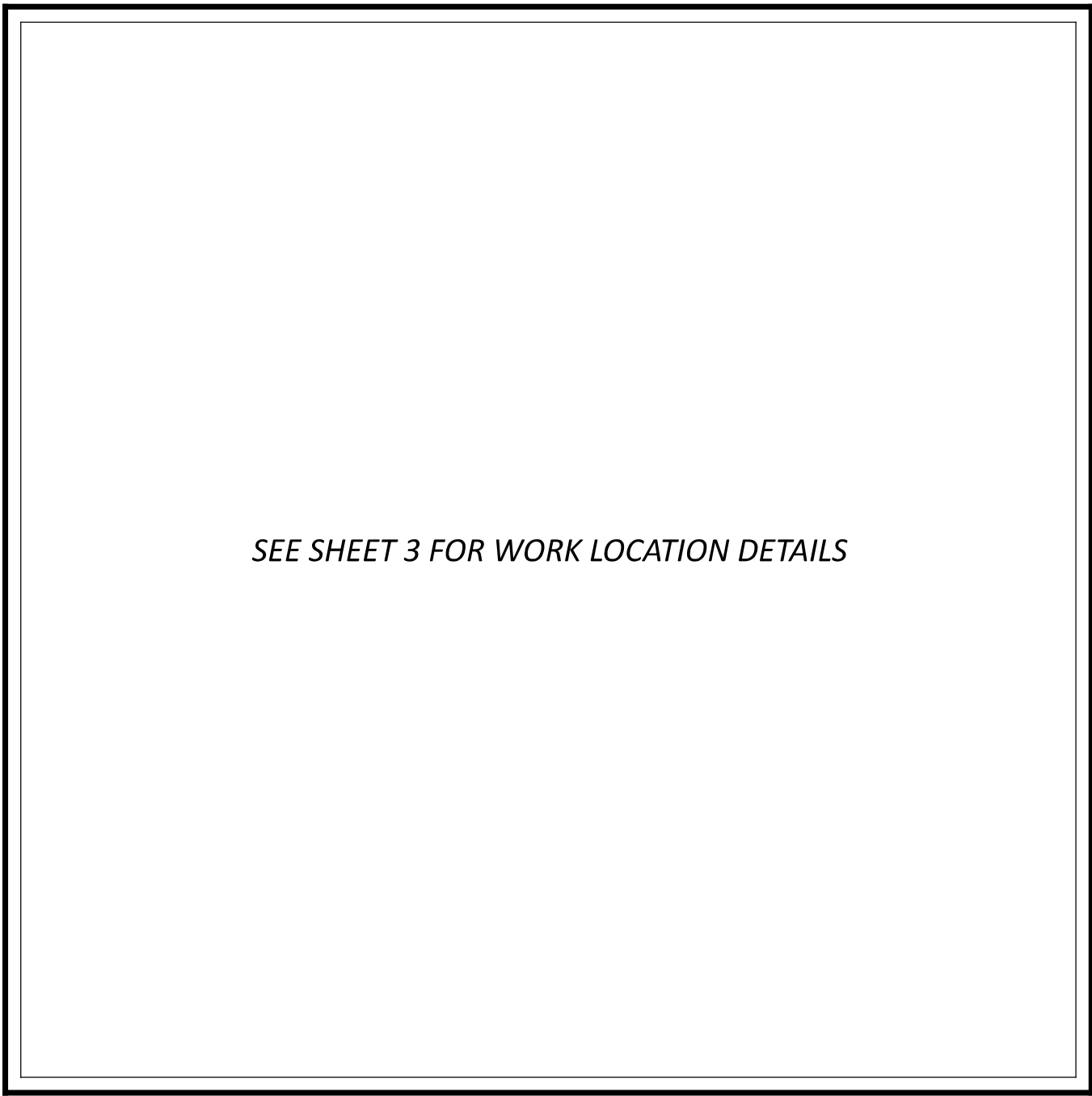




LOCATION MAP

LATITUDE: 40°53'9" LONGITUDE: -82°11'33"



PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

SEE SHEET 2 FOR INFORMATION

DESIGN EXCEPTIONS

N/A

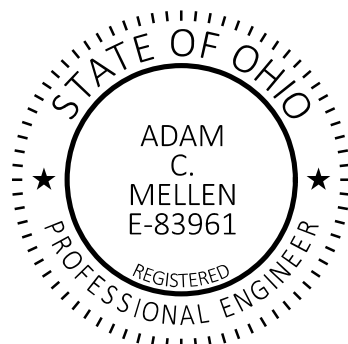
ADA DESIGN WAIVERS

N/A



PLANS PREPARED BY:
**OHIO DEPARTMENT OF
TRANSPORTATION**
DISTRICT THREE ENGINEERING

ENGINEER'S SEAL



STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
DM-4.3	1/15/16					800-2023	1/16/26
DM-4.4	1/15/16					832	7/18/25
						844	1/17/25
MT-95.30	7/18/25						
MT-95.45	7/21/23						
MT-95.50	7/21/17						
MT-98.22	1/17/20						
MT-105.10	1/17/20						
TC-41.20	10/18/13						
TC-42.20	10/18/13						
TC-52.10	10/18/13						
TC-52.20	1/15/21						

INDEX OF SHEETS:

TITLE SHEET
DESIGN DESIGNATIONS
SCHEMATIC SHEET
GENERAL NOTES
MAINTENANCE OF TRAFFIC NOTES
GENERAL SUMMARY
STRUCTURES OVER 20' SPAN
STRUCTURE REPAIR SUBSUMMARY
ASD-71-0416 (SFN: 0302465)
ASD-71-0637 (SFN: 0302643)
ASD-71-0756 (SFN: 0302708)
ASD-71-1111 (SFN: 0303097)
ASD-71-1190 (SFN: 0303127)
WAY-71-0368 (SFN: 8503125)
WAY-71-0508 (SFN: 8503184)

1	
2	
3	
4	
5	6
7	- 8
9	
10	- 11
12	- 13
14	- 15
16	- 17
18	- 19
20	- 21
22	- 23

FEDERAL PROJECT NUMBER

E260090

RAILROAD INVOLVEMENT

N/A

PROJECT DESCRIPTION

BRIDGE PIER COLUMN REPAIR THROUGHOUT
ASHLAND AND WAYNE COUNTIES ON IR-71

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	N/A ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	N/A ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A ACRES* (*=MAINTENANCE PROJECT)

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.


Robert Weaver
District 03 Deputy Director

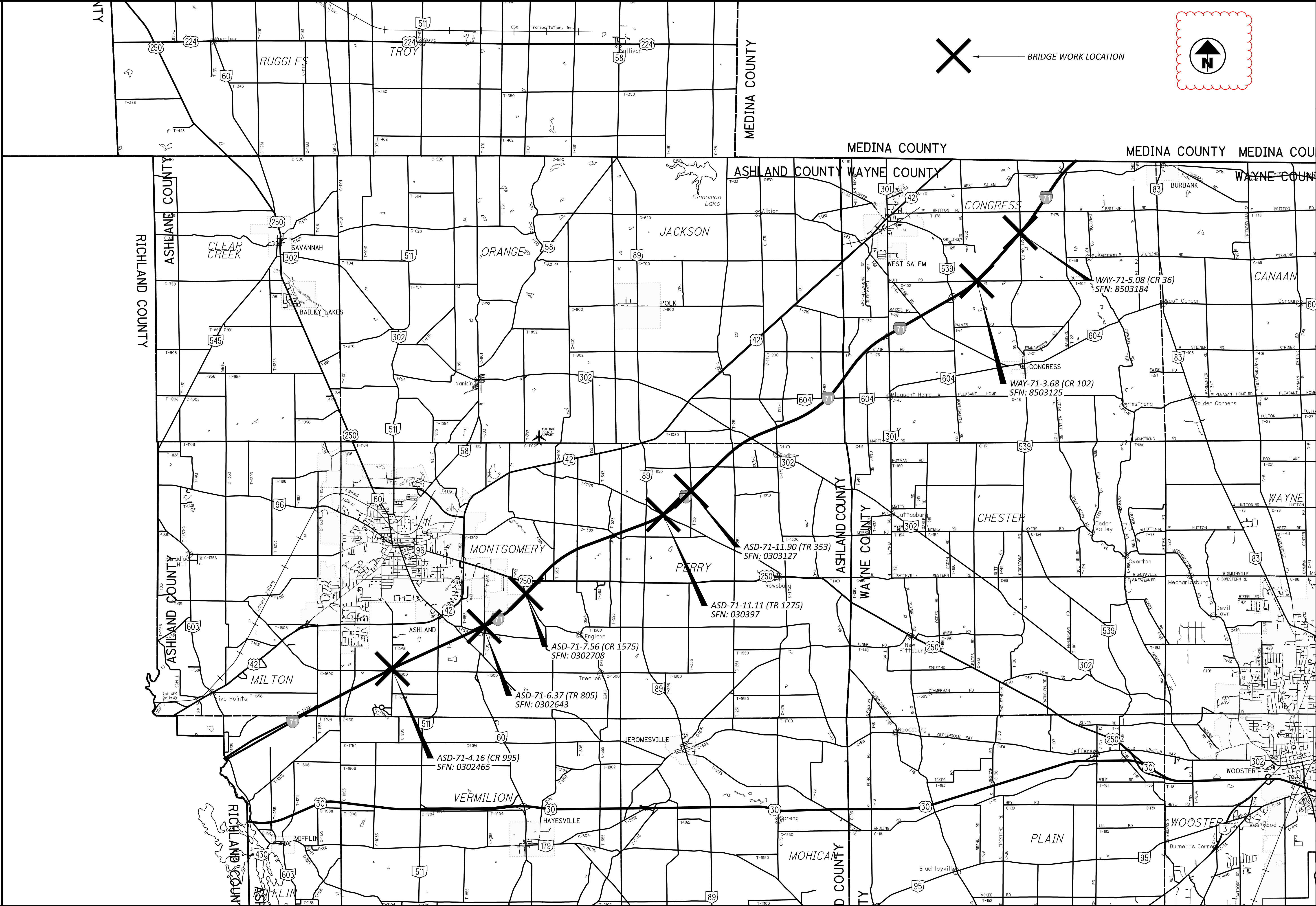

Pamela Boratyn
Director, Department of Transportation

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811.org
Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

DESIGN AGENCY
DISTRICT 3

ENGINEERING
TEAM ONE
DESIGNER
ERC
REVIEWER
ACM 06/10/26
PROJECT ID
112294
SHEET
P.01
TOTAL
23



SCHEMATIC SHEET

DESIGN AGENCY	
DISTRICT 3	
	
ENGINEERING TEAM ONE	
DESIGNER	
ERC	
REVIEWER	
ACM 06/10/26	
PROJECT ID	
112294	
SHEET	TOTAL
P.03	23

GENERAL

UTILITIES
(G102A)

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

CITY CITY OF ASHLAND 206 CLAREMONT AVENUE ASHLAND, OH 44805 419.289.8331	GAS NORTHEAST OHIO NATURAL GAS 9081 STATE ROUTE 250 STRASBURG, OH 44680 330.878.5589
ELECTRIC OHIO EDISON 2508 WEST PERKINS AVENUE SANDUSKY, OH 44870 419.627.6881	GAS DIVERSIFIED GAS & OIL PLC 1800 CORPORATE DRIVE BIRMINGHAM, AL 35242 205.408.0909
COMMUNICATION EVERSTREAM SOLUTIONS 800 W ST CLAIR, 2ND FLOOR CLEVELAND, OH 44113 216.581.7972	ELECTRIC FIRELANDS ELECTRIC 1 ENERGY PLACE NEW LONDON, OH 44851 419.929.1571
COMMUNICATION FRONTIER COM 83 TOWNSEND AVENUE NORWALK, OH 44857 419.744.3613	GAS KINDER MORGAN 605 WESTLAKE DRIVE ASHLAND, OH 44805 714.560.4967
GAS MFC DRILLING COMPANY 46281 U.S. HIGHWAY 36 COSHOCTON, OH 43812 740.622.5600	CABLE MASSILLON CABLE TELEVISION P.O. BOX 917 WOOSTER, OH 44691 330.345.5110
TRAFFIC ODOT DISTRICT THREE 906 CLARK AVENUE ASHLAND, OH 44805 419.207.2868	

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

WORK LIMITS
(G106)

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

STRUCTURE REPAIR

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND OTHER REPAIRS. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

EXISTING PLANS

EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT THREE OFFICE IN ASHLAND:

PLAN NAME	DATE
ASD-71-0416_(SFN_0302465)_ORIGINAL_1958	1958
ASD-71-0637_(SFN_0302643)_ORIGINAL_1958	1958
ASD-71-0756_(SFN_0302708)_ORIGINAL_1958	1958
ASD-71-1111_(SFN_0303097)_ORIGINAL_1957	1957
ASD-71-1190_(SFN_0303127)_ORIGINAL_1957	1957
WAY-71-0368_(SFN_8503125)_ORIGINAL_1957	1957
WAY-71-0518_(SFN_8503184)_ORIGINAL_1957	1957
D03-850791_BP-11-85_1985	1985
ASD-71-1190 OVERLAY 1986	1986
D03-BH-FY2012(B)	2012
D03-18951_D03-BP-FY2006_2005	2026

STANDARD BRIDGE DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

SUPPLEMENTAL SPECIFICATION: 844 (DATED: 01/17/2025)

DESIGN DATA:

CONCRETE CLASS QC1 – COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)
WELDED WIRE FABRIC - YIELD STRENGTH 70 KSI

ITEM 519 – PATCHING CONCRETE STRUCTURES

REPAIR ALL AREAS IDENTIFIED IN THE PLANS FOR PATCHING PER ITEM 519. EPOXY-URETHANE SEAL EACH PATCH AND 6” BEYOND THE EDGE OF THE PATCH, EXCEPT FOR REPAIRS WHERE THE ENTIRE COLUMN IS CALLED OUT FOR EPOXY-URETHANE SEALING. THIS ITEM IS TO BE USED IN CONJUNCTION WITH ITEM 844 - GALVANIC ANODE PROTECTION.

ITEM 844 – GALVANIC ANODE PROTECTION
(BDM 702.17-1)

REPAIR CONCRETE SHALL BE HYDRAULIC CEMENT-BASED MATERIAL WITH AN ELECTRICAL RESISTIVITY LESS THAN 50,000 OHM-CM ACCORDING TO ASTM C 1760. DO NOT USE NON- CONDUCTIVE REPAIR MATERIALS SUCH AS MAGNESIUM AMMONIUM PHOSPHATE CONCRETE AND EPOXY MORTARS OR BONDING AGENTS. CONCRETE MIXES CONTAINING HIGH LEVELS OF SUPPLEMENTARY CEMENTITIOUS MATERIALS SUCH AS SILICA FUME, GROUND GRANULATED BLAST FURNACE SLAG, LATEX, FLY ASH OR METAKAOLIN MAY NOT MEET THE RESISTIVITY REQUIREMENT.

THE GALVANIC ANODE SIZE AND SPACING IS BASED ON ACHIEVING A CURRENT DENSITY FOR THE EXTREMELY HIGH CORROSION RISK CATEGORY WITH A 10 YEAR INSTALLATION. SUPPLY ANODES WITH A MINIMUM CORE OF 100 GRAMS OF ZINC.

THIS ITEM IS TO BE USED IN CONJUNCTION WITH ITEM 519 – PATCHING CONCRETE STRUCTURES.

ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
(BDM 603.1-3)

REMOVE ALL CONCRETE AND REINFORCEMENT COMPRISING THE EXISTING PIER ENCASEMENT DOWN TO THE ORIGINAL PIER, AS WELL AS ANY UNSOUND CONCRETE IN THE ORIGINAL PIER. PRESERVE ALL REINFORCEMENT IN THE ORIGINAL PIER.

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL. THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING CONCRETE REINFORCEMENT TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

SOUND THE CONCRETE TO DETERMINE THE LIMITS OF THE CONCRETE TO BE REMOVED AND COMPARE THESE LIMITS TO THE AREAS SHOWN IN THE PLANS. IF NEW AREAS ARE DISCOVERED OR IF THE DIMENSIONS OF THE PLAN AREAS INCREASE BY MORE THAN 25% IN ANY DIRECTION, DOCUMENT THE AREAS AND NOTIFY THE ENGINEER FOR EVALUATION TWO WEEKS PRIOR TO REMOVAL. THE ENGINEER WILL DETERMINE IF PATCHING IN DISCRETE SECTIONS/STAGES IS NEEDED OR IF THE INSTALLATION OF TEMPORARY FALSEWORK IS REQUIRED.

THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS FOR EACH STRUCTURE WHERE THIS WORK IS PERFORMED. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICES FOR ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

ITEM 511 – CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
(BDM C405.10)

PREPARE ALL COLUMN SURFACES TO BE ENCASED PER C&MS 519. INSTALL ANCHORS (EPOXY OR EXPANSION) AS NEEDED TO SUPPORT AND POSITION WELDED WIRE FABRIC REINFORCEMENT WITH A MINIMUM OF 3.0” COVER AT ALL EXPOSED SURFACES. ENCASE THE COLUMN FROM 1’ BELOW THE GROUNDLINE TO THE HEIGHT INDICATED ON THE CORRESPONDING DETAIL WITH A MINIMUM THICKNESS OF 6” OF CONCRETE UNLESS OTHERWISE DETIALED, REINFORCED WITH 6x6-W4.0XW4.0, WELDED WIRE FABRIC. ENSURE THAT THE EXPOSED TOP OF ENCASING CONCRETE IS SLOPED TO DRAIN WATER. SEAL ALL EXPOSED NEW CONCRETE WITH ITEM 512 – SEALING OF CONCRETE SURFACES (EPOXY URETHANE).

WHEN PLACING CONCRETE ADJACENT TO A CONCRETE BRIDGE PARAPET, DO NOT PLACE ANY CONCRETE PAST THE BACK OF THE PARAPET TO PREVENT ADDING ANY POTENTIAL CATCH POINTS.

PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT PRICE PER CUBIC YARD FOR ITEM 511 – CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN, AND SHALL INCLUDE ALL EQUIPMENT, LABOR, AND MATERIALS REQUIRED TO ACCOMPLISH THIS WORK NOT SEPARATELY ITEMIZED.

SHEET NUMBER			PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	9							
			01/IMS	832	30000	5,000	EACH	EROSION CONTROL	
								STRUCTURE REPAIR ASD-71-0416 (SFN: 0302465)	
		3	3	203	10000	3	CY	EXCAVATION	
		3	3	203	20000	3	CY	EMBANKMENT	
		202	202	509	25000	202	LB	UNCOATED STEEL REINFORCEMENT	
		6	6	511	53010	6	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN	4
		99	99	512	10100	99	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		61	61	512	74000	61	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								STRUCTURE REPAIR ASD-71-0637 (SFN:0302643)	
		1	1	203	10000	1	CY	EXCAVATION	
		1	1	203	20000	1	CY	EMBANKMENT	
		196	196	509	25000	196	LB	UNCOATED STEEL REINFORCEMENT	
		6	6	511	53010	6	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN	4
		41	41	512	10100	41	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		16	16	519	11100	16	SF	PATCHING CONCRETE STRUCTURE	
		16	16	844	20000	16	EACH	GALVANIC ANODE PROTECTION	
								STRUCTURE REPAIR ASD-71-0756 (SFN:0302708)	
		1	1	203	10000	1	CY	EXCAVATION	
		1	1	203	20000	1	CY	EMBANKMENT	
		99	99	509	25000	99	LB	UNCOATED STEEL REINFORCEMENT	
		3	3	511	53010	3	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN	4
		38	38	512	10100	38	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		19	19	512	74000	19	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								STRUCTURE REPAIR ASD-71-1111 (SFN:0303097)	
		1	1	203	10000	1	CY	EXCAVATION	
		1	1	203	20000	1	CY	EMBANKMENT	
		84	84	509	25000	84	LB	UNCOATED STEEL REINFORCEMENT	
		3	3	511	53010	3	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN	4
		18	18	512	10100	18	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		6	6	519	11100	6	SF	PATCHING CONCRETE STRUCTURE	
		10	10	844	20000	10	EACH	GALVANIC ANODE PROTECTION	
								STRUCTURE REPAIR ASD-71-1190 (SFN:0303127)	
		2	2	203	10000	2	CY	EXCAVATION	
		2	2	203	20000	2	CY	EMBANKMENT	
		323	323	509	25000	323	LB	UNCOATED STEEL REINFORCEMENT	
		9	9	511	53010	9	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN	4
		89	89	512	10100	89	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		21	21	512	74000	21	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
		22	22	519	11100	22	SF	PATCHING CONCRETE STRUCTURE	
		32	32	844	20000	32	EACH	GALVANIC ANODE PROTECTION	
								STRUCTURE REPAIR WAY-71-0368 (SFN:8503125)	
		LS	LS	202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	4
		2	2	203	10000	2	CY	EXCAVATION	
		2	2	203	20000	2	CY	EMBANKMENT	
		394	394	509	25000	394	LB	UNCOATED STEEL REINFORCEMENT	
		11	11	511	53010	11	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN	4
		76	76	512	10100	76	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								STRUCTURE REPAIR WAY-71-0508 (SFN:8503184)	
		2	2	203	10000	2	CY	EXCAVATION	4
		2	2	203	20000	2	CY	EMBANKMENT	
		102	102	509	25000	102	LB	UNCOATED STEEL REINFORCEMENT	
		3	3	511	53010	3	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN	4
		52	52	512	10100	52	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		33	33	512	74000	33	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
		18	18	519	11100	18	SF	PATCHING CONCRETE STRUCTURE	
		24	24	844	20000	24	EACH	GALVANIC ANODE PROTECTION	

GENERAL SUMMARY

DESIGN AGENCY
DISTRICT 3



ENGINEERING
TEAM ONE

DESIGNER
ERC

REVIEWER
ACM 06/10/26

PROJECT ID
112294

SHEET
P.07

TOTAL
23

ASD/WAY-BH-FY2027(B)

MODEL: GS2 PAPER:SIZE: 34x22 (in.) DATE: 8/10/2028 TIME: 4:51:33 PM PLT:RDR: OHDOT_Pen.tlp USER: Joseph.Clark@dot.ohio.gov WORKSPACE: OHDOTCEV02 WORKSET: 112294 PRODUCT: OpenRoadsDesigner 24.00.00.205
 pw:\Veholad-pw.bentley.com:ohdotd-pw-02\Documents\01 Active Projects\Road\Sheet\03\Aashd\112294\400-Engineering\Road\Sheets\112294_G0001.dgn

