

RICHMOND METROPOLITAN TRANSPORTATION AUTHORITY

RICHMOND EXPRESSWAY SYSTEM

CONTRACT NO. MR – 2023

ADDENDUM NO. 1

May 23, 2023
DESCRIPTION

The attached pages are issued to amend and become part of the Contract Documents.

Contractor shall acknowledge receipt of this Addendum on the Receipt of Addenda form (Contract Page RA-1). Failure to complete and include the RA-1 form in the bid package may cause bid to be found irregular.

There is no change in the date that bids are due, and no change in the contract completion date from the dates contained in the Invitation to Bid.

Invitation To Bid

All Bidders are directed to replace Page IB-1 from the Bid Documents with Addendum No. 1 Page IB-1.

This Addendum has been issued to indicate units for Bridge Repairs will be EACH.

Bid for General Construction Contract

All Bidders are directed to replace Pages P-3 and P-4 from the Bid Documents with Addendum No. 1 Pages P-3 and P-4. This Addendum has been issued to add line item (30) for “BRIDGE 68, POTENTIAL CRACK ARREST “to the Bid Tab and to delete items for Superpave Asphalt SM 9.5E (76-22) and Flexible Pave. Planing (1.5” Depth).

Special Provision Table of Contents

All Bidders are directed to replace Page SP-ii from the Bid Documents with Addendum No. 1 Page SP-ii. This Addendum has been issued to indicate Asphalt Concrete Overlay is no longer in contract (N.I.C)

ADDENDUM NO. 1
5/23/23

Special Provision Bridge Repairs

All Bidders are directed to replace Page SP-I-4 from the Bid Documents with Addendum No. 1 Page SP-I-4. This Addendum has been issued to indicate that units for Bridge Repairs will be EACH and to add line for “BRIDGE 68, POTENTIAL CRACK ARREST”.

Special Provision Asphalt Concrete Overlay

All Bidders are directed to delete SP-T, Asphalt Concrete Overlay. This item is no longer in contract. (N.I.C)

Appendix

All Bidders are directed to insert “Bridge Elevation” drawings (73 pages) from bridge inspections showing approximate locations of proposed shotcrete repairs at the end of the Appendix. It is noted that locations of the repairs and size are approximate and may vary based on field conditions at the time of repair. It is also noted that particular attention should be paid to the legend on each sheet, as existing patches are also shown and do not require repairs.

RICHMOND METROPOLITAN TRANSPORTATION AUTHORITY

RICHMOND EXPRESSWAY SYSTEM

CONTRACT NO. MR-2023

MISCELLANEOUS REPAIRS

INVITATION TO BID

The Richmond Metropolitan Transportation Authority (RMTA), 901 East Byrd Street, Suite 1120, Richmond, Virginia 23219 until 10:00 a.m. local time, will receive sealed Proposals for the above project on **Wednesday, June 14, 2023.**

Sealed bid documents will be transferred by RMTA staff to the **Powhite South-Administration Building**, located at 6500 Powhite Parkway, Richmond, VA 23225 where the bids will be publicly opened and read at 11:00 a.m. local time. *All Virginia executive orders, and CDC guidance related to COVID-19 must be adhered to at all times while on the RMTA premises.*

The work under this contract shall be completed no later than May 31, 2024.

The principal items of work and approximate quantities are as follows:

<u>Item:</u>	<u>Quantity:</u>	<u>Unit:</u>
Shotcrete, (Standard)	52	S.F.
Shotcrete, (Elevated)	353	S.F.
Shotcrete, (Over Water)	1174	S.F.
Bridge 9N, Floorbeam 30, Remove Laminar Defect	1	EA.
Bridge 10S, East Abutment, NE Bearing, Remove and Replace Bearing Sole Plate Weld	1	EA.
Bridge 63, Span 17, Girder 6, Remove Small Welded Attachment	1	EA.
Bridge 63, Pier 22, Unit 23 Girder 1 Bearing Realignment	1	EA.
Bridge 64, Pier 5, Unit 5, Girder 4 & Pier 7, Unit 7, Girder 4, Remove and Repair Bearing Sole Plate Weld	1	EA.
Bridge 65, Pier 16, Unit 16, Girder 1 and Pier 19, Girder 4, Unit 20, Remove and Replace Bearing Sole Plate	1	EA.
Bridge 68, Pier 19, Unit 2, G1-G3 and Pier 3, Unit 6, G1-G4 Bearing Realignment	1	EA.
Repair Asphalt Concrete Pavement Cracks	50,000	L.F.
Debris Removal – James River Bridge (Rt. 76)	1	L.S.

**RMTA
MR-2023 Bid Tab**

(_____) (INSERT BIDDER FIRM NAME HERE)

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	2020 SPECIFICATION
25	BRIDGE 63, SPAN 17, GIRDER 6, REMOVE SMALL WELDED ATTACHMENT	EA	1			SP-I
26	BRIDGE 63, PIER 22, UNIT 23 GIRDER 1 BEARING REALIGNMENT	EA	1			SP-I
27	BRIDGE 64, PIER 5, UNIT 5, GIRDER 4 & PIER 7, UNIT 7, GIRDER 4, REMOVE AND REPAIR BEARING SOLE PLATE WELD	EA	2			SP-I
28	BRIDGE 65, PIER 16, UNIT 16, GIRDER 1 AND PIER 19, GIRDER 4, UNIT 20, REMOVE AND REPLACE BEARING SOLE PLATE WELD	EA	2			SP-I
29	BRIDGE 68, PIER 19, UNIT 2, G1-G3 AND PIER 3, UNIT 6, G1-G4 BEARING REALIGNMENT	EA	7			SP-I
30	BRIDGE 68, POTENTIAL CRACK ARREST	EA	1			SP-I
31	BRIDGE 9N, FLOORBEAM 30, REMOVE LAMINAR DEFECT	EA	1			SP-I
32	BRIDGE 10S, EAST ABUTMENT, NE BEARING, REMOVE AND REPLACE BEARING SOLE PLATE WELD	EA	1			SP-I
33	TOPSOIL, CLASS B	CY	30			244/602
34	REGULAR SEED	LB	100			244/603
35	FERTILIZER (15-30-15)	TON	1			244/603
36	LIME	TON	1			244/603
37	CONCRETE COATING	SF	52			SP-R
38	CLEAN MANHOLE	EA	1			ATTD/SP-H
39	TYPE A PAVEMENT LINE MARKING 6"	LF	9800			704/SP-P
40	TYPE A PAVEMENT LINE MARKING 12"	LF	2800			704/SP-P
41	TYPE B CLASS VI PAVEMENT LINE MARKING 6"	LF	1070			704/SP-P
42	TYPE B CLASS VI PAVEMENT LINE MARKING 12"	LF	450			704/SP-P
43	PAVEMENT MESSAGE MARK "E-ZPass"	EA	3			704/SP-P
44	PAVEMENT MESSAGE MARK "ONLY"	EA	3			704/SP-P

**RMTA
MR-2023 Bid Tab**

(_____) (INSERT BIDDER FIRM NAME HERE)

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	2020 SPECIFICATION
45	CRUSHED AGGREGATE NO. 21A OR 21B	TON	5			208
46	COARSE AGGREGATE NO.57	TON	5			203
47	AGGREGATE MATERIAL NO.1	TON	5			203
48	DRY RIPRAP CLASS I	TON	5			204
49	FLOWABLE BACKFILL	CY	3			509/SP-J
50	DEBRIS REMOVAL AT THE JAMES RIVER BRIDGE	LS	1			SP-K
51	DRAINAGE STRUCTURE REPAIRS	EA	5			SP-Q
52	RAILWAY COORDINATION SERVICE, BRIDGE 8	LS	1			107.19/SP-U

(SIGN HERE)

(INSERT HERE)

Signature of Owner, Partner, or Corporate Officer:

Title:

TOTAL: _____

CONTENTS

XVII. DRAINAGE STRUCTURE REPAIRS..... SP-Q

XVIII. CONCRETE COATING SP-R

XIX. CONCRETE SIDEWALK SP-S

XX. ~~ASPHALT CONCRETE OVERLAY~~ (N.I.C)..... ~~SP-T~~

XXI. ASPHALT MATERIAL PRICE ADJUSTMENT SP-U

XXII. CONSTRUCTION AGREEMENT (CSX Railroad Agreement) SP-V

XXIII. APPENDIX (provided under a separate cover) SP-Y

Measurement and Payment

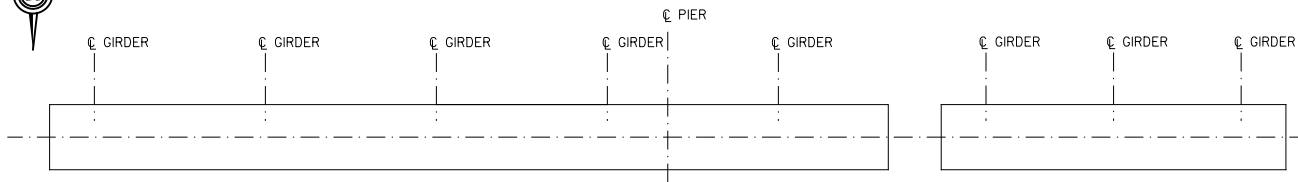
The pay items for the repairs will be paid for at the contract bid price at each location of bridge steel repairs. This price shall include all materials, labor, tools, equipment, and incidentals necessary to complete the repairs including access to the site, jacking and shoring procedures, removal of existing steel, steel fabrication, cutting, grinding, steel installation, welding, labor, shop and field cleaning, priming and painting, ultrasonic testing (where noted on plans), and shop coating of steel plates.

This price shall also include review fees; submittals; and preparation of all plans, drawings, schedules, and narratives necessary for describing the Contractor's means and methods required to perform the work. This price shall include any requirements to remain in compliance with all environmental laws and regulations for work near or in the James River and Kanawha Canal. Legal offsite disposal of all waste materials shall be incidental to this item.

Any repairs which may require coordination with railroads shall be performed in accordance with the Supplemental Specifications, Section 107.19 Railway-Highway Provisions.

Payment will be made under:

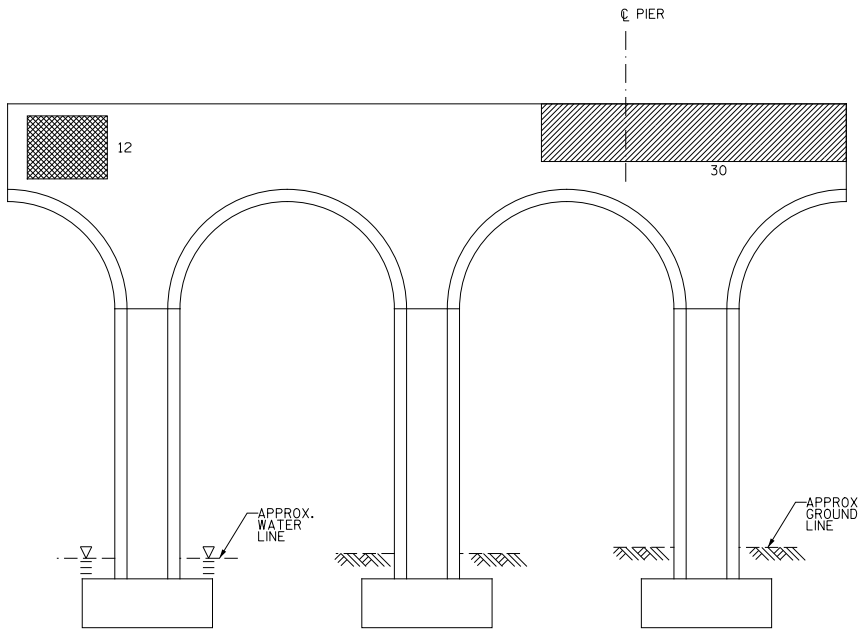
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	SPECIFICATION
1	BRIDGE 63, SPAN 17, GIRDER 6, REMOVE SMALL WELDED ATTACHMENT	EA	1			
2	BRIDGE 63, PIER 22, UNIT 23, GIRDER 1, BEARING REALIGNMENT	EA	1			
3	BRIDGE 64, PIER 5, UNIT 5, GIRDER 4, AND PIER 7, UNIT 7, GIRDER 4, REMOVE AND REPLACE BEARING SOLE PLATE WELD	EA	2			
4	BRIDGE 65, PIER 16, UNIT 16, GIRDER 1 AND PIER 19, GIRDER 4, UNIT 20, REMOVE AND REPLACE BEARING SOLE PLATE WELD	EA	2			
5	BRIDGE 68, PIER 19, UNIT 2, G1-G3 AND PIER 3, UNIT 6, G1-G4 BEARING REALIGNMENT	EA	7			
6	BRIDGE 68, PIER 2, POTENTIAL CRACK ARREST	EA	1			
7	BRIDGE 9N, FLOORBEAM 30, REMOVE LAMINAR DEFECT	EA	1			
8	BRIDGE 10S, EAST ABUTMENT, NE BEARING, REMOVE AND REPLACE BEARING SOLE PLATE WELD	EA	1			



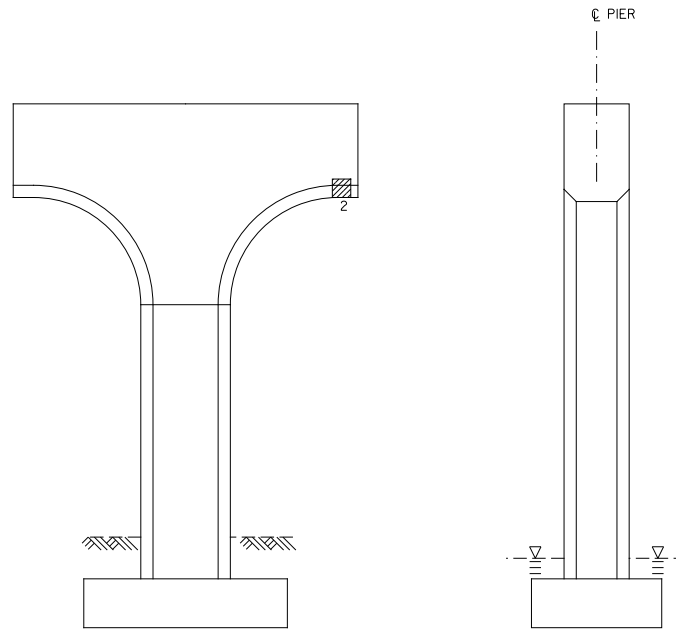
TOP PLAN OF CAP

FIGURE 1

- LEGEND**
- TOTAL
 - 12 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 32 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 12 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
(LOOKING WEST)

NO.	DATE	DESCRIPTION

REVISIONS

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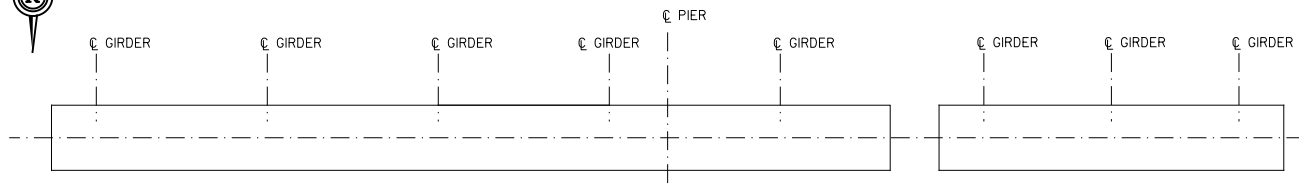
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Richmond Metropolitan Transportation Authority

BRIDGE 8S
PLAN AND ELEVATION
PIER 1

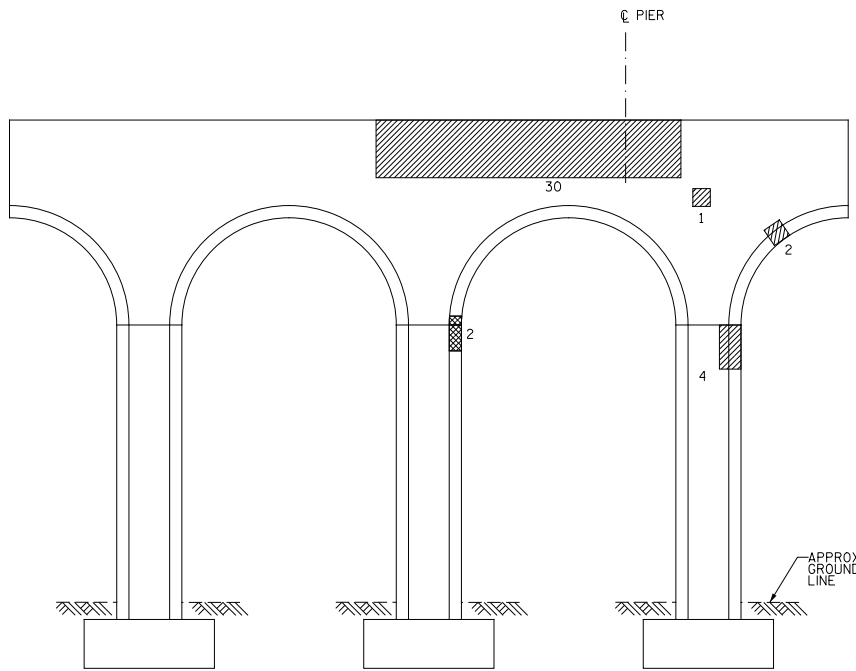
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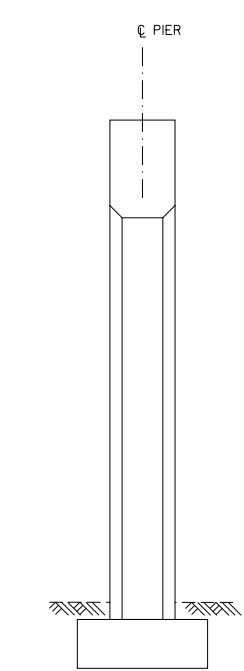
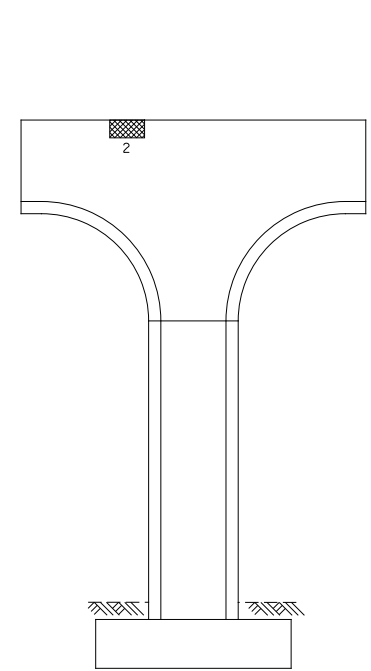
TOP PLAN OF CAP

FIGURE 3

- LEGEND**
- TOTAL
 - 4 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 37 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 3 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
(LOOKING WEST)

NO.	REVISIONS

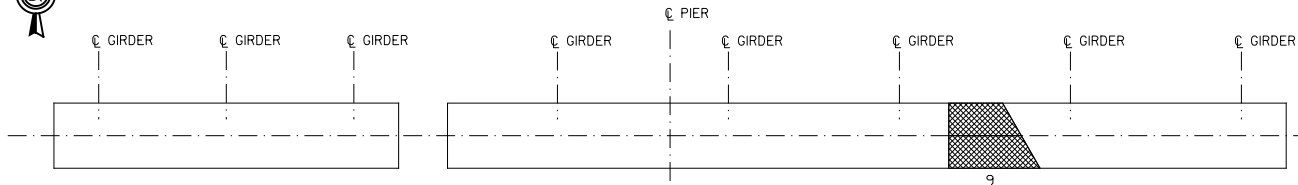


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BRIDGE 8S
PLAN AND ELEVATION
PIER 2

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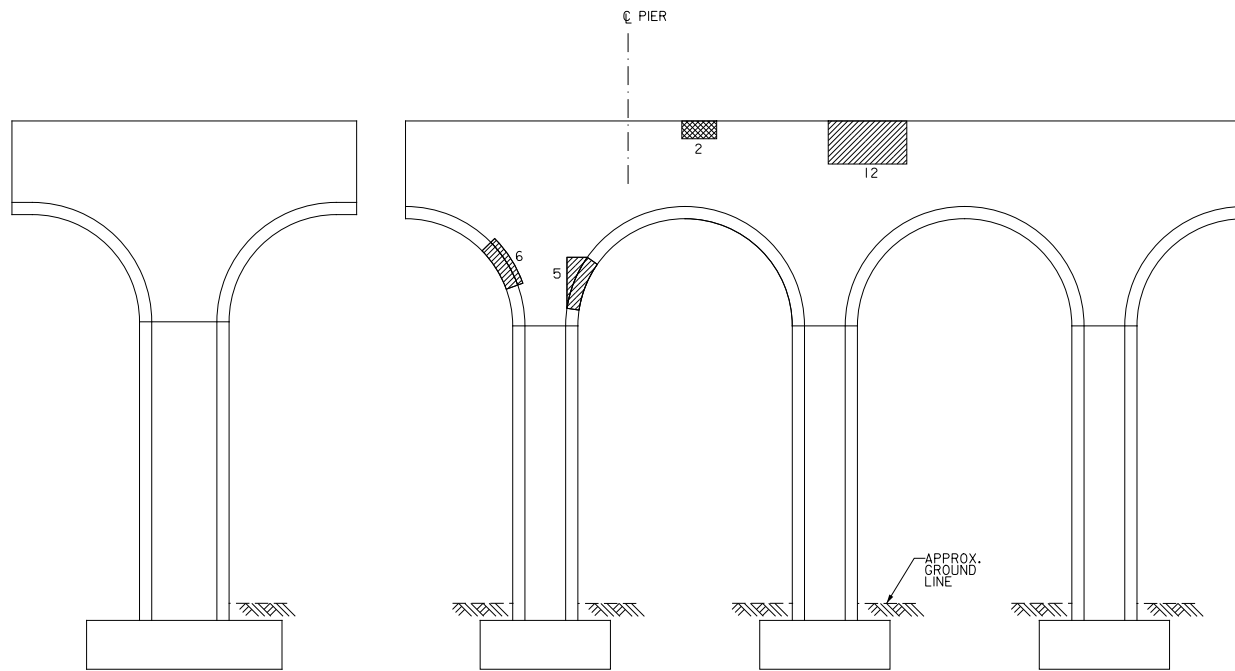
TOP PLAN OF CAP

FIGURE 4

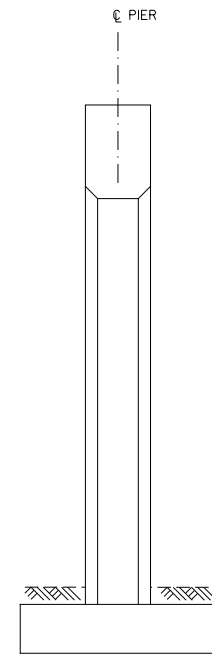
LEGEND

TOTAL		DENOTES CRACK
11 SF -		DENOTES DELAM
		DENOTES SPALL
		DENOTES HEAVY ABRASION
23 SF -		DENOTES PATCH
7 LF -	Rx	EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 16 SF



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

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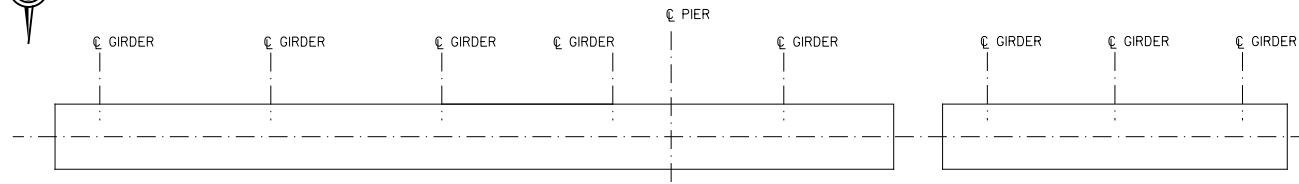
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BRIDGE 8S
PLAN AND ELEVATION
PIER 2

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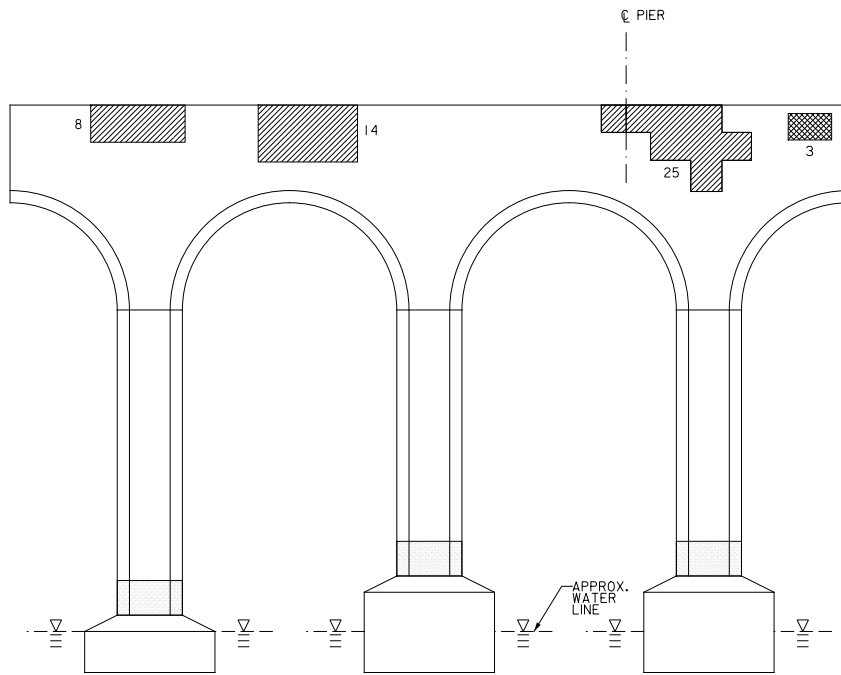


FIGURE 5

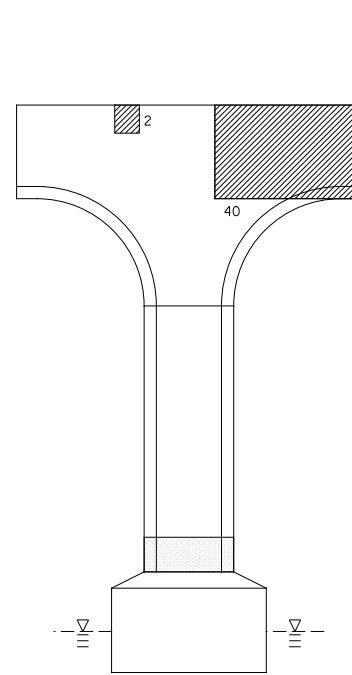


TOP PLAN OF CAP

- LEGEND**
- TOTAL
 - 3 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 87 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
 - TOTAL PIER APPROXIMATE DETERIORATED AREA - 3 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
(LOOKING WEST)

Richmond Metropolitan Transportation Authority



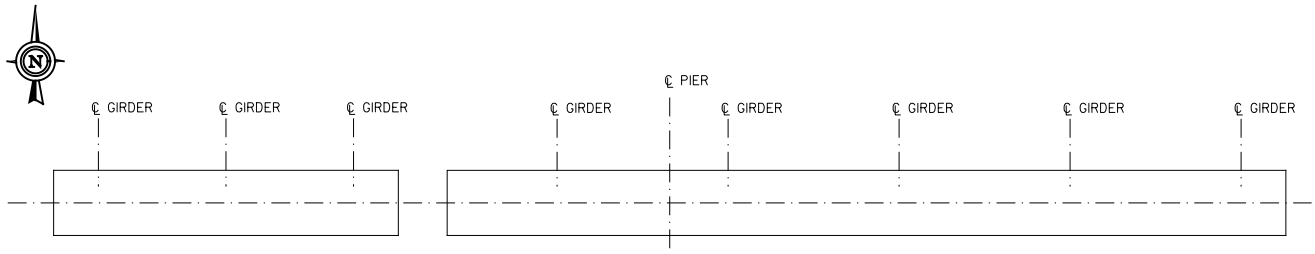
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BRIDGE 8S
PLAN AND ELEVATION
PIER 3

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NO.	DATE	REVISIONS

FIGURE 6

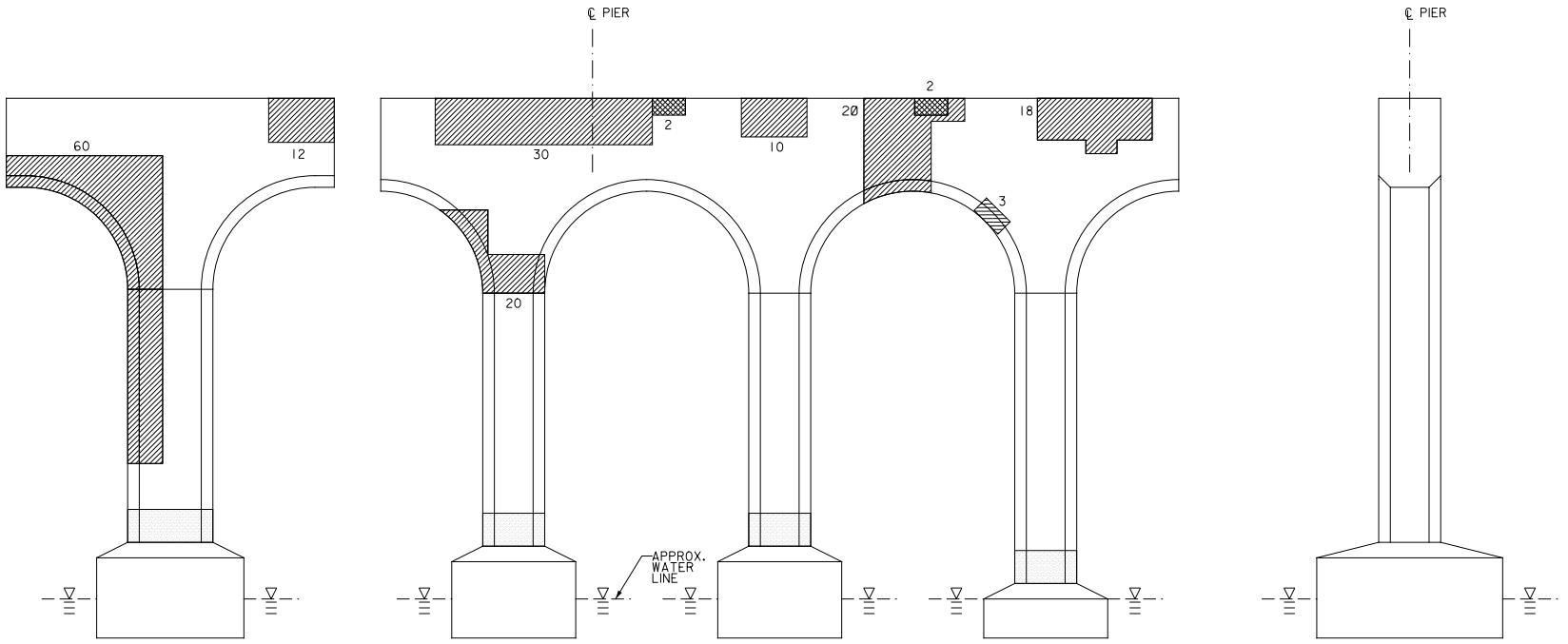


LEGEND

- ~ DENOTES CRACK
- [Cross-hatched] DENOTES DELAM
- [Horizontal lines] DENOTES SPALL
- [Vertical lines] DENOTES HEAVY ABRASION
- [Diagonal lines] DENOTES PATCH
- Rx EXPOSED REINFORCING

TOTAL
 4 SF -
 173 SF -

TOTAL PIER APPROXIMATE
 DETERIORATED AREA - 4 SF



NO.	REVISIONS

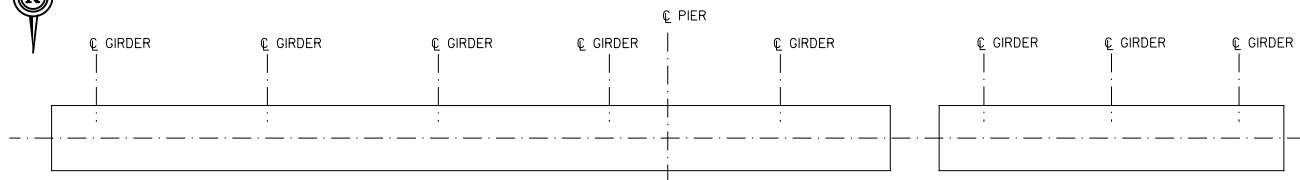
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BRIDGE 8S
 PLAN AND ELEVATION
 PIER 3

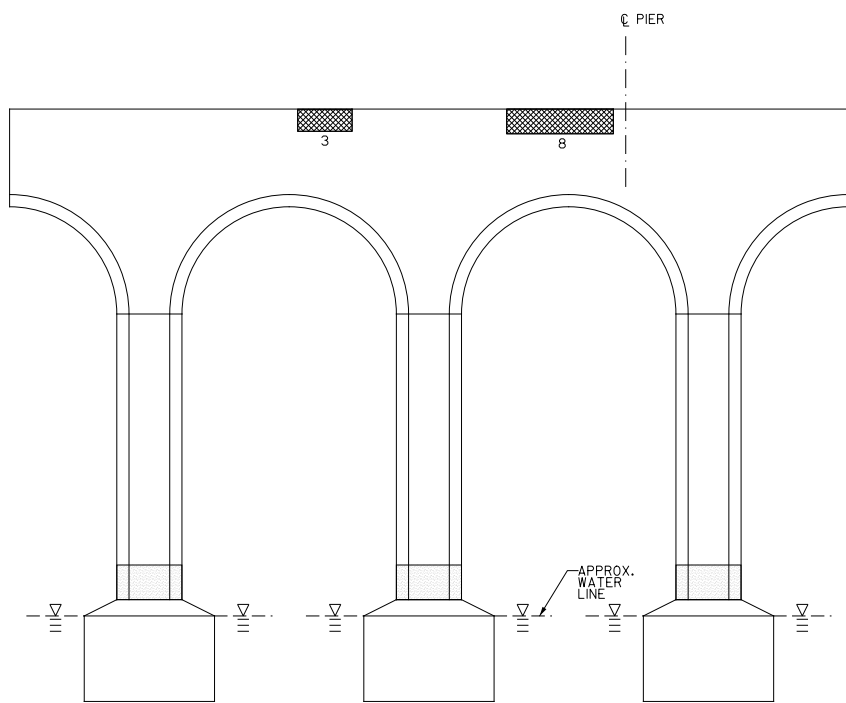
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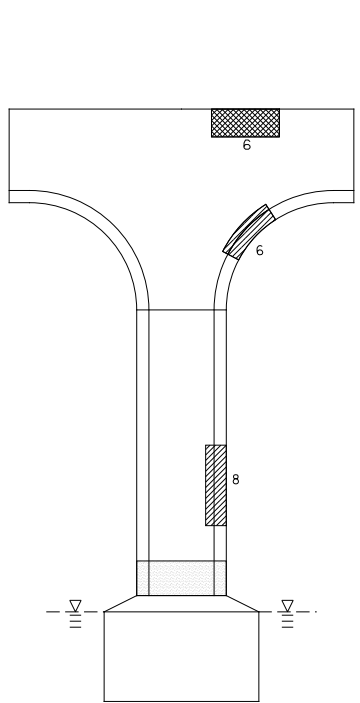
TOP PLAN OF CAP

FIGURE 7

- LEGEND**
- TOTAL 17 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 14 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 4 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
(LOOKING WEST)

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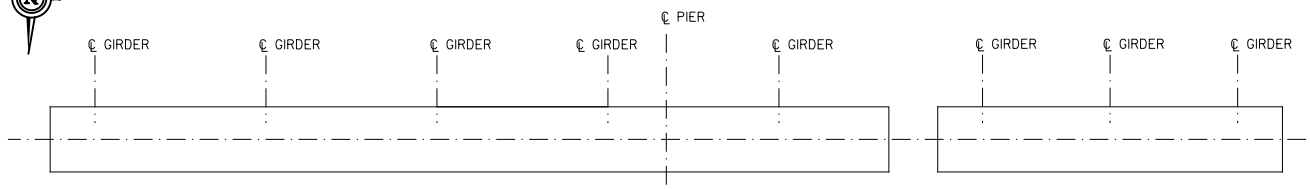
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BRIDGE 8S
PLAN AND ELEVATION
PIER 4

