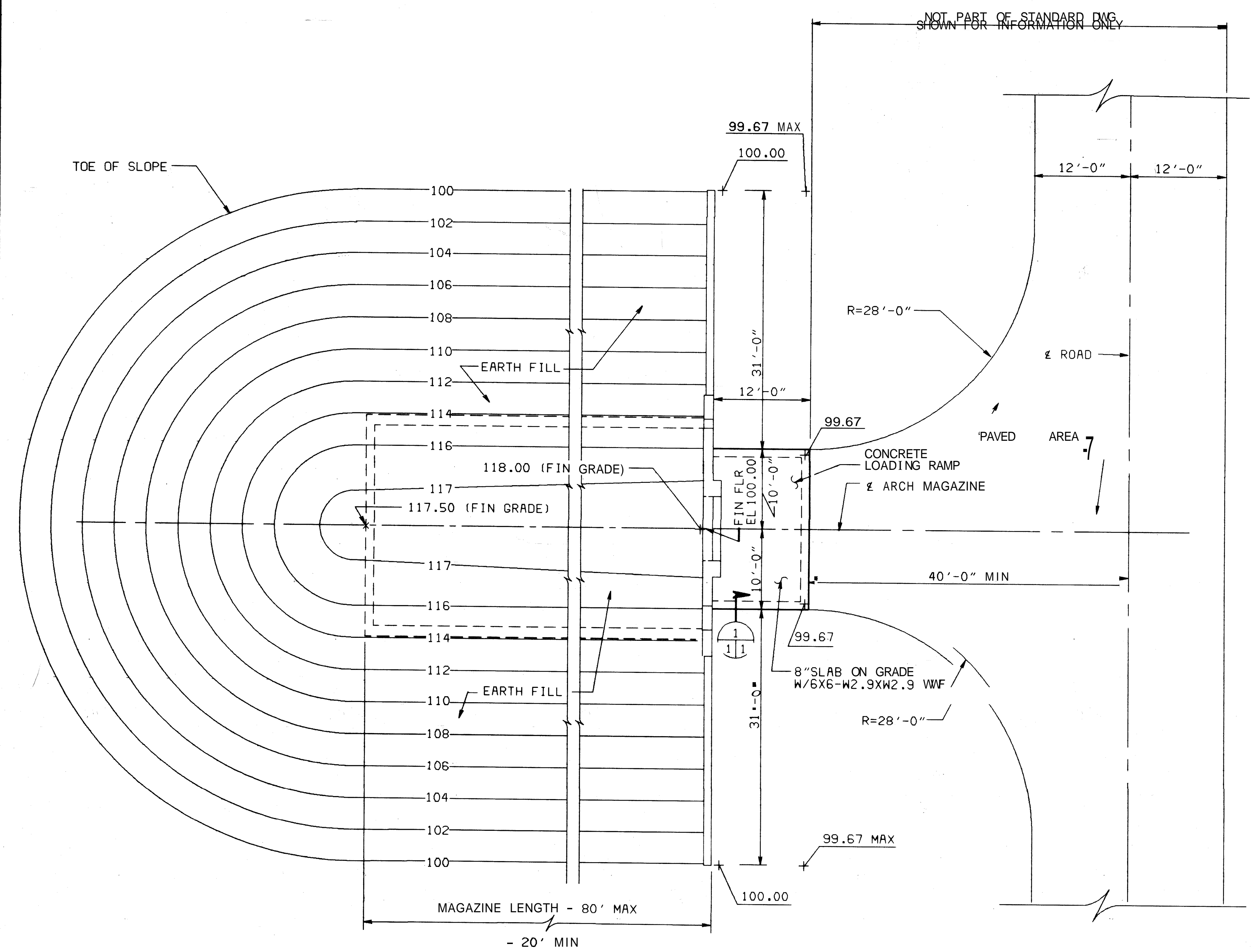


REVISIONS			
LTR	DESCRIPTION	PREP'D BY	DATE APPROVED

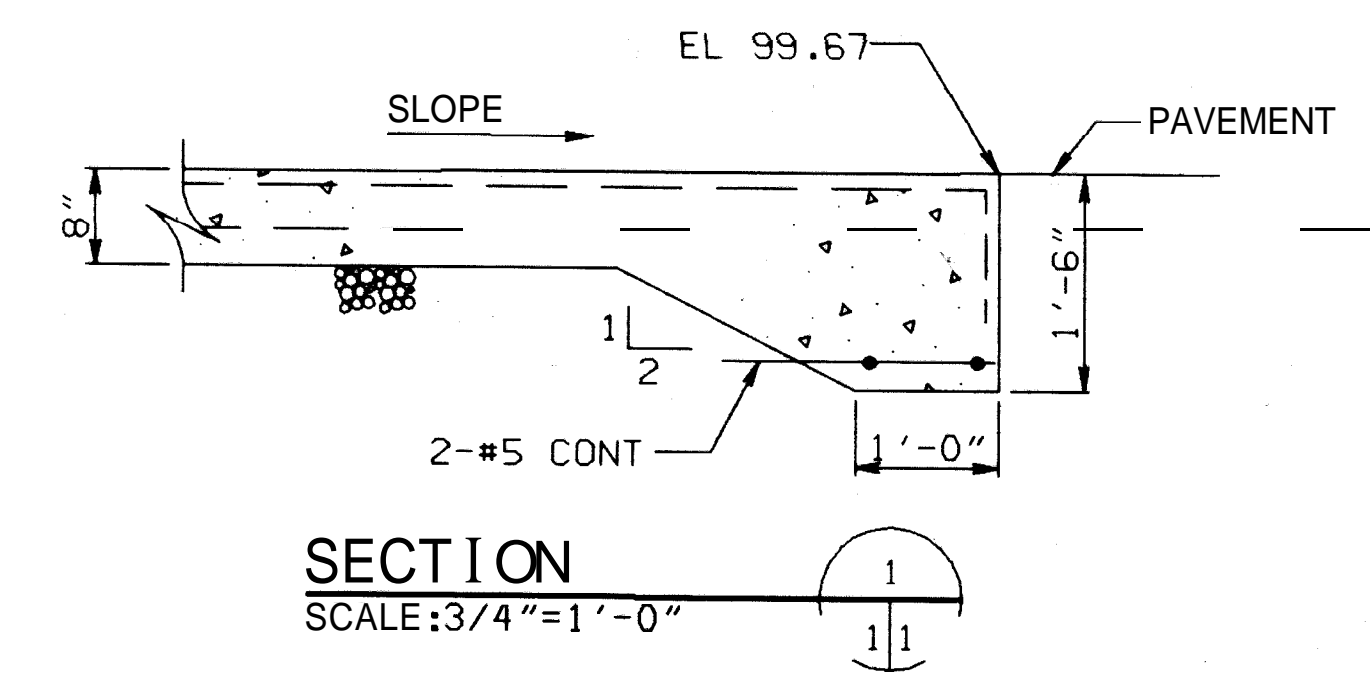
ABBREVIATIONS

AB	ANCHOR BOLT	LG	LARGE, LONG
ABT	ABOUT	LONG.	LONGITUDINAL
ACI	AMERICAN CONCRETE INSTITUTE	MA	MILL AMP
AHR	ANCHOR	MAX	MAXIMUM
AMP	AMPERE	MIN	MINIMUM
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	NAVFAC	NAVAL FACILITIES ENGINEERING COMMAND
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BOT	BOTTOM	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NO	NUMBER
CL	CENTERLINE	OC	ON CENTER
CL	CLEAR	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OPRG	OPENING
CONT	CONTINUOUS		OPPOSITE
COORD	COORDINATE	PL	PLATE
CTR	CENTER	PSF	POUNDS PER SQUARE FOOT
CU	CUBIC	PSI	POUNDS PER SQUARE INCH
DET	DETAIL	R	RADIUS
DIA	DIAMETER	REF	REFERENCE
DIM	DIMENSION	REINF.	REINFORCEMENT
DWG	DRAWING	REQD	REQUIRED
EA	EACH	SECT	SECTION
EL	ELEVATION		SHEET
BW	EACH WAY	SP	SPANBOARD
EXP	EXPANSION	STD	STANDARD
F	FAHRENHEIT	T&B	TOP AND BOTTOM
FIN	FINISH	TYP	TYPICAL
FLR	FLOOR	V	VOLT
FTG	FOOTING	VERT	VERTICAL
GA	GAGE	W	WITH
GALV	GALVANIZE	WFG	WATERPROOFING
HORIZ	HORIZONTAL	W/O	WITHOUT
IDS	INTRUSION DETECTION SYSTEM	WT	WEIGHT
		WWF	WELDED WIRE FABRIC
		YD	YARD



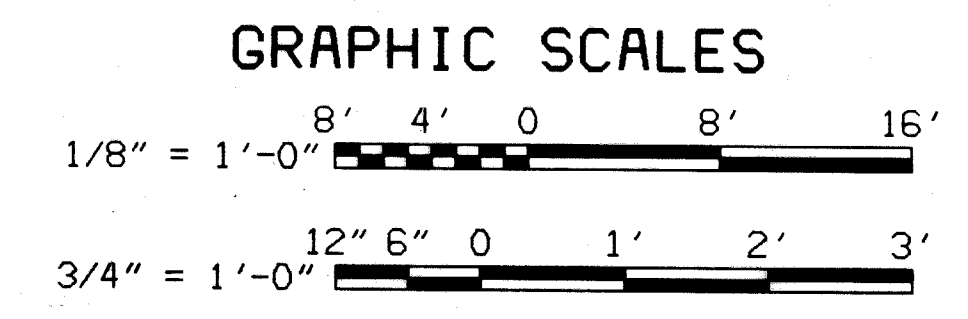
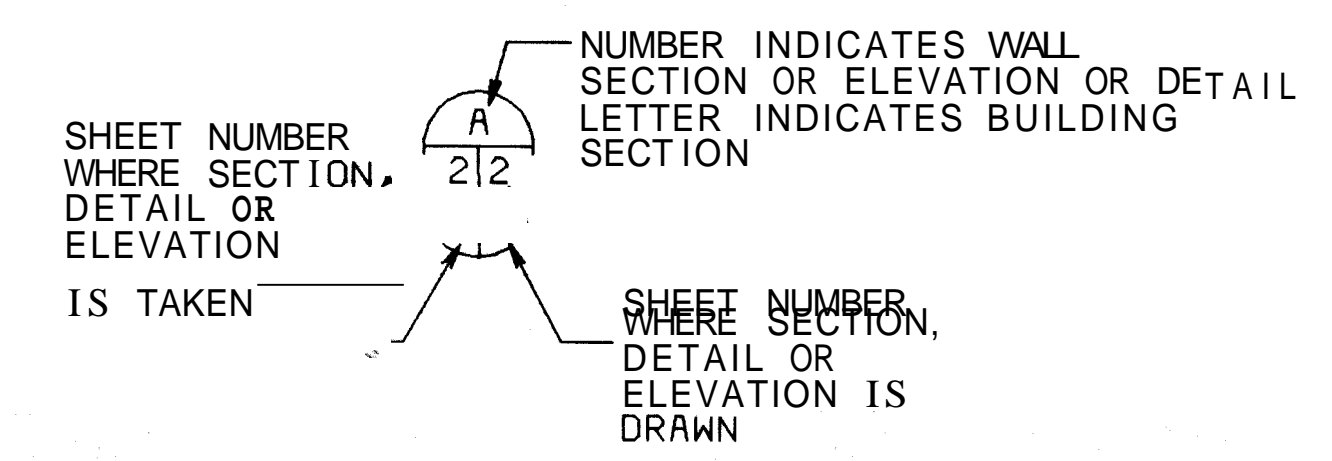
SITE PLAN MAGAZINE AT GRADE-LEVEL

SCALE: 1/8" = 1'-0"
CONTOUR INTERVAL: 2', TYP (UNLESS OTHERWISE NOTED)



SECTION
SCALE: 3/4" = 1'-0"

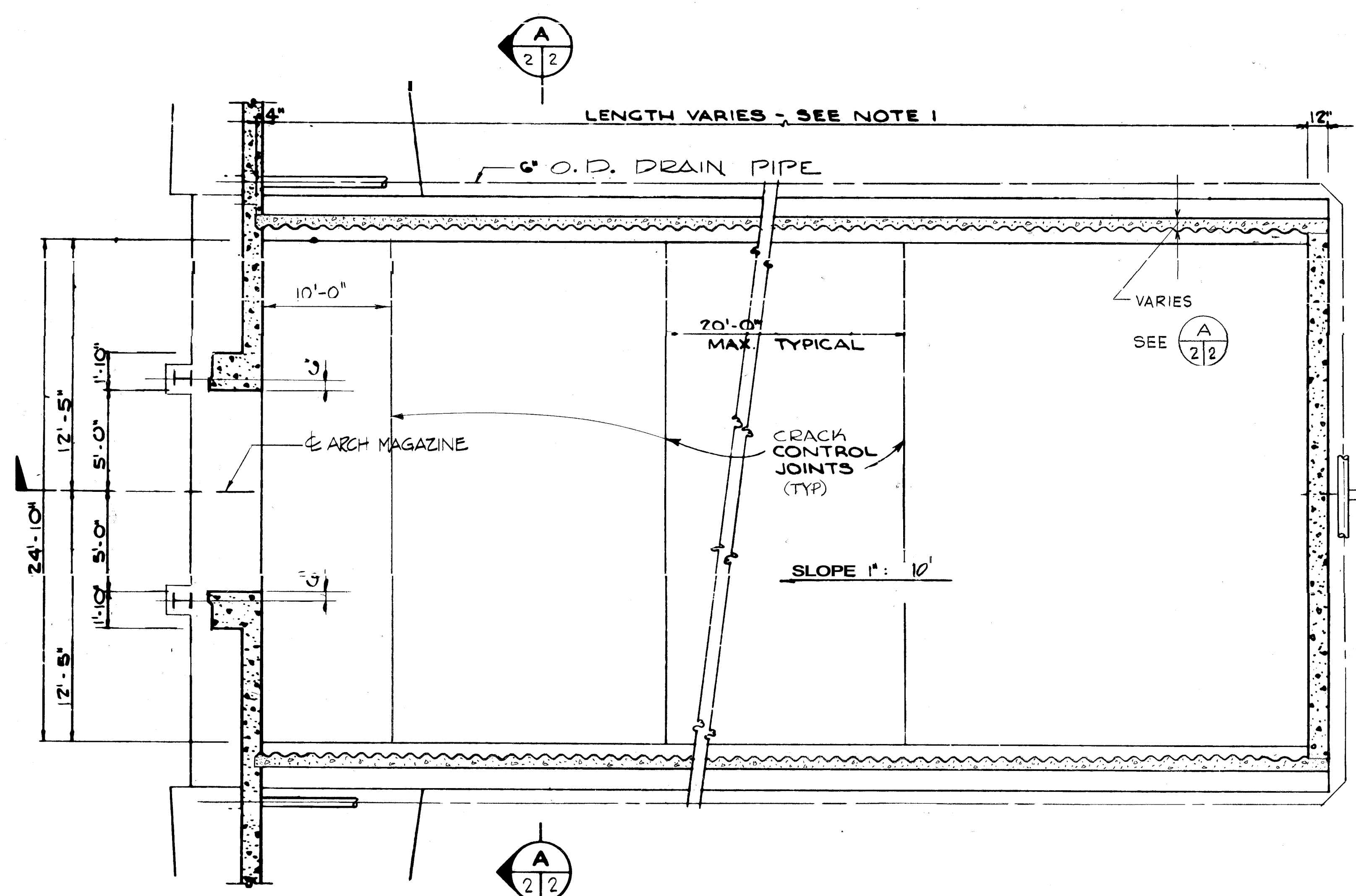
- NOTES:
1. SITE PLAN IS REFERENCED TO A FIN FLR ELEVATION OF 100'-0". FOR TRUE SITE ELEVATION, SEE GRADING AND DRAINAGE PLANS.
 2. CONTOURS SHOWN REPRESENT TYPICAL CONDITIONS FOR SINGLE MAGAZINE. CONTOURS MAY REQUIRE ADJUSTMENT FOR SITING OF MULTIPLE MAGAZINES, OR WHERE SOIL OR DRAINAGE CONDITIONS SO INDICATE.



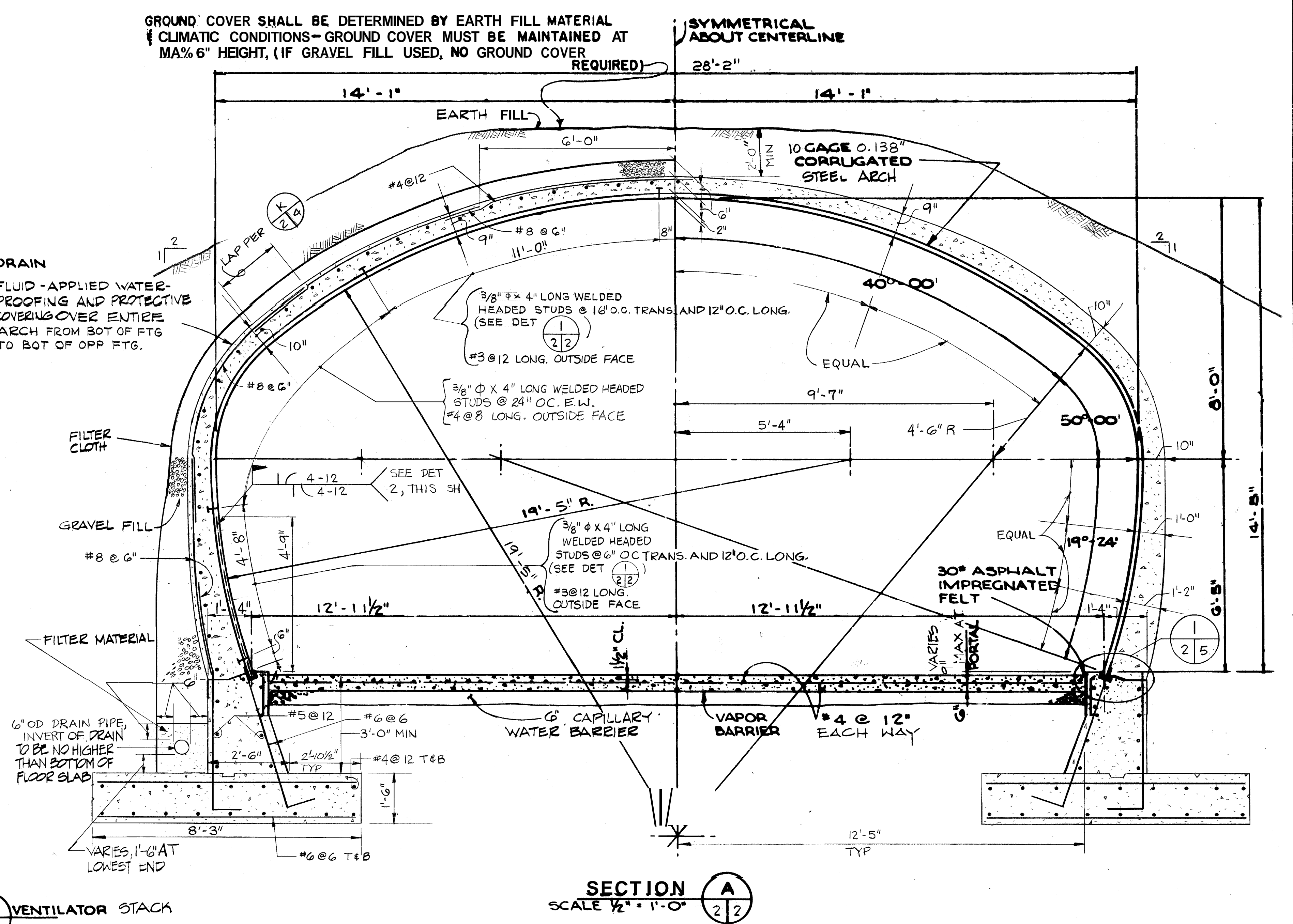
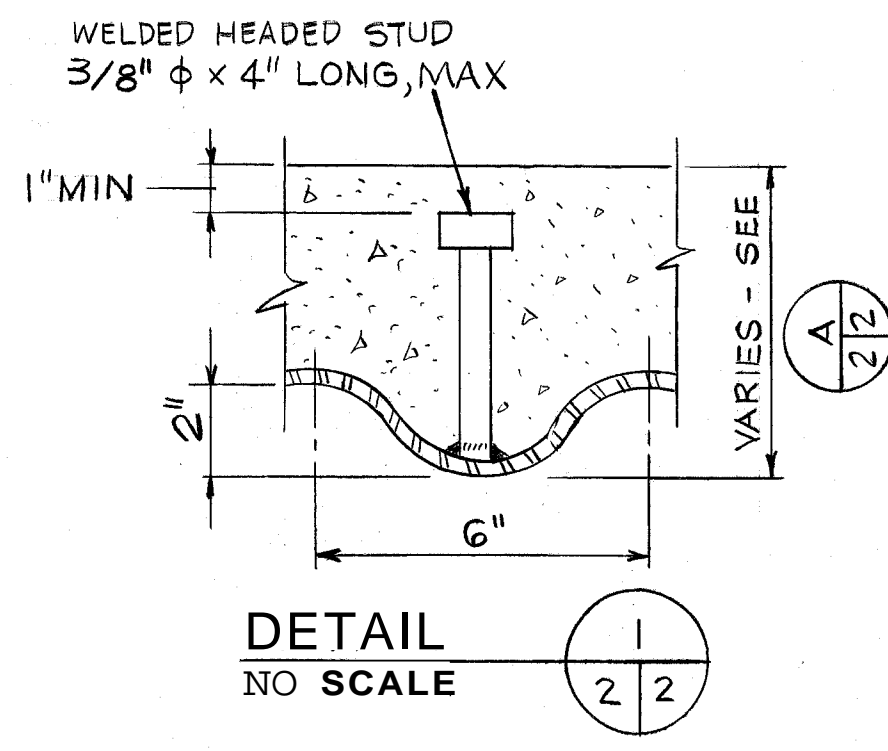
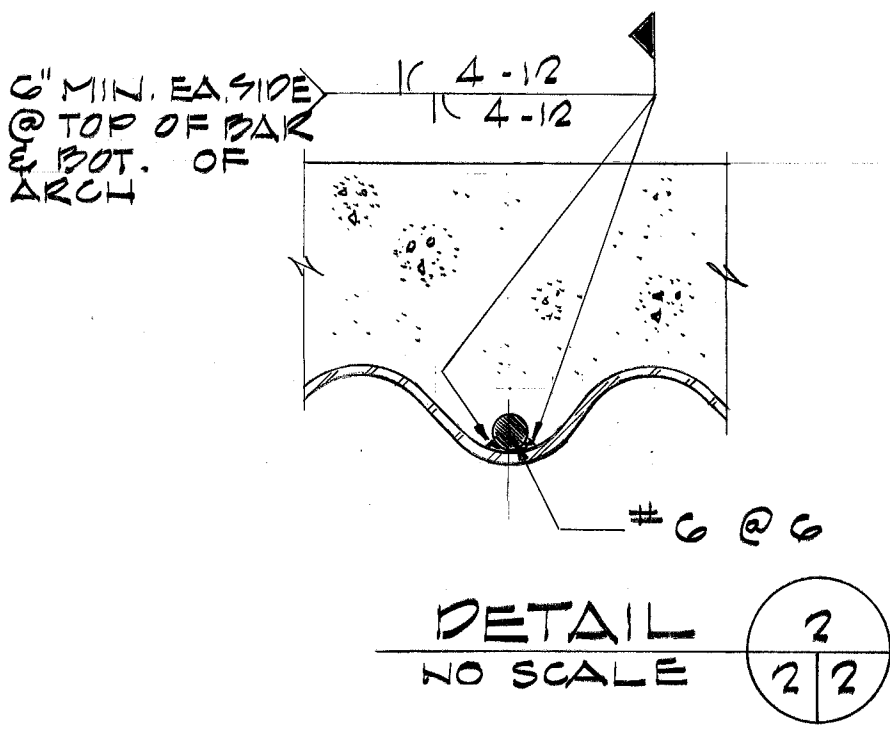
CHECK GRAPHIC SCALES BEFORE USING

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332		STANDARD EARTH-COVERED, OVAL COMPOSITE ARCH MAGAZINE	
DESIGNED BY: DR CAD	CHK: RWJ	CIVIL SITE PLAN AND ABBREVIATIONS MAGAZINE AT GRADE LEVEL	
SUPV. DLT: CH ENGR DLT	DATE: 10/24/84	SIZE: F	CODE IDENT. NO.: 80091
DR: [Signature]	DATE: 10/24/84	NAVFAC DRAWING NO.: 1404390	CONSTR. CONTR. NO.:
APPROVED: [Signature]	DATE: 1-14-86	SCALE: AS NOTED	SPEC. NFSS-M22

REVISIONS			
ITR	DESCRIPTION	PREP'D BY	DATE APPROVED



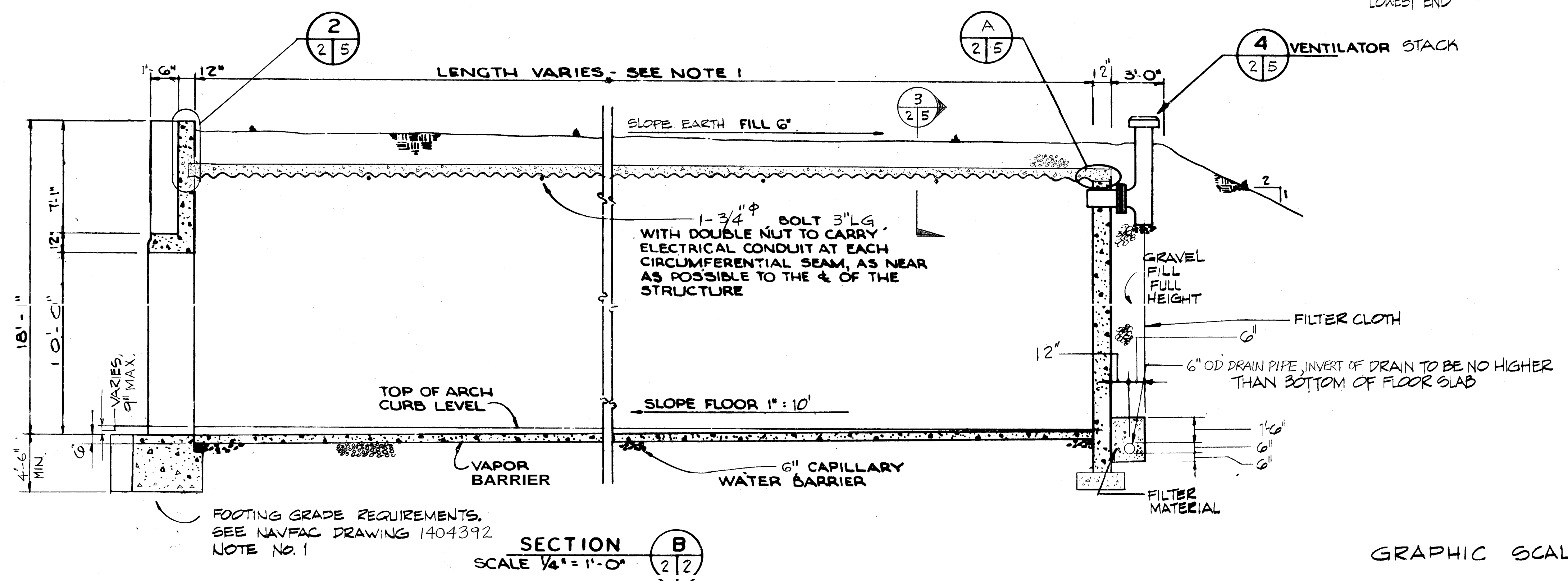
PLAN
SCALE 1/4" = 1'-0"



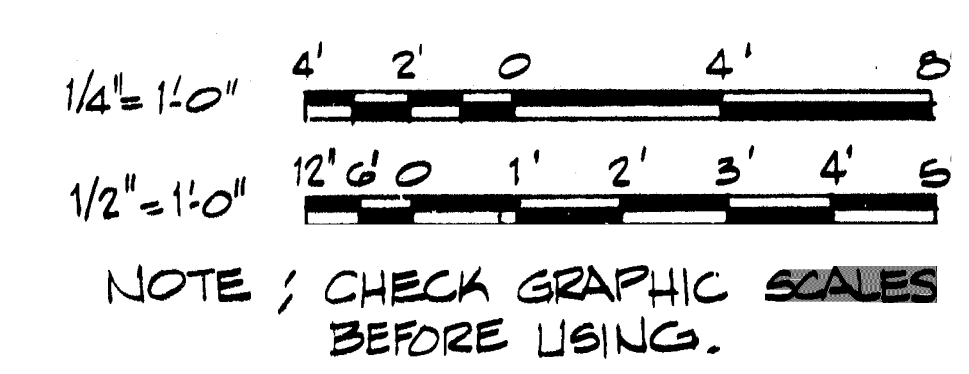
NOTES

- MINIMUM LENGTH 20'-0". FOR ADDITIONAL LENGTH ADD CORRUGATED STEEL PLATES OF 10'-0" AND/OR 12'-0" NET LENGTHS, MAXIMUM LENGTH 80'-0".
- REINFORCING STEEL AND ALL METAL SHALL BE MADE ELECTRICALLY CONTINUOUS BY WELDING.
- REINFORCING STEEL SHALL BE ASTM A615 OR A616 WITH THE FOLLOWING GRADES:
TIES - GRADE 40
ALL OTHER - GRADE 60
- SEE SH 7 FOR CONSTRUCTION SEQUENCE.
- DRAINS TO BE SITE ADAPTED TO DRAIN EITHER TO THE FRONT OR REAR OF THE MAGAZINE.
- FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698, EXCEPT THE FILL DIRECTLY ABOVE THE ARCH SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY.
- WHERE THE WATER TABLE IS NEAR THE ELEVATION OF THE MAGAZINE FLOOR SLAB, THE DETAILS SHALL BE MODIFIED TO PREVENT WATER SEEPAGE INTO THE MAGAZINE (EG. WATERSTOPS, POSITIVE DRAINAGE FROM BENEATH SLAB).
- SEE SHEET 7 FOR LONGITUDINAL STUD SPACING.

