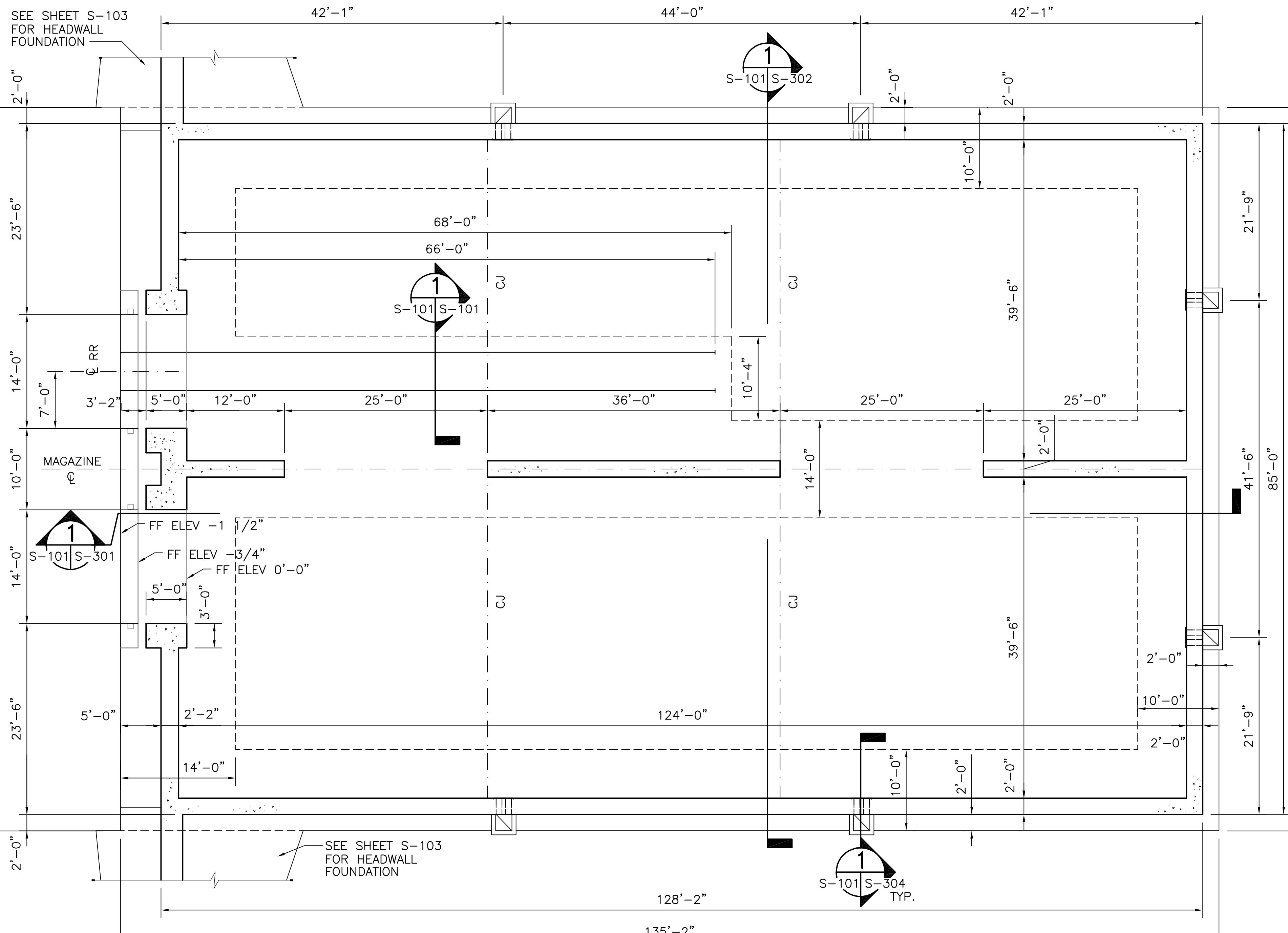


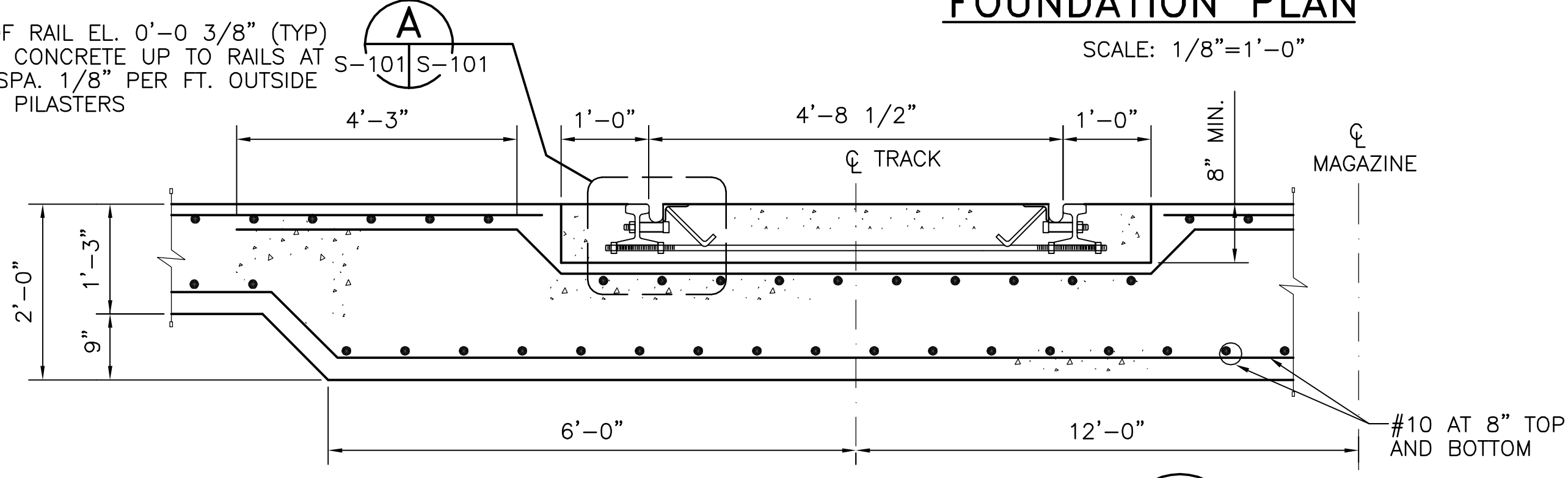
1 2 3 4 5



FOUNDATION PLAN

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

NOTE:
TOP OF RAIL EL. 0'-0 3/8" (TYP)
SLOPE CONCRETE UP TO RAILS AT
MAX. SPA. 1/8" PER FT. OUTSIDE
FRONT PILASTERS



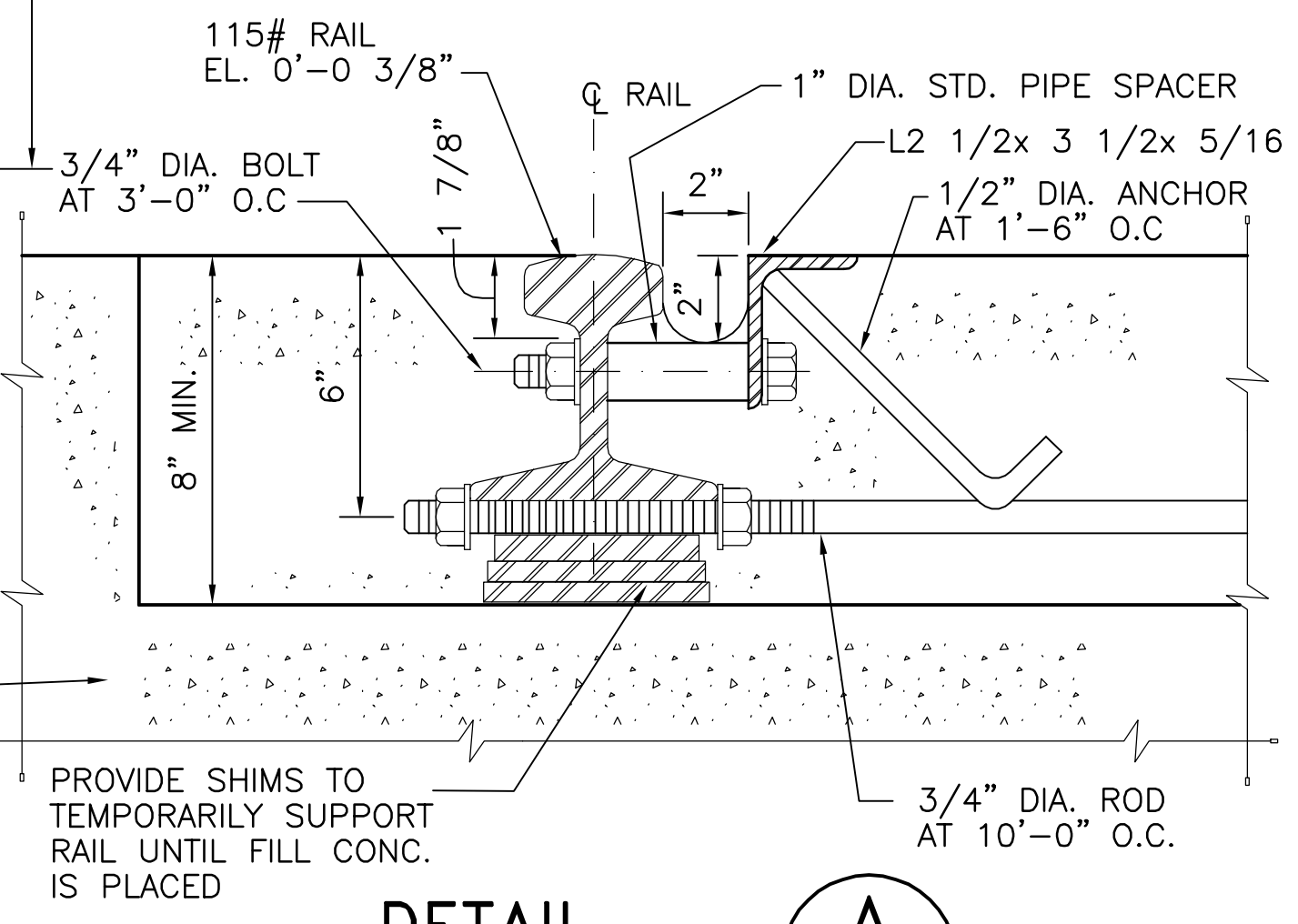
TYPICAL INSIDE RAIL SECTION

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

1

S-101/S-101

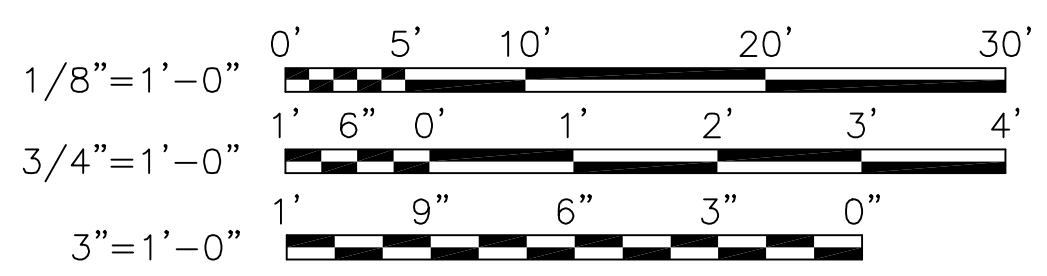
- NOTES:**
1. DETAILS ARE SHOWN FOR THE CONSTRUCTION OF ONE MAGAZINE. ALL MAGAZINES TO BE IDENTICAL.
 2. DIMENSIONS AND REINFORCEMENT TO BE SYMMETRICAL ABOUT CENTERLINE UNLESS NOTED OTHERWISE. NOTE CENTER LINE ON THIS PLAN.
 3. REFER TO CIVIL SHEETS FOR FF ELEVATION.
 4. REFER TO CIVIL DWGS FOR MAGAZINE ORIENTATION.



DETAIL A

SCALE: 3" = 1'-0" S-101/S-101

GRAPHIC SCALE



NO.	DATE	APPROVED	DESCRIPTION

NAVAL FACILITIES ENGINEERING COMMAND

APPROVED _____

ACTIVITY - SATISFACTORY TO _____

DATE _____

APPROVED _____

FOR EFD FOR COMMANDER NAVFAC _____

DATE	A/E	EFD
	DESIGN	
	DRAWN	
	REVIEW	
	OC	
	CHIEF ARCH./ ENGR.	
PROJECT MANAGER		
FIRE PROTECTION		
BRANCH MANAGER		
DESIGN DIRECTOR		

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND

BOX MAGAZINE - TYPE M

FOUNDATION PLAN (RAIL ROAD OPTION)

CODE ID. NO. 80091	SIZE D
SCALE: AS NOTED	
EFD NO. _____	
STA. PROJ. NO. _____	
SPEC. NO. _____	
CONSTR. CONTR. NO. _____	
NAVFAC DRAWING NO. 10400002	
SHEET 2 OF 27	
S-101	

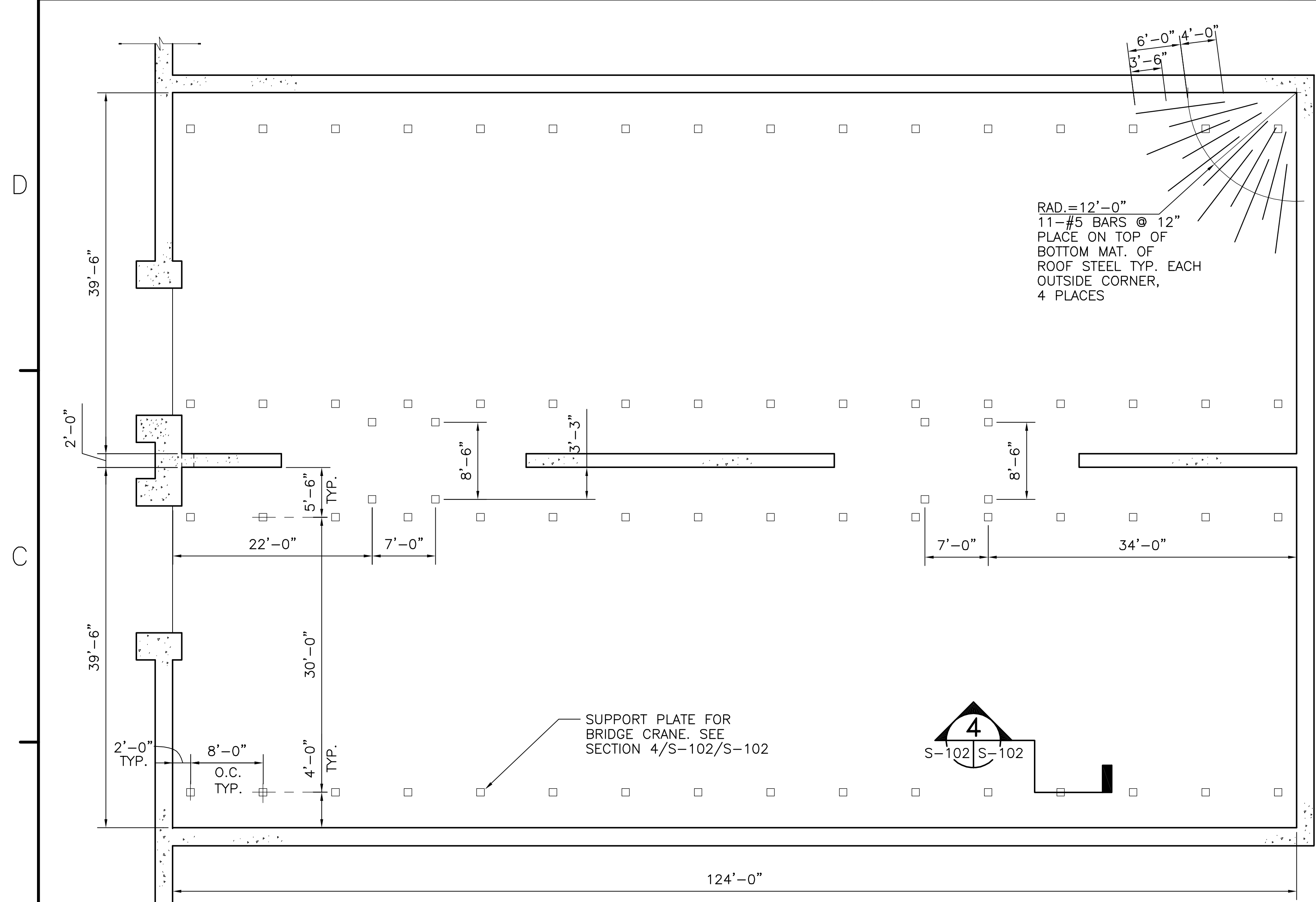
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1 2 3 4 5

