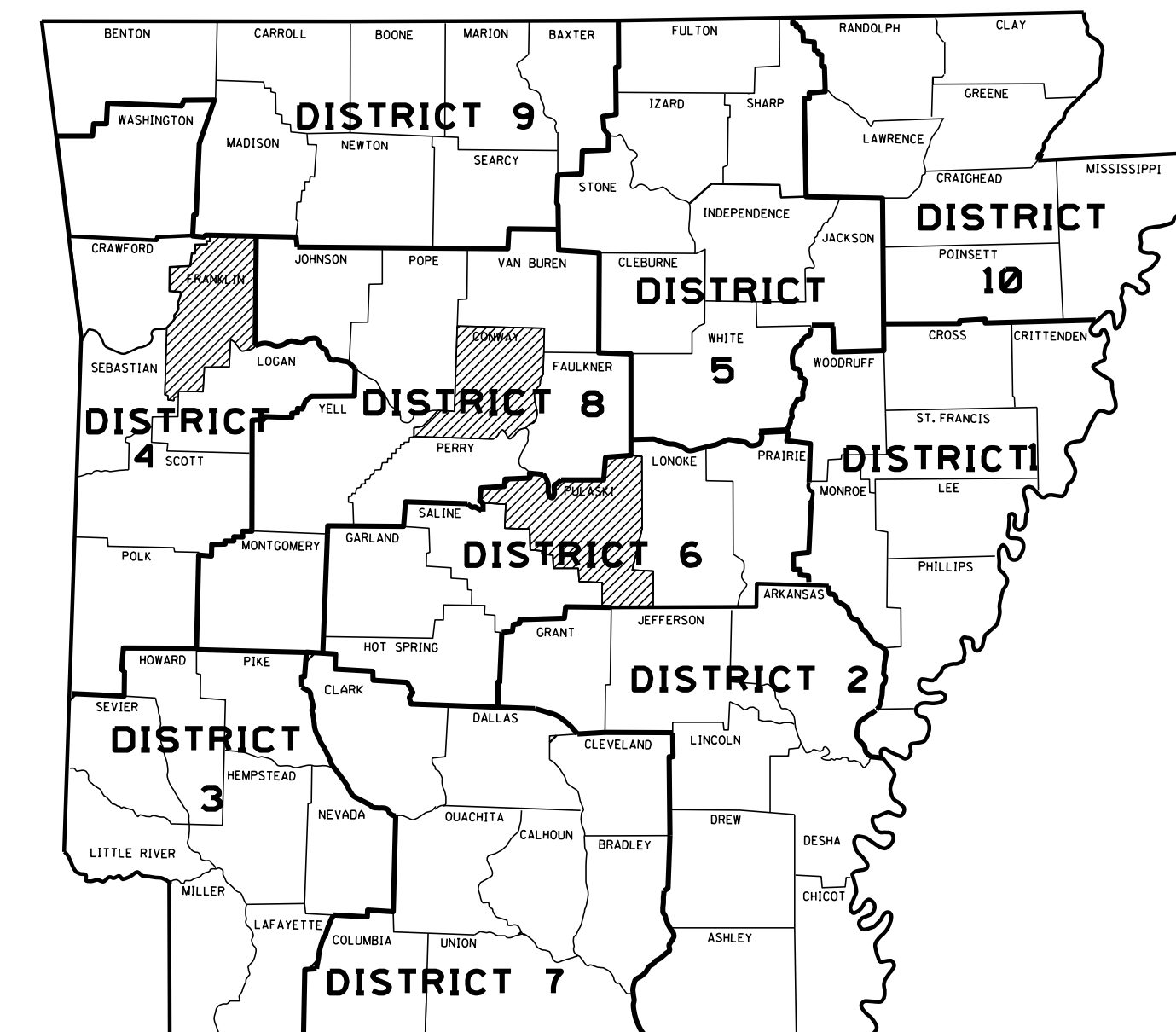


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
04-16-2020				6	ARK.			
						JOB NO.	012357	1
						① ARKANSAS RIVER PIER PROTEC. REPAIRS		

ARKANSAS DEPARTMENT OF TRANSPORTATION
MAINTENANCE PLANS

ARKANSAS RIVER PIER PROTECTION REPAIRS (S)
CONWAY, FRANKLIN & PULASKI COUNTIES
ROUTES 30, 9, & 23 SECTIONS 23, 7, & 6
JOB 012357
FED. AID PROJ. STPAC-0076(123)



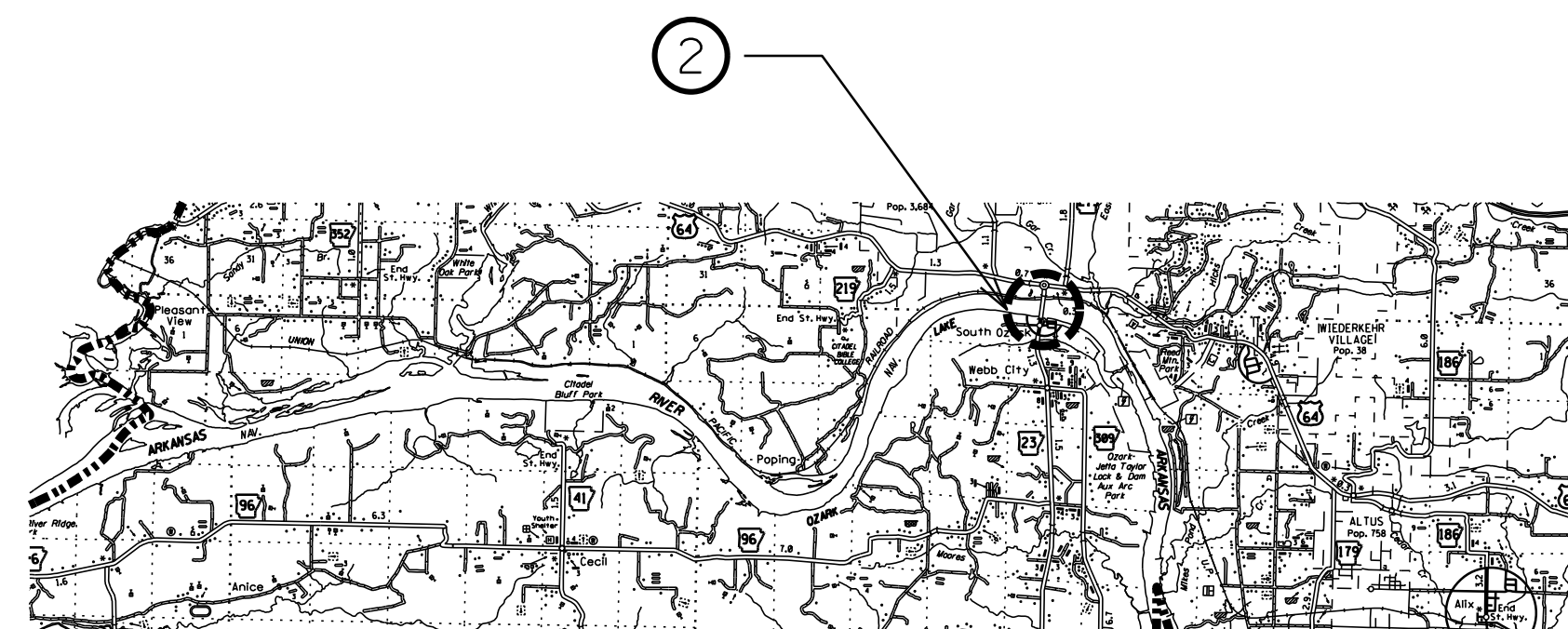
ARKANSAS HIGHWAY DIST. 4, 6 & 8



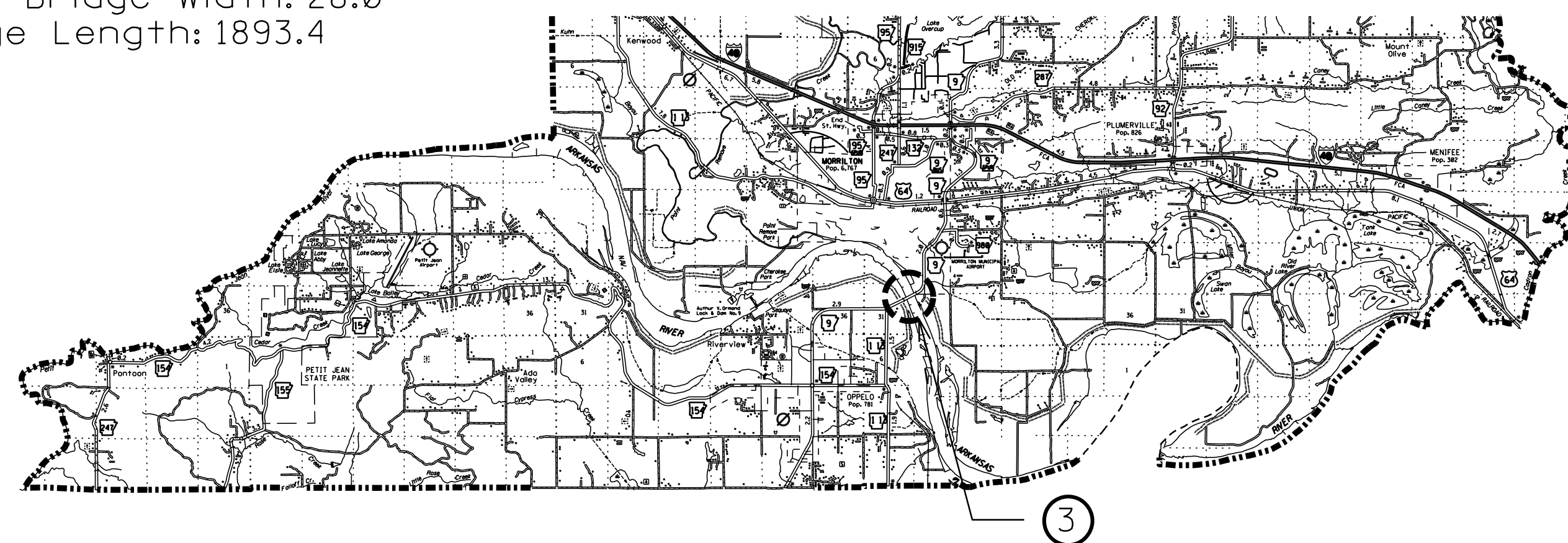
	Asset Name/ Str. Number	Latitude	Longitude
①	02768	34° 45' 1" N	92° 15' 46" W
②	A1210	35° 28' 59" N	93° 49' 57" W
③	05050	35° 7' 34" N	92° 43' 59" W

Bridge Information

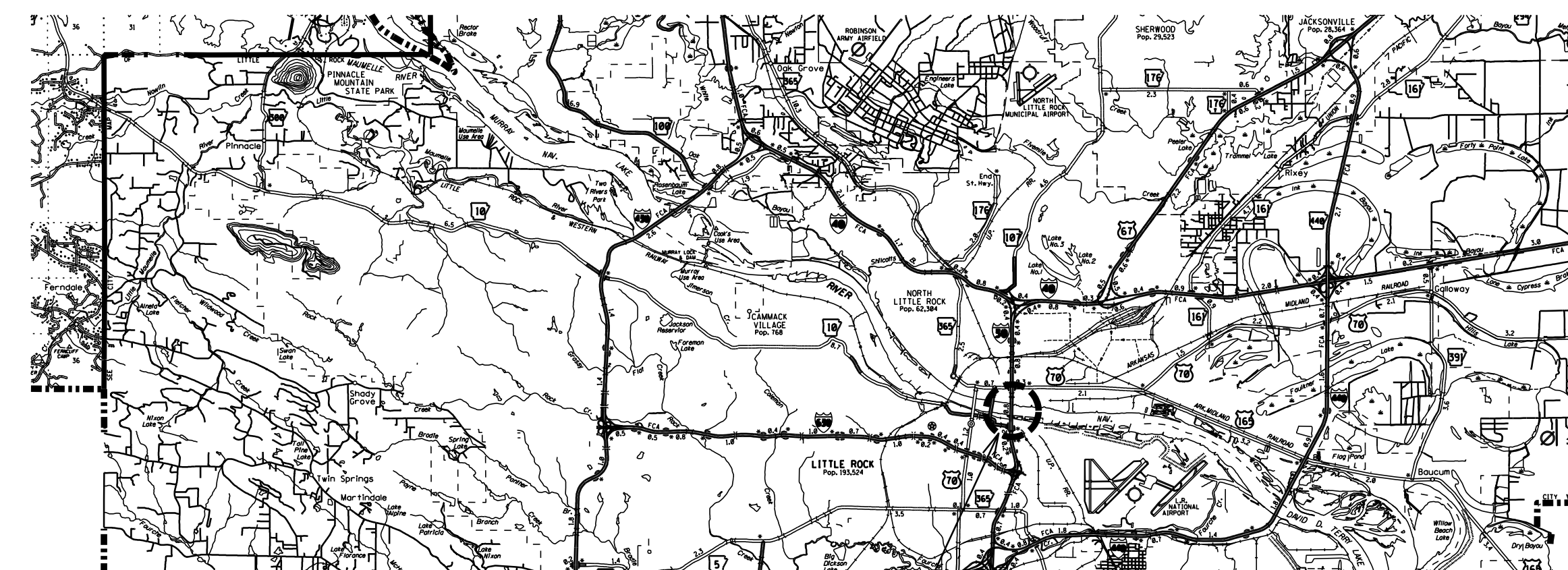
- ① Bridge No. 02768
Log Mile: 140.41
Clear Bridge Width: 95.1'
Bridge Length: 3040.0'
- ② Bridge No. A1210
Log Mile: 12.04
Clear Bridge Width: 28.0'
Bridge Length: 1537.0'
- ③ Bridge No. 05050
Log Mile: 5.24
Clear Bridge Width: 28.0'
Bridge Length: 1893.4



FRANKLIN COUNTY



CONWAY COUNTY



PULASKI COUNTY

VICINITY MAPS

This job does not impact vehicular traffic, so a TMP is not required.