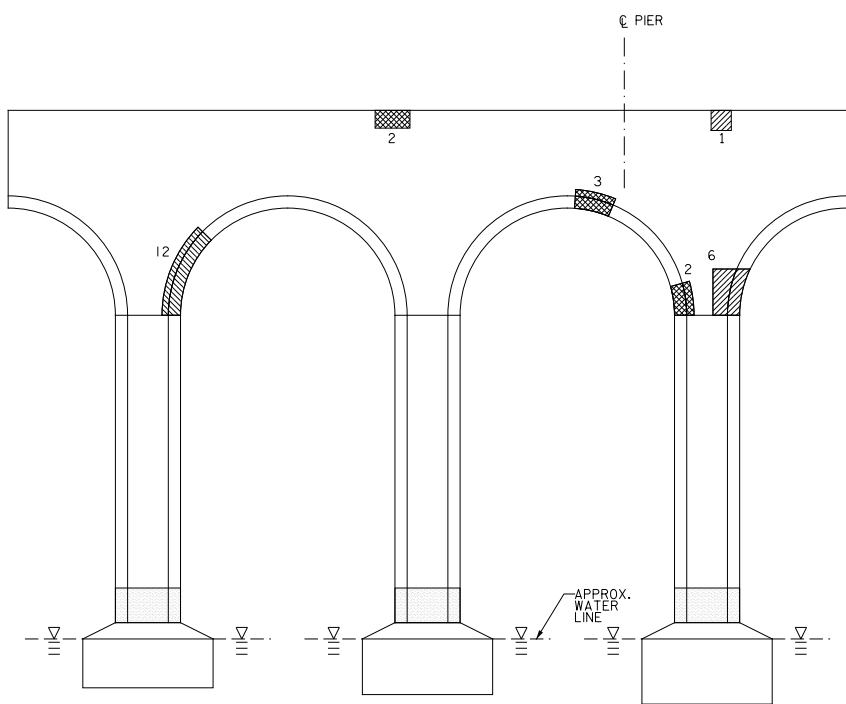
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FIGURE 9

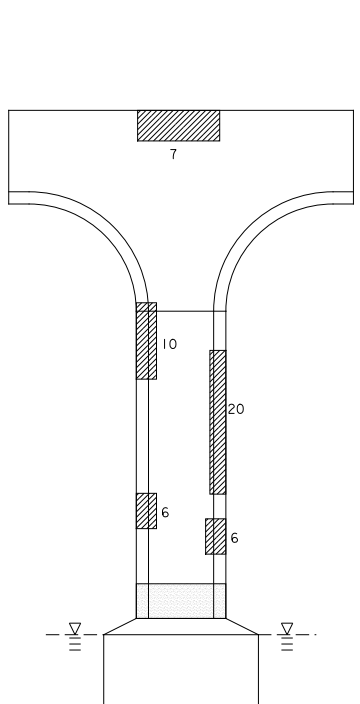


TOP PLAN OF CAP

- LEGEND**
- TOTAL
 - 7 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 68 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
 - TOTAL PIER APPROXIMATE DETERIORATED AREA - 8 SF



NORTH FACE ELEVATION (LOOKING SOUTH)



EAST END VIEW (LOOKING WEST)

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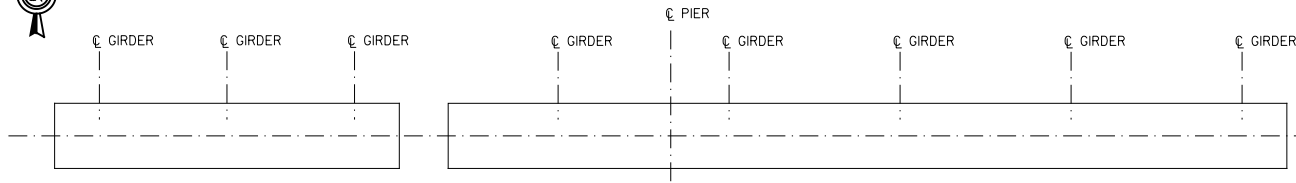


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BRIDGE 8S
PLAN AND ELEVATION
PIER 5

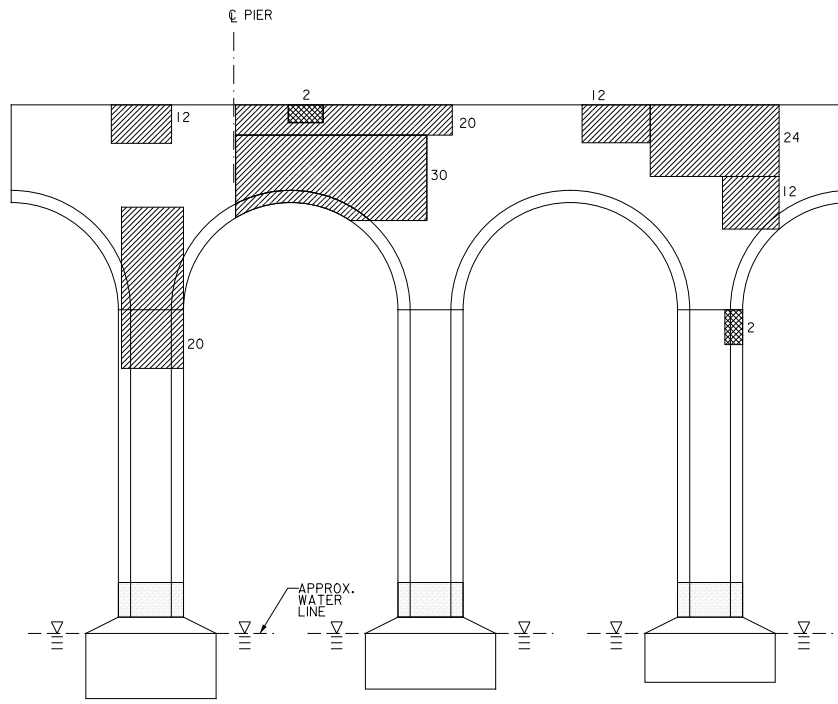
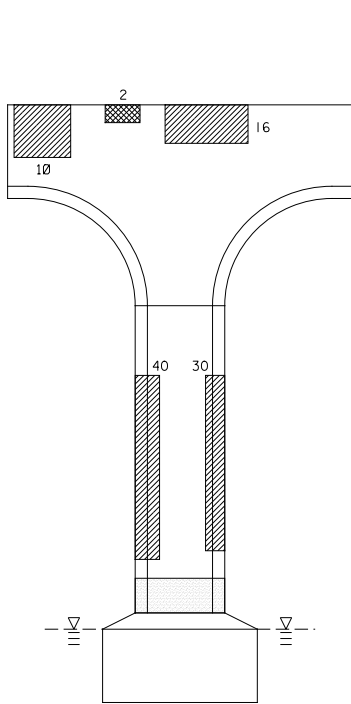
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FIGURE 10

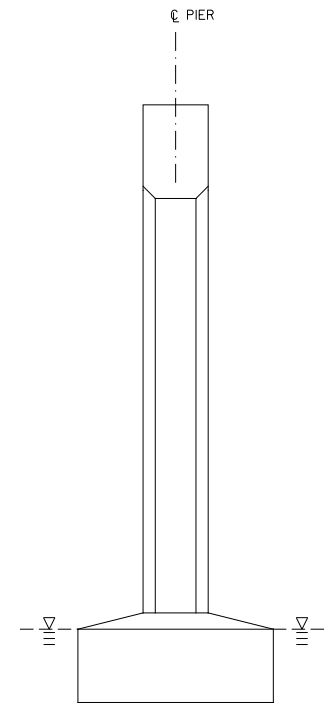


TOP PLAN OF CAP

- LEGEND**
- TOTAL
 - 6 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 216 SF - DENOTES PATCH
 - EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 8 SF



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

NO.	DATE	REVISIONS

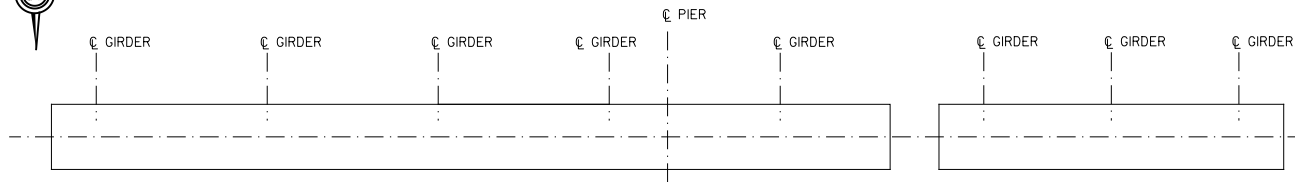


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BRIDGE 8S
PLAN AND ELEVATION
PIER 5

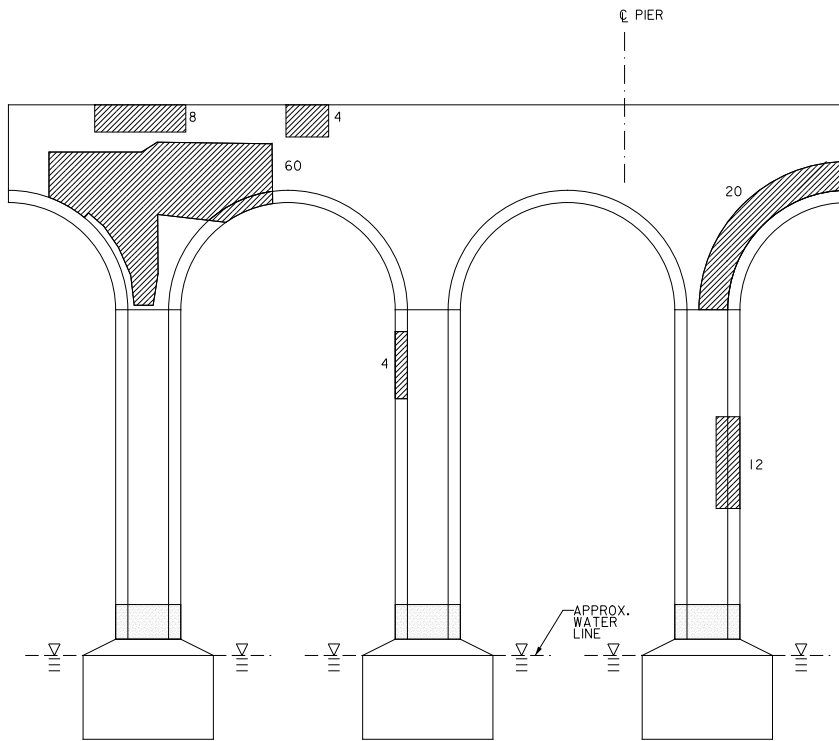
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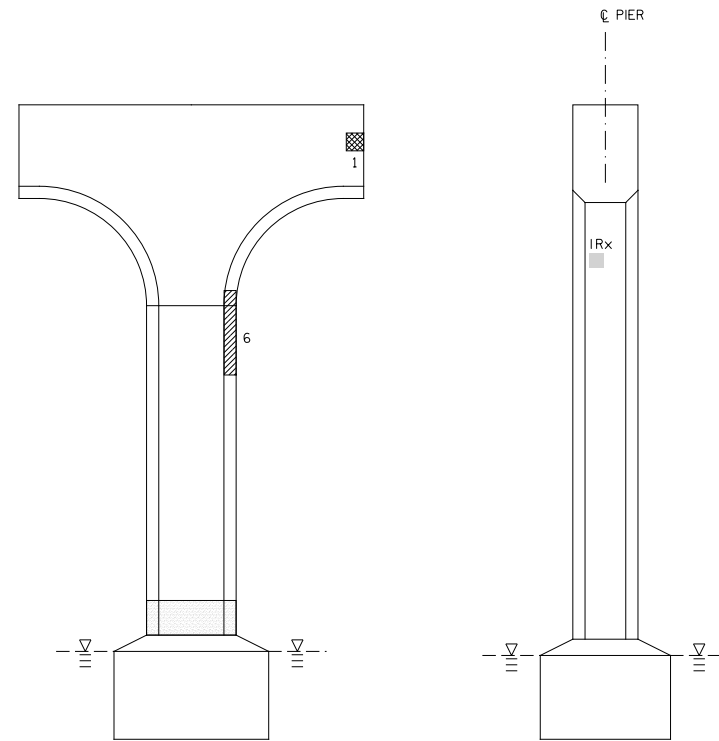
TOP PLAN OF CAP

FIGURE 11

- LEGEND**
- TOTAL DENOTES CRACK
 - 1 SF - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 114 SF - DENOTES PATCH
 - 1 SF - R_x EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 1 SF



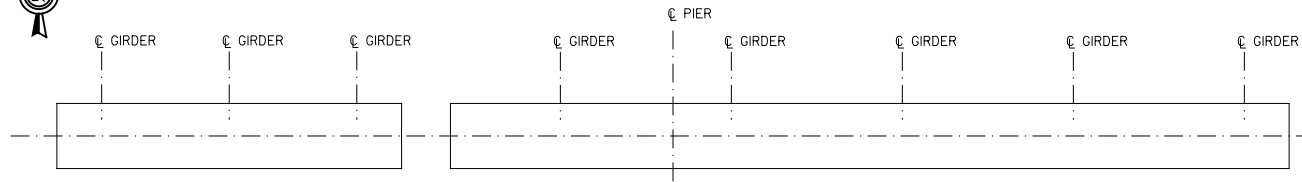
NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
(LOOKING WEST)

NO.	DATE	REVISIONS

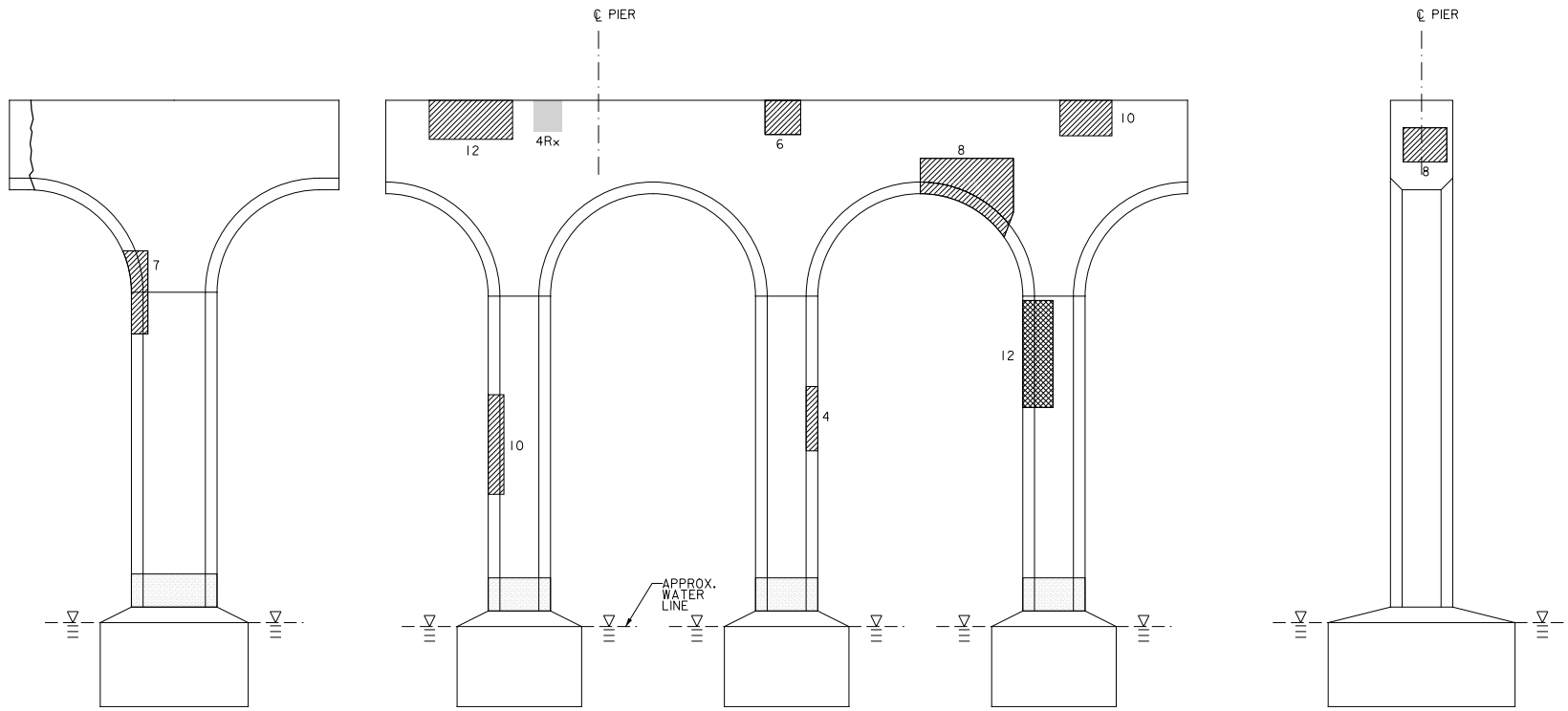




TOP PLAN OF CAP

FIGURE 12

- LEGEND**
- TOTAL 12 - DENOTES CRACK
 - 12 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 65 SF - DENOTES PATCH
 - 4 SF - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 4 SF



SOUTH FACE ELEVATION
(LOOKING NORTH)

WEST END VIEW
(LOOKING EAST)

Richmond Metropolitan Transportation Authority

BRIDGE 8S
PLAN AND ELEVATION
PIER 6

HNTB

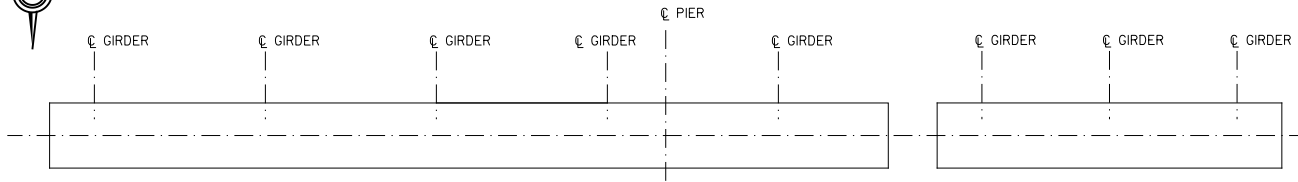
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NO.	REVISIONS

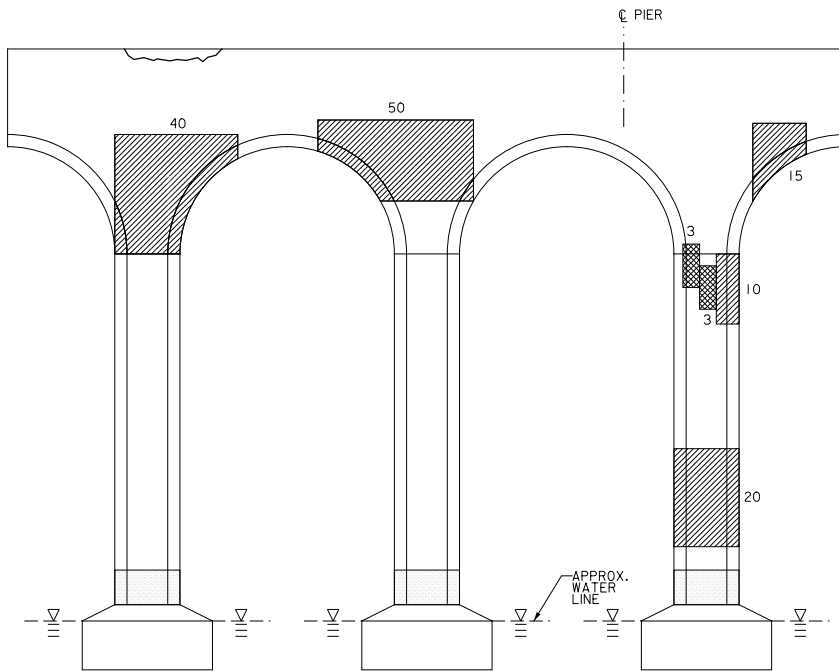


FIGURE 13

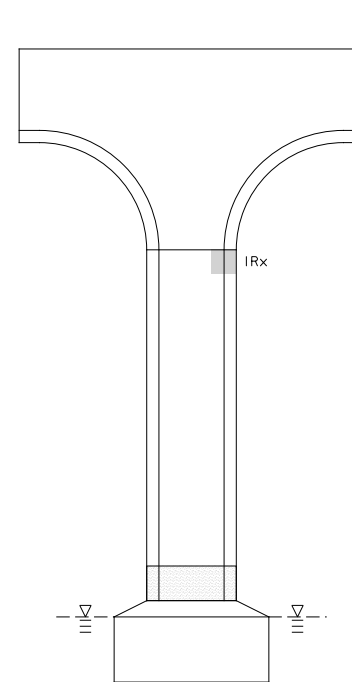


TOP PLAN OF CAP

- LEGEND**
- TOTAL
 - 6 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - DENOTES PATCH
 - 135 SF -
 - 1 SF - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 7 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
(LOOKING WEST)

NO.	REVISIONS

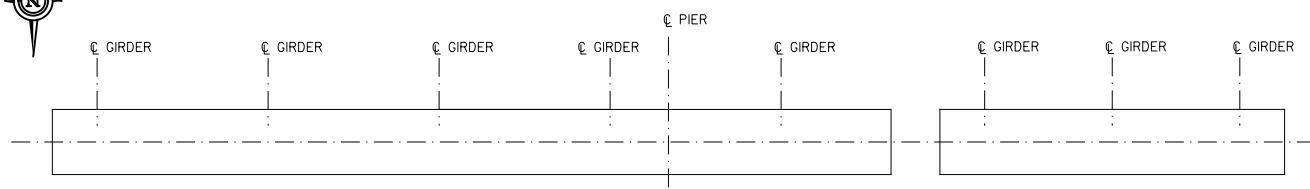
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PLAN AND ELEVATION
PIER 7

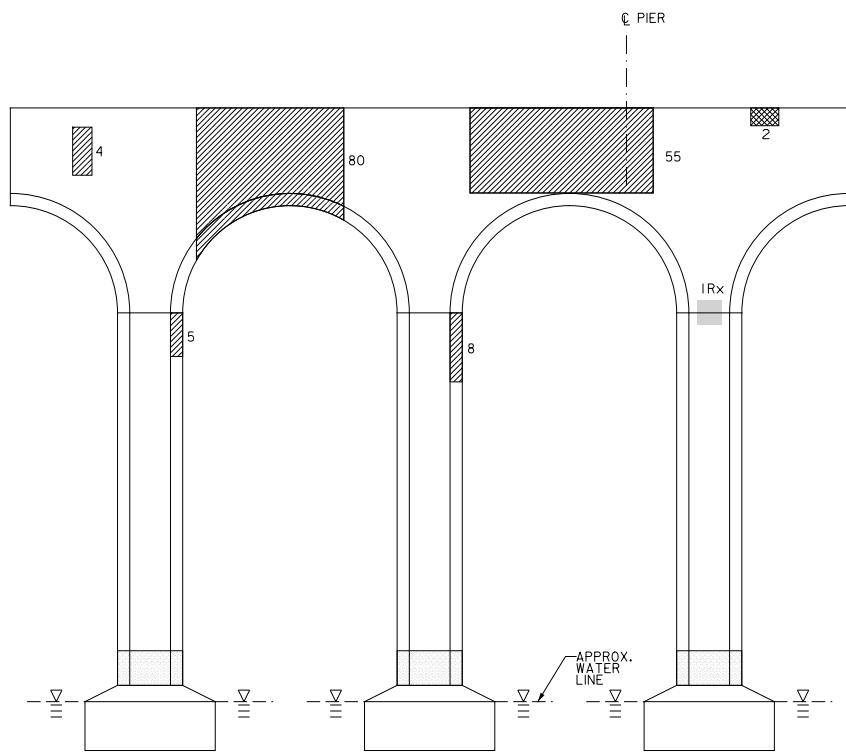
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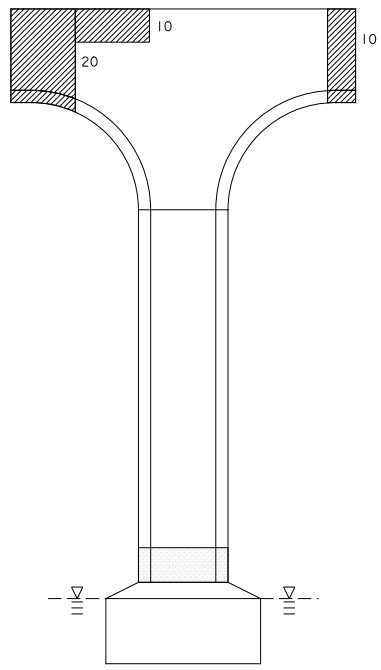
TOP PLAN OF CAP

FIGURE 15

- LEGEND**
- 2 SF - [Wavy line symbol] DENOTES CRACK
 - [Cross-hatched symbol] DENOTES DELAM
 - [Horizontal line symbol] DENOTES SPALL
 - [Vertical line symbol] DENOTES HEAVY ABRASION
 - [Diagonal line symbol] DENOTES PATCH
 - 1 SF - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 16 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
(LOOKING WEST)

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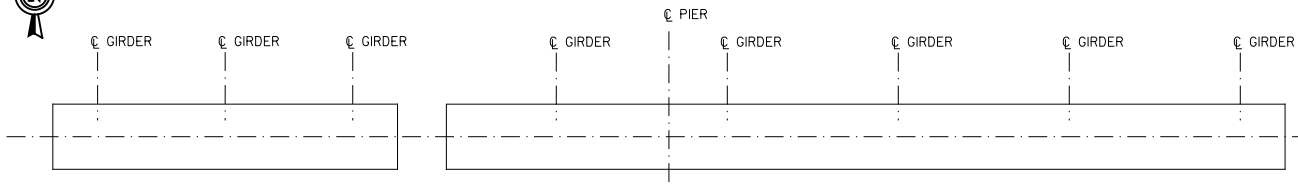
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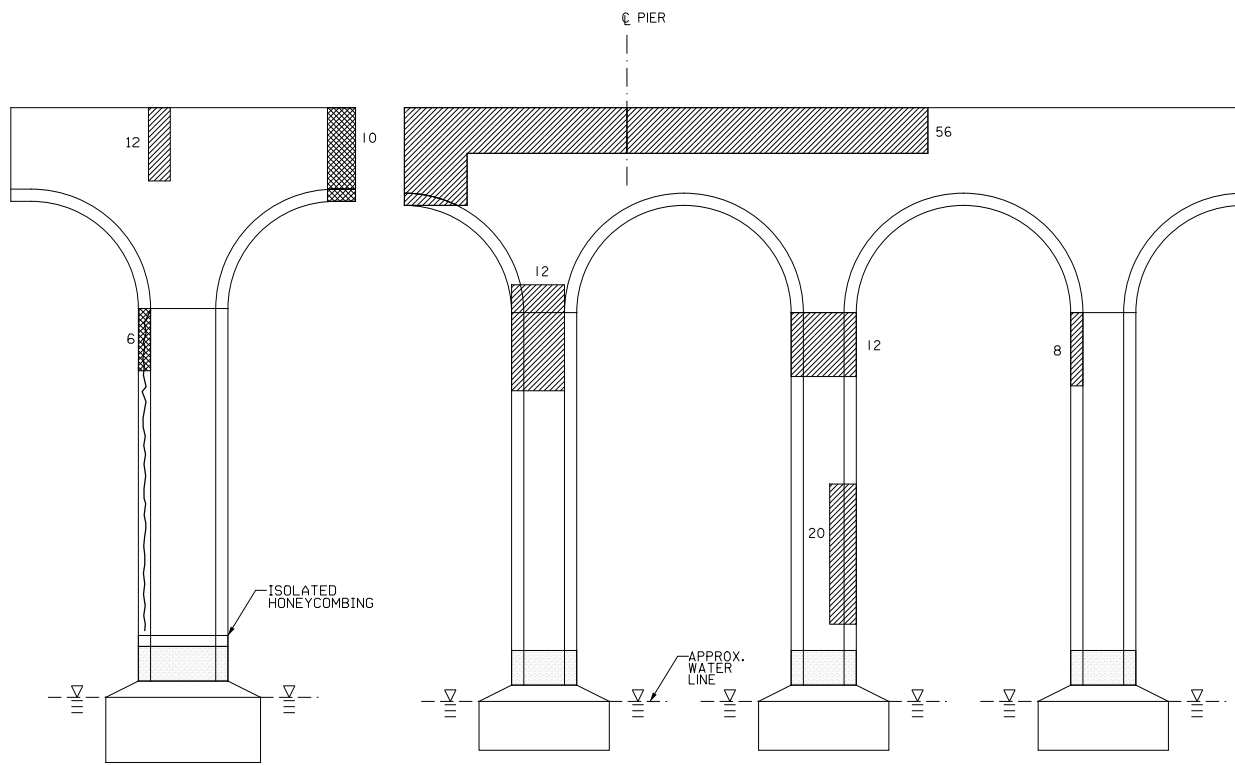


FIGURE 16

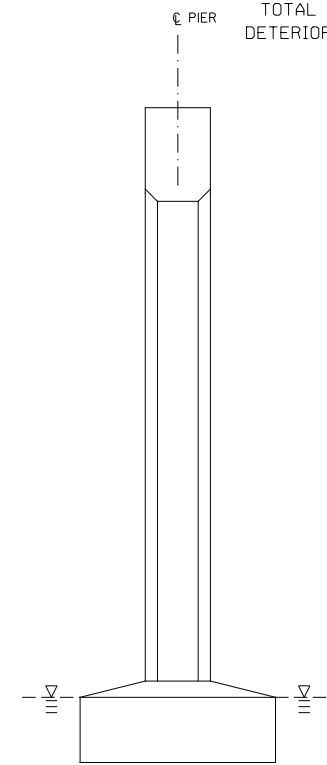


TOP PLAN OF CAP

- LEGEND**
- ~ DENOTES CRACK
 - [Cross-hatched] DENOTES DELAM
 - [Diagonal lines /] DENOTES SPALL
 - [Diagonal lines \] DENOTES HEAVY ABRASION
 - [Horizontal lines] DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL
 16 SF -
 110 SF -
- TOTAL PIER APPROXIMATE
 DETERIORATED AREA - 15 SF



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

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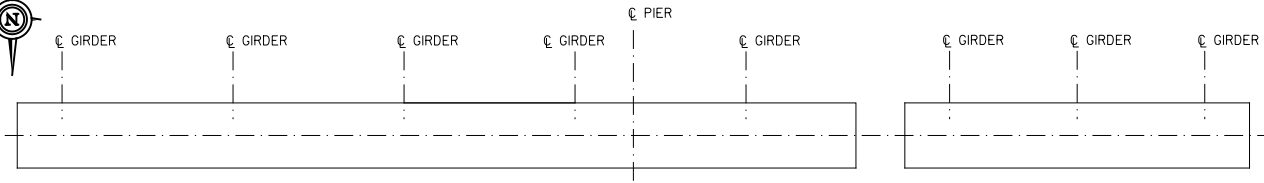
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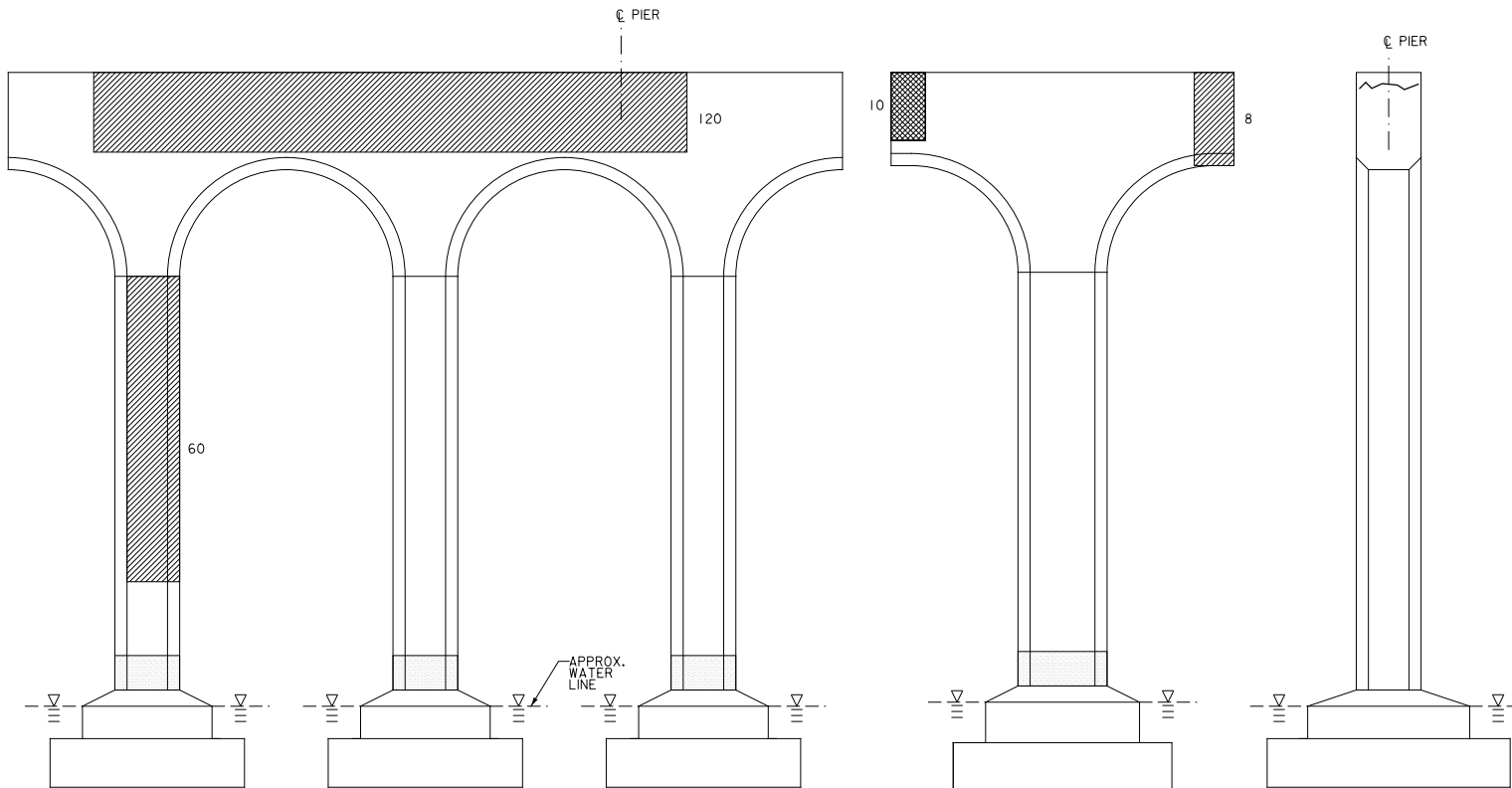
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TOP PLAN OF CAP

FIGURE 19

- LEGEND**
- TOTAL
 - 10 - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - DENOTES PATCH
 - 188 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
 - TOTAL PIER APPROXIMATE
DETERIORATED AREA - 0 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)

EAST END VIEW
(LOOKING WEST)

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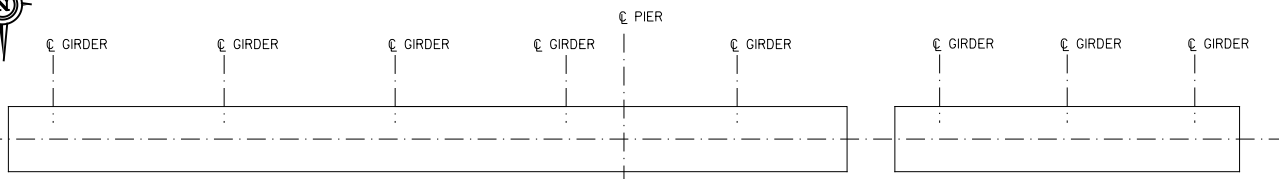
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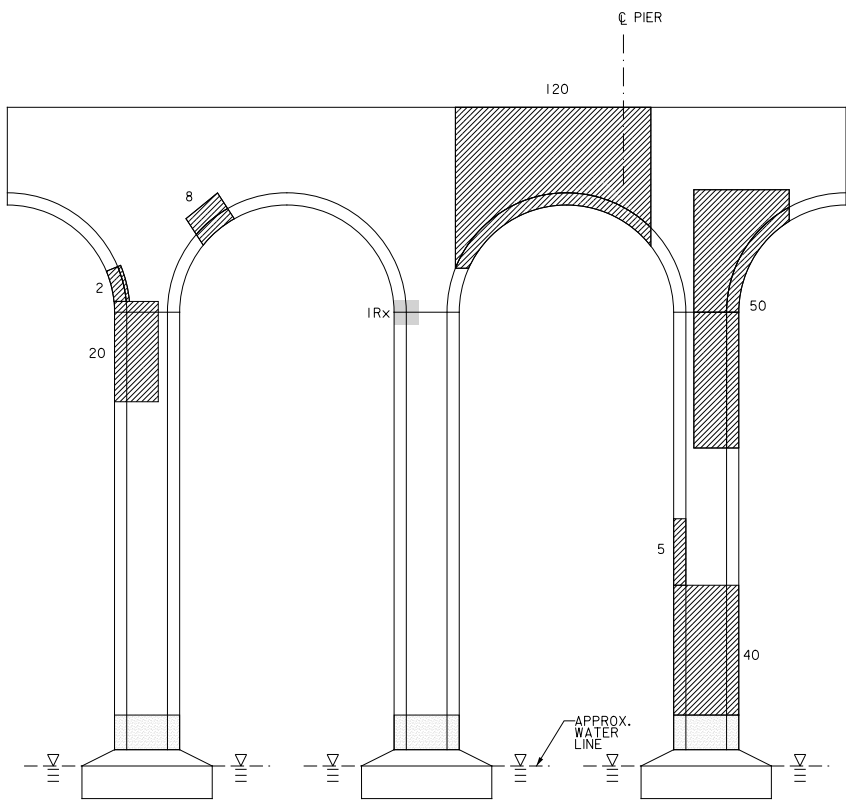


