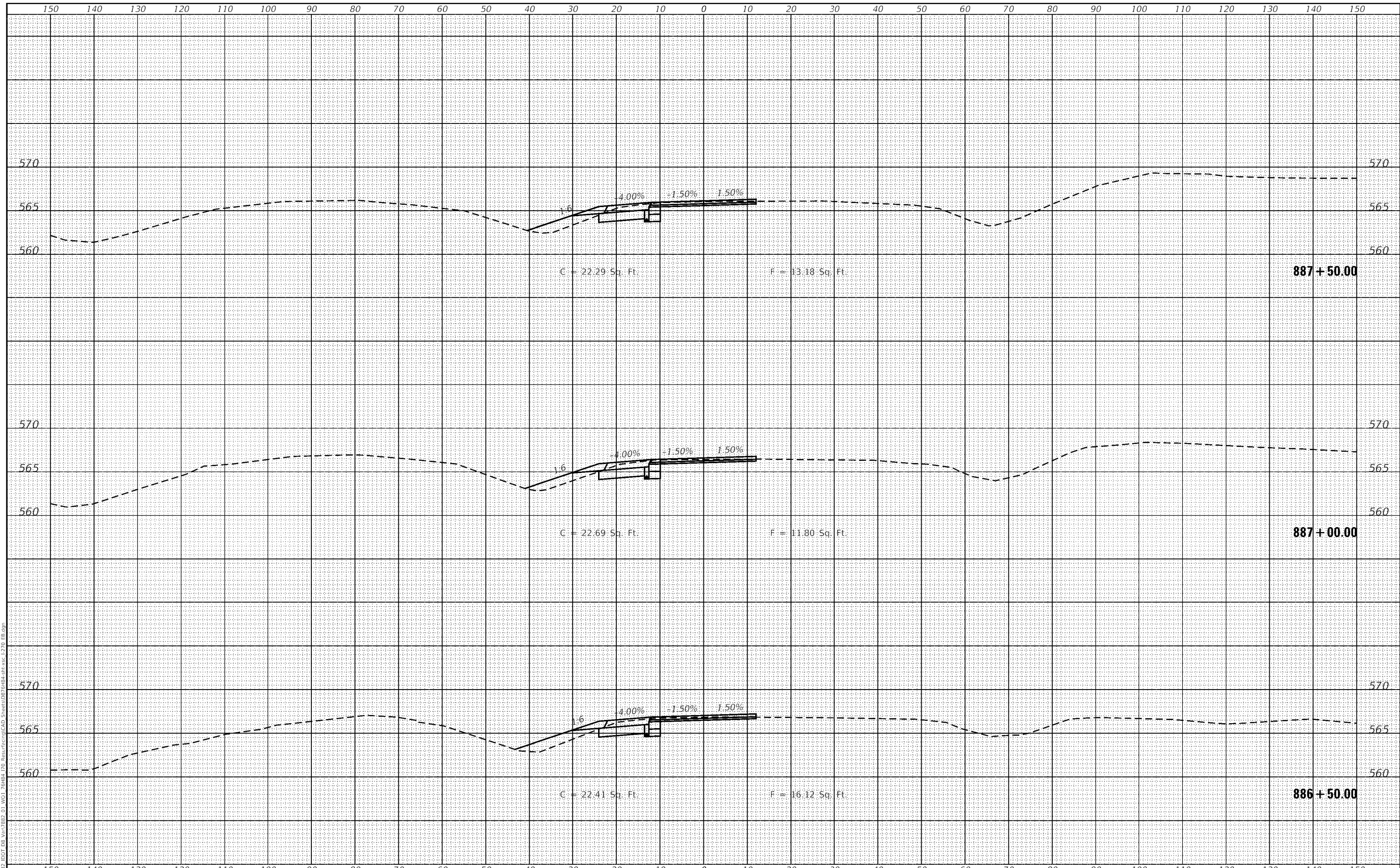
**CROSS SECTIONS
 FAI-270 EAST BOUND**

SCALE: 1" = 10' SHEET OF SHEETS STA. 885+50.00 TO STA. 886+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	160
CONTRACT NO. 76H84			NHPPT-Y0T9(213)	

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

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



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

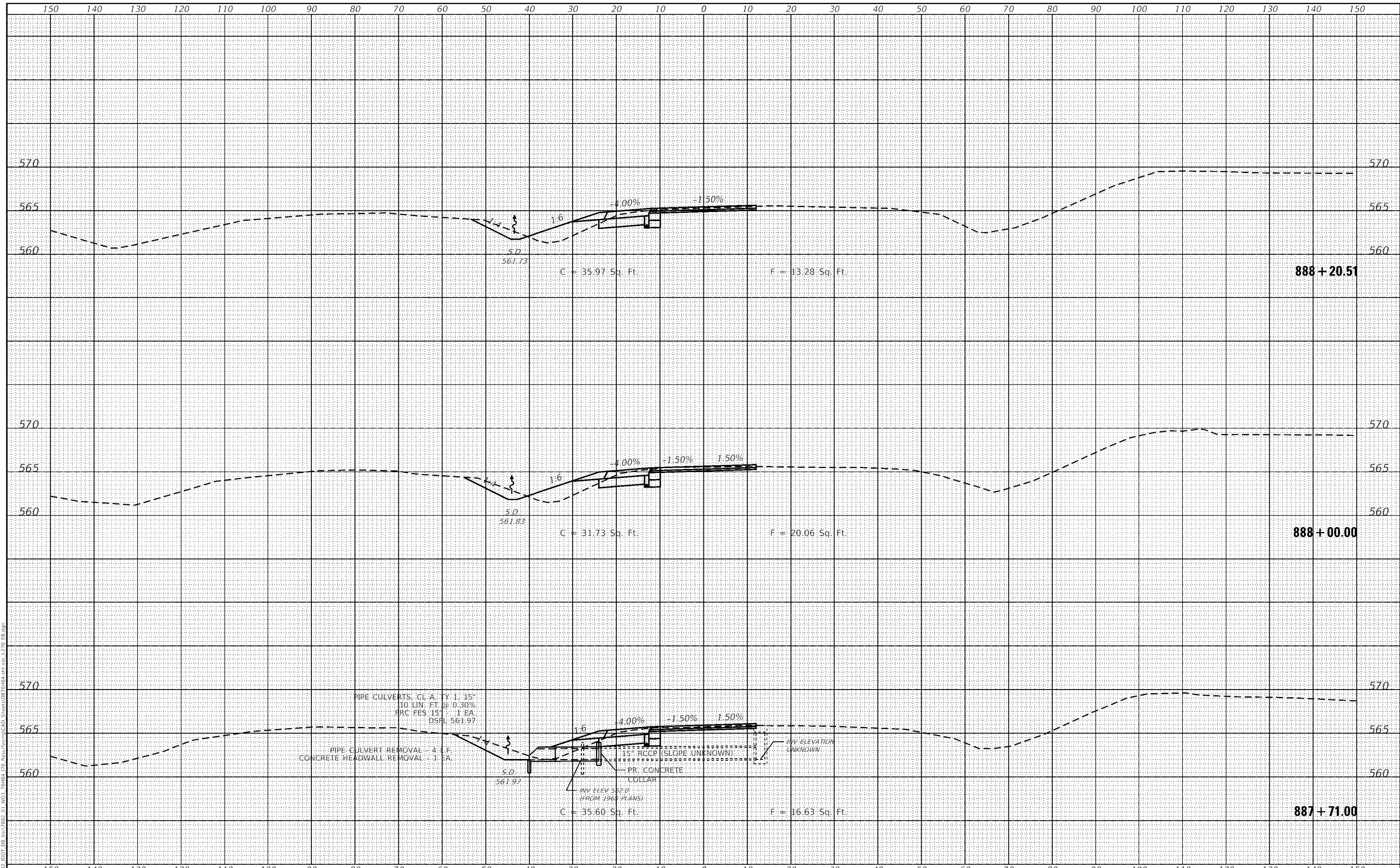
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
FAI-270 EAST BOUND	
SCALE: 1" = 10'	SHEET OF SHEETS
STA. 886+50.00	TO STA. 887+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	161
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-Y0T9(213)	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREA	TEMPLATE
AREA	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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AREA	CHECKED



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HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
PLOT SCALE = 20.0000' / 1"	DRAWN - M.OBRIEN	REVISED -
PLOT DATE = 6/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

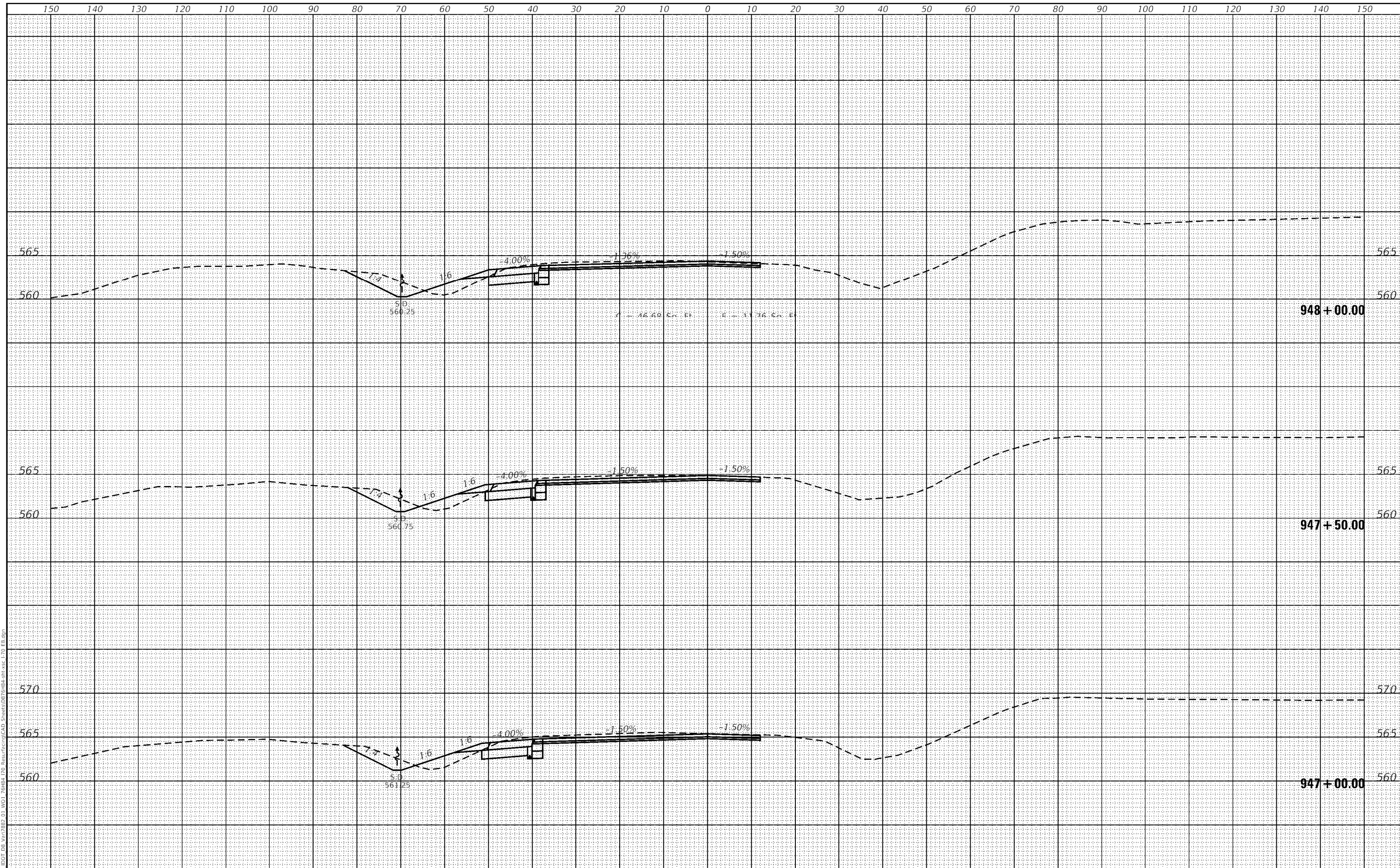
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**CROSS SECTIONS
 FAI-270 EAST BOUND**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	162
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-Y0T9(213)	

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



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers + Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 6/17/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

