



## CITY OF ANN ARBOR

# LESLIE PARK AND SYLVAN PARK BRIDGE REPLACEMENTS



PROJECT LOCATION MAP  
NOT TO SCALE

GENERAL SHEETS

G-001	01	COVER SHEET
G-002	02	GENERAL NOTES, LEGEND, AND SYMBOLS
G-003	03	SOIL EROSION CONTROL AND CONSTRUCTION DETAILS

CIVIL SHEETS

C-100	04	LESLIE PARK BRIDGE - EX. COND, DEMO, SESC & CONSTRUCTION PLAN
C-101	05	CONTECH BRIDGE DETAILS - LESLIE PARK BRIDGE
C-102	06	CONTECH BRIDGE DETAILS - LESLIE PARK BRIDGE
C-103	07	LESLIE PARK BRIDGE - ABUTMENT DETAILS
C-104	08	SYLVAN PARK BRIDGE - EX. COND, DEMO, SESC & CONSTRUCTION PLAN
C-105	09	SYLVAN PARK BRIDGE - ABUTMENT DETAILS

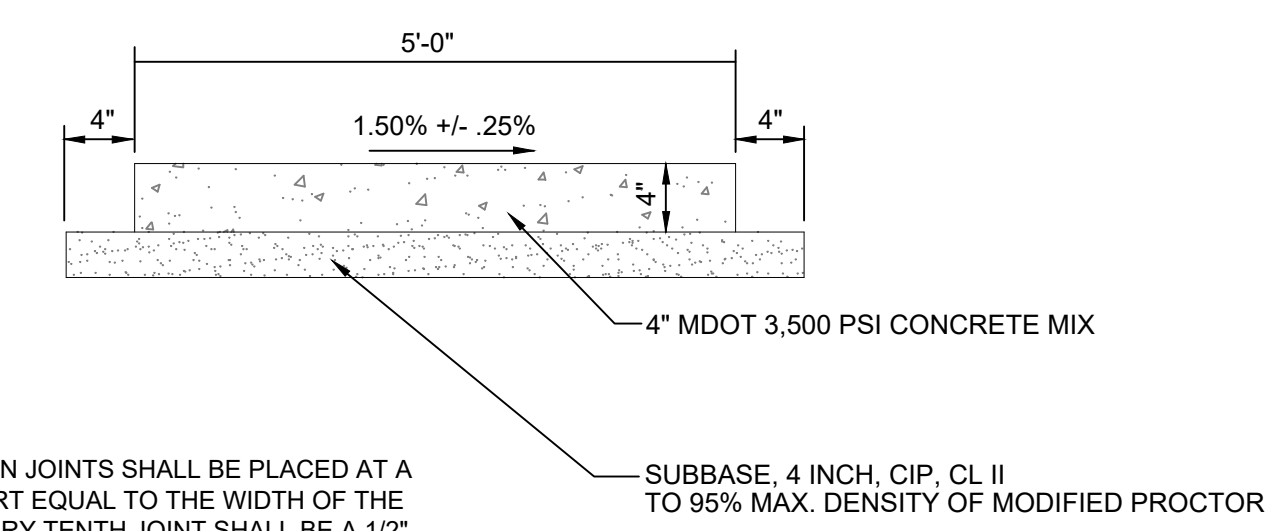
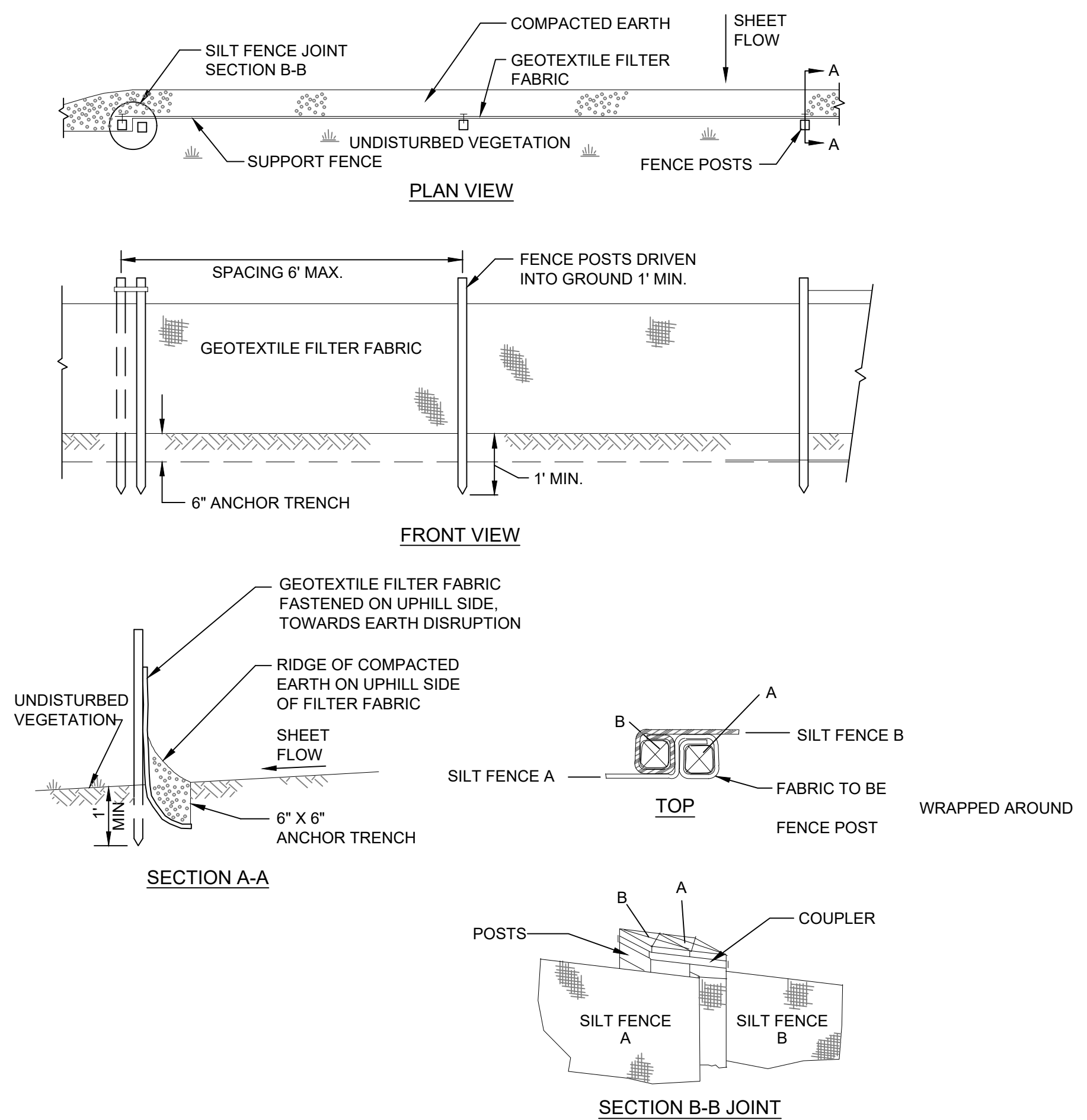
BID SET  
AUGUST, 2024  
PROJECT NUMBER: 2075153906



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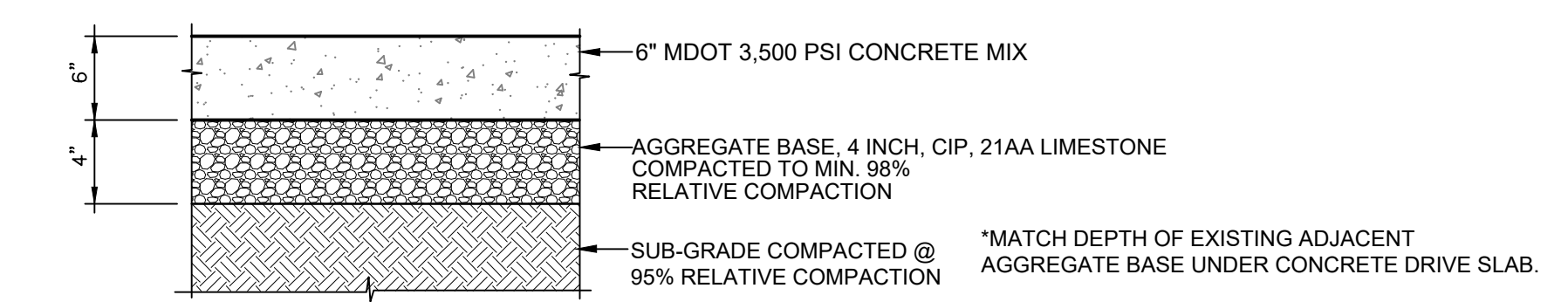
Notes



- NOTES:
- CONTRACTION JOINTS SHALL BE PLACED AT A DISTANCE APART EQUAL TO THE WIDTH OF THE SIDEWALK. EVERY TENTH JOINT SHALL BE A 1/2" EXPANSION JOINT.
  - WHERE SIDEWALK CROSSES A DRIVEWAY WALK SHALL BE THICKENED TO 6" THICK CONCRETE SECTION.
  - SUBBASE SHALL BE INCLUDED WITH THE SIDEWALK PAY ITEM.

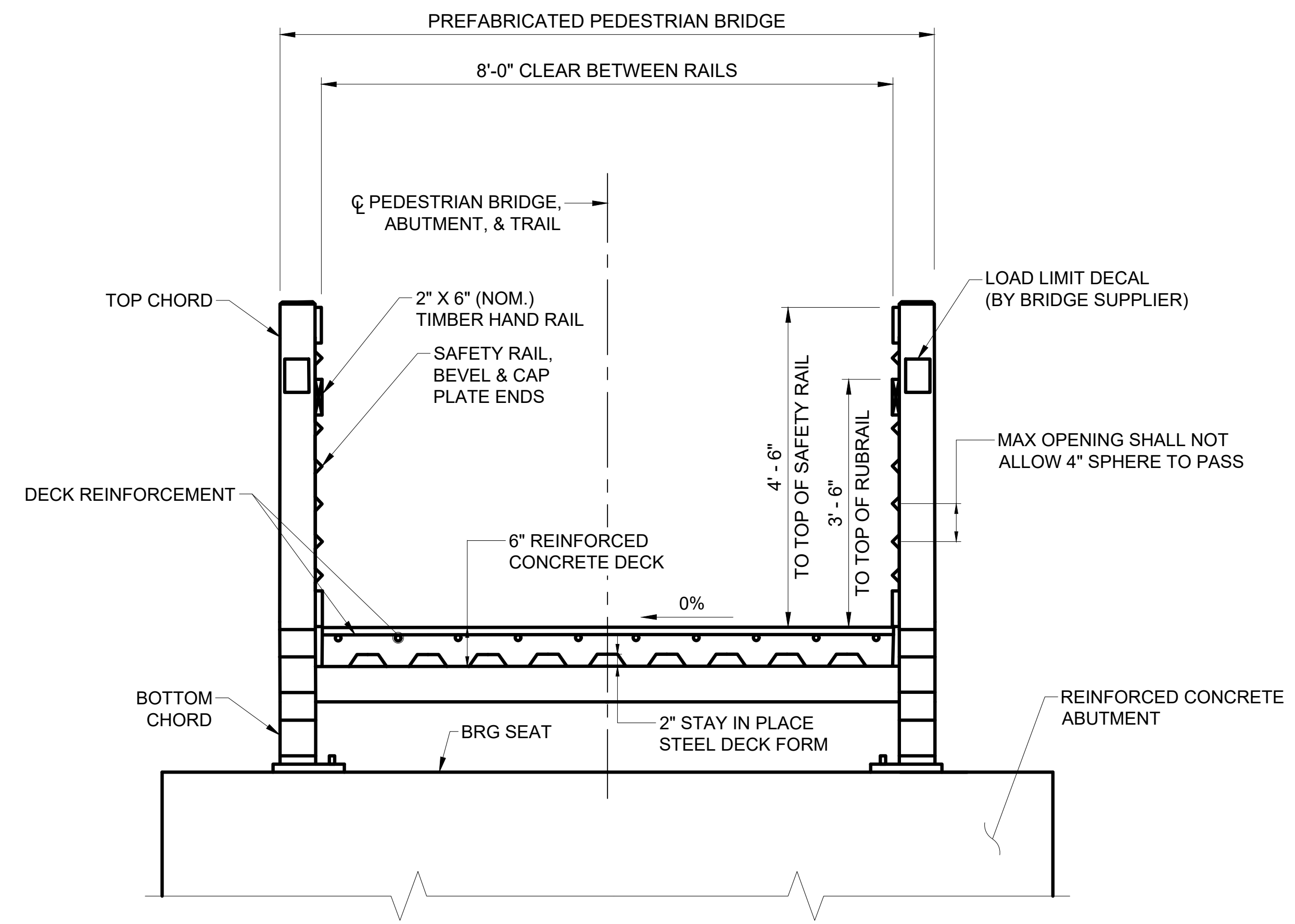
**TYPICAL CONCRETE SIDEWALK SECTION [SYLVAN PARK]**

SCALE: NONE



**6" CONCRETE SIDEWALK [LESLIE PARK]**

SCALE: NONE



**TYPICAL BRIDGE CROSS SECTION DETAIL**

SCALE: NONE

D	BID SET	CW	MP	2024.08.16
C	PERMIT SET	CW	MP	2024.05.15
B	REVIEW SET	CW	MP	2024.03.15
A	PRELIMINARY PLANS	CW	MP	2023.11.10
Issued				By Appd YYY.MM.DD
File Name: 153906_G-003				2023.11.09
JA	CW	MP	2023.11.09	
Dwn.	Dgln.	Chkd.	YYYY.MM.DD	

Permit/Seal

**NOTE:**  
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MESSAGE PRIOR TO CONSTRUCTION.

Client/Project  
CITY OF ANN ARBOR  
  
ANN ARBOR PARKS  
BRIDGE REPLACEMENT  
Ann Arbor, MI

**SOIL EROSION CONTROL AND CONSTRUCTION DETAILS**

Project No. 2075153906	Scale:
Revision Sheet 0 03 of 09	Drawing No. <b>G-003</b>

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**CONSTRUCTION NOTES:**

SEE GENERAL SITE NOTES AND GENERAL BRIDGE NOTES ON SHEET G-002.

DRAWINGS SHALL NOT BE SCALED.

EXCAVATE TO THE BOTTOM ELEVATION SHOWN FOR EACH SUBSTRUCTURE UNIT AS THE LOWER LIMIT AND TO EXISTING GRADE AS THE UPPER LIMIT. THE EXTENT OF THE EXCAVATION INCLUDING BACK SLOPE ANGLE TO BE DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR DEPENDING ON SOIL PROPERTIES AND/OR OSHA SAFETY FACTORS.

VERIFY PREFABRICATED BRIDGE DIMENSIONS PRIOR TO CONSTRUCTING CONCRETE ABUTMENTS.