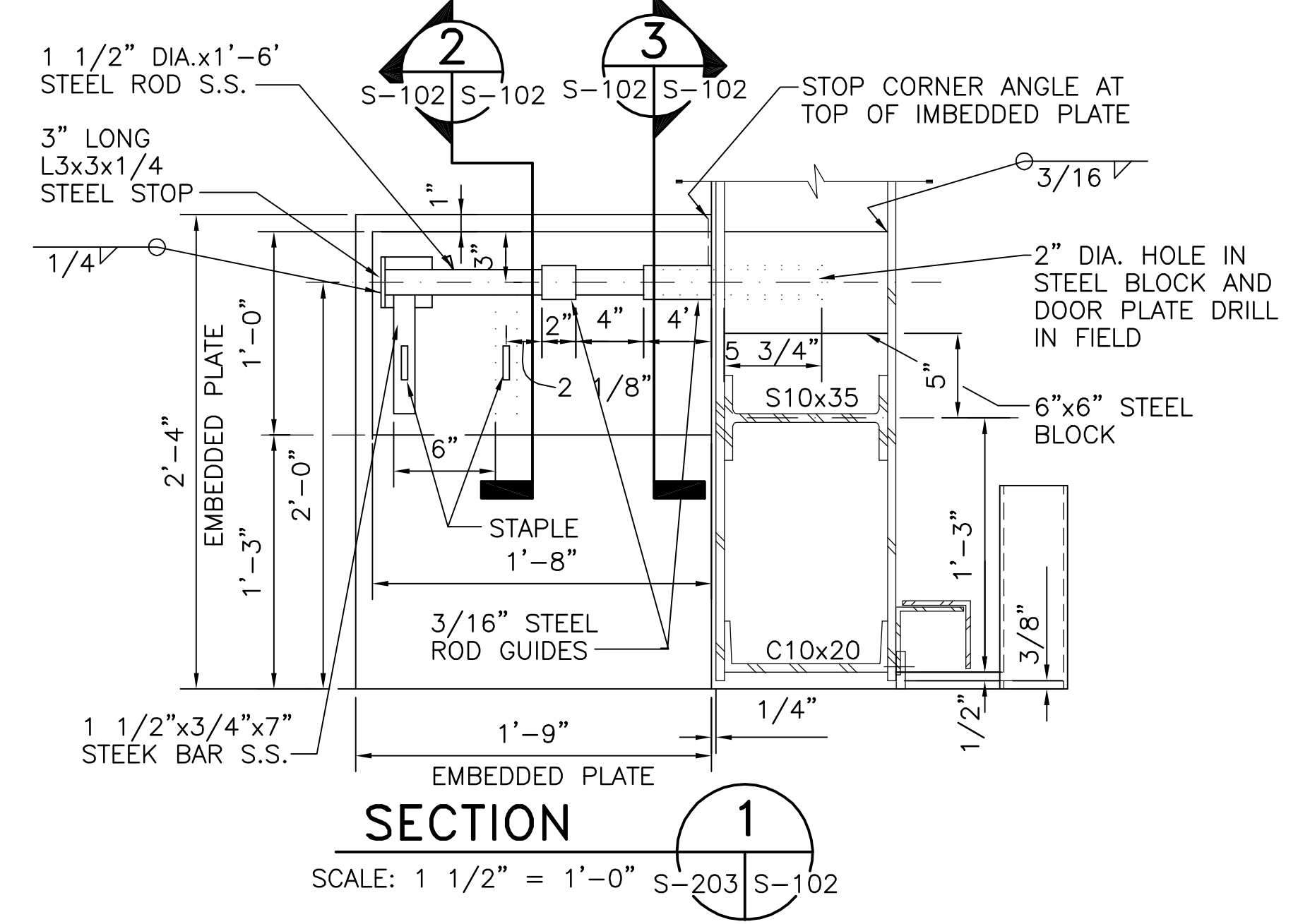
1 2 3 4 5

INSTALLATION PROCEDURE FOR INTERIOR CANE BOLT

1. INSTALL THE DOOR LOCK ASSEMBLY ON THE PILASTER.
2. OPEN AND CLOSE MAGAZINE DOOR SEVERAL TIMES AND EACH TIME THE DOOR STOPS IN CLOSED POSITION MARK THE LOCATION OF CONTACT OF 1- 1/2" STEEL ROD ON 6"x6" STEEL BLOCK.
3. REMOVE ANY OBSTRUCTIONS UNTIL THE CONTACT LOCATION IS SATISFACTORILY ESTABLISHED.
4. DRILL HOLE IN STEEL BLOCK AS INDICATED IN STEEL MOUNTING PLATE DETAIL THIS SHEET.



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



SECTION 1
SCALE: 1 1/2" = 1'-0" S-203 S-102

NOTE:
THE EMBEDDED CEILING PLATES FOR RUNWAY MUST BE WITHIN ± 1/4" IN HORIZONTAL LINE, HEIGHT MUST BE WITHIN -0", + 1/2" ABOVE THE INDICATED ELEVATIONS. STRAIGHT LINE TOLERANCES TO THE CENTER OF THE RUNWAY PLATES FROM THE MIDDLE OF CENTER WALL MUST BE WITHIN 1/2".

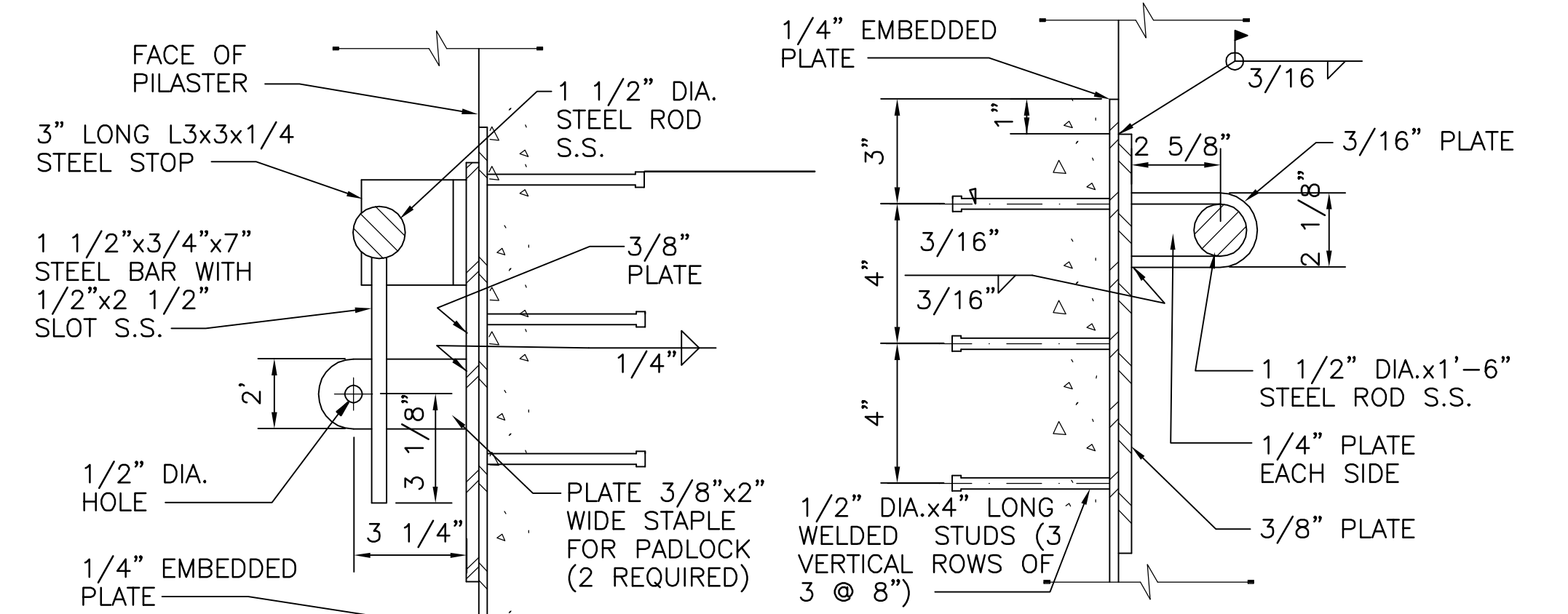
CONCRETE ROOF CONSTRUCTION TOLERANCE MUST BE WITHIN ± 1/2" ABOVE THE INDICATED ELEVATIONS.