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
04-16-2020				6	ARK.			
						012357	2	9

① GENERAL NOTES, INDEX & SPECIFICATIONS 61438

GENERAL NOTES

SCOPE OF WORK - Site 1, I-30 Bridge over Arkansas River in Little Rock

1. Remove and replace existing pier protection cell on west side of Pier 21.
2. Place new cell mounted navigation light on west side of Pier 21.
3. Refill existing pier protection cells on west side of Pier 20 and east side of Pier 21 with riprap.

SCOPE OF WORK - Site 2, SH 23 Bridge over Arkansas River in Ozark

1. Refill existing pier protection cells on east side of Pier 2 and east side of Pier 4 with riprap.

SCOPE OF WORK - Site 3, SH 9 Bridge over Arkansas River in Morrilton

1. Refill existing pier protection cells on north side of Pier 11 and north side of Pier 12 with riprap.

DESIGN SPECIFICATIONS:

AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2016 Interim Revisions.
 AASHTO Guide Specifications and Commentary for Vessel Collision of Highway Bridges, 2nd Edition, with 2010 Interim Revisions.
 ANSI/AASHTO/AWS Bridge Welding Code D1.5-2010.

CONSTRUCTION SPECIFICATIONS:

Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2014, with applicable supplemental specifications and special provisions. Unless otherwise noted, references to section and subsection numbers in the plans refer to the Construction Specifications.

DATUM:

All elevations are in feet, based on the North American Vertical Datum (NAVD), 1988 adjustment, except as noted. Horizontal - NAD 83 (1997) Arkansas North Zone.

DIMENSIONS, LOCATIONS, AND PIER NUMBERING:

Dimensions and locations provided are based on existing as-built plans. Dimensions not provided shall be determined in the field with the aid of the as-built plans. Pier numbering, unless otherwise noted on the plans, is taken from the as-built plans.

DESIGN LOADS:

Vessel Impact Loads:			
Normal Operation Design Force	2,800	Kips	
Drifting Empty Barge Design Force	1,440	Kips	
Normal Operation Design Speed	5.9	Ft./Sec.	
Drifting Empty Barge Design Speed	2.9	Ft./Sec.	
Normal Operating Design Water Surface Elevation	231.0	Ft.	
Drifting Empty Barge Design Water Surface Elevation	247.2	Ft.	

ENVIRONMENTAL COMPLIANCE:

Prior to the commencement of any work, the Contractor shall obtain a copy of the Environmental Clearance Document as well as copies of all Permits and Agreements obtained by ArDOT. The Contractor shall thoroughly comply with all requirements set forth in those documents. This project is covered under a Nationwide 3 Section 404 Permit. Refer to Section 110 of the Standard Specifications, Edition of 2014, for permit requirements.

MATERIALS:

Except as specifically stated otherwise in the contract documents, the Contractor shall provide all materials necessary for the completion of the contract. All materials of every description furnished by the Contractor for permanent installation on this project, shall be new and in pristine condition when installed.

STRUCTURAL STEEL:

Except as noted below, all steel shall be structural carbon steel conforming to ASTM A709, Grade 36. Any necessary material substitutions shall require prior approval from the Engineer. All steel may be uncoated.

Sheet Piles: All sheet piles for new pier protection cell shall be ASTM 572 Grade 50.

Bolted Connections: Unless noted otherwise in the plans, all bolts connections shall be made using ASTM F3125, Grade A325 high-strength bolts. Nuts shall be ASTM A563, Grade DH and washers shall be ASTM F436. All bolts, nuts, and washers shall be Type 1.

SUBMITTALS:

Shop Drawings and other Submittals shall be in accordance with ArDOT's Standard Specifications for Highway Construction. All submittals shall be subject to review and subsequent approval or rejection by the Engineer. Approval of submittals shall not be construed by the Contractor in any way to relieve himself of any liability or responsibility as set forth in the contract documents. At a minimum, the Contractor shall provide the following submittals prior to construction:

- Fabrication Details of New Pier Protection Cell
- Cell-Mounted Navigation Light Components and Hardware
- Riprap Gradation Certification from the Material Source

WELDING:

All welding shall conform to the requirements set forth in the ArDOT Standard Specification for Highway Construction. All welds shall be continuous. Shop welds shall only be as shown in the shop drawings and are subject to review and approval by the Engineer. Field welding (including tack welding) shall only be allowed as permitted by the plans.

MAINTENANCE OF MARINE TRAFFIC AND COAST GUARD NAVIGATION:

For all general communication, the Contractor shall coordinate with the U.S. Coast Guard (USCG) through the Engineer. In cases of emergency, the Contractor shall immediately notify the USCG using the contact information below, then notify the Engineer.

The Contractor shall conduct his operations in such manner as to minimize impact to marine traffic.

At least thirty (30) days prior to commencement of construction activity at the site, the Contractor shall submit to the Engineer a work plan that details the anticipated dates, times, and impacts on navigation, including waterway closures, obstructions to navigation, and any reductions to horizontal and vertical clearance. USCG approval will be required for any temporary closures or obstructions to navigation. The Contractor shall not install any devices, platforms, etc. that reduce horizontal or vertical clearances or obstruct the waterway without prior approval from the USCG.

In addition to any obstruction lighting that may be required by the USCG, all existing navigation lighting, beacons, etc. shall be maintained at all times for the period of time the Contractor is mobilized at for each site.

USCG Emergency Contact Information:

Name: David Orzechowski
 Address: 1222 Spruce Street, Room 2.102D, St. Louis, MO 63103-2832
 Phone: (314) 269-2382
 Email: david.a.orzechowski@uscg.mil

REMOVAL OF EXISTING PIER PROTECTION CELL:

Contractor will be required to remove all components of existing pier protection cell to the satisfaction of the Engineer and in accordance with Job Special Provision "Removal and Disposal of Pier Protection (Waterway)". Remove riprap as required to not interfere with driving of new sheet pile. All removed materials shall become property of the Contractor and shall be disposed of beyond the limits of the right of way. All materials, equipment, labor, and incidentals necessary to complete the work shall be included in the "Removal and Disposal of Pier Protection (Waterway)" pay item.

RIPRAP:

Riprap to be used to fill pier protection cells shall be as per the Dumped Riprap Special Provision. Contractor shall submit a Riprap Gradation Certification to the Engineer for review and approval. Riprap shall be placed in all pier protection cells called out in the plans until stone is flush with the top of each cell. All materials, equipment, labor, and incidentals necessary to place riprap shall be included in the "Dumped Riprap" pay item.

INDEX OF SHEETS

SHEET NO.	TITLE	BRIDGE NO.	DRAWING NO.	DATE
1	TITLE SHEET			
2	GENERAL NOTES, INDEX OF SHEETS & GOVERNING SPECIFICATIONS	02768 A1210 05050	61438	
3	SCHEDULE OF BRIDGE QUANTITIES	02768 A1210 05050	61439	
4	SUMMARY OF QUANTITIES & REVISIONS	02768 A1210 05050	61440	
5	I-30 BRIDGE GENERAL PLAN (SITE 1)	02768	61441	
6	I-30 BRIDGE CELL REPLACEMENT DETAILS	02768	61442	
7	NAVIGATIONAL LIGHTING DETAILS	02768	61443	
8	OZARK BRIDGE GENERAL PLAN (SITE 2)	A1210	61444	
9	MORRILTON BRIDGE GENERAL PLAN (SITE 3)	05050	61445	

GOVERNING SPECIFICATIONS
 ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS
 FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING
 SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS.

NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT-EQUAL EMPLOYMENT OPPORTUNITY-NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT-SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT-EQUAL EMPLOYMENT OPPORTUNITY-GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT-EQUAL EMPLOYMENT OPPORTUNITY-FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT-POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT-WAGE RATE DETERMINATION
100-3	CONTRACTOR'S LICENSE
100-4	DEPARTMENT NAME CHANGE
102-2	ISSUANCE OF PROPOSALS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
306-1	QUALITY CONTROL AND ACCEPTANCE
800-1	STRUCTURES
807-2	STEEL STRUCTURES
JOB 012357	BIDDING REQUIREMENTS AND CONDITIONS
JOB 012357	BRIDGE WORK IN NAVIGABLE WATERS
JOB 012357	CARGO PREFERENCE ACT REQUIREMENTS
JOB 012357	CONSTRUCTION IN SPECIAL FLOOD HAZARD AREAS
JOB 012357	DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES
JOB 012357	DUMPED RIPRAP
JOB 012357	MANDATORY ELECTRONIC CONTRACT
JOB 012357	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 012357	NAVIGATION LIGHTING SYSTEM
JOB 012357	REMOVAL AND DISPOSAL OF PIER PROTECTION (WATERWAY)
JOB 012357	REQUIREMENTS OF U.S. COAST GUARD
JOB 012357	VALUE ENGINEERING
JOB 012357	ZEBRA MUSCLE CONTAINMENT

**GENERAL NOTES, INDEX OF SHEETS,
 AND GOVERNING SPECIFICATIONS**

ROUTES: I-30, SH-9, & SH-23

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: BAG DATE: 1/24/20 FILENAME: Notes_Quantities
 CHECKED BY: TDB DATE: 1/24/20 SCALE: NA
 DESIGNED BY: TDB DATE: 1/24/20
 BRIDGE NO. 02768, A1210, & 05050 DRAWING NO. 61438



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
04-16-2020				6	ARK.			
						012357	3	9

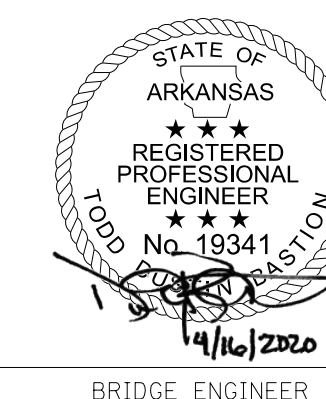
① SCHEDULE OF QUANTITIES 61439

02768, A1210, & 05050

SCHEDULE OF BRIDGE QUANTITIES - JOB NO. 012357

BRIDGE NO.	SITE	ITEM NO.	SP & 202	SS & 807	811	SP & 816	SP JOB 012357	
		ITEM	REMOVAL AND DISPOSAL OF PIER PROTECTION (WATERWAY)	STRUCTURAL STEEL IN BEAM SPANS (A709, GR.36)	SHEET PILES (PS31)	DUMPED RIPRAP	NAVIGATION LIGHTING SYSTEM	
		UNIT	EACH	POUND	LIN. FT.	CU. YD.	LUMP SUM	
02768	SITE 1 (I-30 BRIDGE)		1	10,065	5,137	3,139	1.00	
A1210	SITE 2 (OZARK BRIDGE)					643		
05050	SITE 3 (MORRILTON BRIDGE)					744		
TOTAL FOR JOB NO. 012357			1	10,065	5,137	4,526	1.00	