DRESS SLOPES AND PLACE FILTER MATERIALS AND RIPRAP IN THE APPROXIMATE AREAS SHOWN AS DIRECTED BY THE ENGINEER.

**KEY NOTES:**

1 ITEM INCLUDES REMOVAL OF EXISTING TIMBER BRIDGE, CONCRETE ABUTMENTS, AND APPROACH PANELS. MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OFF SITE.

2 ITEM INCLUDES ALL LABOR AND MATERIALS TO INSTALL THE PREFABRICATED BRIDGE, BEARINGS, ANCHOR BOLTS, AND INCIDENTALS.

THE SUPERSTRUCTURE FOR THIS BRIDGE IS AN EXISTING BRIDGE THAT WILL BE REFURBISHED AND REUSED FOR THIS SITE. THE BRIDGE IS LOCATED AT:

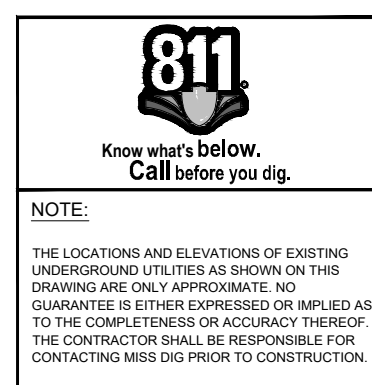
ANN ARBOR FIELD OPERATIONS  
4251 STONE SCHOOL RD  
ANN ARBOR, MI 48108

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE CITY, TRANSPORT, AND INSTALLATION OF REFURBISHED BRIDGE. THE CONTRACTOR SHALL VERIFY THE EXISTING BRIDGE DIMENSIONS AND FIT WITH THE PROPOSED ABUTMENTS PRIOR TO CONSTRUCTION OF THE ABUTMENTS. SHOP DRAWINGS FOR REFURBISHED BRIDGE ARE PROVIDED ON SHEETS C-101 AND C-102 FOR REFERENCE.

3 ITEM INCLUDES ALL MATERIALS AND LABOR TO CONSTRUCT THE CAST-IN-PLACE REINFORCED CONCRETE ABUTMENTS, INCLUDING CONCRETE, CURING, REINFORCEMENT, EXCAVATION, DEWATERING, AND SITE PREPARATION.

D	BID SET	CW	MP	2024.08.16
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B	REVIEW SET	CW	MP	2024.03.15
A	PRELIMINARY PLANS	CW	MP	2023.11.10
Issued		By	App'd	YYYY.MM.DD
File Name:	153906C-100	JA	CW	MP
		Dwn.	Dgln.	Chkd.
				YYYY.MM.DD

**Permit/Seal**



Client/Project  
CITY OF ANN ARBOR

ANN ARBOR PARKS  
BRIDGE REPLACEMENT

Ann Arbor, MI

**LESLIE PARK BRIDGE -  
EX. COND, DEMO, SESC &  
CONSTRUCTION PLAN**

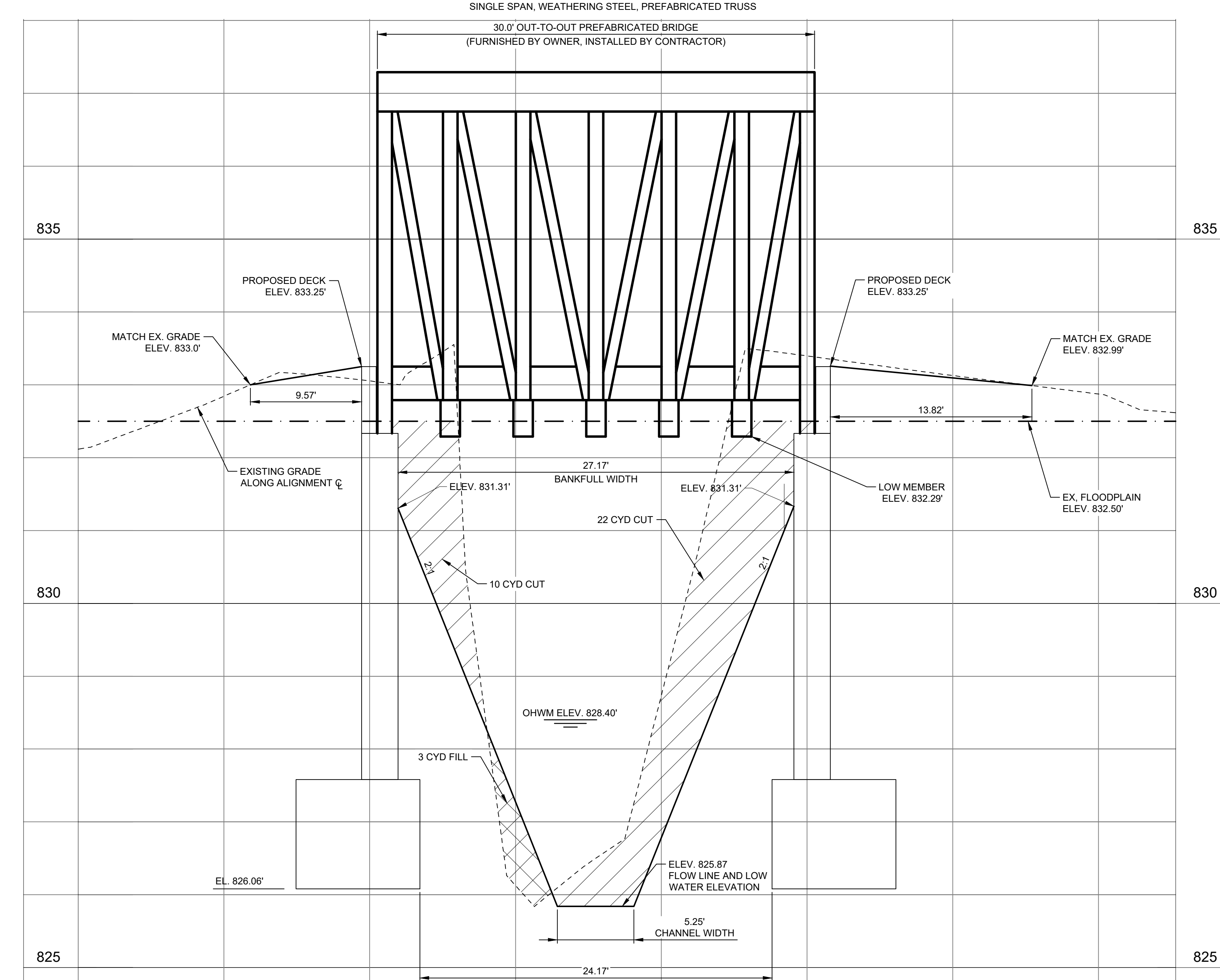
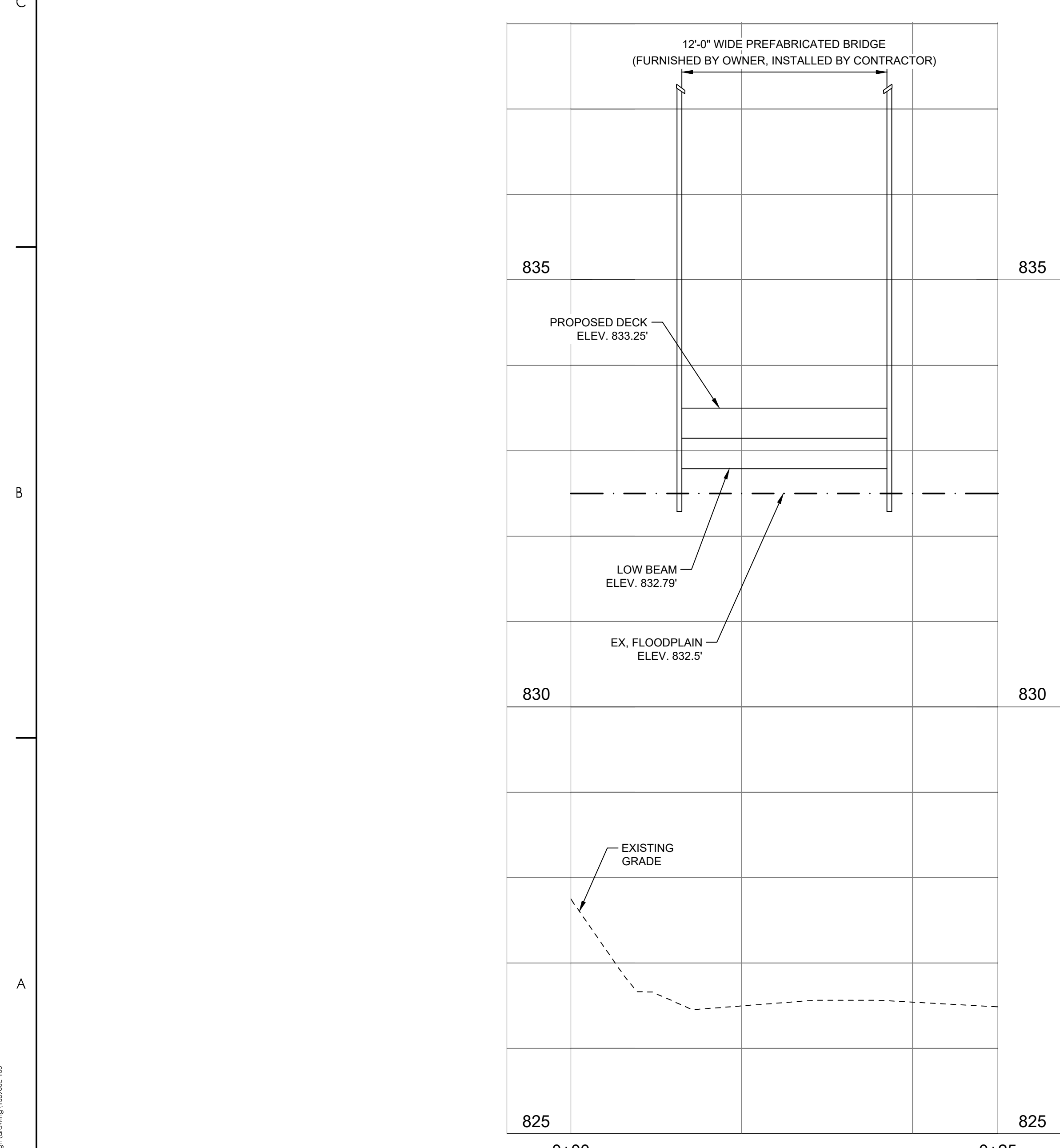
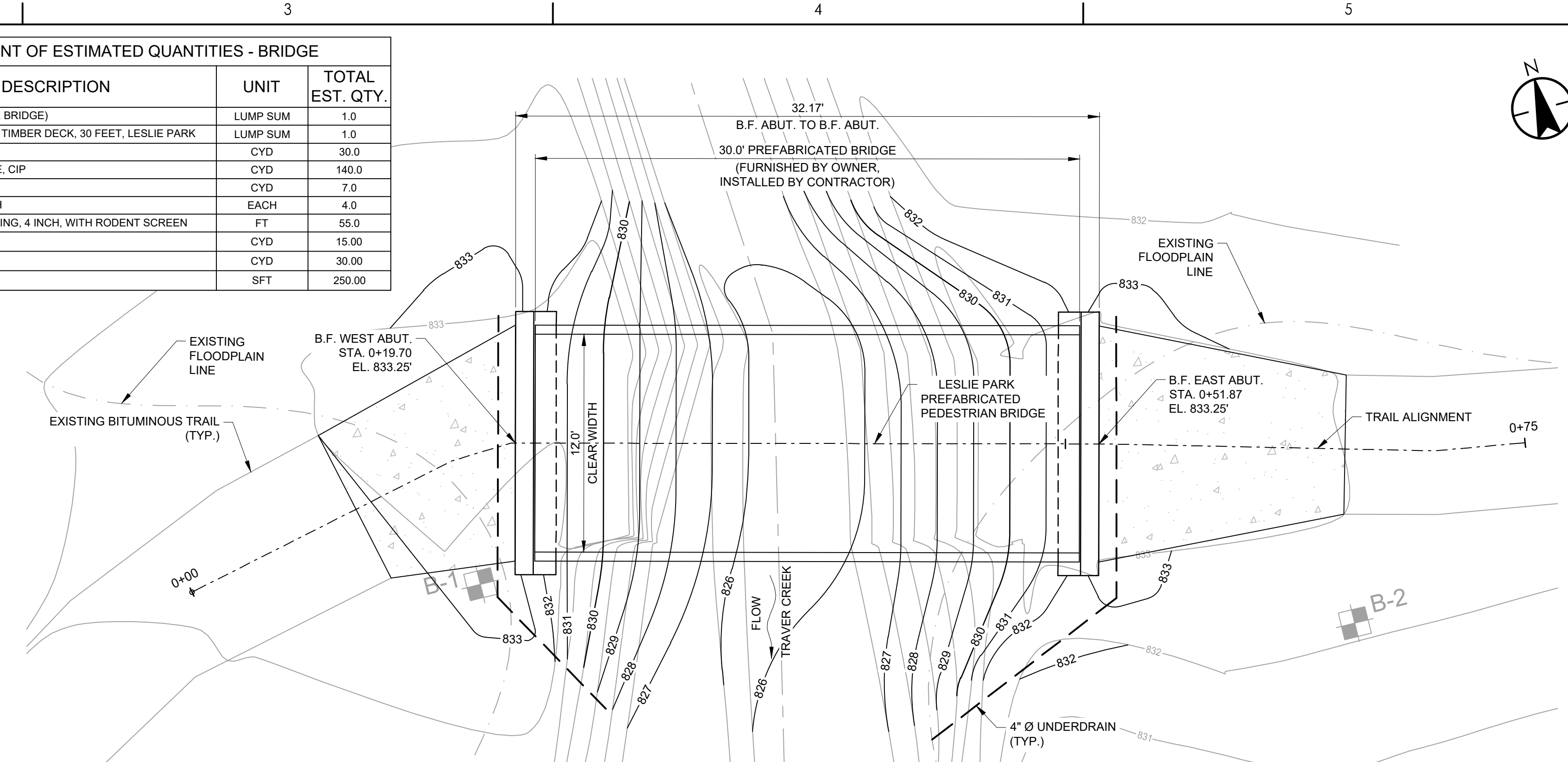
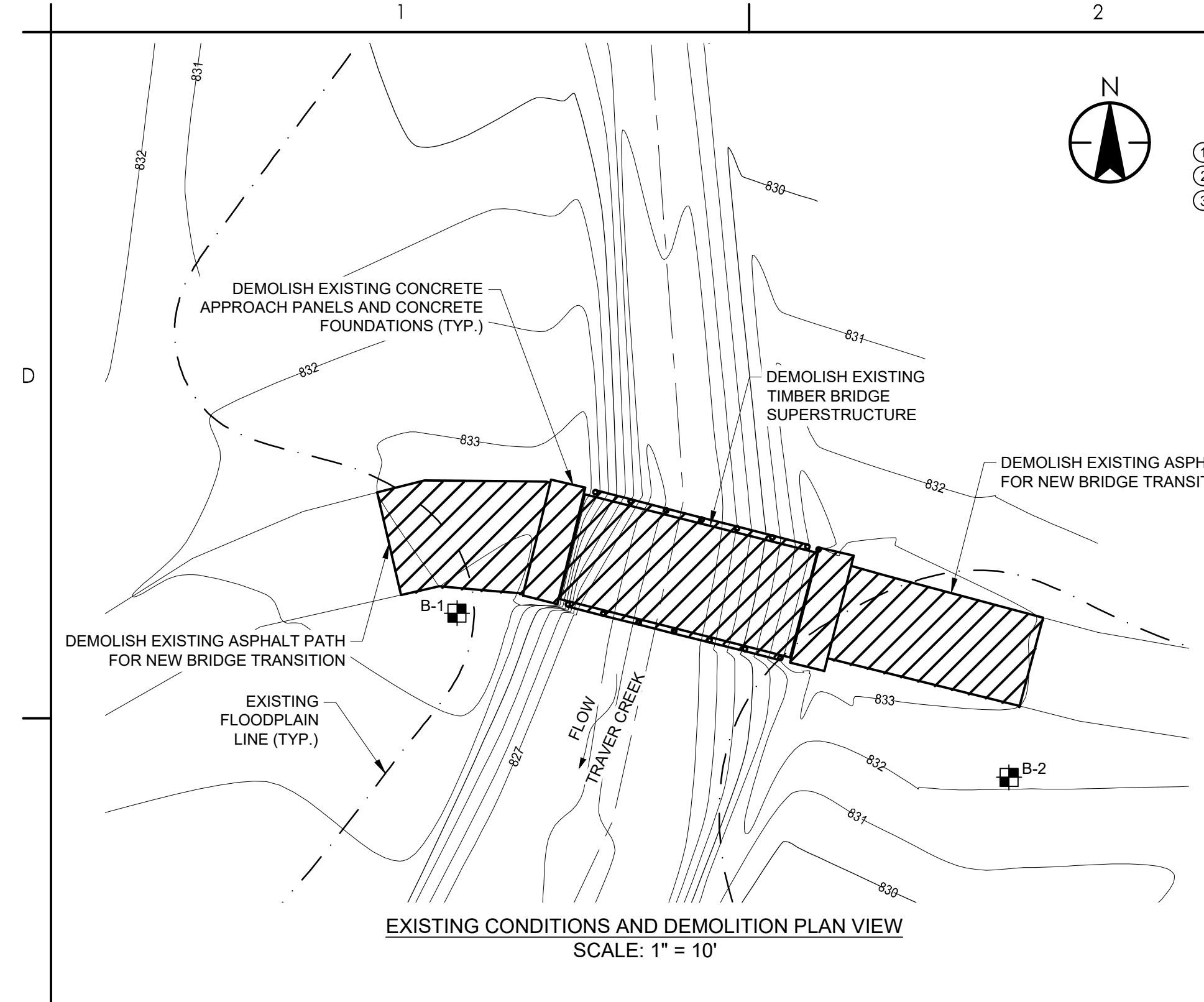
Project No.  
2075153906