A. BOTTOM SIDE OF PLATES LOCATED 4'-0" FROM THE INTERIOR FACE OF THE EXTERIOR WALLS IS AT: EL 24'-7" ABOVE FF EL

B. BOTTOM SIDE OF PLATES LOCATED 34'-0" FROM THE INTERIOR FACE OF THE EXTERIOR WALLS IS AT: EL 25'-2" ABOVE FF EL

C. BOTTOM SIDE OF PLATES EMBEDDED IN THE BOTTOM OF CENTER WALL BEAM IS AT: EL 23'-0" ABOVE FF EL

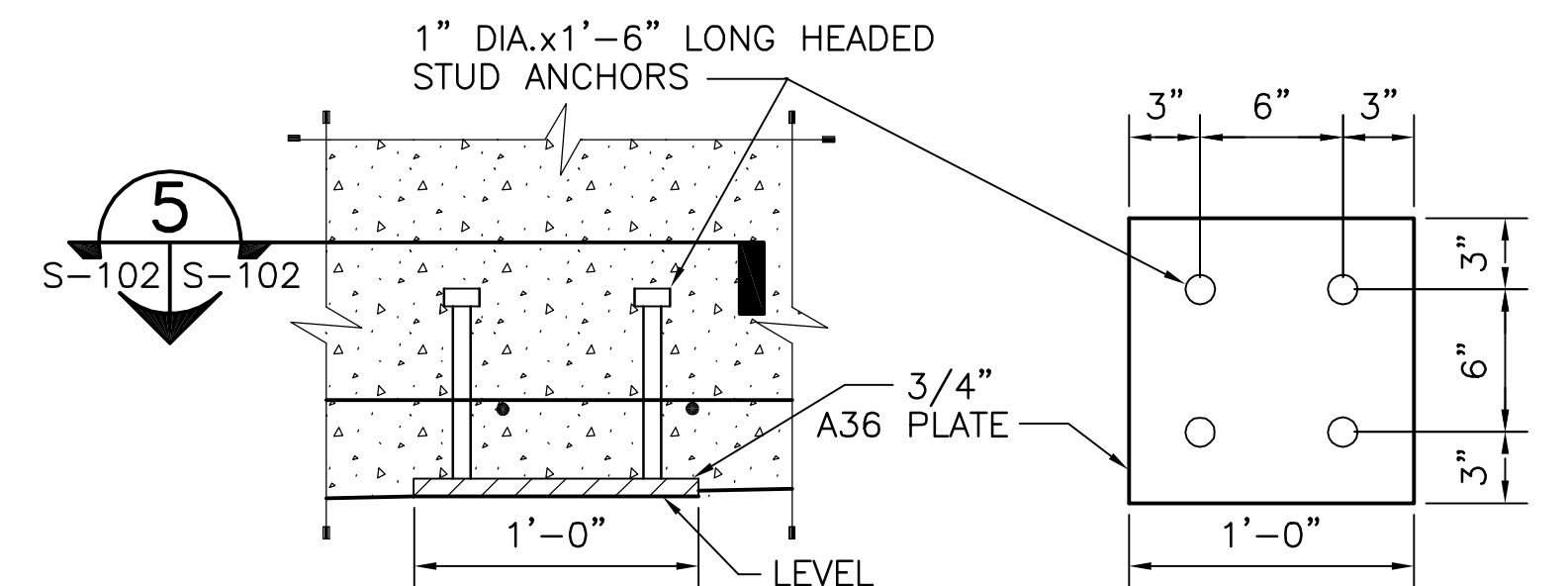
FILENAME: STD/MAC-M-REV-S-102.DWG, UPDATED ON 10/08/02 AT 07:46, XREFS: NONE



SECTION 2
SCALE: 3" = 1'-0" S-102 S-102

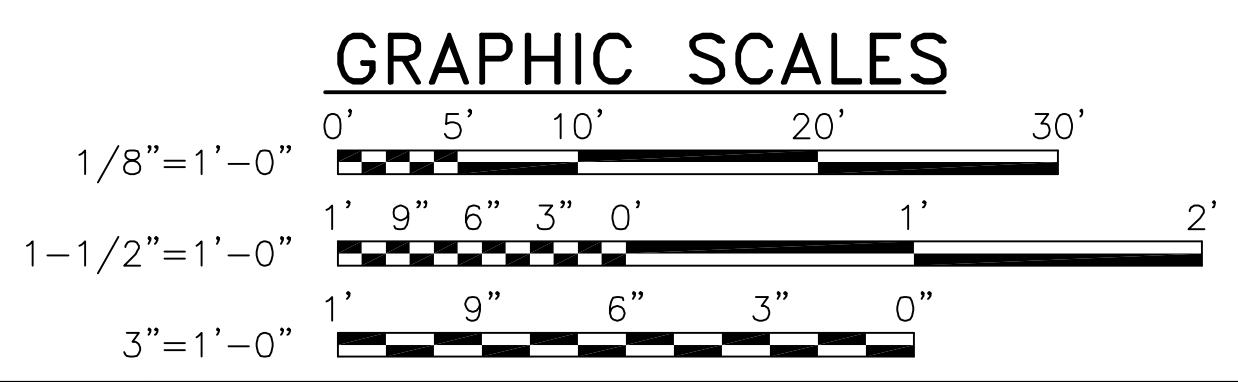
SECTION 3
SCALE: 3" = 1'-0" S-102 S-102

INTERIOR LOCKING CANE BOLT SYSTEM



SECTION 4
SCALE: 1 1/2" = 1'-0" S-102 S-102

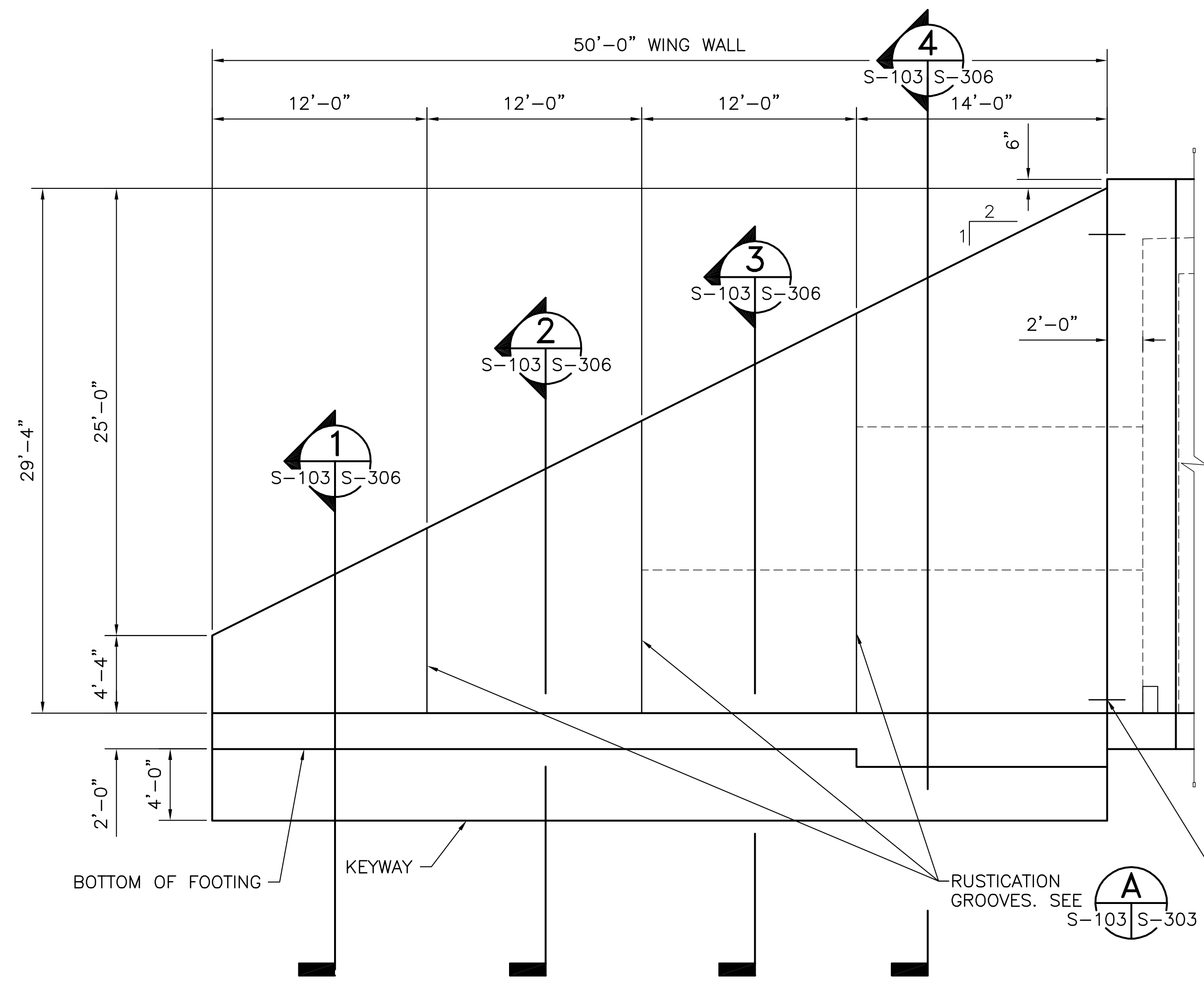
SECTION 5
SCALE: 1 1/2" = 1'-0" S-102 S-102



DATE	APPR.	DESCRIPTION																
DATE	APPR.	DESCRIPTION																
DATE	APPR.	DESCRIPTION																
NAVAL FACILITIES ENGINEERING COMMAND																		
FOR EFD FOR COMMANDER NAVFAC																		
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DATE	A/E	EFD																
DESIGN	DRAWN	REVIEW																
OC	CHIEF ARCH/ ENGR.	PROJECT MANAGER																
APPROVED	FIRE PROTECTION	BRANCH MANAGER																
DESIGN DIRECTOR																		
DEPARTMENT OF THE NAVY																		
NAVAL FACILITIES ENGINEERING COMMAND																		
BOX MAGAZINE - TYPE M																		
ROOF PLAN, ELEVATION, SECTIONS AND DETAILS																		
<table style="width: 100%; border: none;"> <tr> <td style="border: none;">CODE ID. NO. 80091</td> <td style="border: none;">SIZE D</td> </tr> <tr> <td style="border: none;">SCALE: AS NOTED</td> <td style="border: none;">EFD NO.</td> </tr> <tr> <td style="border: none;">STA. PROJ. NO.</td> <td style="border: none;">SPEC. NO.</td> </tr> <tr> <td style="border: none;">CONSTR. CONTR. NO.</td> <td style="border: none;"></td> </tr> </table>				CODE ID. NO. 80091	SIZE D	SCALE: AS NOTED	EFD NO.	STA. PROJ. NO.	SPEC. NO.	CONSTR. CONTR. NO.								
CODE ID. NO. 80091	SIZE D																	
SCALE: AS NOTED	EFD NO.																	
STA. PROJ. NO.	SPEC. NO.																	
CONSTR. CONTR. NO.																		
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SHEET 4 OF 27																		
S-102																		
DRAWING REVISION MAY 2000																		

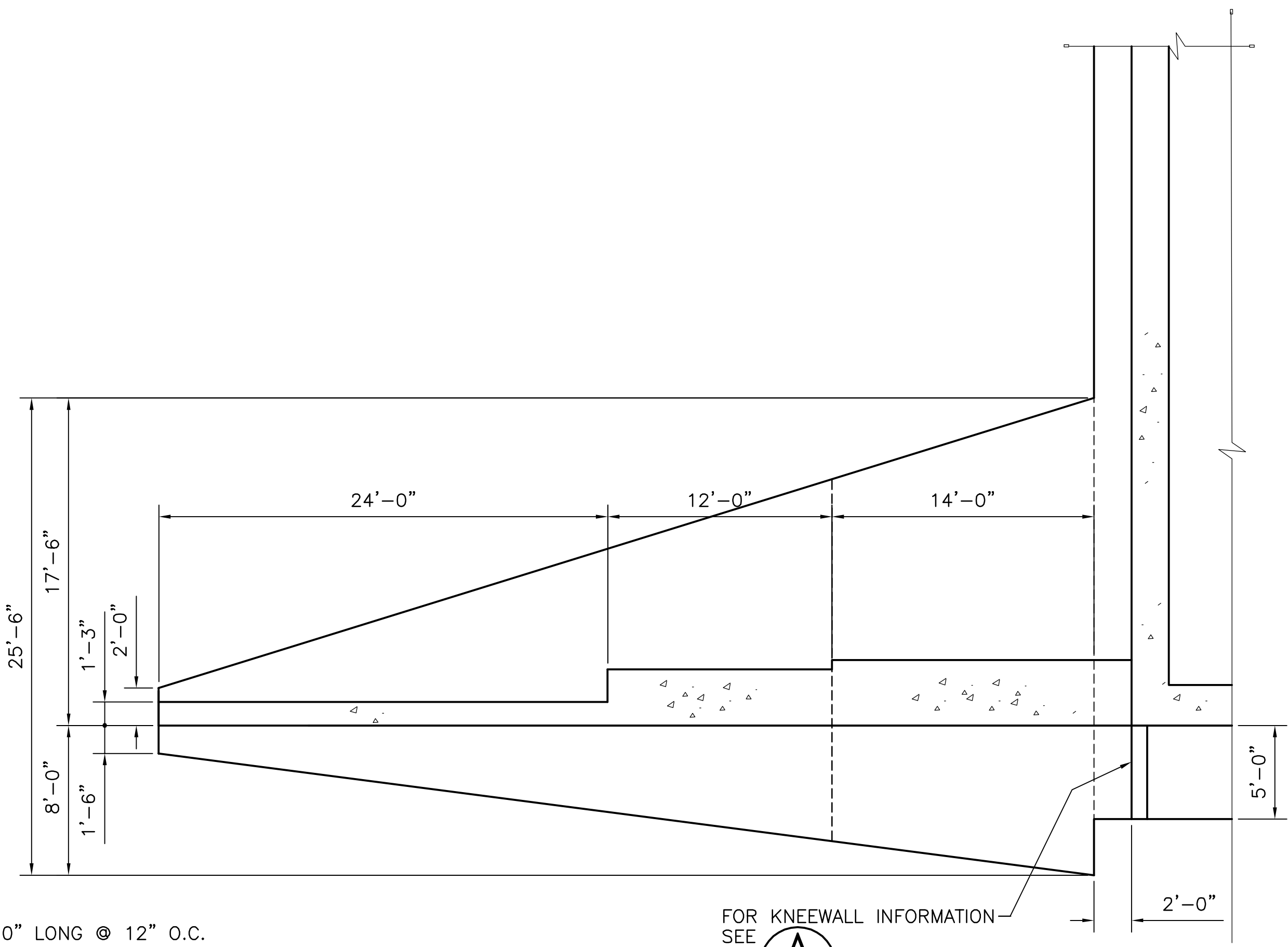
1 2 3 4 5

FILENAME: STD/MAG-M-REV-S103.DWG, UPDATED ON 10/08/02 AT 07:47, XREFS: NONE



FRONT WINGWALL ELEVATION

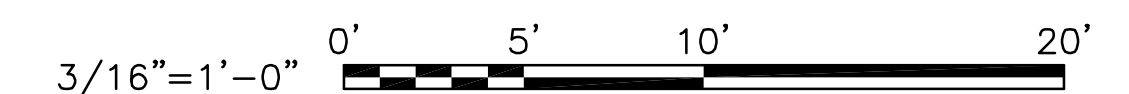
SCALE: 3/16" = 1'-0"



FRONT HEADWALL PLAN

SCALE: 3/16" = 1'-0"

GRAPHIC SCALES



DATE	APPROVED	
DATE	DESCRIPTION	SYMBOL

NAVAL FACILITIES ENGINEERING COMMAND

APPROVED _____ SEAL

ACTIVITY - SATISFACTORY TO _____

DATE _____ APPROVED _____

FOR EFD FOR COMMANDER NAVFAC

DATE _____

A/E _____ EFD _____

DESIGN _____

DRAWN _____

REVIEW _____

OC _____

CHEF ARCH/ ENGR. _____

PROJECT MANAGER _____

FIRE PROTECTION _____

BRANCH MANAGER _____

DESIGN DIRECTOR _____

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND

BOX MAGAZINE - TYPE M

FRONT WINGWALL PLAN AND ELEVATION

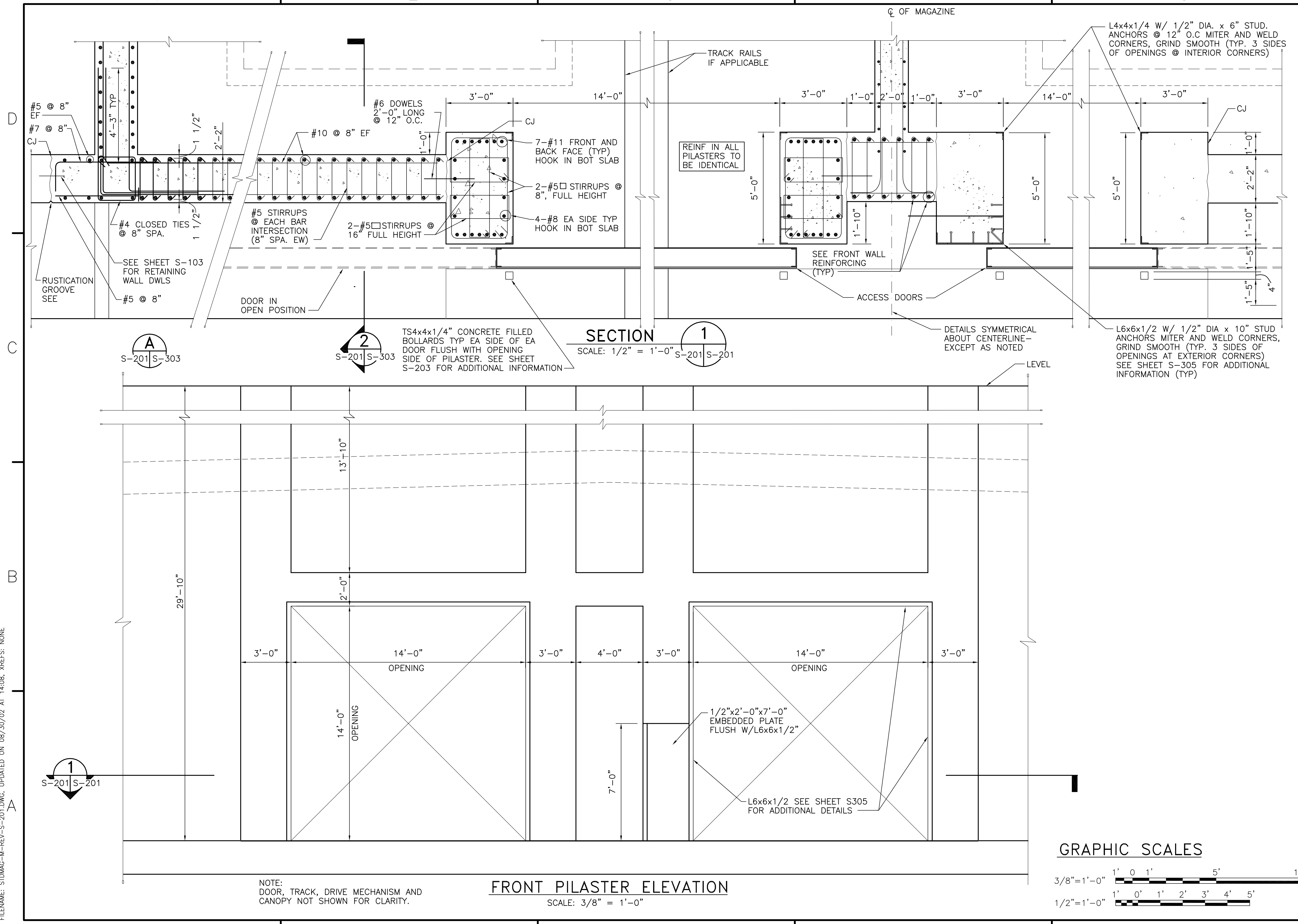
CODE ID. NO. 80091	SIZE D
SCALE: AS NOTED	
EFD NO.	
STA. PROJ. NO.	
SPEC. NO.	
CONSTR. CONTR. NO.	

NAVFAC DRAWING NO. 10400005
SHEET 5 OF 27

S-103

DRAWFORM REVISION MAY 2000

FILENAME: STD/MAG-M-REV-S-201.DWG, UPDATED ON 08/30/02 AT 14:08, XREFS: NONE



NO.	DATE	APPR.	DESCRIPTION

NAVAL FACILITIES ENGINEERING COMMAND

APPROVED _____

ACTIVITY - SATISFACTORY TO _____

DATE _____

APPROVED _____

FOR EFD FOR COMMANDER NAVFAC _____

DATE _____

A/E _____ EFD _____

DESIGN _____

DRAWN _____

REVIEW _____

OC _____

CHEF ARCH/ ENGR. _____

PROJECT MANAGER _____

FIRE PROTECTION _____

BRANCH MANAGER _____

DESIGN DIRECTOR _____

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND

BOX MAGAZINE - TYPE M

FRONT ELEVATION AND SECTIONS

CODE ID. NO. 80091 SIZE D

SCALE: AS NOTED

EFD NO. _____

STA. PROJ. NO. _____

SPEC. NO. _____

CONSTR. CONTR. NO. _____

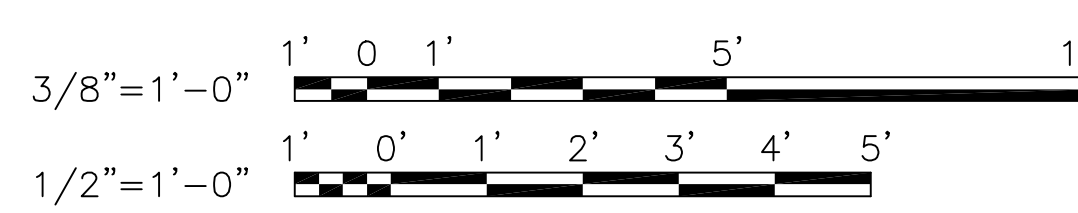
NAVFAC DRAWING NO. 10400006

SHEET 6 OF 27

S-201

DRAWING REVISION MAY 2000

GRAPHIC SCALES



FRONT PILASTER ELEVATION
SCALE: 3/8" = 1'-0"

NOTE:
DOOR, TRACK, DRIVE MECHANISM AND
CANOPY NOT SHOWN FOR CLARITY.

