

**Replacement of Judd Road Bridge Over Mill River****Addendum #2**

5/13/2025

Notice, Due to multiple Contractors needing more time to obtain quotes for multiple items we have decided to revise the bid submission and bid opening deadlines to 5/27/2025 @ 1:00PM. Bids will be submitted and opened in Room 204 @ 1:00PM.

Q. Min Slope of Judd Road should be increased to promote water flow.

A. See revised plan sets to indicate a 1% road slope.

Q. Having reviewed the RFP for the Judd Rd. Bridge project, can you confirm if the attached RFP Checklist is actually necessary for submission with the bid?

A. A Revised RFP checklist is attached to this document. This is for each bidder to fill out and confirm what they have reviewed and what they are submitting with their bid.

Q. Are the existing bridge drawings available?

A. There are no specific drawing but I have attached the inspection report that will go into some details of the existing bridge. This is the extent that we have on files for this bridge.

Q. This email is to request any geotechnical reports, boring logs, and/or subsurface information to aid in confirming our design and installation methods for the micropile portion of work. Are these documents available for our review?

A. All additional engineering data is supplied attached to this addendum.

Q. Do the bearing plate and flanges for the micropile have to be galvanized?

A. The micro pile bearing plate and the flanges were not galvanized (only the center bar is galvanized).

Q. Please Clarify if there will be a winter shutdown for this project in terms of contract time.

A. Yes there will be a winter shutdown for this project from December 1-March 31. During this time contract time will pause. However, if the contractor wishes to work during this time, he can request this in writing to the Engineer detailing what work is to be completed. If approved these days still do not count against contract time.

Q. Additional bond being required for non-resident contractors

A. This is a requirement for out of state contractors. CT contractors do not need to comply with section 15.c.

Q. Addendum #1 bid sheets did not say they replaced bidders fee proposal form. Please confirm.

A. The Bidders fee proposal form does need to be filled out totaling the sum of the work as an additional check for bid total for services.

RFP CHECKLIST

PROPOSAL FORMAT & SUBMISSION

The Bidder shall check one appropriate box for each corresponding line-item below and submit its bid with all documents fully completed and executed, where required, including this checklist.

Box Legend AE = Acknowledged & Enclosed / AW = Acknowledged & Withheld / NA = Not Applicable

A E	A W	N A	CHECK OFF EACH BOX ACKNOWLEDGING ATTACHED <u>OR</u> N/A and INDICATE # OF PAGES		# of Pages
<input type="checkbox"/>		<input type="checkbox"/>	1.	Cover Letter (optional)	
<input type="checkbox"/>			2.	RFP Checklist/Proposal Format & Submission	
<input type="checkbox"/>			3.	Fee Proposal Form	
			4.	RFP Invitation to Bid	
	<input type="checkbox"/>			a. Standard Instructions to Bidders	
	<input type="checkbox"/>			b. Required General Contract Terms	
	<input type="checkbox"/>			c. Mandatory Insurance Requirements	
<input type="checkbox"/>				d. Bidder's Non-Collusion Affidavit Form	
<input type="checkbox"/>				e. Bidder's Legal Status Disclosure	
<input type="checkbox"/>				f. Bidder's Statement of References	
<input type="checkbox"/>				g. Bidder's List of Subcontractors	
<input type="checkbox"/>				h. Addenda Nos. _____	
			5.	Scope of Work	
	<input type="checkbox"/>			a. Plans:	
	<input type="checkbox"/>			b. Specifications:	
	<input type="checkbox"/>			c. Other:	
<input type="checkbox"/>			6.	Size, history and organizational structure of business, including project specific key personnel ("proposed project team"), including their relative education, experience and qualifications.	
<input type="checkbox"/>			7.	A single-page narrative describing your approach to the project.	
<input type="checkbox"/>			8.	A detailed project schedule and timeline.	
<input type="checkbox"/>			9.	A statement of financial responsibility including all financial information sufficient to evidence the financial ability to perform and fund the entire cost of the project throughout the term.	
<input type="checkbox"/>			10.	[Description]: _____	
<input type="checkbox"/>				[Description]: _____	
<input type="checkbox"/>				[Description]: _____	

END OF RFP CHECKLIST, PROPOSAL FORMAT AND SUBMISSION

BRIDGE NO.04929

48620 - MONROE
JUDD ROAD 2
over
MILL RIVER

Routine Inspection

3/04/2020

Inspected by: Team 6



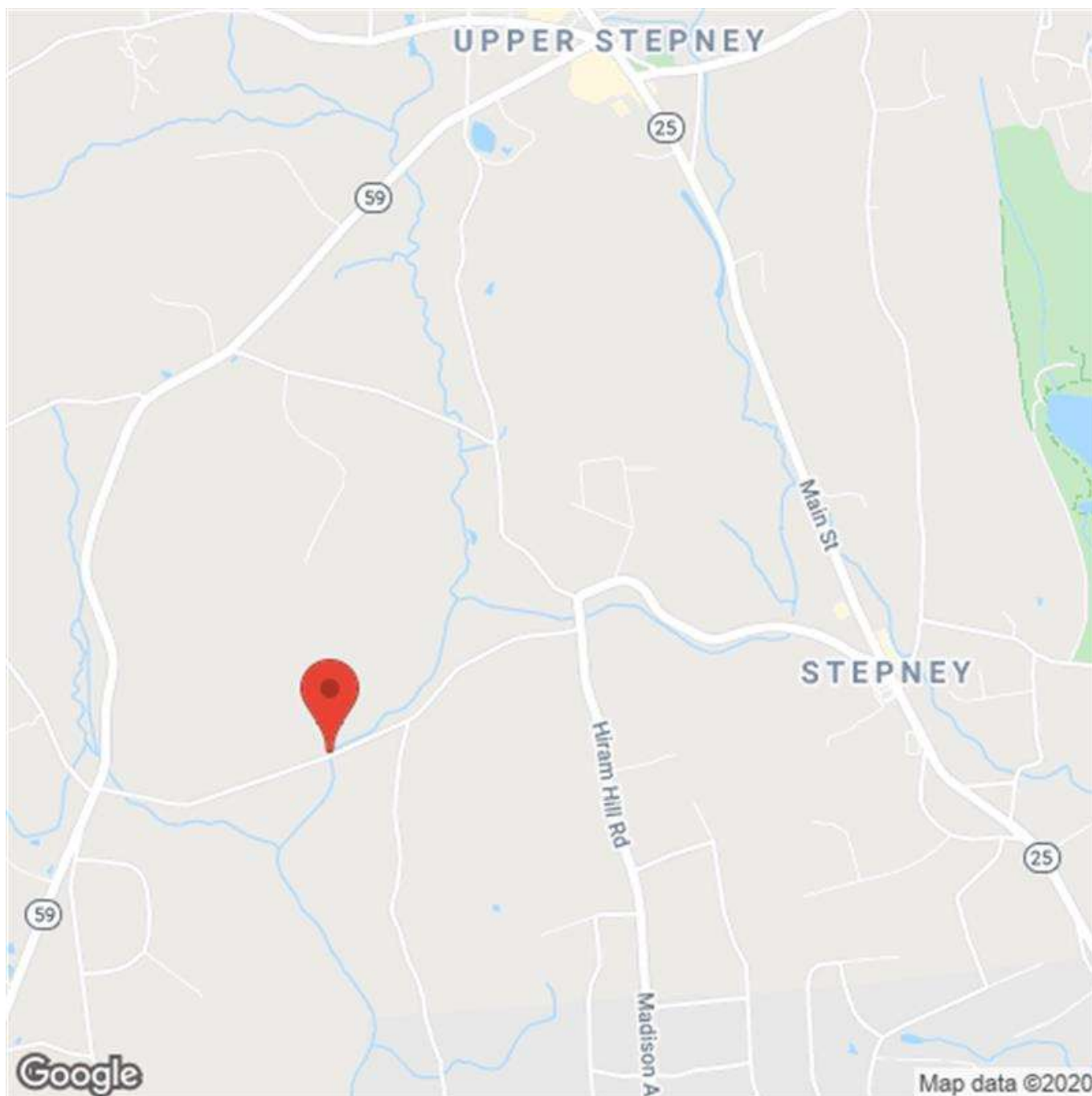
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Form: Location
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Location Map # 1
Judd Road 2 over Mill River, Monroe.

In-Depth Components

Bridge: 04929

Town: 48620 - MONROE



Carried: JUDD ROAD 2

Crossed: MILL RIVER

Form: BRI-19, Rev. 2/15
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS

STRUCTURE INVENTORY & APPRAISAL

INSPECTION

Structurally Deficient Functionally Obsolete
Sufficiency Rating
(90) Inspection Date (91) Frequency
Indepth Insp Proposed next Indepth Year
Deck Survey Date Class
Access Flagman

	Frequency	Date	Type
Fracture	<input type="text"/>	<input type="text"/>	<input type="text"/>
Underwater	<input type="text"/>	<input type="text"/>	<input type="text"/>
Special	<input type="text"/>	<input type="text"/>	<input type="text"/>

IDENTIFICATION

Bridge Name
Town Code - Name
(5) Inventory Route
(A) Record Type
(B) Signing Prefix
(C) Level of Service
(D) Route Number.
(E) Dir Suffix
(6A) Featured Intersected
(6B) Critical Facility Indicator
(7) Facility Carried
(9) Location
(11) Mile Post Miles
(16) Latitude Deg. Min. Sec.
(17) Longitude Deg. Min. Sec.
(98) Border Bridge
(A) State Code (B) Percent Responsibility %
(C) Border Town Name
(99) Border Bridge Structure No.

STRUCTURE TYPE & MATERIALS

(43) Structure Type, Main
A) Material
B) Design Type
(44) Structure Type, Approach
A) Material
B) Design Type
(45) Number of Spans, Main Unit
(46) Number of Approach Spans
(107) Deck Structure Type
(108) Wearing Surface/Protection Systems
A) Type of Wearing Surface
B) Type of Membrane
C) Type of Deck Protection
Substructure
A) Material
B) Design Type
Paint
Type
Year
Comment

GEOMETRIC DATA

(48) Length of Maximum Span ft.
(49) Structure Length ft.
(50) Curb or Sidewalk Widths
A) Left ft. in. B) Right ft. in.
(51) Bridge Roadway Width Curb to Curb ft. in.
(52) Deck Width, Out to Out ft. in.
(32) Approach Roadway Width ft.

Form: BRI-19, Rev. 2/15
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(33) Bridge Median 0 - No median

Deck Area 624 sq. ft.

(34) Skew Angle 00 deg.

(35) Structure Flared 0 - No flare

(10) Inv. Rte. Min. Vert. Clearance 99 ft. 99 in.

(47) Inv. Rte. Total Horiz. Clr. 22 ft. 0 in.

Log Inv. Rte. Total Horiz. Clr. 22 ft. 0 in.

RLog Inv. Rte. Total Horiz. Clr. 0 ft. 0 in.

(53) Min. Vert. Clearance Over Bridge 99 ft. 99 in.

(54) Log-Min. Vert. Underclearance N ref. 0 ft. 0 in.

(55) Min. Lat Underclearance on Right N ref. 99 ft. 10 in.

(56) Min. Lat Underclearance on Left 0 ft. 0 in.

CONDITION

(58) Deck 6

(59) Superstructure 6

(60) Substructure 6

(61) Channel & Channel Protections 7

(62) Culverts N

(36) Traffic Safety Features

A) Bridge Railings 0

B) Transitions 0

C) Approach Guardrail 0

D) Approach Guardrail Ends 0

WATERWAY

Drainage Basin Waterway 7108 - Mill River

(38) Navigation Control 0 - No navigation control on waterway (bridge permit not required)

(39) Navigation Vertical Clearance 0 ft.

(40) Navigation Horiz. Clr. 0 ft.

(111) Pier/Abutment Navigation

(116) Vert-Lift Brg Nav Min 0 ft. 0 in.

AGE AND SERVICE

Year Built 1950 (106) Year Reconstructed

(42) Type of Service

A) On 1 - Highway

B) Under 5 - Waterway

(28) Number of Lanes

A) On 02 B) Under 00

(29) Average Daily Traffic 380

Is Above Half ADT? No

(109) Percent Truck 7 %

(30) Years of ADT 2020

(19) Bypass, Detour Length 2 Miles

APPRAISALS

(67) Structural Evaluation 6

(68) Deck Geometry 4

(69) Underclearances, Vert. & Horiz. N

(71) Waterway Adequacy 7

(72) Approach Roadway Alignment 8

(113) Scour Critical 3

COMMENTS

April 28 2010 bri-8 submitted to add special inspection of exposed footings on scour critical bridge (JCK)

CLASSIFICATION

(112) NBIS Bridge Length Yes

(104) Highway System 0 - Structure/Route is NOT on NHS

(26) Functional Class 08 - Rural - Minor Collector

(100) Defense Highway 0 - Not a STRAHNET route

(101) Parallel Structure N - No parallel structure

(102) Direction of Traffic 2 - 2-way traffic

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(103) Temporary Structure
(110) Designated National Network
(20) Toll
(21) Maintain
(22) Owner
Report Class
(37) Historical Significance

POSTED SIGNS

Other Posted Sign 1
Other Posted Sign 2

	Actual	Recomended	
Posted Load Single Unit Truck	<input type="text"/>	<input type="text"/>	tons
Posted Load Semi-Trailer Truck	<input type="text"/>	<input type="text"/>	tons
Posted Load 4 Axle Truck	<input type="text"/>	<input type="text"/>	tons
Posted Load 3S2 Truck	<input type="text"/>	<input type="text"/>	tons
All Vehicles	<input type="text"/>	<input type="text"/>	tons

Posted Vert. Clearance on Bridge ft. in.
Posted Vert. Underclearance ft. in.
Posted Speed Limit on Bridge m.p.h.

OTHER FEATURES

Fence Required
Fence Present
Fence Type
Fence Height
Fence Material
Fence Top Type
Barrel Ladders
Stand Pipes
Catwalks
Moveable Inspection System
Haunches Present over Roadway
Utilities

PROPOSED IMPROVEMENTS

(75A) Type of Work Proposed
(75B) Work Done By
(76) Length of Structure Improvement ft.
(94) Bridge Improvement Cost \$
(95) Roadway Improvement Cost \$
(96) Total Project Cost \$
(97) Year of Improvement Estimate
(114) Future ADT
(115) Year of Future ADT
DOT Bridge Program List No
Project No
Advertised Date

LOAD RATING & POSTING

(31) Design Load
(63) Operating Rating Type
(64) Operating Rating
(65) Inventory Rating Type
(66) Inventory Rating
Evaluation Code
Year of Evaluation
(70) Bridge Posting
(41) Structure Status

Form: BRI-19, Rev. 2/15
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS

INSPECTOR'S SIGNATURES:

1) _____ Date: 03/16/2020

Byron E. Rivera-Benitez

P.E. SIGNATURE:

Date:

2) _____ Date: 04/09/2020

Parviz Mirzaee
Parviz Mirzaee

P.E. #

Reviewed By:

Parviz Mirzaee
Parviz Mirzaee

Date: 04/09/2020

3) _____ Date:

4) _____ Date:

Form: BRI-18, Rev. 1/14
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS

FIELD INSPECTION REPORT

Location: 1.3 MI WEST OF ROUTE 25
Main Material: 1 - Concrete
Main Design: 01 - Slab

Year Built: 1950
Year Rebuilt:

Snooper Required: ☐
Snooper Used: ☐

Inspectors:

Lead Inspector: Parviz Mirzaee
Inspector: Task:
Rivera-Benitez, Byron BSE - Inspector

Visits:

Visit Date: Temp: Start Time: End Time:
03/04/2020 47 10:30 AM 11:15 AM

58. DECK:

Inspected West to East.

Overall Rating: 6

Rating

Overlay: 6 Bituminous concrete with no known membrane:

Bituminous Concrete is delaminated along both curbs, full length by up to 24 inches wide.

Transverse cracks at the west end.

Southeast shows a bituminous patch approximately 9 feet by 3 feet with spalling up to 1 inch deep.

Longitudinal crack along the eastbound shoulder.

See attached plan view drawing.

Curb reveal on the south side was 4 inches.

Curb reveal on the north side was 4 & 1/4 inches.

See photos 2 - 4.

Deck - Str. Condition: 6 Integral deck shows little deterioration.

Curbs: N

Median: N

Sidewalks: N

Parapet: 6 Railbase exhibits:

Several random vertical hairline cracks.

Light to medium scale areas.

Southeast shows severe scale approximately 2 square feet by up to 6 inches deep.

The south railbase fascia side exhibits horizontal hairline cracks with efflorescence.

Railing: 6 Single pipe rail exhibits:

Exposed primer.

Areas of light rust and chipping paint.

(1) Post base exposed at the southeast end with heavy rust and 1/8 inch section loss.

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Town: MONROE
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Crossed: MILL RIVER
Inventory Route: Non-NHS

	See photo 5.
Paint: 7	Areas of light rust and chipping paint.
Fence: N	
Drains: N	
Lighting Standard: N	
Overall Utility Condition Rating	N - Not Applicable
Utility Type/Size	
N No Utilities present	
Construction Joints: N	
Expansion Joint: N	
Haunches Present over travelway?	NO

APPROACH CONDITION:

	Overall Rating: 7
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Rating

Approach Slab: N	
Relief Joints: N	
Approach Guide Rail: N	
Approach Pavement: 7	East Approach Transverse cracks, (1) full width. Newer overlay at west end. See photos 1 & 6.
Approach Embankment: 7	There is light to moderate roadway run off erosion behind all wingwalls. Brush laying along the southeast edge of roadway.

Traffic Safety Features

Bridge Railings: 0	
Transitions: 0	
Approach Guardrails: 0	
Approach Guardrail Ends: 0	

59. SUPERSTRUCTURE:

	Overall Rating: 6
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Rating

Bearing Devices: N	
Stringers: N	
Girders: 6	Reinforced Concrete Slab: Soffit approximately 3.2% deteriorated with: Areas of map hairline cracks, random areas of honeycomb with exposed chairs. Random honeycomb with exposed rebar.

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:Bridge No 04929

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Inventory Route: Non-NHS

(1) Isolated small surface spall with efflorescence and candles located \pm 3 feet from abutment # 2 at the southeast end.

(2) Hollow areas approximately 2 square feet located at south deck edge.

South deck edge face exhibits horizontal cracks some with efflorescence open hairline to 1/8 inch.

North deck edge has a large spall 40 inches long by 11 inches wide by 6 & 1/2 inches deep with exposed rusted rebar and exposed rail post located midspan.

See photos 7 & 8.

