

BRIDGE REPLACEMENT - CCS  
BRFN-065-7(39)--39-35

FRANKLIN COUNTY - DESIGN NO. 120

LETTING DATE  
10-15-2019

**LEGEND**

- INTERSTATE HIGHWAY
- PRIMARY HIGHWAY-DIVIDED
- PRIMARY HIGHWAY
- PORTLAND CEMENT CONCRETE ROAD
- ASPHALT ROAD
- BITUMINOUS ROAD
- GRAVEL ROAD
- EARTHEN ROAD
- INTERSTATE HIGHWAY
- UNITED STATES HIGHWAY
- STATE HIGHWAY
- COUNTY HIGHWAY
- RAILROAD
- PIPELINE
- AIRPORT
- HYDROLOGY
- BRIDGE
- STATE BOUNDARY
- COUNTY BOUNDARY
- CORPORATE BOUNDARY
- TOWNSHIP LINE
- SECTION LINE
- ROAD NAMES
- UNINCORPORATED PLACE



PLANS OF PROPOSED IMPROVEMENTS ON THE  
**PRIMARY ROAD SYSTEM**  
FRANKLIN COUNTY  
BRIDGE REPLACEMENT - CCS  
US 65 OVER SQUAW CREEK  
0.2 MILES NORTH OF IA 3

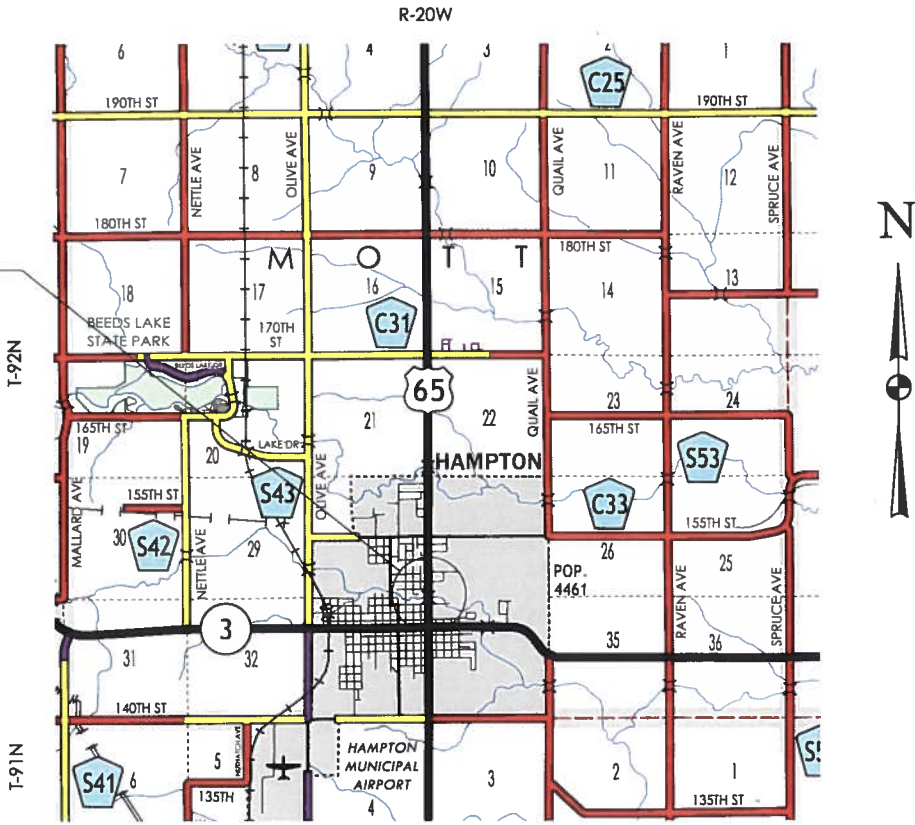
THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

ENGLISH STANDARD BRIDGE PLANS		
STANDARD	ISSUED	REVISED

TOTAL SHEETS	14
PROJECT NUMBER	BRFN-065-7(39)--39-35
R.O.W. PROJECT NUMBER	
PROJECT IDENTIFICATION NUMBER	16-35-065-010

INDEX OF SHEETS	
NO.	DESCRIPTION
1	TITLE SHEET
2-4	DESIGN NO. 120
D.1-W.4	ROADWAY SHEETS

REVISIONS



**PRELIMINARY**  
NOT FOR CONSTRUCTION

**IOWA ONE CALL**  
1-800-292-8989  
www.iowaonecall.com

STANDARD ROAD PLANS
STANDARD ROAD PLANS ARE LISTED ON SHEET NUMBER

DESIGN DATA URBAN			
2021	AADT	5800	V.P.D.
2041	AADT	6600	V.P.D.
2041	DHV	-	V.P.H.
	TRUCKS	7 %	
	Total Design ESALs		

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
1	DANIEL D. KIMBALL	HYDRAULIC DESIGN

**HYDRAULIC DESIGN**

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

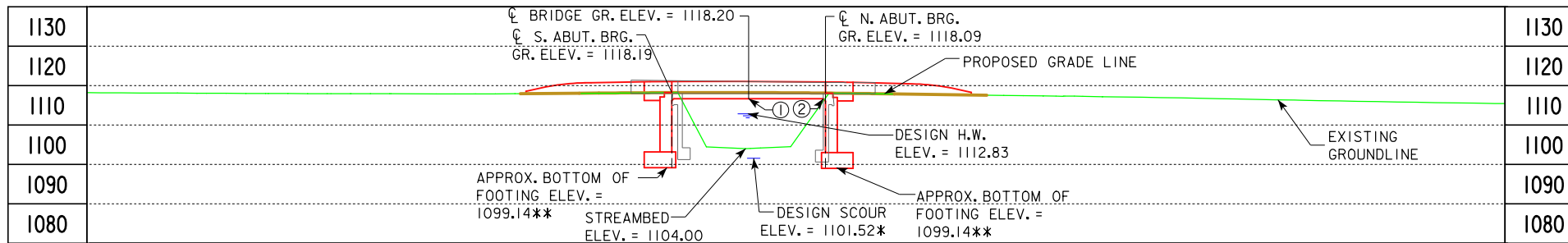
Signature: *Daniel D. Kimball* Date: 7/10/17

Printed or Typed Name: Daniel D. Kimball

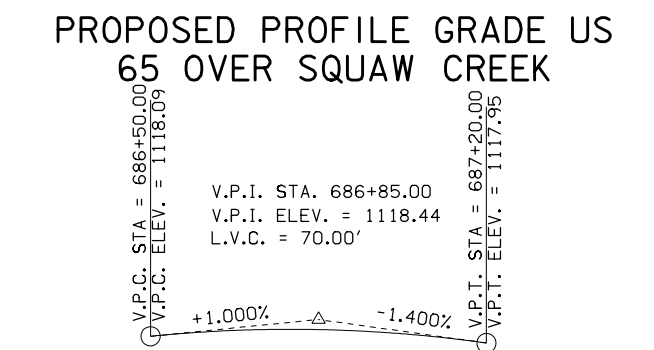
My license renewal date is December 31, 2017

