

CITY OF ANN ARBOR

ISLAND PARK PEDESTRIAN BRIDGE ABUTMENT REPAIR

BID SET

JANUARY 2015

ITB No. 4349

Stantec Project Number: 2075120212

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GENERAL NOTES:

GENERAL

- ALL WORK SHALL CONFORM TO ALL REQUIREMENTS OF MIOSHA, AND OSHA.
- DIMENSIONS AND ELEVATIONS SHOWN ON EXISTING STRUCTURES ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING WITH FIELD MEASUREMENTS. ALL DIMENSIONS AND ELEVATIONS WHICH ARE REQUIRED FOR FABRICATION AND INSTALLATION OF REPAIRS TO STRUCTURES BEING MADE UNDER THIS CONTRACT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE REPAIRS.
- ALL NEW REINFORCING STEEL AND WIRE TIES SHALL BE EPOXY COATED.
- ANY EXISTING REINFORCING STEEL EXPOSED DURING THE DEMOLITION SHALL BE HANDTOOL CLEANED WITH SCOTCH BRITE AND PROTECTED WITH CORROSION INHIBITOR PRIOR TO CONCRETE REPAIRS.
- CONCRETE TRUCKS SHALL NOT BE PERMITTED ON THE BANKS OF THE RIVER. CONCRETE PLACEMENT SHALL BE BY WHEELBARROW, PUMP, OR OTHER OWNER/OWNER REPRESENTATIVE APPROVED MEANS.
- EXCAVATE AS NECESSARY AND BACKFILL.
- CONTRACTOR IS NOT PERMITTED TO BLOCK OR RESTRICT ACCESS TO THE PARKS PAVILION AND RESTROOMS.
- CONTRACTOR IS NOT PERMITTED TO USE THE PARKS RESTROOM FACILITIES.
- CONTRACTOR SHALL SUBMIT A FOLIAGE REMOVAL PLAN FOR REVIEW AND APPROVAL BY THE OWNER/OWNER'S REPRESENTATIVE. NO TREES SHALL BE REMOVED WITHOUT PRIOR APPROVAL BY THE OWNER. CONTRACTOR SHALL REPLACE ANY TREES REMOVED TO PERFORM THE WORK.
- CONTRACTOR SHALL REPAIR ALL CRACKS IN THE ABUTMENTS WITH SIKKA INJECTOCHEM-190 OR APPROVED EQUIVALENT.
- CONTRACTOR IS TO REPAIR ANY DAMAGE TO THE BRIDGE GUARDRAIL SYSTEM, AND PRESTRESSED CONCRETE SPAN CAUSED DURING THE COURSE OF THE PROJECT.
- NO LARGE VEHICLES WILL HAVE ACCESS TO THE SOUTH ABUTMENT. CONTRACTOR SHALL PROVIDE A LIST OF ANY VEHICLES TO HAVE ACCESS TO THE SOUTH ABUTMENT FOR REVIEW AND APPROVAL.

DEMOLITION

- PROVIDE WRITTEN PLAN AND DESCRIPTION OF ALL DEMOLITION ON EXISTING STRUCTURES, FOR REVIEW AND APPROVAL PRIOR TO BEGINNING WORK.
- PROVIDE MEASURES TO PREVENT ANY NEW OR DEMOLISHED CONCRETE AND/OR DEBRIS FROM ENTERING THE RIVER WATER. THE MEASURES TO BE PROVIDED SHALL BE SUBMITTED TO THE OWNER/OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.
- SAW CUTS SHALL BE MADE FOR ALL FORM/POUR REPAIRS. PROVIDE CLEAN, DEFINED, PARALLEL OR PERPENDICULAR LINES. ANY REINFORCING STEEL THAT IS CUT SHALL BE REPLACED BY THE CONTRACTOR AND IS CONSIDERED INCIDENTAL TO THIS CONTRACT. IN GENERAL, WHEN REMOVING CONCRETE THE CONTRACTOR SHALL ATTEMPT TO PRESERVE REINFORCING STEEL UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE OWNER/OWNER'S REPRESENTATIVE.
- DETERMINE ALL DIMENSIONS AND THE EXTENT OF ALL REMOVAL, WITH THE OWNER/OWNER'S REPRESENTATIVE PRIOR TO THE START OF DEMOLITION. DETERIORATED CONCRETE SHALL BE REMOVED TO SOUND MATERIAL. THE EXTENT OF THE CONCRETE REMOVAL AND REPAIR MAY VARY FROM THAT SHOWN ON THE DRAWINGS. REPAIRS BEYOND THE LIMITS IDENTIFIED IN THE PLAN SET MUST BE AUTHORIZED BY THE OWNER/OWNER'S REPRESENTATIVE PRIOR TO DEMOLITION.
- TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO THE EXISTING STRUCTURES PRIOR TO DEMOLITION WORK. ALL DAMAGE SHALL BE REPAIRED TO THE COMPLETE SATISFACTION OF THE OWNER/OWNER'S REPRESENTATIVE AT THE CONTRACTORS EXPENSE.
- IF FRACTURE OF ADJACENT CONCRETE OCCURS DURING DEMOLITION WORK, THE REPAIR SHALL BE WITH AN ENGINEER APPROVED PRESSURE INJECTED EPOXY, TO THE COMPLETE SATISFACTION OF THE ENGINEER, AT THE CONTRACTORS EXPENSE.
- CONTRACTOR SHALL PROPERLY SUPPORT ABUTMENTS DURING THE DEMOLITION WORK.
- THE RIVER SHALL BE PROTECTED AND SECURED AT ALL TIMES FROM LOSS OF SOIL BY UTILIZING THE PROPER SCREENS AND FILTERS WHILE THE CONTRACTOR IS DEWATERING.
- ITEMS DESIGNATED FOR REMOVAL AND REPLACEMENT SHALL BE STORED AND PROTECTED FOR THE DURATION OF THE PROJECT AND REINSTALLED.

SOIL EROSION CONTROL NOTES:

GENERAL

- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE COMPILED WITH AS REQUIRED OR DIRECTED BY OWNER OR OWNER'S REPRESENTATIVE.
- ALL SOIL EROSION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS.
- DAILY INSPECTION OF THE SOIL EROSION CONTROL SHALL BE MADE BY THE CONTRACTOR. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY.
- THE RIVER SHALL BE PROTECTED AND SECURED AT ALL TIMES FROM SEDIMENTS AND DEBRIS CONSEQUENT TO THE CONTRACTOR'S ACTIVITIES.
- CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION.
- ROADS SHALL BE KEPT OF FREE OF DIRT, SILT, AND CONSTRUCTION DEBRIS.
- CONTRACTOR SHALL REMOVE SILT FENCING AT THE COMPLETION OF THE PROJECT.

EROSION CONTROL ESTIMATED QUANTITIES:

- FOR PERMIT USE ONLY.
- SHALL NOT BE USED FOR BIDDING PURPOSES.

AREA TO BE DISTURBED: < 400 SFT

EXCAVATION: < 21.4 CYD

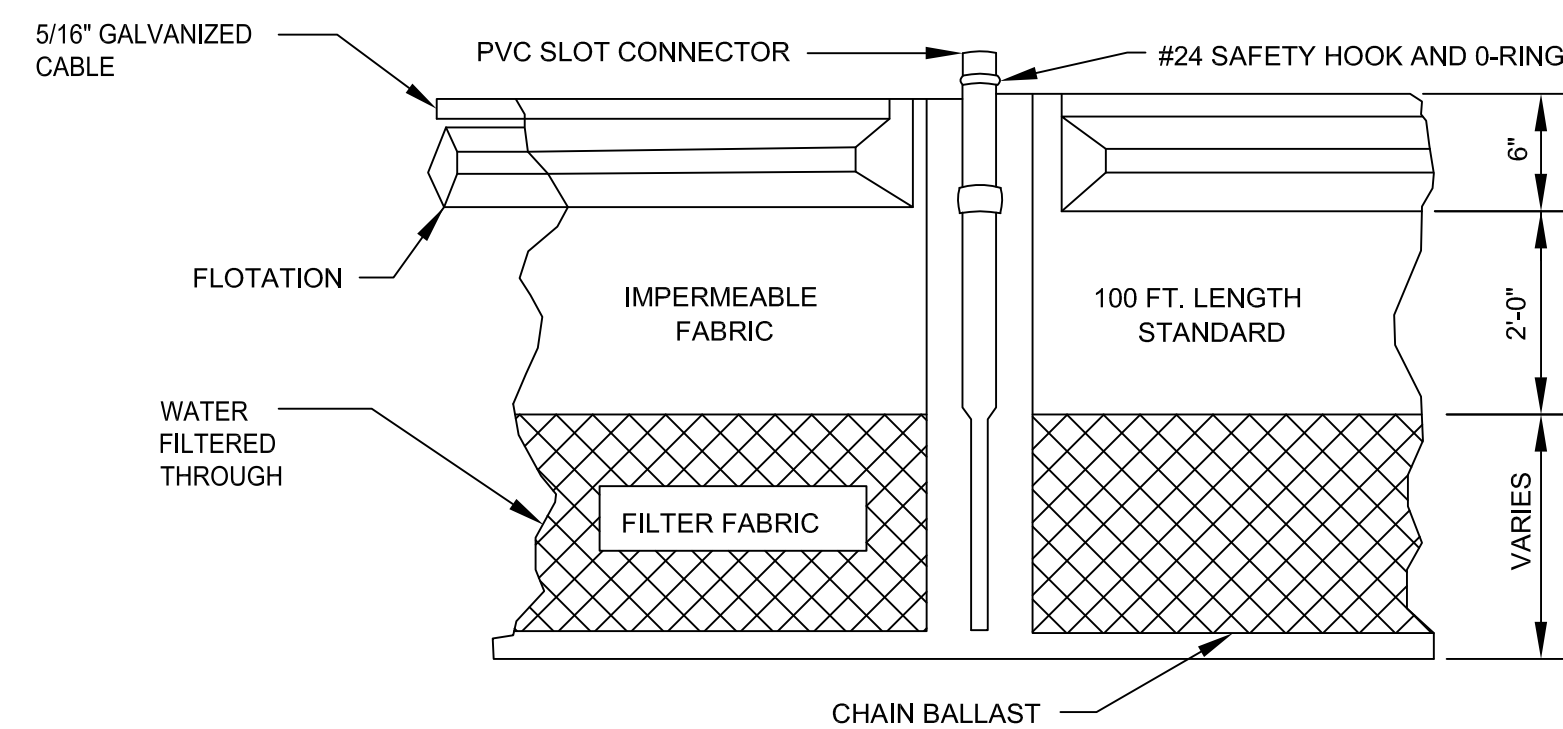
ADDITIONAL FILL: 27 CYD

EROSION CONTROL: SILT FENCE = 56 LFT

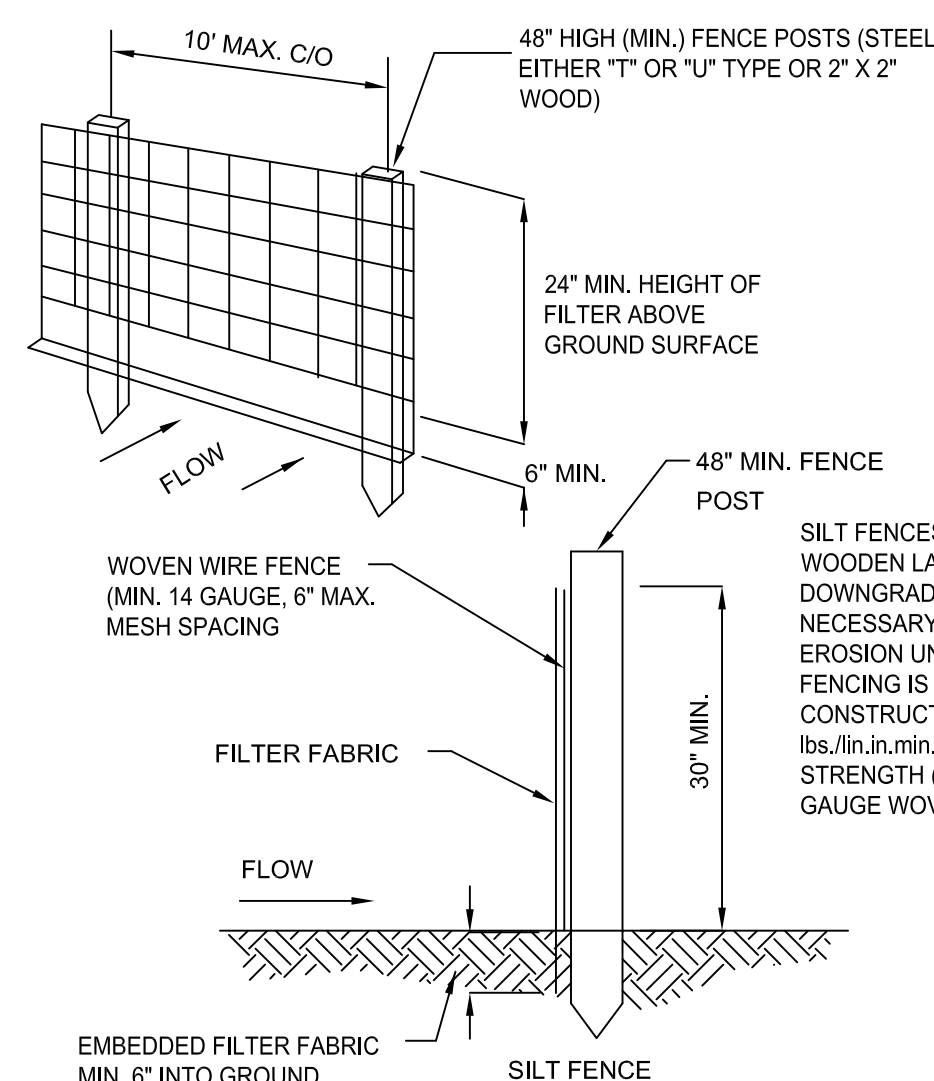
RIPRAP = 27 CYD

ABBREVIATIONS

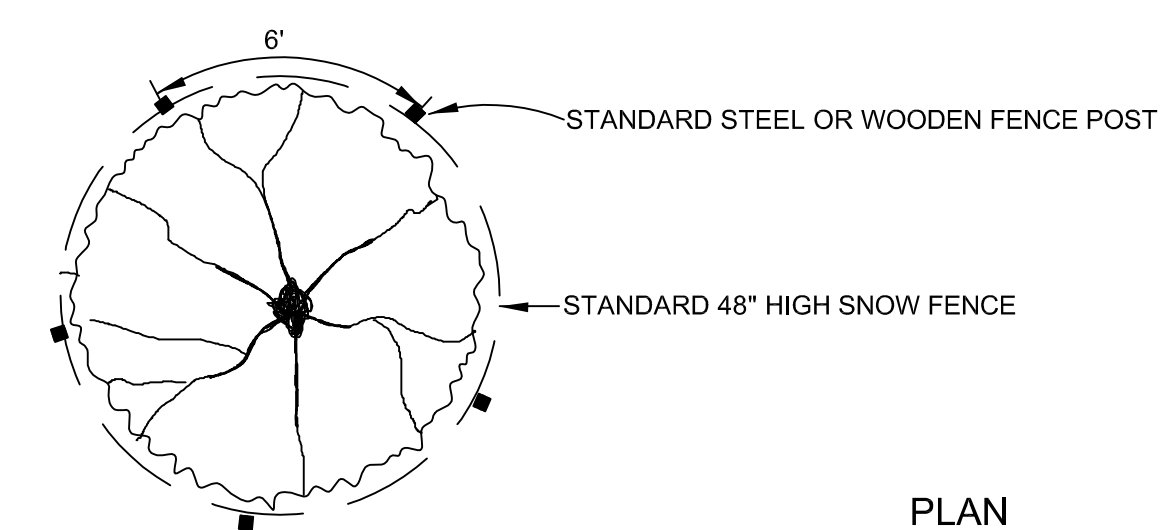
ALUM.	ALUMINIUM	HK.	HOOK
B.	BOTTOM	HORIZ.	HORIZONTAL
BLDG.	BUILDING	HT.	HEIGHT
BM.	BEAM	I.D.	INSIDE DIAMETER
BSMT.	BASEMENT	I.E.	INVERT ELEVATION
C-C	CENTER TO CENTER	I.F.	INSIDE FACE
CJ	CONSTRUCTION JOINT	IN.	INCHES
CFT.	CUBIC FEET	INT.	INTERIOR
CLR.	CLEAR	JT.	JOINT
COL.	COLUMN	KIP	THOUSAND POUNDS
CONC.	CONCRETE	LFT.	LINEAR FEET
CONSTR.	CONSTRUCTION	LGTH.	LENGTH
CONT.	CONTINUOUS	MAX.	MAXIMUM
COR.	CORNER	MIN.	MINIMUM
CYD	CUBIC YARD	NA	NOT APPLICABLE
D	DEEP	N.F.	NEAR FACE
DIA.	DIAMETER	N.T.S.	NOT TO SCALE
DIP	DUCTILE IRON PIPE	O.C.	ON CENTER
DIAG.	DIAGONAL	O.D.	OUTSIDE DIAMETER
DWLS.	DOWELS	O.F.	OUTSIDE FACE
EJ	EXPANSION JOINT	OPNG.	OPENING
E.E.	EACH END	P.O.C.	POINT OF CONNECTION
E.F.	EACH FACE	REINF.	REINFORCEMENT
E.W.	EACH WAY	RE:	REFER TO
EA.	EACH	SF	SQUARE FEET
EL.	ELEVATION	SHTS.	SHEETS
EX.	EXISTING	SIM.	SIMILAR
EXT.	EXTERIOR	SJ	SLAB CONTROL JOINT
FIN.	FINISH	SS	STAINLESS STEEL
FL.	FLOOR	STIR.	STIRRUPS
FND.	FOUNDATION	STRUCT.	STRUCTURAL
FRP.	FIBERGLASS REINFORCED PLASTIC	T/	TOP
		TYP.	TYPICAL
FT.	FEET	U.N.O.	UNLESS NOTED OTHERWISE
GALV.	GALVANIZED		
GR.	GRADE	VERT.	VERTICAL
H.	HIGH	V.I.F.	VERIFY IN FIELD



