

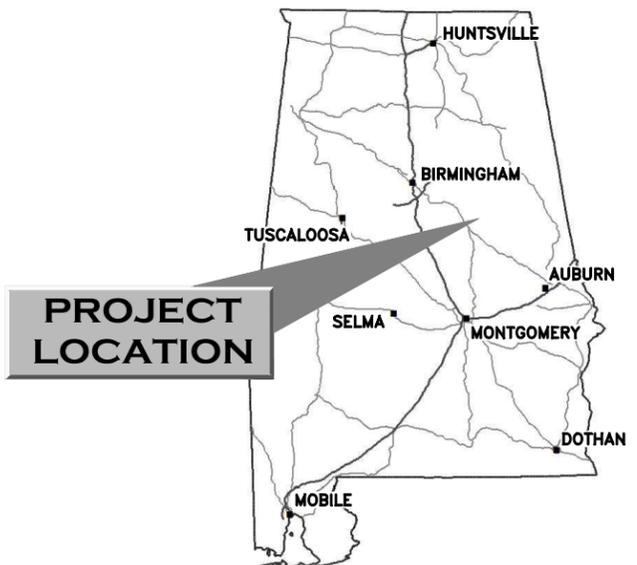


U.S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE, REGION 8

# CONSTRUCTION PLANS FOR: TALLASEEHATCHEE CREEK BRIDGE REPLACEMENT

**NFSR 607 MP 0.643**

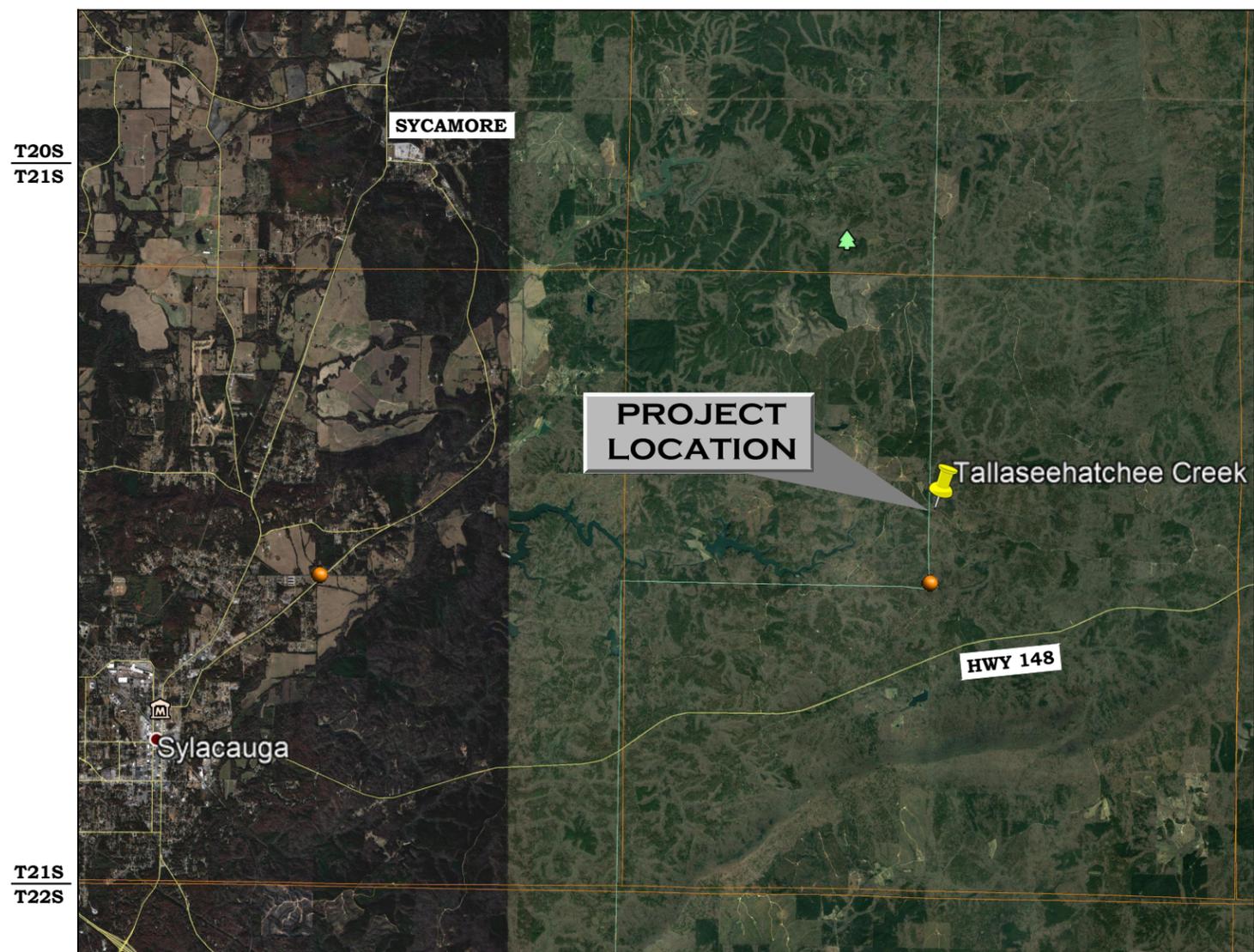
NATIONAL FORESTS IN ALABAMA  
TALLADEGA RANGER DISTRICT  
CLAY COUNTY, ALABAMA



LOCATION MAP

R3E | R2E | R1E  
R2E | R1E

INDEX TO SHEETS	
NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES & GENERAL NOTES
3	ROAD TYPICAL SECTION & POINT TABLES
4	ROAD PLAN & PROFILE
5	BRIDGE GENERAL LAYOUT
6	EXCAVATION & BACKFILL
7	FOUNDATION PLAN
8	BORING LOGS
9 - 17	ABUTMENT DETAILS
17 - 20	SUPERSTRUCTURE DETAILS
XS1 - XS3	ROAD CROSS SECTIONS



VICINITY MAP

RECOMMENDED BY:

\_\_\_\_\_  
FOREST ENGINEER DATE \_\_\_\_\_

\_\_\_\_\_  
DISTRICT RANGER DATE \_\_\_\_\_

\_\_\_\_\_  
RELM STAFF OFFICER DATE \_\_\_\_\_

\_\_\_\_\_  
REGIONAL STRUCTURAL ENGINEER DATE \_\_\_\_\_

APPROVED:

\_\_\_\_\_  
FOREST SUPERVISOR DATE \_\_\_\_\_

\_\_\_\_\_  
REGIONAL DIRECTOR OF ENGINEERING DATE \_\_\_\_\_



## BID SCHEDULE

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	COMMENTS
15101	MOBILIZATION	Lump Sum	1	
15201	CONSTRUCTION SURVEY AND STAKING, METHOD 2, CLASS B	Lump Sum	1	LICENSED SURVEYOR REQUIRED
15401	CONTRACTOR TESTING	Lump Sum	1	CONCRETE TESTING AND PILE INSTALLATION.
15713	SOIL EROSION & POLLUTION CONTROL	Lump Sum	1	INCLUDES DEWATERING. SEE GENERAL NOTES.
20101	CLEARING & GRUBBING	Lump Sum	1	DISPOSE BY SCATTERING.
20302	REMOVAL OF EXISTING BRIDGE, METHOD A	Each	1	
20401	UNCLASSIFIED BORROW, COMPACTION PLACEMENT 2, TOLERANCE CLASS A	Cubic Yard	145	CQ CONTRACTOR FURNISHED FROM A COMMERCIAL SOURCE (IN PLACE QUANTITY).
20801	STRUCTURAL BACKFILL	Cubic Yard	140	CQ CONTRACTOR FURNISHED FROM A COMMERCIAL SOURCE (IN PLACE QUANTITY).
20803	STRUCTURE EXCAVATION	Lump Sum	1	SEE SHEET 6. SUBMIT EXCAVATION PLAN FOR APPROVAL BEFORE BEGINNING WORK.
25102	PLACED RIPRAP, CLASS 3	Tons	125	CQ CONTRACTOR FURNISHED MATERIAL FROM A COMMERCIAL SOURCE. CALCULATED USING A CONVERSION FACTOR OF 1.94 (CY TO Tons).
30208	CRUSHED AGGREGATE SURFACING COURSE, METHOD 1	Tons	110	CQ CONTRACTOR FURNISHED MATERIAL FROM A COMMERCIAL SOURCE. CALCULATED USING A CONVERSION FACTOR OF 1.94 (CY TO Tons).
55201A	STRUCTURAL CONCRETE, CLASS A(AE), ABUTMENTS	Cubic Yard	85	CQ CAST IN PLACE CONCRETE ABUTMENTS
55201B	STRUCTURAL CONCRETE, CLASS A(AE), APPROACH SLABS	Cubic Yard	17	CQ 12" CAST IN PLACE CONCRETE APPROACH SLAB
55301	PRECAST, PRESTRESSED STRUCTURAL CONCRETE MEMBER, CORED SLABS, 51.5' LONG	Each	5	CQ ALTERNATE SECTIONS ARE ACCEPTABLE. SEE SHEET 18 FOR MORE INFORMATION.
55401A	REINFORCING STEEL, GRADE 60, ABUTMENTS	Lbs	7700	CQ
55401B	REINFORCING STEEL, GRADE 60, APPROACH SLABS	Lbs	3100	CQ
55601	BRIDGE TRAFFIC BARRIER TIMBER CURB	Linear Foot	103	CQ
62504	SEEDING, DRY METHOD	Lump Sum	1	INCLUDES MULCH.
63306	POSTS, WOOD	Linear Foot	40	CQ
63307	OBJECT MARKER, TYPE 3	Each	4	CQ

CQ= Contract Quantity (See SECTION 109.02(b) of the STANDARD SPECIFICATIONS)

## GENERAL NOTES

**SPECIFICATIONS:** Construct the project in compliance with Federal Highway Administration Standard Specifications for Construction of Road and Bridges on Federal Highway Projects (FP-14) and applicable Forest Service Supplemental Specifications (FSSS).

**DEWATERING & EROSION CONTROL PLAN:** Submit a Dewatering and Soil Erosion and Sediment Control Plan to the Contracting Officer for approval at least thirty (30) days prior to beginning work. See Section 157 of the Supplemental Specifications for details. Construct temporary means to divert the flow of the live stream as necessary to perform work, including dewatering for bank construction and replanting. Do not pump water from excavations directly into the live stream. See Stream Dewatering Requirements on Sheet 6.

**STREAM CROSSINGS:** Contractor will be allowed to cross the live stream during construction, as approved by the CO.

**DISPOSAL:** All materials designated for removal become the property of the Contractor and are to be disposed of by removing from the Forest in an environmentally safe manner in accordance with all Local, State and Federal requirements.

**TEMPORARY TRAFFIC CONTROL:** Submit a Temporary Traffic Control Plan to the Contracting Officer for approval at least 30 days prior to intended use.

**EXISTING UTILITIES:** Location of existing utilities is unknown. The contractor is responsible for locating all utilities prior to any excavation activities and coordinating with the appropriate utility companies to have utilities moved as necessary to complete the project. Damage to any existing utilities will be repaired at the Contractor's expense.

## DESIGN NOTES

**BRIDGE DESIGN:** This structure is designed for HL-93 loading in accordance with AASHTO LRFD Bridge Design Specifications, 8th edition with current interims.

## MATERIAL NOTES

**CONCRETE:** Use Class A(AE) for all cast-in-place and precast, non-prestressed concrete with  $F'c = 5000$  psi at 28 days and an entrained air content of  $5\% \pm 1\%$ . Finish all precast elements with a Class 2- Rubbed Finish.

Use Class "P" Prestressed concrete with strength requirements as determined by the prestressed beam fabricator, except as follows. The minimum 28-day compressive strength is 5500 psi ( $F'c = 5500$  psi) and the minimum compressive strength at transfer of prestress force is 3500 psi ( $F'ci = 3500$  psi).

Make all concrete in accordance with an approved mix design. Chamfer all exposed edges of concrete 3/4" and fillet all acute angles 3" unless otherwise noted.

**REINFORCING STEEL:** Use non-prestressed reinforcing of the deformed type conforming to AASHTO M31 (ASTM A615), Grade 60. Concrete cover shall be as shown; where not shown it shall conform to AASHTO. Cut and bend steel in accordance with ACI 315.

**PRESTRESSING STEEL:** Use prestressing steel of low-relaxation prestressing strand conforming to AASHTO M203, Grade 270.

**HARDWARE AND STRUCTURAL STEEL:** Use steel shapes, plates and bars meeting the requirements of ASTM A36. Galvanize all steel in accordance with AASHTO M111 (ASTM A123) except when covered by 1 inch or more of concrete. Use hardware meeting the requirements of ASTM A307 except as noted. Galvanize hardware in accordance with AASHTO M232 (ASTM A153) unless covered by 1 inch or more of concrete.

**WELDING:** Weld in accordance with the Bridge Welding Code, AWS D1.5 with E70XX electrodes. A certified welder is required.

**INSTALLATION OF PRESTRESSED GIRDERS:** Erect prestressed concrete girder with vertical variations of no more than 3/8" between deck surfaces at any point along the slab length. Use galvanized steel shims where necessary. Furnish shims the same size as the elastomeric bearing pads and place the shims between the girders and the bearing pads. Galvanize the shims in accordance with AASHTO M232.

**FABRICATION DRAWINGS:** Submit fabrication drawings for all precast members to the CO a minimum of 30 days prior to fabrication.

## TIMBER CURB NOTES

**GLUED LAMINATED MEMBERS:** Furnish curbs and curb blocks of Southern Pine conforming to American Institute of Timber Construction (AITC) 117-2004 for combination symbol 50. Glued laminated members must conform to the current National Design Specifications for wood construction (NDS), with an industrial appearance and fabricated for wet use using resorcinol glues.

**TREATMENT:** Treat glued laminated curbs and curb blocks in conformance with AWPA UC3B (above ground, exposed). Treat all timber in strict conformance with the current edition of WWPI's "best management practices for the use of treated wood in aquatic environments".

**FIELD TREATMENT:** Field treat all abrasions and approved field cuts with an approved solution. Pour the field treatment into any field-drilled holes or nail holes prior to inserting the fasteners.

**TIMBER FASTENERS:** Use bolts and nuts conforming to ASTM A307, galvanized. Use malleable iron washers against wood, except where noted.

**FABRICATION:** Submit shop drawings for all curb components. Show all dimensions and fabrication details for all cut or bored timber. No field drilling will be allowed unless otherwise noted in the plans.



United States Department of Agriculture  
Forest Service

**REGION 8  
SOUTHERN REGION**

PROJECT NAME

**TALLASEEHATCHEE  
CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

**NATIONAL FORESTS  
IN ALABAMA**

**TALLADEGA  
RANGER DISTRICT**

DRAWING  
TITLE

**ESTIMATED  
QUANTITIES &  
GENERAL NOTES**

DATE

Jan-21

ARCHIVE NO.

DESIGNER

A. GROESBECK

DRAWN

A. GROESBECK

CHECKED

M. JENSEN

PROJECT NO.

7109

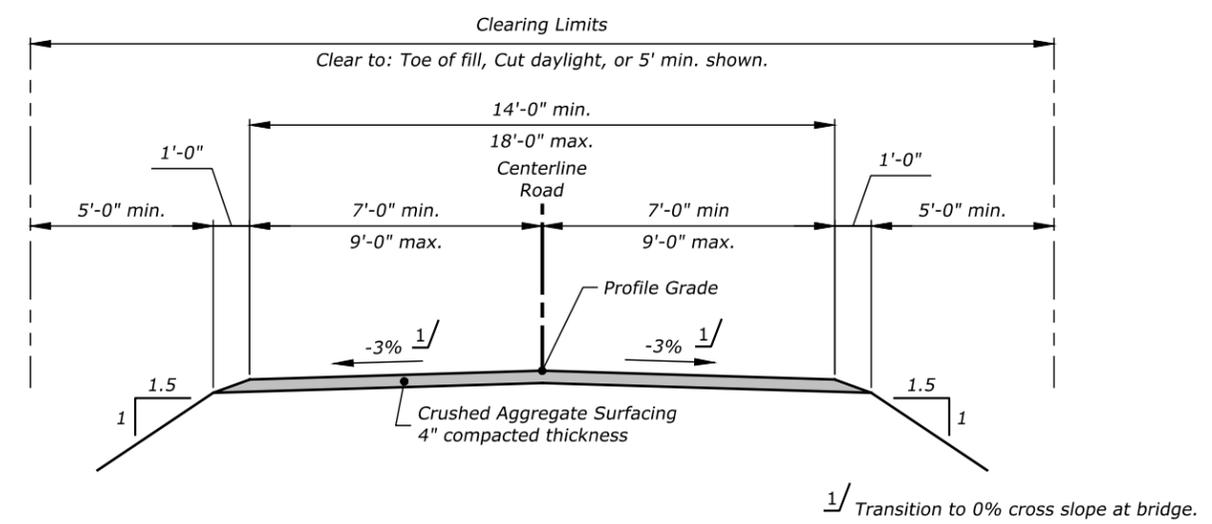
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**2**

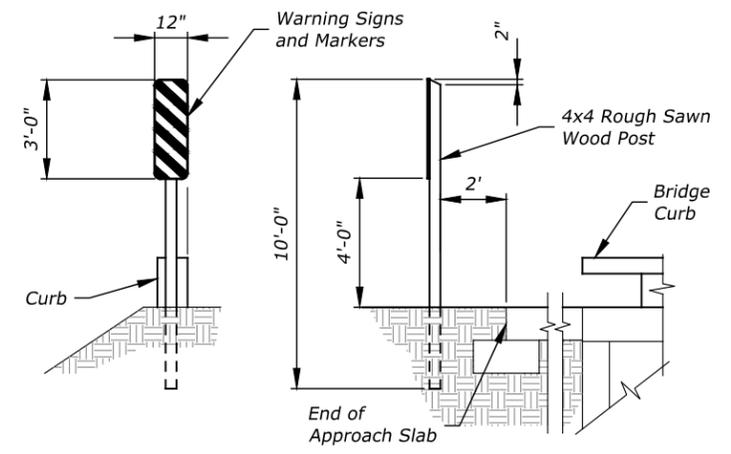
SHEET 2 OF 20

**LEGEND**      EXISTING FEATURES

- Existing Edge of Road
- █ Existing Bridge
- - - Existing Edge of Water
- 250 Major Contour (5')
- Minor Contour (1')
- Existing Guardrail



**ROAD TYPICAL SECTION**  
Not to Scale



**OBJECT MARKERS:** Use 12"x 36" Type 3 object markers colored yellow and black. Use material meeting MUTCD OM-3L or OM-3R specifications. Fasten to post w/ (2) 1/4" Ø machine bolts w/ washers. Field drill bolt holes. Install posts such that the inside edge of the reflectorized panel is on line with the inside edge of the curb.

**OBJECT MARKER TYPE 3**  
Not to Scale

**ROAD CENTERLINE POINTS**

CENTERLINE POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
8000	984605.3743	568483.3421	617.96	STA 1+00
8001	984592.4371	568495.9638	617.24	STA 1+18.07 PC
8002	984577.0838	568511.6142	616.48	STA 1+40
8003	984563.6894	568526.4647	616.03	STA 1+60
8004	984555.3381	568536.3608	615.86	STA 1+72.95 PT
8005	984538.1613	568557.2580	615.83	STA 2+00
8006	984525.4615	568572.7085	616.08	STA 2+20
8007	984512.7618	568588.1589	616.56	STA 2+40
8008	984509.1106	568592.6009	616.73	STA 2+45.75
8009	984505.9357	568596.4636	616.88	STA 2+50.75
8010	984502.7608	568600.3262	617.03	STA 2+55.75
8011	984470.0589	568640.1111	618.58	STA 3+07.25
8012	984466.8840	568643.9737	618.73	STA 3+12.25
8013	984465.7238	568645.3851	618.79	STA 3+14.08 PC
8014	984463.7285	568647.8523	618.89	STA 3+17.25
8015	984450.6052	568666.4205	619.84	STA 3+40
8016	984440.8740	568683.8839	620.94	STA 3+60
8017	984432.9349	568702.2316	622.29	STA 3+80
8018	984428.3150	568716.0866	623.44	STA 3+94.61 PT
8019	984426.7973	568721.2604	623.89	STA 4+00
8020	984421.1677	568740.4517	625.74	STA 4+20
8021	984415.5381	568759.6431	627.72	STA 4+40
8022	984412.7233	568769.2387	628.70	STA 4+50

\* Centerline Points are at Profile Grade at stations shown.

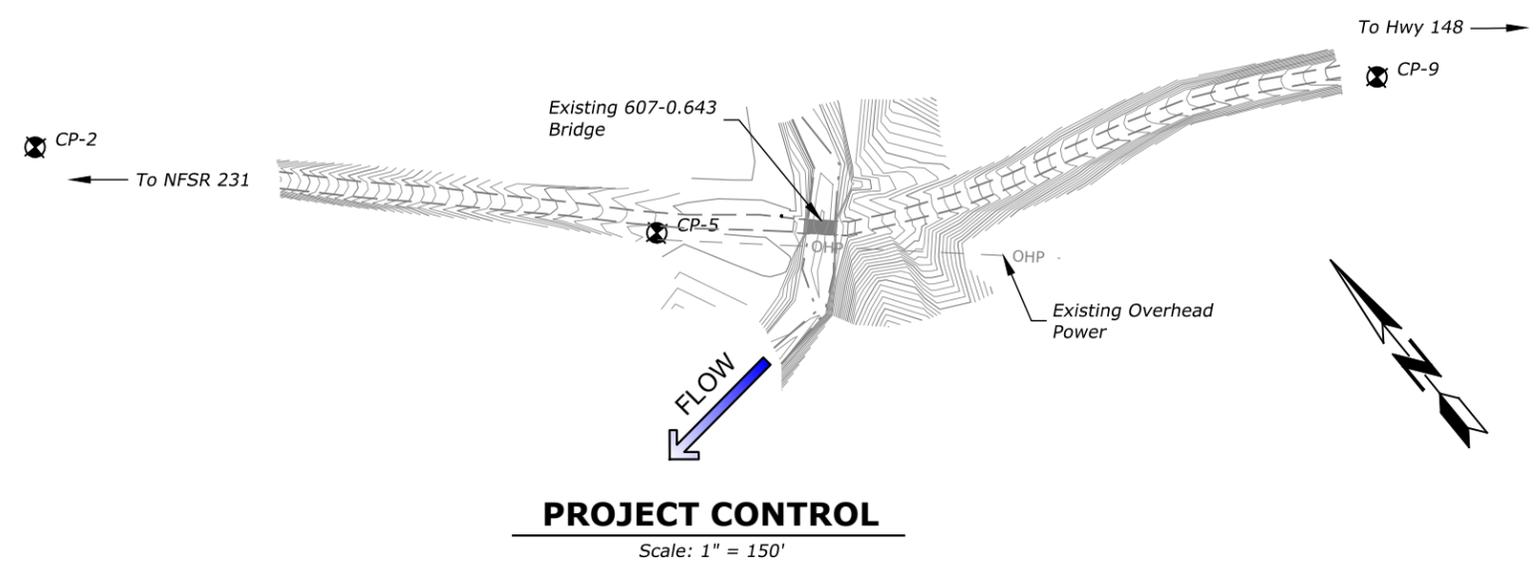
**ABUTMENT LAYOUT POINTS**

LAYOUT POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
7000	984502.2845	568600.9056	608.18	ABUTMENT 1 LAYOUT
7001	984470.5352	568639.5317	608.18	ABUTMENT 2 LAYOUT

\* Abutment layout points are top of footing elevations.

**CONTROL POINTS**

CONTROL POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-2	984943.01	568157.87	673.18	IR-5/8"IR W/PCAP
CP-5	984565.03	568507.39	615.54	IR-5/8"IR W/PCAP
CP-9	984288.32	569044.90	647.11	IR-5/8"IR W/PCAP



**PROJECT CONTROL**  
Scale: 1" = 150'



United States Department of Agriculture  
Forest Service

**REGION 8**  
SOUTHERN REGION

PROJECT NAME

**TALLASEEHATCHEE  
CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
IN ALABAMA

**TALLADEGA  
RANGER DISTRICT**

DRAWING  
TITLE

**ROAD TYPICAL  
SECTION & POINT  
TABLES**

DATE  
**Jan-21**

ARCHIVE NO.