Revision Sheet  
0 04 of 09

Scale:  
AS NOTED

Drawing No.  
C-100

STATEMENT OF ESTIMATED QUANTITIES - BRIDGE		
ITEM DESCRIPTION	UNIT	TOTAL EST. QTY.
1 STRUCTURES, REM (LESLIE BRIDGE)	LUMP SUM	1.0
2 PREFABRICATED BRIDGE, TIMBER DECK, 30 FEET, LESLIE PARK	LUMP SUM	1.0
3 SUBSTRUCTURE CONC	CYD	30.0
EMBANKMENT, STRUCTURE, CIP	CYD	140.0
AGGREGATE, 6A	CYD	7.0
UNDERDRAIN, BANK, 4 INCH	EACH	4.0
UNDERDRAIN, OUTLET ENDING, 4 INCH, WITH RODENT SCREEN	FT	55.0
RIPRAP, PLAIN	CYD	15.00
HMA SURFACE, REM	CYD	30.00
SIDEWALK, CONC, 6 INCH	SFT	250.00



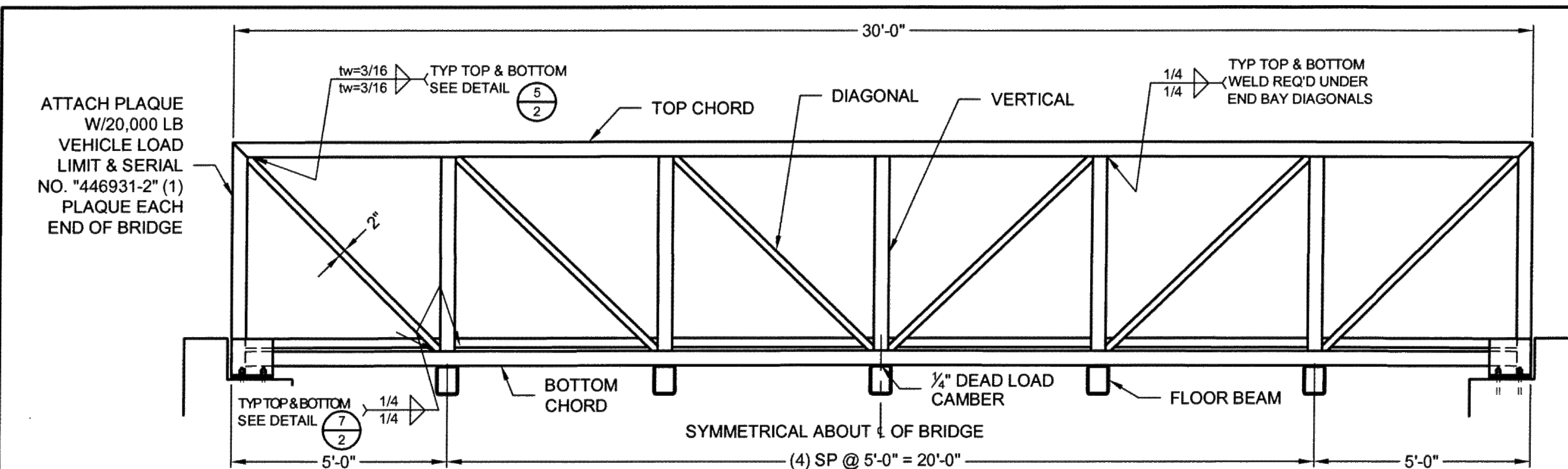
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**NOTES:**

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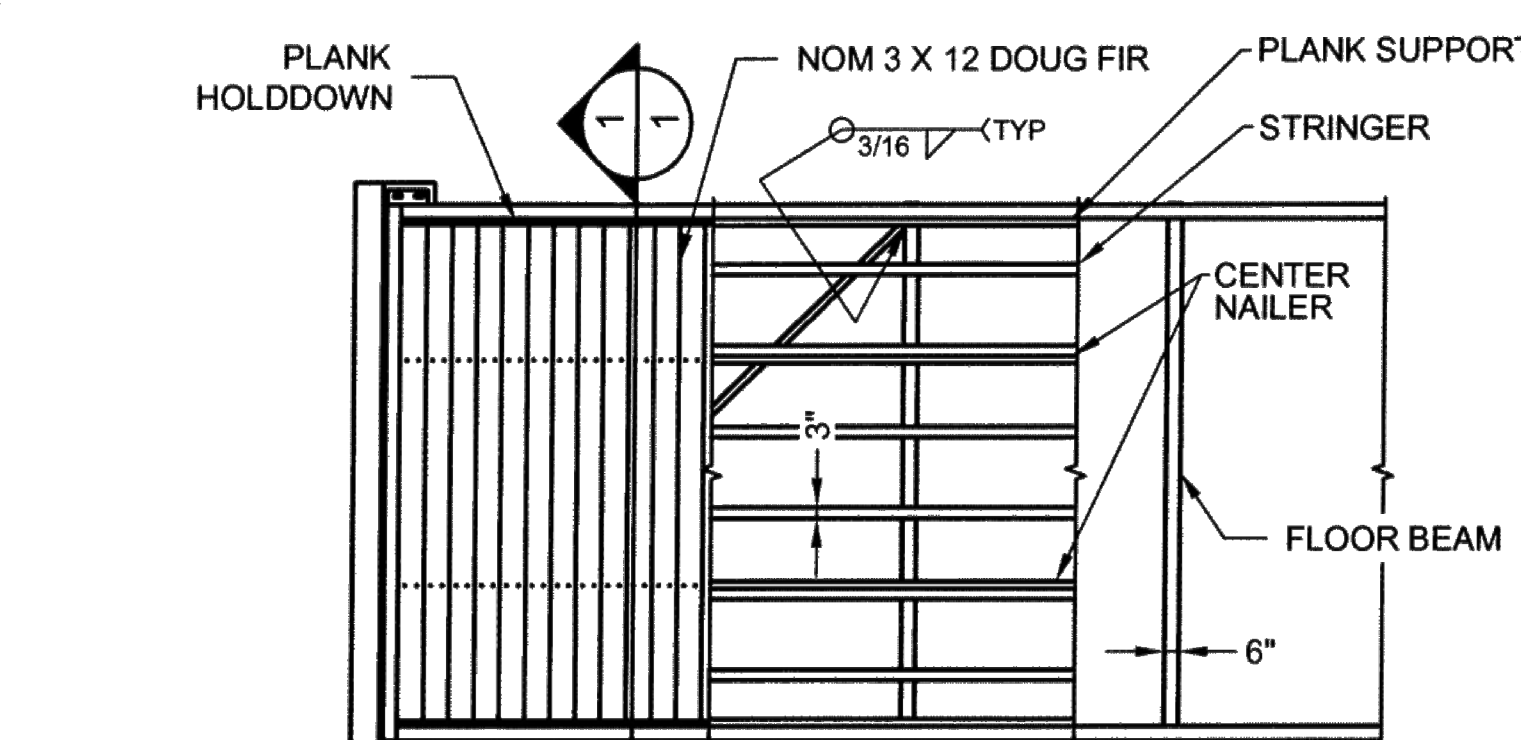
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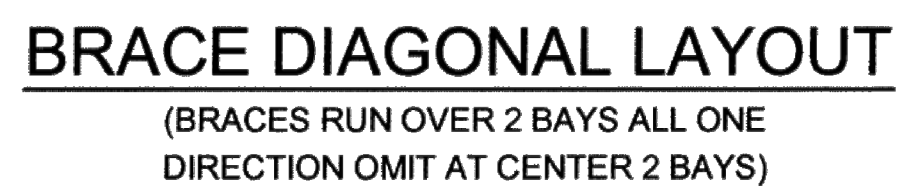
**BRIDGE SECTION**

SAFETY RAILS AND TOE PLATE NOT SHOWN IN ELEVATION SEE BRIDGE SECTION FOR QUANTITY & LAYOUT

**CAUTION:**  
WE ARE PROVIDING A WOOD DECK ON THIS STRUCTURE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR THE CONTRACT DOCUMENTS. BE AWARE THAT MOST PEDESTRIAN BRIDGE LIABILITY CLAIMS ARE STATISTICALLY SLIP AND FALL CLAIMS. IT IS THE OWNER'S RESPONSIBILITY TO KEEP THE DECK FREE FROM SLIP OR TRIP HAZARDS DUE TO CUPPING, SPLITS, GAPS AND SMOOTH SURFACES.