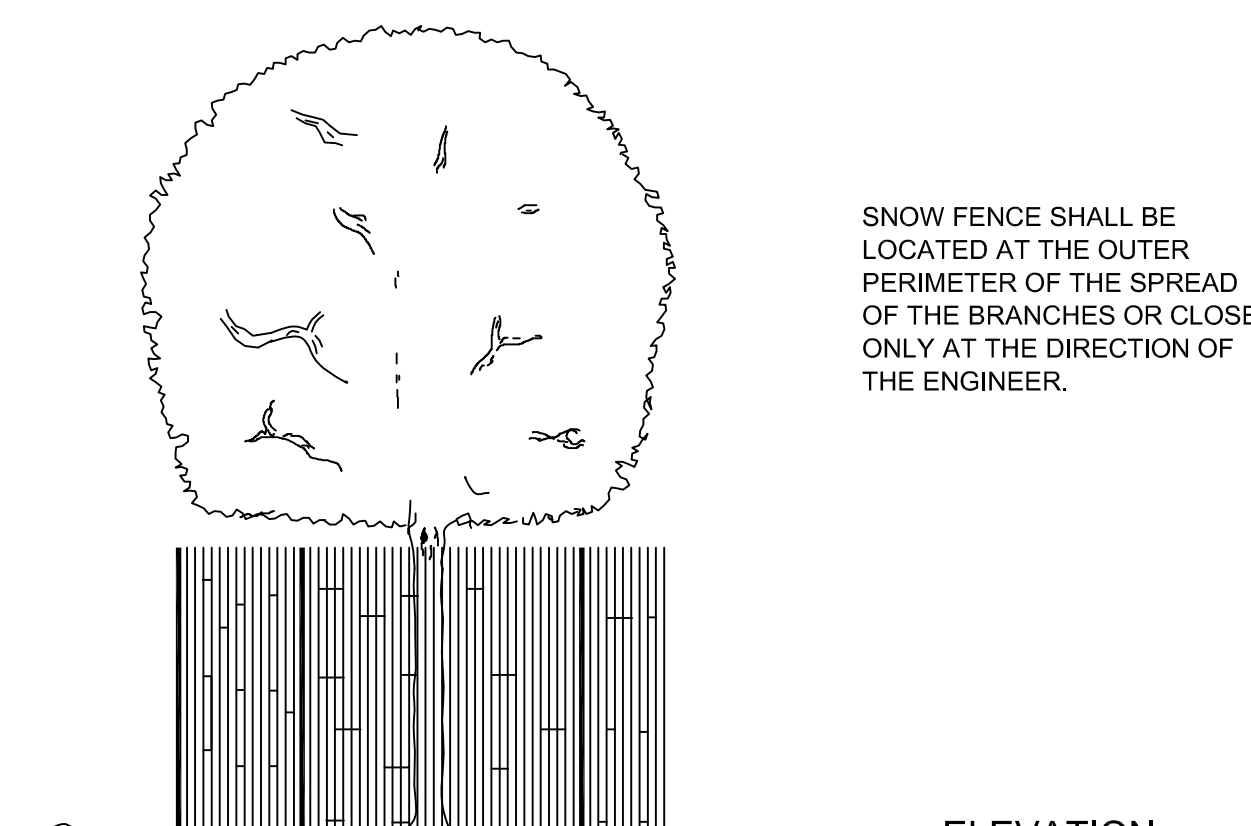
TURBIDITY CURTAIN
NOT TO SCALE



SILT FENCE
NOT TO SCALE



PLAN



ELEVATION

TREE PROTECTION FENCE
NOT TO SCALE

Revision	By	Appd.	YY.MM.DD

A BID SET	NW	GRW	15.01.06
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File Name: 120212_G-002.DWG	BWA	NW	NW	14.07.25
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

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Client/Project
CITY OF ANN ARBOR

ISLAND PARK PEDIESTRIAN BRIDGE
ABUTMENT REPAIR
Ann Arbor, Michigan

Title

GENERAL NOTES AND
ABBREVIATIONS

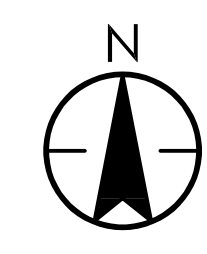
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2075120212	

Drawing No.	Sheet	Revision
G-002	2 of 10	0

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2015/10/06 10:23 AM By: Ament, Brad



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- NOTES:**
- (A) PLACE 2 SIGNS AT ENTRANCE CHANNEL, "DANGER! CHANNEL CLOSED DUE TO CONSTRUCTION". SIZE = 2x3' MINIMUM WITH 3" LETTERS.
 - (B) CONSTRUCTION SAFETY FENCE.
 - (C) WARNING SIGN; "DANGER! BRIDGE CLOSED DUE TO CONSTRUCTION". SIZE = 2x3' MINIMUM WITH 3" LETTERS.
 - (D) STORE BRIDGE ON BLOCKING.
 - (E) COFFERDAM. SEE S-101 FOR DETAILS.
 - (F) TURBIDITY CURTAIN.

Revision	By	Appd.	YY.MM.DD
A	NW	GRW	15.01.06
Issued	By	Appd.	YY.MM.DD
File Name: 120212C-001.DWG	BWA	NW	NW
	Dwn.	Chkd.	Dsgn.
			14.07.25
			YY.MM.DD

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Client/Project
CITY OF ANN ARBOR

**ISLAND PARK PEDIESTRIAN BRIDGE
ABUTMENT REPAIR**
Ann Arbor, Michigan

Title
ACCESS AND STAGING PLAN

Project No. 2075120212
Drawing No. C-001

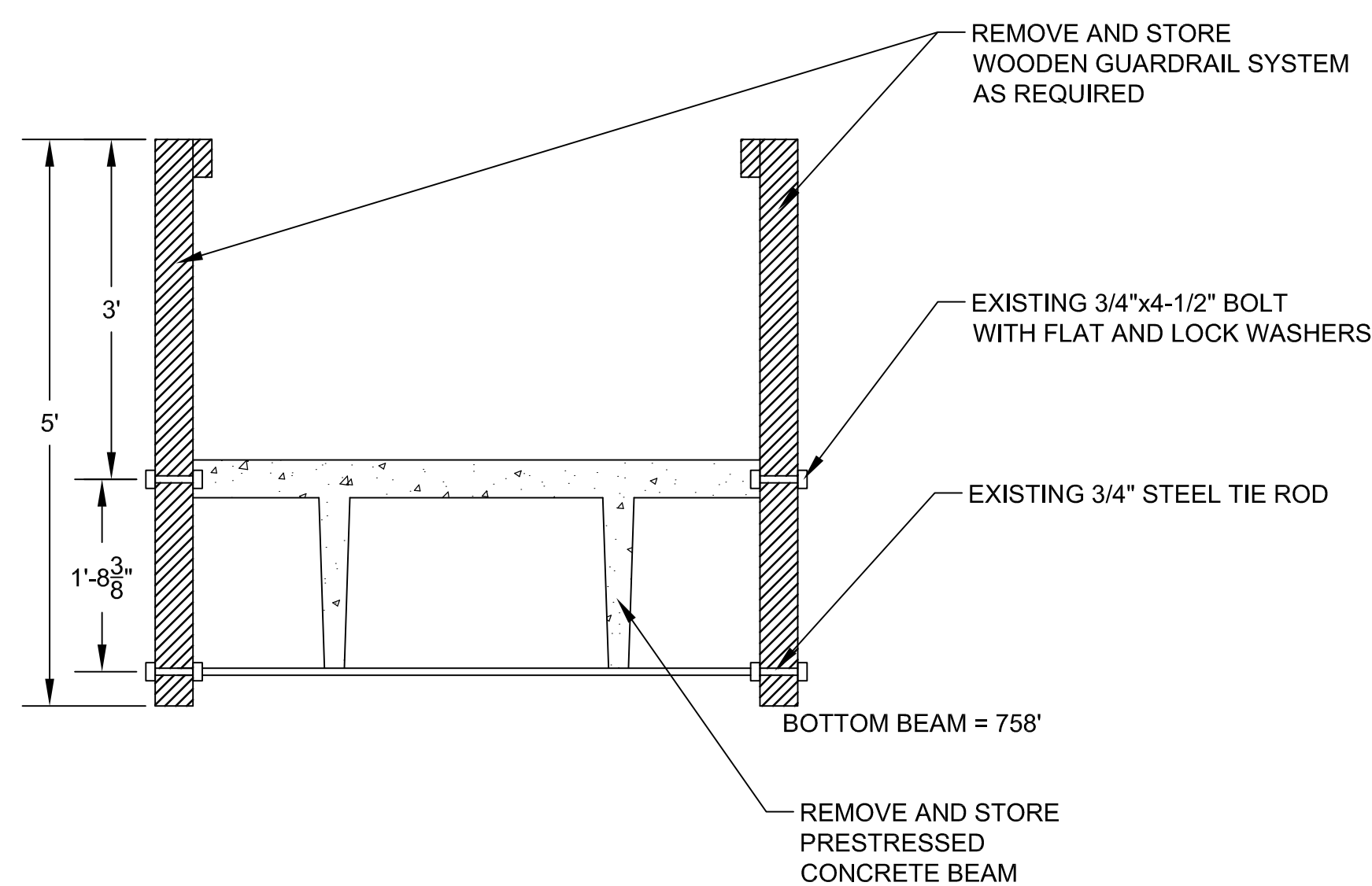
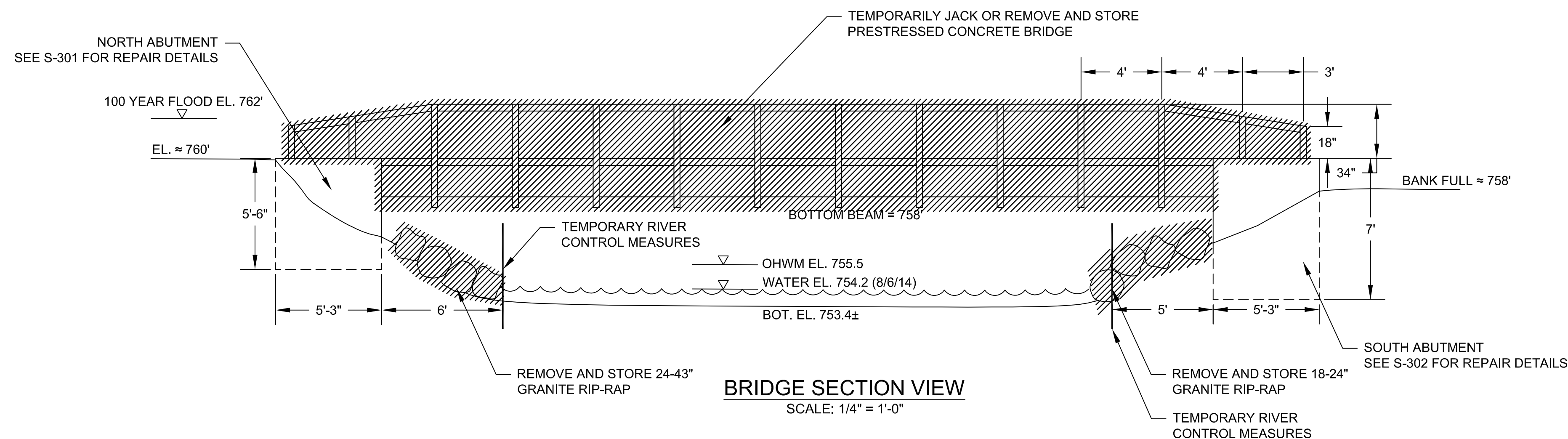
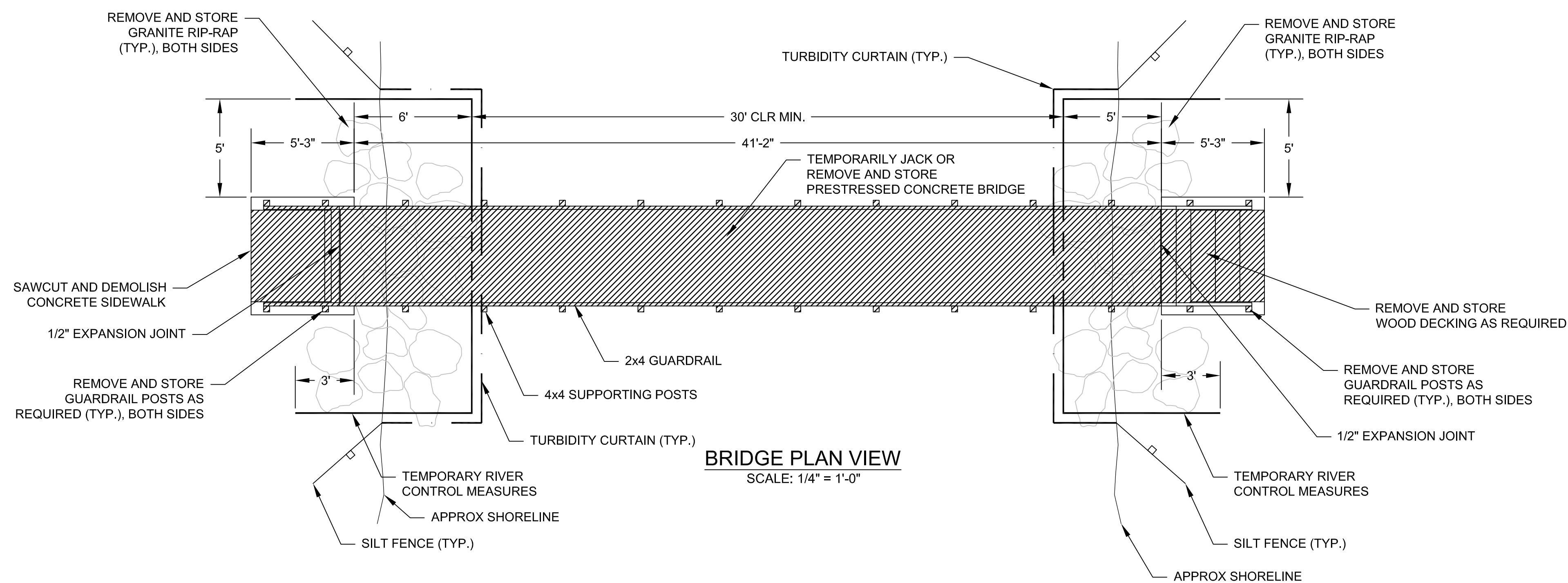
Scale 0 40' 80'

Sheet 3 of 10
Revision 0

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- NOTES:
- CONTRACTOR SHALL DESIGN AND INSTALL COFFERDAM OR OTHER RIVER CONTROL DEVICE WITHIN LIMITS SHOWN.
 - ALL ELEVATIONS ARE APPROXIMATE.