FIGURE 21

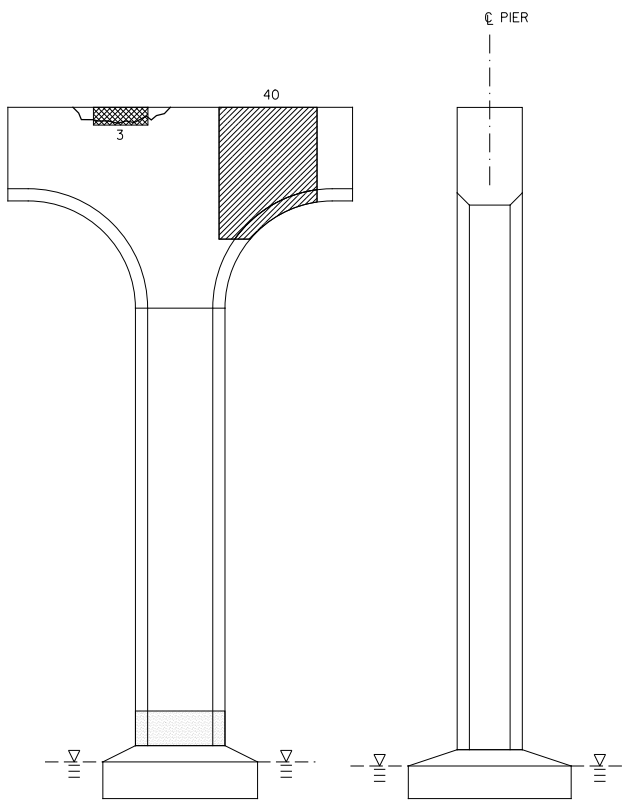


TOP PLAN OF CAP

- LEGEND**
- TOTAL
 - 3 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 285 SF - DENOTES PATCH
 - 1 SF - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 3 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
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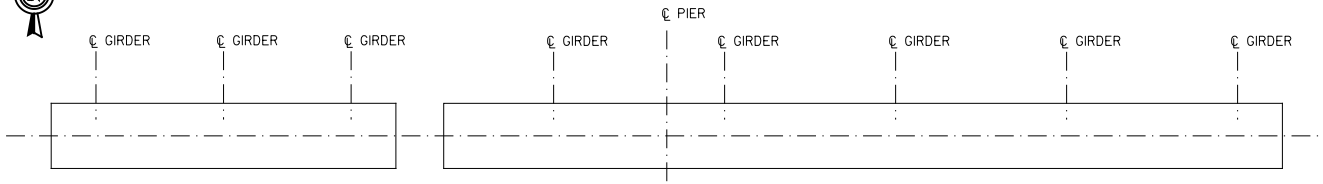
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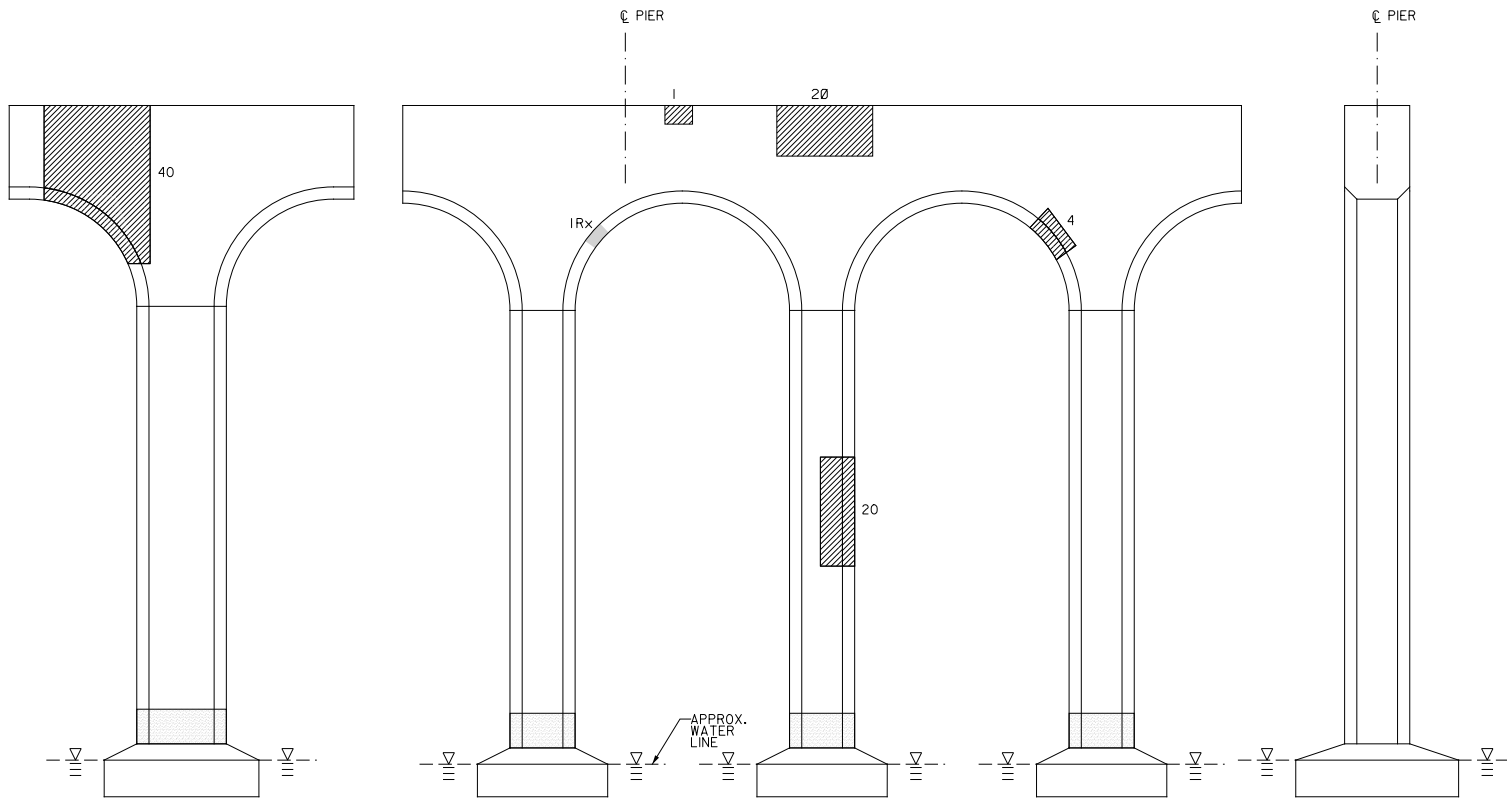


FIGURE 22



TOP PLAN OF CAP

- LEGEND**
- DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - DENOTES PATCH
 - 85 SF - EXPOSED REINFORCING
 - 1 SF - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 1 SF



SOUTH FACE ELEVATION
(LOOKING NORTH)

WEST END VIEW
(LOOKING EAST)

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PLAN AND ELEVATION
PIER 11

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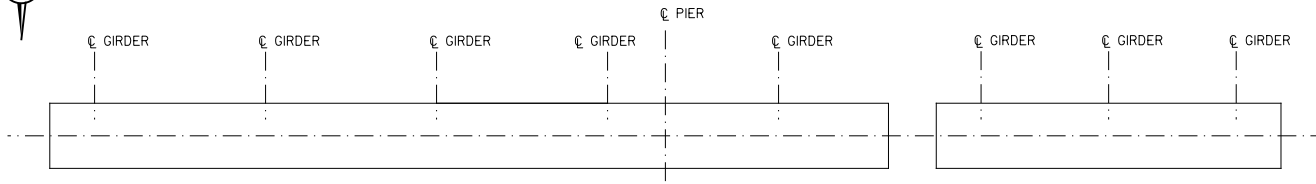
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FIGURE 23

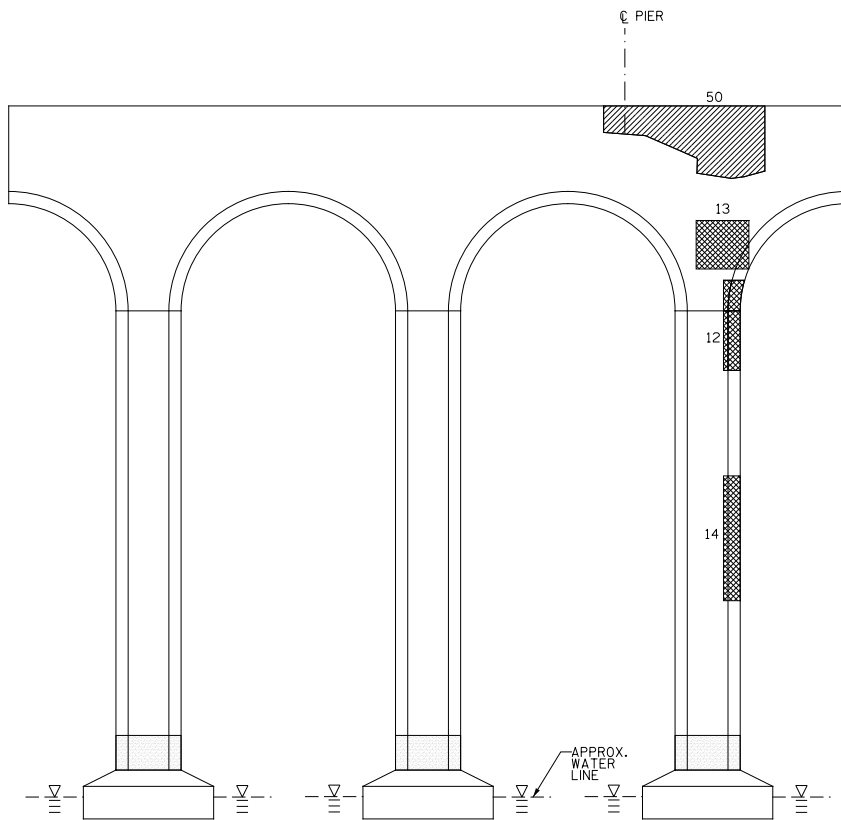


TOP PLAN OF CAP

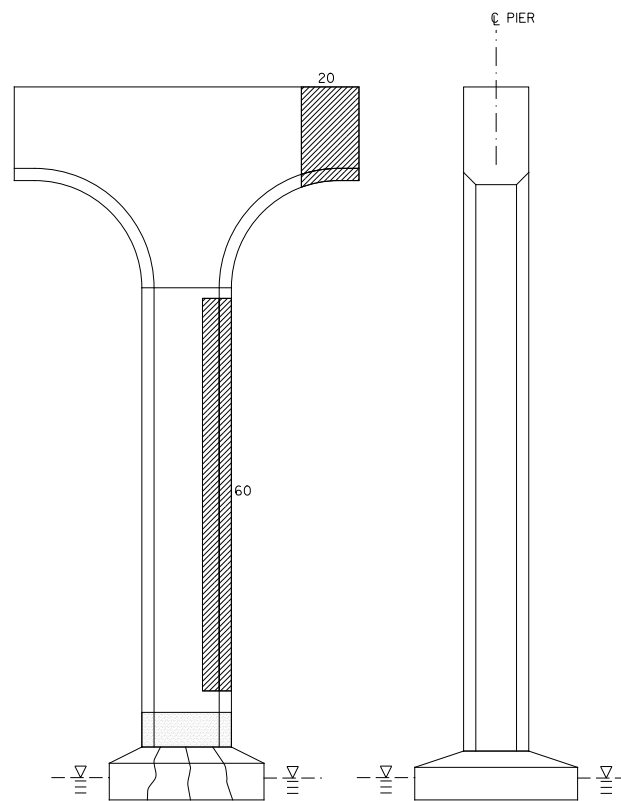
LEGEND

TOTAL
 39 SF - DENOTES CRACK
 DENOTES DELAM
 DENOTES SPALL
 DENOTES HEAVY ABRASION
 130 SF - DENOTES PATCH
 Rx EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
 DETERIORATED AREA - 39 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
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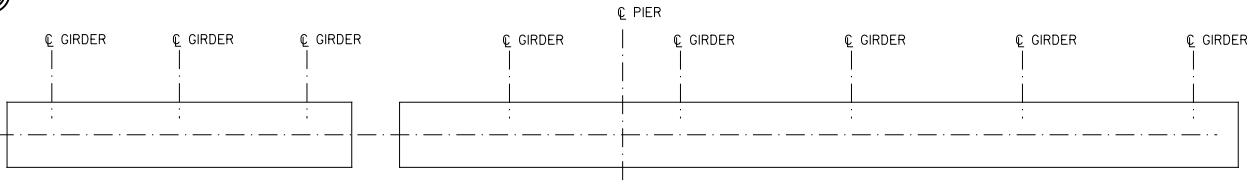
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BRIDGE 8S
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FIGURE 24



TOP PLAN OF CAP

LEGEND

TOTAL

2 SF - DENOTES CRACK

DENOTES DELAM

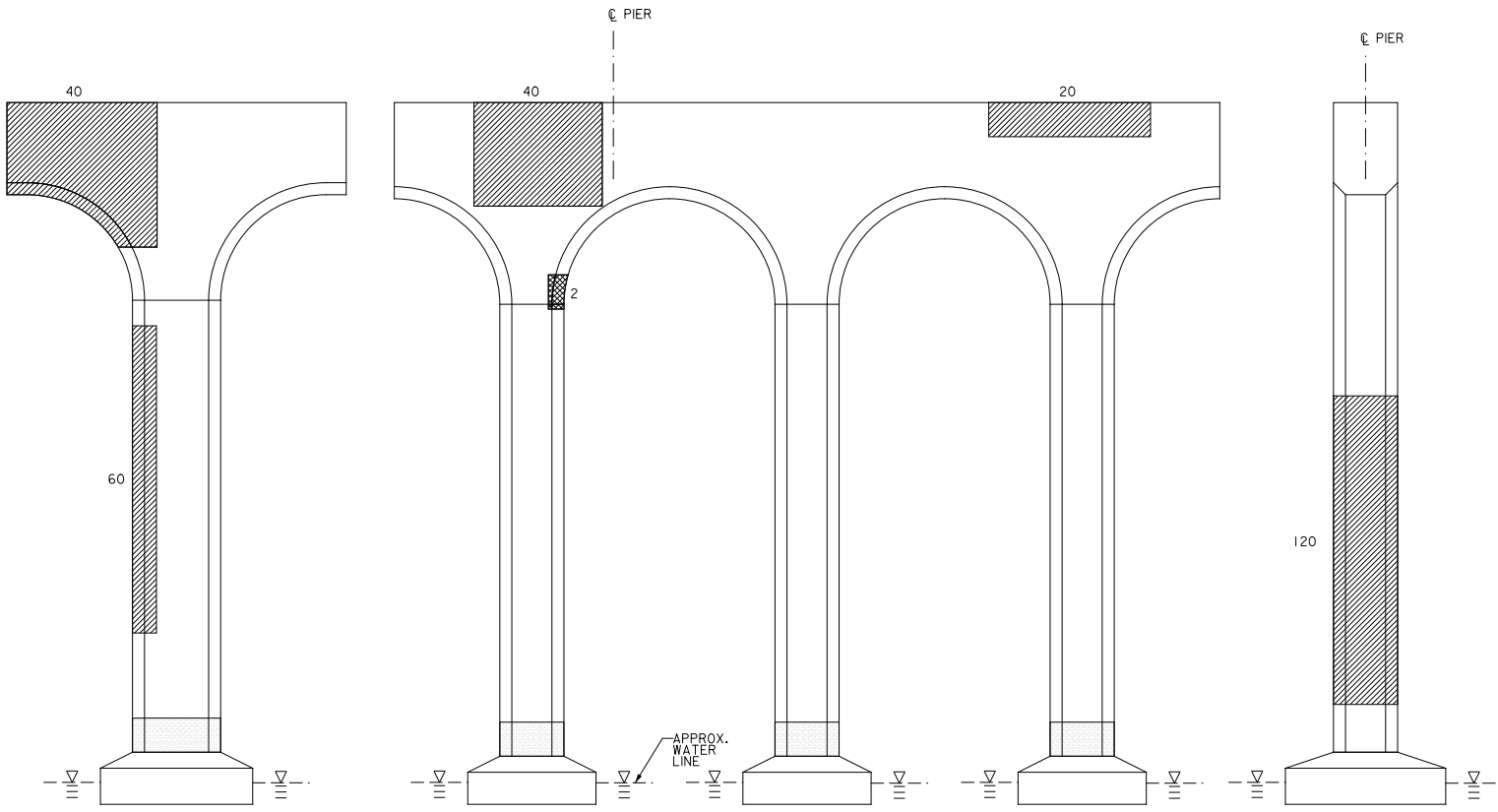
DENOTES SPALL

DENOTES HEAVY ABRASION

280 SF - DENOTES PATCH

Rx EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 2 SF



SOUTH FACE ELEVATION
(LOOKING NORTH)

WEST END VIEW
(LOOKING EAST)

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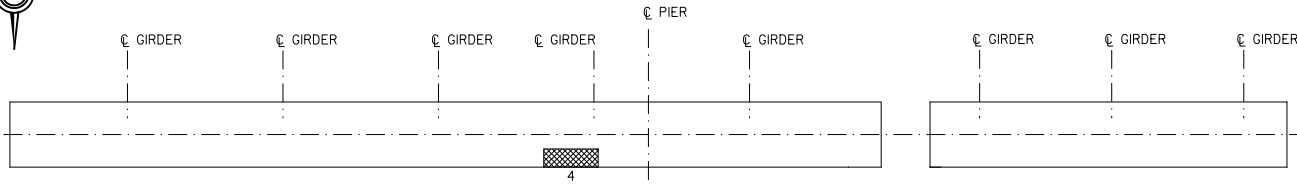
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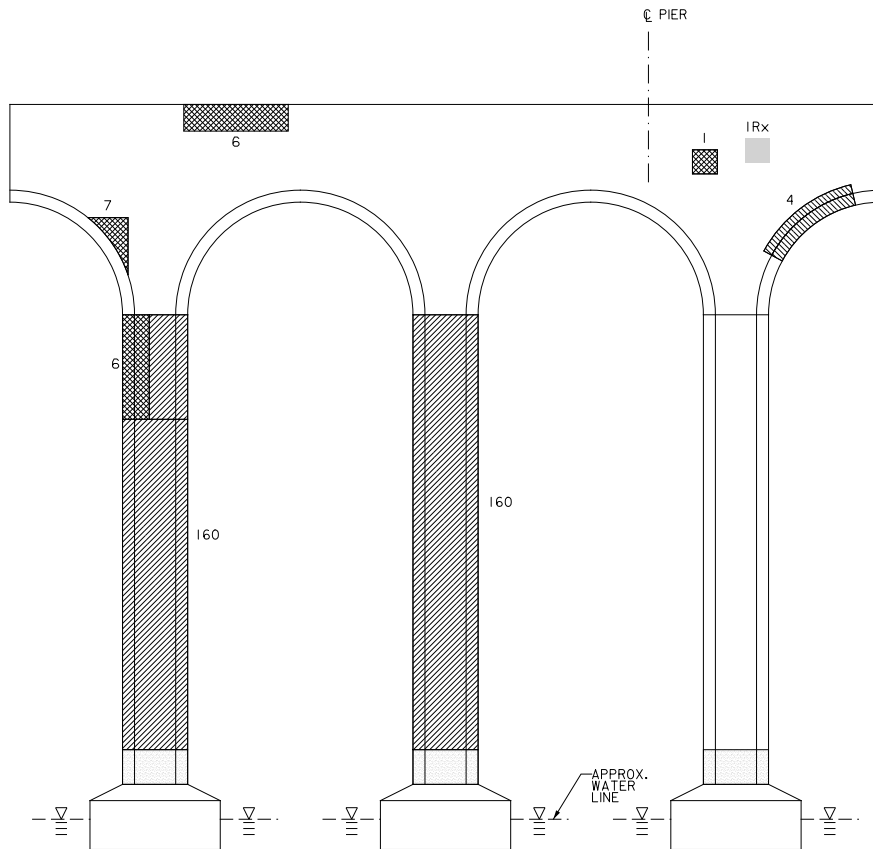
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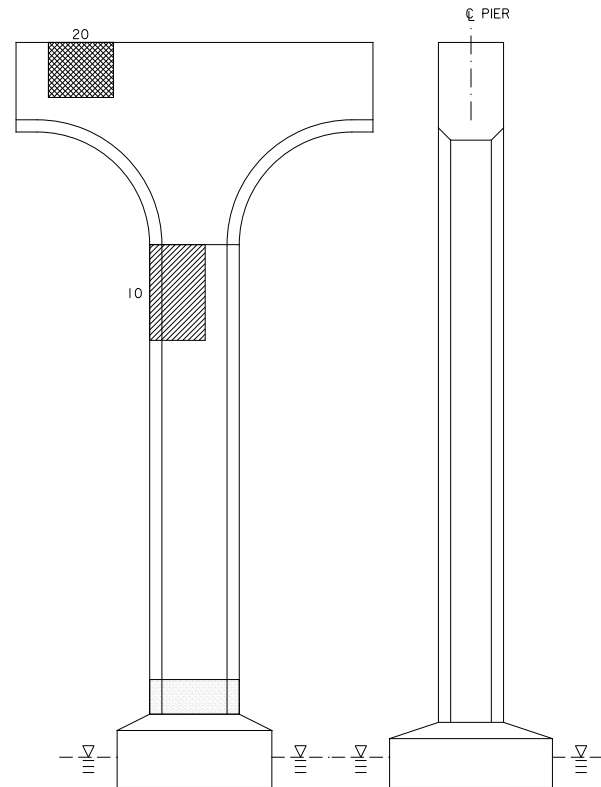
TOP PLAN OF CAP

FIGURE 25

- LEGEND**
- 44 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 328 SF - DENOTES PATCH
 - 1 SF - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 19 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
(LOOKING WEST)

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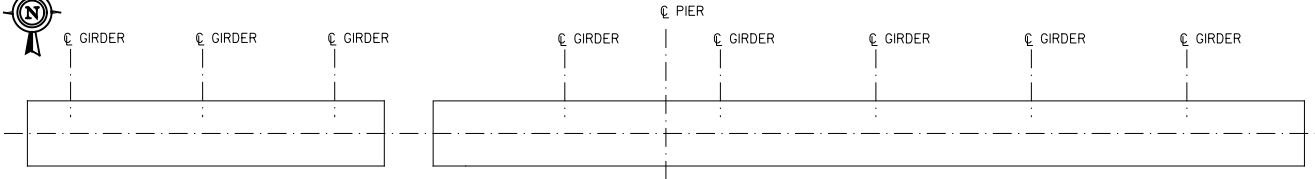
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TOP PLAN OF CAP

FIGURE 26

LEGEND

TOTAL

38 SF - DENOTES CRACK

DENOTES DELAM

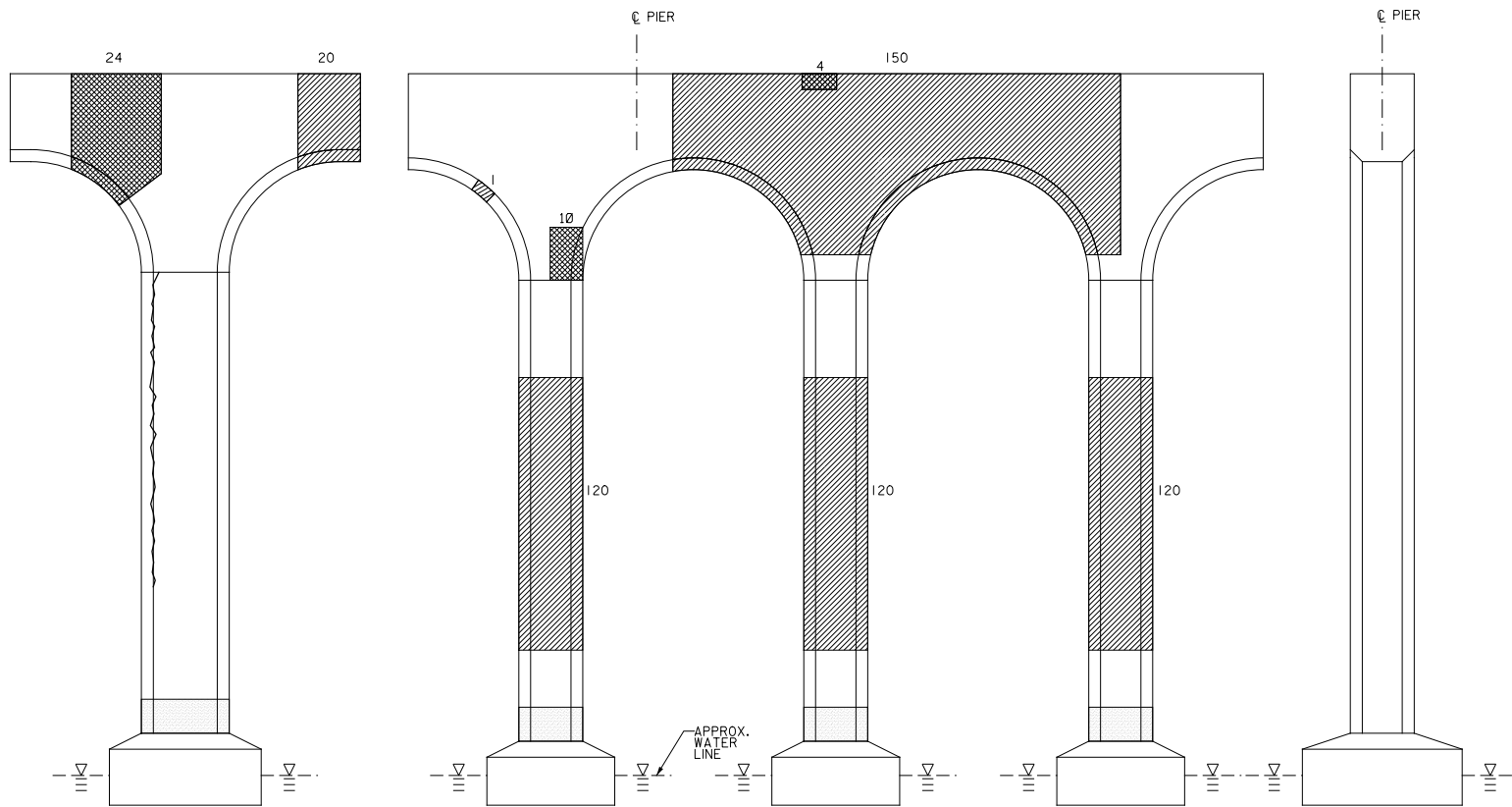
DENOTES SPALL

DENOTES HEAVY ABRASION

531 SF - DENOTES PATCH

Rx EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 33 SF



SOUTH FACE ELEVATION
(LOOKING NORTH)

WEST END VIEW
(LOOKING EAST)

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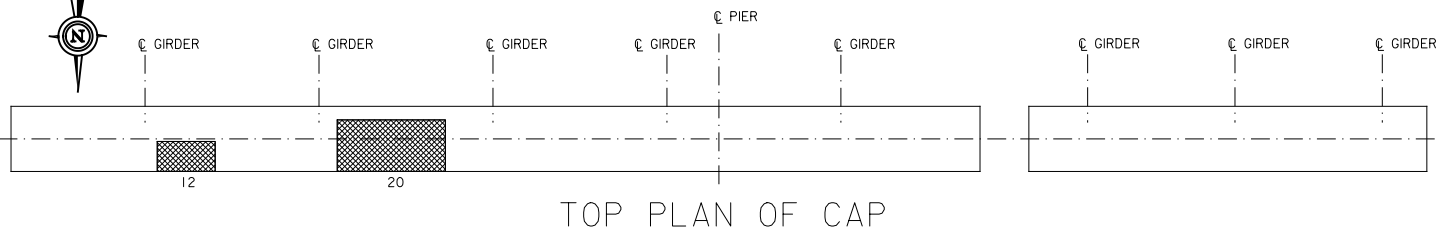


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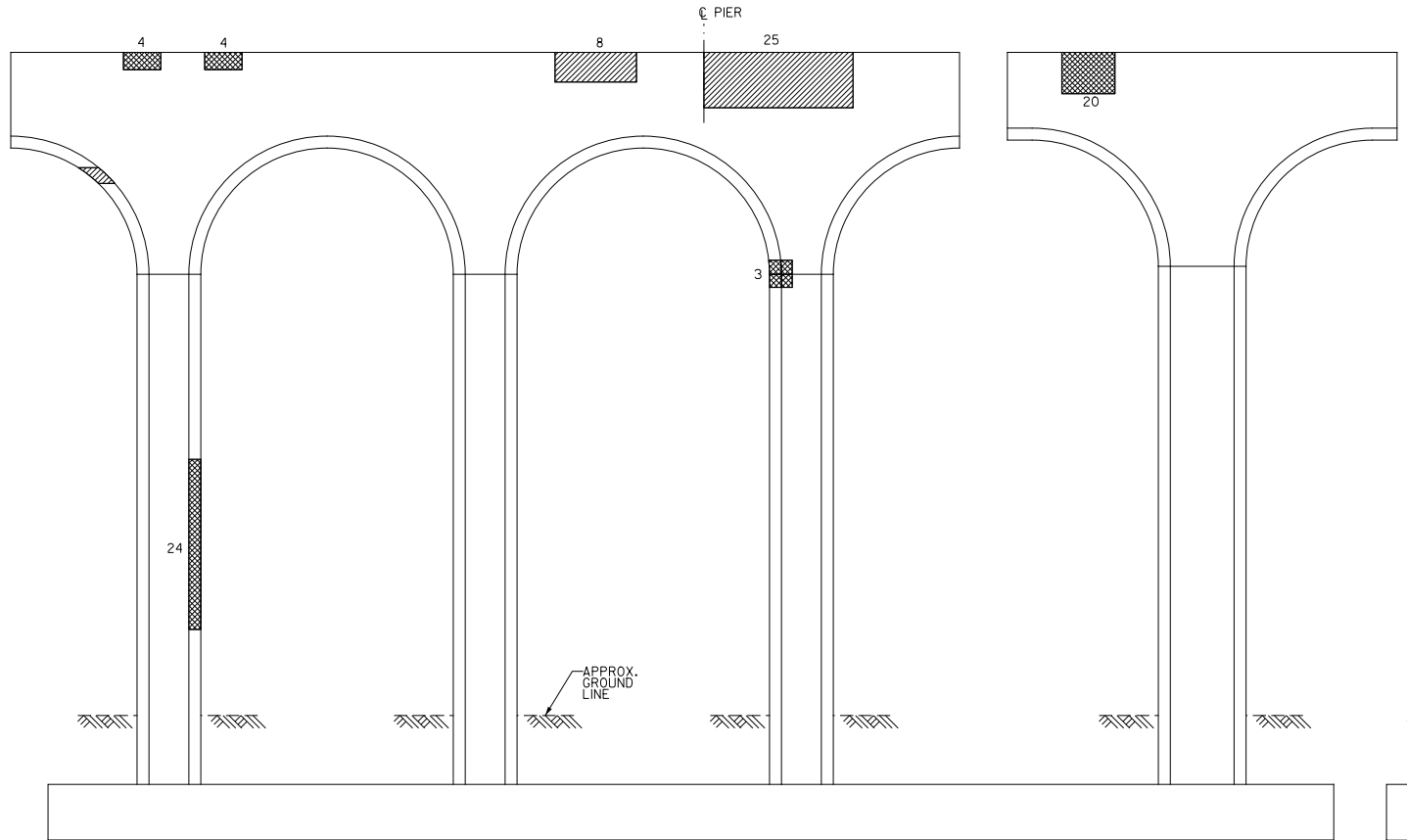
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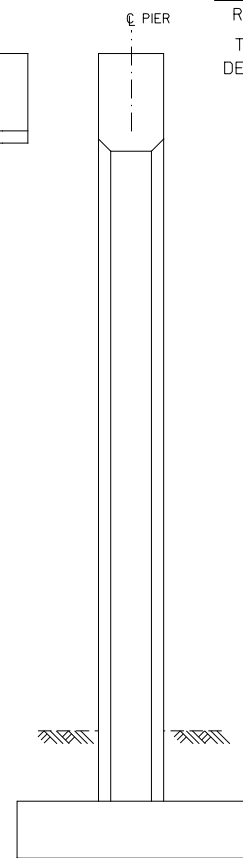
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TOP PLAN OF CAP



NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
(LOOKING WEST)

FIGURE 27
LEGEND

- TOTAL
- 87 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 33 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 3 SF