Pages or sheets covered by this seal: Sheet 2

PROJECT DIRECTORY NAME: 3506501016



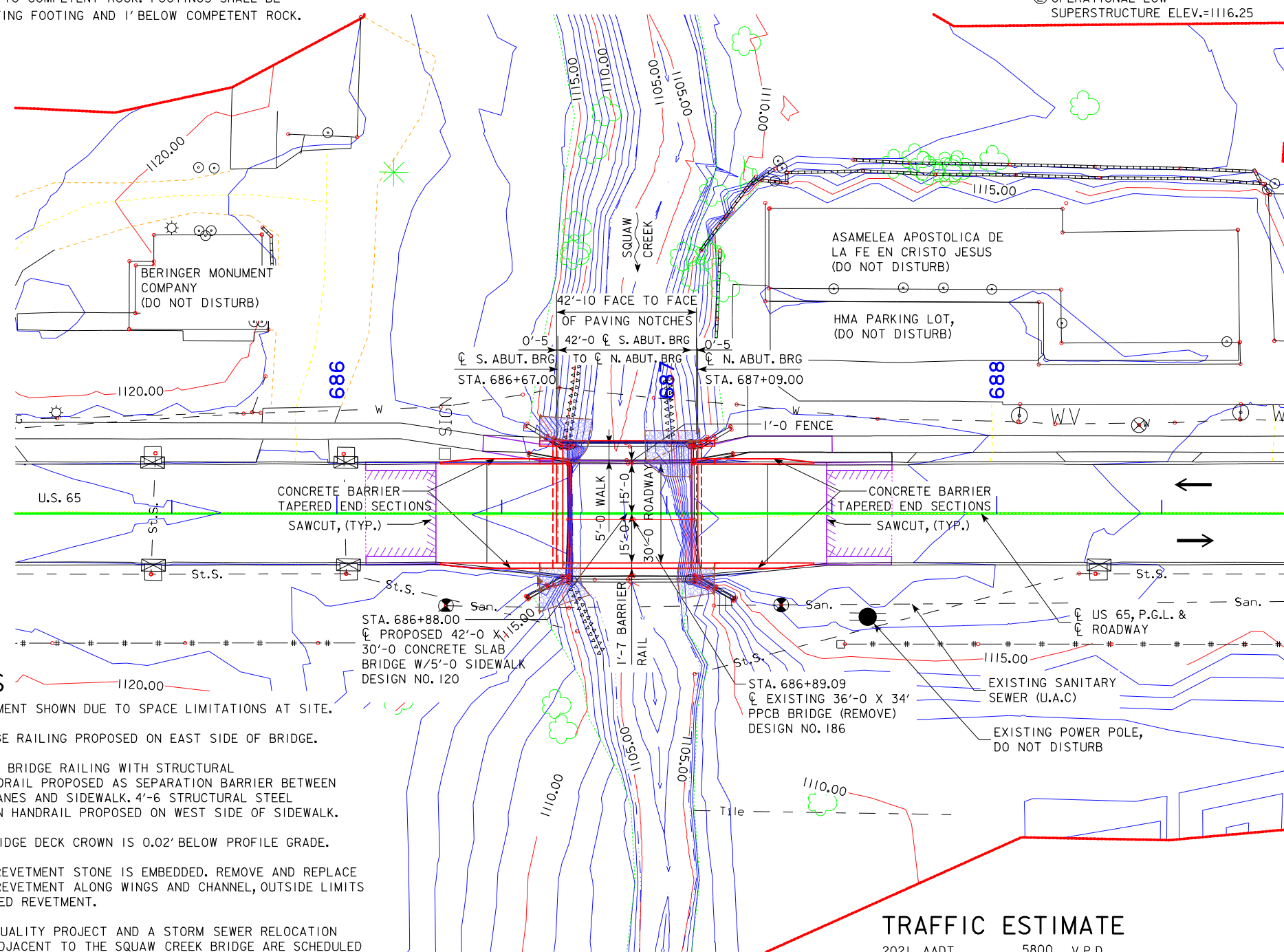
BENCH MARK NO. 600 - IDOT BRASS PLUG TOP CONCRETE BARRIER RAIL AT NORTHEAST CORNER OF BRIDGE OVER SQUAW CREEK. APPROXIMATE 350' SOUTH OF 5TH AVE. N.E. - EAST OF HWY 65 = ELEV. 1120.01.



\*\* ACTUAL FOOTING ELEVATIONS WILL BE DEPENDENT UPON SOILS REVIEW OF THE ELEVATION TO COMPETENT ROCK. FOOTINGS SHALL BE A MINIMUM 6" BELOW EXISTING FOOTING AND 1' BELOW COMPETENT ROCK.

LONGITUDINAL SECTION ALONG  $\phi$  ROADWAY

- ① REGULATORY LOW SUPERSTRUCTURE ELEV.=1116.37
- ② OPERATIONAL LOW SUPERSTRUCTURE ELEV.=1116.25



HYDRAULIC DATA

DRAINAGE AREA = 12.8 SQ. MI.  
 STREAM SLOPE = 8.5 FT./MI.  
 AVG. LOW WATER STAGE = 1106.00

$Q_{50} = 1,860$  CFS  
 STAGE = 1112.83  
 BACKWATER = 0.29 FT.  
 AVG. BRIDGE VELOCITY = 6.7 FPS

$Q_{100} = 2,270$  CFS  
 STAGE = 1113.11  
 BACKWATER = 0.43 FT.  
 AVG. BRIDGE VELOCITY = 8.0 FPS

$Q_{200} = 2,730$  CFS  
 STAGE = 1113.37  
 CALCULATED DESIGN SCOUR = 1101.52\*

$Q_{500} = 3,270$  CFS  
 STAGE = 1114.18  
 CALCULATED CHECK SCOUR = 1100.58\*

ROADWAY OVERTOP 1115.06  
 STA. 689+65.00

\* ACTUAL SCOUR WILL BE DEPENDENT UPON SOILS REVIEW OF THE ELEVATION TO COMPETENT ROCK.

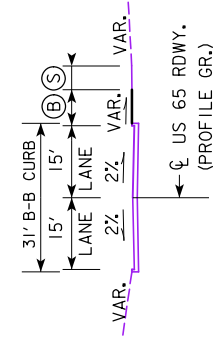
UTILITIES LEGEND:

- San. CITY OF HAMPTON
- St.S. CITY OF HAMPTON
- W CITY OF HAMPTON
- Tile CITY OF HAMPTON
- MID AMERICAN-ELECTRIC
- G — MID AMERICAN-GAS

LOCATION

US 65 OVER SQUAW CREEK  
 T-92N R-20W  
 SECTION 27 & 28  
 MOTT TOWNSHIP  
 FRANKLIN COUNTY  
 CITY OF HAMPTON  
 FHWA NO. 25110  
 BRIDGE MAINT. NO. 3568.3S065  
 LATITUDE +42.74537°  
 LONGITUDE -93.20245°