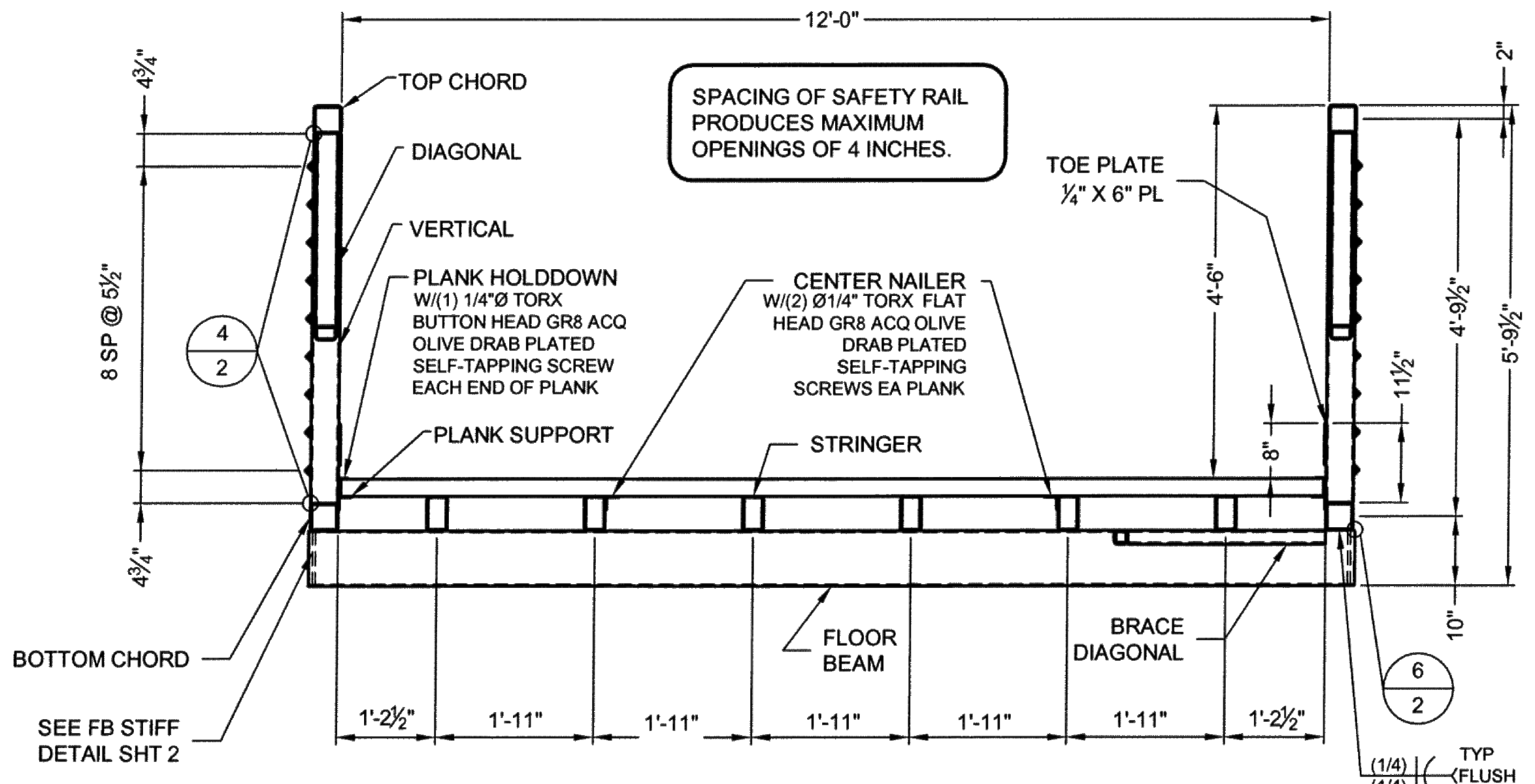


**BRIDGE PLAN**

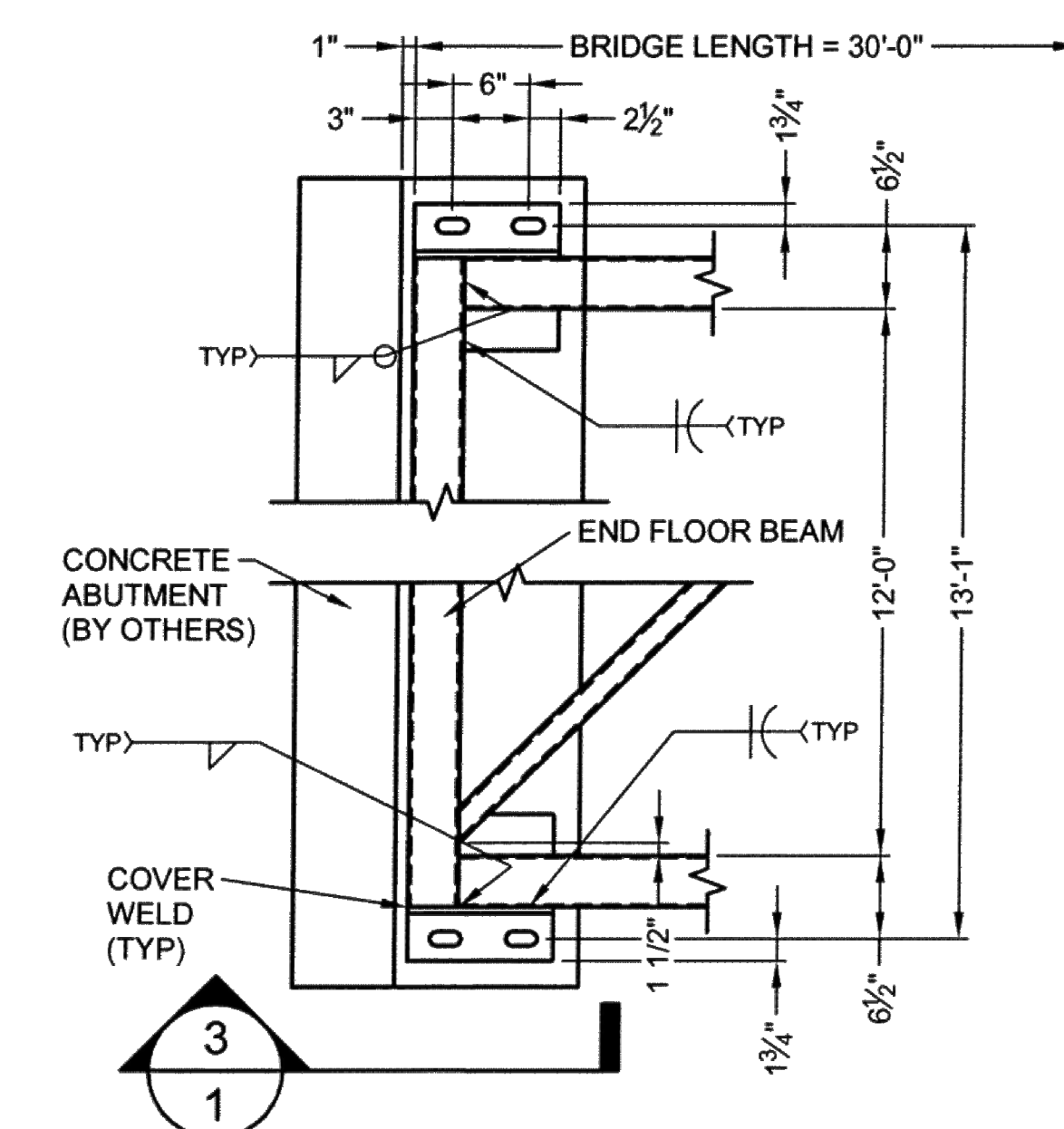


**BRACE DIAGONAL LAYOUT**

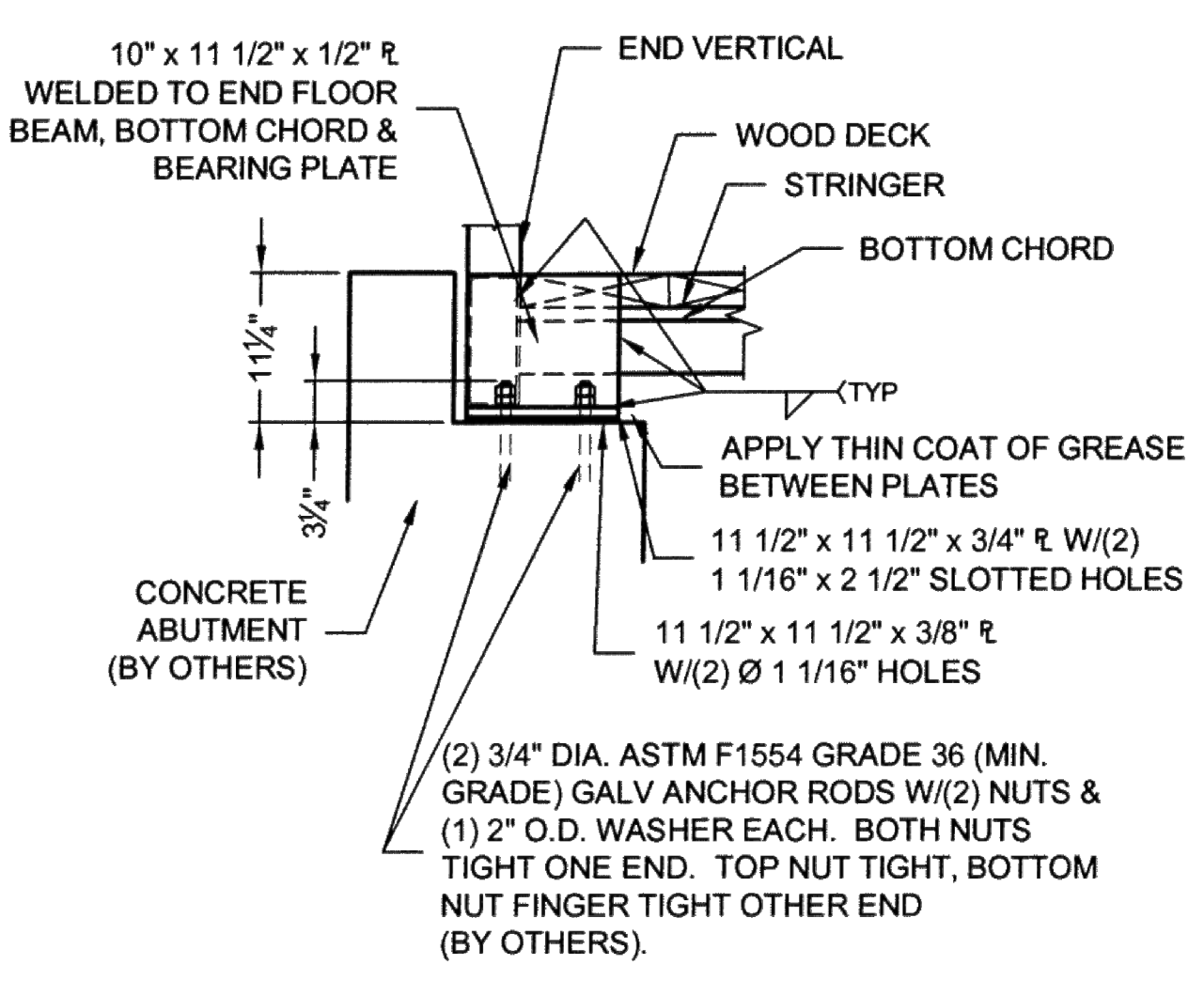
SHOP NOTE:  
GRIND THE INSIDE WELD OF VERTICAL TO BOTTOM CHORD TO ACCOMMODATE PLANK SUPPORT PLACEMENT.



**BRIDGE SECTION**



**BEARING ASSEMBLY - PLAN**



**BEARING ASSEMBLY - SIDE VIEW**

SCHEDULE OF MEMBERS	
TOP CHORD	HSS 4 X 4 X 1/4
BOTTOM CHORD	HSS 4 X 4 X 1/4
VERTICAL	HSS 4 X 4 X 3/8
END VERTICAL	HSS 4 X 4 X 1/4
DIAGONAL	HSS 2 X 2 X 3/8 *
BRACE DIAGONAL	HSS 2 X 2 X 3/8
FLOOR BEAM	HSS 8 X 6 X 3/8
STRINGER	HSS 5 X 3 X 3/8
END FLOOR BEAM	HSS 10 X 4 X 1/4
PLANK SUPPORT	L 2 X 2 X 3/8
PLANK HOLDDOWN	L 1 1/4 X 1 1/4 X 3/8
CENTER NAILER	L 2 X 2 X 3/8
SAFETY RAIL	L 1 1/4 X 1 1/4 X 3/8

\* USE HSS 3 x 2 x 3/16 END BAY ONLY, TYP. EACH END DOUBLE MITER ALL DIAGONALS

CONTECH CONTRACT DRAWING

8 Sept 11

**CONTECH CONSTRUCTION PRODUCTS INC.**  
www.contech-cpi.com  
8501 Blake Highway 28 North, Ann Arbor, MI 48108  
800-320-2647 313-882-7850 313-882-7007 FAX

**CONTINENTAL BRIDGE**

DATE: 9/8/2011  
DESIGNED: DAN MDM  
DRAWN: MDM  
CHECKED: DAN AKH  
APPROVED: AKH  
PROJECT No.: 446931 SEQUENCE No.: 2  
SHEET: 1 OF 2

**30'-0" X 12'-0"**  
**ARGO DAM HEADRAIL IMPROVEMENTS**  
**PEDESTRIAN BRIDGE**  
**ANN ARBOR, MI**

MARK	DATE	REVISION DESCRIPTION	BY

Permit/Seal

**811**  
Know what's below. Call before you dig.

NOTE:  
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Client/Project  
CITY OF ANN ARBOR

ANN ARBOR PARKS  
BRIDGE REPLACEMENT

Ann Arbor, MI

CONTECH EXISTING BRIDGE DETAILS - LESLIE PARK

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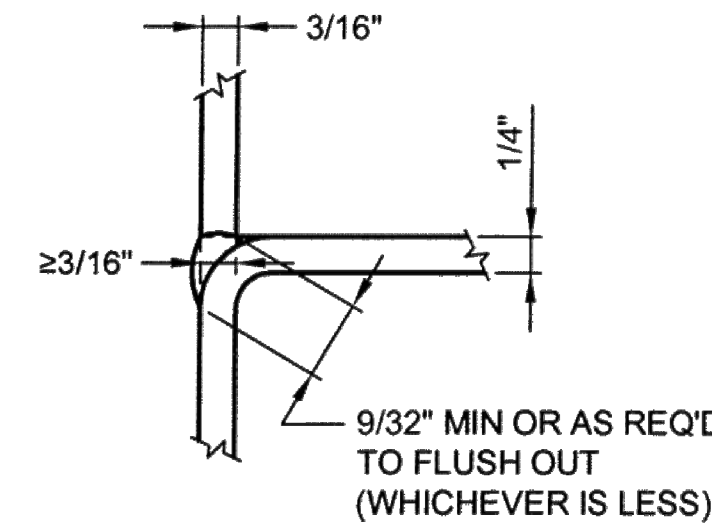
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**NOTES:**

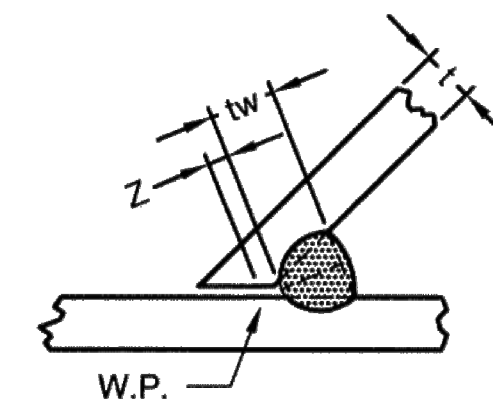
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**GENERAL NOTES**