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 REVISED DATE:



BRIDGE ENGINEER

SCHEDULE OF BRIDGE QUANTITIES
 ROUTES: I-30, SH-9, & SH-23
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DRAWN BY: BAG DATE: 1/24/20 FILENAME: Notes.Quantities
 CHECKED BY: TDB DATE: 1/24/20 SCALE: NA
 DESIGNED BY: TDB DATE: 1/24/20
 BRIDGE NO. 02768, A1210, & 05050 DRAWING NO. 61439

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
04-16-2020				6	ARK.			
						JOB NO. 012357	4	9

① SUMMARY OF QUANTITIES & REVISIONS 61440
02768, A1210, & 05050

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP & 202	REMOVAL AND DISPOSAL OF PIER PROTECTION (WATERWAY)	1	EACH
601	MOBILIZATION	1.00	LUMP SUM
SS & 807	STRUCTURAL STEEL IN BEAM SPANS (A709, GR.36)	10,065	POUND
811	SHEET PILES (PS31)	5,137	LIN. FT.
SP & 816	DUMPED RIPRAP	4,526	CU. YD.
SP	NAVIGATION LIGHTING SYSTEM	1.00	LUMP SUM

REVISIONS

DATE	REVISION	SHEET NUMBER
04-16-20	REVISED FAP NUMBER. REMOVED "DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES" AND "GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION" SPECIAL PROVISIONS. ADDED "DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES" SPECIAL PROVISION.	1, 2, 3, 4, 5, 6, 7, 8, & 9

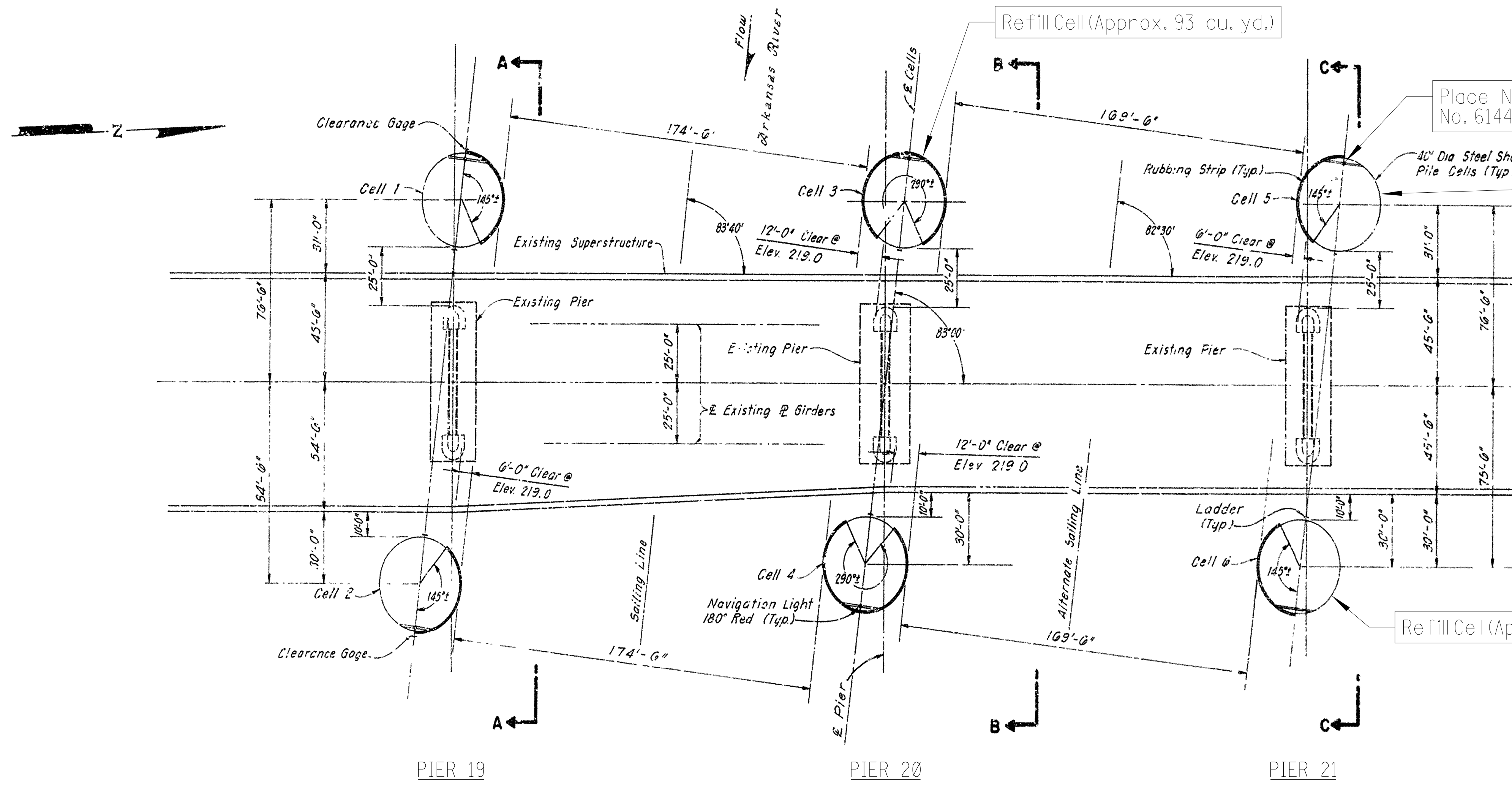
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 REVISED DATE:



SUMMARY OF QUANTITIES AND REVISIONS
 ROUTES: I-30, SH-9, & SH-23
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
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 CHECKED BY: TDB DATE: 1/24/20 SCALE: NA
 DESIGNED BY: TDB DATE: 1/24/20
 BRIDGE NO. 02768, A1210, & 05050 DRAWING NO. 61440

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
04-16-2020				6	ARK.			
				JOB NO.		012357	5	9

① 02768 I-30 BRIDGE PLAN (SITE 1) 61441



Place Navigation Light. See Dwg. No. 61443 for additional details.

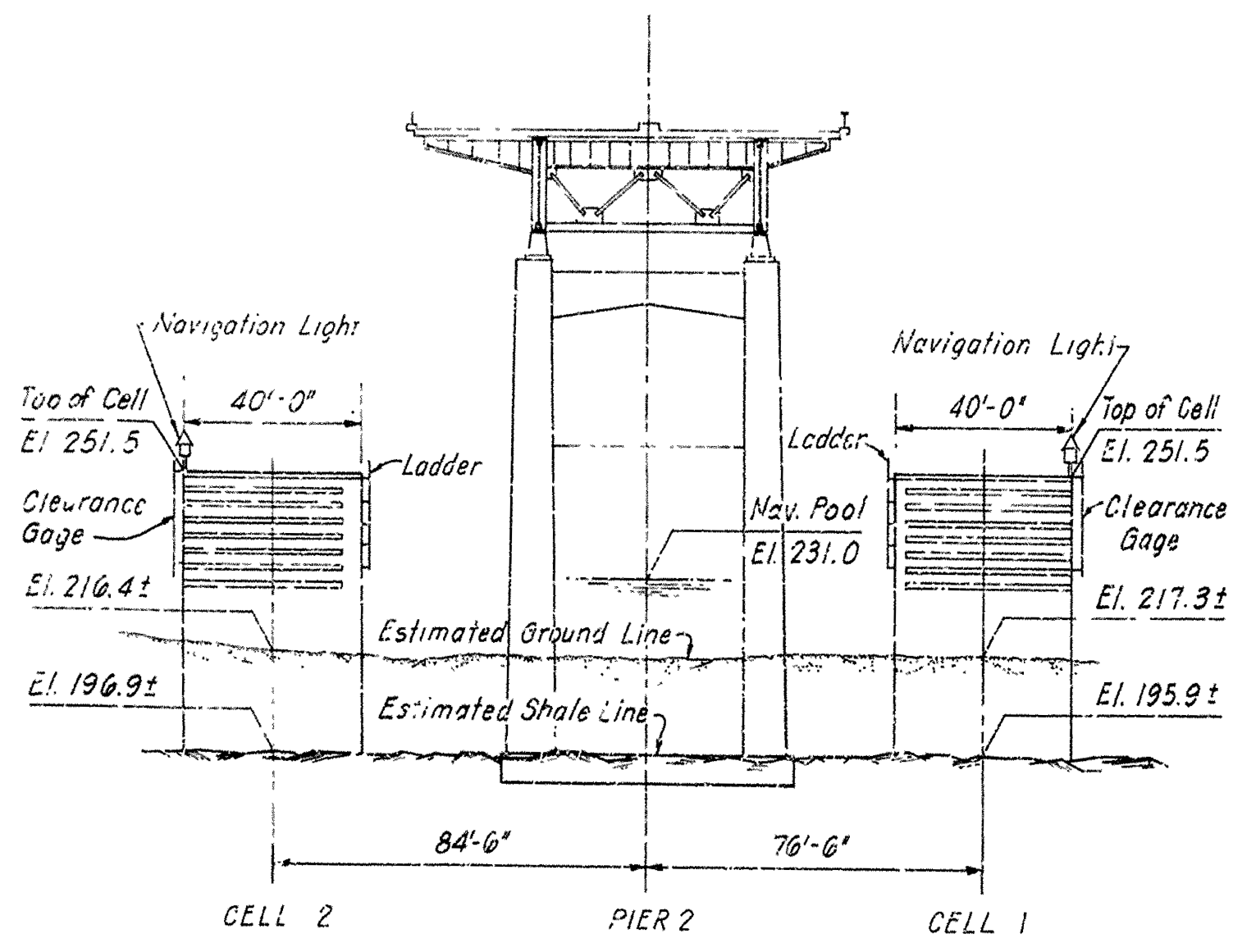
Remove & Replace Cell (Approx. 2,860 cu. yd. Riprap)

Refill Cell (Approx. 186 cu. yd.)

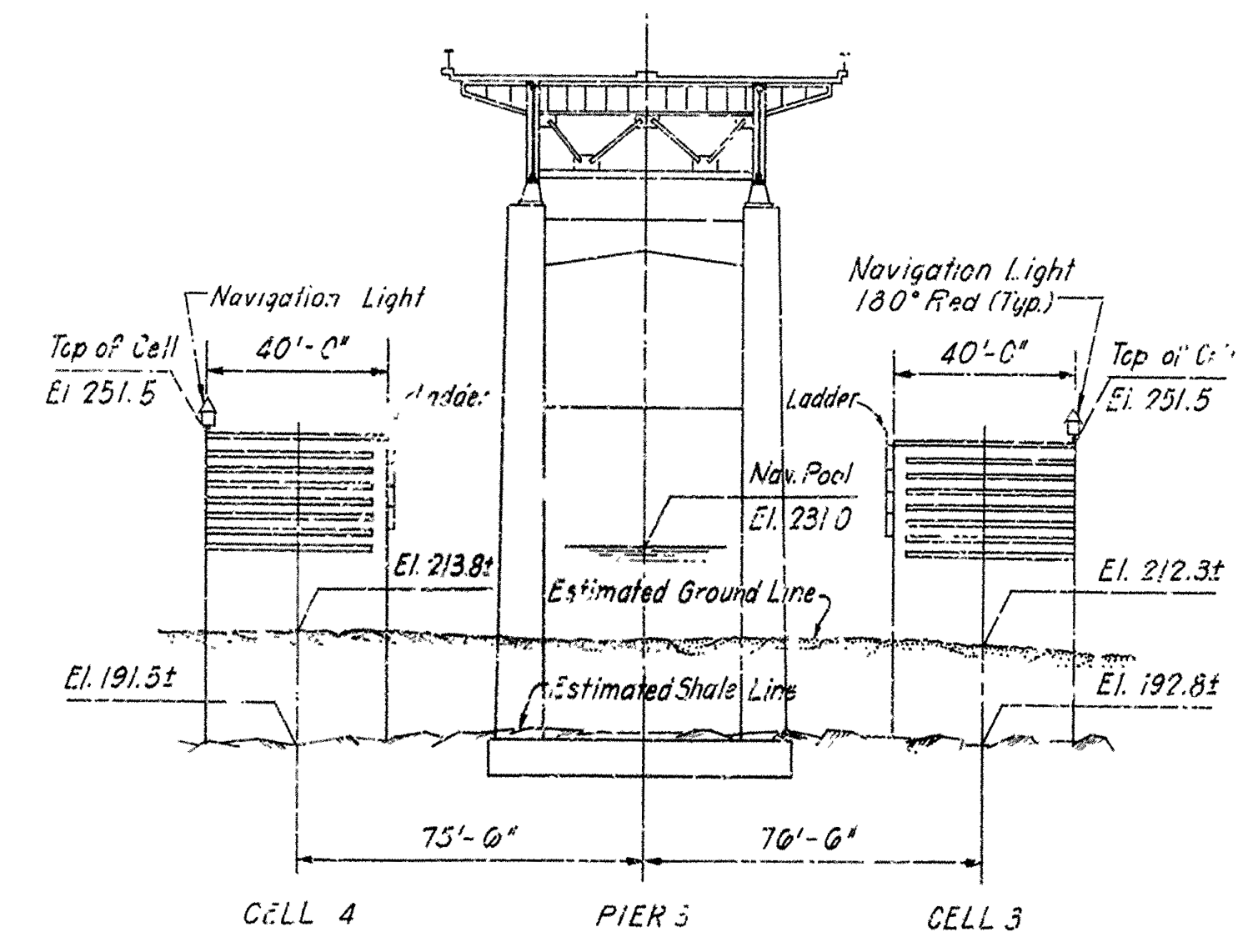
Notes:
Plan view, profile view and other information of structure are a photo copy of the original drawings. Additional information is added for scope clarity.
For Pier Protection Cell Replacement Details, see sheet Dwg. No. 61442.