CHECK GRAPHIC SCALES BEFORE USING

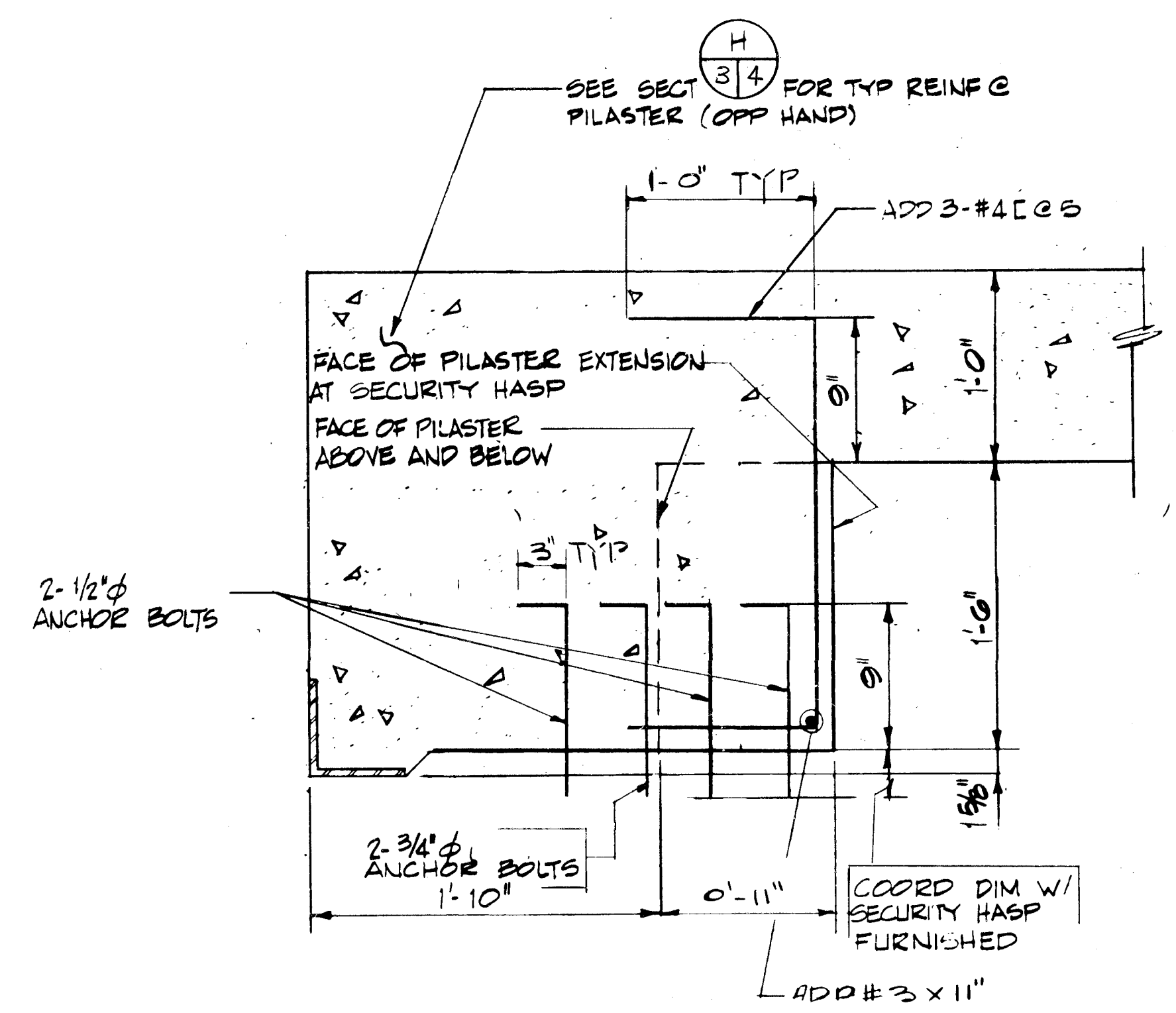
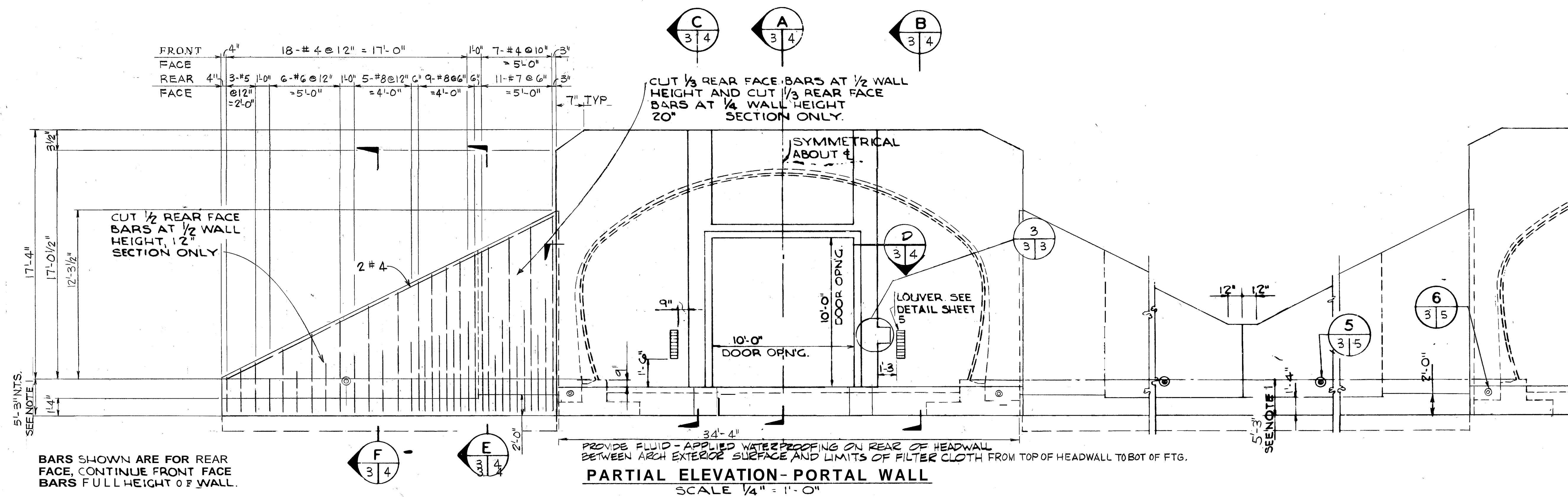


GRAPHIC SCALES

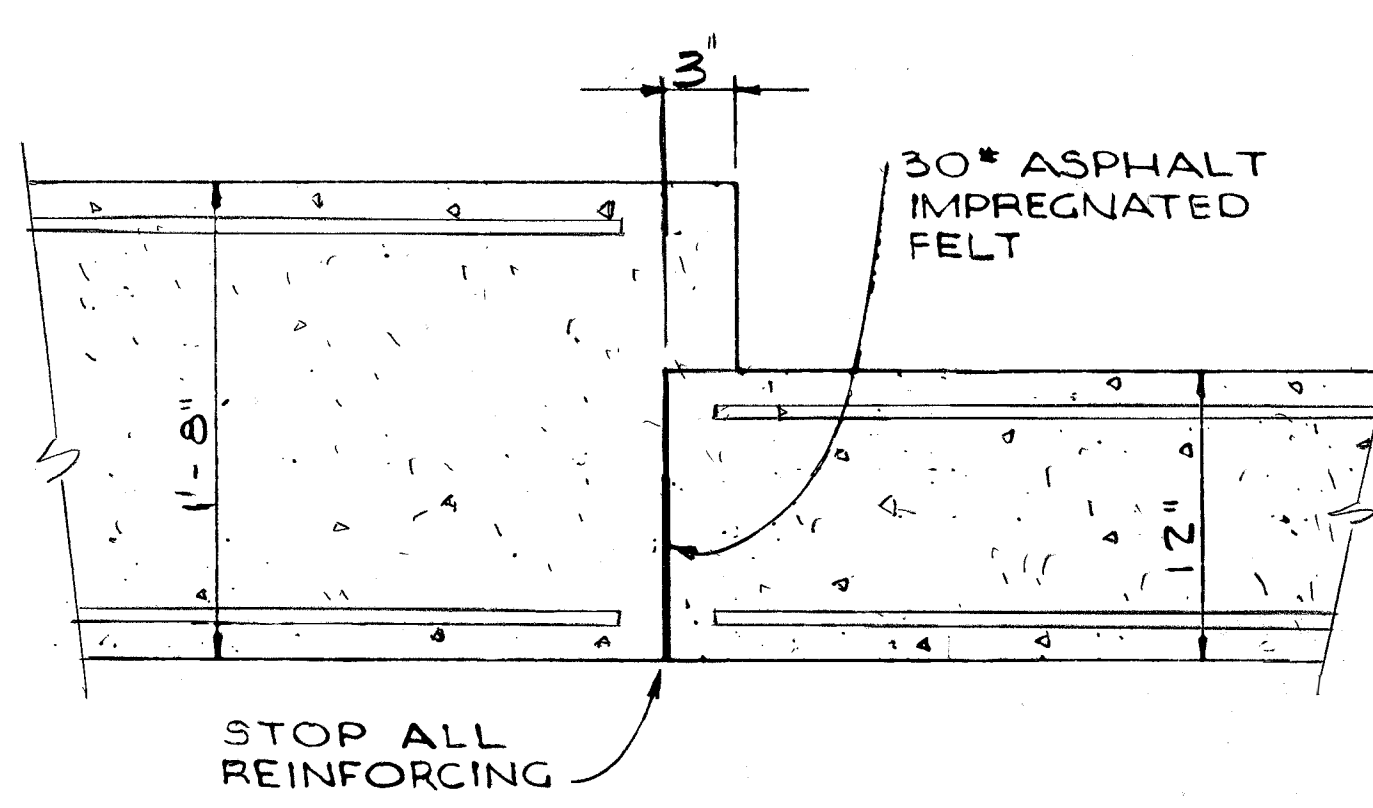
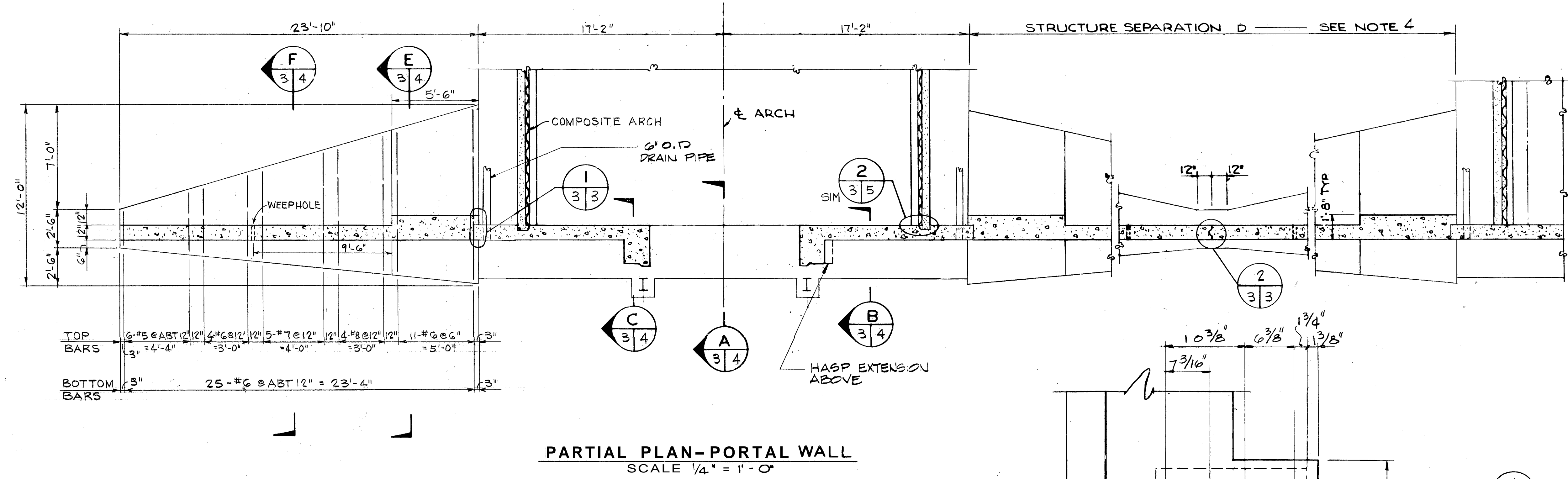


	DSGN / I.D. / CHK. E.B.M./R.M.F. SUPV. D.L.J. / CH. ENGR. D.L.J. SUBMITTED BY / DATE 10/14/88 TITLE / 1404392	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332
	NORTH BY / DATE SOUTH BY / DATE EAST BY / DATE WEST BY / DATE	STANDARD EARTH-COVERED OVAL COMPOSITE ARCH MAGAZINE CIVIL PLAN AND SECTIONS
NAVFAC 1404392 PFE 1-19-88	APPROVED / DATE 10/14/88 1-19-88	SCHEDULE AS NOTED SPEC. NFSS - M22 SHEET 2 OF 9

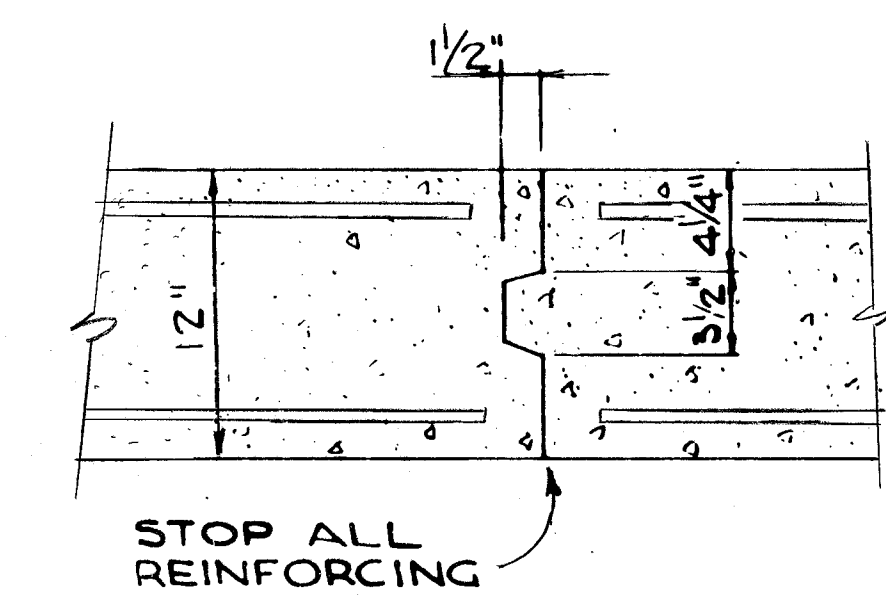
REVISIONS			
LTR	DESCRIPTION	PREP'D BY	DATE APPROVED



SECTION A-A
SCALE: 1/12" = 1'-0"

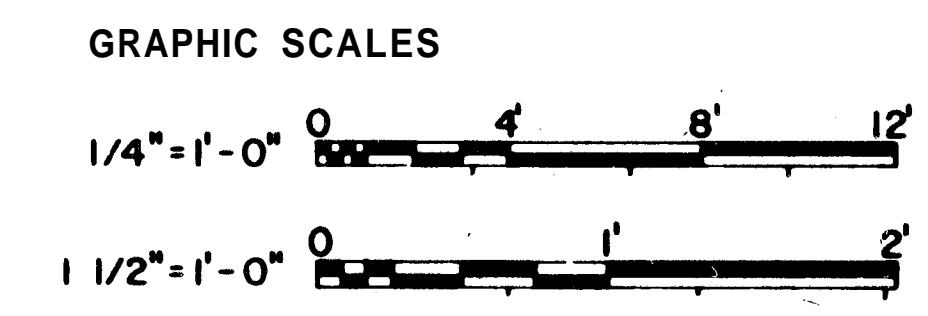
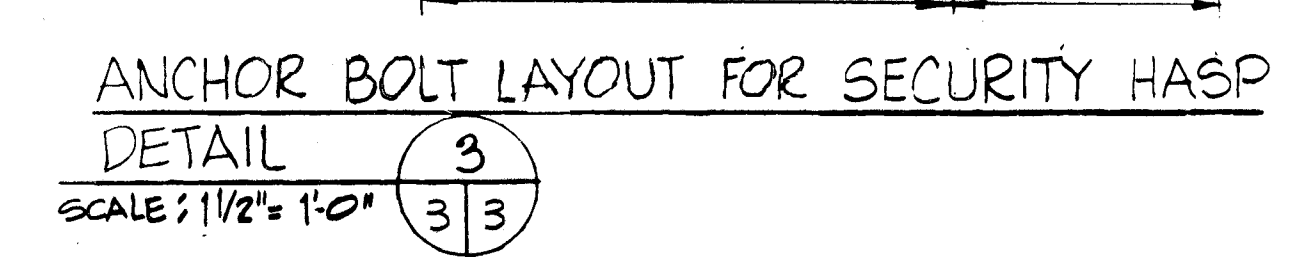


DETAIL 1
SCALE 1/2" = 1'-0"



DETAIL 2
SCALE 1/2" = 1'-0"

LOCKING MECHANISM
SEE OVAL ARCH
SLIDING DOOR SECURITY
HASP DETAIL,
NAVFAC DWG NO. 1404396



NOTE: CHECK GRAPHIC SCALES BEFORE USING

- NOTES**
1. DEPTH OF FOOTINGS WILL BE INCREASED IF REQUIRED BY SOIL OR FROST CONDITIONS.
 2. FOOTINGS ARE SIZED FOR A SOIL BEARING VALUE OF 4,000 PSF.
 3. SOIL INVESTIGATION WILL BE USED TO DETERMINE IF SOIL CONDITIONS REQUIRE MODIFICATIONS OF STANDARD DESIGN.
 4. $D = 1.25 W^{1/3}$
D = MINIMUM SEPARATION IN FEET
1.25 = CONSTANT
W = EQUIVALENT WEIGHT OF TNT IN POUNDS

CHECK GRAPHIC SCALES BEFORE USING

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
200 STOVALL STREET ALEXANDRIA, VA. 22332

STANDARD
EARTH-COVERED OVAL COMPOSITE ARCH MAGAZINE
STRUCTURAL
PORTAL WALLS, PLAN, ELEV. & DETAILS

SIZE CODE IDENT. NO. NAVFAC DRAWING NO.
F 80091 1404392

SCALE AS NOTED SPEC. NFSS - M22 SHEET 3 OF 9

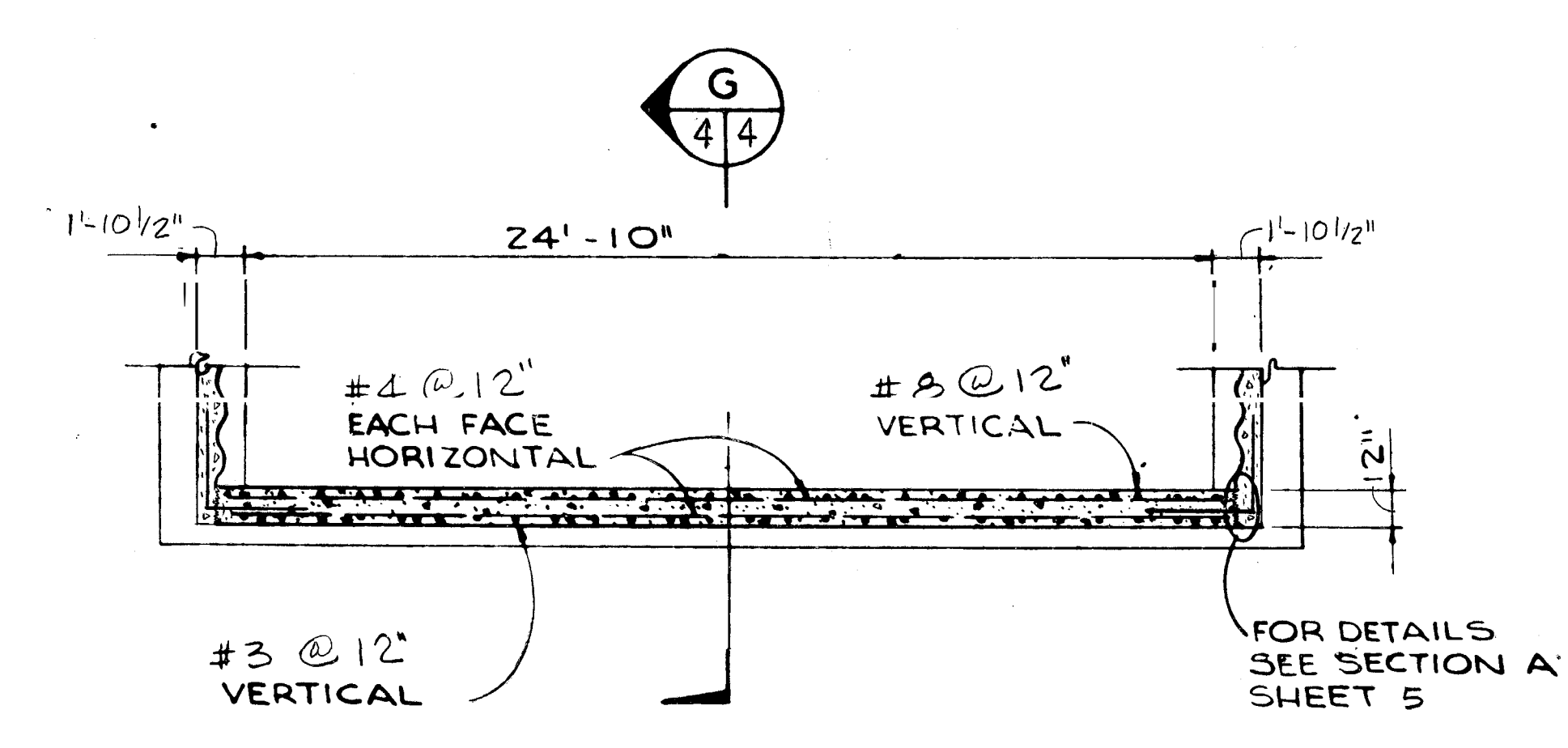
DESIGN AND DR. CHK. 3/3/64
SUPV. DLT. CH. ENGR. DLT.
SUBMITTED BY VP 10/24/63
DATE 10/24/63
TITLE PORTAL WALLS, PLAN, ELEV. & DETAILS
DRAWN BY
DTC

NAVFAC: RVD. 10/24/63
DATE 10/24/63
FPE: 3/3/64

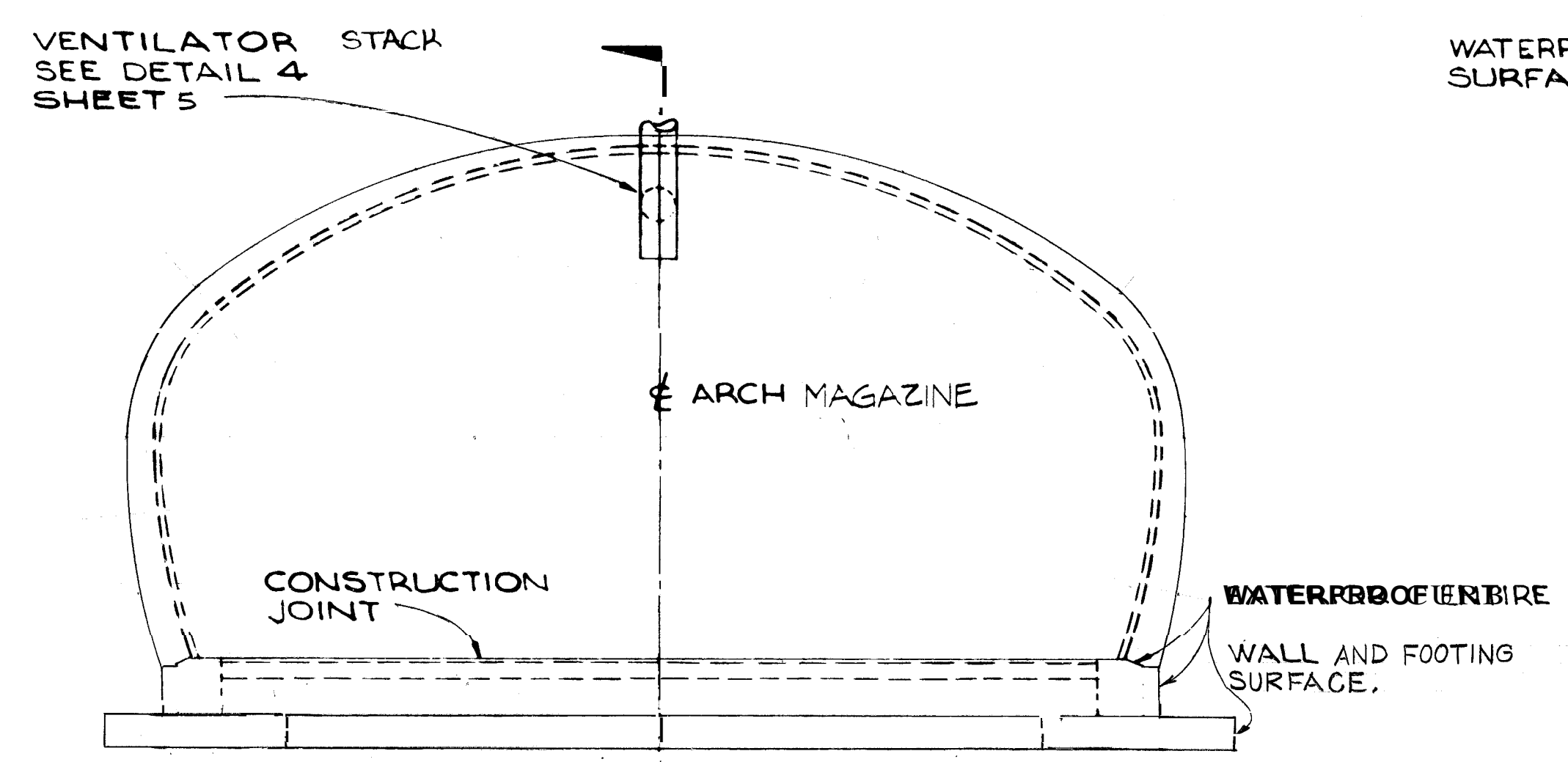
SATISFACTORY TO DDESB DATE 1-14-66
APPROVED

STANDARD DRAWING:
Oval Composite Arch Magazine
Structural/Portal Walls, Plan, Elev. & Details

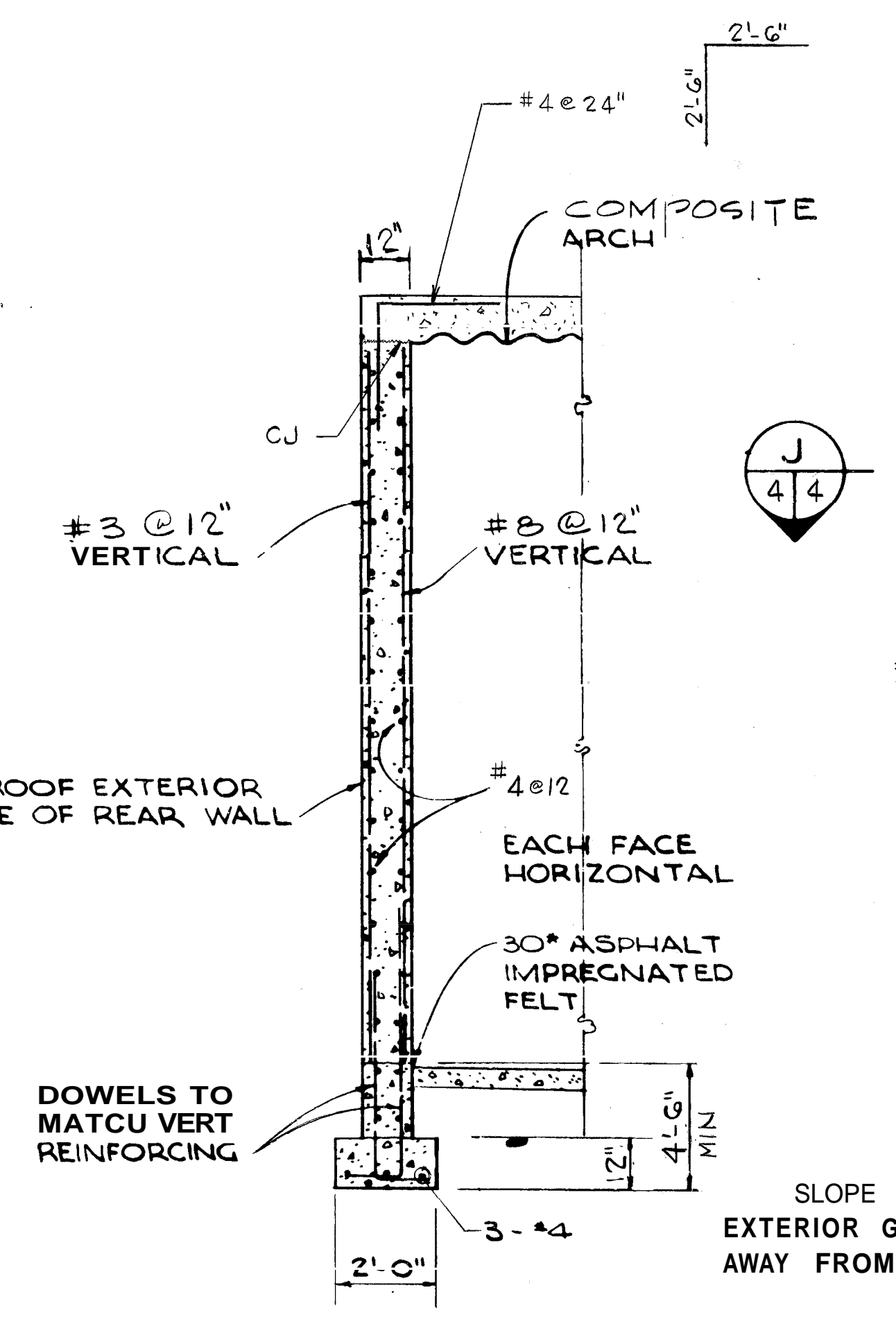
REVISIONS		
LTR	DESCRIPTION	PREP'D BY/DATE APPROVED



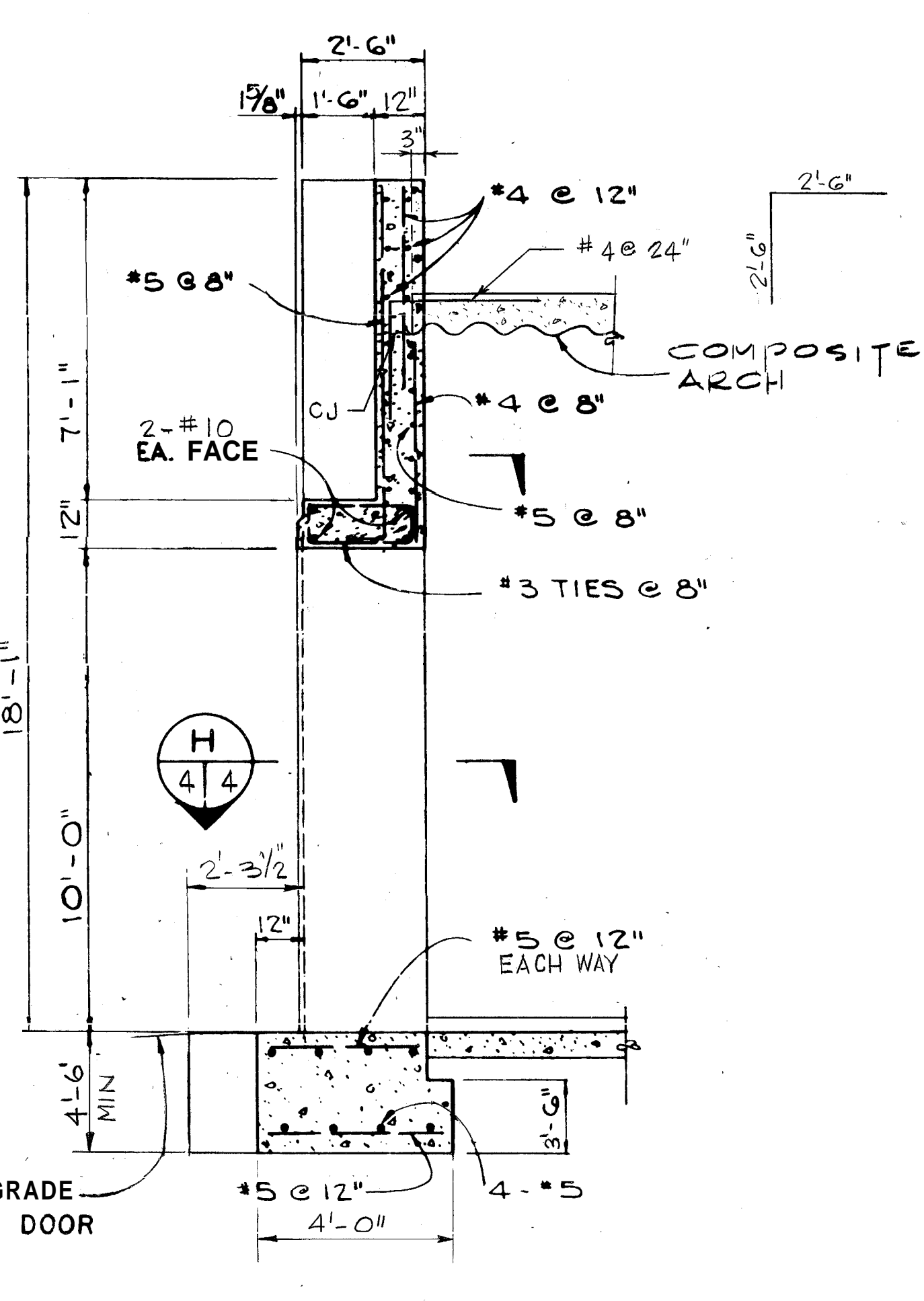
PLAN-REAR WALL
SCALE 1/4" = 1'-0"



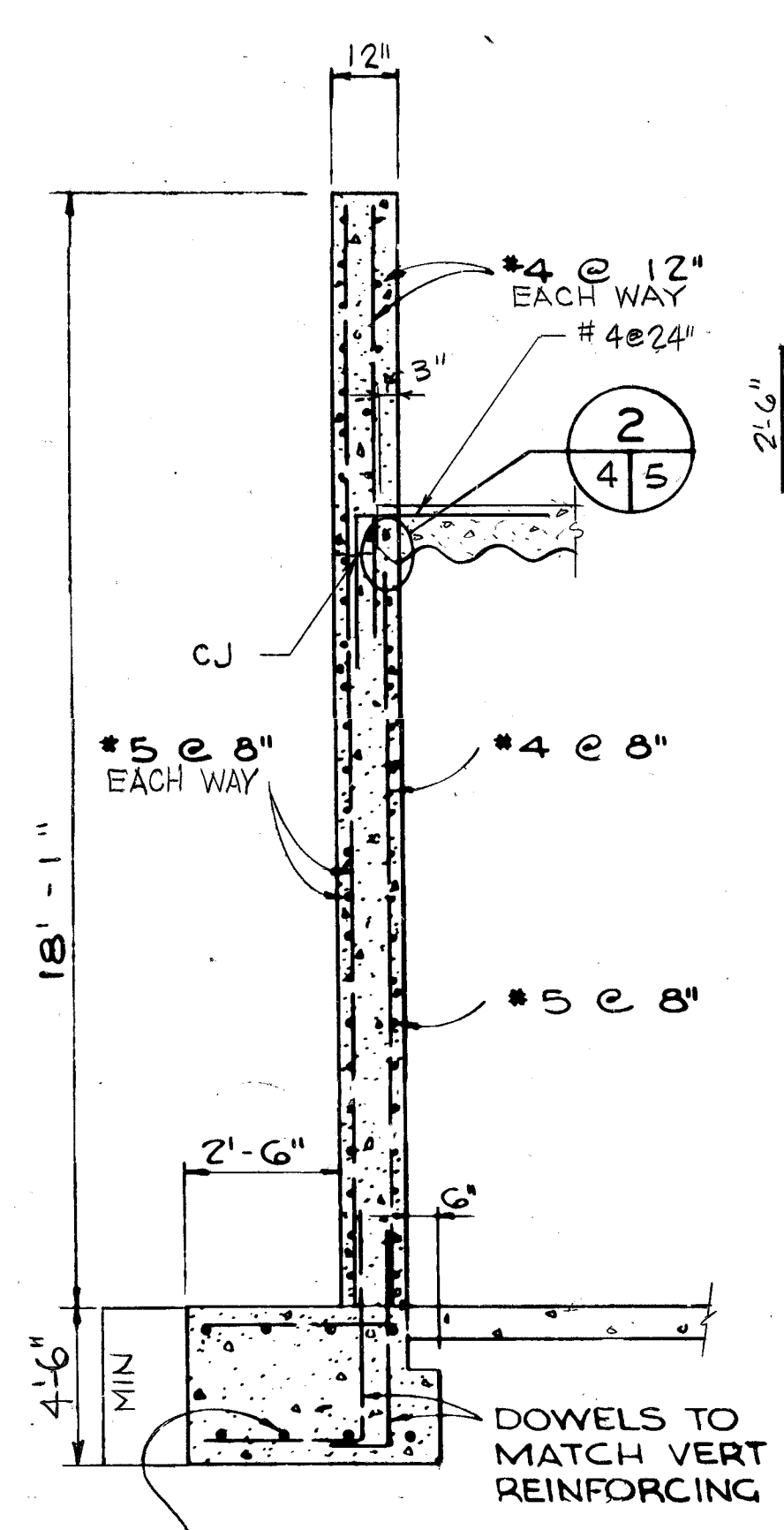
ELEVATION-REAR WALL
SCALE 1/4" = 1'-0"