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GENERAL SUMMARY

DESIGN AGENCY	
DISTRICT 3	
	
ENGINEERING TEAM ONE	
DESIGNER	
ERC	
REVIEWER	
ACM 06/10/26	
PROJECT ID	
112294	
SHEET	TOTAL
P.08	23

ITEM	QUANTITY							TOTALS	UNIT	DESCRIPTION
	ASD-71-0416 SFN: 0302465	ASD-71-0637 SFN: 0302643	ASD-71-0756 SFN: 0302708	ASD-71-1111 SFN: 0303097	ASD-71-1190 SFN: 0303127	WAY-71-0368 SFN: 8503125	WAY-71-0508 SFN: 8503184			
202E11201						LS		LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
203E10000	3	1	1	1	2	2	2	11	CY	EXCAVATION
203E20000	3	1	1	1	2	2	2	10	CY	EMBANKMENT
509E25000	202	196	99	84	323	394	102	1400	LB	UNCOATED STEEL REINFORCEMENT (6x6-W4.0XW4.0, WELDED WIRE FABRIC)
511E53010	6	6	3	3	9	11	3	41	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
512E10100	99	41	38	18	89	76	52	413	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512E74000	61		19		21		33	134	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
519E11100		16		6	22		18	62	SF	PATCHING CONCRETE STRUCTURE
844E20000		16		10	32		24	82	EA	GALVANIC ANODE PROTECTION

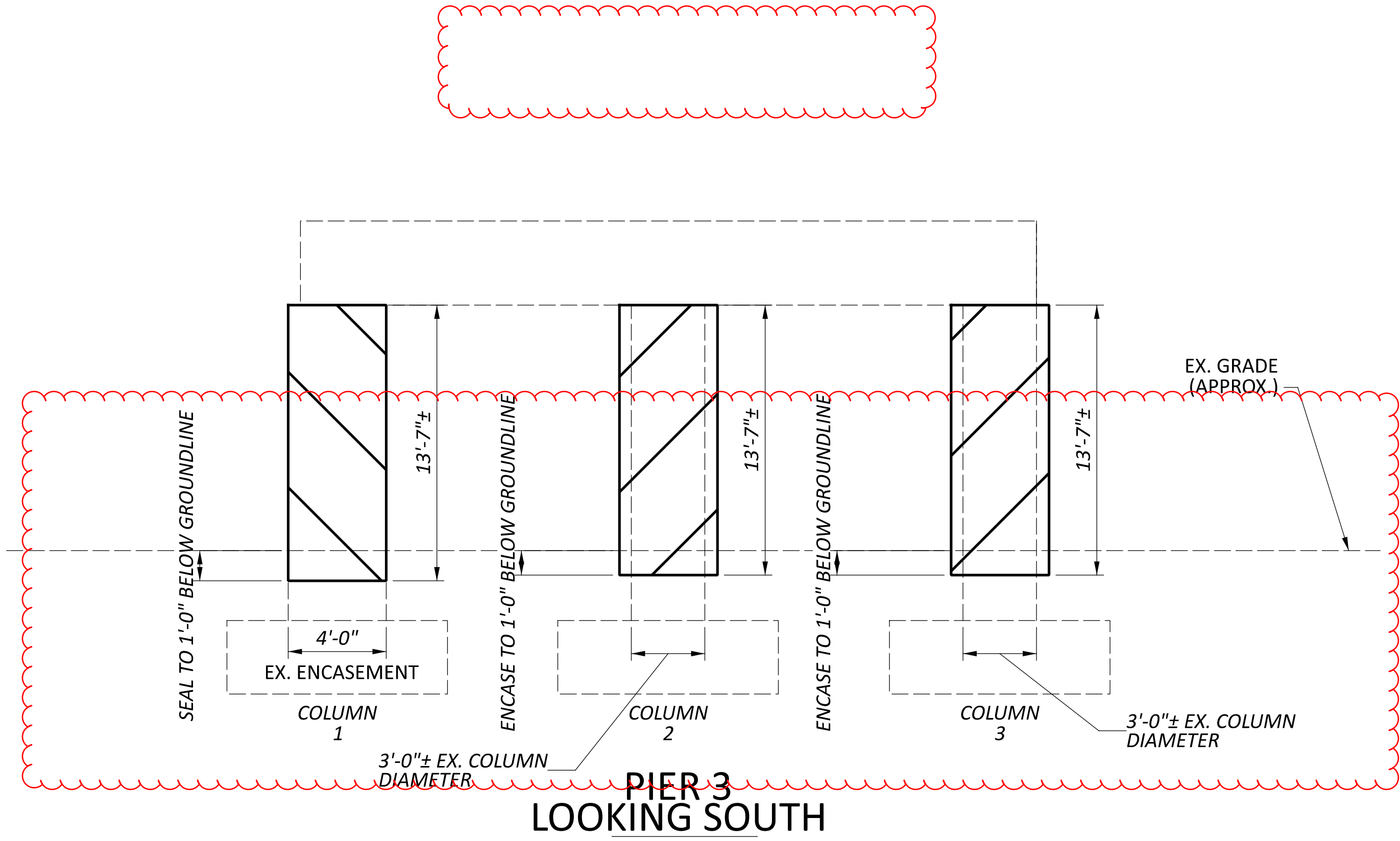
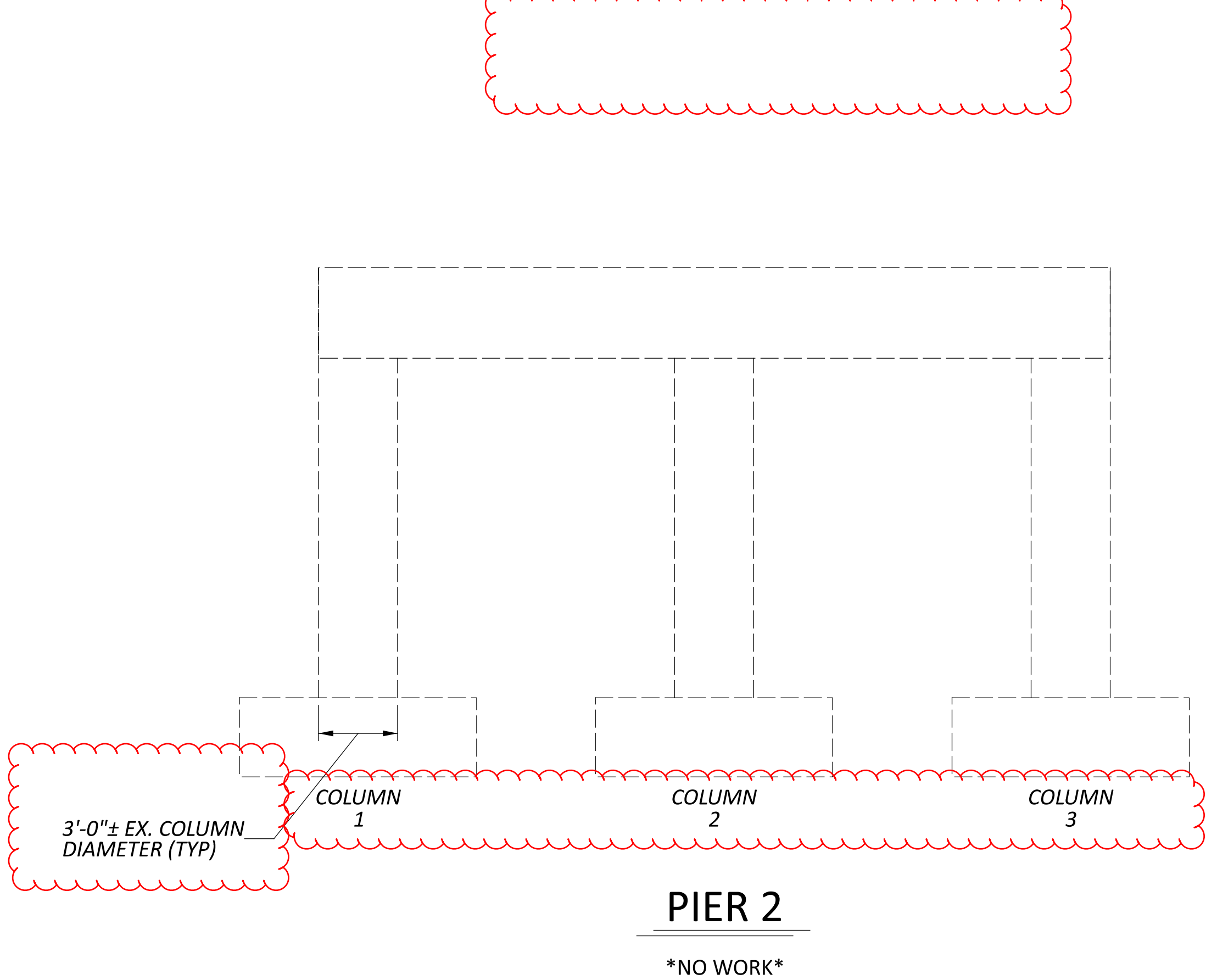
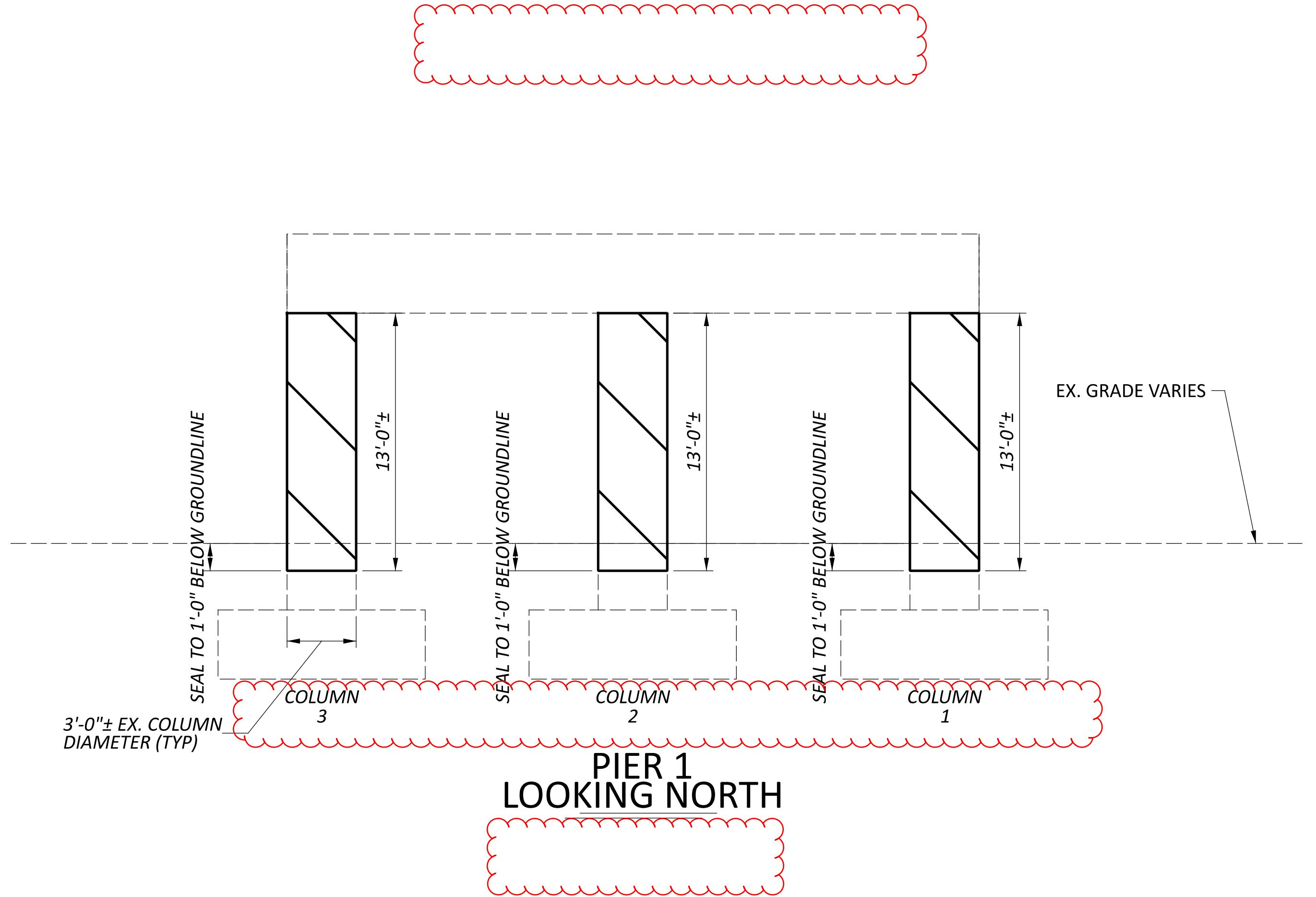
ALL QUANTITIES CARRIED TO GENERAL SUMMARY

STRUCTURES SUBSUMMARY



Diagram showing the elevation view of the wall and columns. The wall is 13'-6¹⁵/₁₆" ± high. The columns are 13'-6¹⁵/₁₆" ± high. The ground line is indicated by a dashed line. The wall is to be encased and sealed from the top of the column to 1'-0" below the ground line. The ground line varies, as indicated by the text "EX. GRADE VARIES".

PIER ELEVATION TYPICAL

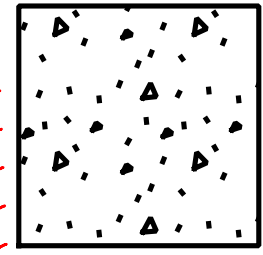


STRUCTURE SUBSUMMARY

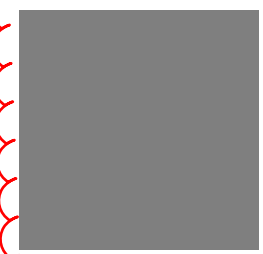
ITEM	QUANTITY	UNIT	DESCRIPTION
203E10000	3	CY	EXCAVATION
203E20000	3	CY	EMBANKMENT
509E25000	202	LB	UNCOATED STEEL REINFORCEMENT (6x6-W4.0XW4.0, WELDED WIRE FABRIC)
511E53010	6	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
512E10100	99	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512E74000	61	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES

ALL QUANTITIES CARRIED TO STRUCTURE SUBSUMMARY

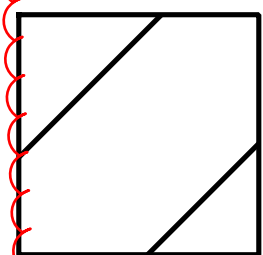
LEGEND



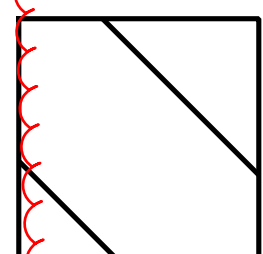
- COLUMN PATCHING
- ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
- ITEM 519 - PATCHING CONCRETE STRUCTURE
- ITEM 844 - GALVANIC ANODE PROTECTION



- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN



- COLUMN ENCASEMENT
- ITEM 203 - EXCAVATION
- ITEM 203 - EMBANKMENT
- ITEM 509 - UNCOATED STEEL REINFORCEMENT (W4XW4, 6"X6", WELDED WIRE FABRIC)
- ITEM 511 - CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
- ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)



- COLUMN SEALING
- ITEM 203 - EXCAVATION
- ITEM 203 - EMBANKMENT
- ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
- ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

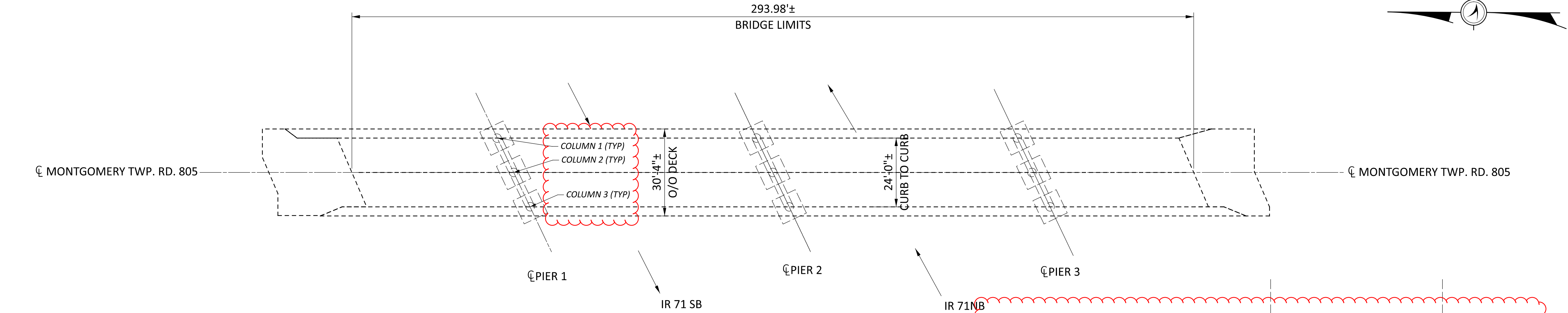
NOTES:

- EXCAVATION AND EMBANKMENT QUANTITIES ASSUME AN EXCAVATION 1' DEEP AND 1' WIDE FROM THE EXISTING FACE OF THE COLUMN.

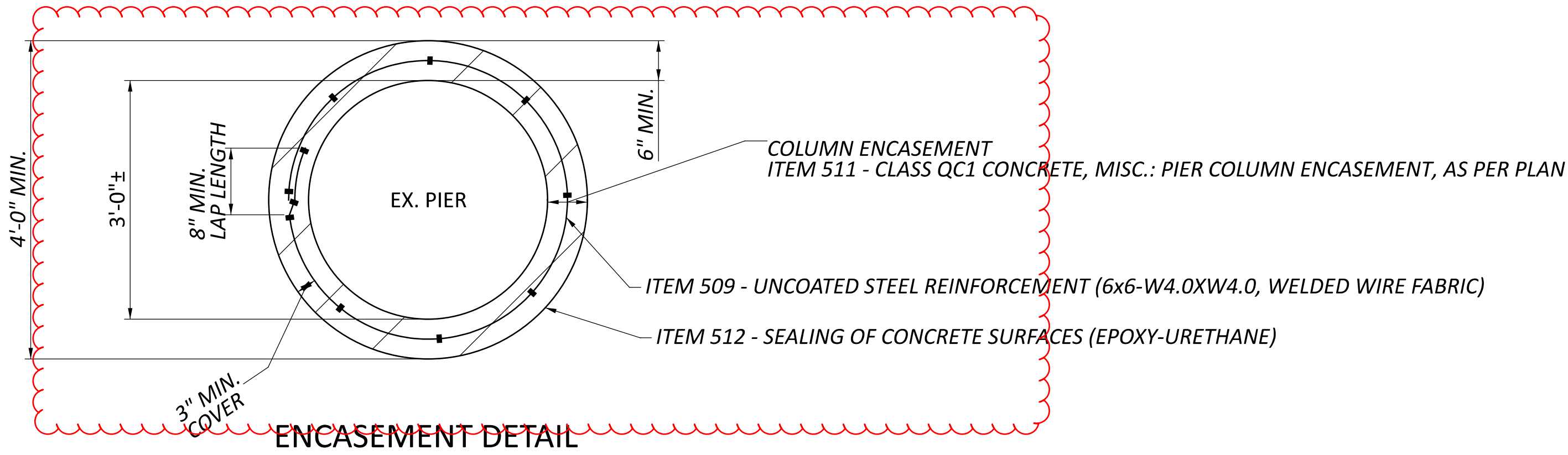
- WELDED WIRE FABRIC REINFORCEMENT QUANTITIES ARE CALCULATED ASSUMING ON THREE ROWS OF 5' WIDE WIRE FABRIC, WITH MINIMUM 8" OVERLAP AT THE ENDS AND INSIDE EDGES.