Piers 19, 20, & 21 in the Plan View are synonymous with Piers 2, 3, & 4 in "Section A-A" thru "Section C-C", respectively.

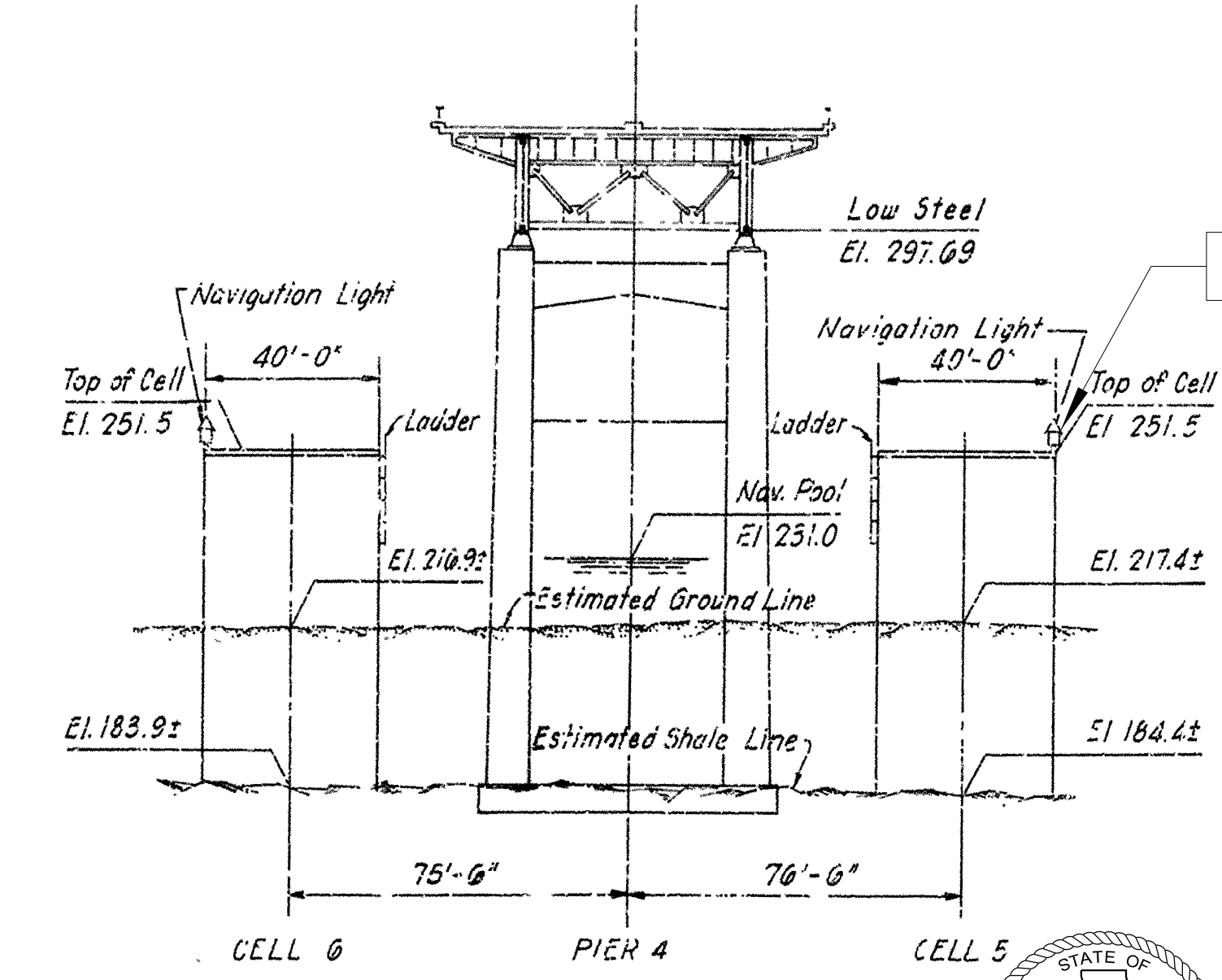
SITE 1 - I-30 BRIDGE PLAN VIEW



SECTION A-A



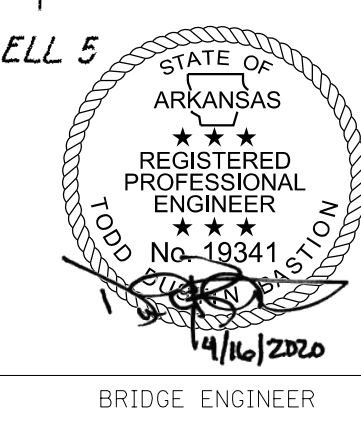
SECTION B-B



SECTION C-C

Place Navigation Light

I-30 BRIDGE GENERAL PLAN (SITE 1)
ROUTE: I-30
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