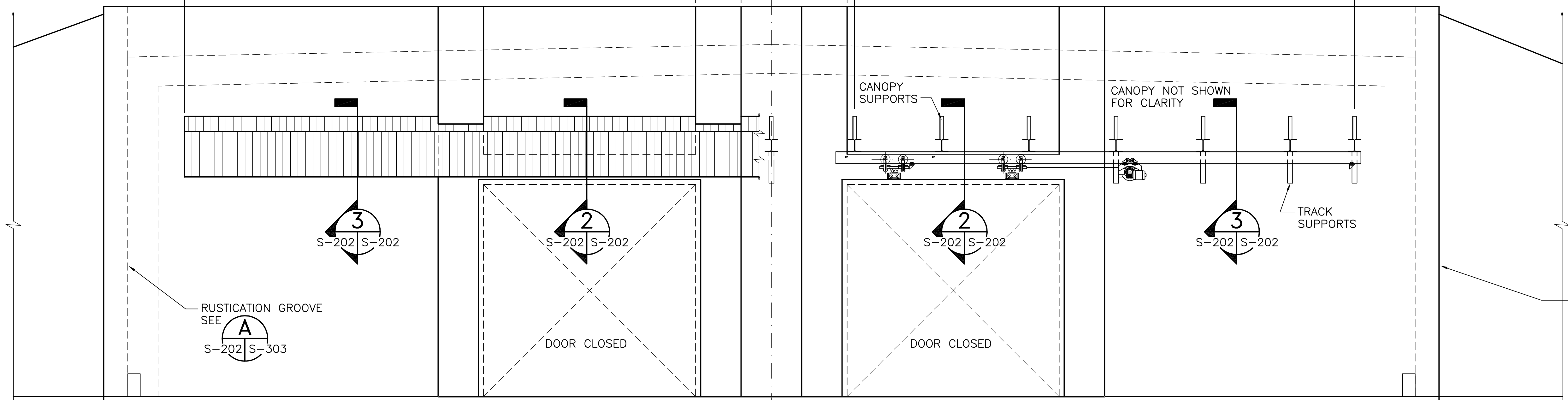
1 2 3 4 5

40'-0"

39'-0"

5 SPACES @ 5'-9" = 28'-9"

NOTE:
CANOPY TO BE CONTINUOUS ACROSS FRONT OF MAGAZINE.



(SHOWING DOOR TRACK AND CANOPY)

EXTERIOR FRONT ELEVATION

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

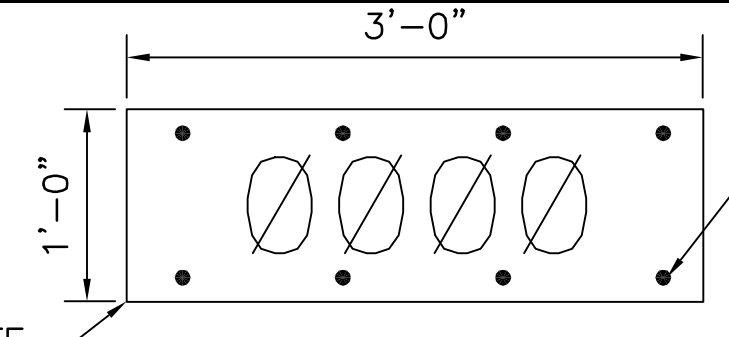


PLATE DETAIL

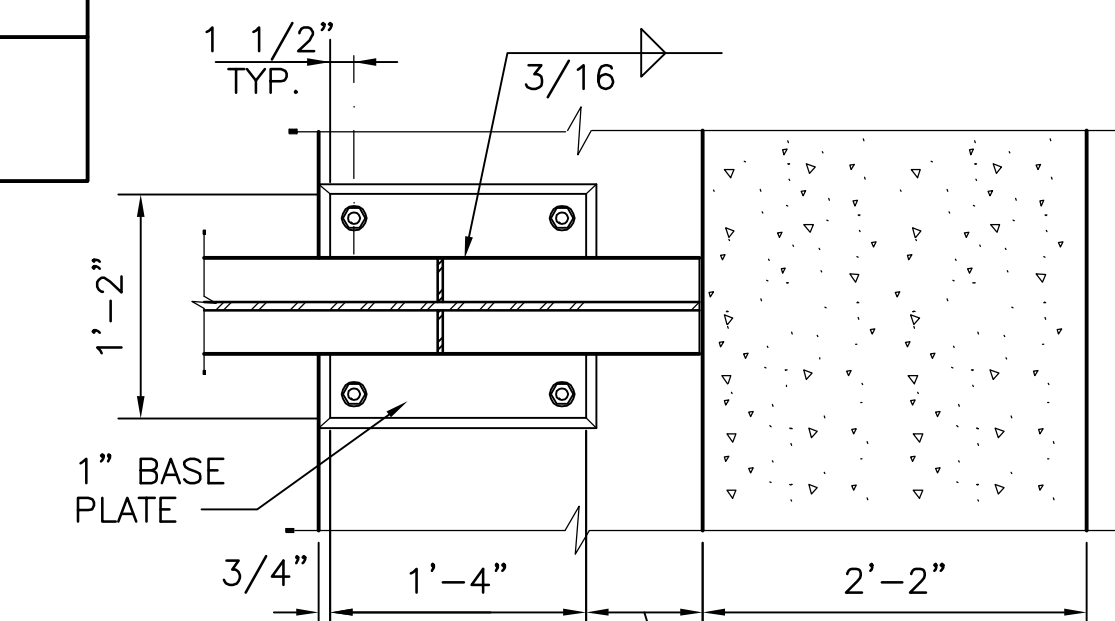
SCALE: 1" = 1'-0"

ATTACH TO CANOPY
W/ S.S. SCREWS @
12" O.C. MAX.

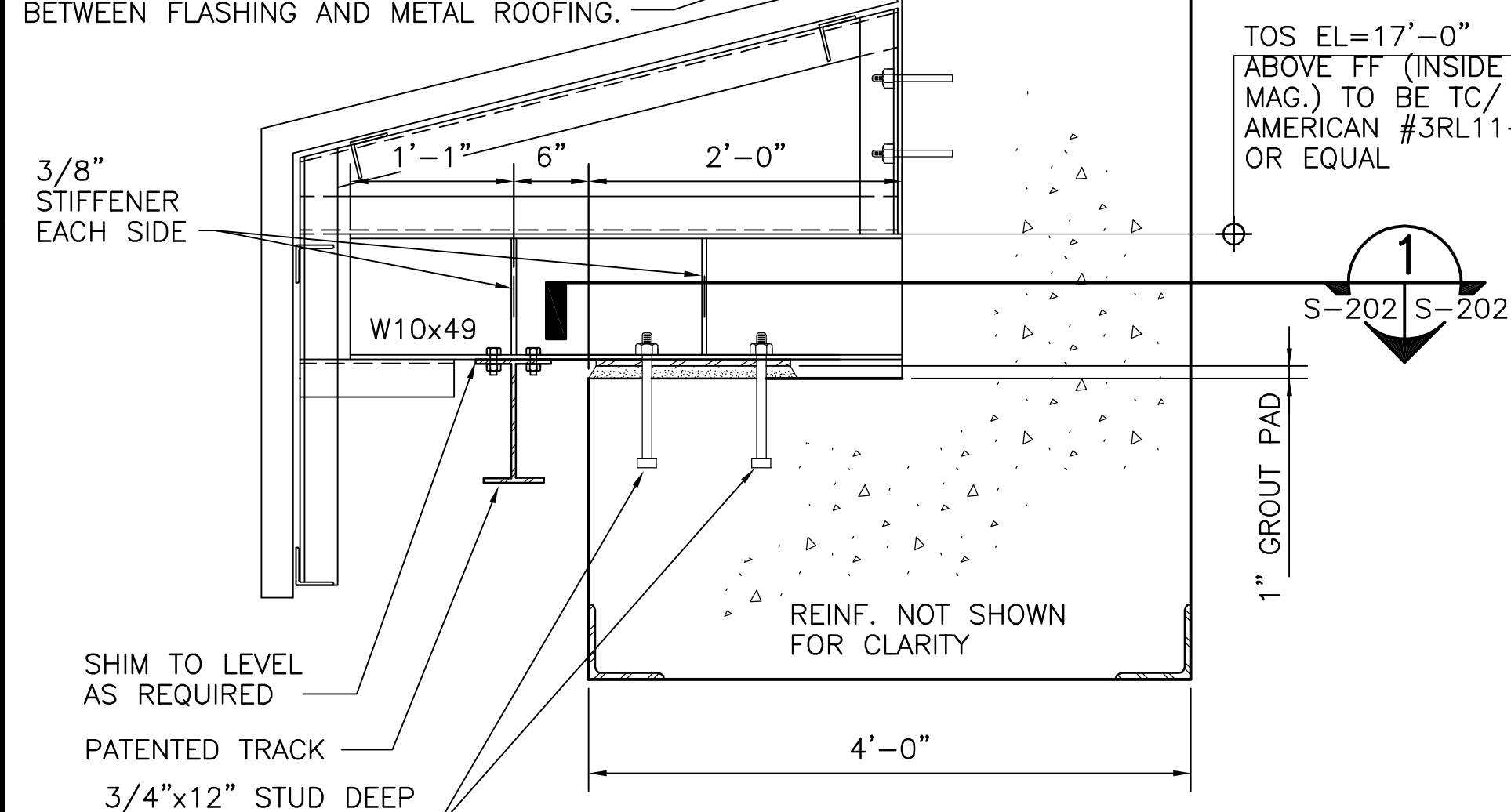
NOTE:
PLATES TO BE PAINTED WITH A WHITE BACKGROUND AND 9" HIGH BLACK NUMBERS. BUILDING NMEBERS TO BE FURNISHED BY ROICC. CENTER PLATE ON CANOPY BETWEEN DOORS.

SECTION 1

SCALE: 1" = 1'-0" S-202 S-202



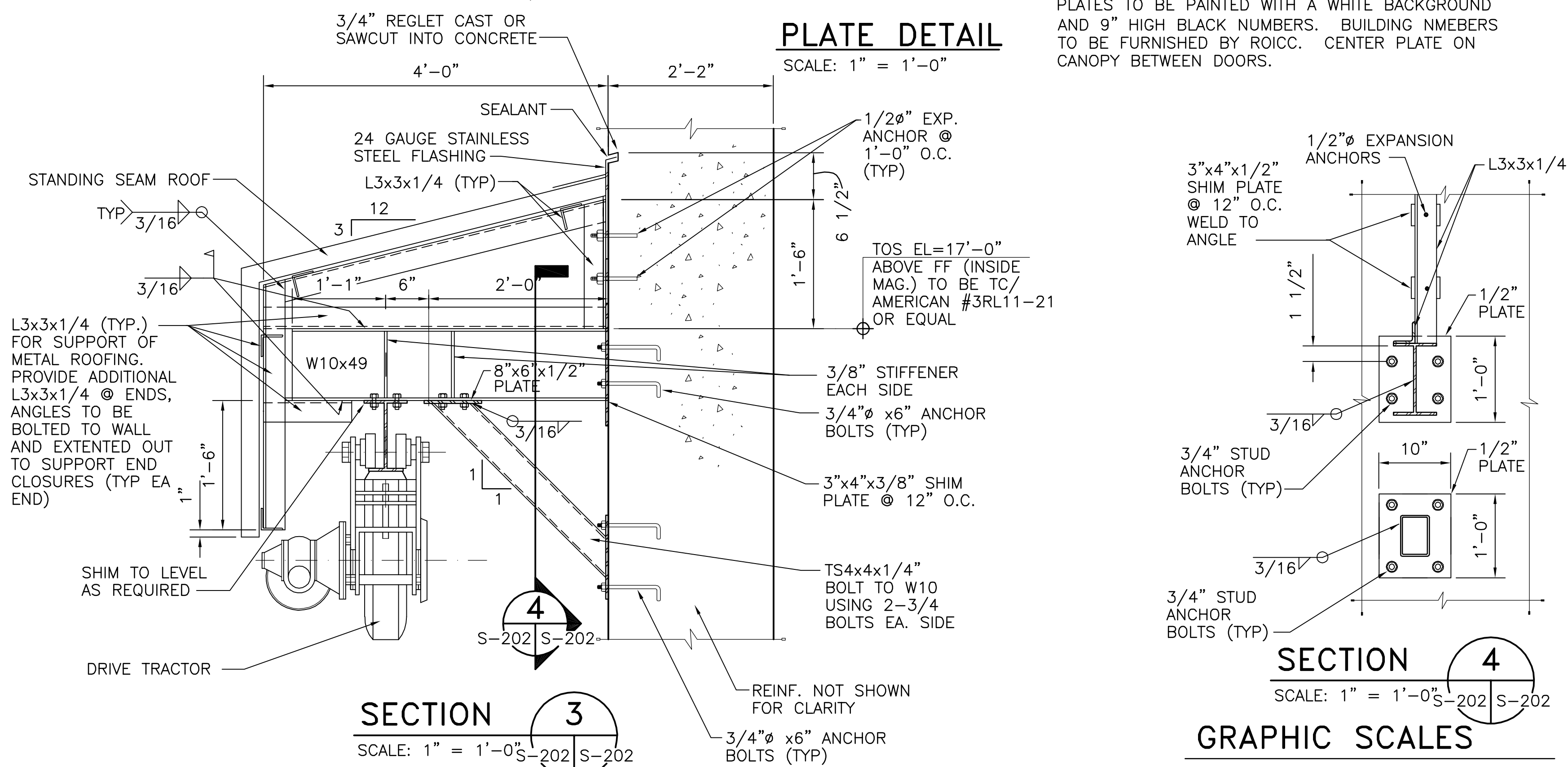
INSTALL FLASHING INTO REGLET ACCORDING TO SMACNA ARCHITECTURAL MANUAL PLATE 49 FIGURE B. PROVIDE NEOPRENE CLOSURE BETWEEN FLASHING AND METAL ROOFING.