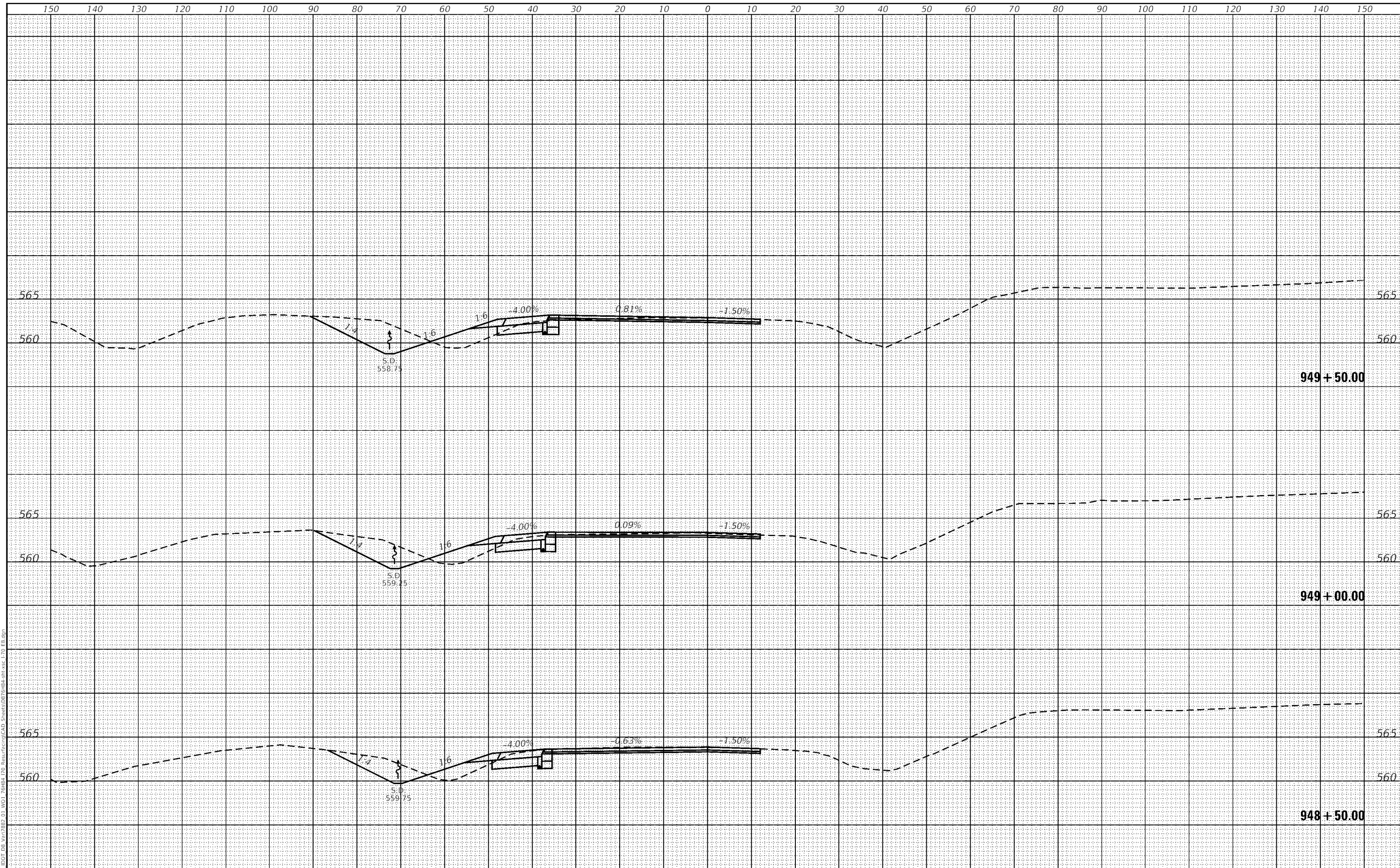
**CROSS SECTIONS
 FAI-70 EAST BOUND**

SCALE: 1" = 10' SHEET OF SHEETS STA. 947+00.00 TO STA. 948+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	163
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-QY9(213)	

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

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BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

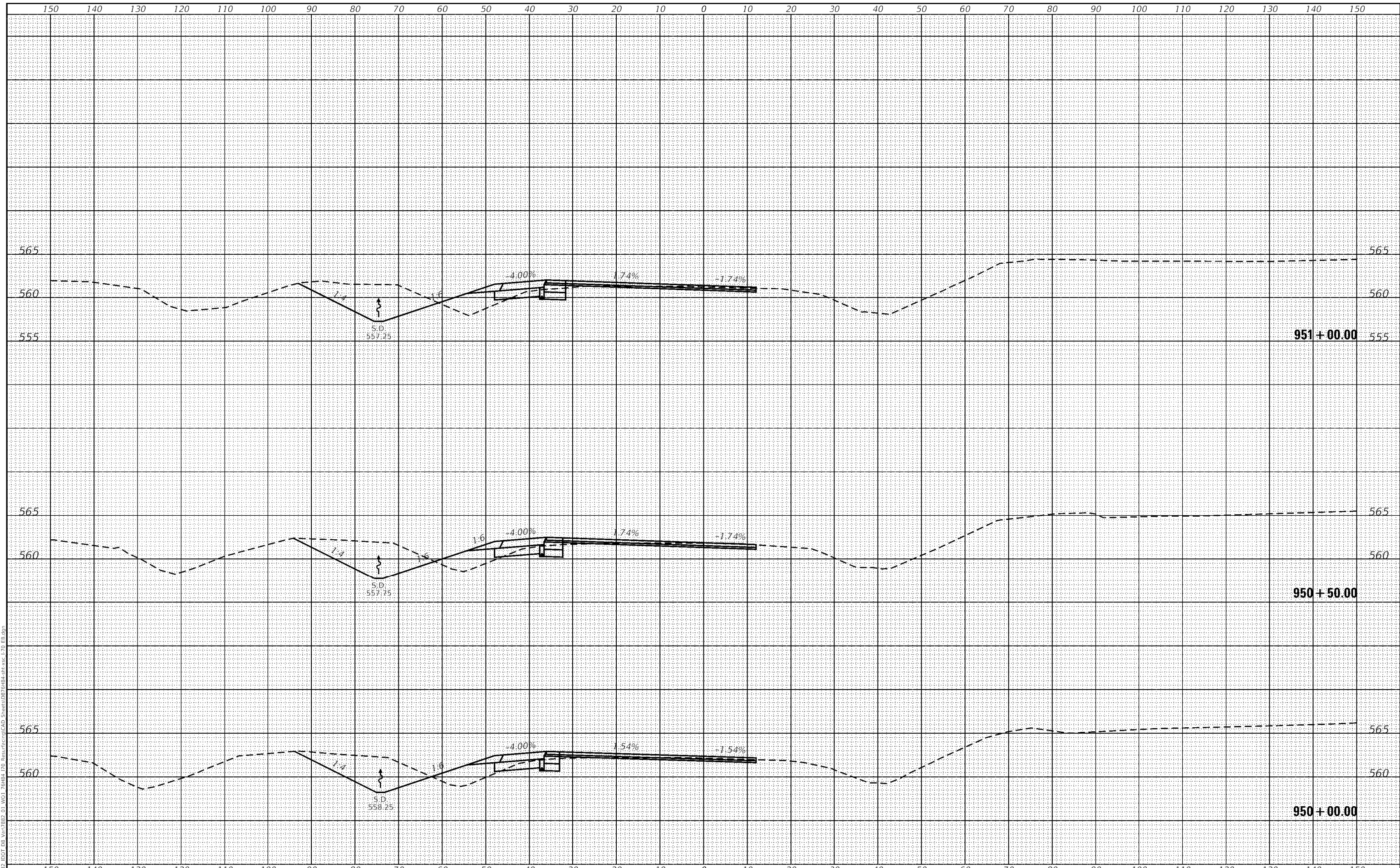
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 FAI-70 EAST BOUND**
 SCALE: 1" = 10'
 SHEET OF SHEETS STA. 948+50.00 TO STA. 949+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	164
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-QY79(213)	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
AREAS CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers + Surveyors
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

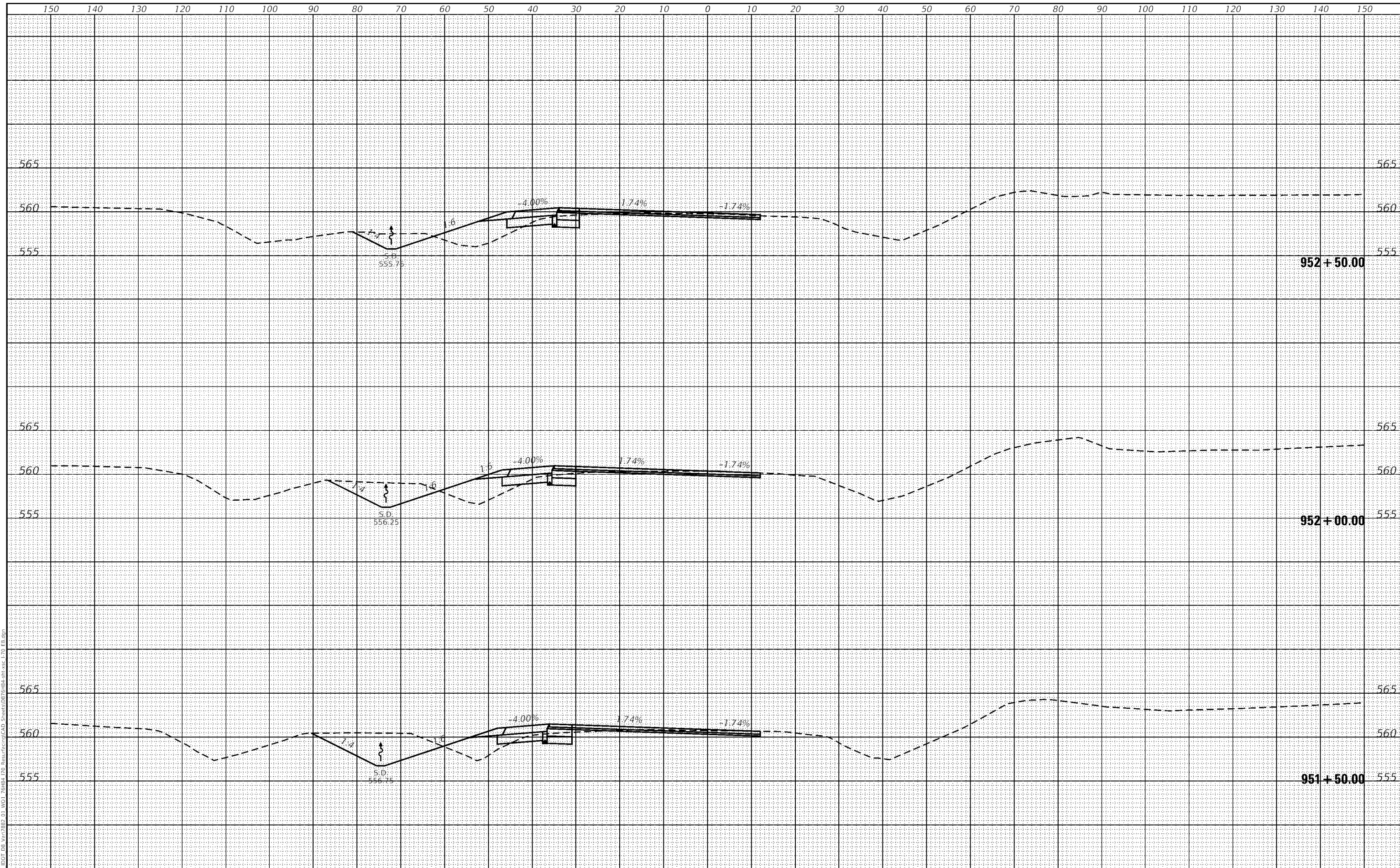
**CROSS SECTIONS
 FAI-70 EAST BOUND**

SCALE: 1" = 10' SHEET OF SHEETS STA. 950+00.00 TO STA. 951+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	165
CONTRACT NO. 76H84				
ILLINOIS FED. AID PROJECT			NHPP-YQ79(213)	