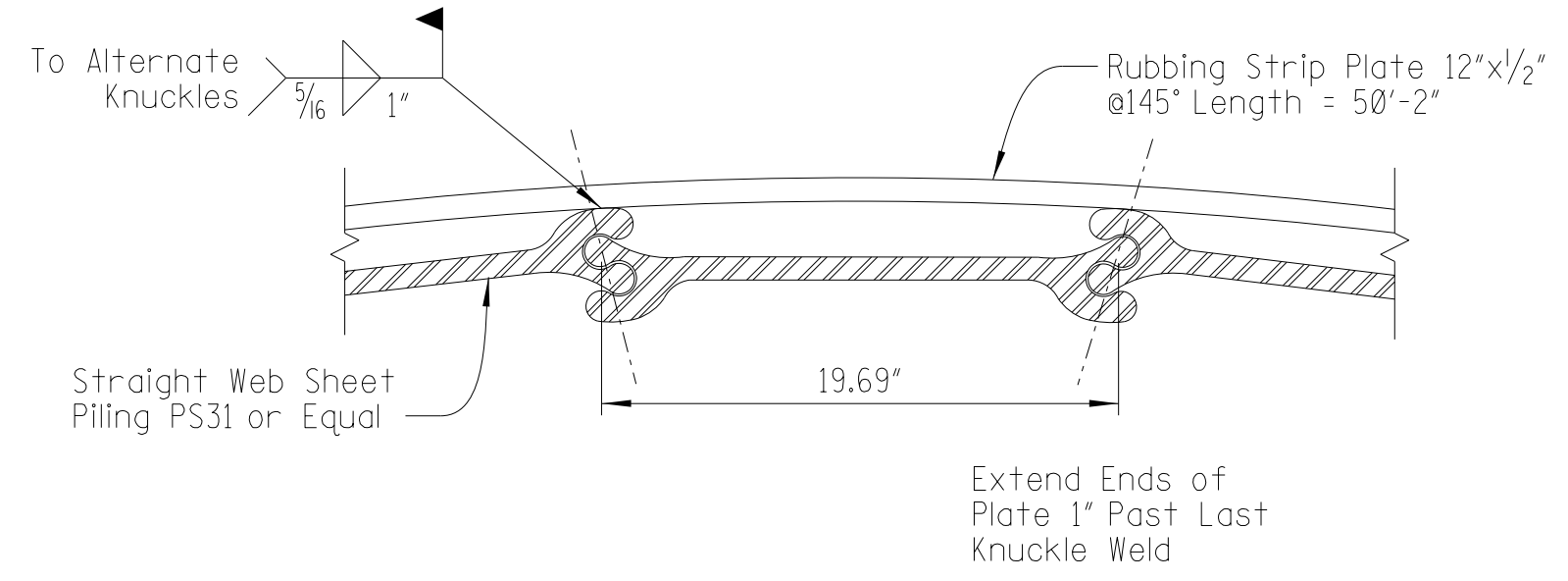
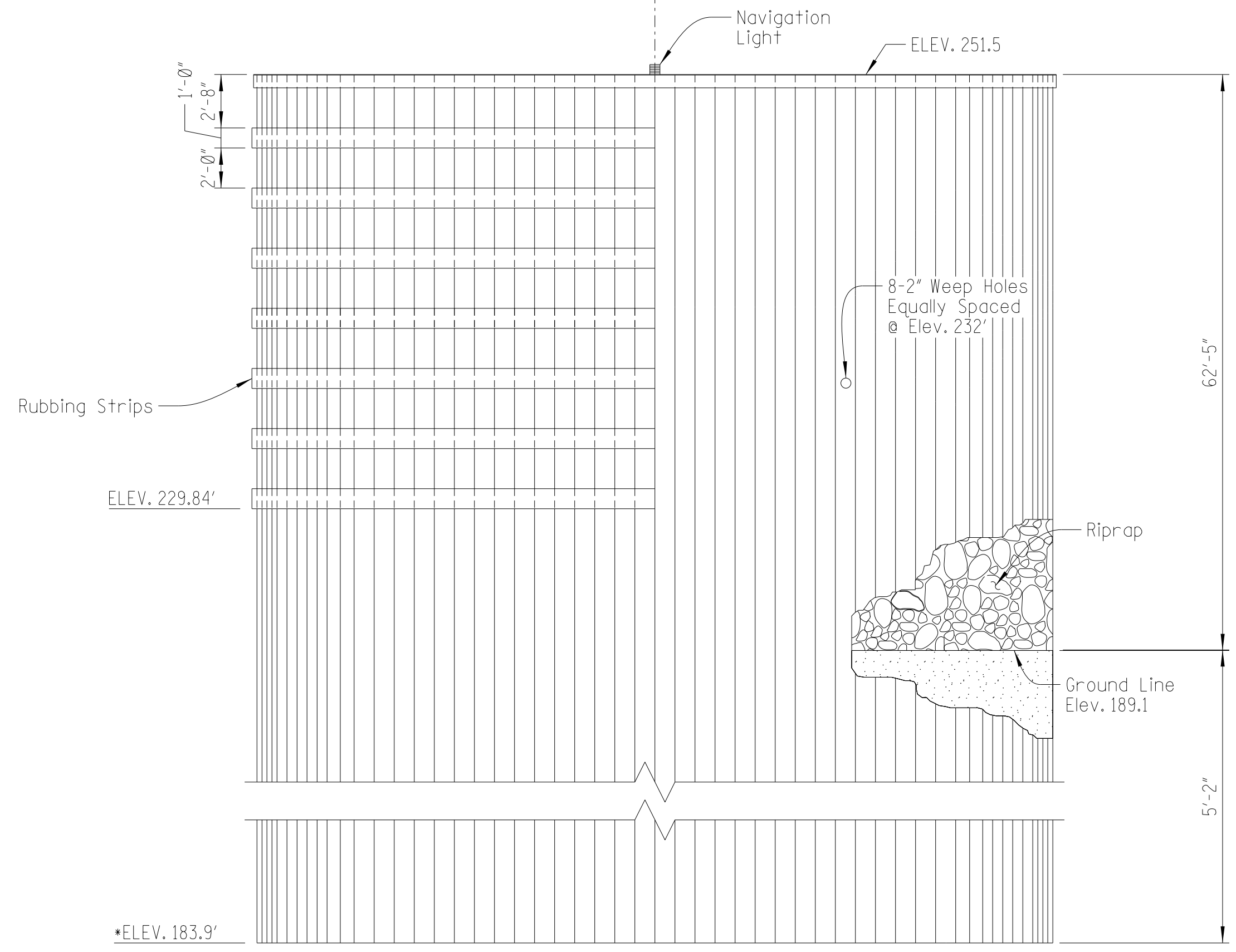
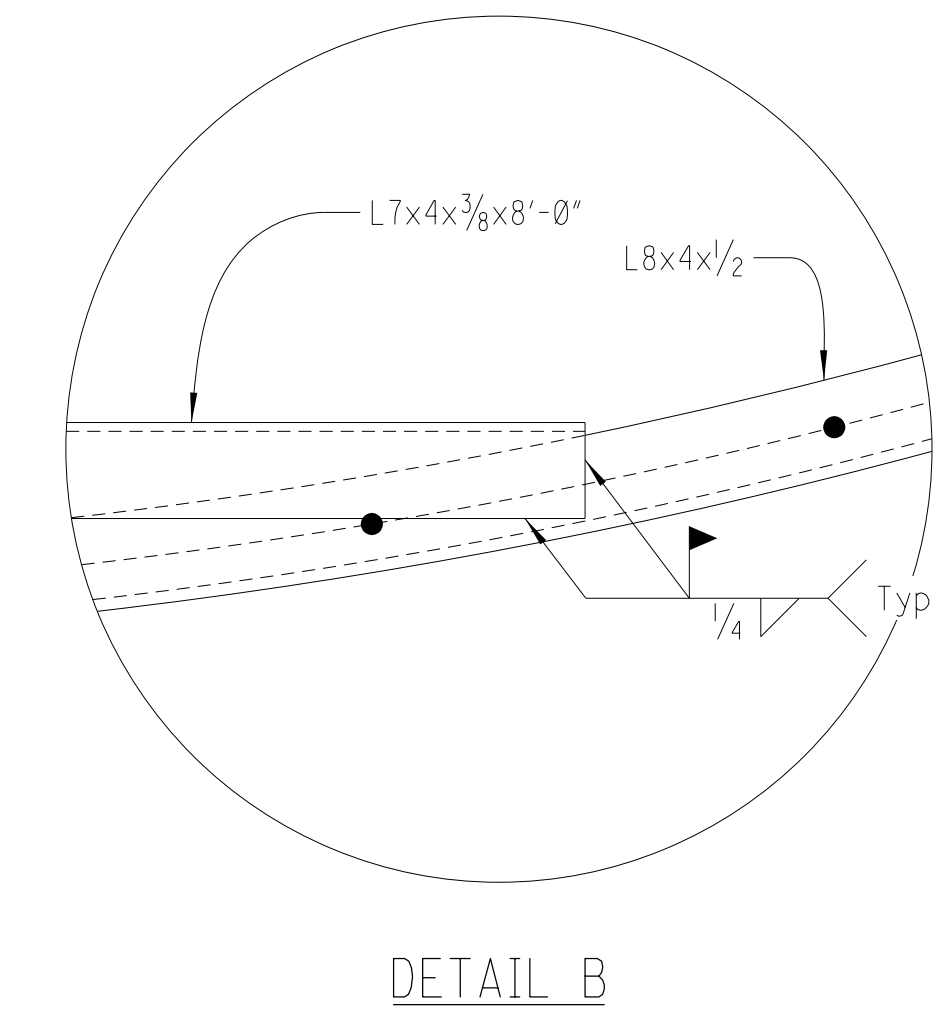
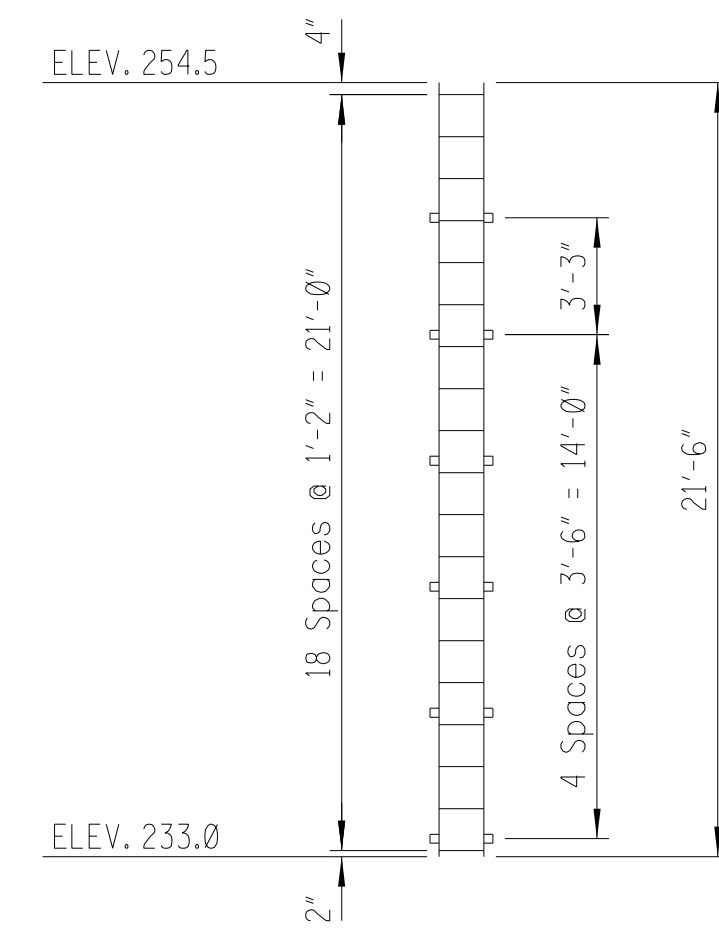
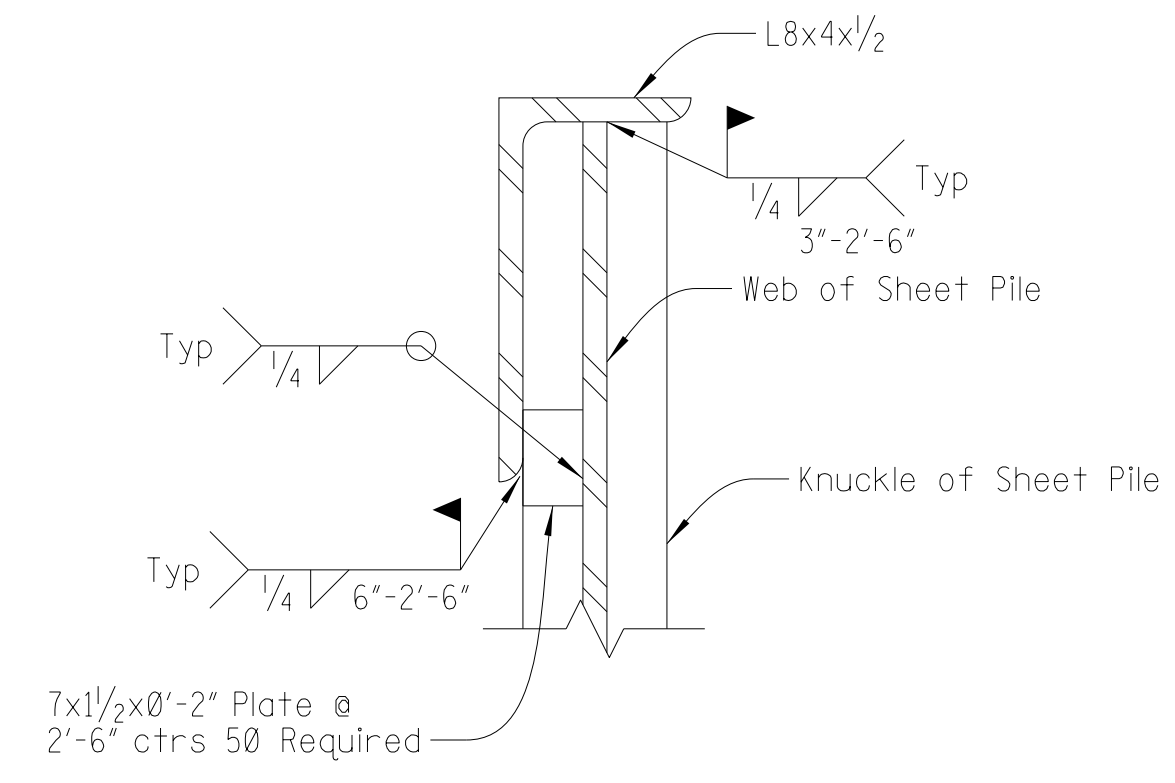
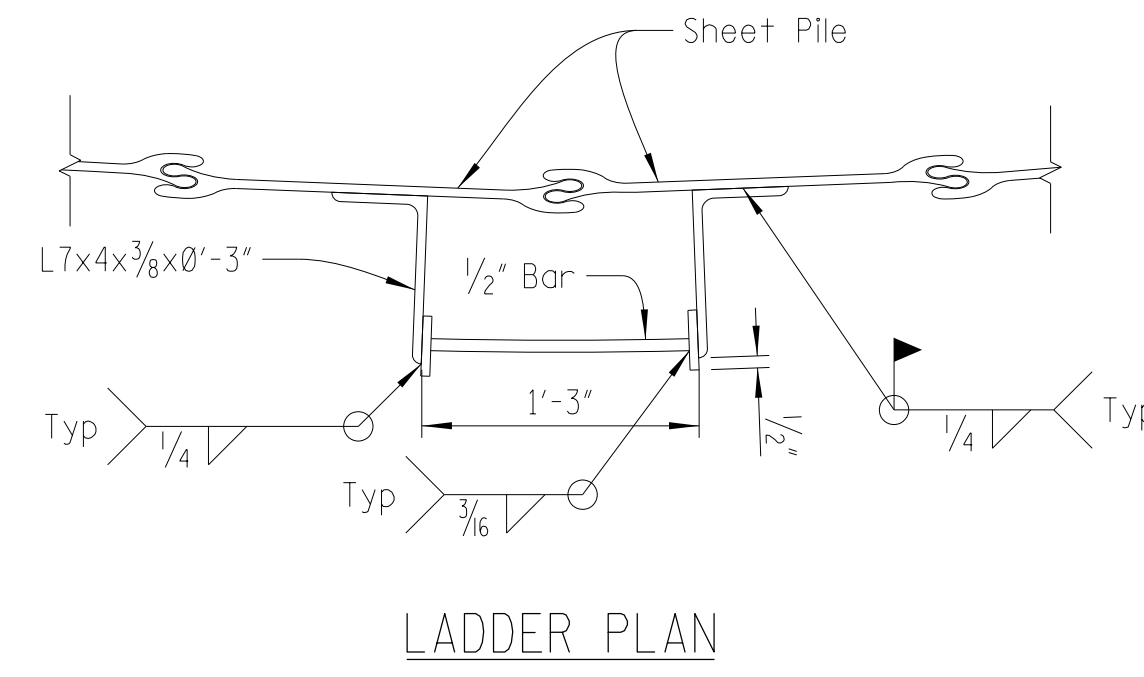
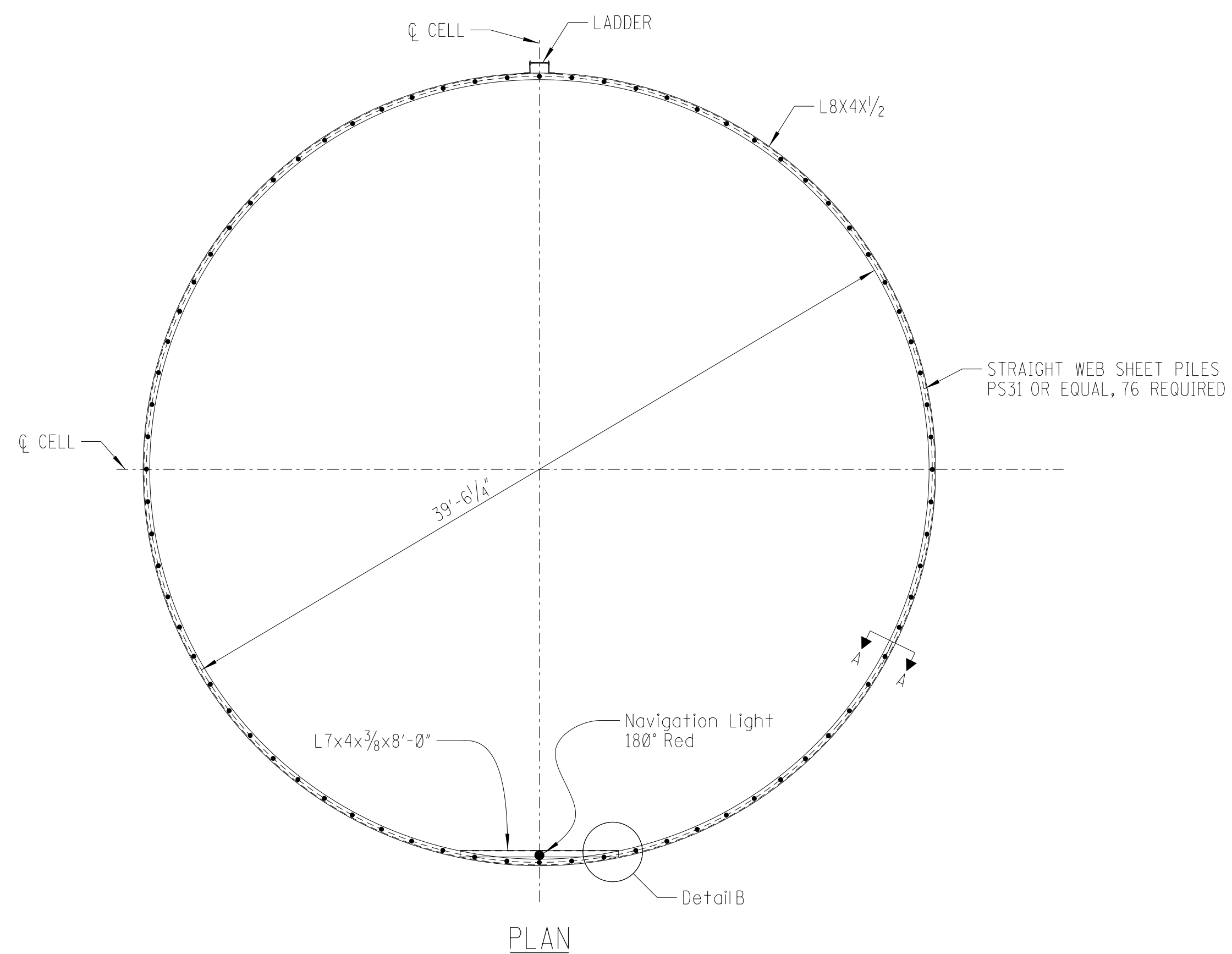