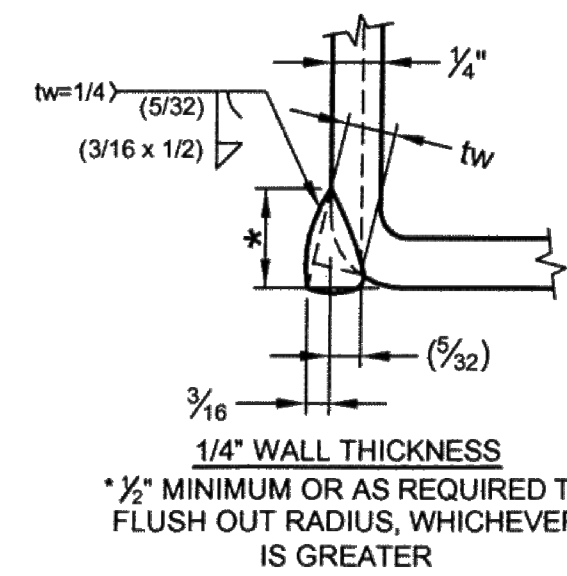
- DESIGN STRESSES ARE IN ACCORDANCE WITH THE MANUAL OF STEEL CONSTRUCTION FOR ALLOWABLE STRESS DESIGN AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
- BRIDGE MEMBERS ARE FABRICATED FROM HIGH STRENGTH, LOW ALLOY, ENHANCED ATMOSPHERIC CORROSION RESISTANT ASTM A847 COLD-FORMED WELDED SQUARE AND RECTANGULAR TUBING, AND ASTM A588, ASTM A606, OR ASTM A242 PLATE AND STRUCTURAL SHAPES (Fy=50,000 PSI).
- BRIDGE DECKING NOMINAL 3-INCH THICK SELECT STRUCTURAL FIR (fb=1400 PSI MIN) TIMBER DECK SHALL BE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) TO A 0.4 PCF RETENTION OR TO REFUSAL.
- THE GAS METAL ARC WELDING PROCESS OR FLUX CORED ARC WELDING PROCESS WILL BE USED.
- ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS. WELD BETWEEN TOP CHORD AND END VERTICAL SHALL BE COMPLETE PENETRATION TYPE WELDS ON BOTH SIDES WITH A PARTIAL PENETRATION GROOVE WELD ON THE TOP SIDE AND A FILLET WELD ON THE BOTTOM SIDE.
- UNLESS OTHERWISE NOTED, WELDED CONNECTIONS SHALL BE FILLET WELDS (OR HAVE THE EFFECTIVE THROAT OF A FILLET WELD) OF A SIZE EQUAL TO THE THICKNESS OF THE LIGHTEST GAGE MEMBER IN THE CONNECTION. WELDS SHALL BE APPLIED AS FOLLOWS:
  - BOTH ENDS OF VERTICALS, DIAGONALS, AND FLOOR BEAMS SHALL BE WELDED ALL AROUND.
  - BRACE DIAGONALS WILL BE WELDED ALL AROUND.
  - BOTTOM OF STRINGERS WILL BE STITCH WELDED TO TOP OF FLOOR BEAMS.
  - MISCELLANEOUS NON-STRUCTURAL MEMBERS WILL BE STITCH WELDED TO THEIR SUPPORTING MEMBERS.
- BRIDGE DESIGN WAS ONLY BASED ON COMBINATIONS OF THE FOLLOWING LOADS WHICH WILL PRODUCE MAXIMUM CRITICAL MEMBER STRESSES.
  - 85 PSF UNIFORM LIVE LOADING ON THE FULL DECK AREA OR ONE 20,000 POUND VEHICLE LOAD. THE VEHICLE LOAD SHALL BE DISTRIBUTED AS A FOUR-WHEEL VEHICLE WITH 80% OF THE LOAD ON THE REAR WHEELS. THE WHEEL TRACK WIDTH OF THE VEHICLE SHALL BE 6'-0" AND THE WHEEL BASE SHALL BE 14'-0". THE VEHICLE SHALL BE POSITIONED SO AS TO PRODUCE THE MAXIMUM STRESS IN EACH MEMBER, INCLUDING DECKING.
  - 25 PSF WIND LOAD ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED.
  - 20 PSF UPWARD FORCE APPLIED AT THE WINDWARD QUARTER POINT OF THE TRANSVERSE BRIDGE WIDTH (AASHTO 3.15.3).
- CLEANING: ALL EXPOSED SURFACES OF STEEL SHALL BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACES PREPARATION SPECIFICATIONS NO. 7 BRUSH-OFF BLAST CLEANING. SSPC-SP7-LATEST EDITION.



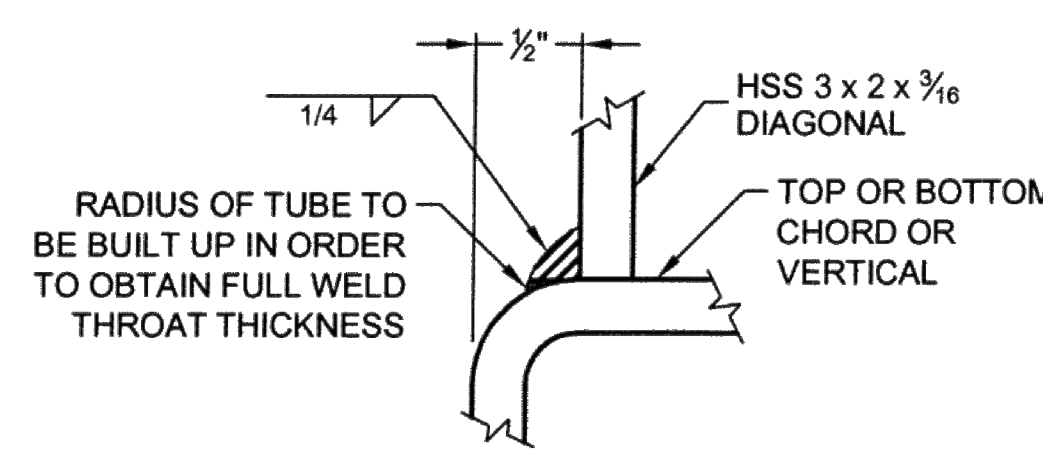
**4 WELD DETAIL**  
1



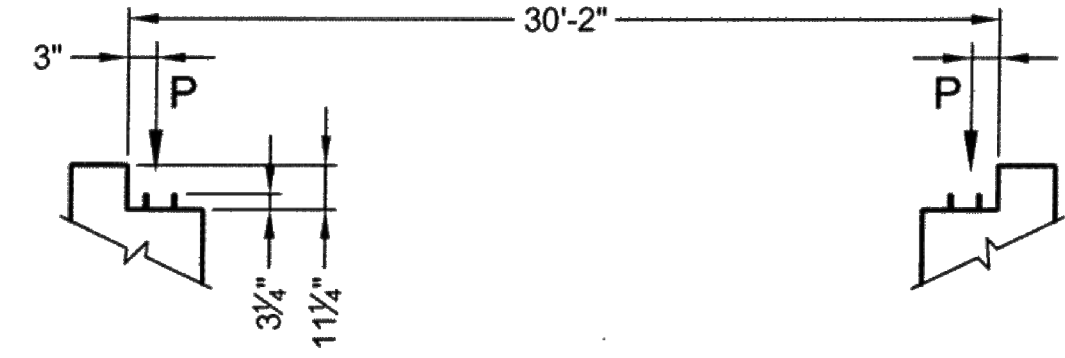
**5 WELD DETAIL**  
1



**6 WELD DETAIL**  
1



**7 WELD DETAIL**  
1



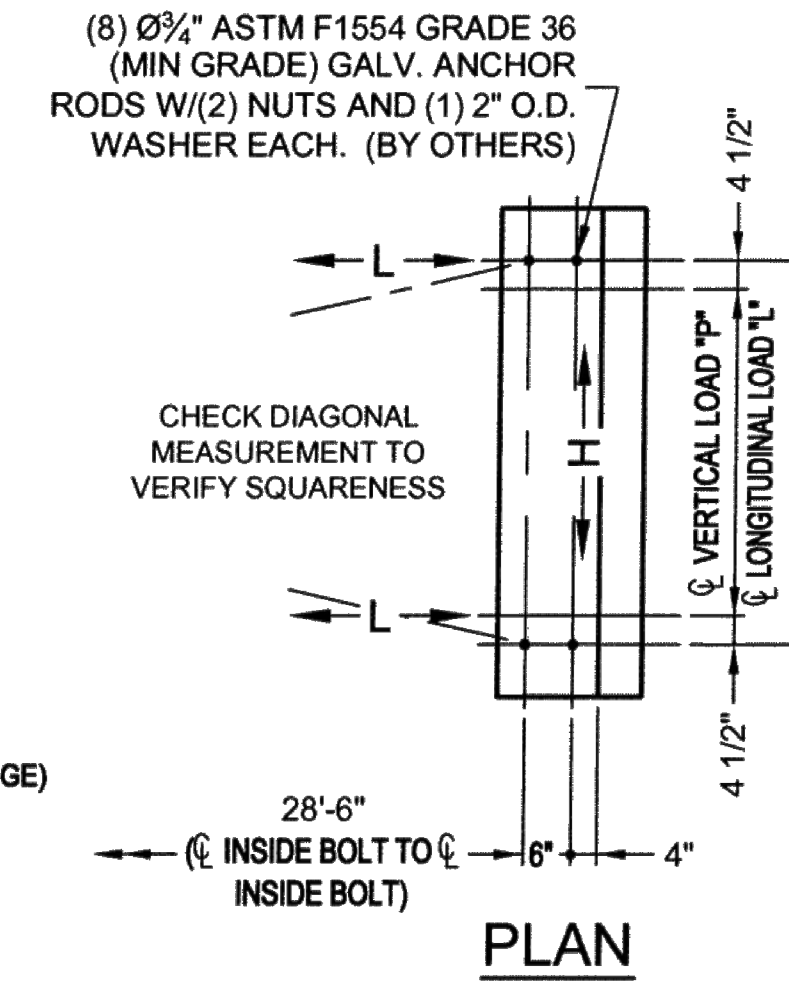
**ANCHOR BOLT ELEVATION**

COMBINE REACTIONS AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED

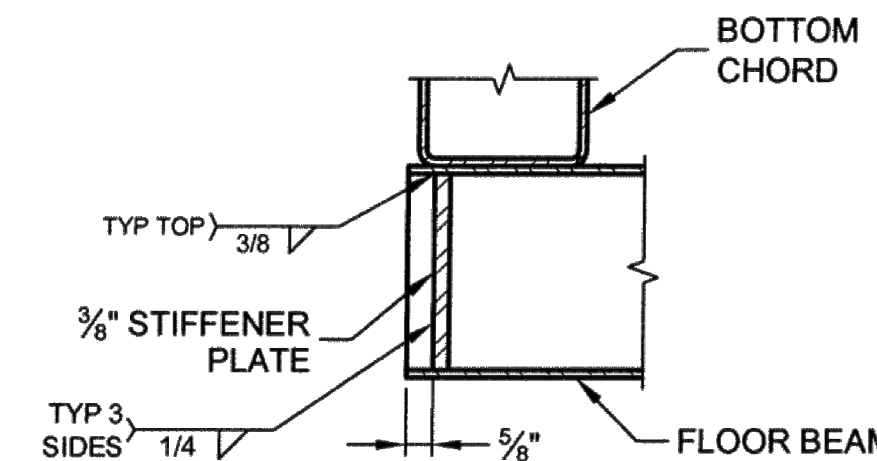
BRIDGE REACTIONS	* DOWNWARD LOAD - UPWARD LOAD		
	P (LBS)	H (LBS)	L (LBS)
DEAD LOAD	3,025		
UNIFORM LIVE LOAD	7,650		
VEHICLE LOAD	10,000		
WIND UPLIFT 20 PSF		-2,850	
WIND			-660
THERMAL			1,060

\*P\* - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)  
\*H\* - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)  
\*L\* - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE)

BRIDGE LIFTING WEIGHT: 12,100 LBS

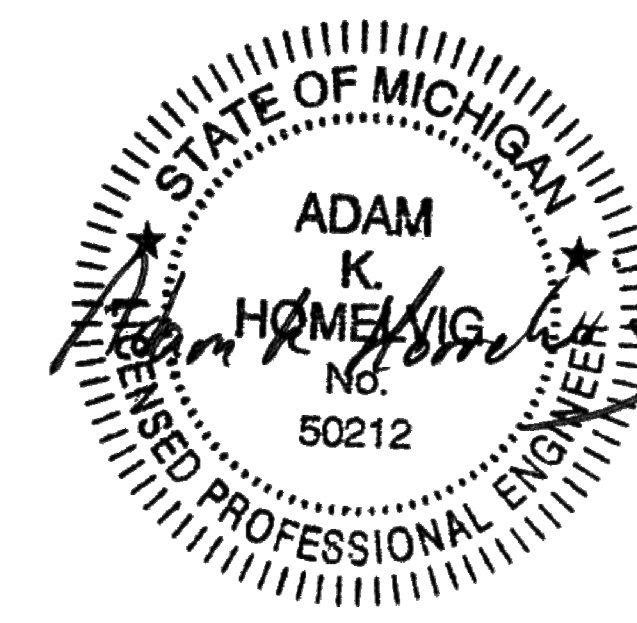


**PLAN**



**STIFFENER PLATE DETAIL**  
TYP BOTH ENDS OF EVERY FLOOR BEAM

CONTECH  
CONTRACT  
DRAWING



8 Sept 11

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MARK	DATE	REVISION DESCRIPTION	BY

**30'-0" X 12'-0"**  
**ARGO DAM HEADRACE IMPROVEMENTS**  
**PEDESTRIAN BRIDGE**  
**ANN ARBOR, MI**

**CONTECH CONSTRUCTION PRODUCTS INC.**  
www.contech-cpi.com  
8901 State Highway 29 North, Ansonia, MN 55308  
608-329-2047 320-882-7000 320-882-7087 FAX

**CONTINENTAL BRIDGE**

DATE:	9/8/2011
DESIGNED:	DAN
DRAWN:	MDM
CHECKED:	DAN
APPROVED:	AKH
PROJECT No.:	446931
SEQUENCE No.:	2
SHEET:	2 OF 2

D	BID SET	CW	MP	2024.08.16
C	PERMIT SET	CW	MP	2024.05.15
B	REVIEW SET	CW	MP	2024.03.15
A	PRELIMINARY PLANS	CW	MP	2023.11.10
Issued		By	Appd	YYYY.MM.DD
File Name:	153936C-102	J/A	CW	MP
		Dwn.	Dgln.	Chkd.
				YYYY.MM.DD

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Client/Project  
CITY OF ANN ARBOR

ANN ARBOR PARKS  
BRIDGE REPLACEMENT

Ann Arbor, MI

CONTECH EXISTING BRIDGE DETAILS II - LESLIE PARK

Project No. 2075153906 Scale:

Revision Sheet 0 of 09 Drawing No.

**C-102**

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**KEY NOTES:**

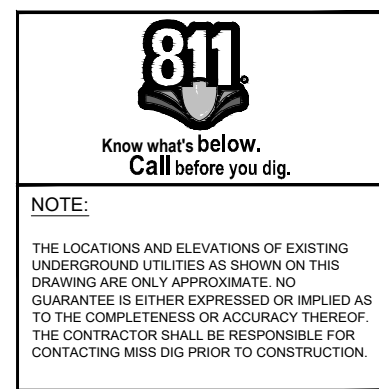
- ① 2X6 BEVELED CONSTRUCTION JOINT.
- ② SEE CONTECH SHOP DRAWINGS ON SHEETS C-101 AND C-102 FOR ANCHOR BOLT LOCATIONS. PROVIDE A MINIMUM CLEARANCE OF 2" BETWEEN ABUTMENT REINFORCEMENT AND ANCHOR BOLTS.
- ③ PROVIDE  $\frac{1}{8}$ " PER FOOT MINIMUM RUNNING SLOPE TO DAYLIGHT. CAP WITH RODENT SCREEN.

**ABUTMENT NOTES:**

VERIFY ABUTMENT LAYOUT, INCLUDING ANCHOR BOLT LOCATIONS, WITH BRIDGE SUPPLIER PRIOR TO CONSTRUCTION.  
 PLACE CONCRETE WITHOUT CONSTRUCTION JOINTS EXCEPT AS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER.  
 FORM ALL EXPOSED CONCRETE EDGES WITH A  $\frac{1}{2}$ " OR  $\frac{3}{8}$ " CHAMFER UNLESS OTHERWISE NOTED.  
 PLACE REINFORCEMENT WITH A MINIMUM 2" CLEARANCE TO FACE OF CONCRETE UNLESS SHOWN OTHERWISE.  
 BACKFILL ABUTMENT WITH EQUAL LIFTS ON EACH SIDE.  
 THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND BAR LISTS OF ALL REINFORCEMENT MATERIALS TO BE FURNISHED AND INSTALLED. SHOW BAR SIZES, SPACINGS, LOCATIONS, BENDING DETAILS, AND QUANTITIES REQUIRED.