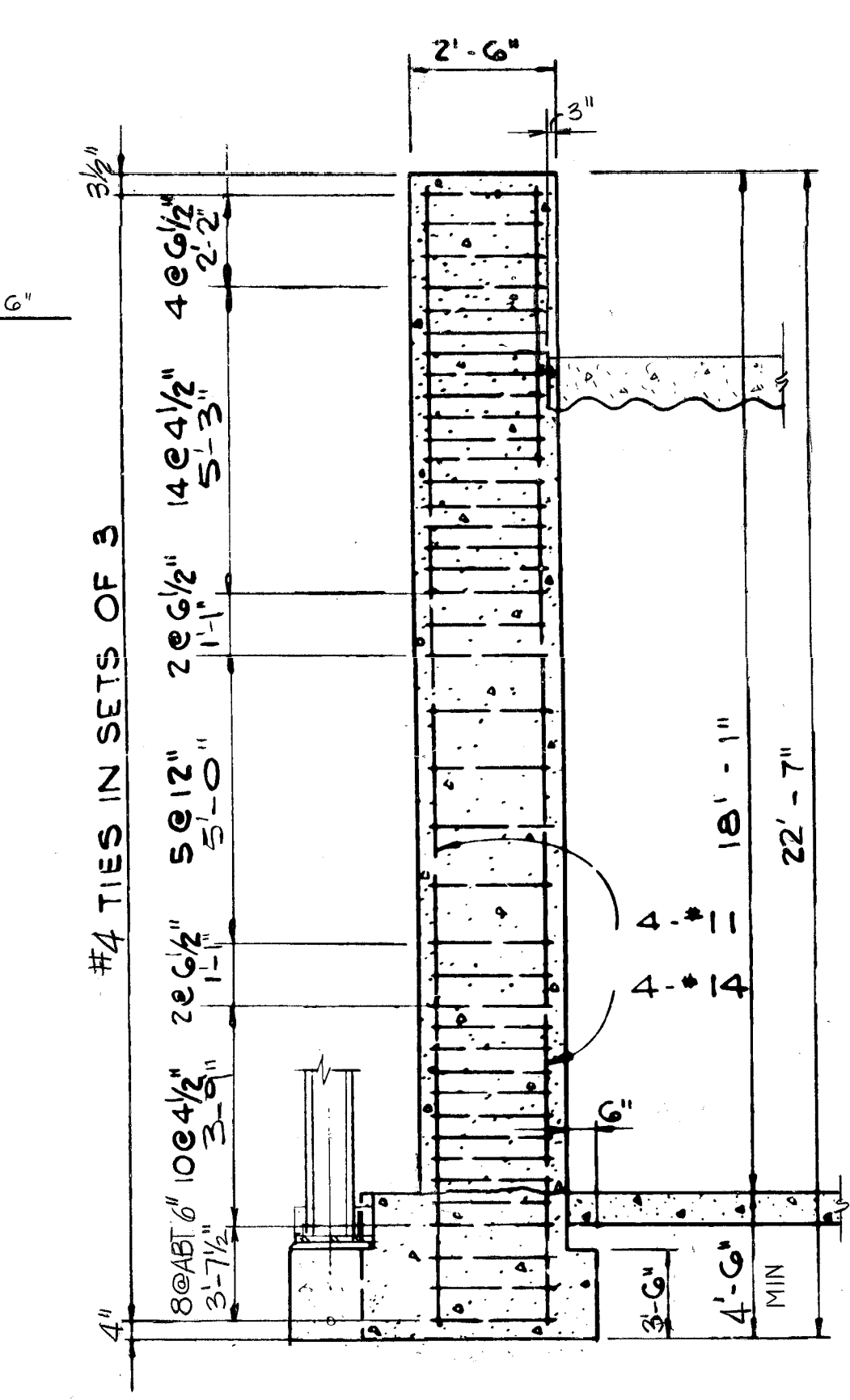
SECTION G
SCALE 3/8" = 1'-0"



SECTION A
SCALE 3/8" = 1'-0"

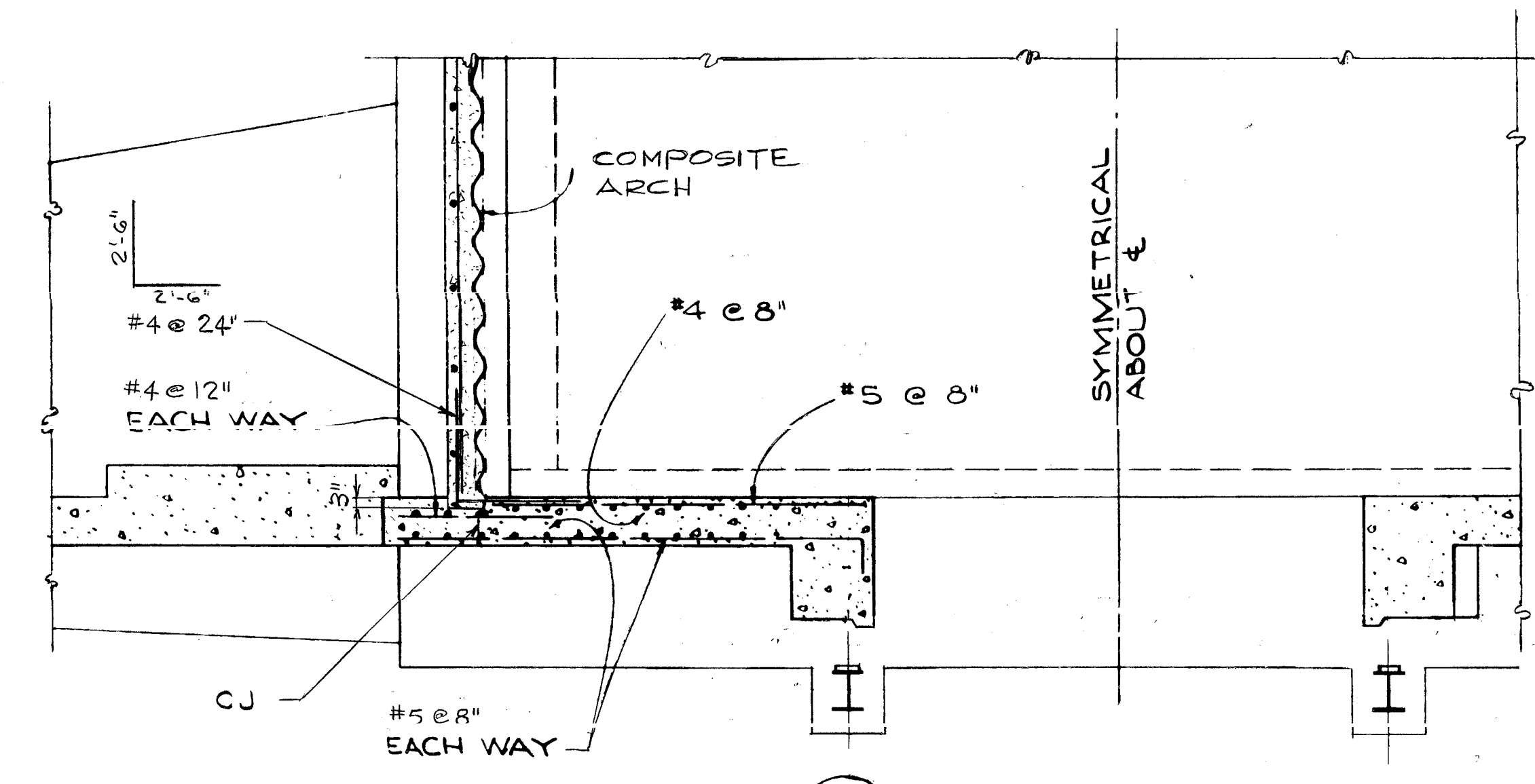


SECTION B
SCALE 3/8" = 1'-0"

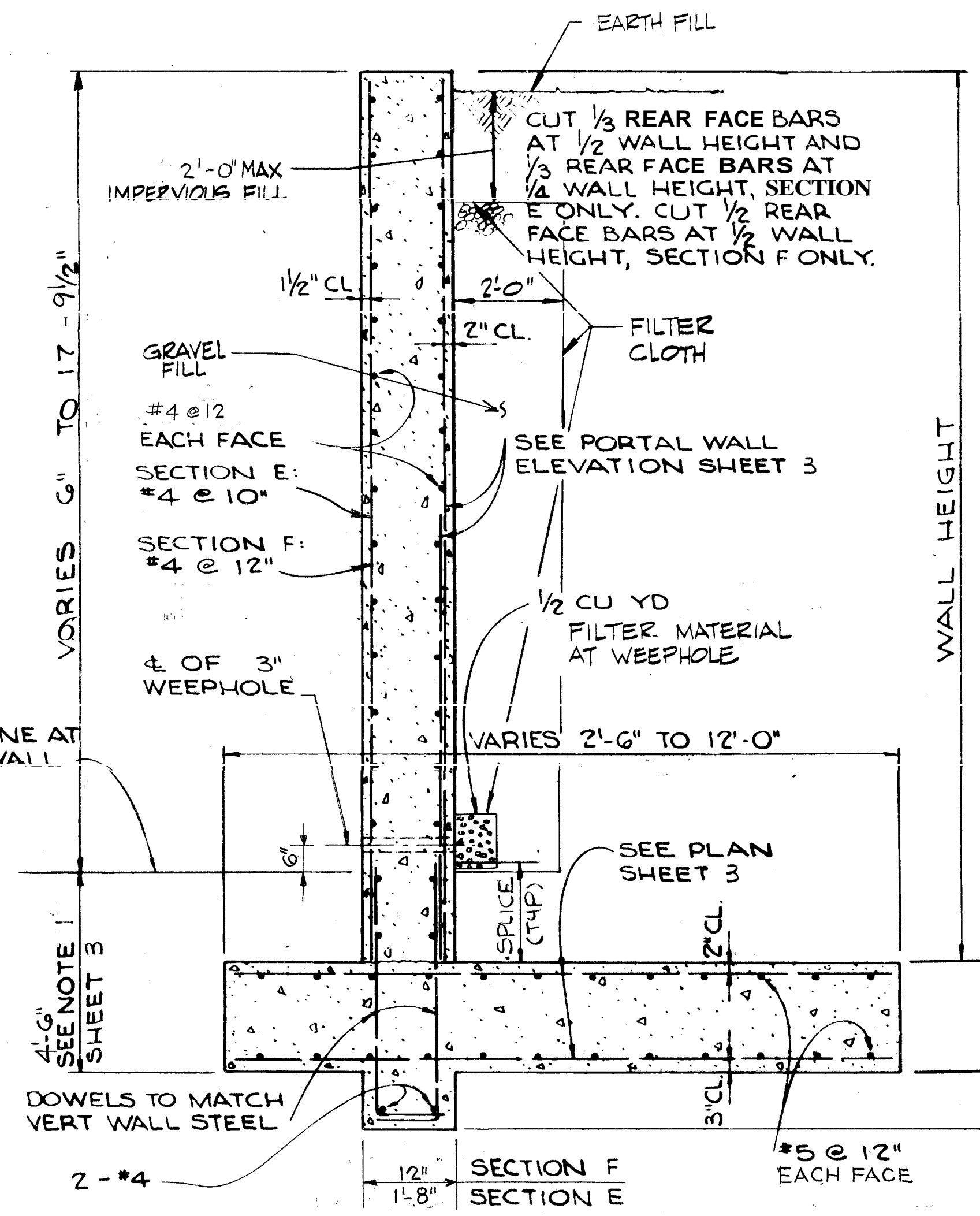


SECTION C
SCALE 3/8" = 1'-0"

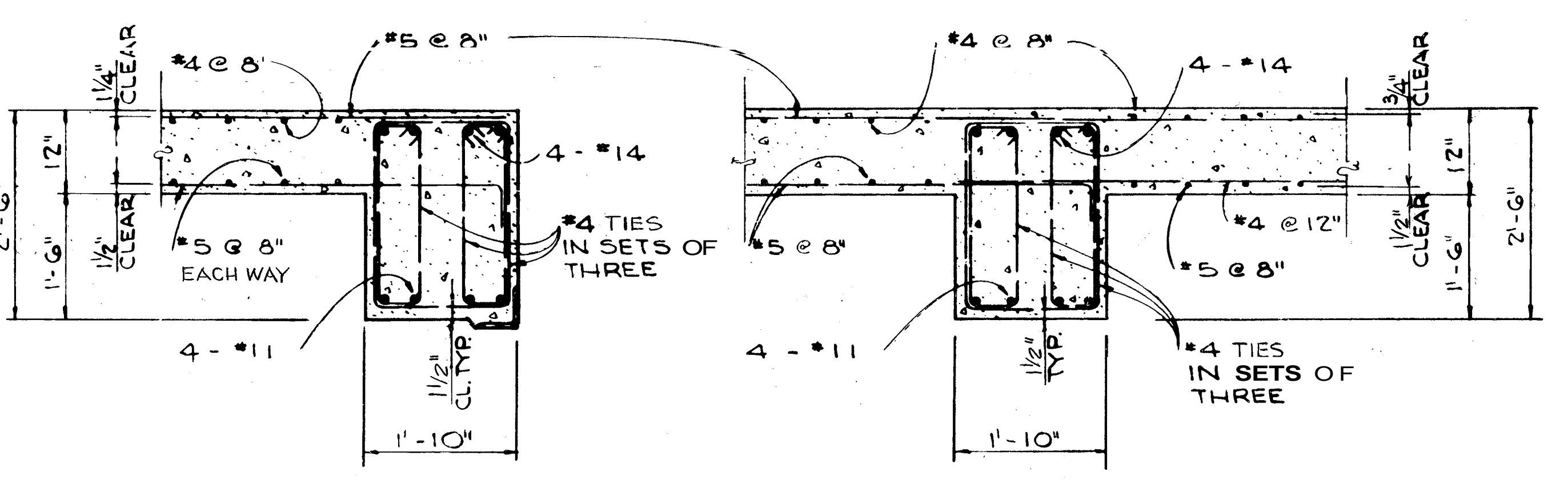
SEE SECT. A THIS SH FOR CONT. FTG. REINF. SEE (C) (6) FOR ADDED REBOUND RESTRAINT



SECTION D
SCALE 3/8" = 1'-0"



SECTION E & F
SCALE 1/2" = 1'-0"



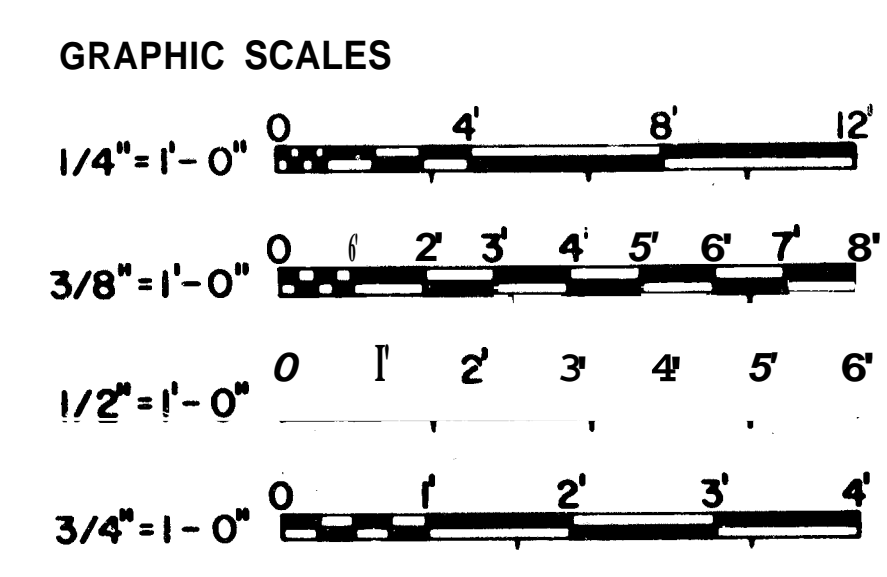
SECTION H
SCALE 3/4" = 1'-0"

SECTION J
SCALE 3/4" = 1'-0"

REINFORCEMENT SPLICE LENGTHS		
BAR SIZE	SPLICE LENGTH (MIN)	
	LAP	S > 6
# 4	20"	16"
# 5	26"	20"
# 6	32"	24"
# 7	39"	31"
# 8	51"	41"
# 9	65"	52"
# 10	82"	65"
# 11	101"	81"

NOTE: MINIMUM LAP SPLICES FOR REINFORCING BARS SHALL BE AS TABULATED IN TABLE ABOVE

REF. - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-83)
S = SPACING BETWEEN PARALLEL BARS (CENTER-TO-CENTER)
< LESS THAN
≥ GREATER THAN OR EQUAL TO

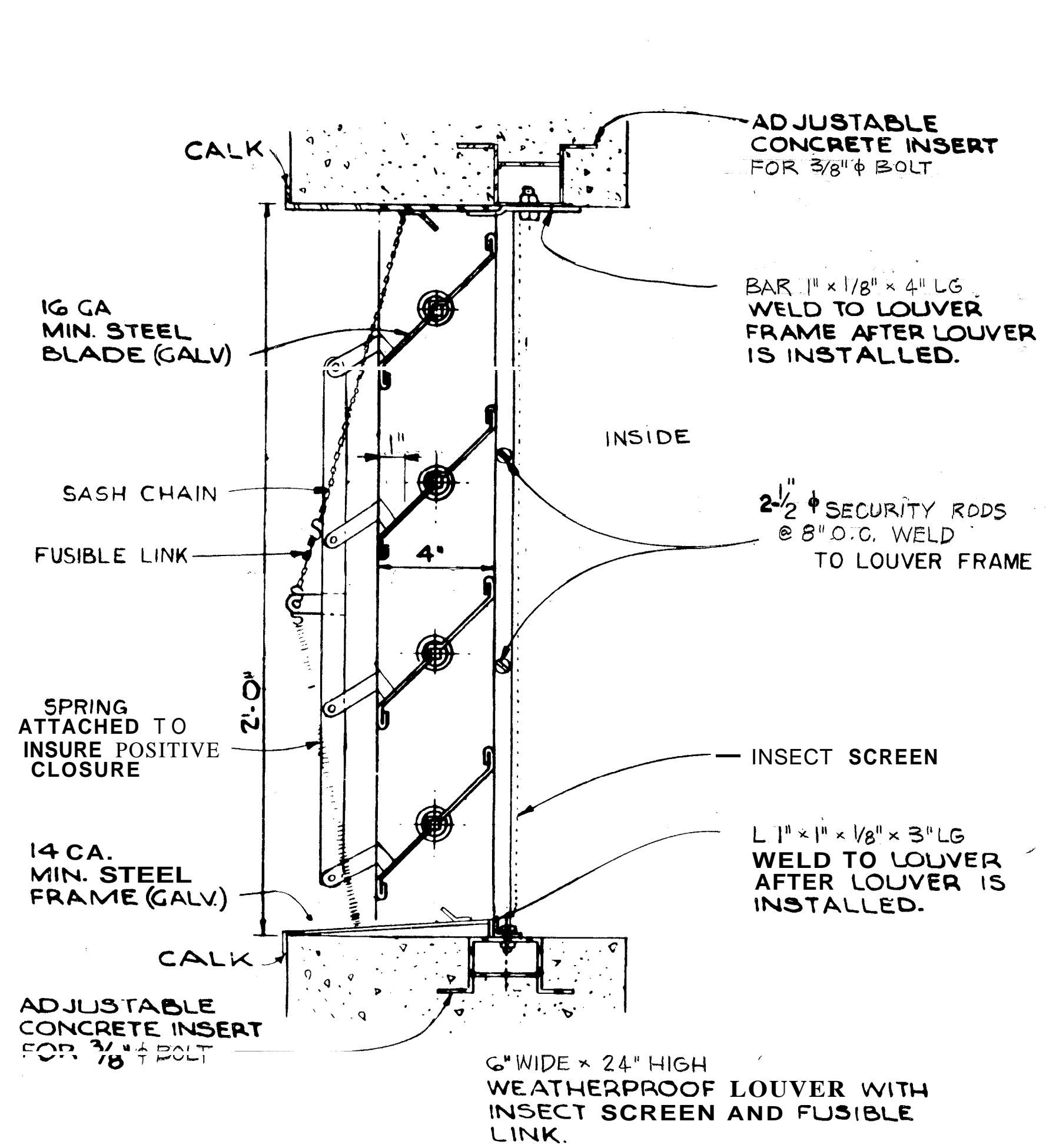


SPLICE LENGTH (K)
24

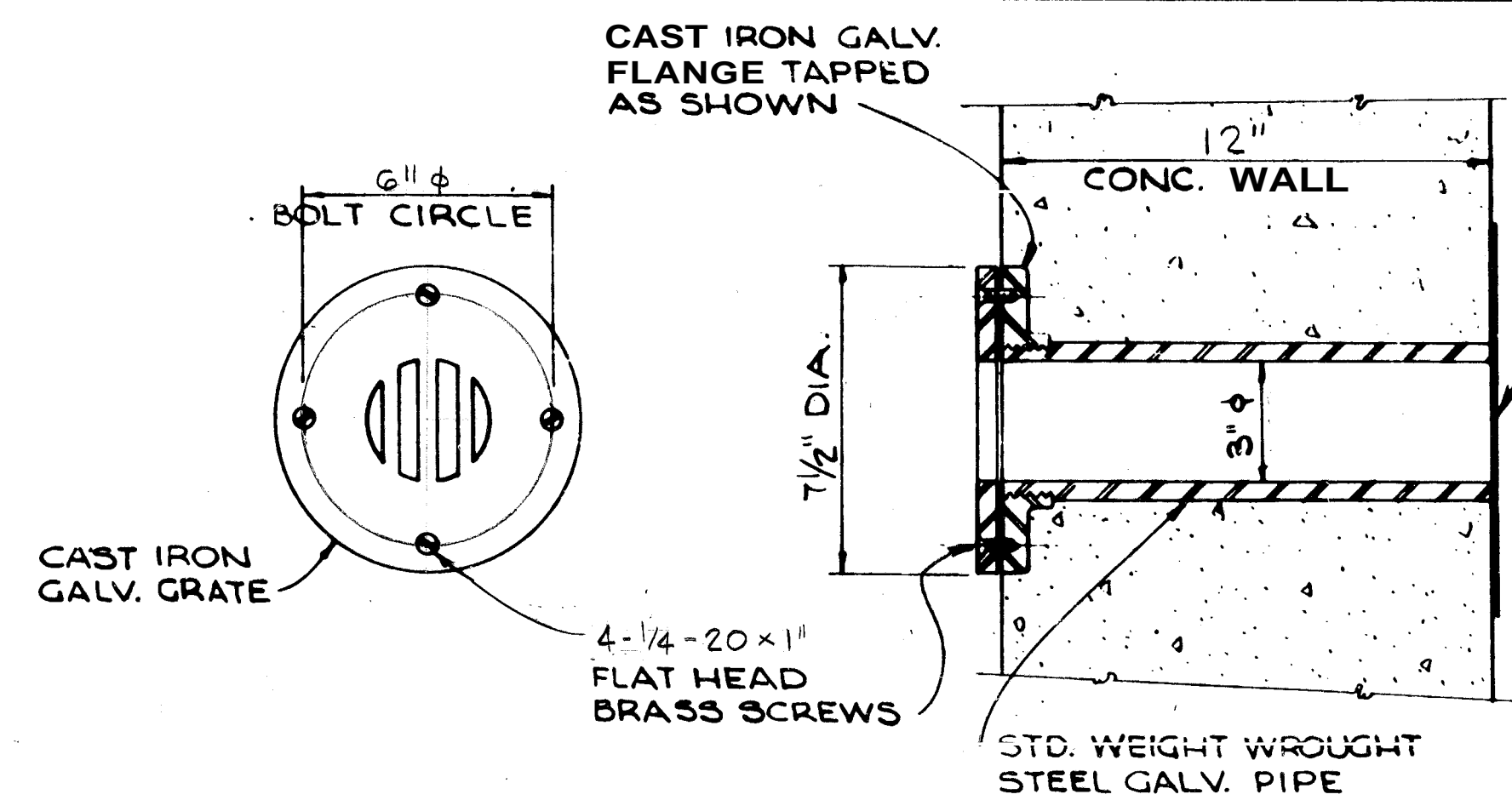
CHECK GRAPHIC SCALES BEFORE USING

	DSGN BY: [Signature] SUPV: DLJ SUBMITTED BY: [Signature] DATE: 10/14/84	CHK'D BY: [Signature] DATE: 10/14/84	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332	
	STANDARD EARTH-COVERED OVAL COMPOSITE ARCH MAGAZINE STRUCTURAL REAR WALLS, PLAN, ELEV. & SECTIONS		NAVFAC DRAWING NO. 1404393	
	NAVFAC: 1012/84 DATE: 1-14-86	RVD: [Signature] DATE: 10/14/84	SIZE: F CODE IDENT. NO.: 80091	CONSTR. CONTR. NO.
	SATISFACTORY TO DDESB		SCALE AS NOTED	SPEC. NFSS - M22 SHEET 4 OF 9

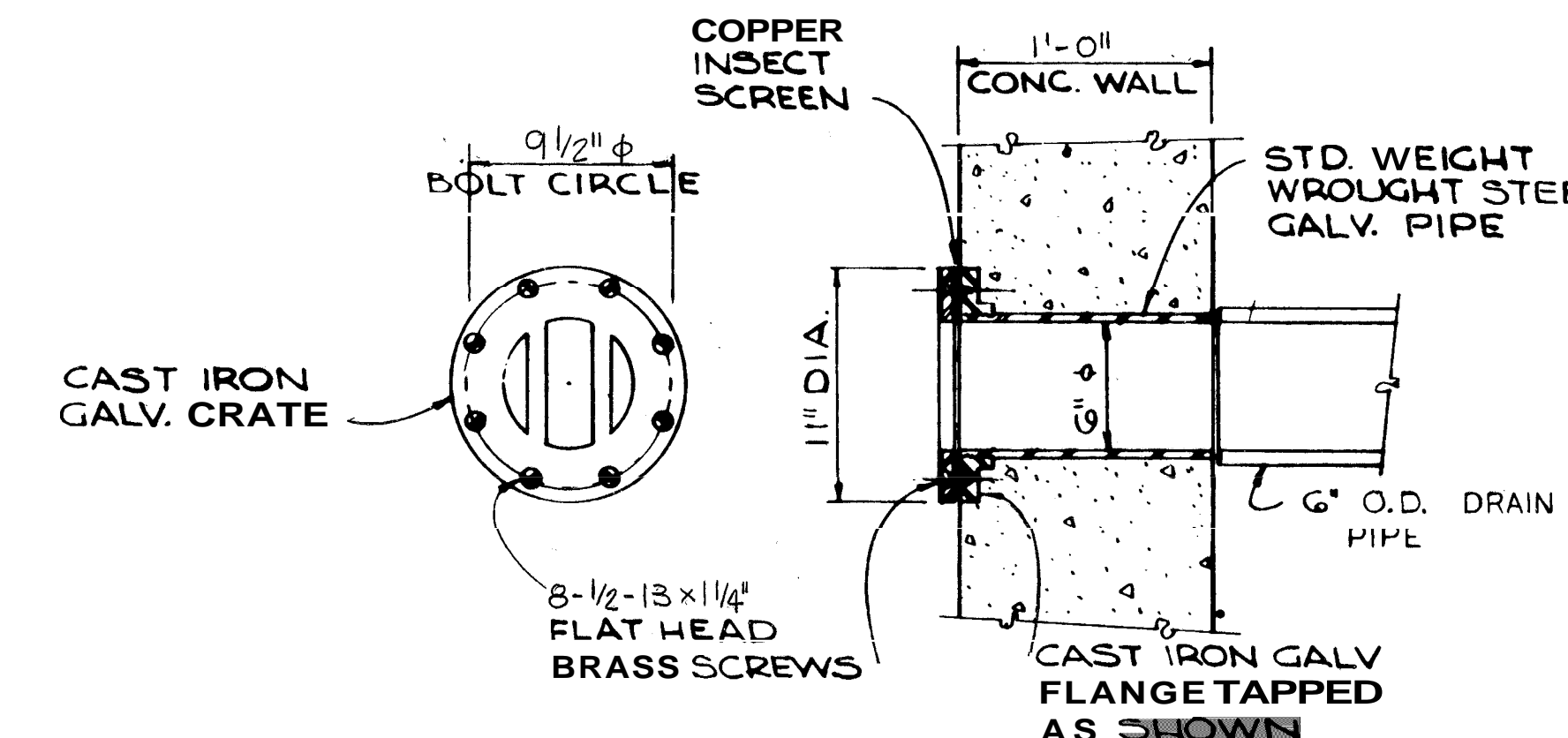
REVISIONS			
LTR	DESCRIPTION	PREP'D BY	DATE APPROVED



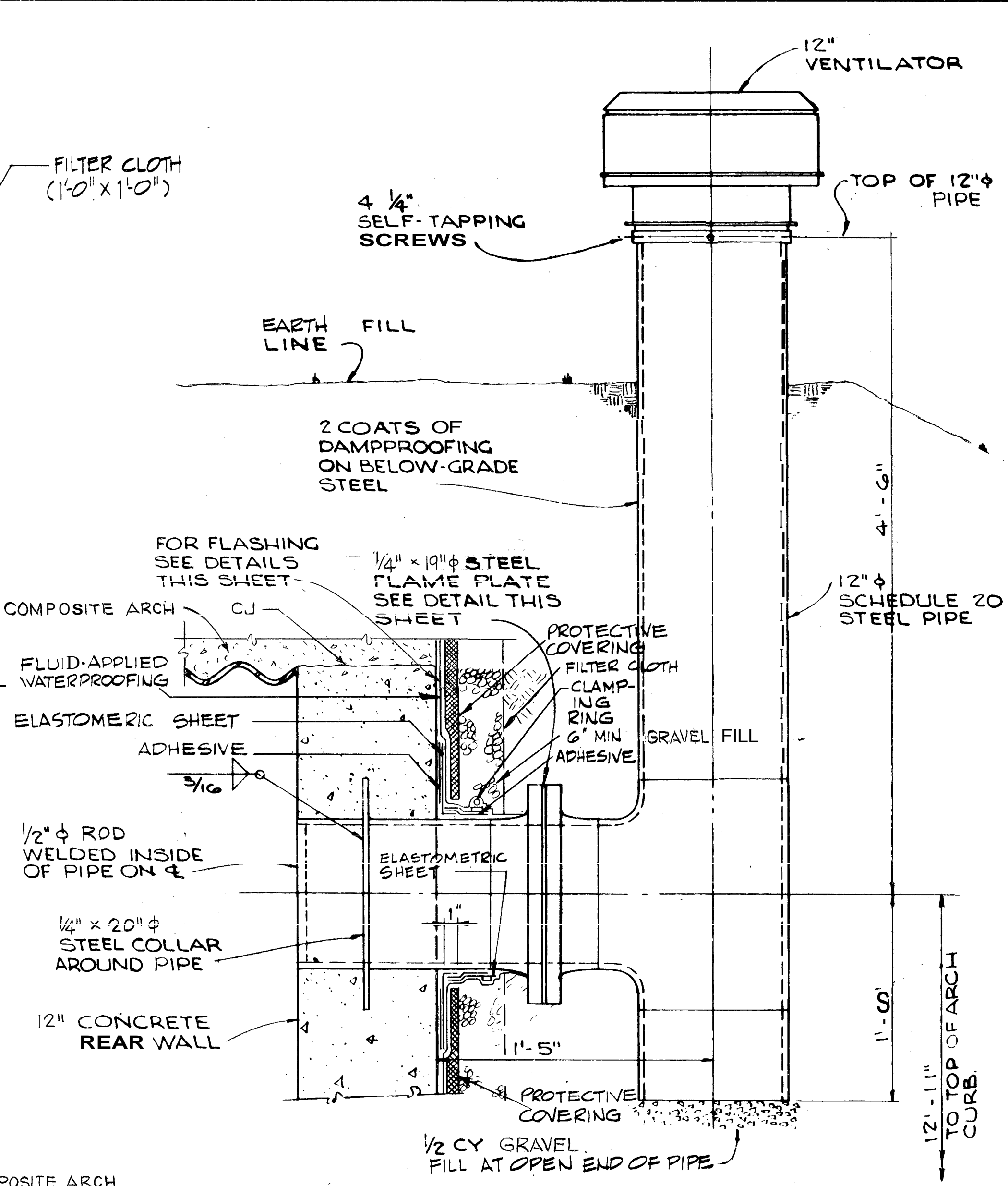
LOUVER DETAIL
SCALE 3" = 1'-0"