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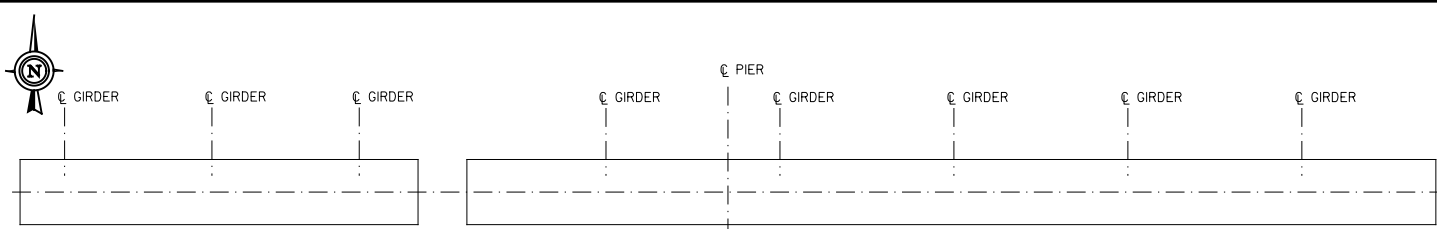
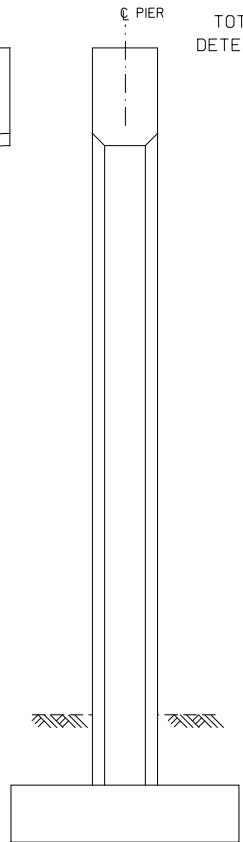
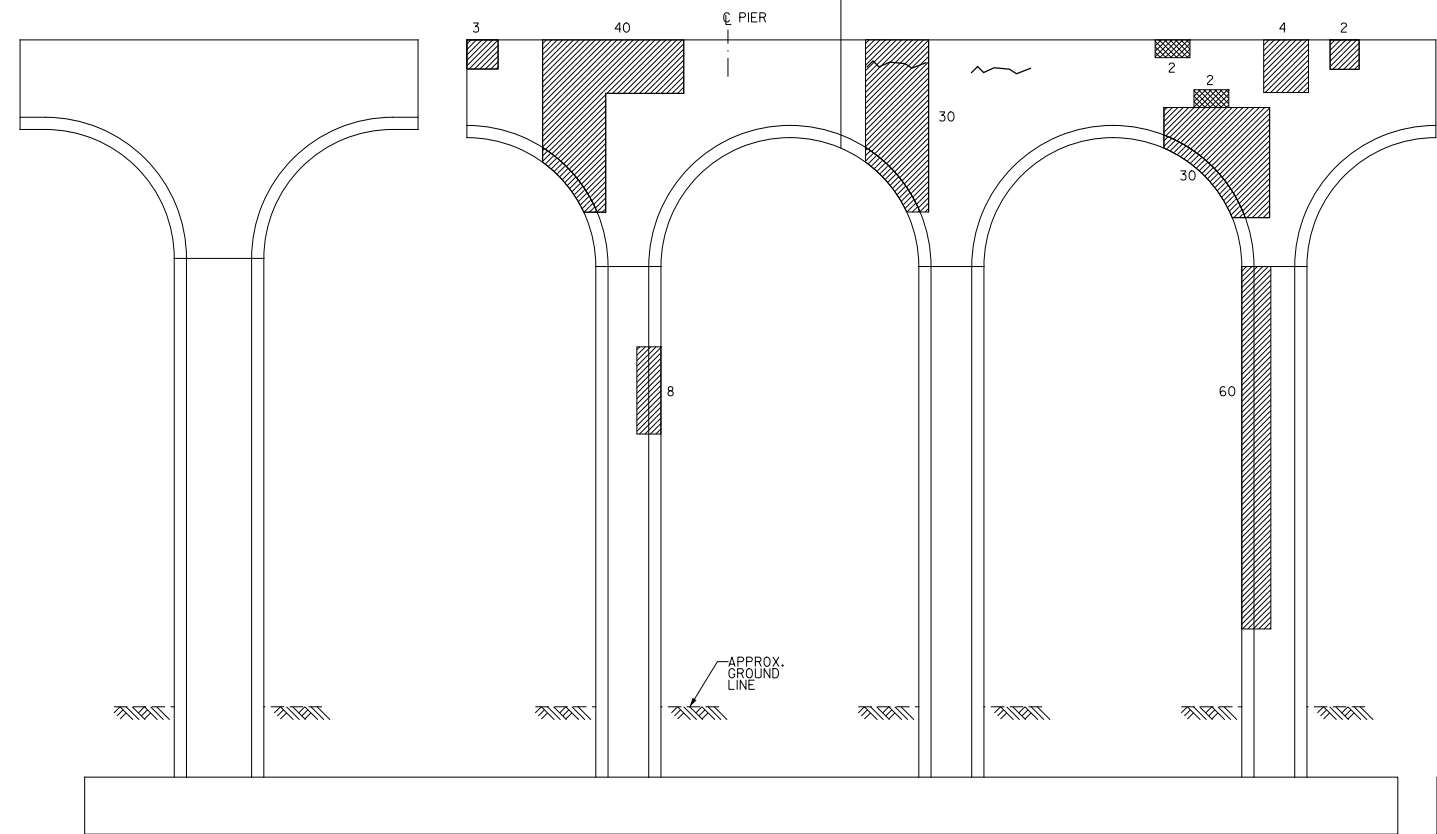


FIGURE 28

- LEGEND**
- ~ DENOTES CRACK
 - [Cross-hatched] DENOTES DELAM
 - [Diagonal lines /] DENOTES SPALL
 - [Diagonal lines \] DENOTES HEAVY ABRASION
 - [Stippled] DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL
 4 SF -
 177 SF -
 TOTAL PIER APPROXIMATE
 DETERIORATED AREA - 32 SF



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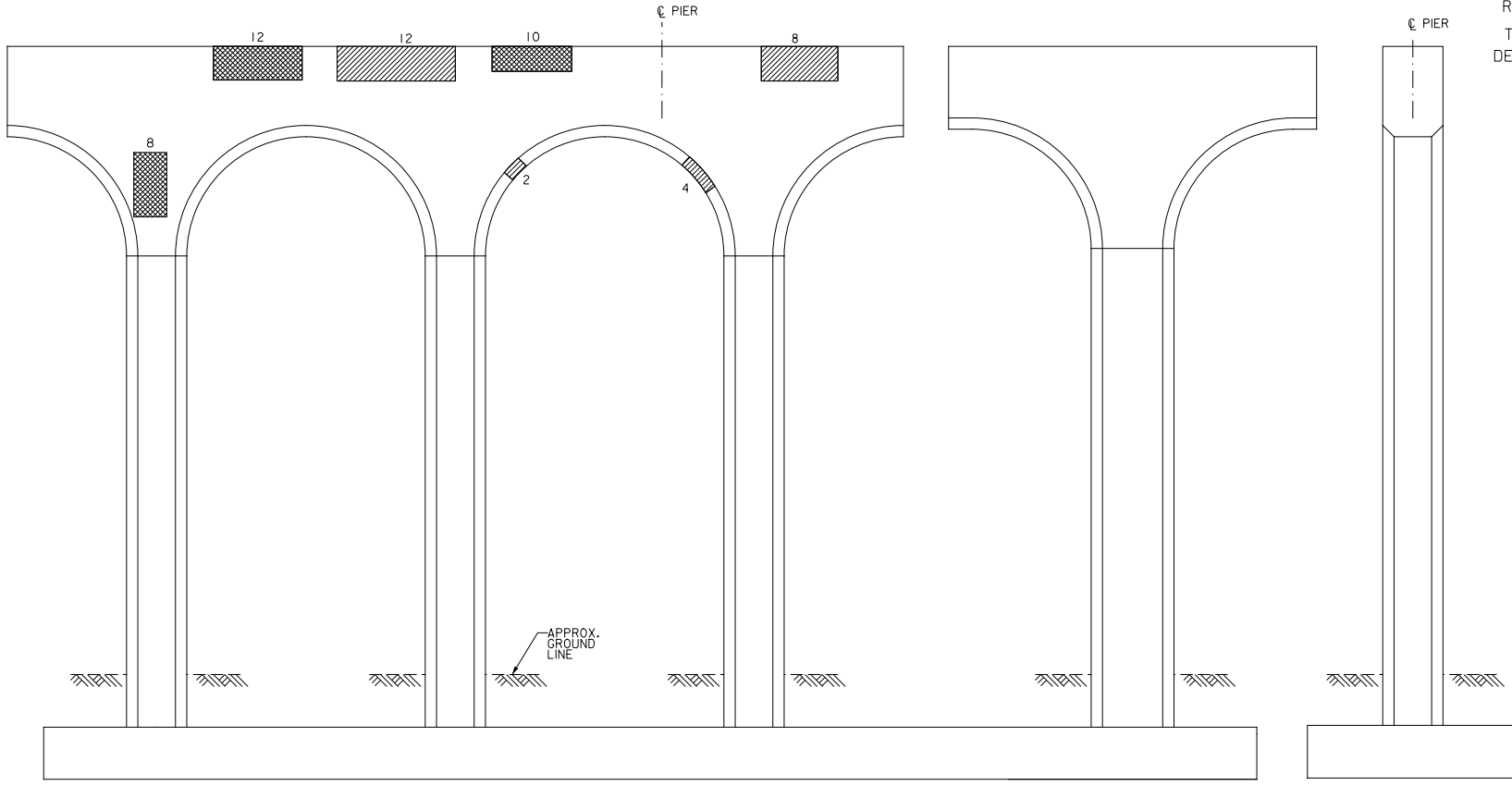
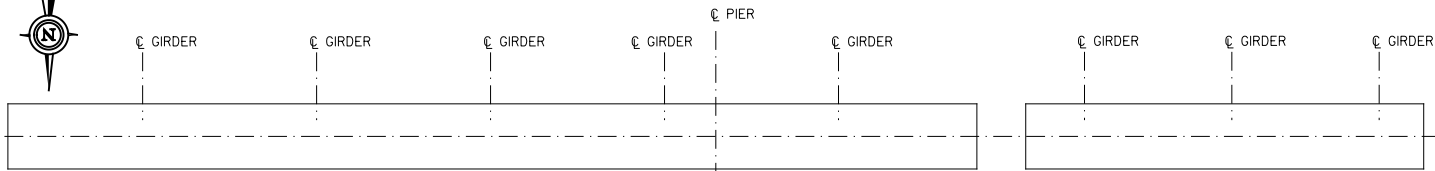


FIGURE 29

LEGEND

- TOTAL
- 30 SF - DENOTES CRACK
 - 30 SF - DENOTES DELAM
 - 30 SF - DENOTES SPALL
 - 30 SF - DENOTES HEAVY ABRASION
 - 26 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 8 SF

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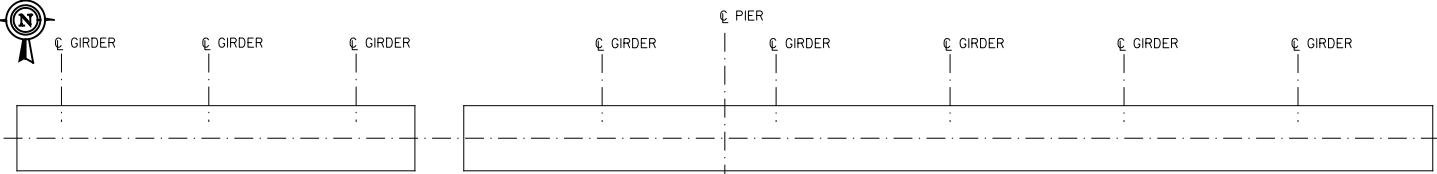


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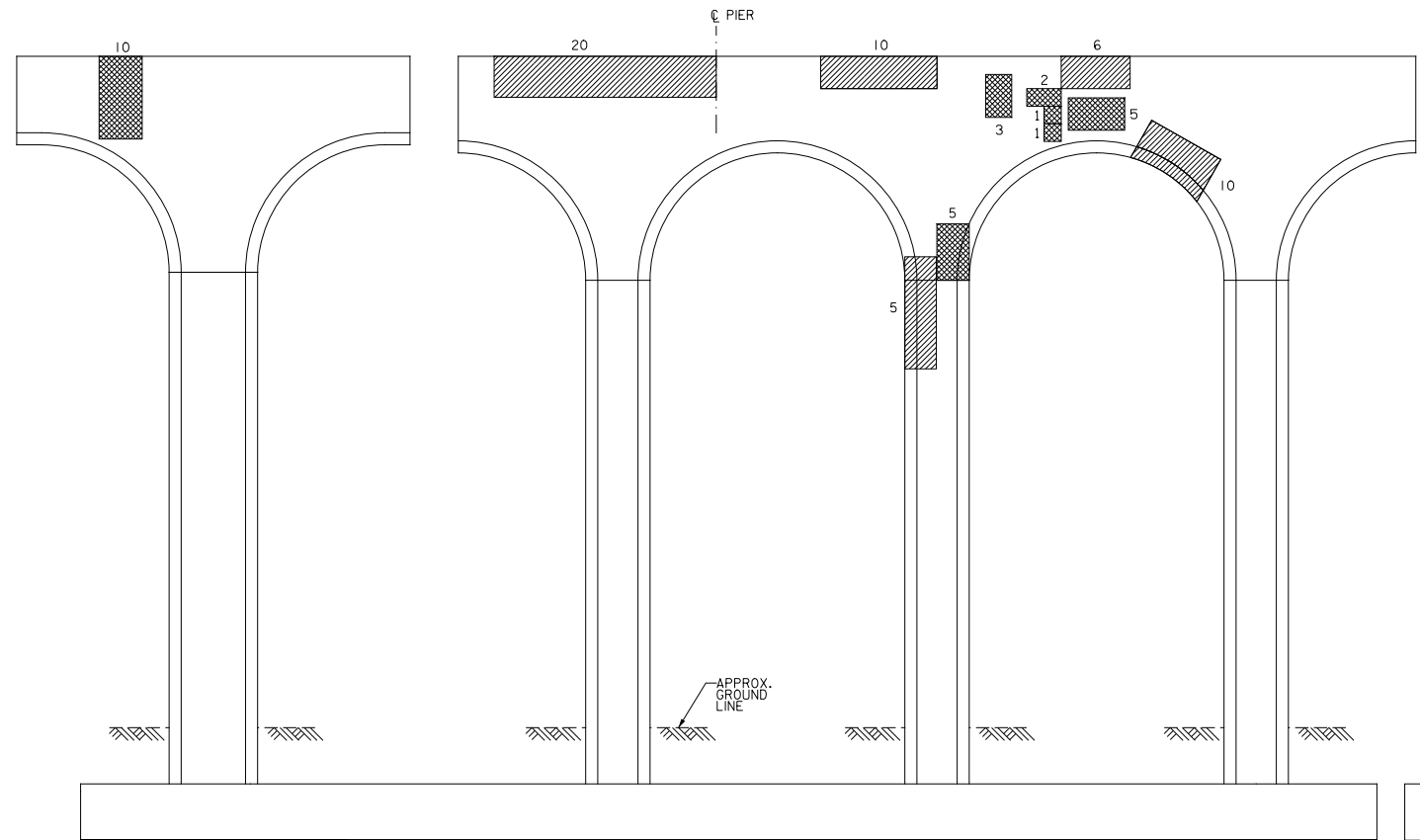
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TOP PLAN OF CAP



SOUTH FACE ELEVATION
(LOOKING NORTH)

FIGURE 30

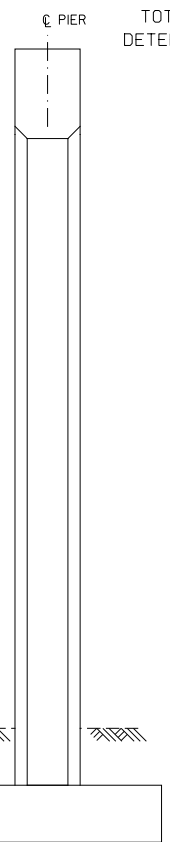
LEGEND

- ~ DENOTES CRACK
- [Cross-hatched] DENOTES DELAM
- [Diagonal lines /] DENOTES SPALL
- [Diagonal lines \] DENOTES HEAVY ABRASION
- [Stippled] DENOTES PATCH
- Rx EXPOSED REINFORCING

TOTAL
27 SF -

51 SF -

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 27 SF



WEST END VIEW
(LOOKING EAST)

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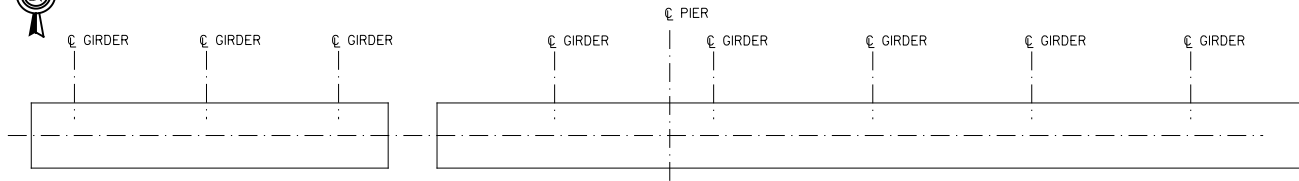
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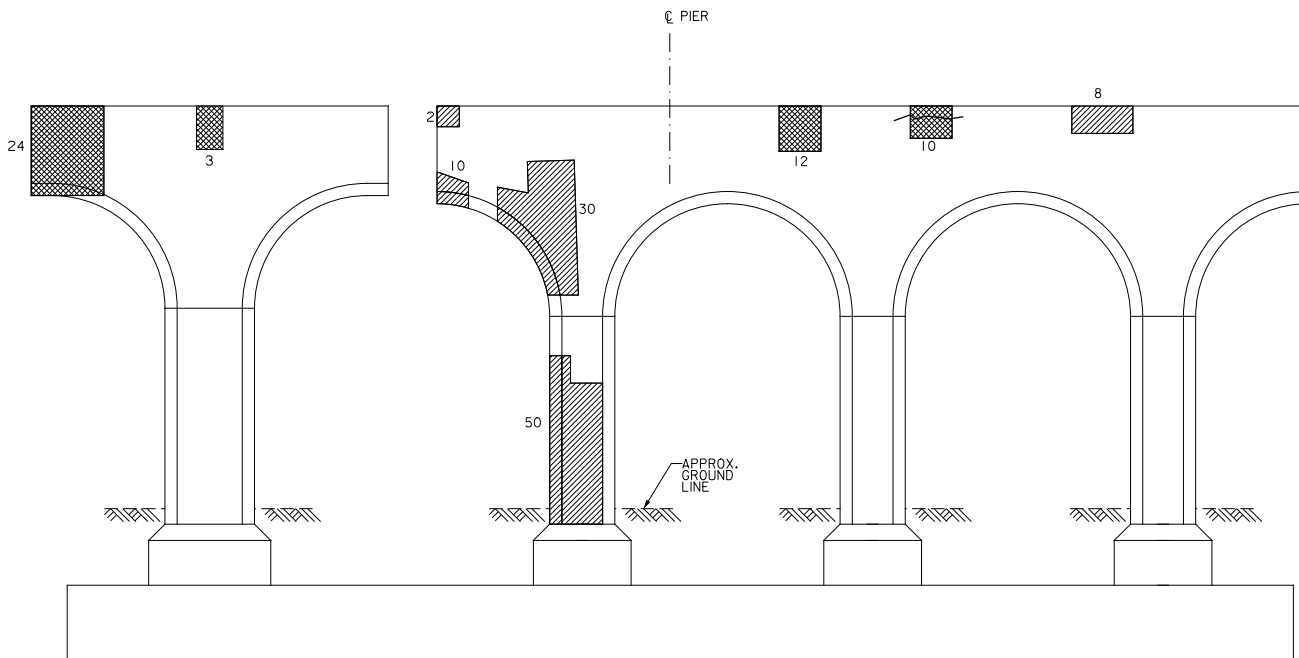
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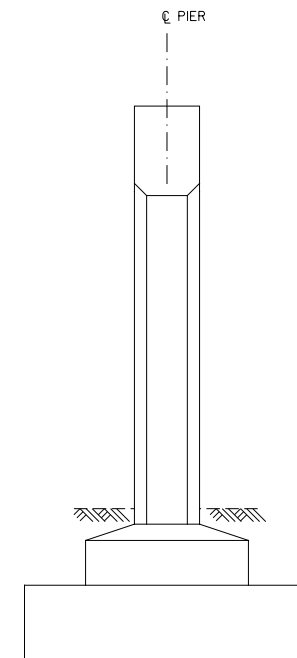
TOP PLAN OF CAP

FIGURE 32

- LEGEND**
- TOTAL
 - 39 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - DENOTES PATCH
 - 100 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
 - TOTAL PIER APPROXIMATE
DETERIORATED AREA - 5 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)



WEST END VIEW
(LOOKING EAST)

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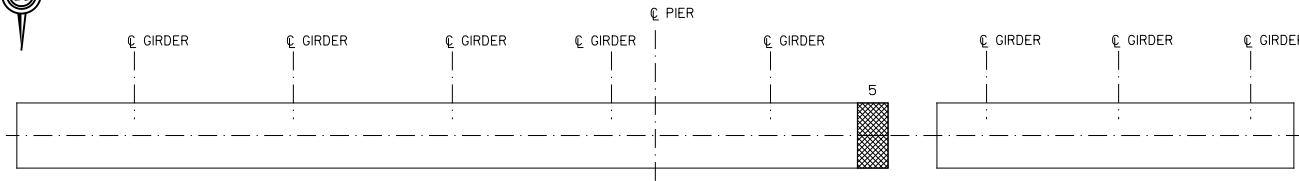


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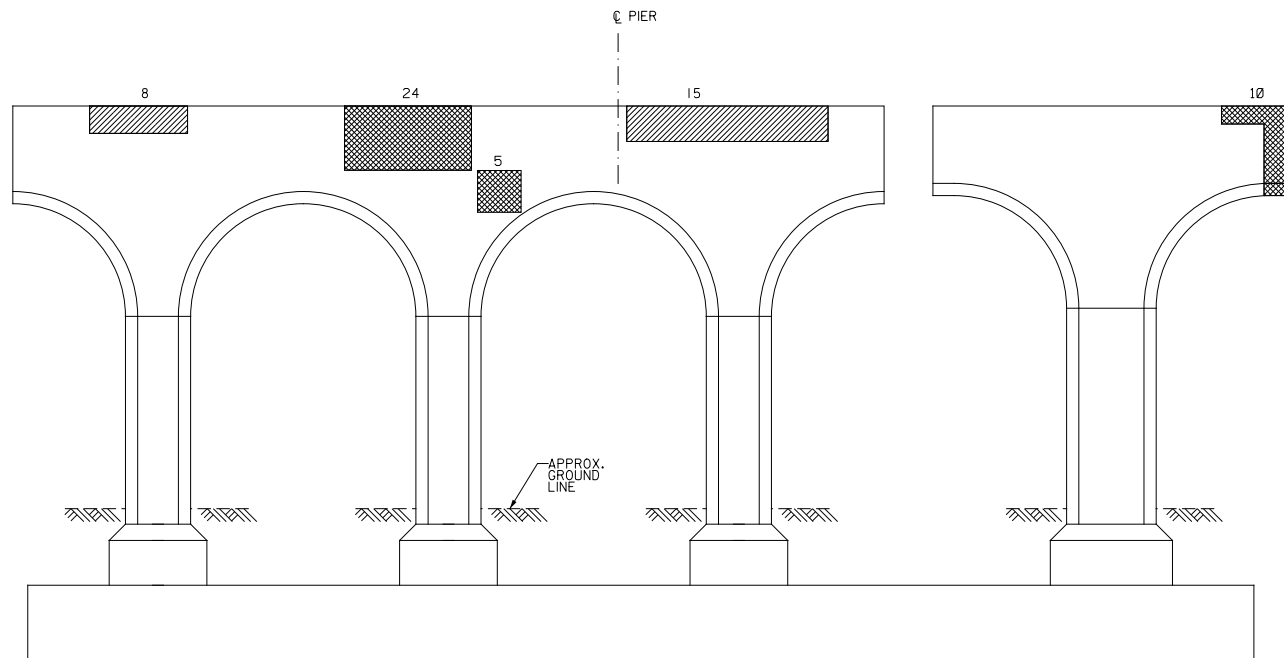
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FIGURE 31

- LEGEND**
- ~ DENOTES CRACK
 - [Cross-hatched] DENOTES DELAM
 - [Horizontal lines] DENOTES SPALL
 - [Vertical lines] DENOTES HEAVY ABRASION
 - [Diagonal lines] DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL
 44 SF - DENOTES DELAM
 23 SF - DENOTES PATCH
- TOTAL PIER APPROXIMATE
 DETERIORATED AREA - 44 SF



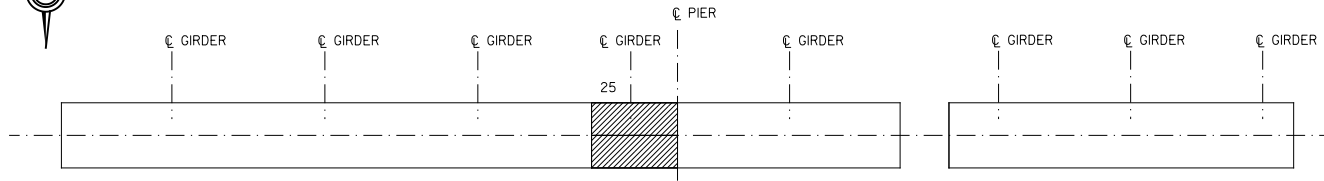
SOUTH FACE ELEVATION
(LOOKING NORTH)

EAST END VIEW
(LOOKING WEST)

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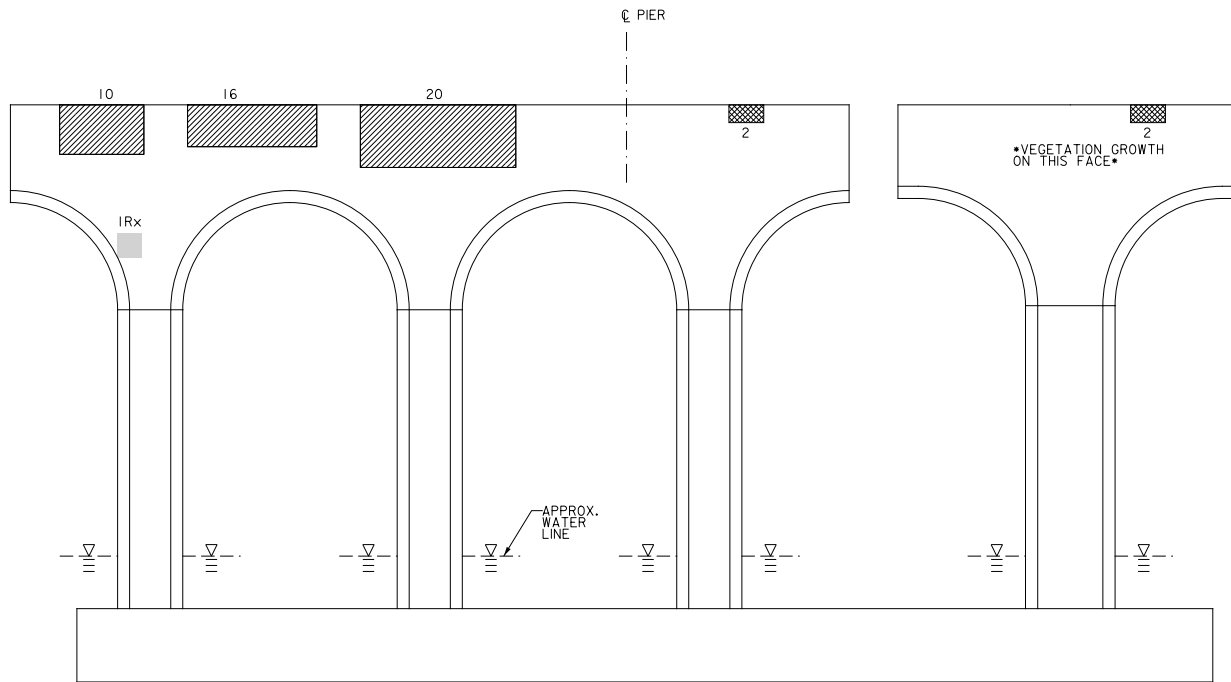


FIGURE 33

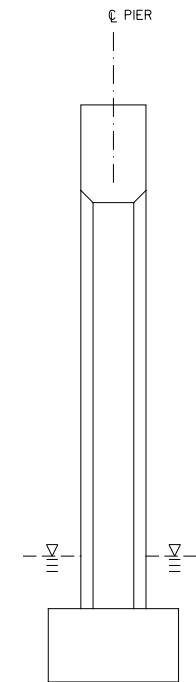


TOP PLAN OF CAP

- LEGEND**
- TOTAL
 - 2 SF - DENOTES CRACK
 - 2 SF - DENOTES DELAM
 - 71 SF - DENOTES SPALL
 - 71 SF - DENOTES HEAVY ABRASION
 - 1 SF - DENOTES PATCH
 - 1 SF - R_x EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 3 SF



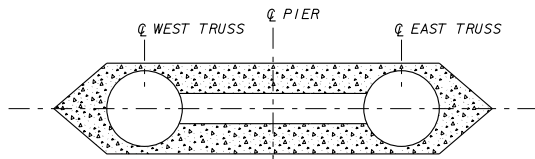
NORTH FACE ELEVATION
(LOOKING SOUTH)



EAST END VIEW
(LOOKING WEST)

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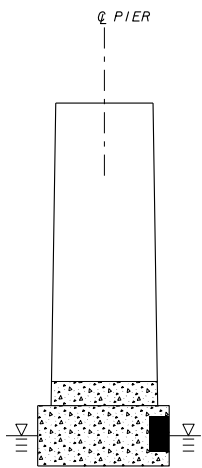
TOP PLAN OF CAP
WITH FOOTER BELOW

FIGURE 5
LEGEND

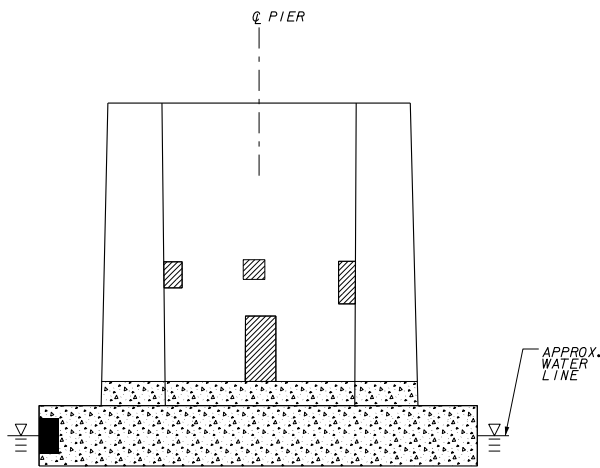
TOTAL

- DENOTES CRACK
- DENOTES DELAM
- 6 SF - DENOTES SPALL
- 7 SF - DENOTES PATCHING
- DENOTES SCALING/ABRASION
- Rx EXPOSED REINFORCING

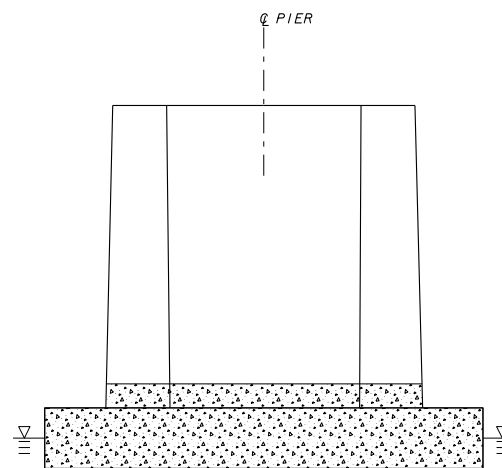
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 6 SF



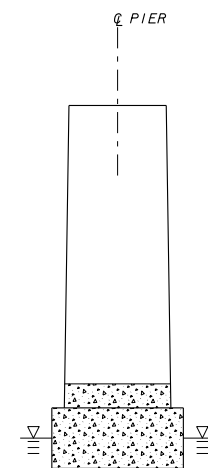
EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
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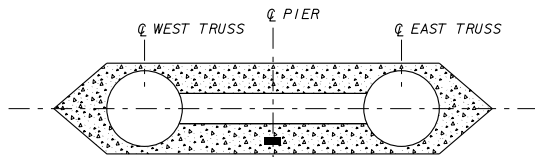
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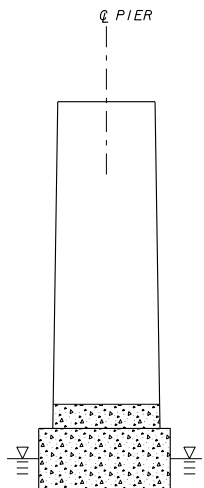
TOP PLAN OF CAP
WITH FOOTER BELOW

**FIGURE 7
LEGEND**

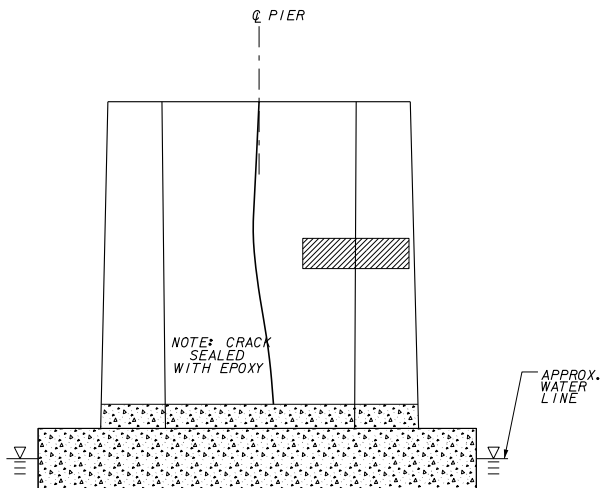
TOTAL

- DENOTES CRACK
- DENOTES DELAM
- 1 SF - DENOTES SPALL
- 28 SF - DENOTES PATCHING
- DENOTES SCALING/ABRASION
- 1 SF - Rx EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 2 SF

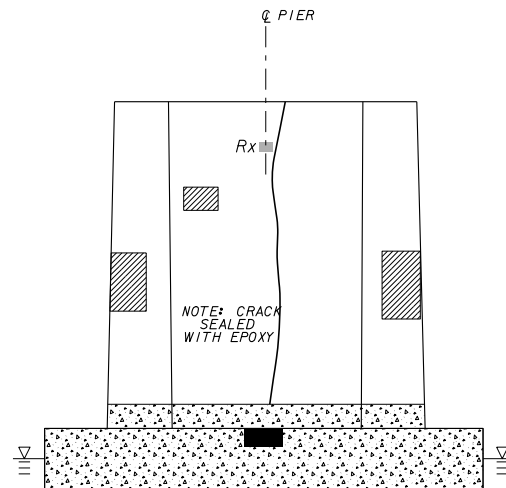


EAST END VIEW
(LOOKING WEST)

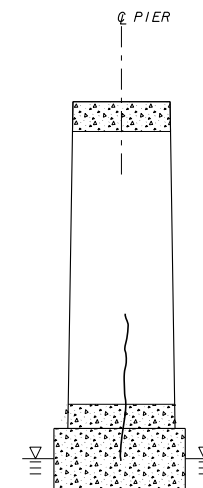


NORTH FACE ELEVATION
(LOOKING SOUTH)

NOTE: CRACK
SEALED
WITH EPOXY



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

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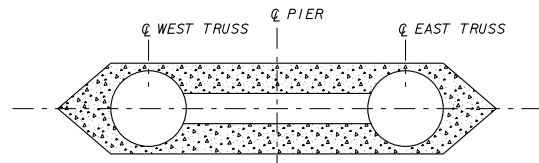
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BOULEVARD BRIDGE
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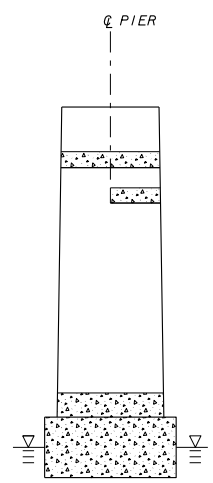
TOP PLAN OF CAP WITH FOOTER BELOW

FIGURE 8
LEGEND

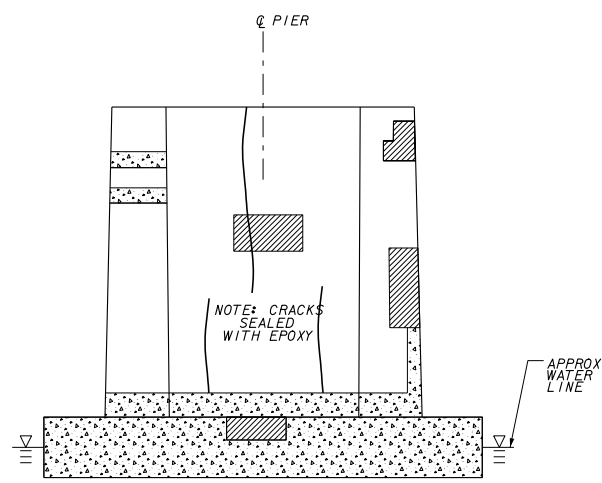
TOTAL

- DENOTES CRACK
- DENOTES DELAM
- 6 SF - DENOTES SPALL
- 40 SF - DENOTES PATCHING
- DENOTES SCALING/ABRASION
- Rx EXPOSED REINFORCING

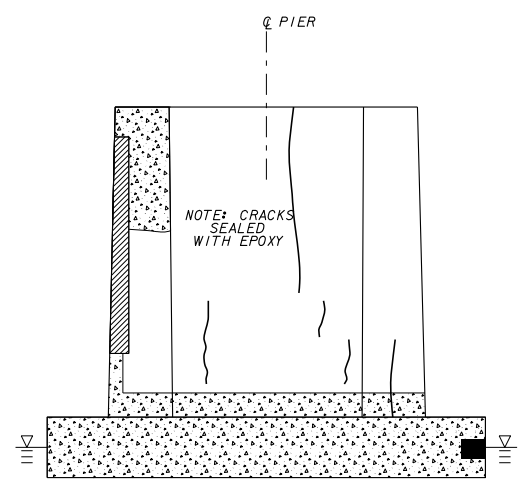
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 6 SF



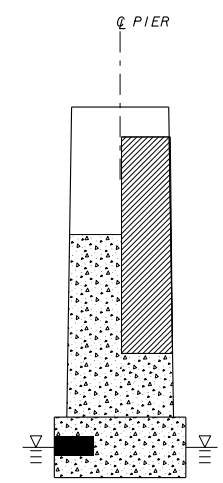
EAST END VIEW (LOOKING WEST)