Revision	By	Appd.	YY.MM.DD

A	BID SET	NW	GRW	15.01.06

File Name:	120212C-101.DWG	BWA	NW	NW	14.07.25

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Client/Project
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ISLAND PARK PEDIESTRIAN BRIDGE
ABUTMENT REPAIR
Ann Arbor, Michigan

Title

SITE PREPARATION AND
SEDIMENT CONTROL

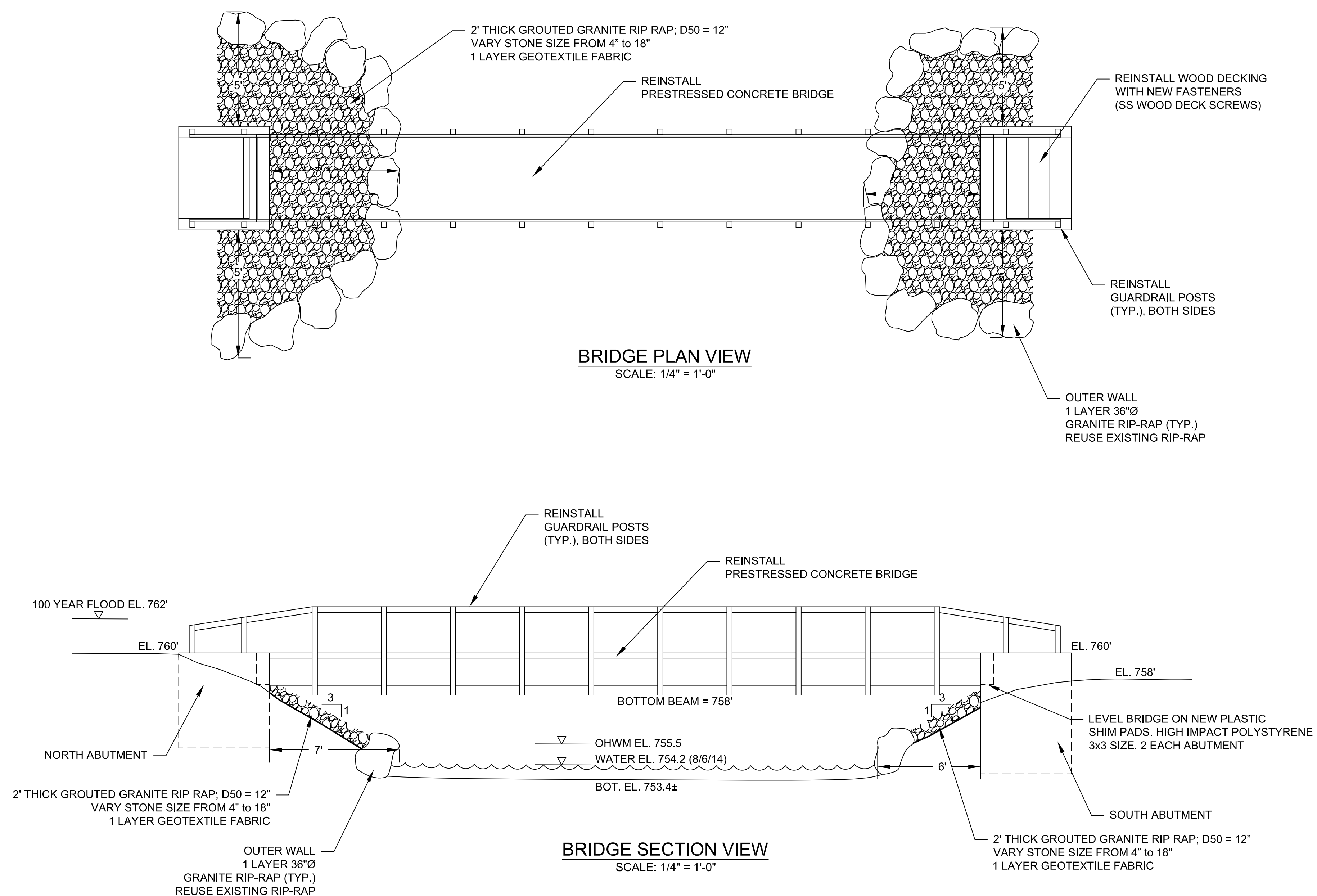
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Drawing No.	Sheet	Revision

C-101 4 of 10 0

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NOTE:
 1. ALL ELEVATIONS ARE APPROXIMATE.



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		Dwn.	Chkd.	Dsgn.	YY.MM.DD

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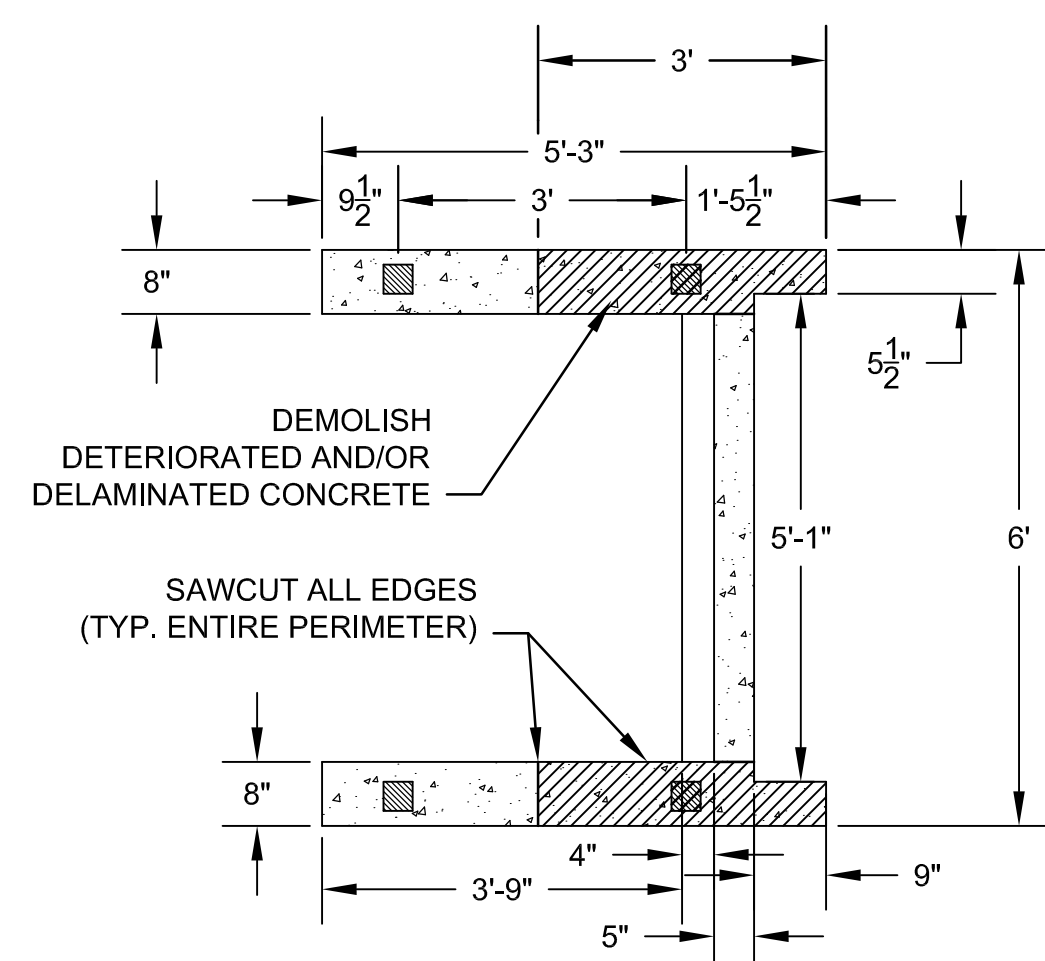
 Client/Project
 CITY OF ANN ARBOR

 ISLAND PARK PEDIESTRIAN BRIDGE
 ABUTMENT REPAIR
 Ann Arbor, Michigan

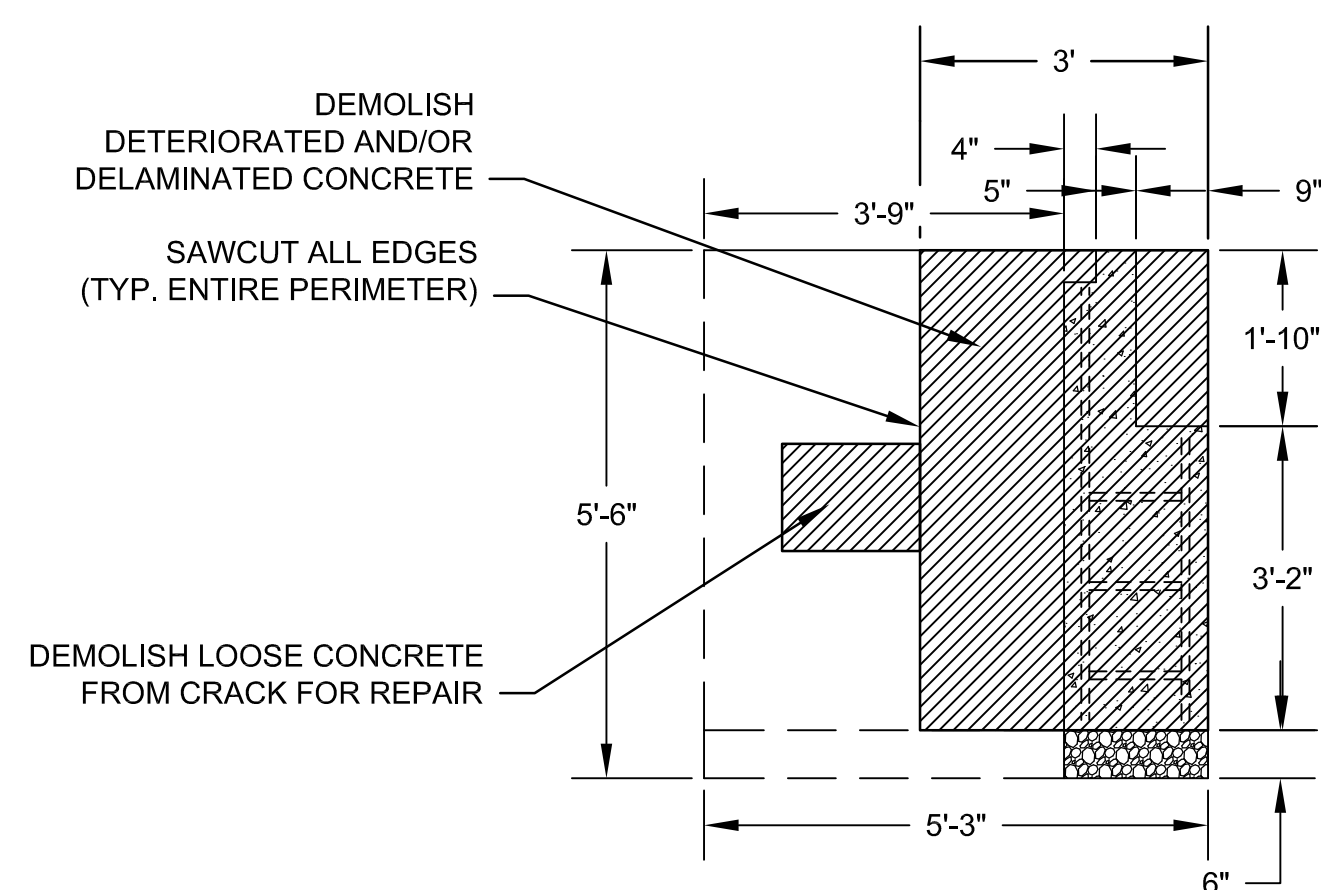
 Title
 SITE RESTORATION

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Drawing No.	Sheet	Revision
C-102	5 of 10	0

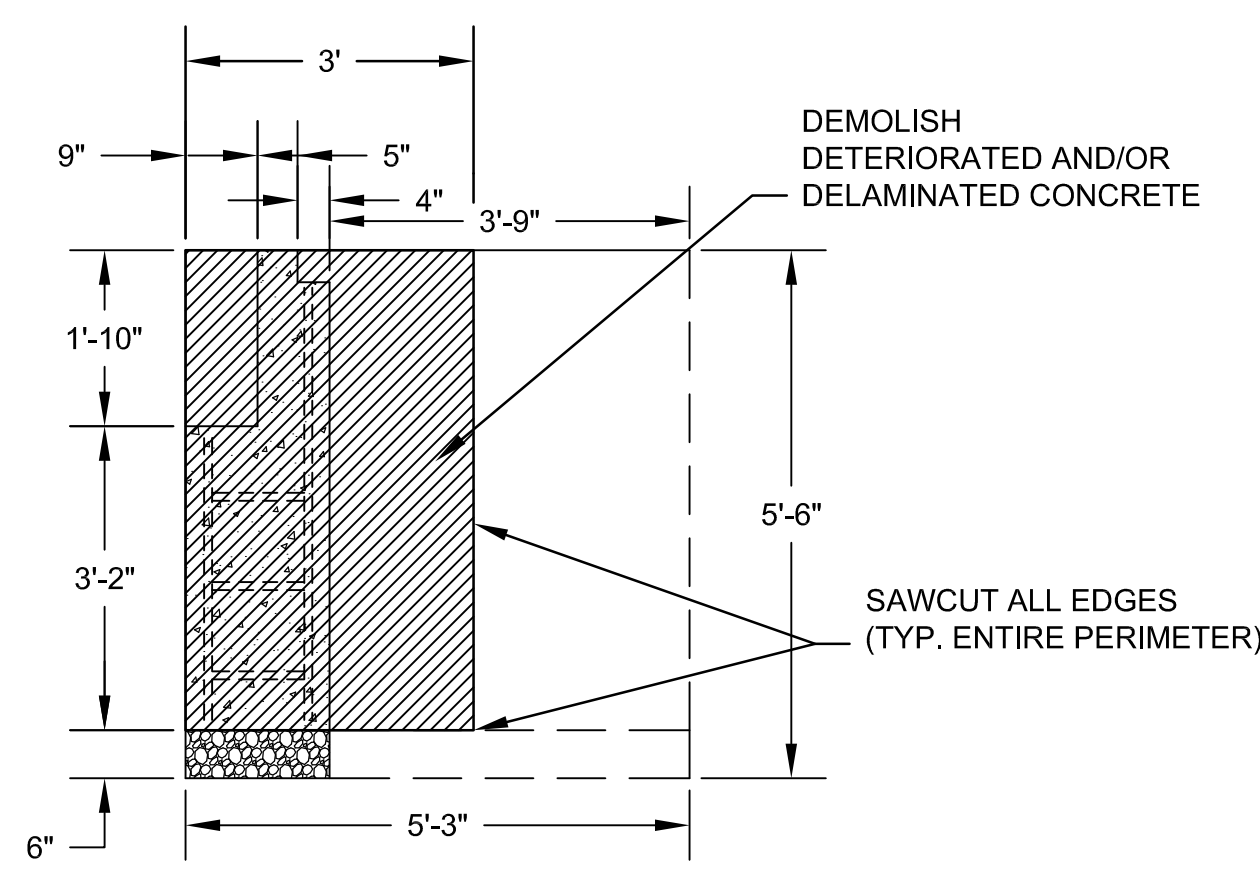
NOTE: ALL MEASUREMENTS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR



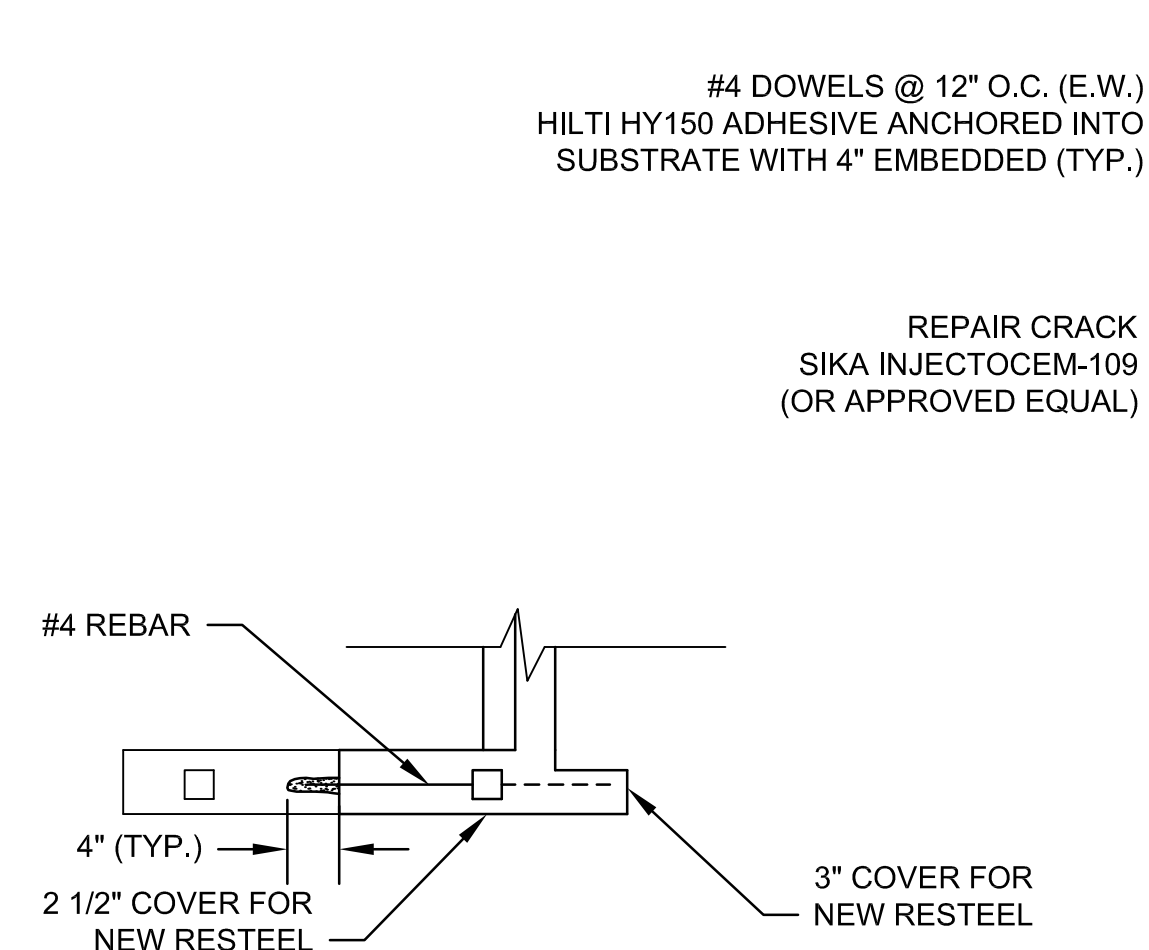
PLAN DEMOLITION
SCALE: 1/2" = 1'-0"