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

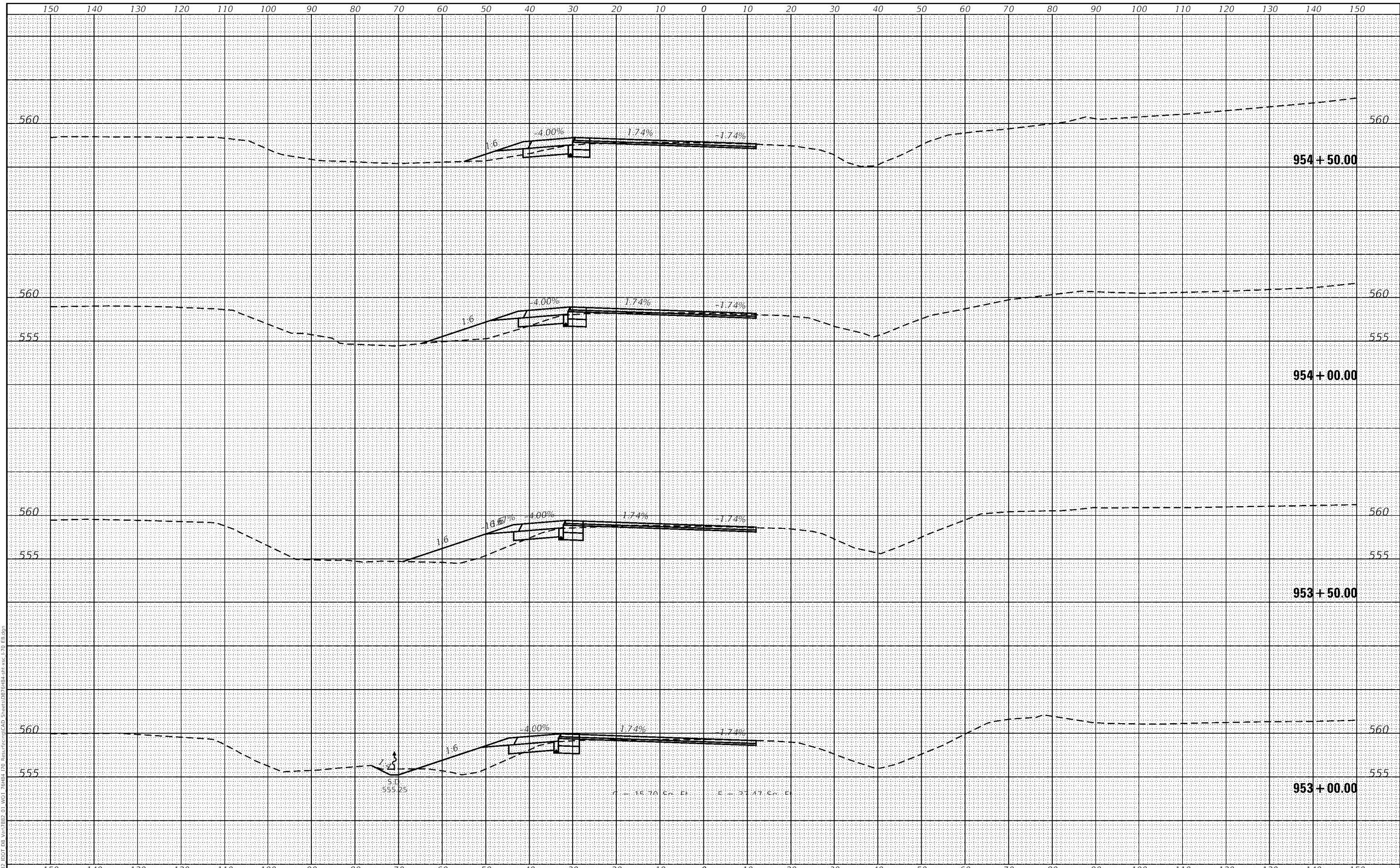
**CROSS SECTIONS
 FAI-70 EAST BOUND**

SCALE: 1" = 10' SHEET OF SHEETS STA. 951+50.00 TO STA. 952+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	166
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-QY9(213)	

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
AREA CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREA CHECKED	



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HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED - M.O'BRIEN	REVISED -
	DRAWN - M.O'BRIEN	REVISED -
PLOT SCALE = 20.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 6/17/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

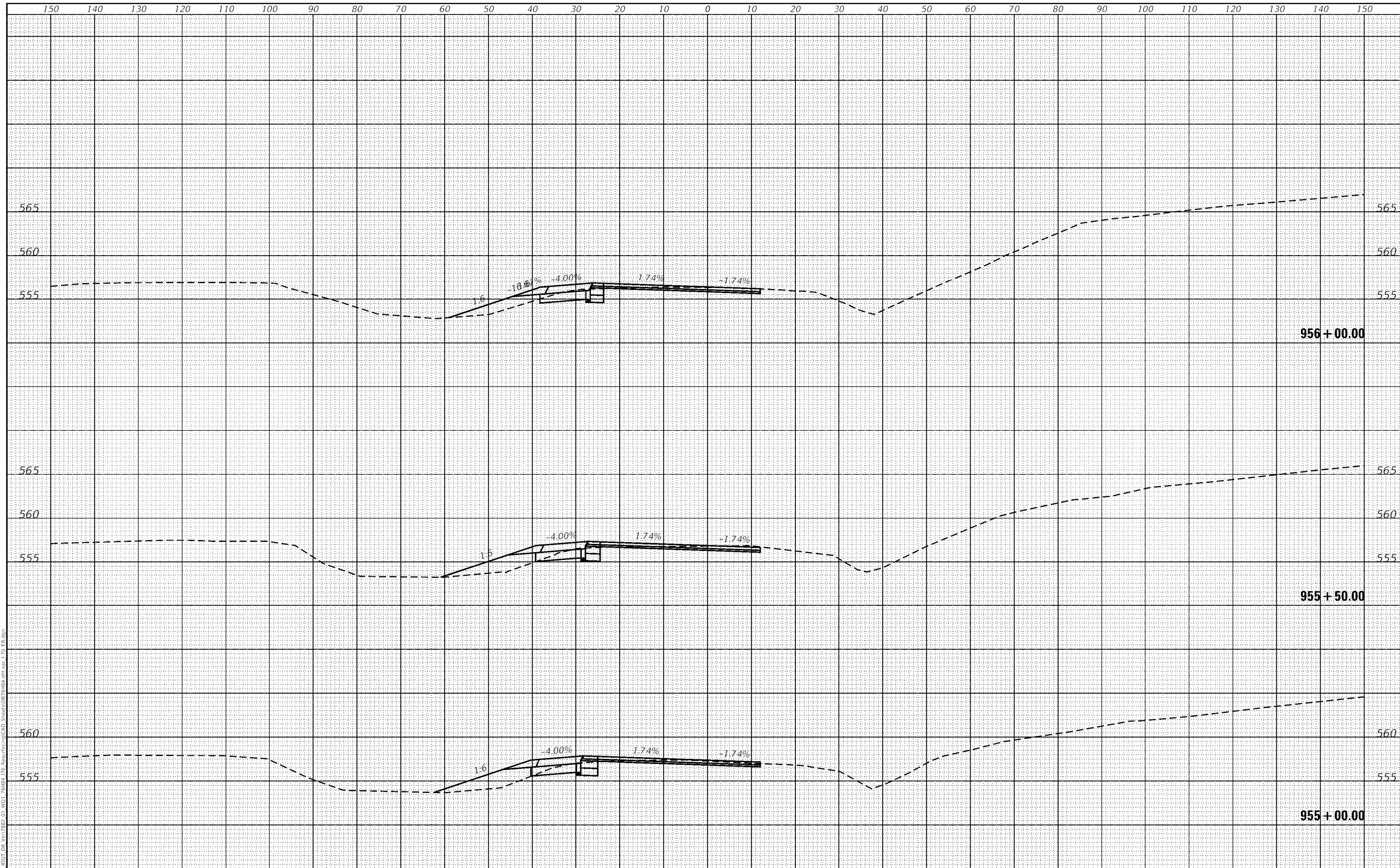
SCALE: 1" = 10'	SHEET	OF	SHEETS	STA. 953+00.00	TO STA. 954+50.00
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**CROSS SECTIONS
 FAI-70 EAST BOUND**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	167
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-QY79(213)	

DATE	
BY	
FINAL SURVEY	
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NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
AREAS CHECKED	



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 PLOT DATE = 6/17/2020

HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers + Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

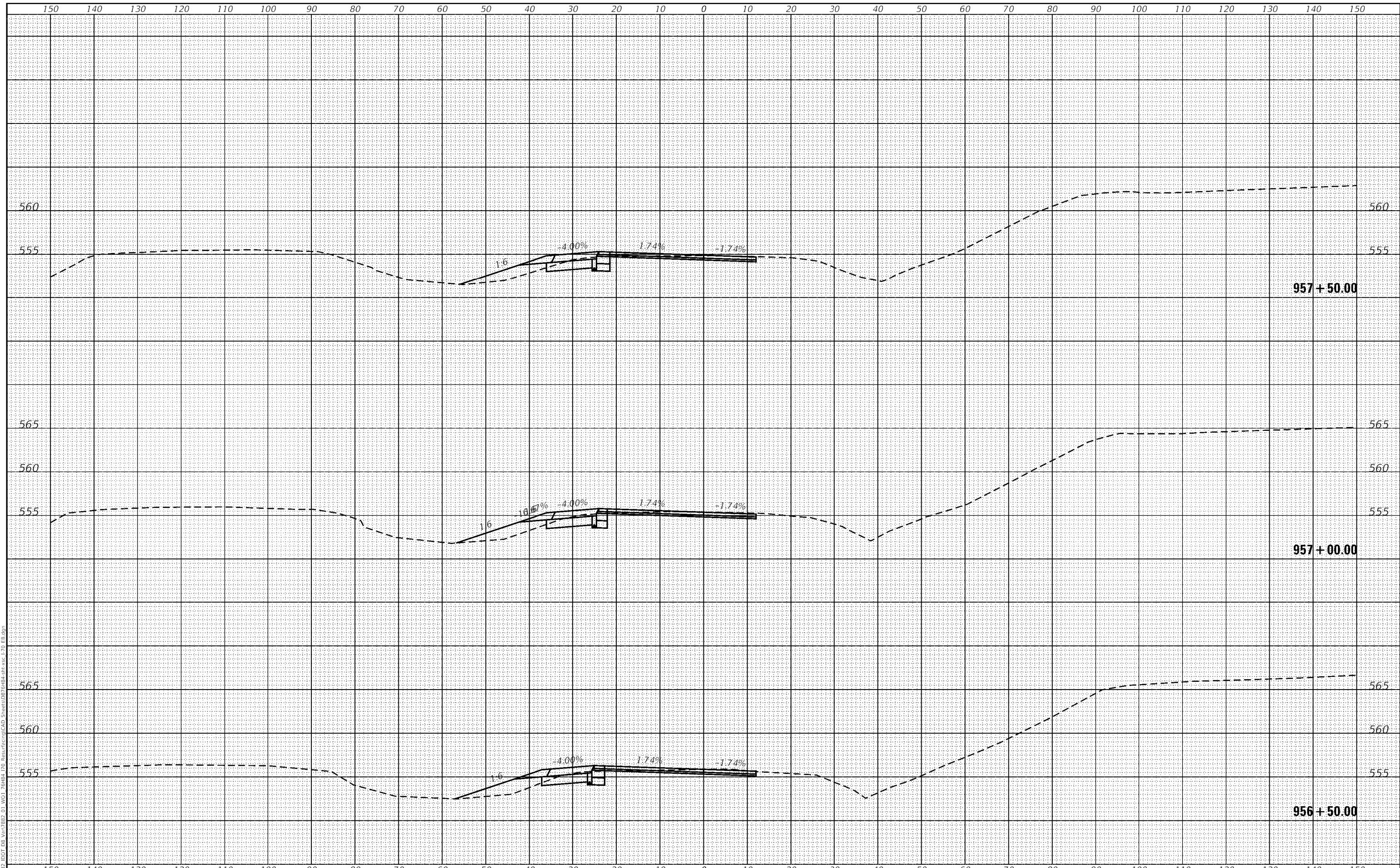
CROSS SECTIONS
 FAI-70 EAST BOUND

SCALE: 1" = 10' SHEET OF SHEETS STA. 955+00.00 TO STA. 956+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	168
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQ79(213)	

DATE	
BY	
FINAL SURVEY	
NOTED BOOK	
AREA'S CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED BOOK	
AREA'S CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers + Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