DESIGNER  
**A. GROESBECK**

DWG SHEET NO.  
**3**

DRAWN  
**A. GROESBECK**

CHECKED  
**M. JENSEN**

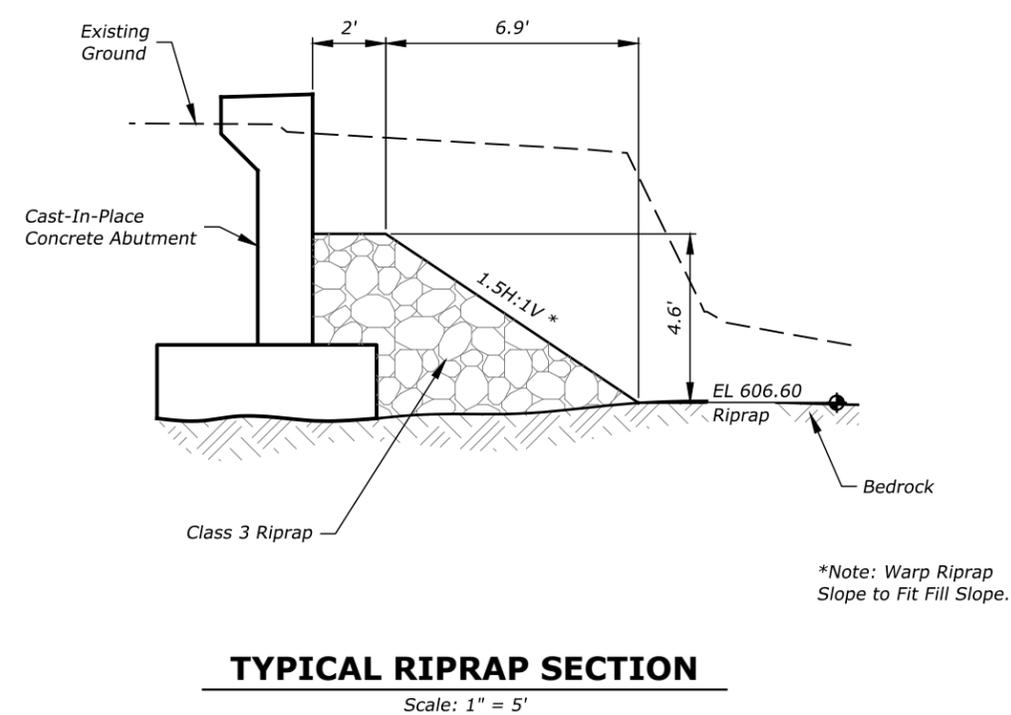
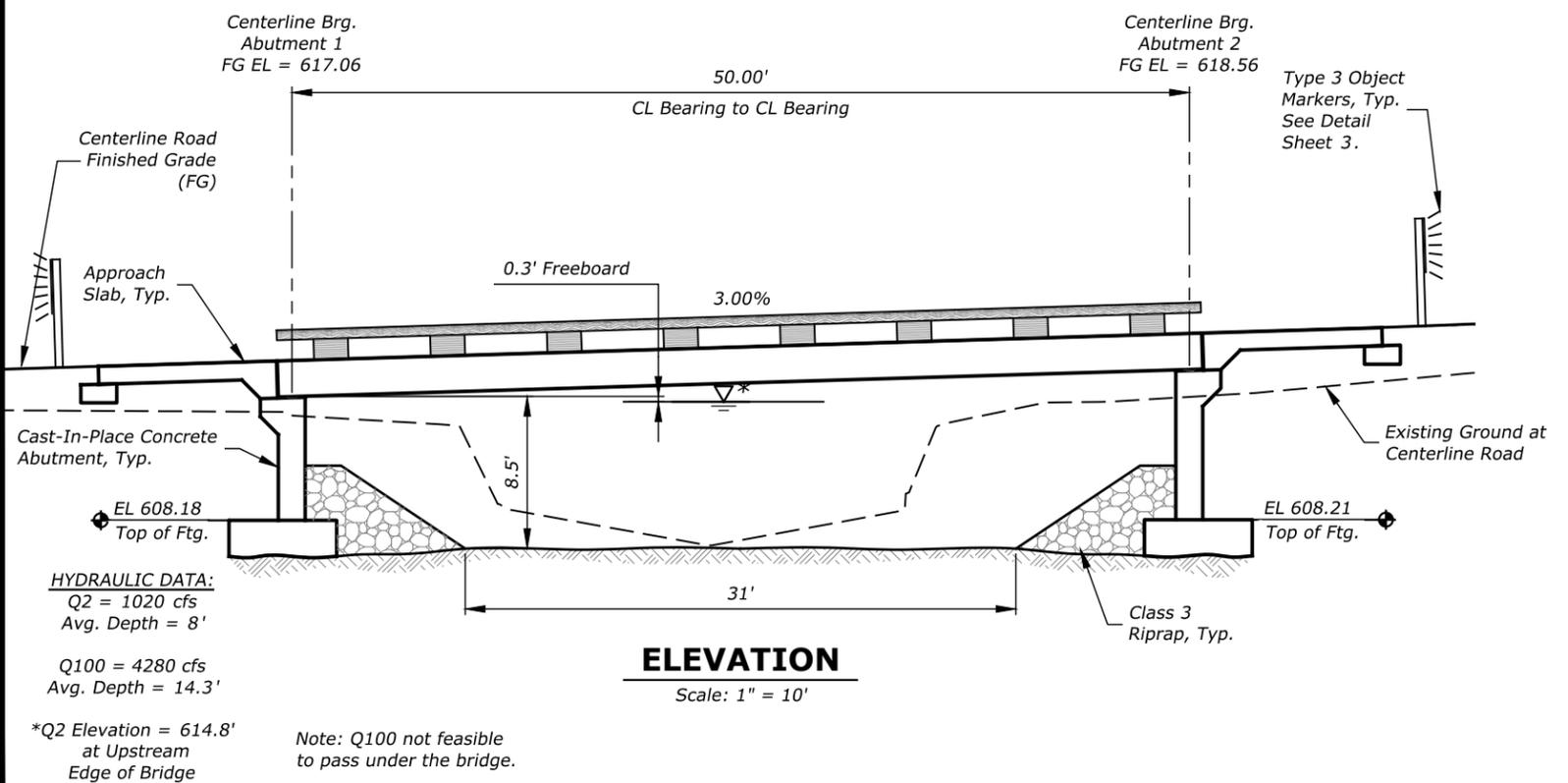
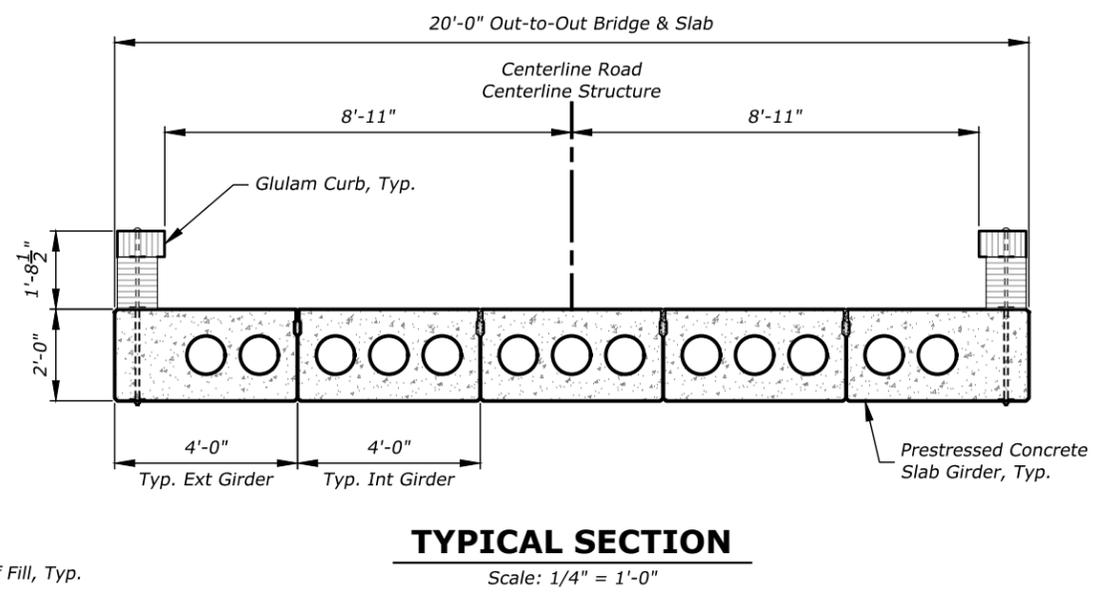
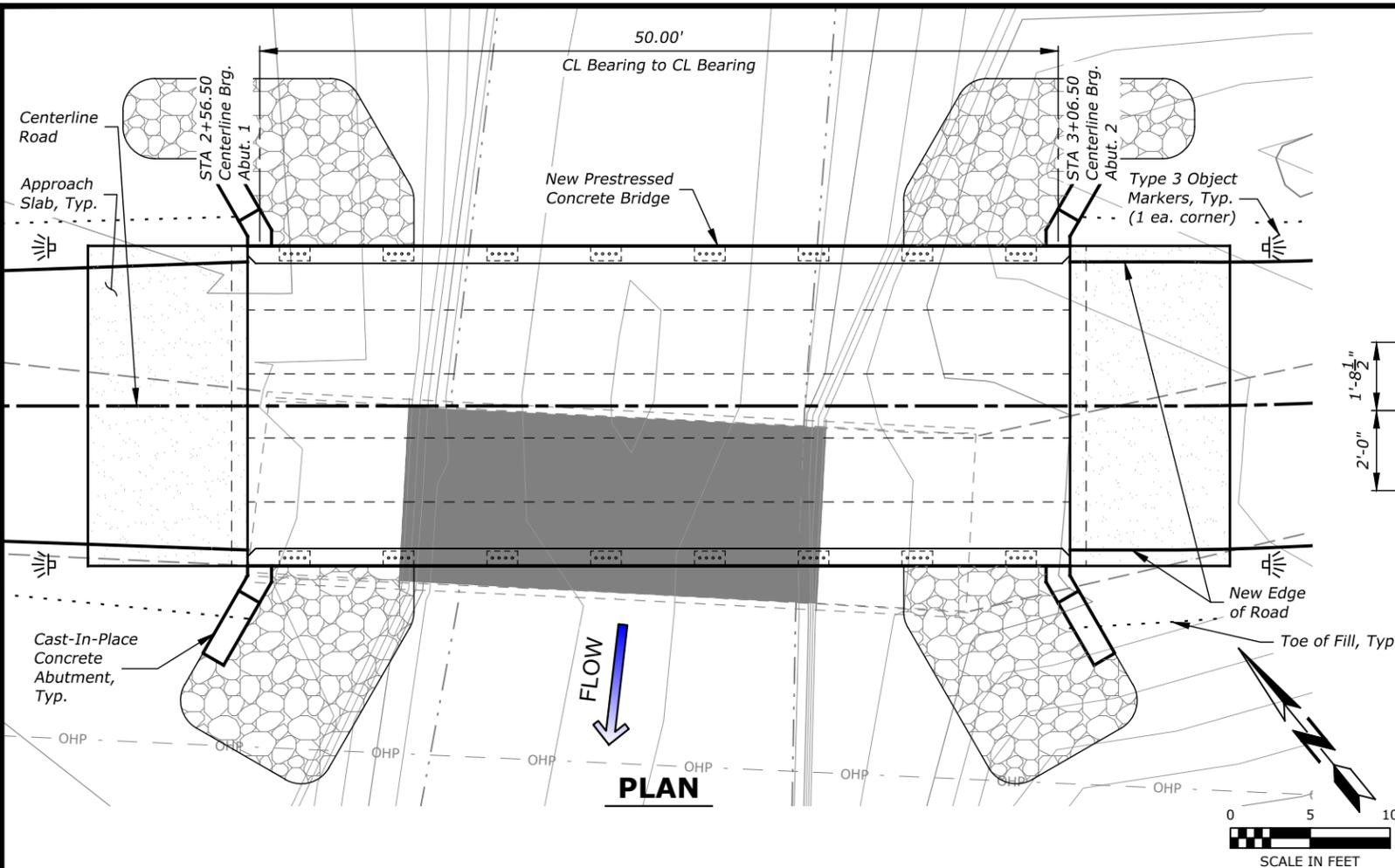
PROJECT NO.  
**7109**

SHEET 3 OF 20

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United States Department of Agriculture  
Forest Service

**REGION 8**  
SOUTHERN REGION

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PROJECT NAME

**TALLASEEHATCHEE CREEK BRIDGE REPLACEMENT**  
NFSR 607-0.643

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NATIONAL FORESTS IN ALABAMA

TALLADEGA RANGER DISTRICT

---

DRAWING TITLE

**BRIDGE GENERAL LAYOUT**

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DATE

Jan-21

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ARCHIVE NO.

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DESIGNER	DWG SHEET NO.
A. GROESBECK	<b>5</b>
DRAWN	
A. GROESBECK	
CHECKED	
M. JENSEN	
PROJECT NO.	SHEET 5 OF 20
7109	



United States Department of Agriculture  
Forest Service

**REGION 8**  
SOUTHERN REGION

PROJECT NAME

**TALLASEEHATCHEE  
CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE

**EXCAVATION &  
BACKFILL**

DATE

**Jan-21**

ARCHIVE NO.

DESIGNER

**A. GROESBECK**

DRAWN

**A. GROESBECK**

CHECKED

**M. JENSEN**

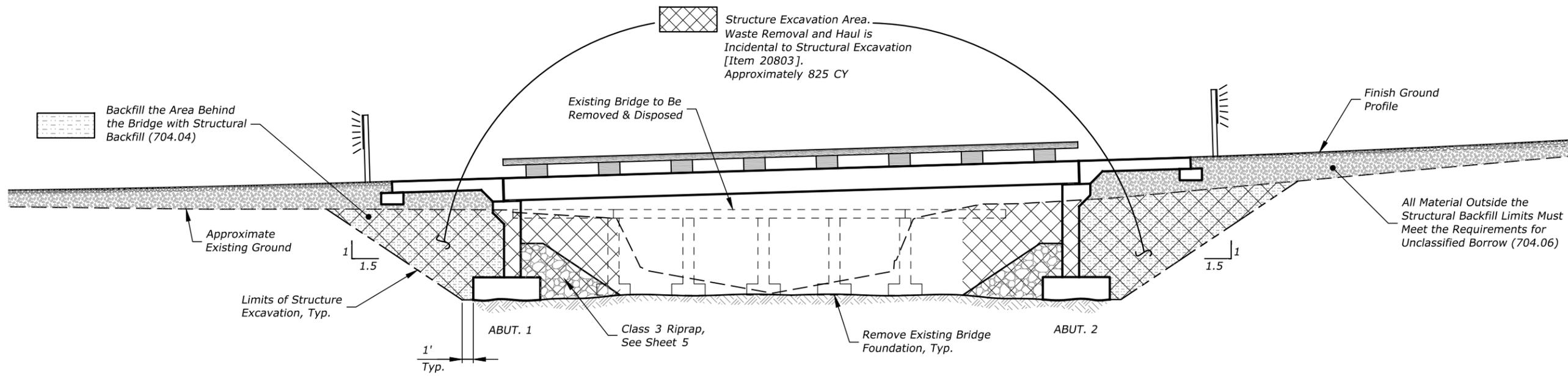
PROJECT NO.

**7109**

DWG SHEET NO.

**6**

SHEET **6** OF **20**



**STRUCTURE EXCAVATION** LOOKING UPSTREAM

Not to Scale

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
IMPORTED STRUCTURAL BACKFILL (704.04)	Cubic Yard	140

\*\* The quantities shown are for information only and based on the limits shown. Quantities are in-place with no adjustment for shrink/swell. \*\*

**STRUCTURE EXCAVATION NOTES:**

1. Complete Structure Excavation in accordance with FP-14 Section 208.
2. The Contractor is solely responsible for excavation support and compliance with all applicable OSHA regulations.
3. Excavation limits shown comply with OSHA sloping and benching requirements based on Soil Types found during soils exploration. Notify the CO immediately if actual conditions vary from the soil types shown.
4. Submit an Excavation Plan for approval that includes, as a minimum, the following: drawings and a written outline illustrating and describing the proposed excavation limits, methods, equipment to be used, location of stockpiles, and estimated quantities. The Excavation Plan must comply with all applicable OSHA requirements. Changes to the excavation limits shown here for the Contractor's dewatering methods or Contractor convenience must be shown on the Plan and are the responsibility of the Contractor. The Excavation Plan is incidental to the work.
5. Ground water was encountered approximately 5.4' below top of test bore hole. Refer to Geotechnical Report on file with the Forest Service.



**EXISTING BRIDGE**

**SOIL EROSION CONTROL:**

1. Protect against soil erosion and sedimentation during construction in accordance with FP-14 Section 157 and the project permits. Prepare and submit a Soil Erosion and Sediment Control Plan to the CO for approval prior to beginning work. Include drawings and written outline illustrating and describing the proposed layout, methods, and equipment.

**BACKFILL NOTES:**

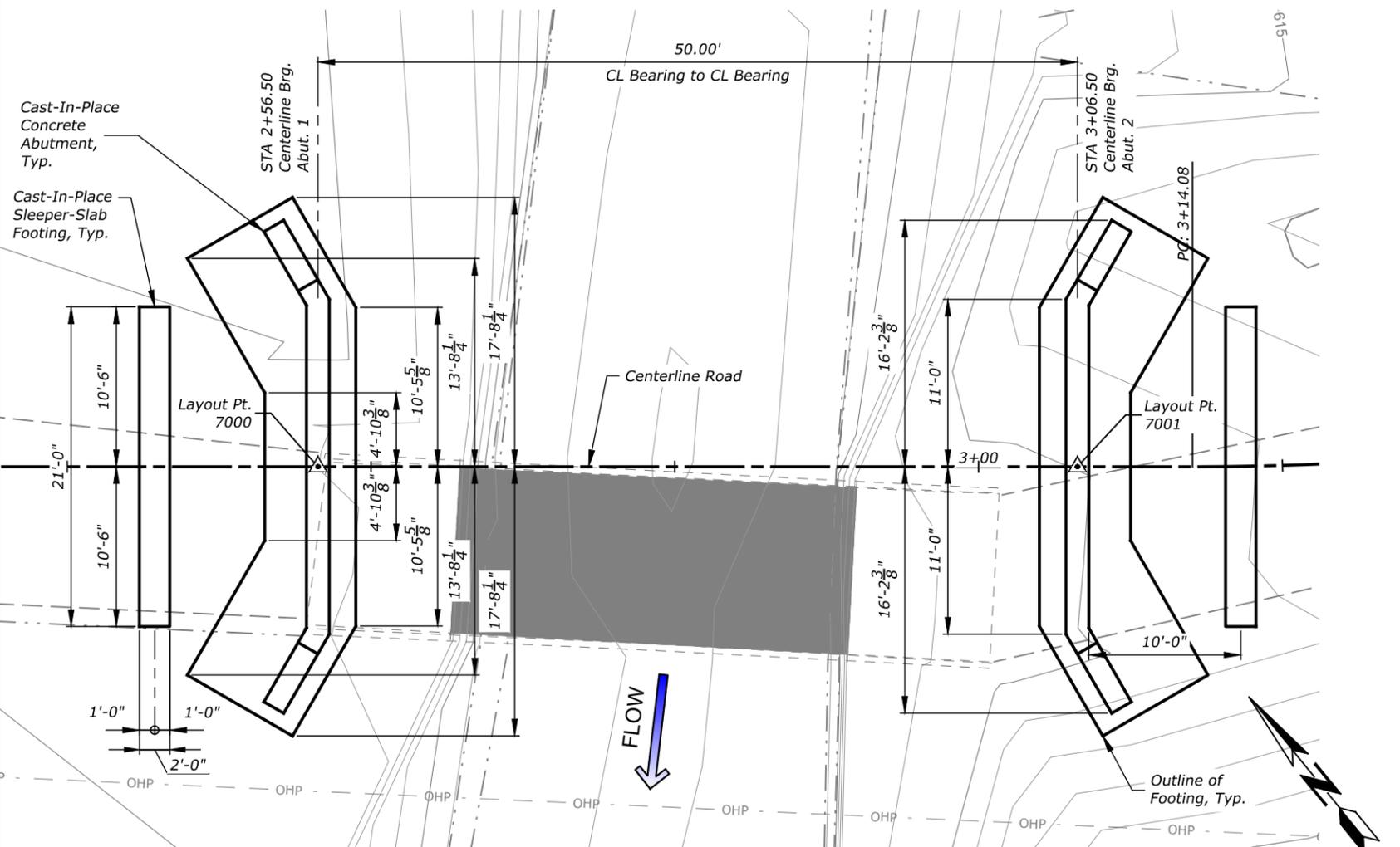
1. Place Structural Backfill meeting FP-14 Subsection 704.04 at the ends of the bridge in accordance with Subsection 208.10 and compact in accordance with Subsection 208.10.
2. The Structural Backfill limits shown here are the minimum requirements.
3. It is assumed that material from Structure Excavation at this site will not be suitable for re-use. Remove and haul all unsuitable material to the designated waste site. Any material deemed suitable may be used upon approval by the CO.
4. Any material outside the limits shown for Structural Backfill must meet the requirements of Subsection 704.06, Unclassified Borrow.

**STRUCTURE DEMOLITION NOTES:**

1. Complete Structure Removal in accordance with FP-14 Section 203.
2. Submit a Demolition Plan for approval that includes, as a minimum, the following: drawings and a written outline illustrating and describing the methods, equipment to be used, and estimated quantities. The Demolition Plan must comply with all applicable OSHA requirements. The Excavation Plan is incidental to the work.

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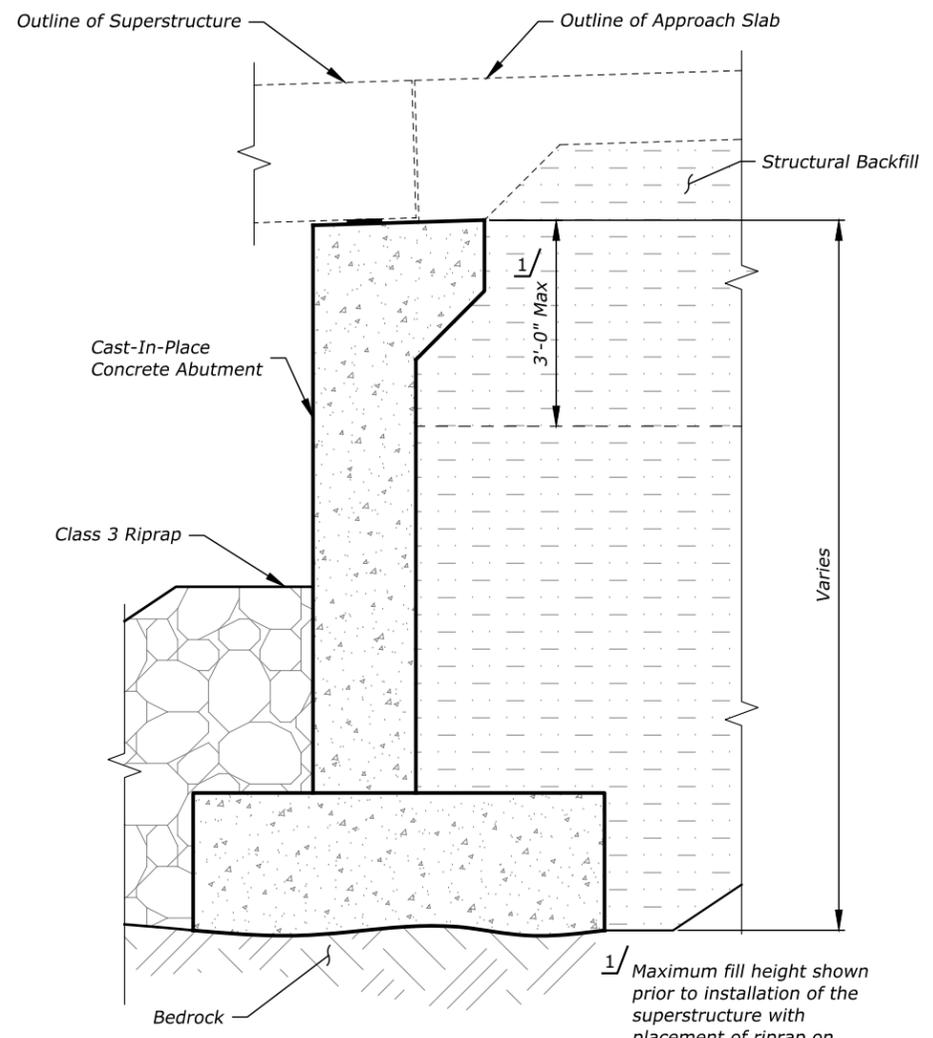
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**PLAN**

NOTE: All dimensions are typical.