Floor Beams:	N	
Trusses - General:	N	
Trusses - Portals:	N	
Trusses - Bracing:	N	
Paint:	N	
Rust:	N	
Machinery Movable Span:	N	
Rivets & Bolts:	N	
Welds - Cracks:	N	
Timber Decay:	N	
Concrete Cracking:	6	See item 59 (girders).
Collision Damage:	8	
Member Alignment:	N	
Deflection Under Load:	N	
Vibration Under Load:	N	
Stand Pipes:	N	
Catwalks:	N	
Movable Inspection System:	N	
Barrel Ladders:	N	
Are Barrel Ladders OSHA Compliant?		NA

60. SUBSTRUCTURE:

Overall Rating: 6

Rating

Abutments - Stem:	6	Abutments exhibit: Hairline cracks. Random areas of light to medium scale. Abutment # 1 – There are areas of honeycomb for total of approximately 8 square feet by up to 1 inch deep. Abutment # 2 – There is a hollow area, cracking and spalling located adjacent to the southeast wingwall for 52 inches by 12 inches wide with map and vertical hairline cracks with efflorescence.
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Form: BRI-18, Rev. 1/14
 Inspection type: Routine
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:Bridge No 04929

Town: MONROE
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		Spalling condition extends to the southeast wingwall face.
		See wingwalls.
		There is an area of honeycomb at the north end approximately 2 square feet by 1/2 inch deep.
		See photos 9 & 10.
Abutments - Backwall:	N	
Abutments - Footings:	N	Not visible.
		Rip Rap installed.
Abutments - Settlement:	8	
Abutments - Wingwalls:	6	Wingwalls exhibit:
		Light to medium scale and small surface spalls.
		Southwest wingwall –
		Has an area of severe scale 14 inches long by 9 inches high by 2 inches deep.
		Severe scale at the bottom approximately 11 inches long by 6 inches high by 1 inch deep.
		There is honeycomb approximately 6 square feet by up to 1 inch deep.
		Northwest wingwall –
		Honeycomb 18 inches high by 6 inches wide by 1/4 inch deep.
		Previously noted severe scale 31 inches long by 8 inches high by 16 inches deep, not visible due to being covered with Rip rap
		Southeast wingwall –
		There is vertical hairline cracks with efflorescence, a hollow area and spalling at the interface of the east abutment approximately 36 inches by 6 inches by 1 inch deep.
		Shallow spall at the top 24 inches high by 1 inch wide.
		Northeast wingwall shows hairline cracks with light efflorescence.
		See attached sketches and photos 11 - 15.
Piers/Bents - Caps:	N	
Piers/Bents - Pile Bent:	N	
Piers/Bents - Columns:	N	
Piers/Bents - Footings:	N	
Piers/Bents - Settlement:	N	
Erosion - Scour:	8	
Concrete Crack - Spall:	6	See above.
Steel Corrosion:	N	
Paint:	N	
Timber Decay:	N	
Collision Damage:	8	

Form: BRI-18, Rev. 1/14
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS

Debris: N

61. CHANNEL AND CHANNEL PROTECTION:

Overall Rating: 7

Rating

Channel - Scour: 7 Local scour trough located along west side of the channel due to poor channel alignment with the structure.
The waterdepths along the scour were approximately 7 -25 inches.
Waterdepths up and downstream were 4 - 16 inches.
West footing not exposed this inspection due to the installation of Rip Rap.
See attached sketches.

Embankment - Erosion: 6 Upstream –
There is moderate embankment erosion with exposed tree roots.
Some undercutting at the northeast.
Downstream –
There is an area of embankment erosion at the southwest approximately 10 feet long.

Debris: 7 Moderate accumulation of branches and brush lying along embankments upstream and downstream and some in channel.

Vegetation: 6 Seasonal vegetation.
Light vegetation growth {trees and brush} on embankments.
Vegetation growth in the channel at the southwest.

Channel Change: 5 Freeboard to the waterline was 52 inches.
Datum located soffit of slab, mid-span on the north side.
Alignment:
Stream enters structure from a significant angle from the northeast that directs the flow towards abutment # 1.
Scour along west side of channel center +/- 24 to 28 inches deep and build up along abutment 2, +/- 1 foot high.
See photos 16 - 19.

Fender - System: N

Spur Dikes and Jetties: N

Rip Rap: 7 Installed along the west abutment.

62. CULVERTS AND RETAINING WALLS:

Overall Rating: N

Rating

Barrel: N

Concrete: N

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Steel: N
Timber: N
Headwall: N
Cutoff Wall: N
Debris: N
Retaining Wall System: N
Footings: N

LOAD POSTING:

Rating

Single Unit (Tons):

--

Semi Trailer (Tons):

--

4 Axle (Tons):

--

3S2 (Tons):

--

All Vehicles:

--

Advanced Warning:

--

Warning At Bridge:

--

Legibility:

--

Visibility:

--

VERTICAL CLEARANCE POSTING

Min. Vert Under Clearance:

	Ft		In
--	----	--	----

--

Posted Clearance Under Bridge:

	Ft		In
--	----	--	----

--

Posted Clearance On Bridge:

	Ft		In
--	----	--	----

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Advanced Warning:

--

Warning At Bridge:

--

Legibility:

--

Visibility:

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NOTES / COMMENTS:

Character of Traffic: Light traffic.

Additional Notes:

No Bridge ID.

Additional Comments:

Engineer 3 Parviz Mirzaee present during inspection.

National Bridge Elements
 Inspection type: Routine
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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	Mod.	624	sq. ft.	617	7	0	0
1080 - Delamination/Spall/Patched Area		6		0	6	0	0
1090 - Exposed Rebar		1		0	1	0	0
510 - Wearing Surfaces		624	sq. ft.	586	38	0	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		29		0	29	0	0
3220 - Crack (Wearing Surface)		9		0	9	0	0
215 - Reinforced Concrete Abutment	Mod.	48	ft.	43	5	0	0
1080 - Delamination/Spall/Patched Area		2		0	2	0	0
1120 - Efflorescence/Rust Staining		1		0	1	0	0
1130 - Cracking (RC and Other)		2		0	2	0	0
330 - Metal Bridge Railing	Mod.	52	ft.	50	2	0	0
1000 - Corrosion		2		0	2	0	0
515 - Steel Protective Coating		75	sq. ft.	72	3	0	0

CREW: Team 6	DATE: 3/12/2018	BRIDGE NO.: 04929
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Log Direction

 West to East

Key Plan

N.T.S

LEGEND:

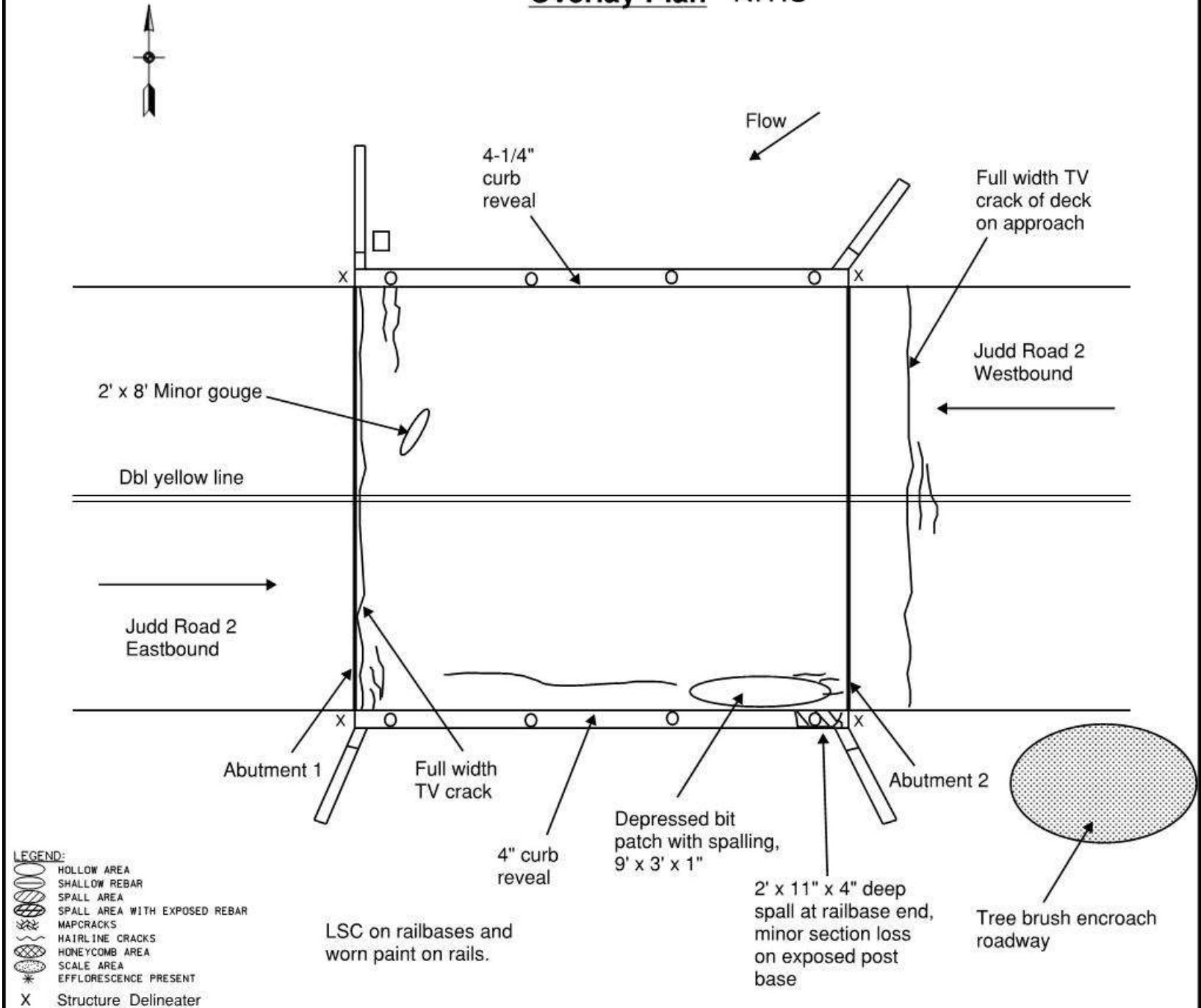
- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- X Structure Delineator

REVISION	DATE: 3/4/2020	CREW: Team 6	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

CREW: Team 6

DATE: 3/12/2018

BRIDGE NO.: 04929

Overlay Plan N.T.S

REVISION DATE: 3/4/2020 CREW: Team 6

REVISION DATE: CREW:

REVISION DATE: CREW:

REVISION DATE: CREW:

CREW: Team 6	DATE: 3/12/2018	BRIDGE NO.: 04929
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Deck Soffit N.T.S

Deck Soffit N.T.S

40 x 11" x 6-1/2" deep LSSP, exposing vertical pipe to rail and rusted re-bar, +/- 1" remaining, original unknown

Flow

Scattered light map hairline cracks

31" x 16" x 2" honeycomb with exposed re-bar

1 S.F. x 1-1/2" deep honeycomb with exposed re-bar

2 S.F. x 1" deep honeycomb with exposed re-bar

18" x 18" x 1/4" honeycomb

2' x 1" x 1" deep honeycomb and 3" diameter x 1" deep SSSP

40" HLC with efflorescence

Abutment 1

24" x 12" hollow area

Abutment 2

Rusted chairs.

Rusted chairs.

LEGEND:

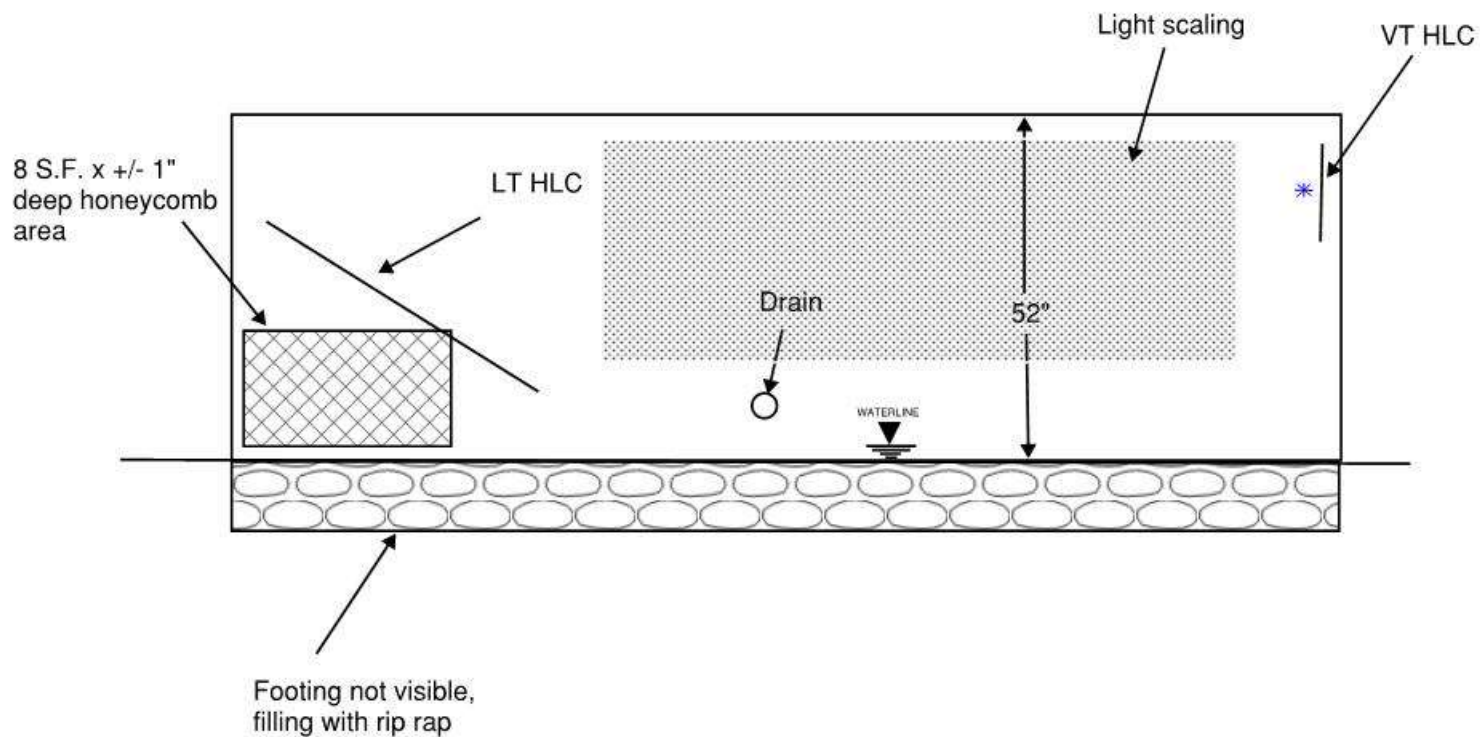
- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCE PRESENT

REVISION	DATE: 3/4/2020	CREW: Team 6	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

CREW: Team 6

DATE: 3/12/2018

BRIDGE NO.: 04929

Abutment #1 N.T.S**LEGEND:**

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT

REVISION DATE: 3/4/2020 CREW: Team 6

REVISION DATE: CREW:

REVISION DATE: CREW:

REVISION DATE: CREW:

Sketches

Inspection type: Routine
 Inspection Date: 3/04/2020
 Inspected by: Team 6

:Bridge No 04929

Town: MONROE
 Carried: JUDD ROAD 2
 Crossed: MILL RIVER
 Inventory Route: Non-NHS

CREW: Team 6	DATE: 3/12/2018	BRIDGE NO.: 04929
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Abutment #2 N.T.S

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT

REVISION	DATE: 3/4/2020	CREW: Team 6	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

CREW: Team 6	DATE: 3/12/2018	BRIDGE NO.: 04929
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West Wingwalls

N.T.S

NorthWest wingwall

SouthWest wingwall

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT

REVISION	DATE: 3/4/2020	CREW: Team 6	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

Sketches

Inspection type: Routine
 Inspection Date: 3/04/2020
 Inspected by: Team 6

:Bridge No 04929

Town: MONROE
 Carried: JUDD ROAD 2
 Crossed: MILL RIVER
 Inventory Route: Non-NHS

CREW: Team 6	DATE: 3/12/2018	BRIDGE NO.: 04929
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East Wingwalls

N.T.S

NorthEast wingwall

SouthEast wingwall

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT

REVISION	DATE: 3/4/2020	CREW: Team 6	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

Sketches

Inspection type: Routine
 Inspection Date: 3/04/2020
 Inspected by: Team 6

:Bridge No 04929

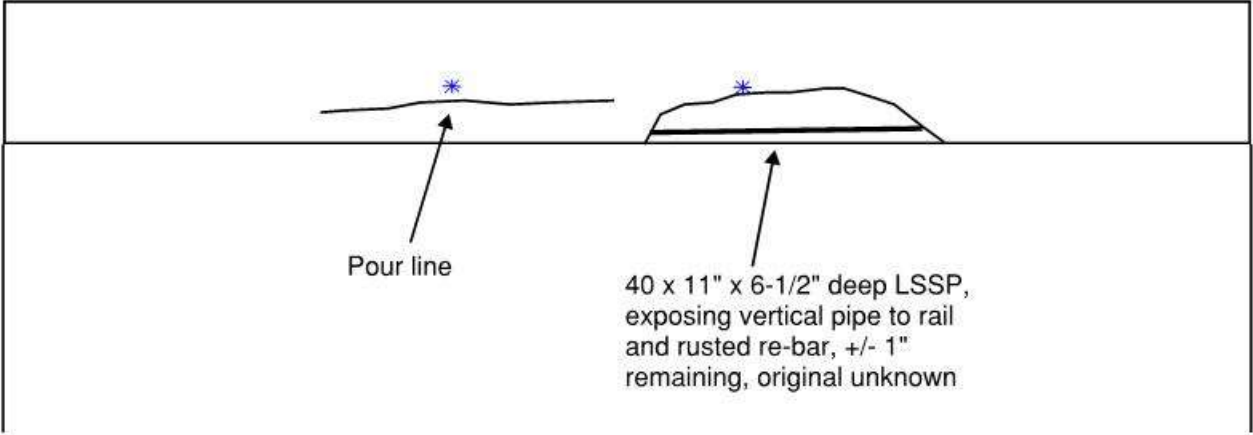
Town: MONROE
 Carried: JUDD ROAD 2
 Crossed: MILL RIVER
 Inventory Route: Non-NHS

CREW: Team 6	DATE: 3/12/2018	BRIDGE NO.: 04929
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Railbases