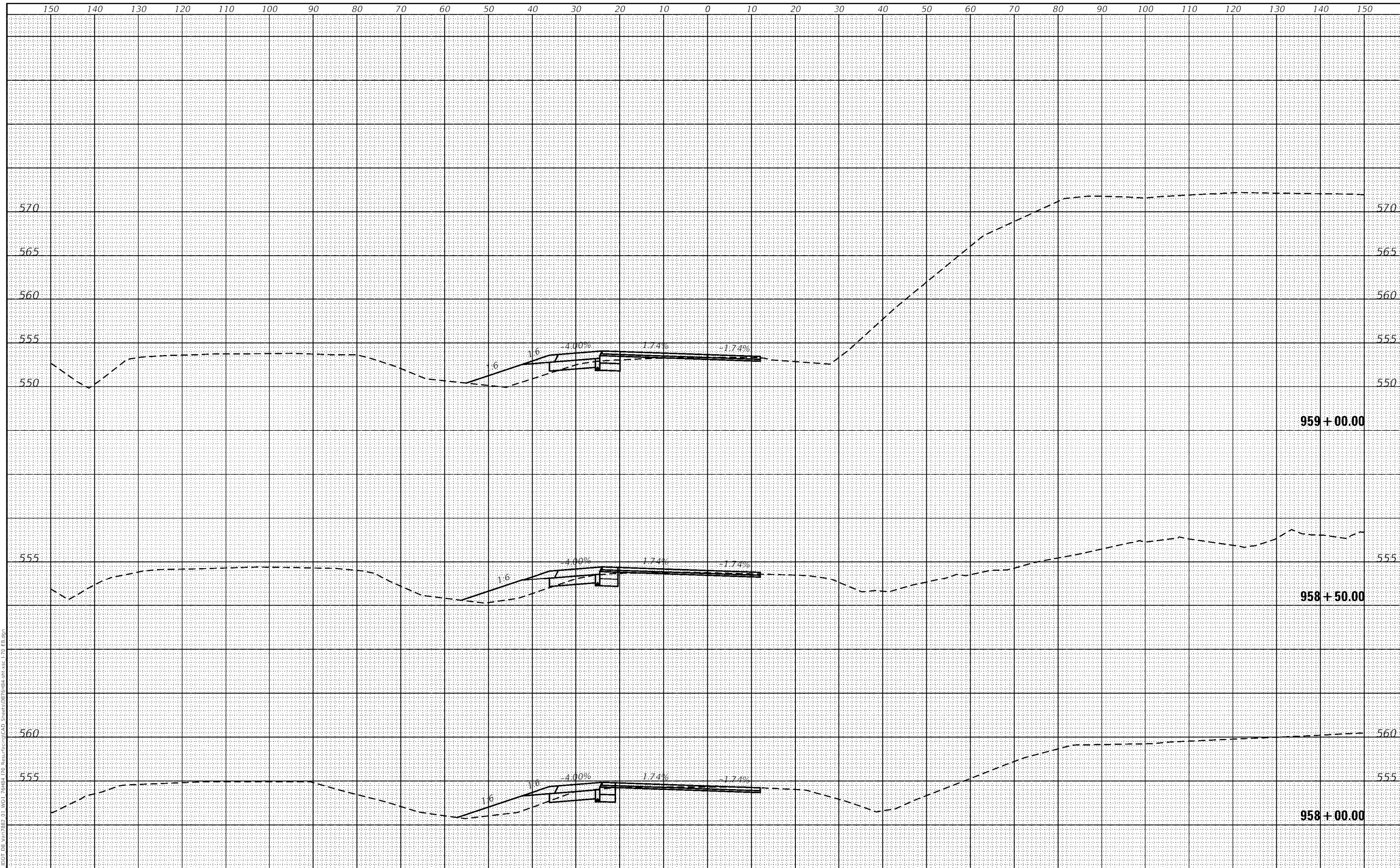
**CROSS SECTIONS
 FAI-70 EAST BOUND**

SCALE: 1" = 10' SHEET OF SHEETS STA. 956+50.00 TO STA. 957+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	169
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

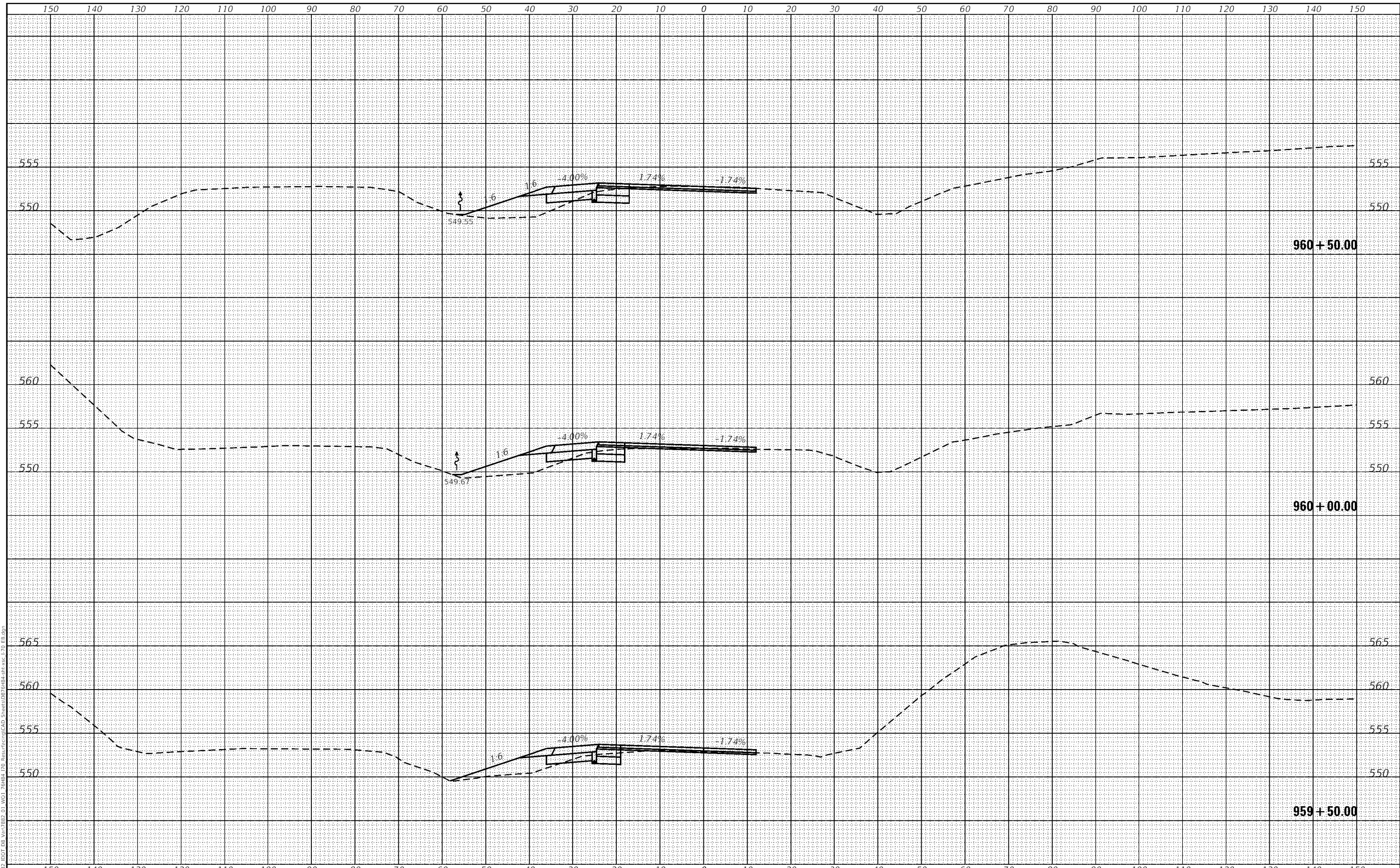
**CROSS SECTIONS
 FAI-70 EAST BOUND**

SCALE: 1" = 10' SHEET OF SHEETS STA. 958+00.00 TO STA. 959+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	170
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-QY9(213)	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREA'S CHECKED	TEMPLATE
	AREA'S CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREA'S CHECKED	TEMPLATE
	AREA'S CHECKED



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 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.O'BRIEN	REVISED -	
		DRAWN -	M.O'BRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

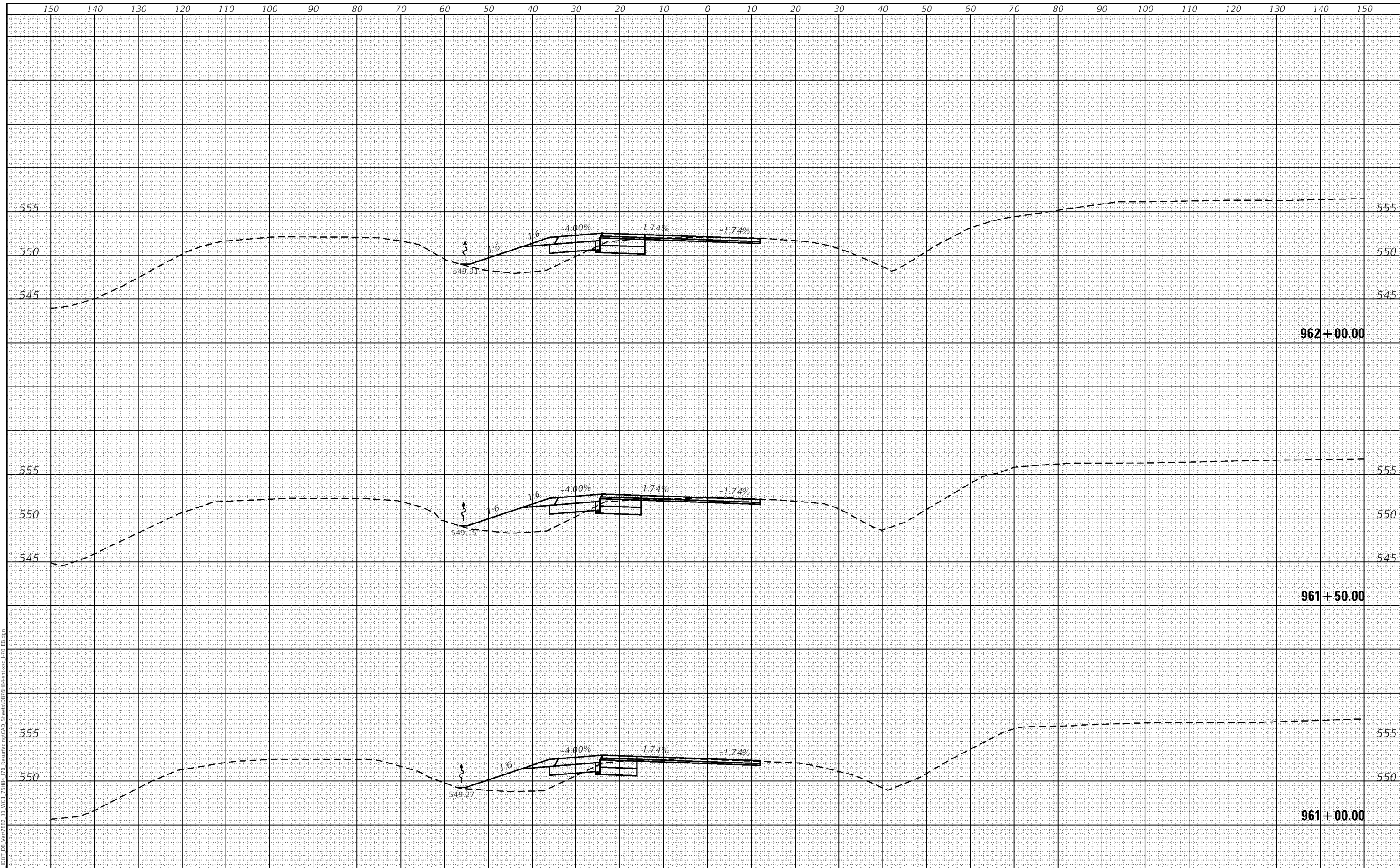
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 FAI-70 EAST BOUND**
 SCALE: 1" = 10'
 SHEET OF SHEETS STA. 959+50.00 TO STA. 960+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	171
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

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

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



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers + Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