- Notes:  
1. The Geotechnical Report is available from the Forest Service.



**TYPICAL ABUTMENT SECTION**

Scale: 3/8" = 1'-0"



United States Department of Agriculture  
Forest Service

**REGION 8  
SOUTHERN REGION**

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CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE  
**FOUNDATION PLAN**

DATE  
**Jan-21**

ARCHIVE NO.

DESIGNER  
**A. GROESBECK**

DWG SHEET NO.  
**7**

DRAWN  
**A. GROESBECK**

CHECKED  
**M. JENSEN**

PROJECT NO.  
**7109**

SHEET 7 OF 20

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## RECORD OF TEST BORING

BORING NO.: B-01 - TC

**PROJECT:** National Forest Bridges  
**SAMPLE METHOD:** ASTM D1586 & 1587  
**LOCATION:** Refer to Boring Location Plan  
**STATION:**  
**GWL:** 5.4 ft.  
**GWL AT 24 HRS.:**

**CLIENT:** DJ&A  
**TYPE BORING:** Mud Rotary  
**DRILLER:** P.Pitts  
**DRILL RIG:** D-50  
**ENGINEER:** C. LaFroschia  
**WEATHER:**

**PROJECT NO.:** 20-1101-0098  
**PAGE:** 1 OF 2  
**LAT.:** 33.20611111  
**LONG.:** -86.11977778  
**DATE:** 6/3/20  
**ELEVATION:**

DEPTH/ ELEV. (FT)	SYMBOL	SAMPLER	SPT BLOWS	SAMPLE I.D.NO.	MAJOR SOIL COMPONENT	OTHER COMPONENTS	SPT N/ (REC%)	% F	MC	LL	PI	UW (pcf)	OC (%)	UU (psf)	UC (psf)	PP (psf)	VS (psf)	FS (psf)
10			10			Medium dense, fine to medium grained, reddish brown, moist, with gravel	17											
7			7			Dense, fine to coarse grained, reddish brown and gray, dry, with gravel and some clay	36											
8			8			Loose, fine to medium grained, gray, wet, with clay	5	43.7	23	NP	NP							
1			1		<b>SILTY SAND (SM)</b>	Loose, fine to coarse grained, gray, moist, trace gravel	9											
2			2															
4			4															
1			1															
2			2															
7			7															
8			8			Very dense, fine grained, dry, trace gravel	50	19.1										
50/2			50/2															
						No Recovery CHLORITE SCHIST, gray, slightly weathered, weak, poor metamorphic	(80%)											
						CHLORITE SCHIST, gray, slightly weathered, weak, poor metamorphic	(55%)											
						CHLORITE SCHIST, gray, slightly weathered, weak, very poor metamorphic	(73%)											
					<b>CHLORITE SCHIST</b>	CHLORITE SCHIST, gray, slightly weathered, strong, poor metamorphic	(100%)											
						CHLORITE SCHIST, gray, slightly weathered, strong, fair metamorphic	(100%)											

THOMPSON - ONSHORE BOREHOLE - DF STD US LAB.GDT - 6/26/20 10:32 - L:\GINT PROJECTS\2020\20-1101-0098 - DJ&A NATIONAL FOREST BRIDGES\20-1101-0098 - DJ&A NATIONAL FOREST BRIDGES.GPJ

Refer to Notes and Legend on separate sheet for additional information. This Record of Test Boring is part of the project Geotechnical Report. Actual strata changes may be gradual over depth.

(Continued Next Page)



## RECORD OF TEST BORING

BORING NO.: B-01 - TC

**PROJECT:** National Forest Bridges  
**SAMPLE METHOD:** ASTM D1586 & 1587  
**LOCATION:** Refer to Boring Location Plan  
**STATION:**  
**GWL:** 5.4 ft.  
**GWL AT 24 HRS.:**

**CLIENT:** DJ&A  
**TYPE BORING:** Mud Rotary  
**DRILLER:** P.Pitts  
**DRILL RIG:** D-50  
**ENGINEER:** C. LaFroschia  
**WEATHER:**

**PROJECT NO.:** 20-1101-0098  
**PAGE:** 2 OF 2  
**LAT.:** 33.20611111  
**LONG.:** -86.11977778  
**DATE:** 6/3/20  
**ELEVATION:**

DEPTH/ ELEV. (FT)	SYMBOL	SAMPLER	SPT BLOWS	SAMPLE I.D.NO.	MAJOR SOIL COMPONENT	OTHER COMPONENTS	SPT N/ (REC%)	% F	MC	LL	PI	UW (pcf)	OC (%)	UU (psf)	UC (psf)	PP (psf)	VS (psf)	FS (psf)
					CHLORITE SCHIST (CONT.)		(100%)											
Bottom of borehole at 31.1 feet.																		

THOMPSON - ONSHORE BOREHOLE - DF STD US LAB.GDT - 6/26/20 10:32 - L:\GINT PROJECTS\2020\20-1101-0098 - DJ&A NATIONAL FOREST BRIDGES\20-1101-0098 - DJ&A NATIONAL FOREST BRIDGES.GPJ

Refer to Notes and Legend on separate sheet for additional information. This Record of Test Boring is part of the project Geotechnical Report. Actual strata changes may be gradual over depth.



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**REGION 8**  
SOUTHERN REGION

PROJECT NAME

**TALLASEEHATCHEE  
CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE

**BORING LOGS**

DATE

**Jan-21**

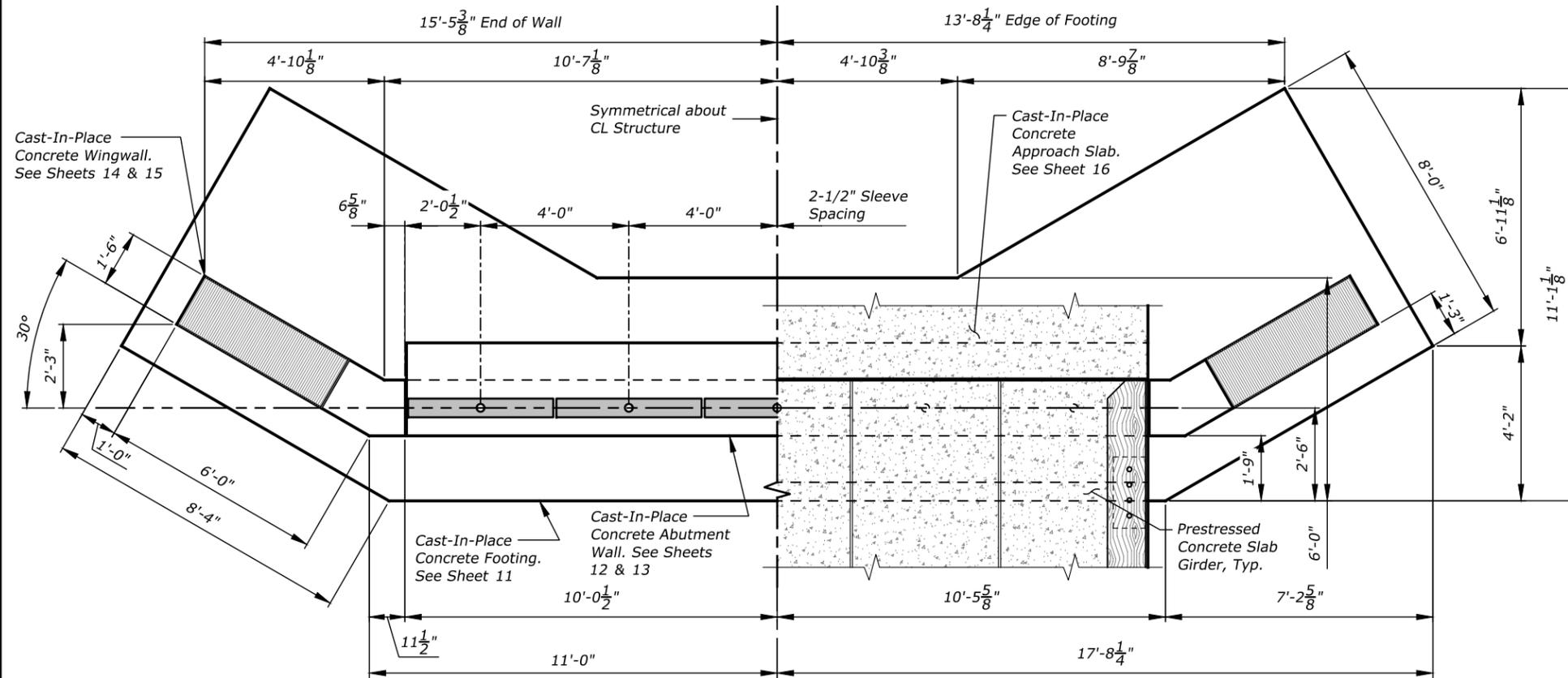
ARCHIVE NO.

DESIGNER	DWG SHEET NO.
<b>A. GROESBECK</b>	<b>8</b>
DRAWN	
<b>A. GROESBECK</b>	

CHECKED	SHEET 8 OF 20
<b>M. JENSEN</b>	

PROJECT NO.	SHEET 8 OF 20
<b>7109</b>	

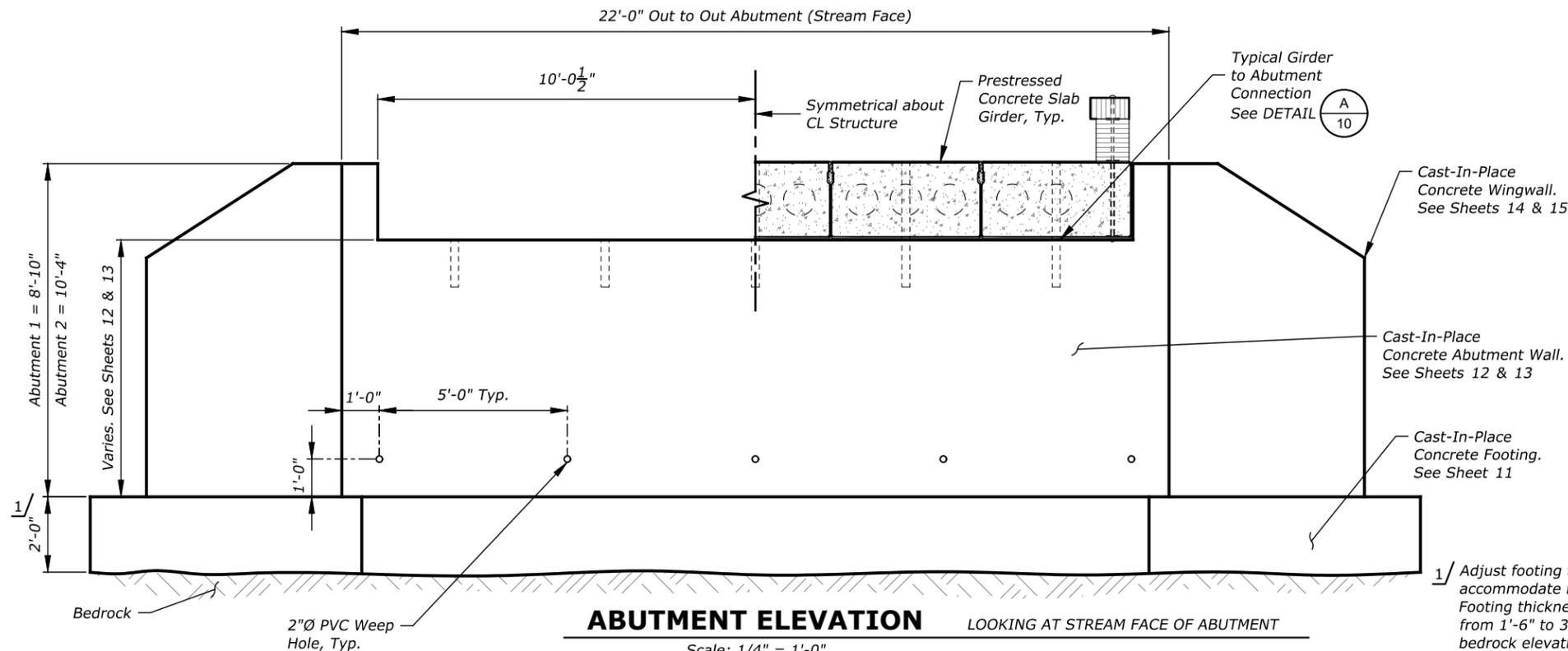
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**ABUTMENT PLAN**

Scale: 1/4" = 1'-0"

Note: All dimensions are typical unless noted otherwise.

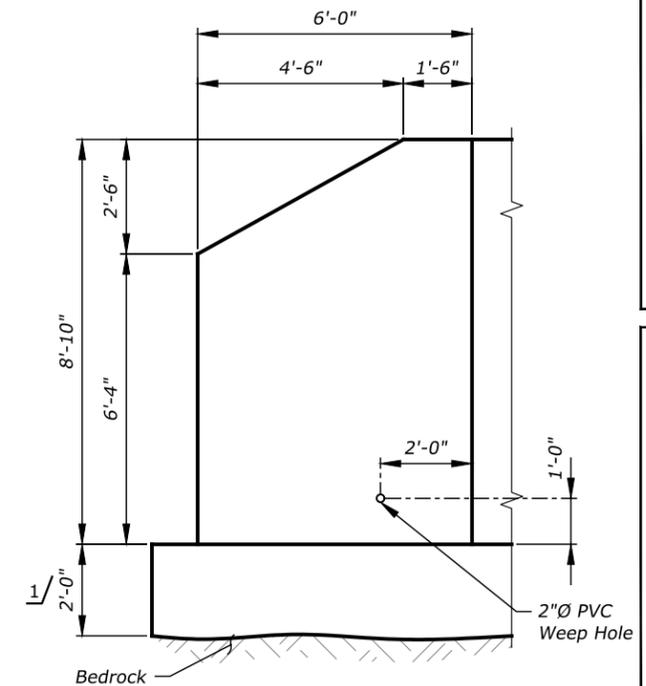


**ABUTMENT ELEVATION**

Scale: 1/4" = 1'-0"

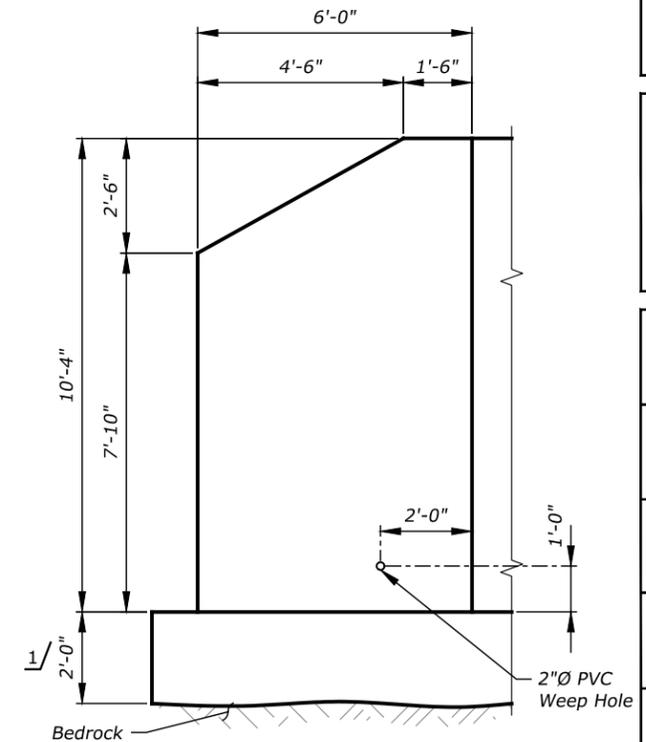
LOOKING AT STREAM FACE OF ABUTMENT

1/ Adjust footing thickness to accommodate bedrock. Footing thickness can vary from 1'-6" to 3'-0" based on bedrock elevation.



**ABUTMENT 1 WINGWALL**

Scale: 1/4" = 1'-0"



**ABUTMENT 2 WINGWALL**

Scale: 1/4" = 1'-0"



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PROJECT NAME

**TALLASEEHATCHEE  
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REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE

**ABUTMENT PLAN &  
ELEVATION**

DATE

Jan-21

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A. GROESBECK

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7109

DWG SHEET NO.

**9**

SHEET 9 OF 20

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PROJECT NAME

**TALLASEEHATCHEE  
CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
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TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE

**ABUTMENT DETAILS**

DATE

**Jan-21**

ARCHIVE NO.

DESIGNER

**A. GROESBECK**

DWG SHEET NO.

**10**

DRAWN

**A. GROESBECK**

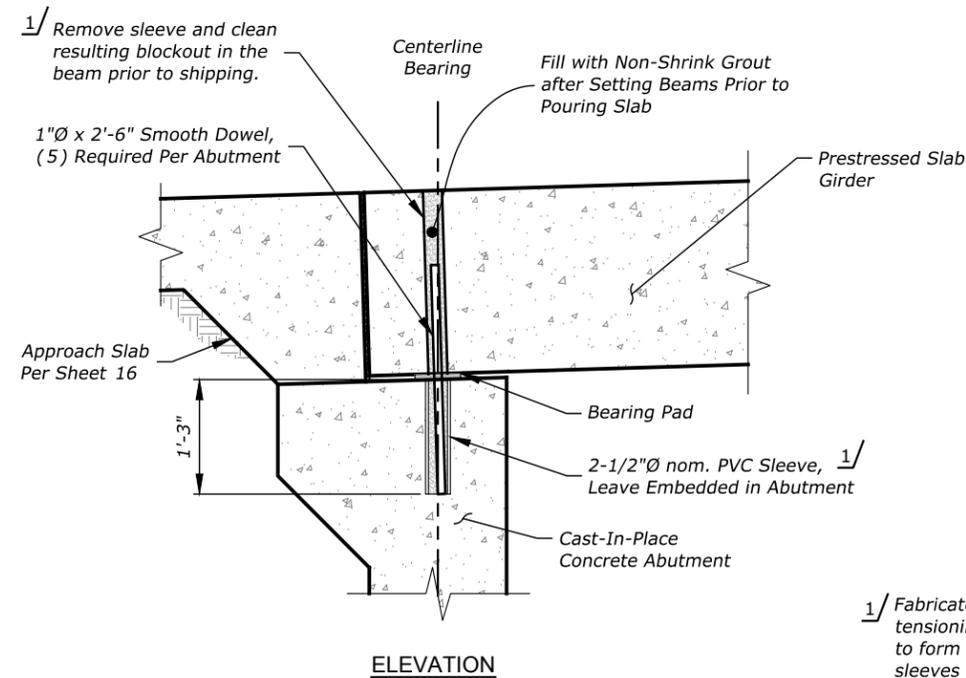
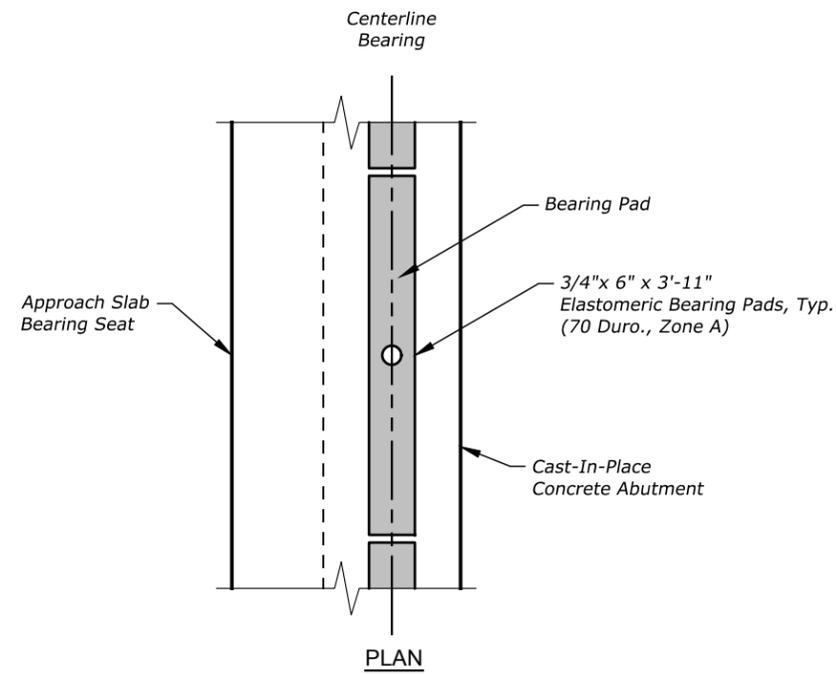
CHECKED

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PROJECT NO.

**7109**

SHEET 10 OF 20



<sup>1/</sup> Fabricator may use post tensioning duct in lieu of PVC to form blockouts where PVC sleeves are to be removed. P/T duct may be left in place.

**A**  
**10** **DETAIL** GIRDER TO ABUTMENT CONNECTION  
Scale: 1/2" = 1'-0"



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NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE

FOUNDATION  
REINFORCEMENT

DATE

Jan-21

ARCHIVE NO.

DESIGNER

A. GROESBECK

DWG SHEET NO.

11

DRAWN

A. GROESBECK

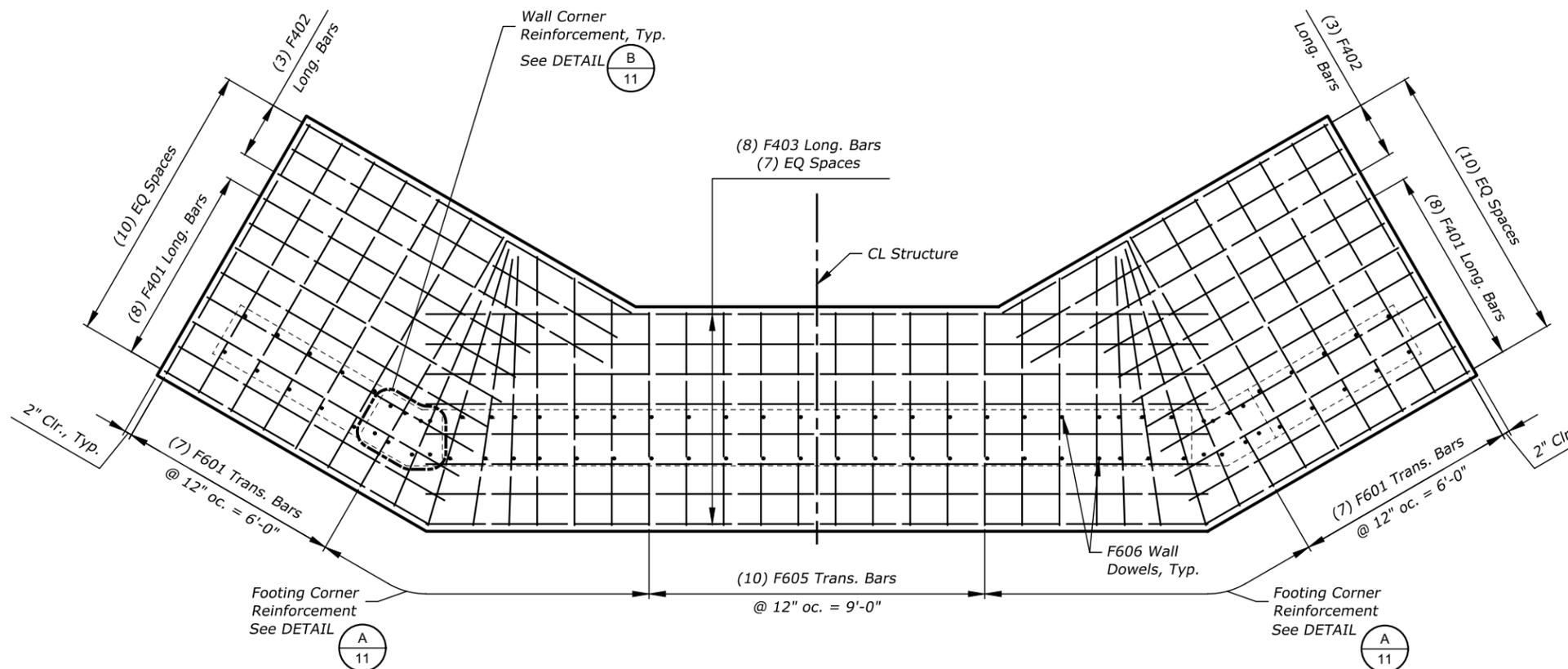
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PROJECT NO.