N.T.S

North Railbase

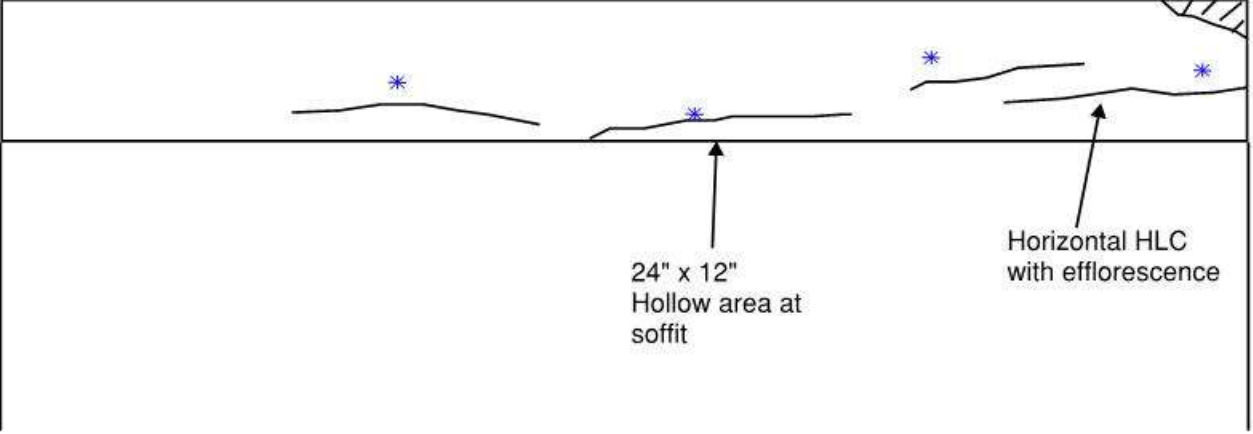


Pour line

40 x 11" x 6-1/2" deep LSSP, exposing vertical pipe to rail and rusted re-bar, +/- 1" remaining, original unknown

A-1

South Railbase



Spall at railbase

24" x 12" Hollow area at soffit

Horizontal HLC with efflorescence

A-2

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT

REVISION	DATE: 3/4/2020	CREW: Team 6	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

Sketches
 Inspection type: Routine
 Inspection Date: 3/04/2020
 Inspected by: Team 6

:Bridge No 04929

Town: MONROE
 Carried: JUDD ROAD 2
 Crossed: MILL RIVER
 Inventory Route: Non-NHS

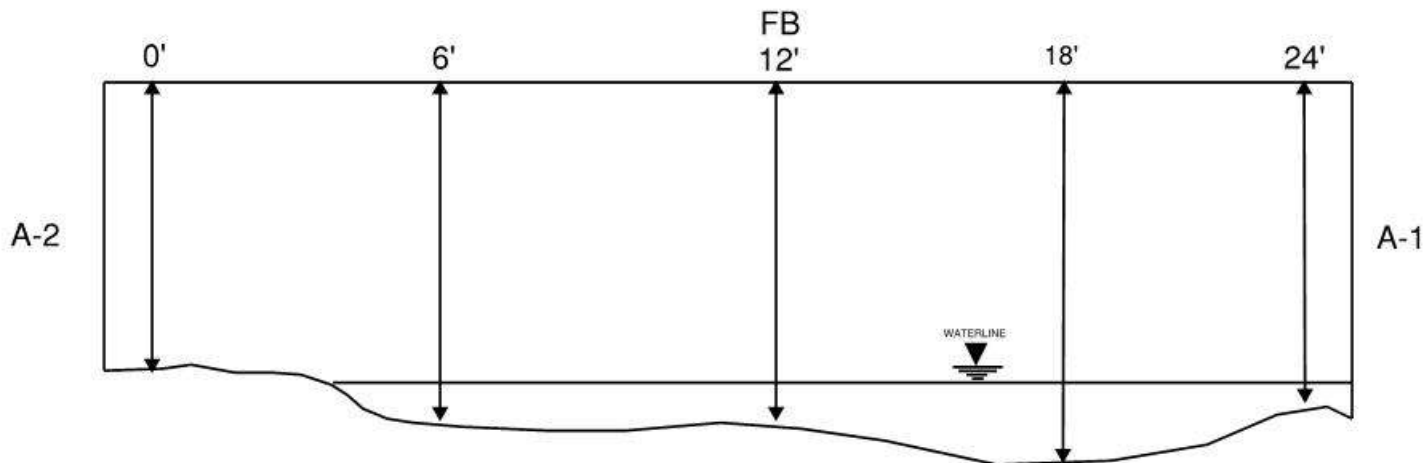
CREW: Team 6

DATE: 3/12/2018

BRIDGE NO.: 04929

**Water Depths
 North Elevation
 (Inlet)**

N.T.S



Date	0'	6'	12'	18'	24'	FB
3-17-16	48"	56"	62"	78"	82"	
3-12-18	47"	56"	63"	73"	53"	52"
3-4-20	47"	56"	62"	75"	74"	55"

REVISION	DATE: 3/4/2020	CREW: Team 6	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

Sketches

Inspection type: Routine

Inspection Date: 3/04/2020

Inspected by: Team 6

:Bridge No 04929

Town: MONROE

Carried: JUDD ROAD 2

Crossed: MILL RIVER

Inventory Route: Non-NHS

CREW: Team 6

DATE: 3/12/2018

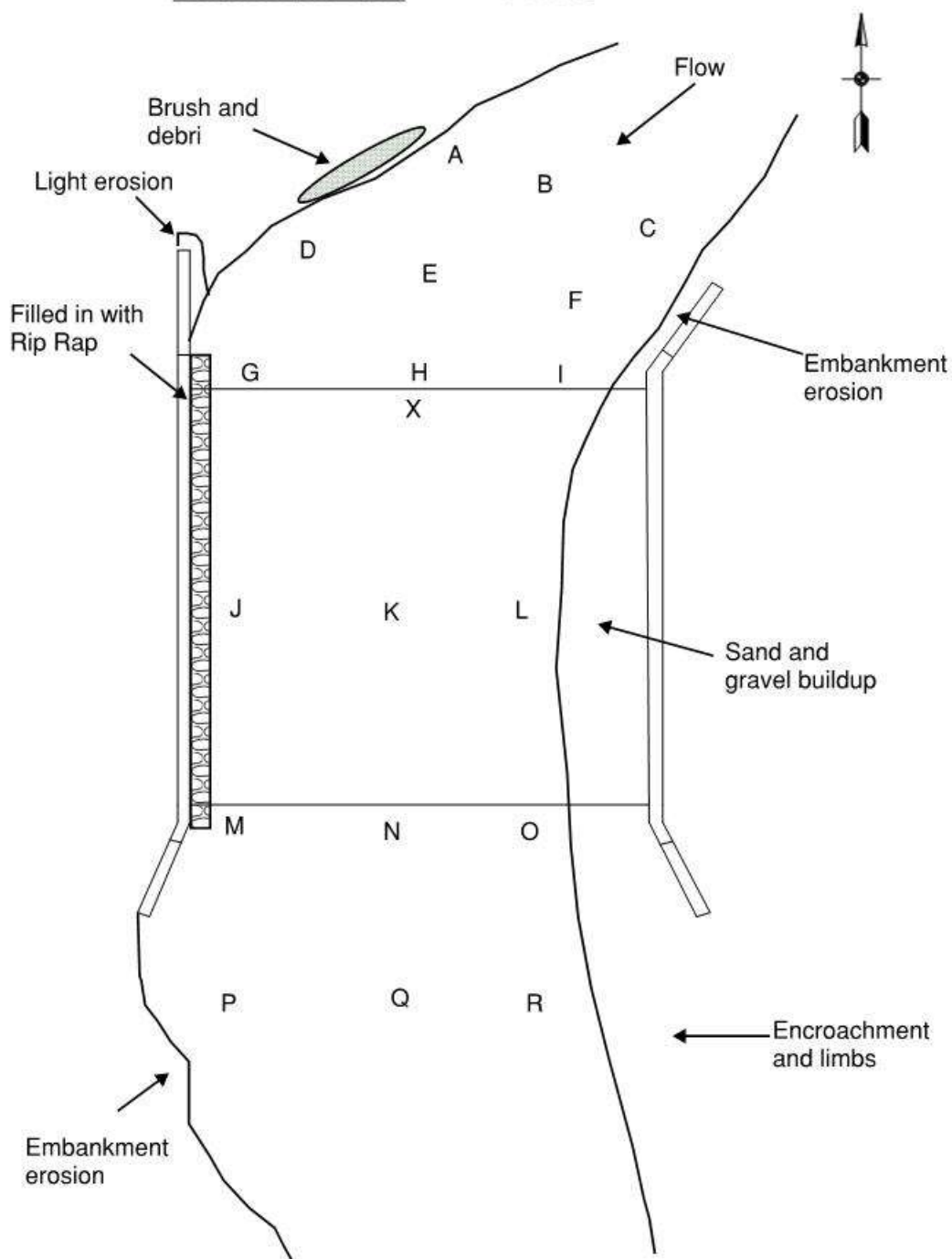
BRIDGE NO.: 04929

Channel Plan

N.T.S

	3-17-16	3-12-18	3-04-20			
A	8"	9"	5"			
B	15"	19"	16"			
C	5"	12"	2"			
D		18"	5"			
E		20"	16"			
F		9.5"	1"			
G	24"	28"	7"			
H	4"	17"	12"			
I	2"	4"	2"			
J	29"	38"	25"			
K	12"	16"	17"			
L	3"	3"	2"			
M	18"	24"	18"			
N	12"	17"	12"			
O	4"	4"	0"			
P	3"	9"	7"			
Q	6"	10"	9"			
R	3"	3"	4"			
X	58"	52"	55"			

X = Freeboard

REVISION  DATE: 3/4/2020 CREW: Team 6REVISION  DATE: CREW:REVISION  DATE: CREW:REVISION  DATE: CREW:

Form: Asset Photos
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Photo Number: 1

Photo Taken: 03/04/2020

Looking eastbound.



Photo Number: 2

Photo Taken: 03/04/2020

General view of wearing surface.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Photo Number: 3

Photo Taken: 03/04/2020

Eastbound lane near abutment 2.



Photo Number: 4

Photo Taken: 03/04/2020

North rail view.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Photo Number: 5

Photo Taken: 03/04/2020

South rail view.



Photo Number: 6

Photo Taken: 03/04/2020

Looking westbound.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Photo Number: 7

Photo Taken: 03/04/2020

North (left) fascia condition near abutment 1.



Photo Number: 8

Photo Taken: 03/04/2020

Underside view.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Photo Number: 9

Photo Taken: 03/04/2020

Abutment 1.



Photo Number: 10

Photo Taken: 03/04/2020

Abutment 2.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Photo Number: 11

Photo Taken: 03/04/2020

Wingwall 2A.



Photo Number: 12

Photo Taken: 03/04/2020

Wingwall 2A, free end condition.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Photo Number: 13

Photo Taken: 03/04/2020

Wingwall 1A.



Photo Number: 14

Photo Taken: 03/04/2020

Wingwall 1B.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Photo Number: 15

Photo Taken: 03/04/2020

Wingwall 2B.



Photo Number: 16

Photo Taken: 03/04/2020

North elevation (inlet) view.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Photo Number: 17

Photo Taken: 03/04/2020

Looking upstream.



Photo Number: 18

Photo Taken: 03/04/2020

South elevation (outlet) view.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 3/04/2020
Inspected by: Team 6

:Bridge No 04929

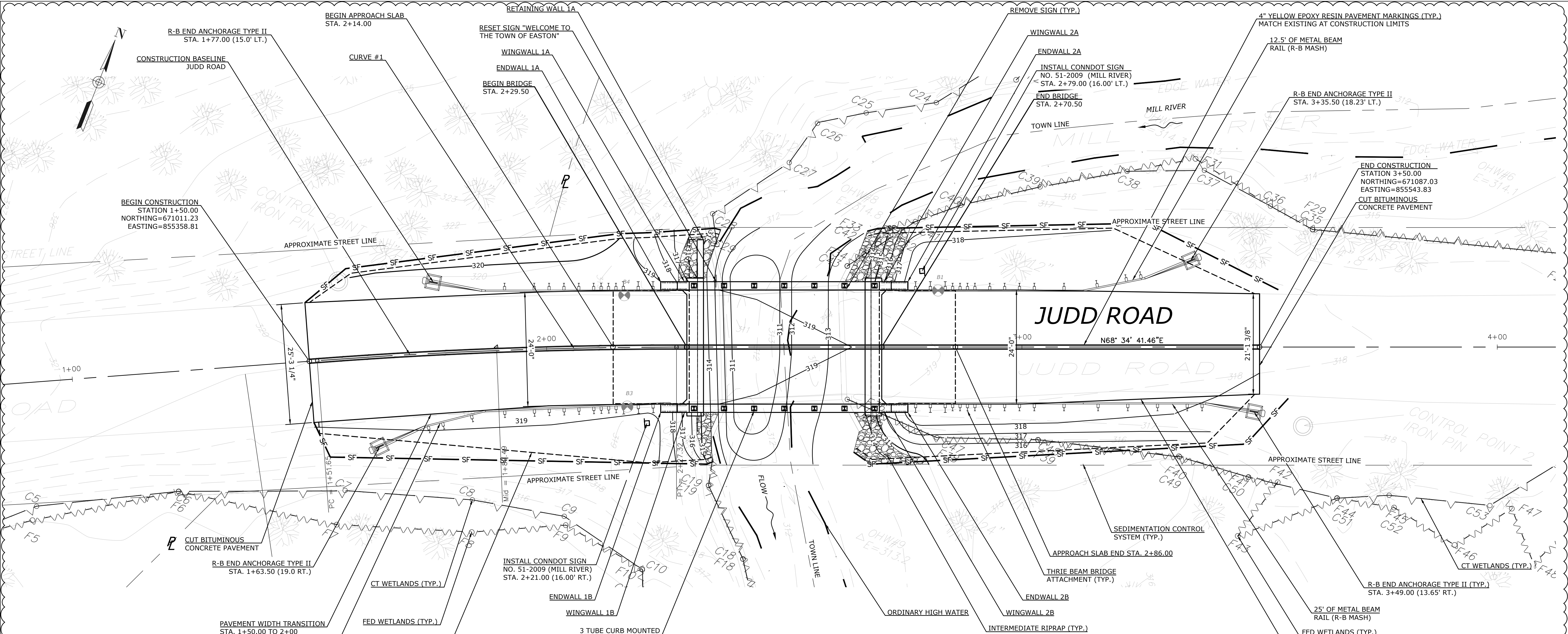
Town: MONROE
Carried: JUDD ROAD 2
Crossed: MILL RIVER
Inventory Route: Non-NHS



Photo Number: 19

Looking downstream.

Photo Taken: 03/04/2020



CONSTRUCTION NOTES:

- ALL MAILBOXES AND FENCES DISTURBED OR REMOVED DURING CONSTRUCTION SHALL BE RESET AS NECESSARY. (PAID FOR UNDER "CLEARING AND GRUBBING".)
- EFFLUENT FROM DEWATERED WORK AREA(S) SHOULD NOT BE DISCHARGED DIRECTLY TO THE RIVER BUT MUST BE PROCESSED THROUGH TREATMENT STRUCTURE(S). SUCH STRUCTURE(S) SHOULD NOT BE LOCATED WITHIN THE RIVER CHANNEL OR ADJACENT WETLANDS.
- ALL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE ESTABLISHED PRIOR TO AND MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.
- ANY ACTIVITIES OTHER THAN THOSE SHOWN ON THE PLANS OR DETAILED IN THE WETLANDS PERMIT THAT OCCUR IN THE REGULATED WETLANDS AREA SHALL BE SUBJECT TO APPROVAL BY THE LOCAL INLAND/WETLANDS AUTHORITY OR ITS DESIGNATED REPRESENTATIVE.
- DURING ALL PHASES OF CONSTRUCTION ACTIVITIES, ACCESS FOR THE PROPERTY OWNERS AS WELL AS ALL SERVICE VEHICLES SUCH AS MAIL, TRASH COLLECTION, FUEL DELIVERIES, ETC. SHALL BE MAINTAINED BY THE CONTRACTOR TO ABUTTING PROPERTIES WITHIN THE LIMITS OF THE WORK.
- SURVEY INCLUDING WETLAND FLAG LOCATIONS, PERFORMED BY WILLIAM HEARN L.S..

PAVEMENT MARKING NOTES:

- FINAL PAVEMENT MARKING SHALL BE EPOXY RESIN AND SHALL MATCH EXISTING MARKINGS AT CONSTRUCTION LIMITS.

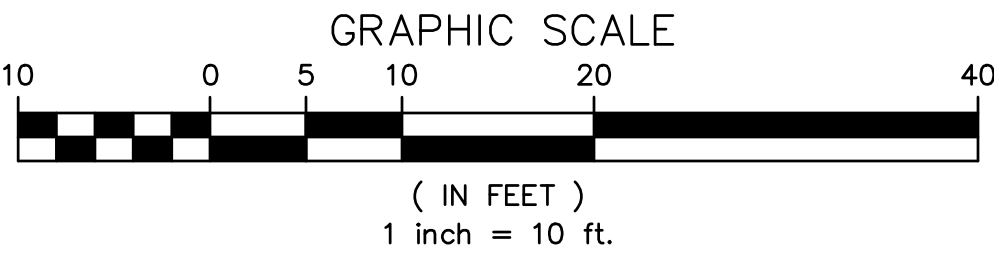
SIGNING NOTES:

- ALL EXISTING SIGNS WITHIN THE SIGNING LIMITS ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLAN OR DIRECTED BY THE ENGINEER.
- SIGNS TO BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1208.01 AND TR-1208.02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS", EXCEPT AS NOTED.
- EXACT SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER.
- SIGNS SHALL BE PLACED NO CLOSER THAN 10 FEET FROM UTILITY POLES.

PROPOSED ROADWAY PLAN

SCALE: 1" = 10'

APPROXIMATE BORING LOCATIONS



CURVE DATA	
CURVE #1	
PI N855394.39	
PI E671028.39	
L=75.67'	
Δ=4.3355	
R=1000.00'	
T=75.65'	

DESIGN DATA	
ROAD CLASS	MINOR COLLECTOR
DESIGN SPEED	30 MPH
ADT	380
RADIUS (MIN.)	1000'
e	N/A
MAXIMUM GRADE	1.25%
CROSS SLOPE	2.00%
K (SAG MIN.)	47.10
K (CREST MIN.)	30.21
STOPPING SIGHT DISTANCE	> 200 FT.