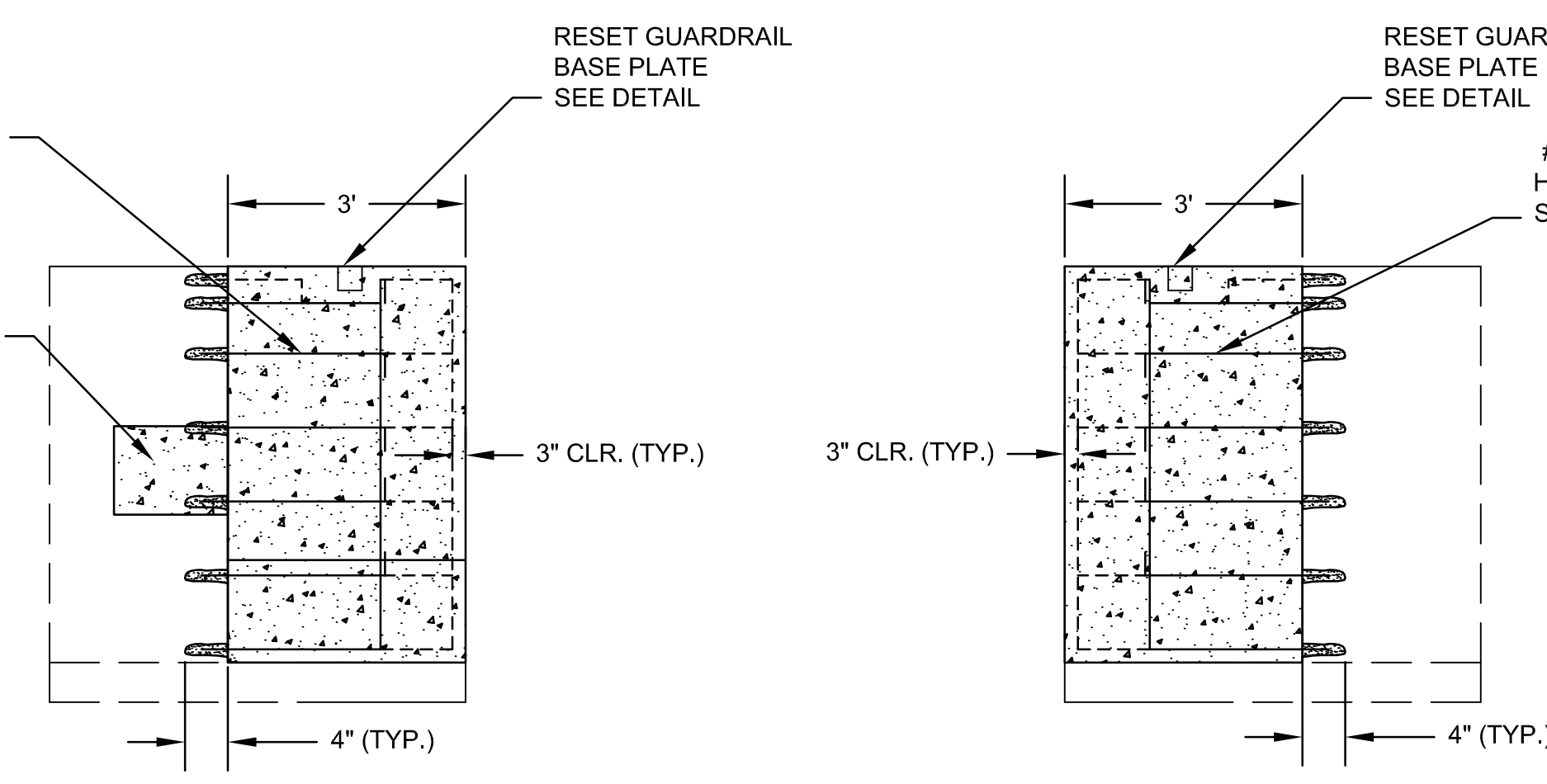
WEST ELEVATION DEMOLITION
SCALE: 1/2" = 1'-0"



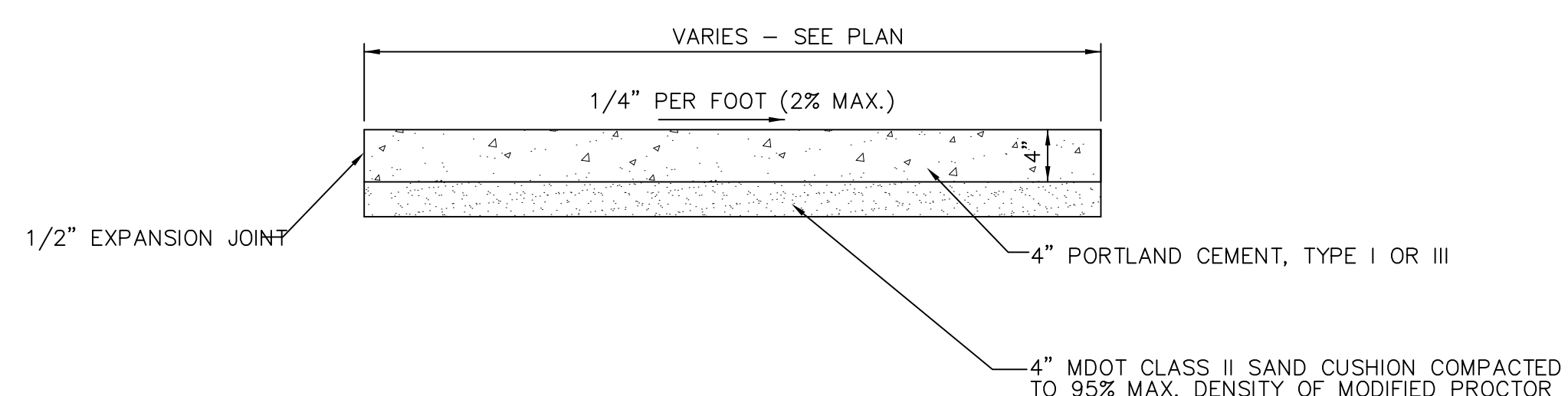
EAST ELEVATION DEMOLITION
SCALE: 1/2" = 1'-0"



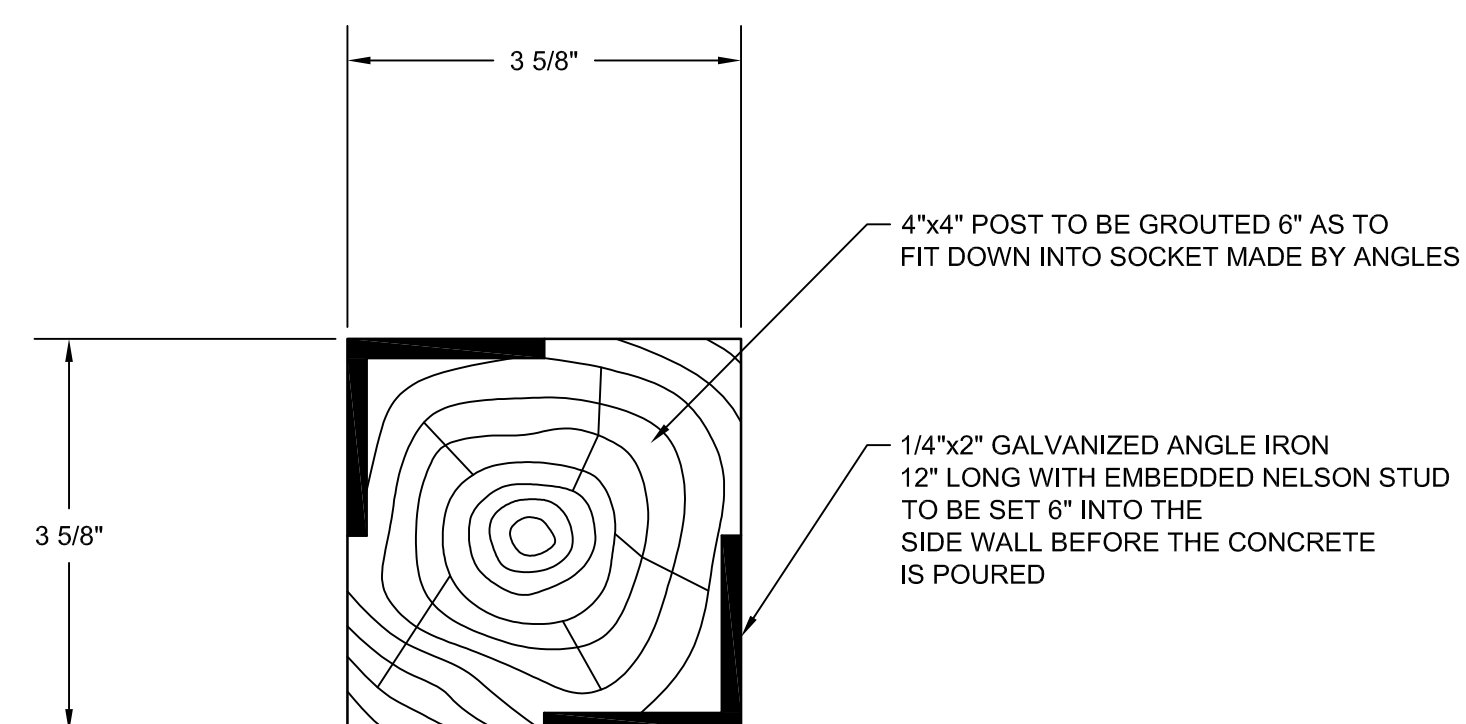
WEST ELEVATION REPAIRS
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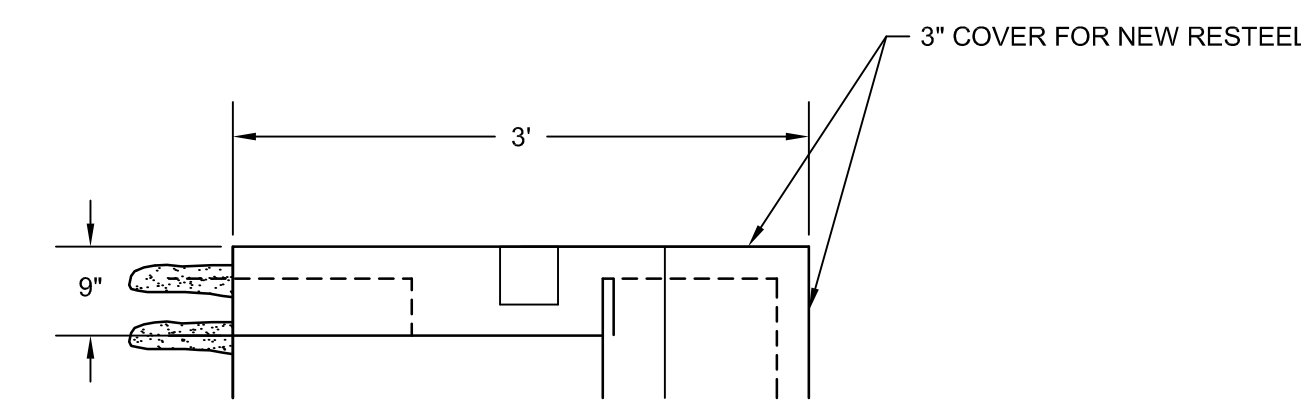
EAST ELEVATION REPAIRS
SCALE: 1/2" = 1'-0"



CONCRETE SIDEWALK DETAIL
NOT TO SCALE



HANDRAIL BASE SLEEVE DETAIL
NOT TO SCALE



REBAR DETAIL
NOT TO SCALE

Revision	By	Appd.	YY.MM.DD

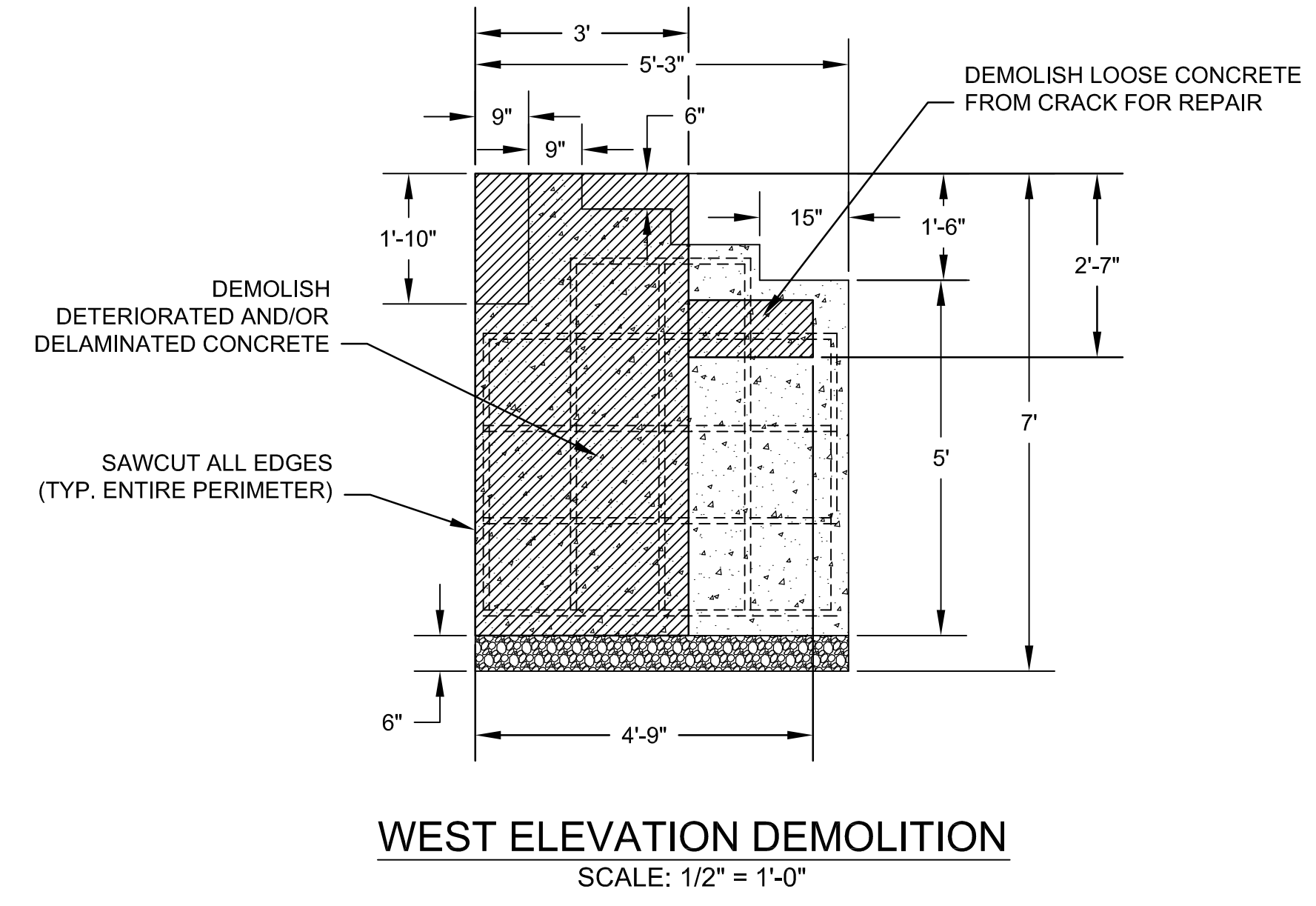
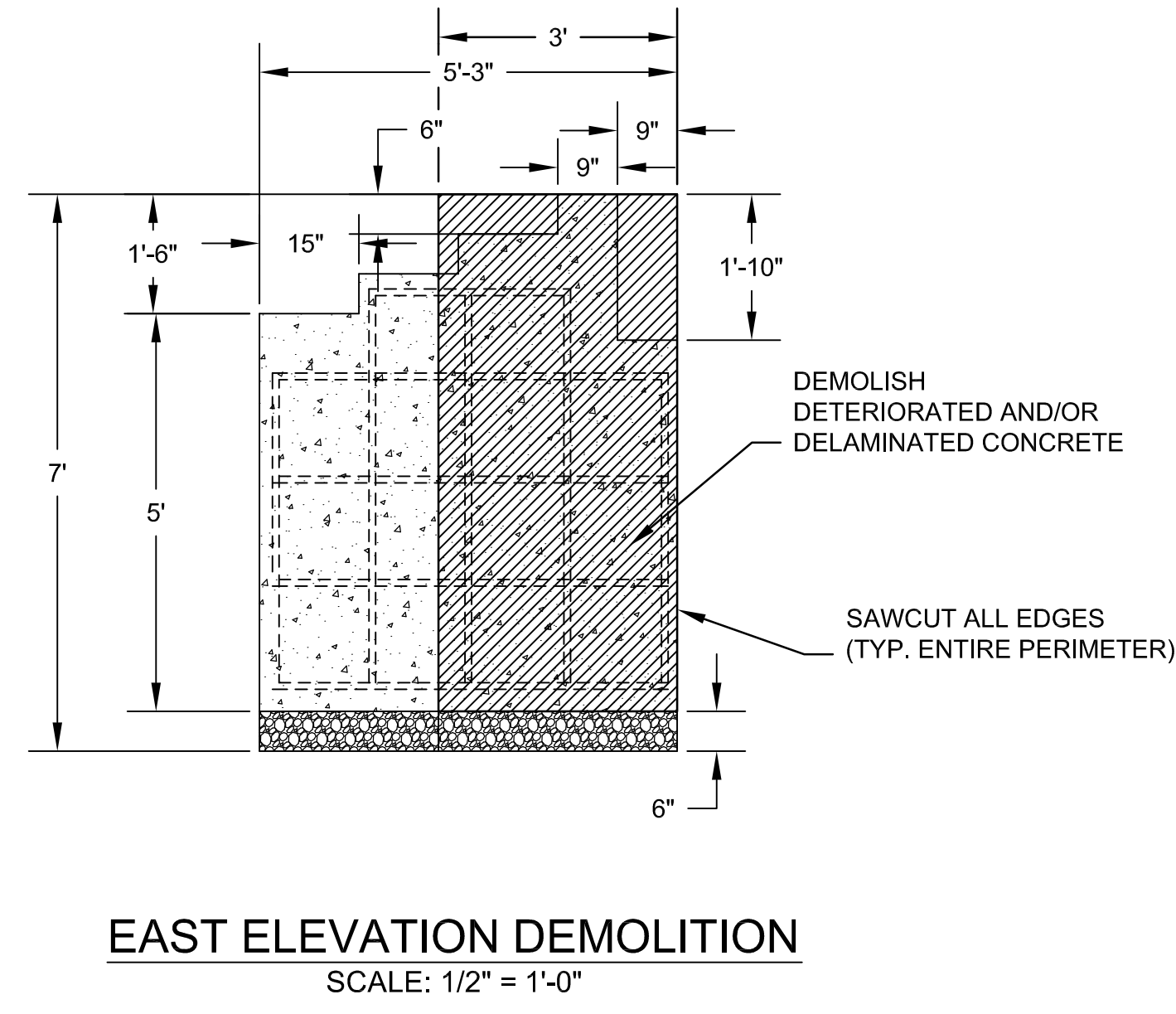
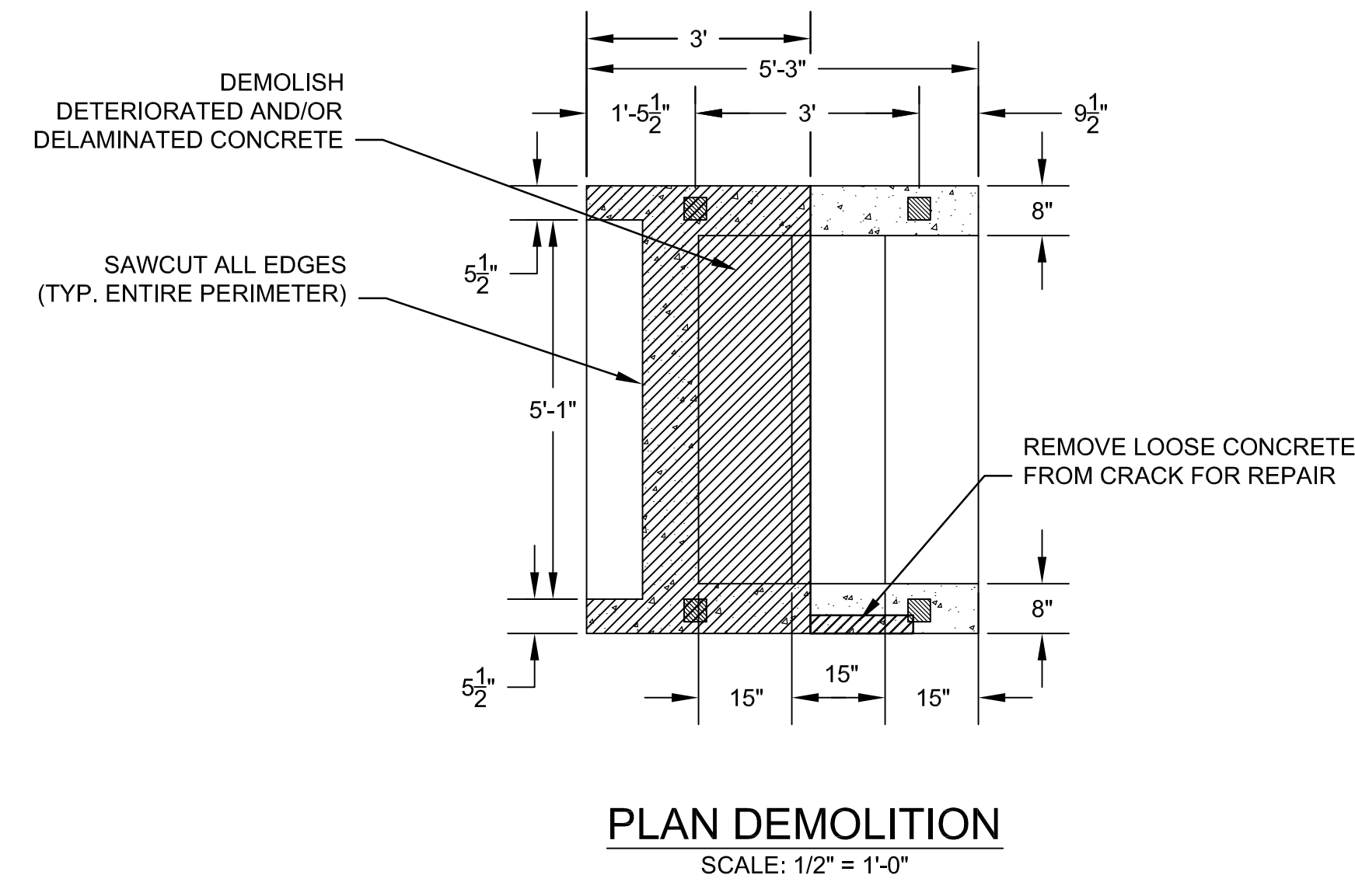
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Client/Project
CITY OF ANN ARBOR
ISLAND PARK PEDERSTRIAN BRIDGE ABUTMENT REPAIR
Ann Arbor, Michigan
Title
NORTH ABUTMENT DEMOLITION AND REPAIRS