7109

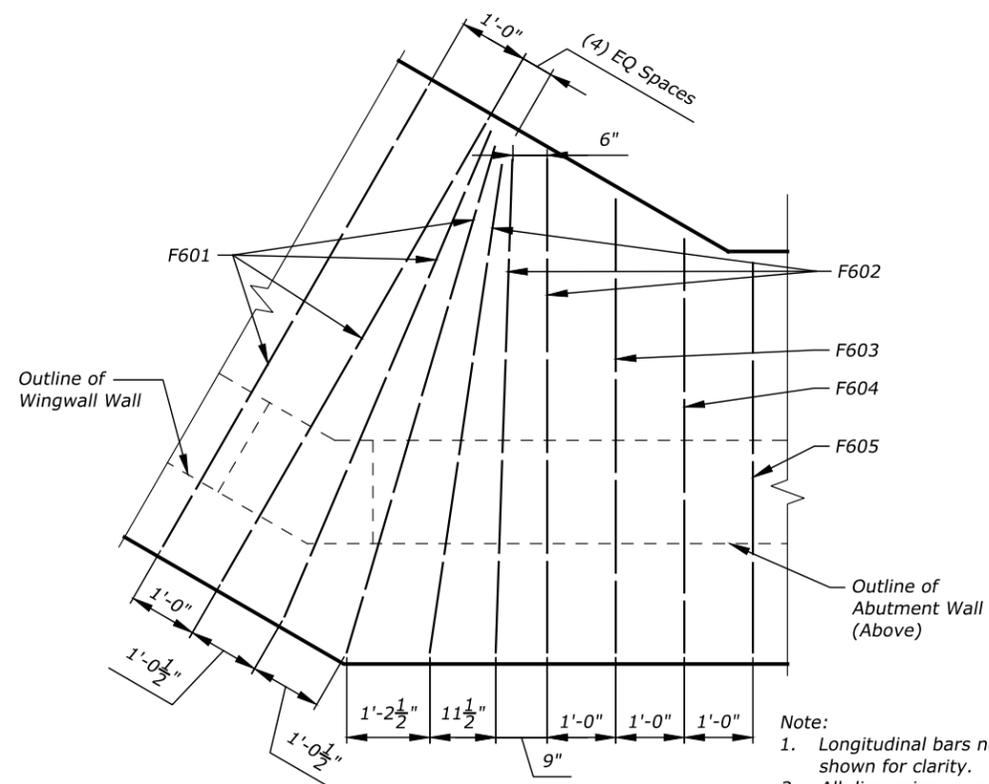
SHEET 11 OF 20



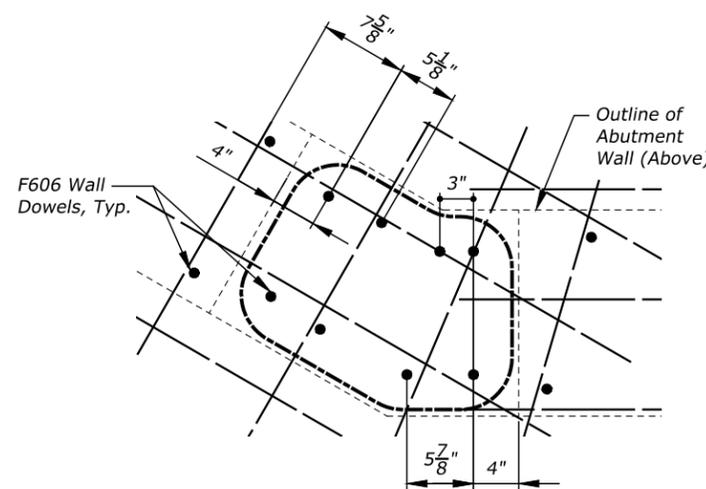
Note:  
1. All dimensions are typical unless noted otherwise.  
2. Top and Bottom Mat are identical.

**FOUNDATION REINFORCEMENT** TOP & BOTTOM REINFORCEMENT

Scale: 1/4" = 1'-0"

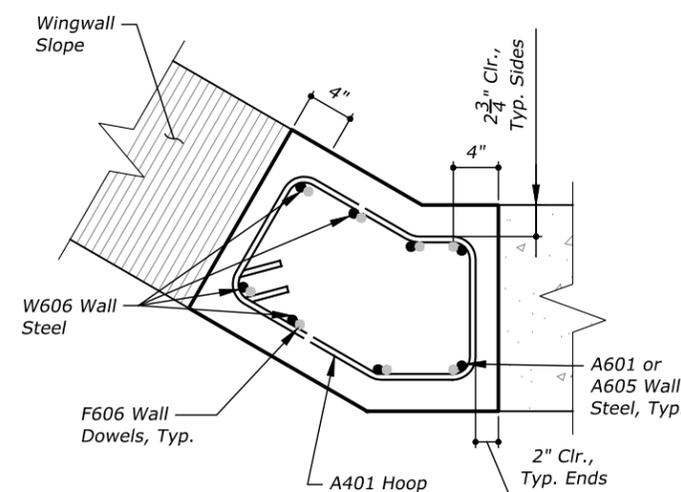


**A** **DETAIL** FOOTING CORNER REINFORCEMENT  
Scale: 3/8" = 1'-0"



**WALL DOWELS IN FOOTING**

**B** **DETAIL** WALL CORNER REINFORCEMENT  
Scale: 3/4" = 1'-0"



**WALL STEEL AT TOP OF WALL**

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**TALLASEEHATCHEE  
CREEK BRIDGE  
REPLACEMENT  
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NATIONAL FORESTS  
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TITLE

**ABUTMENT 1 WALL  
PLAN**

DATE

Jan-21

ARCHIVE NO.

DESIGNER

A. GROESBECK

DWG SHEET NO.

**12**

DRAWN

A. GROESBECK

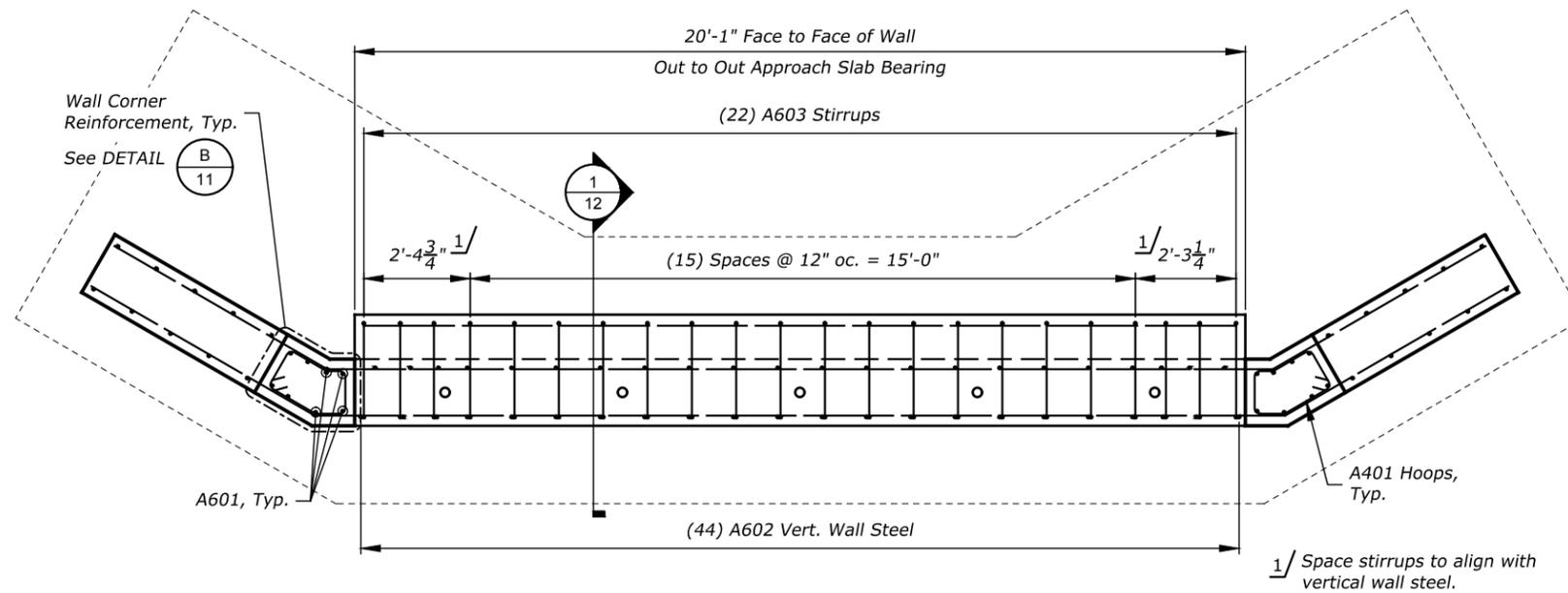
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PROJECT NO.

7109

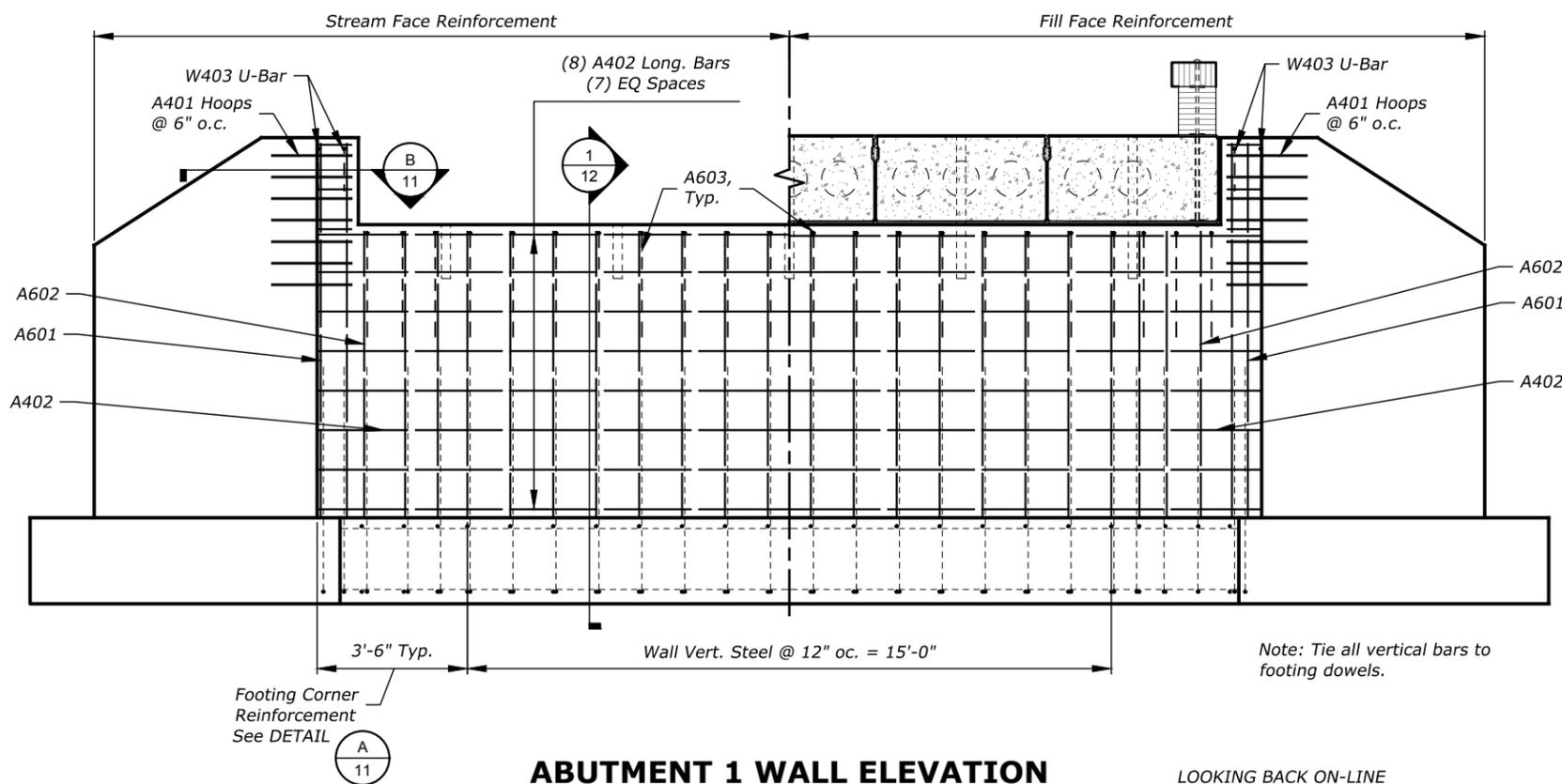
SHEET 12 OF 20



**ABUTMENT 1 WALL PLAN**

Scale: 1/4" = 1'-0"

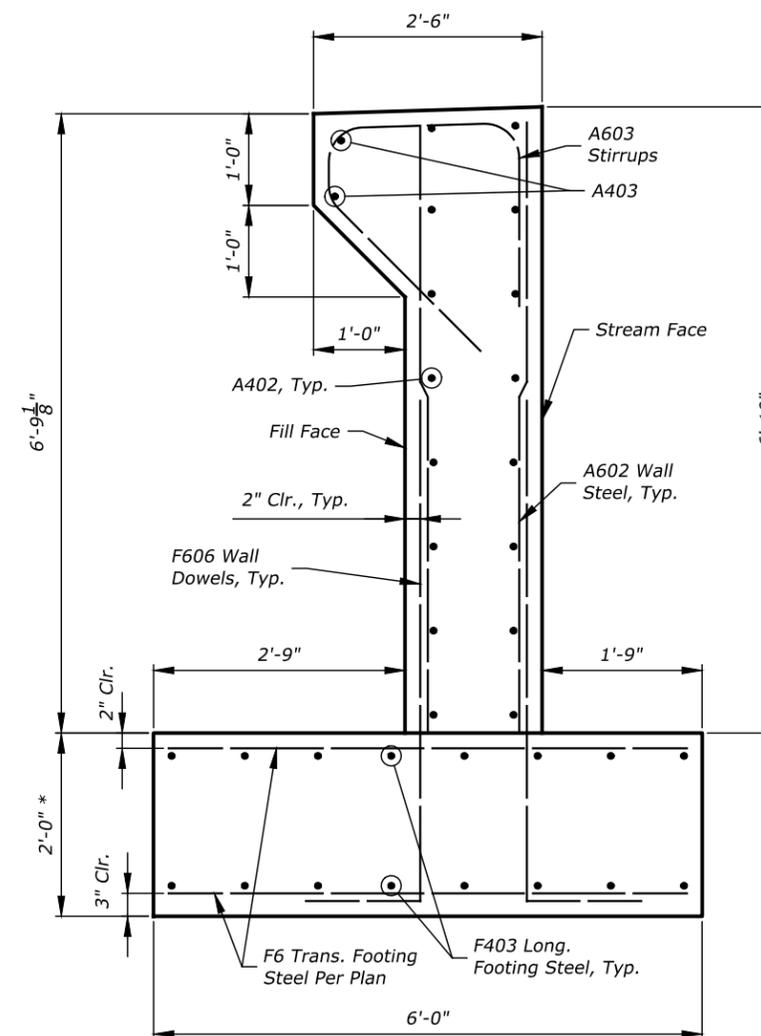
Note: All dimensions are typical unless noted otherwise.



**ABUTMENT 1 WALL ELEVATION**

Scale: 1/4" = 1'-0"

LOOKING BACK ON-LINE



**SECTION**

ABUTMENT 1 WALL SECTION

Scale: 1/2" = 1'-0"

\* See Note 1 on Sheet 9.

1/21/21 08:46 AMMON C:\USERS\AMMON\DESKTOP\7109 MULTIPLE SOUTHERN BRIDGE DESIGNS - AL, FL & ROAD\DWG\7109 TALLASEEHATCHEE CREEK 607-0.643 DETAILS.DWG.



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PROJECT NAME

**TALLASEEHATCHEE  
CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE

**ABUTMENT 2 WALL  
PLAN**

DATE

Jan-21

ARCHIVE NO.

DESIGNER

A. GROESBECK

DRAWN

A. GROESBECK

CHECKED

M. JENSEN

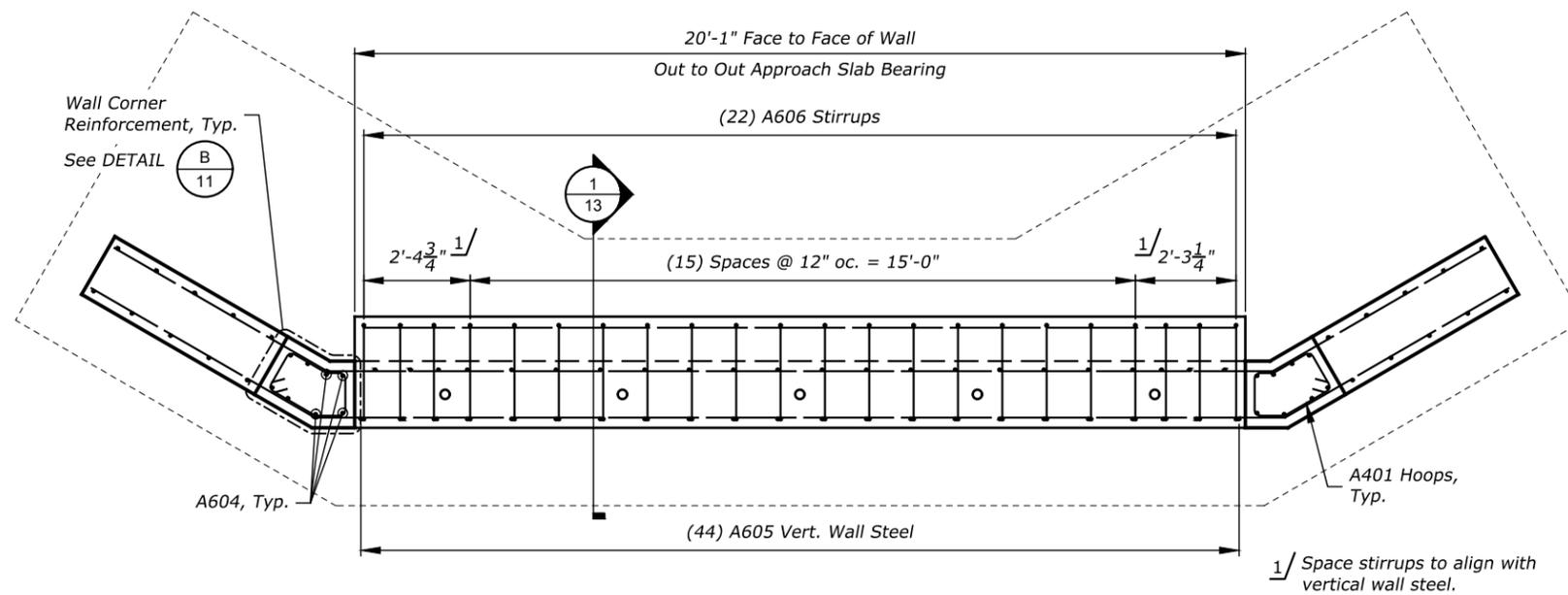
PROJECT NO.

7109

DWG SHEET NO.

**13**

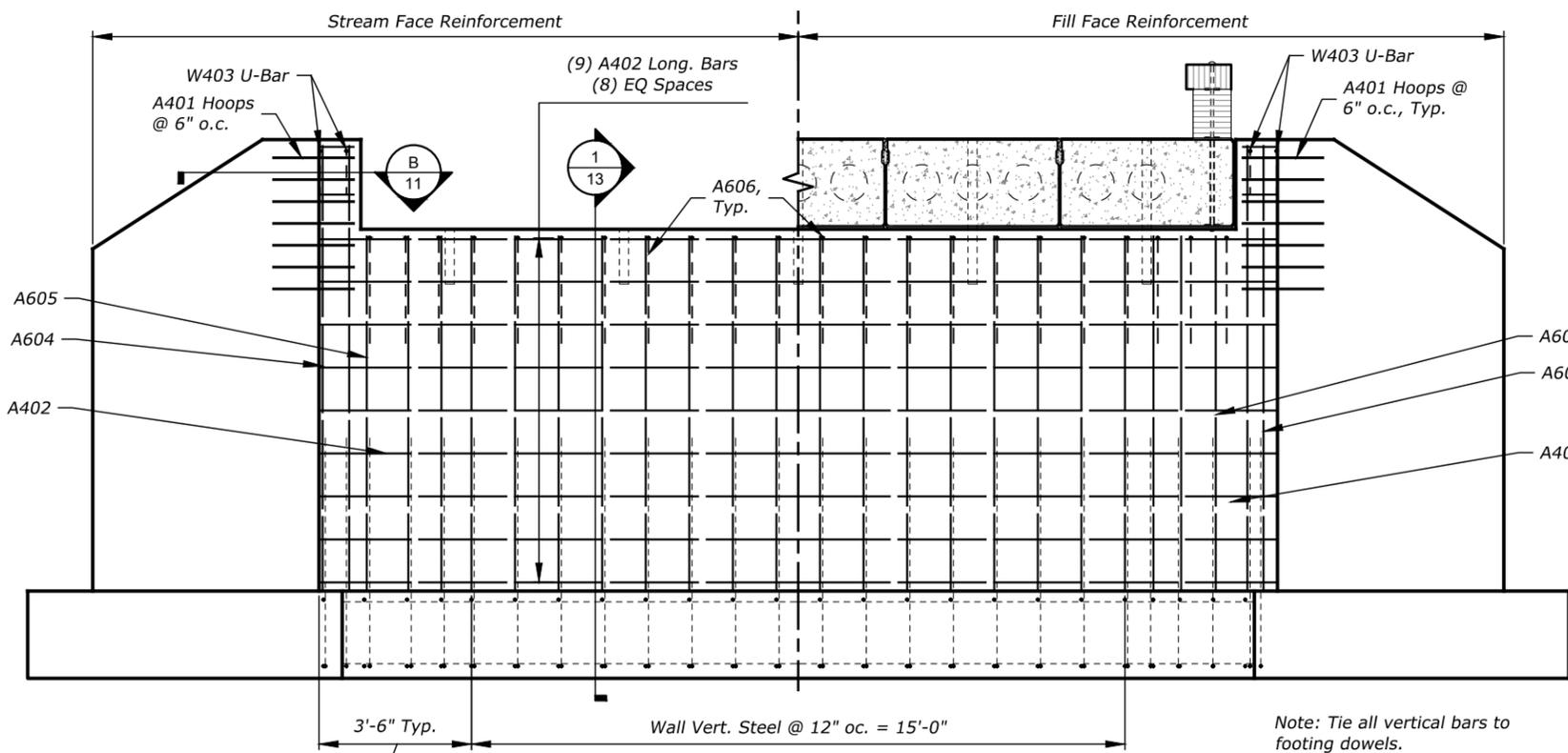
SHEET 13 OF 20



**ABUTMENT 2 WALL PLAN**

Scale: 1/4" = 1'-0"

Note: All dimensions are typical unless noted otherwise.