NORTH FACE ELEVATION (LOOKING SOUTH)



SOUTH FACE ELEVATION (LOOKING NORTH)



WEST END VIEW (LOOKING EAST)

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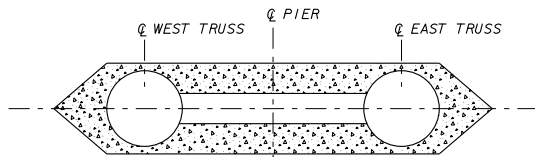
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**BOULEVARD BRIDGE
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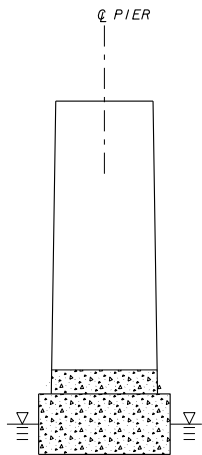


TOP PLAN OF CAP
WITH FOOTER BELOW

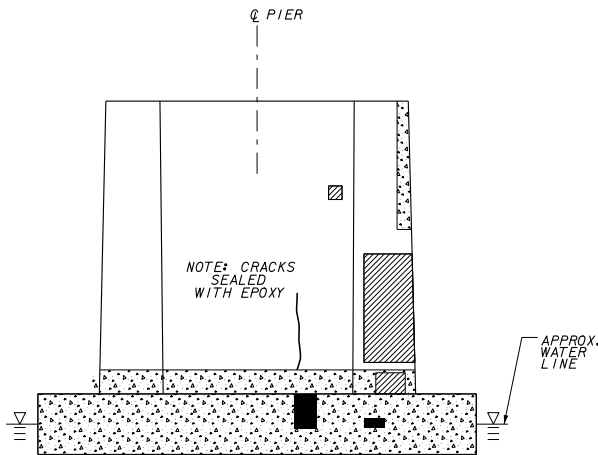
FIGURE 9
LEGEND

- TOTAL
- DENOTES CRACK
 - DENOTES DELAM
 - 5 SF - DENOTES SPALL
 - 42 SF - DENOTES PATCHING
 - DENOTES SCALING/ABRASION
 - Rx EXPOSED REINFORCING

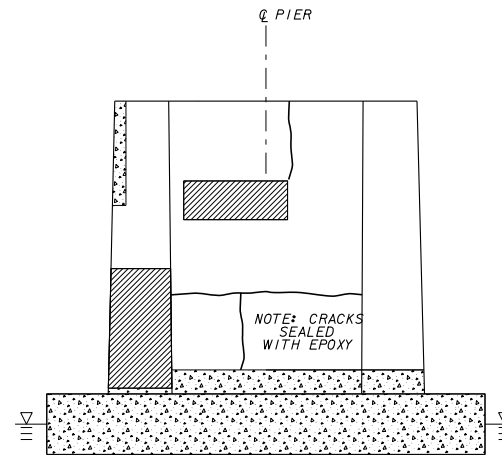
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 5 SF



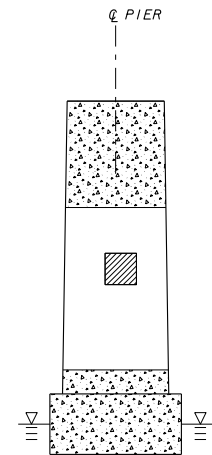
EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

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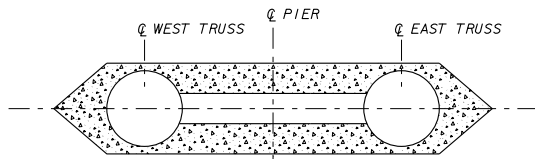
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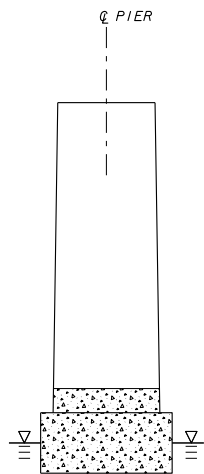


TOP PLAN OF CAP
WITH FOOTER BELOW

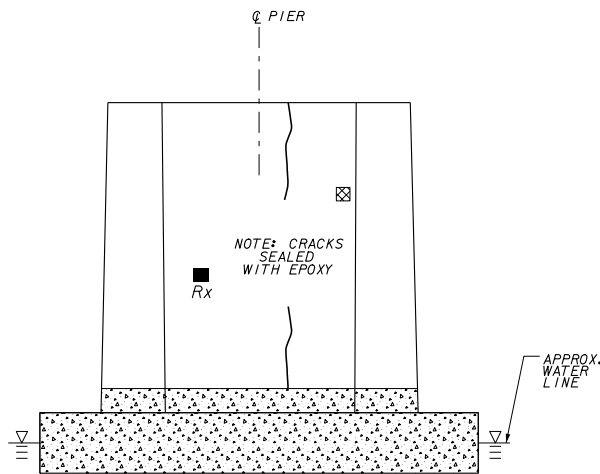
FIGURE 10
LEGEND

- TOTAL
- 1 SF - DENOTES CRACK
 - 1 SF - DENOTES DELAM
 - 46 SF - DENOTES SPALL
 - 46 SF - DENOTES PATCHING
 - 1 SF - DENOTES SCALING/ABRASION
 - 1 SF - Rx EXPOSED REINFORCING

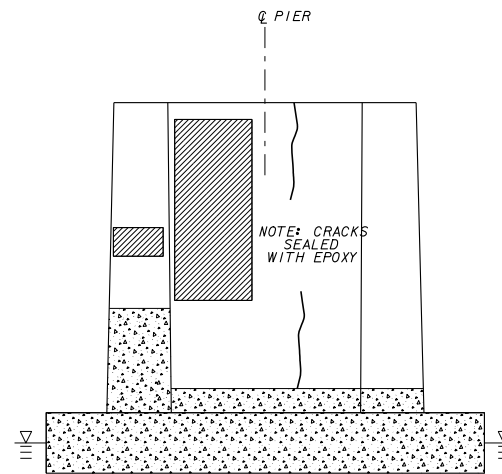
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 2 SF



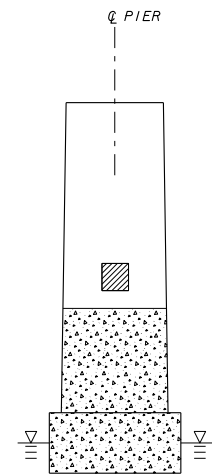
EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

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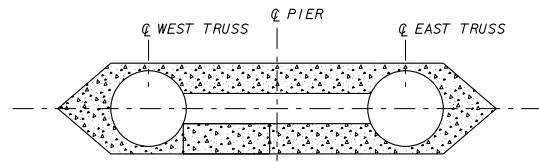
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FIGURE 11 LEGEND

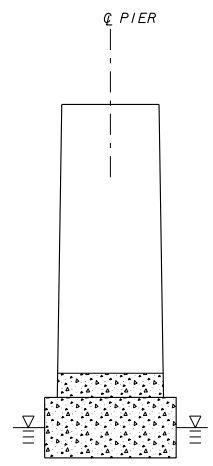
- TOTAL
- 6 SF -  DENOTES CRACK
- 6 SF -  DENOTES DELAM
- 16 SF -  DENOTES SPALL
- 16 SF -  DENOTES PATCHING
-  DENOTES SCALING/ABRASION
- Rx  EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 6 SF

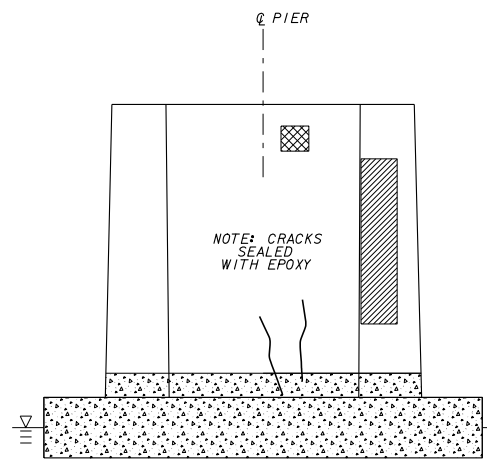


NOTE: SEVERE ABRASION
EXPOSING AGGREGATE

TOP PLAN OF CAP
WITH FOOTER BELOW



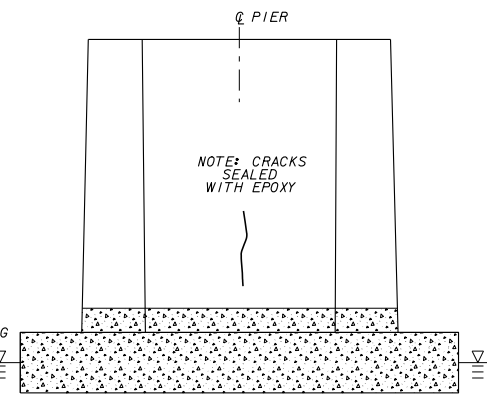
EAST END VIEW
(LOOKING WEST)



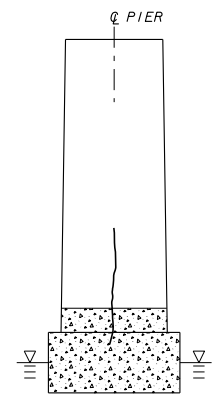
NORTH FACE ELEVATION
(LOOKING SOUTH)

APPROX.
WATER
LINE

NOTE: FOOTING
EXPOSED



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

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



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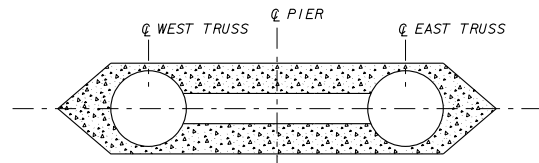
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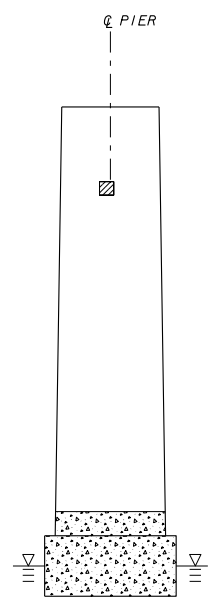
FIGURE 12 LEGEND

- TOTAL
-  DENOTES CRACK
 -  DENOTES DELAM
 -  DENOTES SPALL
 -  DENOTES PATCHING
 -  DENOTES SCALING/ABRASION
 -  EXPOSED REINFORCING

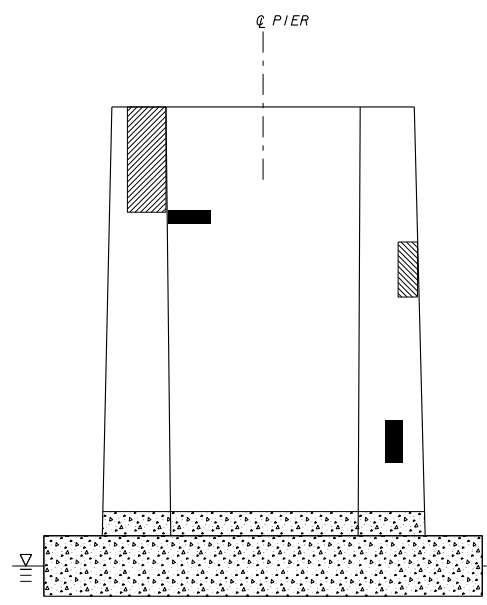
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 4 SF



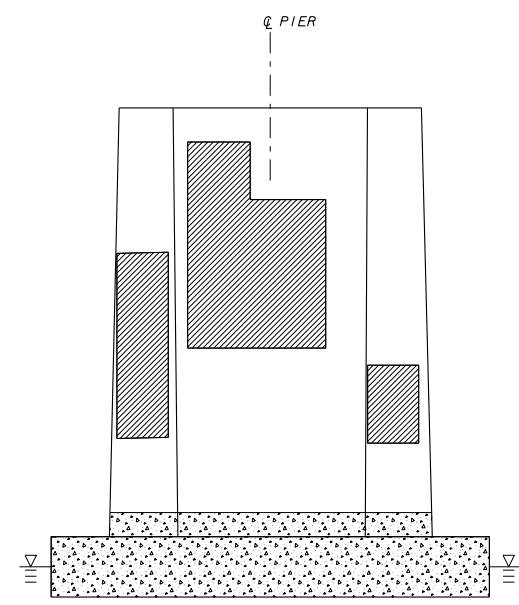
TOP PLAN OF CAP
WITH FOOTER BELOW



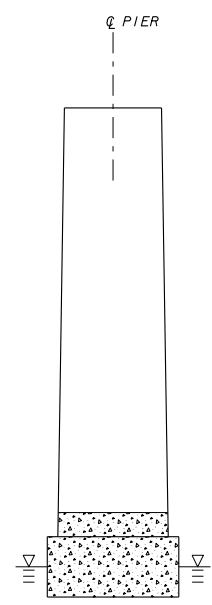
EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

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

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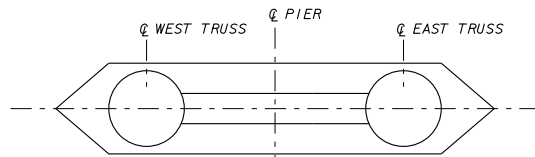
BOULEVARD BRIDGE
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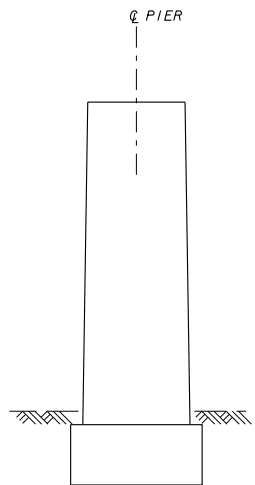
FIGURE 14 LEGEND

- TOTAL
- 1 SF -  DENOTES CRACK
 - 1 SF -  DENOTES DELAM
 - 15 SF -  DENOTES SPALL
 - 15 SF -  DENOTES PATCHING
 -  DENOTES SCALING/ABRASION
 - Rx  EXPOSED REINFORCING

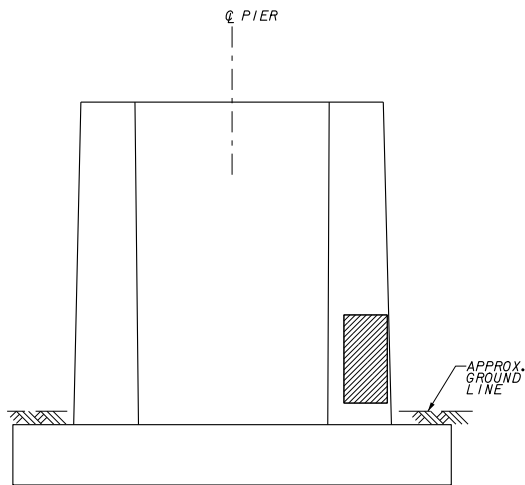
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 1 SF



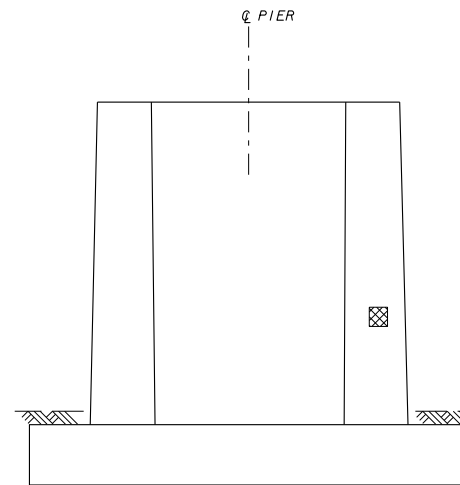
TOP PLAN OF CAP
WITH FOOTER BELOW



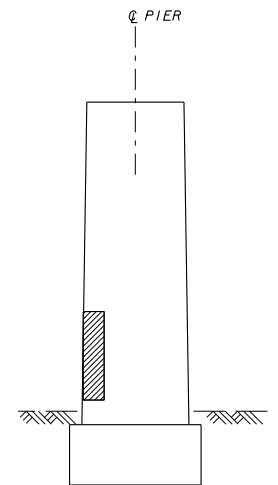
EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

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

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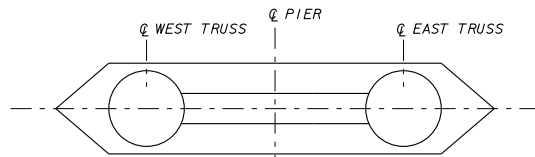
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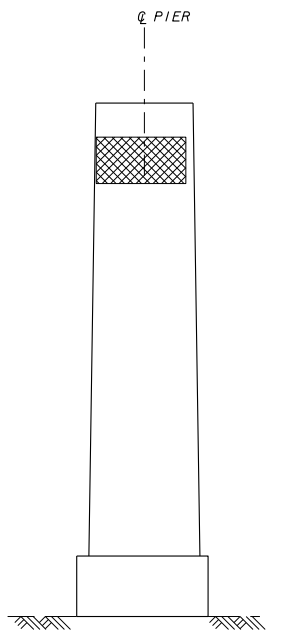
FIGURE 15 LEGEND

- TOTAL
- 6 SF -  DENOTES CRACK
 -  DENOTES DELAM
 -  DENOTES SPALL
 - 18 SF -  DENOTES PATCHING
 -  DENOTES SCALING/ABRASION
 - Rx  EXPOSED REINFORCING

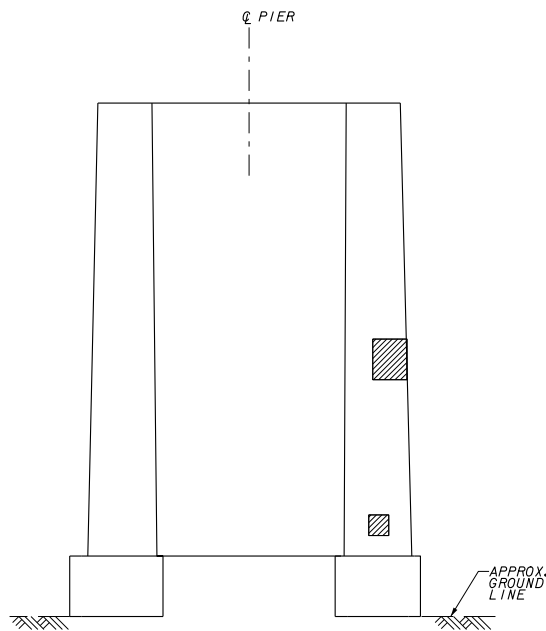
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 6 SF



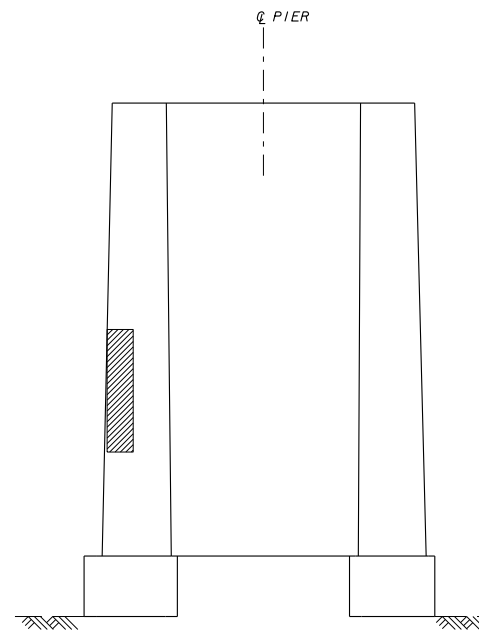
TOP PLAN OF CAP
WITH FOOTER BELOW



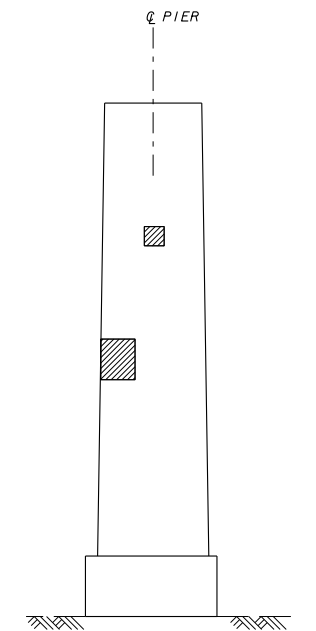
EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

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

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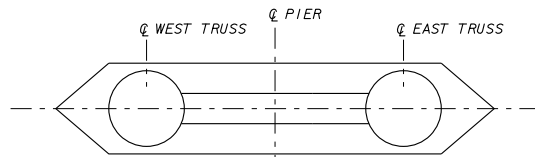
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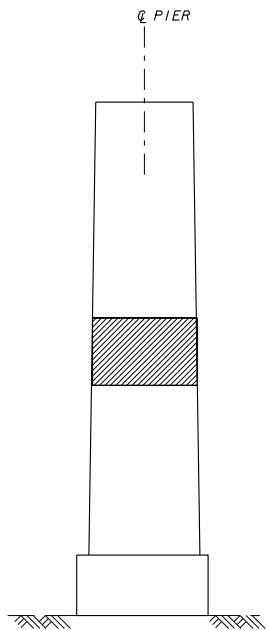
FIGURE 17 LEGEND

- TOTAL
-  DENOTES CRACK
 -  DENOTES DELAM
 - 4 SF -  DENOTES SPALL
 - 34 SF -  DENOTES PATCHING
 -  DENOTES SCALING/ABRASION
 - Rx  EXPOSED REINFORCING

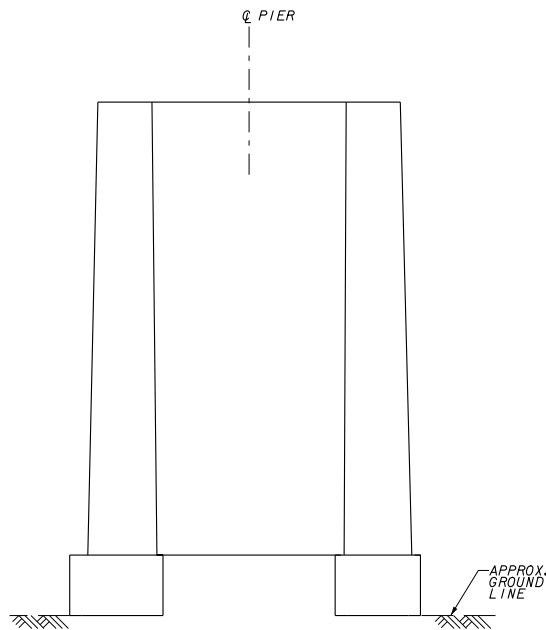
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 4 SF



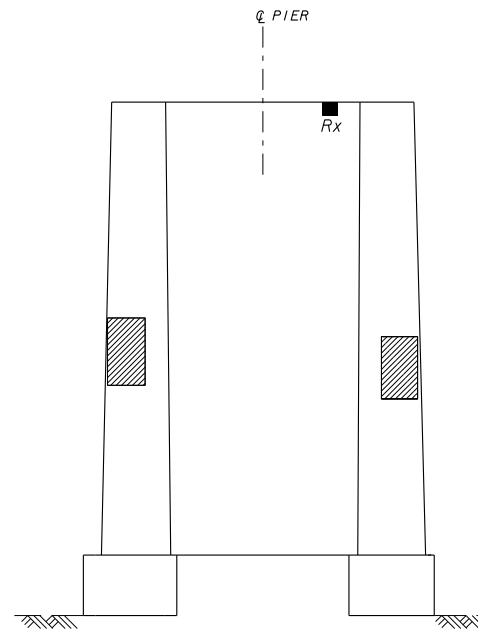
TOP PLAN OF CAP
WITH FOOTER BELOW



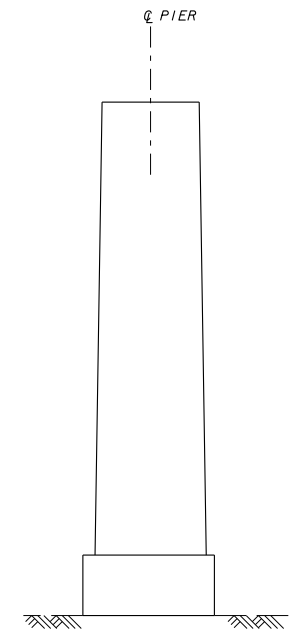
EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

NO.	DATE	DESCRIPTION

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





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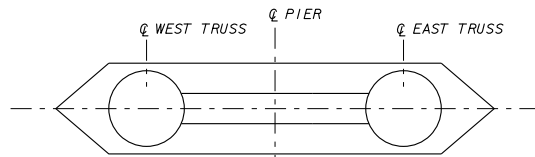
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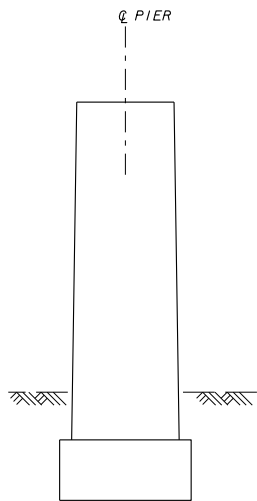
FIGURE 19 LEGEND

- TOTAL
- 6 SF -  DENOTES CRACK
-  DENOTES DELAM
-  DENOTES SPALL
- 66 SF -  DENOTES PATCHING
-  DENOTES SCALING/ABRASION
- Rx  EXPOSED REINFORCING

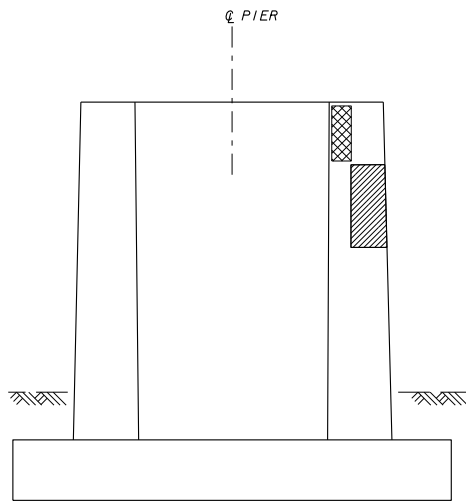
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 6 SF



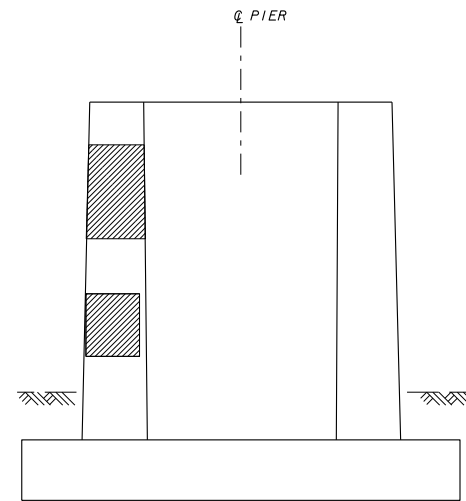
TOP PLAN OF CAP
WITH FOOTER BELOW



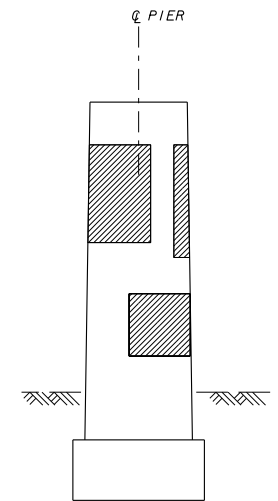
EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



SOUTH FACE ELEVATION
(LOOKING NORTH)



WEST END VIEW
(LOOKING EAST)

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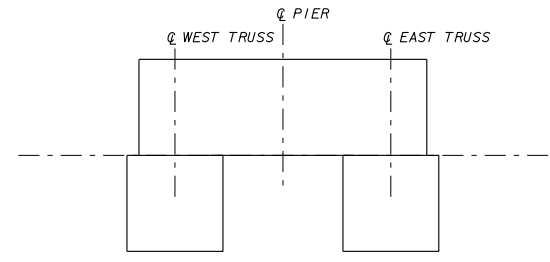
BOULEVARD BRIDGE
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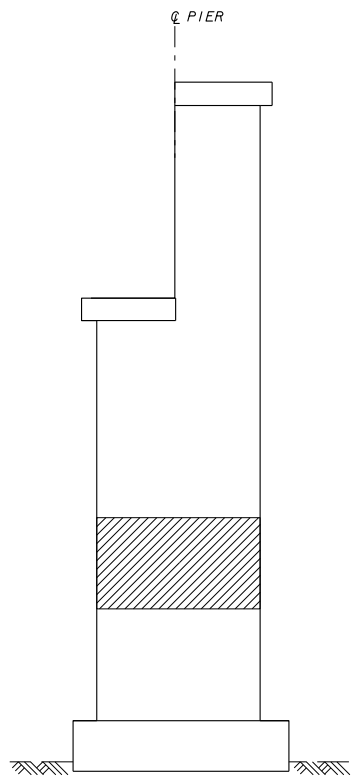
FIGURE 20 LEGEND

- TOTAL
27 SF - DENOTES CRACK
340 SF - DENOTES DELAM
DENOTES SPALL
DENOTES PATCHING
DENOTES SCALING/ABRASION
Rx EXPOSED REINFORCING

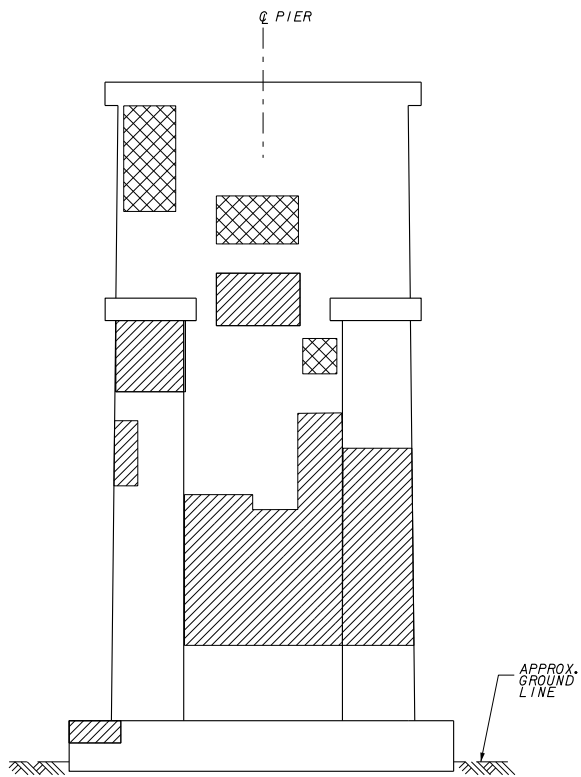
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 15 SF



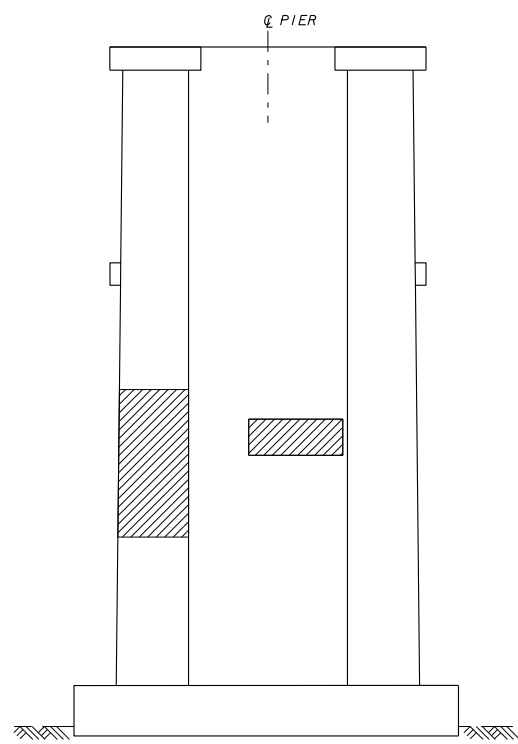
TOP PLAN OF CAP
WITH FOOTER BELOW



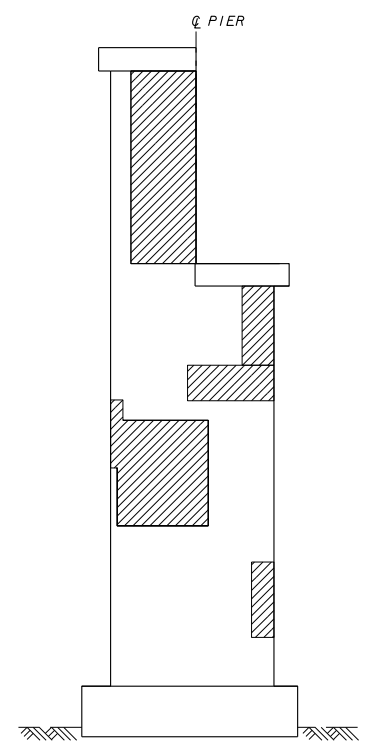
EAST END VIEW
(LOOKING WEST)



SOUTH FACE ELEVATION
(LOOKING NORTH)



NORTH FACE ELEVATION
(LOOKING SOUTH)



WEST END VIEW
(LOOKING EAST)

NO.	DATE	DESCRIPTION

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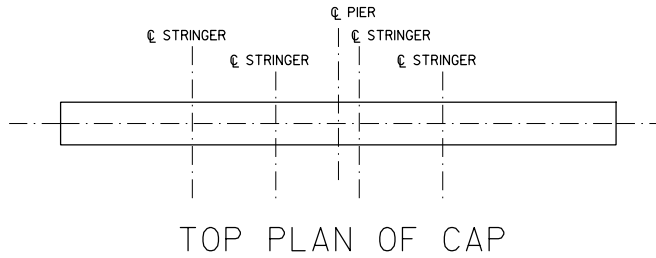
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BOULEVARD BRIDGE
PLAN AND ELEVATION
PIER 27

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FIGURE 4

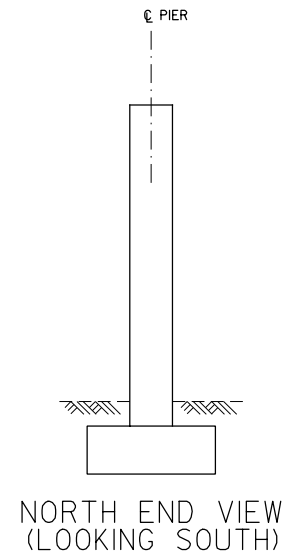
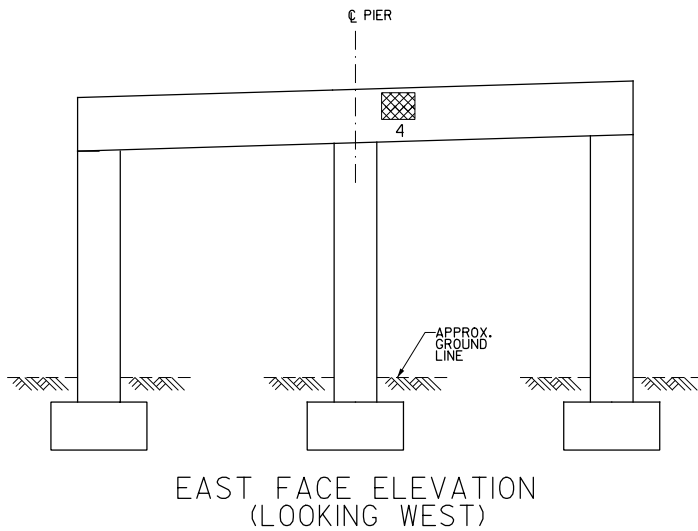


LEGEND

TOTAL
4 SF -

- DENOTES CRACK
- DENOTES DELAM
- DENOTES SPALL
- DENOTES HEAVY ABRASION
- DENOTES PATCH
- Rx EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 4 SF