Project No. 2075120212	Scale 0 1' 2' 4'
Drawing No.	Sheet Revision

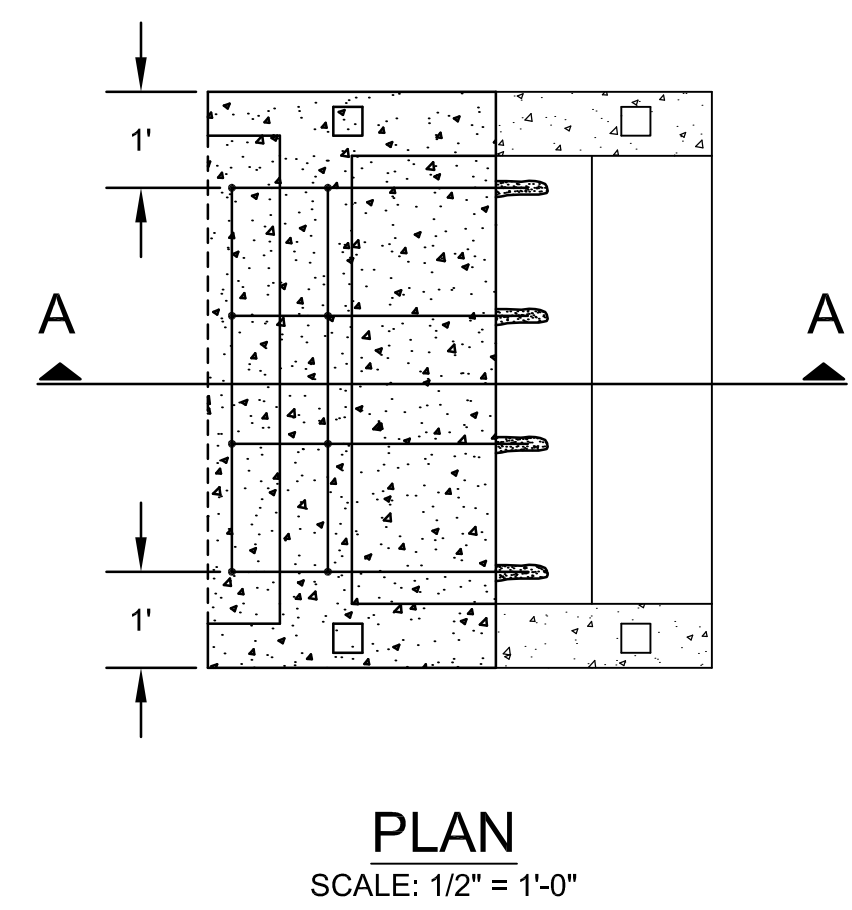
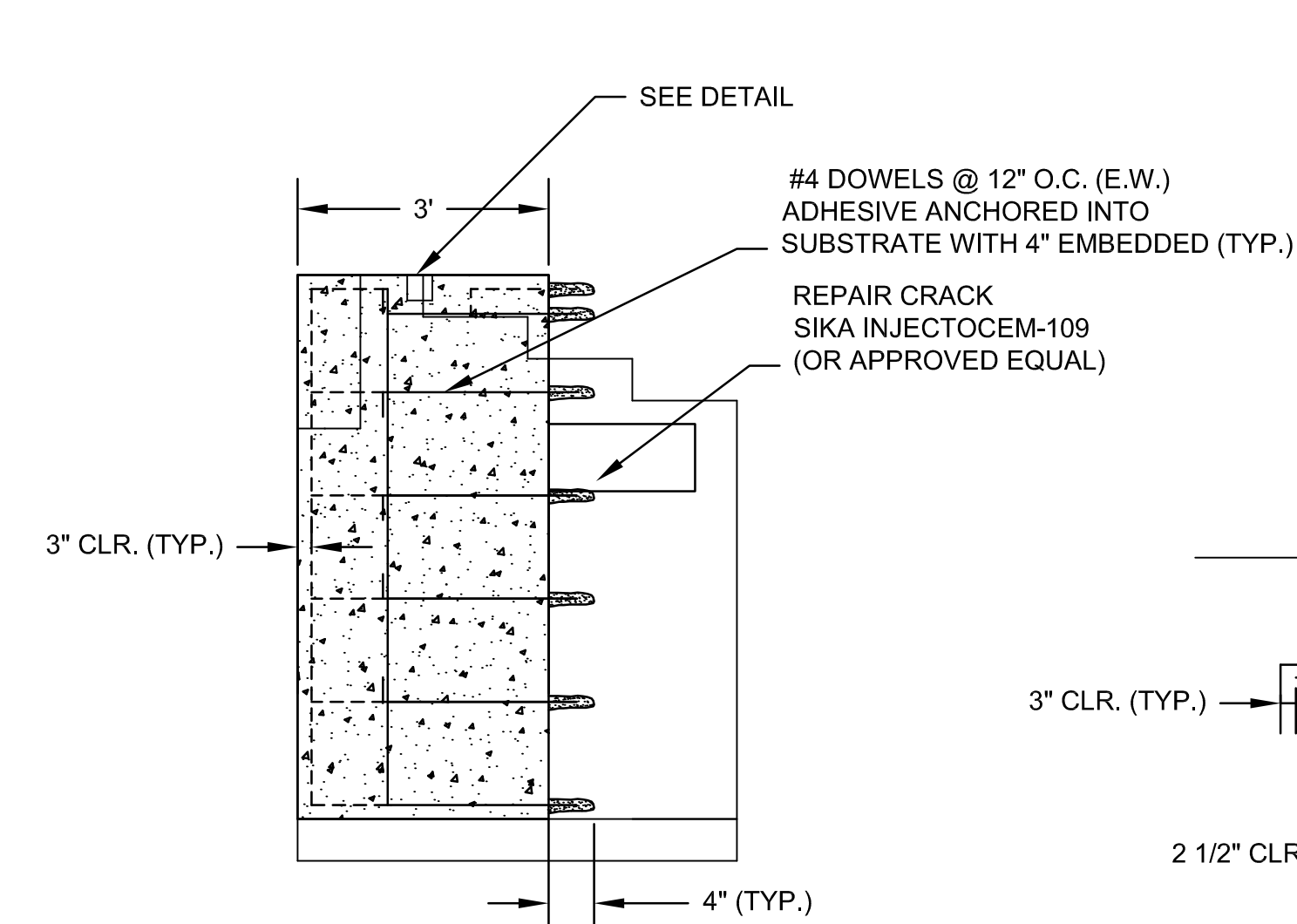
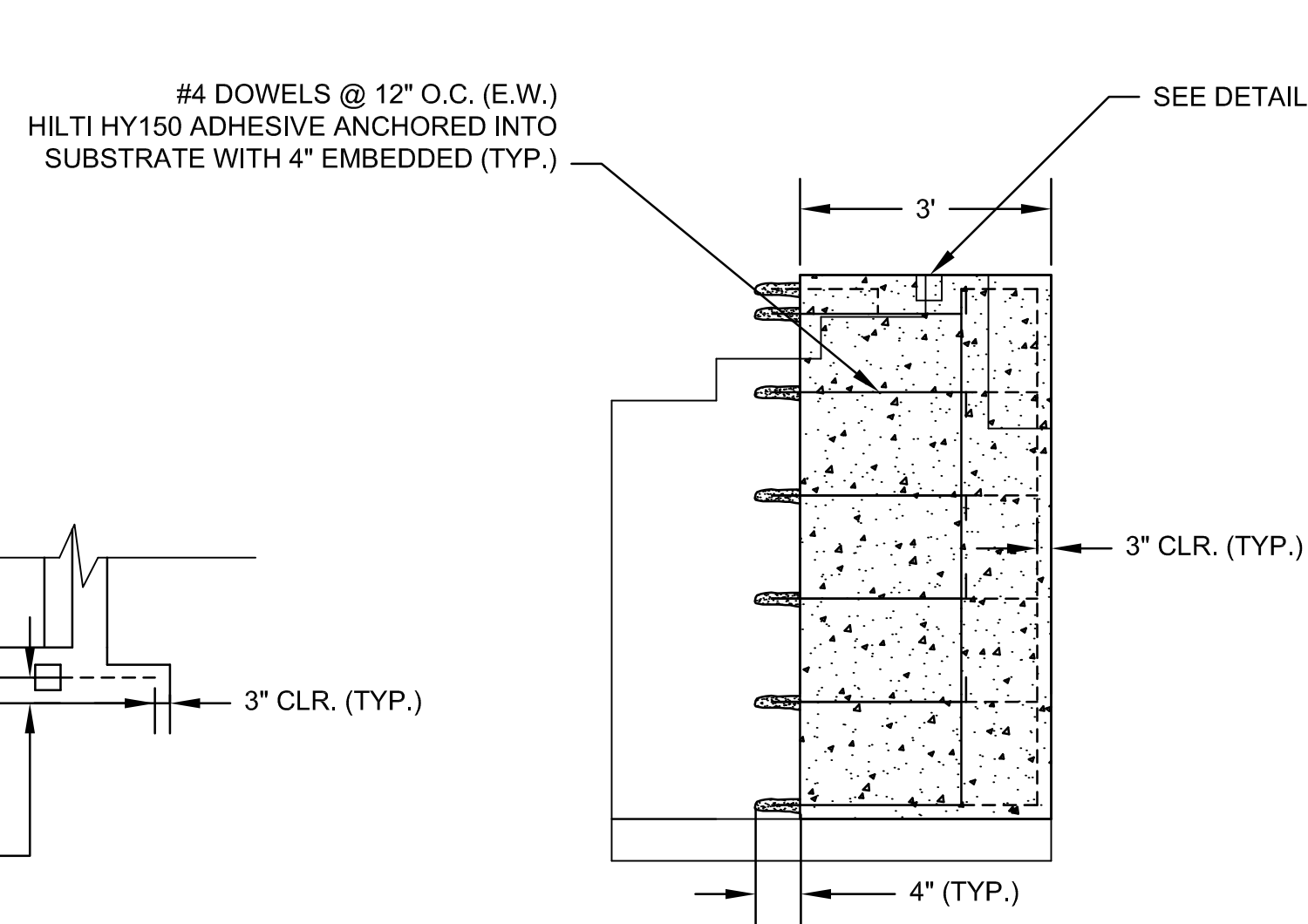
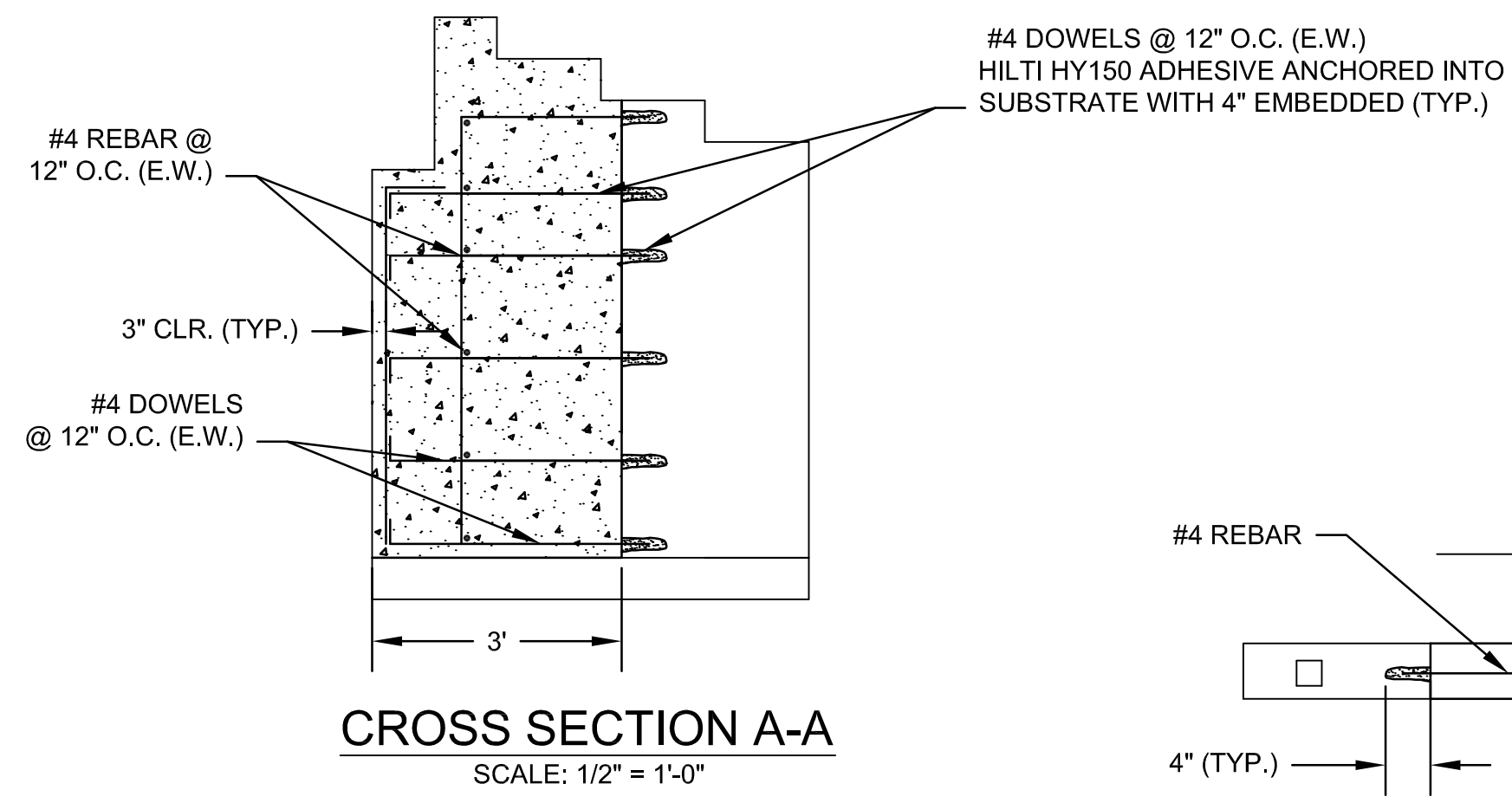
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NOTE: ALL MEASUREMENTS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR



LEGEND

▨ TO BE DEMOLISHED



Revision	By	Appd.	YY.MM.DD

A BID SET NW GRW 15.01.06
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File Name: 1202128-302.DWG BWA NW NW 14.07.25
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ISLAND PARK PEDIESTRIAN BRIDGE
ABUTMENT REPAIR
Ann Arbor, Michigan

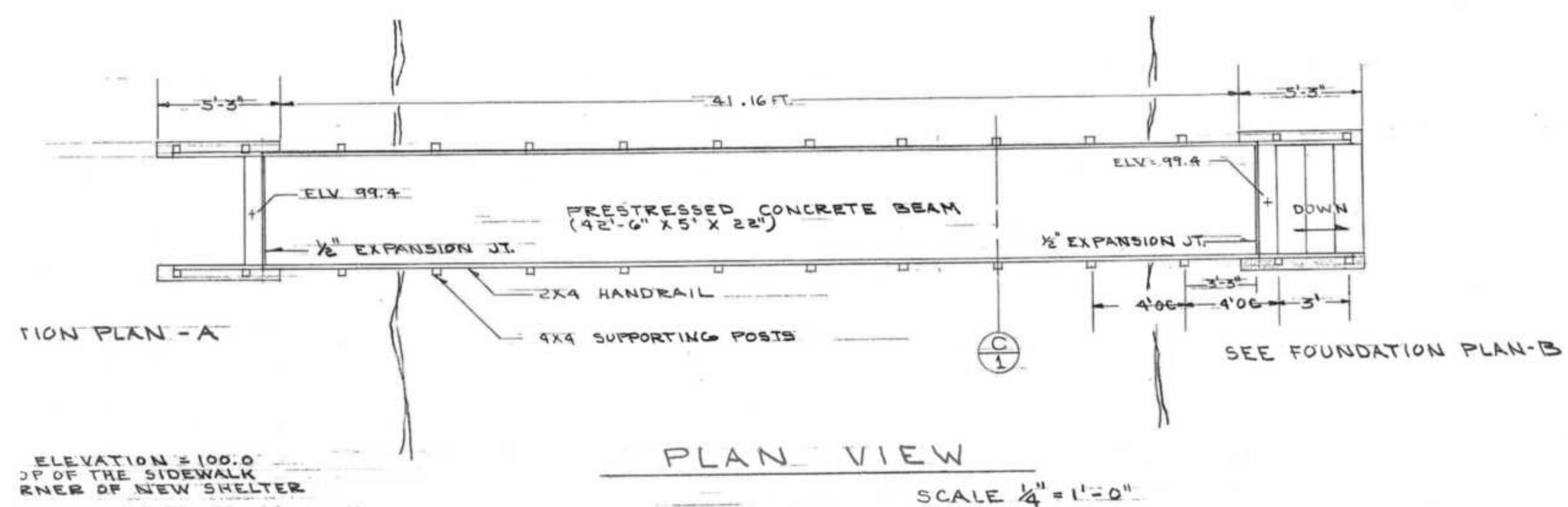
Title
SOUTH ABUTMENT
DEMOLITION AND REPAIRS

Project No. 2075120212
Drawing No. Sheet Revision

Scale 0 1' 2' 4'

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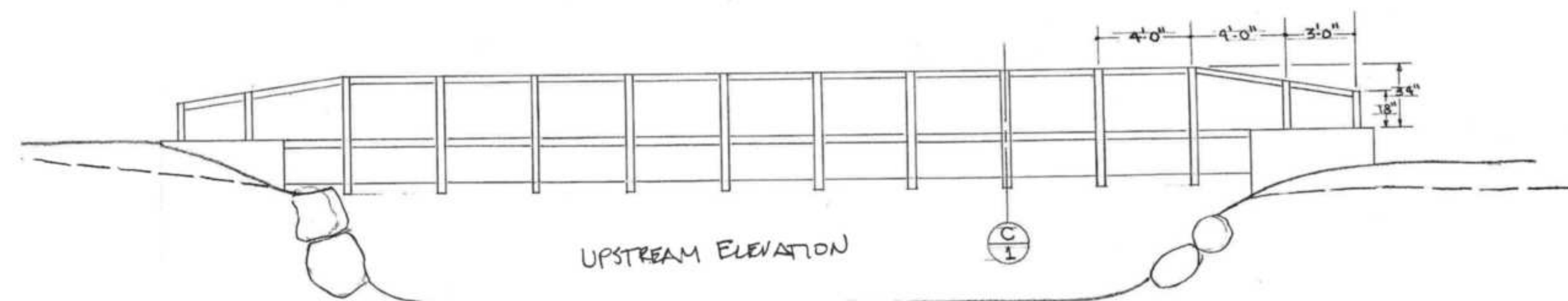


ELEVATION = 100.0
TOP OF THE SIDEWALK
RNER OF NEW SHELTER

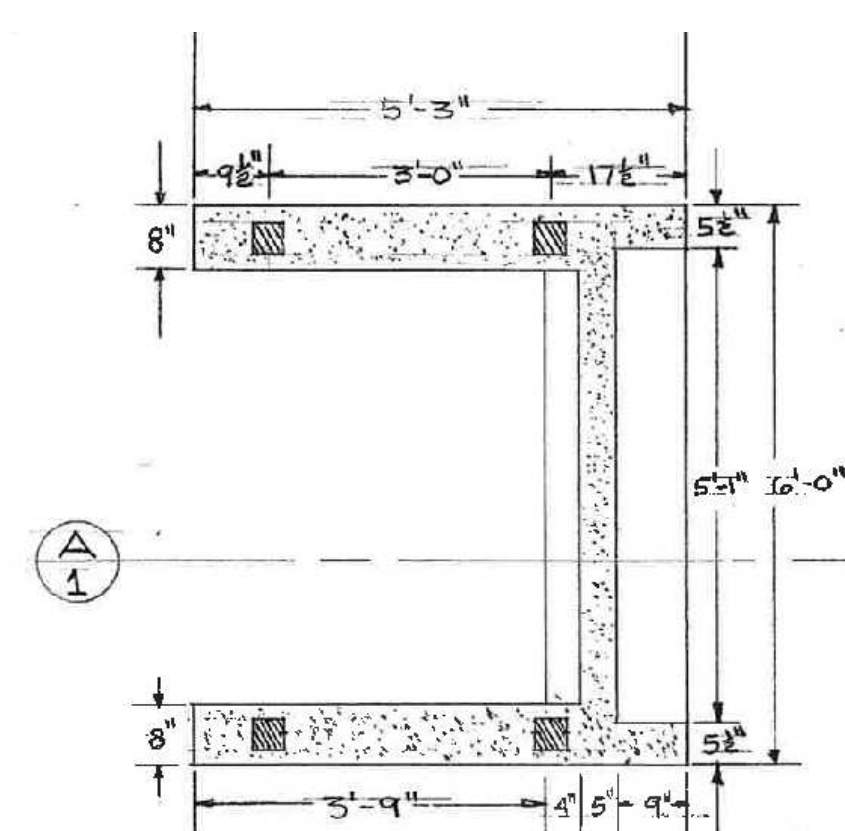
FOUNDATION PLAN - A

PLAN VIEW

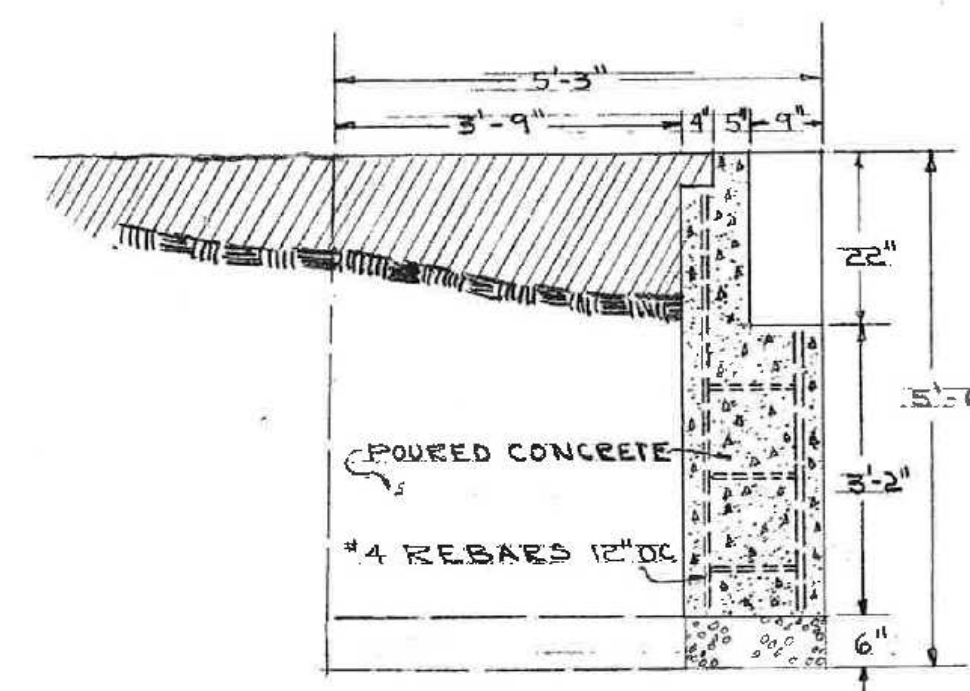
SCALE 1/4" = 1'-0"



UPSTREAM ELEVATION

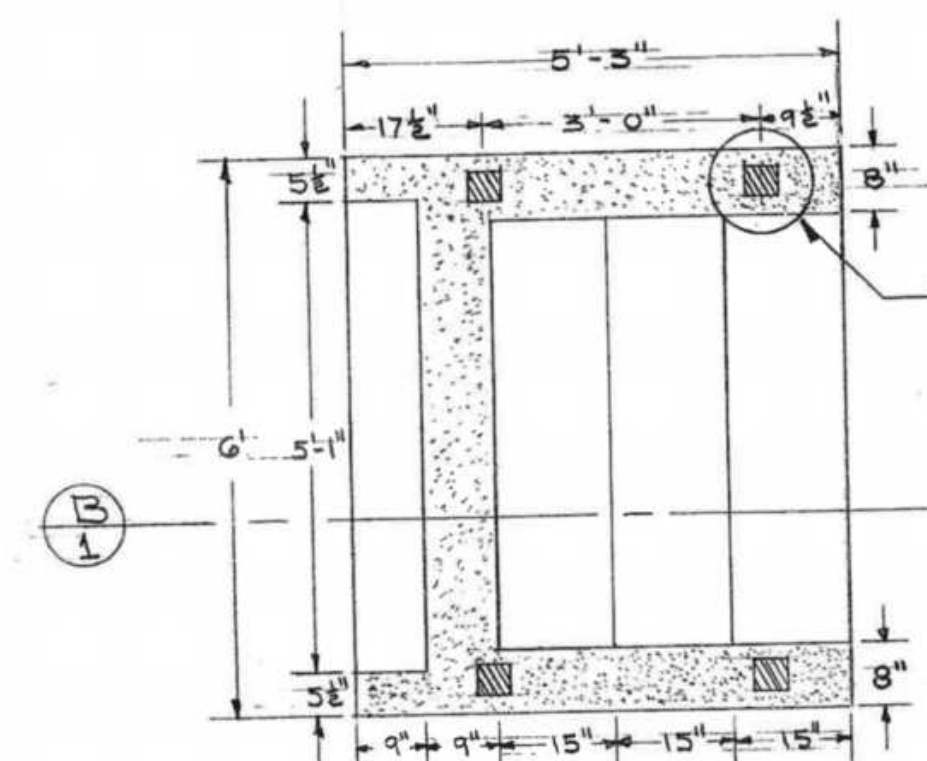


FOUNDATION PLAN - A

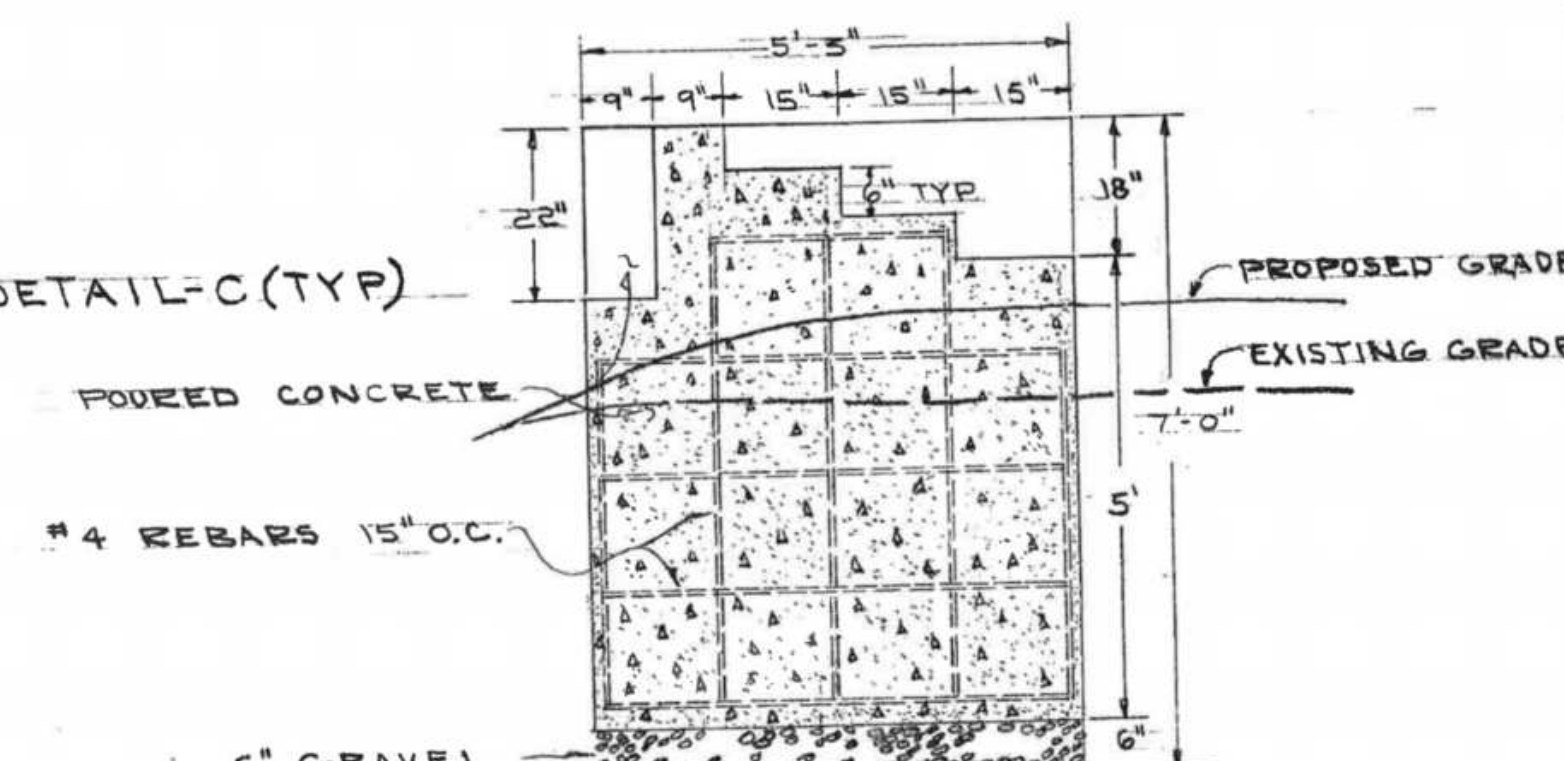


SECTION A-1

SCALE 1/2" = 1'-0"