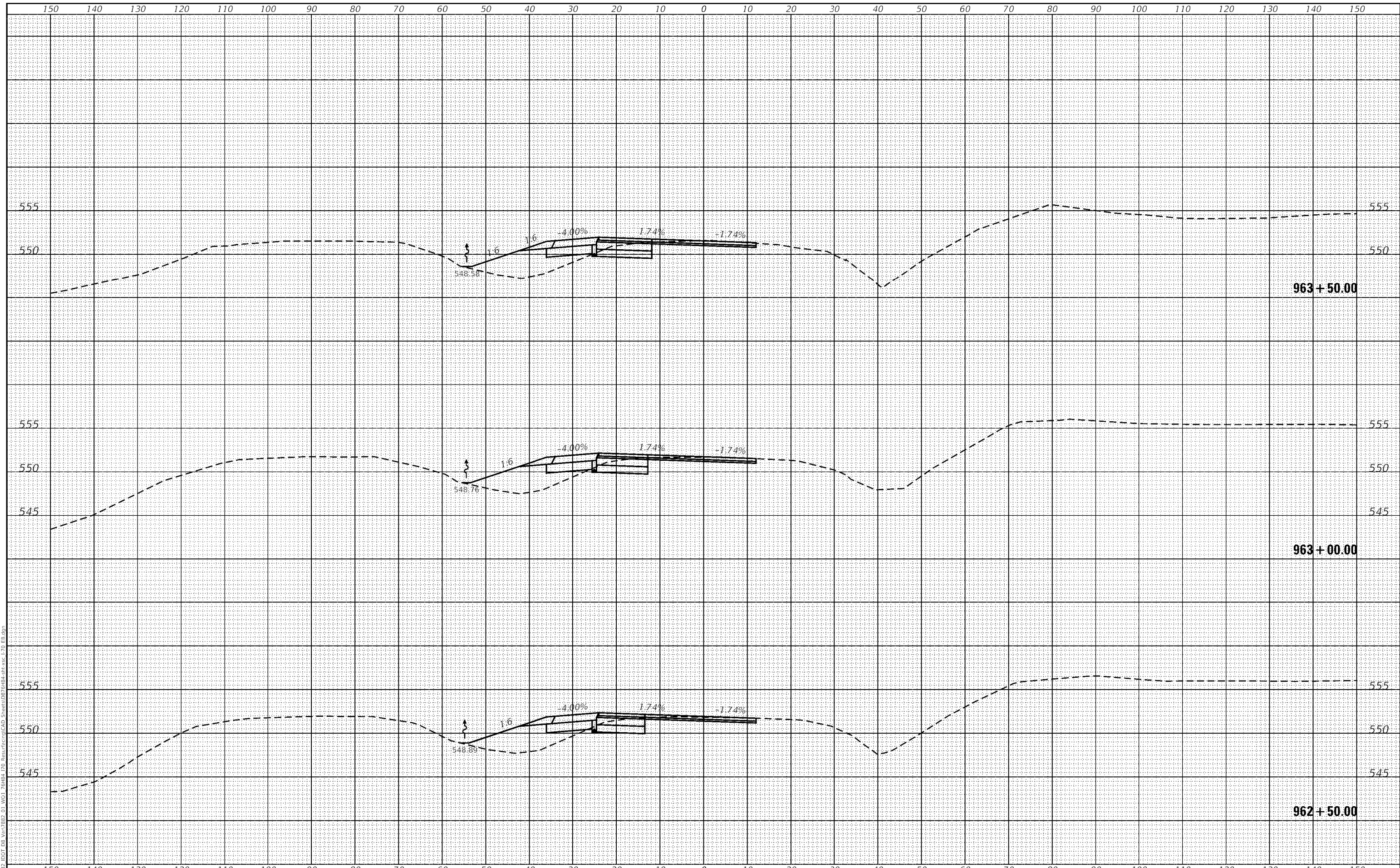
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 FAI-70 EAST BOUND**
 SCALE: 1" = 10' SHEET OF SHEETS STA. 961+00.00 TO STA. 962+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	172
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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BY	
ORIGINAL SURVEY	
SURVEYED	
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NOTE BOOK	
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HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers + Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

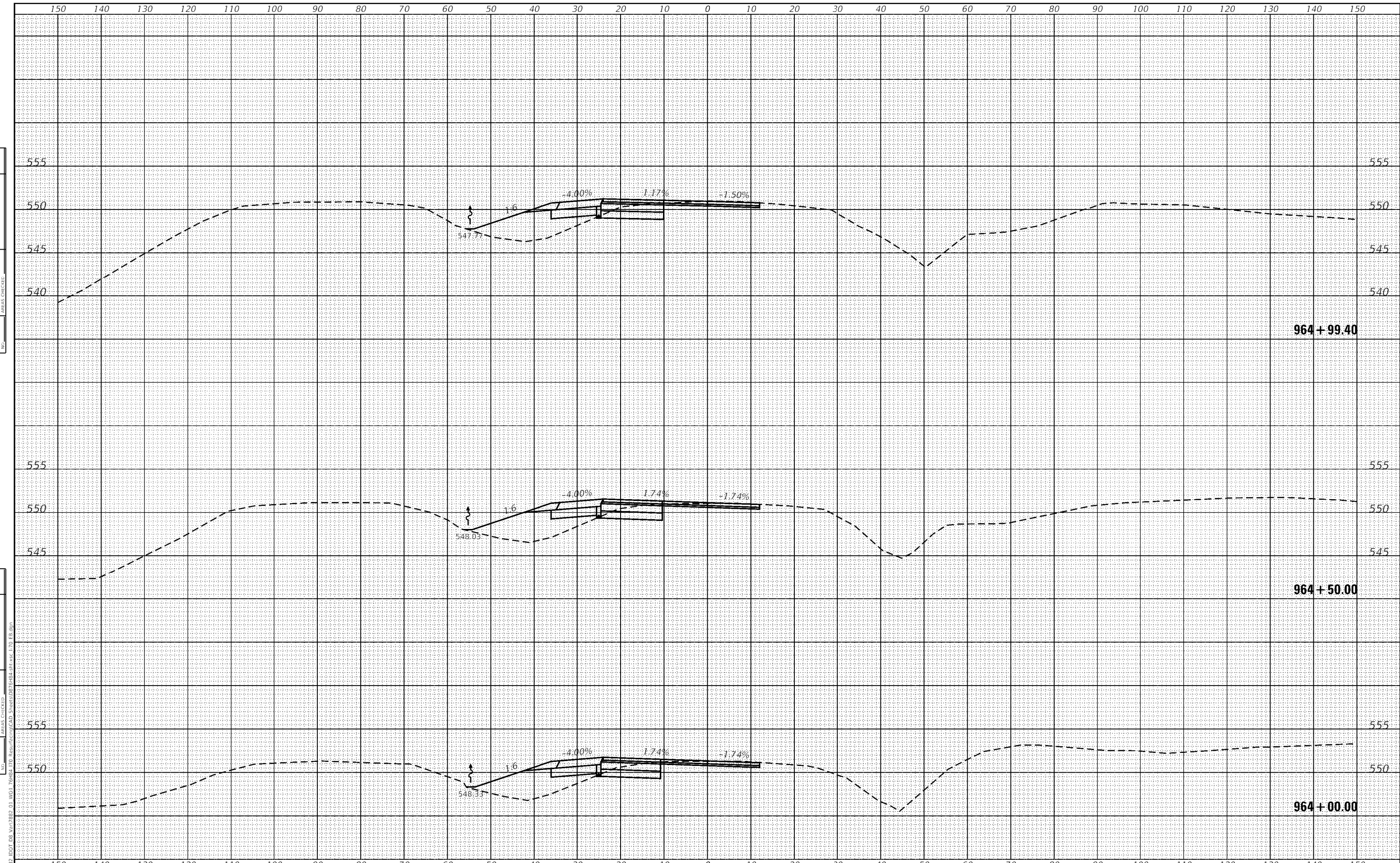
**CROSS SECTIONS
 FAI-70 EAST BOUND**

SCALE: 1" = 10' SHEET OF SHEETS STA. 962+50.00 TO STA. 963+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	173
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

DATE	
BY	
FINAL SURVEY	
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NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
SURVEY	
NOTE BOOK	
TEMPLATE	
AREAS	
AREAS CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers + Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

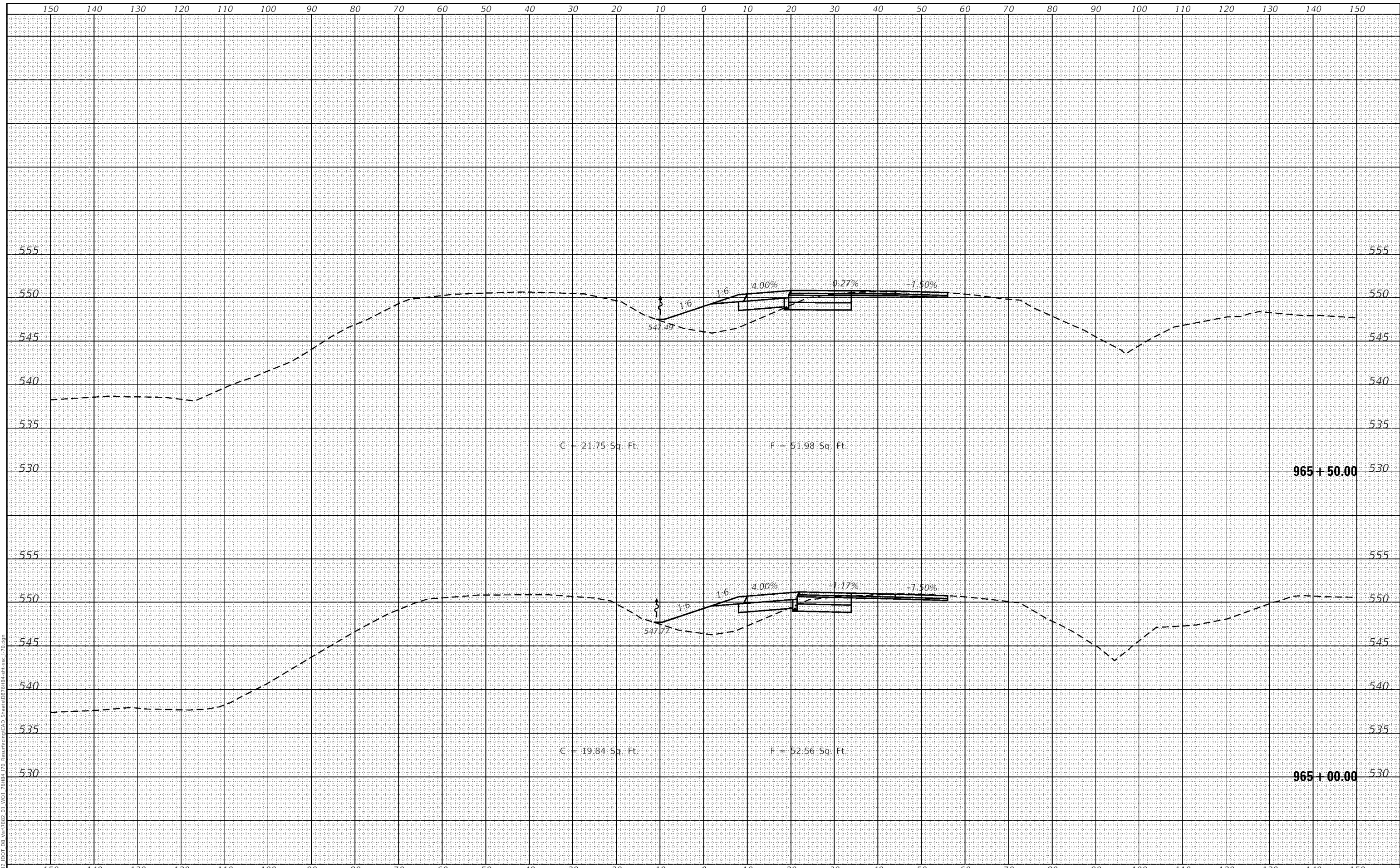
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 FAI-70 EAST BOUND**
 SCALE: 1" = 10' SHEET OF SHEETS STA. 964+00.00 TO STA. 964+99.40

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	174
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQ79(213)	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
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NOTE BOOK	
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AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
AREAS CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.O'BRIEN	REVISED -	
		DRAWN -	M.O'BRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