SURVEY NOTES:
HORIZONTAL DATUM: NAD83
HORIZONTAL ACCURACY: CLASS A-2
VERTICAL DATUM IS: NAVD88
VERTICAL ACCURACY: CLASS T-2

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE TOWN AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	05/09/2023	UPDATED ROADWAY GRADING & ELEVATIONS
REVISIONS		

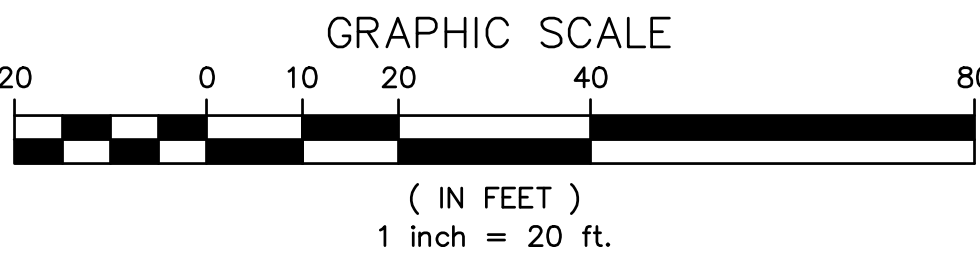
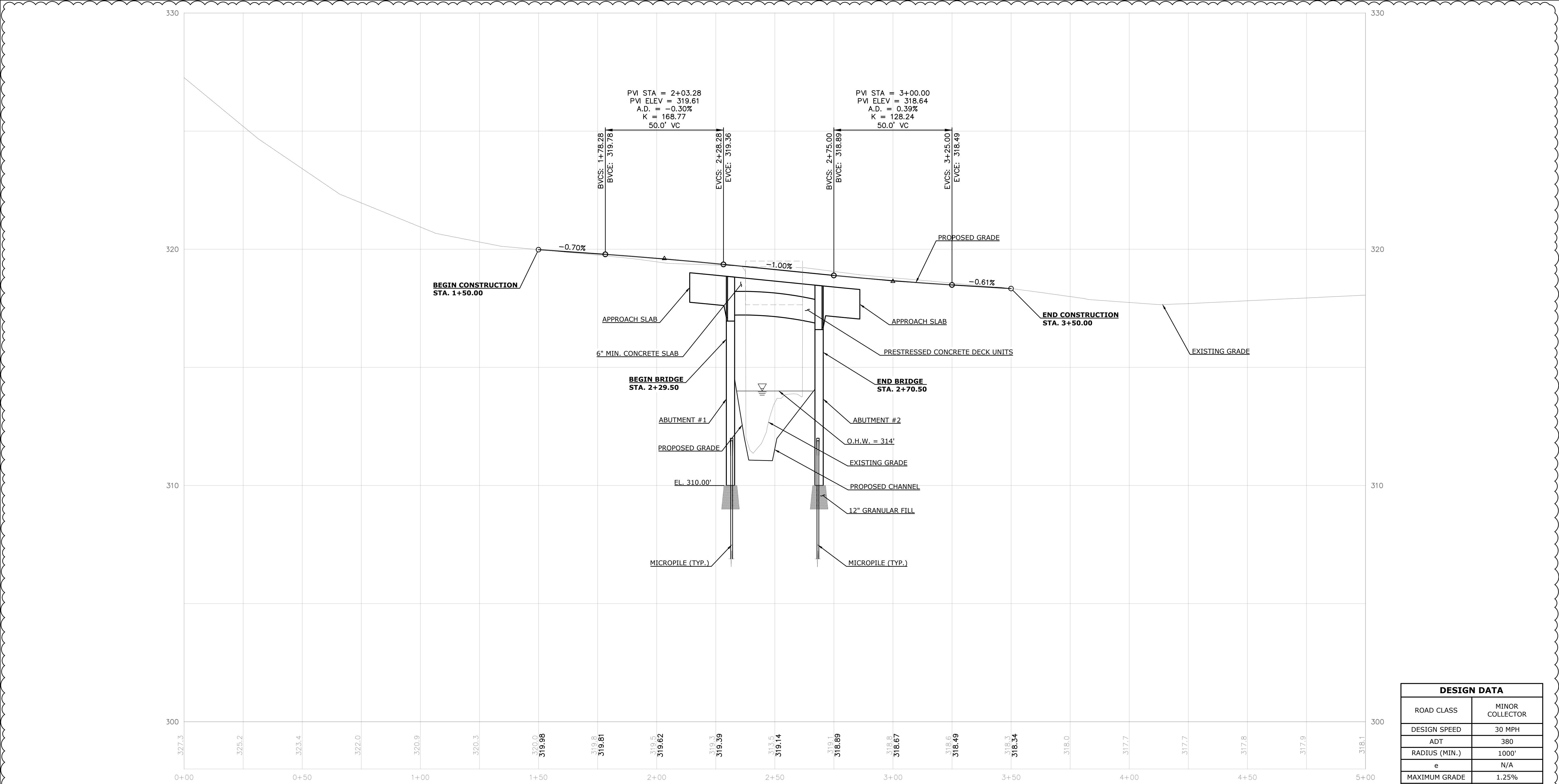
SUPV.	K.O.E.
DESIGN	E.O.D.
DRAWN	P.W.S.
CHECKED	K.K.
DATE	03/08/2024

WMC
CONSULTING ENGINEERS
• WENGELL, McDONNELL & COSTELLO •
87 HOLMES ROAD
NEWINGTON, CT 06111
(860) 667-9624

PREPARED FOR
TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

**REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ROADWAY PLAN**

D -	JUDD ROAD	F.D.	22007.10	REV.	OF	SHEET	5
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF		25



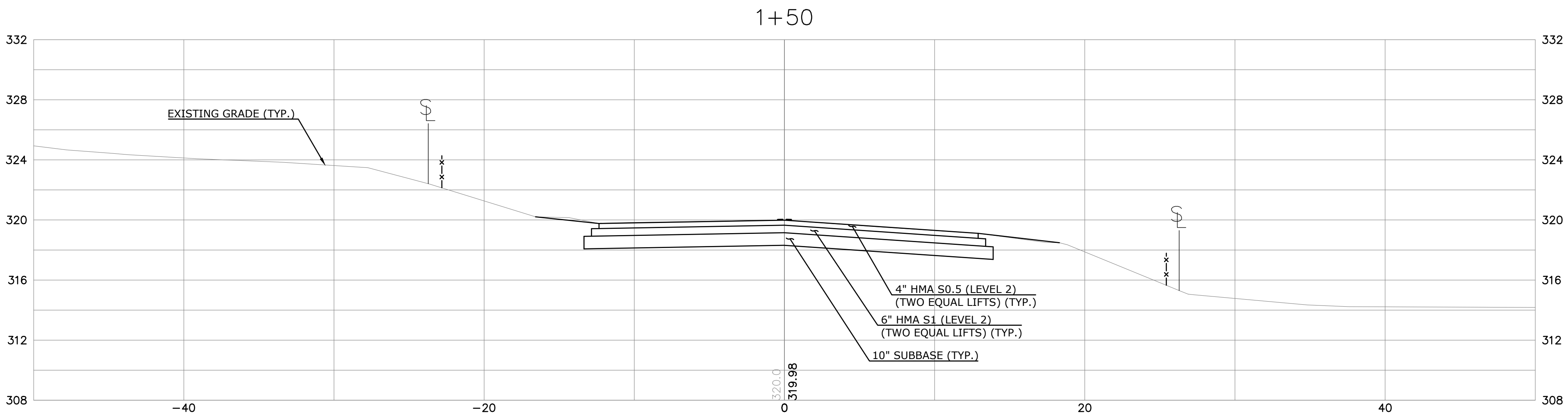
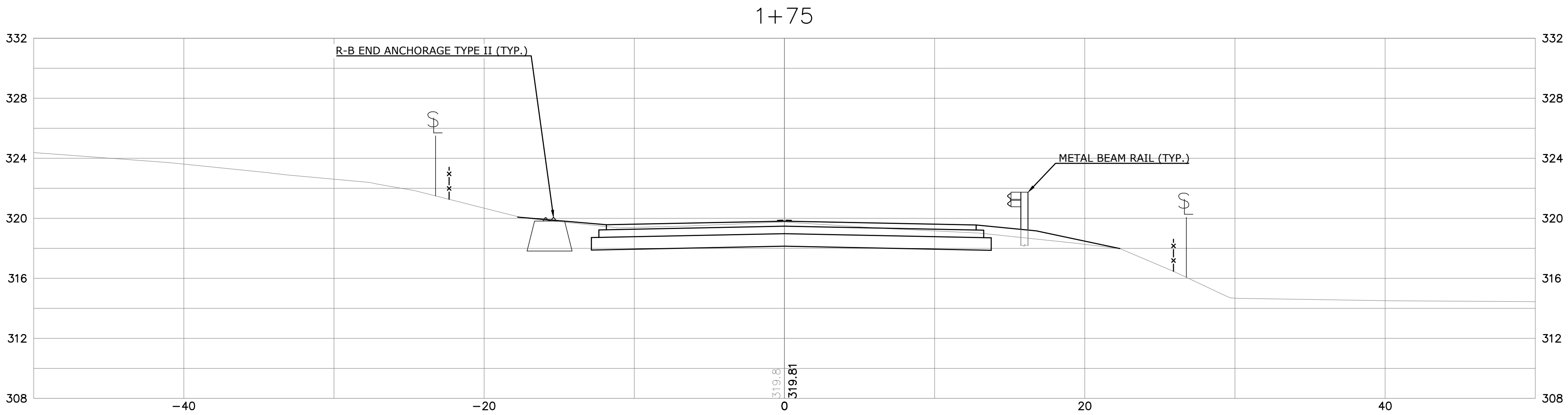
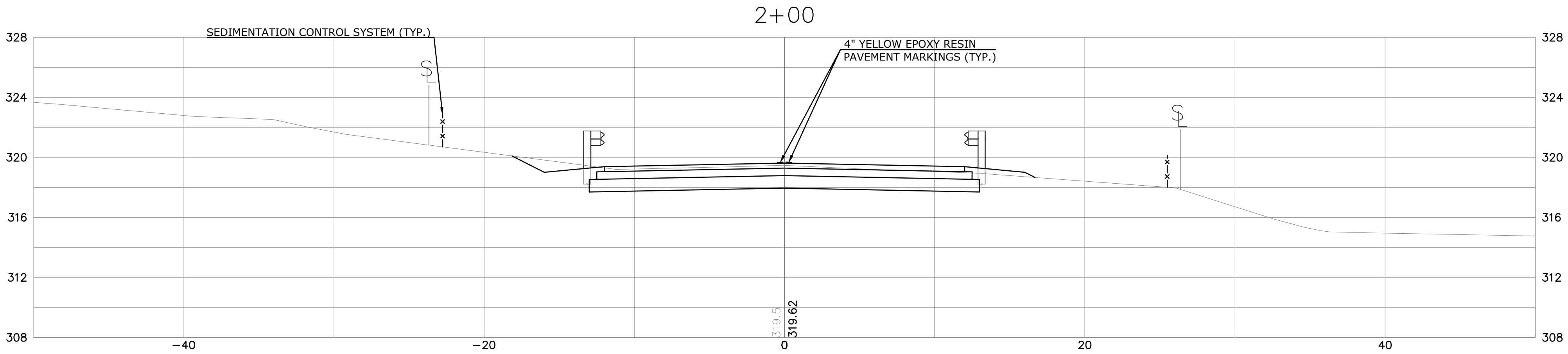
PROPOSED ROADWAY PROFILE
SCALE: 1" = 20' (HORIZONTAL)
SCALE: 1" = 2' (VERTICAL)

DESIGN DATA	
ROAD CLASS	MINOR COLLECTOR
DESIGN SPEED	30 MPH
ADT	380
RADIUS (MIN.)	1000'
e	N/A
MAXIMUM GRADE	1.25%
CROSS SLOPE	2.00%
K (SAG MIN.)	47.10
K (CREST MIN.)	30.21
STOPPING SIGHT DISTANCE	> 200 FT.

SURVEY NOTES:
HORIZONTAL DATUM: NAD83
HORIZONTAL ACCURACY: CLASS A-2
VERTICAL DATUM IS NAVD88
VERTICAL ACCURACY: CLASS T-2

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE TOWN AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

A	15/09/2023	CHANGE SLOPE & ELEVATIONS	SUPV.	K.O.E.
			DESIGN	E.O.D.
			DRAWN	P.W.S.
			CHECKED	K.K.
NO.	DATE	DESCRIPTION	DATE	
REVISIONS			03/08/2024	



ROADWAY SECTIONS

SCALE: 1" = 5'

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1	5/09/2023	REVISE SECTION ELEVATIONS
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SUPV.	K.O.E.
DESIGN	E.O.D.
DRAWN	P.W.S.
CHECKED	K.K.
DATE	03/08/2024

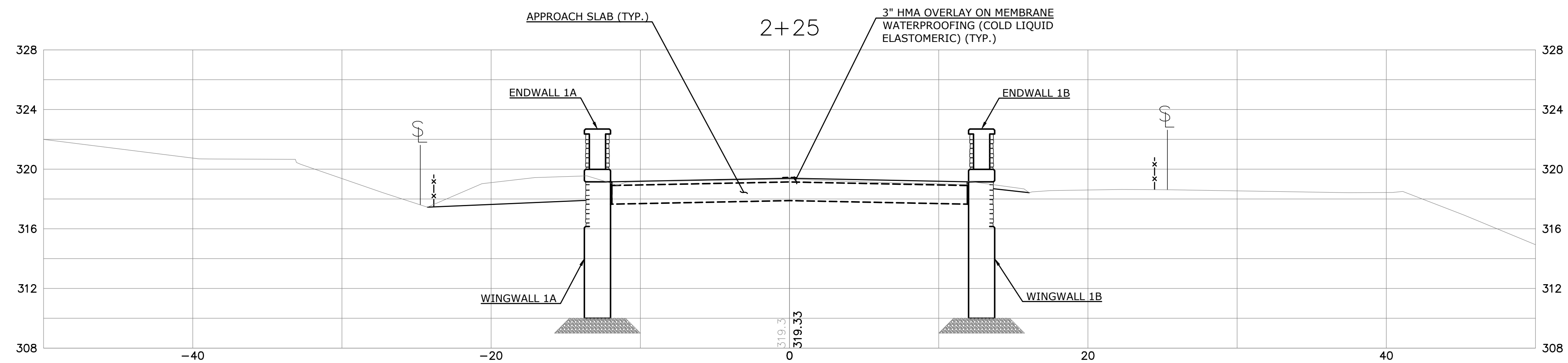
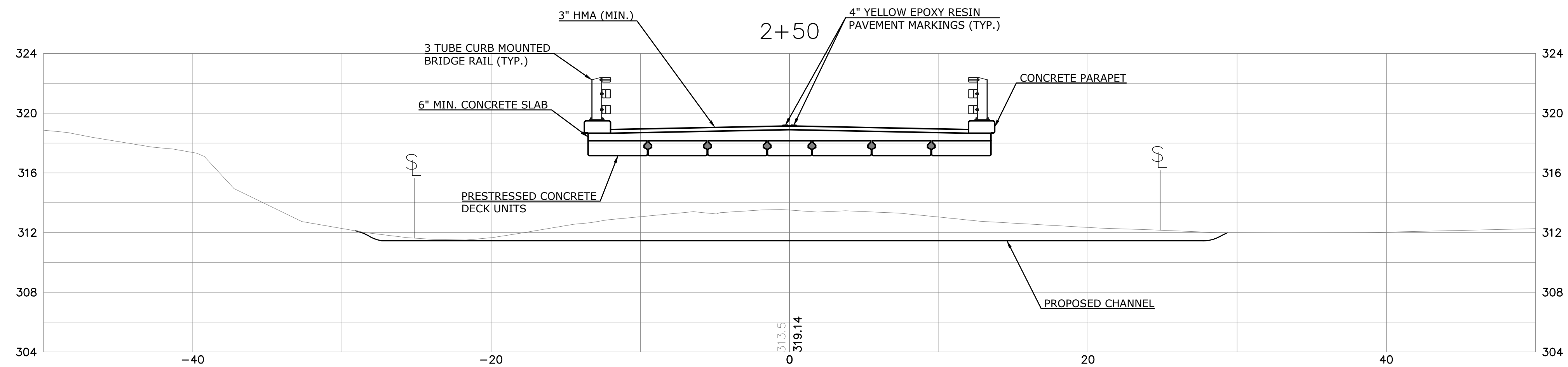
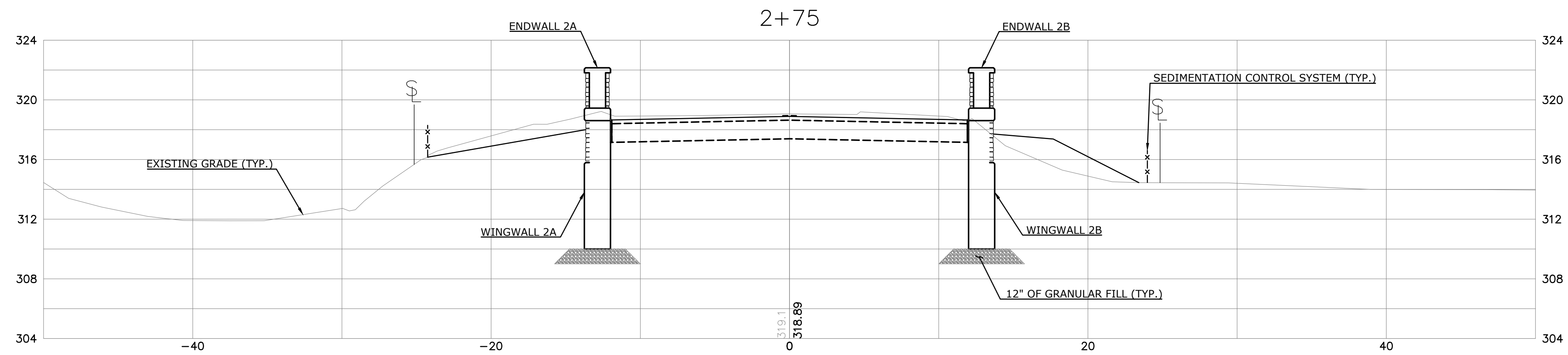


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PREPARED FOR
TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ROADWAY CROSS SECTIONS - 1

D	JUDD ROAD	F.D.	22007.10	REV.	OF	8
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25



ROADWAY SECTIONS

SCALE: 1" = 5'

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE TOWN AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

[illegible]