STRUCTURE REPAIR
ASD-IR-71-0416
UNDER COUNTY ROAD 995

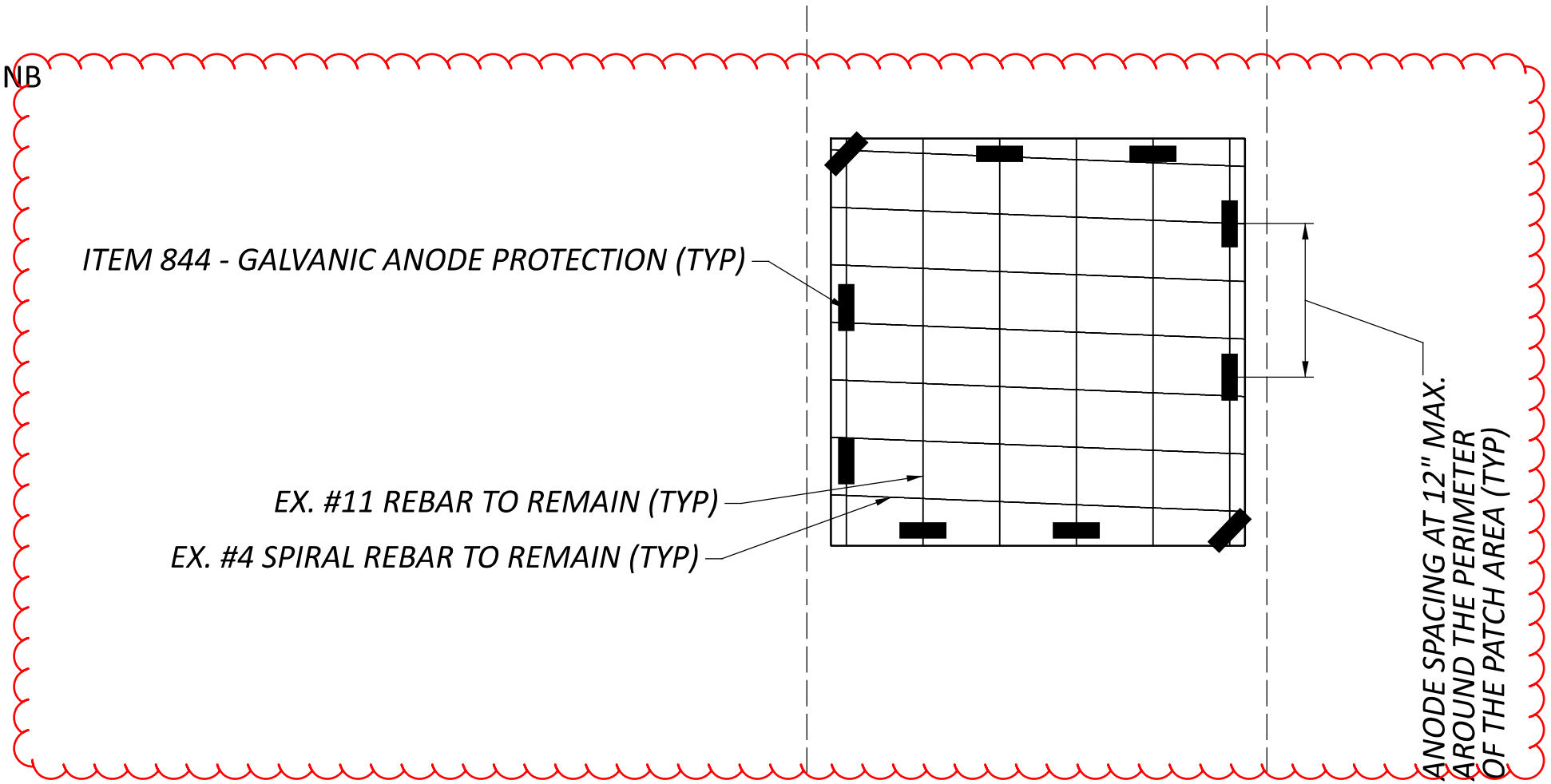
DESIGN AGENCY	0302465
DISTRICT	3
ENGINEERING TEAM ONE	
DESIGNER	ERC
CHECKER	KAK
REVIEWER	ACM
PROJECT ID	112294
SUBSET	2
TOTAL	2
SHEET	P.11
TOTAL	23



PLAN VIEW

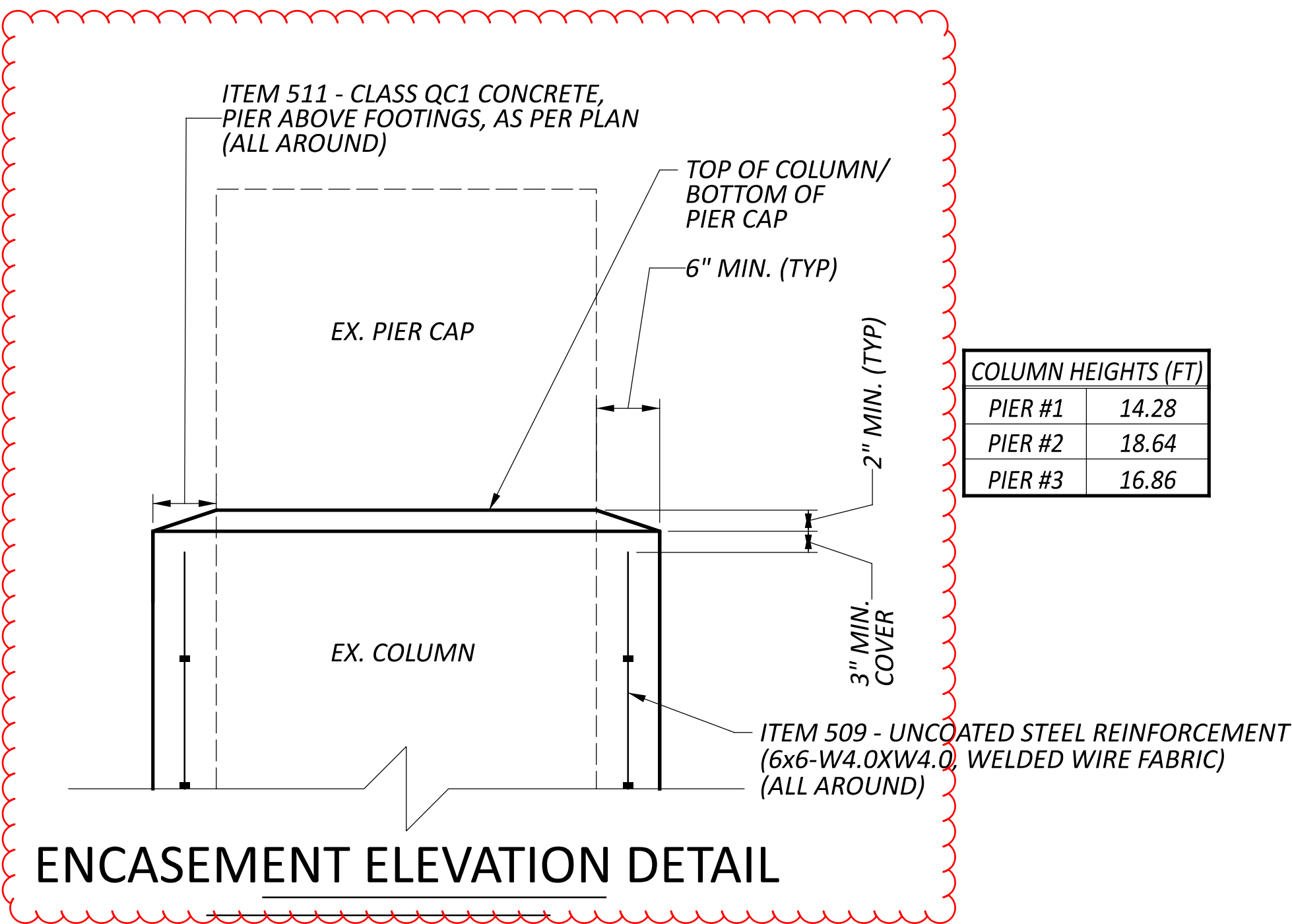


ENCASEMENT DETAIL



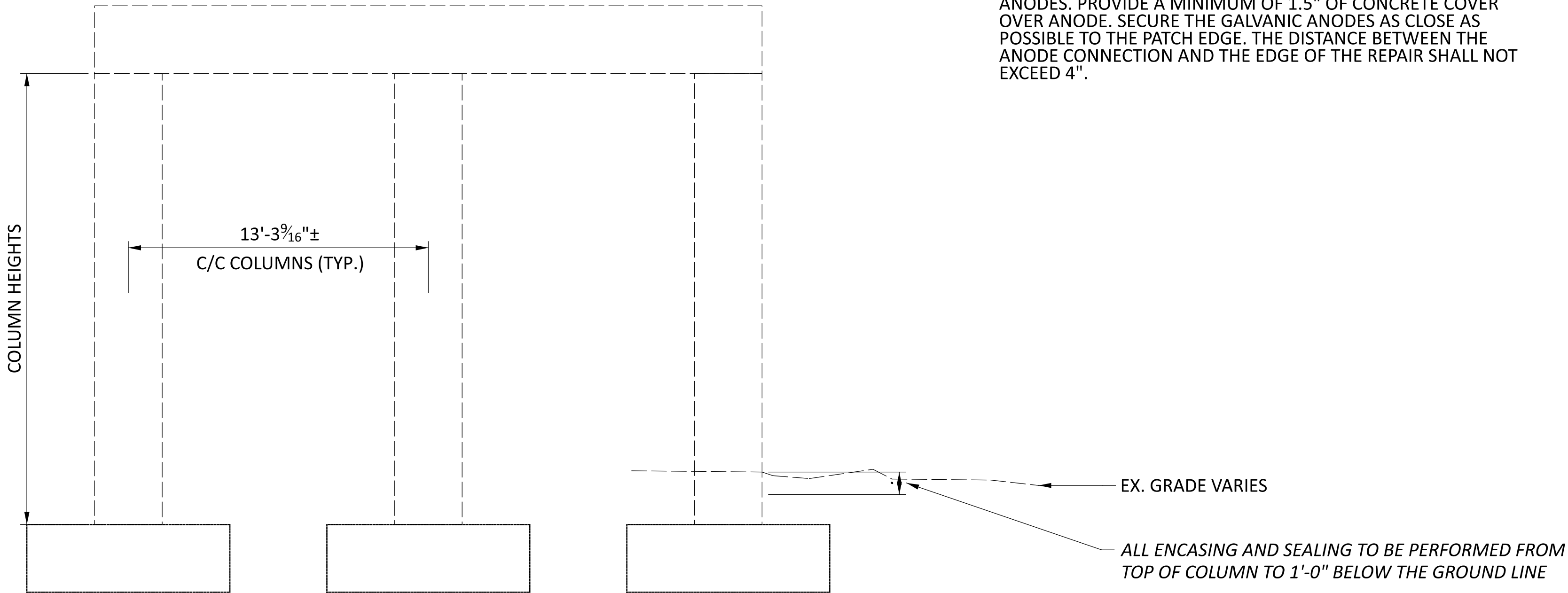
TYPICAL GALVANIC ANODE PROTECTION DETAIL

INSTALL GALVANIC ANODES TO EXISTING REINFORCEMENT ALONG THE PERIMETER OF THE PATCH AREA AT 12" SPACING INTERVALS. PROVIDE A 1" CLEARANCE BETWEEN ANODES AND SUBSTRATE TO ALLOW REPAIR MATERIAL TO ENCASE ANODE. IF NECESSARY, INCREASE THE SIZE OF THE REPAIR CAVITY TO ACCOMMODATE THE ANODES. PROVIDE A MINIMUM OF 1.5" OF CONCRETE COVER OVER ANODE. SECURE THE GALVANIC ANODES AS CLOSE AS POSSIBLE TO THE PATCH EDGE. THE DISTANCE BETWEEN THE ANODE CONNECTION AND THE EDGE OF THE REPAIR SHALL NOT EXCEED 4".

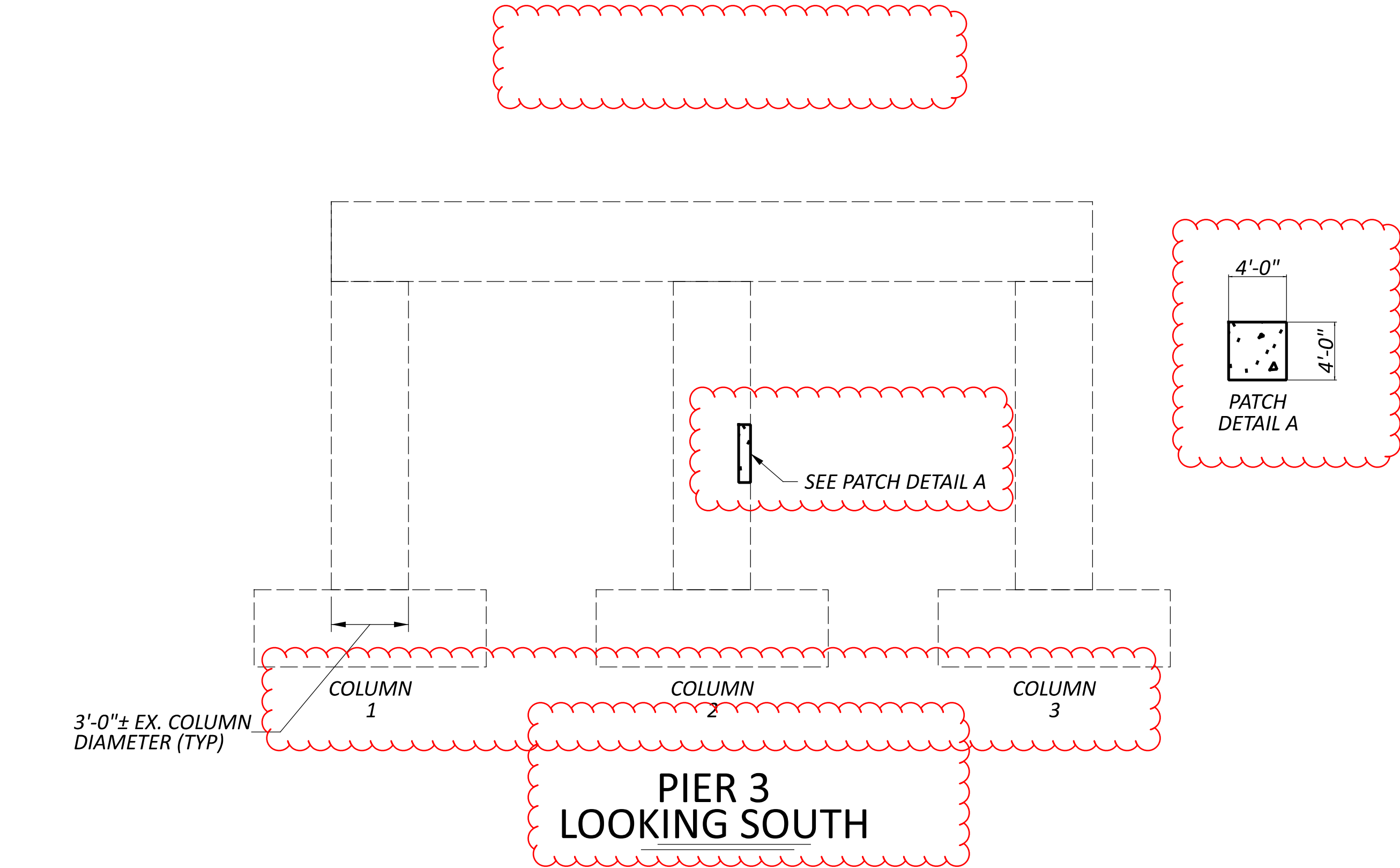
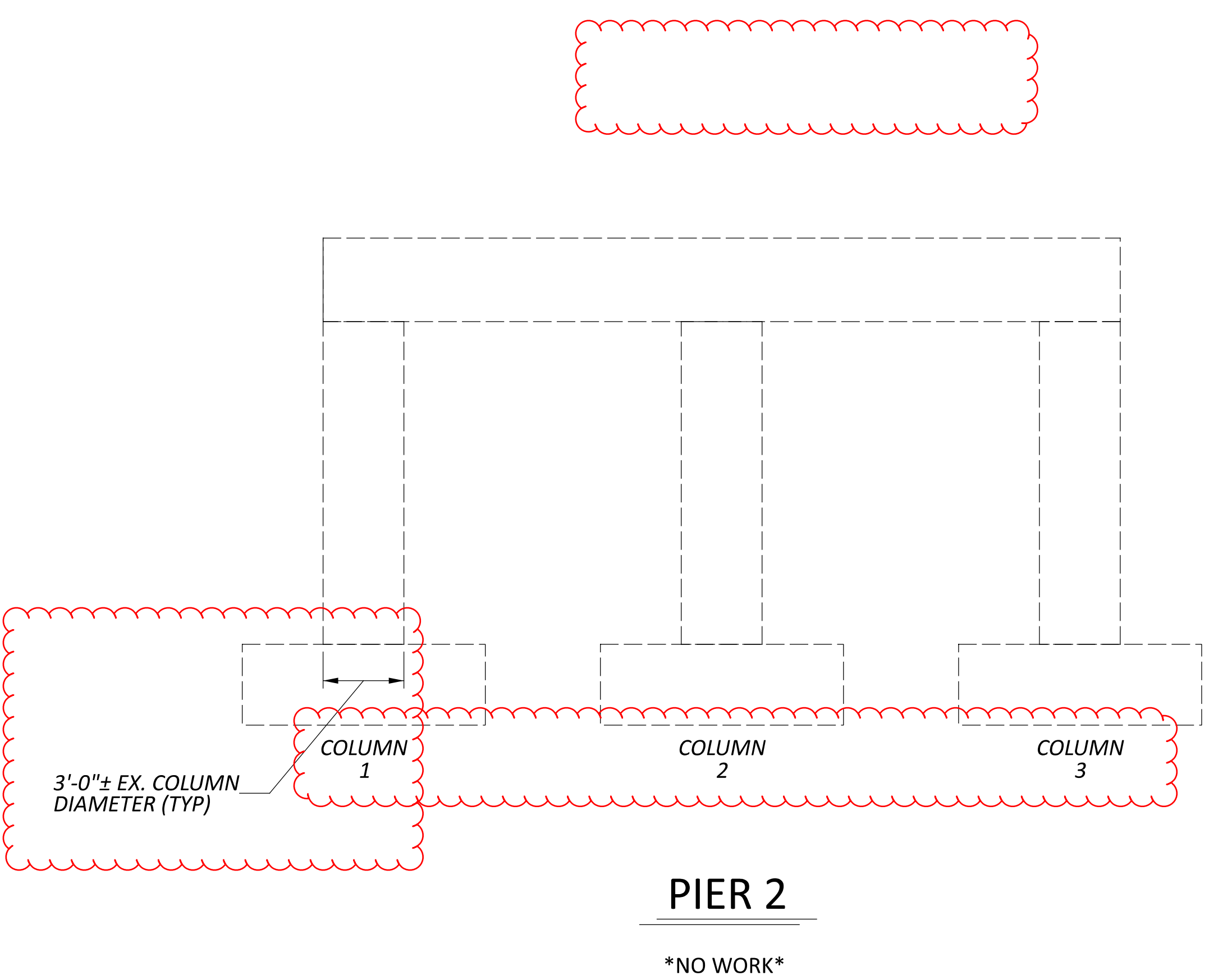
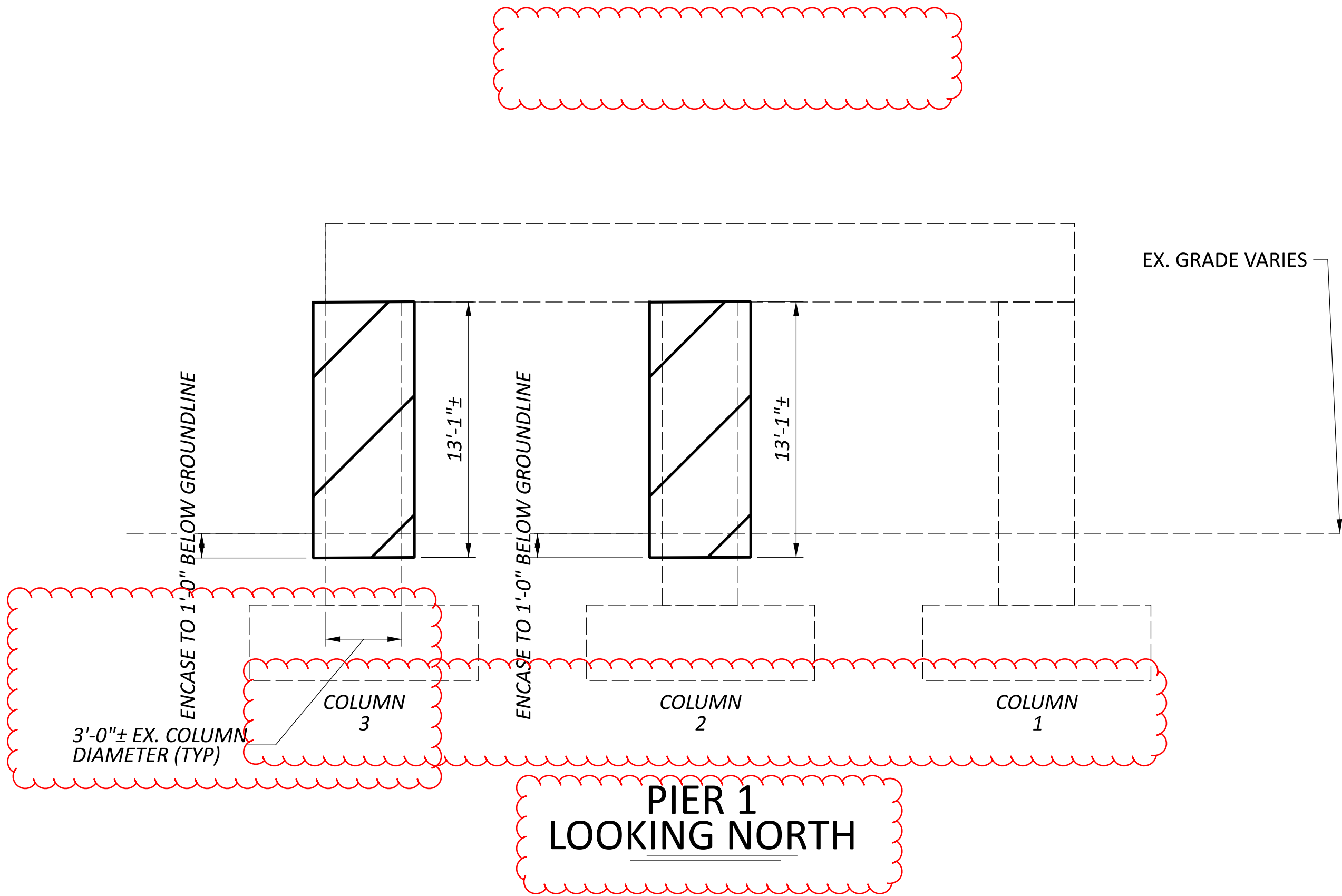


ENCASEMENT ELEVATION DETAIL

COLUMN HEIGHTS (FT)	
PIER #1	14.28
PIER #2	18.64
PIER #3	16.86



PIER ELEVATION TYPICAL

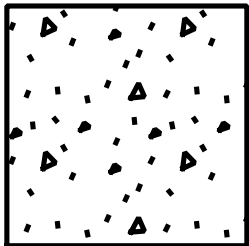


STRUCTURE SUBSUMMARY

ITEM	QUANTITY	UNIT	DESCRIPTION
203E10000	1	CY	EXCAVATION
203E20000	1	CY	EMBANKMENT
509E25000	196	LB	UNCOATED STEEL REINFORCEMENT (6x6-W4.0XW4.0, WELDED WIRE FABRIC)
511E53010	6	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
512E10100	41	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
519E11100	16	SF	PATCHING CONCRETE STRUCTURE
844E20000	16	EA	GALVANIC ANODE PROTECTION

ALL QUANTITIES CARRIED TO STRUCTURE SUBSUMMARY

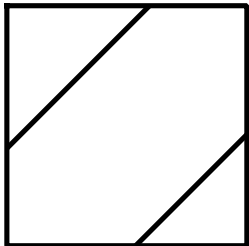
LEGEND



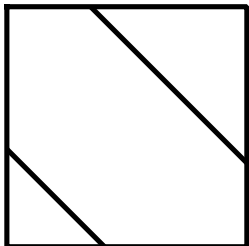
- COLUMN PATCHING
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
ITEM 519 - PATCHING CONCRETE STRUCTURE
ITEM 844 - GALVANIC ANODE PROTECTION



- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

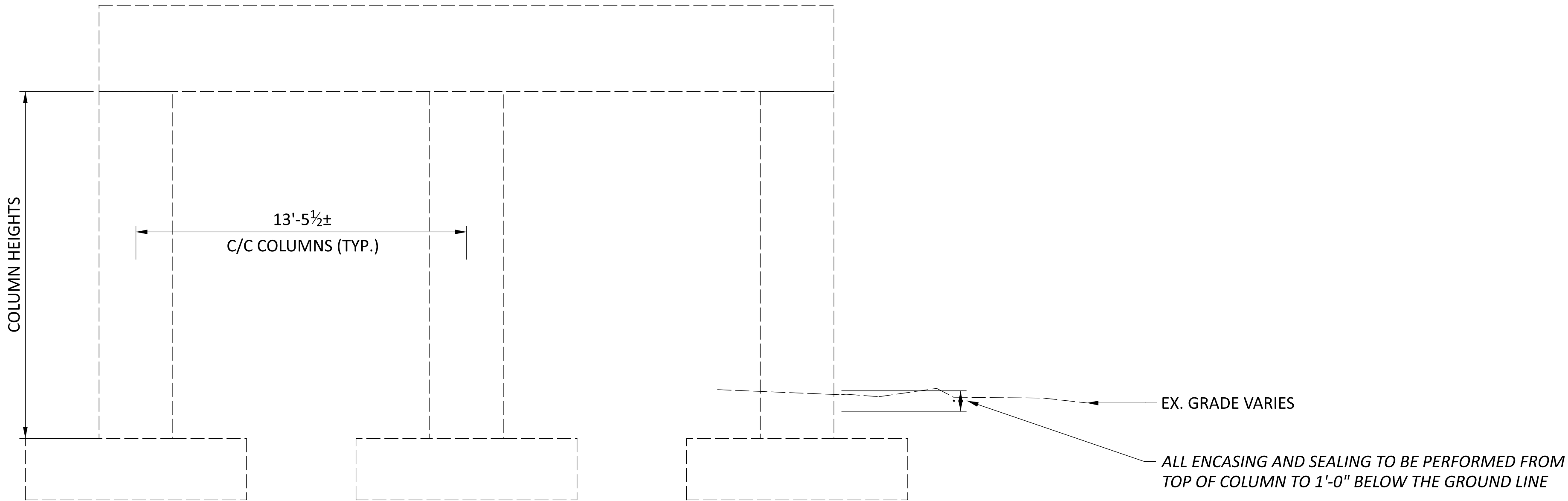
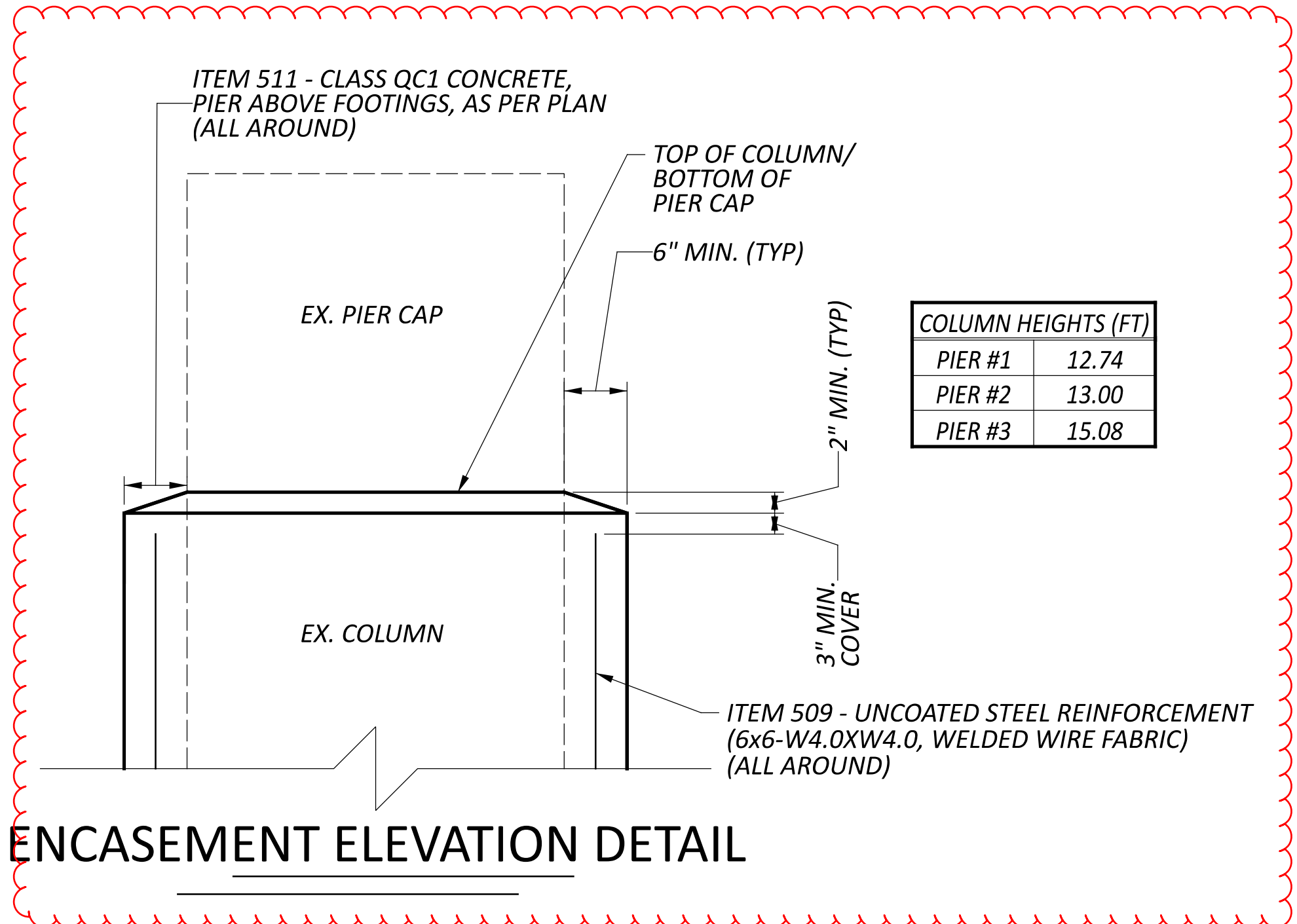
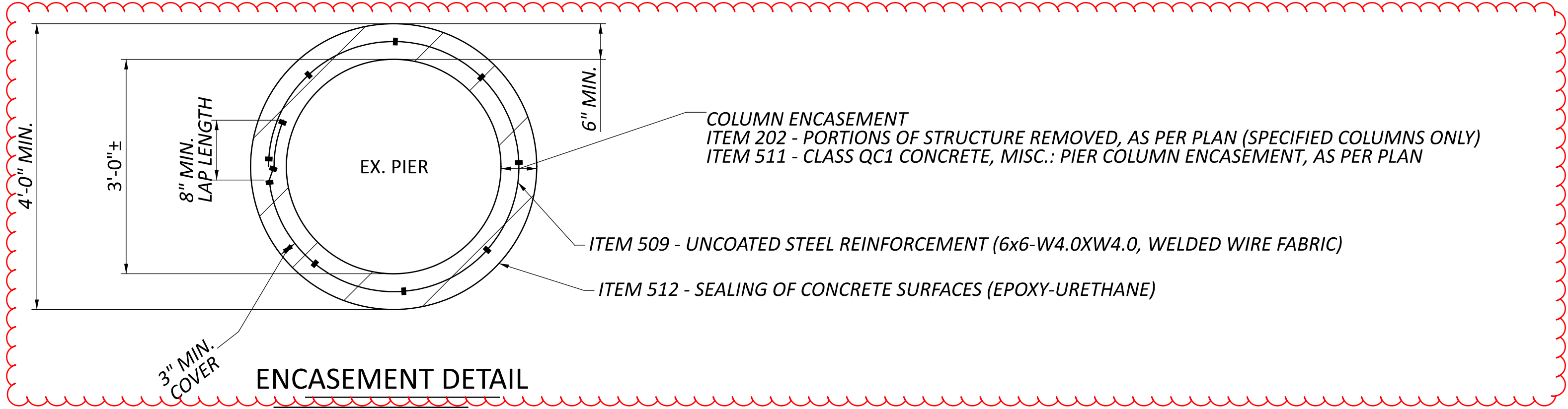
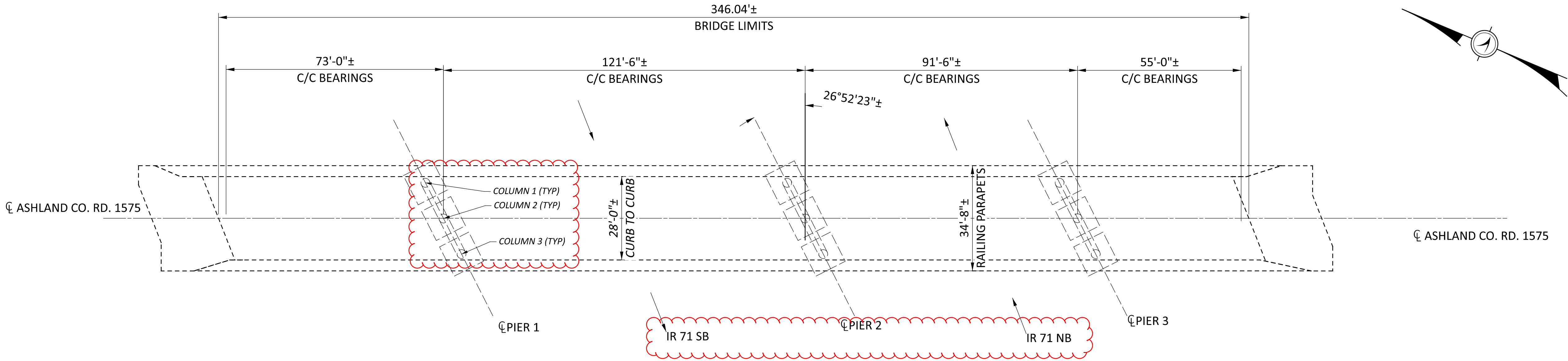


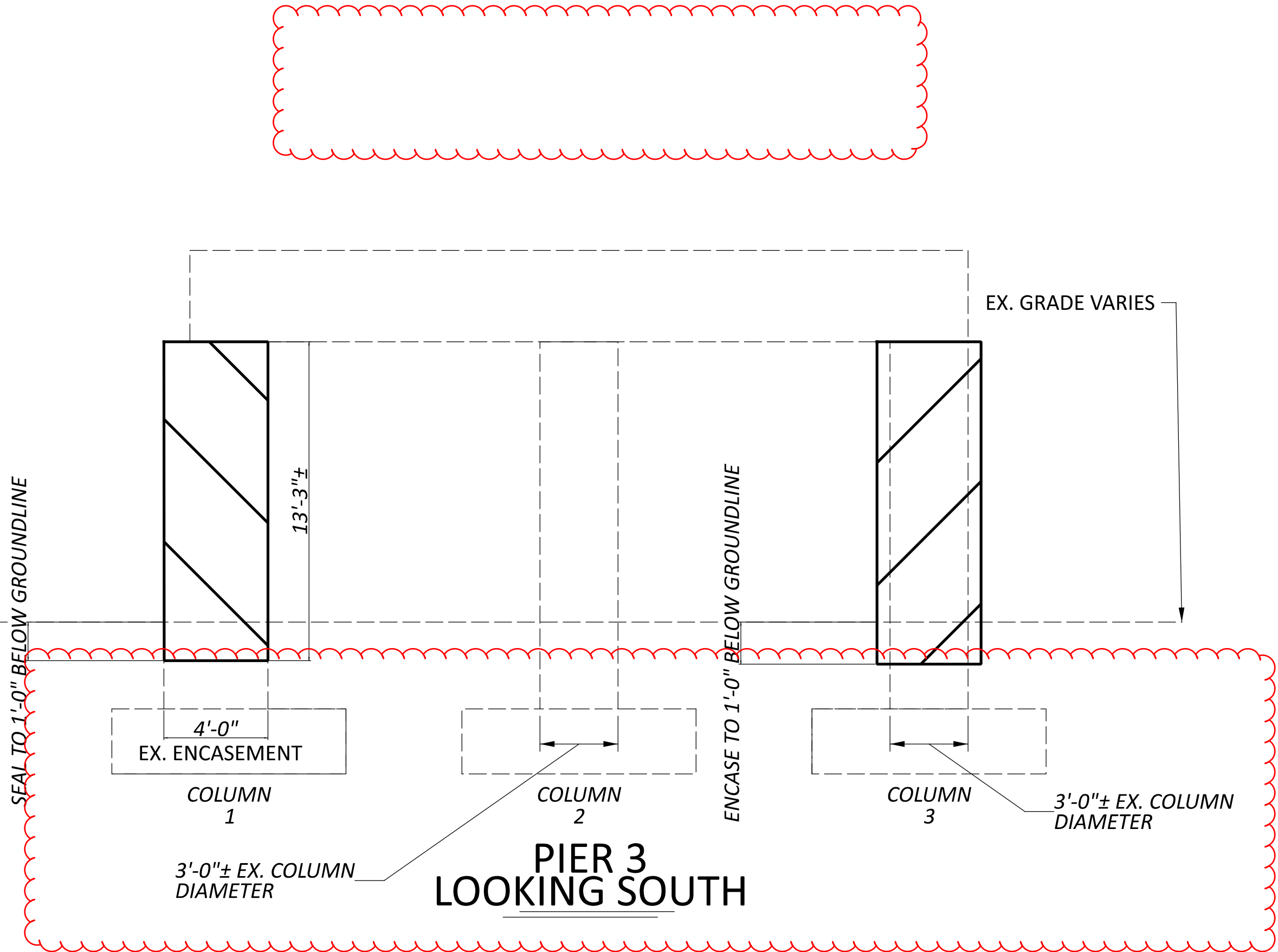
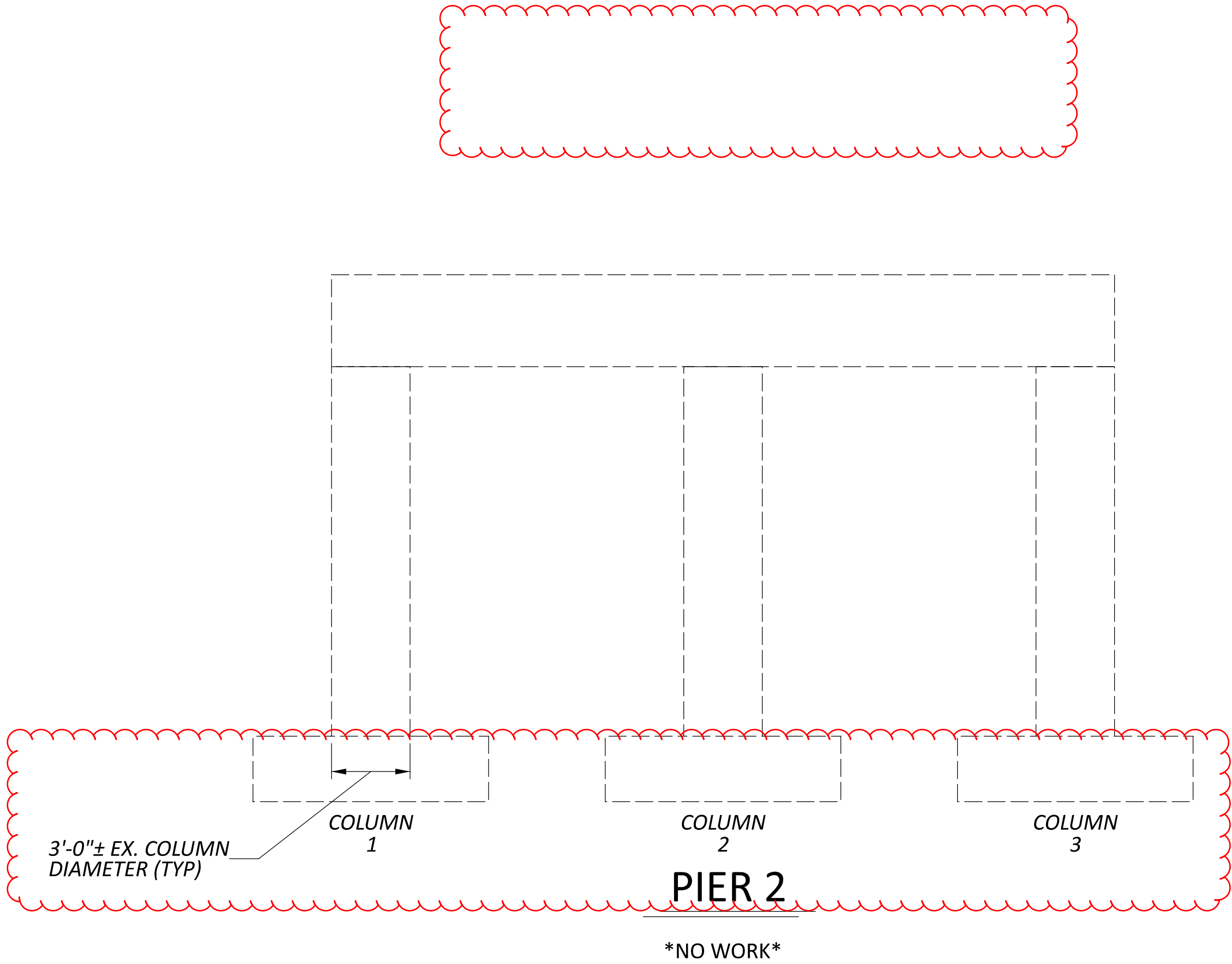
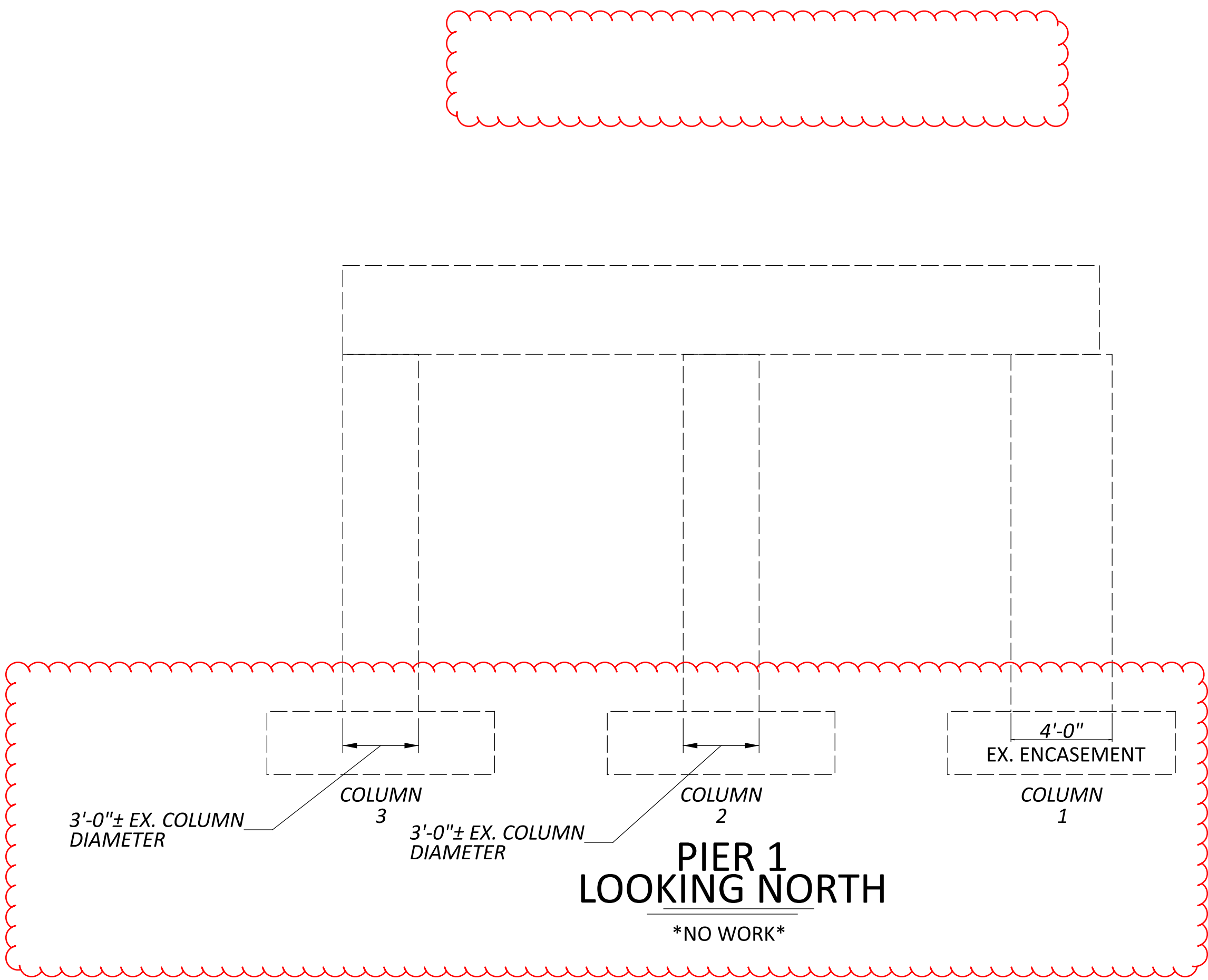
- COLUMN ENCASEMENT
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 509 - UNCOATED STEEL REINFORCEMENT (W4XW4, 6"X6", WELDED WIRE FABRIC)
ITEM 511 - CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)



- COLUMN SEALING
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

NOTES:
- EXCAVATION AND EMBANKMENT QUANTITIES ASSUME AN EXCAVATION 1' DEEP AND 1' WIDE FROM THE EXISTING FACE OF THE COLUMN.
- WELDED WIRE FABRIC REINFORCEMENT QUANTITIES ARE CALCULATED ASSUMING ON THREE ROWS OF 5' WIDE WIRE FABRIC, WITH MINIMUM 8" OVERLAP AT THE ENDS AND INSIDE EDGES.