D	BID SET	CW	MP	2024.08.16
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File Name: 153906C-103		J.A.	CW	MP
		Dwn.	Dgr.	Chkd.
				YYYY.MM.DD

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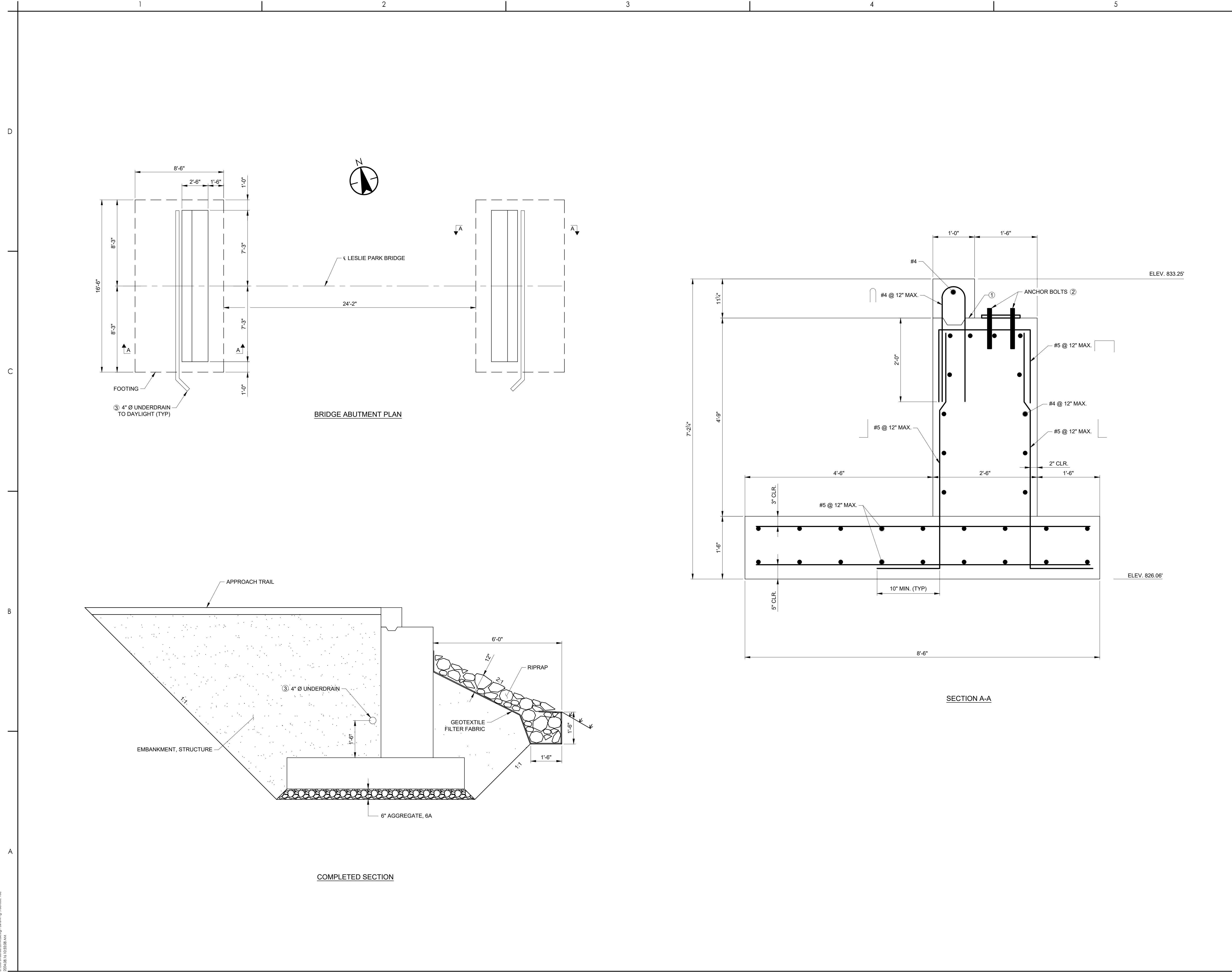


Client/Project  
 CITY OF ANN ARBOR

ANN ARBOR PARKS  
 BRIDGE REPLACEMENT  
 Ann Arbor, MI

LESLIE PARK BRIDGE  
 ABUTMENT DETAILS

Project No. 2075153906  
 Revision Sheet 07 of 09  
 Scale:  
 Drawing No. C-103



**CONSTRUCTION NOTES:**

SEE GENERAL SITE NOTES AND GENERAL BRIDGE NOTES ON SHEET G-002.

DRAWINGS SHALL NOT BE SCALED.

EXCAVATE TO THE BOTTOM ELEVATION SHOWN FOR EACH SUBSTRUCTURE UNIT AS THE LOWER LIMIT AND TO EXISTING GRADE AS THE UPPER LIMIT. THE EXTENT OF THE EXCAVATION INCLUDING BACK SLOPE ANGLE TO BE DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR DEPENDING ON SOIL PROPERTIES AND/OR OSHA SAFETY FACTORS.

VERIFY PREFABRICATED BRIDGE DIMENSIONS PRIOR TO CONSTRUCTING CONCRETE ABUTMENTS.

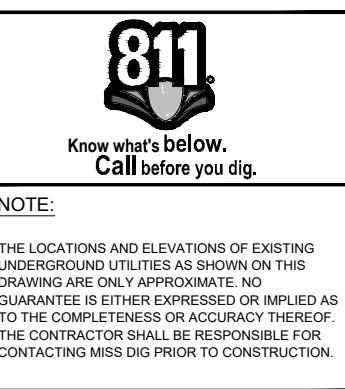
DRESS SLOPES AND PLACE FILTER MATERIALS AND RIPRAP IN THE APPROXIMATE AREAS SHOWN AS DIRECTED BY THE ENGINEER.

**KEY NOTES:**

- ITEM INCLUDES REMOVAL OF EXISTING TIMBER BRIDGE, ABUTMENTS, SIDEWALK, AND CONCRETE PILES. REMOVE CONCRETE PILES TO A DEPTH OF 2 FEET BELOW FINISHED GRADE/EXCAVATION LIMITS. MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OFF SITE.
- ITEM INCLUDES ALL DESIGN, MATERIALS, AND LABOR TO PROVIDE AND INSTALL THE PREFABRICATED BRIDGE, BEARINGS AND ANCHOR BOLTS, REINFORCED CONCRETE DECK, AND INCIDENTALS.
- ITEM INCLUDES ALL MATERIALS AND LABOR TO CONSTRUCT THE CAST-IN-PLACE REINFORCED CONCRETE ABUTMENTS, INCLUDING CONCRETE, REINFORCEMENT, EXCAVATION, DEWATERING, AND SITE PREPARATION.

D	BID SET	CW	MP	2024.08.16
C	PERMIT SET	CW	MP	2024.05.15
B	REVIEW SET	CW	MP	2024.03.15
A	PRELIMINARY PLANS	CW	MP	2023.11.10
Issued		By	Appd	YYYY.MM.DD
File Name: 153906C-104		JA	CW	2023.11.09
		Dwn.	Dgtr.	Chkd.
				YYYY.MM.DD

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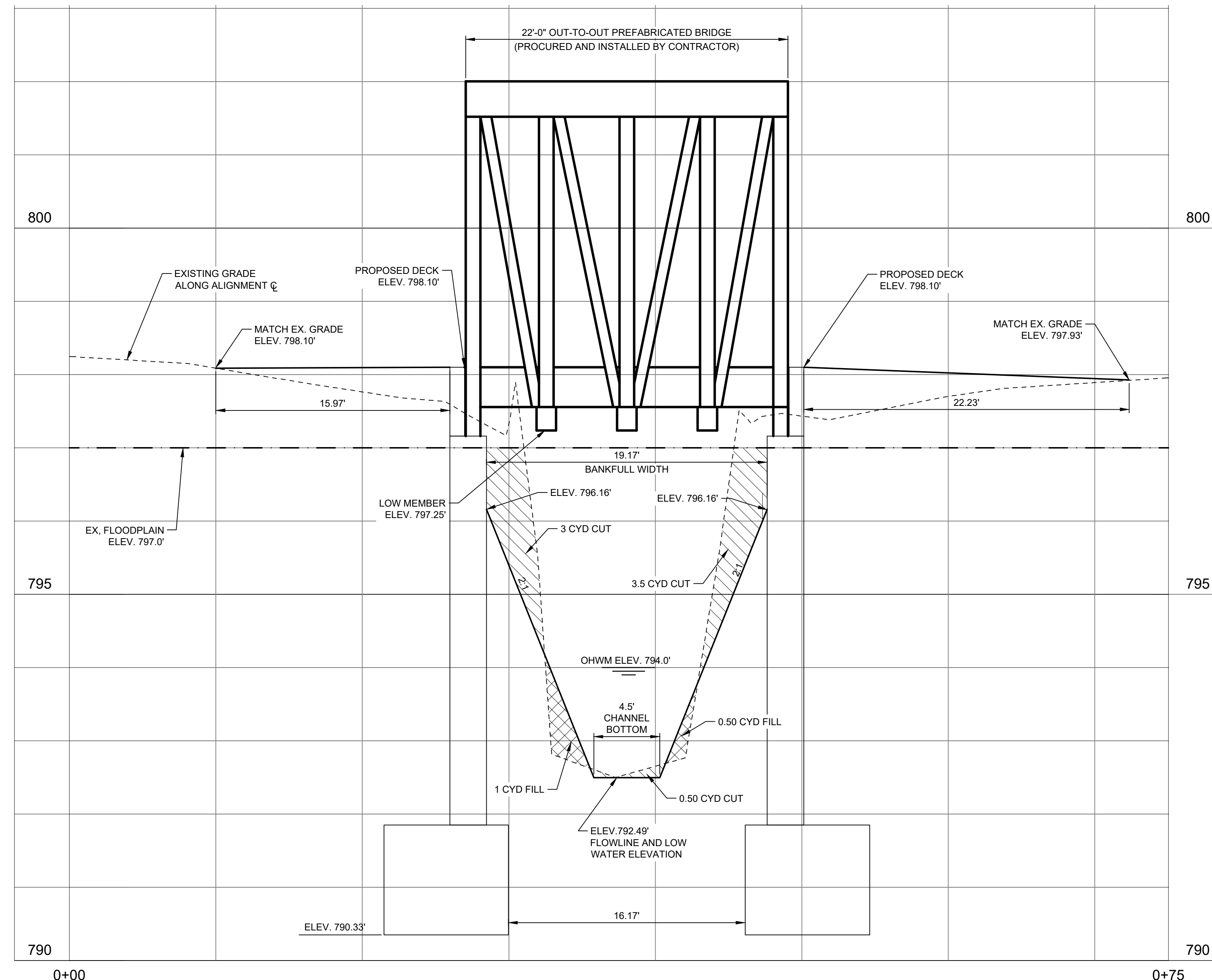
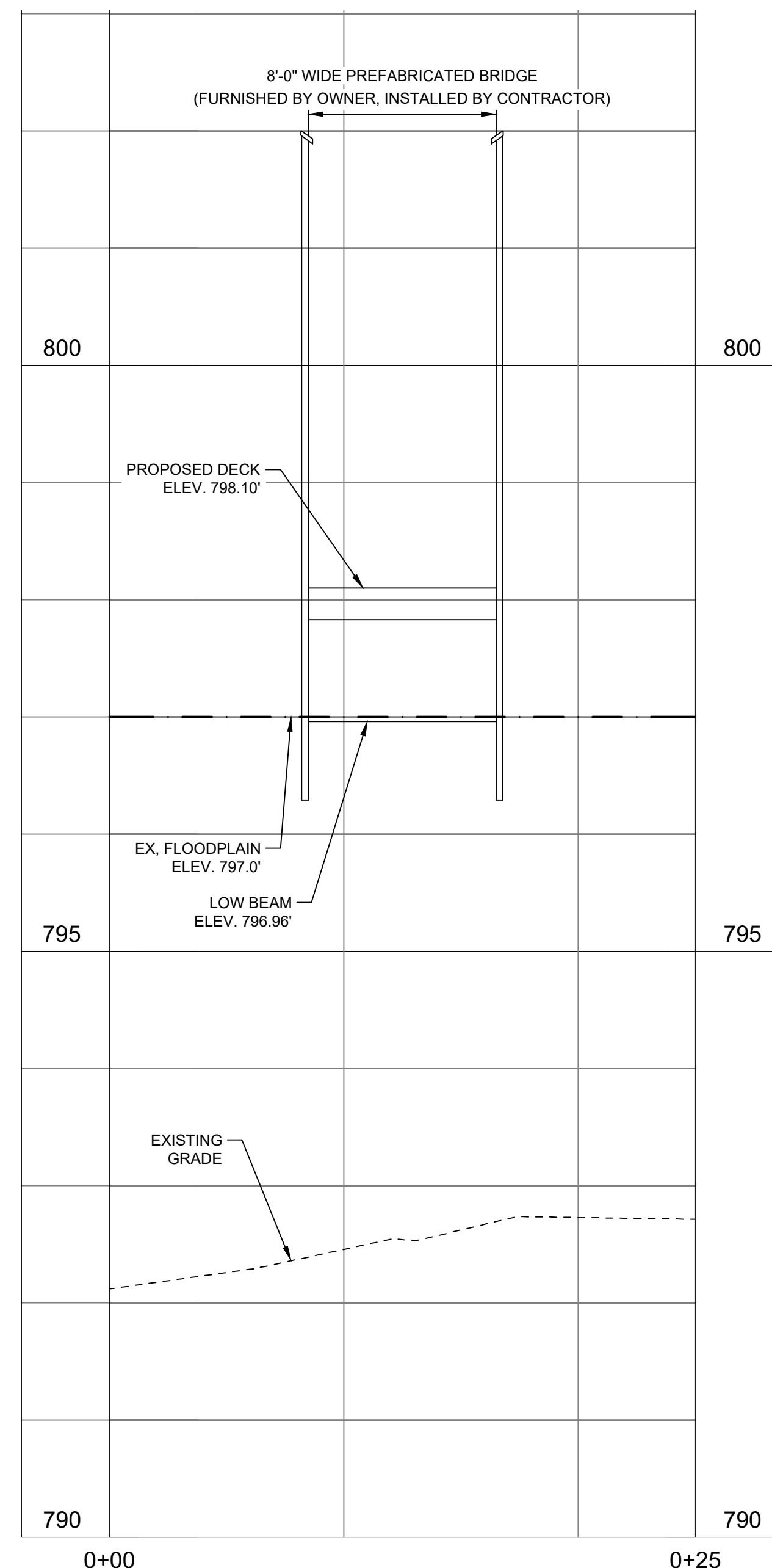
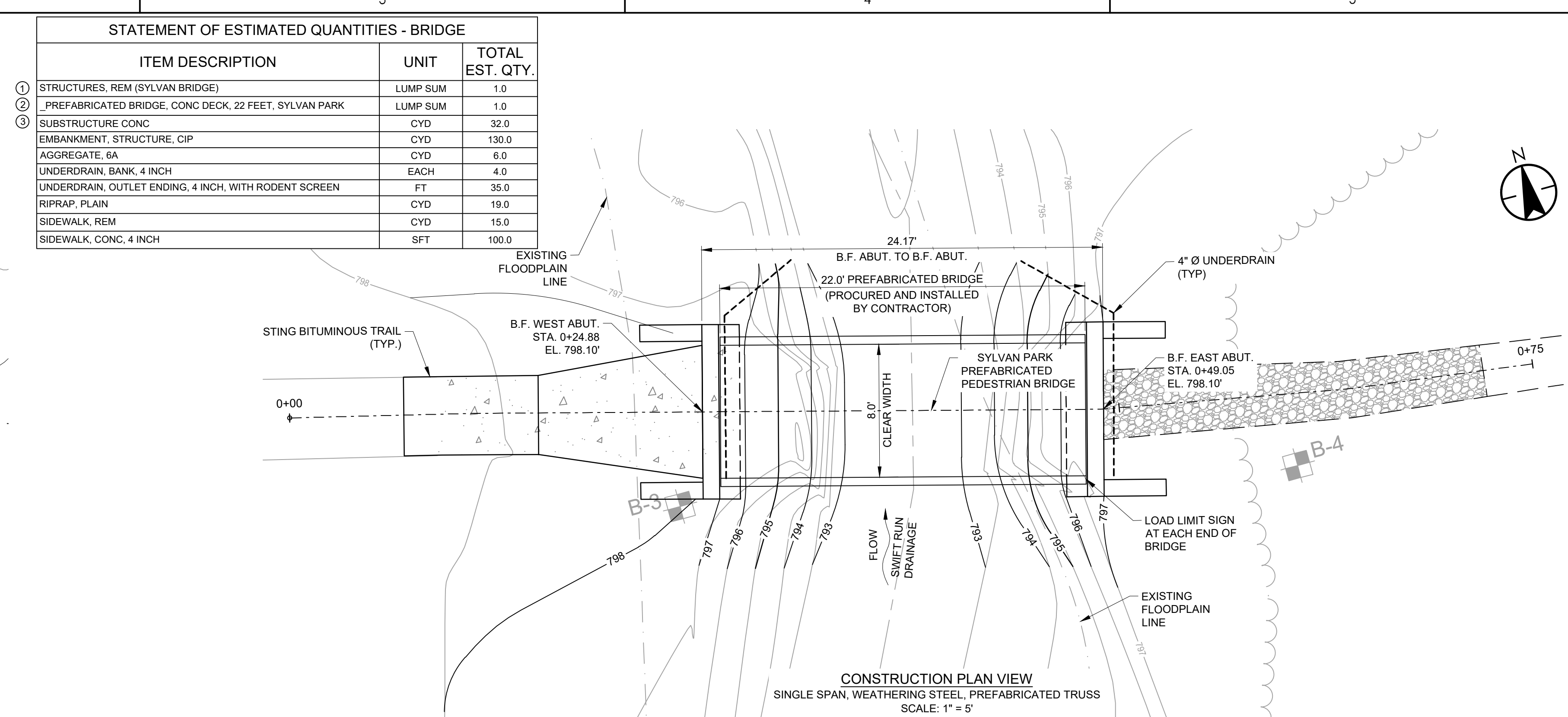
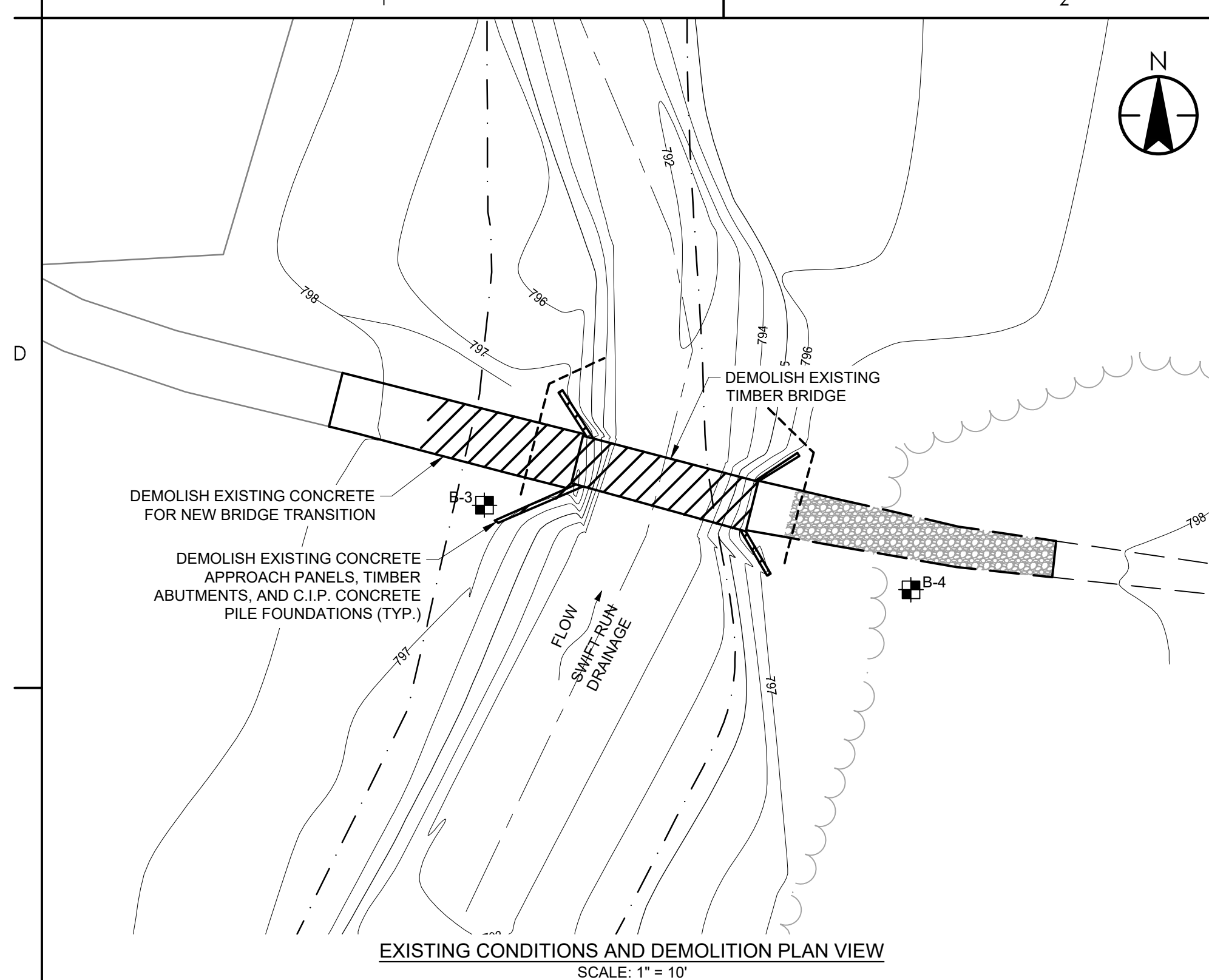
Client/Project  
CITY OF ANN ARBOR