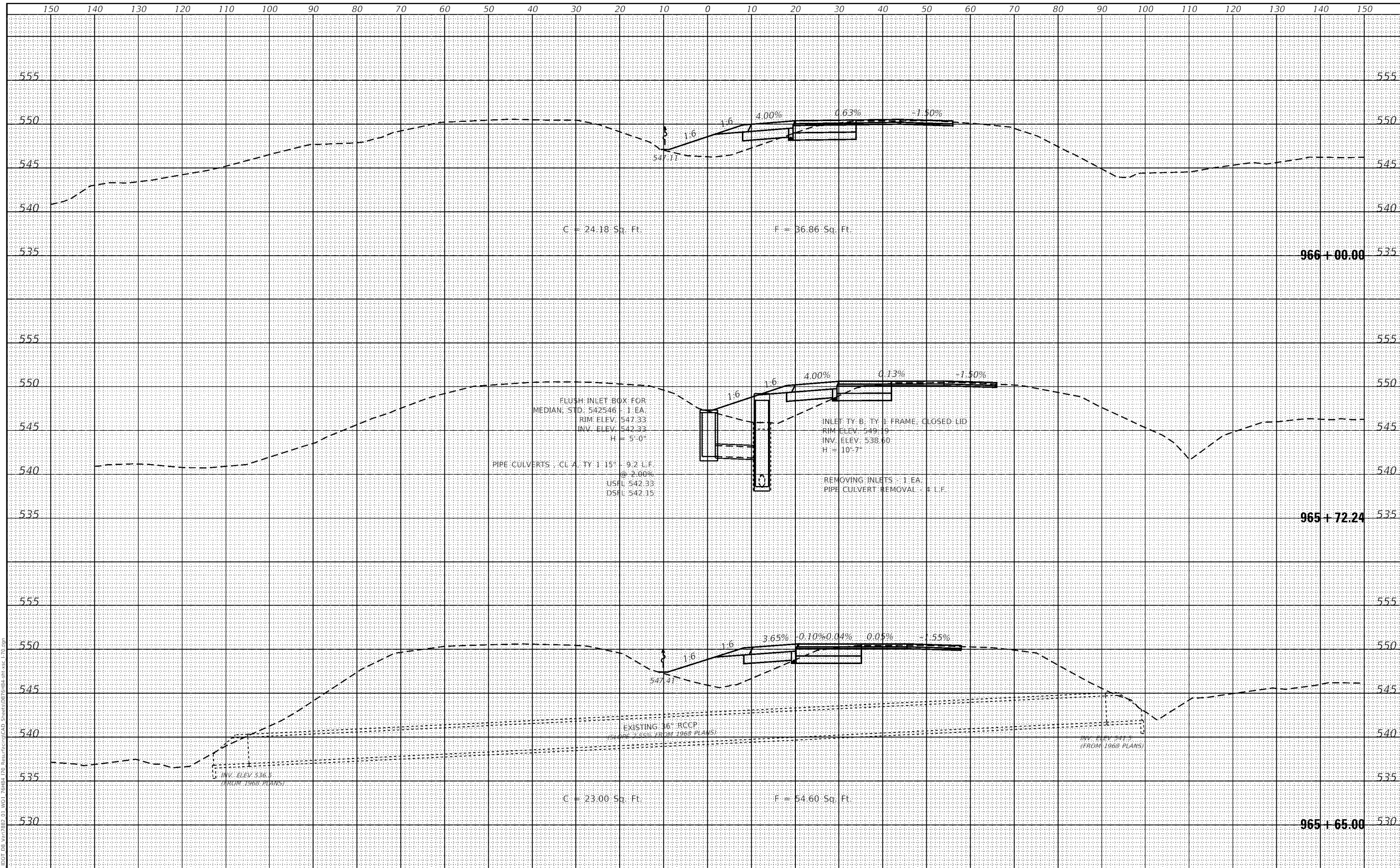
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
FAI-70	
SCALE: 1" = 10'	SHEET OF SHEETS
STA. 965+00.00	TO STA. 965+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	175
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

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

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



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HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien
DESIGNED -	M.OBRIEN
DRAWN -	M.OBRIEN
CHECKED -	
DATE -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

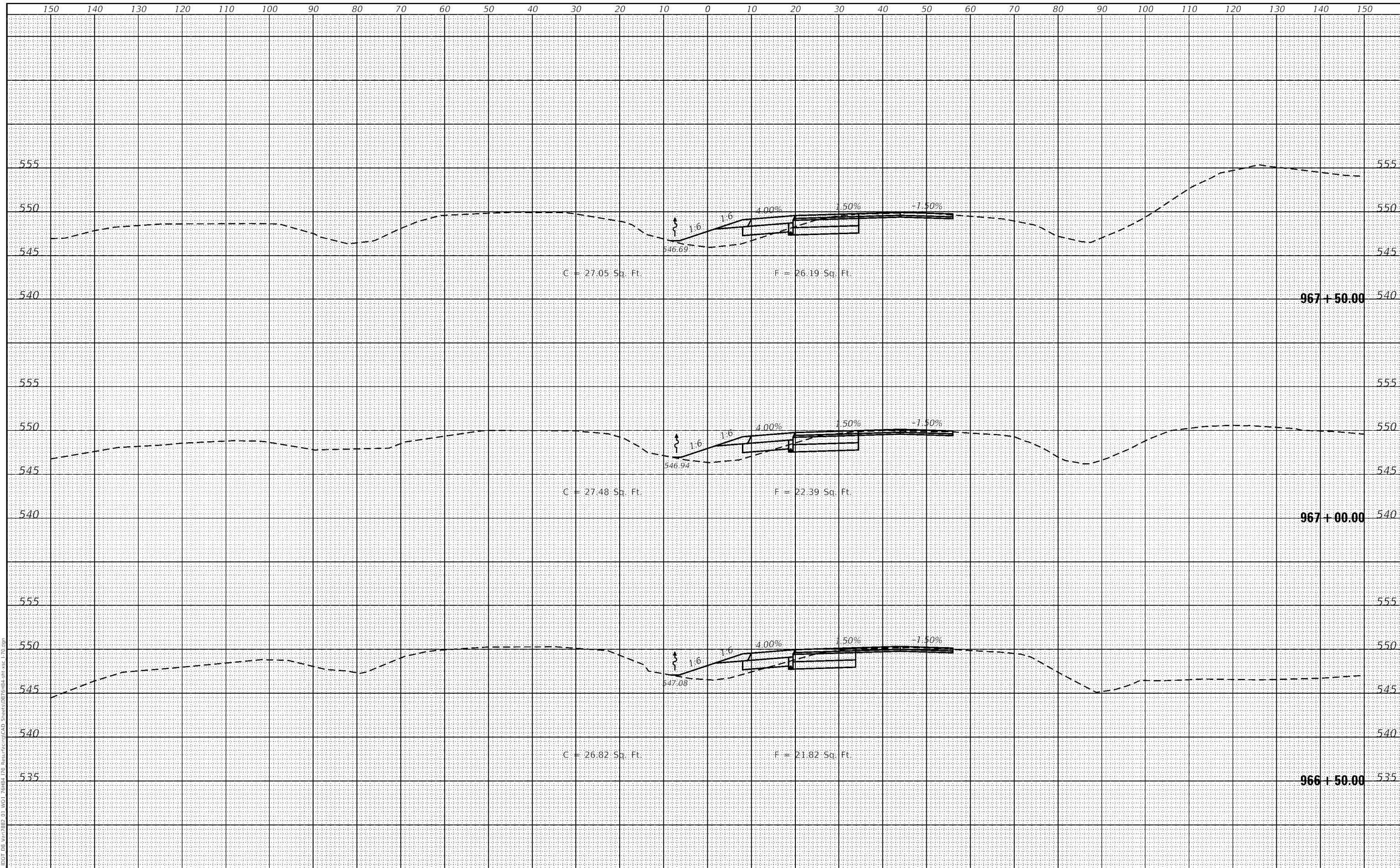
SCALE: 1" = 10'	SHEET	OF	SHEETS	STA. 965+65.00	TO STA. 966+00.00
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**CROSS SECTIONS
 FAI-70**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	176
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

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

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



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = m.obrien	DESIGNED - M.OBRIEN	REVISED -
	DRAWN - M.OBRIEN	REVISED -
PLOT SCALE = 20.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 6/17/2020	DATE -	REVISED -

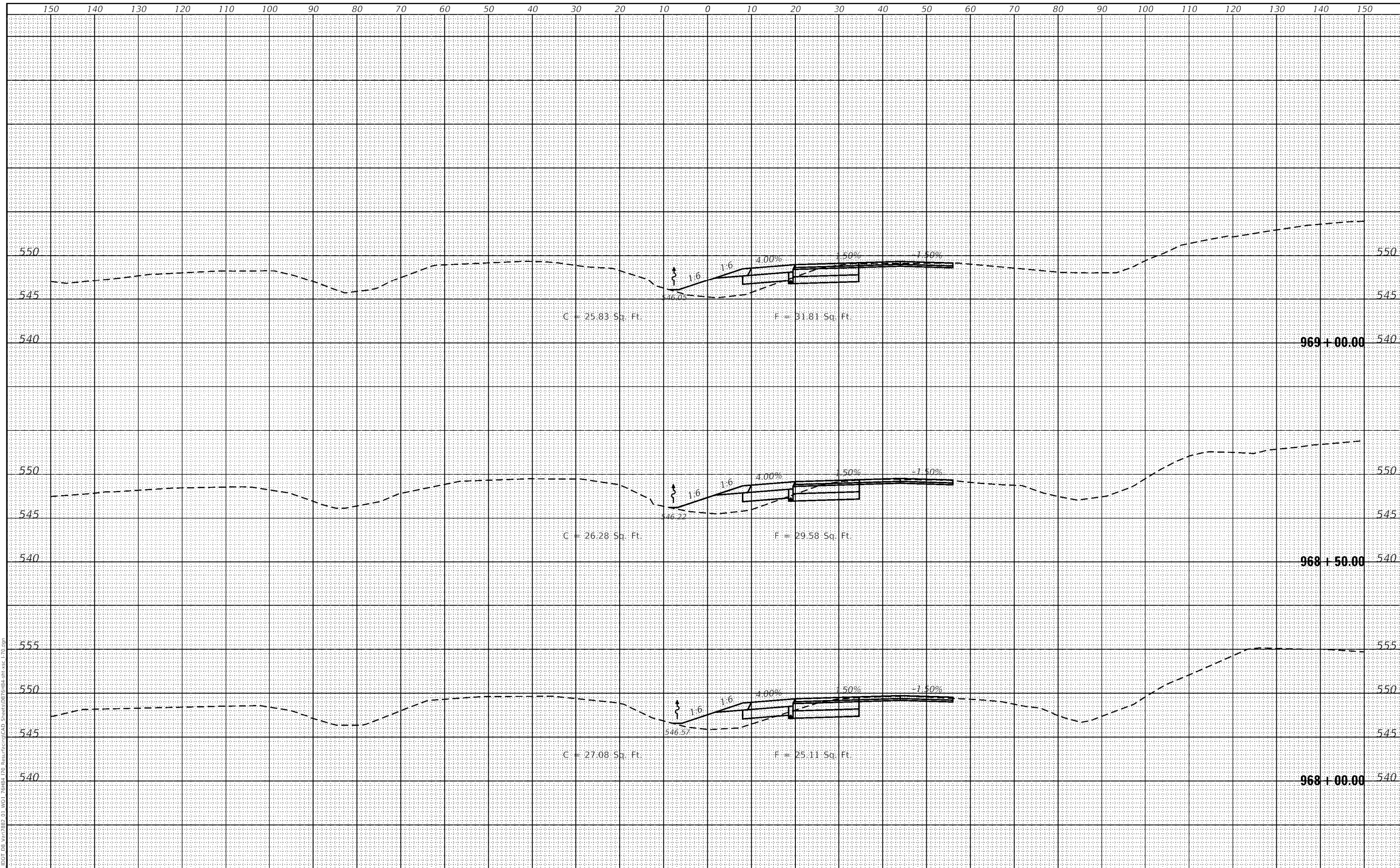
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
FAI-70	
SCALE: 1" = 10'	SHEET OF SHEETS
STA. 966+50.00	TO STA. 967+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	177
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
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ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