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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
04-16-2020				6	ARK.			
				JOB NO.		012357	6	9

02768 I-30 CELL REPLACEMENT DETAILS 61442



- SUGGESTED SEQUENCE OF WORK - New Pier Protection Cell
1. Remove existing pier protection cell
 2. Drive new sheet piles into final configuration
 3. Partially fill protection cell with riprap for stability
 4. Install steel angles, ladder, and rubbing strips
 5. Completely fill protection cell with riprap
 6. Place new cell-mounted navigation light

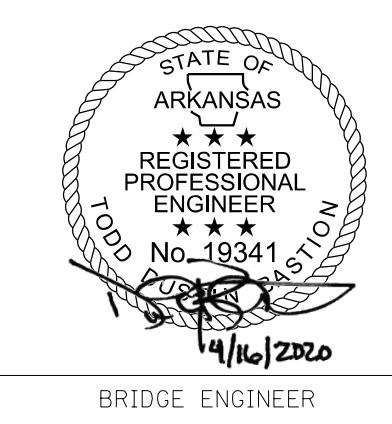
Notes:

Drawings show general features of design only. Shop drawings showing details shall be prepared in accordance with specifications, submitted and approved secured before fabrication is begun.

Straight Web Sheet Piles and all related work including all materials, equipment, labor, and incidentals shall be paid for under the "Sheet Pile (PS31)" pay item, per linear foot of sheet pile.

All Structural Steel and all related work including materials, equipment, labor, and incidentals shall be paid for under the "Structural Steel in Beam Spans (A709, GR.36)" pay item, per pound.

Riprap and all related work including all materials, equipment, labor, and incidentals shall be paid for under the "Dumped Riprap" pay item, per cubic yard.



I-30 BRIDGE CELL REPLACEMENT DETAILS
 ROUTE: I-30
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