FOUNDATION PLAN - B



SECTION B-1

SCALE 1/2" = 1'-0"

Revision	By	Appd.	YY.MM.DD
A BID SET	NW	GRW	15.01.06
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File Name: 120212R-501.DWG	BWA	NW	NW	14.07.25
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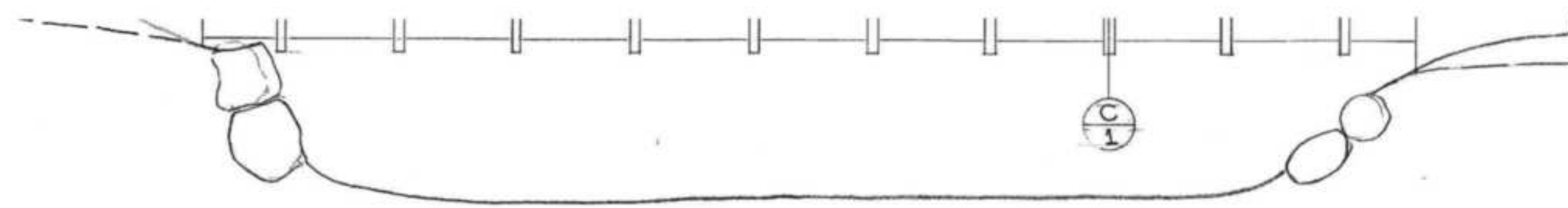
ISLAND PARK PEDIESTRIAN BRIDGE
ABUTMENT REPAIR
Ann Arbor, Michigan

Title

REFERENCE DRAWINGS I

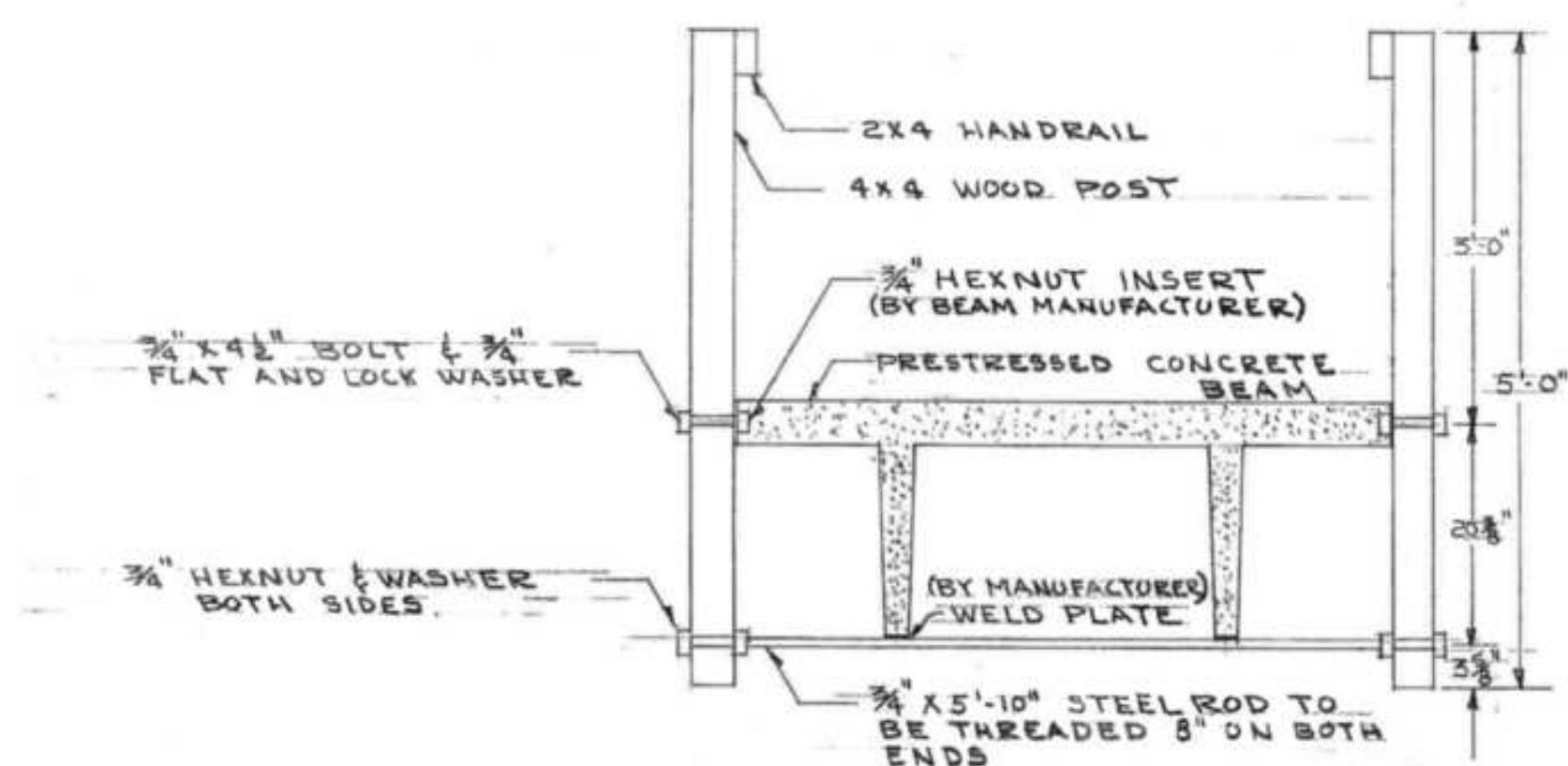
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2075120212	AS NOTED	
Drawing No.	Sheet	Revision

R-501 8 of 10 0



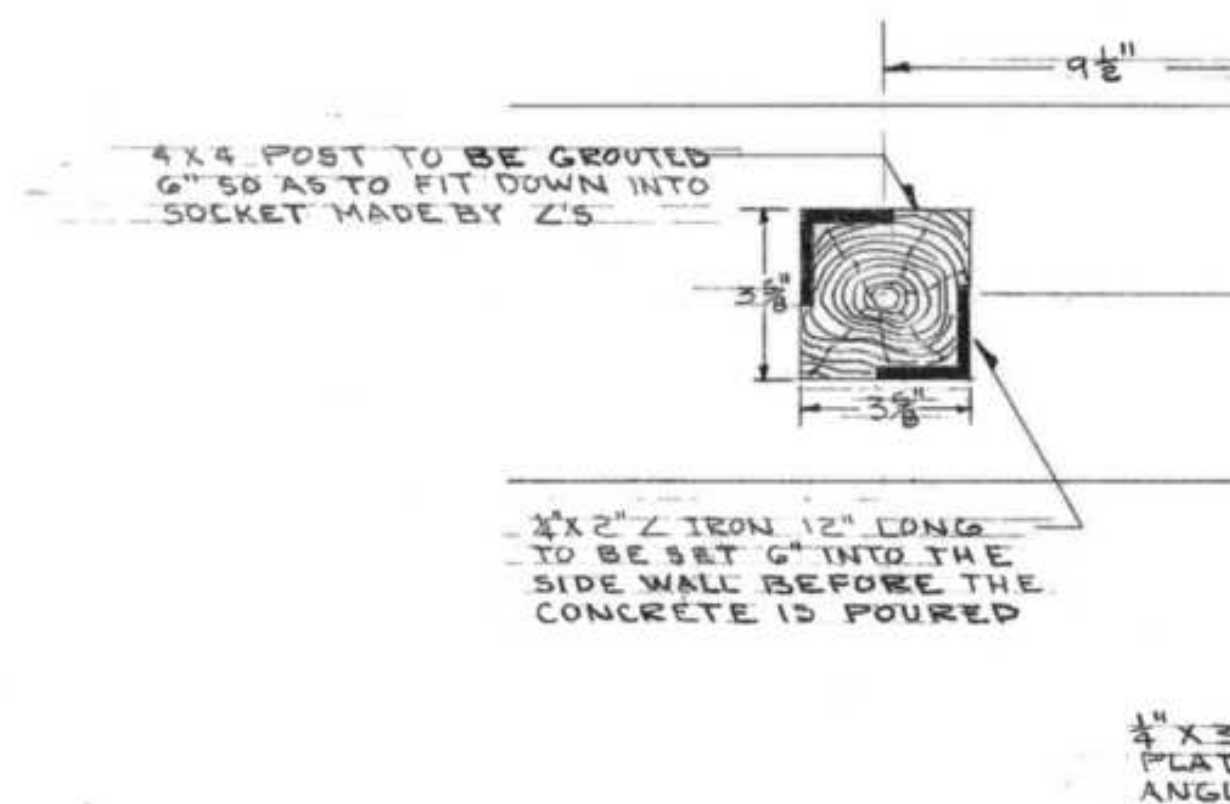
UPSTREAM ELEVATION

SCALE 1/4" = 1'-0"

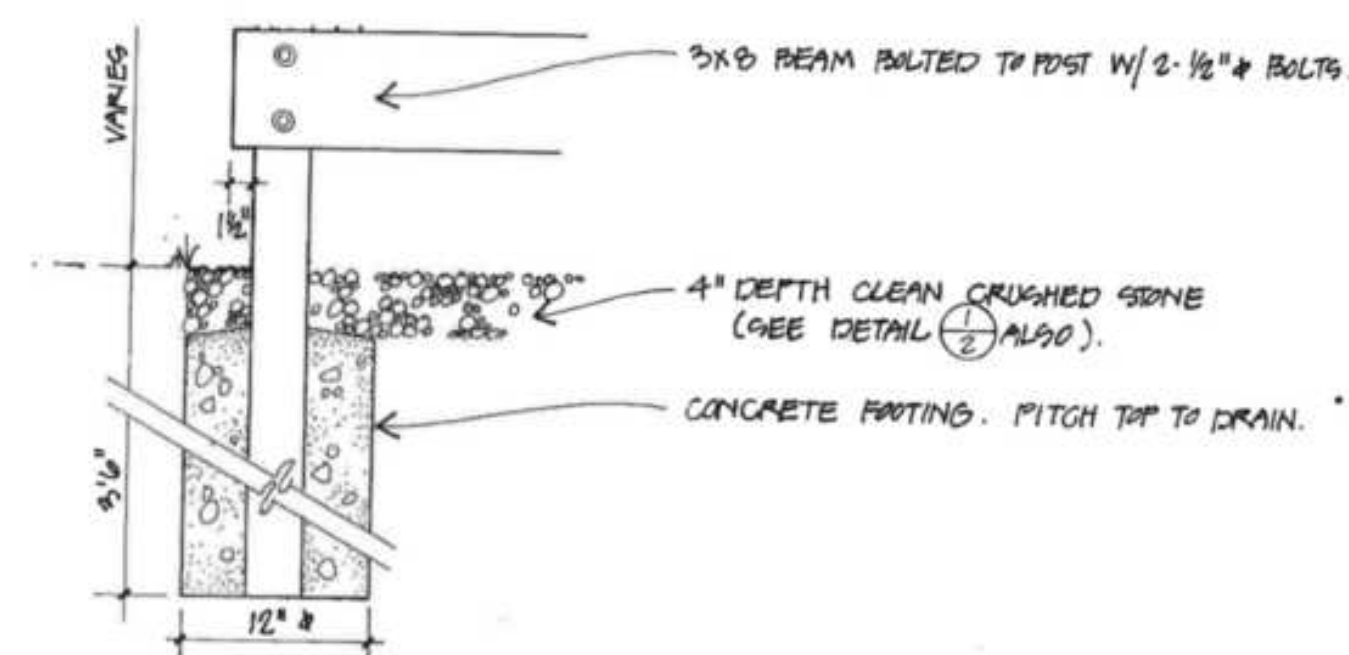


SECTION

SCALE 3/4" = 1'-0"

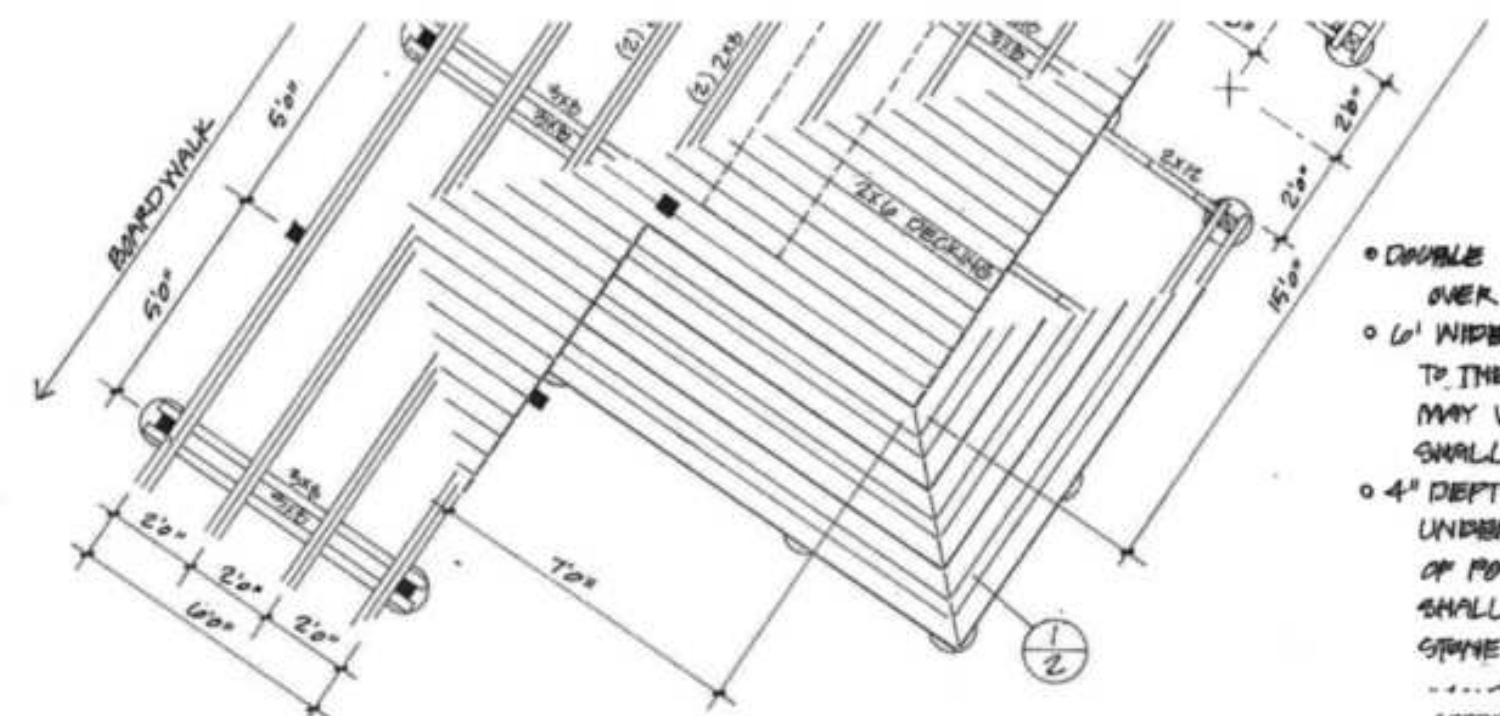


DETAIL-C PLAN & ISOMET



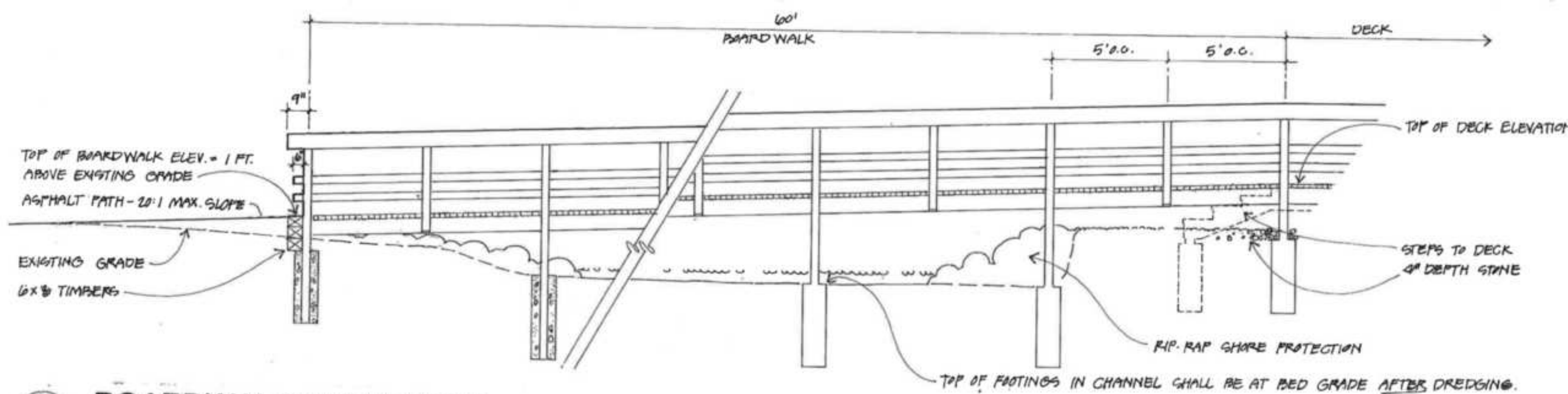
HANDRAIL

SCALE 1" = 1'-0"