SUPV.	K.O.E.
DESIGN	E.O.D.
DRAWN	P.W.S.
CHECKED	K.K.
DATE	03/08/2024

 **WMC**
CONSULTING ENGINEERS

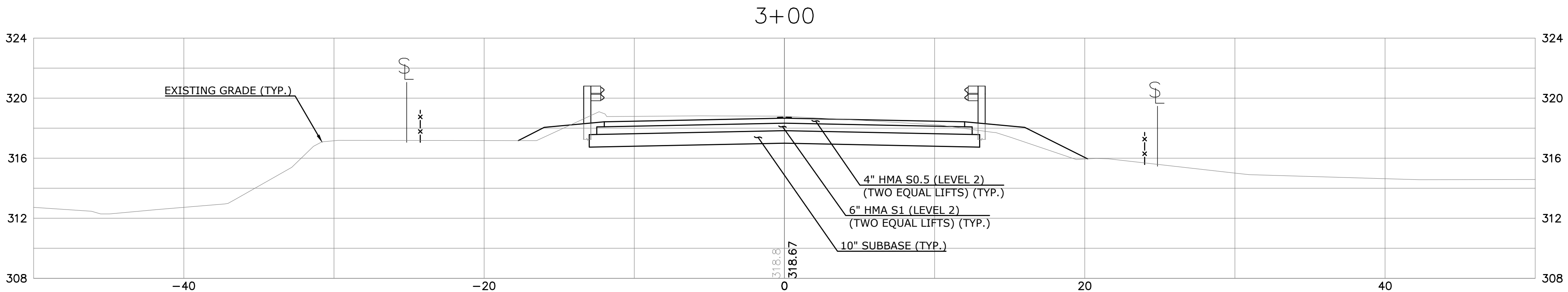
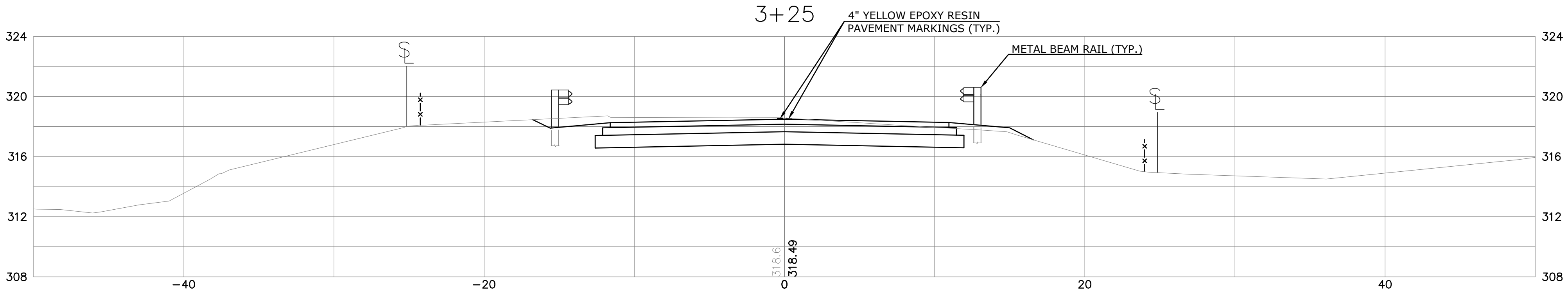
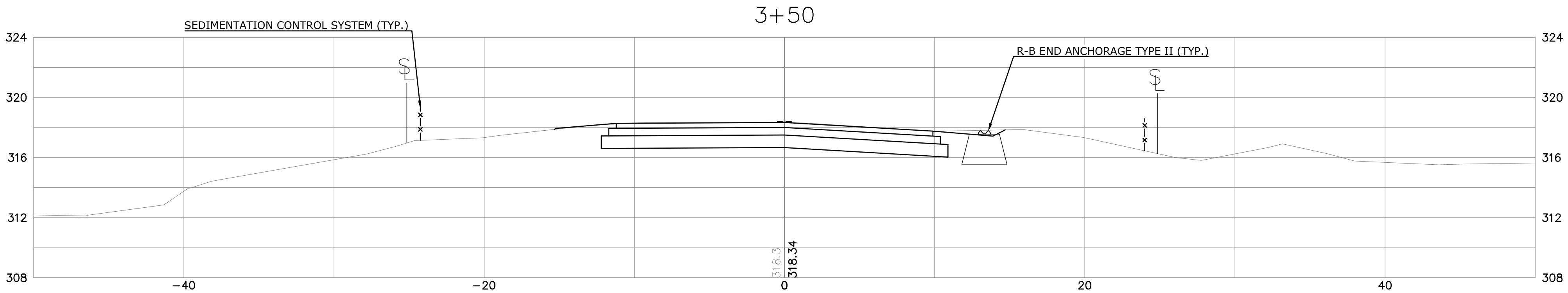
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(860) 667-9624

PREPARED FOR

TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ROADWAY CROSS SECTIONS - 2

D - JUDD ROAD - F.D. - 22007.10 -					SHEET 9
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF 25



ROADWAY SECTIONS

SCALE: 1" = 5'

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A 5/09/2023 REVISE SECTION ELEVATIONS			SUPV.	K.O.E.
			DESIGN	E.O.D.
			DRAWN	P.W.S.
			CHECKED	K.K.
NO.	DATE	DESCRIPTION	DATE	03/08/2024
REVISIONS				

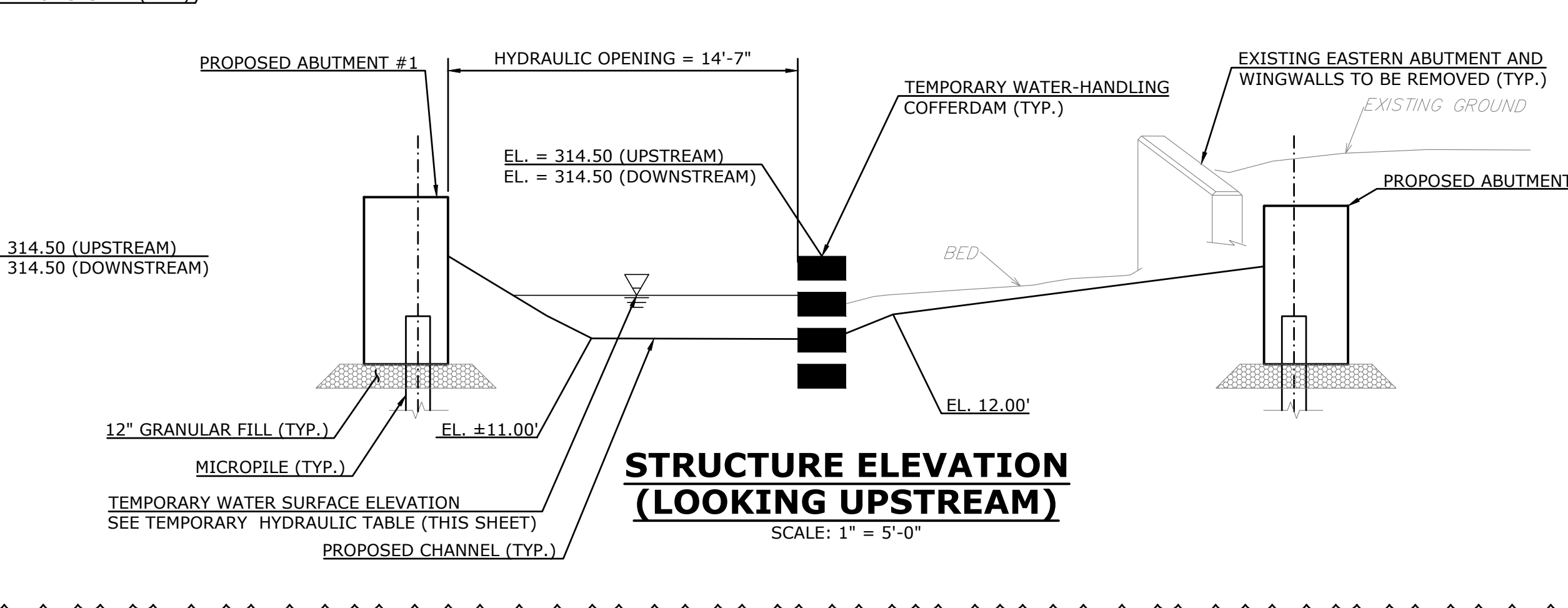
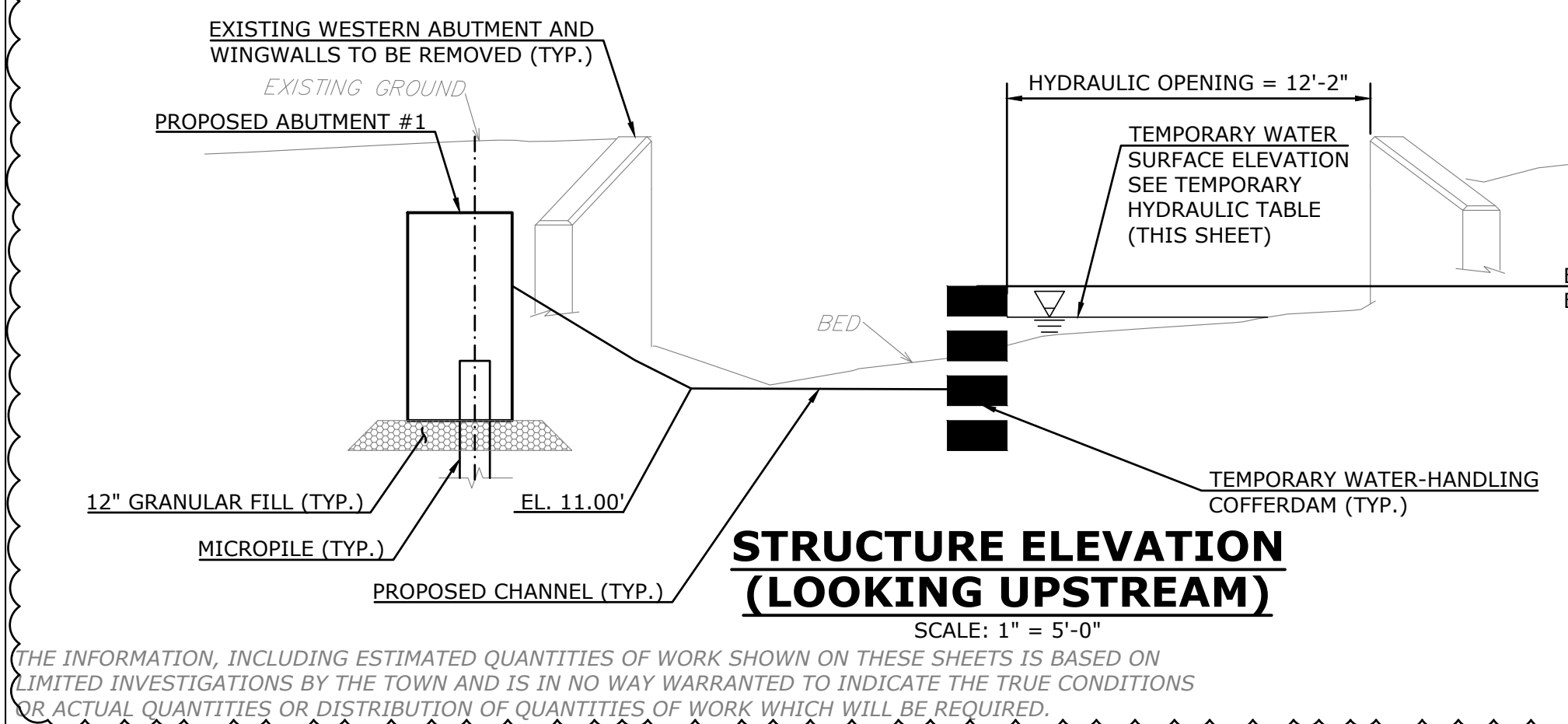


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PREPARED FOR
TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ROADWAY CROSS SECTIONS - 3

D	JUDD ROAD	F.D.	22007.10	SHEET	10
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF
					25



TEMPORARY HYDRAULIC DATA		
	STAGE 1	STAGE 2
AVERAGE DAILY FLOW (CFS)	5.18	5.18
AVERAGE SPRING FLOW (CFS)	10.12	10.12
2-YEAR FREQUENCY DISCHARGE (CFS)	126	126
TEMPORARY DESIGN DISCHARGE (CFS)	10.12	10.12
TEMPORARY DESIGN FREQUENCY (YEARS)	2	2
TEMPORARY WATER SURFACE ELEVATION - UPSTREAM (FEET)	313.46	312.87
TEMPORARY WATER SURFACE ELEVATION - DOWNSTREAM (FEET)	313.22	312.63

SEQUENCING NOTES:

SUGGESTED STAGE 1 CONSTRUCTION SEQUENCE NOTES:

- 1) MOBILIZE AND INSTALL CONSTRUCTION SIGNS.
- 2) INSTALL AND MAINTAIN NECESSARY EROSION AND SEDIMENTATION CONTROLS.
- 3) PERFORM CLEARING AND GRUBBING.
- 4) INSTALL TEMPORARY TRAFFIC BARRIERS AND CLOSE JUDD ROAD TO TRAFFIC.
- 5) INSTALL DEBRIS SHIELD UNDER THE BRIDGE AT ELEVATION 317.0'.
- 6) REMOVE SUPERSTRUCTURE OF EXISTING BRIDGE 04929. THE CONTRACTOR SHALL PREVENT DEBRIS, TOOLS, AND/OR OTHER MATERIALS FROM ENTERING OR DROPPING INTO THE WATERWAY ADJACENT TO THE STRUCTURE. ALL DEBRIS DROPPED INTO THE WATERWAY SHALL BE PROMPTLY CLEANED UP AND REMOVED FROM THE SITE AT THE SOLE EXPENSE OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE MUNICIPALITY.
- 7) INSTALL STAGE 1 WATER-HANDLING-COFFERDAMS AS SHOWN. TOP OF COFFERDAMS ELEVATION ON THE STREAM SIDE SHALL BE 314.50 FEET WHICH SHOULD PROVIDE PROTECTION FOR THE 2-YEAR FLOW DISCHARGE WITH 1 FOOT OF FREEBOARD.
- 8) REMOVE EXISTING WESTERN ABUTMENT, WINGWALLS, AND FOOTINGS.
- 9) CONSTRUCT WESTERN VERIFICATION TEST PILE, MICROPILES, ABUTMENTS WINGWALLS, AND RETAINING WALL AS SHOWN.
- 10) PERFORM LOW FLOW CHANNEL AND EMBANKMENT GRADING, AND INSTALL RIPRAP.
- 11) REMOVE STAGE 1 HANDLING COFFERDAM AND PREPARE FOR STAGE 2

SUGGESTED STAGE 2 CONSTRUCTION SEQUENCE NOTES:

- 1) INSTALL STAGE 2 WATER-HANDLING-COFFERDAMS AS SHOWN. TOP OF COFFERDAMS ELEVATION ON THE STREAM SIDE SHALL BE 314.50 FEET WHICH SHOULD PROVIDE PROTECTION FOR THE 2-YEAR FLOW DISCHARGE WITH 1 FOOT OF FREEBOARD.
- 2) REMOVE EXISTING EASTERN ABUTMENT, WINGWALLS, AND FOOTINGS.
- 3) CONSTRUCT EASTERN VERIFICATION TEST PILE, MICROPILES, ABUTMENTS AND WINGWALLS AS SHOWN.
- 4) PERFORM LOW FLOW CHANNEL AND EMBANKMENT GRADING, AND INSTALL RIPRAP.
- 5) REMOVE STAGE 2 HANDLING-WATER-COFFERDAM
- 6) INSTALL PRESTRESSED DECK UNITS AND CONSTRUCT DECK SLAB CONCRETE, CHEEK WALLS AND END DIAPHRAGMS.
- 7) CONSTRUCT PARAPET, APPROACH WALL, BRIDGE RAIL, AND APPROACH SLAB.
- 8) INSTALL MEMBRANE WATERPROOFING AND PAVE.
- 9) INSTALL REMAINING GUIDERAILS, TURF ESTABLISHMENT, PAVEMENT MARKINGS AND REOPEN JUDD ROAD TO TRAFFIC. THE FINAL COURSE OF PAVEMENT SHALL BE PLACED IN ONE CONTINUOUS LIFT.
- 10) THE SEDIMENTATION CONTROL SYSTEM IS TO BE REMOVED AFTER IMPACTED AREAS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

TIME RESTRICTIONS:

UNCONFINED IN-STREAM: UNCONFINED IN-STREAM ACTIVITIES MUST BE LIMITED TO THE TIME PERIOD JUNE 1 THROUGH SEPTEMBER 30.

WATER HANDLING NOTES:

1. EQUIPMENT SHALL NOT BE PERMITTED IN THE STREAM WITHOUT APPROVAL FROM THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN WATER THROUGH THE TEMPORARY WATER HANDLING COFFERDAM SYSTEM AS REQUIRED DURING CONSTRUCTION OF THE NEW STRUCTURE.
3. A DEWATERING BASIN SHALL BE ESTABLISHED OUTSIDE OF THE WETLAND LIMITS.
4. TEMPORARY WATER HANDLING COFFERDAM SHALL CONSIST OF AN APPROVED SYSTEM THAT THE CONTRACTOR ELECTS TO USE WHICH WILL SAFELY CONVEY WATER FLOWS THROUGH THE CONSTRUCTION AREA, SHALL BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY AND SHALL CONFORM TO PERMITS.
5. TEMPORARY WATER HANDLING COFFERDAM MEASURES SHALL NOT EXCEED IMPACT AREAS SHOWN ON THE WETLAND AND FLOODPLAIN IMPACT SHEETS OF THE PERMITS.
6. ANY STORM DRAINAGE DISCHARGING INTO A CONFINED WORK AREA FROM EXISTING OR PROPOSED STORM DRAINAGE PIPES SHALL BE DIVERTED OR PUMPED OUTSIDE THE CONFINED AREAS. PUMPS/PIPES SHALL BE SIZED BY THE CONTRACTOR TO HANDLE THE EXPECTED FLOWS AND BE DISCHARGED TO A STABLE LOCATION.