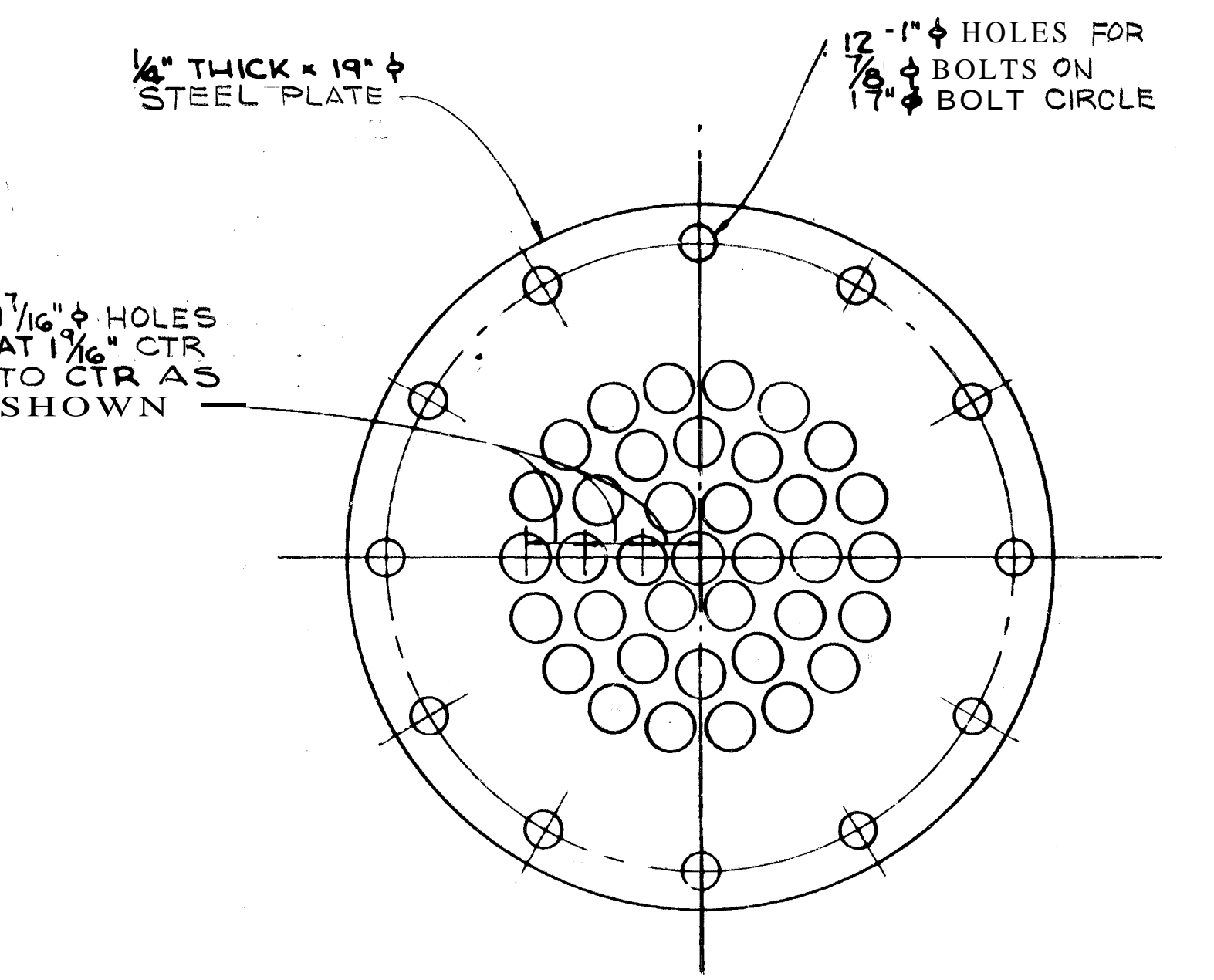
SCALE 3" = 1'-0" 3/5



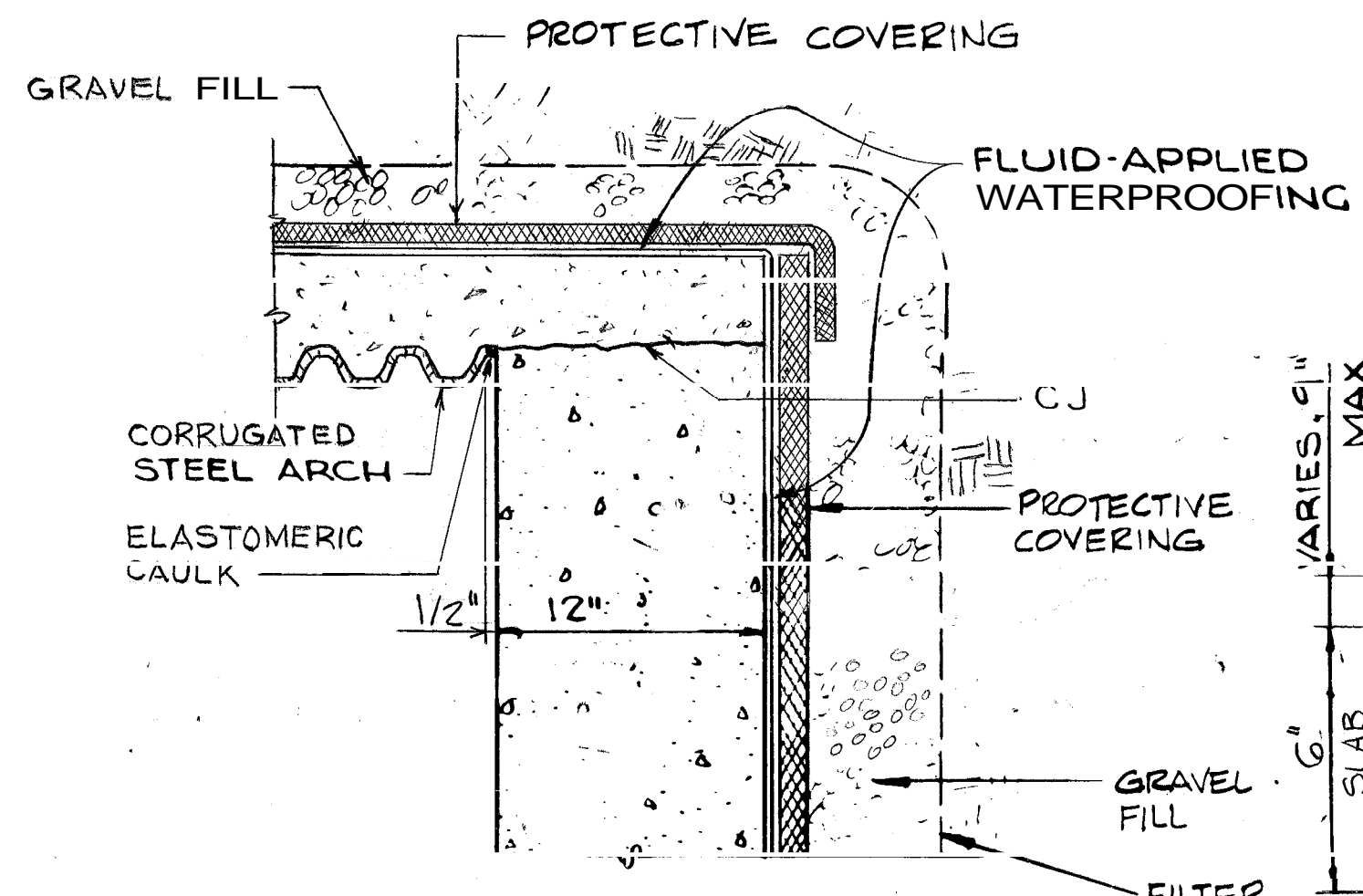
DETAIL 6
SCALE 1 1/2" = 1'-0" 3/5



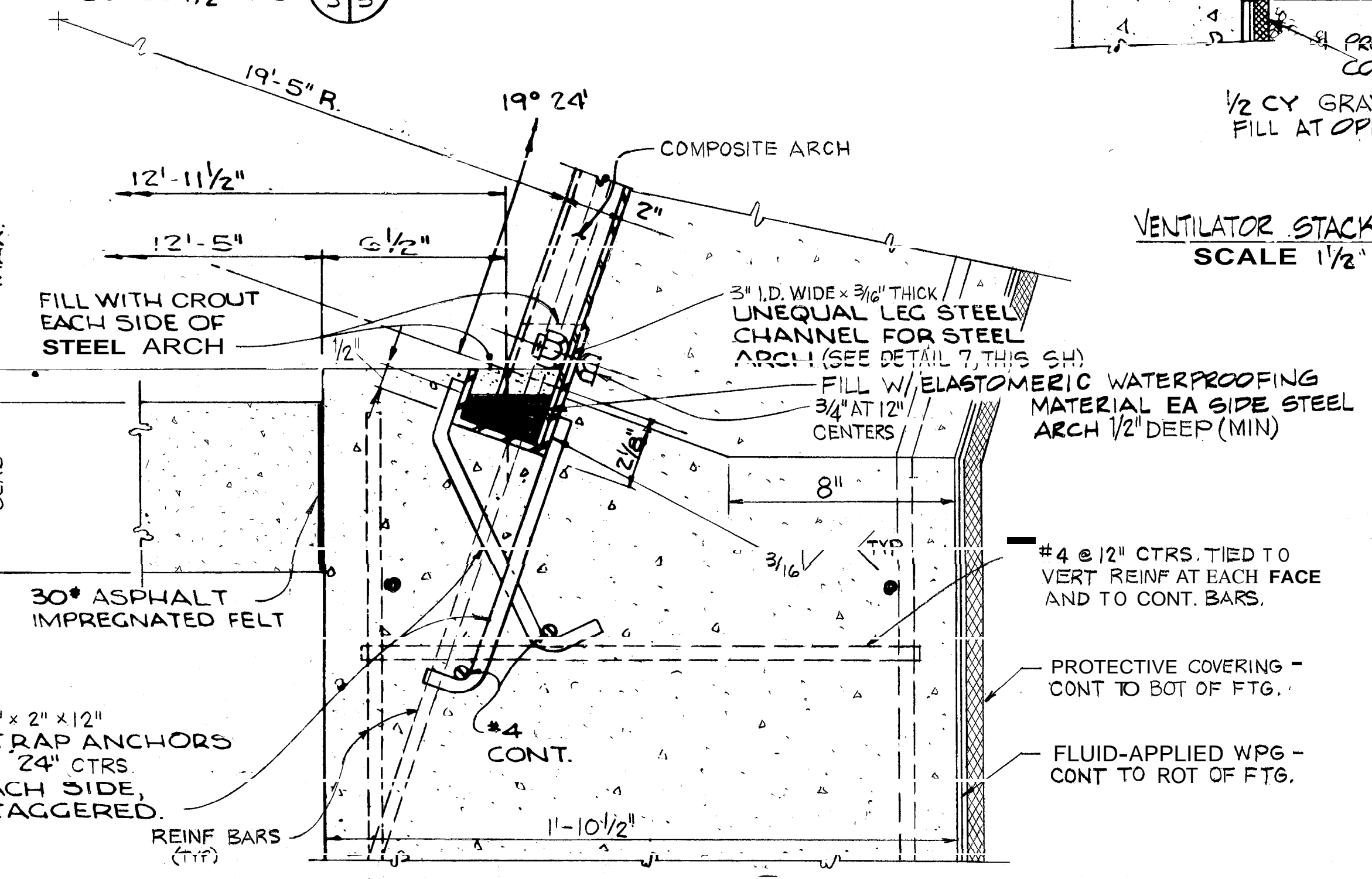
VENTILATOR STACK DETAIL 4
SCALE 1 1/2" = 1'-0" 2/5



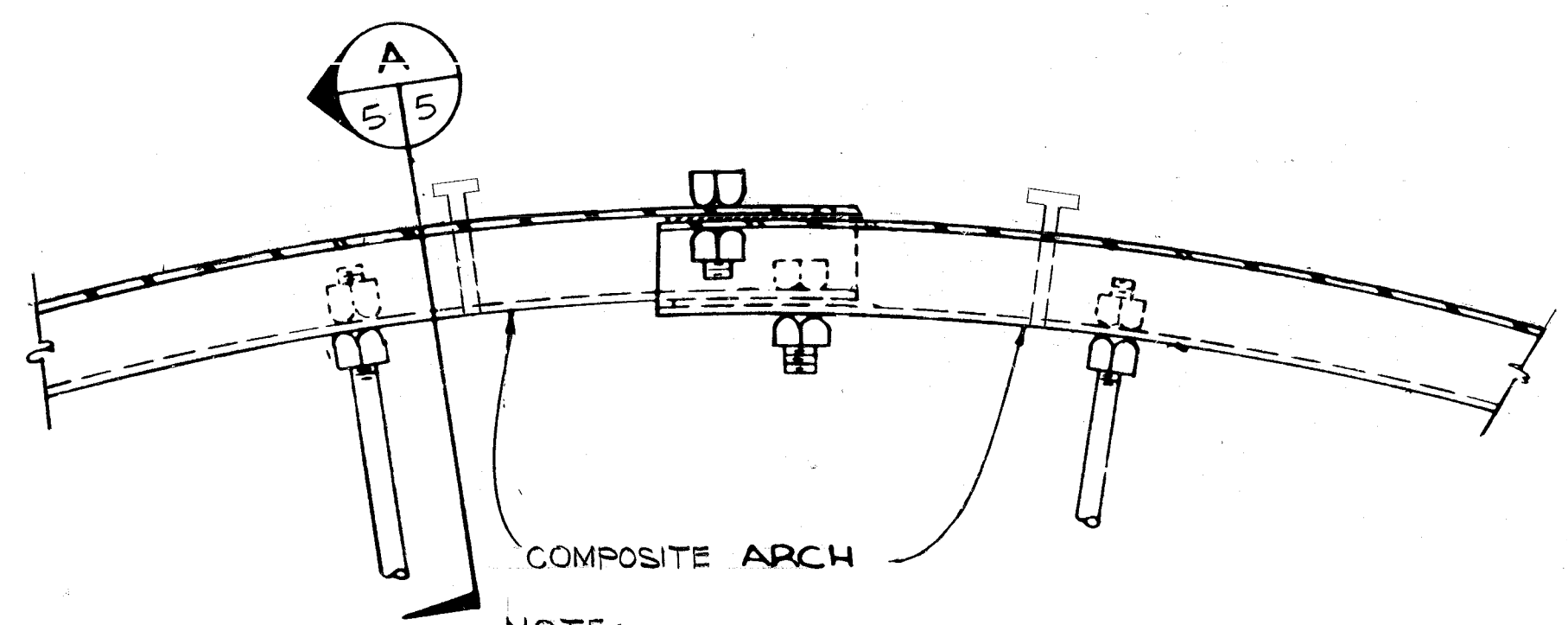
VENTILATOR STACK FLAME PLATE DETAIL
SCALE 3" = 1'-0"



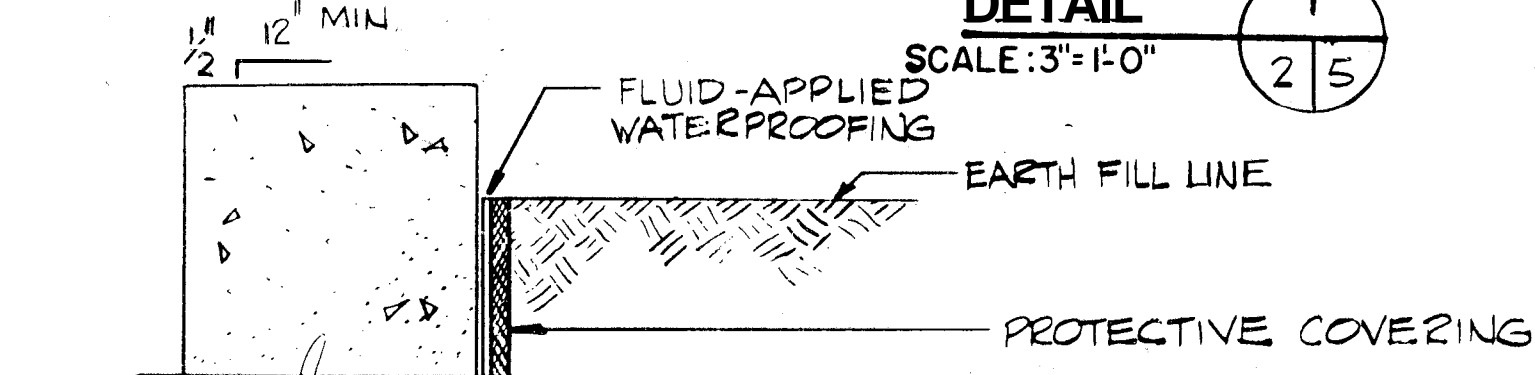
SECTION A
SCALE 1 1/2" = 1'-0" 5/5



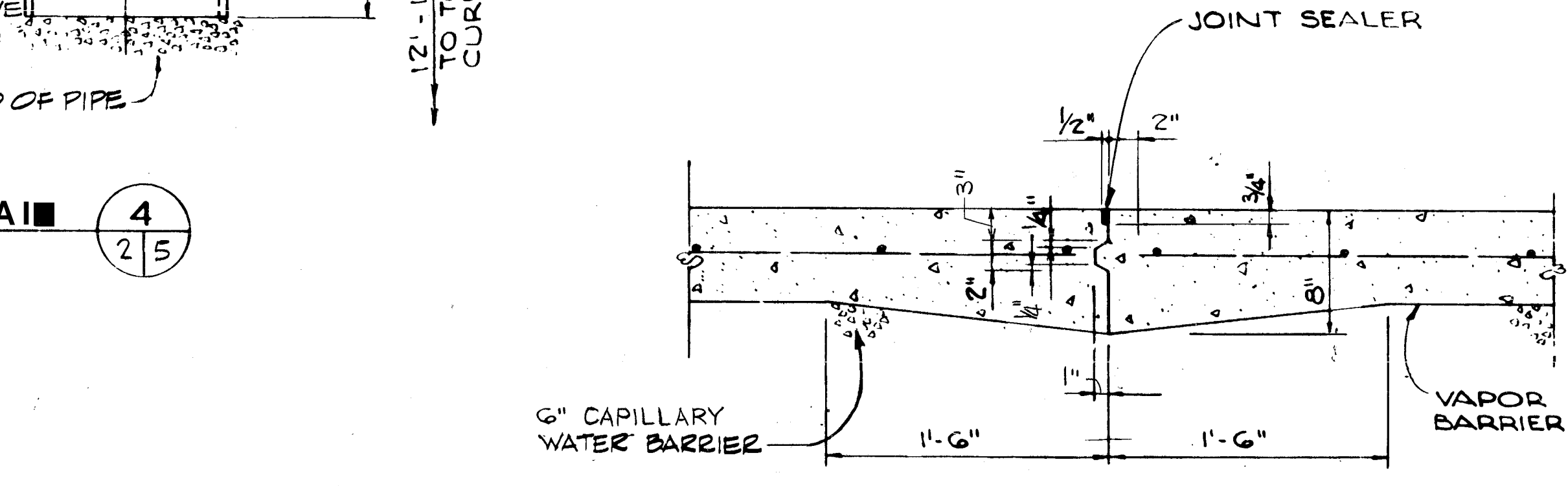
DETAIL 1
SCALE 3" = 1'-0" 2/5



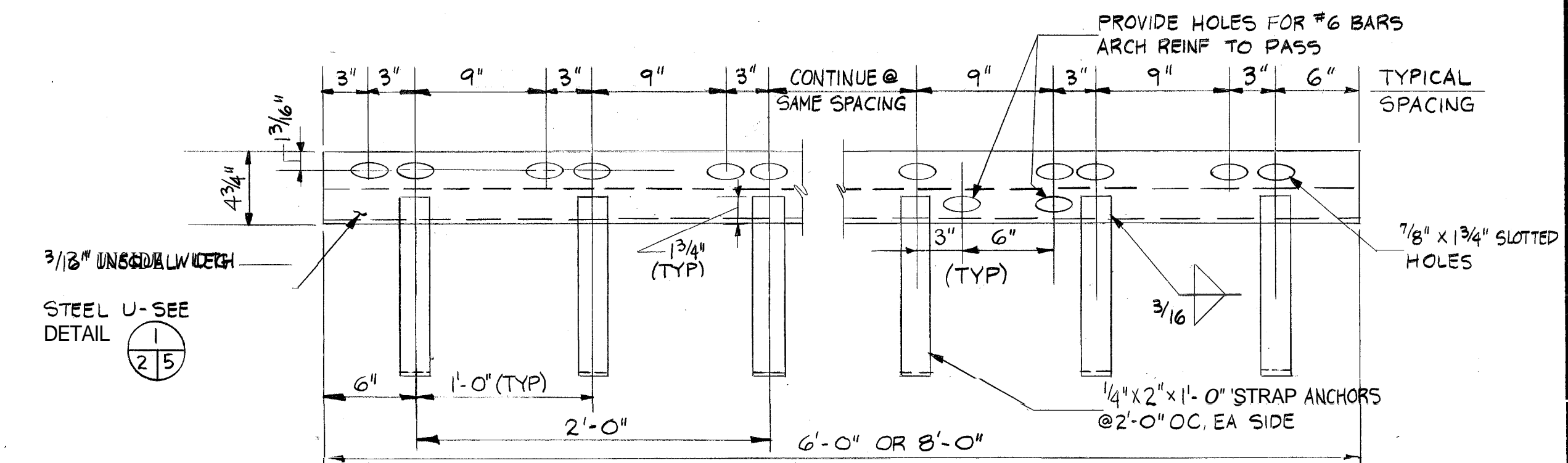
DETAIL 3
NO SCALE 2/5



DETAIL 2
SCALE 1 1/2" = 1'-0" 1/5

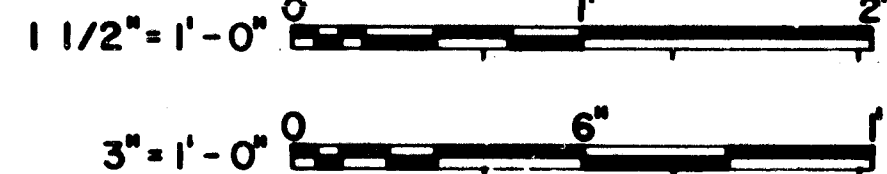


FLOOR CONSTRUCTION JOINT
NO SCALE



DETAIL 7
SCALE 1 1/2" = 1'-0" 5/5

GRAPHIC SCALES
1 1/2" = 1'-0"
3" = 1'-0"