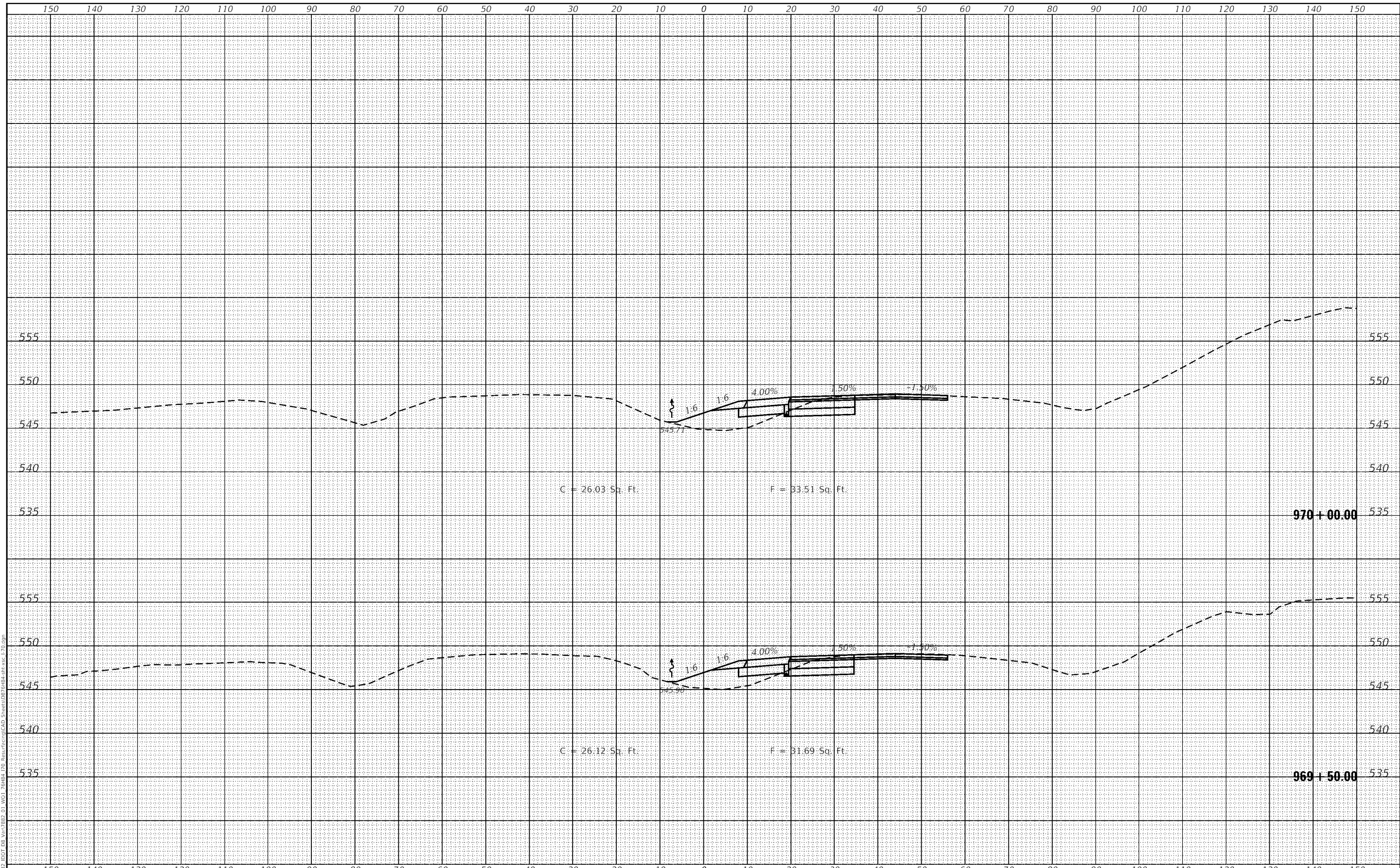
SCALE: 1" = 10'		SHEET OF SHEETS		STA. 968+00.00	TO STA. 969+00.00
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**CROSS SECTIONS
 FAI-70**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	178
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
TEMPLATE	
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AREA'S CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
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AREA'S CHECKED	



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HMG HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
Engineers + Surveyors (618) 526-9611
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.O'BRIEN	REVISED -	
		DRAWN -	M.O'BRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

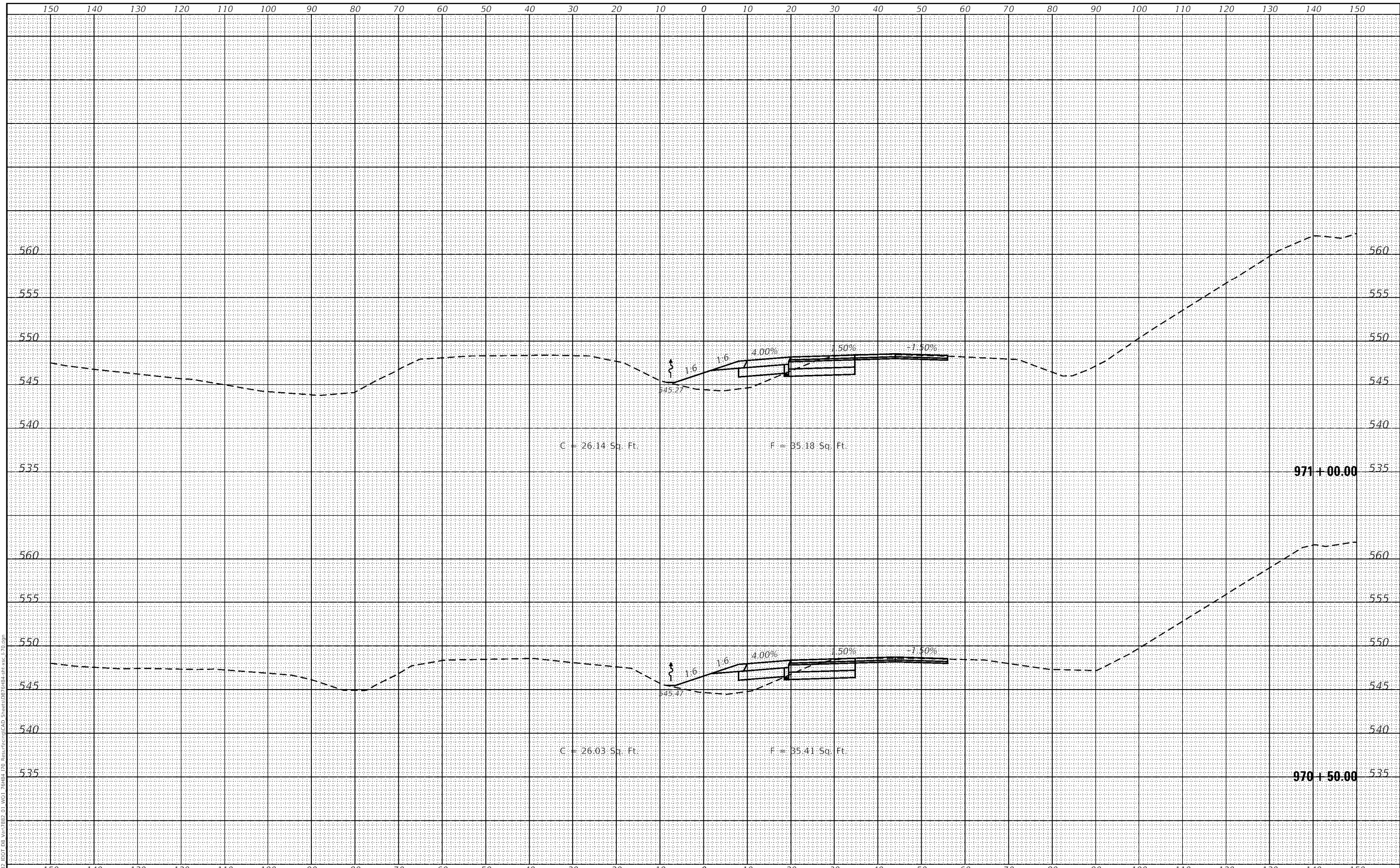
SCALE: 1" = 10'		SHEET	OF	SHEETS	STA. 969+50.00	TO STA. 970+00.00
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CROSS SECTIONS
FAI-70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	179
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
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AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
AREAS CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

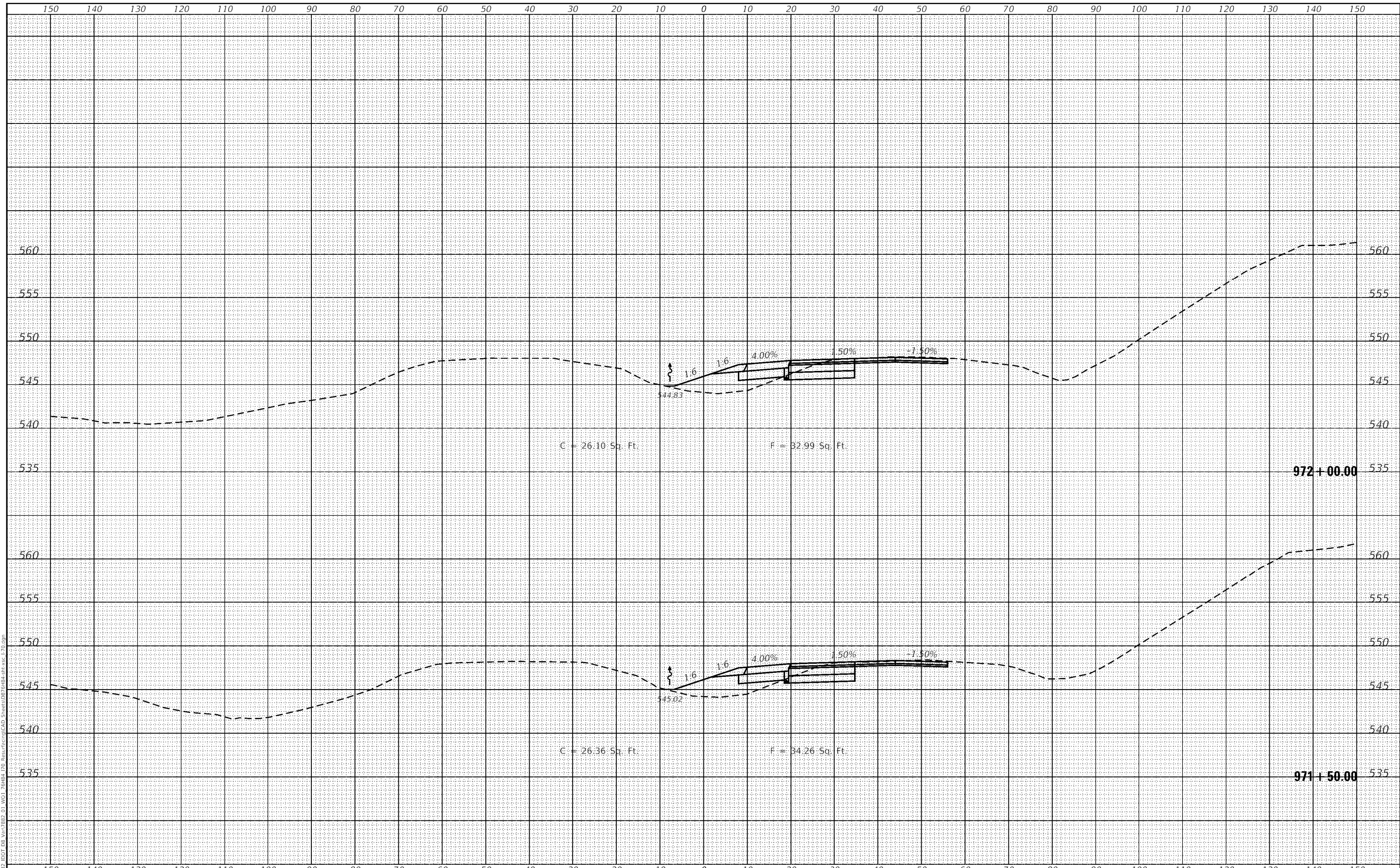
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
FAI-70	
SCALE: 1" = 10'	SHEET OF SHEETS
STA. 970+50.00	TO STA. 971+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	180
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
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AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
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TEMPLATE	
AREAS	
AREAS CHECKED	



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 Engineers • Surveyors (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED - M.OBRIEN	REVISED -
	DRAWN - M.OBRIEN	REVISED -
PLOT SCALE = 20.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 6/17/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