▲	5/09/2025	REVISE ROADWAY GRADING & ELEVATIONS	SUPV.	K.O.E.
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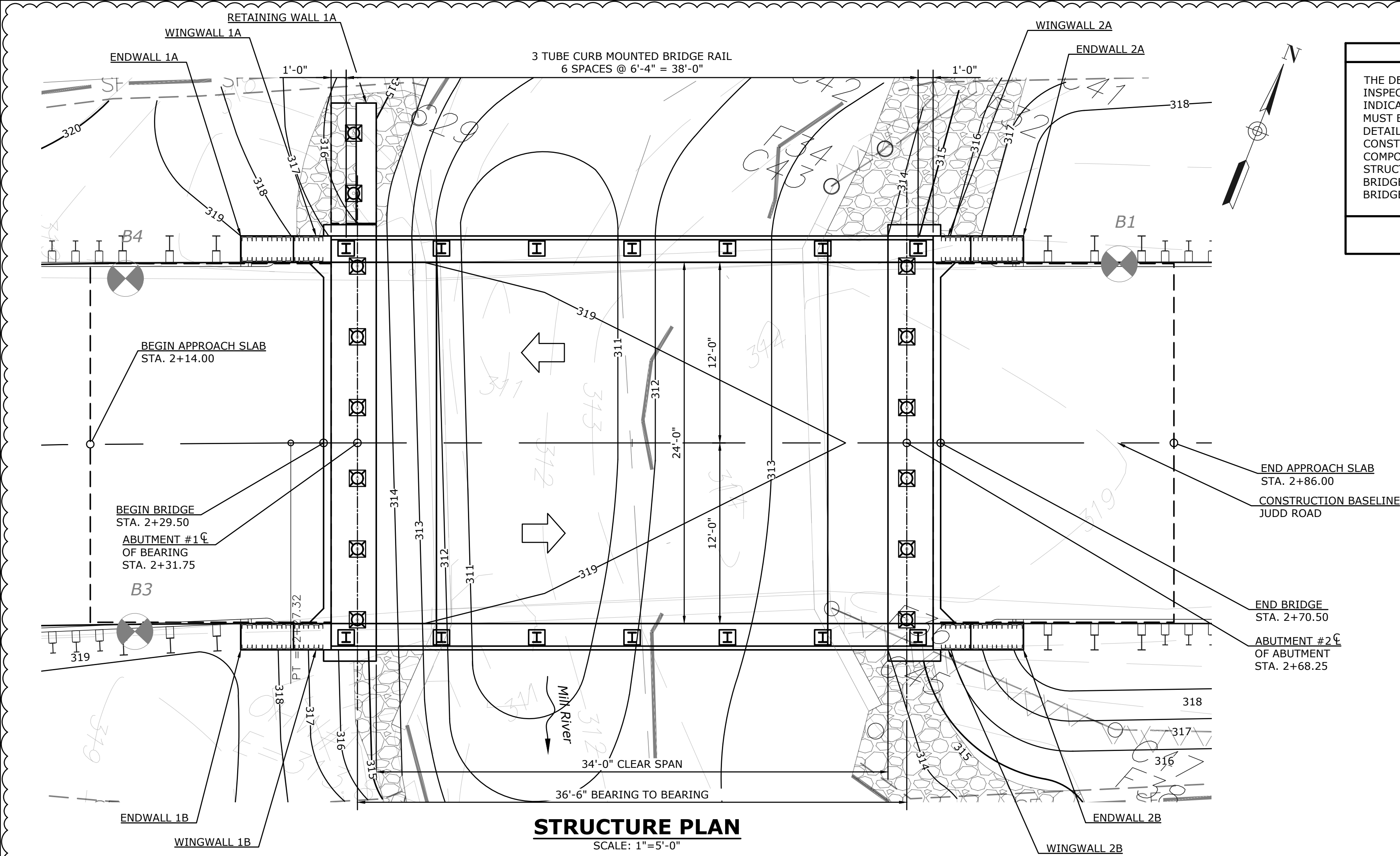
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REPLACEMENT OF BRIDGE 04929 JUDD ROAD OVER MILL RIVER HANDLING WATER PLAN

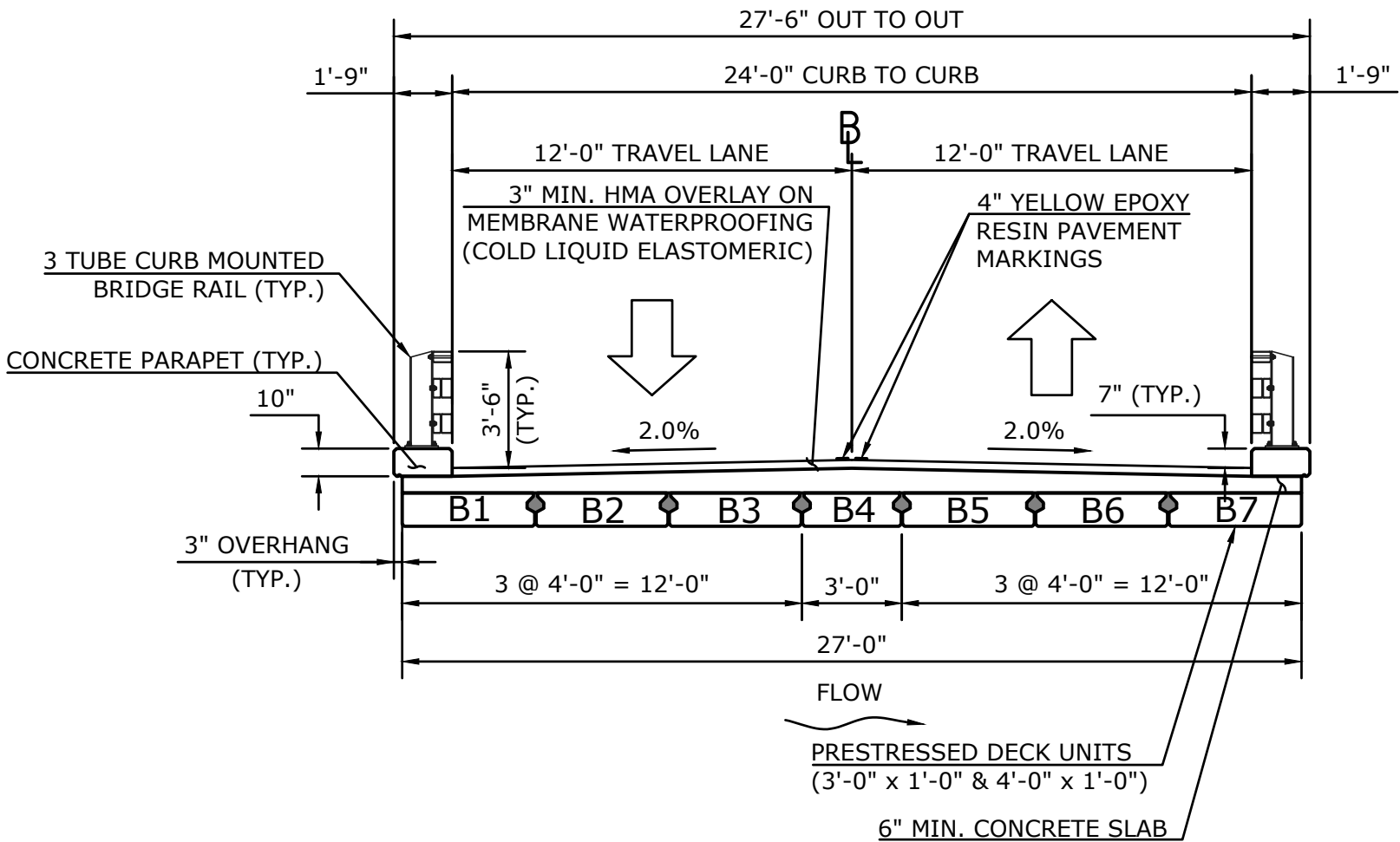
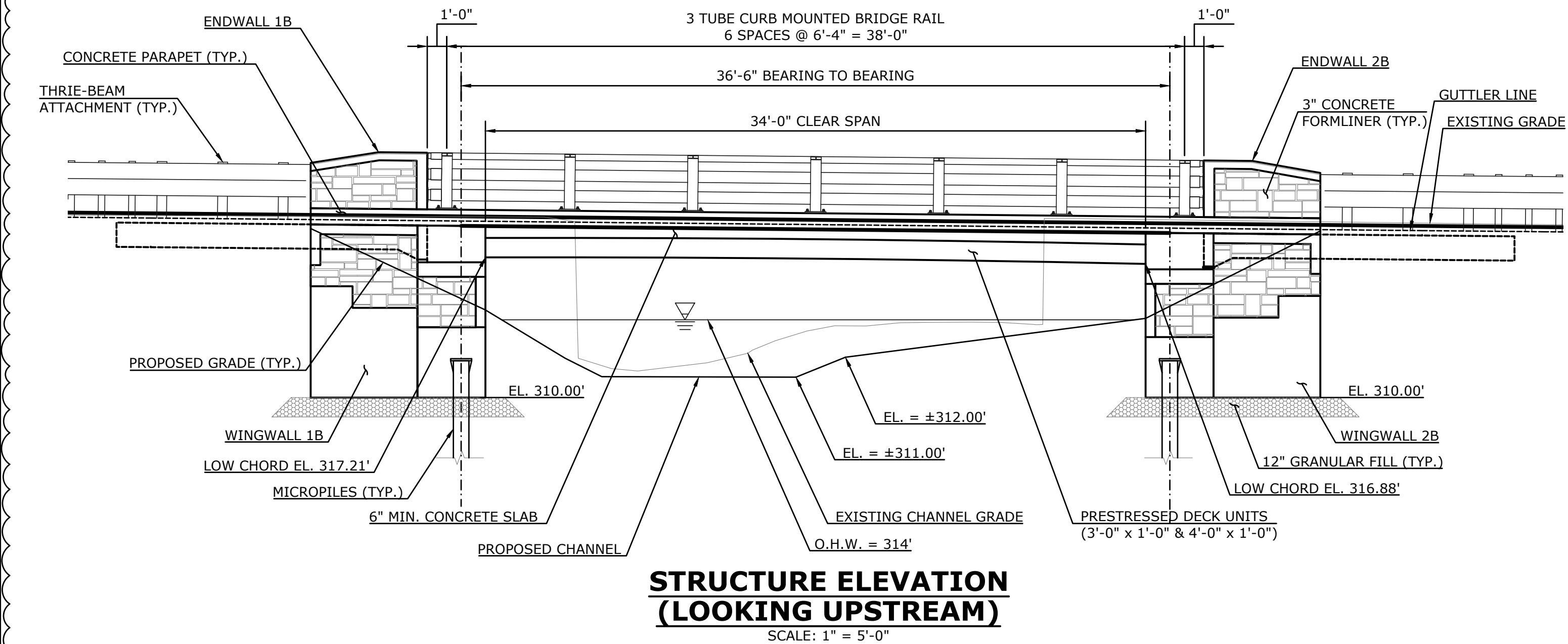
D -	JUDD ROAD	-	F.D.	-	22007.10	-	SHEET	11
SIZE	PROJECT		FILE NAME		NUMBER	REV.	OF	25



NOTICE TO BRIDGE INSPECTORS	
THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS (THE LISTING OF COMPONENTS FOR SPECIAL ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF THE INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE). THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OF BRIDGES AND STRUCTURES, OR NOTED BELOW.	
COMPONENT OR DETAIL	BRIDGE SHEET REF.
NONE	NONE

HYDRAULIC DATA	
DRAINAGE AREA	2.83 SQ. MILES
DESIGN FREQUENCY	100 YEAR
DESIGN DISCHARGE	675 C.F.S.
AVERAGE DAILY FLOW ELEVATION DOWNSTREAM	312.52 FT. ESTIMATED
UPSTREAM DESIGN WATER SURFACE ELEVATION	316.15 FT.
DOWNSTREAM DESIGN WATER ELEVATION	315.54 FT.
MAXIMUM SCOUR ELEVATION	305.38 FT.
FREQUENCY	500-YEAR
DISCHARGE	950 C.F.S.
WORST CASE SCOUR SUB-STRUCTURE UNIT	ABUTMENT #2

GENERAL NOTES:
SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020) SUPPLEMENTAL SPECIFICATIONS DATED JULY 2023 OR LATEST AT THE TIME OF BID AND SPECIAL PROVISIONS.
DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (AASHTO NINTH EDITION, DATED 2017 INCLUDING INTERIM SPECIFICATIONS UP TO 2018), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003), UP TO AND INCLUDING 2019.
MATERIAL STRENGTHS:
CONCRETE:
CLASS PCC 03340 $f_c = 3000$ P.S.I.
CLASS PCC 04460 $f_c = 4000$ P.S.I.
CLASS PCC 04462 $f_c = 4000$ P.S.I.
CLASS PCC 06662 $f_c = 6000$ P.S.I.
THE CONCRETE STRENGTH, f_c , USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES, AND M.03 - PORTLAND CEMENT CONCRETE
REINFORCEMENT:
ASTM A615 GRADE 60, $f_y=60,000$ PSI
LIVE LOAD: HL-93, LEGAL AND PERMIT VEHICLES
BITUMINOUS CONCRETE OVERLAY: SHALL CONSIST OF 2" (MIN.) HMA S0.5 ON 1" OF HMA S0.25 ON MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC).
FOUNDATION PRESSURES AND PILE LOADS: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
FUTURE PAVING ALLOWANCE: NONE
DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.
EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR REVIEW, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.
SUPERSTRUCTURE REMOVAL: BEFORE INITIATING CONSTRUCTION, CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL DEFINING METHOD FOR PROTECTION OF THE STREAM AREA DURING REMOVAL OF EXISTING BRIDGE. COST TO BE INCLUDED IN THE COST OF "REMOVAL OF SUPERSTRUCTURE".
HANDLING WATER: BEFORE INITIATING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL THAT DEFINES METHODS AND MATERIALS FOR CONTROLLING STREAM WATER (COFFERDAMS, ETC.), DEWATERING, STRUCTURE EXCAVATION AND PROTECTING THE STREAM DURING VARIOUS STAGES OF CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "WATER-HANDLING-COFFERDAMS".
UNCONFINED IN-STREAM ACTIVITY: ACTIVITIES MUST BE LIMITED TO THE TIME PERIOD BETWEEN JUNE 1 THROUGH SEPTEMBER 30.
BRIDGE IDENTIFICATION PLACARDS: THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION SIGNS AT EACH LEADING AND OF THE BRIDGE ON THE TRAFFIC SIDE. THE SIGNS SHALL BE FABRICATED WITH 40 GAUGE ALUMINUM SHEET METAL. THE SIGNS SHALL BE 4" X 12" WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON GREEN REFLECTIVE SHEETING. EACH SIGN SHALL READ "04929". ALL COST ASSOCIATED WITH PROVIDING AND INSTALLING THE BRIDGE SIGNS SHALL BE COVERED UNDER ITEM "SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)". THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
MASH TEST LEVEL: THE 3 TUBE CURB MOUNTED BRIDGE RAIL MEETS THE TL-4 CRITERIA FOR MASH 2016.



CONCRETE NOTES:
CONCRETE: THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS:

ITEM	BRIDGE COMPONENTS	PCC CLASS
FOOTING CONCRETE	RETAINING WALL FOOTING	PCC03340
ABUTMENT AND WALL CONCRETE	WINGWALL STEMS, ABUTMENT STEMS	PCC03340
APPROACH SLAB CONCRETE	APPROACH SLABS	PCC04460
PARAPET CONCRETE	BRIDGE AND ENDWALL PARAPETS	PCC04462
BRIDGE DECK CONCRETE	BRIDGE DECK CONCRETE SLAB, CHEEKWALL, END DIAPHRAGM	PCC04462

PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES".
EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"X1" UNLESS DIMENSIONED OTHERWISE
CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE MIN. 2" COVER UNLESS DIMENSIONED OTHERWISE.
REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM " DEFORMED STEEL BARS-GALVANIZED."
CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

TRANSPORTATION DIMENSIONS AND WEIGHT				
MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING WEIGHT
B1, B7	38'-0"	2'-2"	4'-10"	22,189 LBS
B2, B3, B5 & B6	38'-0"	1'-3"	4'-0"	21,599 LBS
B4	38'-0"	1'-3"	3'-0"	15,899 LBS

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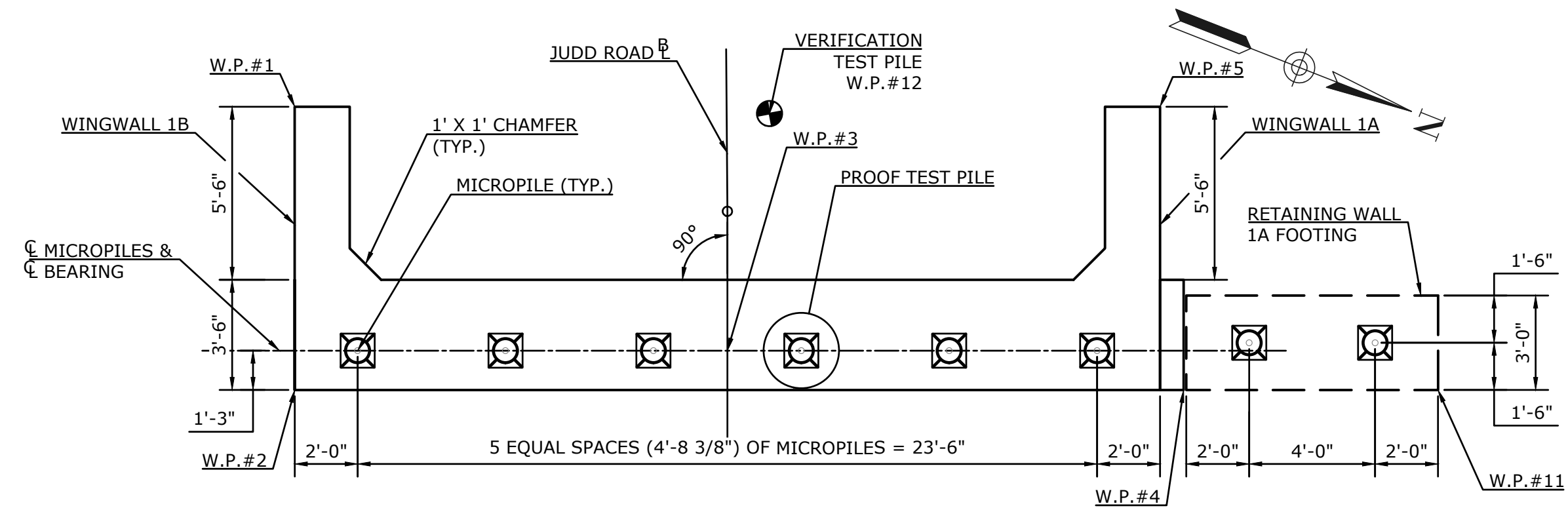
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		DESIGN	E.O.D.
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NO.	DATE	DESCRIPTION	DATE
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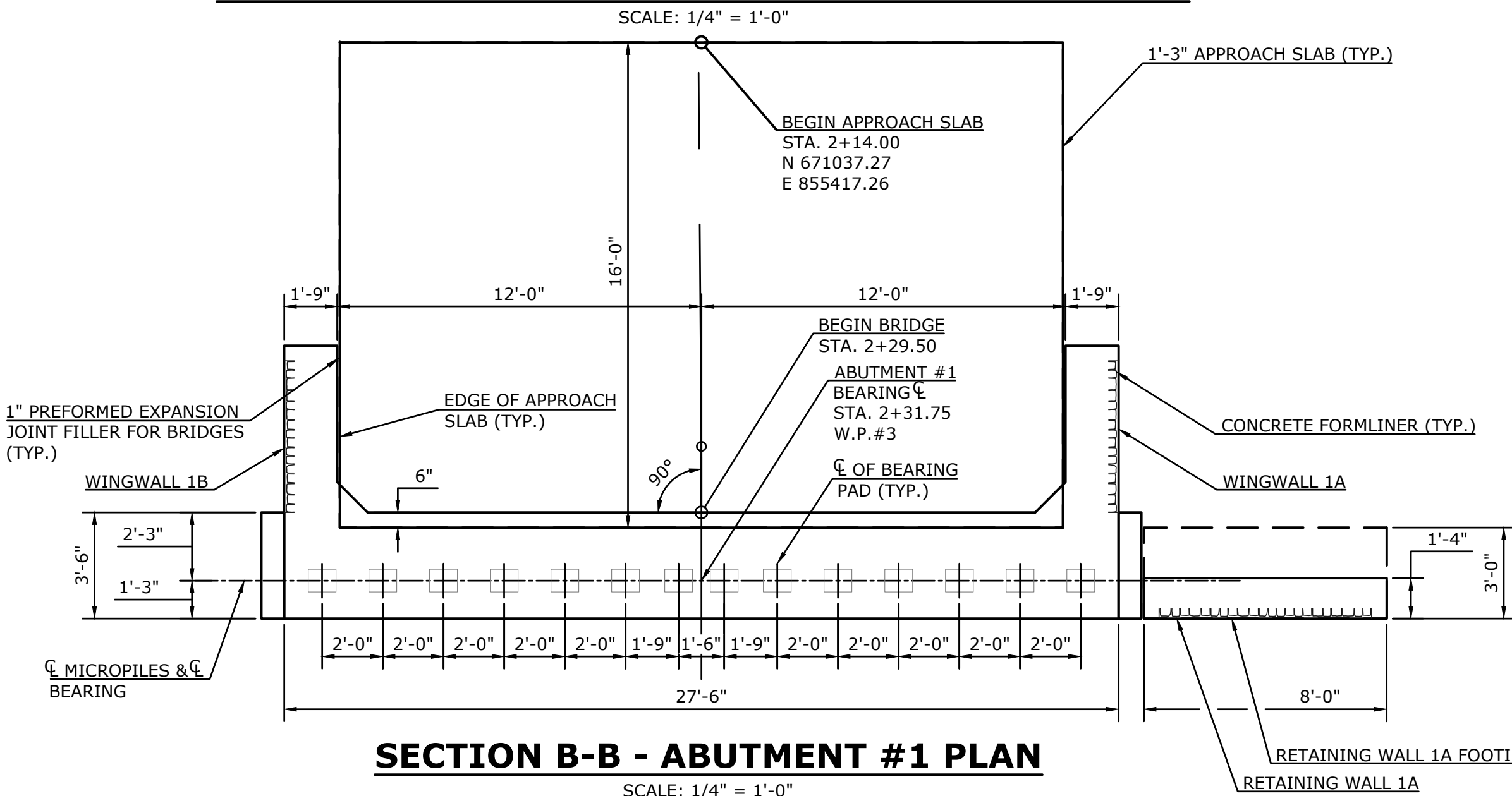
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TOWN OF MONROE
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MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
STRUCTURE SECTION AND ELEVATION