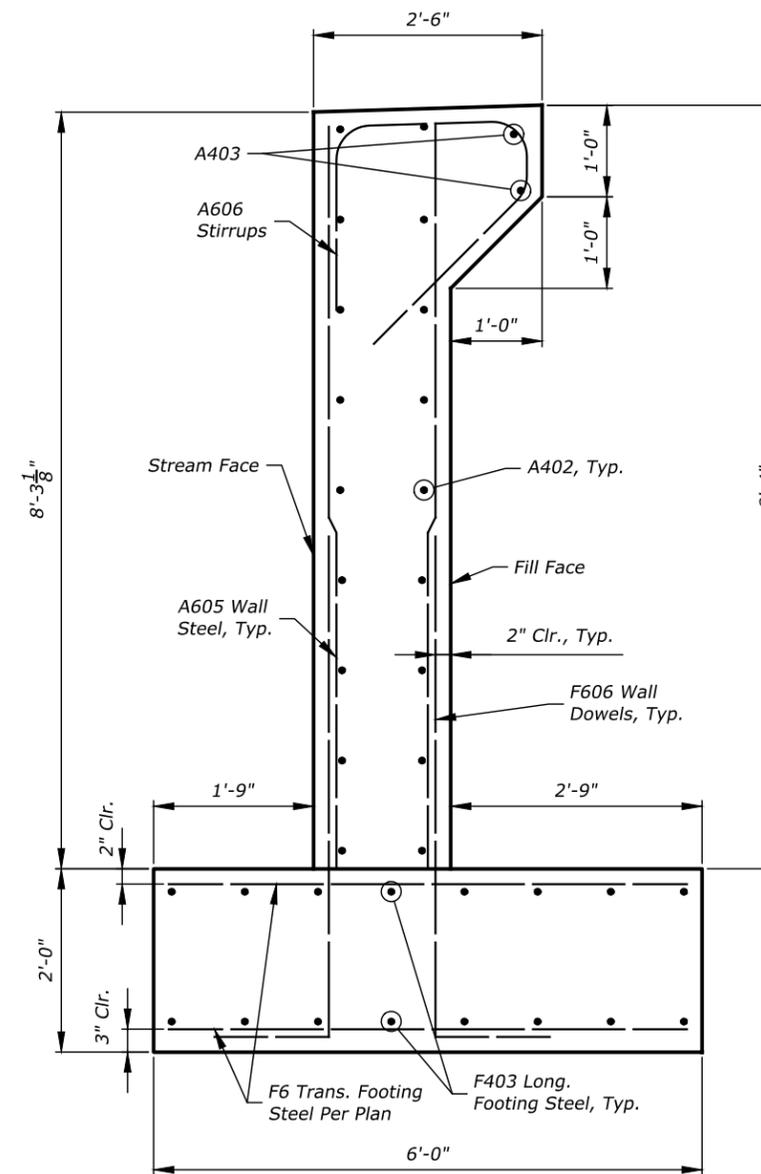


**ABUTMENT 2 WALL ELEVATION**

Scale: 1/4" = 1'-0"

LOOKING AHEAD ON-LINE

Note: Tie all vertical bars to footing dowels.



1  
13

**SECTION**

ABUTMENT 2 WALL SECTION

Scale: 1/2" = 1'-0"

\* See Note 1 on Sheet 9.

1/21/21 08:46 AMMON C:\USERS\AMMON\DESKTOP\7109 MULTIPLE SOUTHERN BRIDGE DESIGNS - AL, FL & ROAD\WG1709 TALLASEEHATCHEE CREEK 607-0.643 DETAILS.DWG.



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**REGION 8**  
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PROJECT NAME

**TALLASEEHATCHEE  
CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE

**ABUTMENT 1  
WINGWALL PLAN**

DATE

Jan-21

ARCHIVE NO.

DESIGNER

A. GROESBECK

DWG SHEET NO.

**14**

DRAWN

A. GROESBECK

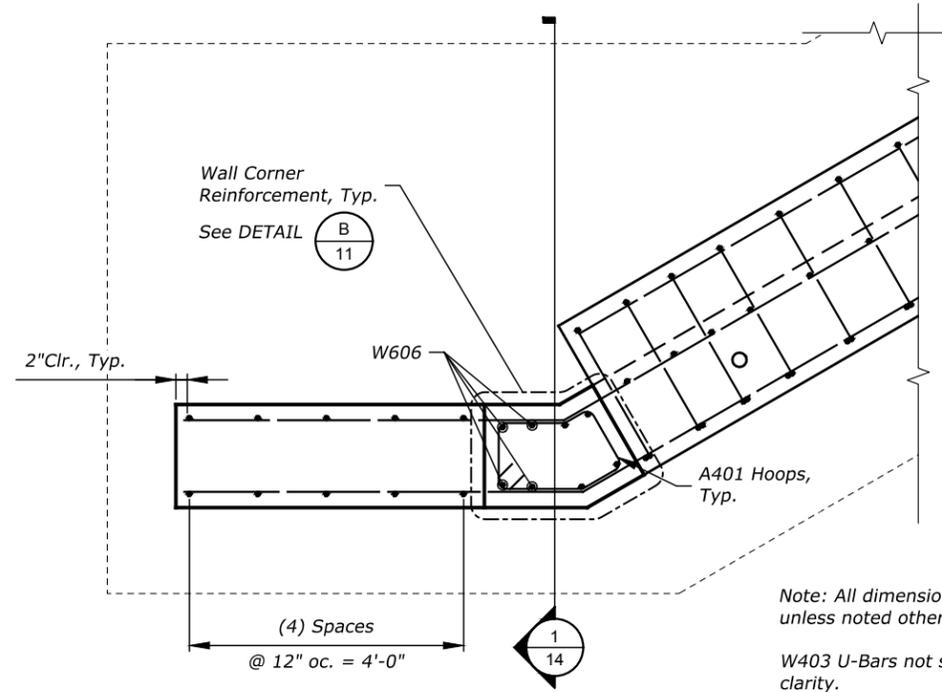
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PROJECT NO.

7109

SHEET 14 OF 20

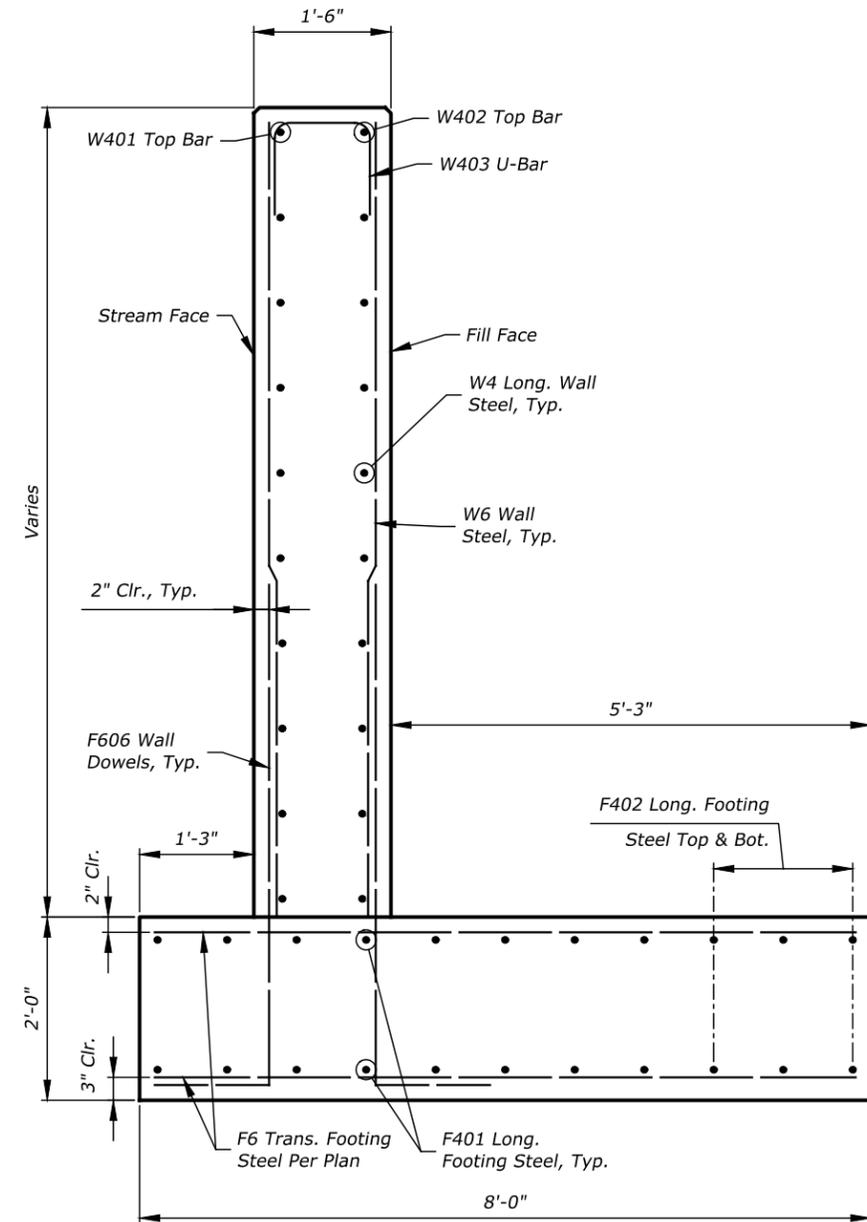


Note: All dimensions are typical unless noted otherwise.

W403 U-Bars not shown for clarity.

**ABUTMENT 1 WINGWALL PLAN**

Scale: 3/8" = 1'-0"

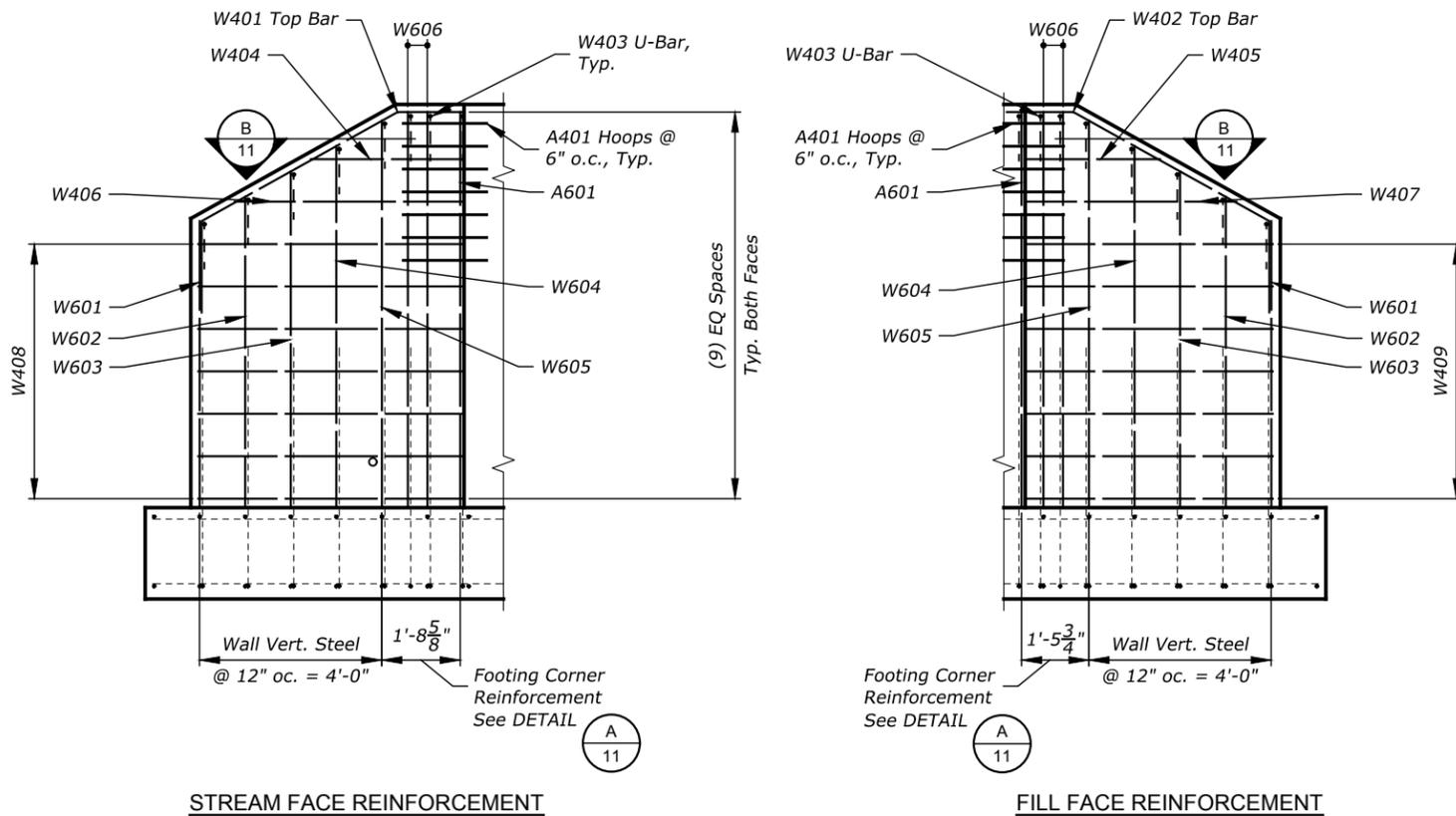


\* See Note 1 on Sheet 9.

**SECTION**  
1/14

ABUTMENT 1 WINGWALL SECTION

Scale: 1/2" = 1'-0"



STREAM FACE REINFORCEMENT

FILL FACE REINFORCEMENT

**ABUTMENT 1 WINGWALL ELEVATION**

Scale: 1/4" = 1'-0"

1/21/21 08-46 AMMON C:\USERS\AMMON\DESKTOP\7109 MULTIPLE SOUTHERN BRIDGE DESIGNS - AL, FL & ROAD\WG1709 TALLASEEHATCHEE CREEK 607-0.643 DETAILS.DWG.



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**REGION 8**  
SOUTHERN REGION

PROJECT NAME

**TALLASEEHATCHEE  
CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE

**ABUTMENT 2  
WINGWALL PLAN**

DATE

Jan-21

ARCHIVE NO.

DESIGNER

A. GROESBECK

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A. GROESBECK

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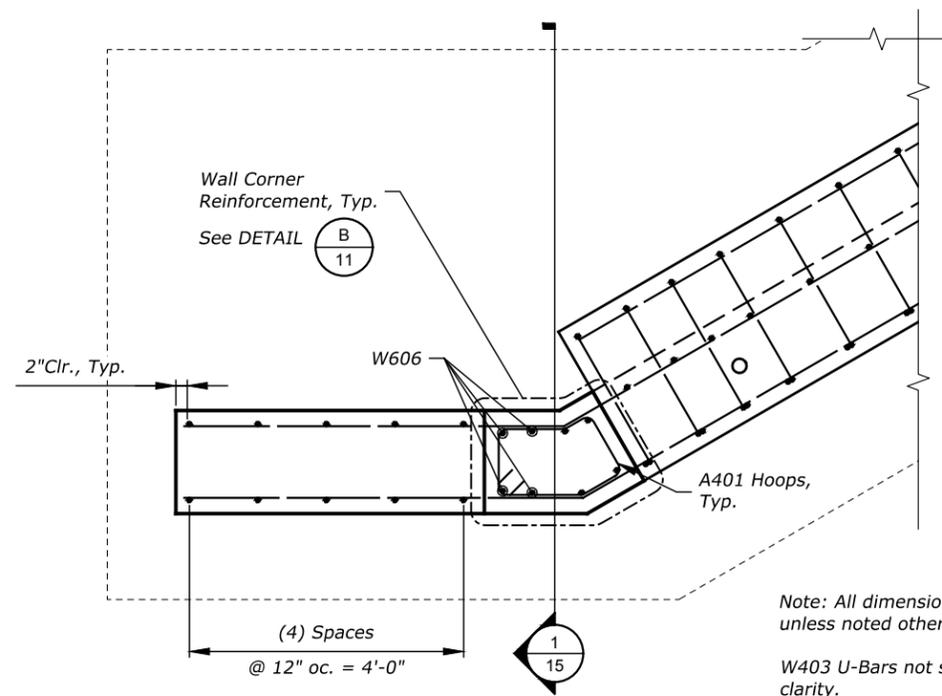
PROJECT NO.

7109

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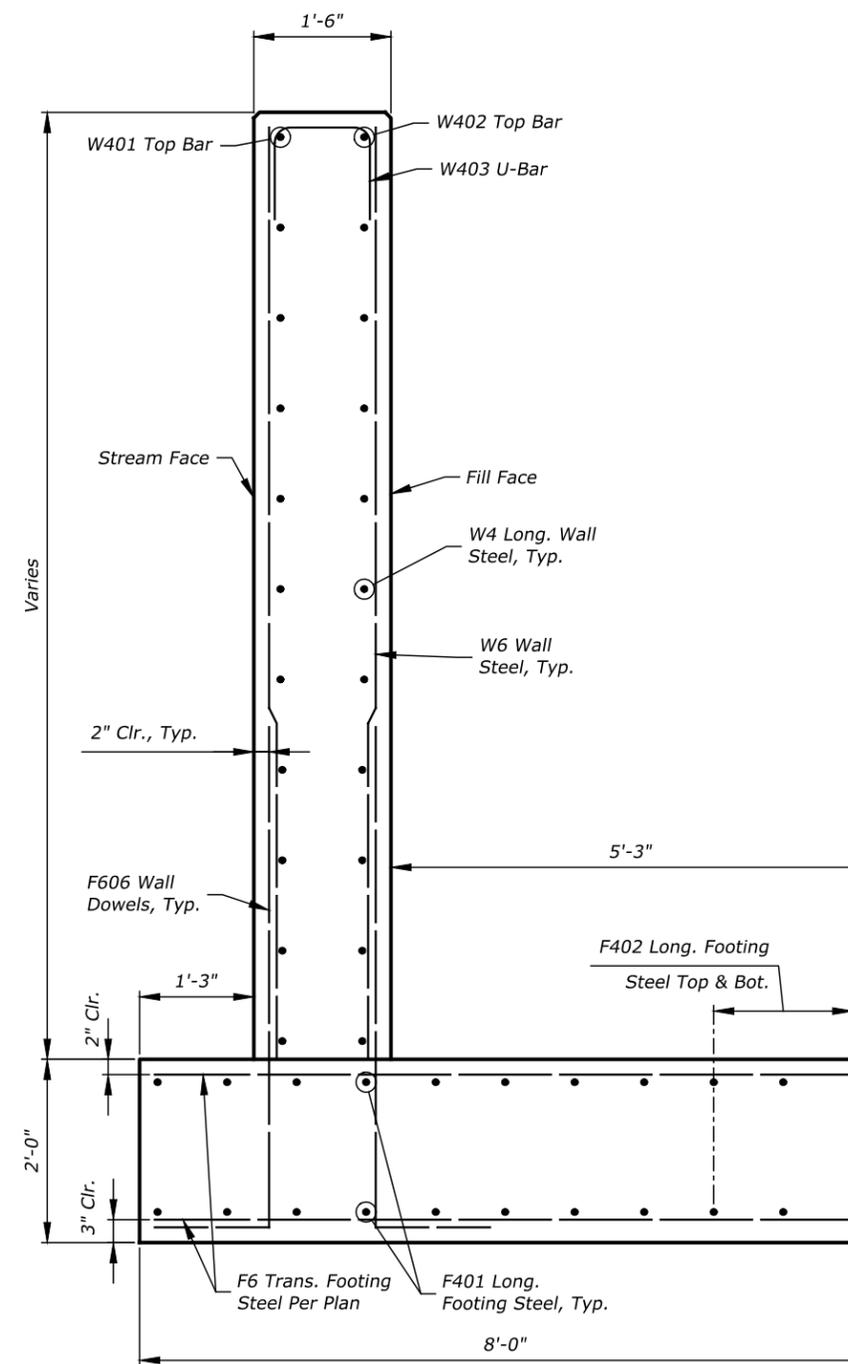
**15**

SHEET 15 OF 20

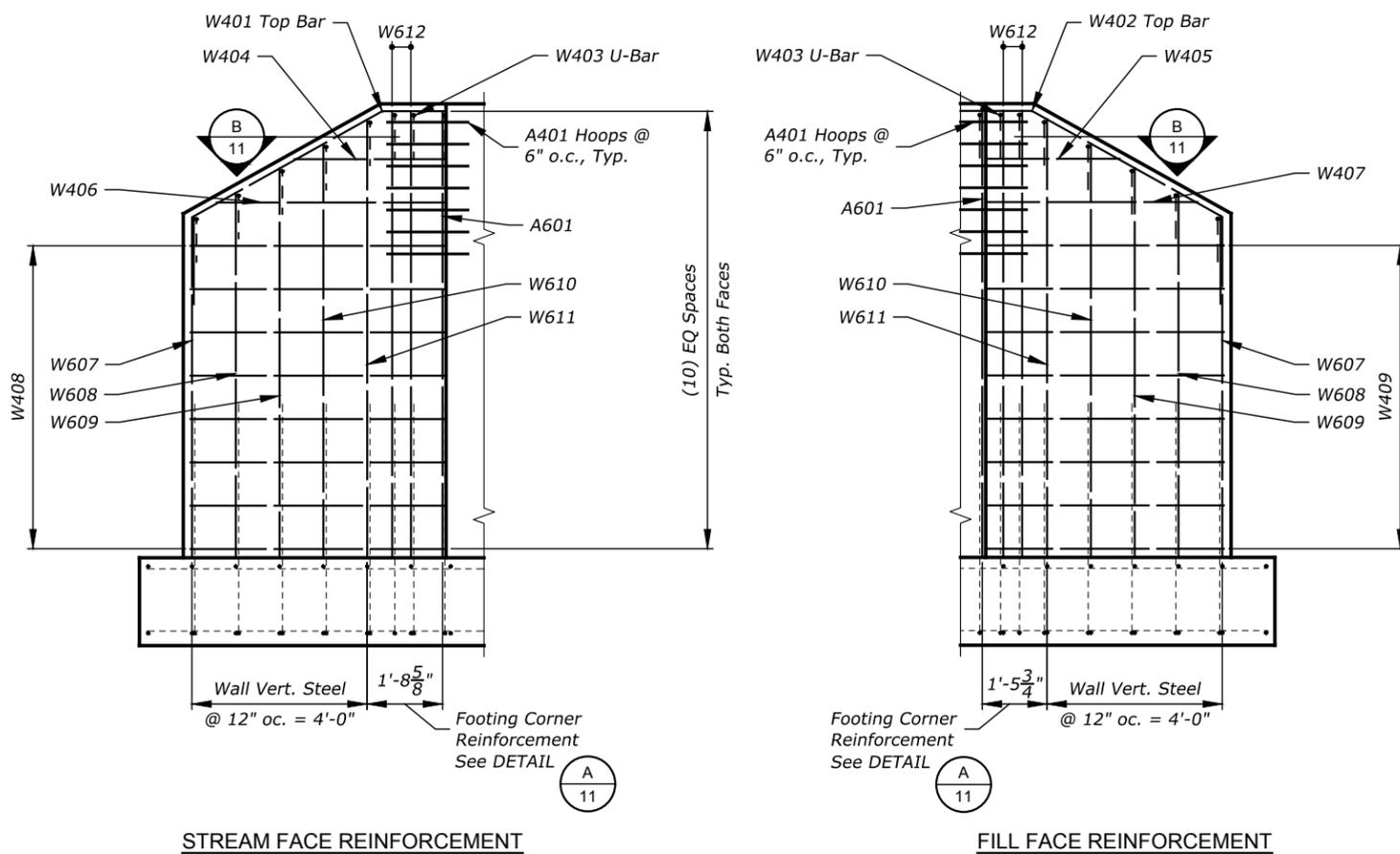


**ABUTMENT 2 WINGWALL PLAN**

Scale: 3/8" = 1'-0"