TYPICAL APPROACH SECTION

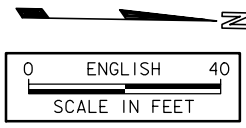


NOTES

- HIGH ABUTMENT SHOWN DUE TO SPACE LIMITATIONS AT SITE.
- TL-4 BRIDGE RAILING PROPOSED ON EAST SIDE OF BRIDGE.
- TEXAS T411 BRIDGE RAILING WITH STRUCTURAL STEEL HANDRAIL PROPOSED AS SEPARATION BARRIER BETWEEN TRAFFIC LANES AND SIDEWALK. 4'-6" STRUCTURAL STEEL PEDESTRIAN HANDRAIL PROPOSED ON WEST SIDE OF SIDEWALK.
- TOP OF BRIDGE DECK CROWN IS 0.02' BELOW PROFILE GRADE.
- CLASS 'E' REVETMENT STONE IS EMBEDDED. REMOVE AND REPLACE EXISTING REVETMENT ALONG WINGS AND CHANNEL, OUTSIDE LIMITS OF PROPOSED REVETMENT.
- A WATER QUALITY PROJECT AND A STORM SEWER RELOCATION PROJECT ADJACENT TO THE SQUAW CREEK BRIDGE ARE SCHEDULED TO OCCUR IN THE FALL OF 2017. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF HAMPTON DURING CONSTRUCTION TO AVOID CONFLICTS BETWEEN PROJECTS.
- BRIDGE AESTHETICS TO BE INCORPORATED DURING FINAL DESIGN.
- ALL DIMENSIONS HORIZONTAL UNLESS OTHERWISE NOTED.

TRAFFIC ESTIMATE

2021 AADT	5800	V.P.D.
2041 AADT	6600	V.P.D.
2041 DHV		V.P.H.
TRUCKS	7	%
TOTAL DESIGN ESALS		

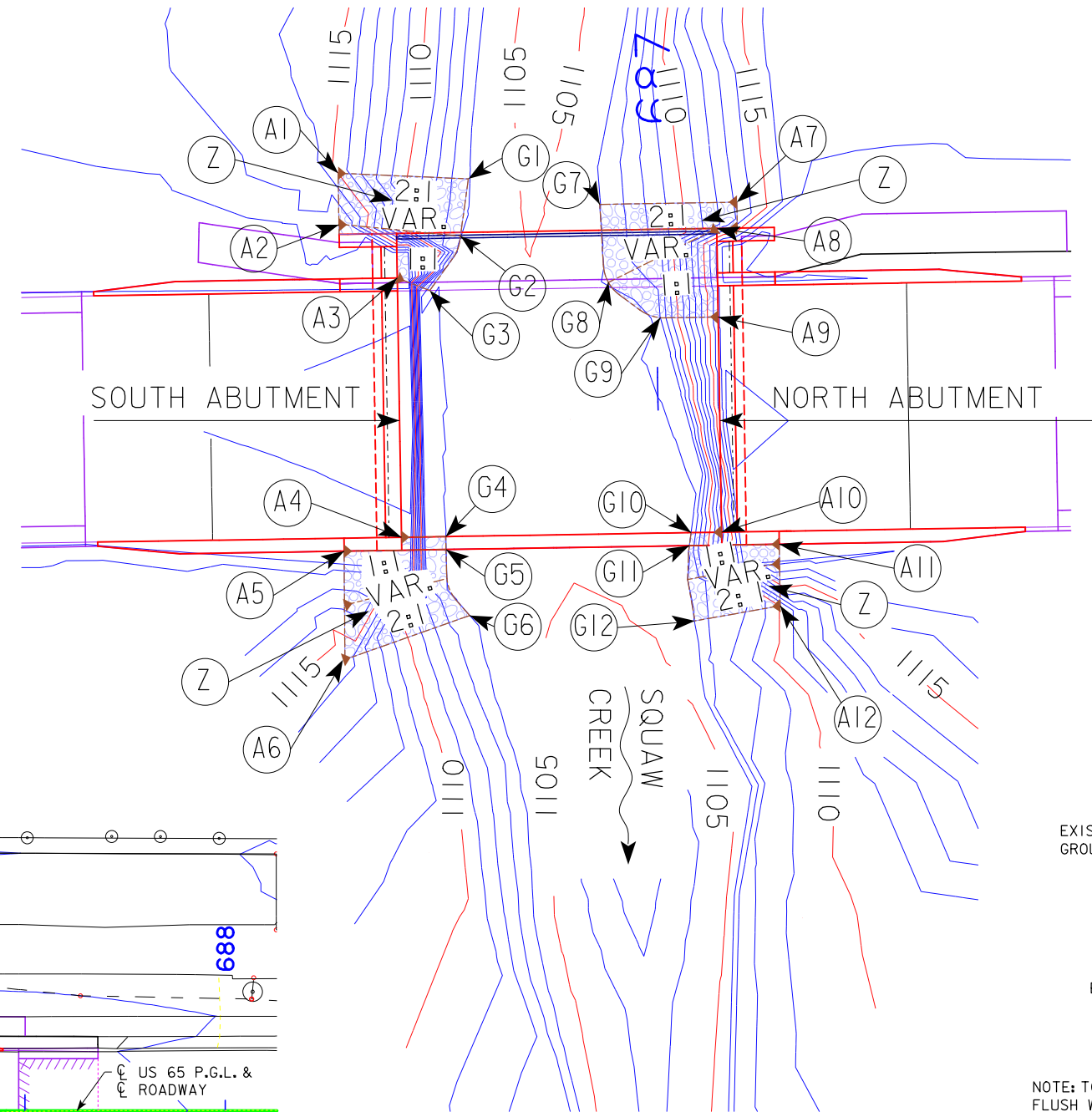


PRELIMINARY  
 DESIGN FOR 0° SKEW  
**42'-0" X 30'-0" NON-STANDARD CONCRETE SLAB BRIDGE**  
 42'-0" SINGLE SPAN  
**W/5'-0" SIDEWALK**  
 SITUATION PLAN  
 STA. 686+88.00 US. 65  
 FRANKLIN COUNTY  
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
 DESIGN SHEET NO. 2 OF 4 FILE NO. 31501 DESIGN NO. 120  
 JULY, 2017