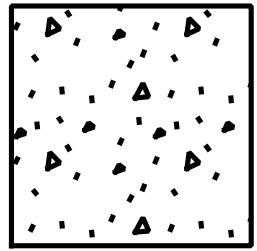


STRUCTURE SUBSUMMARY

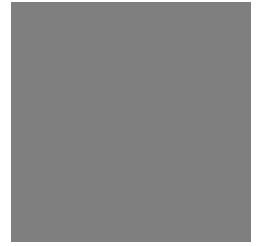
ITEM	QUANTITY	UNIT	DESCRIPTION
203E10000	1	CY	EXCAVATION
203E20000	1	CY	EMBANKMENT
509E25000	99	LB	UNCOATED STEEL REINFORCEMENT (6x6-W4.0XW4.0, WELDED WIRE FABRIC)
511E53010	3	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
512E10100	38	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512E74000	19	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES

ALL QUANTITIES CARRIED TO STRUCTURE SUBSUMMARY

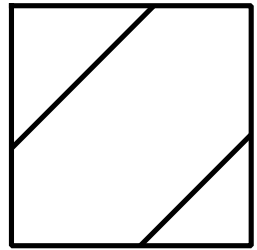
LEGEND



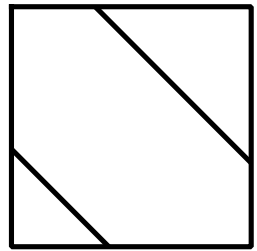
- COLUMN PATCHING
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
ITEM 519 - PATCHING CONCRETE STRUCTURE
ITEM 844 - GALVANIC ANODE PROTECTION



- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN



- COLUMN ENCASEMENT
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 509 - UNCOATED STEEL REINFORCEMENT (W4XW4, 6"X6", WELDED WIRE FABRIC)
ITEM 511 - CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

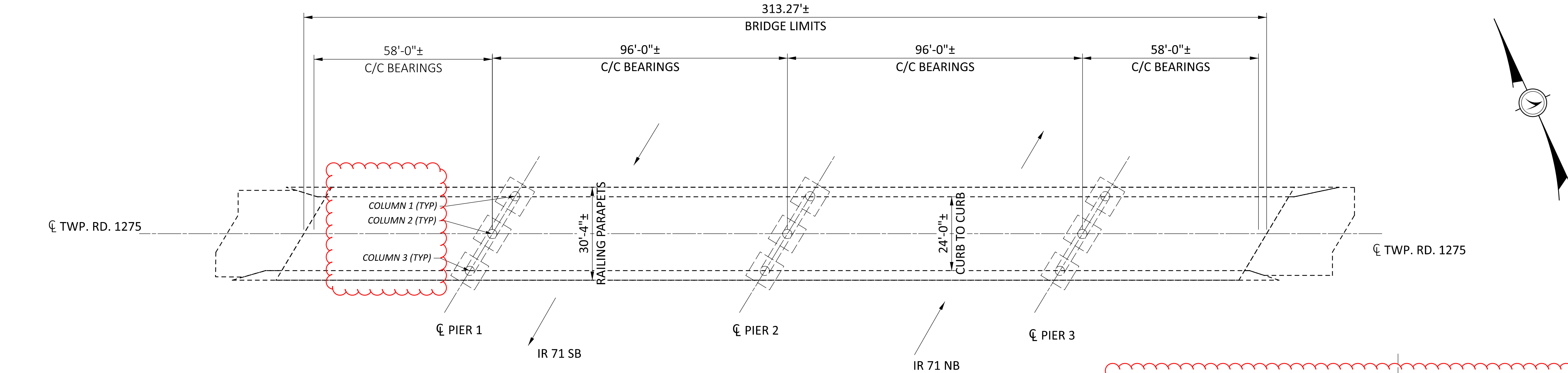


- COLUMN SEALING
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

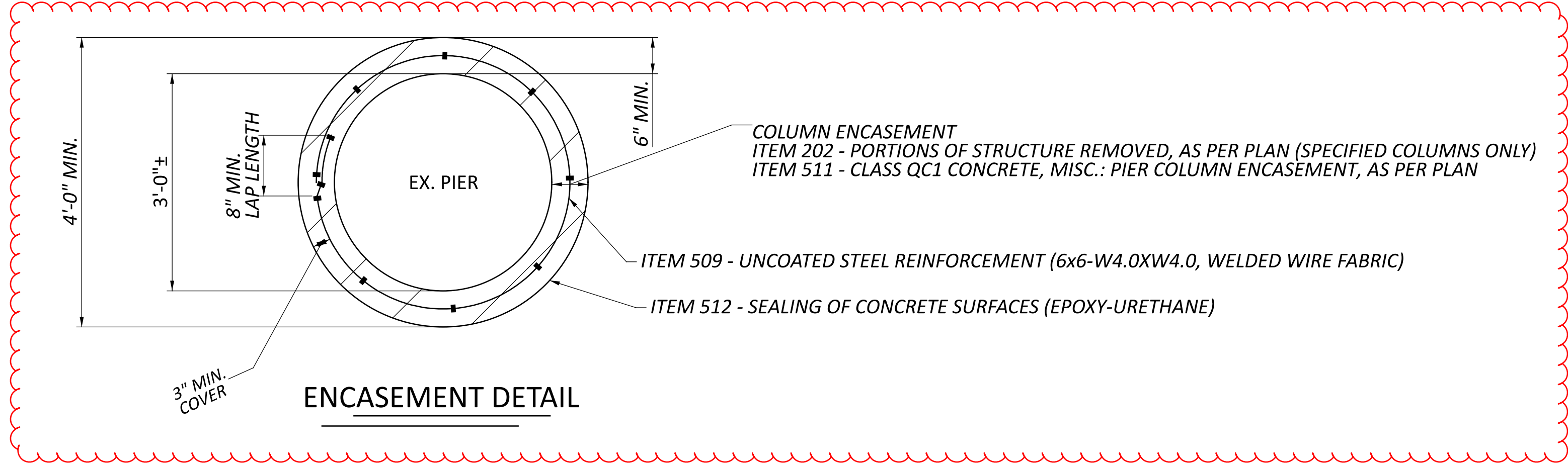
NOTES:

- EXCAVATION AND EMBANKMENT QUANTITIES ASSUME AN EXCAVATION 1' DEEP AND 1' WIDE FROM THE EXISTING FACE OF THE COLUMN.

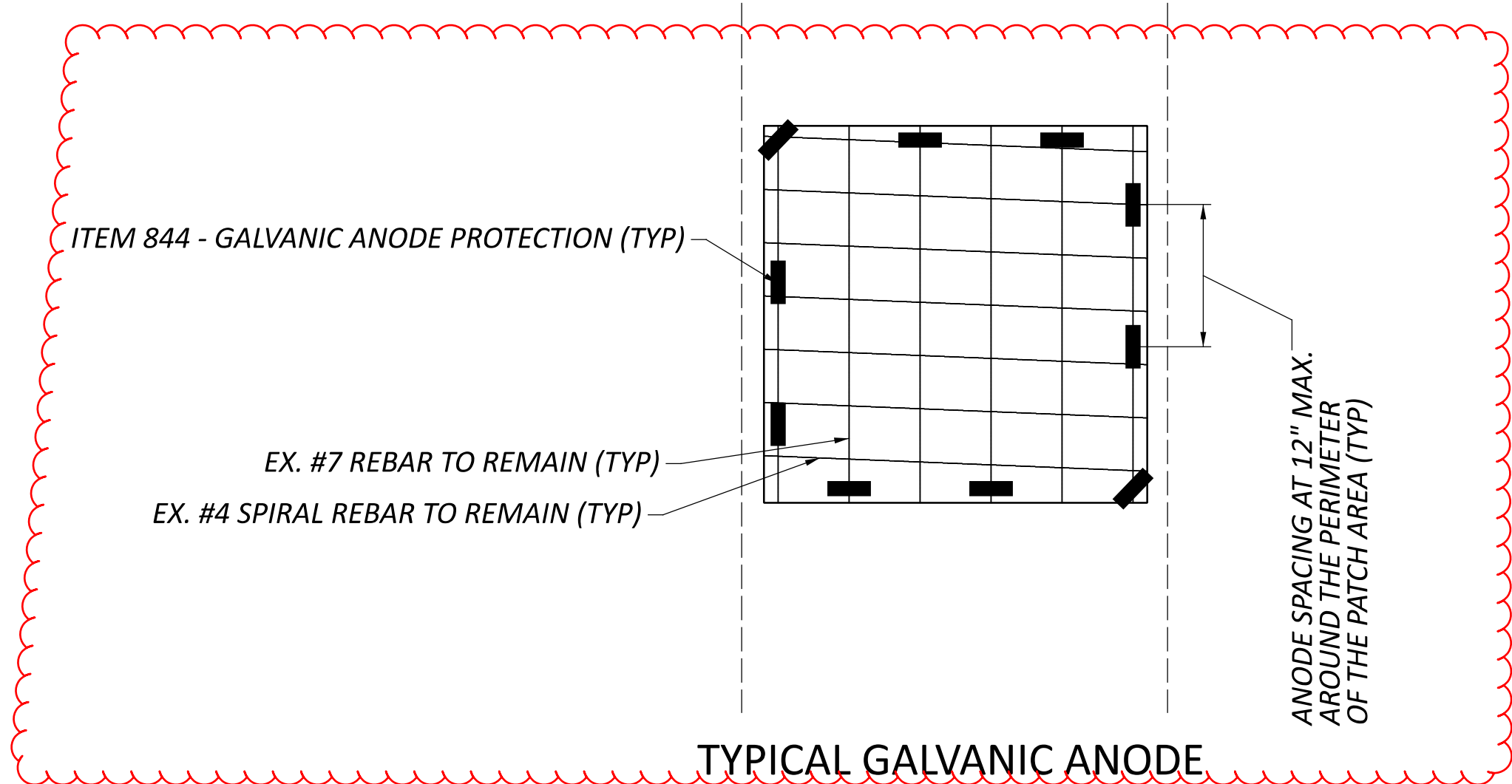
- WELDED WIRE FABRIC REINFORCEMENT QUANTITIES ARE CALCULATED ASSUMING ON THREE ROWS OF 5' WIDE WIRE FABRIC, WITH MINIMUM 8" OVERLAP AT THE ENDS AND INSIDE EDGES.



PLAN VIEW

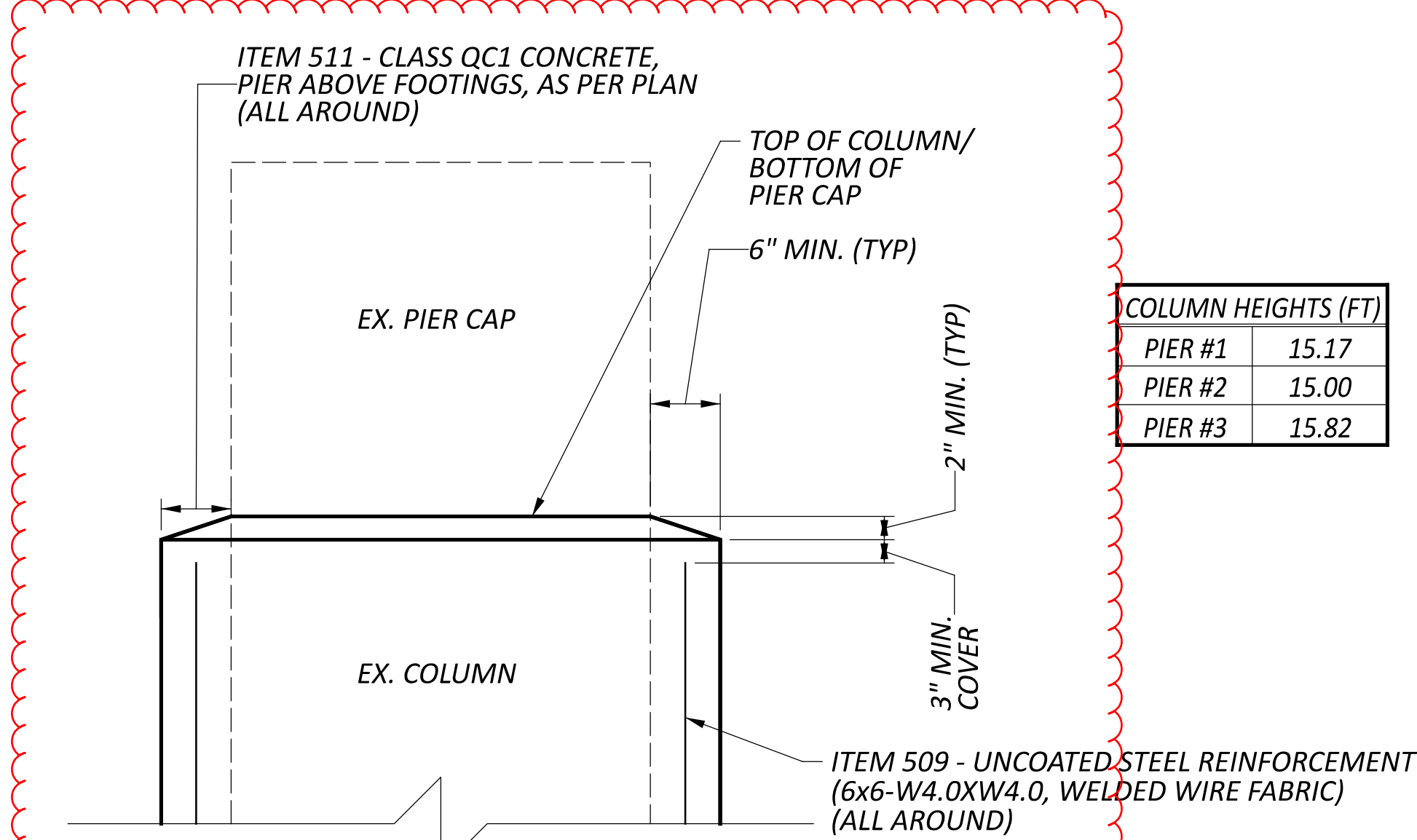


ENCASEMENT DETAIL

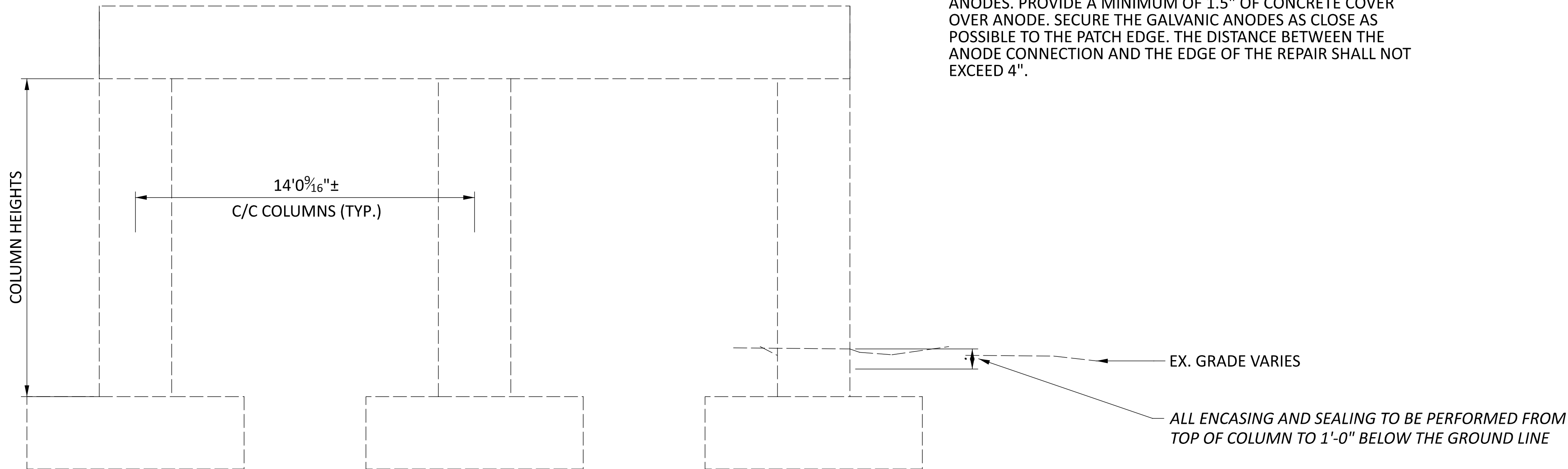


TYPICAL GALVANIC ANODE PROTECTION DETAIL

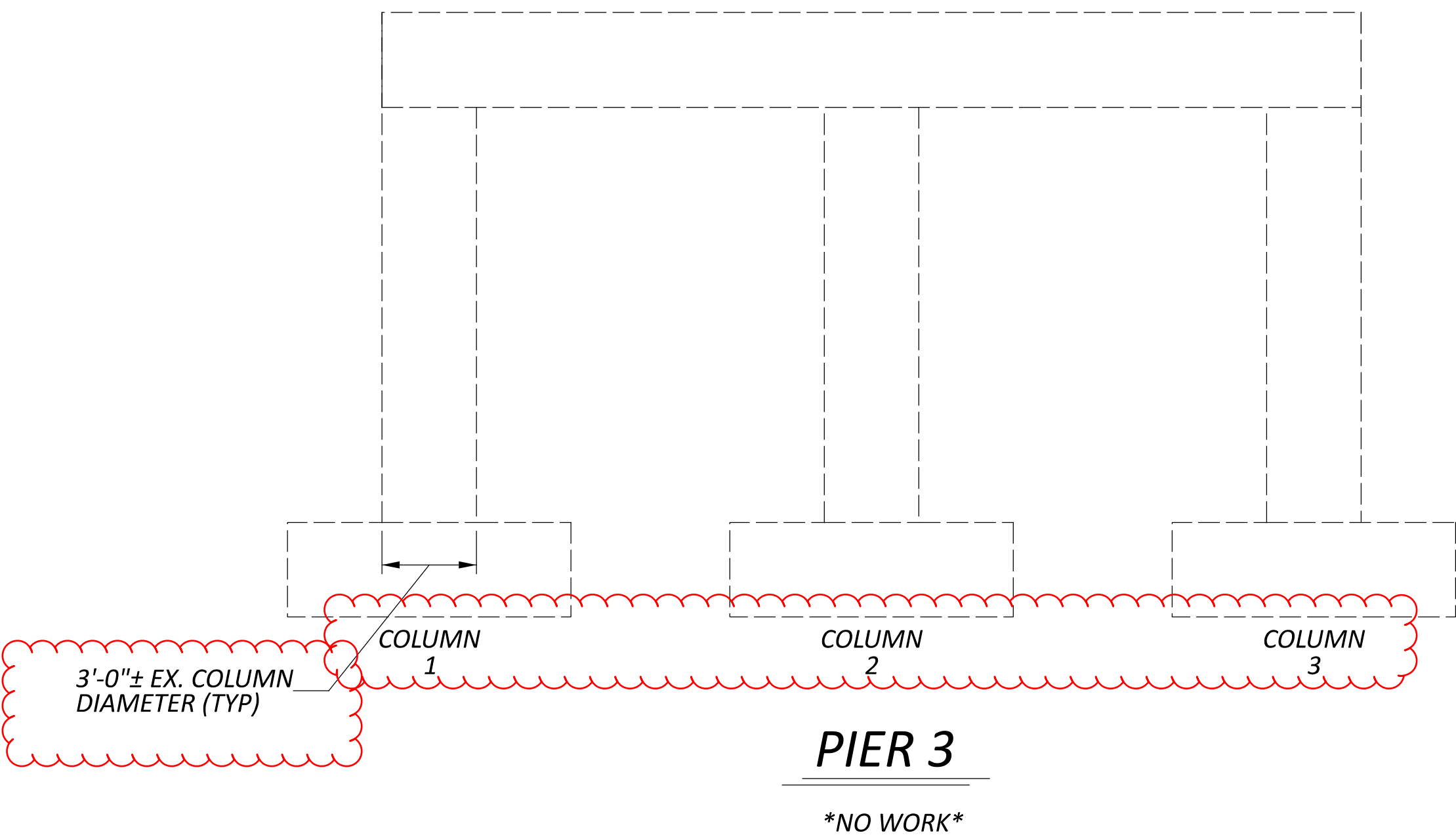
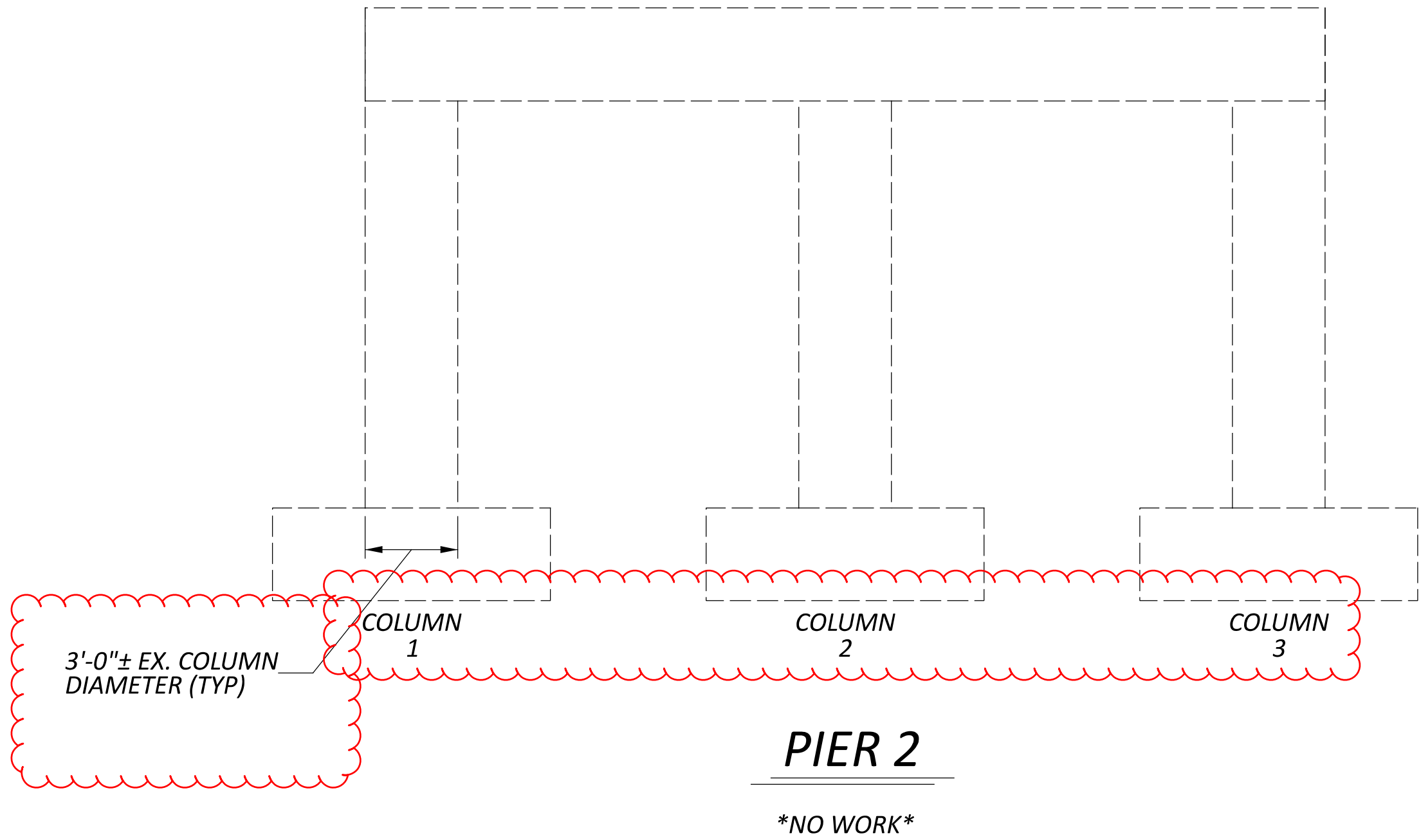
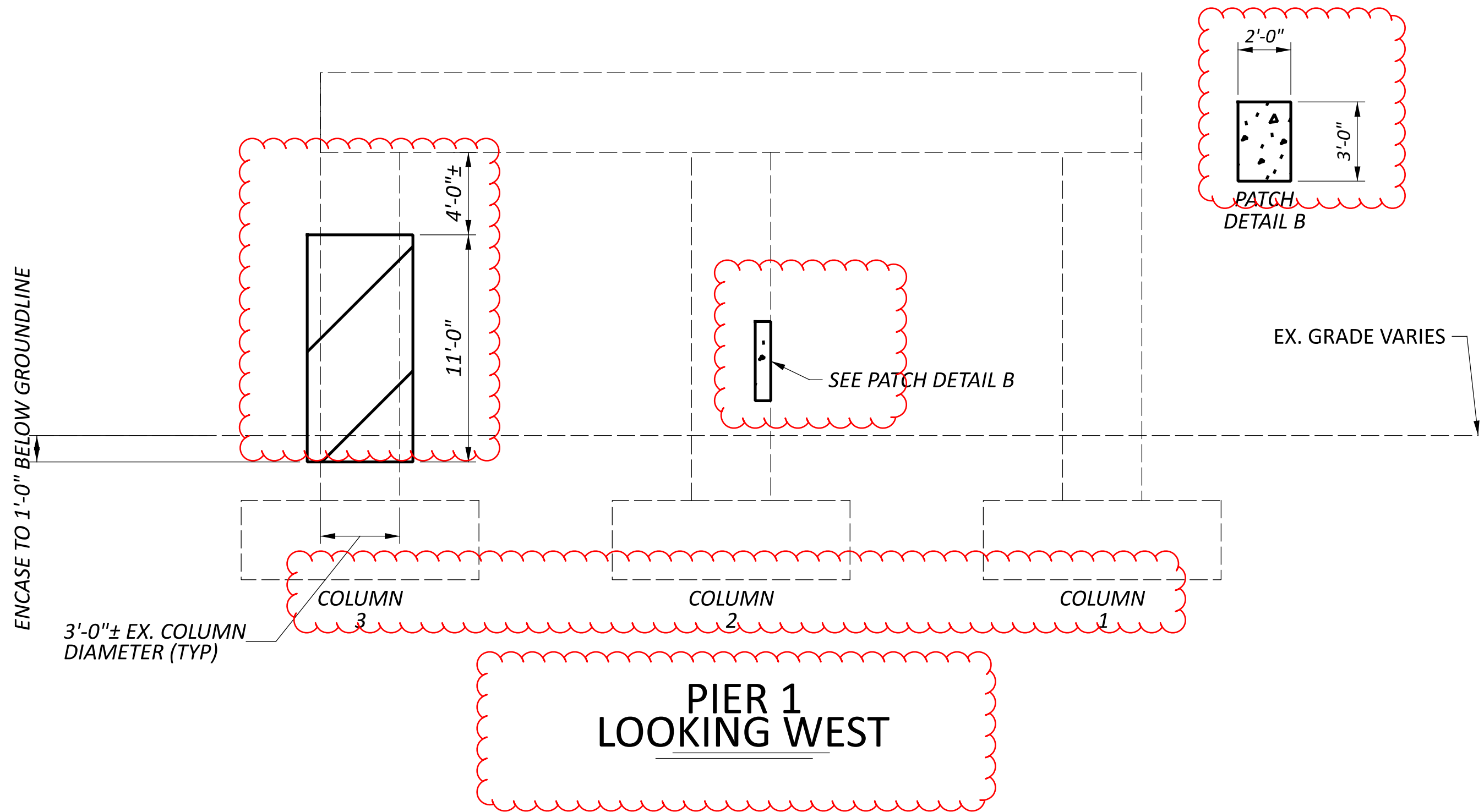
INSTALL GALVANIC ANODES TO EXISTING REINFORCEMENT ALONG THE PERIMETER OF THE PATCH AREA AT 12" SPACING INTERVALS. PROVIDE A 1" CLEARANCE BETWEEN ANODES AND SUBSTRATE TO ALLOW REPAIR MATERIAL TO ENCASE ANODE. IF NECESSARY, INCREASE THE SIZE OF THE REPAIR CAVITY TO ACCOMMODATE THE ANODES. PROVIDE A MINIMUM OF 1.5" OF CONCRETE COVER OVER ANODE. SECURE THE GALVANIC ANODES AS CLOSE AS POSSIBLE TO THE PATCH EDGE. THE DISTANCE BETWEEN THE ANODE CONNECTION AND THE EDGE OF THE REPAIR SHALL NOT EXCEED 4".