**SECTION** ABUTMENT 2 WINGWALL SECTION  
Scale: 1/2" = 1'-0"



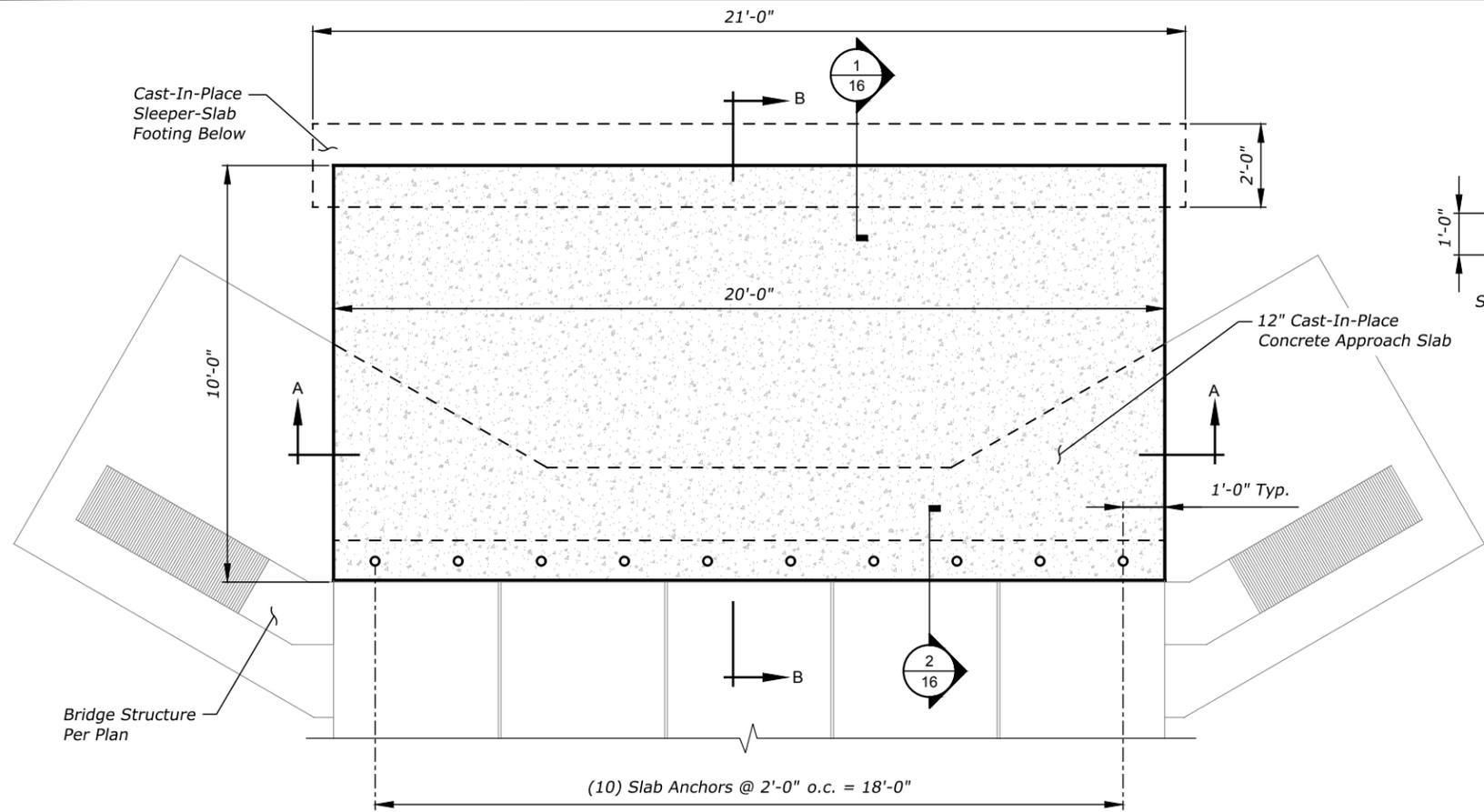
**ABUTMENT 2 WINGWALL ELEVATION**

Scale: 1/4" = 1'-0"

STREAM FACE REINFORCEMENT

FILL FACE REINFORCEMENT

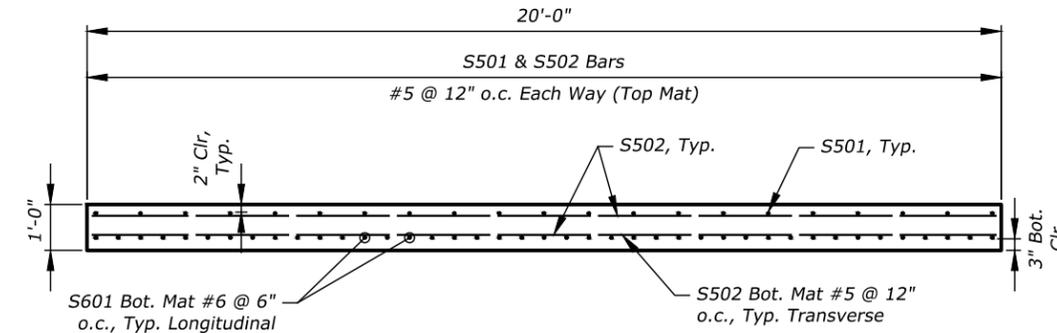
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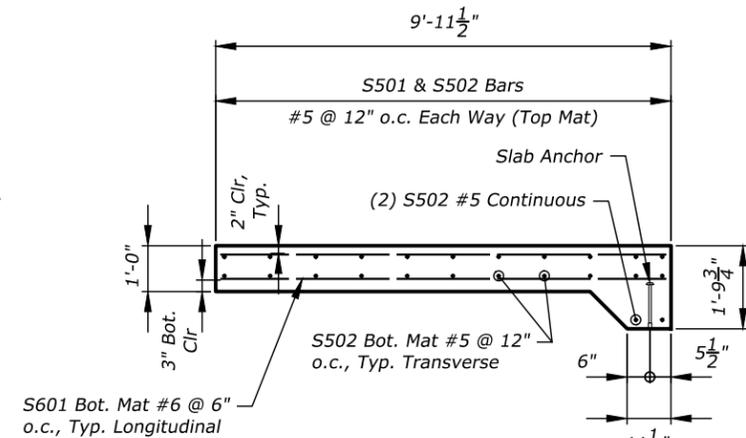
**APPROACH SLAB PLAN**

Scale: 1/4" = 1'-0"

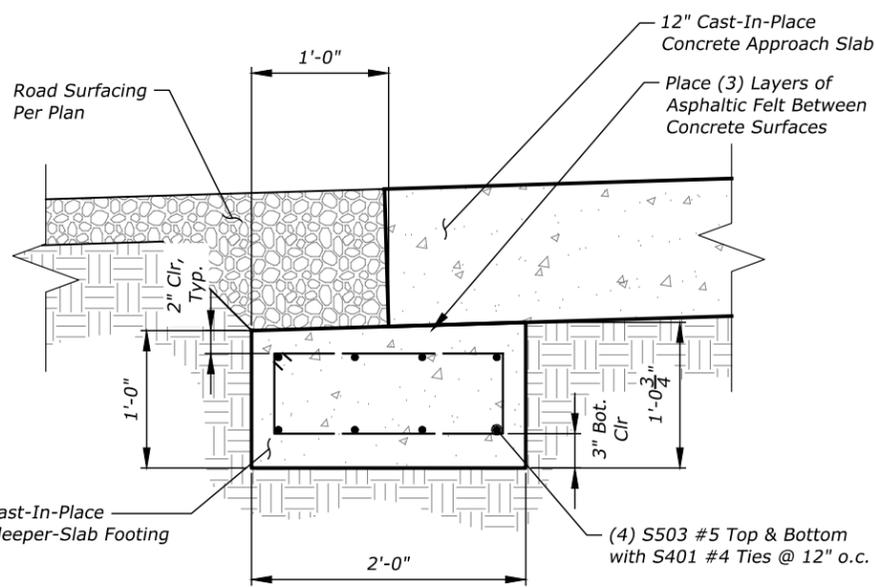
ABUTMENT 1 SHOWN  
ABUTMENT 2 SIMILAR



**SECTION A - A**



**SECTION B - B**

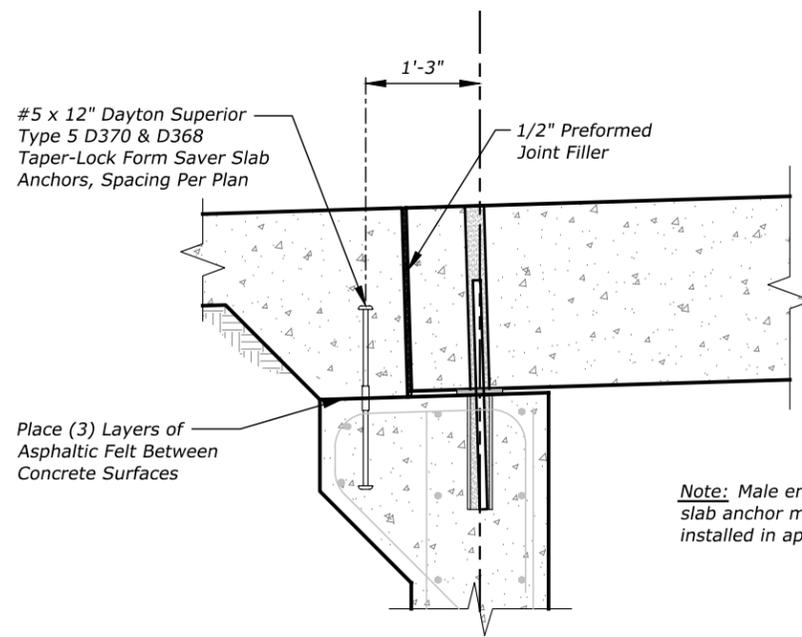


**1 SECTION**

Scale: 3/4" = 1'-0"

ABUTMENT 1 SHOWN  
ABUTMENT 2 SIMILAR

Note: Sleeper slab may be precast as a contractor option.



**2 SECTION**

Scale: 1/2" = 1'-0"

ABUTMENT 1 SHOWN  
ABUTMENT 2 SIMILAR

Note: Male end (D370) slab anchor must be installed in approach slab.



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NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE

**APPROACH SLAB  
PLAN**

DATE

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ARCHIVE NO.

DESIGNER

A. GROESBECK

DWG SHEET NO.

**16**

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A. GROESBECK

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PROJECT NO.

7109

SHEET 16 OF 20

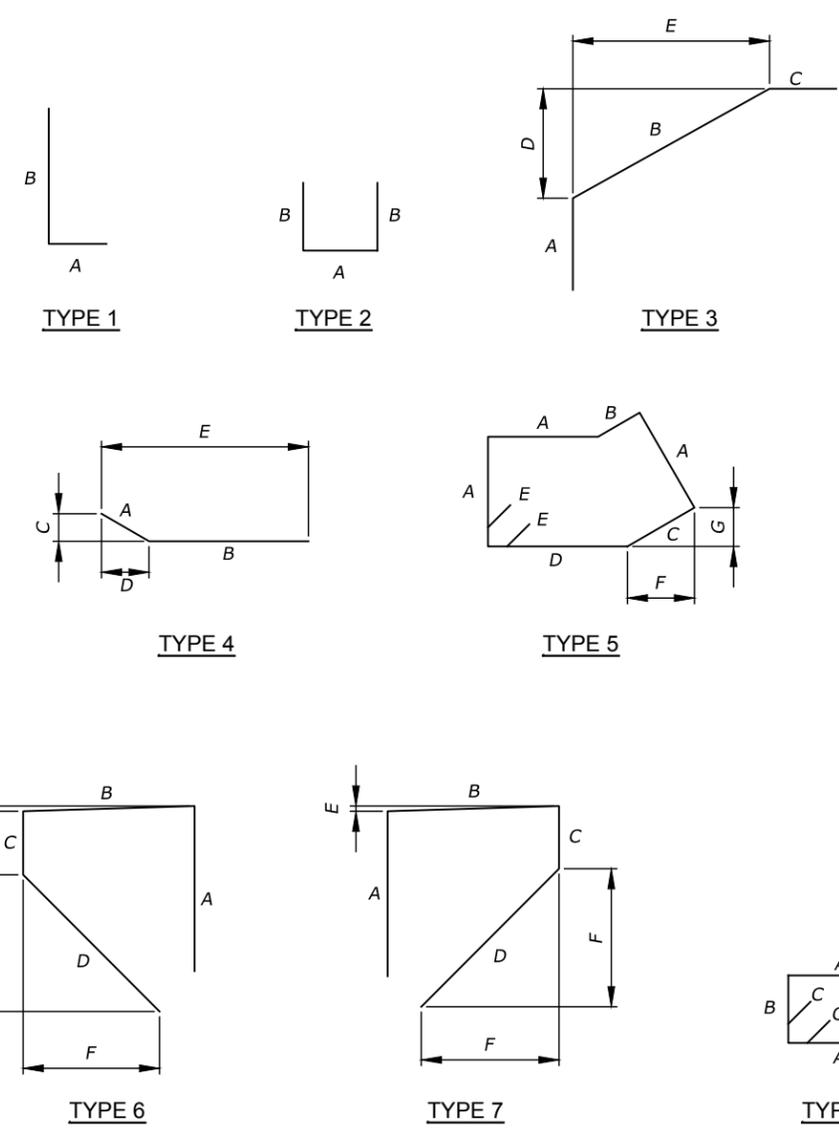
# REBAR SCHEDULE

## ABUTMENTS 1 & 2

LOCATION	MARK	BAR SIZE	NO.	TYPE	LENGTH	A	B	C	D	E	F	G
Footing	F601	6	72	Str.	7'-8"							
	F602	6	24	Str.	7'-2"							
	F603	6	8	Str.	6'-7"							
	F604	6	8	Str.	6'-0"							
	F605	6	40	Str.	5'-8"							
	F606	6	160	1	6'-6"	1'-3"	5'-3"					
	F401	4	64	Str.	8'-2"							
	F402	4	24	Str.	10'-0"							
	F403	4	32	Str.	21'-0"							
Abutment	A601	6	8	Str.	8'-8"							
	A602	6	44	Str.	6'-8"							
	A603	6	22	6	7'-2"	2'-0"	2'-1"	0'-9"	2'-4"	0'-0 3/4"	1'-8"	
	A604	6	8	Str.	10'-2"							
	A605	6	44	Str.	8'-1"							
	A606	6	22	7	7'-2"	2'-0"	2'-1"	0'-9"	2'-4"	0'-0 3/4"	1'-8"	
	A401	4	28	5	5'-10"	0'-11 1/2"	0'-5"	0'-8"	1'-2 1/2"	0'-4"	0'-7"	0'-4"
	A402	4	34	Str.	21'-10"							
	A403	4	4	Str.	19'-8"							
Wingwall	W601	6	4	Str.	6'-3"							
	W602	6	4	Str.	6'-10"							
	W603	6	4	Str.	7'-4"							
	W604	6	4	Str.	7'-11"							
	W605	6	4	Str.	8'-6"							
	W606	6	8	Str.	8'-8"							
	W607	6	4	Str.	7'-9"							
	W608	6	4	Str.	8'-4"							
	W609	6	4	Str.	8'-10"							
	W610	6	4	Str.	9'-5"							
	W611	6	4	Str.	10'-0"							
	W612	6	8	Str.	10'-2"							
	W401	4	4	3	8'-4"	2'-0"	4'-11"	1'-5"	2'-4 3/4"	4'-3 1/2"		
	W402	4	4	3	8'-1"	2'-0"	4'-11"	1'-2"	2'-4 3/4"	4'-3 1/2"		
	W403	4	36	2	3'-2"	1'-0"	1'-2"	1'-0"				
	W404	4	4	4	4'-0 3/4"	0'-8 3/4"	3'-4"	0'-4 1/2"	0'-7 1/2"	4'-0"		
	W405	4	4	4	3'-5 1/2"	0'-5 1/2"	3'-0"	0'-2 3/4"	0'-4 3/4"	3'-5"		
	W406	4	4	4	5'-8 3/4"	0'-8 3/4"	5'-0"	0'-4 1/2"	0'-7 1/2"	5'-8"		
	W407	4	4	4	5'-1 1/2"	0'-5 1/2"	4'-8"	0'-2 3/4"	0'-4 3/4"	5'-1"		
	W408	4	30	4	7'-10"	2'-0"	5'-10"	1'-0"	1'-8 3/4"	7'-6 3/4"		
	W409	4	30	4	7'-6"	2'-0"	5'-6"	1'-0"	1'-8 3/4"	7'-4"		

## APPROACH SLABS 1 & 2

MARK	BAR SIZE	NO.	TYPE	LENGTH	A	B	C
S401	4	44	8	5'-2"	1'-8"	0'-7"	0'-4"
S501	5	42	Str.	9'-8"			
S502	5	48	Str.	19'-9"			
S503	5	16	Str.	20'-8"			
S601	6	82	Str.	9'-8"			



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SOUTHERN REGION

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CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE  
**REBAR SCHEDULE**

DATE  
**Jan-21**

ARCHIVE NO.

DESIGNER <b>A. GROESBECK</b>	DWG SHEET NO. <b>17</b>
DRAWN <b>A. GROESBECK</b>	

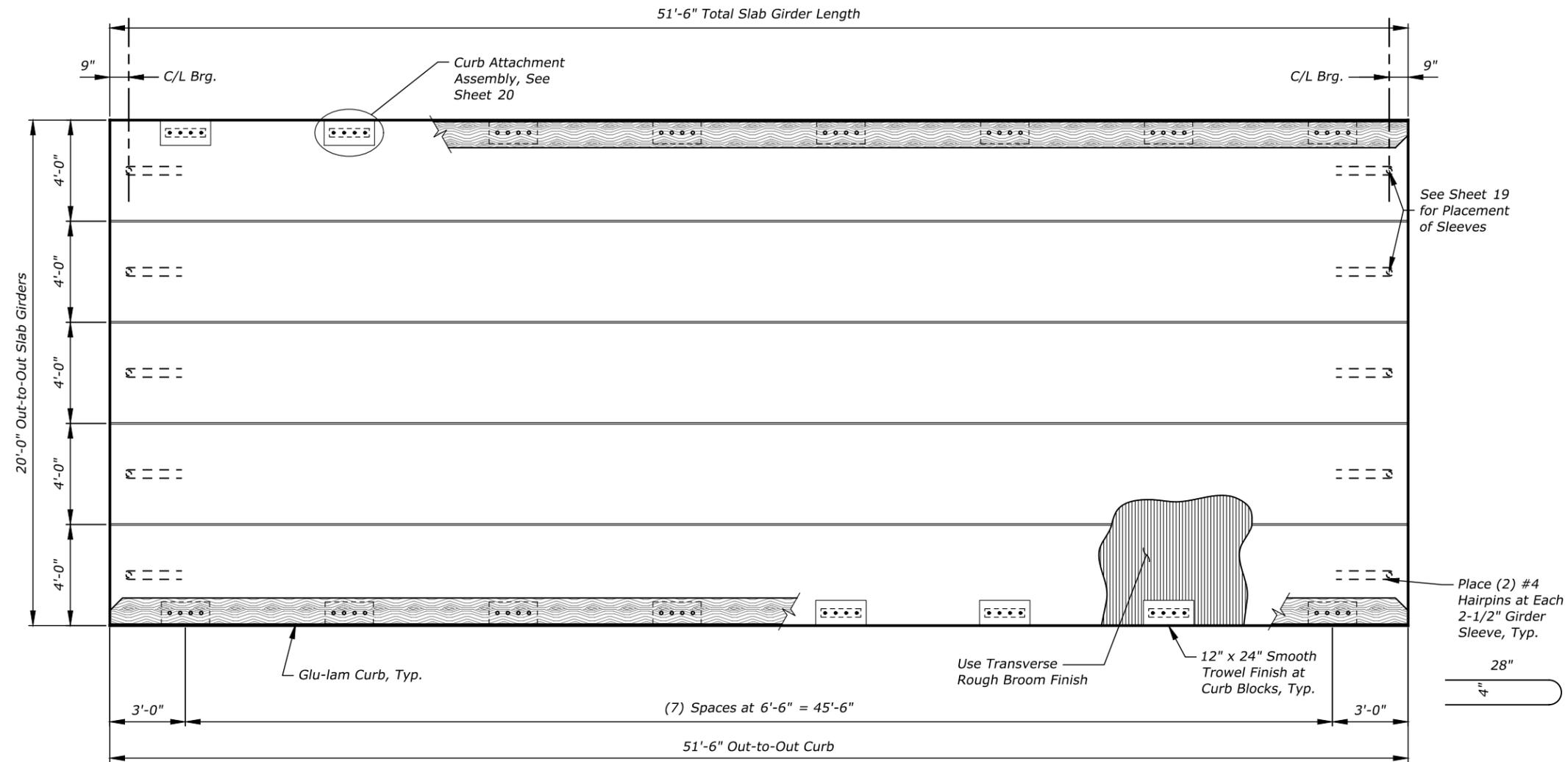
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**M. JENSEN**

PROJECT NO.  
**7109**

SHEET 17 OF 20

1/21/21 08:46 AMMON C:\USERS\AMMON\DESKTOP\7109 MUL TIPLE SOUTHERN BRIDGE DESIGNS - AL, FL & RO/DWG/7109 TALLASEEHATCHEE CREEK 607-0.643 DETAILS.DWG.

1/21/21 08:46 AMMON C:\USERS\AMMON\DESKTOP\7109 MULTIPLE SOUTHERN BRIDGE DESIGNS - AL, FL & ROIDD\07109 TALLASEEHATCHEE CREEK 607-0.643 DETAILS.DWG.



### SUPERSTRUCTURE PLAN

Scale: 3/16" = 1'-0"

### PRESTRESSED BEAM NOTES

Pretensioning is the only acceptable method of prestressing for this project.

Provide the final design for all prestressed reinforcement and non-prestressed reinforcement in the section shown on this sheet. Verify that the allowable stress and ultimate strength requirements are met at all stages of construction. The design documents must bear the seal of a Professional Engineer licensed in Alabama. Submit calculations, load rating, and shop drawings in accordance with Section 553 of the Standard Specifications at least 30 days prior to casting any members. See GENERAL NOTES on Sheet 2 for additional design and material specifications.

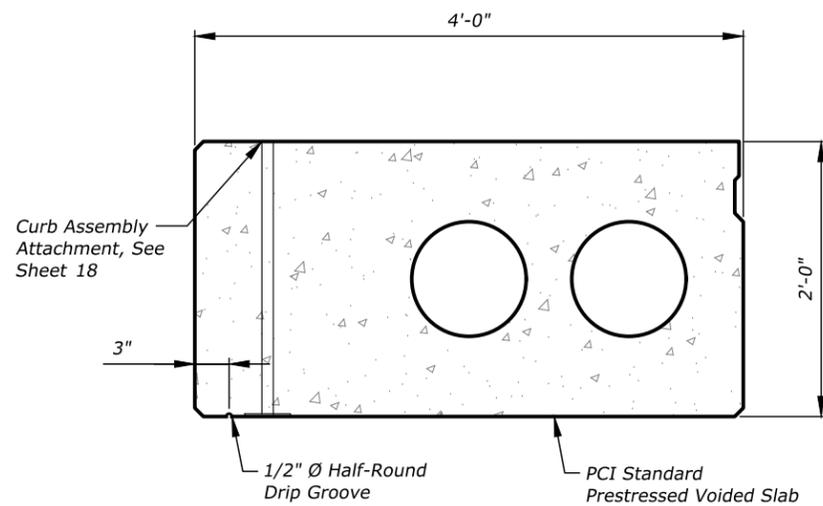
Design in accordance with the AASHTO LRFD Bridge Design Specifications, 8th Edition. Design requirements are:

1. HL-93 Live Load with Impact
2. Superimposed dead load is 35 PSF for a future wearing surface. Superimposed dead load may be assumed to be equally distributed to girders.
3. Assume moderate corrosive conditions for tensile stress limits at Service Limit State after losses.
4. Either approximate or refined methods for estimating prestress losses may be used.

**FINISHING CONCRETE:** Finish the bottoms of all slabs and the exterior edges of exterior slabs in accordance with the specifications except a concrete gray epoxy mortar using AASHTO M235 Class II Epoxy Resin Adhesive may be used instead of the specified sand-cement mortar to reduce curing time. Rub the epoxy mortar with cement prior to hardening. Finish the slab ends so that all holes or acceptable rock pockets are patched and the strands are cut off flush or burned back.