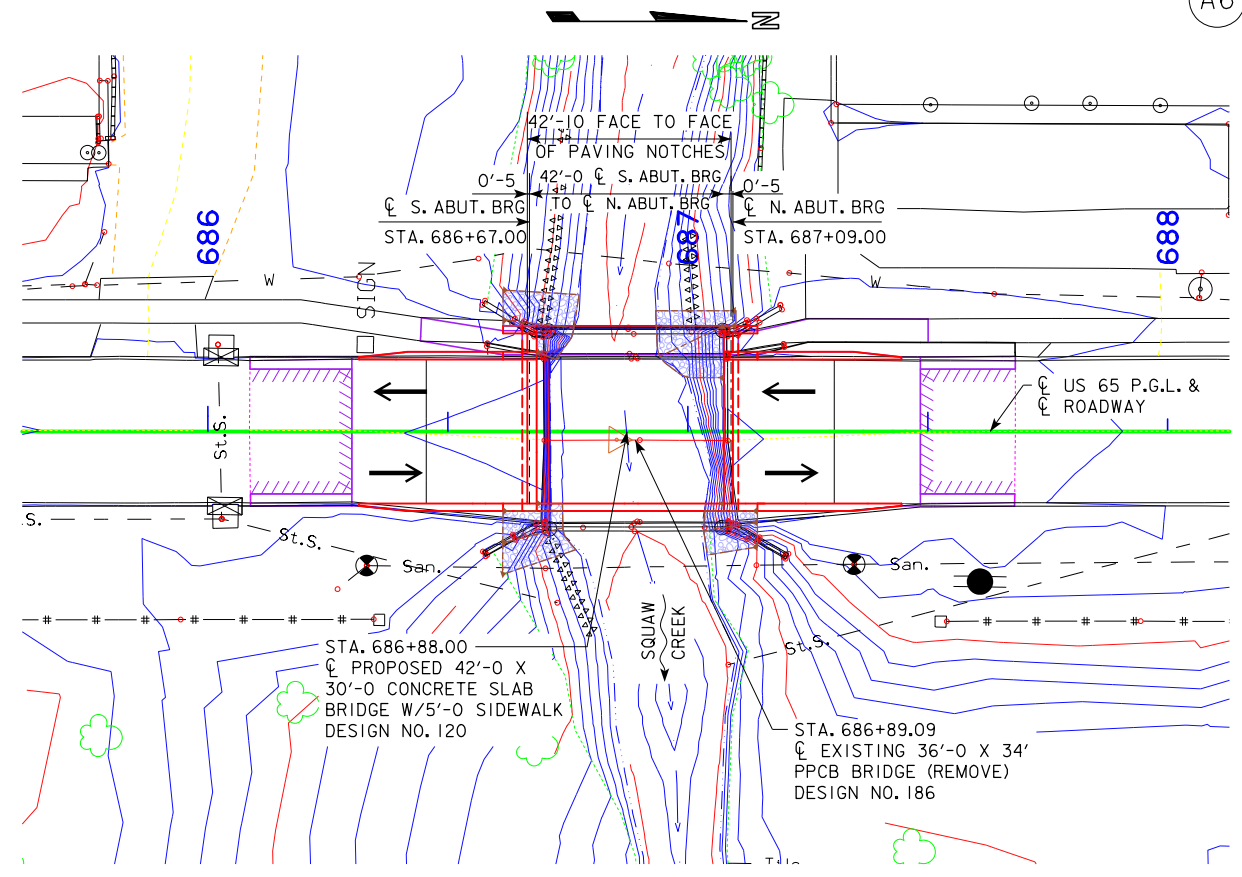
BENCH MARK NO. 600 - IDOT BRASS PLUG TOP CONCRETE BARRIER RAIL AT NORTHEAST CORNER OF BRIDGE OVER SQUAW CREEK, APPROXIMATE 350' SOUTH OF 5TH AVE. N.E. - EAST OF HWY 65. ELEV. 1120.01

EST. BERM ARMORING QUANTITIES			
LOCATION	REVETMENT CL. 'E' (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
BANK PROTECTION - NW SIDE BRIDGE	21	27	15
BANK PROTECTION - NE SIDE BRIDGE	11	14	8
BANK PROTECTION - SW SIDE BRIDGE	16	20	12
BANK PROTECTION - SE SIDE BRIDGE	16	19	12
TOTALS	64	80	47

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.



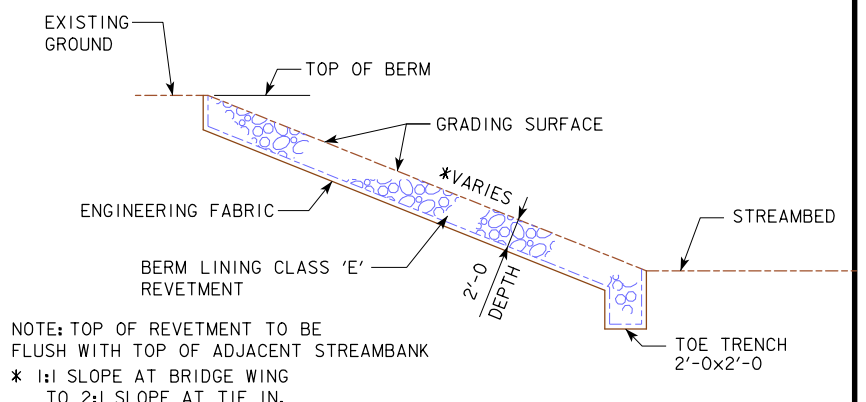
POINTS	SOUTH ABUTMENT			NORTH ABUTMENT		
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.
A1	686+61.50	29.45' LT	1115.00			
A2	686+61.50	23.25' LT	1117.79			
A3	686+68.50	16.58' LT	1116.20			
A4	686+68.50	15.00' RT	1116.23			
A5	686+61.50	16.58' RT	1117.93			
A6	686+61.38	29.79' RT	1114.33			
A7				687+10.00	25.15' LT	1113.20
A8				687+10.00	22.00' LT	1117.56
A9				687+07.50	11.20' LT	1116.23
A10				687+07.50	15.00' RT	1116.11
A11				687+14.50	16.58' RT	1117.77
A12				687+14.50	24.08' RT	1110.15
G1	686+77.35	28.51' LT	1104.00			
G2	686+76.27	21.56' LT	1104.00			
G3	686+72.43	15.00' LT	1104.00			
G4	686+73.90	15.00' RT	1104.00			
G5	686+73.91	16.58' RT	1104.00			
G6	686+76.67	24.66' RT	1104.00			
G7				686+93.31	25.14' LT	1104.00
G8				686+93.44	22.00' LT	1104.00
G9				687+01.00	11.20' LT	1104.00
G10				687+03.78	15.00' RT	1104.00
G11				687+03.58	16.58' RT	1104.00
G12				687+04.08	25.75' RT	1104.00



SITE PLAN

BRIDGE REVETMENT PLAN  
NOT TO SCALE

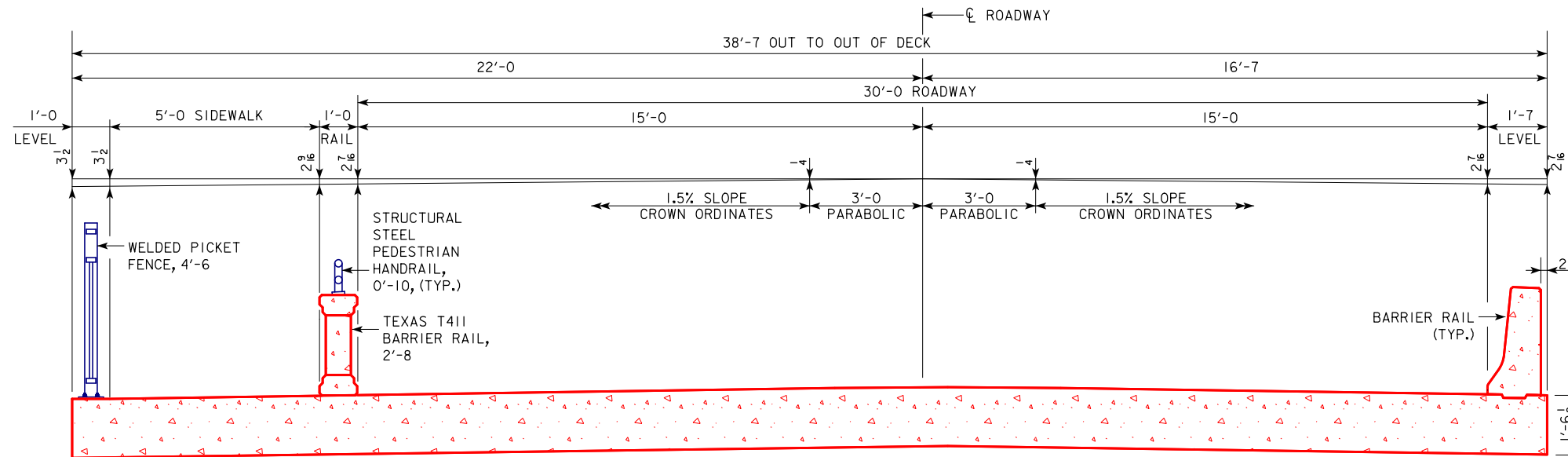
(Z) STREAM BANK PROTECTION CLASS E REVET. (2' THICK. MAX.) UNDERLAIN W/ENGR. FABRIC