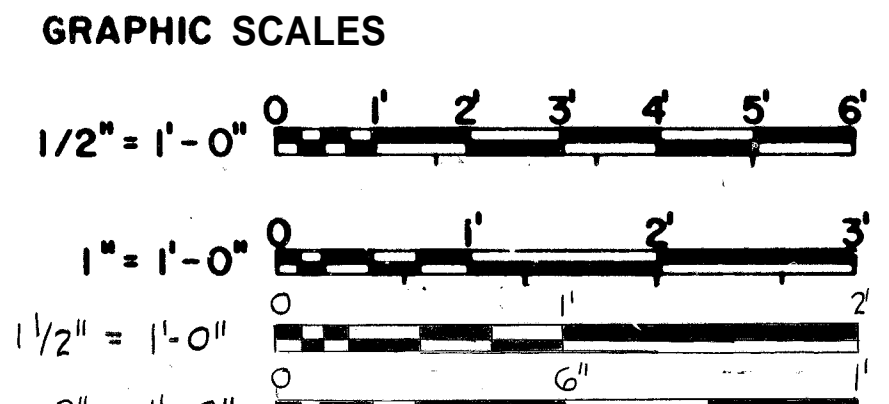
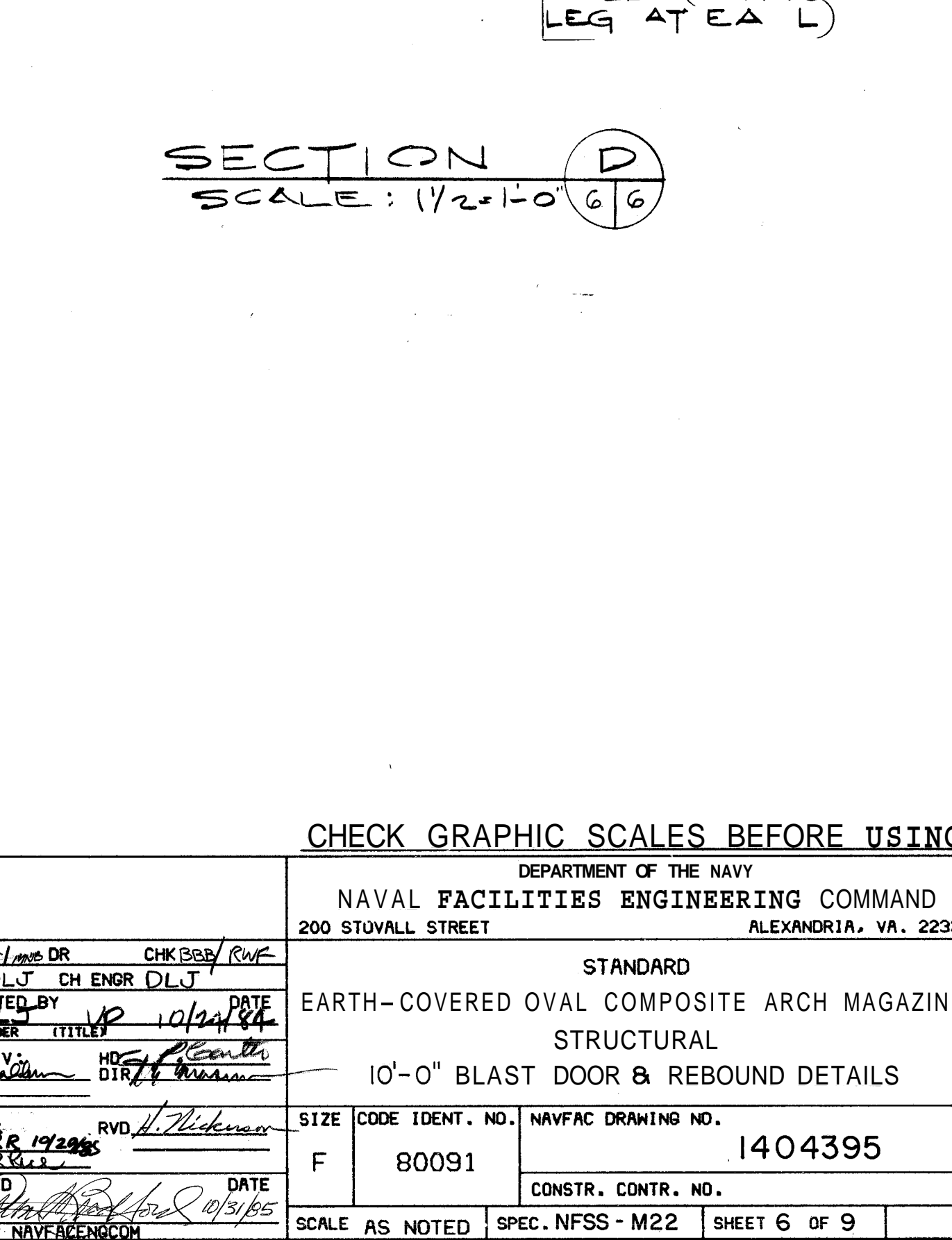
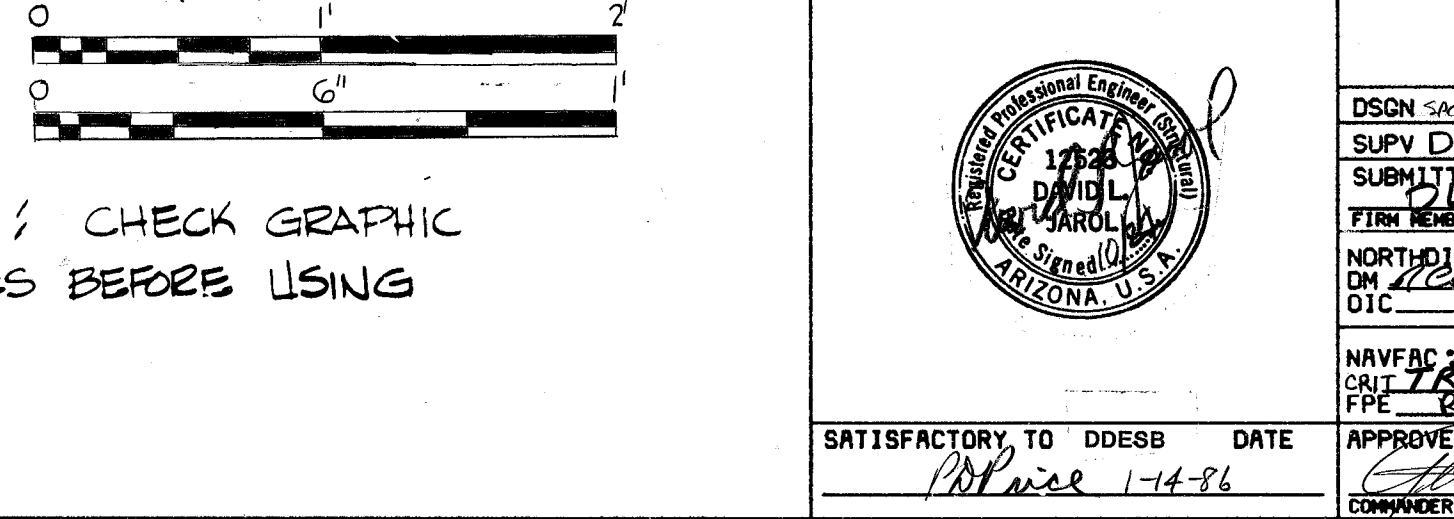
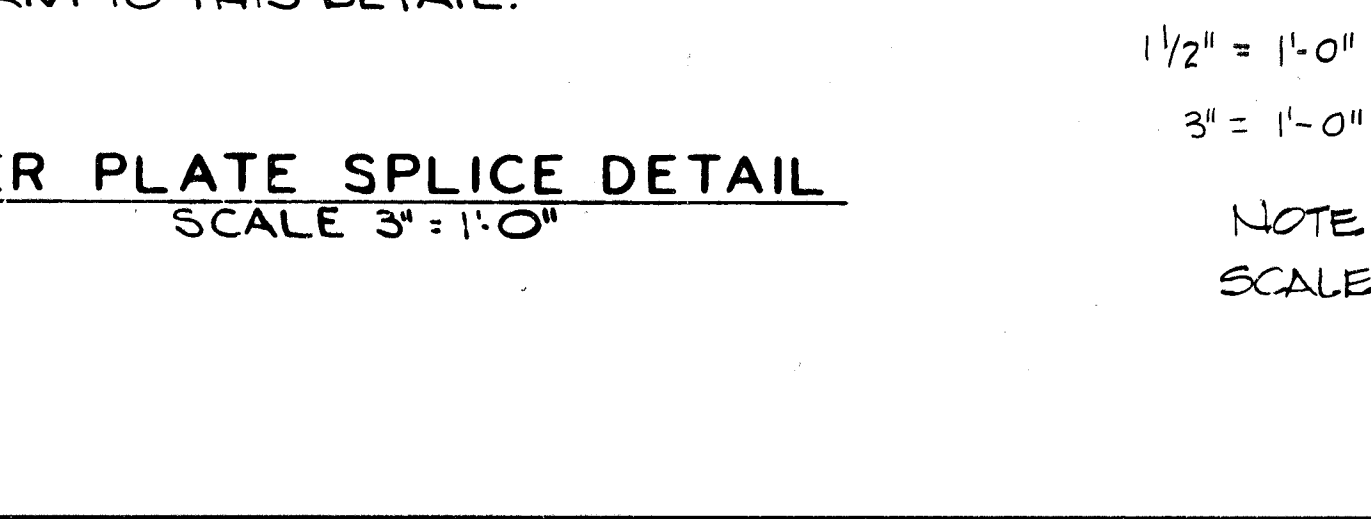
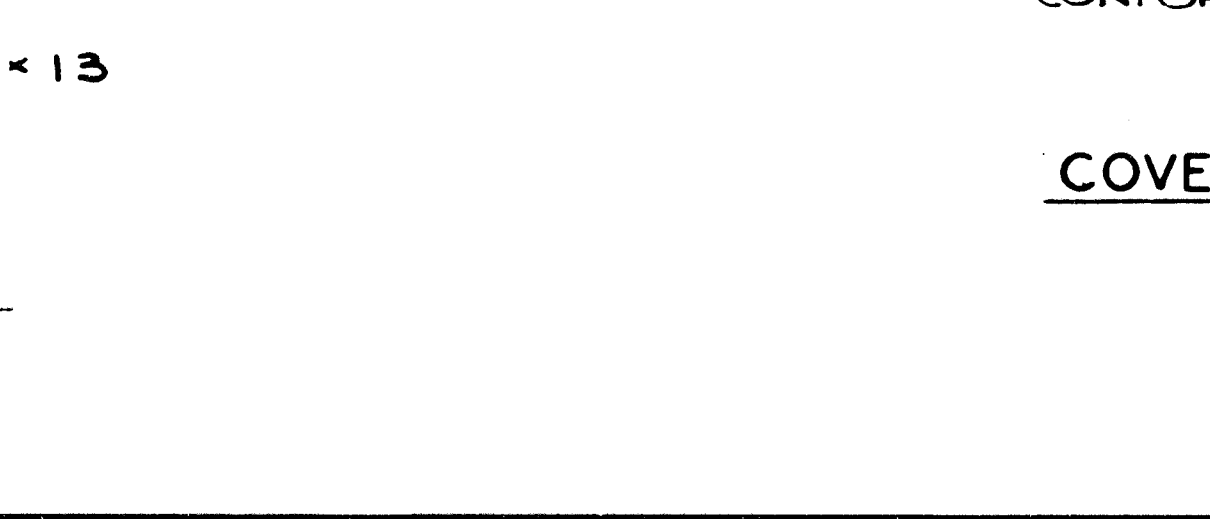
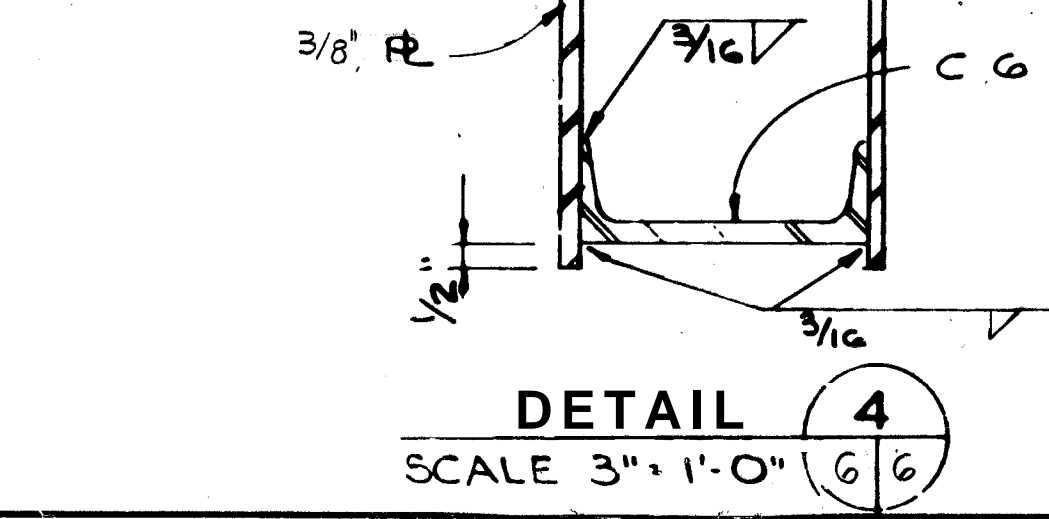
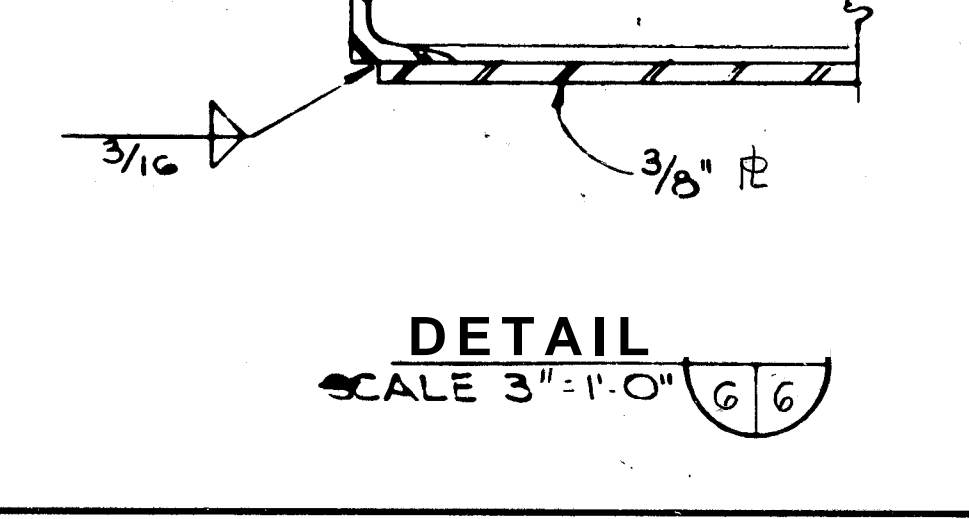
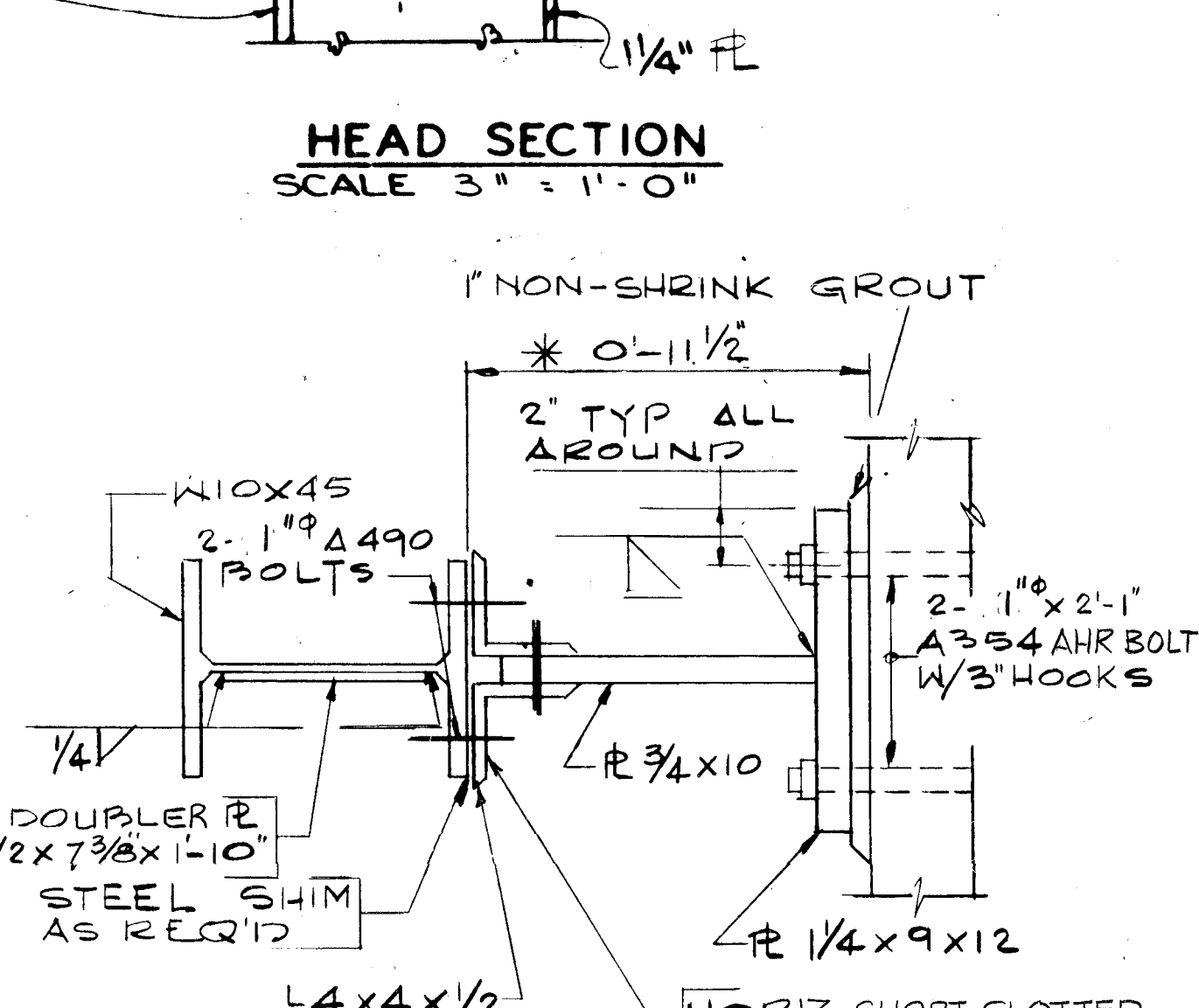
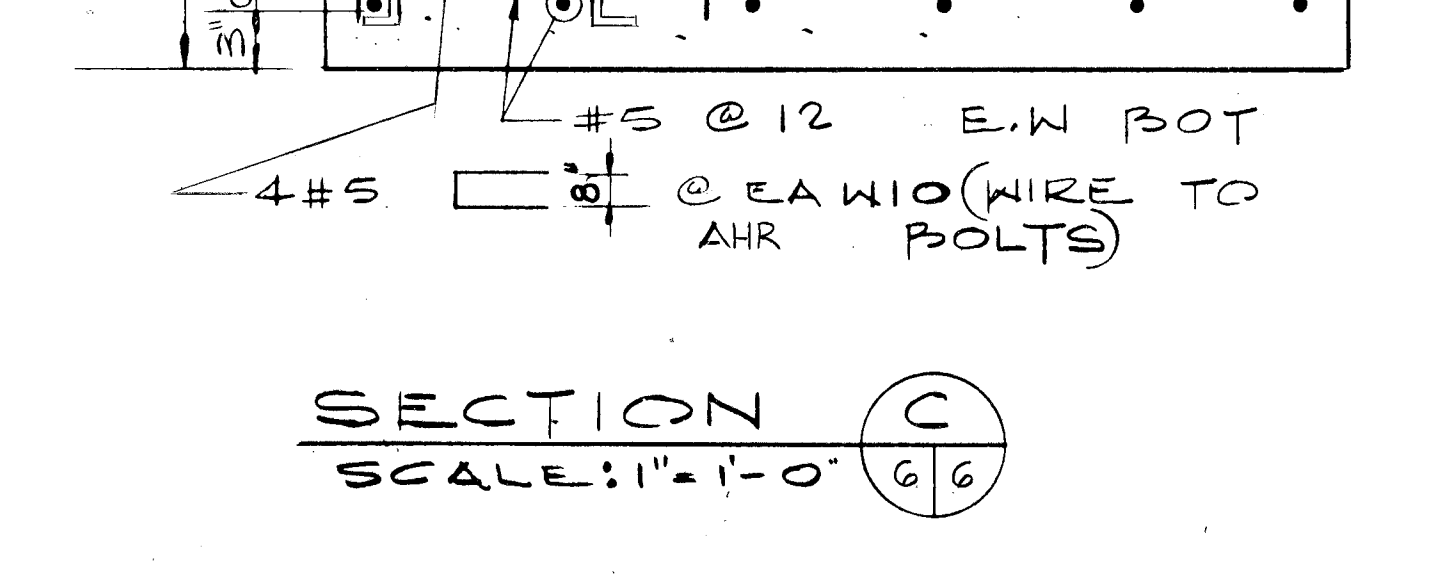
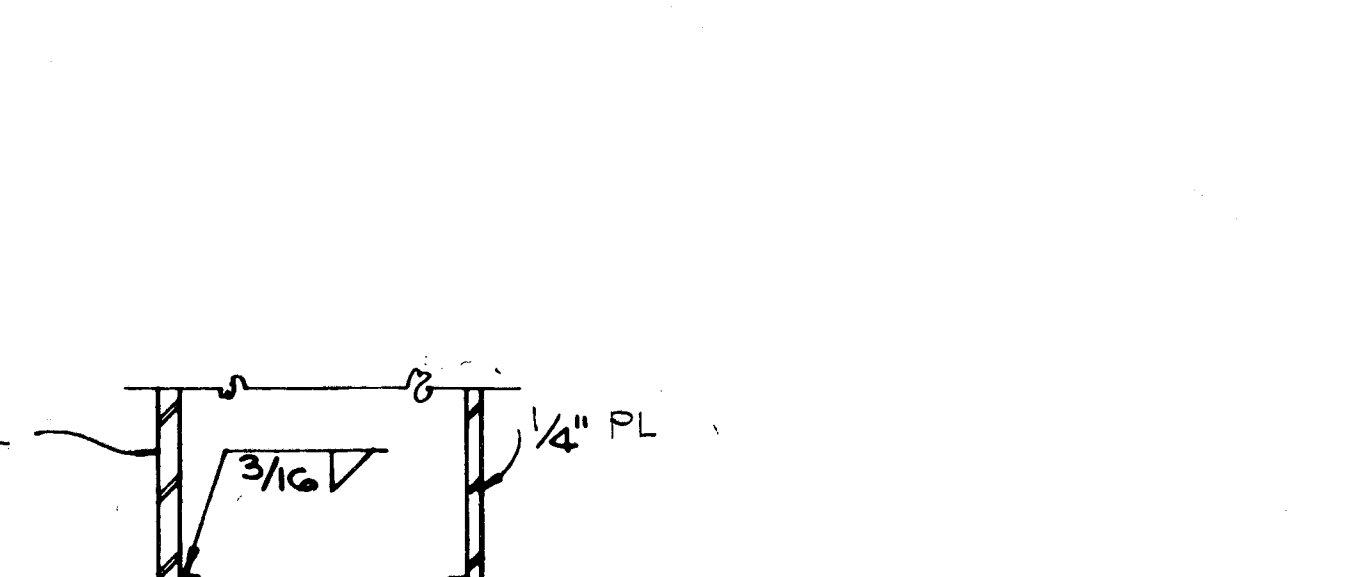
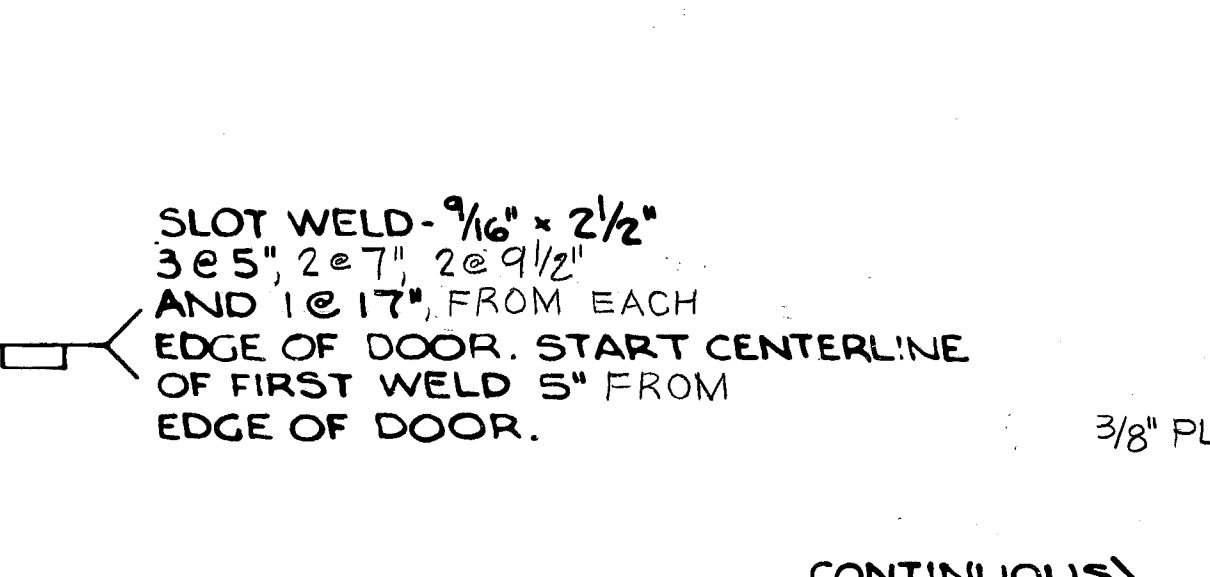
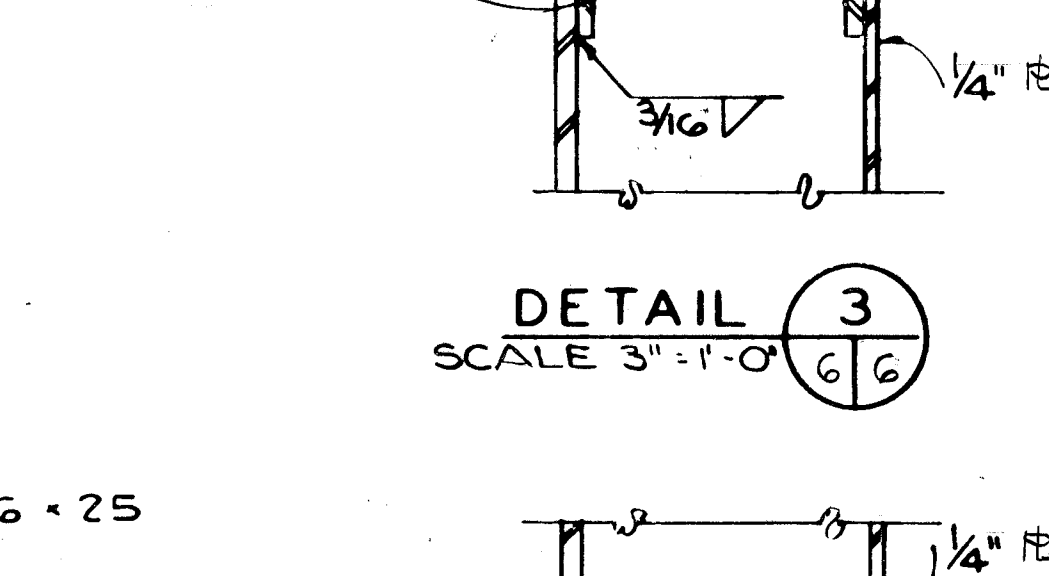
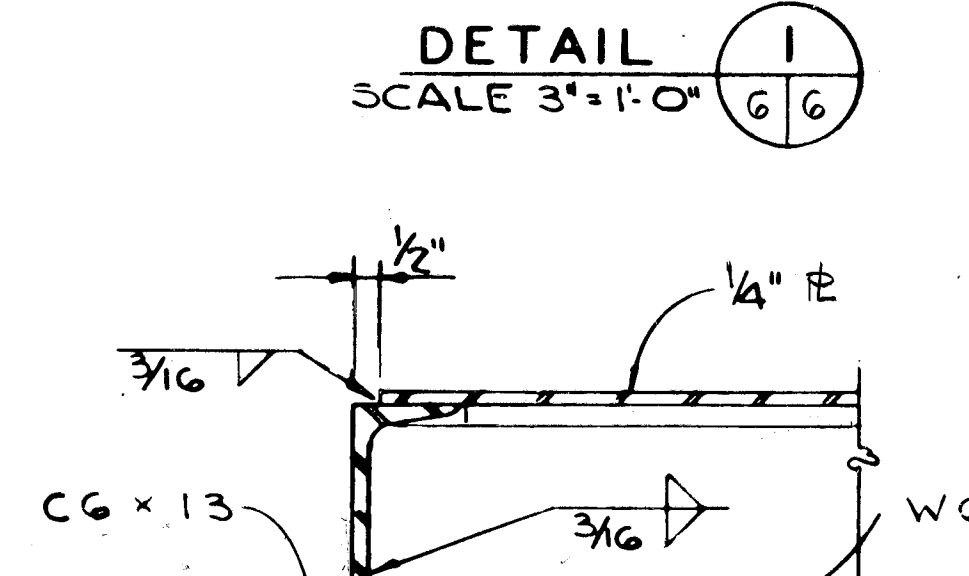
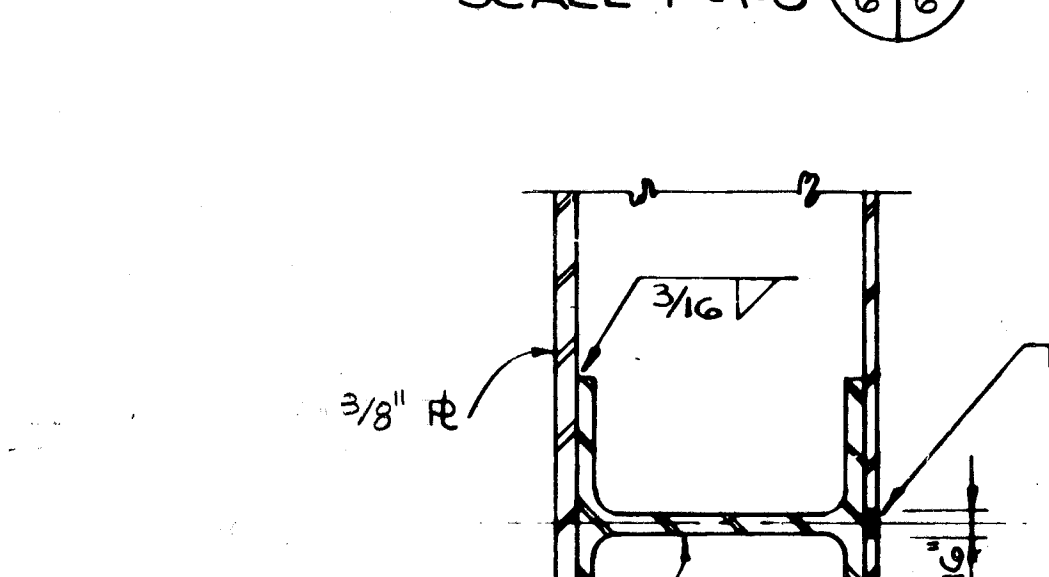
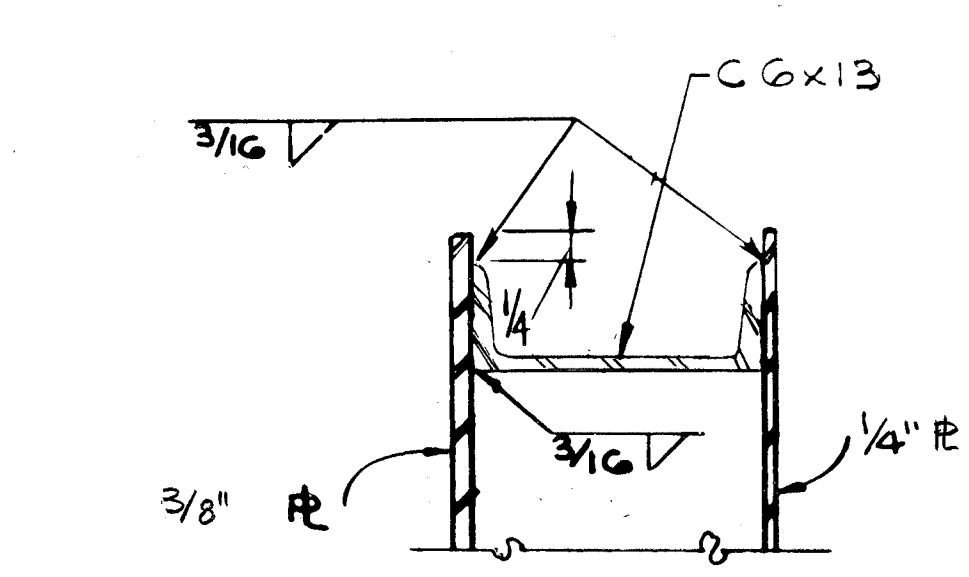
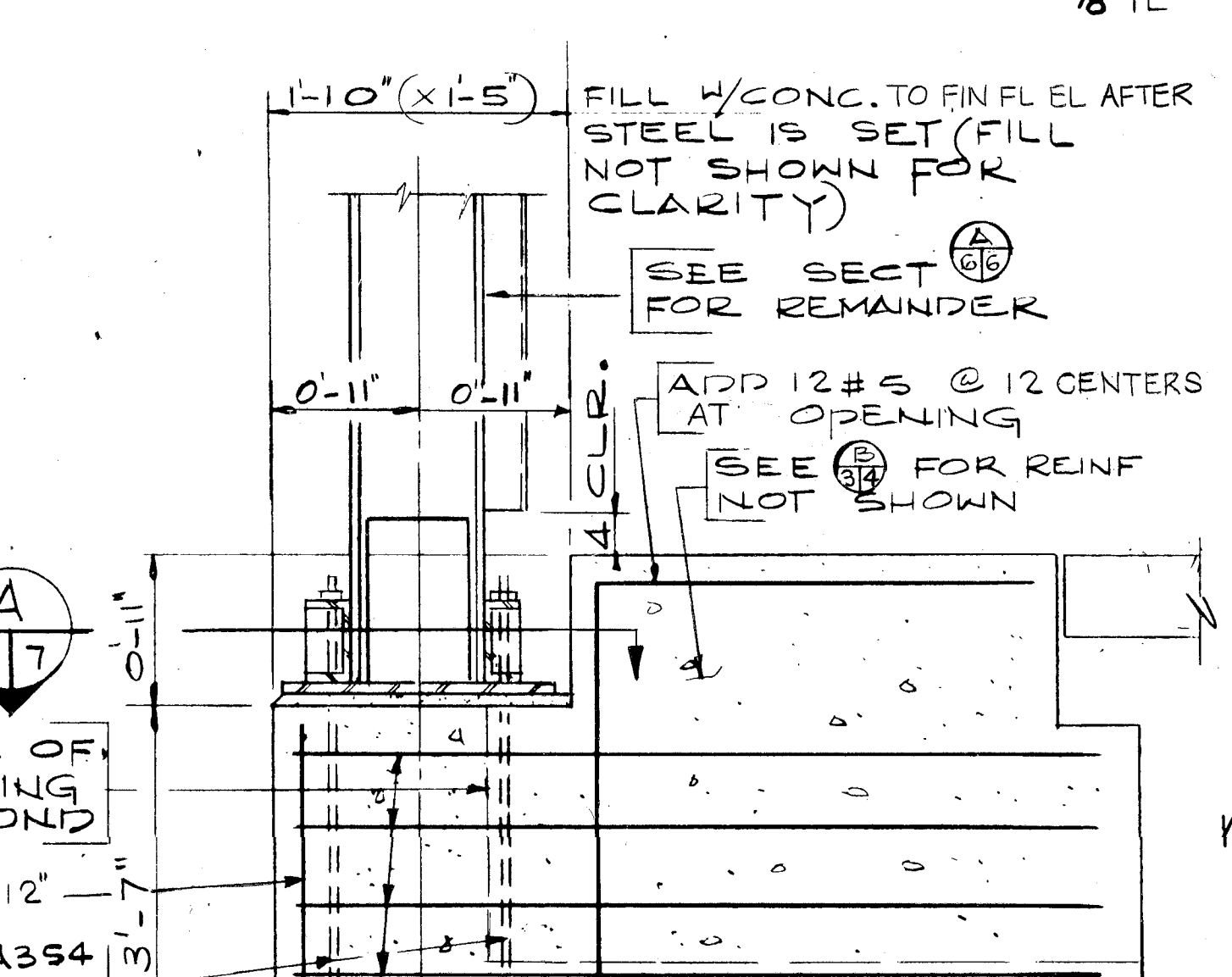
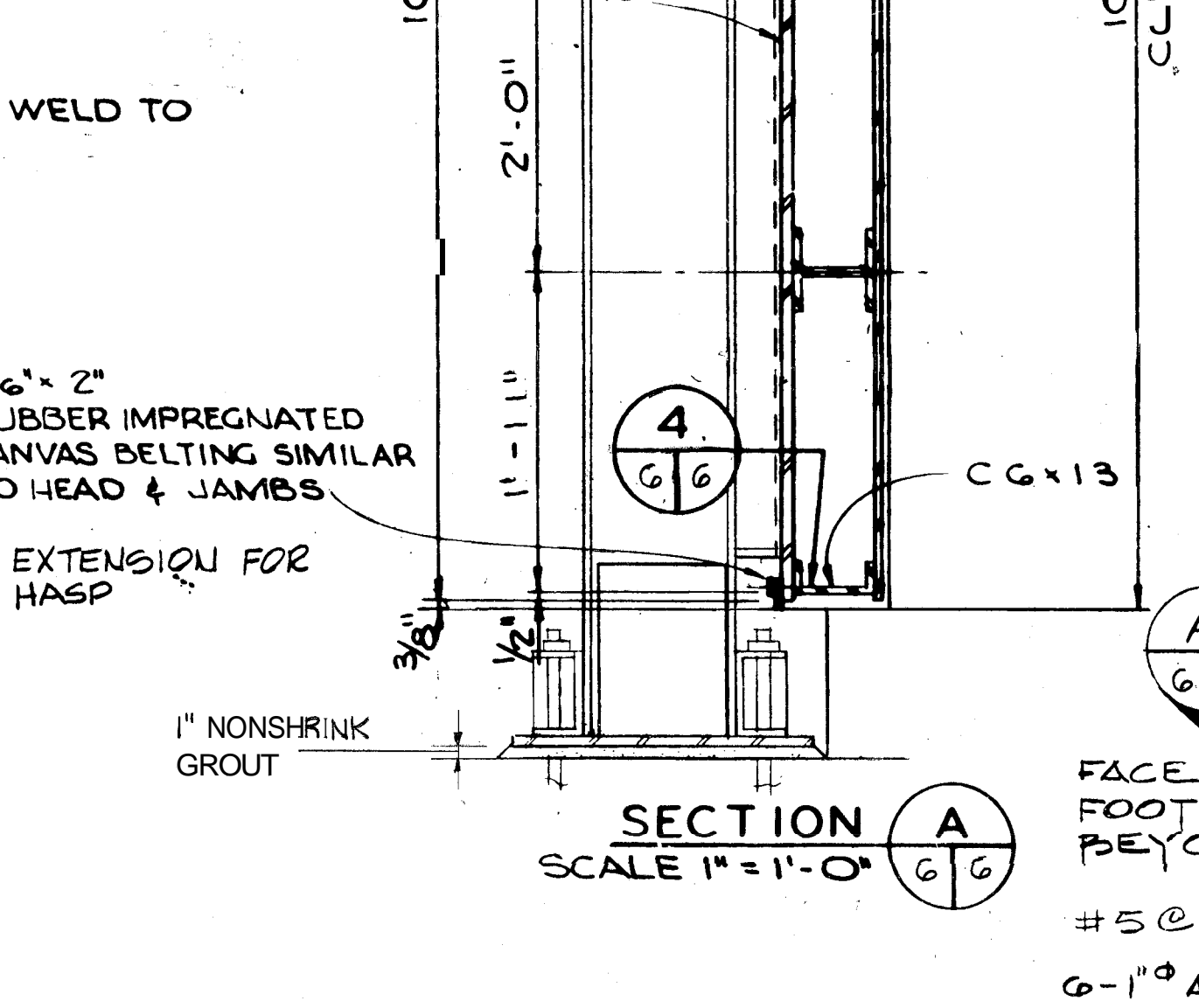
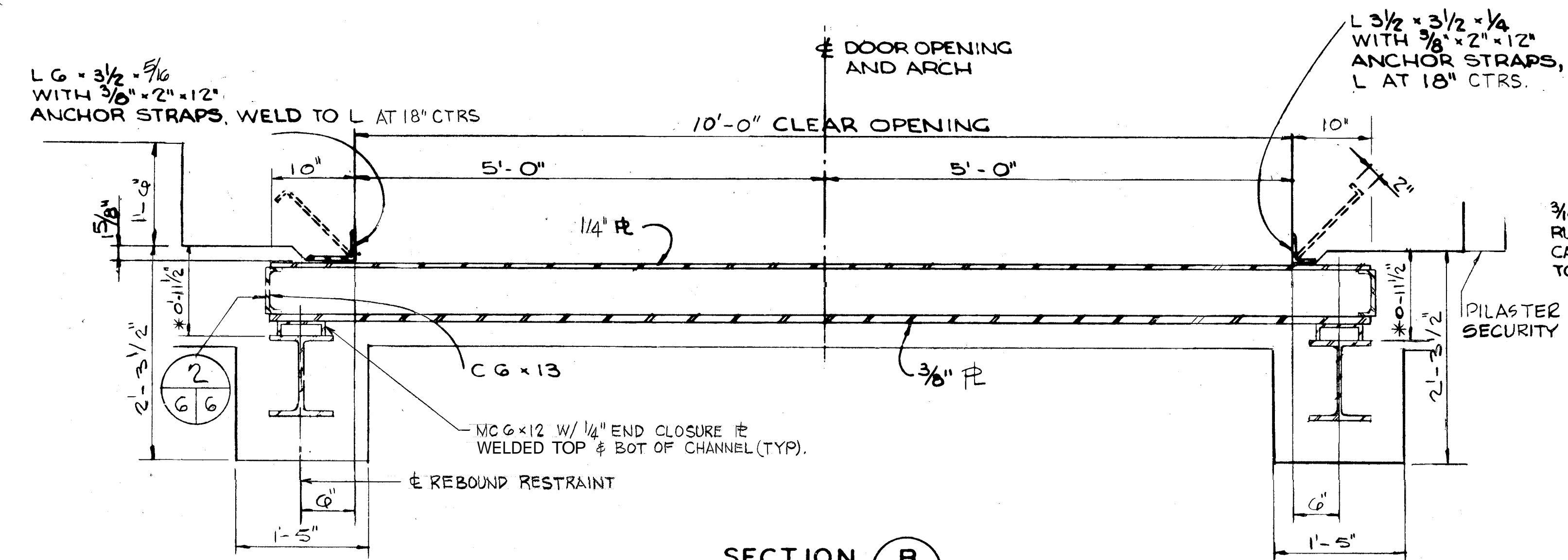
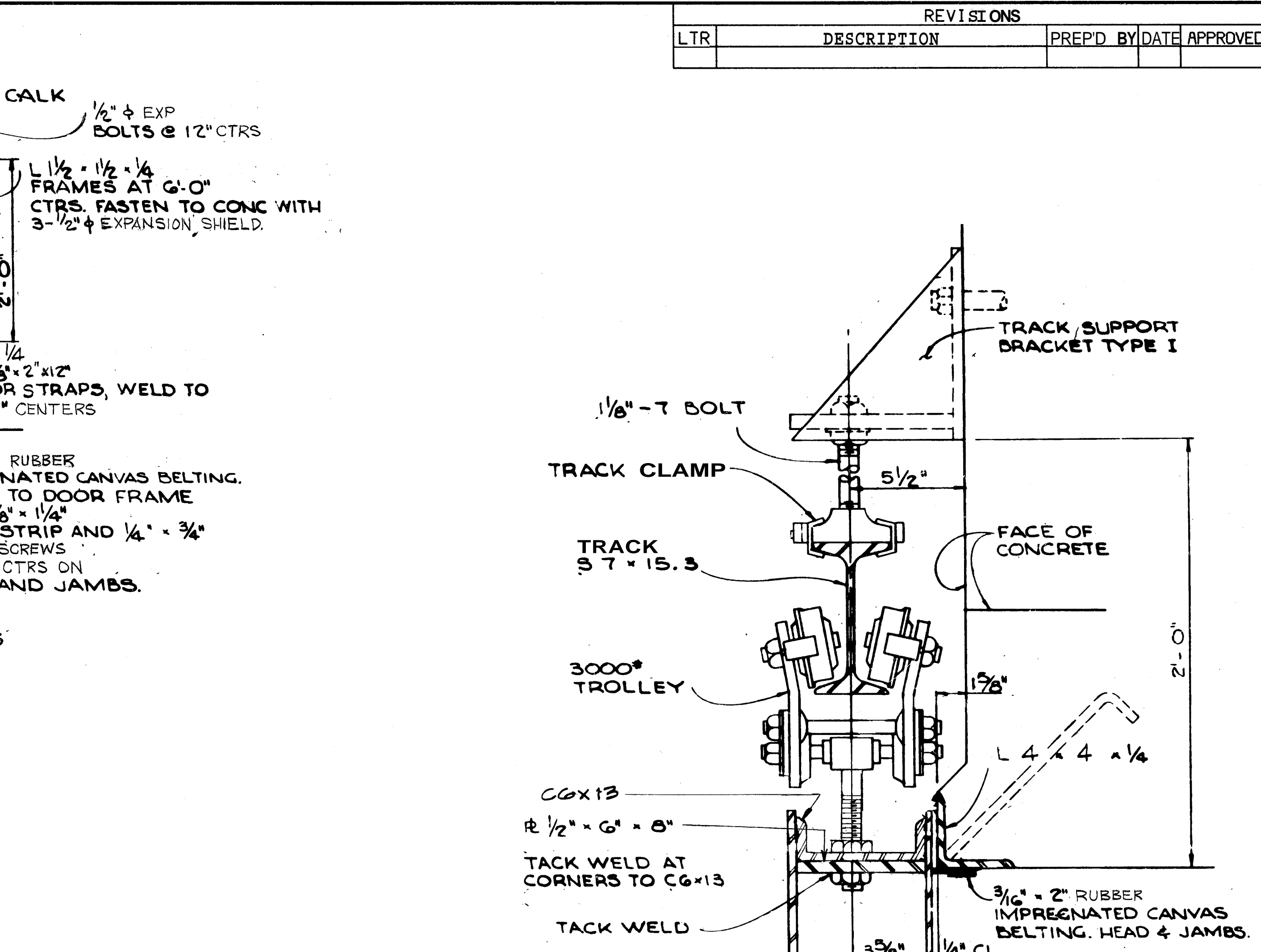
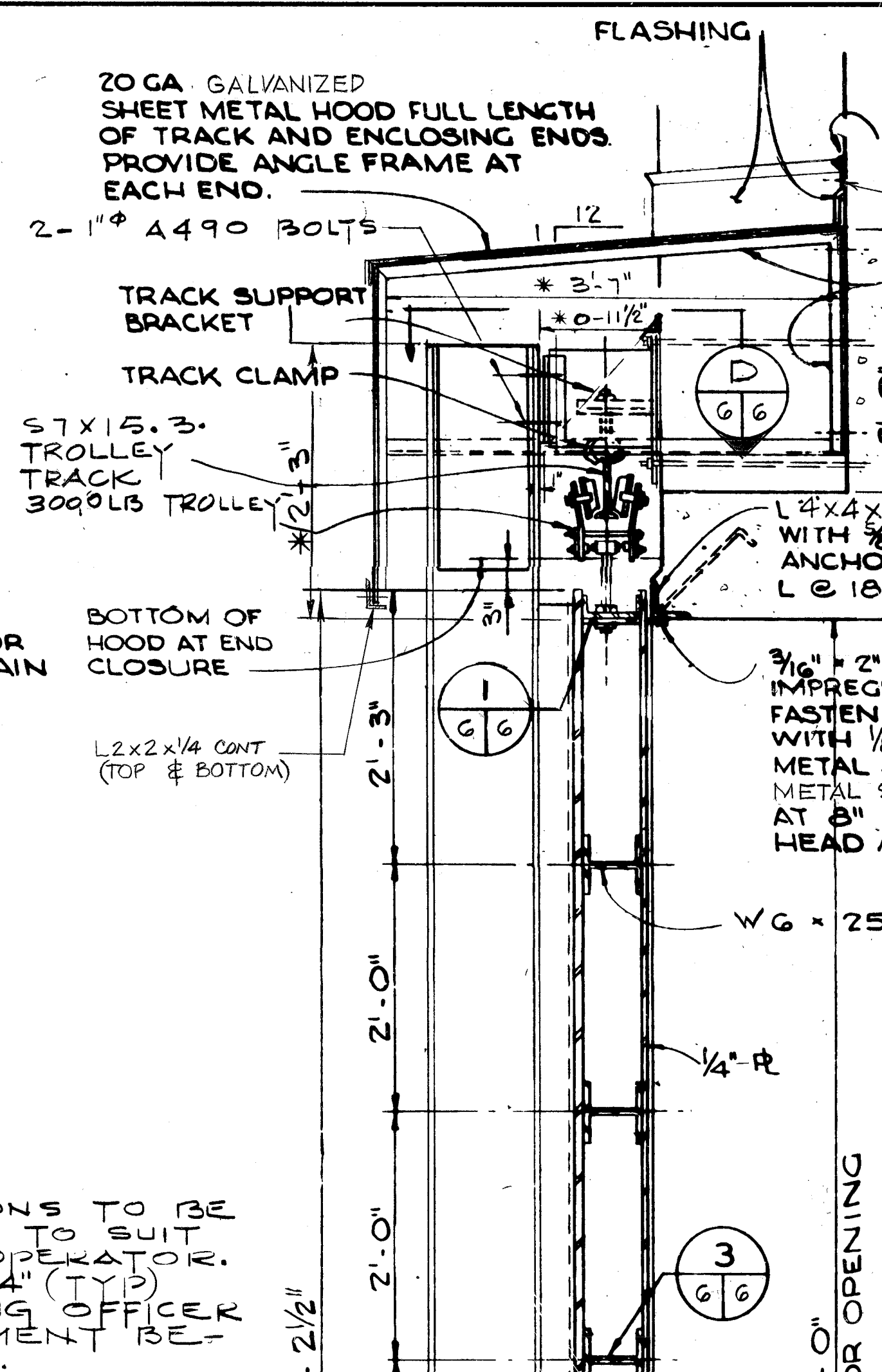
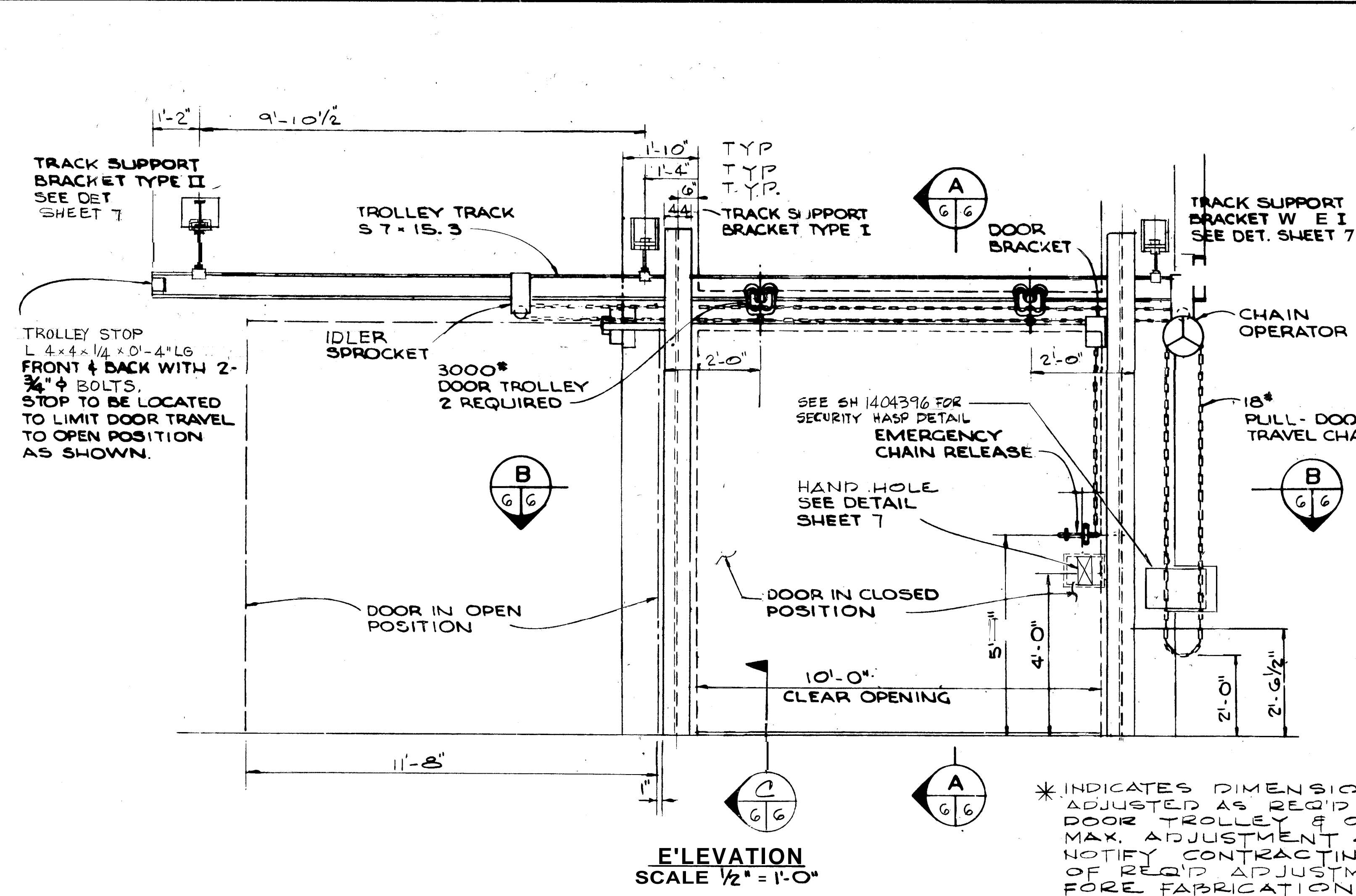