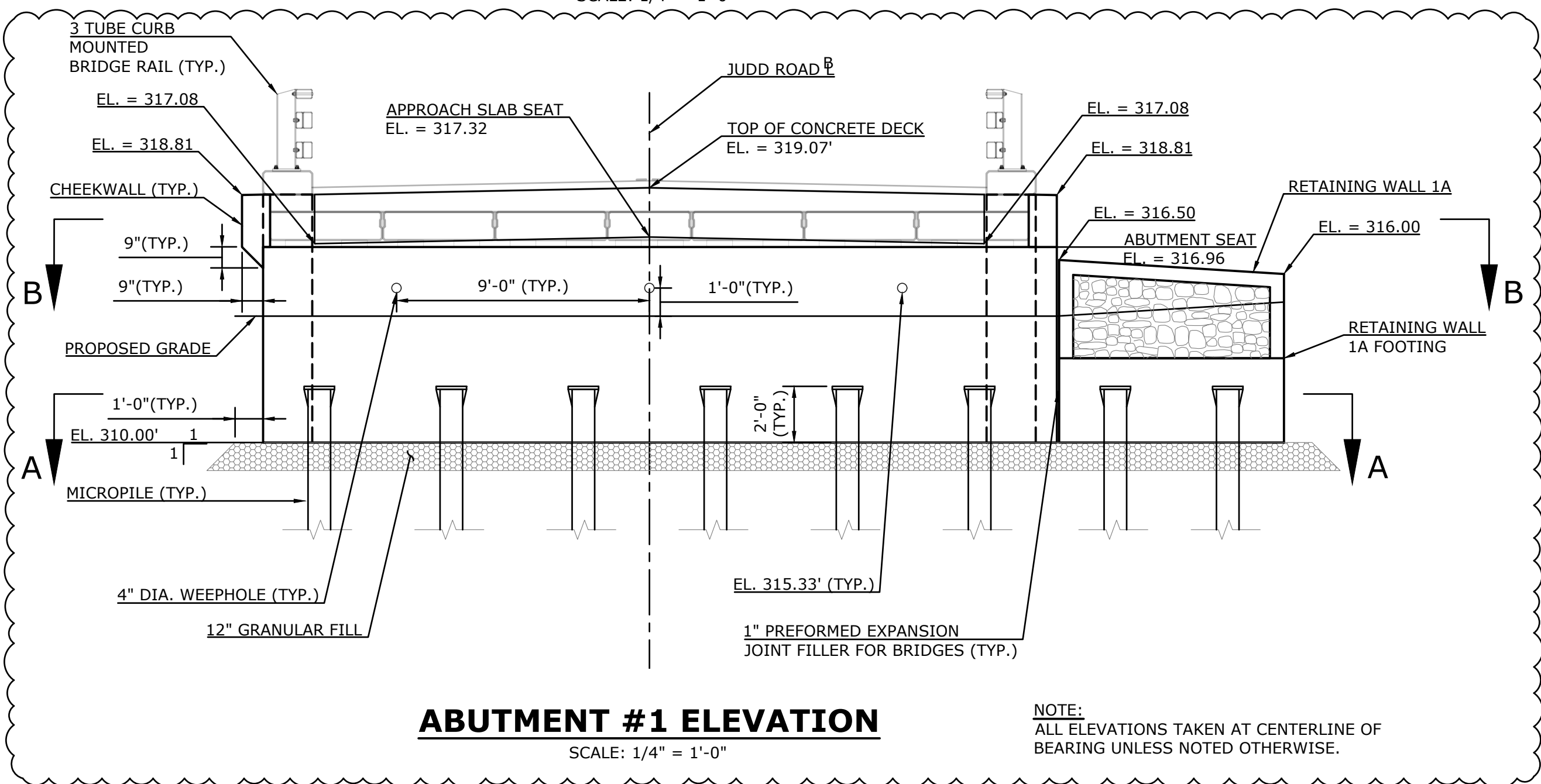
D -	JUDD ROAD	F.D.	22007.10		SHEET	13
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25



SECTION A-A - ABUTMENT #1 - MICROPILE LAYOUT



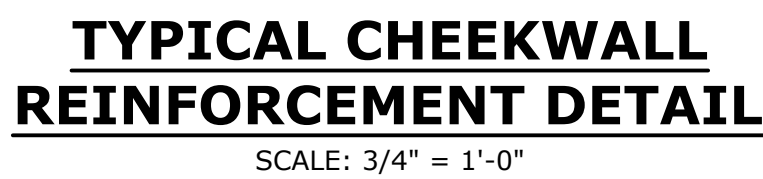
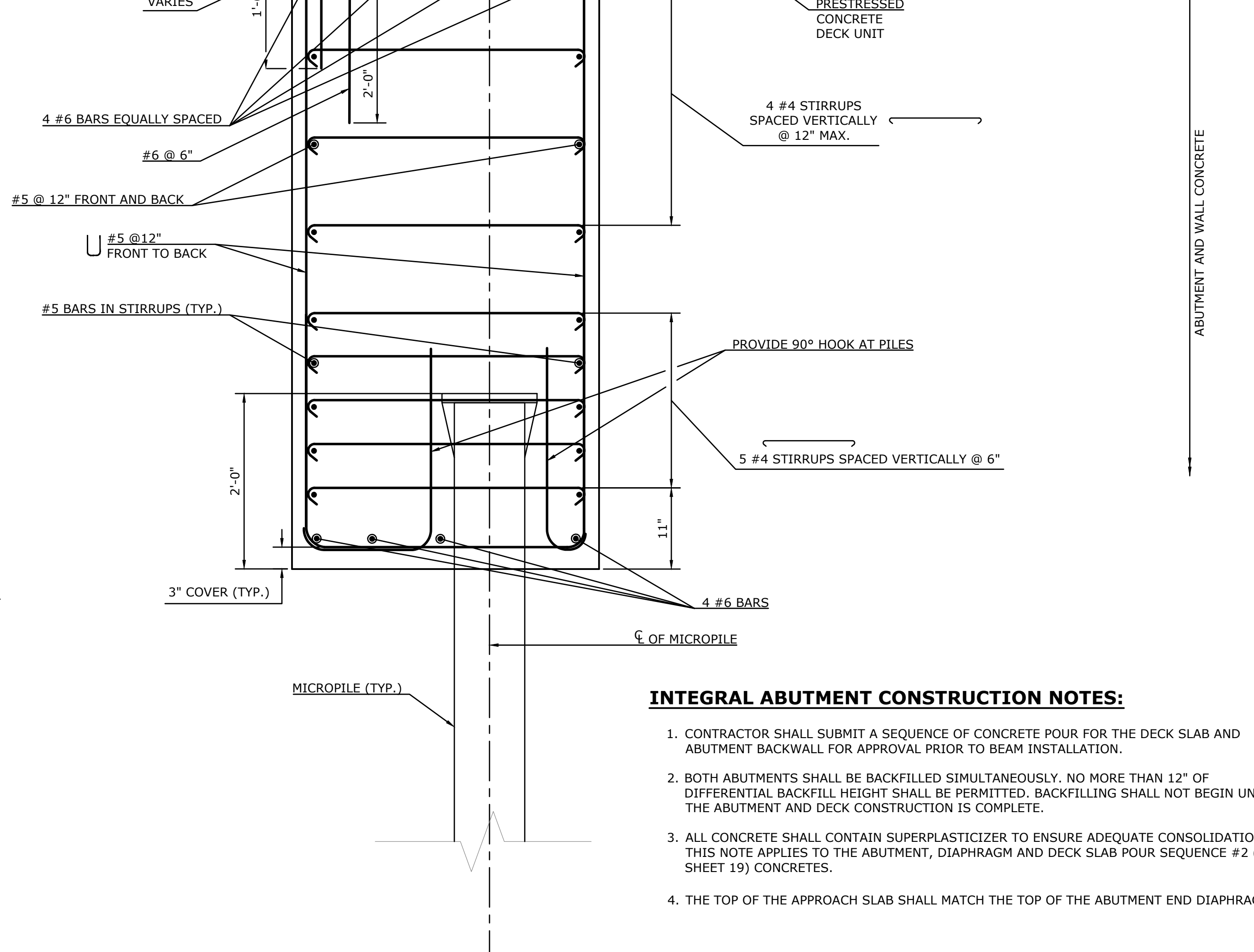
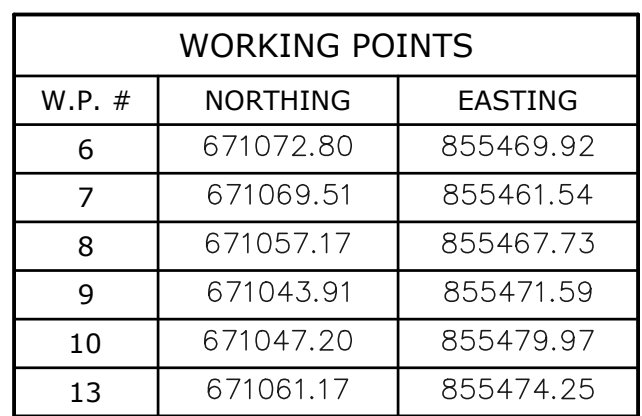
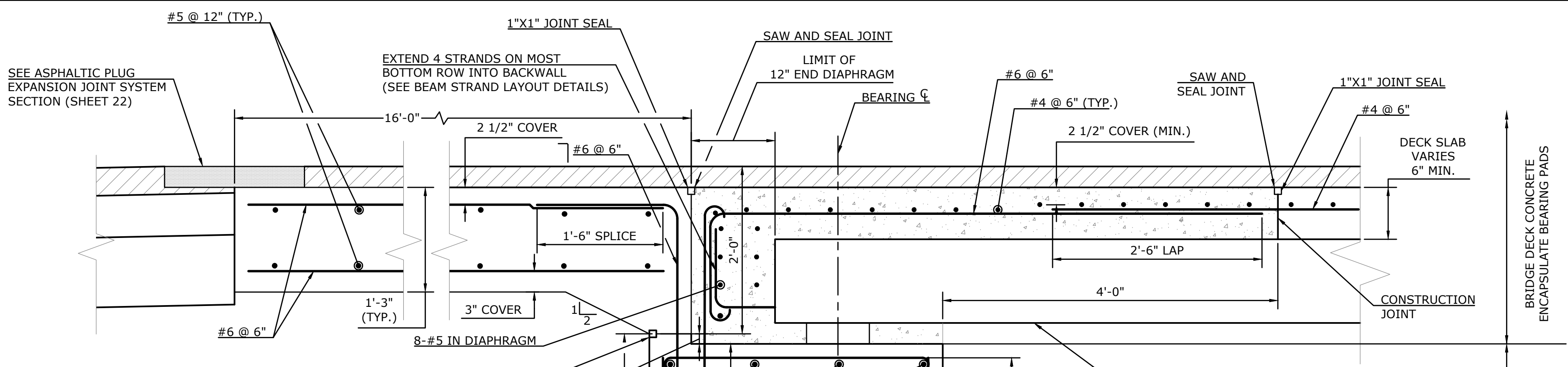
SECTION B-B - ABUTMENT #1 PLAN



ABUTMENT #1 ELEVATION

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			DESIGN	E.O.D.
			DRAWN	P.W.S.
			CHECKED	K.K.
NO.	DATE	DESCRIPTION	DATE	03/08/2024
REVISIONS				



1. CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONCRETE POUR FOR THE DECK SLAB AND DIAPHRAGM FOR APPROVAL PRIOR TO BEAM INSTALLATION.
2. BOTH ABUTMENTS SHALL BE BACKFILLED SIMULTANEOUSLY. NO MORE THAN 12" OF DIFFERENTIAL BACKFILL HEIGHT SHALL BE PERMITTED. BACKFILLING SHALL NOT BEGIN UNTIL THE ABUTMENT AND DECK CONSTRUCTION IS COMPLETE.

1. CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONCRETE POUR FOR THE DECK SLAB AND ABUTMENT BACKWALL FOR APPROVAL PRIOR TO BEAM INSTALLATION.
2. BOTH ABUTMENTS SHALL BE BACKFILLED SIMULTANEOUSLY. NO MORE THAN 12" OF DIFFERENTIAL BACKFILL HEIGHT SHALL BE PERMITTED. BACKFILLING SHALL NOT BEGIN UNTIL THE ABUTMENT AND DECK CONSTRUCTION IS COMPLETE.
3. ALL CONCRETE SHALL CONTAIN SUPERPLASTICIZER TO ENSURE ADEQUATE CONSOLIDATION. THIS NOTE APPLIES TO THE ABUTMENT, DIAPHRAGM AND DECK SLAB POUR SEQUENCE #2 (SEE SHEET 19) CONCRETES.
4. THE TOP OF THE APPROACH SLAB SHALL MATCH THE TOP OF THE ABUTMENT END DIAPHRAGM.

A	5/09/2025	UPDATED ELEVATIONS	SUPV.	K.O.E.
			DESIGN	E.O.D.
			DRAWN	P.W.S.
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	NO.	DATE	DESCRIPTION	DATE
REVISIONS				

SUPV.	K.O.E.
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DATE	03/08/2024

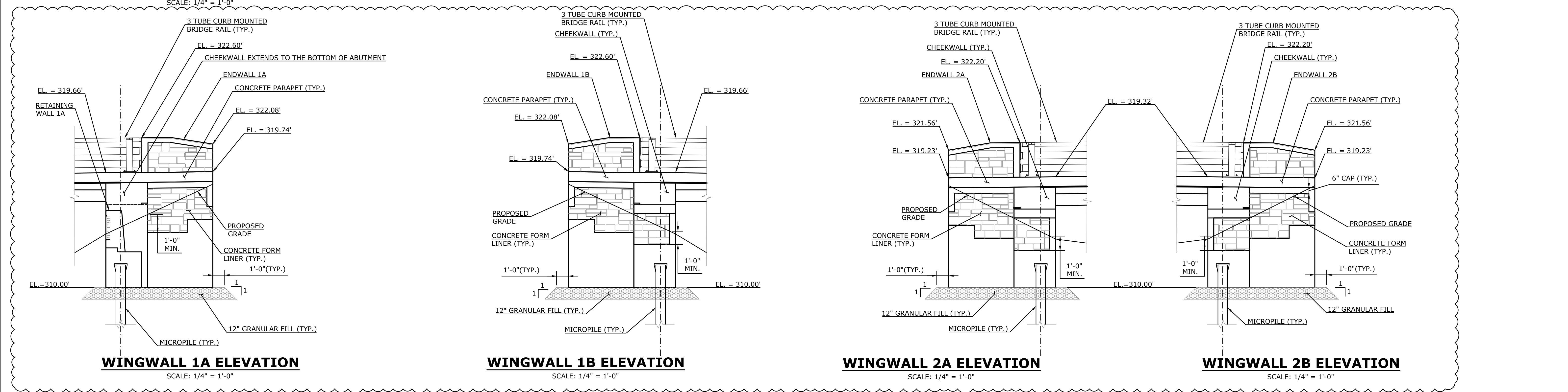
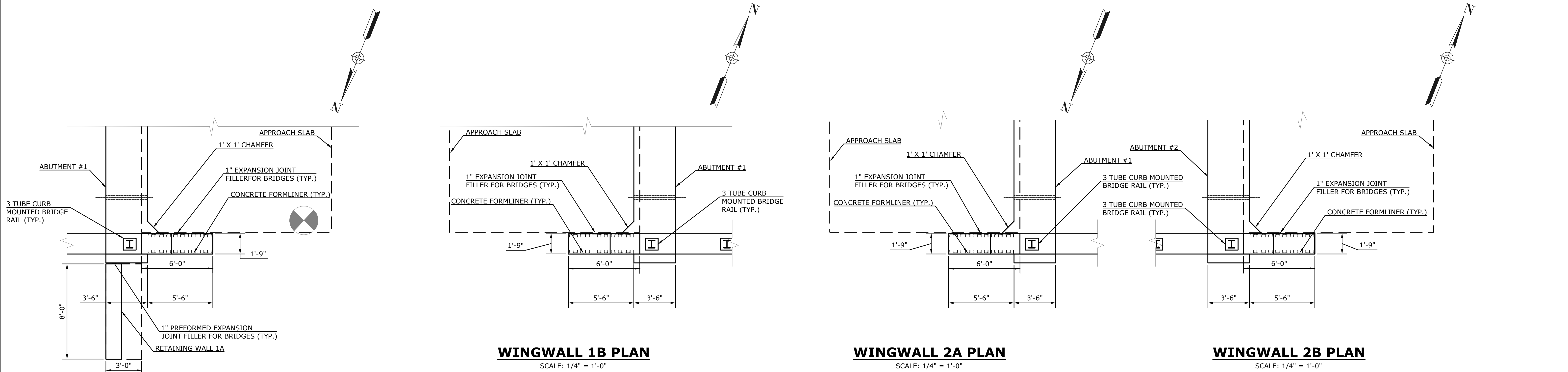
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REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ABUTMENT NO. 2 PLAN AND ELEVATION

D	JUDD ROAD	F.D.	22007.10	
SIZE	PROJECT	FILE NAME	NUMBER	REV.