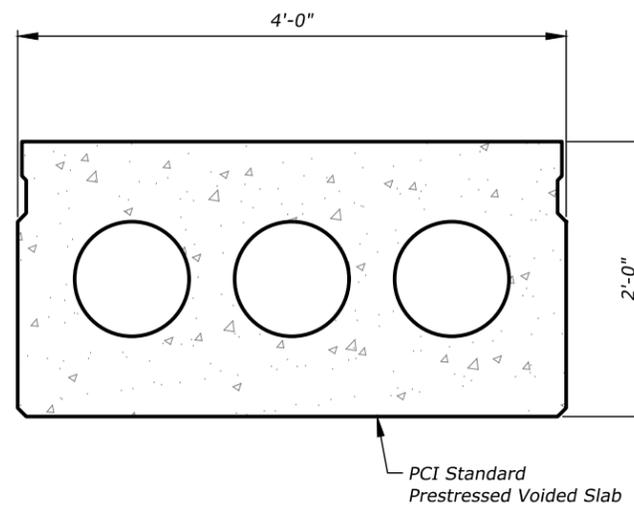
**ALTERNATE SUPERSTRUCTURE SECTION:** Alternate prestressed or precast concrete sections may be proposed. The alternate section must provide the minimum clear opening between curbs shown on Sheet 5. Maintain the finished grade elevation and make any elevation adjustments within 3" to the abutment elevations. The Contractor is responsible for revisions required to the details shown in these drawings. Submit all revisions with the shop drawings, design calculations, and load rating.

**GIRDER INTERCONNECTION:** Girders shall be connected by weld ties or transverse post tensioning rods. Contractor shall submit connection detail as part of the shop drawings.



### EXTERIOR GIRDER

Scale: 3/4" = 1'-0"



### INTERIOR GIRDER

Scale: 3/4" = 1'-0"



United States Department of Agriculture  
Forest Service

**REGION 8**  
SOUTHERN REGION

PROJECT NAME

**TALLASEEHATCHEE  
CREEK BRIDGE  
REPLACEMENT  
NFSR 607-0.643**

NATIONAL FORESTS  
IN ALABAMA

TALLADEGA  
RANGER DISTRICT

DRAWING  
TITLE

**SUPERSTRUCTURE  
PLAN**

DATE

Jan-21

ARCHIVE NO.

DESIGNER

A. GROESBECK

DWG SHEET NO.

**18**

DRAWN

A. GROESBECK

CHECKED

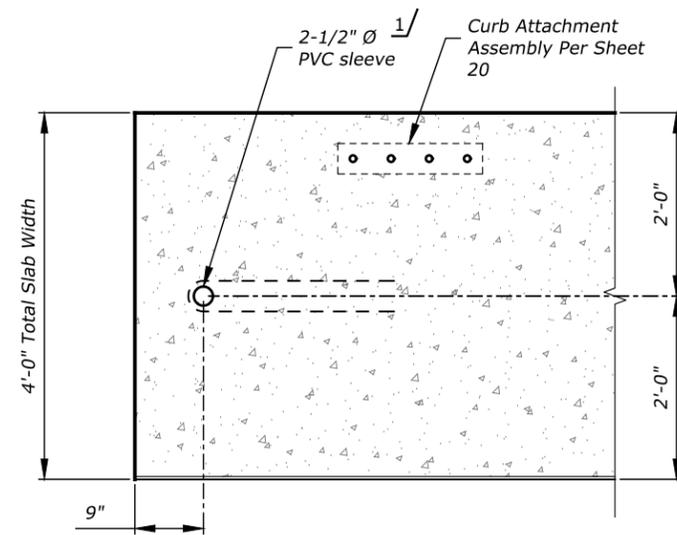
M. JENSEN

PROJECT NO.

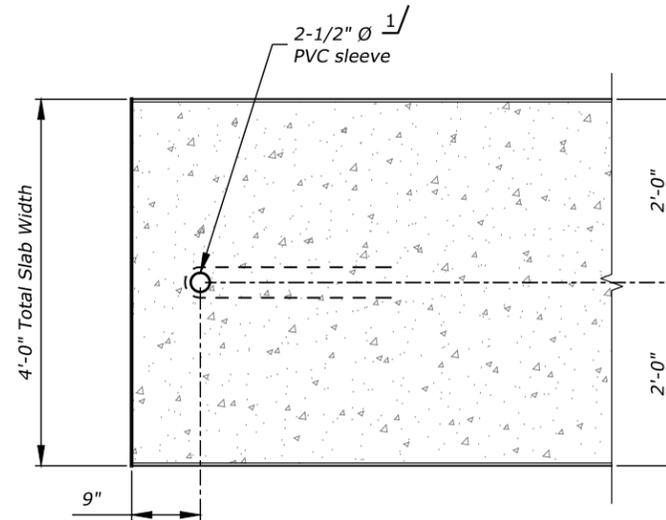
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SHEET 18 OF 20

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**EXTERIOR SLAB PLAN**



**INTERIOR SLAB PLAN**

<sup>1/</sup> Remove sleeve and clean resulting blackout prior to shipping beam. Fabricator may use post tensioning duct in lieu of PVC to form blockouts where PVC sleeves are to be removed. P/T duct may be left in place.

**A** **DETAIL** SLAB PLAN  
19 Scale: 1/2" = 1'-0"



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**NFSR 607-0.643**

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TITLE

**SUPERSTRUCTURE**  
**DETAILS**

DATE

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**A. GROESBECK**

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DRAWING  
TITLE

CURB DETAILS

DATE

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A. GROESBECK

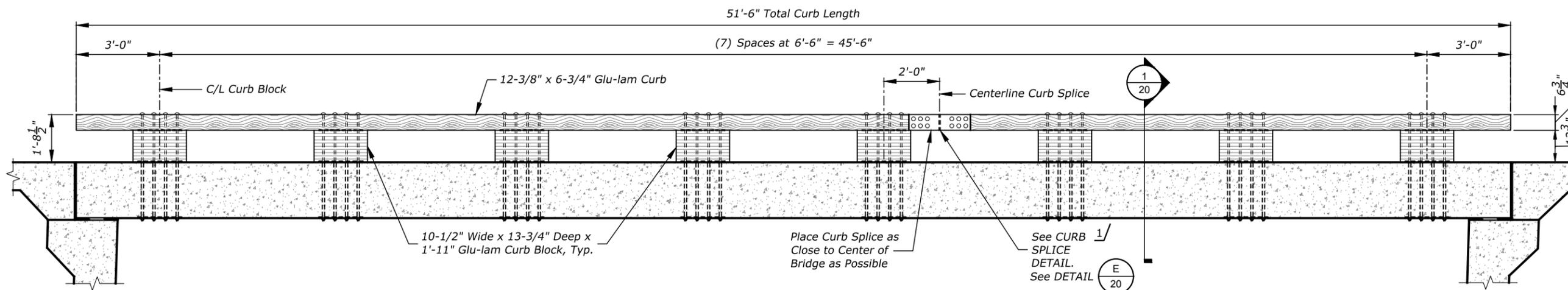
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M. JENSEN

PROJECT NO.

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SHEET 20 OF 20

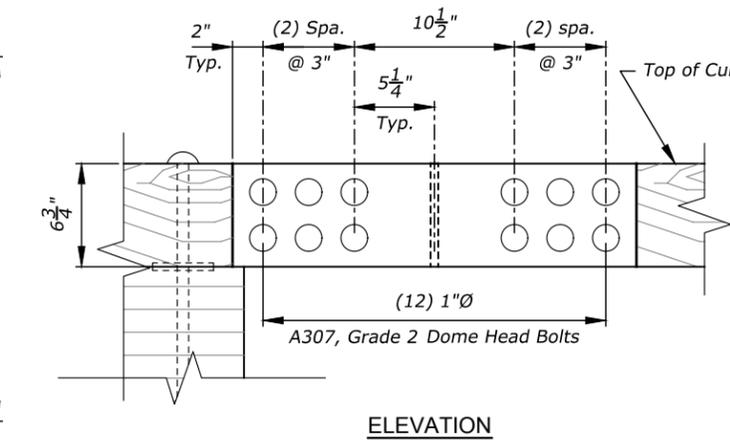
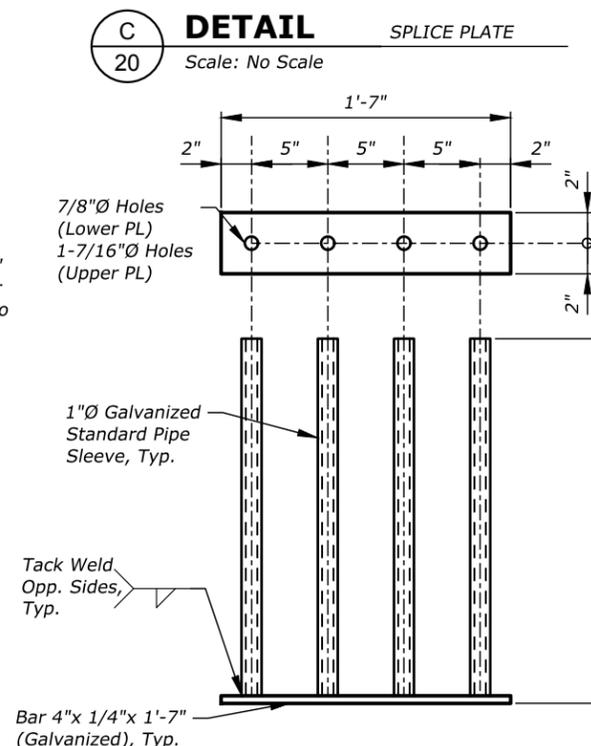
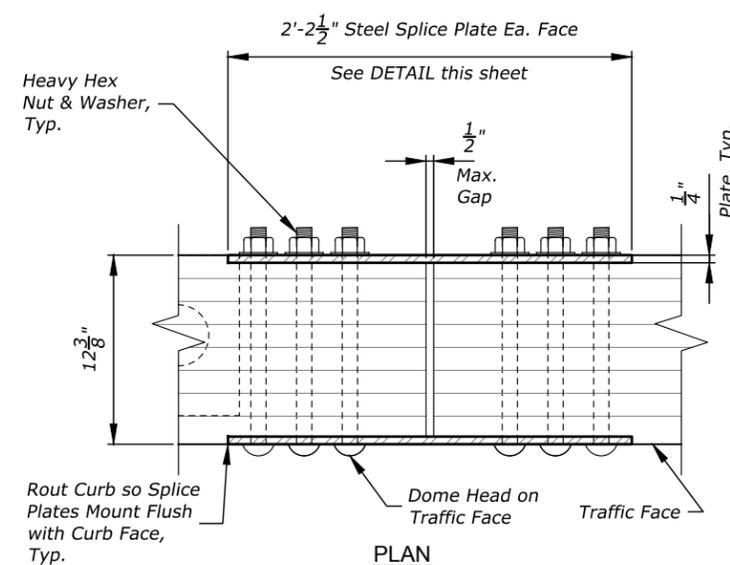
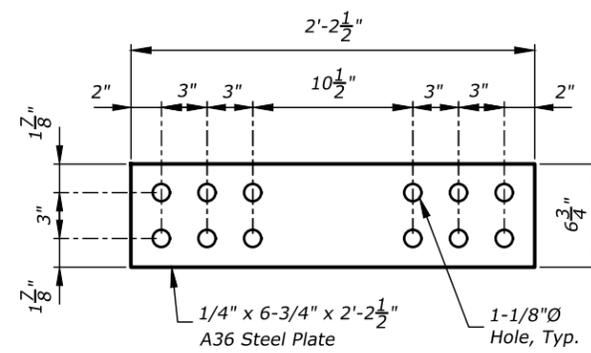
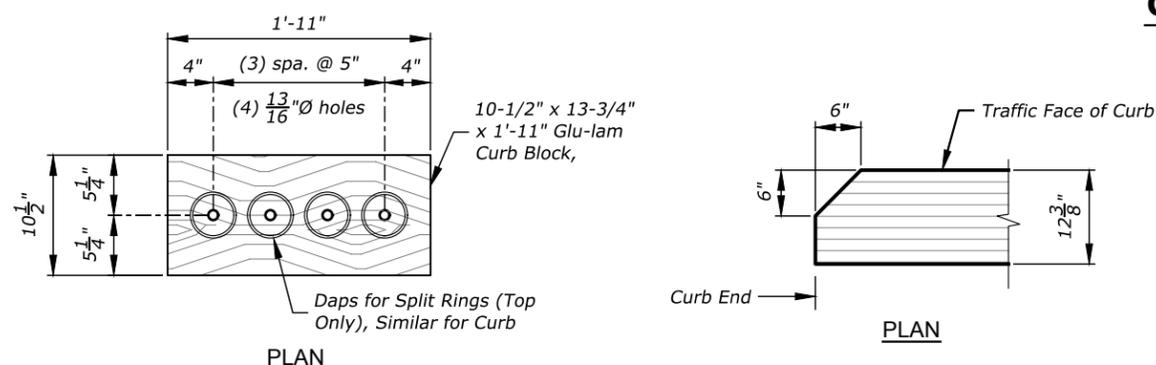


**CURB ELEVATION**

Scale: 1/4" = 1'-0"

1/ Only one splice allowed per span.  
Curb may be supplied full length.

NOTE: PRE-DRILL ALL HOLES  
IN CURB & CURB BLOCKS.

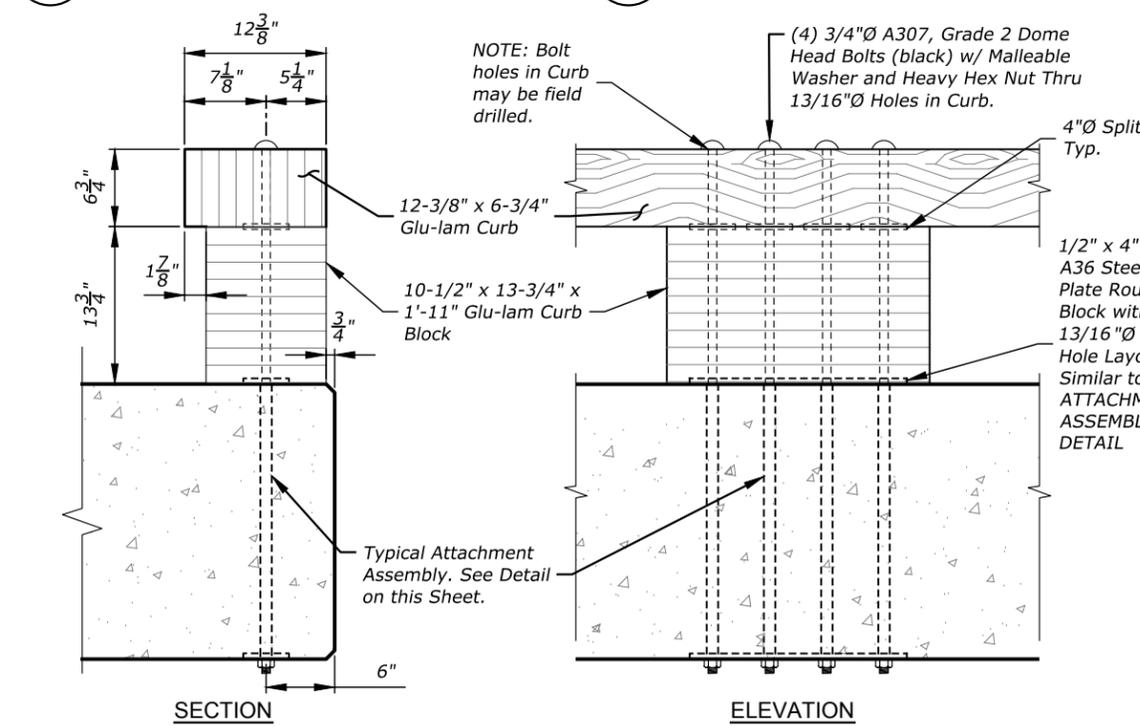


**D DETAIL CURB ATTACHMENT ASSEMBLY**  
Scale: No Scale

**E DETAIL CURB SPLICE**  
Scale: No Scale

**A DETAIL CURB BLOCK**  
Scale: No Scale

**B DETAIL TYPICAL CURB END**  
Scale: No Scale



**1 SECTION CURB CONNECTION**  
Scale: No Scale

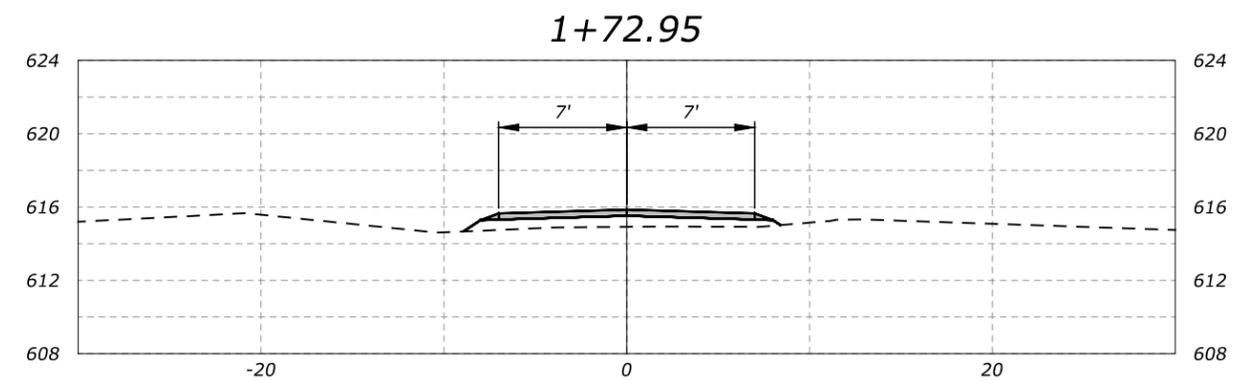
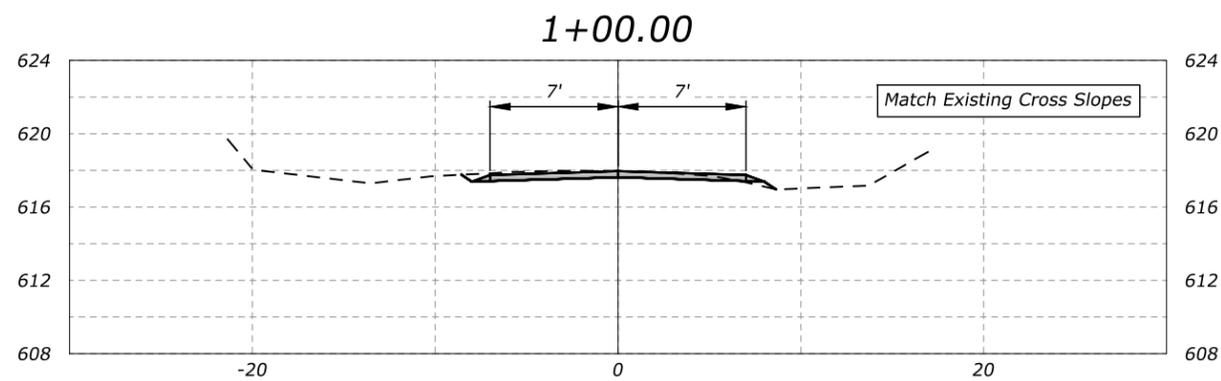
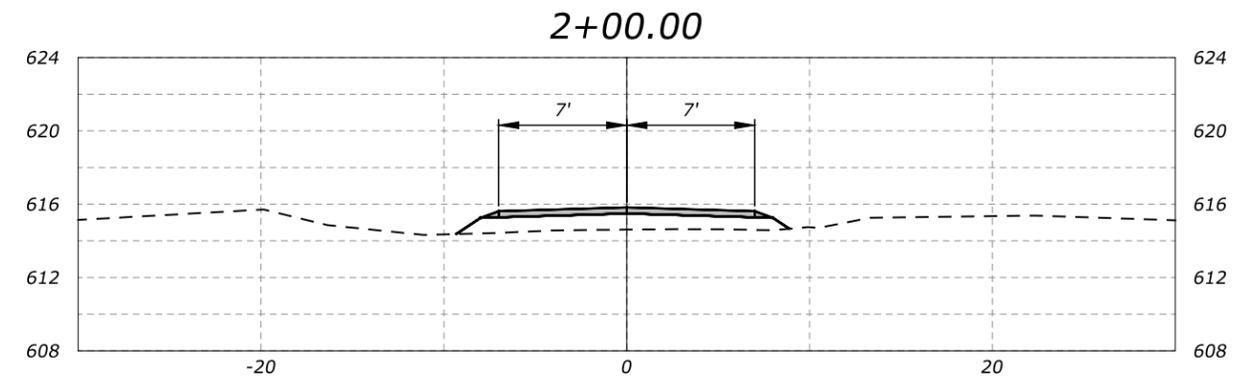
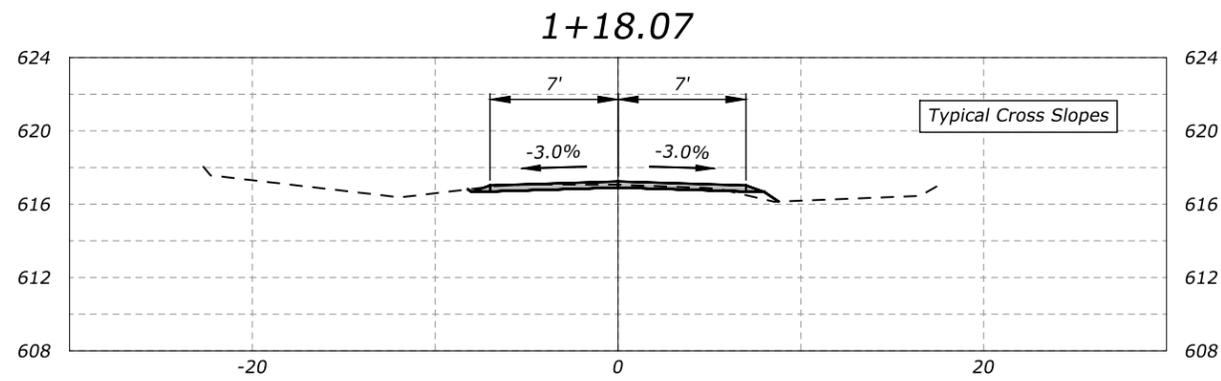
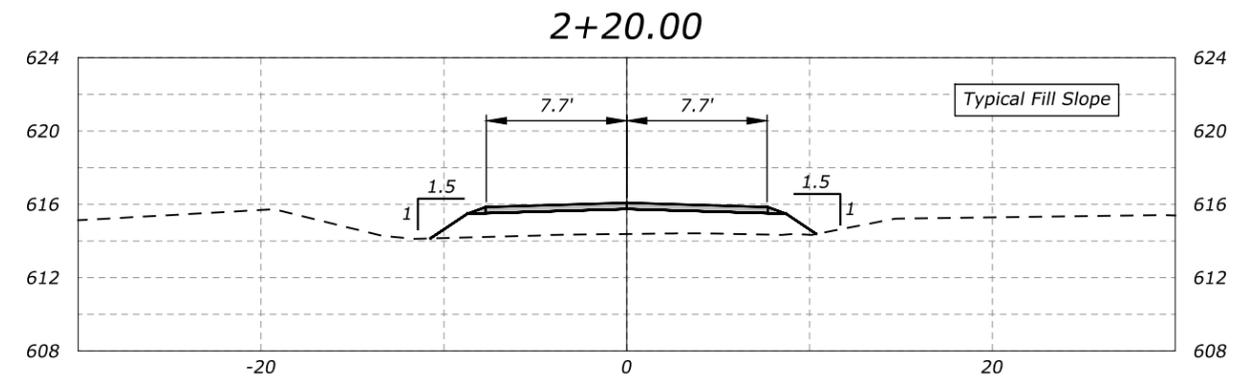
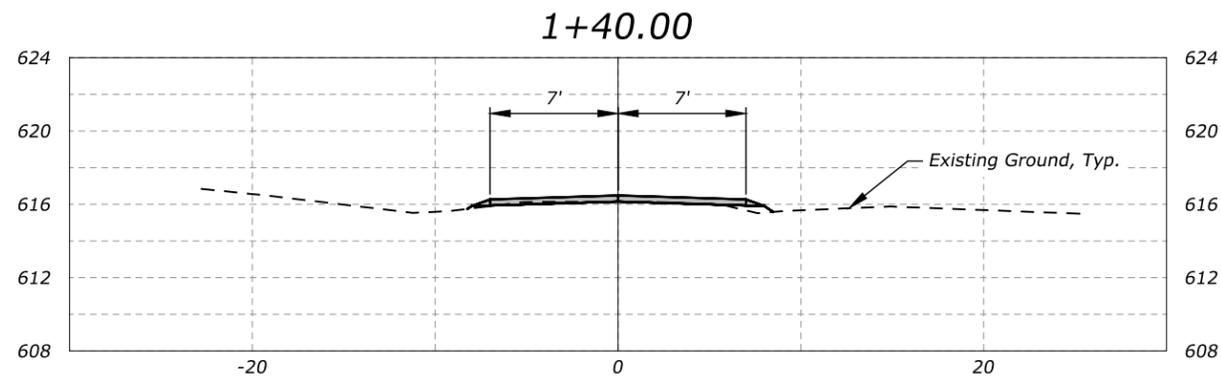
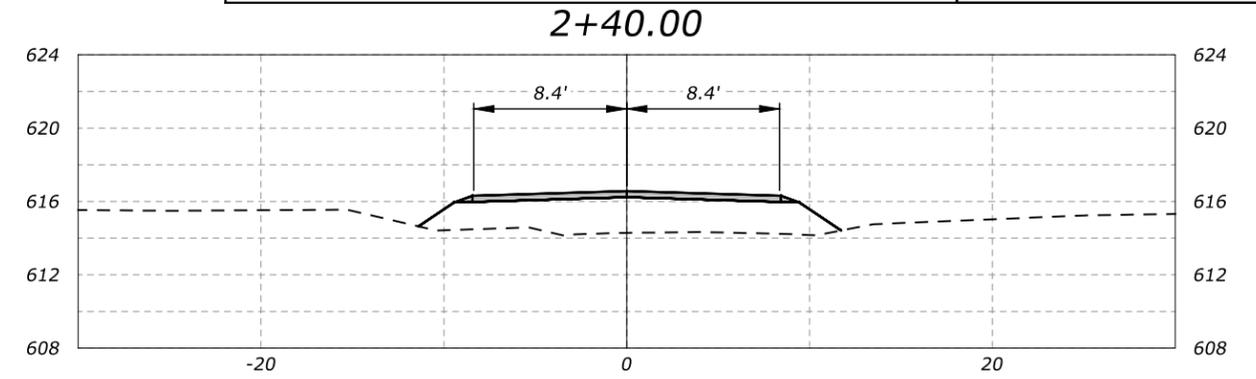
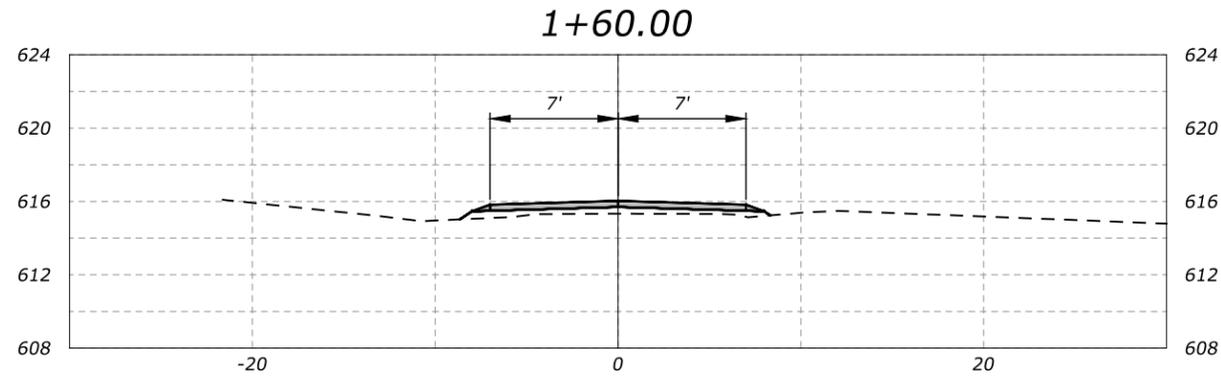
**ELEVATION CURB ATTACHMENT ASSEMBLY**  
Scale: No Scale