NOTE: CHECK GRAPHIC SCALES BEFORE USING.

CHECK GRAPHIC SCALES BEFORE USING.

	DSN: 1409 DR SUPV: DLJ CH ENGR: DLJ SUBMITTED BY: VP 10/24/54 FIRM NUMBER: (TITLE) NORTH: (TITLE) DTC: (TITLE)	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332
	NAVFAC: (TITLE) SHIP: (TITLE) DATE: (TITLE)	STANDARD EARTH-COVERED OVAL COMPOSITE ARCH MAGAZINE STRUCTURAL MISCELLANEOUS DETAILS
SATISFACTORY TO DESB DATE: (TITLE) APPROVED: (TITLE) DATE: (TITLE)	NAVFAC: (TITLE) SHIP: (TITLE) DATE: (TITLE)	CONSTR. CONTR. NO. SPEC. NFSS-M22 SHEET 5 OF 9

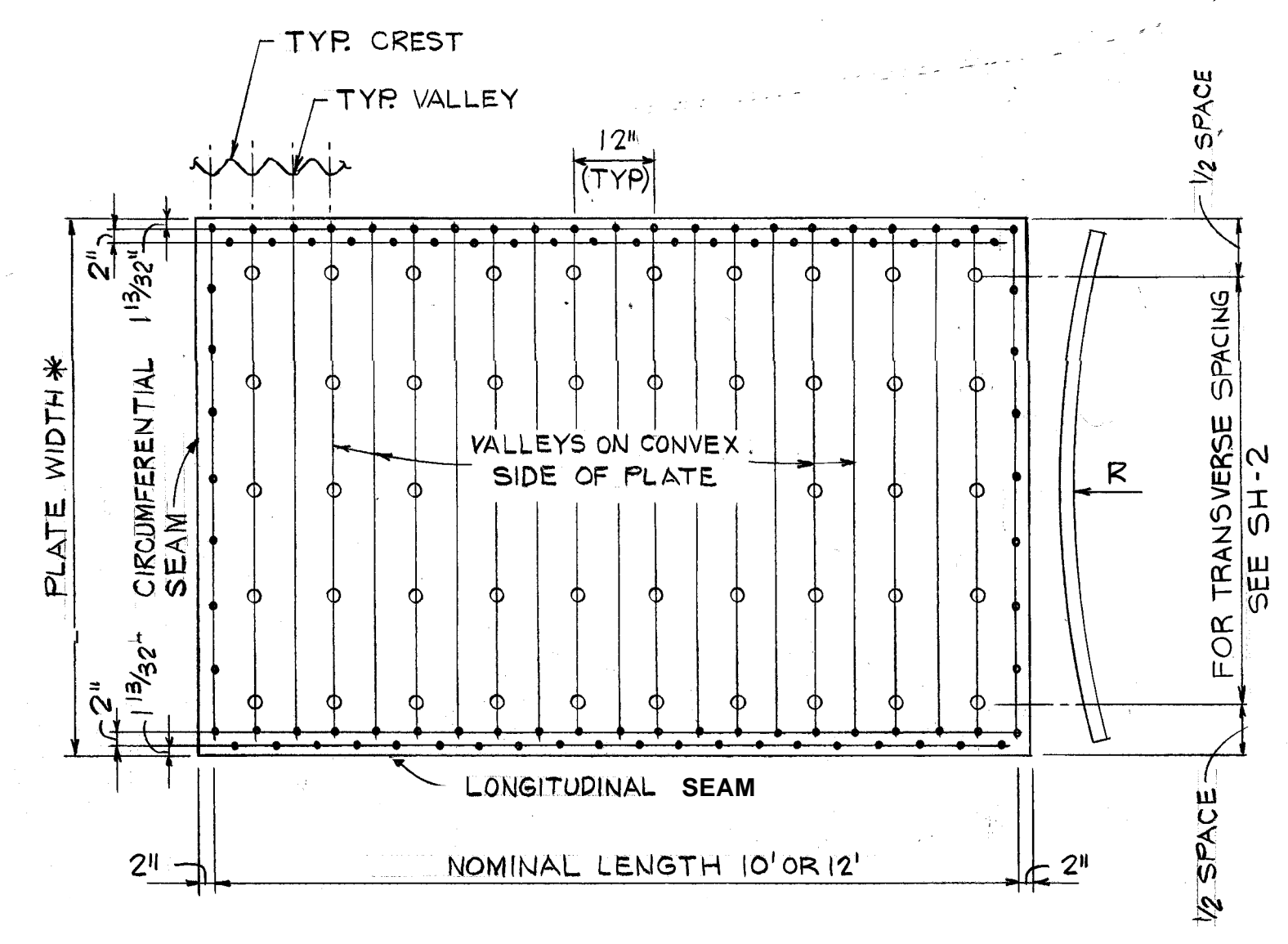
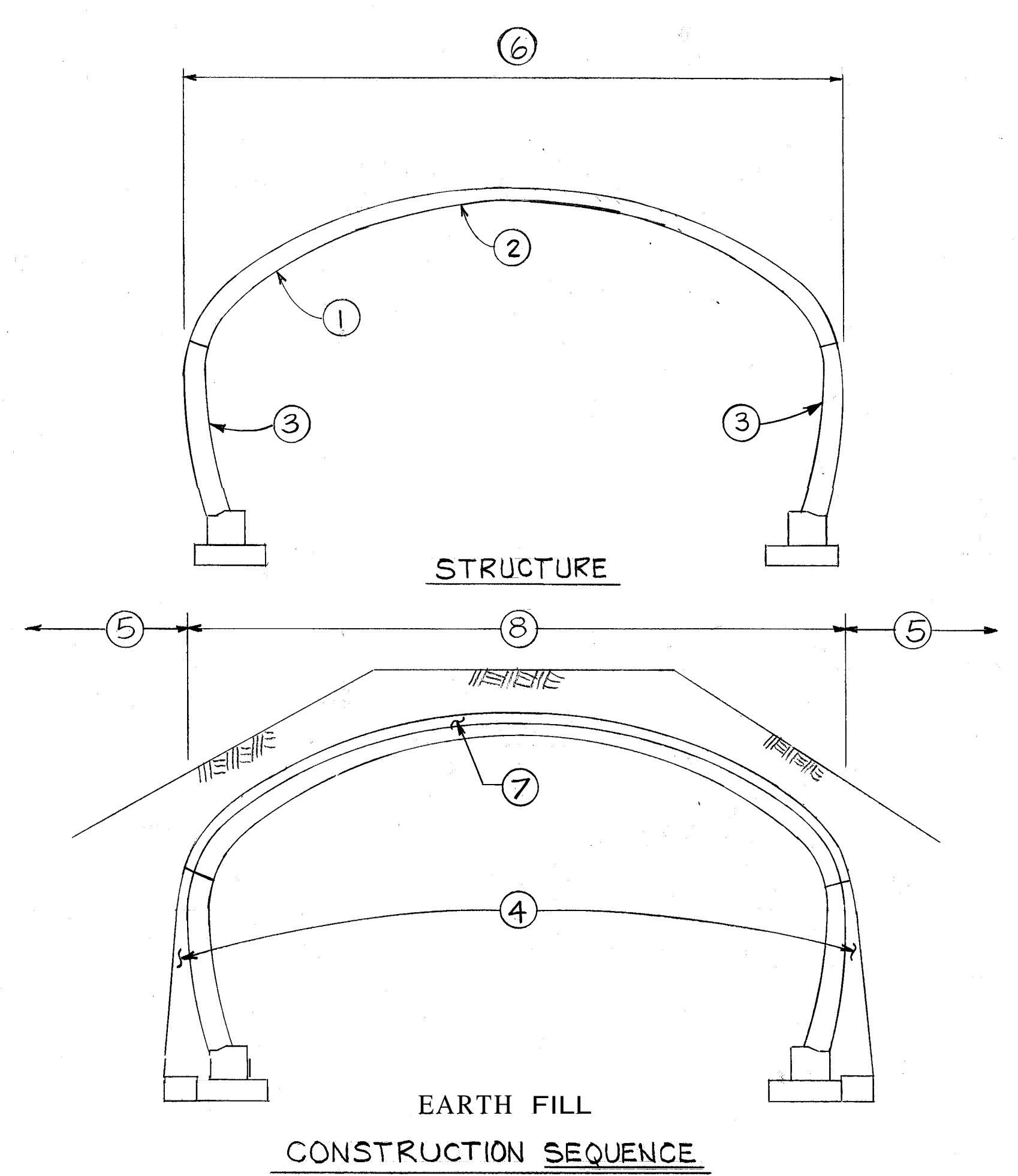
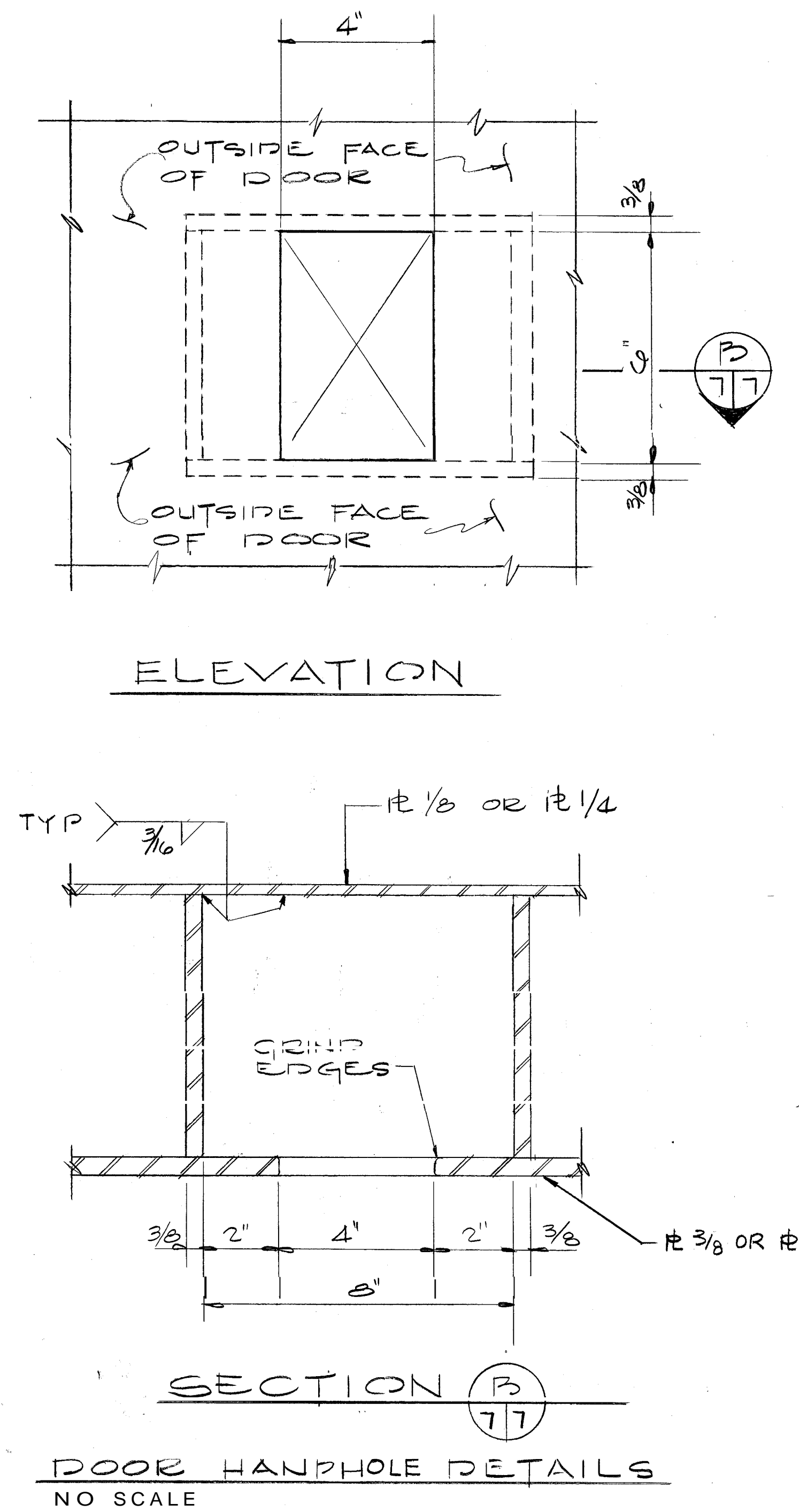
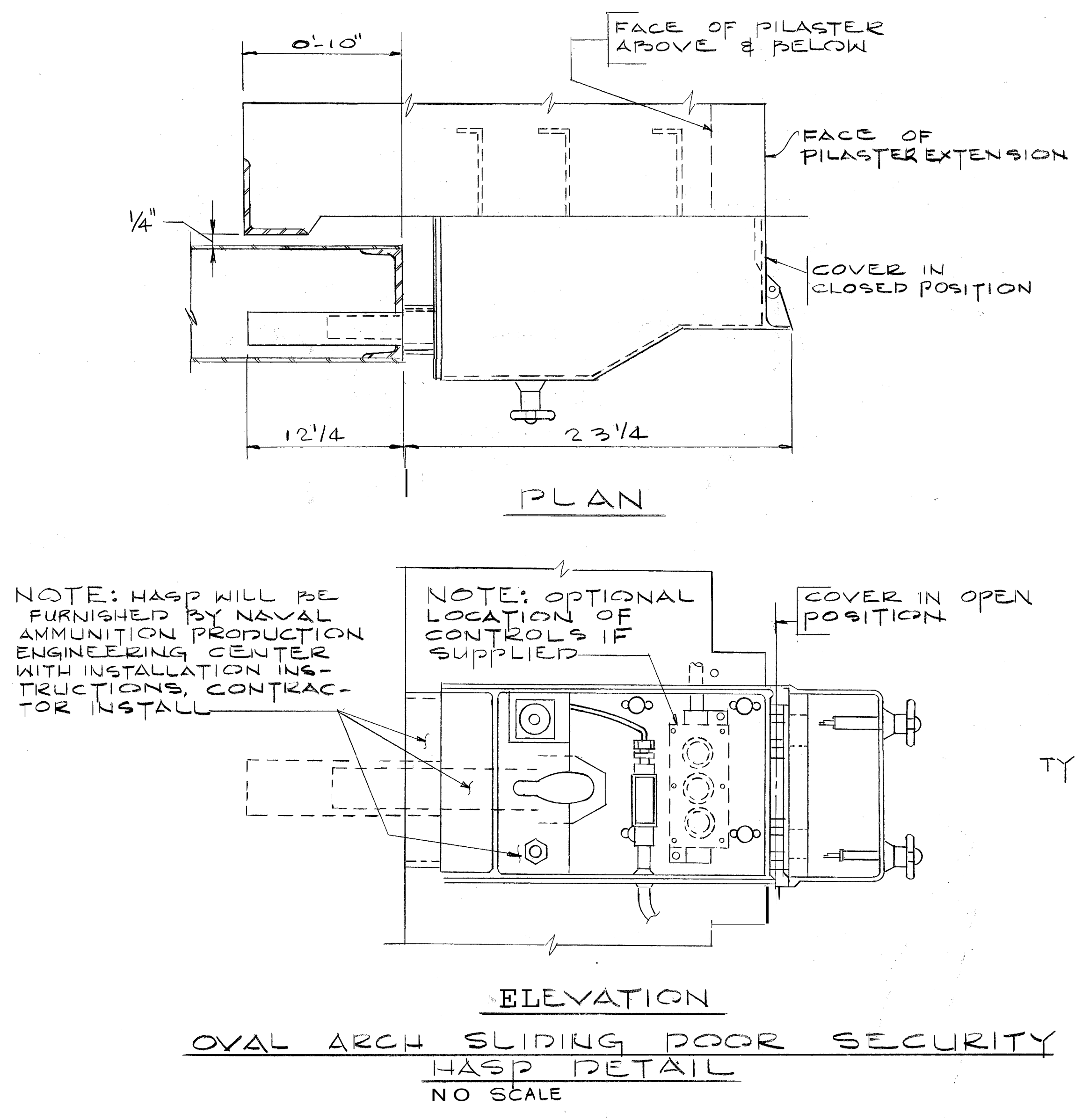
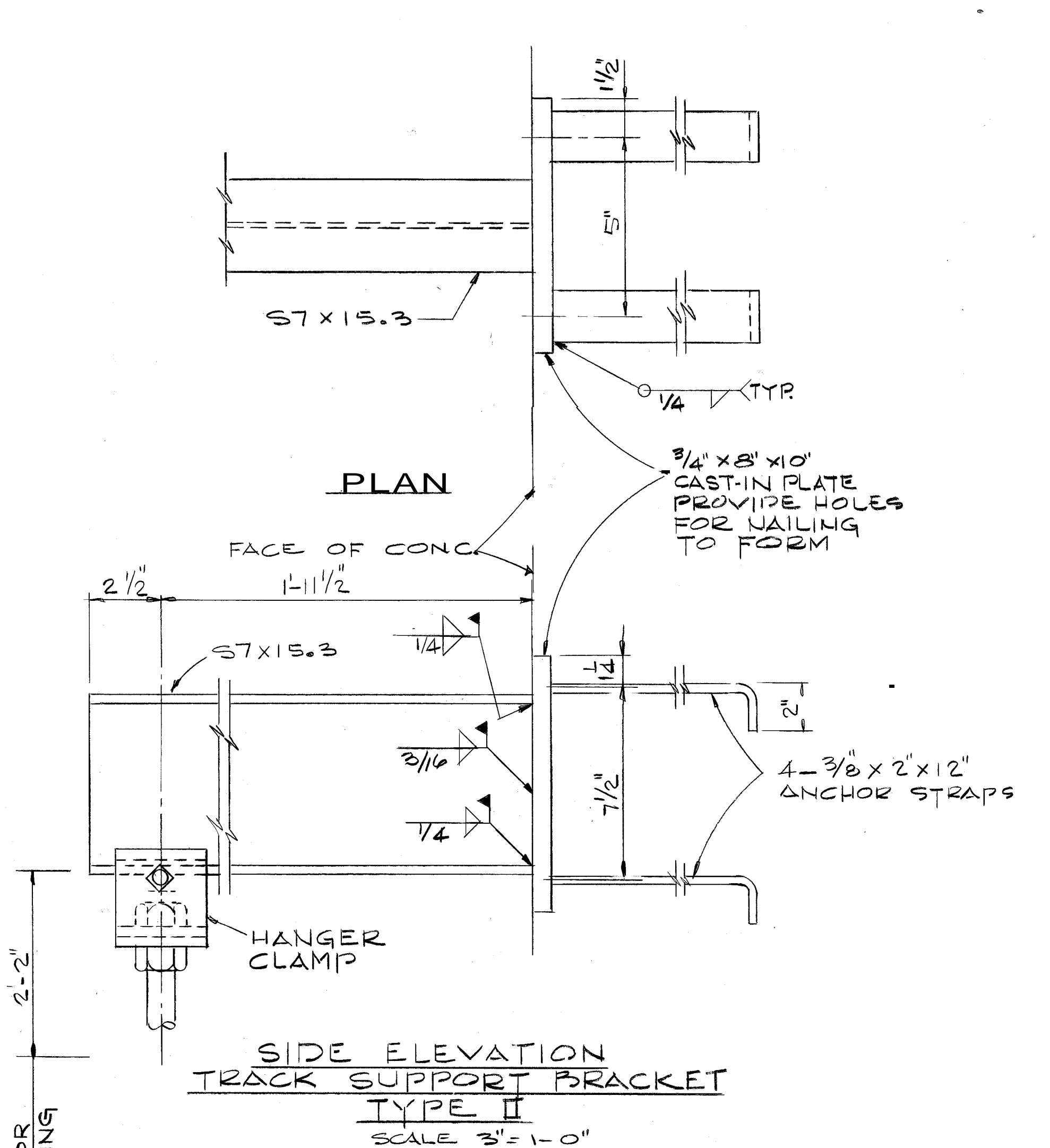
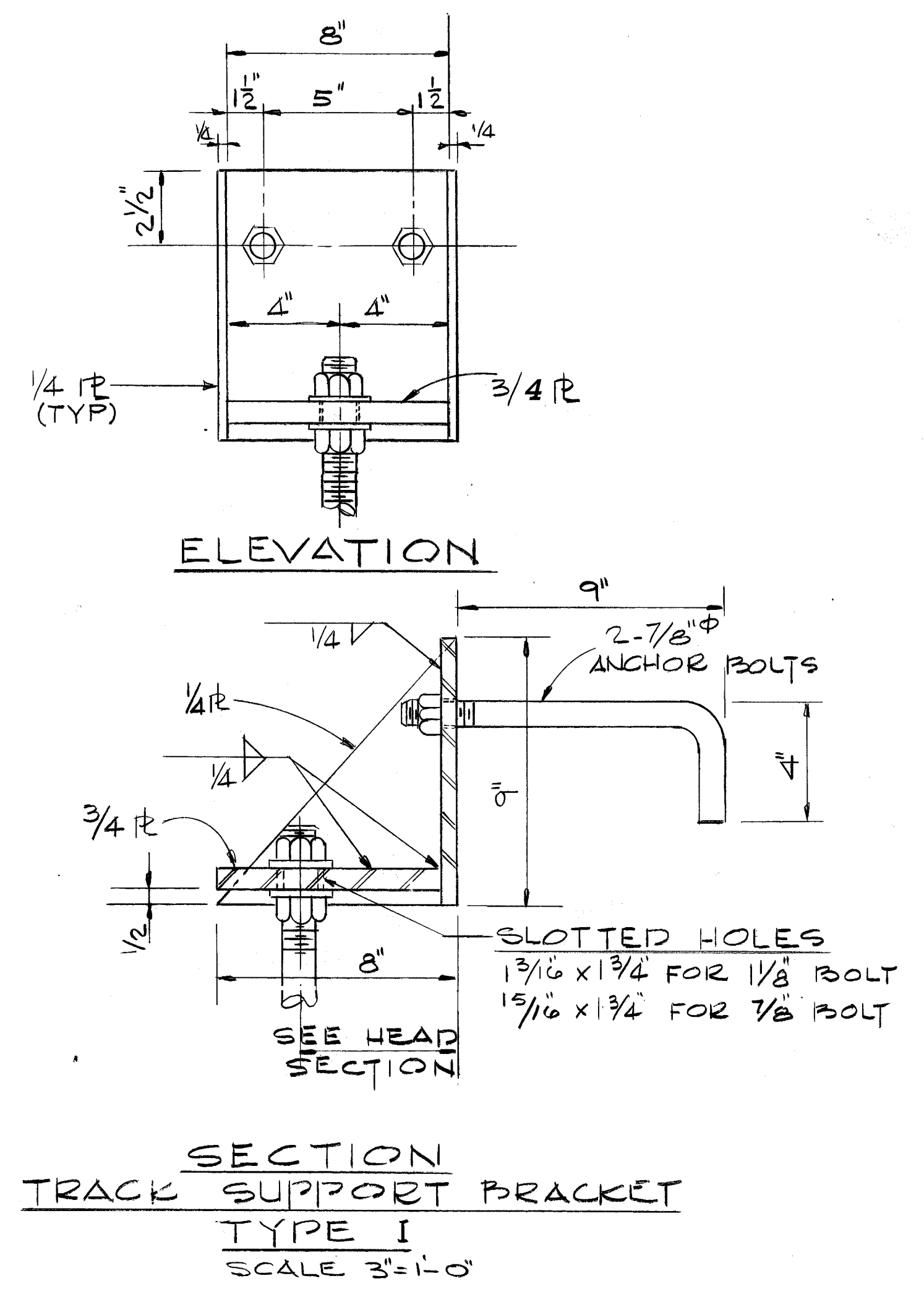
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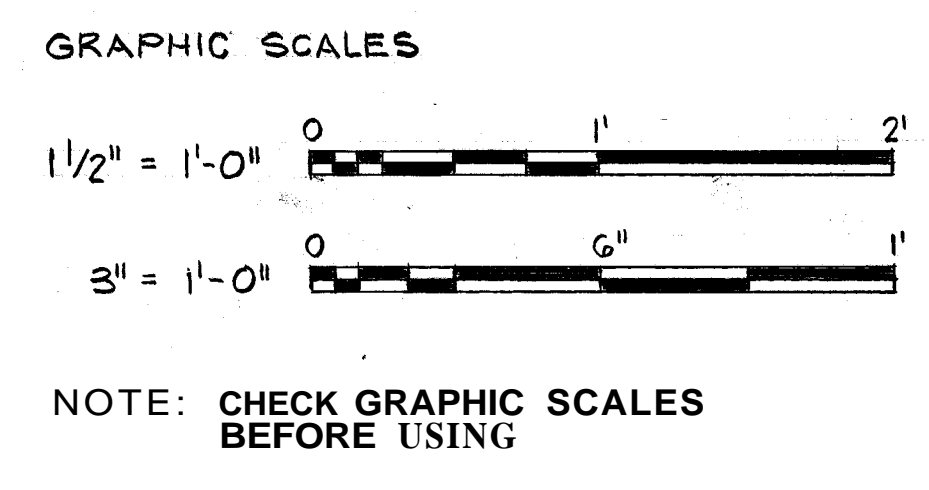
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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STUVAL STREET ALEXANDRIA, VA. 22332		STANDARD EARTH-COVERED OVAL COMPOSITE ARCH MAGAZINE STRUCTURAL 10'-0" BLAST DOOR & REBOUND DETAILS	
DESIGN BY: DR. CH. 200/100	SUPV. DLT: CH ENR DLT	DATE: 10/24/84	TITLE: 10'-0" BLAST DOOR & REBOUND DETAILS
NAVAC FILE: 1404395	RVD: J. Williams	DATE: 10/24/84	SIZE: 11x17
APPROVED: [Signature]	DATE: 10/24/84	CONSTR. CONTR. NO.:	1404395
SATSFACTORY TO DDESB DATE: 1-14-81		SCALE AS NOTED SPEC. NFSS-M22 SHEET 6 OF 9	