TYP. SECTION AT BANK PROTECTION  
NOT TO SCALE

PRELIMINARY  
DESIGN FOR 0° SKEW  
**42'-0" X 30'-0" NON-STANDARD CONCRETE SLAB BRIDGE**  
W/5'-0" SIDEWALK  
SITE PLAN  
STA. 686+88.00 US. 65  
FRANKLIN COUNTY  
IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
DESIGN SHEET NO. 3 OF 4 FILE NO. 31501 DESIGN NO. 120





SECTION NEAR ABUTMENT  
LOOKING NORTH

PRELIMINARY

DESIGN FOR 0° SKEW

42'-0 X 30'-0 NON-STANDARD  
CONCRETE SLAB BRIDGE

42'-0 SINGLE SPAN W/5'-0 SIDEWALK  
TRANSVERSE SECTION

STA. 686+88.00 US. 65 JULY, 2017

FRANKLIN COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
DESIGN SHEET NO. 4 OF 4 FILE NO. 31501 DESIGN NO. 120

### SURVEY SYMBOLS

- IN Storm Sewer Intake
- MH Utility Access (Manhole)
- LIN Miscellaneous Line
- BRG Bridge
- PPA Power Pole Co. 1
- TVP TV Pedestal
- SI Sign
- MIS Miscellaneous
- TPD Telephone Pedestal
- PIP Pipe Culvert
- OUT Tile Outlet
- GDL Guard Rail Steel
- FW Wire Fence
- PLG Location of General Photo
- EP Edge of Paved Roads (ML or SR)
- CON Concrete or A/C Slab
- SNP Unpaved Shoulder
- CU Back of Curb
- GU Gutter In Front of Curb
- ENP Edge Paved Entrance & Park Lot
- ENT Centerline BL of Entrance
- ENU Edge Unpaved Entrance & Parking
- DU Centerline Draw or Stream (Up)
- DIK Centerline of Dike or Dam
- D Centerline Draw or Stream (Down)
- BNK Stream Bank
- EW Edge of Water
- SP Stream Profile
- BLD Building or Foundation
- RET Retaining Walls
- TDC Tree Deciduous
- TEV Evergreen Tree
- SHR Shrub
- SWK Sidewalk
- FWD Wood Fence
- HDG Hedge Row
- LUM Luminaire
- STP Stump
- LP L.P. Tank
- ST1D Storm Sewer Co. 1 - Quality D
- TL1D Telephone Line Co. 1 - Quality D
- GL1D Gas Line Co. 1 - Quality D
- WL1D Water Line Co. 1 - Quality D
- TV1D TV Cable Co. 1 - Quality D
- FO1D Fiber Optic Co. 1 - Quality D
- FO2D Fiber Optic Co. 2 - Quality D
- SA1D Sanitary Sewer Co. 1- Quality D

### UTILITY LEGEND

- MIDAMERICAN-GAS  
Contact Name : jeremy sorensen  
Contact Phone: 319-291-4728  
Contact Email: JJSorensen@midamerican.com
- CITY OF HAMPTON  
Contact Name : Trev Murphy  
Contact Phone: 641-456-2124  
Contact Email:
- San.

### PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING		
Design Color No.		
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

### PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

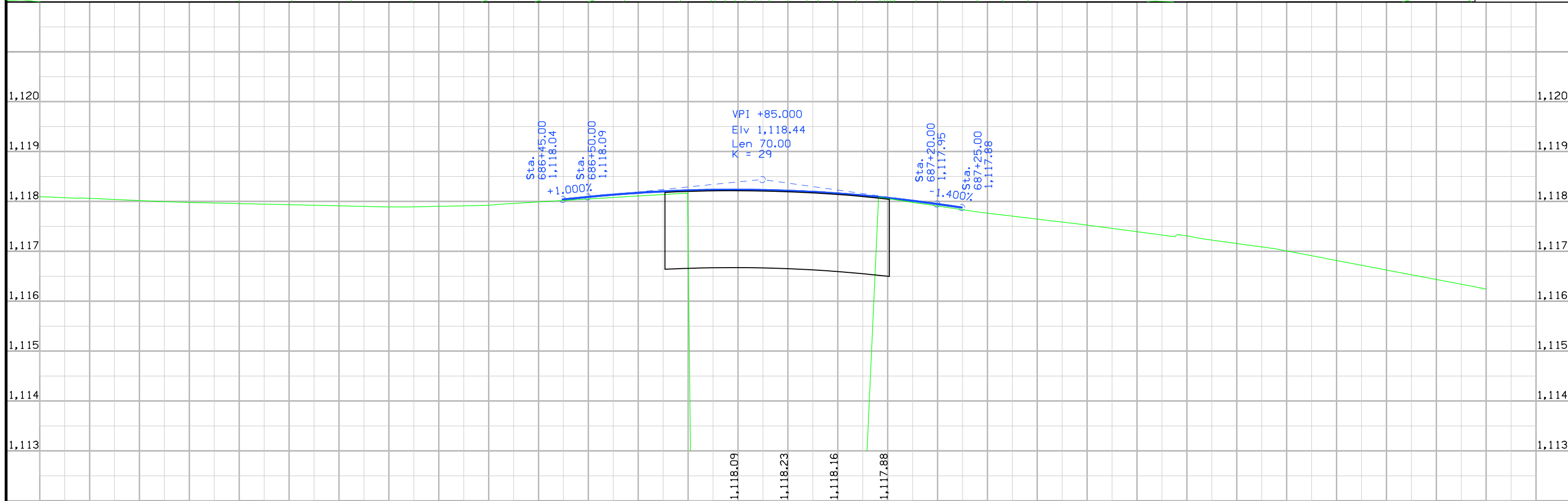
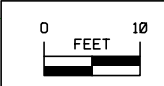
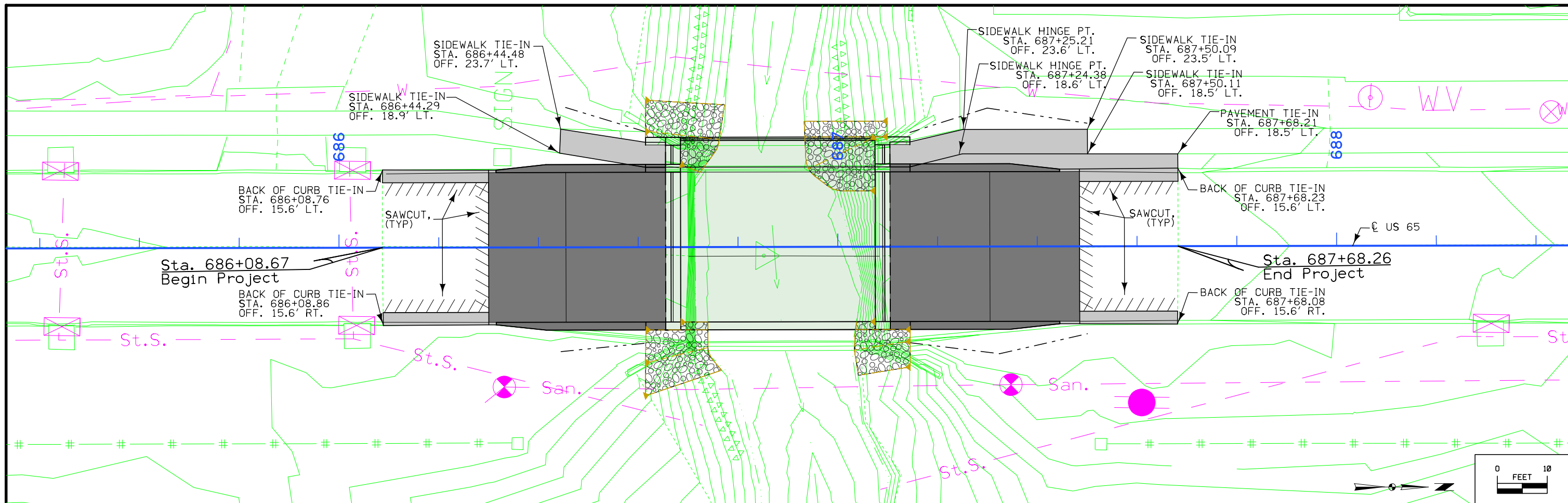
### RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- Access Control
- Property Line