ANN ARBOR PARKS  
BRIDGE REPLACEMENT  
Ann Arbor, MI

SYLVAN PARK BRIDGE -  
EX. COND, DEMO SESC &  
CONSTRUCTION PLAN

Project No. 2075153906	Scale: AS NOTED
Revision Sheet 0 08 of 09	Drawing No. C-104

STATEMENT OF ESTIMATED QUANTITIES - BRIDGE		
ITEM DESCRIPTION	UNIT	TOTAL EST. QTY.
① STRUCTURES, REM (SYLVAN BRIDGE)	LUMP SUM	1.0
② PREFABRICATED BRIDGE, CONC DECK, 22 FEET, SYLVAN PARK	LUMP SUM	1.0
③ SUBSTRUCTURE CONC	CYD	32.0
EMBANKMENT, STRUCTURE, CIP	CYD	130.0
AGGREGATE, 6A	CYD	6.0
UNDERDRAIN, BANK, 4 INCH	EACH	4.0
UNDERDRAIN, OUTLET ENDING, 4 INCH, WITH RODENT SCREEN	FT	35.0
RIPRAP, PLAIN	CYD	19.0
SIDEWALK, REM	CYD	15.0
SIDEWALK, CONC, 4 INCH	SFT	100.0





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The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.  
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KEY NOTES:

- ① 2X6 BEVELED CONSTRUCTION JOINT.
- ② PROVIDE A MINIMUM CLEARANCE OF 2" BETWEEN ABUTMENT REINFORCEMENT AND ANCHOR BOLTS.
- ③ PROVIDE 1/8" PER FOOT MINIMUM RUNNING SLOPE TO DAYLIGHT. CAP WITH RODENT SCREEN.

ABUTMENT NOTES:

VERIFY ABUTMENT LAYOUT, INCLUDING ANCHOR BOLT LOCATIONS, WITH BRIDGE SUPPLIER PRIOR TO CONSTRUCTION.

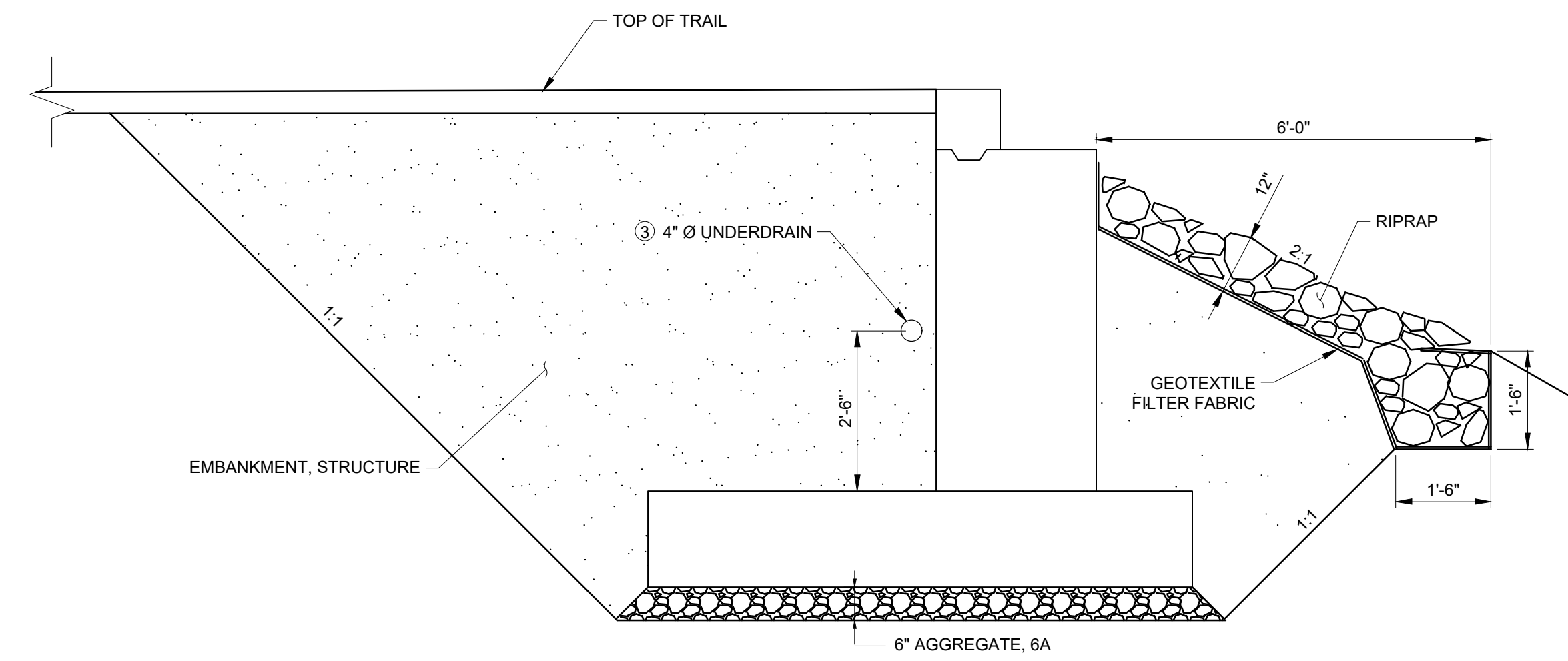
PLACE CONCRETE WITHOUT CONSTRUCTION JOINTS EXCEPT AS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER.

FORM ALL EXPOSED CONCRETE EDGES WITH A 1/2" OR 3/4" CHAMFER UNLESS OTHERWISE NOTED.