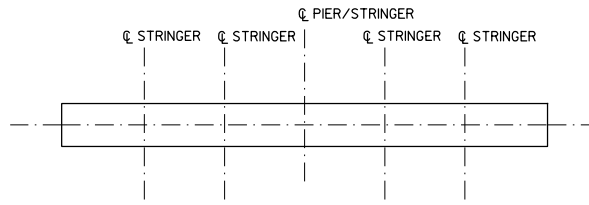


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FIGURE 10



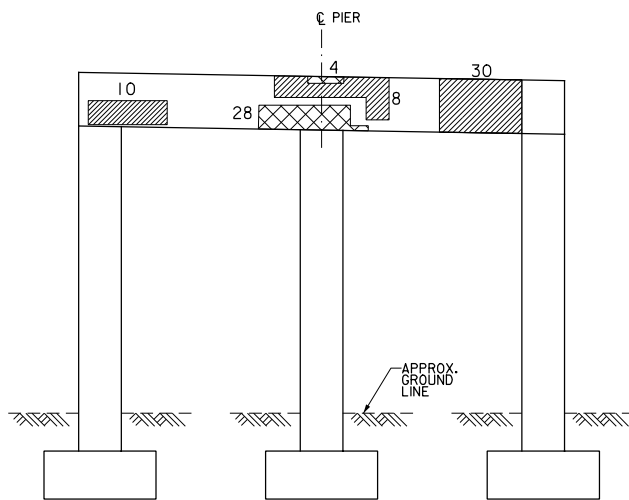
TOP PLAN OF CAP

LEGEND

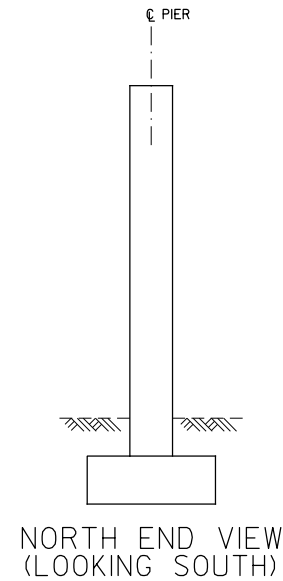
TOTAL

- 32 SF - DENOTES CRACK
- DENOTES DELAM
- DENOTES SPALL
- DENOTES HEAVY ABRASION
- 48 SF - DENOTES PATCH
- Rx EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 32 SF



EAST FACE ELEVATION
(LOOKING WEST)



NORTH END VIEW
(LOOKING SOUTH)

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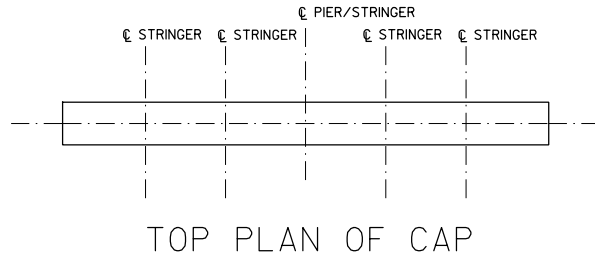
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BRIDGE 63
PLAN AND ELEVATION
PIER 18

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FIGURE 11

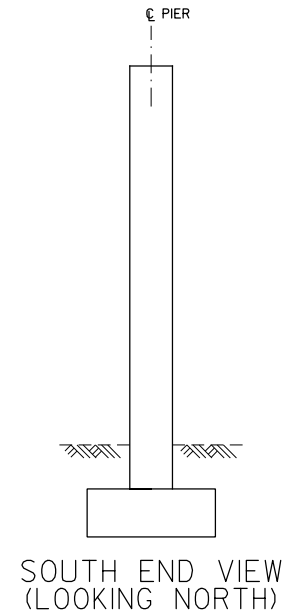
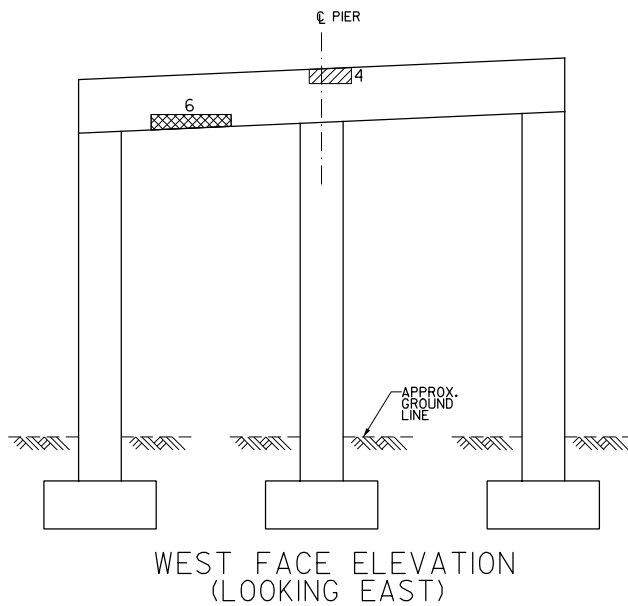


LEGEND

TOTAL

- 6 SF -  DENOTES CRACK
-  DENOTES DELAM
-  DENOTES SPALL
-  DENOTES HEAVY ABRASION
- 4 SF -  DENOTES PATCH
- Rx  EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 6 SF



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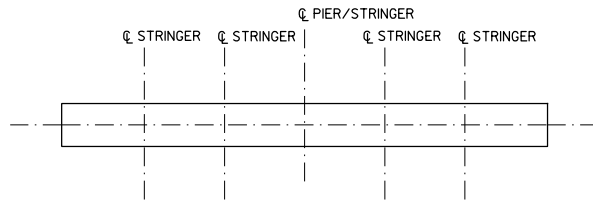
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BRIDGE 63
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PIER 19

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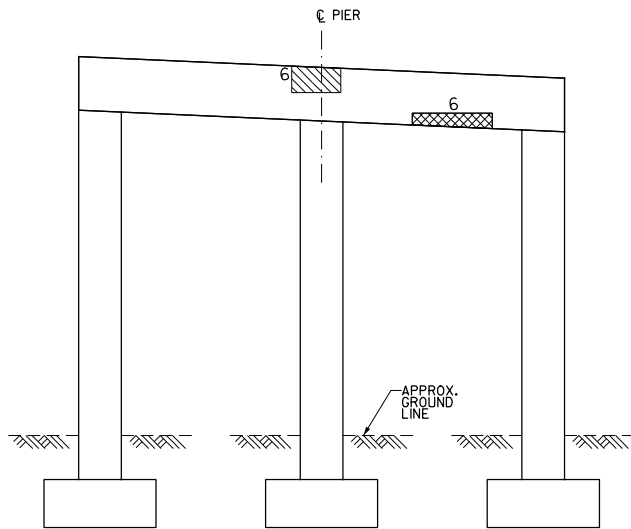


FIGURE 12

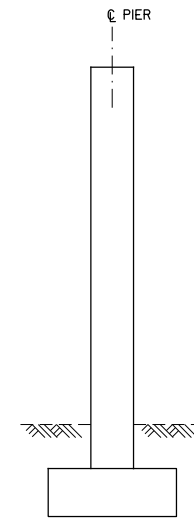


TOP PLAN OF CAP

- LEGEND**
- TOTAL
 - 6 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 6 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 6 SF



EAST FACE ELEVATION
(LOOKING WEST)



NORTH END VIEW
(LOOKING SOUTH)

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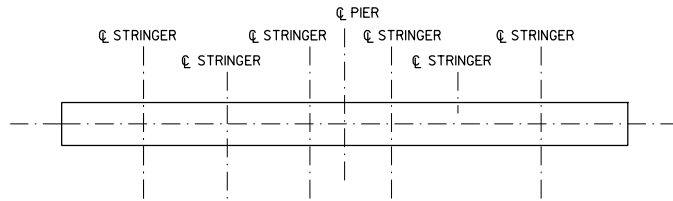
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BRIDGE 63
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PIER 19

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FIGURE 14



TOP PLAN OF CAP

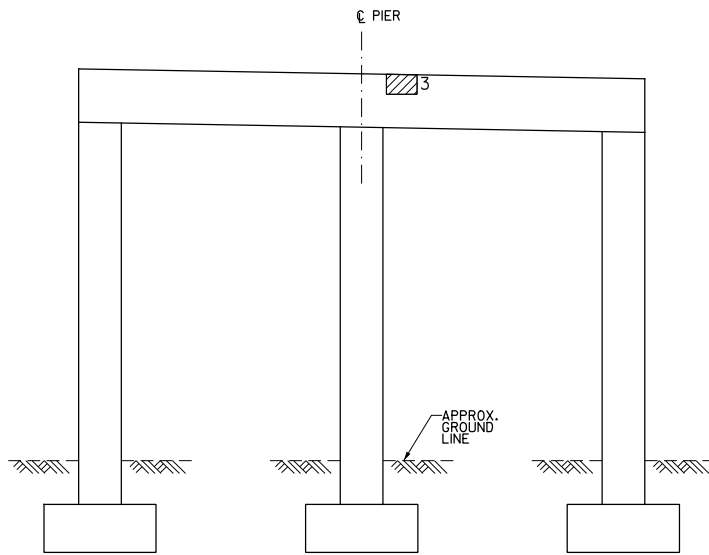
LEGEND

TOTAL

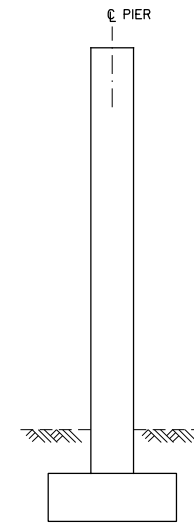
- DENOTES CRACK
- DENOTES DELAM
- DENOTES SPALL
- DENOTES HEAVY ABRASION
- DENOTES PATCH
- Rx EXPOSED REINFORCING

3 SF -

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 3 SF



EAST FACE ELEVATION
(LOOKING WEST)



NORTH END VIEW
(LOOKING SOUTH)

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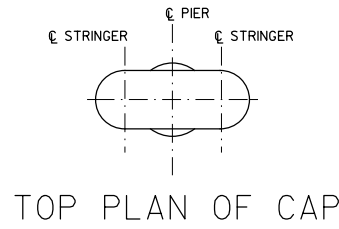


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BRIDGE 63
PLAN AND ELEVATION
PIER 20

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FIGURE 2

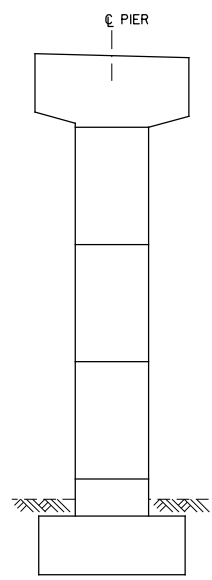


TOTAL
15 SF -

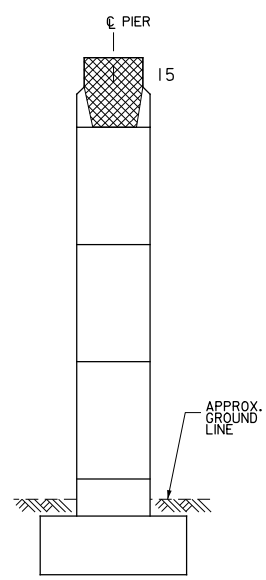
LEGEND

- DENOTES CRACK
- DENOTES DELAM
- DENOTES SPALL
- DENOTES HEAVY ABRASION
- DENOTES PATCH
- EXPOSED REINFORCING

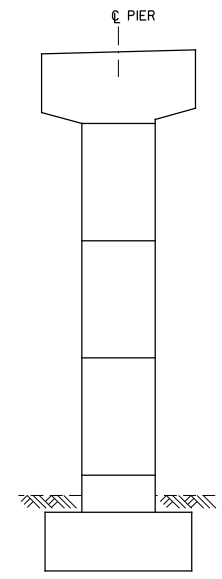
TOTAL PIER APPROXIMATE
DETERIORATED AREA - 15 SF



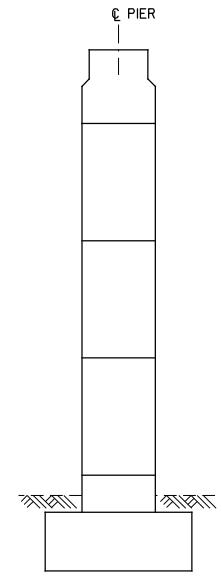
NORTH FACE ELEVATION
(LOOKING SOUTH)



WEST END VIEW
(LOOKING EAST)



SOUTH FACE ELEVATION
(LOOKING NORTH)



EAST END VIEW
(LOOKING WEST)

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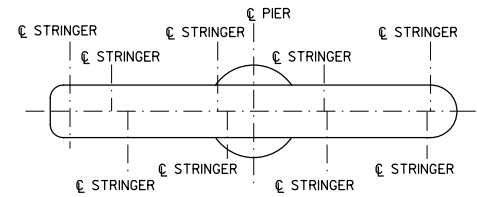
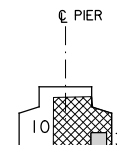
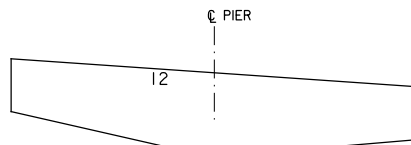
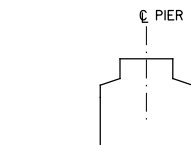
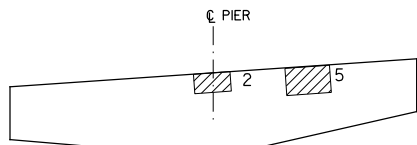
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BRIDGE 64
PLAN AND ELEVATION
PIER 13W

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TOP PLAN OF CAP

FIGURE 7

- LEGEND**
- TOTAL
 - 10 SF - DENOTES CRACK
 - 3 SF - DENOTES DELAM
 - 3 SF - DENOTES SPALL
 - 19 SF - DENOTES HEAVY ABRASION
 - 19 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 13 SF

SOUTH FACE ELEVATION
(LOOKING NORTH)

EAST END VIEW
(LOOKING WEST)

NORTH FACE ELEVATION
(LOOKING SOUTH)

WEST END VIEW
(LOOKING EAST)

APPROX.
GROUND
LINE

NO.	DATE	REVISIONS

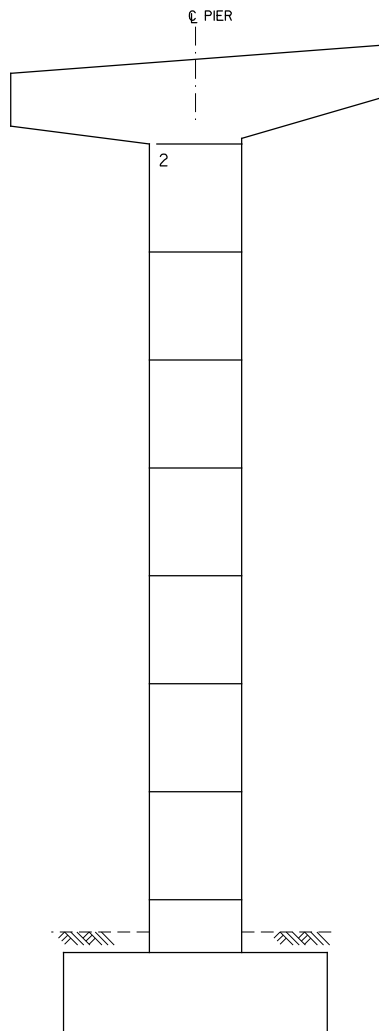


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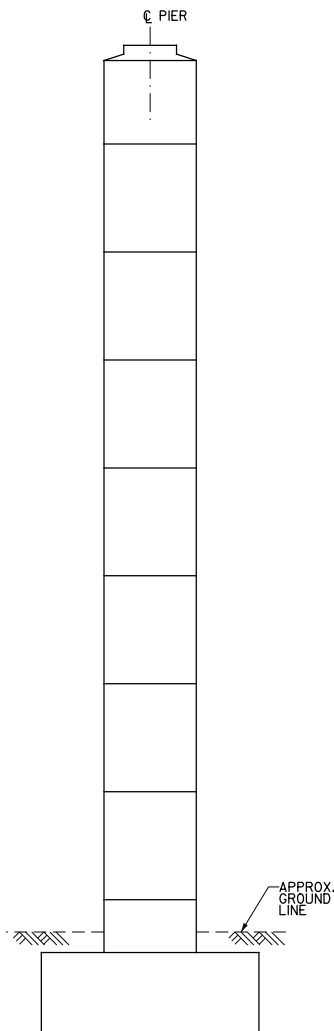
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BRIDGE 64
PLAN AND ELEVATION
PIER 3

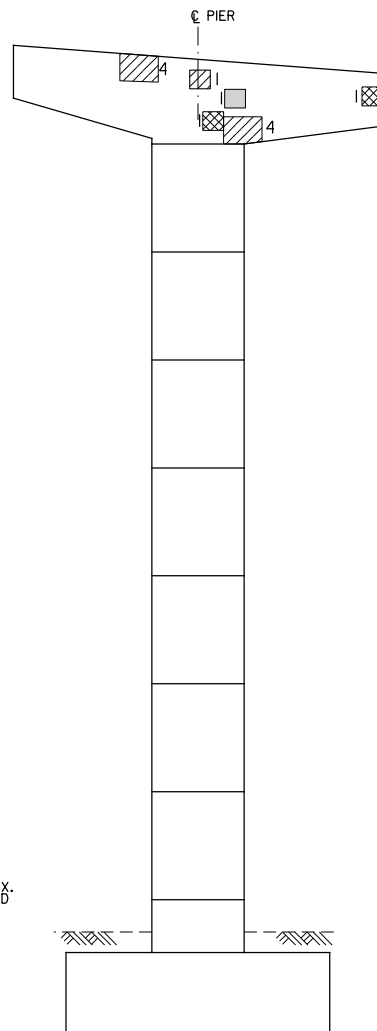
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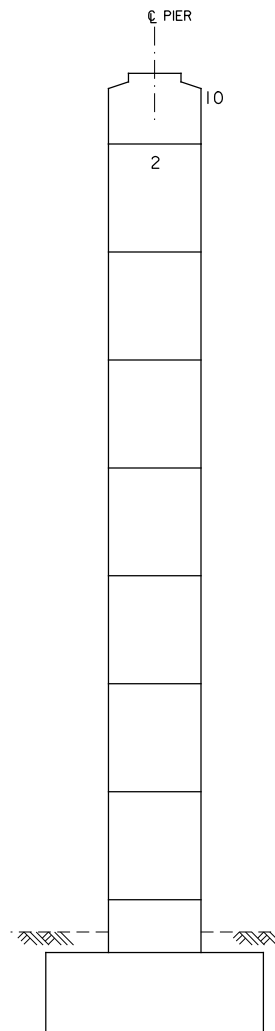
SOUTH FACE ELEVATION
(LOOKING NORTH)



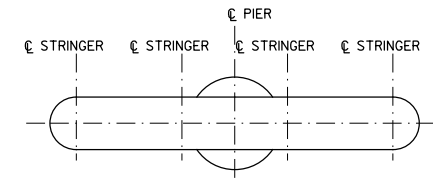
EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



WEST END VIEW
(LOOKING EAST)



TOP PLAN OF CAP

FIGURE 8

- LEGEND**
- TOTAL
- 2 SF - DENOTES CRACK
 - 1 SF - DENOTES DELAM
 - 1 SF - DENOTES SPALL
 - 23 SF - DENOTES HEAVY ABRASION
 - 23 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 1 SF

NO.	REVISIONS

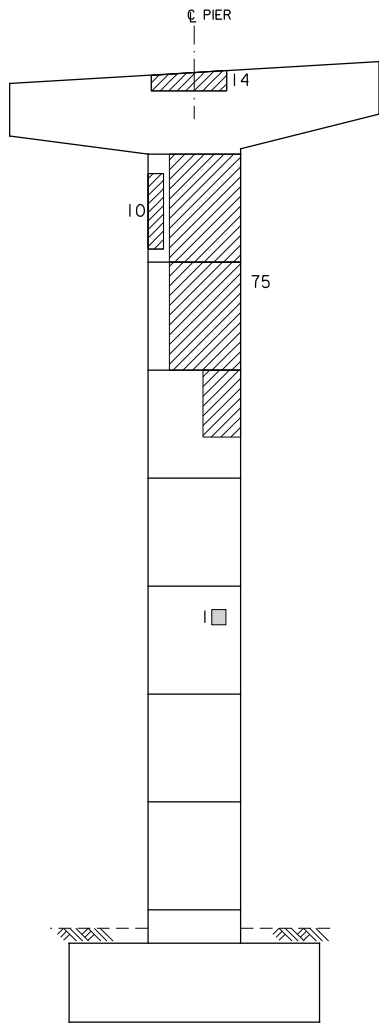


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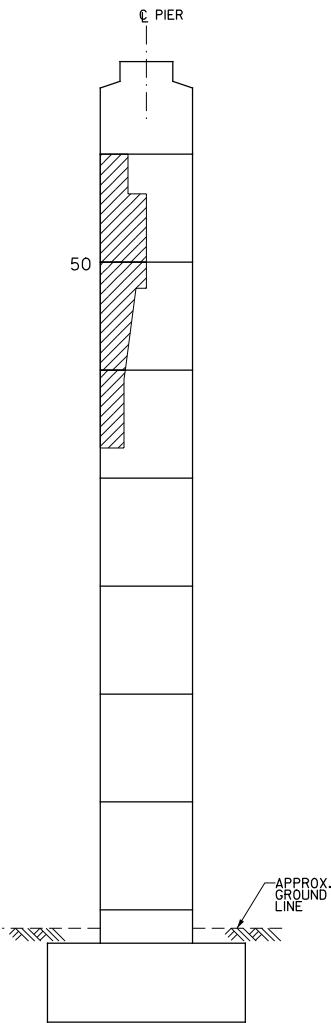
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PIER 4

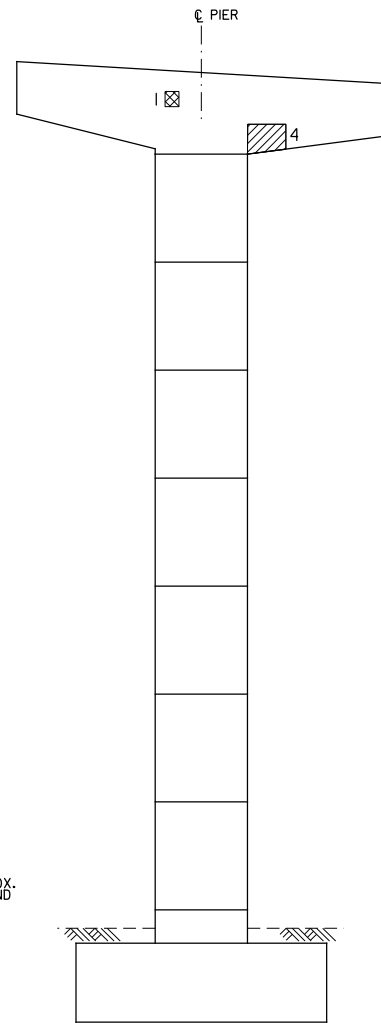
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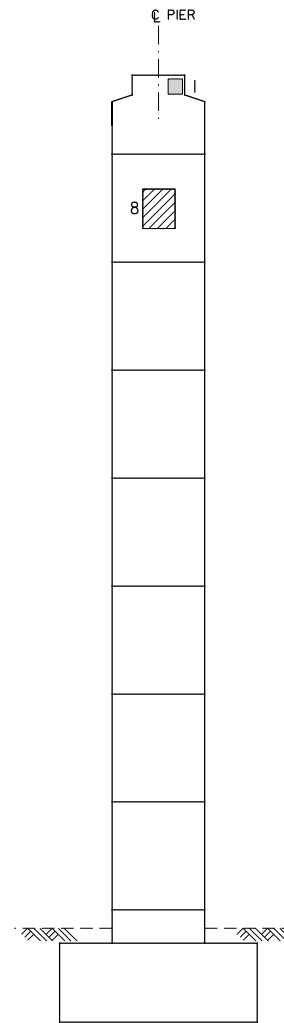
SOUTH FACE ELEVATION
(LOOKING NORTH)



EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



WEST END VIEW
(LOOKING EAST)

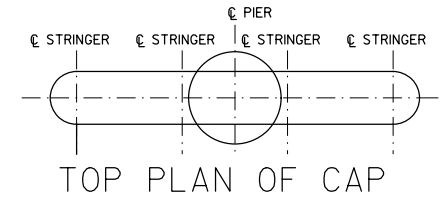
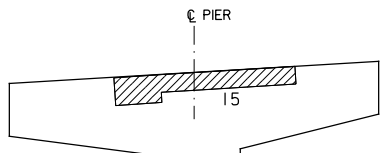


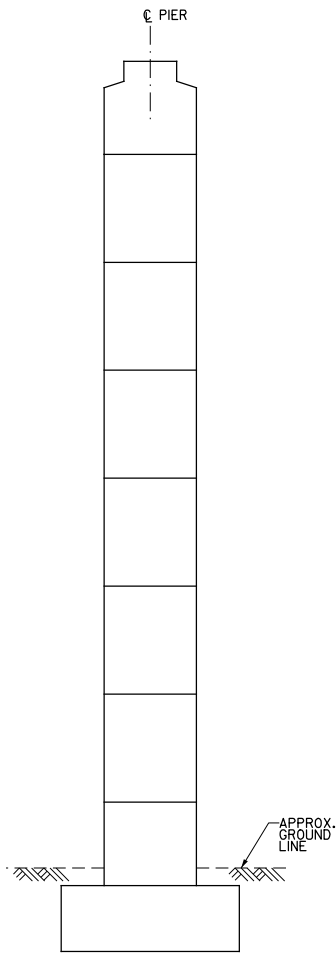
FIGURE 10

- LEGEND**
- TOTAL
- 1 SF - DENOTES CRACK
 - 2 SF - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 161 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 3 SF

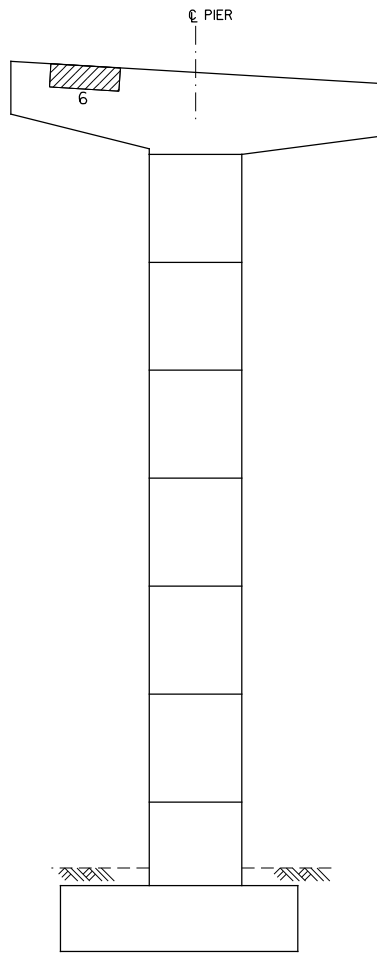
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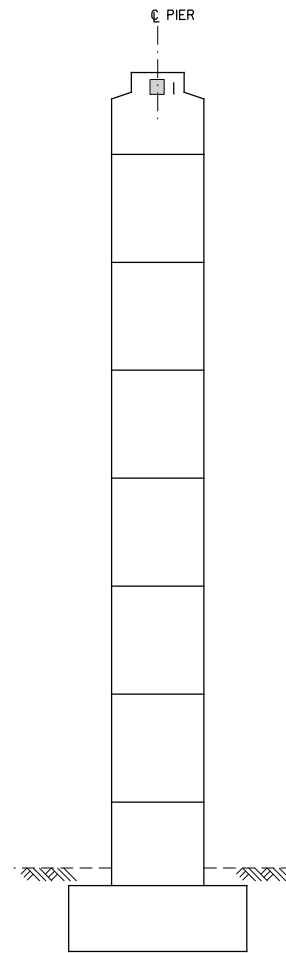
SOUTH FACE ELEVATION
(LOOKING NORTH)



EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



WEST END VIEW
(LOOKING EAST)

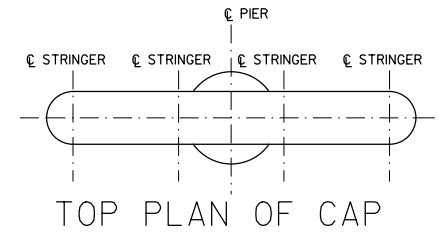


FIGURE 11

- LEGEND**
- TOTAL
- DENOTES CRACK
 - DENOTES DELAM
 - 1 SF - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 21 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 1 SF

NO.	DATE	DESCRIPTION

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PIER 6

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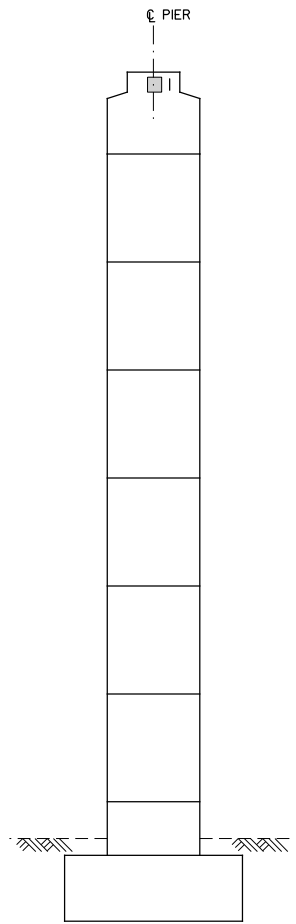
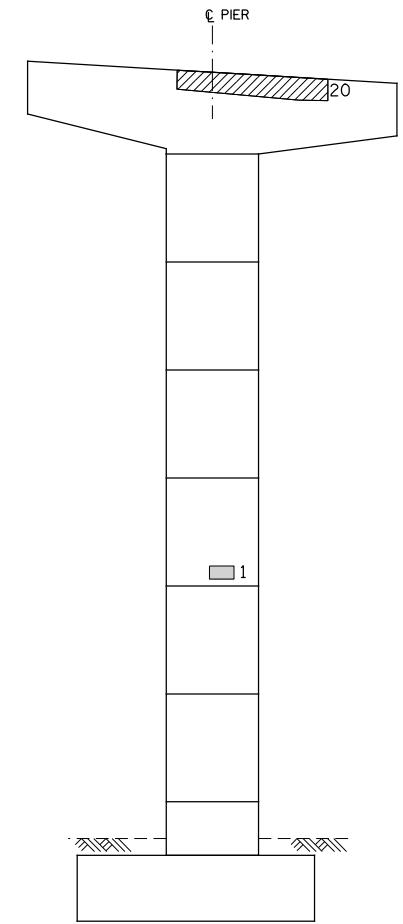
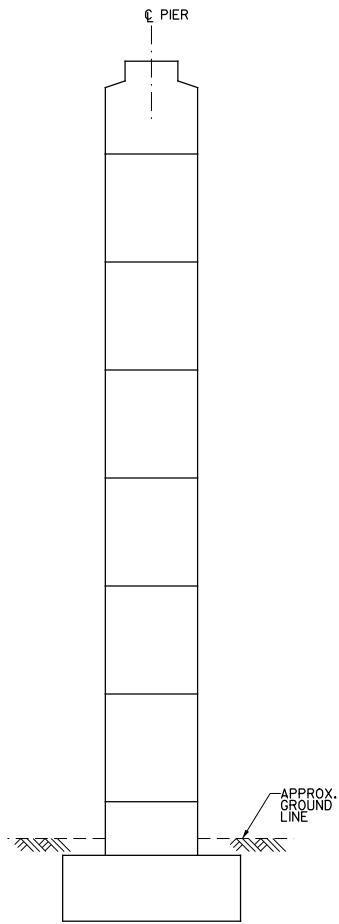
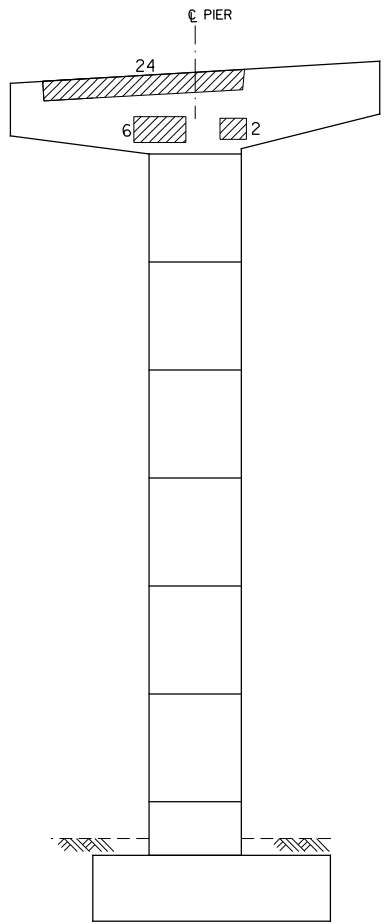
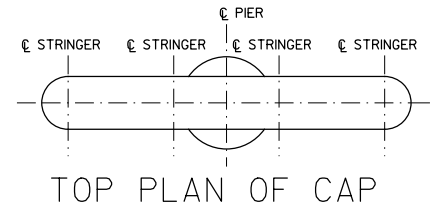


FIGURE 12

- LEGEND**
- TOTAL DENOTES CRACK
 - 2 SF - DENOTES DELAM
 - 52 SF - DENOTES SPALL
 - 52 SF - DENOTES HEAVY ABRASION
 - 52 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 2 SF

SOUTH FACE ELEVATION
(LOOKING NORTH)

EAST END VIEW
(LOOKING WEST)

NORTH FACE ELEVATION
(LOOKING SOUTH)

WEST END VIEW
(LOOKING EAST)

NO.	REVISIONS

APPROX.
GROUND
LINE

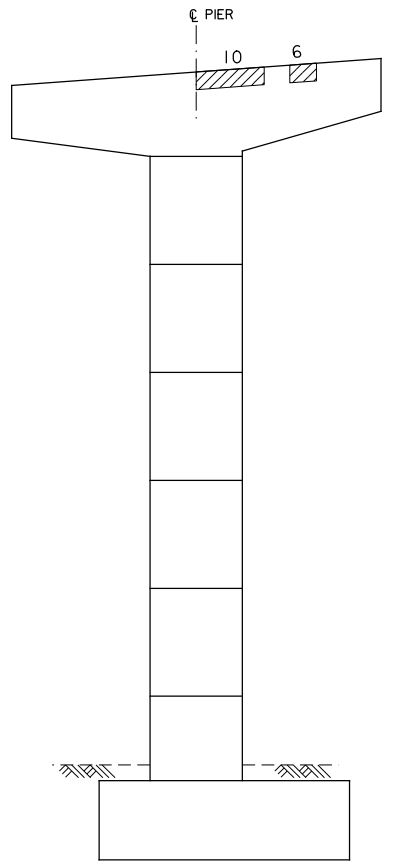
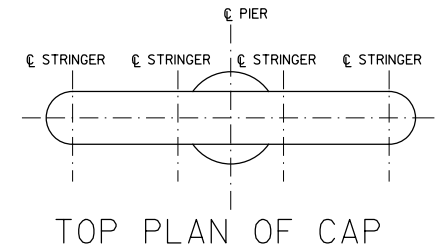
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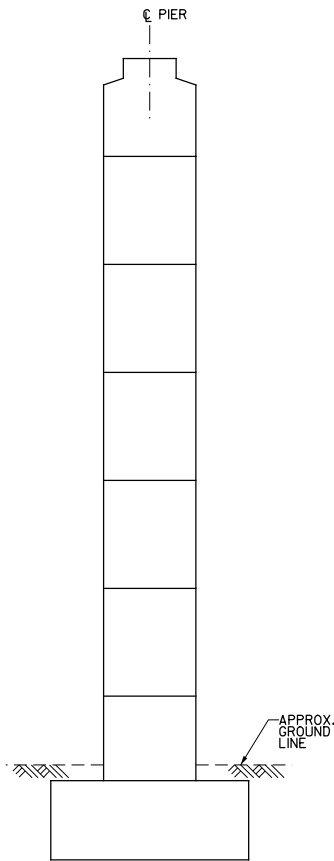
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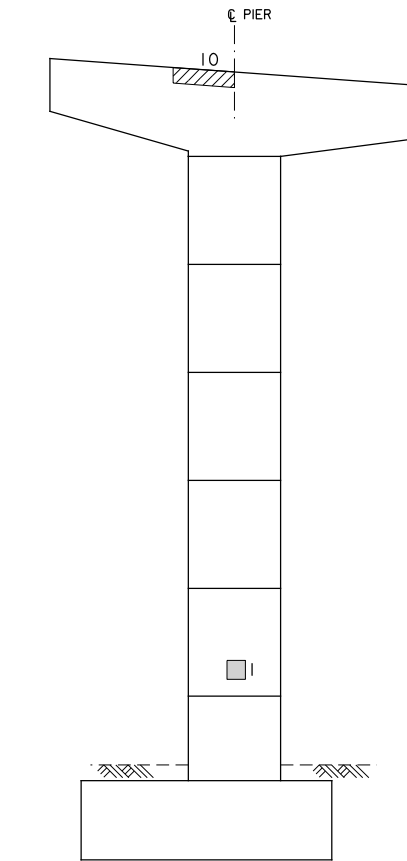
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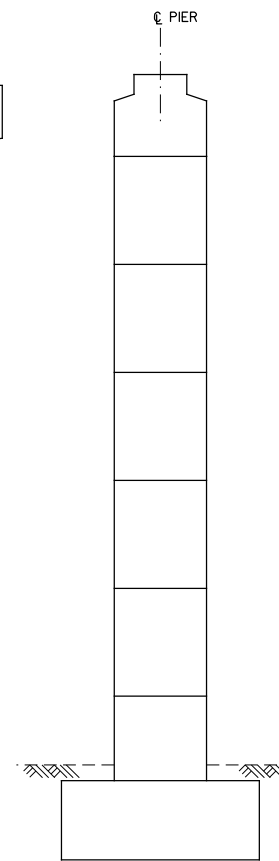
SOUTH FACE ELEVATION
(LOOKING NORTH)



EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



WEST END VIEW
(LOOKING EAST)

FIGURE 13

- LEGEND**
- TOTAL
 - DENOTES CRACK
 - DENOTES DELAM
 - 1 SF - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 26 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
 - TOTAL PIER APPROXIMATE
DETERIORATED AREA - 1 SF

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BRIDGE 64
PLAN AND ELEVATION
PIER 8

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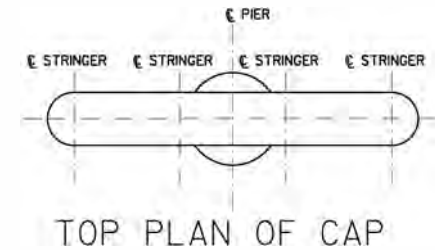
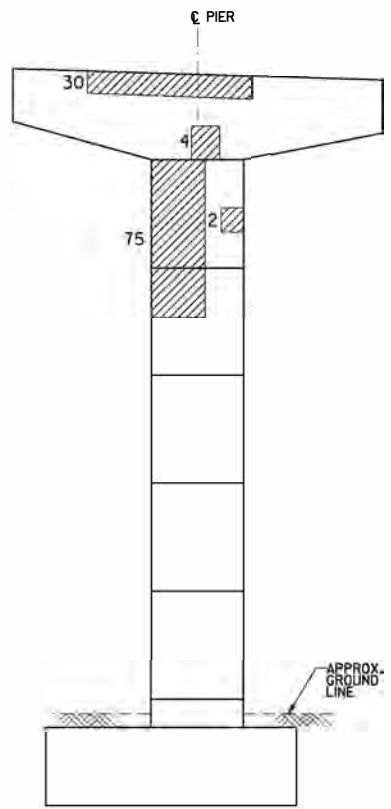
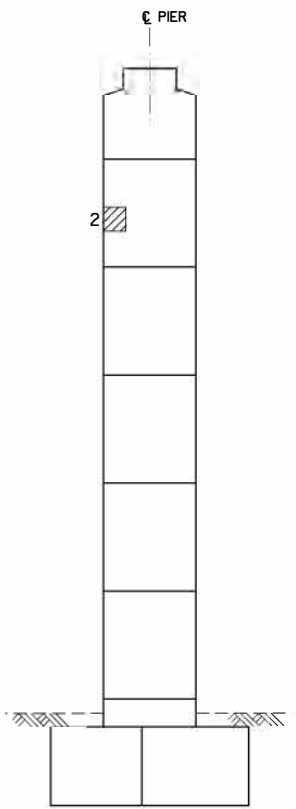


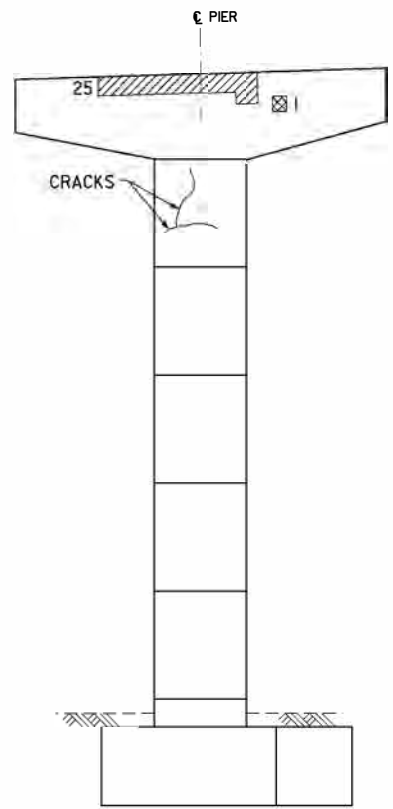
FIGURE 14



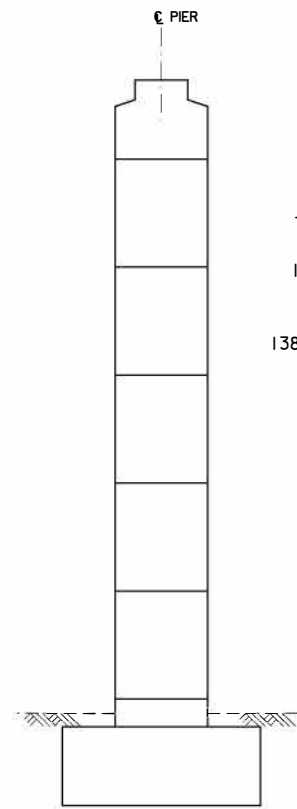
SOUTH FACE ELEVATION
(LOOKING NORTH)



EAST END VIEW
(LOOKING WEST)



NORTH FACE ELEVATION
(LOOKING SOUTH)



WEST END VIEW
(LOOKING EAST)

- LEGEND**
- TOTAL
 - 1 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 138 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 1 SF

NO.	REVISIONS



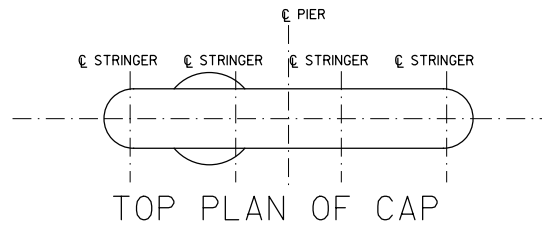
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BRIDGE 64
PLAN AND ELEVATION
PIER 9

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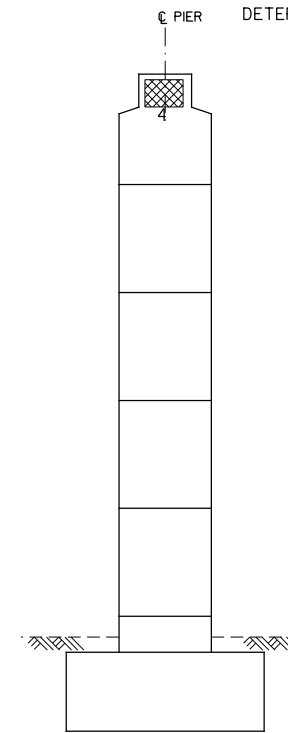
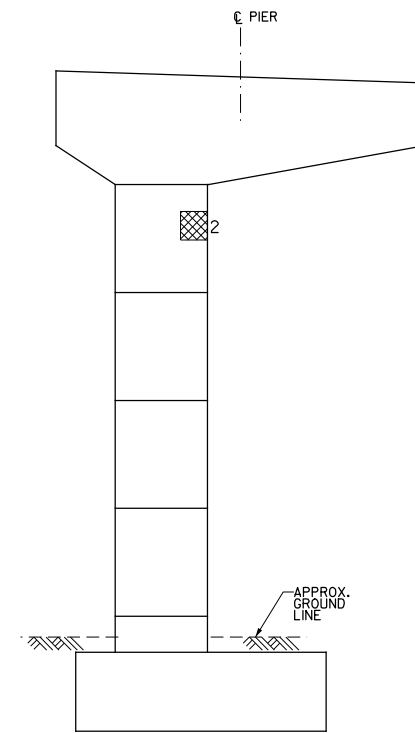
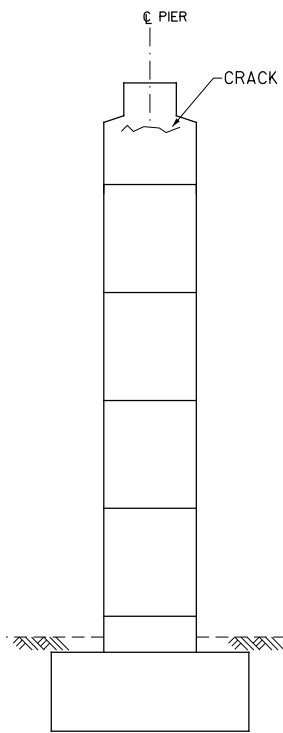
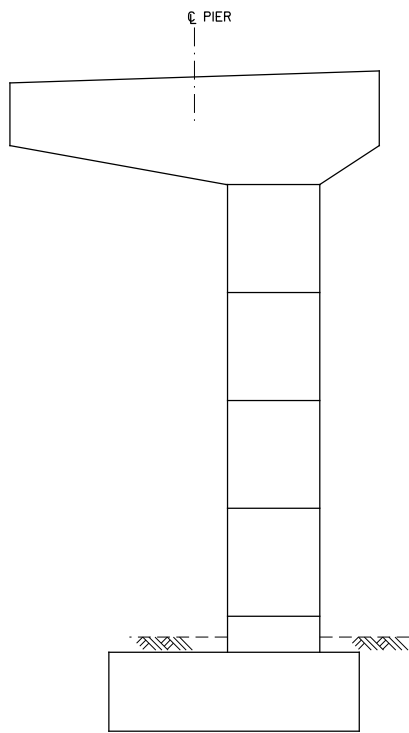
FIGURE 15



LEGEND

- ~ DENOTES CRACK
- 6 SF - [Cross-hatch pattern] DENOTES DELAM
- [Solid grey] DENOTES SPALL
- [Diagonal lines /] DENOTES HEAVY ABRASION
- [Diagonal lines \] DENOTES PATCH
- Rx EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 6 SF



SOUTH FACE ELEVATION (LOOKING NORTH)

EAST END VIEW (LOOKING WEST)

NORTH FACE ELEVATION (LOOKING SOUTH)

WEST END VIEW (LOOKING EAST)

NO.	REVISIONS

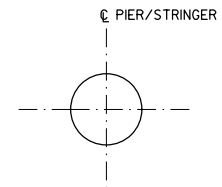
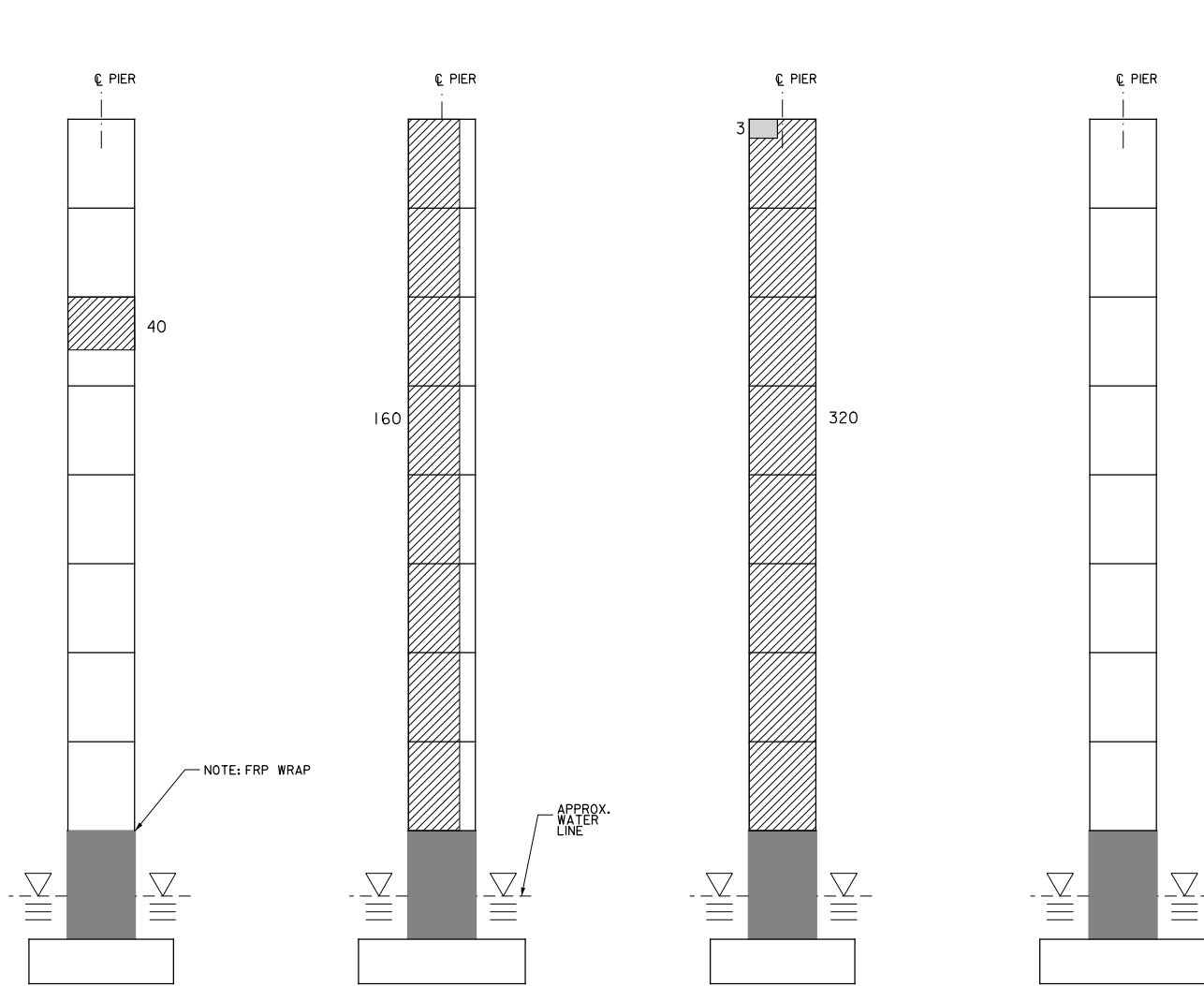
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BRIDGE 64
PLAN AND ELEVATION
PIER 10

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TOP PLAN OF CAP

FIGURE 1

- LEGEND**
- TOTAL
 - 3 SF - DENOTES SPALL
 - 520 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
 - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES HEAVY ABRASION
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 3 SF

NORTH FACE ELEVATION
(LOOKING SOUTH)

EAST END VIEW
(LOOKING WEST)

SOUTH FACE ELEVATION
(LOOKING NORTH)

WEST END VIEW
(LOOKING EAST)

NOTE: FRP WRAP

APPROX.
WATER
LINE

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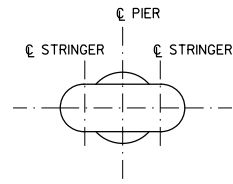
BRIDGE 65
PLAN AND ELEVATION
PIER 1

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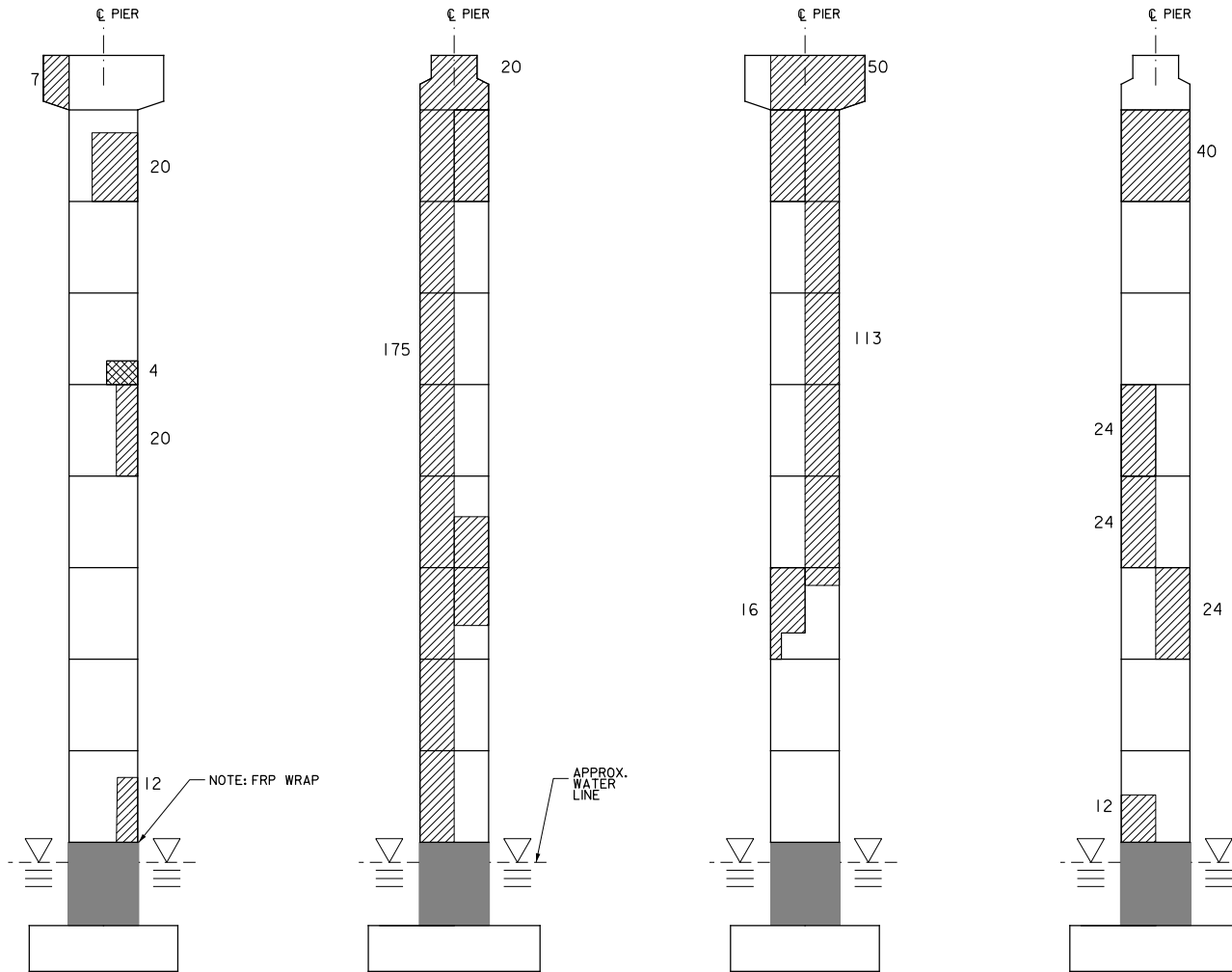
REVISIONS	



TOP PLAN OF CAP

FIGURE 2

- LEGEND**
- TOTAL
 - 4 SF - DENOTES CRACK
 - 4 SF - DENOTES DELAM
 - 4 SF - DENOTES SPALL
 - 4 SF - DENOTES HEAVY ABRASION
 - 557 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 4 SF



NORTH FACE ELEVATION
(LOOKING SOUTH)

EAST END VIEW
(LOOKING WEST)

SOUTH FACE ELEVATION
(LOOKING NORTH)

WEST END VIEW
(LOOKING EAST)

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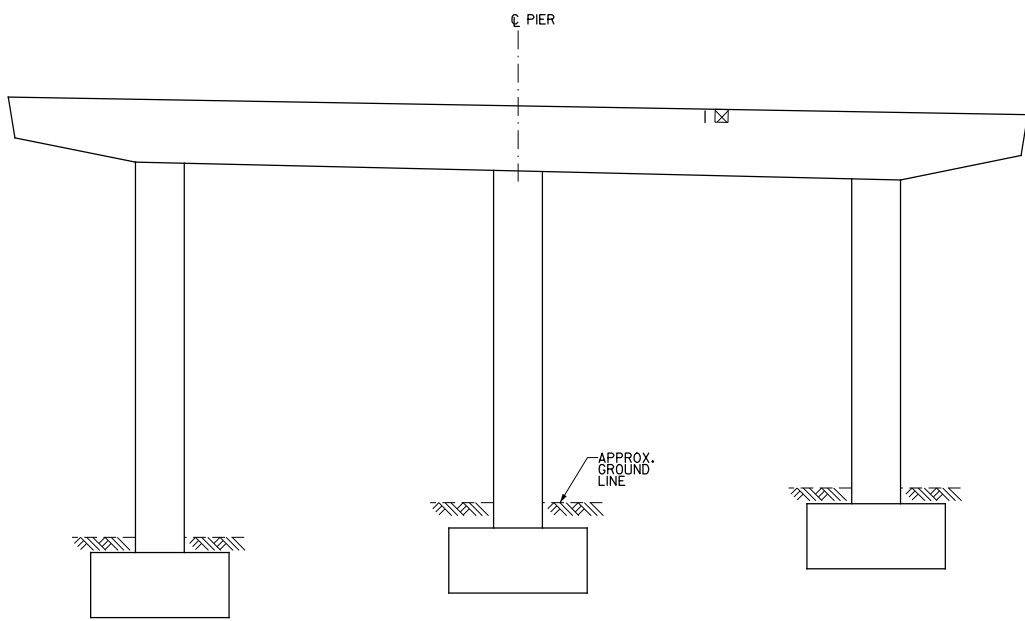
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NO.	DATE	REVISIONS

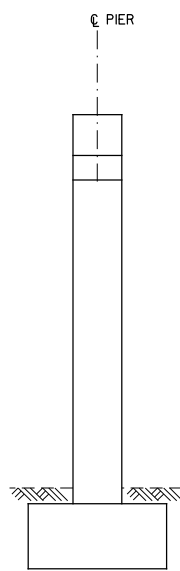
FIGURE 4



- LEGEND**
- TOTAL
 - 1 SF -
 - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - DENOTES PATCH
 - Rx EXPOSED REINFORCING
 - TOTAL PIER APPROXIMATE
DETERIORATED AREA - 1 SF



EAST FACE ELEVATION
(LOOKING WEST)



NORTH END VIEW
(LOOKING SOUTH)

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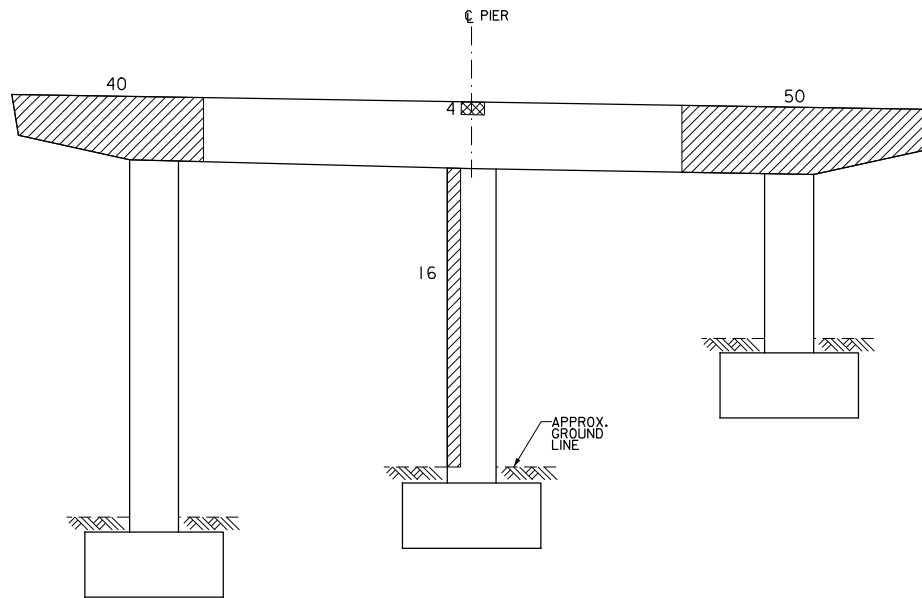
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PLAN AND ELEVATION
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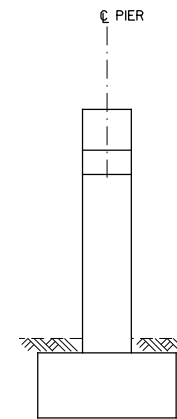


FIGURE 6

- LEGEND**
- TOTAL
 - 4 SF - DENOTES DELAM
 - 106 SF - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 4 SF



EAST FACE ELEVATION
(LOOKING WEST)



NORTH END VIEW
(LOOKING SOUTH)

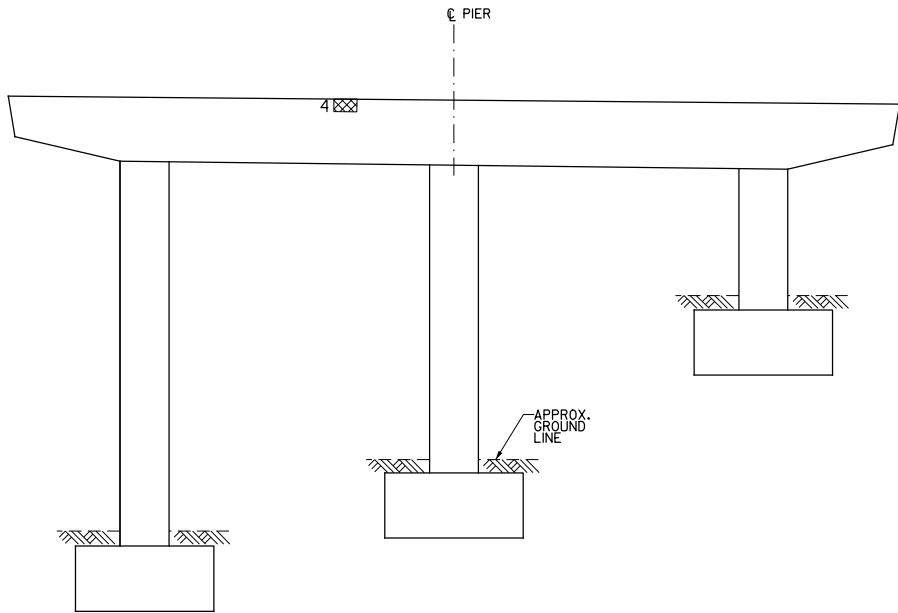
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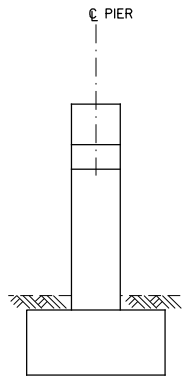
FIGURE 8



- LEGEND**
- TOTAL DENOTES CRACK
 - 4 SF - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 4 SF



EAST FACE ELEVATION
(LOOKING WEST)



NORTH END VIEW
(LOOKING SOUTH)

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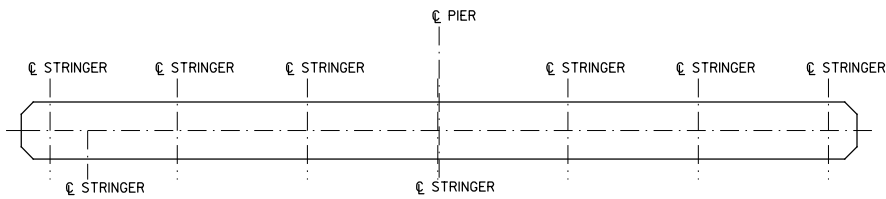
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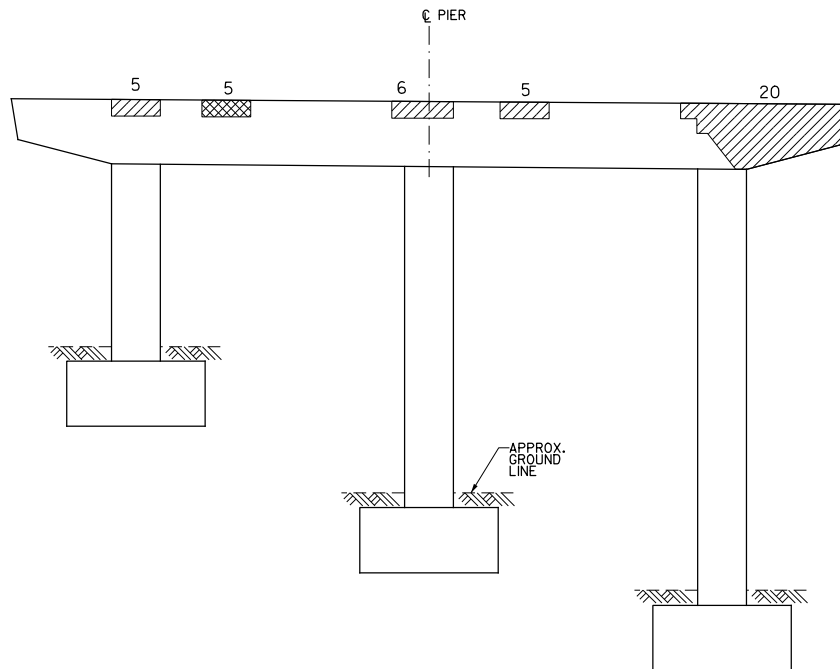
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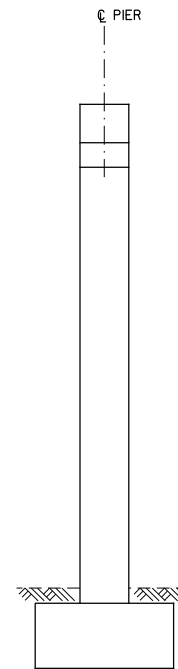
TOP PLAN OF CAP

FIGURE 11

- LEGEND**
- TOTAL
 - 5 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 36 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
 - TOTAL PIER APPROXIMATE
DETERIORATED AREA - 5 SF



WEST FACE ELEVATION
(LOOKING EAST)



SOUTH END VIEW
(LOOKING NORTH)

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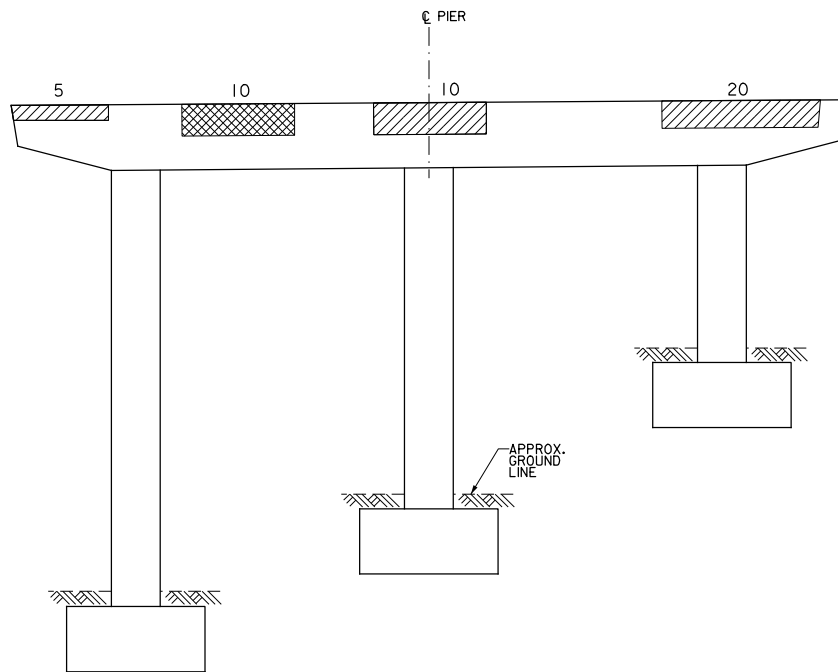
BRIDGE 66
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PIER 6

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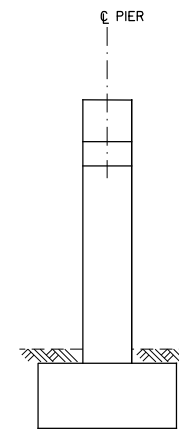


FIGURE 12

- LEGEND**
- TOTAL
 - 10 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 35 SF - DENOTES PATCH
 - Rx DENOTES EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 10 SF



EAST FACE ELEVATION
(LOOKING WEST)



NORTH END VIEW
(LOOKING SOUTH)

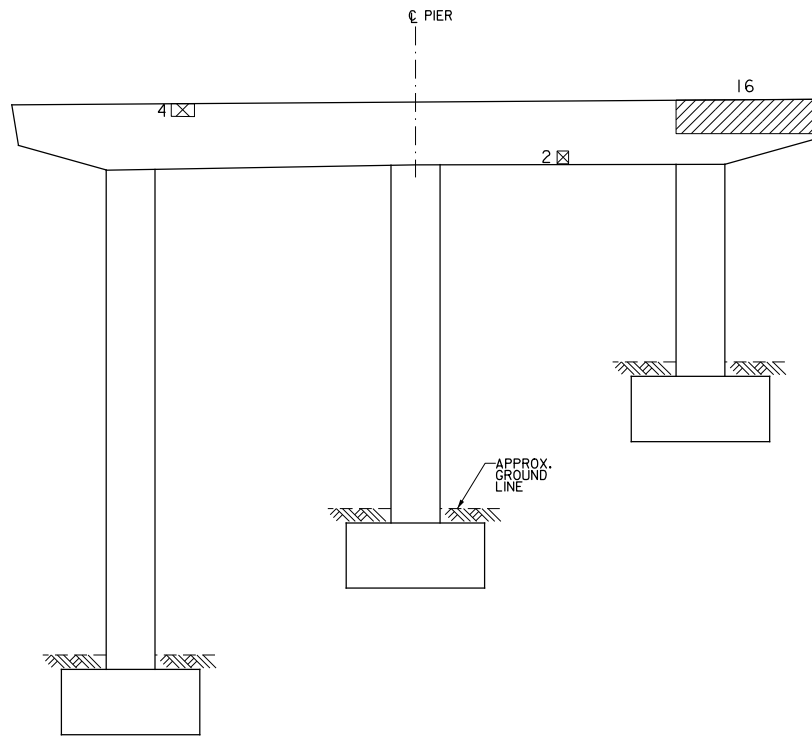
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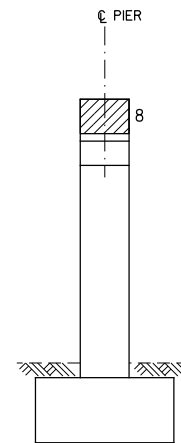
FIGURE 14



- LEGEND**
- TOTAL
 - 6 SF - DENOTES CRACK
 - 6 SF - DENOTES DELAM
 - 6 SF - DENOTES SPALL
 - 24 SF - DENOTES HEAVY ABRASION
 - 24 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 6 SF



EAST FACE ELEVATION
(LOOKING WEST)

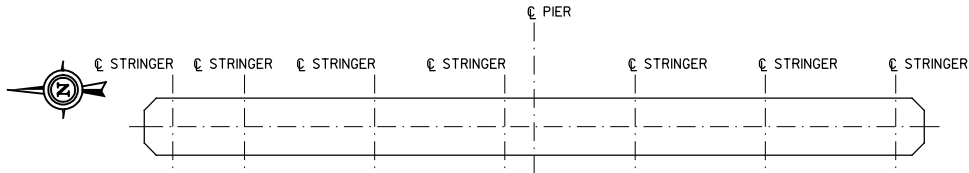


NORTH END VIEW
(LOOKING SOUTH)

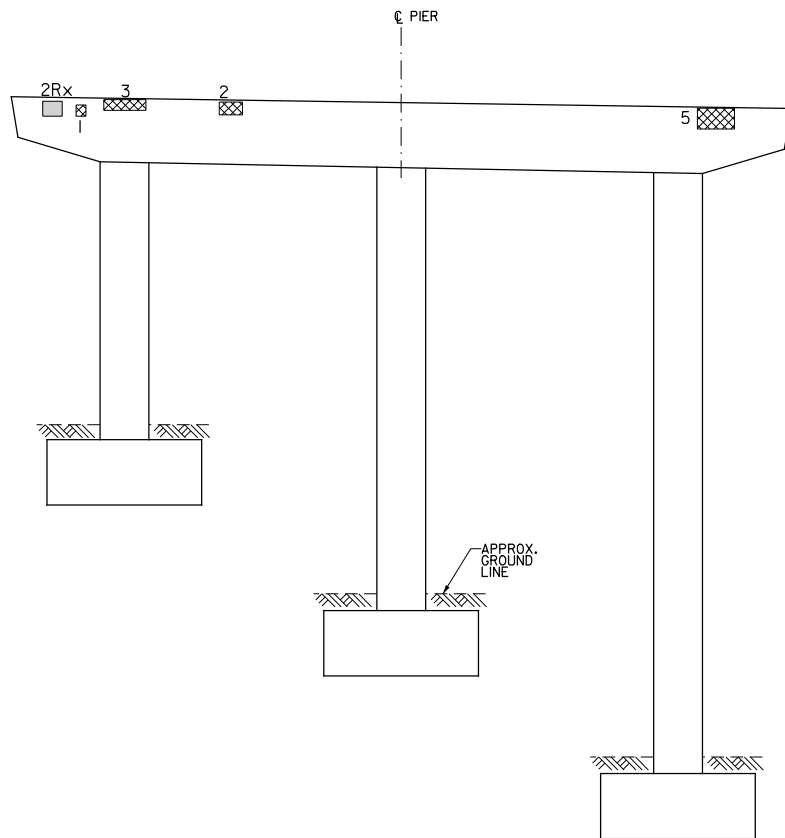
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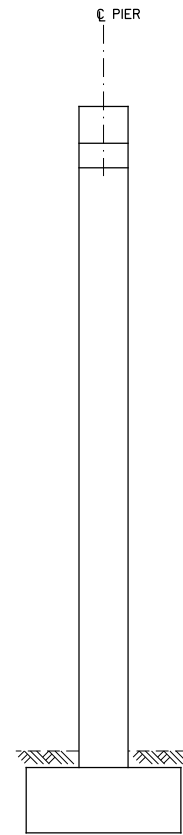
FIGURE 15