SECTION 2

SCALE: 1" = 1'-0" S-202 S-202

NOTE:
SAME AS SECTION 3/S202/S202 EXCEPT AS NOTED



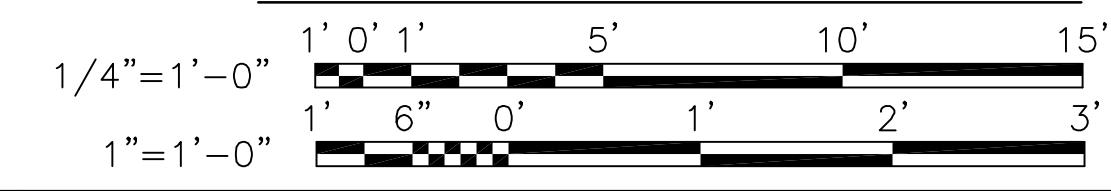
SECTION 3

SCALE: 1" = 1'-0" S-202 S-202

SECTION 4

SCALE: 1" = 1'-0" S-202 S-202

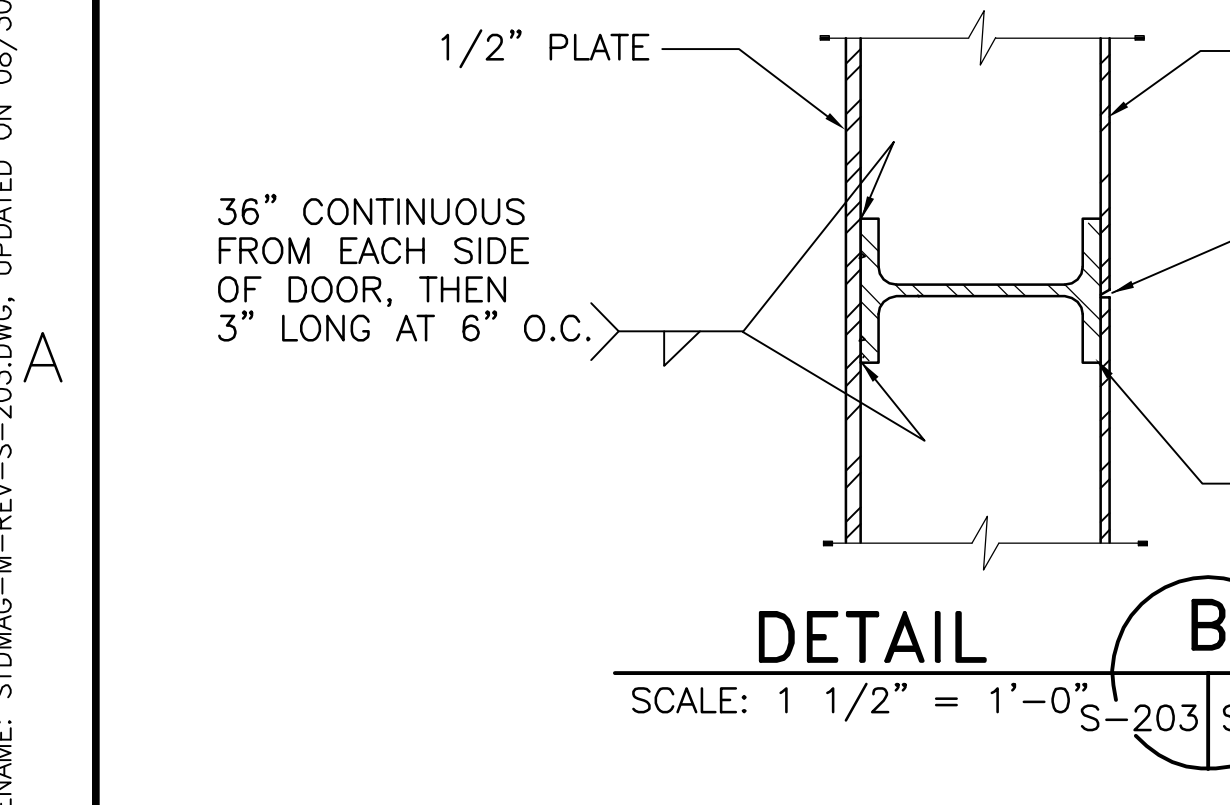
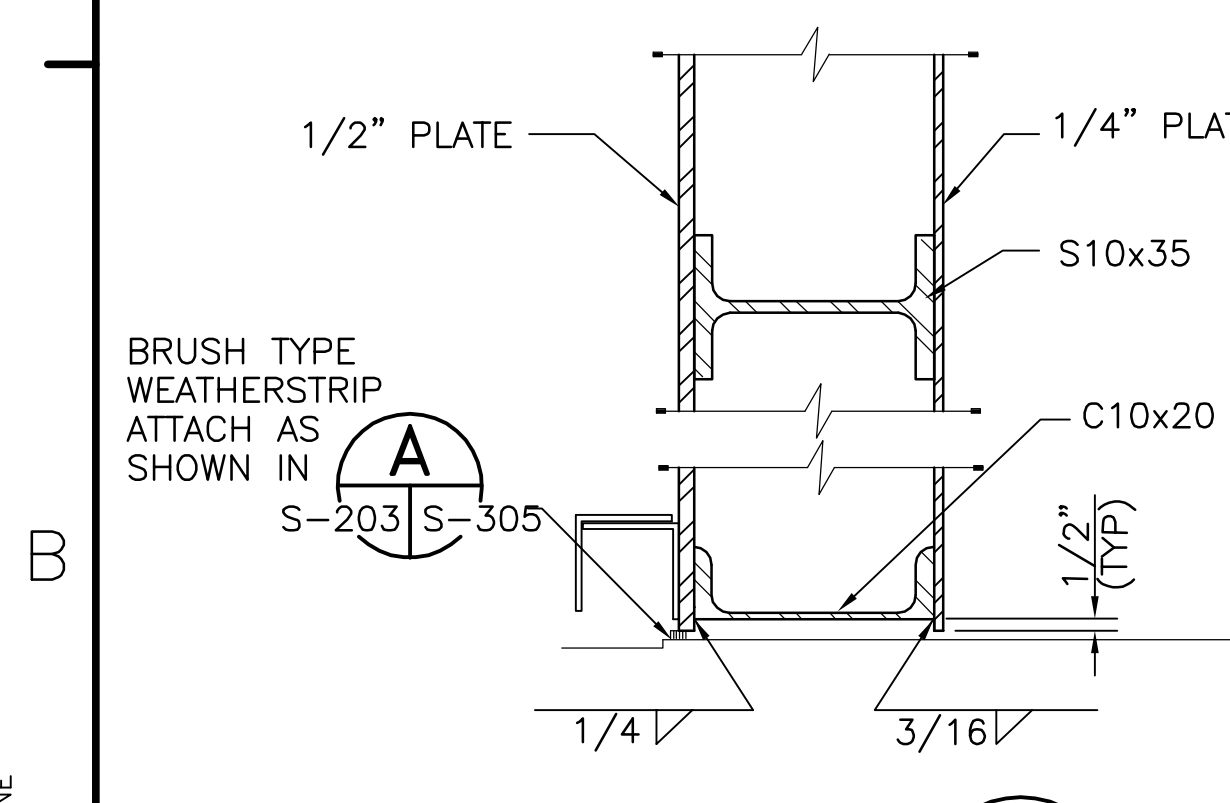
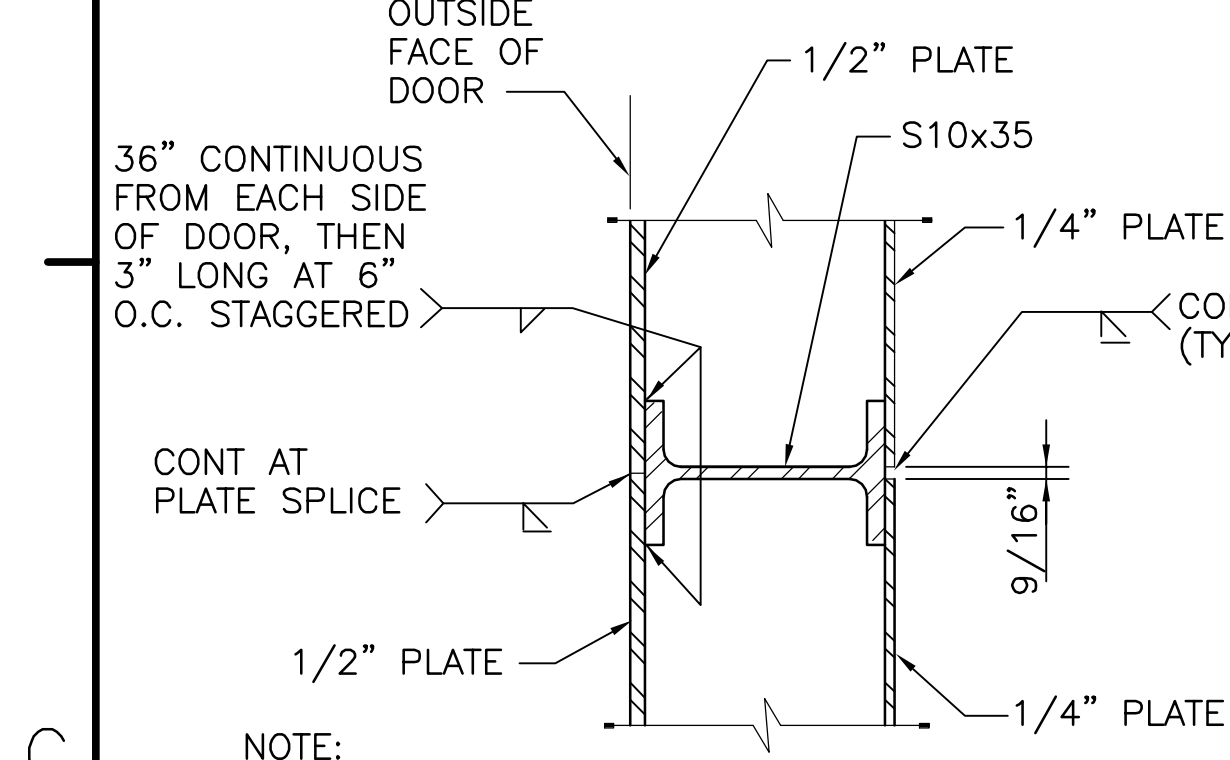
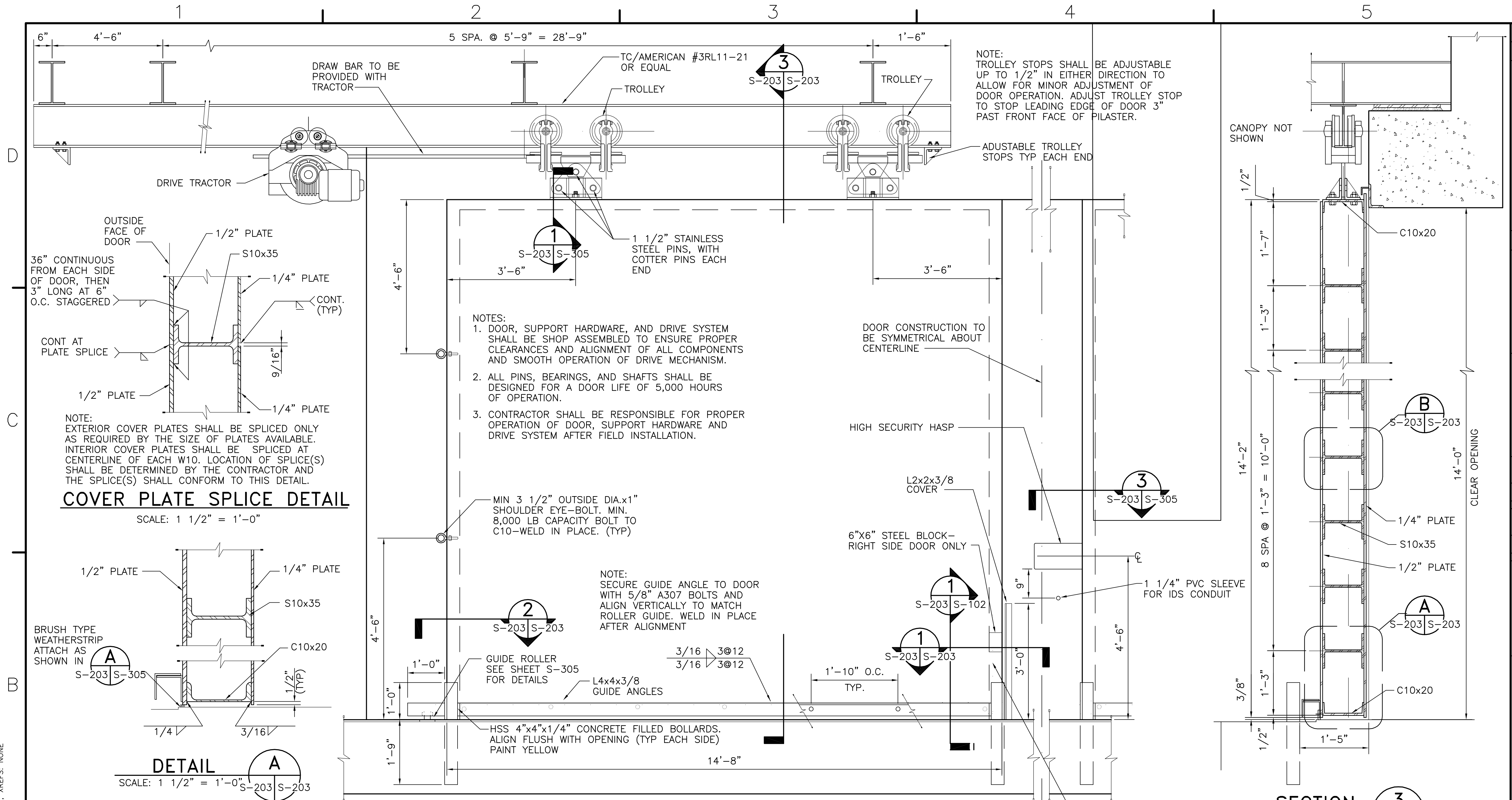
GRAPHIC SCALES



FILENAME: STD/MAG-M-REV-S-202.DWG, UPDATED ON 08/30/02 AT 14:08, XREFS: NONE

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SYMBOL	SYMBOL	SYMBOL
DESCRIPTION	DESCRIPTION	DESCRIPTION
SEAL		
APPROVED		
ACTIVITY - SATISFACTORY TO		
DATE	DATE	DATE
APPROVED		
FOR EFD FOR COMMANDER NAVFAC		
DATE	DATE	DATE
A/E	EFD	
DESIGN		
DRAWN		
REVIEW		
OC		
CHIEF ARCH./ENGR.		
PROJECT MANAGER		
FIRE PROTECTION		
BRANCH MANAGER		
DESIGN DIRECTOR		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND		
BOX MAGAZINE - TYPE M		
EXTERIOR FRONT ELEVATION AND SECTIONS		
CODE ID. NO. 80091	SIZE D	
SCALE: AS NOTED		
EFD NO.		
STA. PROJ. NO.		
SPEC. NO.		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO. 10400007		
SHEET 7 OF 27		
S-202		
DRAWING REVISION MAY 2000		

FILENAME: STD/MAC-M-REV-S-203.DWG, UPDATED ON 08/30/02 AT 14:08, XREFS: NONE



NOTES:
 1. DOOR, SUPPORT HARDWARE, AND DRIVE SYSTEM SHALL BE SHOP ASSEMBLED TO ENSURE PROPER CLEARANCES AND ALIGNMENT OF ALL COMPONENTS AND SMOOTH OPERATION OF DRIVE MECHANISM.
 2. ALL PINS, BEARINGS, AND SHAFTS SHALL BE DESIGNED FOR A DOOR LIFE OF 5,000 HOURS OF OPERATION.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER OPERATION OF DOOR, SUPPORT HARDWARE AND DRIVE SYSTEM AFTER FIELD INSTALLATION.

MIN 3 1/2" OUTSIDE DIA.x1" SHOULDER EYE-BOLT. MIN. 8,000 LB CAPACITY BOLT TO C10-WELD IN PLACE. (TYP)

NOTE: SECURE GUIDE ANGLE TO DOOR WITH 5/8" A307 BOLTS AND ALIGN VERTICALLY TO MATCH ROLLER GUIDE. WELD IN PLACE AFTER ALIGNMENT

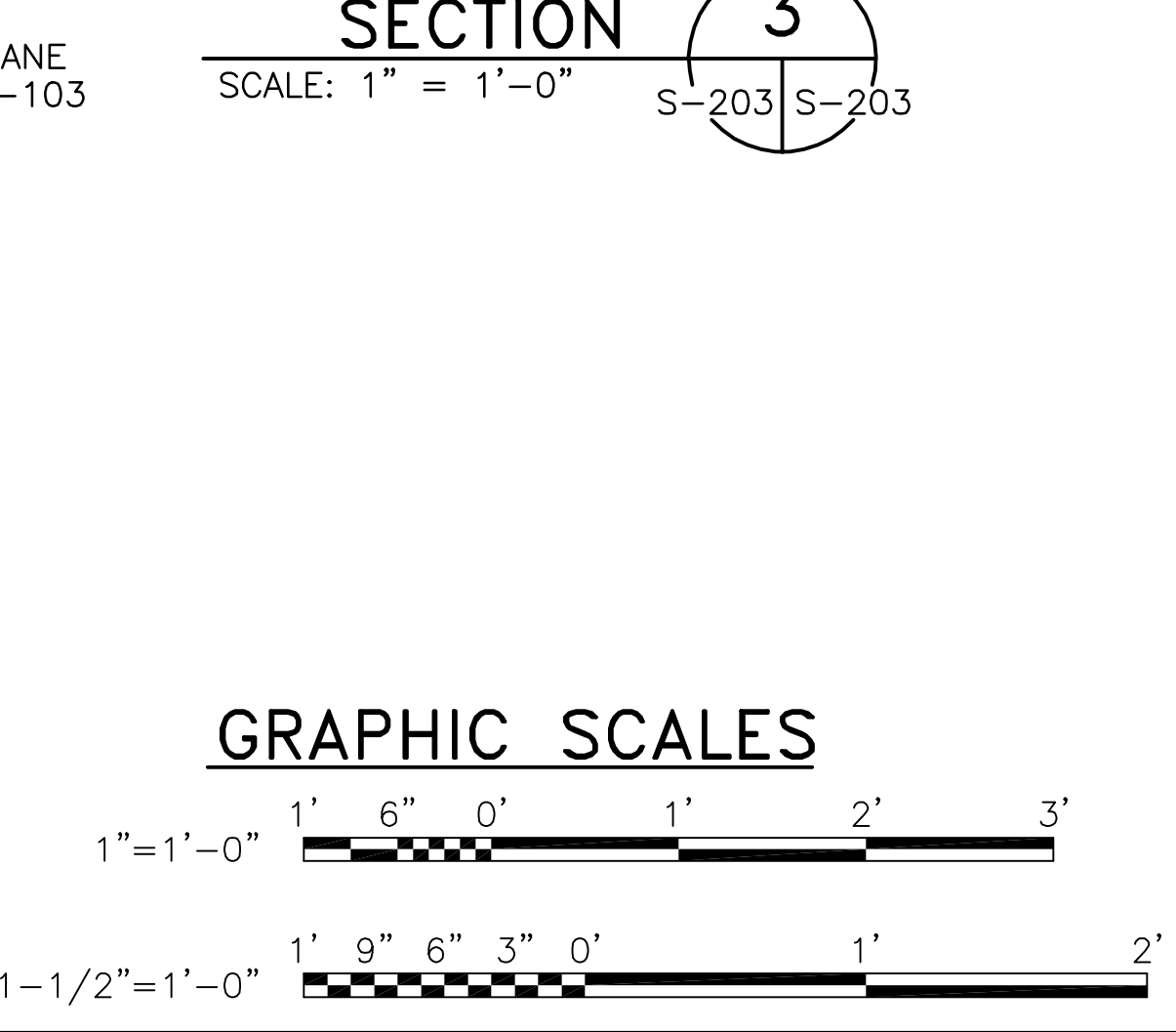
NOTE: TROLLEY STOPS SHALL BE ADJUSTABLE UP TO 1/2" IN EITHER DIRECTION TO ALLOW FOR MINOR ADJUSTMENT OF DOOR OPERATION. ADJUST TROLLEY STOP TO STOP LEADING EDGE OF DOOR 3" PAST FRONT FACE OF PILASTER.