FRAMING PLAN

SCALE 1/4" = 1'-0"



BOARDWALK ELEVATION

SCALE 1/4" = 1'-0"

Revision	By	Appd.	YY.MM.DD

A BID SET	NW	GRW	15.01.06
Issued	By	Appd.	YY.MM.DD

File Name: 120212R-502.DWG	BWA	NW	NW	14.07.25
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

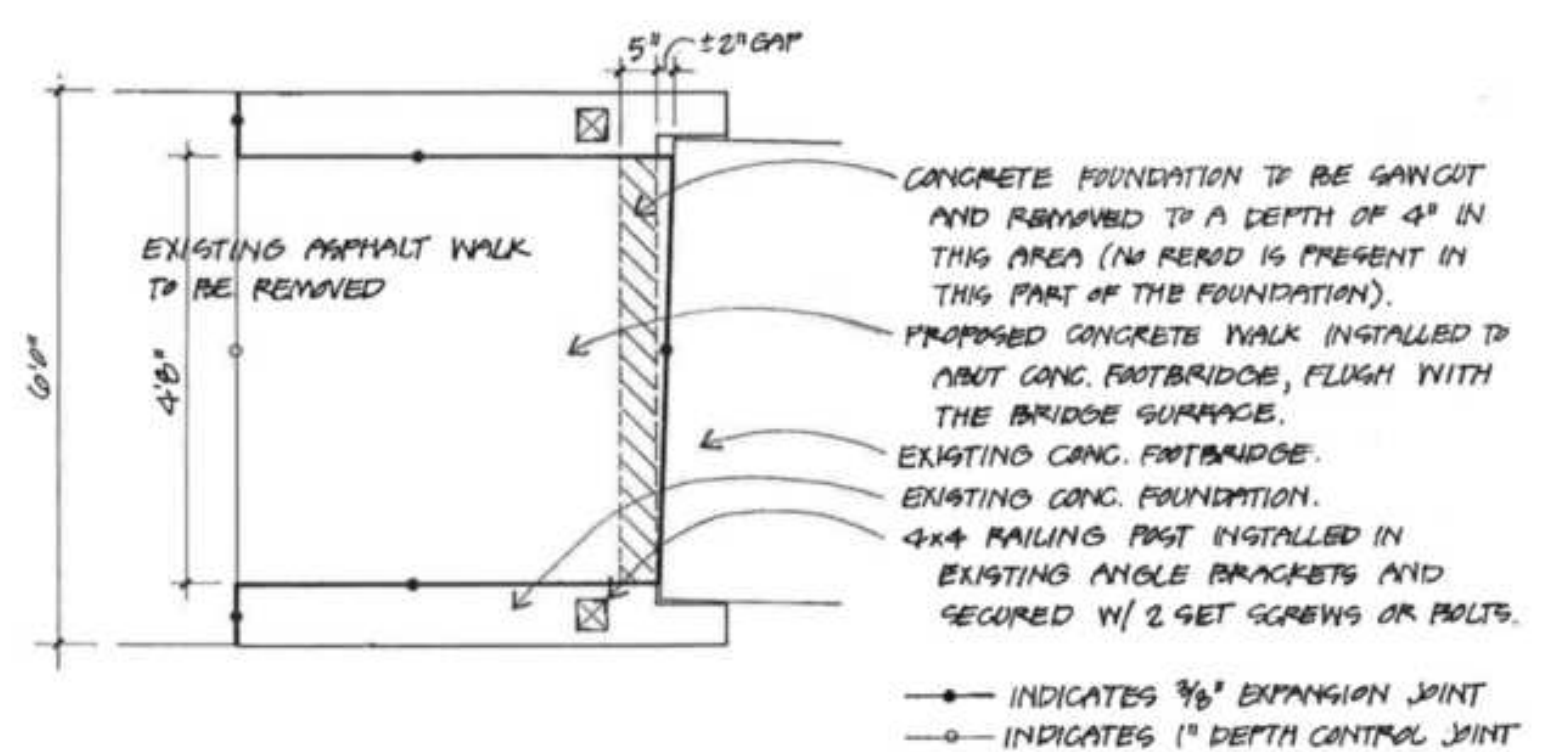
Client/Project
CITY OF ANN ARBOR

ISLAND PARK PEDIESTRIAN BRIDGE
ABUTMENT REPAIR
Ann Arbor, Michigan

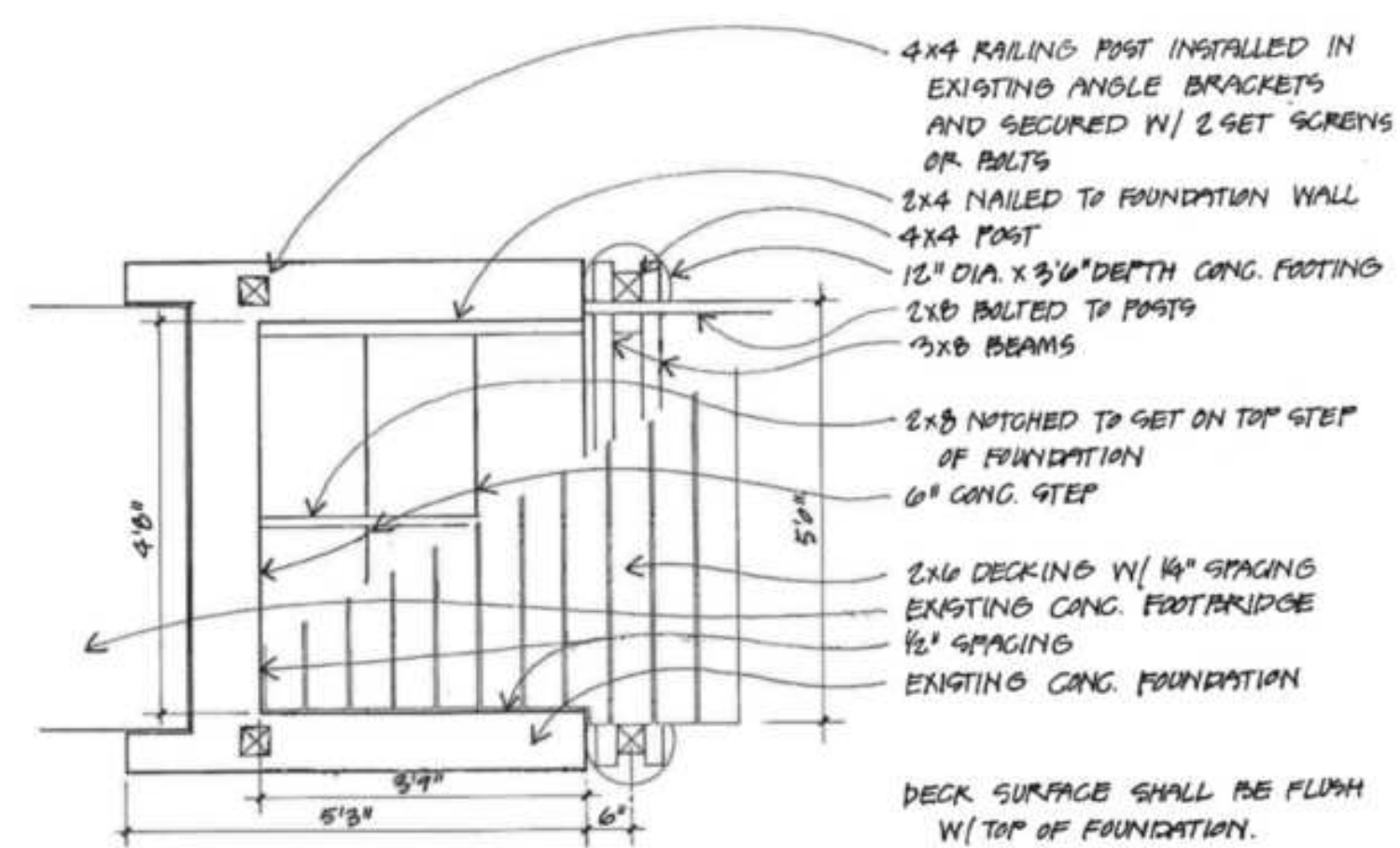
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REFERENCE DRAWINGS II

Project No.	Scale	
2075120212	AS NOTED	
Drawing No.	Sheet	Revision

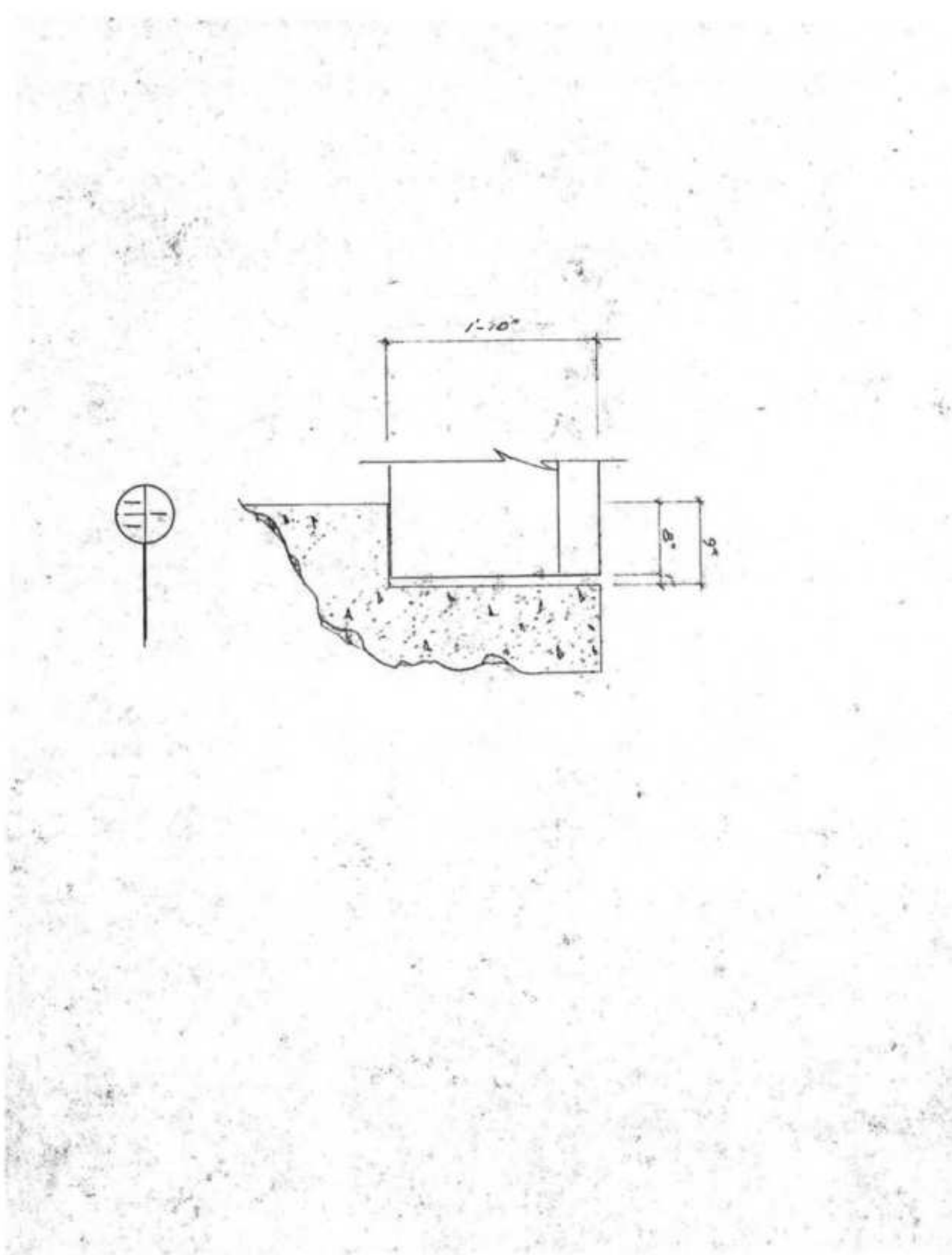
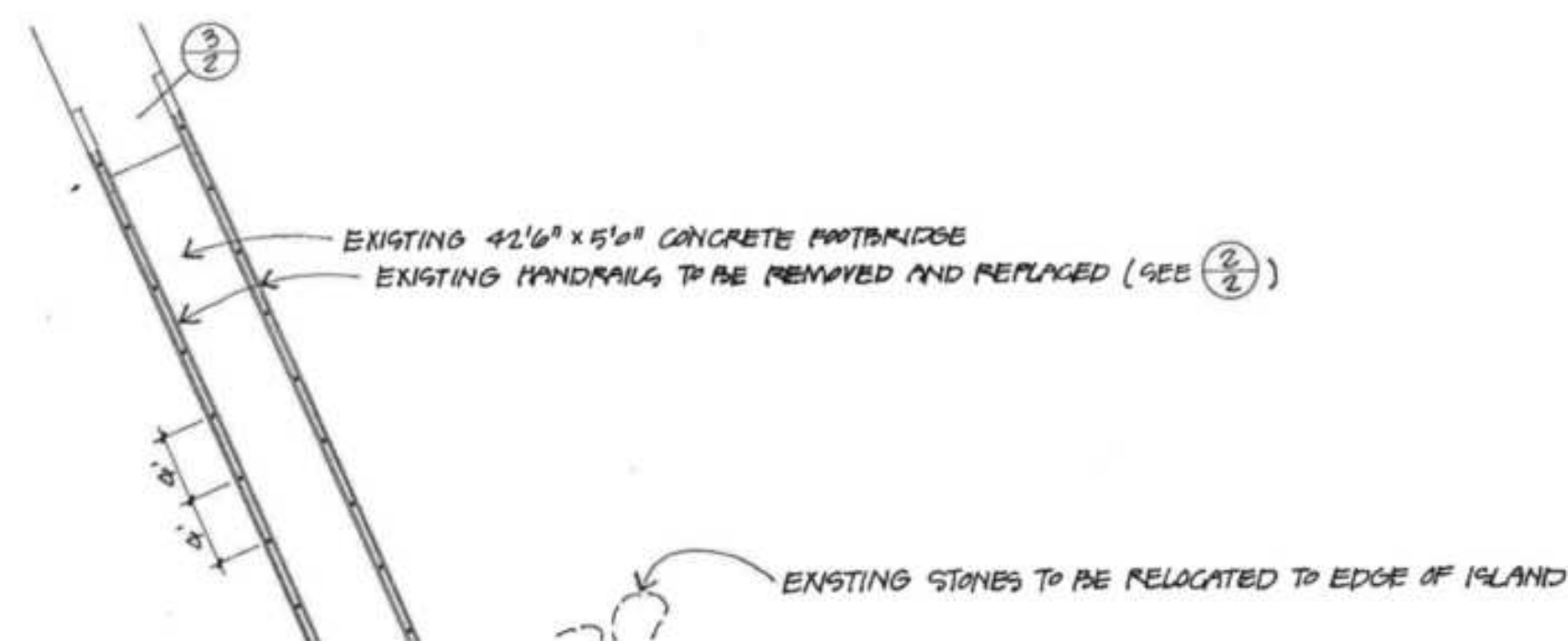


3 NW BRIDGE ABUTMENT
1/2" = 1'0"



4 SE BRIDGE ABUTMENT
1/2" = 1'0"

- ALL 3x8 BEAMS SHALL BE BOLTED TO POSTS W/ 2-1/2" x MACHINE BOLTS.
- THE OUTSIDE JOISTS ON BOTH THE 5' x 6' BOARDWALKS SHALL BE BOLTED TO POSTS W/ 2-3/8" x MACHINE BOLTS.
- INTERMEDIATE RAILING POSTS SHALL BE BOLTED TO JOISTS W/ 2-3/8" x MACHINE BOLTS.
- ALL MACHINE BOLTS SHALL BE INSTALLED W/ 2 FLAT WASHERS FOR BOLT, CARTRIDGE BOLTS W/ SINGLE WASHER. END OF BOLTS SHALL BE REBENT TO HINDER UNAUTHORIZED REMOVAL.
- 3x8 BEAMS SHALL BE NO. 1 DOUGLAS FIR. ALL OTHER LUMBER SHALL BE NO. 2 GYP. ALL LUMBER TO BE CCA TREATED PER ANPA SPEC.



Revision	By	Appd.	YY.MM.DD

A BID SET	NW	GRW	15.01.06
Issued	By	Appd.	YY.MM.DD

File Name:	BWA	NW	NW	14.07.25
120212R-503.DWG	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project
CITY OF ANN ARBOR

ISLAND PARK PEDIESTRIAN BRIDGE
ABUTMENT REPAIR
Ann Arbor, Michigan

Title

REFERENCE DRAWINGS III

Project No.	Scale	
2075120212	AS NOTED	
Drawing No.	Sheet	Revision

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