SHEET	17
OF	25



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		DRAWN	P.W.S.
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		REVISIONS	
		DATE	03/08/2024

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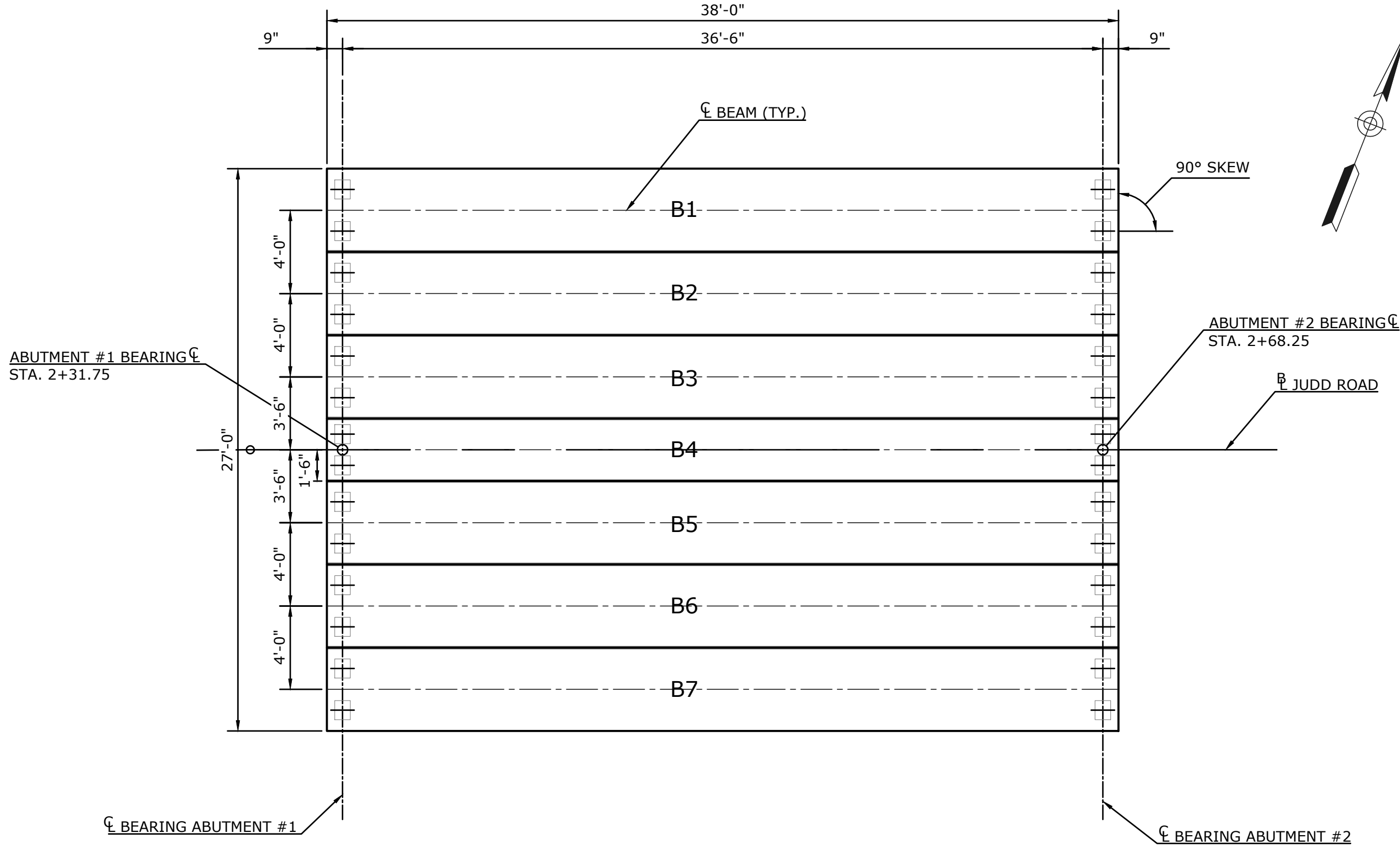
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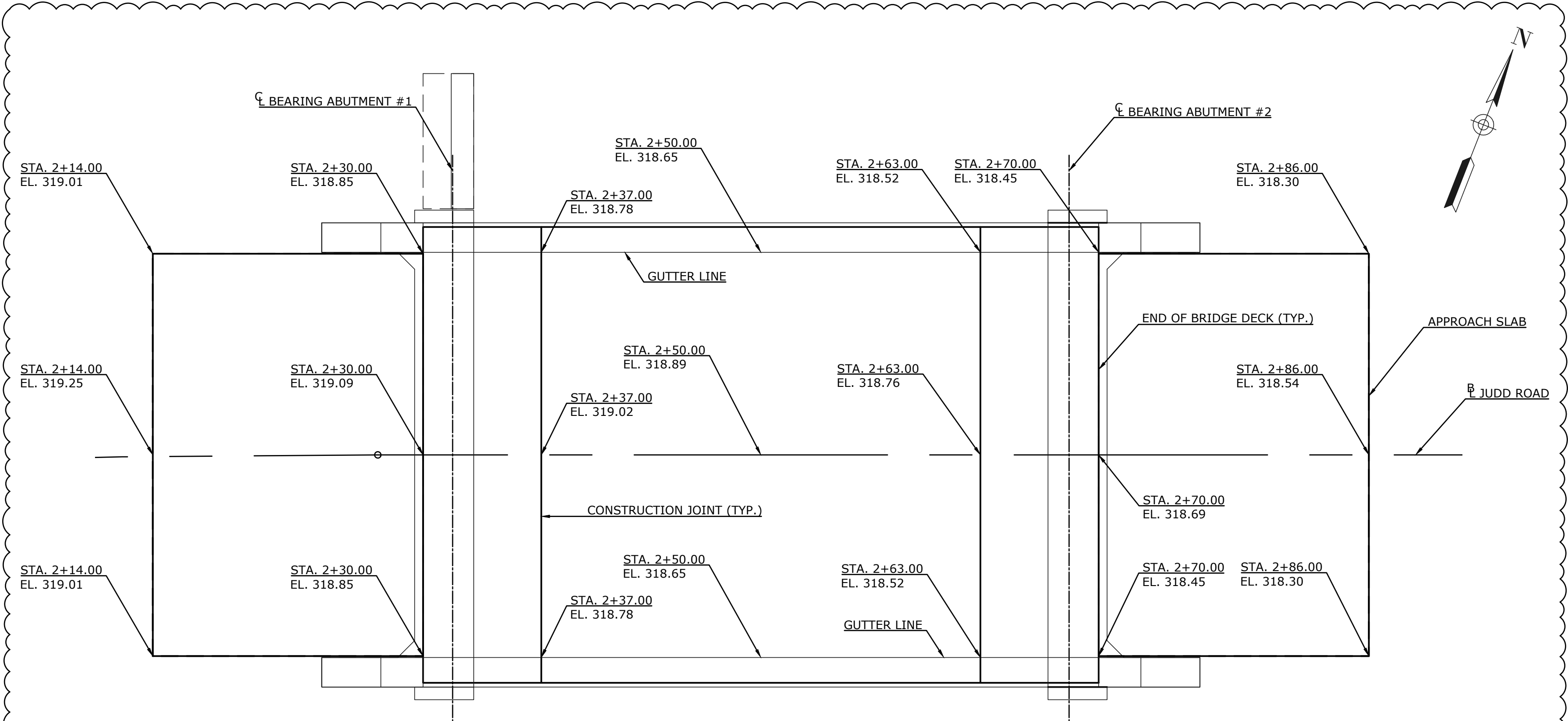
REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
WINGWALL PLANS AND ELEVATIONS

D - JUDD ROAD - F.D. - 22007.10 -					SHEET	18
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25



FRAMING PLAN

SCALE: 1"=5'-0"

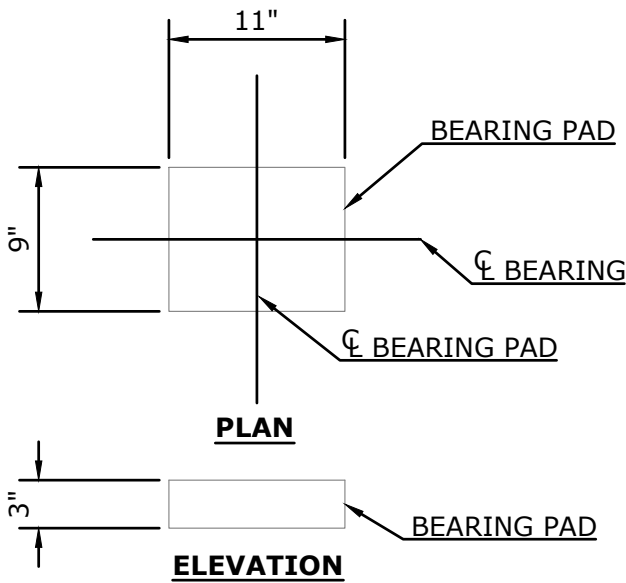


DECK & APPROACH SLAB PLAN

SCALE: 1"=5'-0"

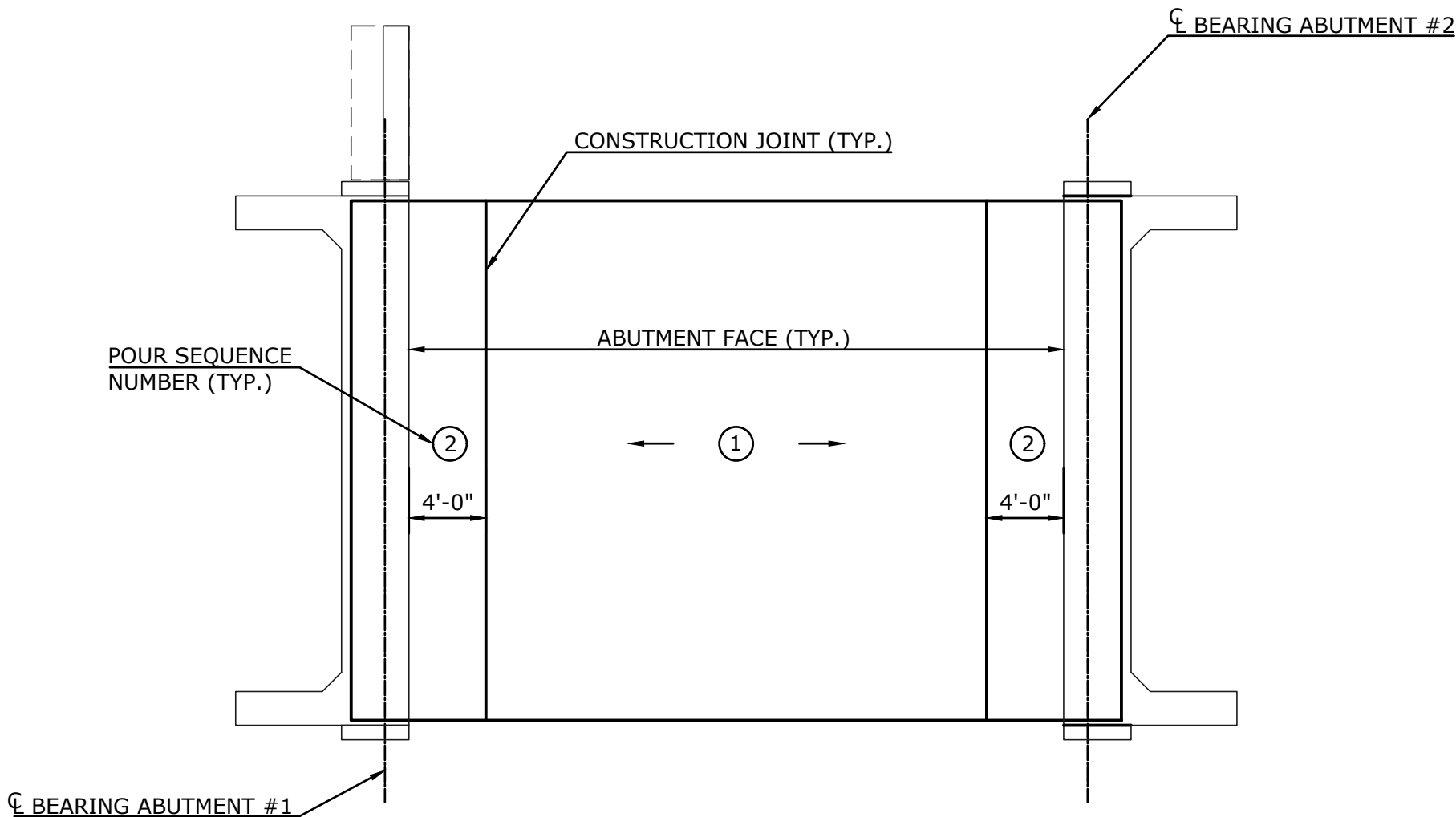
BEARING ASSEMBLY NOTES:

1. THE ELASTOMER SHALL BE TYPE CR, GRADE 3 AS DEFINED BY ASTM D4014 AND SHALL HAVE A SHORE A DUROMETER HARDNESS OF 70+/- 5 POINTS AND A SHEAR MODULUS WITHIN LIMITS 200 TO 250 PSI.
2. THE ELASTOMERIC BEARING SHALL BE INSTALLED WHEN THE AMBIENT AIR TEMPERATURE IS BETWEEN 41 F AND 77 F AND HAS BEEN WITHIN THIS RANGE FOR MORE THAN TWO HOURS.
3. THE CONCRETE ABUTMENT SEATS SHALL BE CAREFULLY RAKE FINISHED TO AN EVEN, LEVEL SURFACE AND SHALL SHOW NO VARIATIONS FROM A TRUE PLANE GREATER THAN 1/16" .



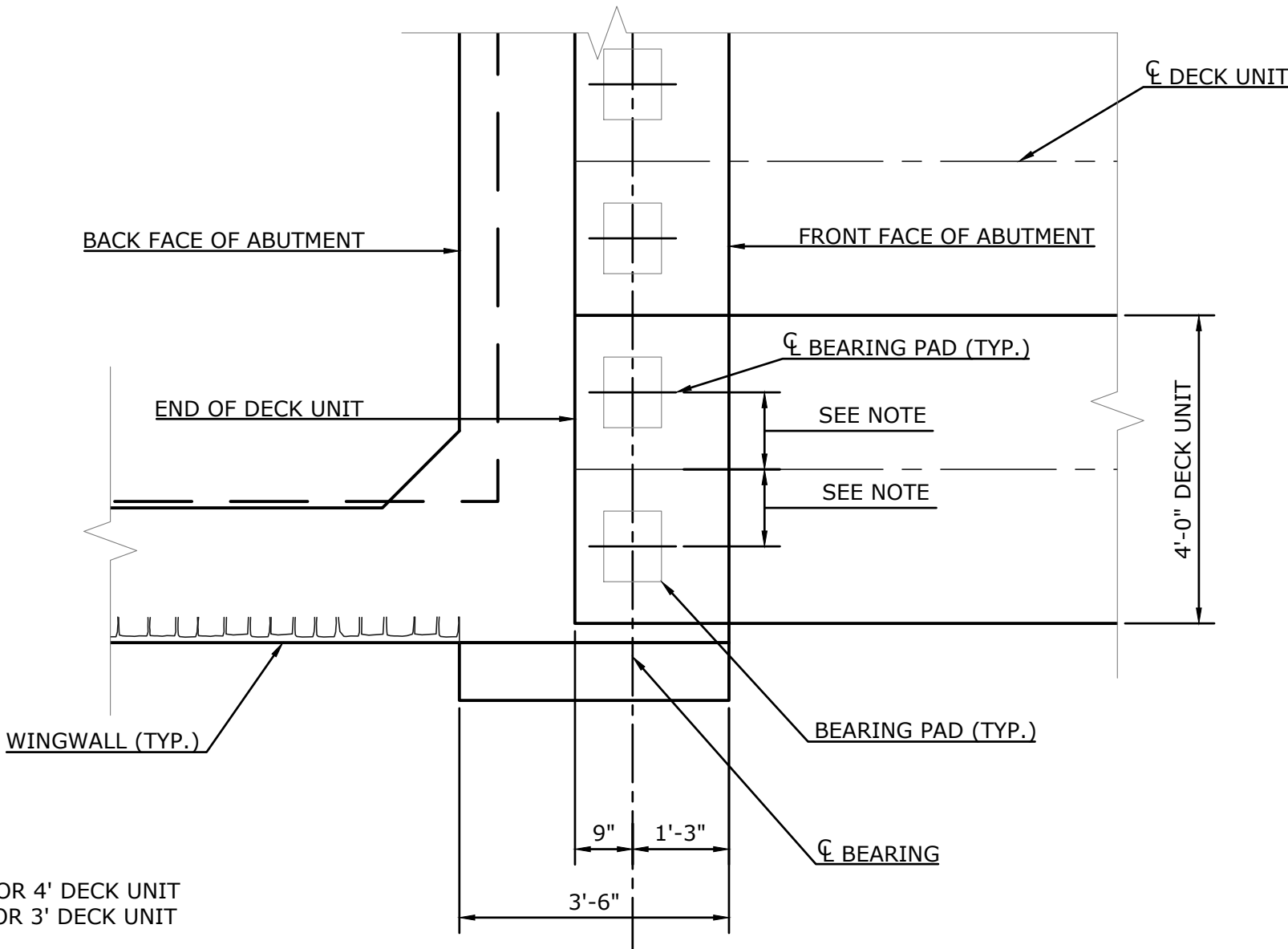
ELASTOMERIC BEARING PAD DETAIL

SCALE: 1"=1'-0"



SHEAR SLAB PLACEMENT/POUR SEQUENCE

SCALE: 1/8"=1'-0"



ELASTOMERIC BEARING PAD LAYOUT

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

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REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
FRAMING AND DECK PLAN

D	JUDD ROAD	F.D.	22007.10		SHEET	19
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25