NO.	DATE	BY	DESCRIPTION

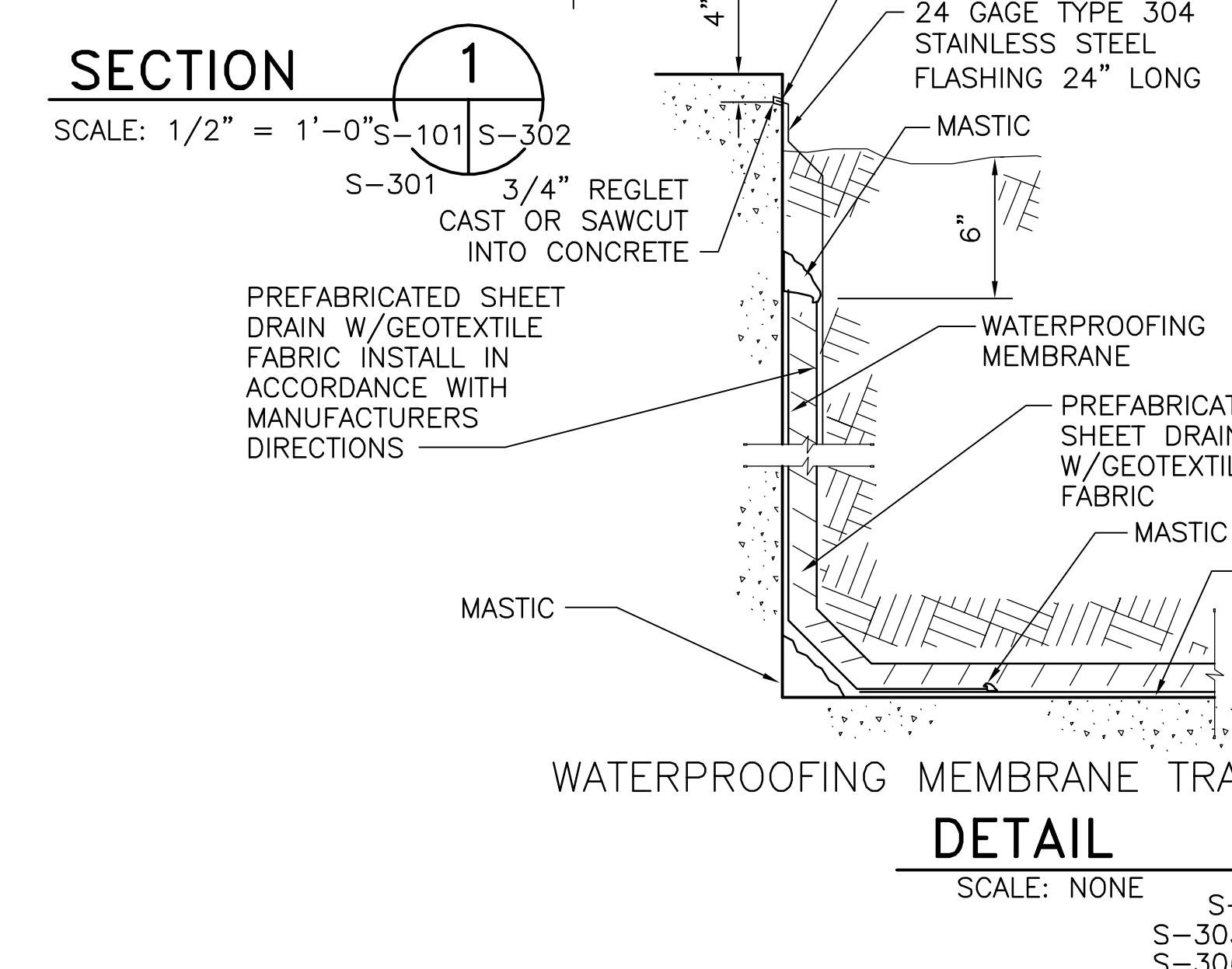
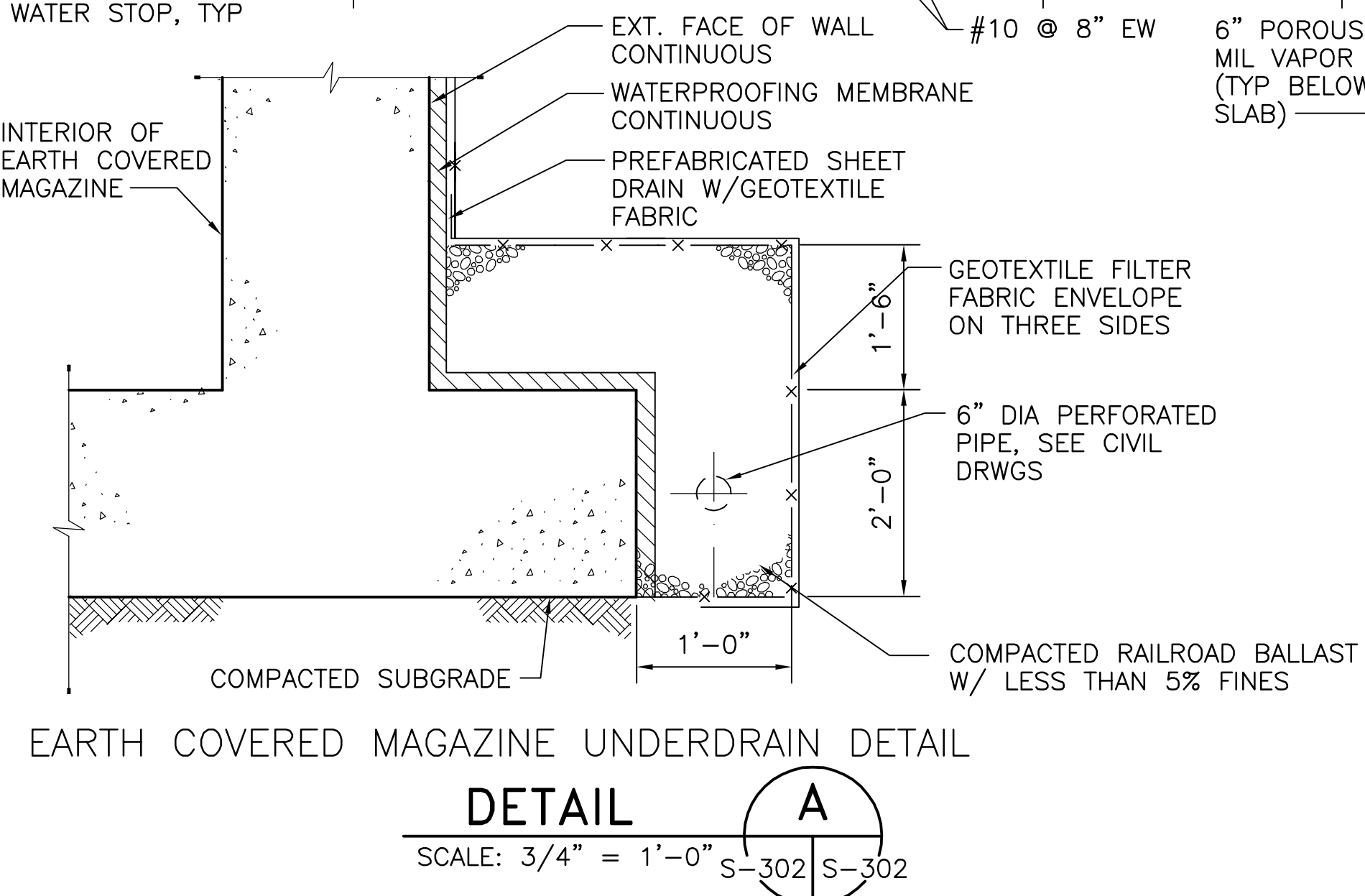
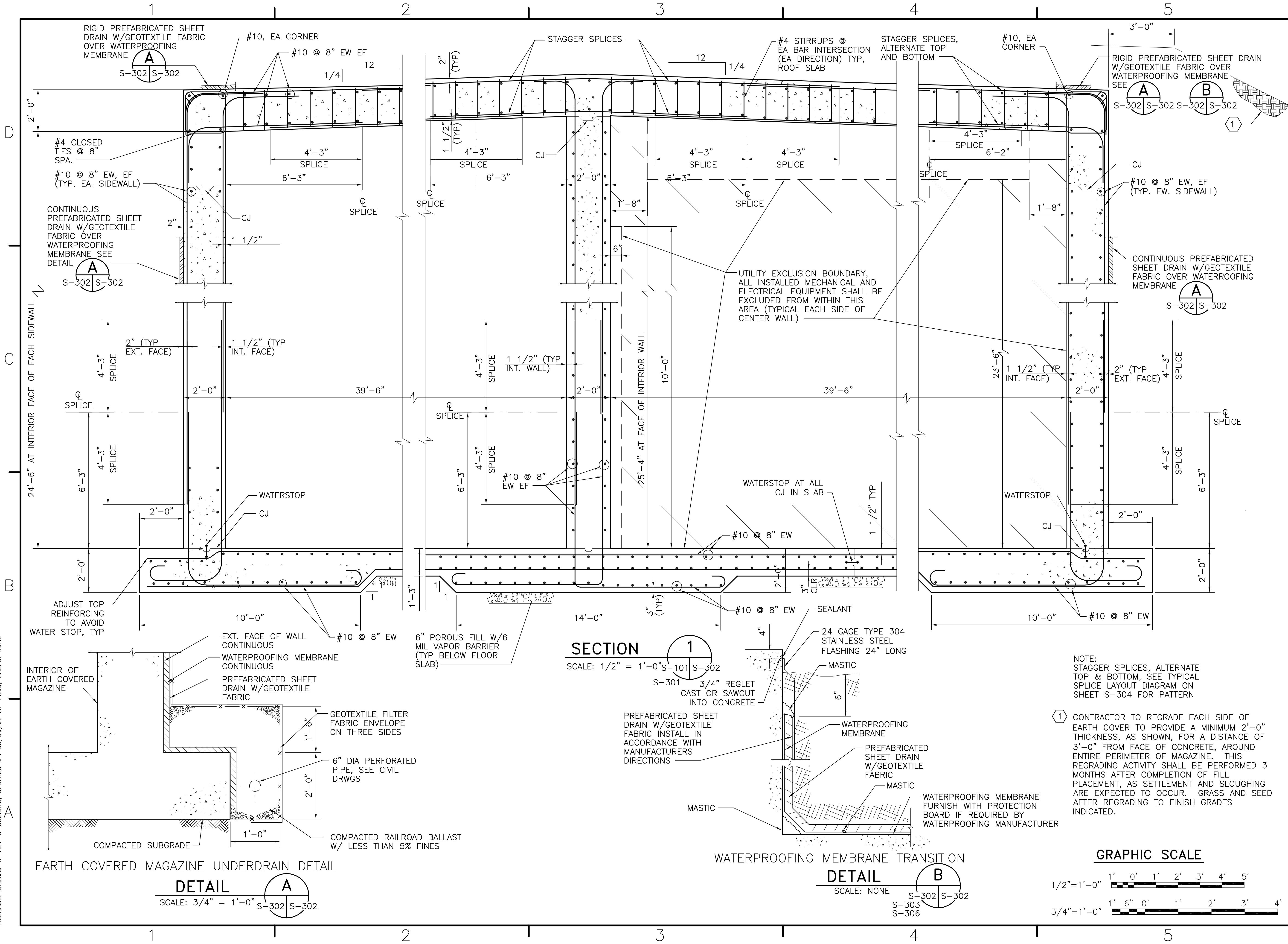
NAVAL FACILITIES ENGINEERING COMMAND	
APPROVED	SEAL
ACTIVITY - SATISFACTORY TO	
DATE	APPROVED
FOR EFD FOR COMMANDER NAVFAC	
DATE	EFD
A/E	DESIGN
	DRAWN
	REVIEW
	QC
	CHIEF ARCH./ ENGR.
PROJECT MANAGER	
FIRE PROTECTION	
BRANCH MANAGER	
DESIGN DIRECTOR	

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
BOX MAGAZINE - TYPE M
 DOOR ELEVATIONS, SECTIONS AND DETAILS

CODE ID. NO. 80091	SIZE D
SCALE: AS NOTED	
EFD NO.	
STA. PROJ. NO.	
SPEC. NO.	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO. 10400008	
SHEET 8 OF 27	
S-203	
DRAWING REVISION MAY 2000	

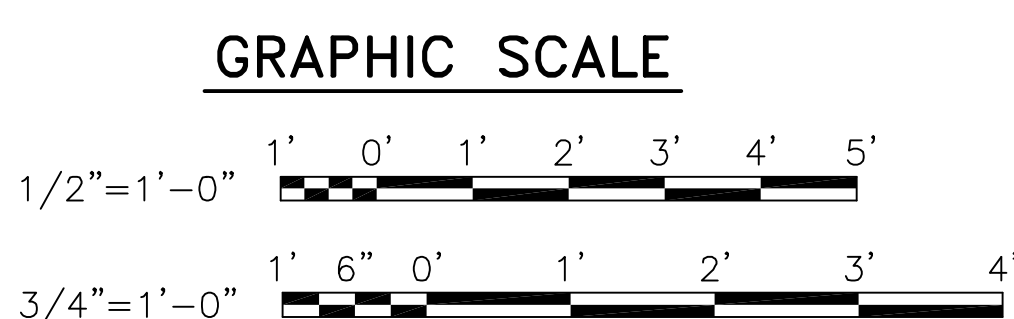


FILENAME: STD\MAC-M-REV-S-302.DWG, UPDATED ON 08/30/02 AT 14:09, XREFS: NONE



NOTE:
 STAGGER SPLICES, ALTERNATE TOP & BOTTOM, SEE TYPICAL SPLICE LAYOUT DIAGRAM ON SHEET S-304 FOR PATTERN

① CONTRACTOR TO REGRADE EACH SIDE OF EARTH COVER TO PROVIDE A MINIMUM 2'-0" THICKNESS, AS SHOWN, FOR A DISTANCE OF 3'-0" FROM FACE OF CONCRETE, AROUND ENTIRE PERIMETER OF MAGAZINE. THIS REGRADING ACTIVITY SHALL BE PERFORMED 3 MONTHS AFTER COMPLETION OF FILL PLACEMENT, AS SETTLEMENT AND SLOUGHING ARE EXPECTED TO OCCUR. GRASS AND SEED AFTER REGRADING TO FINISH GRADES INDICATED.