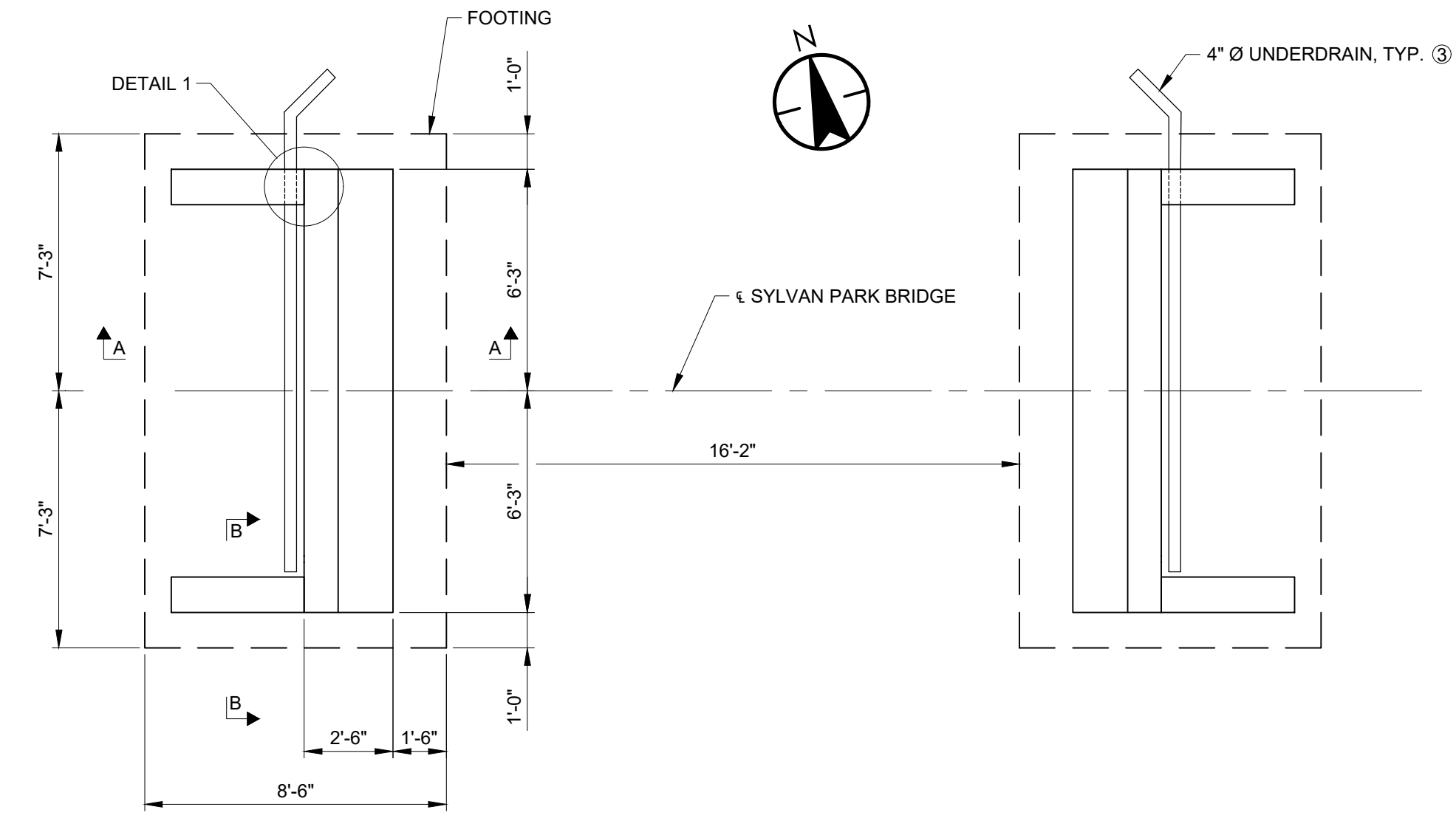
PLACE REINFORCEMENT WITH A MINIMUM 2" CLEARANCE TO FACE OF CONCRETE UNLESS SHOWN OTHERWISE.

BACKFILL ABUTMENT WITH EQUAL LIFTS ON EACH SIDE.

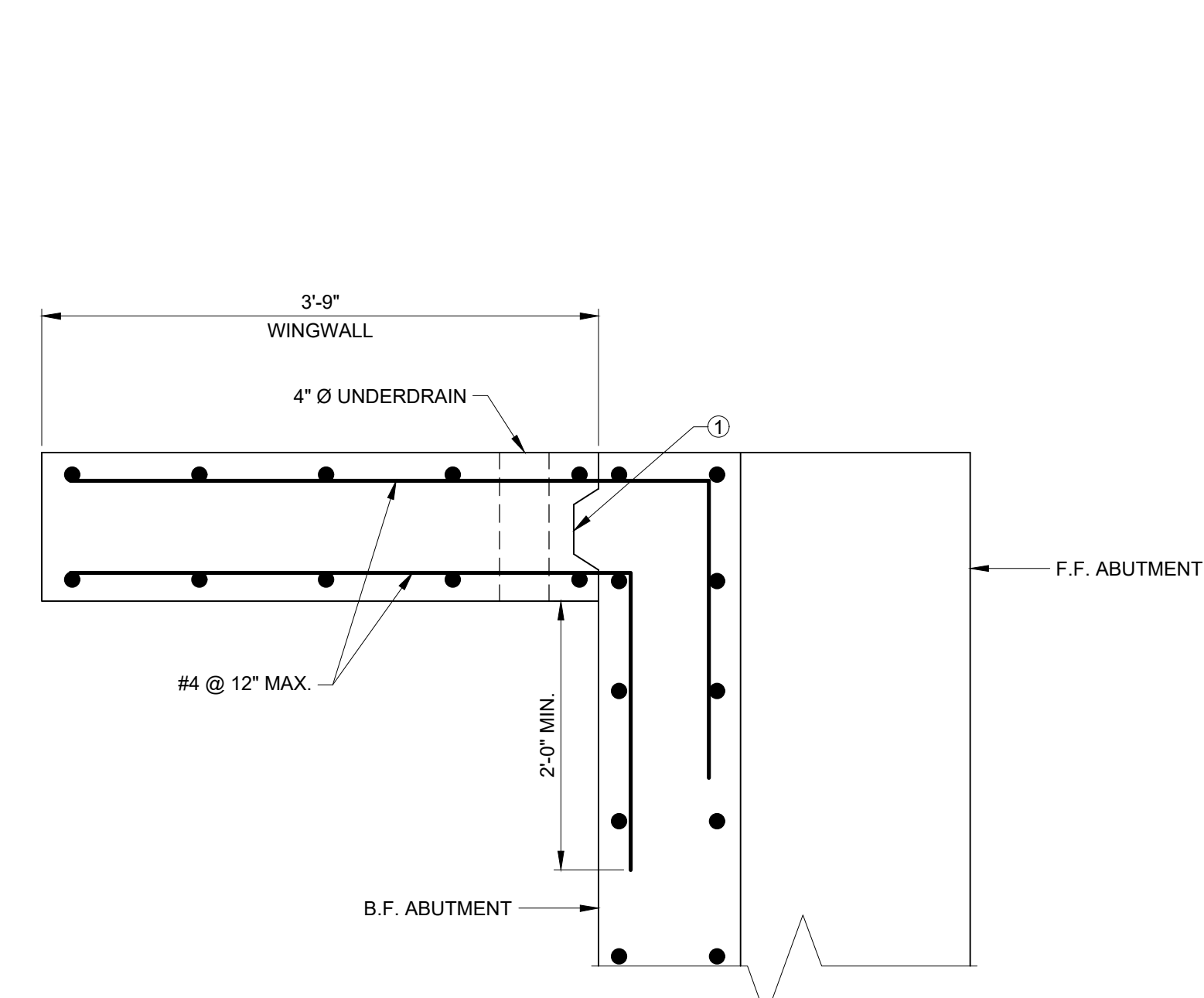
THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND BAR LISTS OF ALL REINFORCEMENT MATERIALS TO BE FURNISHED AND INSTALLED. SHOW BAR SIZES, SPACINGS, LOCATIONS, BENDING DETAILS, AND QUANTITIES REQUIRED.



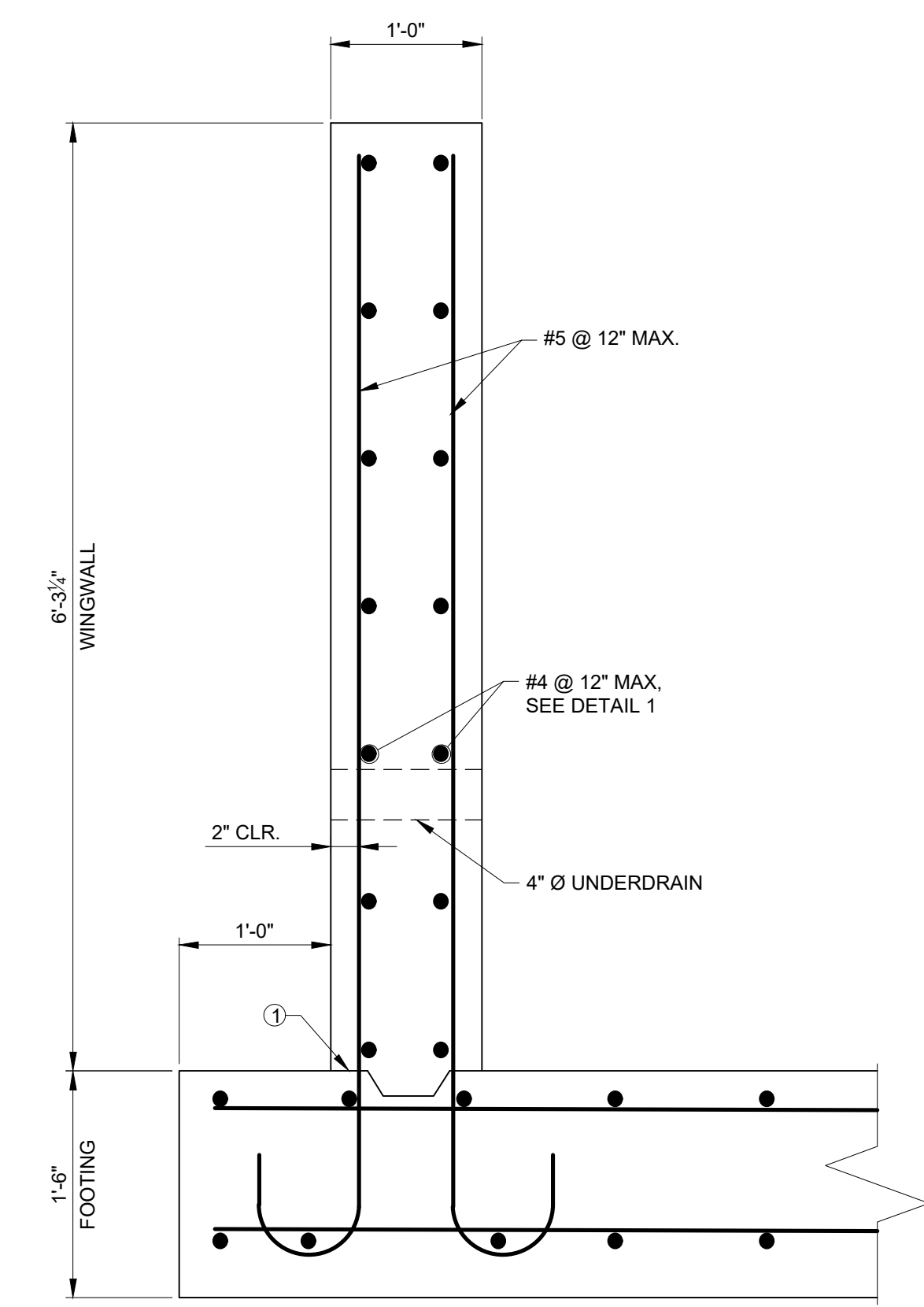
COMPLETED SECTION



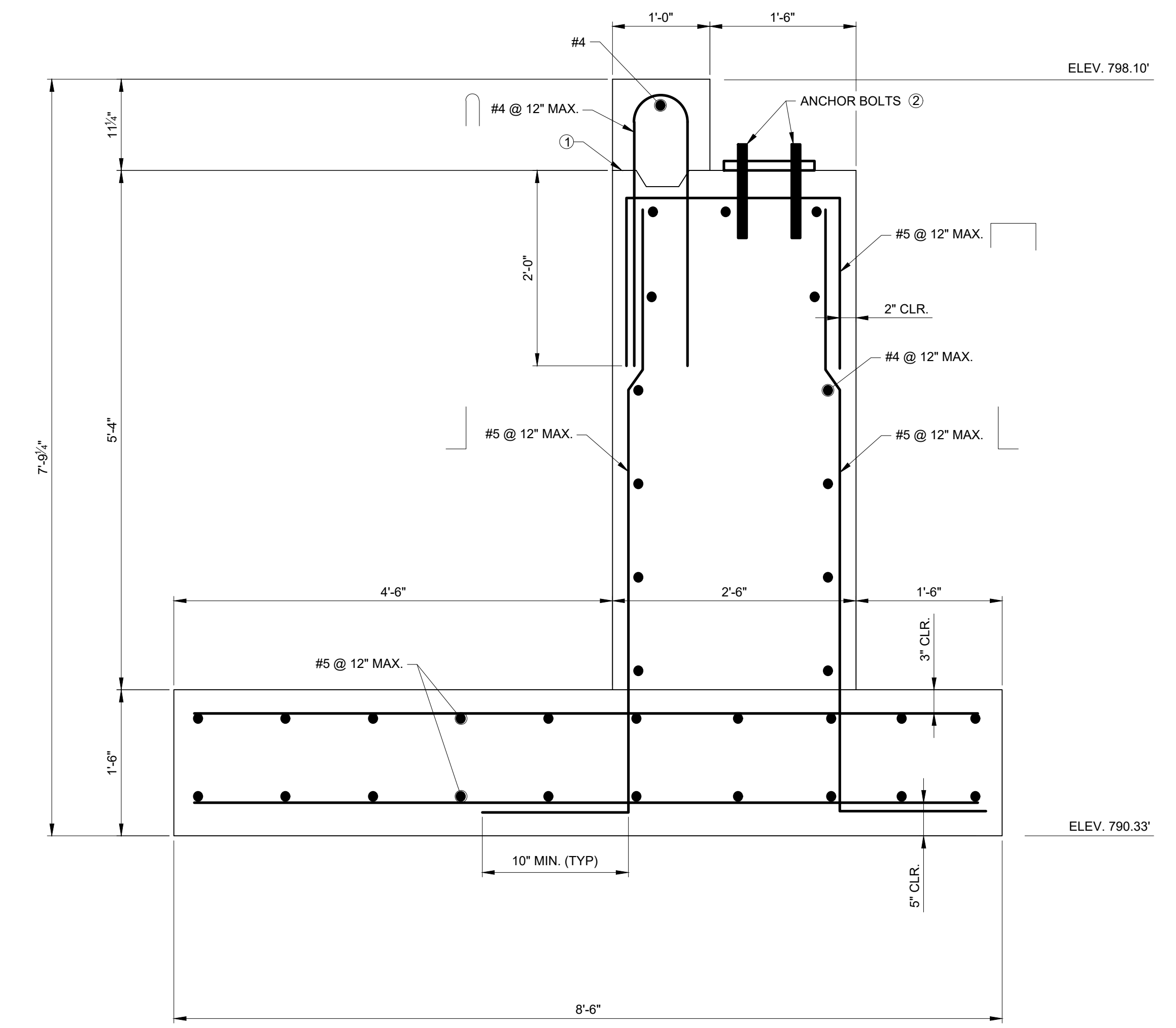
BRIDGE ABUTMENT PLAN



DETAIL 1 - WINGWALL PLAN



SECTION B-B



SECTION A-A

D	BID SET	CW	MP	2024.08.16
C	PERMIT SET	CW	MP	2024.05.15
B	REVIEW SET	CW	MP	2024.03.15
A	PRELIMINARY PLANS	CW	MP	2023.11.10
Issued		By	Appd	YYYY.MM.DD
File Name: 153906C-105		JA	CW	MP
		Dwn.	Dgln.	Chkd.
				YYYY.MM.DD

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NOTE:  
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MESSAGE PRIOR TO CONSTRUCTION.

Client/Project  
CITY OF ANN ARBOR

ANN ARBOR PARKS  
BRIDGE REPLACEMENT

Ann Arbor, MI

SYLVAN PARK BRIDGE  
ABUTMENT DETAILS

Project No. 2075153906 Scale:

Revision Sheet 0 of 09 Drawing No. C-105