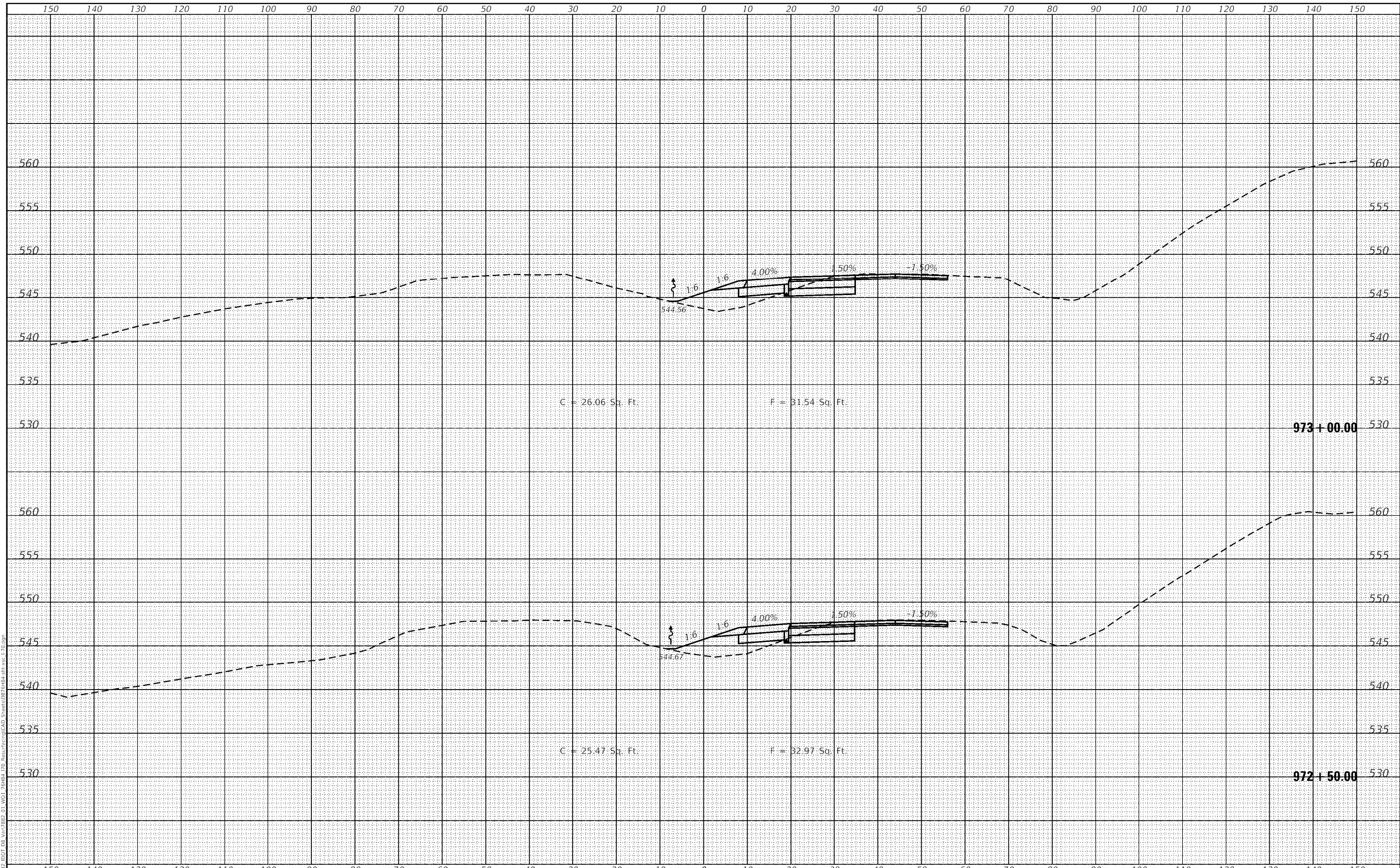
SCALE: 1" = 10'		SHEET	OF	SHEETS	STA. 971+50.00	TO STA. 972+00.00
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**CROSS SECTIONS
 FAI-70**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	181
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

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

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



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		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

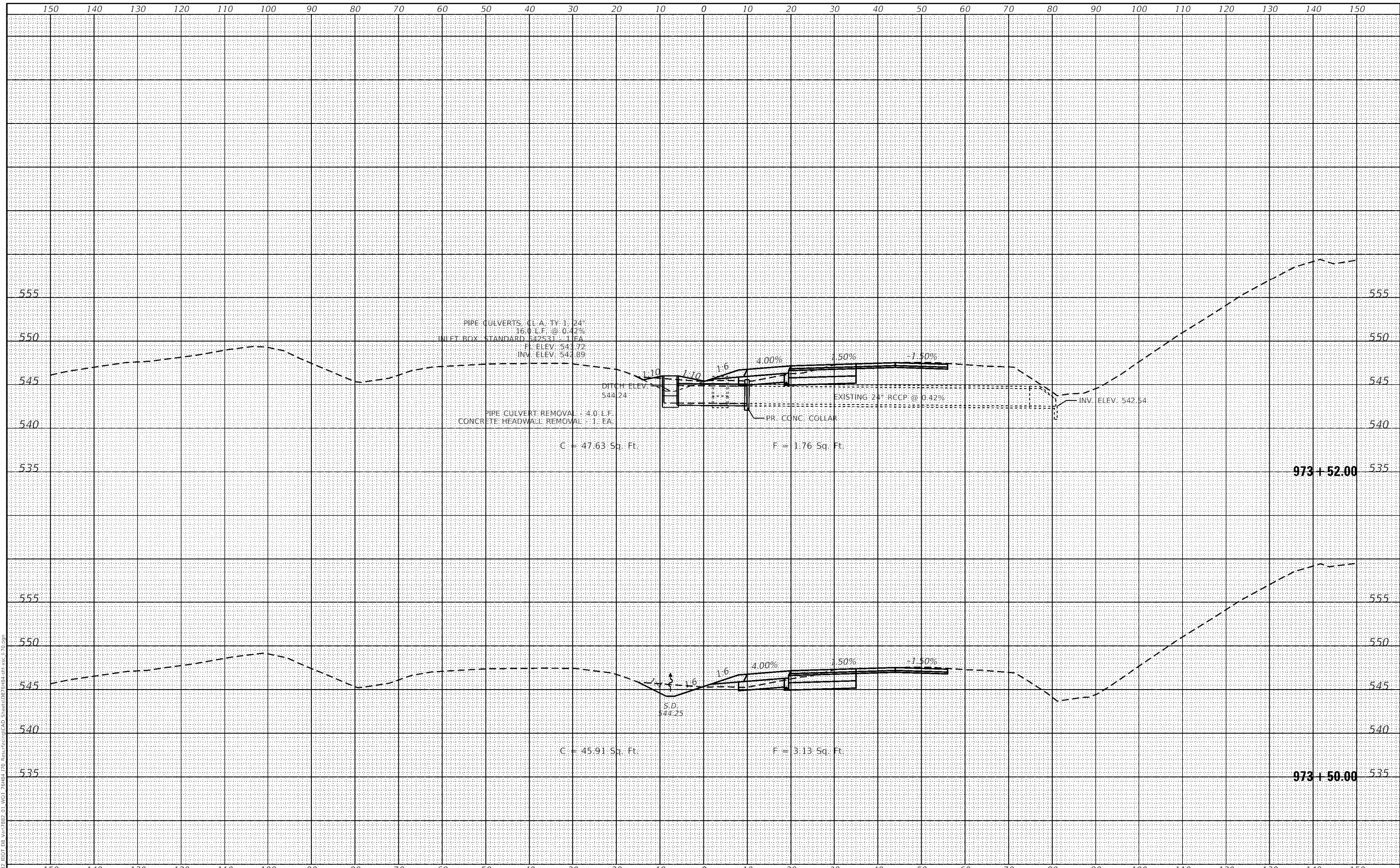
SCALE: 1" = 10'		SHEET	OF	SHEETS	STA. 972+50.00	TO STA. 973+00.00
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**CROSS SECTIONS
 FAI-70**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	182
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

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

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



HMG HMG ENGINEERS, INC.
 9360 HOLY CROSS LANE
 BREESE, ILLINOIS 62230
 (618) 526-9611
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

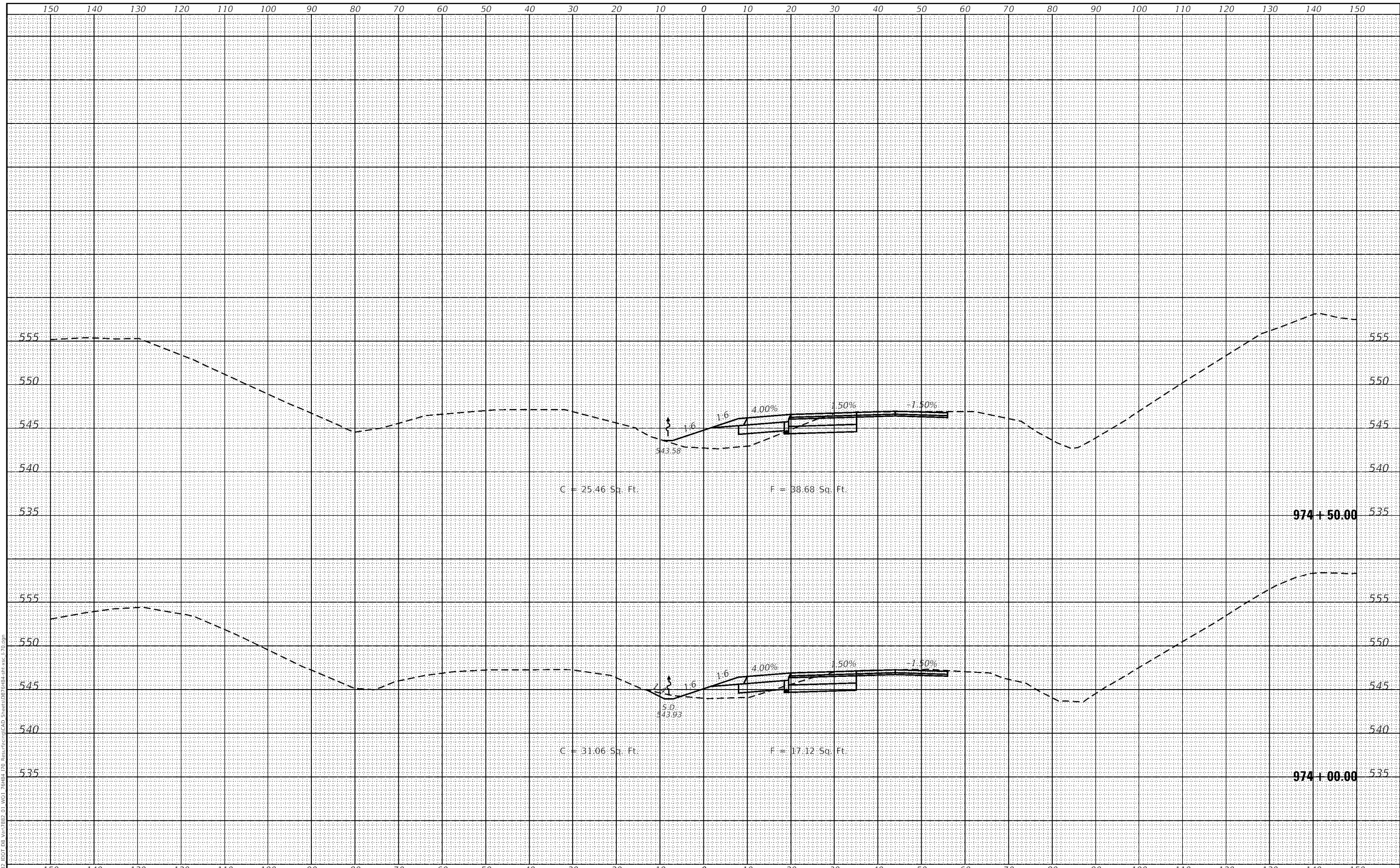
SCALE: 1" = 10'		SHEET OF SHEETS		STA. 973+50.00	TO STA. 973+52.00
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**CROSS SECTIONS
 FAI-70**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	183
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
AREAS CHECKED	



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USER NAME =	mobrien	DESIGNED -	M.OBRIEN	REVISED -	
		DRAWN -	M.OBRIEN	REVISED -	
PLOT SCALE =	20.0000' / 1"	CHECKED -		REVISED -	
PLOT DATE =	6/17/2020	DATE -		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
FAI-70	
SCALE: 1" = 10'	SHEET OF SHEETS
STA. 974+00.00	TO STA. 974+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(10-11)RS-1	MADISON	209	184
CONTRACT NO. 76H84			ILLINOIS FED. AID PROJECT NHPP-YQT9(213)	