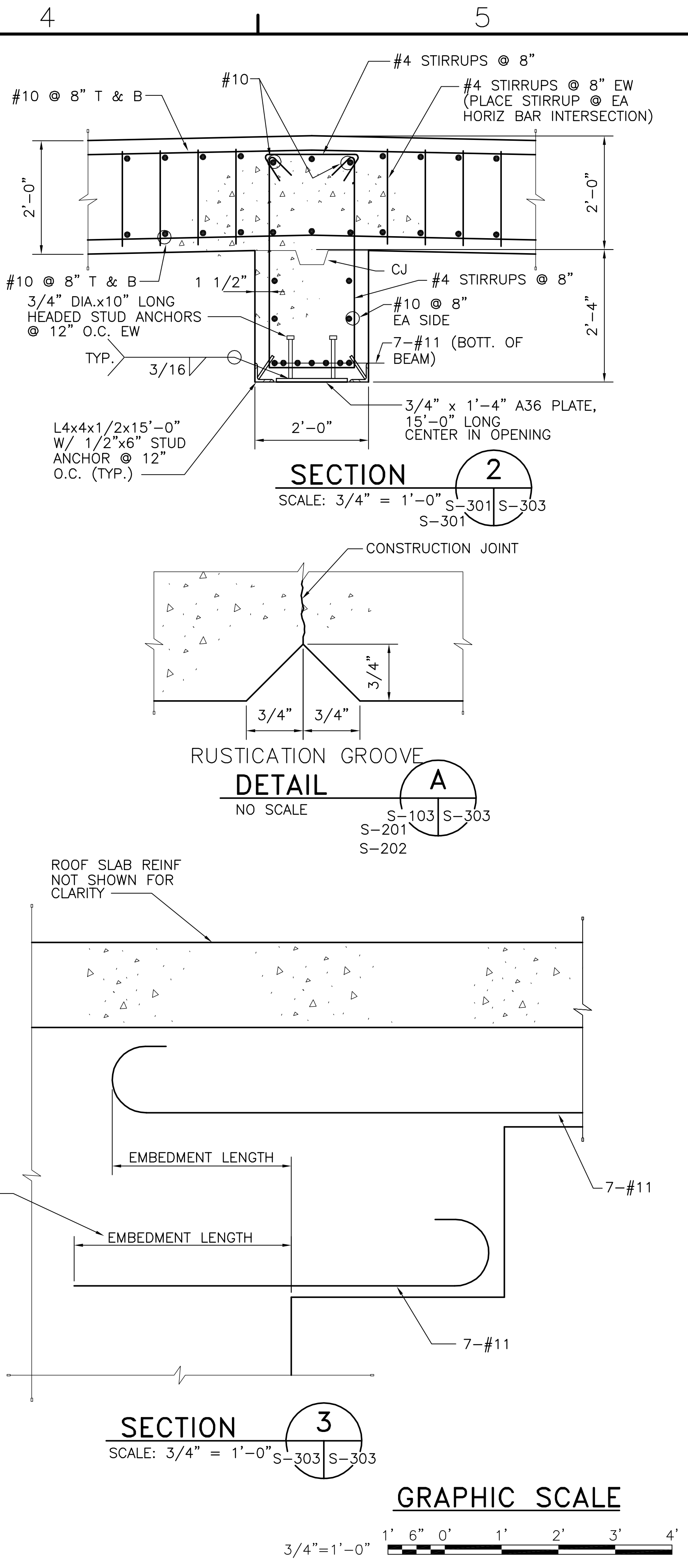
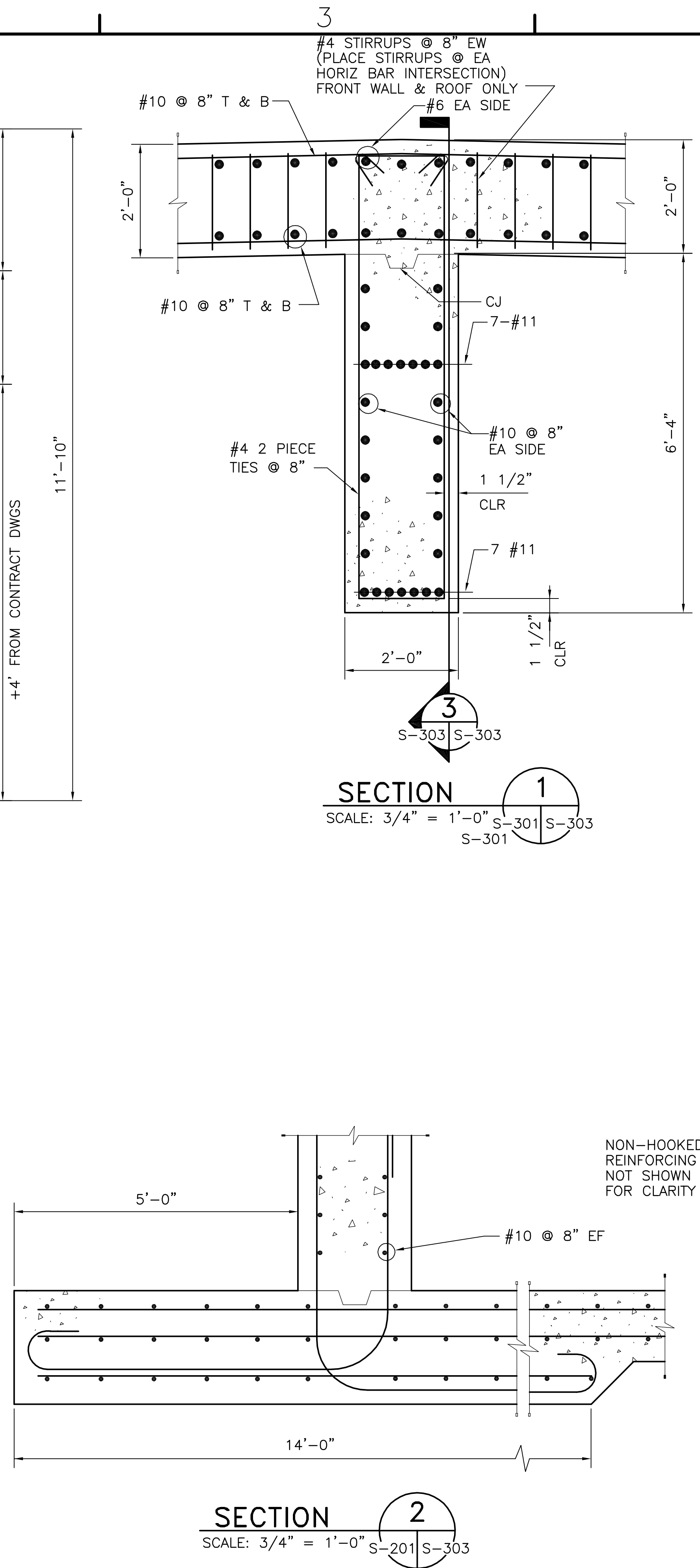
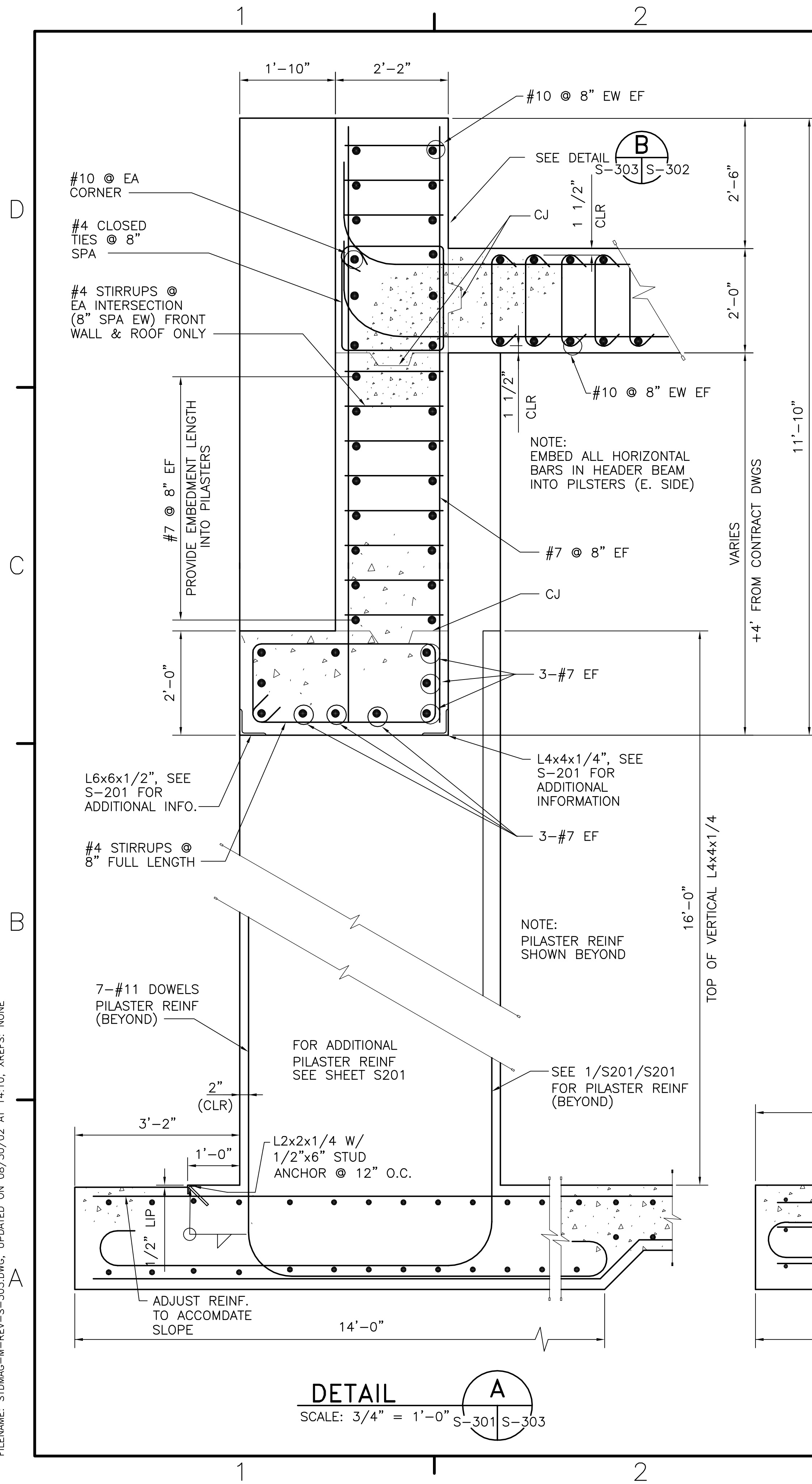
NO.	DATE	DESCRIPTION

APPROVED	SEAL
ACTIVITY - SATISFACTORY TO	
DATE APPROVED	
FOR EFD FOR COMMANDER NAVFAC	
DATE	
A/E	EFD
DESIGN	
DRAWN	
REVIEW	
OC	
CHIEF ARCH./ ENGR.	
PROJECT MANAGER	
FIRE PROTECTION	
BRANCH MANAGER	
DESIGN DIRECTOR	

DEPARTMENT OF THE NAVY	BOX MAGAZINE - TYPE M	SECTIONS AND DETAILS
NAVAL FACILITIES ENGINEERING COMMAND		

CODE ID. NO. 80091	SIZE D
SCALE: AS NOTED	
EFD NO.	
STA. PROJ. NO.	
SPEC. NO.	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	10400010
SHEET	10 OF 27
S-302	
<small>DRAWING REVISION MAY 2000</small>	

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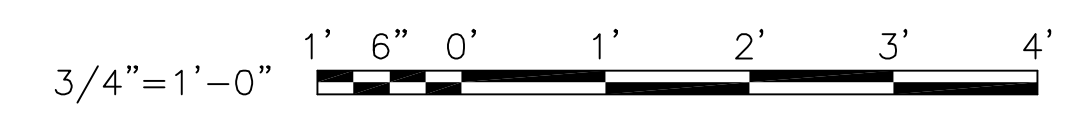