TOP PLAN OF CAP



WEST FACE ELEVATION
(LOOKING EAST)



SOUTH END VIEW
(LOOKING NORTH)

- LEGEND**
- ~ DENOTES CRACK
 - 11 SF - [Cross-hatch pattern] DENOTES DELAM
 - [Solid grey pattern] DENOTES SPALL
 - [Horizontal line pattern] DENOTES HEAVY ABRASION
 - [Diagonal line pattern] DENOTES PATCH
 - 2 SF - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 13 SF

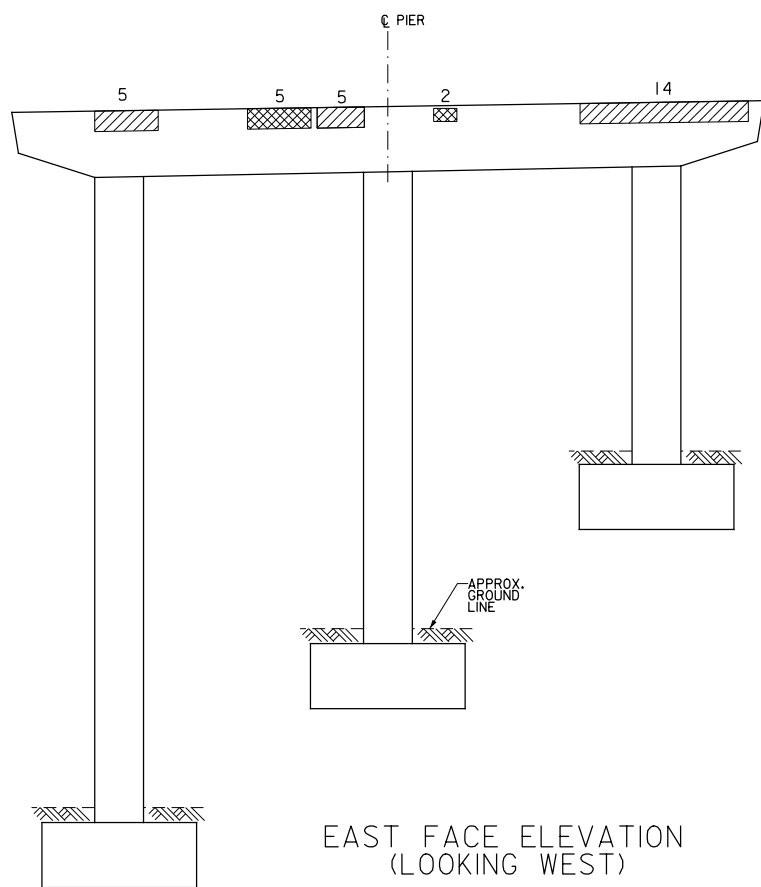
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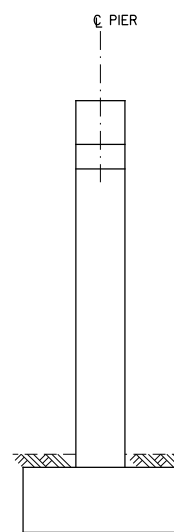


FIGURE 18

- LEGEND**
- TOTAL DENOTES CRACK
 - 7 SF - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 24 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 7 SF



EAST FACE ELEVATION
(LOOKING WEST)

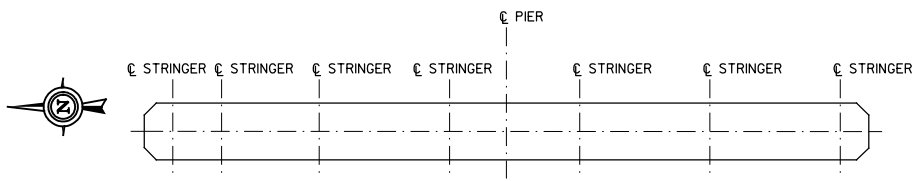


NORTH END VIEW
(LOOKING SOUTH)

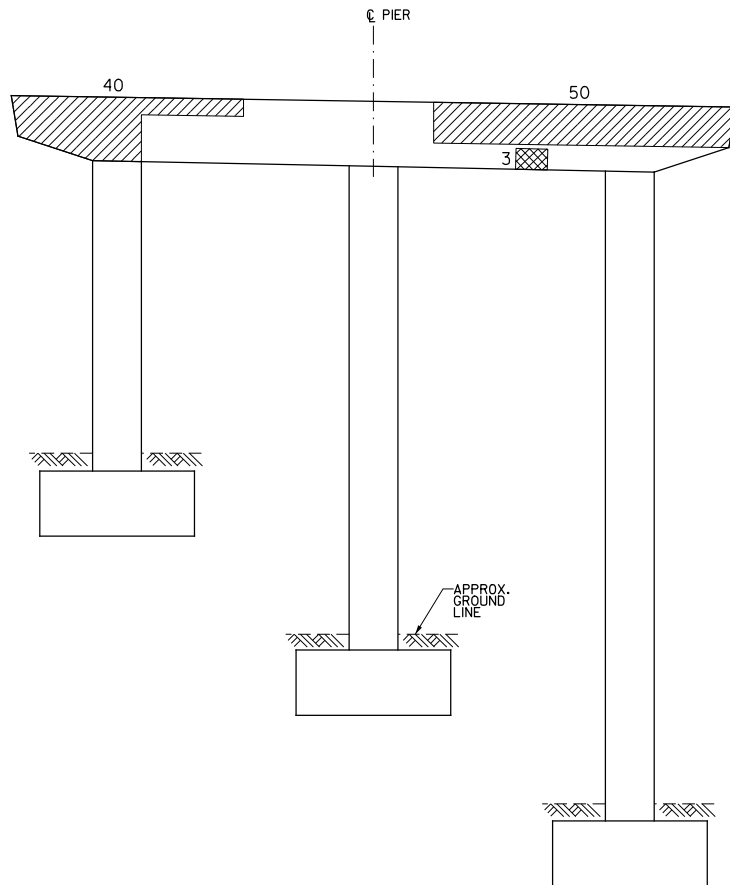
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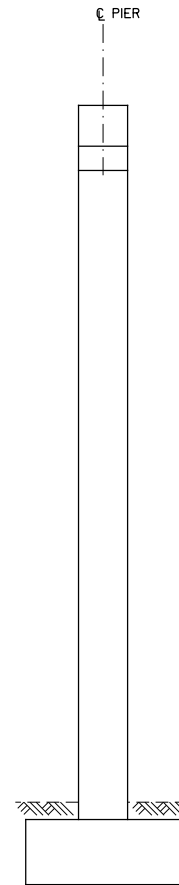
FIGURE 19



TOP PLAN OF CAP



WEST FACE ELEVATION
(LOOKING EAST)



SOUTH END VIEW
(LOOKING NORTH)

- LEGEND**
- TOTAL
 - 3 SF - DENOTES CRACK
 - 90 SF - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 3 SF

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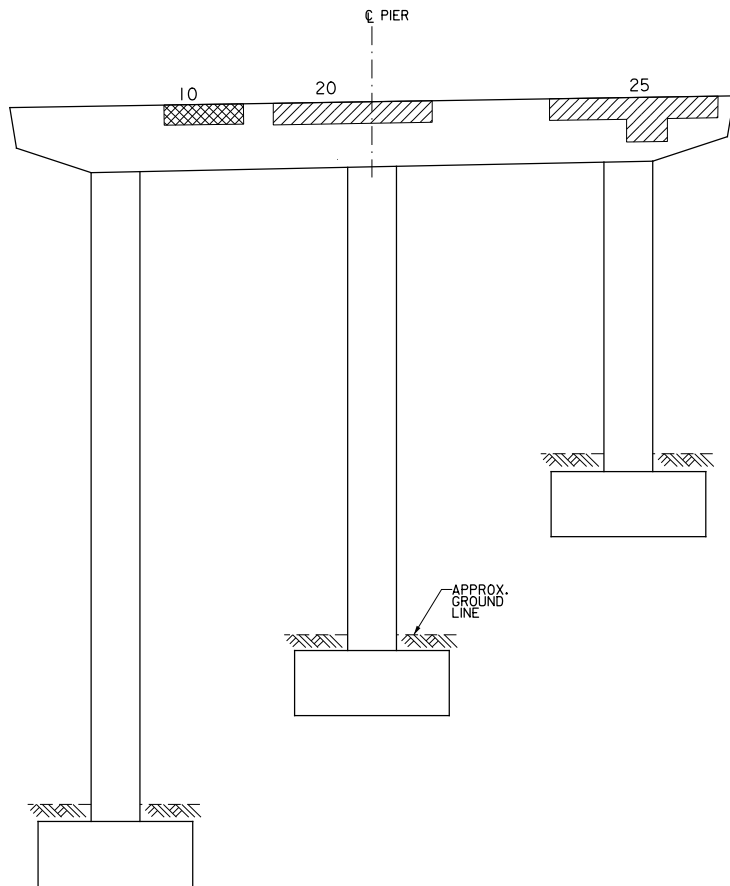
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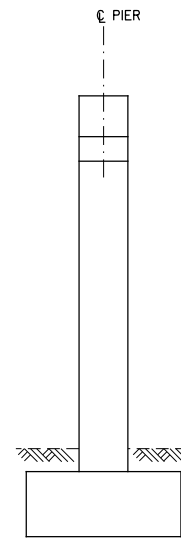


FIGURE 20

- LEGEND**
- TOTAL
 - 10 SF - DENOTES DELAM
 - 45 SF - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - DENOTES PATCH
 - Rx EXPOSED REINFORCING
 - DENOTES CRACK
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 10 SF



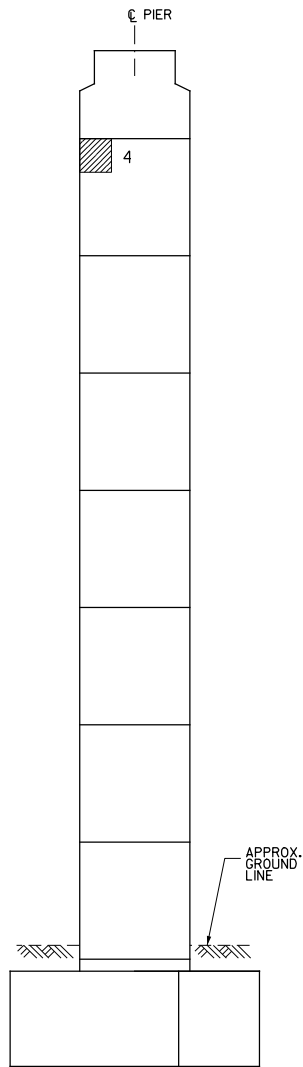
EAST FACE ELEVATION
(LOOKING WEST)



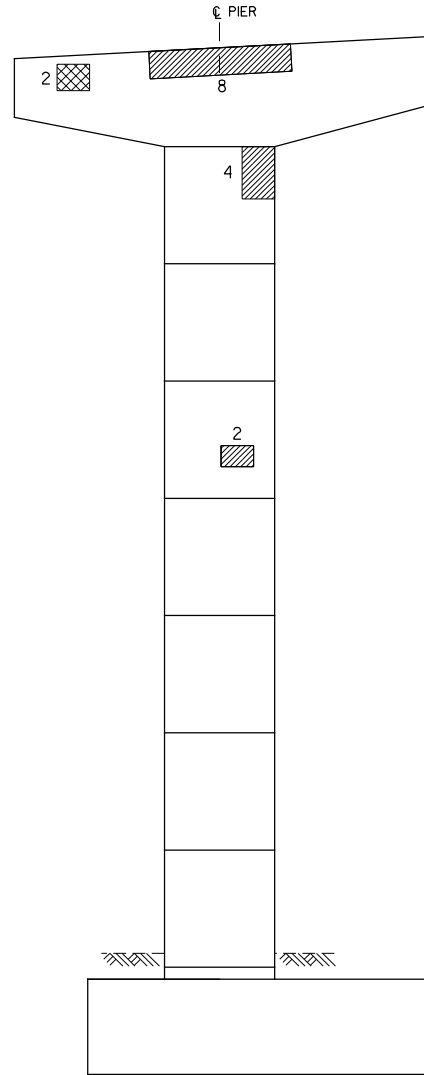
NORTH END VIEW
(LOOKING SOUTH)

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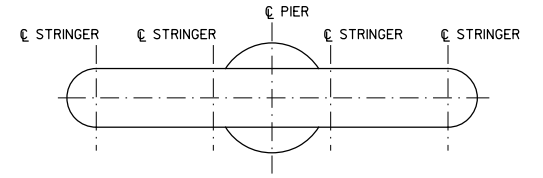




EAST END VIEW
(LOOKING WEST)



SOUTH FACE ELEVATION
(LOOKING NORTH)



TOP PLAN OF CAP

FIGURE 1

- LEGEND**
- TOTAL
- 2 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 18 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 2 SF

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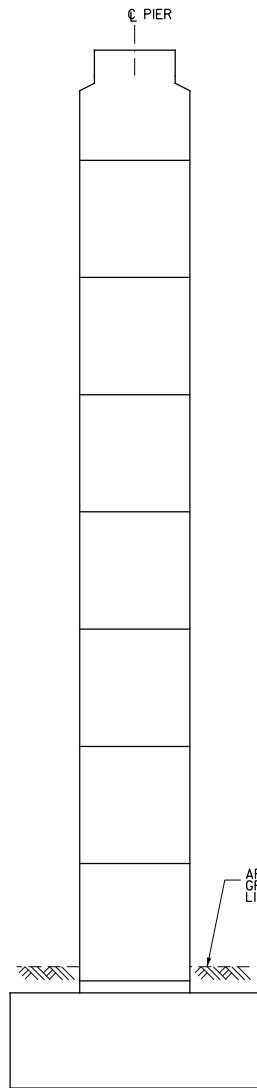
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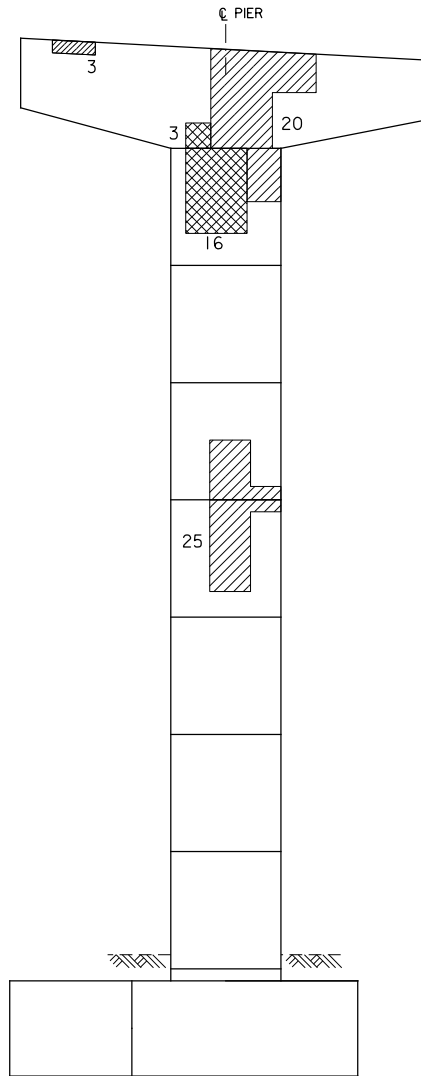
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FIGURE 2



WEST END VIEW
(LOOKING EAST)

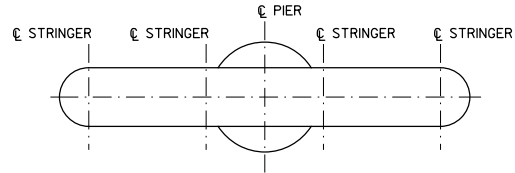


NORTH FACE ELEVATION
(LOOKING SOUTH)

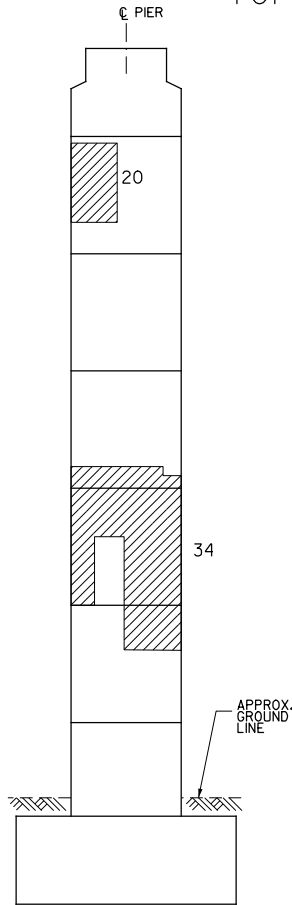
- LEGEND**
- ~ DENOTES CRACK
 - 19 SF - [Cross-hatch pattern] DENOTES DELAM
 - [Diagonal hatch pattern] DENOTES SPALL
 - [Horizontal hatch pattern] DENOTES HEAVY ABRASION
 - 48 SF - [Diagonal hatch pattern] DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 19 SF

NO.	REVISIONS

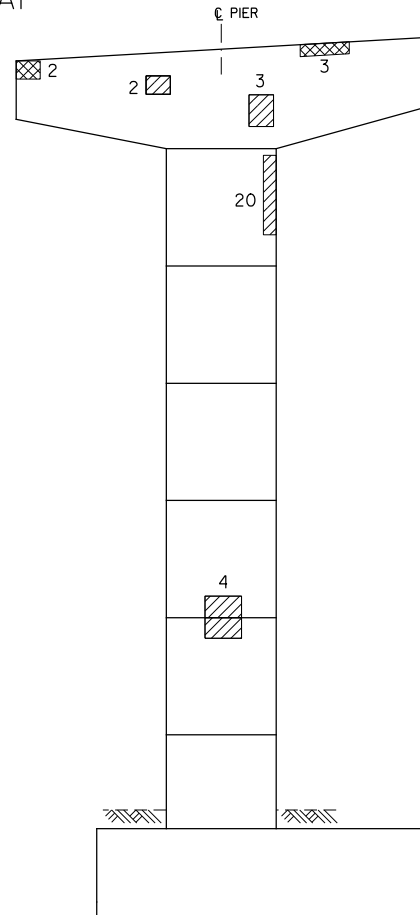




TOP PLAN OF CAP



EAST END VIEW
(LOOKING WEST)



SOUTH FACE ELEVATION
(LOOKING NORTH)

FIGURE 7

- LEGEND**
- TOTAL
 - 5 SF - DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - 83 SF - DENOTES PATCH
 - Rx EXPOSED REINFORCING
 - TOTAL PIER APPROXIMATE DETERIORATED AREA - 5 SF

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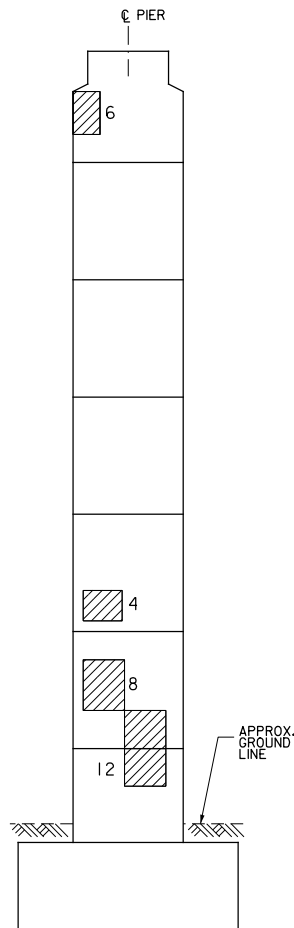
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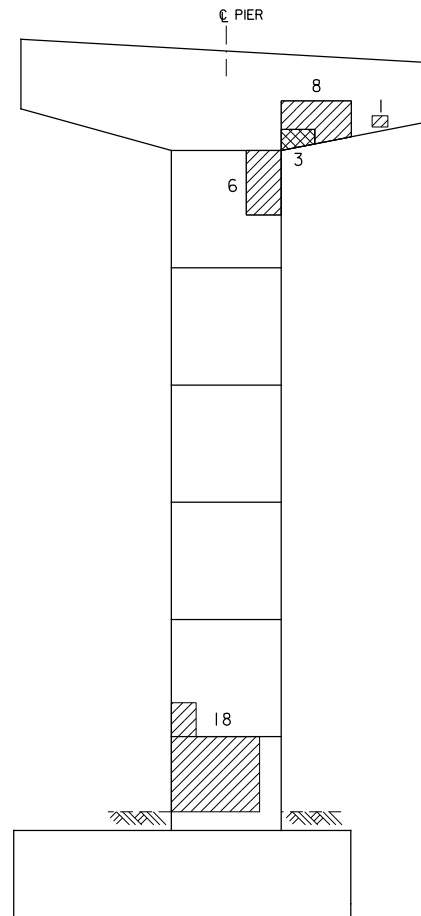


FIGURE 8

- LEGEND**
- ~ DENOTES CRACK
 - 3 SF - [Cross-hatched] DENOTES DELAM
 - [Solid grey] DENOTES SPALL
 - [Horizontal lines] DENOTES HEAVY ABRASION
 - 63 SF - [Diagonal lines] DENOTES PATCH
 - Rx [Diagonal lines with 'x'] EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 3 SF



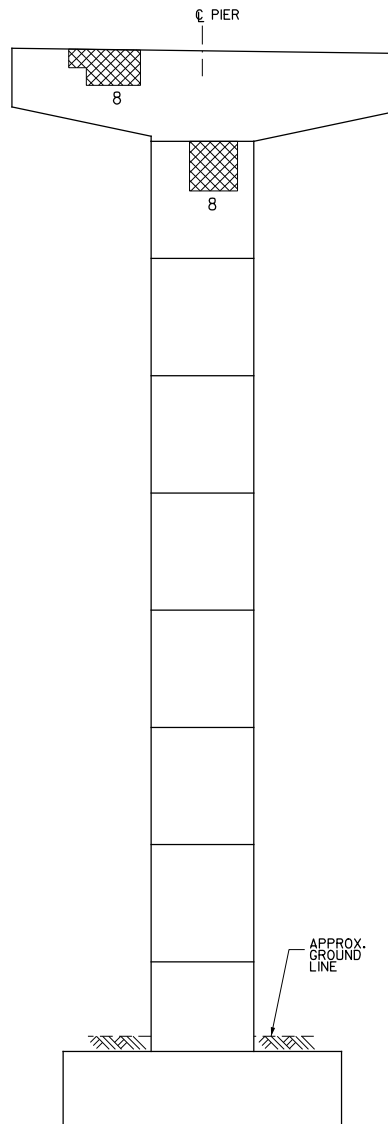
WEST END VIEW
(LOOKING EAST)



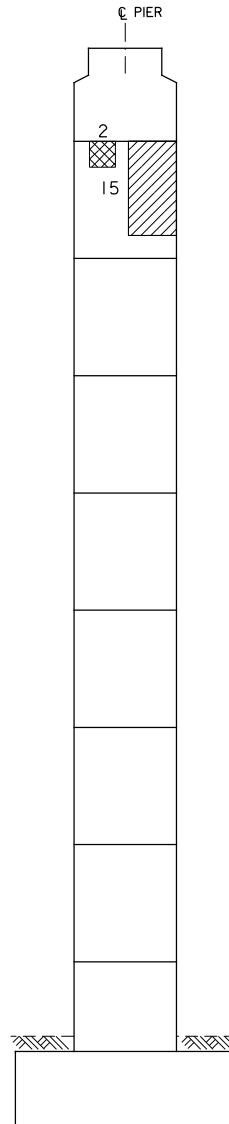
NORTH FACE ELEVATION
(LOOKING SOUTH)

NO.	REVISIONS





NORTH FACE ELEVATION
(LOOKING SOUTH)



WEST END VIEW
(LOOKING EAST)

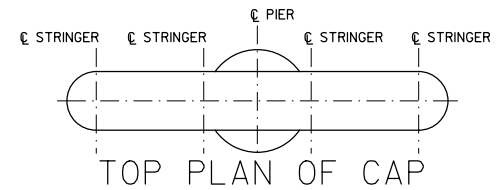


FIGURE 15

- LEGEND**
- TOTAL
18 SF -
- DENOTES CRACK
 - DENOTES DELAM
 - DENOTES SPALL
 - DENOTES HEAVY ABRASION
 - DENOTES PATCH
 - Rx EXPOSED REINFORCING
- TOTAL PIER APPROXIMATE
DETERIORATED AREA - 18 SF

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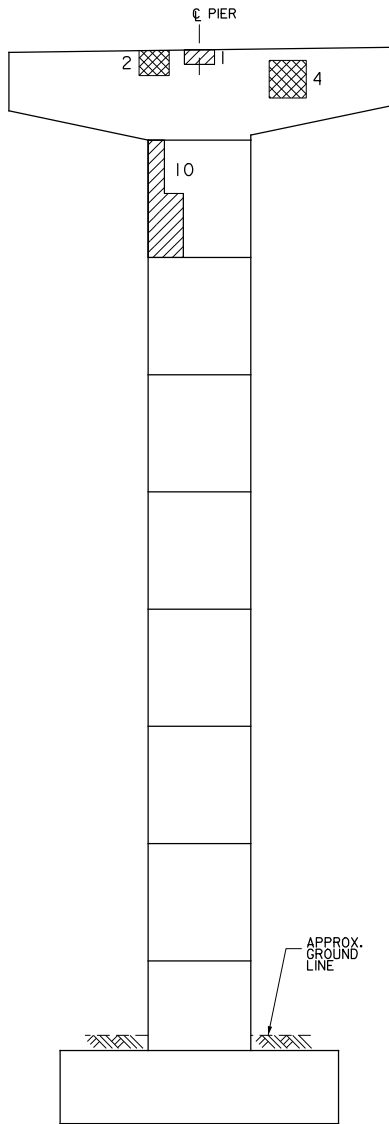
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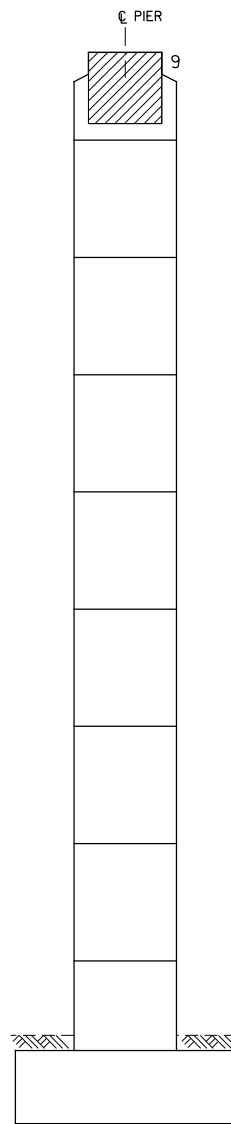
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SOUTH FACE ELEVATION
(LOOKING NORTH)



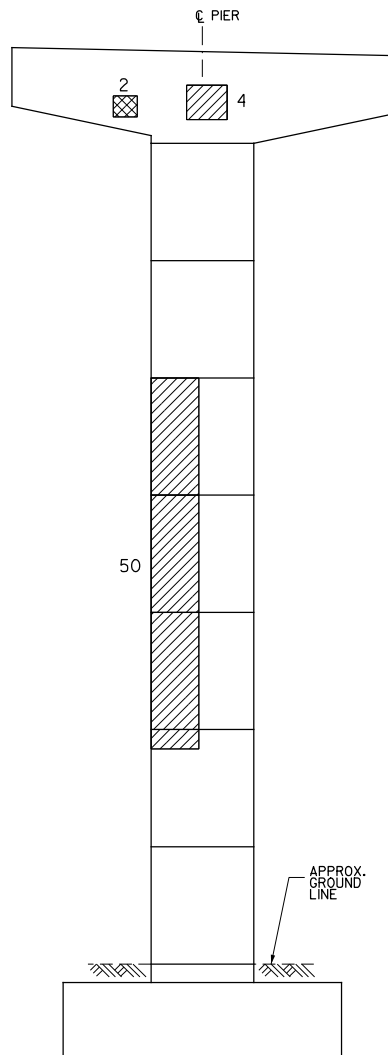
EAST END VIEW
(LOOKING WEST)

FIGURE 16

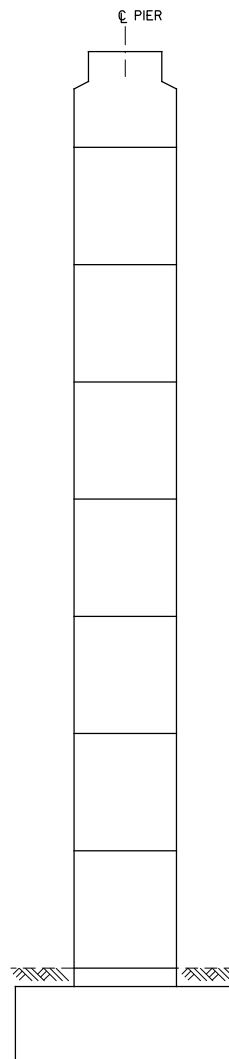
TOTAL		LEGEND	
6 SF -		DENOTES CRACK	
		DENOTES DELAM	
		DENOTES SPALL	
		DENOTES HEAVY ABRASION	
20 SF -		DENOTES PATCH	
	Rx	EXPOSED REINFORCING	
TOTAL PIER APPROXIMATE DETERIORATED AREA - 6 SF			

REVISIONS	

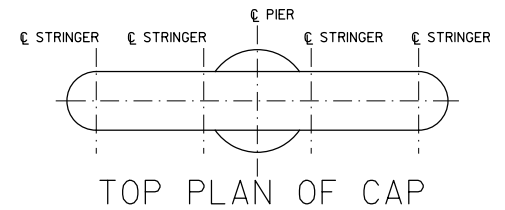




NORTH FACE ELEVATION
(LOOKING SOUTH)



WEST END VIEW
(LOOKING EAST)



TOP PLAN OF CAP

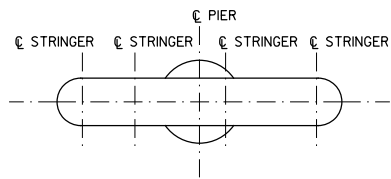
FIGURE 17

TOTAL		LEGEND	
2 SF -			DENOTES CRACK
			DENOTES DELAM
			DENOTES SPALL
54 SF -			DENOTES HEAVY ABRASION
			DENOTES PATCH
	Rx		EXPOSED REINFORCING
TOTAL PIER APPROXIMATE DETERIORATED AREA - 2 SF			

NO.	REVISIONS



FIGURE 7



LEGEND

TOTAL

35 SF - DENOTES CRACK

264 SF - DENOTES DELAM

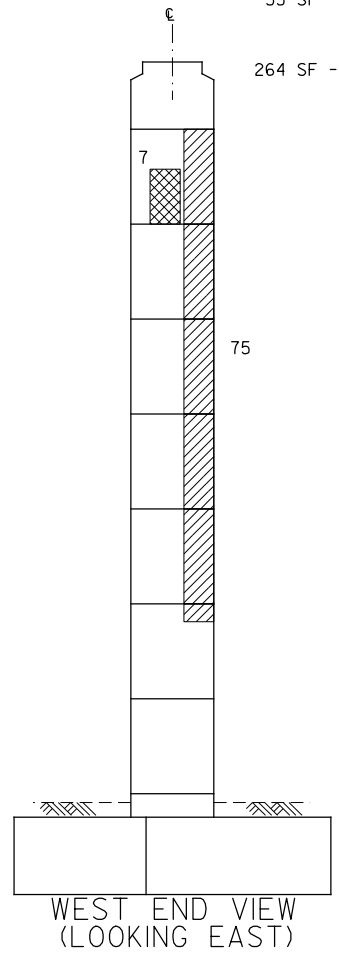
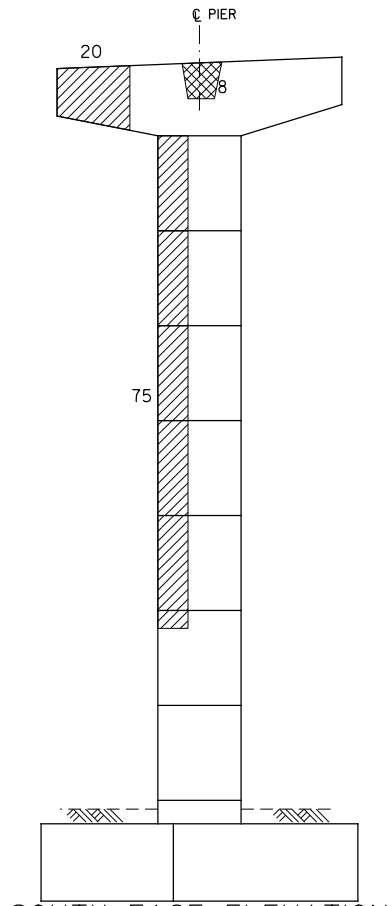
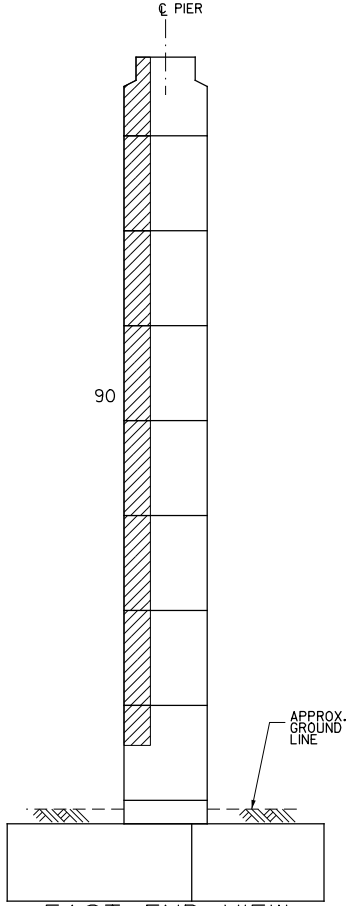
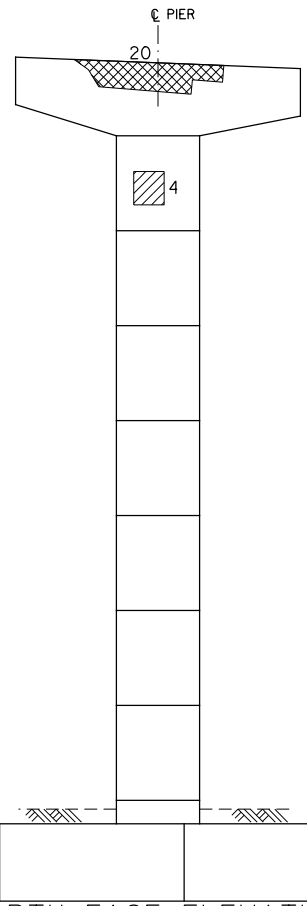
DENOTES SPALL

DENOTES HEAVY ABRASION

DENOTES PATCH

Rx EXPOSED REINFORCING

TOTAL PIER APPROXIMATE
DETERIORATED AREA - 35 SF



NO.	DATE	REVISIONS

R ichmond M etropolitan T ransportation A uthority			
BRIDGE 68 PLAN AND ELEVATION PIER 5			
HNTB 2900 South Quincy Street, Suite 200 Arlington, VA 22206 (703) 824-5100		Scale: N.T.S.	Date: 10/2022
		Contract No.:	Sheet: 7 OF 16