ENCASEMENT ELEVATION DETAIL



PIER ELEVATION TYPICAL

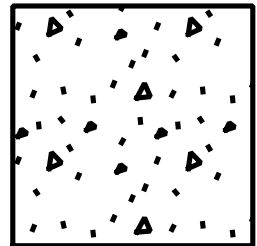


STRUCTURE SUBSUMMARY

ITEM	QUANTITY	UNIT	DESCRIPTION
203E10000	1	CY	EXCAVATION
203E20000	1	CY	EMBANKMENT
509E25000	84	LB	UNCOATED STEEL REINFORCEMENT (6x6-W4.0XW4.0, WELDED WIRE FABRIC)
511E53010	3	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
512E10100	18	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
519E11100	6	SF	PATCHING CONCRETE STRUCTURE
844E20000	10	EA	GALVANIC ANODE PROTECTION

ALL QUANTITIES CARRIED TO STRUCTURE SUBSUMMARY

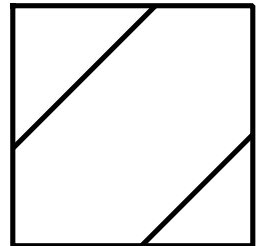
LEGEND



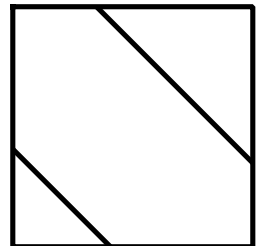
- COLUMN PATCHING
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
ITEM 519 - PATCHING CONCRETE STRUCTURE
ITEM 844 - GALVANIC ANODE PROTECTION



- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN



- COLUMN ENCASEMENT
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 509 - UNCOATED STEEL REINFORCEMENT (W4XW4, 6"X6", WELDED WIRE FABRIC)
ITEM 511 - CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

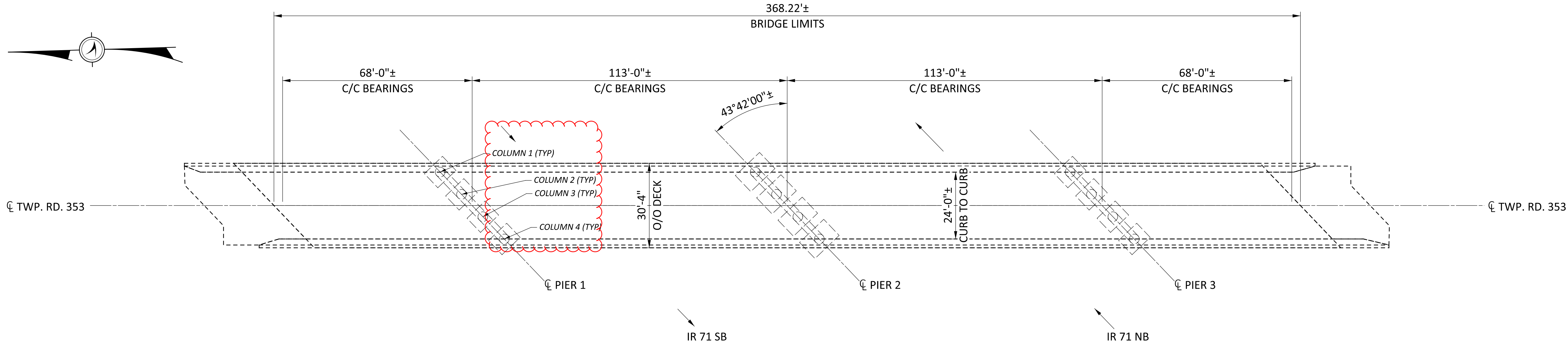


- COLUMN SEALING
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

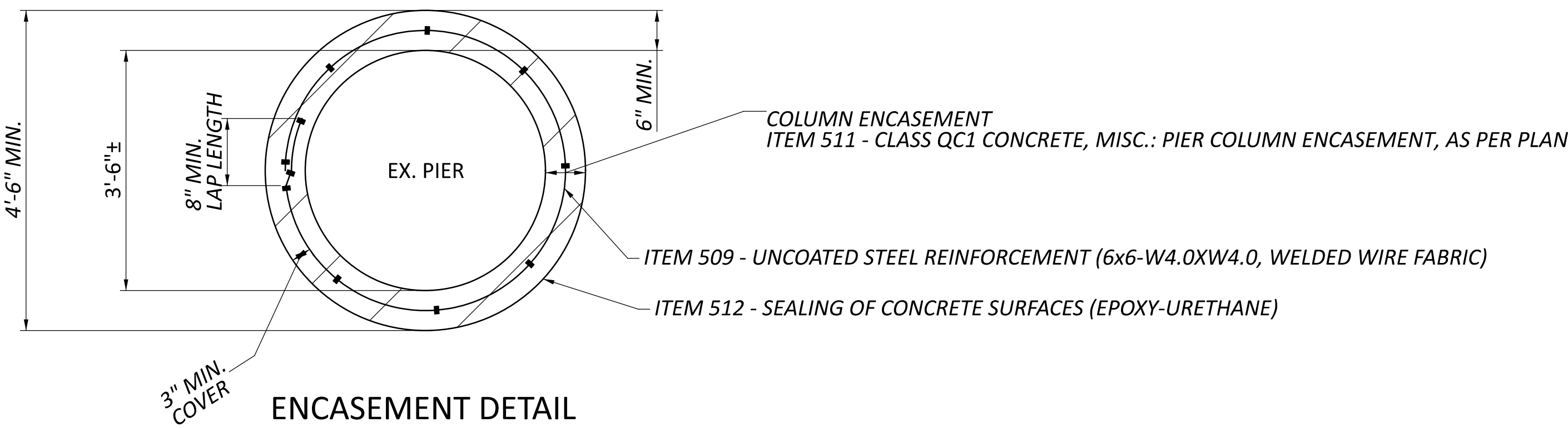
NOTES:

- EXCAVATION AND EMBANKMENT QUANTITIES ASSUME AN EXCAVATION 1' DEEP AND 1' WIDE FROM THE EXISTING FACE OF THE COLUMN.

- WELDED WIRE FABRIC REINFORCEMENT QUANTITIES ARE CALCULATED ASSUMING ON THREE ROWS OF 5' WIDE WIRE FABRIC, WITH MINIMUM 8" OVERLAP AT THE ENDS AND INSIDE EDGES.



PLAN VIEW



ENCASEMENT DETAIL

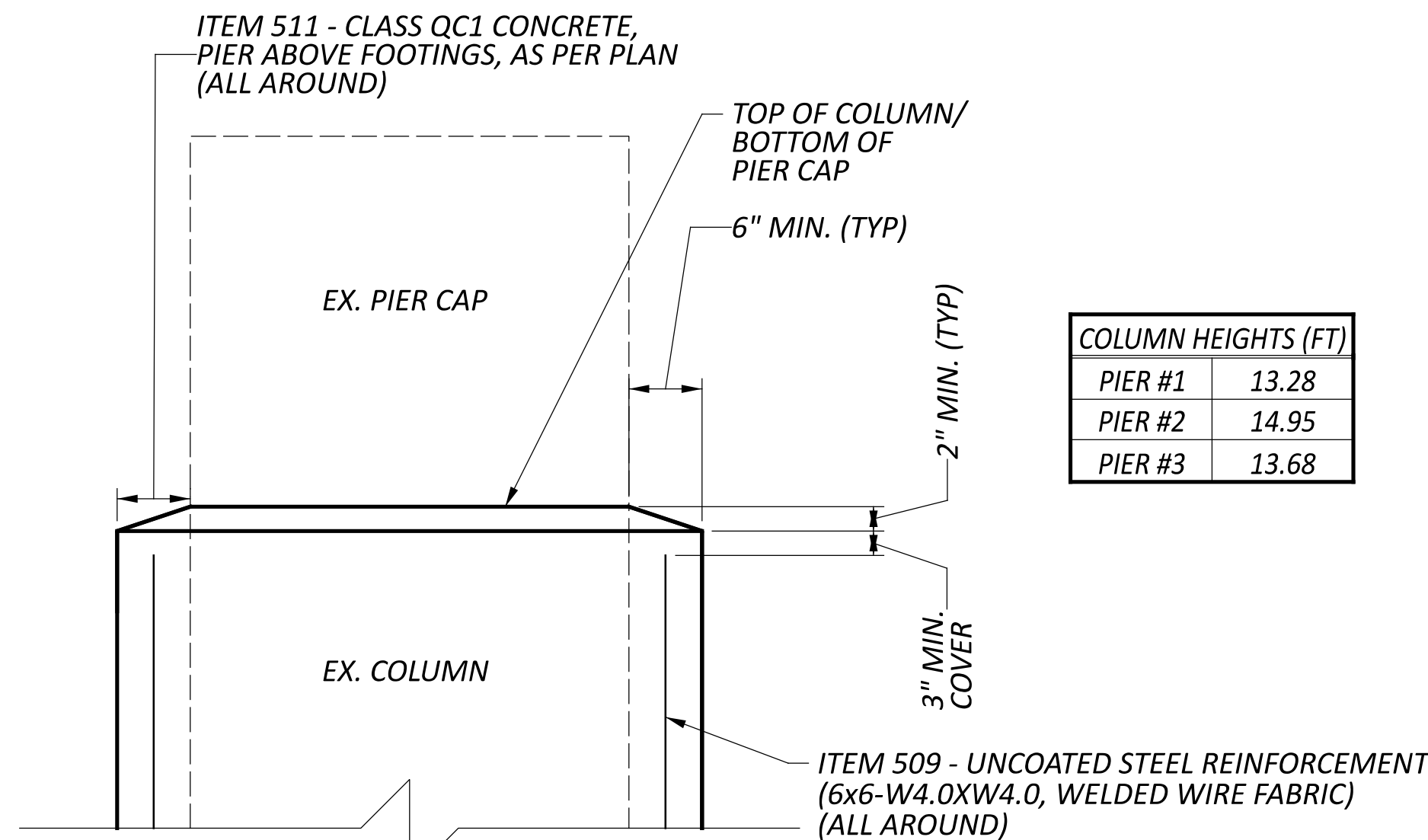
ITEM 844 - GALVANIC ANODE PROTECTION (TYP)

EX. #10 REBAR TO REMAIN (TYP)
EX. #4 SPIRAL REBAR TO REMAIN (TYP)

ANODE SPACING AT 12" MAX.
AROUND THE PERIMETER
OF THE PATCH AREA (TYP)

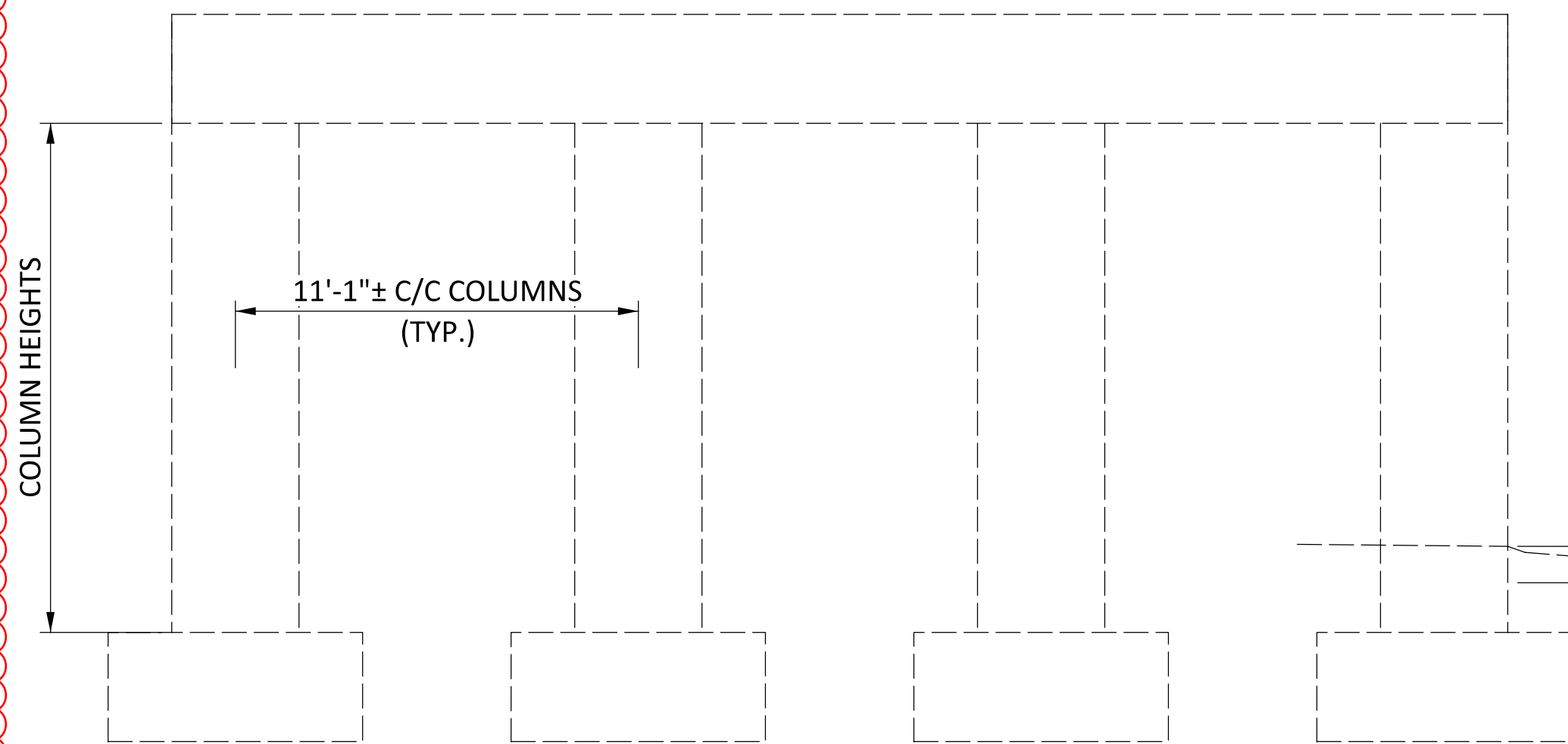
TYPICAL GALVANIC ANODE
PROTECTION DETAIL

INSTALL GALVANIC ANODES TO EXISTING REINFORCEMENT ALONG THE PERIMETER OF THE PATCH AREA AT 12" SPACING INTERVALS. PROVIDE A 1" CLEARANCE BETWEEN ANODES AND SUBSTRATE TO ALLOW REPAIR MATERIAL TO ENCASE ANODE. IF NECESSARY, INCREASE THE SIZE OF THE REPAIR CAVITY TO ACCOMMODATE THE ANODES. PROVIDE A MINIMUM OF 1.5" OF CONCRETE COVER OVER ANODE. SECURE THE GALVANIC ANODES AS CLOSE AS POSSIBLE TO THE PATCH EDGE. THE DISTANCE BETWEEN THE ANODE CONNECTION AND THE EDGE OF THE REPAIR SHALL NOT EXCEED 4".