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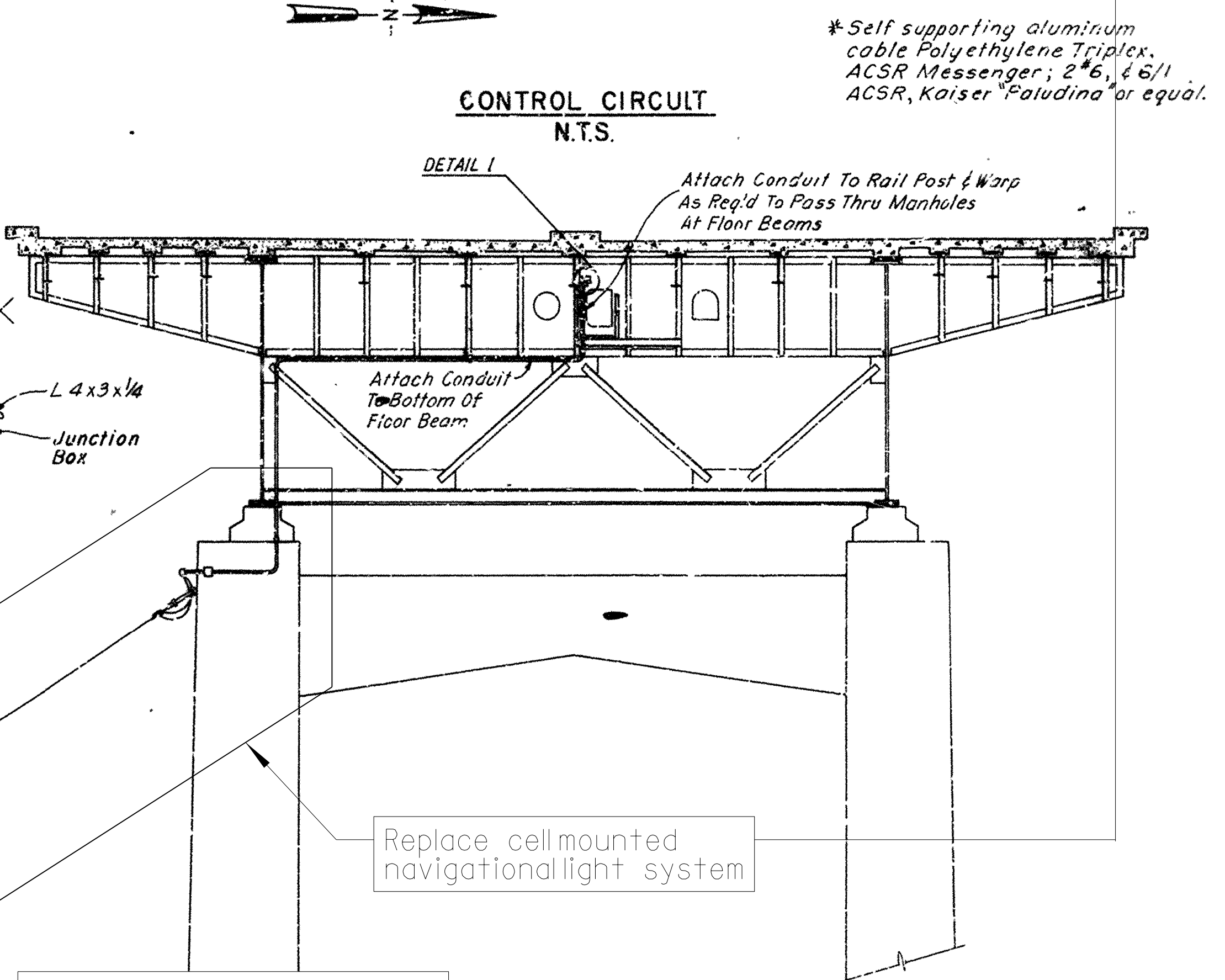
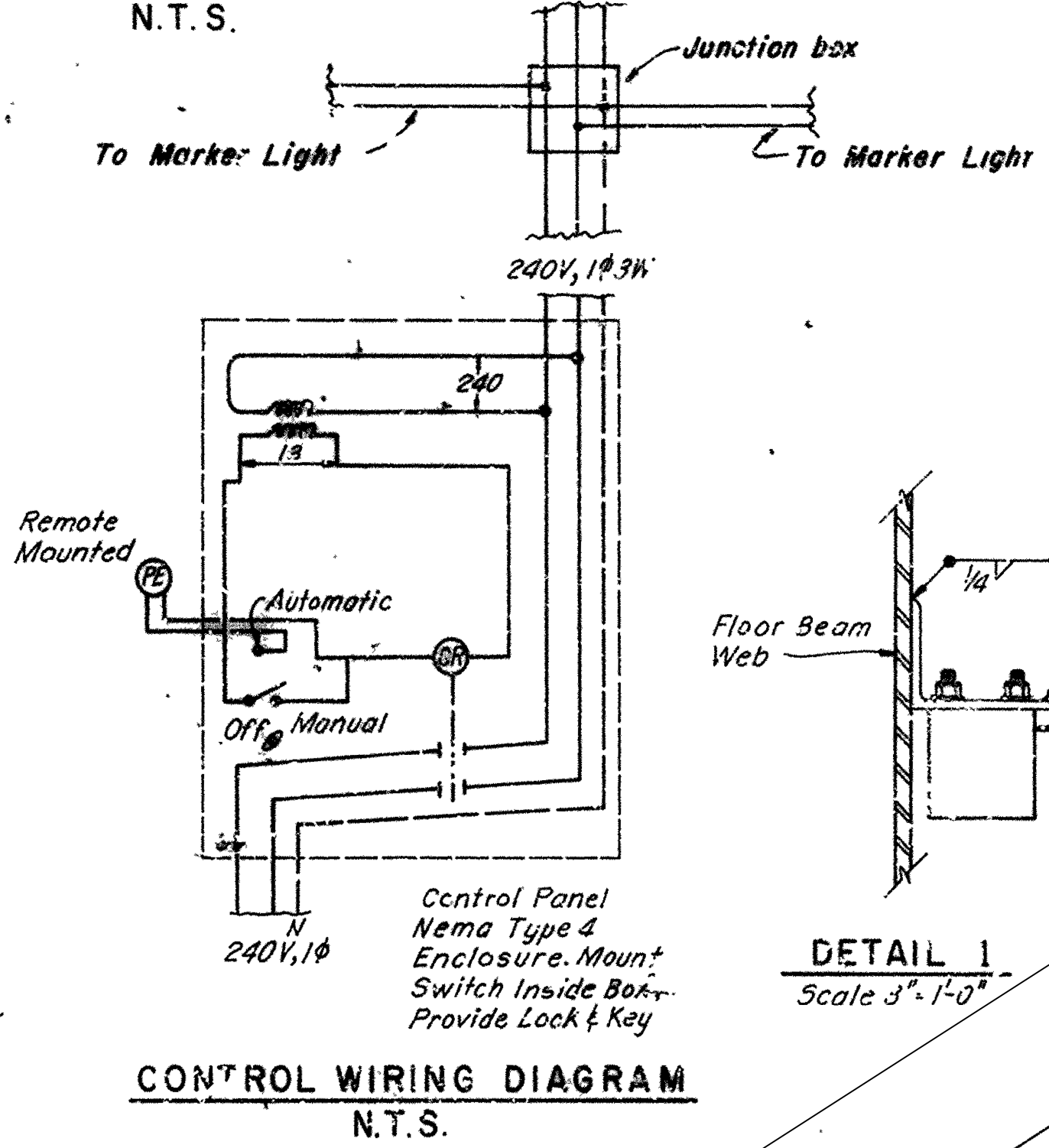
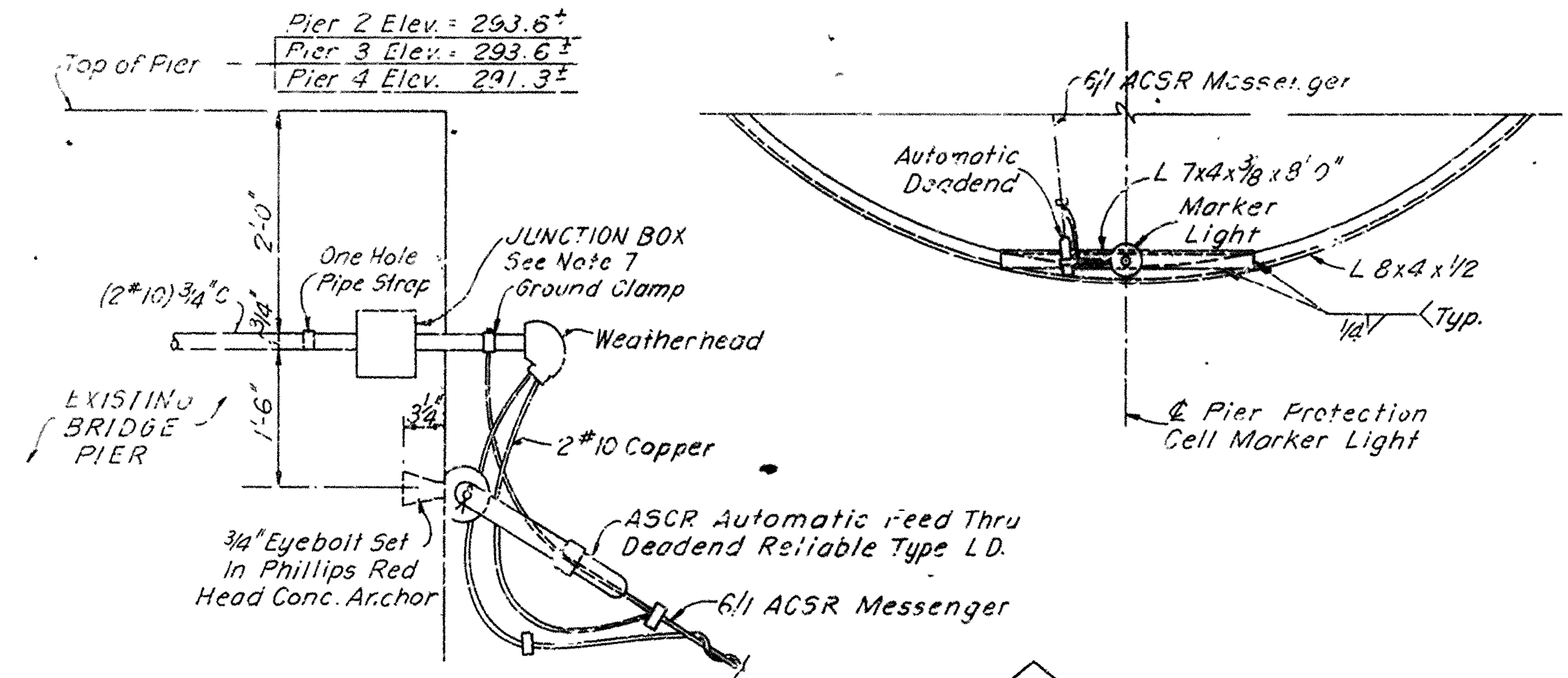
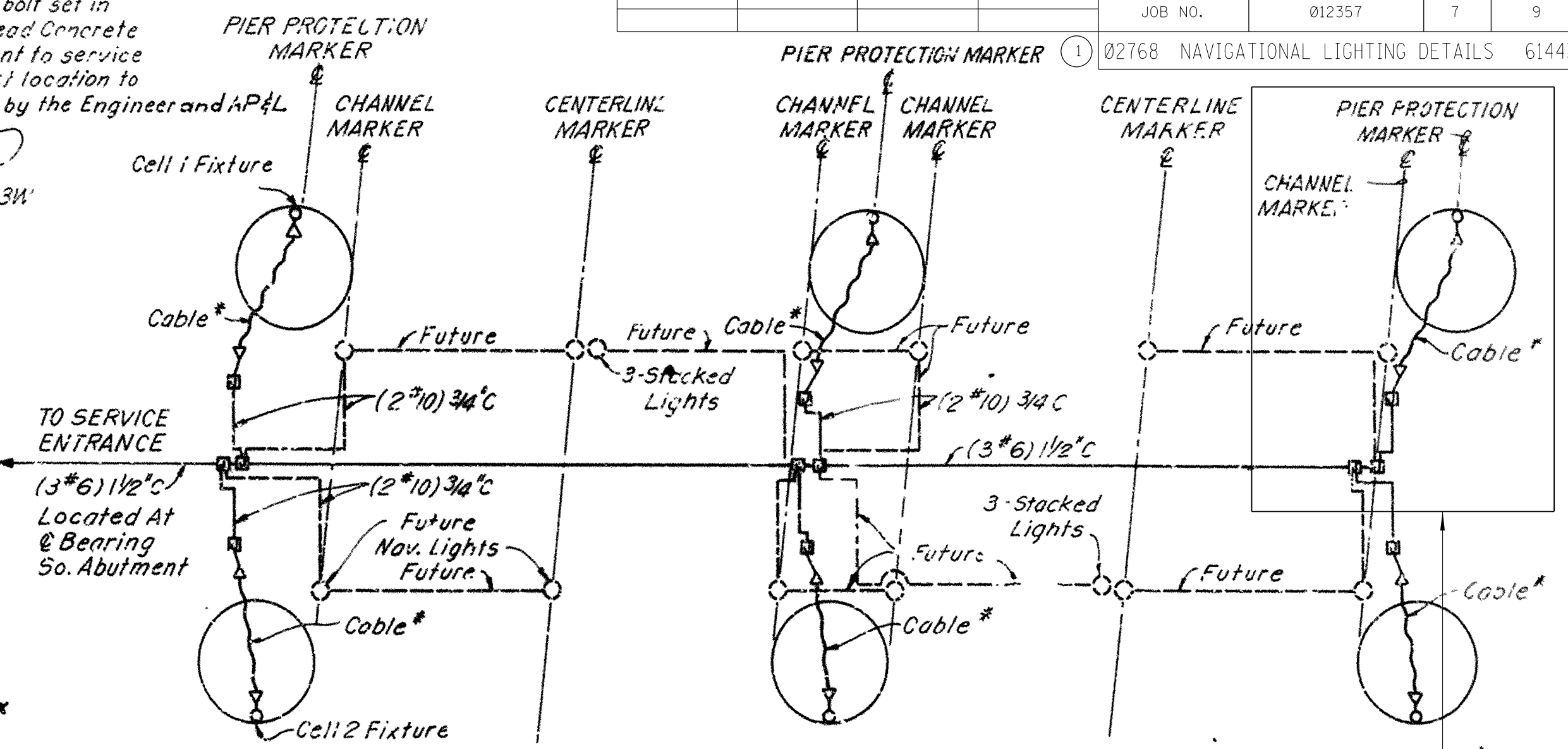
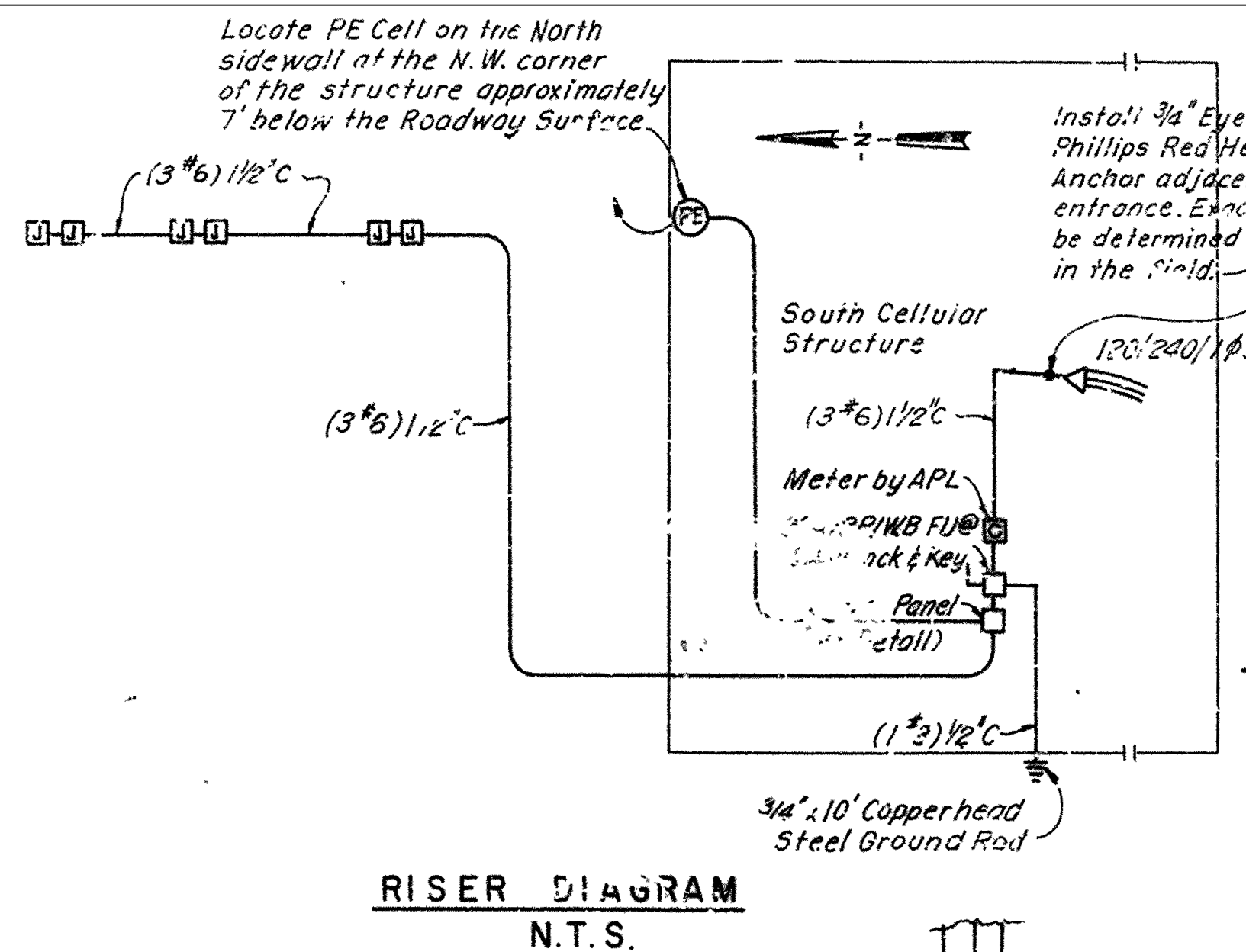
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 REVISION DATE:

*Elevation notes assumed top of shale elevation. Sheet piles shall be driven to refusal.

ELEVATION
 PIER PROTECTION CELL

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
04-16-2020				6	ARK.		7	9

Notes:
 Drawings show general features of design only. Shop drawings showing details shall be prepared in accordance with specifications, submitted and approval secured before fabrication is begun.
 Navigation Lighting and all related work including all materials, equipment, labor, and incidentals shall be paid for under the "Navigation Lighting System" pay item, per Lump Sum.

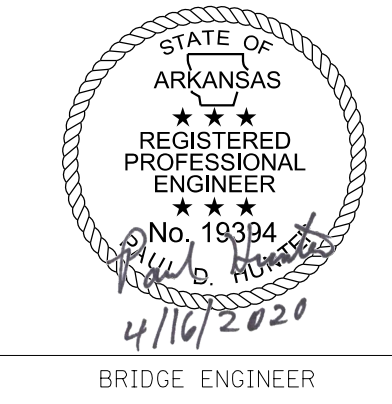


GENERAL NOTES

1. FIXTURE #1 - Pier Protection Marker 180° Red... B & B Electromatic Corp. MS 53 PM DL KI AR 150 w/1x... service lamp and automatic changer, or equal. A = 2'-0"
2. TRANSFORMER - 240/13v mount in control panel. Size for P.E. cell & control relay
3. Ground Wire installed Throughout System, on All Fixtures, Transformers And Housings, Conduits, Support's, etc.
4. Provide Copper Conductor, 600V Rubber Or Polyethylene Insulation. Service Drop To Light Fixtures From Bridge To Be Aluminum. Provide Approved Connectors For Aluminum To Copper Connectors.
5. Coordinate Main Service Connection With Arkansas Power And Light. Verify Location Of Service Entrance And Method Of Connection.
6. PE Cell To Be Wallace-Tiernan Sun Switch, 12V, or equal.
7. Provide ESNA Connectors For Junction Box Connections.
8. Installation Shall Conform To The Requirements Of The National Electrical Code.
9. Provide junction boxes or pull boxes as required to suit the project conditions and conformity with the National Electrical Code.