## PLAN AND PROFILE

(COVERS SHEET SERIES D, E, F, & K)



## Survey Information

Franklin County  
BRFN-65-7(39)—39-35  
U.S. 65 Bridge over Squaw Creek  
PIN 16-35-065-010  
SAP-0864

### General Information

Measurement units for this survey are US survey feet. This survey is for the replacement of the U.S. 65 Bridge over Squaw Creek.

### Vertical Control

Vertical datum for this survey is relative to NAVD88. A level loop was run from BM #501 (IADOT Project BFR-065-7(35)—38-010 Franklin County Bridge Replacement over Spring Creek) through the project benchmarks and returned to BM # 501. The loop error met 3rd Order accuracy and the error was distributed proportionately among the project bench marks.

### Horizontal Control

(Iowa Regional Coordinate System)  
The project coordinate system for this survey is the Iowa Regional Coordinate System (IaRCS) Zone 04 (U.S. Survey Feet) Control Point SC11 from IADOT Project BFR-065-7(35)—38-010 Franklin County Bridge Replacement over Spring Creek was used as a base station to establish the horizontal control for this project.

### Alignment Information

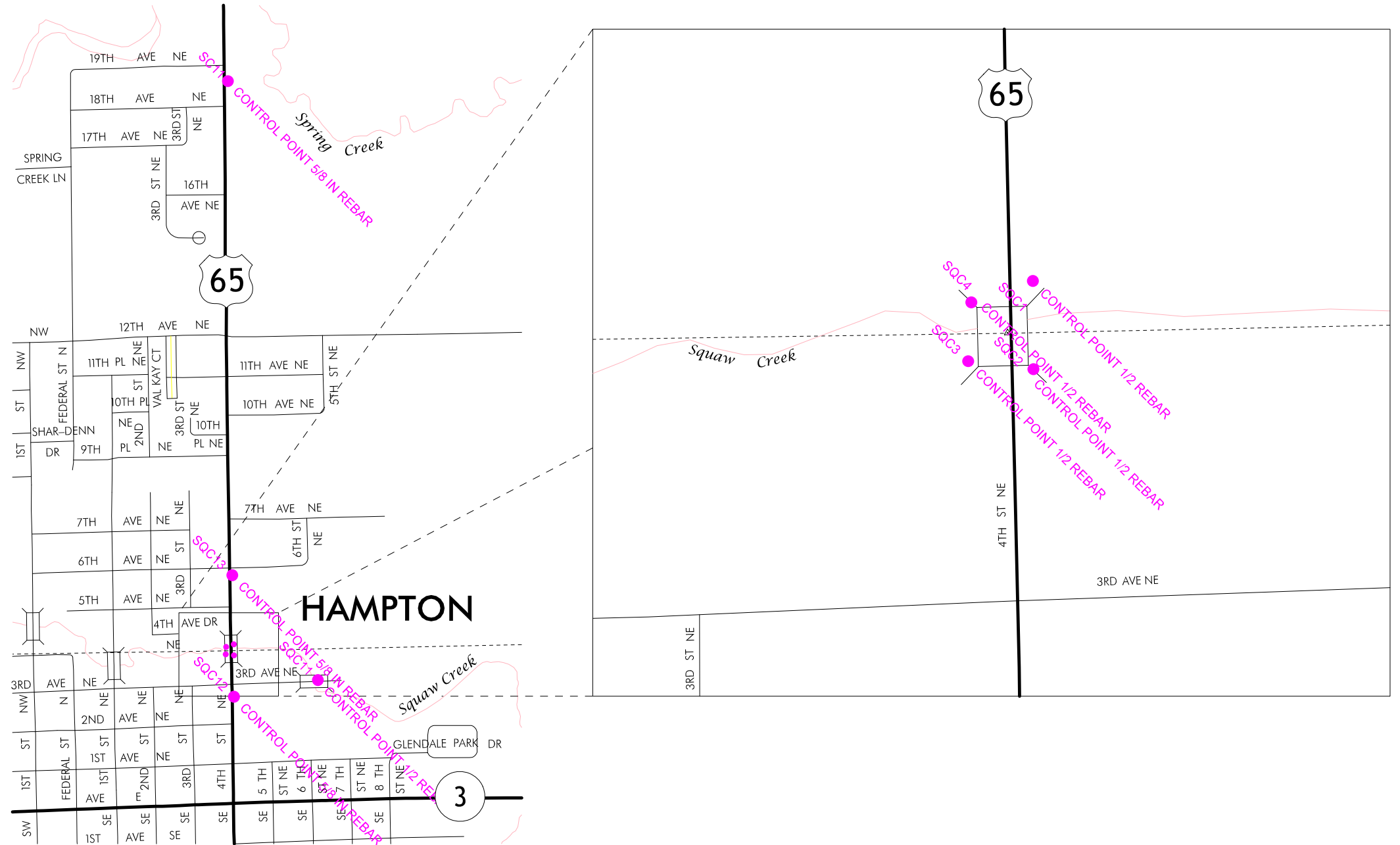
The horizontal alignment for this survey is a retrace of As-built Plans No. STP-065-7(33)-2C-35. Survey stationing was equated to the plan PI at STA 680+56.31 and run ahead without equation throughout the survey.

## Vertical Control

Feature	Elevation	Description
BM501	1093.695	Cut 'X' top southwest corner barrier railing - Hwy 65 bridge over Spring Creek
BM600	1120.005	IDOT brass plug top concrete barrier rail at northeast corner of bridge over Squaw Creek, approximately 350' south of 5th Ave. N.E. - east side of Hwy 65
BM601	1119.380	N.E. bolt hydrant at northwest corner 5th Ave. N.E. and Hwy 65
BM602	1121.850	Bolt hydrant at northwest corner 3rd Ave. N.E. and Hwy 65

## CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) EPOCH 2013.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 4

Coordinate listing from next sheet will be used with 1aRTN for monument recovery. No other reference ties are given.



# HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2013.00

VERT. DATUM: NAVD88

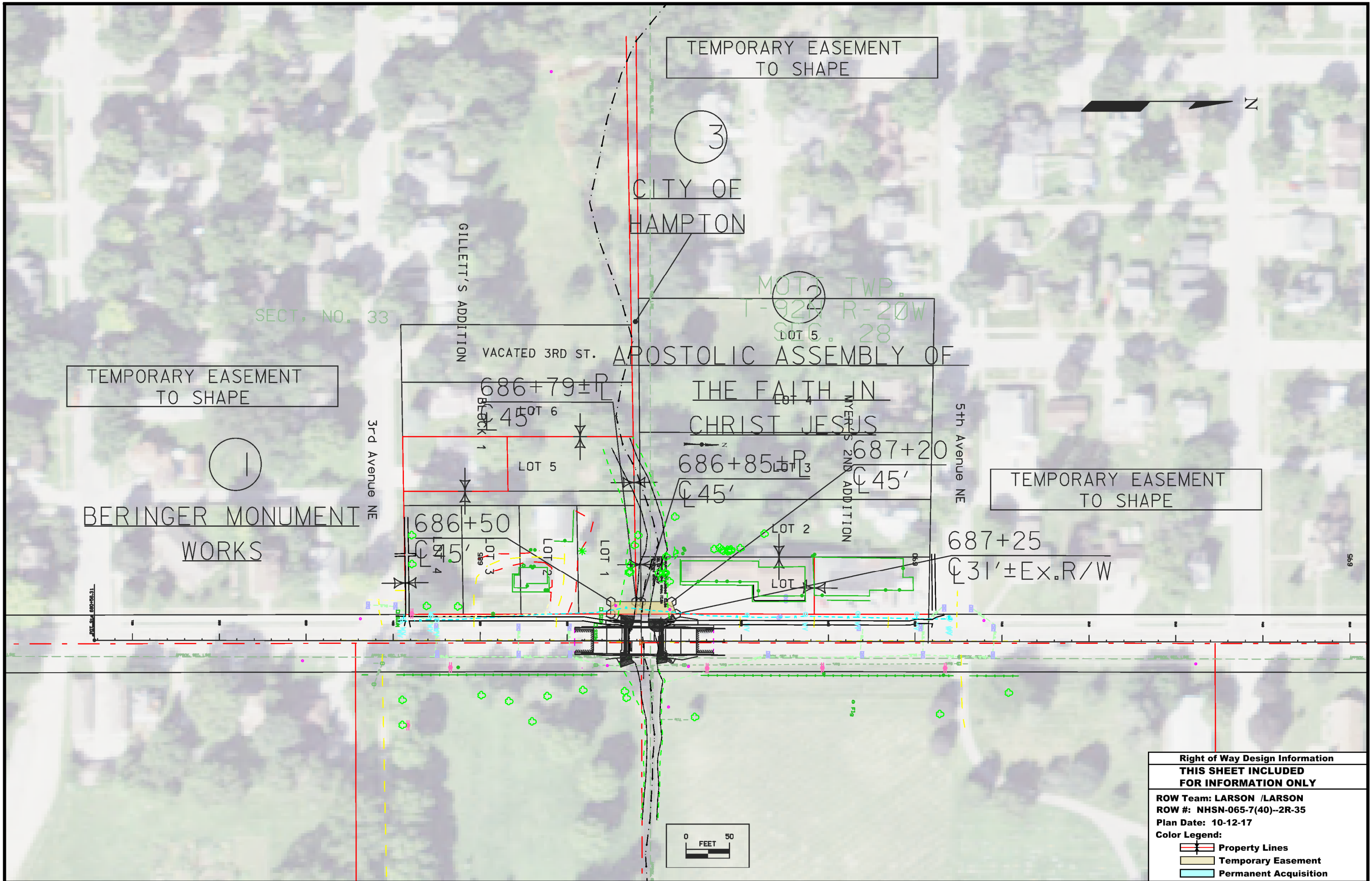
Ia. Regional Coordinate System Zone 4

Point Name	Northing	Easting	Elevation	Feature Definition	Description
SC11	8686327.491	14938057.340	1089.580	CP	Control point 5/8" rebar on the easterly side of Highway 65 approximately 130' southerly of the centerline of 19th Avenue NE, 20.9' easterly of the back of curb on Highway 65 and 18.3' southerly of corner of driveway.
SQC1	8681568.103	14938107.700	1116.540	CP	Control point 1/2" rebar at the Northeast corner of bridge on Highway 65 over Squaw Creek, 12.8' easterly of back of curb and 19.6' northeasterly of end of wing wall.
SQC2	8681474.878	14938108.310	1117.080	CP	Control point at the southeast corner of bridge on Highway 65 over Squaw Creek, 11.5' easterly of the back of curb and 12.2' southeasterly of the end of wing wall.
SQC3	8681483.308	14938039.380	1115.960	CP	Control point 1/2" rebar at the southwest corner of the bridge on Highway 65 over Squaw Creek, 17.1' westerly of back of curb and 20.5' southwesterly of end of wing wall.
SQC4	8681545.498	14938042.650	1116.040	CP	Control point 1/2" rebar at the northwest corner of the bridge on Highway 65 over Squaw Creek, 14.2' southwesterly of the corner of walk and the corner of driveway and 14.9' westerly of the end of the wing wall.
SQC11	8681265.950	14938818.040	1110.380	CP	Control point 1/2" rebar at the northeast corner of the bridge on Cemetery Drive over Squaw Creek, 18.7' northerly of the north edge of Cemetery Drive and 15.8' northeasterly of the northeast corner of the wing wall.
SQC12	8681124.732	14938108.850	1125.710	CP	Control point 5/8" rebar in front of the house at 221 4th Street NE, 7.8' easterly of the back of curb and 36.6' northwesterly of the southwesterly corner of the house at 221 4th Street.
SQC13	8682151.691	14938094.520	1124.680	CP	Control point 5/8" rebar at the southeasterly corner of Highway 65 and 6th Avenue NE, 9.9' easterly of the back of curb on Highway 65 and 35.9' southerly of cross nails in power pole on the south side of 6th Avenue NE.

**ALIGNMENT COORDINATES**

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
ML065	U.S. Highway 65																		
ML0651		680+56.31	8680884.53	14938089.24															
ML0652		700+62.73	8682890.69	14938057.25															





TEMPORARY EASEMENT  
TO SHAPE



3

CITY OF  
HAMPTON

MOTZ TWP.  
T-924 R-20W  
S16.28  
LOT 5

SECT, NO. 33

GILLETT'S ADDITION

VACATED 3RD ST.