ENCASEMENT ELEVATION DETAIL

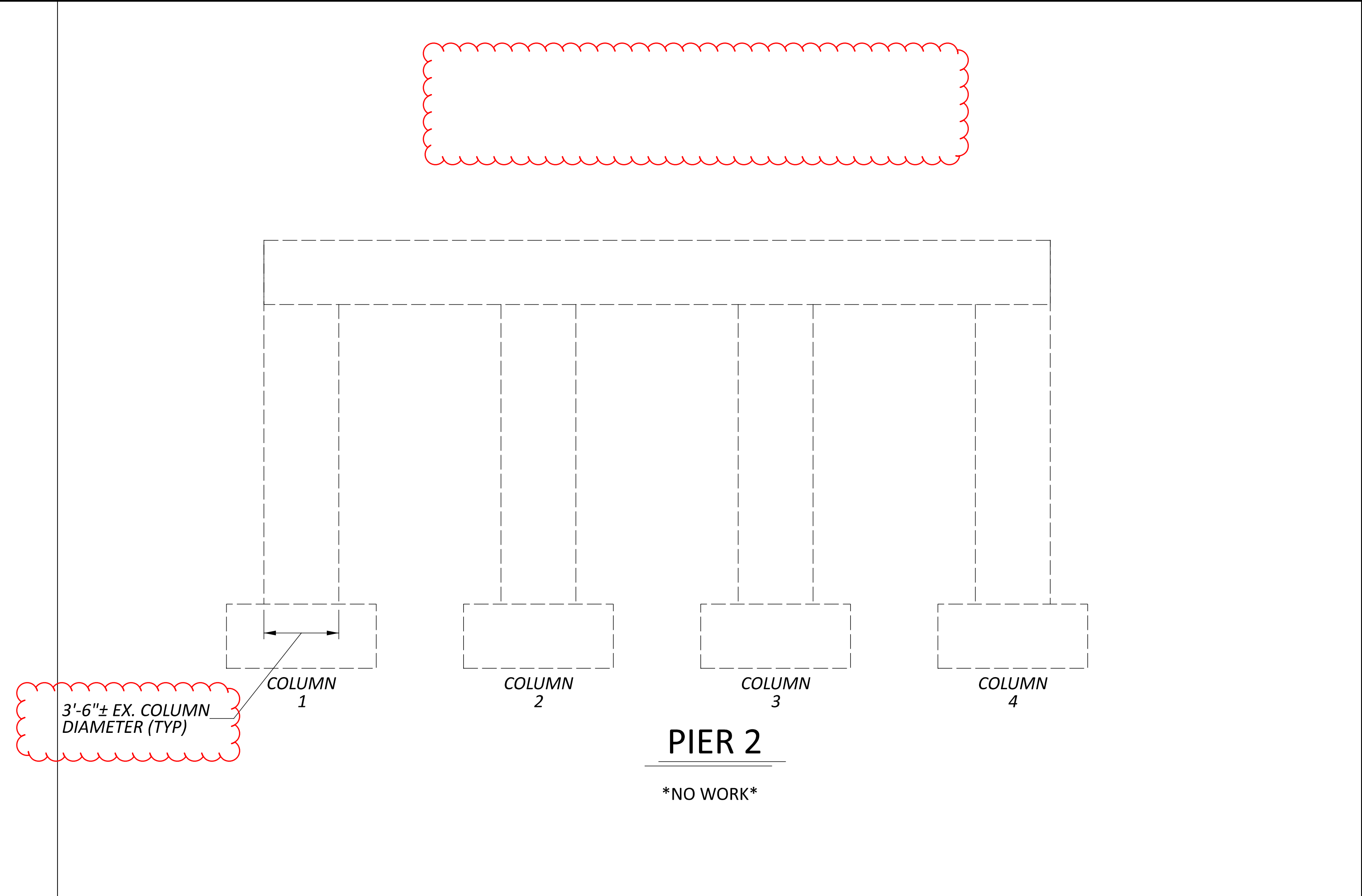
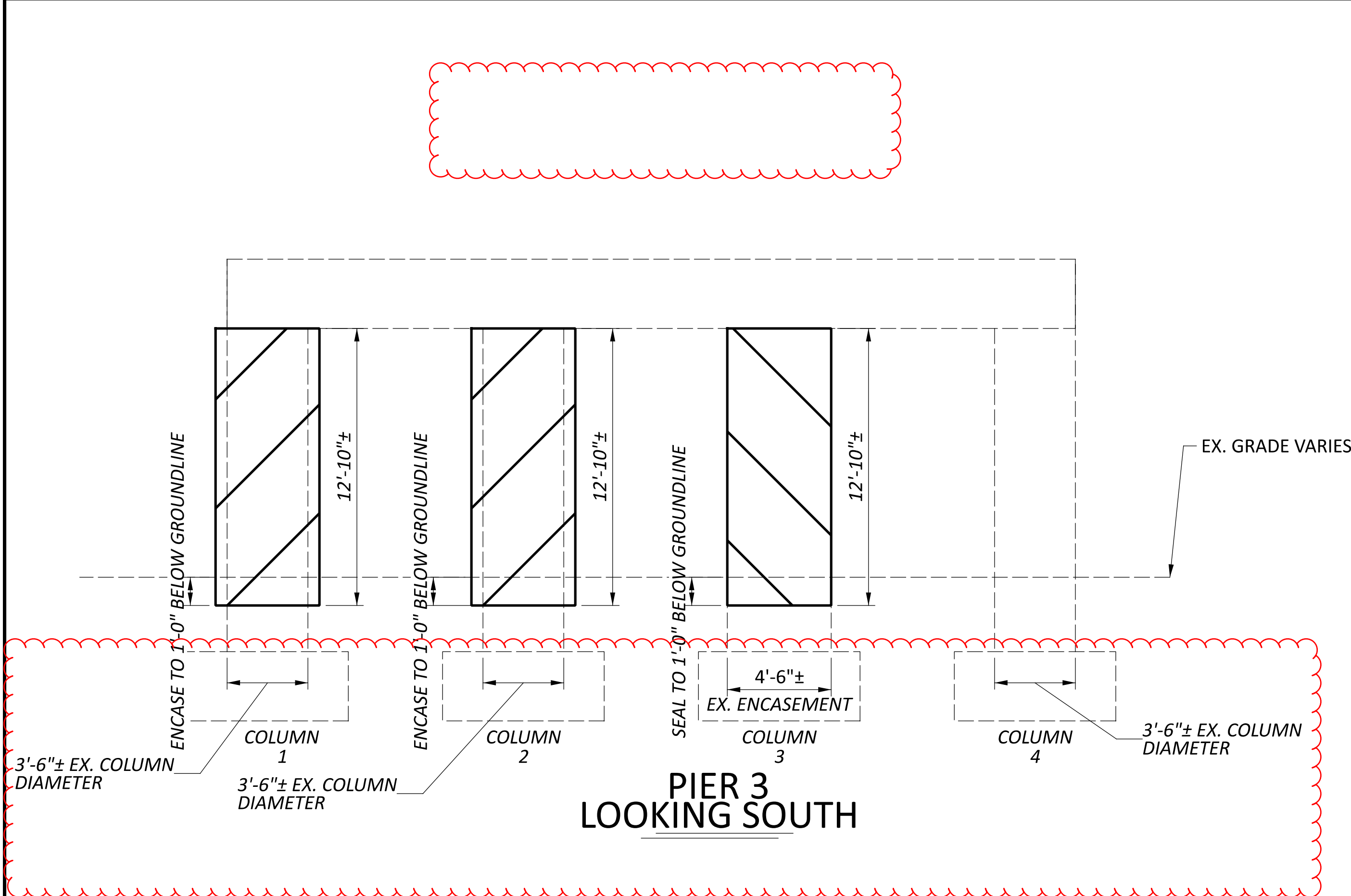
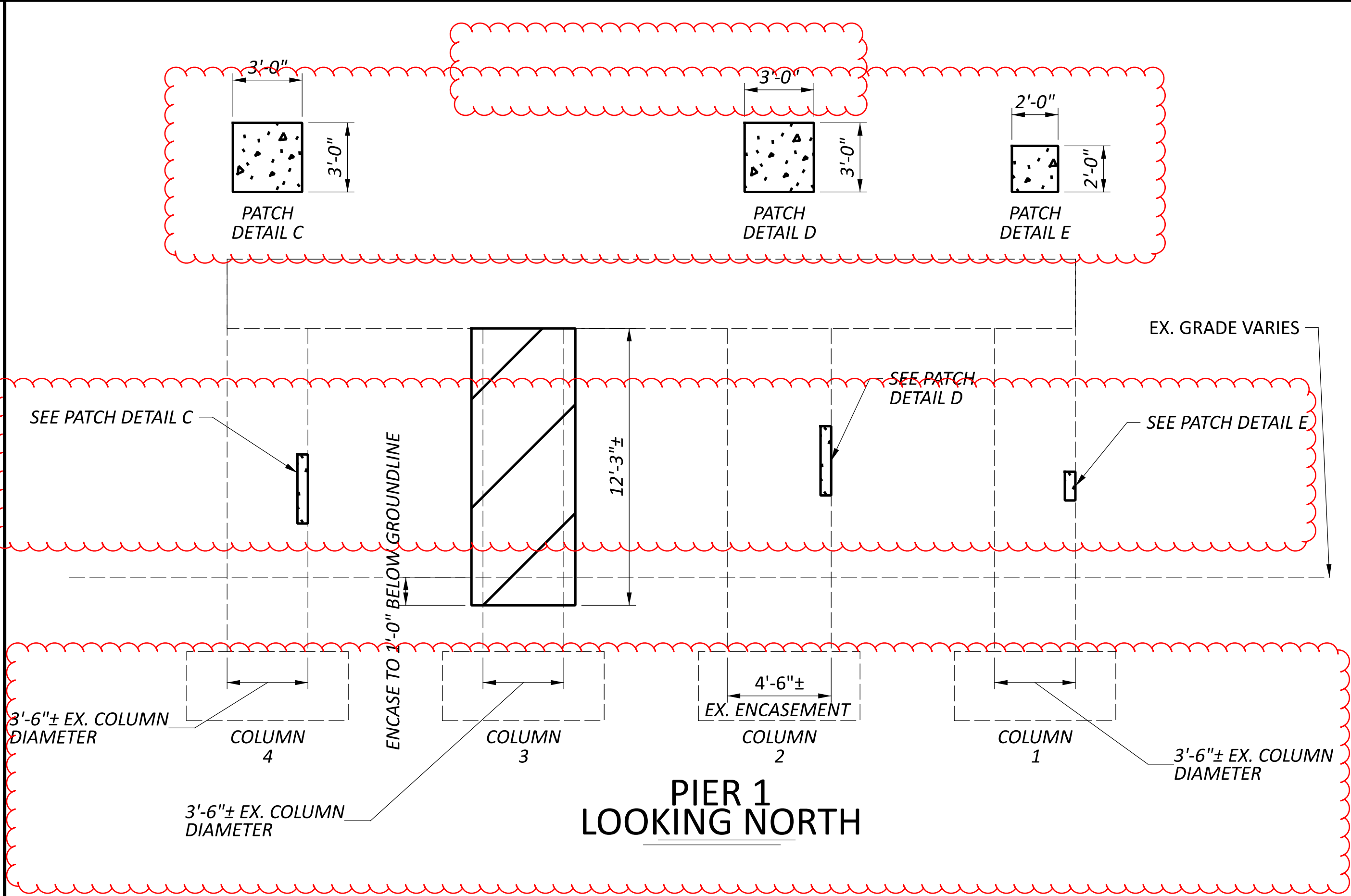
COLUMN HEIGHTS (FT)	
PIER #1	13.28
PIER #2	14.95
PIER #3	13.68



PIER ELEVATION TYPICAL

EX. GRADE VARIES

ALL ENCASEMENT AND SEALING TO BE PERFORMED FROM TOP OF COLUMN TO 1'-0" BELOW THE GROUND LINE

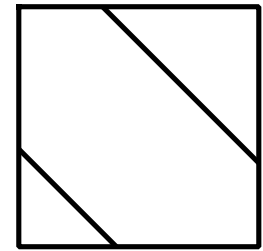
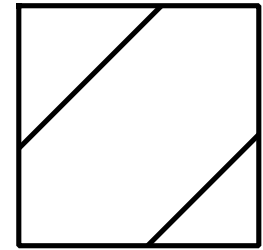
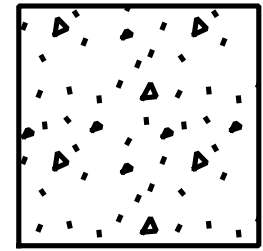


STRUCTURE SUBSUMMARY

ITEM	QUANTITY	UNIT	DESCRIPTION
203E10000	2	CY	EXCAVATION
203E20000	2	CY	EMBANKMENT
509E25000	323	LB	UNCOATED STEEL REINFORCEMENT (6x6-W4.0XW4.0, WELDED WIRE FABRIC)
511E53010	9	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
512E10100	89	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512E74000	21	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
519E11100	22	SF	PATCHING CONCRETE STRUCTURE
844E20000	32	EACH	GALVANIC ANODE PROTECTION

ALL QUANTITIES CARRIED TO STRUCTURE SUBSUMMARY

LEGEND



- COLUMN PATCHING
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
ITEM 519 - PATCHING CONCRETE STRUCTURE
ITEM 844 - GALVANIC ANODE PROTECTION

- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

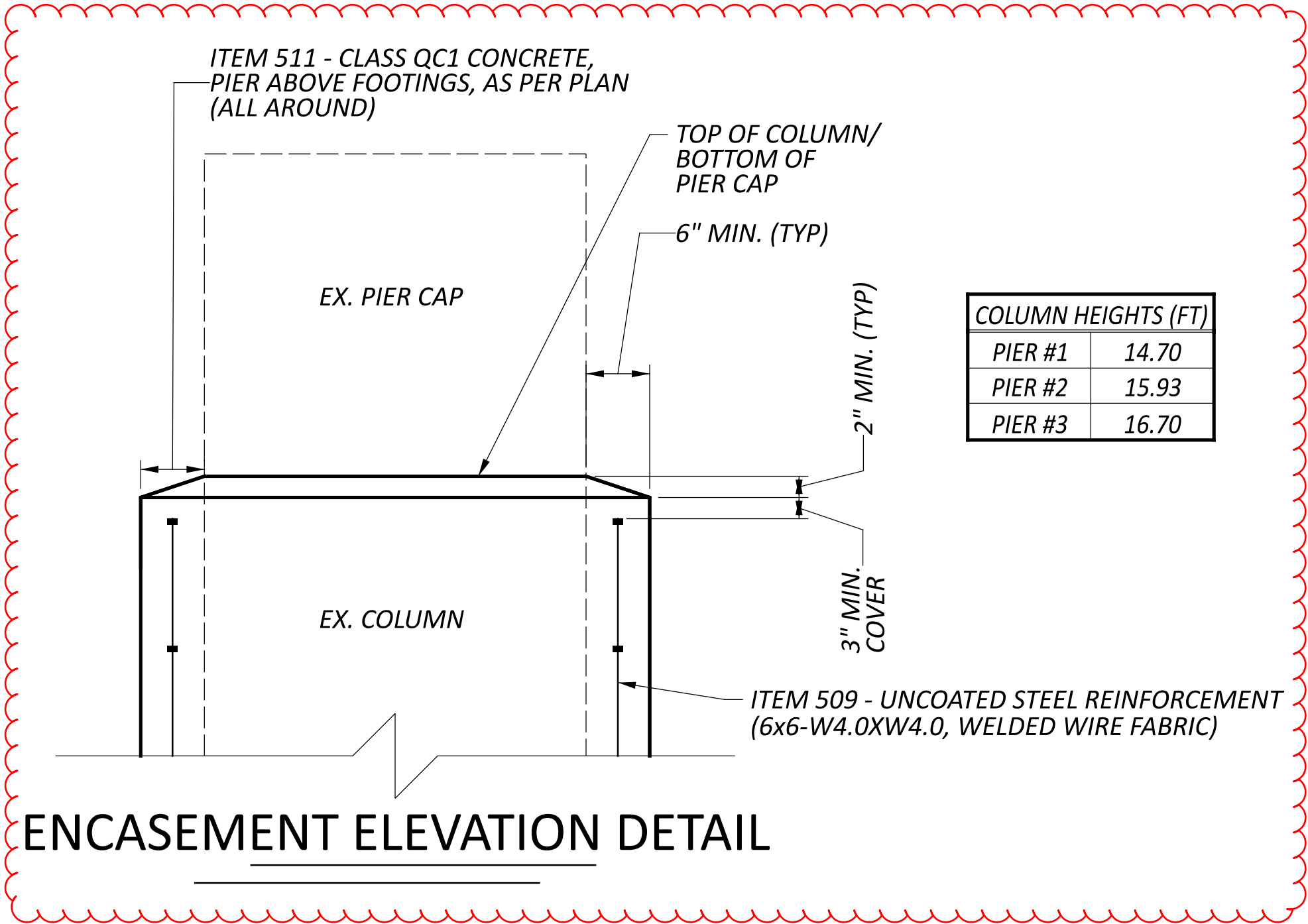
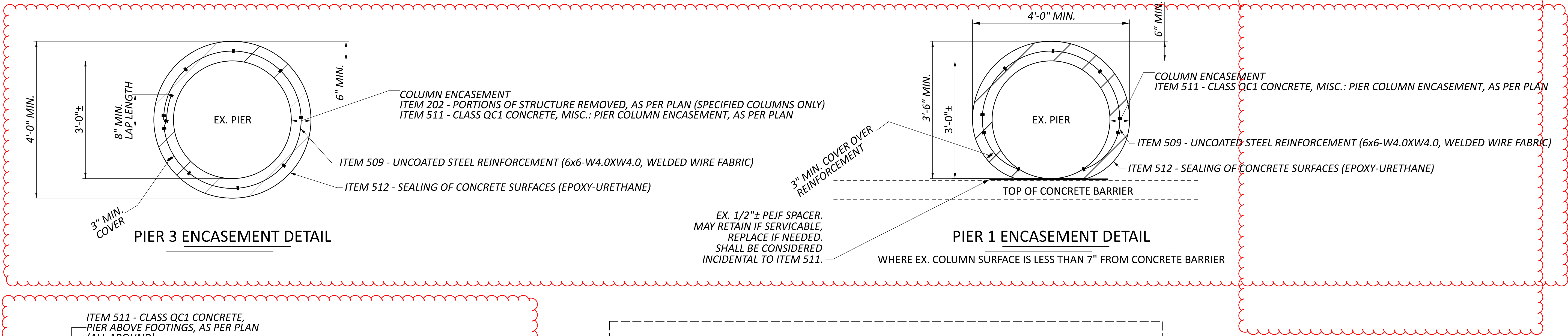
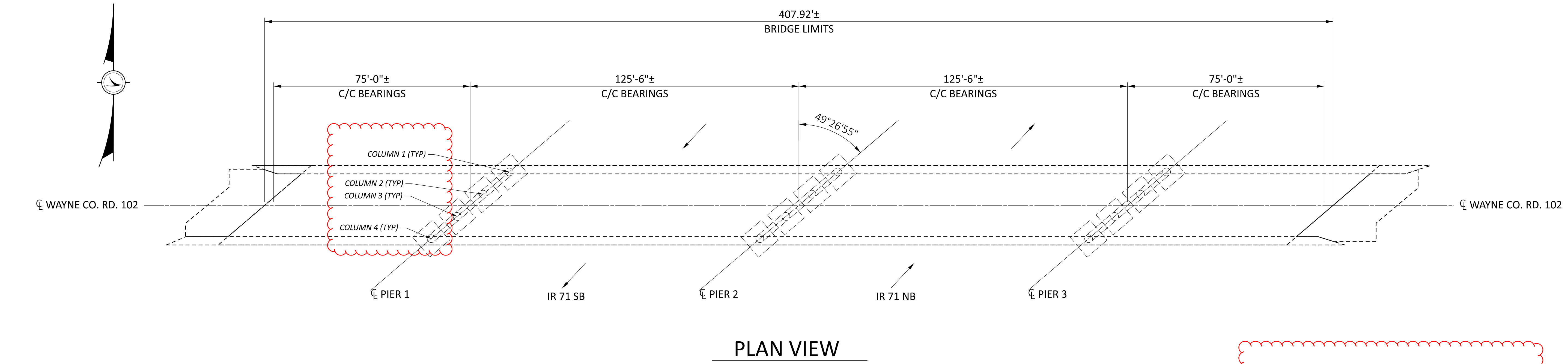
- COLUMN ENCASEMENT
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 509 - UNCOATED STEEL REINFORCEMENT (W4XW4, 6"X6", WELDED WIRE FABRIC)
ITEM 511 - CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

- COLUMN SEALING
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

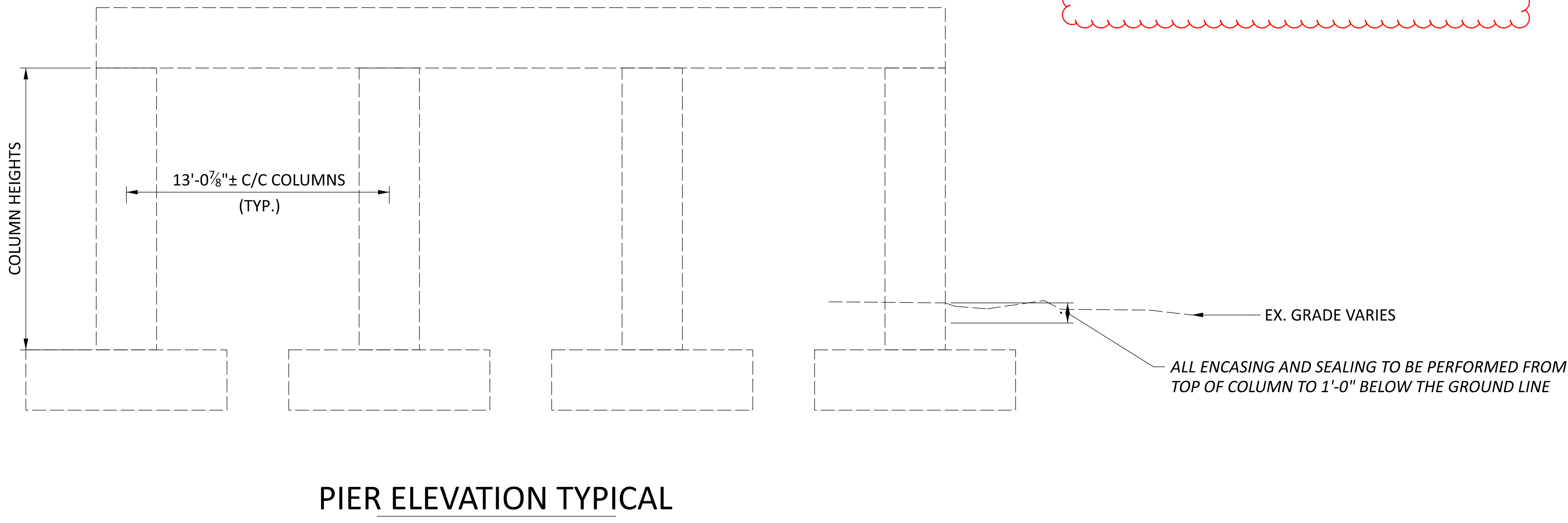
NOTES:

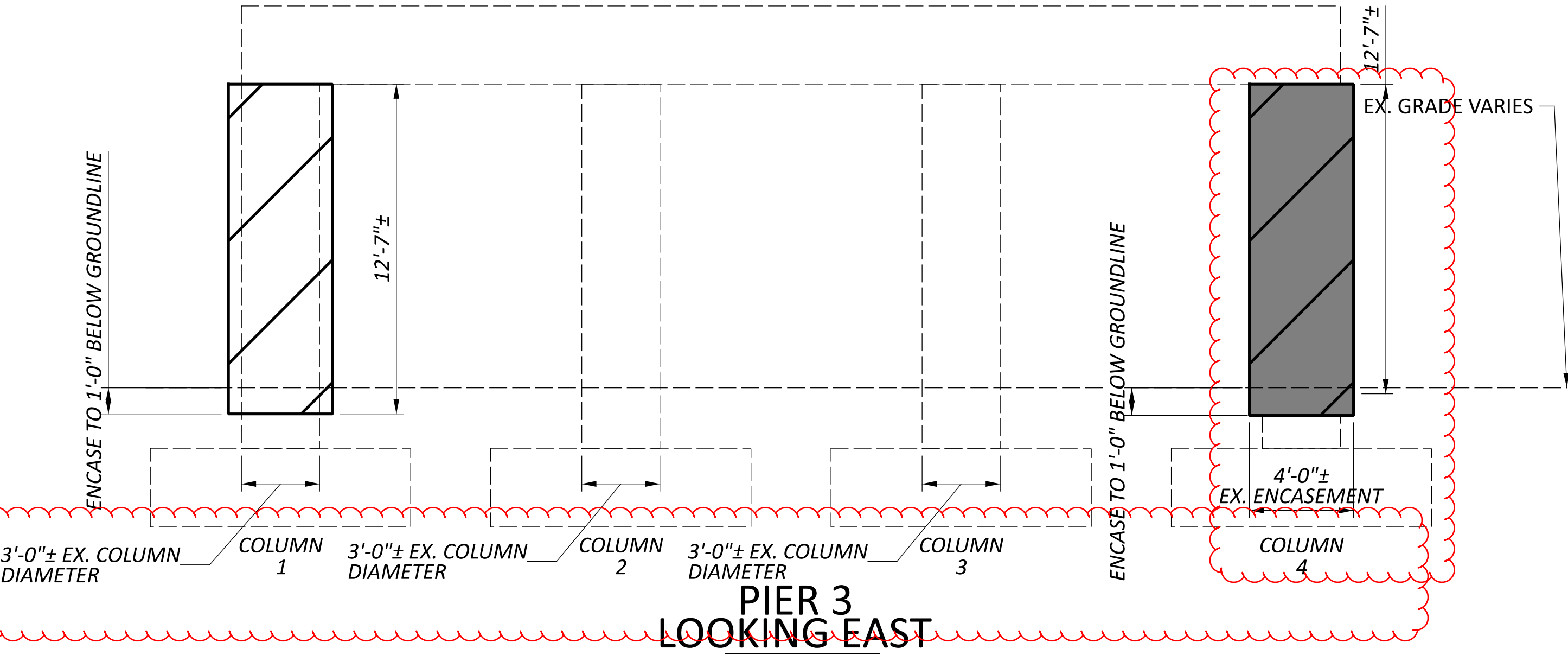
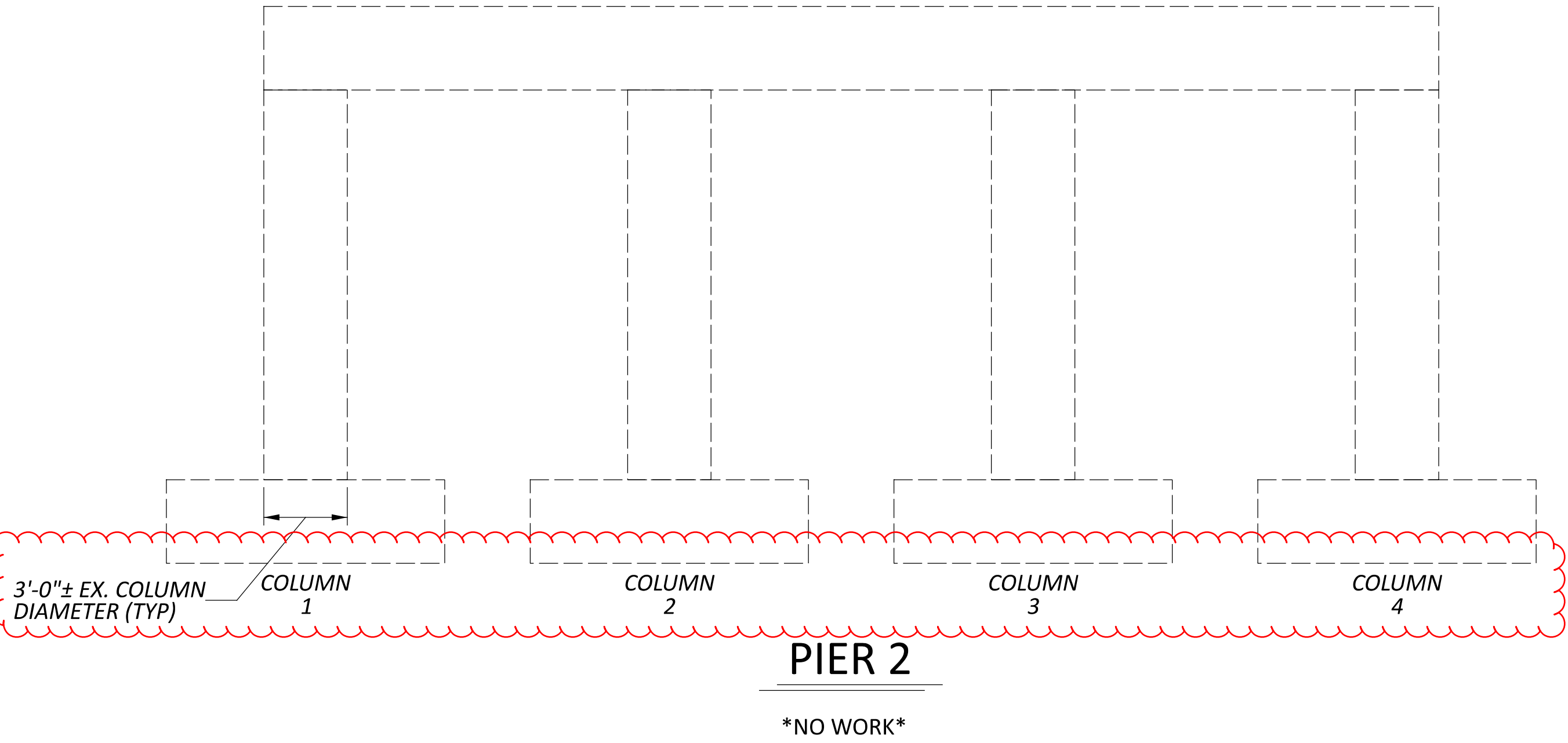
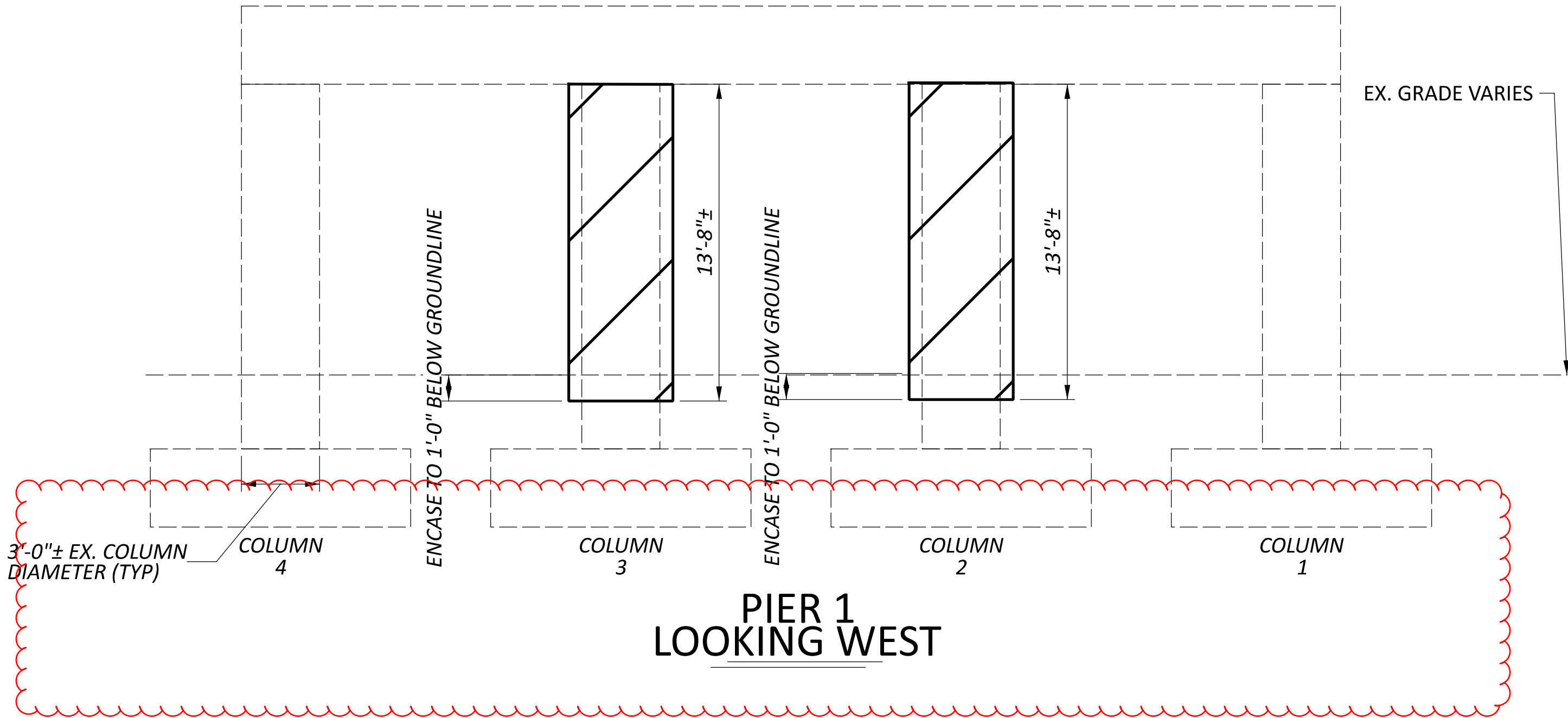
- EXCAVATION AND EMBANKMENT QUANTITIES ASSUME AN EXCAVATION 1' DEEP AND 1' WIDE FROM THE EXISTING FACE OF THE COLUMN.

- WELDED WIRE FABRIC REINFORCEMENT QUANTITIES ARE CALCULATED ASSUMING ON THREE ROWS OF 5' WIDE WIRE FABRIC, WITH MINIMUM 8" OVERLAP AT THE ENDS AND INSIDE EDGES.



COLUMN HEIGHTS (FT)	
PIER #1	14.70
PIER #2	15.93
PIER #3	16.70



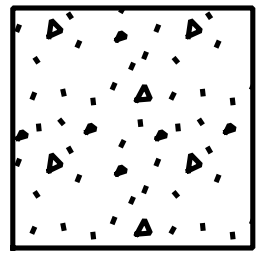


STRUCTURE SUBSUMMARY

ITEM	QUANTITY	UNIT	DESCRIPTION
202E11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
203E10000	2	CY	EXCAVATION
203E20000	2	CY	EMBANKMENT
509E25000	394	LB	UNCOATED STEEL REINFORCEMENT (6x6-W4.0XW4.0, WELDED WIRE FABRIC)
511E53010	11	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
512E10100	76	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

ALL QUANTITIES CARRIED TO STRUCTURE SUBSUMMARY

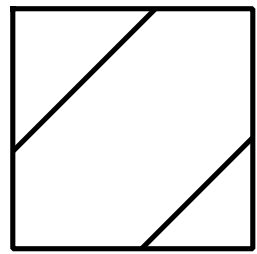
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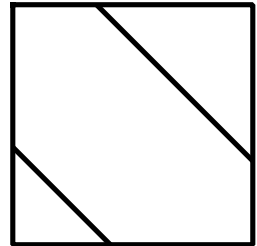
- COLUMN PATCHING
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
ITEM 519 - PATCHING CONCRETE STRUCTURE
ITEM 844 - GALVANIC ANODE PROTECTION



- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN



- COLUMN ENCASEMENT
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 509 - UNCOATED STEEL REINFORCEMENT (W4XW4, 6"X6", WELDED WIRE FABRIC)
ITEM 511 - CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)



- COLUMN SEALING
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

NOTES:
- EXCAVATION AND EMBANKMENT QUANTITIES ASSUME AN EXCAVATION 1' DEEP AND 1' WIDE FROM THE EXISTING FACE OF THE COLUMN.
- WELDED WIRE FABRIC REINFORCEMENT QUANTITIES ARE CALCULATED ASSUMING ON THREE ROWS OF 5' WIDE WIRE FABRIC, WITH MINIMUM 8" OVERLAP AT THE ENDS AND INSIDE EDGES.

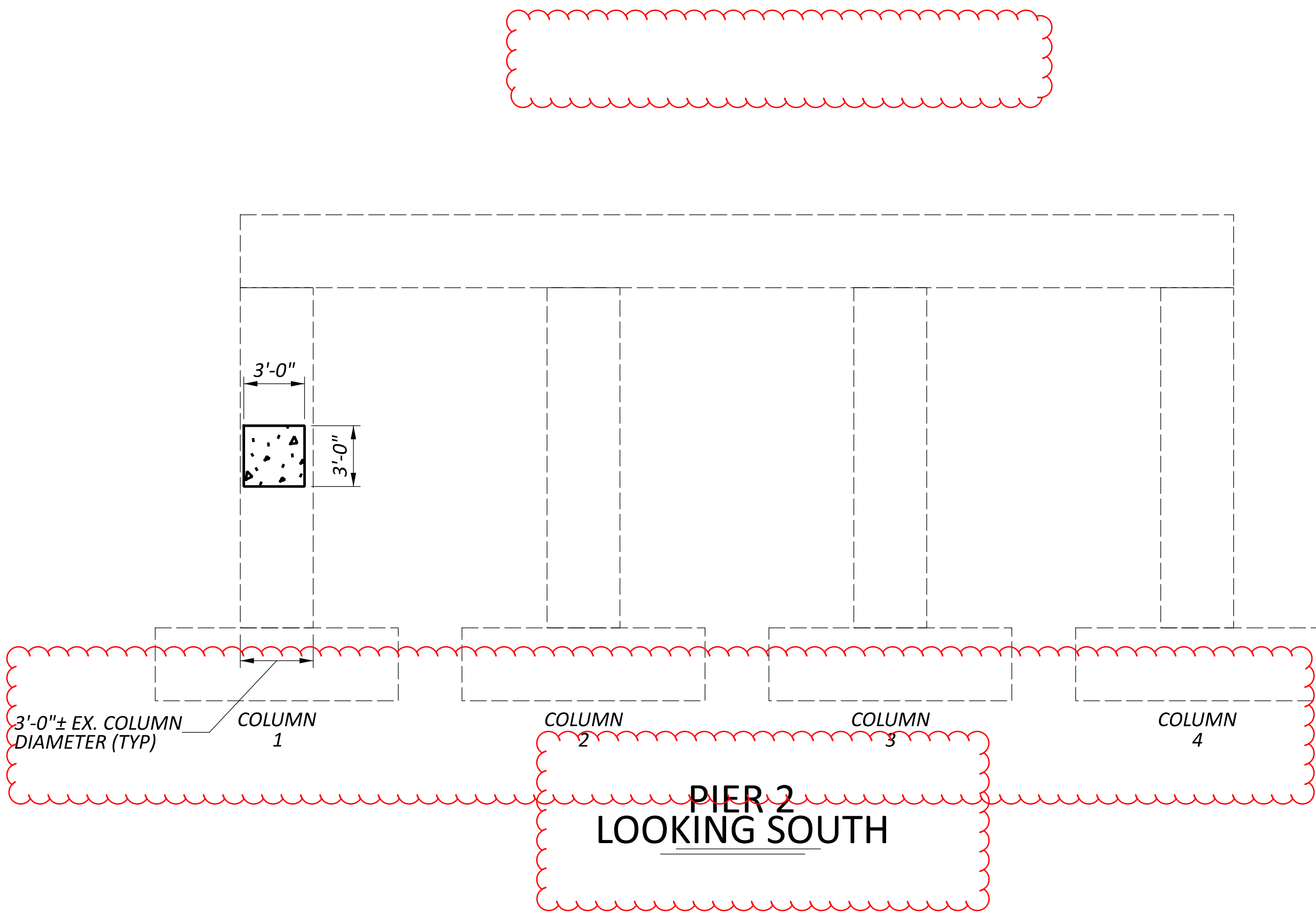
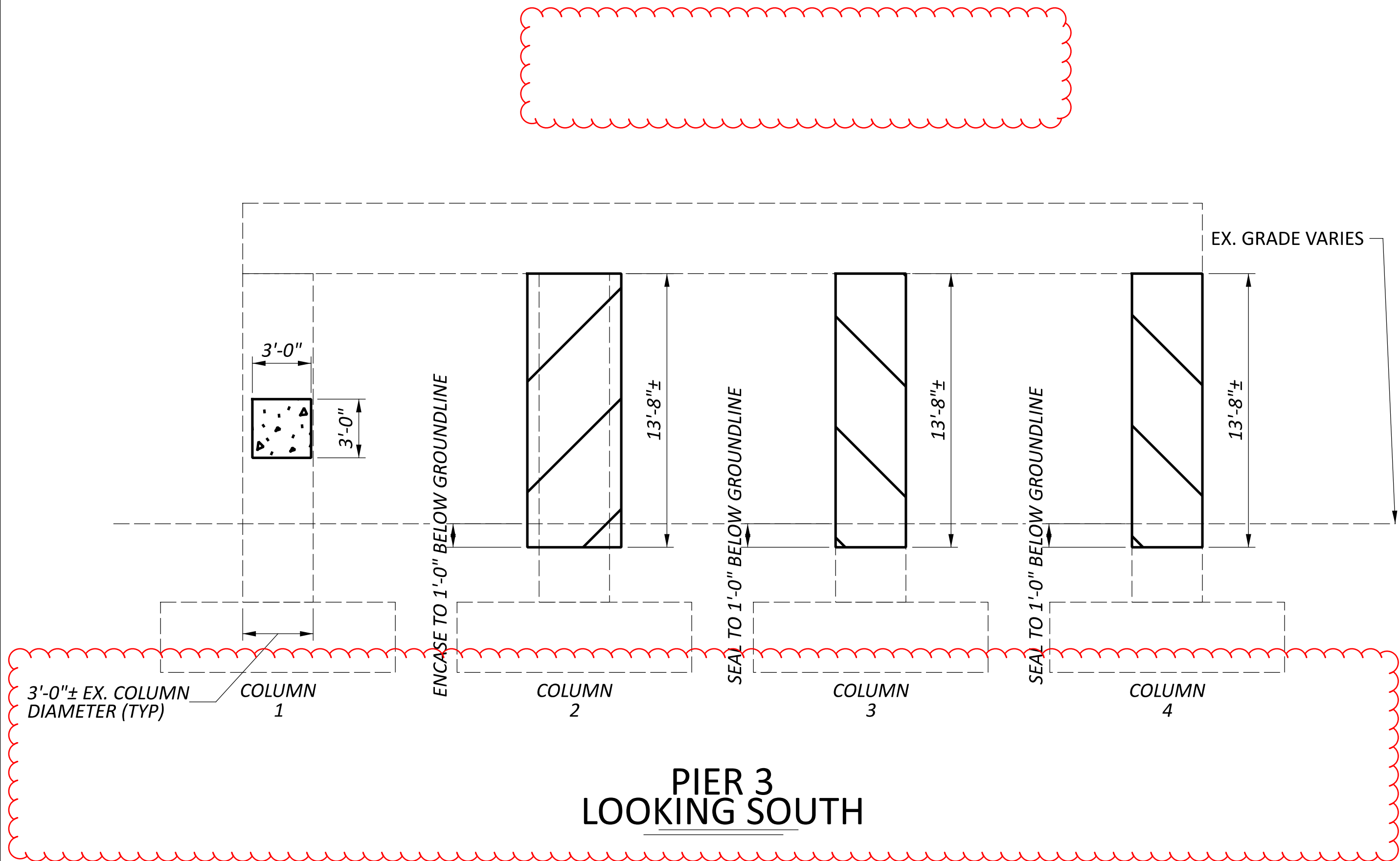
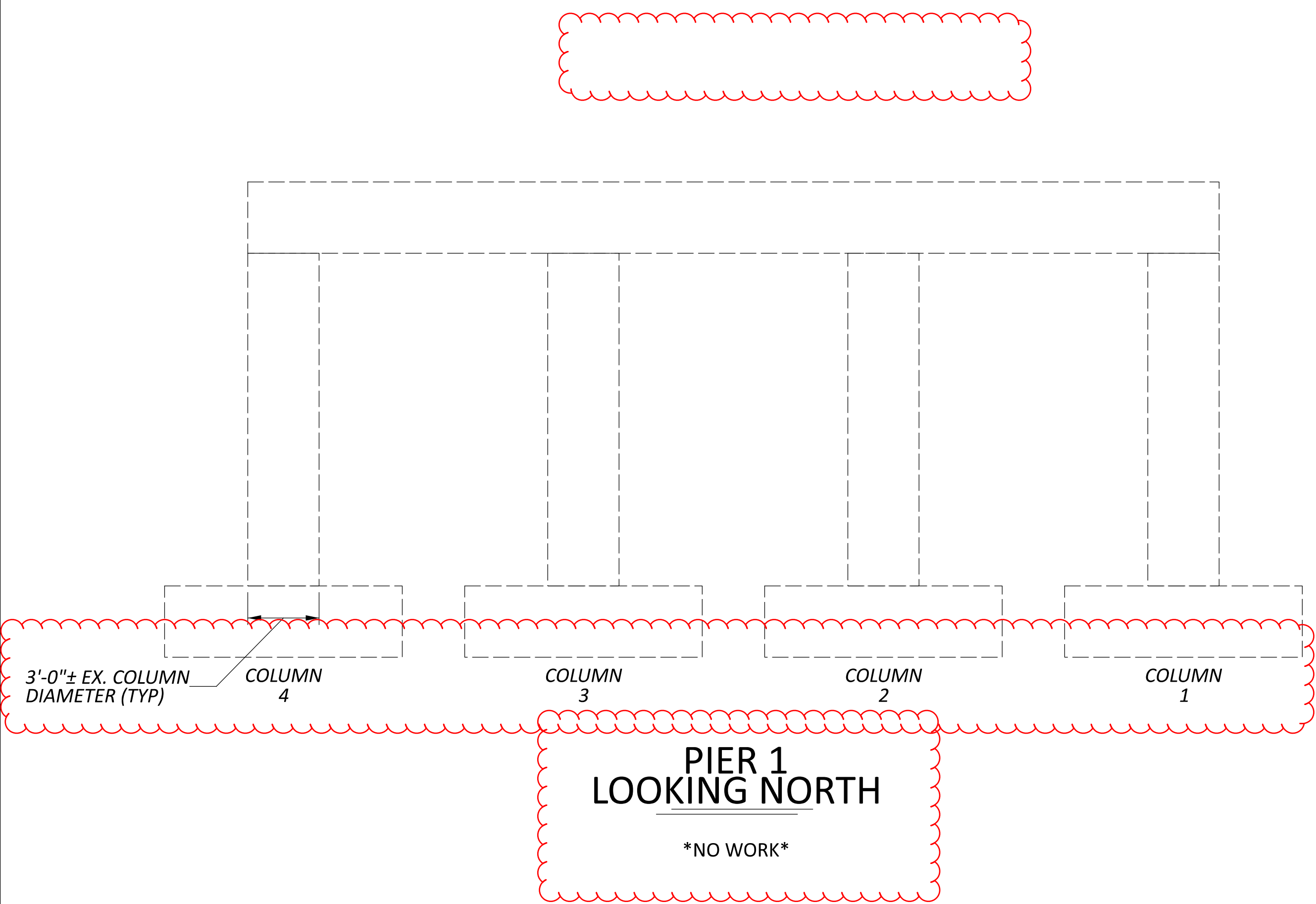


— ALL ENCASING AND SEALING TO BE PERFORMED FROM TOP OF COLUMN TO 1'-0" BELOW THE GROUND LINE



COLUMN HEIGHTS (FT)	
PIER #1	15.37
PIER #2	18.69
PIER #3	12.92



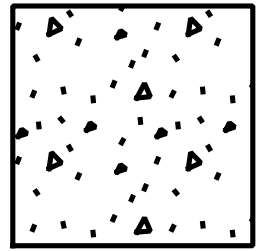


STRUCTURE SUBSUMMARY

ITEM	QUANTITY	UNIT	DESCRIPTION
203E10000	2	CY	EXCAVATION
203E20000	2	CY	EMBANKMENT
509E25000	102	LB	UNCOATED STEEL REINFORCEMENT (6x6-W4.0XW4.0, WELDED WIRE FABRIC)
511E53010	3	CY	CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
512E10100	52	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512E74000	33	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
519E11100	18	SF	PATCHING CONCRETE STRUCTURE
844E20000	24	EA	GALVANIC ANODE PROTECTION

ALL QUANTITIES CARRIED TO STRUCTURE SUBSUMMARY

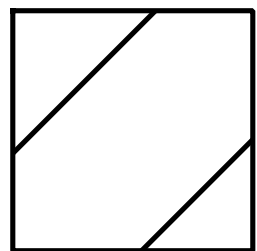
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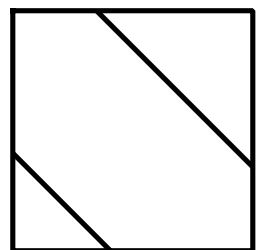
- COLUMN PATCHING
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
ITEM 519 - PATCHING CONCRETE STRUCTURE
ITEM 844 - GALVANIC ANODE PROTECTION



- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN



- COLUMN ENCASEMENT
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 509 - UNCOATED STEEL REINFORCEMENT (W4XW4, 6"X6", WELDED WIRE FABRIC)
ITEM 511 - CLASS QC1 CONCRETE, MISC.: PIER COLUMN ENCASEMENT, AS PER PLAN
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)



- COLUMN SEALING
ITEM 203 - EXCAVATION
ITEM 203 - EMBANKMENT
ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

NOTES:

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