REVISIONS		
LTR	DESCRIPTION	PREP'D BY DATE APPROVED



- DENOTES 3/4" PLATE ASSEMBLY BOLTS PUNCHED FOR 4 BOLTS PER FOOT OF LONGITUDINAL SEAM AND AS SHOWN FOR CIRCUMFERENTIAL.
- DENOTES 3/8" x 4" WELDED HEADED SHEAR STUDS.
- * 5 PLATE WIDTHS MAY BE USED:
8 1/2" W/ 8 BOLT SPACES
7 2" W/ 7 BOLT SPACES
6 2 3/8" W/ 6 BOLT SPACES
5 3 3/8" W/ 5 BOLT SPACES



DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
200 STOVALL STREET ALEXANDRIA, VA 22334

STANDARD
EARTH-COVERED OVAL COMPOSITE ARCH MAGAZINE
STRUCTURAL
MISCELLANEOUS SECTIONS

NAVY FACILITIES ENGINEERING COMMAND
DESIGNED BY: DLJ/DR CHK/BA/RWE
SUBMITTED BY: DLJ/DR CHK/BA/RWE
TITLE: VP 10/1/74
NORTH BY: DLJ/DR CHK/BA/RWE
DATE: 10/1/74
DRAWN BY: DLJ/DR CHK/BA/RWE
DATE: 10/1/74
CHECKED BY: DLJ/DR CHK/BA/RWE
DATE: 10/1/74
APPROVED BY: DLJ/DR CHK/BA/RWE
DATE: 10/1/74

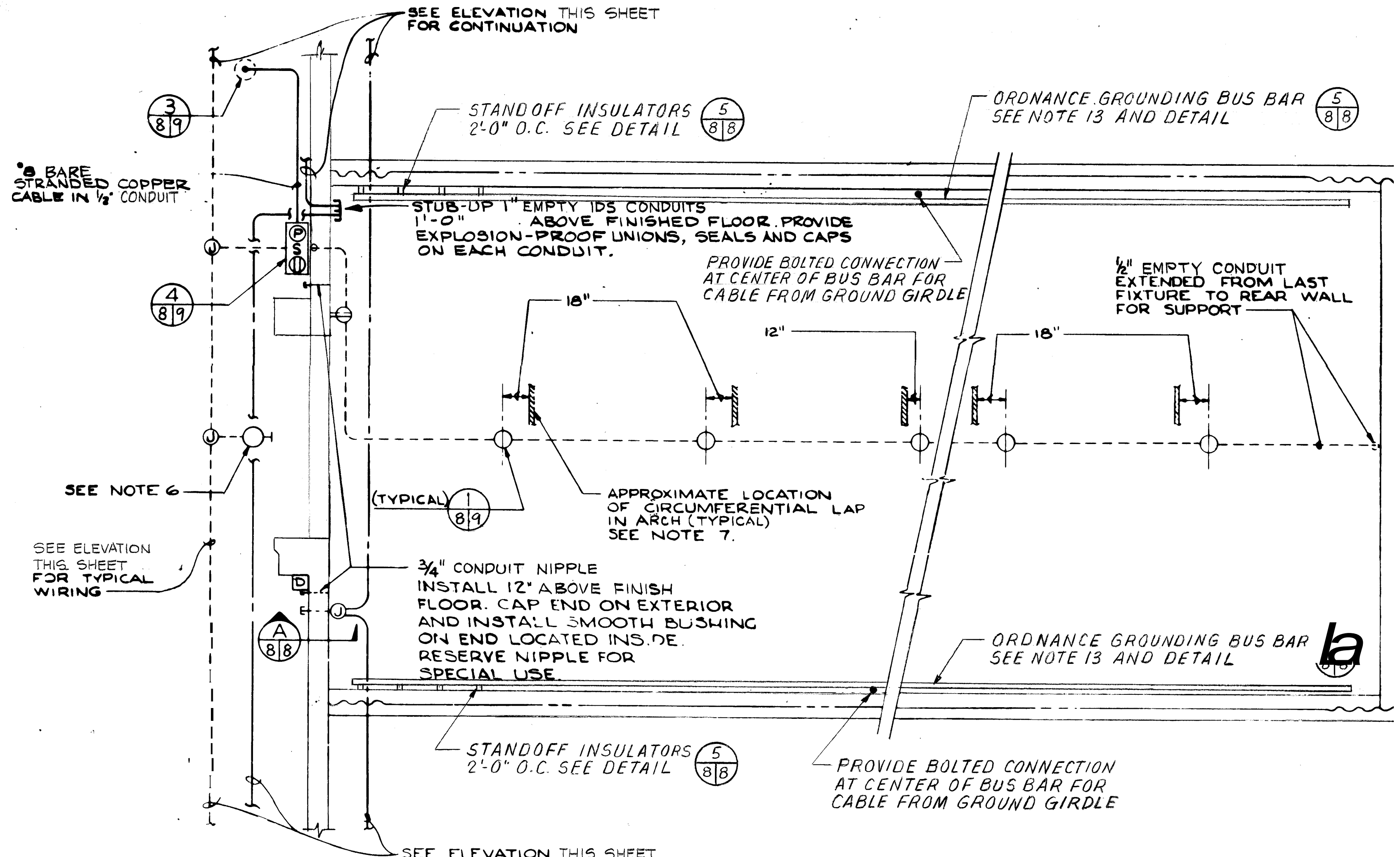
SIZE CODE IDENT. NO. NAVFAC DRAWING NO.
F 80091 1404396

SATISFACTORY TO DDESB DATE: 1-14-81
APPROVED BY: DLJ/DR CHK/BA/RWE
DATE: 1-14-81
COMMAN: NAVFAC-ENSCOM

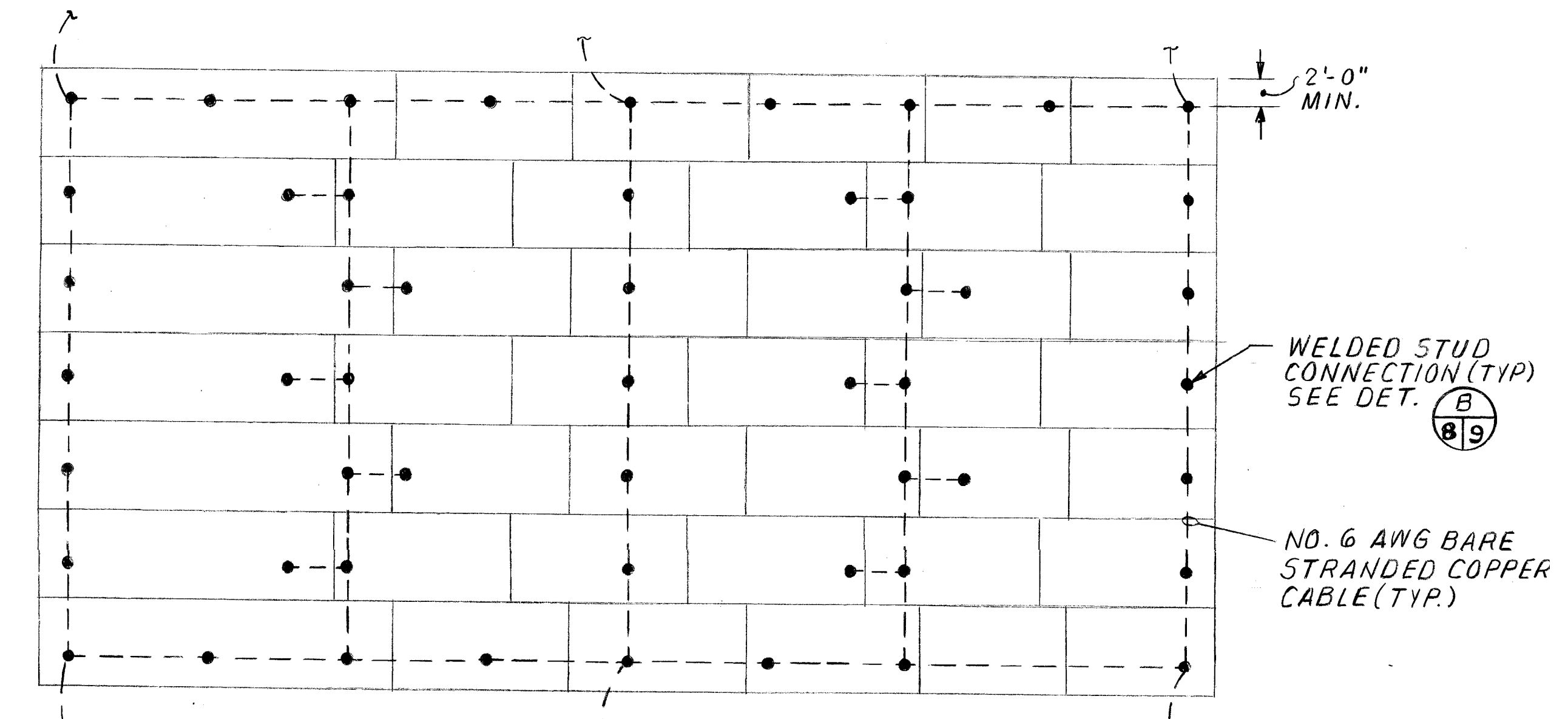
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SCALE AS NOTED SPEC. NFSS-M22 SHEET 7 OF 9

REVISIONS			
LTR	DESCRIPTION	PREP'D BY	DATE APPROVED

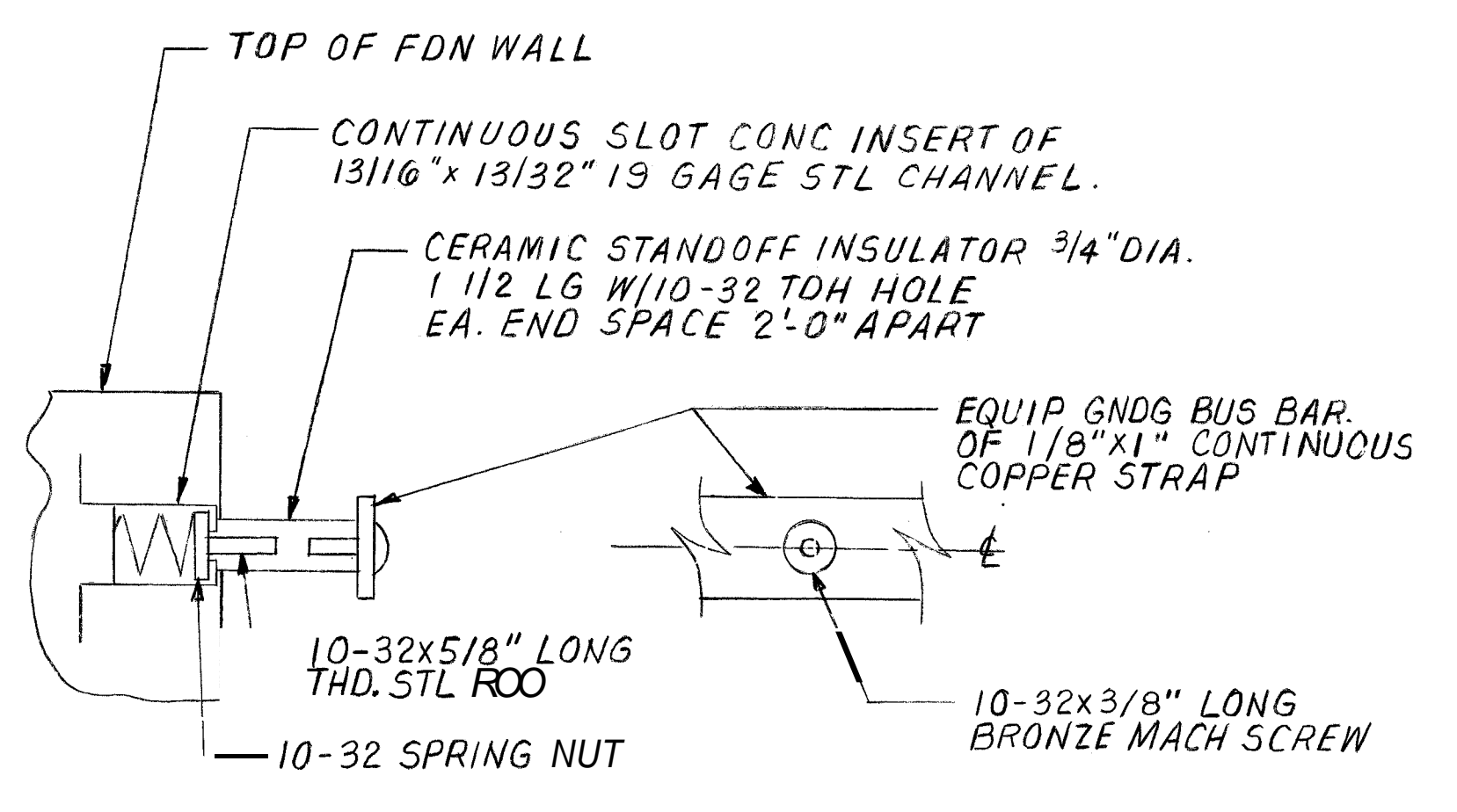


PLAN
SCALE: 1/8" = 1'-0"



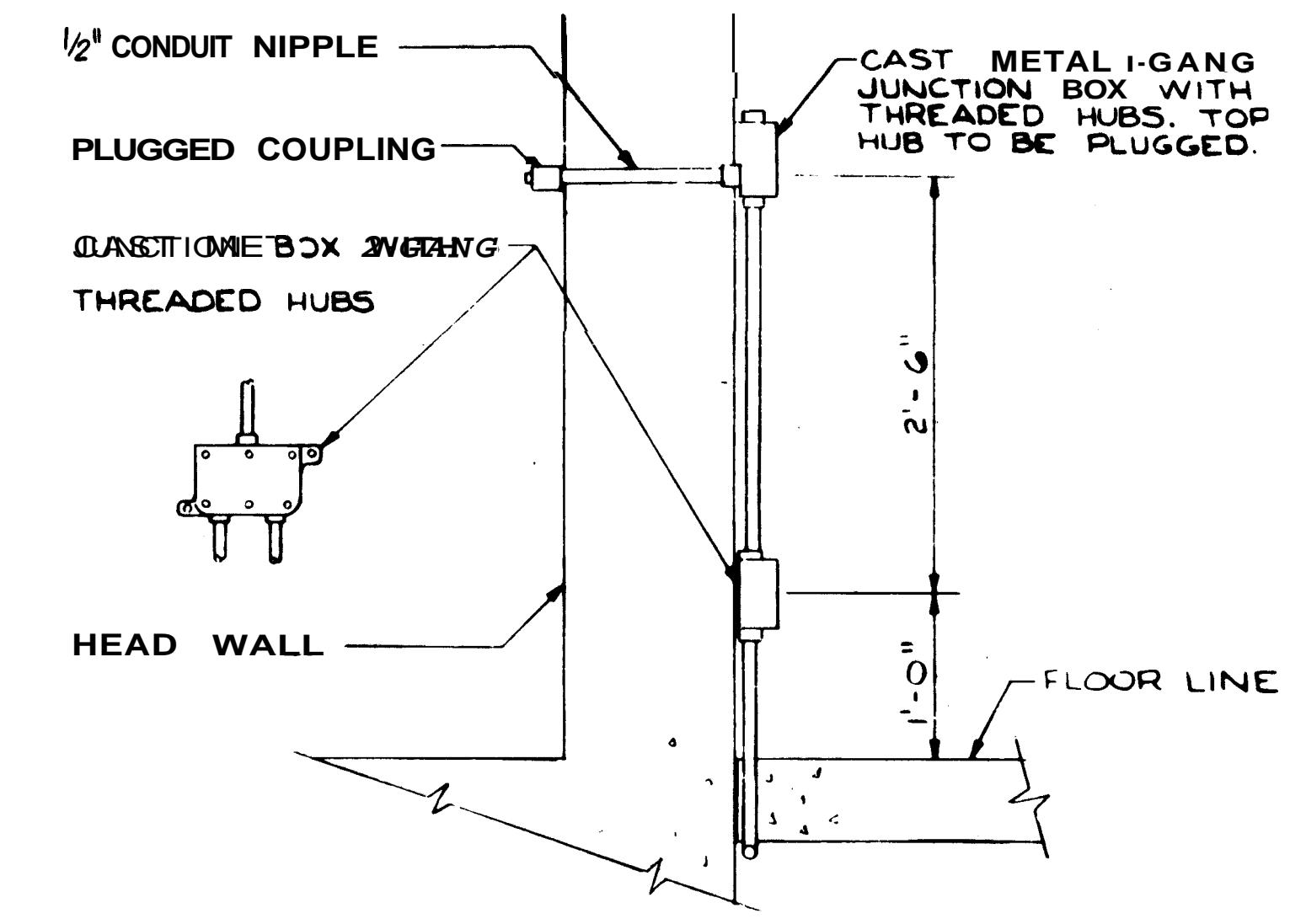
PLAN STEEL ARCH GROUNDING CONNECTIONS
SCALE: 1/8" = 1'-0"

NOTE:
SEE SHEET 9 FOR ARCH GROUNDING CONNECTION INSTRUCTIONS.



SECTION FRONT VIEW
ORDNANCE GROUNDING BUS BAR

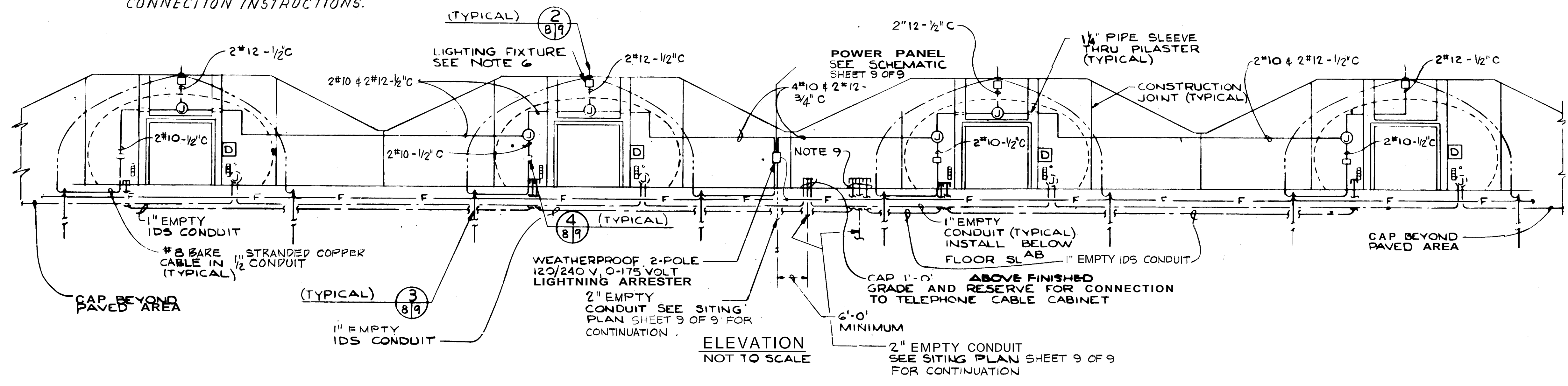
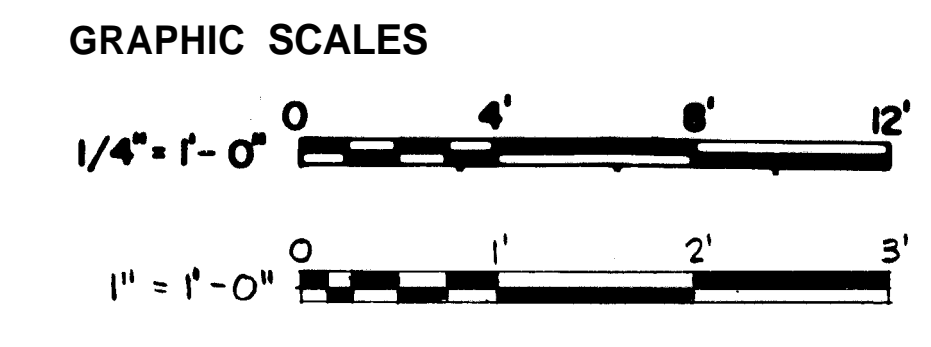
DETAIL (5/8/8)
NO SCALE



SECTION (A/8/8)
SCALE: 1" = 1'-0"

- LEGEND**
INTRUSION DETECTION SYSTEM
- WALL MOUNTED INCANDESCENT LIGHTING FIXTURE. SEE NOTE-6.
 - CEILING MOUNTED INCANDESCENT LIGHTING FIXTURE. SEE DETAIL. 1/8/9
 - DUPLEX RECEPTACLE, GROUNDING TYPE, 20A, 120V 2P, 3W
 - 3-GANG OUTLET BOX WITH SINGLE GANG COVER FOR PILOT LAMP, SINGLE POLE SWITCH AND SINGLE RECEPTACLE, GROUNDING TYPE, 20A, 120V, 2P, 3W, GFI TYPE SUITABLE FOR USE OUTDOORS.
 - JUNCTION BOX, CAST METAL WITH THREADED WALLS OR HUBS.
 - CONDUIT RUN CONCEALED IN OR INSTALLED BELOW FLOOR SLAB. NOTE: ANY CONDUIT RUN NOT OTHERWISE INDICATED SHALL BE 1/2" AND CONTAIN TWO NO. 12 AWG. WIRES. A GREATER NUMBER OF WIRES ARE SHOWN WITH CROSS LINES AS FOLLOWS:
 - THE LONG CROSS LINE INDICATES THE IDENTIFIED GROUNDING NEUTRAL CONDUCTOR AND THE SHORT CROSS LINES INDICATES THE PHASE CONDUCTOR. UNLESS OTHERWISE INDICATED ALL CONDUCTORS ARE NO. 12 AWG. GROUND CONDUCTORS ARE NOT INDICATED BUT SHALL BE PROVIDED IN ALL POWER & LIGHTING CONDUITS.
 - CONDUIT RUN INSTALLED EXPOSED ON WALLS OR CEILING. WIRING SHALL BE SAME AS IN NOTE FOR CONCEALED CONDUIT RUN.
 - AUXILIARY EMPTY CONDUIT RUN CONCEALED IN OR INSTALLED BELOW FLOOR SLAB. SIZED AS INDICATED.
 - CONDUIT TERMINATED WITH A PLUGGED COUPLING.
 - SECONDARY LIGHTNING ARRESTER (L.A.)
 - LIGHTNING AIR TERMINAL. EXTEND 2'-0" ABOVE PROTECTED OBJECT
 - GROUND ROD
 - F FACILITY GROUND GIRDLER, NO. 1/0 AWG BARE STRANDED COPPER CABLE.
 - DOWN CONDUCTOR FROM AIR TERMINAL, NO. 1/0 AWG. BARE STRANDED COPPER CABLE.
 - EXPLOSION PROOF SEAL FITTING IN CONDUIT RUN
 - OPTIONAL DOOR CONTROL UNIT FOR DOOR CONTROLS. IF PROVIDED SEE NOTE 10.

- NOTES**
- HOLES SHALL NOT BE MADE IN COMPOSITE ARCH FOR INSTALLATION OF ELECTRICAL WORK. SEE NOTE 7.
 - THE CONDUIT SYSTEM ON THE FRONT OF STRUCTURE IS TO HAVE SUPPORTS SPACED NOT MORE THAN 8'-0". SUPPORTS ON EACH SIDE OF CONSTRUCTION JOINTS SHALL NOT EXCEED 5'-0".
 - RUNNING THREAD COUPLING CONNECTIONS ARE NOT PERMITTED FOR THE RIGID CONDUIT SYSTEMS.
 - FOR THE 120/240 VOLT, SINGLE PHASE, 3-WIRE SERVICE, PROVIDE A 2" EMPTY CONDUIT 2'-0" BELOW FINISHED GRADE AND TERMINATE WITH A PLUGGED COUPLING NOT LESS THAN 5'-0" BEYOND PAVED AREA. SERVICE POLE BY GOVERNMENT SHALL BE NOT LESS THAN 50 FEET FROM THE STRUCTURE AND SHALL INCLUDE A SERVICE ENTRANCE SWITCH. ALSO, A PROPERLY SIZED INTERMEDIATE VALVE-TYPE LIGHTNING ARRESTER SHALL BE PROVIDED ON THE PRIMARY SIDE OF THE DISTRIBUTION TRANSFORMER.
 - FOR THE INSTALLATION BY GOVERNMENT OF A TELEPHONE TYPE CABLE, PROVIDE A 2" CONDUIT WITH PULL WIRE, 2'-0" BELOW FINISHED GRADE AND TERMINATE WITH A PLUGGED COUPLING NOT LESS THAN 5'-0" BEYOND PAVED AREA.
 - LIGHTING FIXTURE FOR LIGHTING THE AREA IN FRONT OF THE ARCH SHALL BE HIGH PRESSURE SODIUM. ALL EXTERIOR LIGHTS SHALL BE CONNECTED ON THE SAME CIRCUIT TO FACILITATE CONTROL AT THE PANELBOARD.
 - SUPPORT CONDUIT AT EACH CIRCUMFERENTIAL LAP USING THE EXTRA LENGTH BOLT WITH DOUBLE NUT INSTALLED DURING ARCH ASSEMBLY. SEE SECTION A/9/9 FOR TYPICAL METHOD.
 - PROVIDE A 2" CONDUIT WITH PULL WIRE, 2'-0" BELOW FINISHED GRADE FOR IDS AND TERMINATE WITH A PLUGGED COUPLING NOT LESS THAN 5'-0" BEYOND PAVED AREA.
 - CAP 1-2" & 2-1" CONDUITS 1'-0" ABOVE FINISHED GRADE AND RESERVE FOR CONNECTION TO IDS.
 - EXTEND CONDUIT AND WIRING AS REQUIRED FROM DOOR CONTROL UNIT TO DOOR OPERATOR ABOVE DOOR. IF OPTIONAL DOOR CONTROLS ARE PROVIDED, EXTEND CONCEALED CONDUIT AND WIRING AS REQUIRED FROM DOOR CONTROL UNIT TO POWER PANEL, IF OPTIONAL DOOR CONTROLS ARE PROVIDED.
 - SEAL ANY CONCRETE PENETRATIONS, REQUIRED FOR WIRING, WITH WATERPROOFING SEALANT.
 - INTERIOR ELECTRICAL EQUIPMENT AND ITS INSTALLATION SHALL CONFORM TO NATIONAL ELECTRICAL CODE NFPA TO LATEST REVISION FOR THE TYPE OF HAZARDOUS LOCATION INVOLVED AND AS A MINIMUM CLASS I, DIVISION II, GROUP D AND CLASS II, DIVISION II, GROUP C.