APOSTOLIC ASSEMBLY OF

TEMPORARY EASEMENT  
TO SHAPE

1

BERINGER MONUMENT  
WORKS

3rd Avenue NE

686+79±P

LOT 6

LOT 5

686+85±P

LOT 3

MYERS 2ND ADDITION

687+20

LOT 2

5th Avenue NE

TEMPORARY EASEMENT  
TO SHAPE

686+50

LOT 4

LOT 3

LOT 1

LOT 2

LOT 1

687+25

LOT 1

31'± Ex. R/W

569

<b>Right of Way Design Information</b>	
<b>THIS SHEET INCLUDED FOR INFORMATION ONLY</b>	
ROW Team: LARSON /LARSON	
ROW #: NHSN-065-7(40)-2R-35	
Plan Date: 10-12-17	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



**LINE STYLE LEGEND OF CROSS SECTION SHEETS (ROAD)**

- - - - - - Existing Ground Line
- Proposed Template
- Proposed Topsoil Placement
- - - - - - Additional Topsoil Removal
- Subgrade Treatment
- - - - - Granular Shoulder
- Pavement
- - - - - - Existing Pipe\RCB
- Proposed Pipe\RCB
- Proposed Dike
- All Elements Associated with Proposed Entrances

**LINE STYLE LEGEND OF CROSS SECTION SHEETS (SOILS)**

- TS——— Topsoil (Class 10)
- Slope Dressing Only
- CL 10——— Class 10 Materials
- SEL L0——— Select Loams And Clay-Loams
- SEL SA——— Select Sand
- UNS A——— Unsuitable Type A Disposal
- UNS B——— Unsuitable Type B Disposal
- UNS C——— Unsuitable Type C Disposal
- SHALE——— Shale
- WASTE——— Waste
- B&W LS——— Broken and Weathered Rock
- ROCK——— Solid Rock
- BLDRS——— Boulders

Note: All layer lines and descriptions identify layers above the line.

Note: Vertical or near vertical lines connecting soil layers at edges of cross sections are only for the purpose of calculating template quantities and do not depict soil stratification.

**SYMBOL LEGEND OF CROSS SECTION SHEETS**

- Existing  
ROW  
|  
Existing Right-of-Way Limit
- Proposed  
ROW  
|  
Proposed Right-of-Way Limit
- Temporary  
ROW  
|  
Temporary Right-of-Way Limit

**CROSS SECTION  
LEGEND AND SYMBOL  
INFORMATION SHEET**

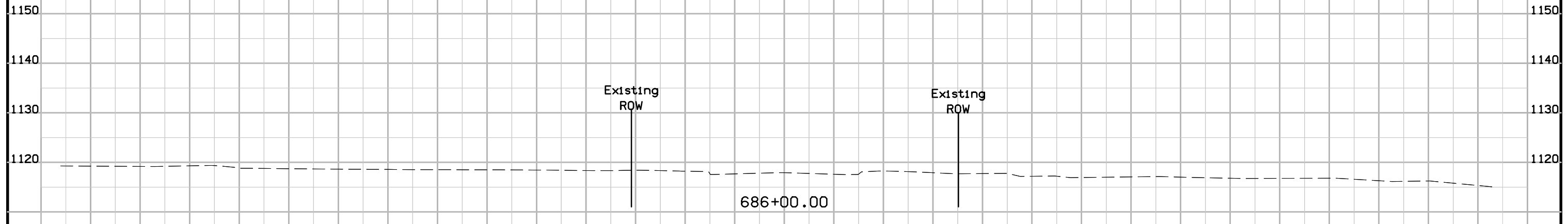
(COVERS SHEET SERIES W, X, Y, & Z)



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US 65

Preliminary

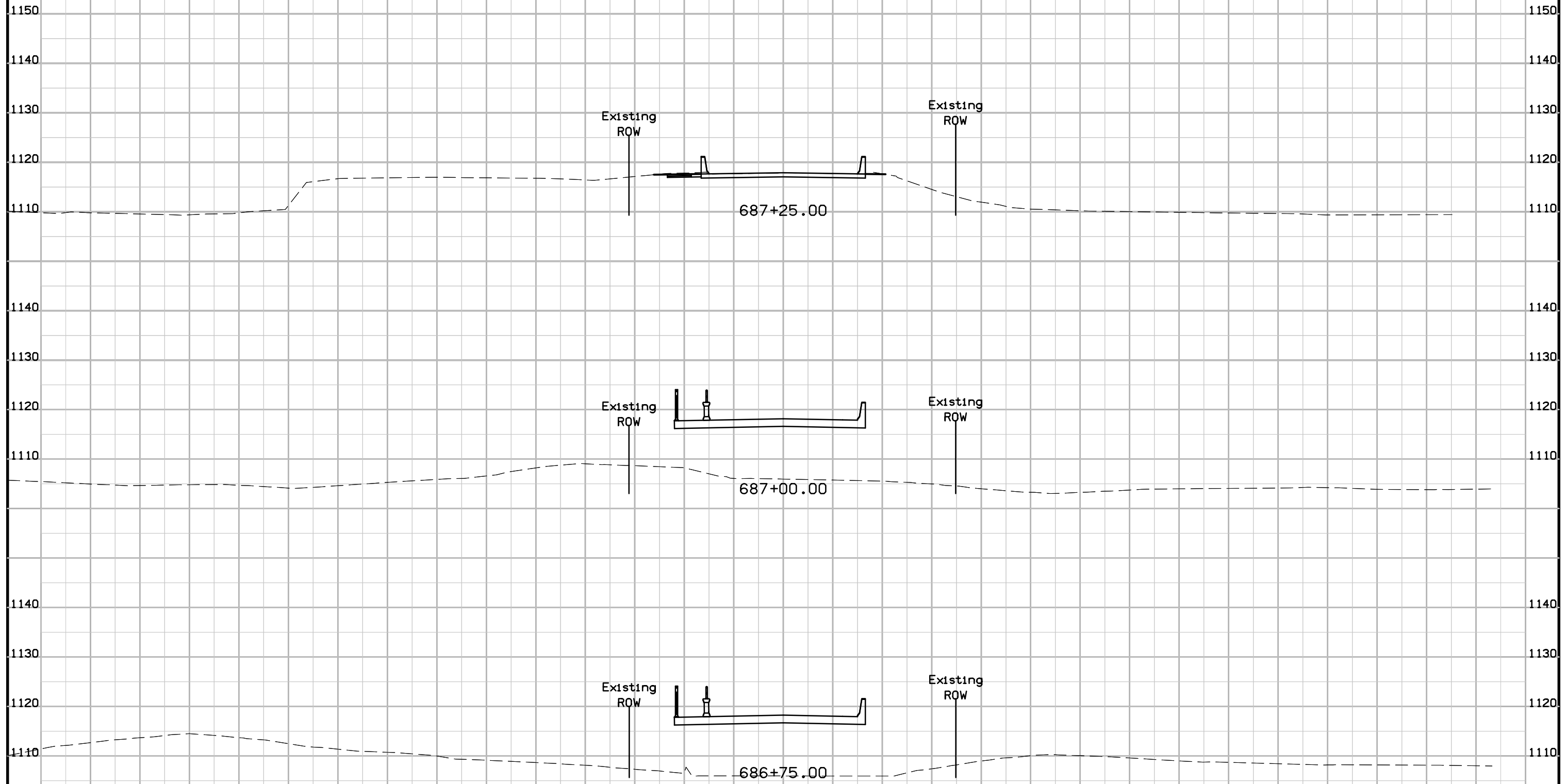


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