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**BRIDGE 607-0.643  
REPLACEMENT  
ROAD CROSS SECTIONS**

PREPARED BY : **DJ & D** ENGINEERS  
PLANNERS  
SURVEYORS

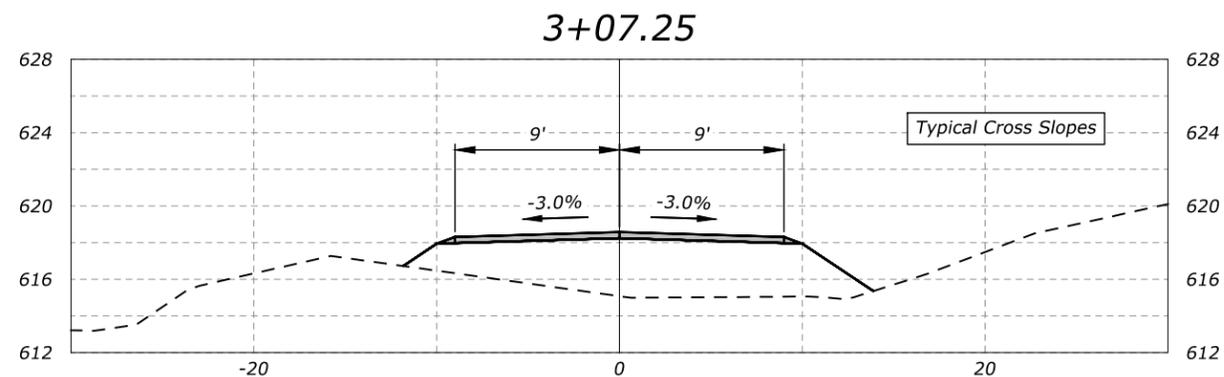
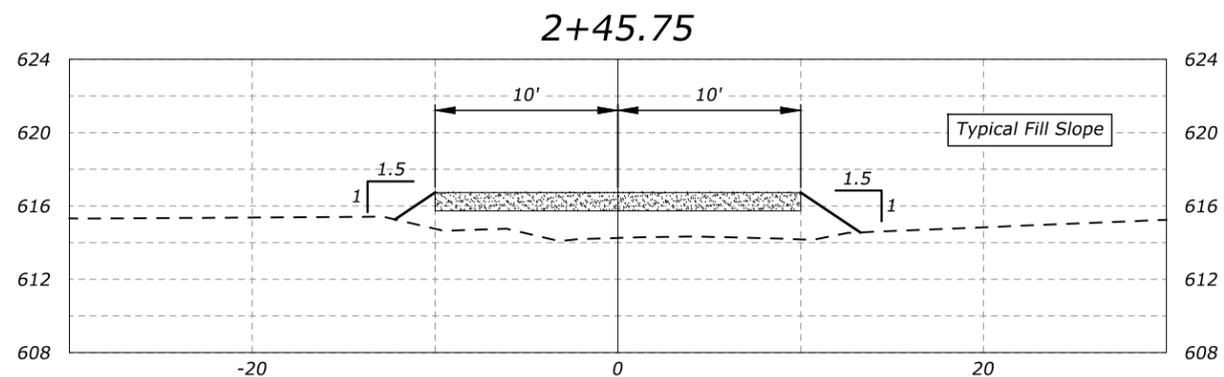
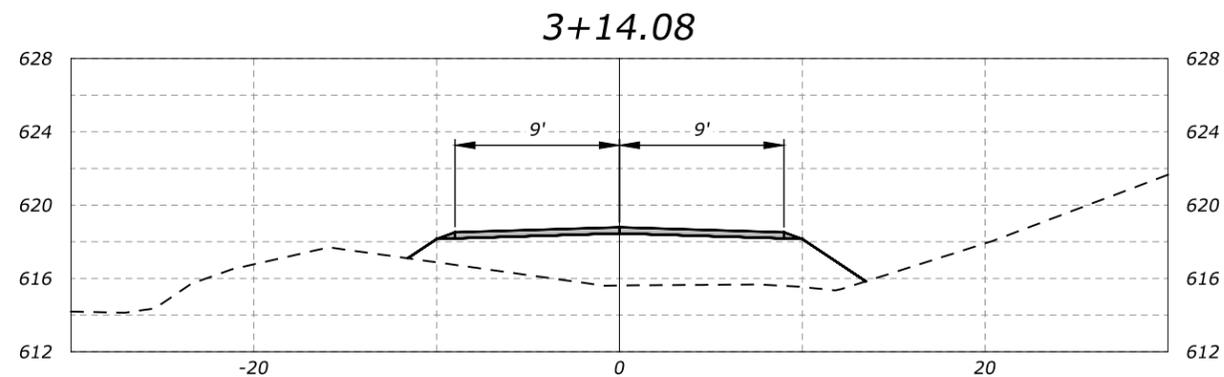
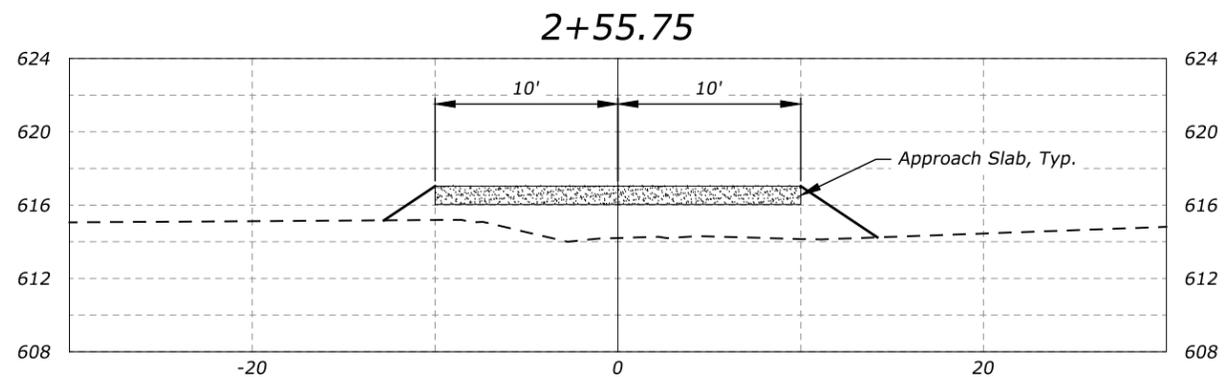
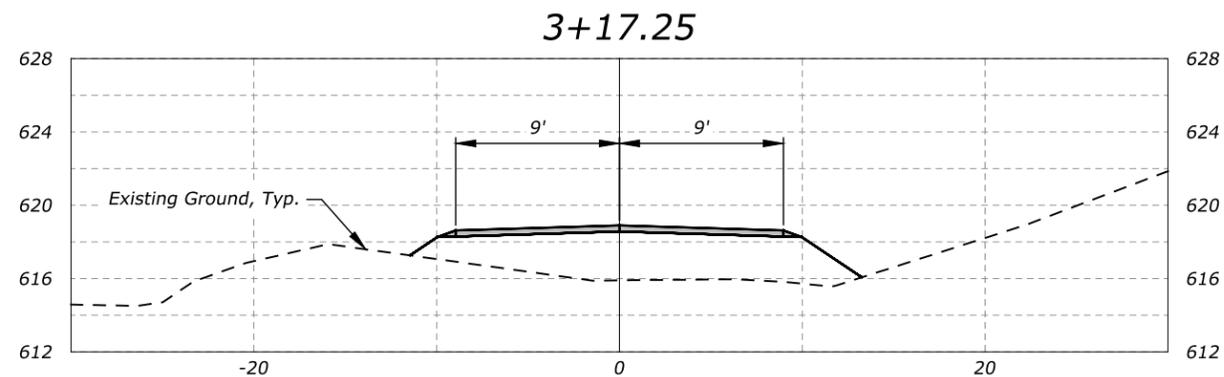
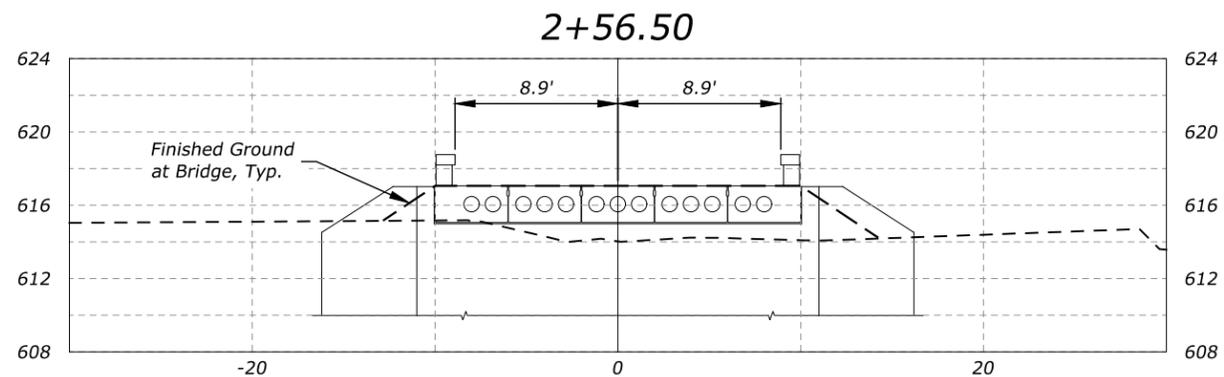
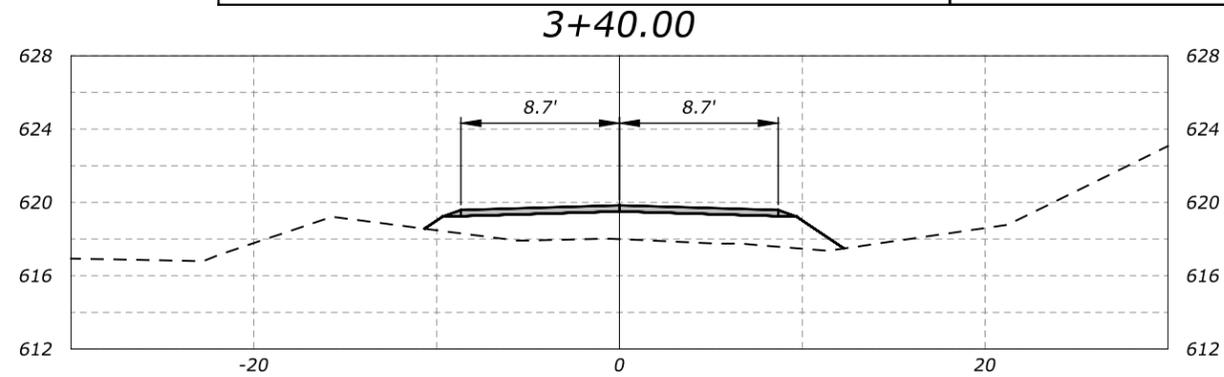
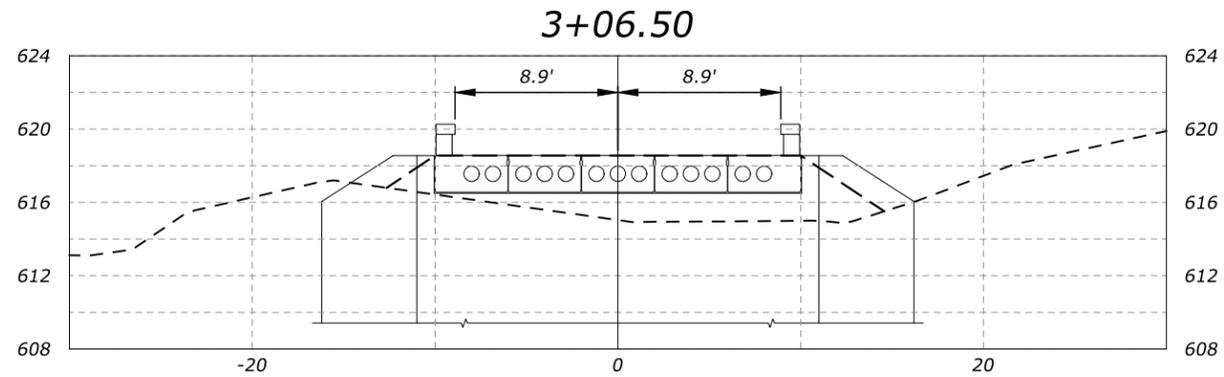
SHEET XS1 OF XS3



**BRIDGE 607-0.643  
REPLACEMENT  
ROAD CROSS SECTIONS**

PREPARED BY : **DJ & A**  
ENGINEERS  
PLANNERS  
SURVEYORS

SHEET XS2 OF XS3

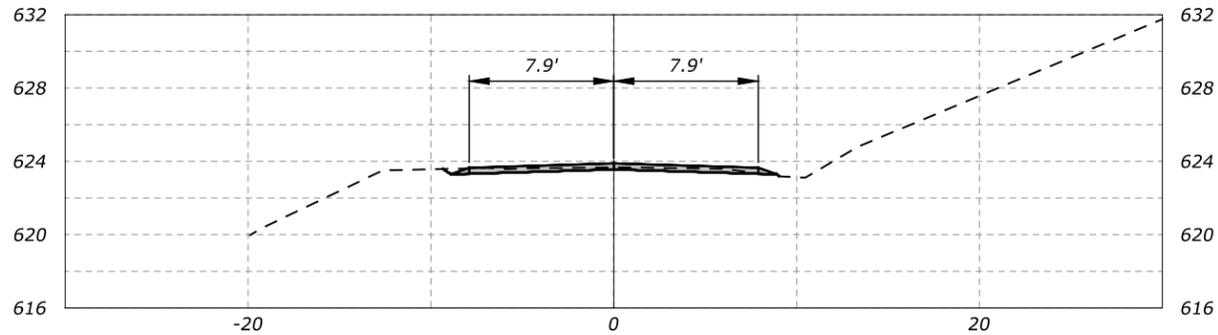


**BRIDGE 607-0.643  
REPLACEMENT  
ROAD CROSS SECTIONS**

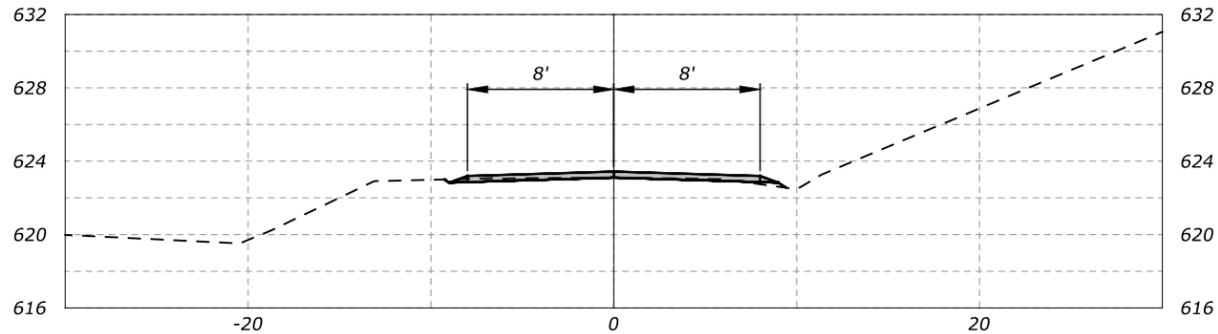
PREPARED BY : **DJ & A**  
ENGINEERS  
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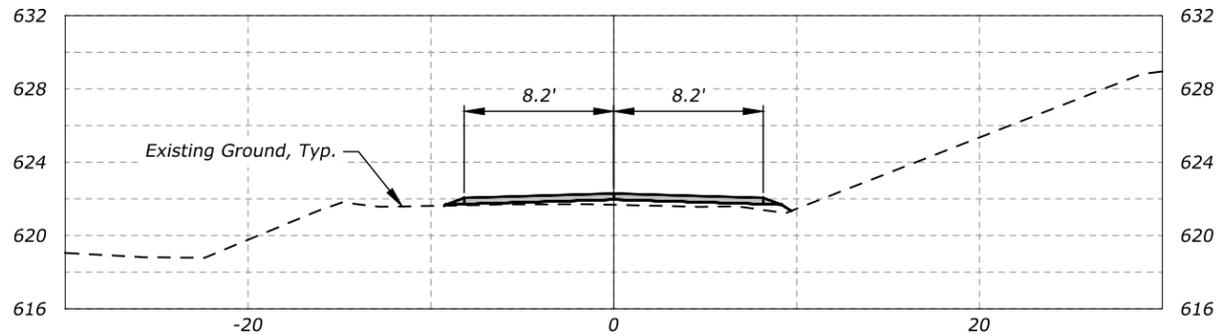
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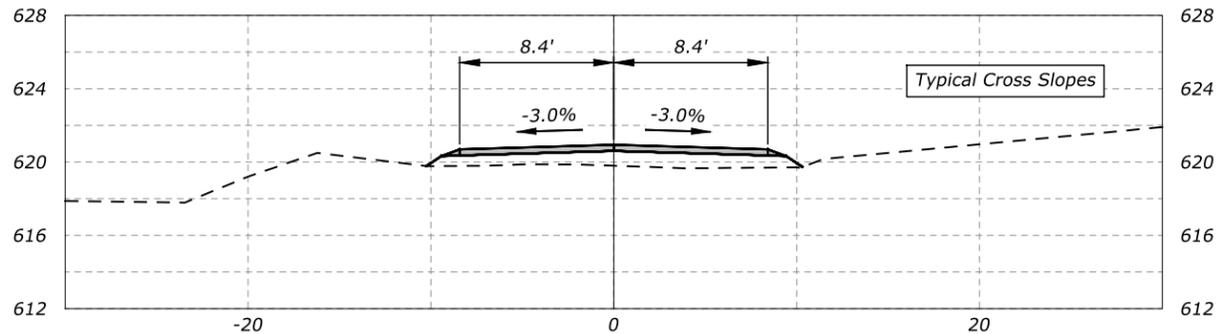
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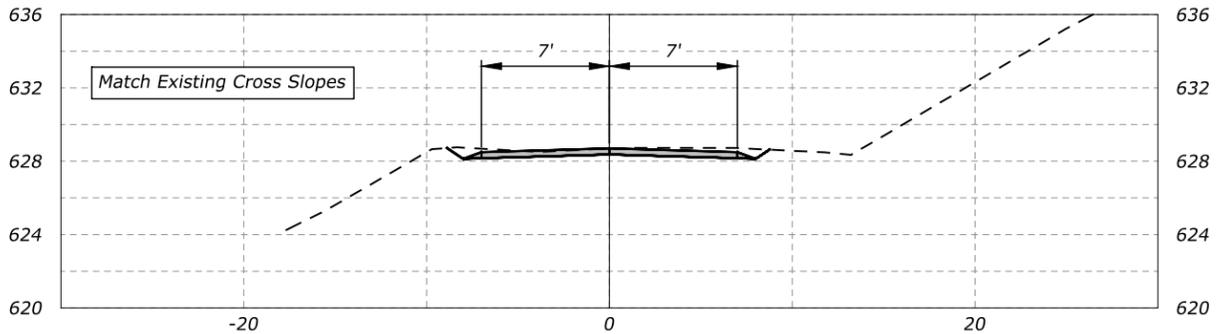
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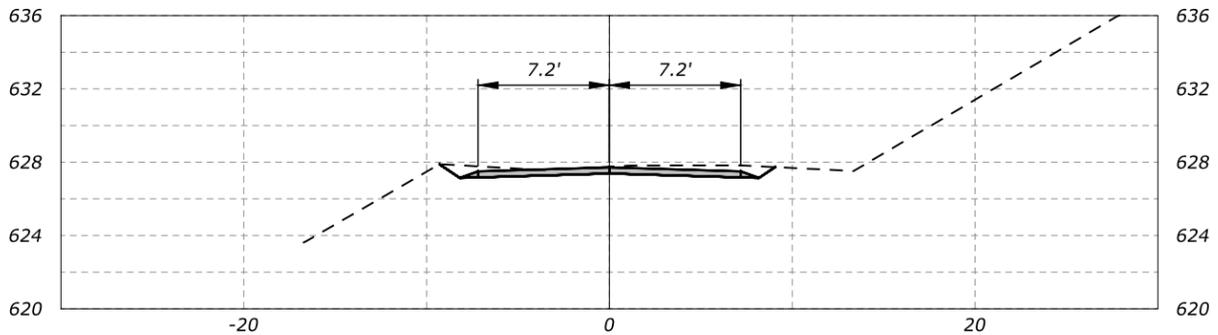
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