Provide and install pier mounted navigation light. Heavy duty, long service life housing. Lens shall be tempered Fresnel glass, 180 degree red pointing up or down. Lamp shall be LED, dual lamp. Fixture shall be per Coast Guard requirements. Provide B&B Roadway Model PL or equivalent.

Replace cell mounted navigational light system

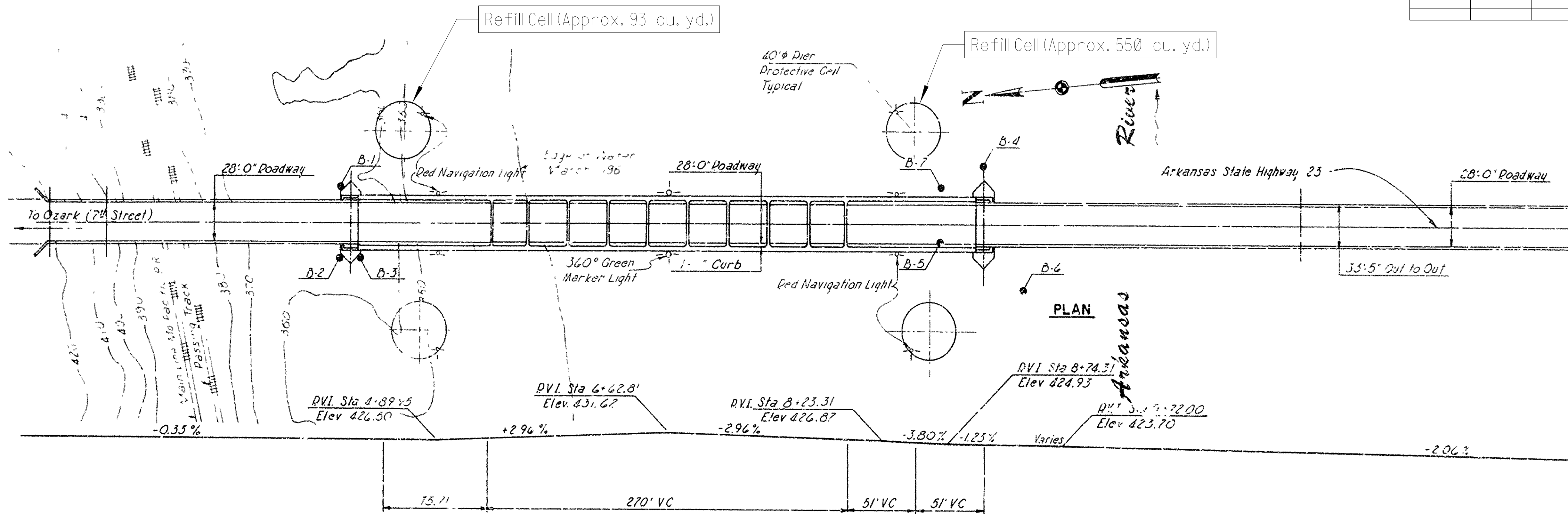


NAVIGATIONAL LIGHTING DETAILS
 ROUTE: I-30
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
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 BRIDGE NO. 02768 DRAWING NO. 61443

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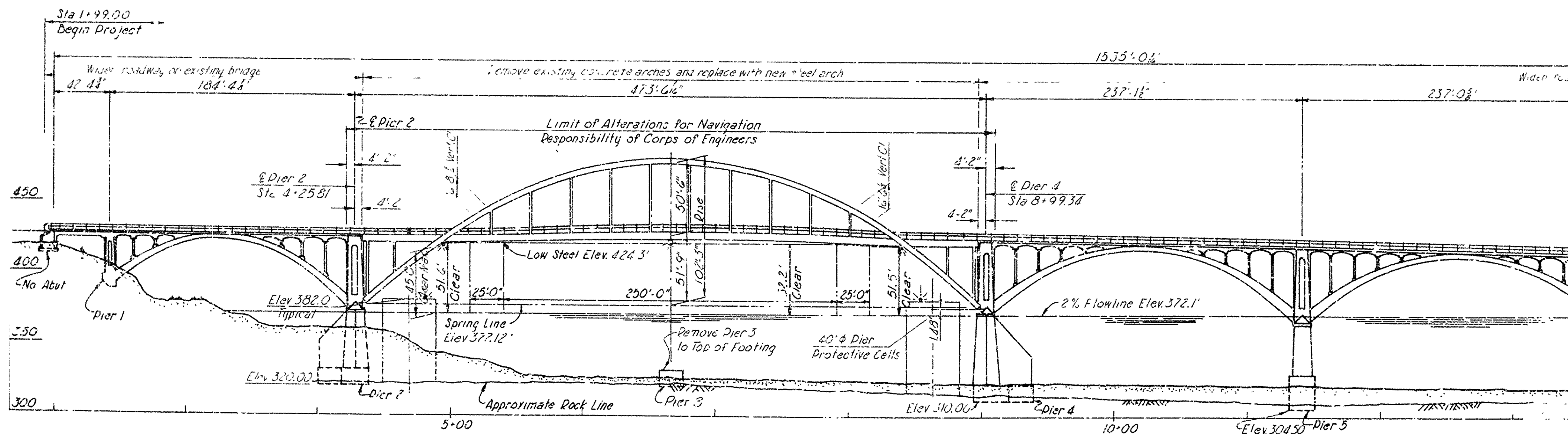
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04-16-2020				6	ARK.			
				JOB NO.		012357	8	9

① A1210 OZARK BRIDGE PLAN (SITE 2) 61444



SITE 2 - OZARK BRIDGE PLAN VIEW

Notes:
Plan view, profile view and other information of structure are a photo copy of the original drawings. Additional information is added for scope clarity.



SITE 2 - OZARK BRIDGE PROFILE VIEW



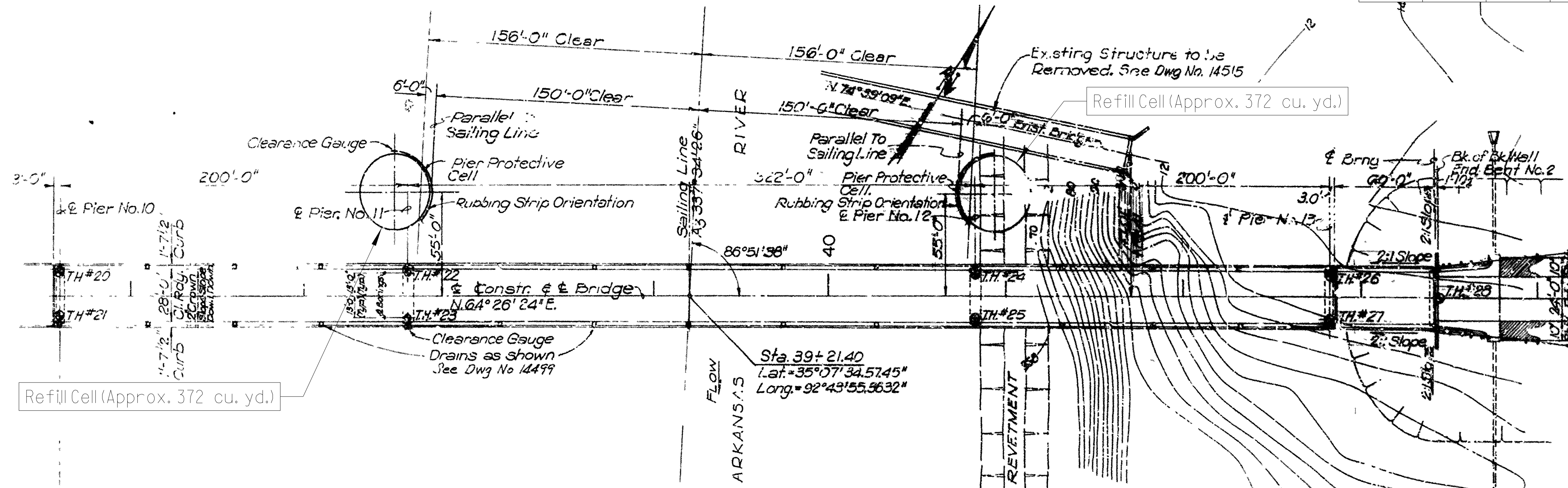
OZARK BRIDGE GENERAL PLAN (SITE 2)
ROUTE: SH-23
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: BAG DATE: 1/24/20 FILENAME: Cell_Repair_Sheet.s
CHECKED BY: TDB DATE: 1/24/20 SCALE: N.T.S.
DESIGNED BY: TDB DATE: 1/24/20
BRIDGE NO. A1210 DRAWING NO. 61444

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 REVISED DATE:

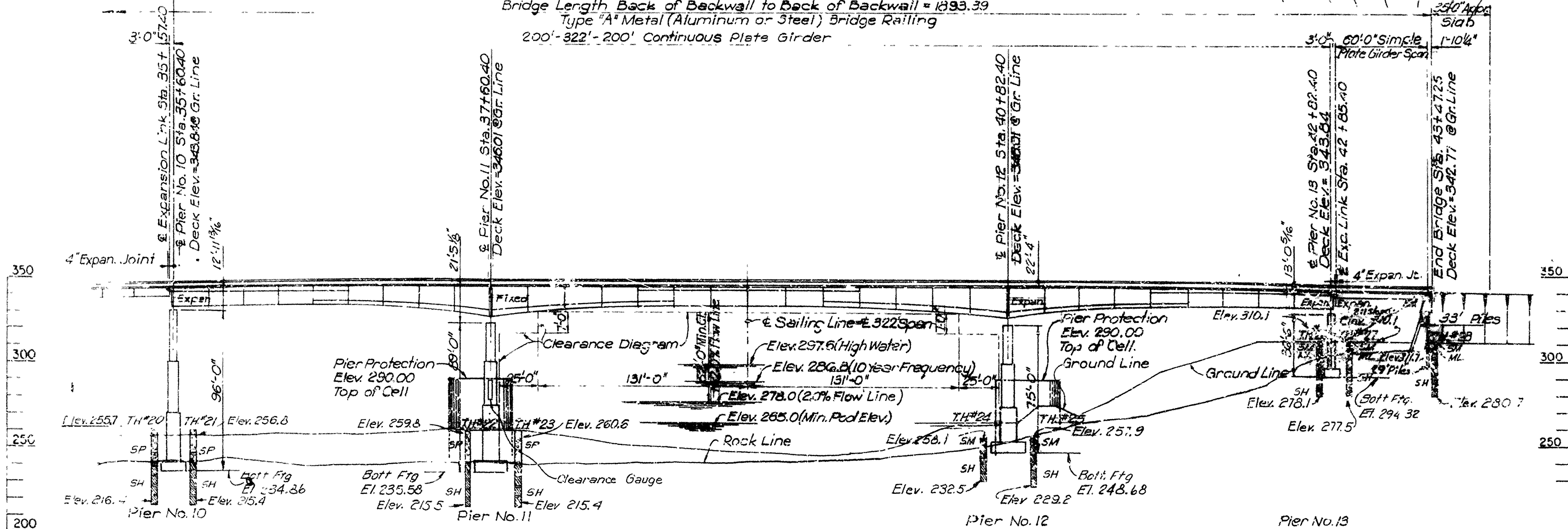
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
04-16-2020				6	ARK.			
						012357	9	9

05050 MORRILTON BRIDGE PLAN (SITE 3) 61445



SITE 3 - MORRILTON BRIDGE PLAN VIEW

Bridge Length Back of Backwall to Back of Backwall = 1893.39
 Type "A" Metal (Aluminum or Steel) Bridge Railing
 200'-322'-200' Continuous Plate Girder



SITE 3 - MORRILTON BRIDGE PROFILE VIEW

Notes:
 Plan view, profile view and other information of structure are a photo copy of the original drawings. Additional information is added for scope clarity.



MORRILTON BRIDGE GENERAL PLAN (SITE 3)
 ROUTE: SH-9
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DRAWN BY: BAG DATE: 1/24/20 FILENAME: Cell_Repair_Sheet.s
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