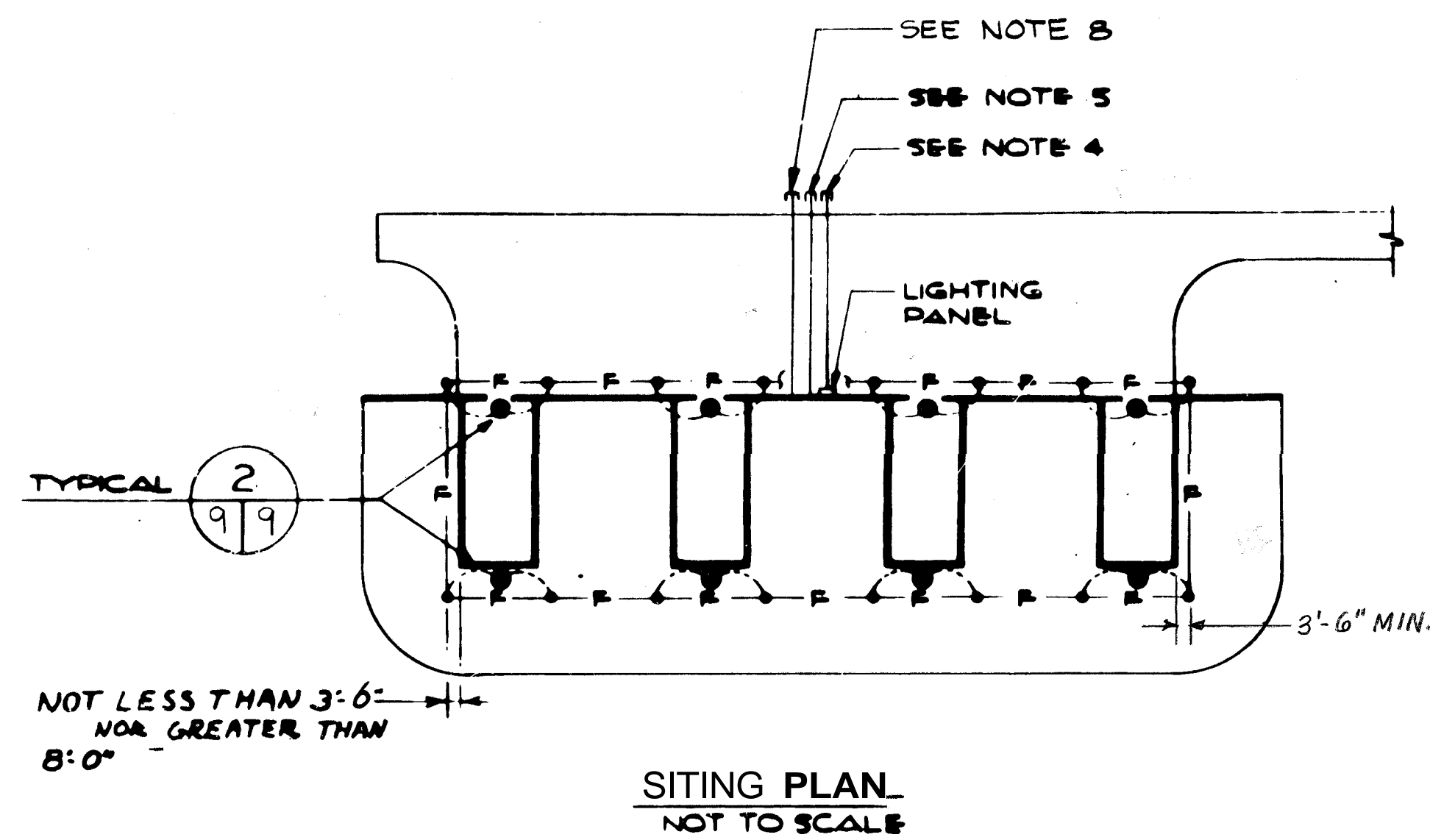


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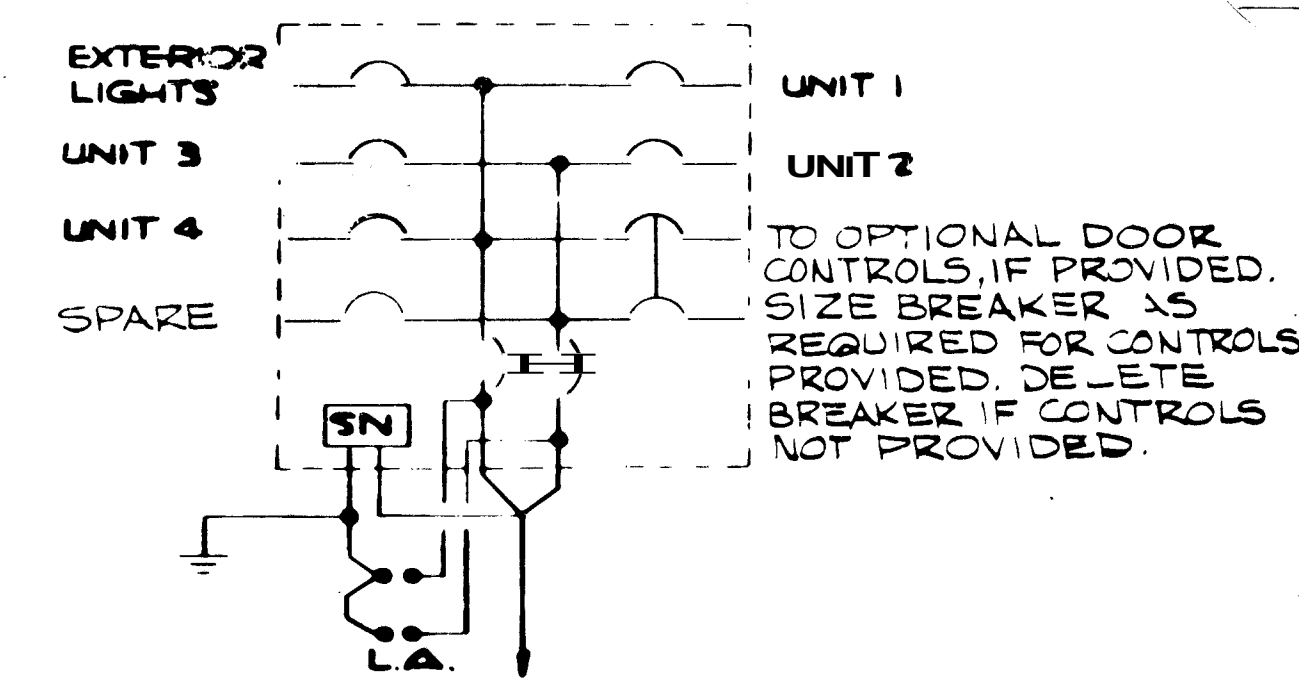
		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOWALL STREET ALEXANDRIA, VA. 22332	
DESIGN BY: DR. CH. [Signature] SUPV. DUTY: CH. ENGR. DLJ SUBMITTED BY: VP 10/24/88 DATE: 10/24/88 NORTHING: [Signature] DATE: [Signature]	STANDARD EARTH-COVERED OVAL COMPPOSITE ARCH MAGAZINE PLAN AND SECTIONS	SIZE CODE IDENT. NO. NAVFAC DRAWING NO. F 80091 1404397	SATISFACTORY TO DOSB DATE: 1-4-89 APPROVED: [Signature] DATE: [Signature] COMMANDER NAVFAC/STC/M
SCALE AS NOTED		SPEC. NFSS-M22 SHEET 8 OF 9	

REVISIONS			
LTR	DESCRIPTION	PREP'D BY	DATE



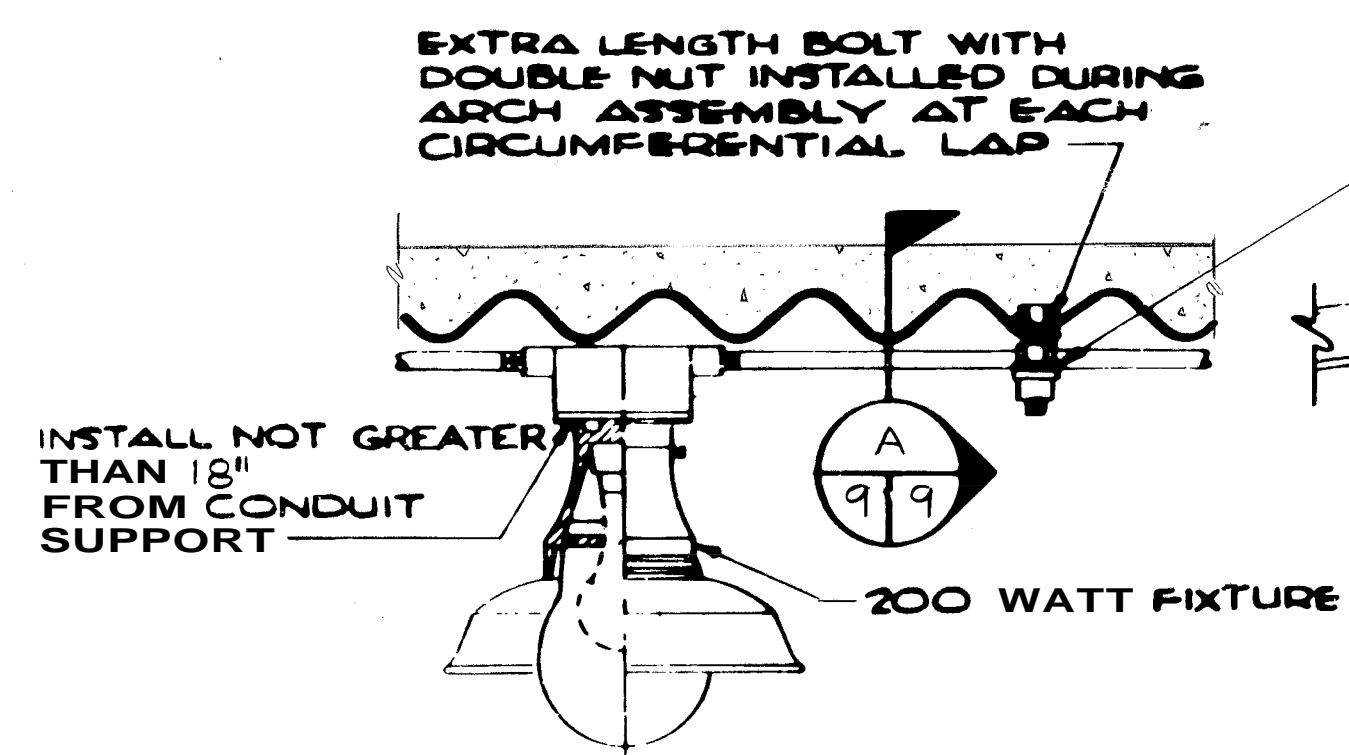
CONNECTED LOAD PER UNIT				
LIGHTING (WATTS)		RECEPTACLES (WATTS)	MOTOR (WATTS)	TOTAL (WATTS)
EXTERIOR	INTERIOR	QTY	SIZE	
100	1000	100	1 2HP 2600	4100

① ASSUMING A 60-FT MAGAZINE

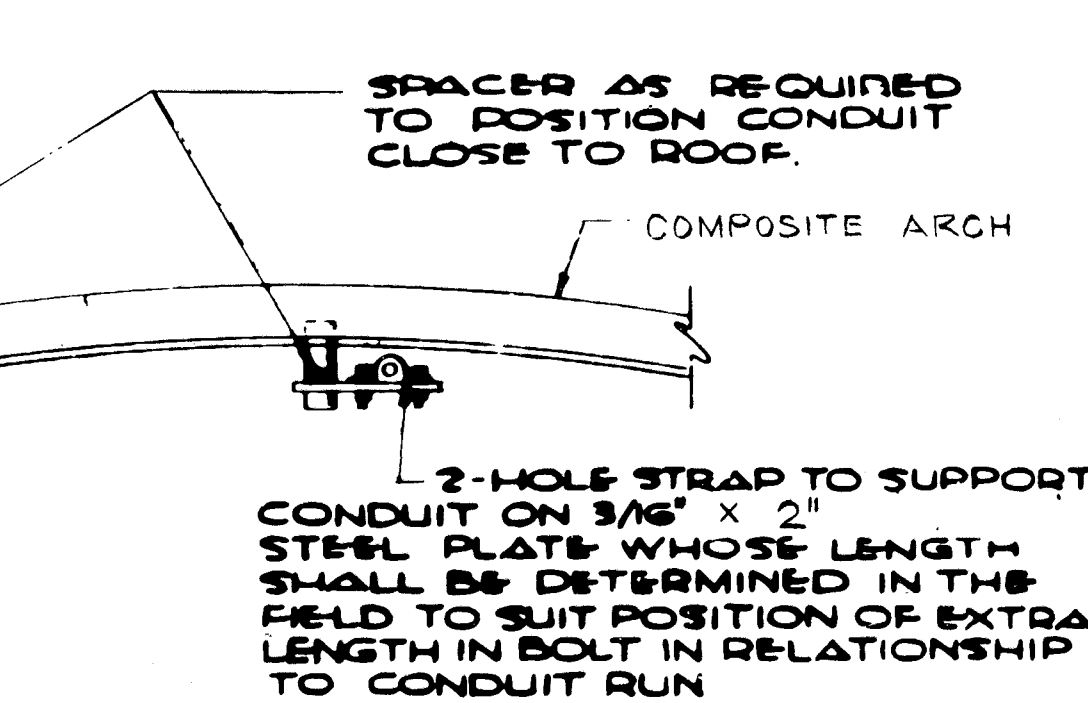


120/240 V 3W 5N SURFACE MOUNTED, WEATHERPROOF C/B PANELBOARD WITH 100 AMP MAINS, 100A MAIN BREAKER IN NEMA 3R ENCLOSURE. BRANCHES: LTG & RCPTS 20A, RCPT GFI TYPE, MOTOR: 2P-30A AIC: 10,000 A SYM.

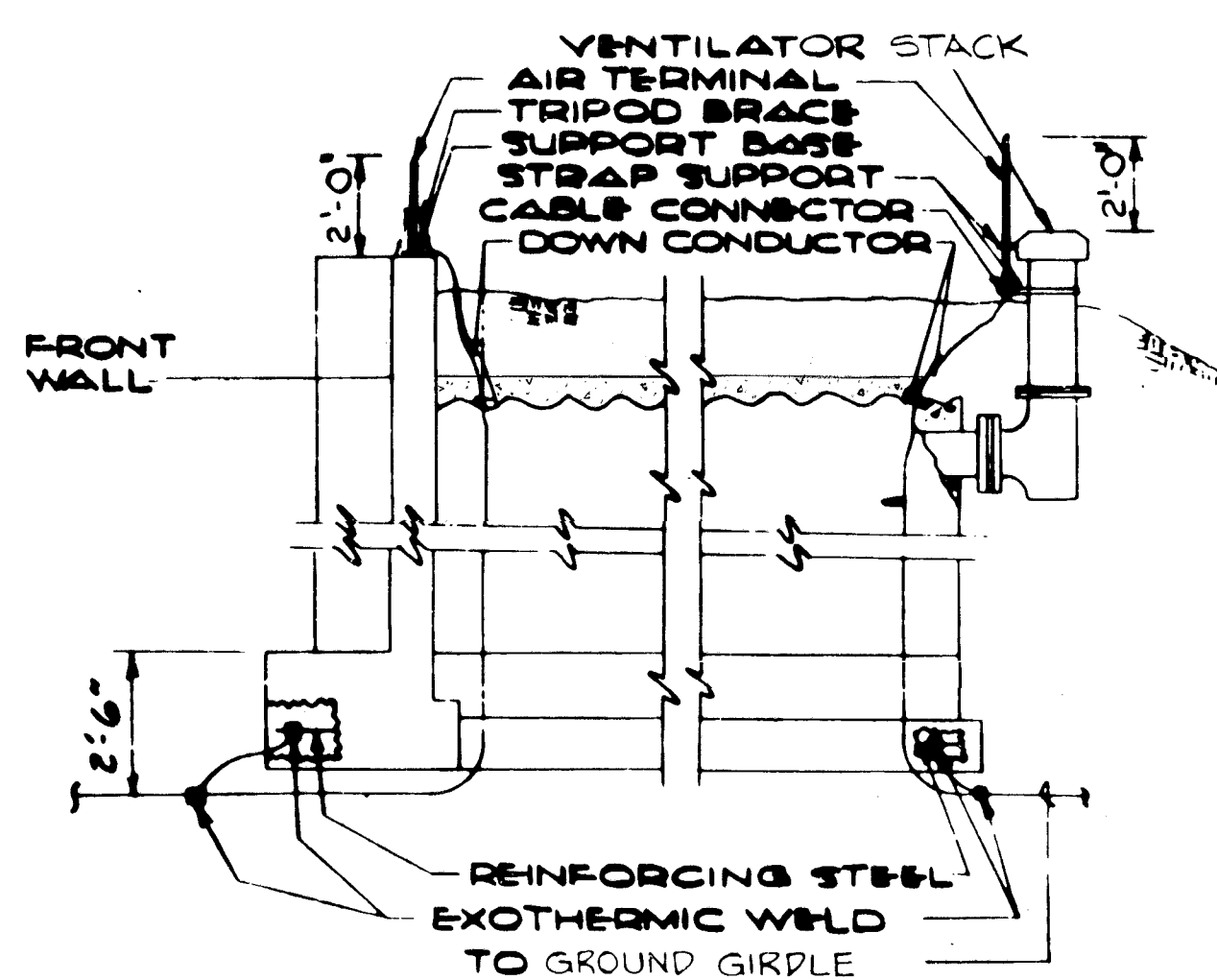
LIGHTING PANELBOARD SCHEMATIC



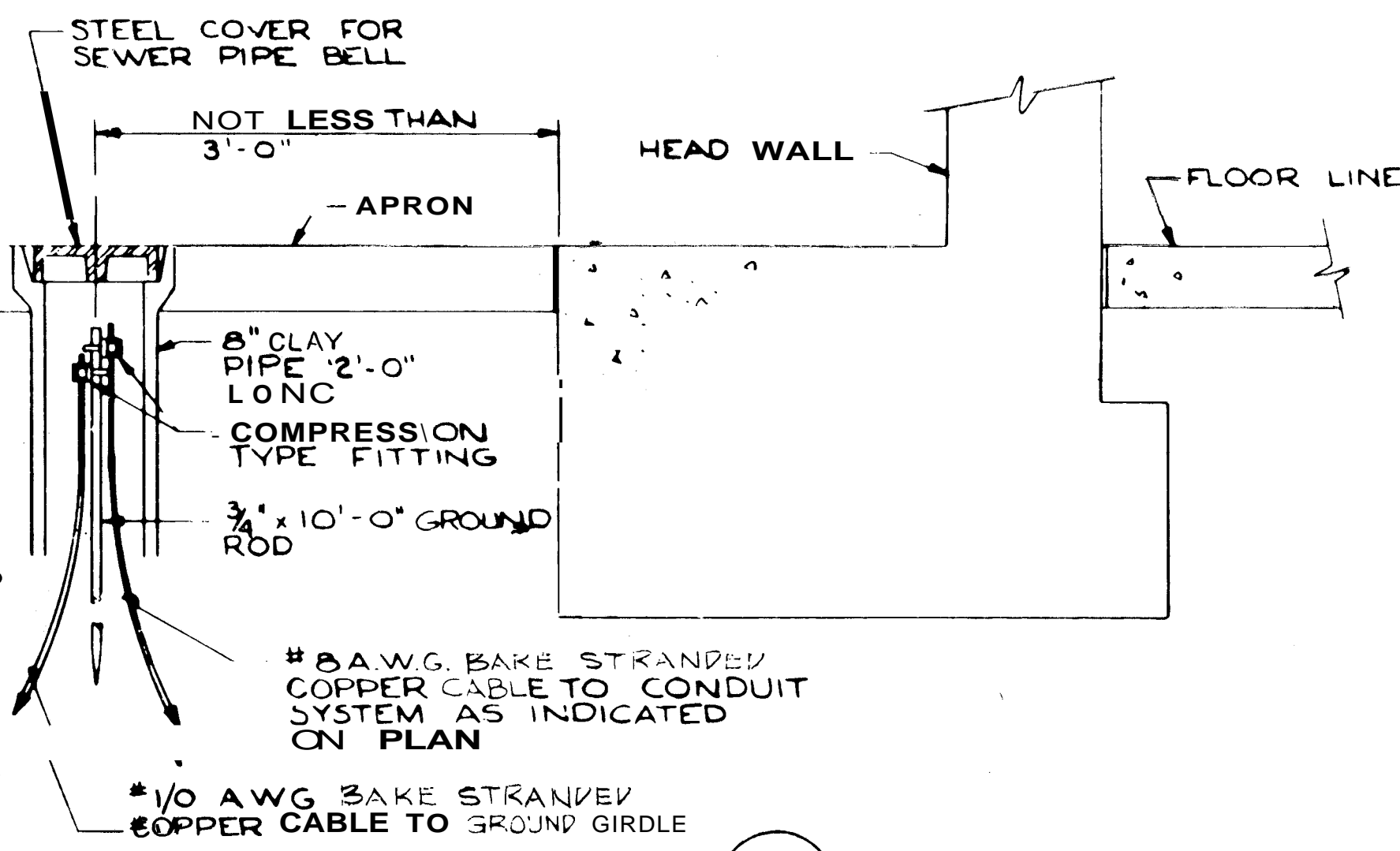
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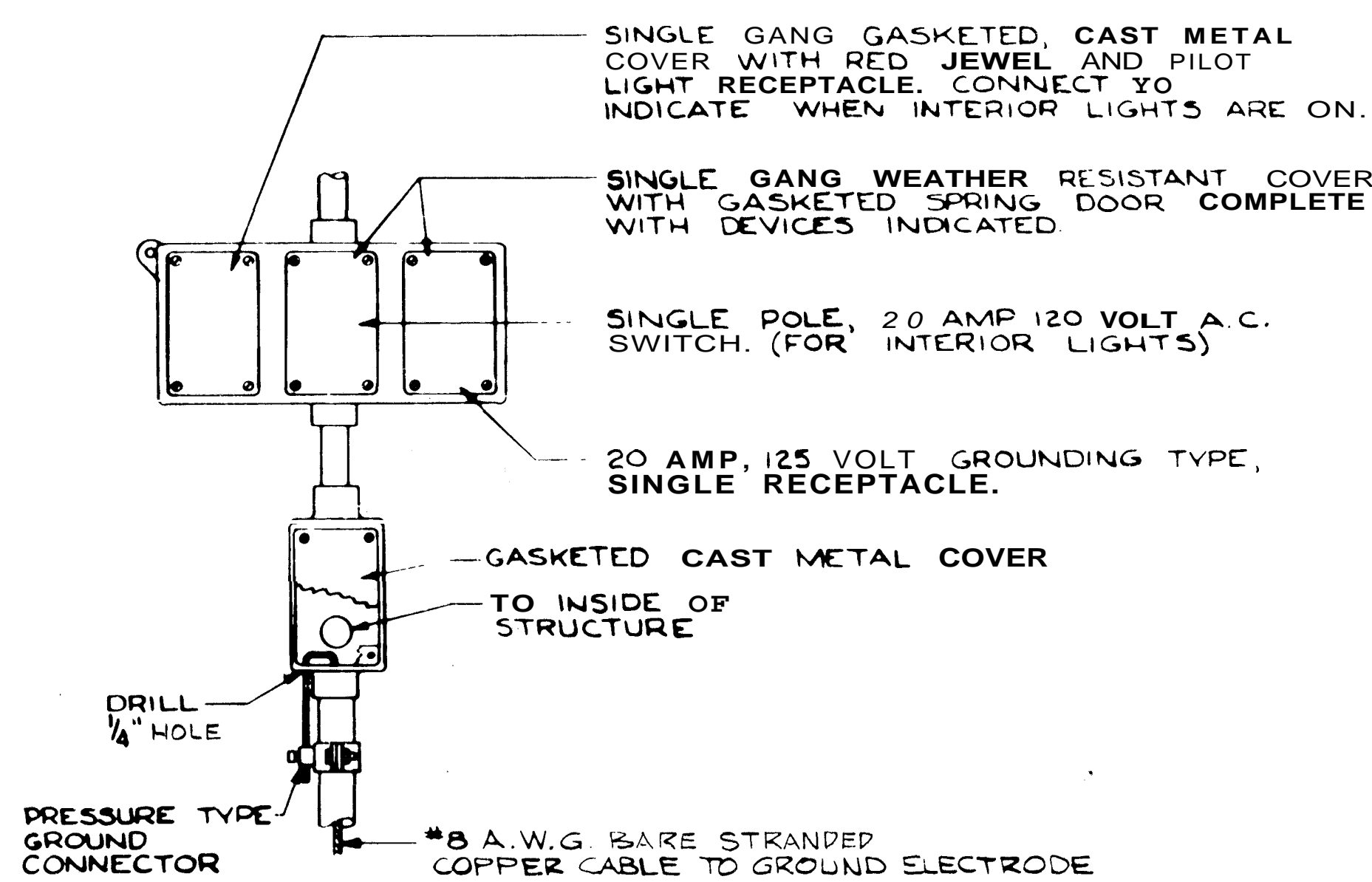
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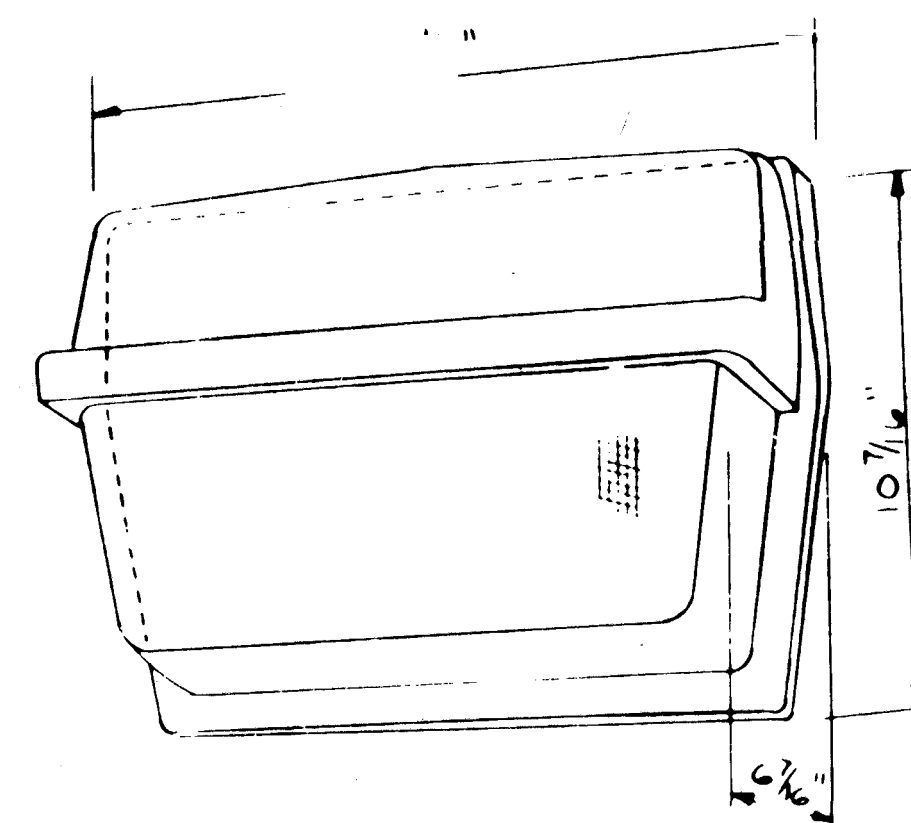
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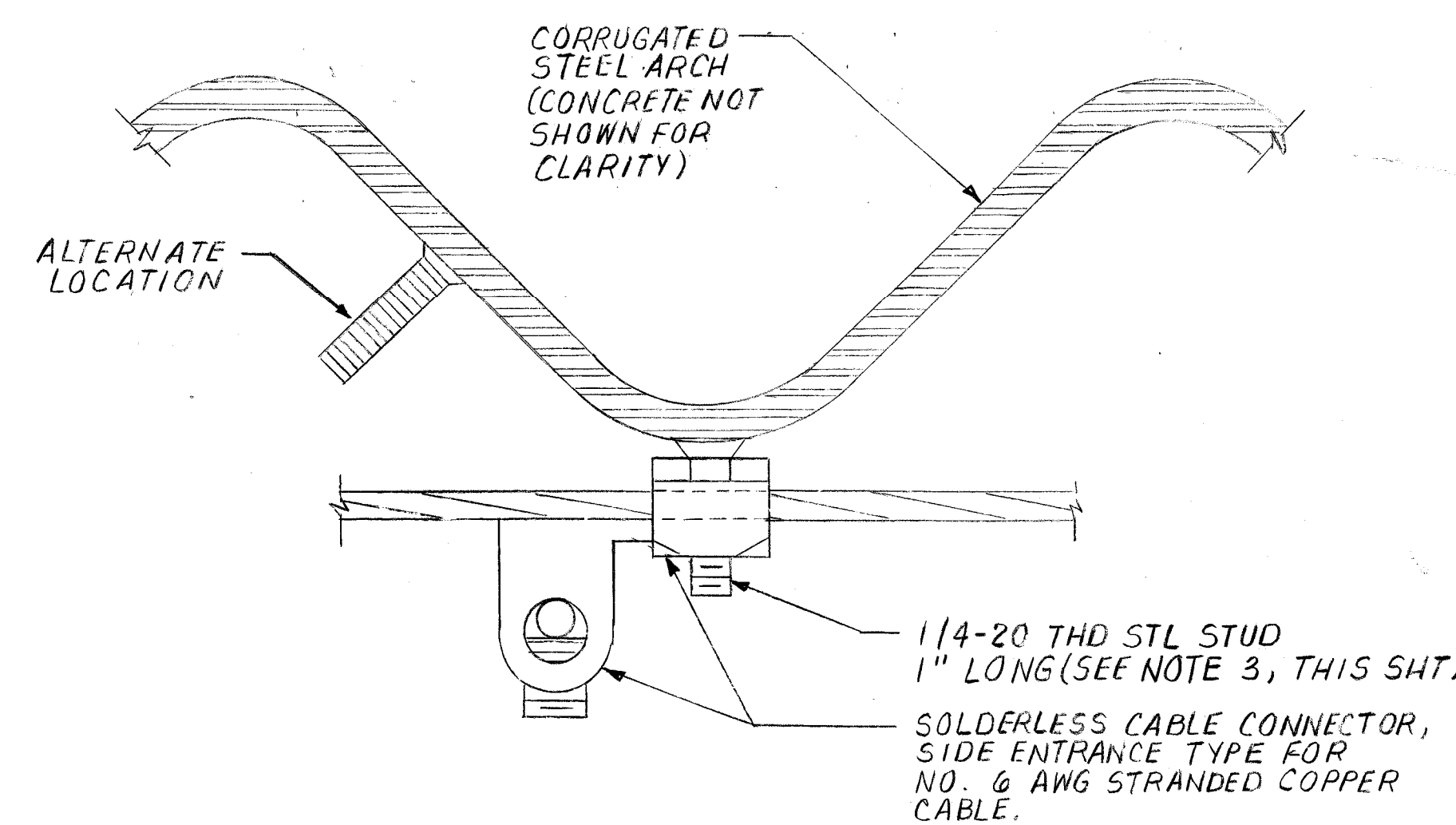
DETAIL 3/8/9 NOT TO SCALE



DETAIL 4/8/9 NOT TO SCALE



TYPE B



WELDED STUD GROUND CONNECTION

DETAIL B/8/9 NOT TO SCALE

NOTES:

- 1... REQUIREMENT: DUE TO SEALING OF JOINTS AND DAMP-PROOFING REQUIRED BY NAFAF STANDARD SPECIFICATIONS M22 INDIVIDUAL STEEL ARCH PLATES (OR MODULAR PANELS) ARE EFFECTIVELY ELECTRICALLY ISOLATED FROM EACH OTHER AND FROM THE EARTH. THE GROUNDING CONNECTIONS SHOWN ON THIS DRAWING SHALL BE APPLIED TO MEET THE ELECTRICAL BONDING REQUIREMENTS OF THE STANDARD SPECIFICATIONS.
- 2... CONNECTIONS: THE GROUNDING CONNECTIONS SHOWN SHALL BE INSTALLED ON THE INTERIOR SURFACE OF THE STEEL ARCH. FOR DETAILS OF THE INTERCONNECTIONS BETWEEN STEEL ARCH AND GROUNDING SYSTEM SEE SHEET 8.
- 3... WELDED STUDS: WELDED STUDS SHALL BE OF THE SIZE AND THE TYPE SHOWN AND BE INSTALLED BY THE SHIELDED ELECTRIC ARC OR CAPACITOR DISCHARGE STUD WELDING PROCESS AS APPROPRIATE FOR MATERIAL THICKNESS. BY MEANS OF MANUAL PORTABLE STUD WELDING EQUIPMENT DESIGNED FOR THE PURPOSE. STUDS SHALL BE LOCATED AS SHOWN ON THE PLANS WITH A MINIMUM OF ONE STUD PER PLATE OR PANEL AND ADDITIONAL STUDS AS REQUIRED TO PROVIDE ADEQUATE SUPPORT OF THE GROUNDING CONDUCTORS. WHERE THE WELDING PROCESS DESTROYS THE GALVANIZING ON THE ARCH STEEL THE AREAS SHALL BE RECOATED BY ZINC SPRAYING TO PROVIDE PROTECTION.
- 4... ALL REINFORCING STEEL IN BUILDING, PLATFORM, RETAINING WALLS, PAVEMENT IN FRONT OF BUILDING, AND ALL METAL PARTS AND EQUIPMENT IN BUILDING SHALL BE BONDED TO GROUND GIRLDE. CONNECTIONS SHALL BE NO. 6 AWG MIN. BARE STRANDED COPPER WIRE OR EQUIVALENT CAPACITY COPPER BRAID STRAP.

LIGHTING FIXTURE SCHEDULE

TYPE		WATTS	VOLTS
A	EXPLOSION PROOF INCANDESCENT CEILING MOUNTED ASSEMBLY WITH CLEAR LAMP GLOBE, GUARD AND DOME REFLECTOR SUITABLE FOR HAZARDOUS LOCATION CLASS I, DIV II, GROUP D AND CLASS II, DIV II, GROUP G	200	120
B	VAPOR TIGHT HIGH PRESSURE SODIUM WALL MOUNTED FIXTURE, ENCLOSED AND GASKETED, WITH CLEAR LAMP, SYMMETRICAL DISTRIBUTION, WITH 150W QUARTZ EMERGENCY STANDBY LIGHT SYSTEM AND CAST GUARD FOR REFRACTOR - TO BE OPERATED BY PHOTO-CELL MOUNTED ABOVE FIXTURE. BALLAST SHALL BE RATED FOR -20°F COLD WEATHER OPERATION.	100	120

NOTES:

1. REFER TO SHEET 8 FOR NOTES AND LEGEND.

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		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332	
DESIGN: <i>[Signature]</i> SUPV DLT: <i>[Signature]</i> SUBMITTED BY: <i>[Signature]</i> DATE: 10/24/84 FTR NUMBER: <i>[Signature]</i> NORTHING: <i>[Signature]</i> DATE: <i>[Signature]</i>		STANDARD EARTH-COVERED OVAL COMPOSITE ARCH MAGAZINE ELECTRICAL DETAILS	
NAVFAC: <i>[Signature]</i> DATE: 7/18/84		SIZE: CODE IDENT. NO. NAVFAC DRAWING NO. F 80091 1404398	
SATISFACTORY TO DDESB: <i>[Signature]</i> DATE: 1-14-86		APPROVED: <i>[Signature]</i> DATE: 10/24/84 SCALE: AS NOTED SPEC. NFSS-M22 SHEET 9 OF 9	