DETAIL
A
SCALE: 3/4" = 1'-0" S-301 | S-303

SECTION
2
SCALE: 3/4" = 1'-0" S-201 | S-303

SECTION
3
SCALE: 3/4" = 1'-0" S-303 | S-303

GRAPHIC SCALE

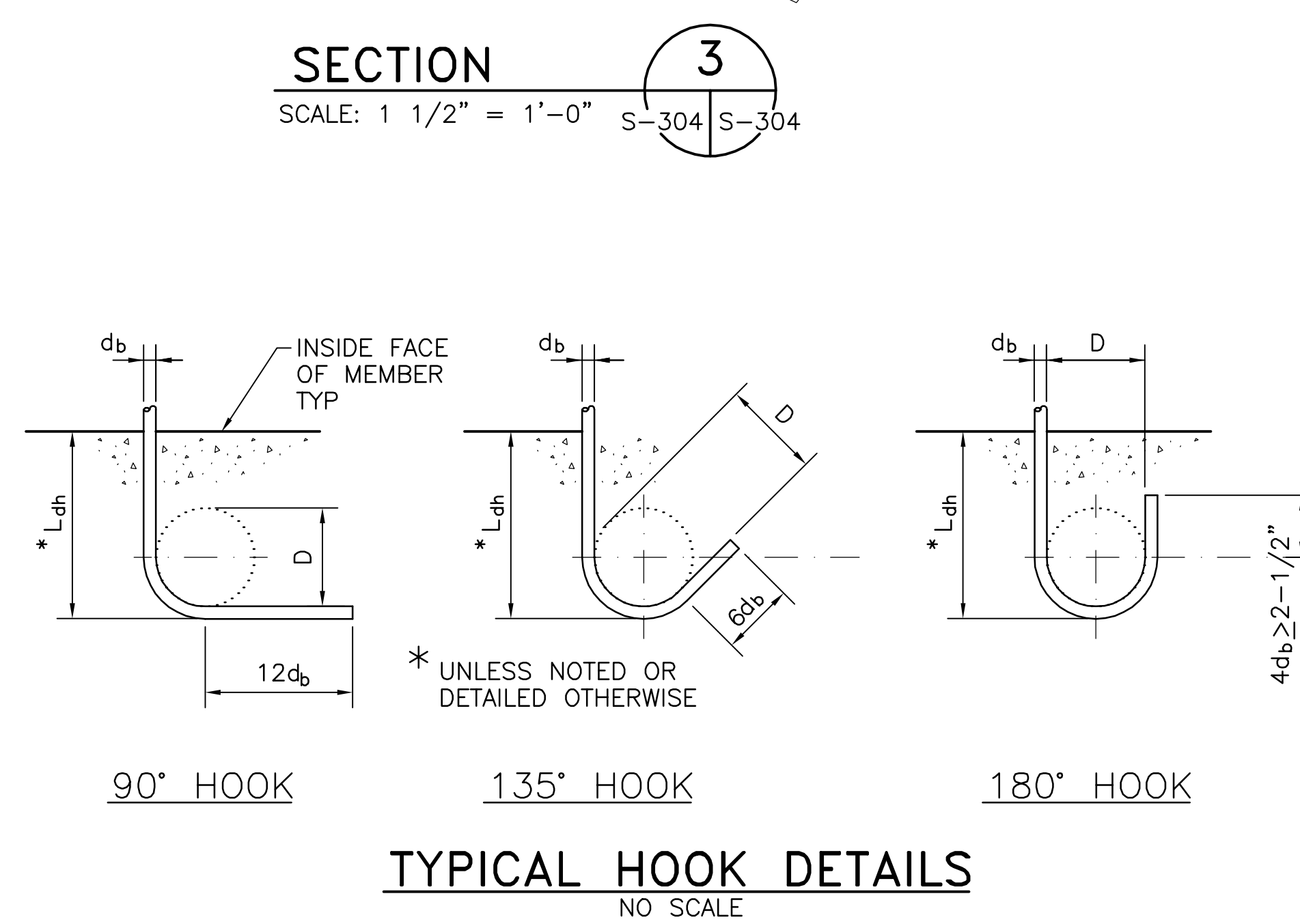
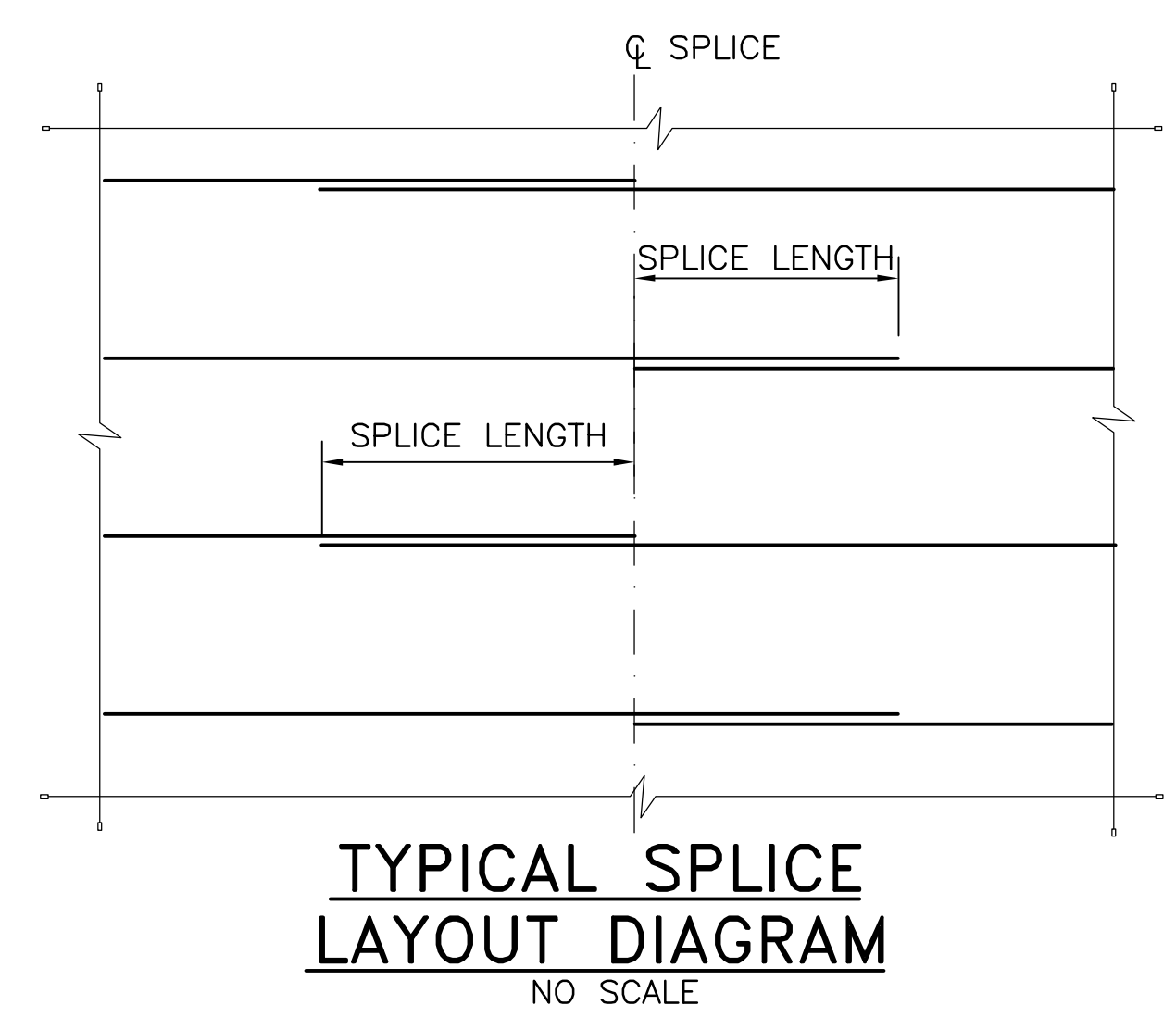
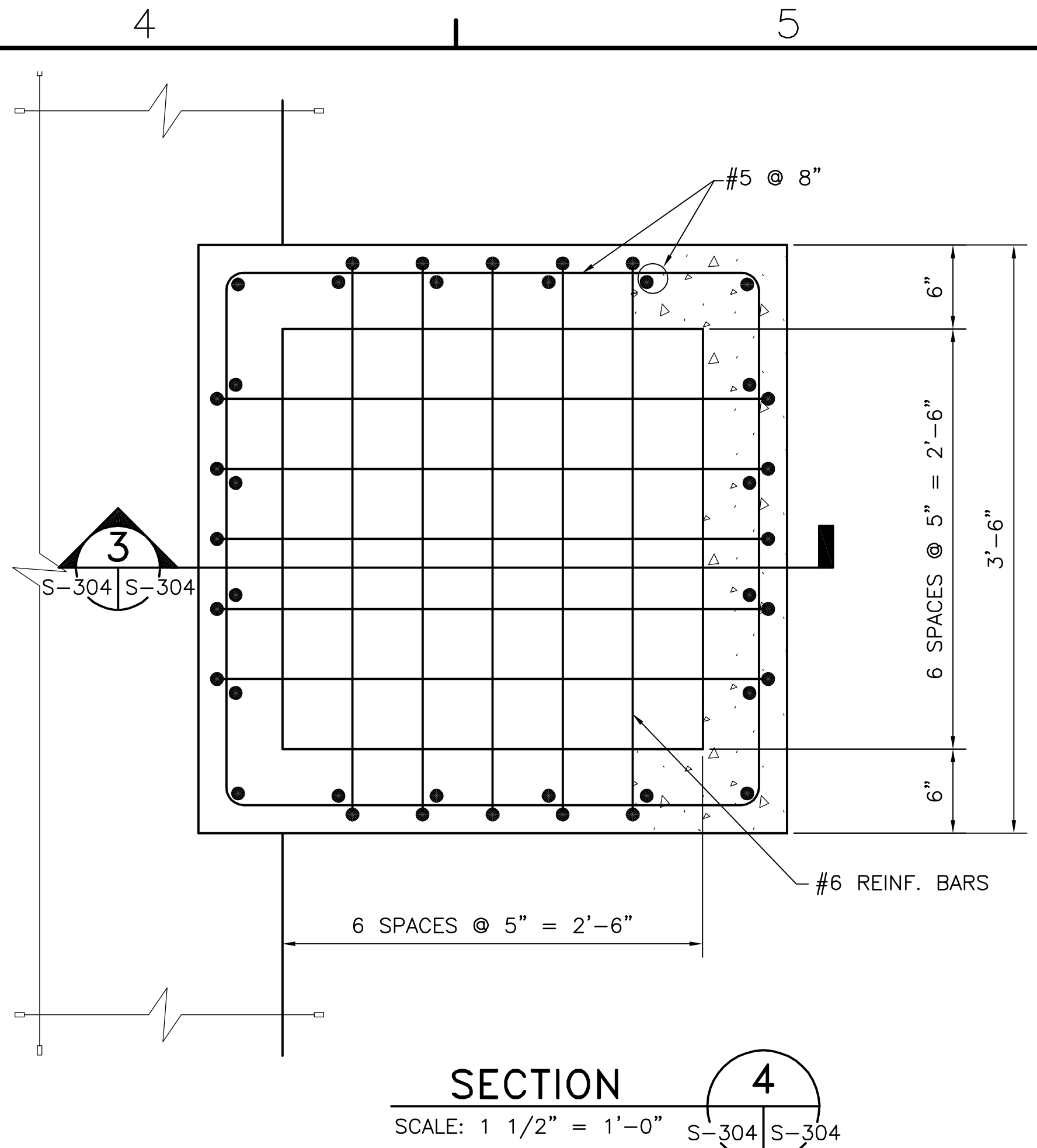
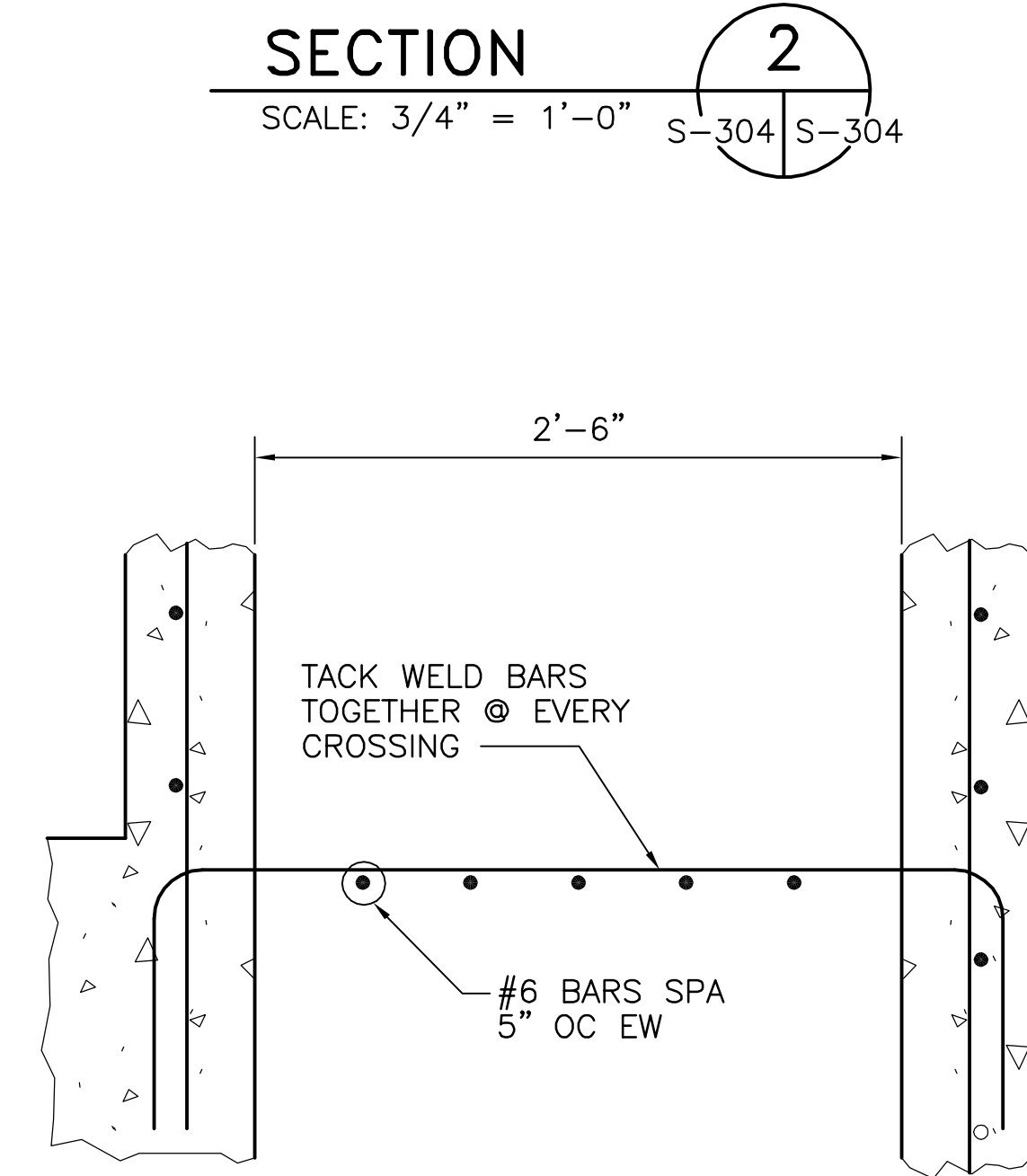
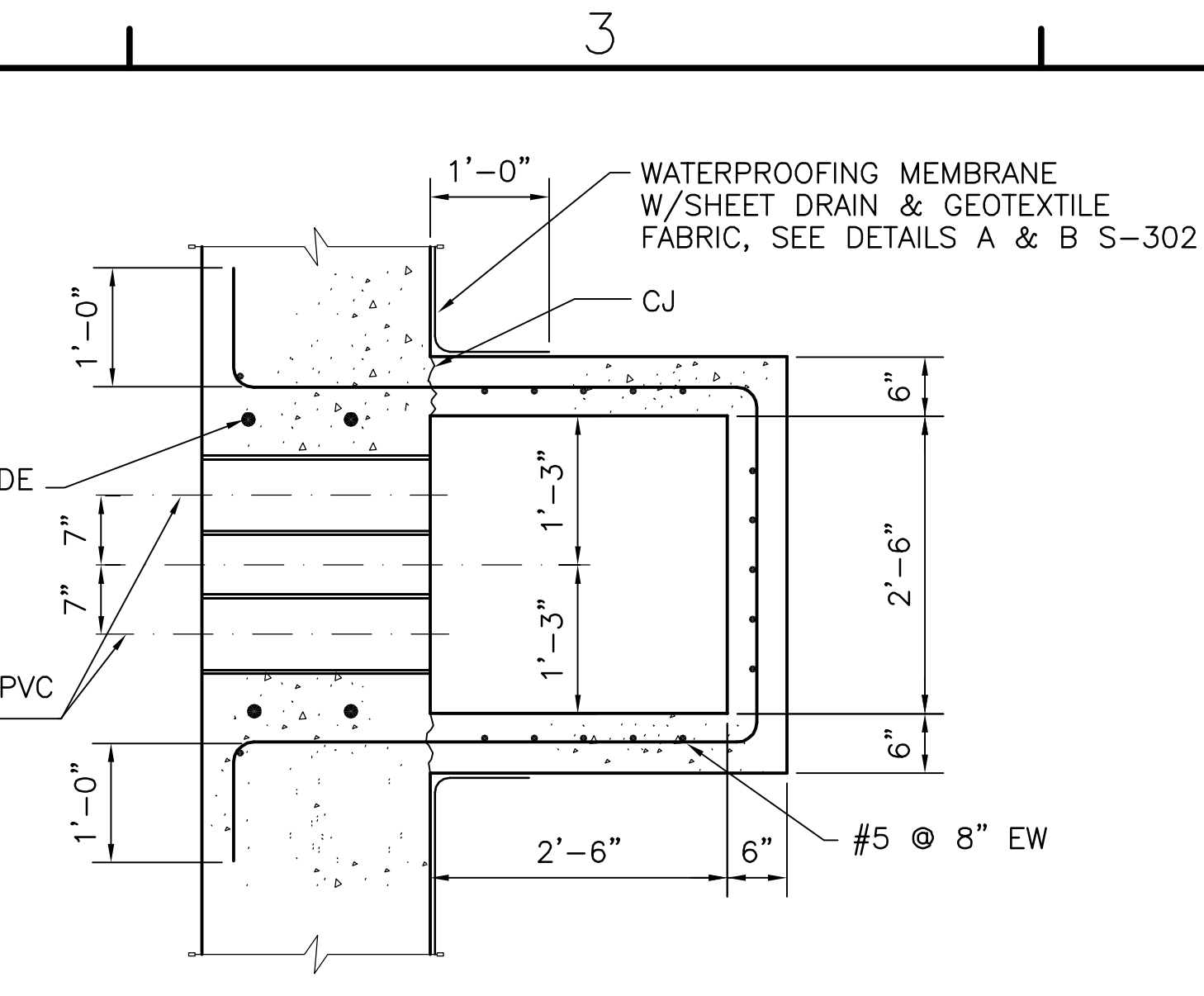
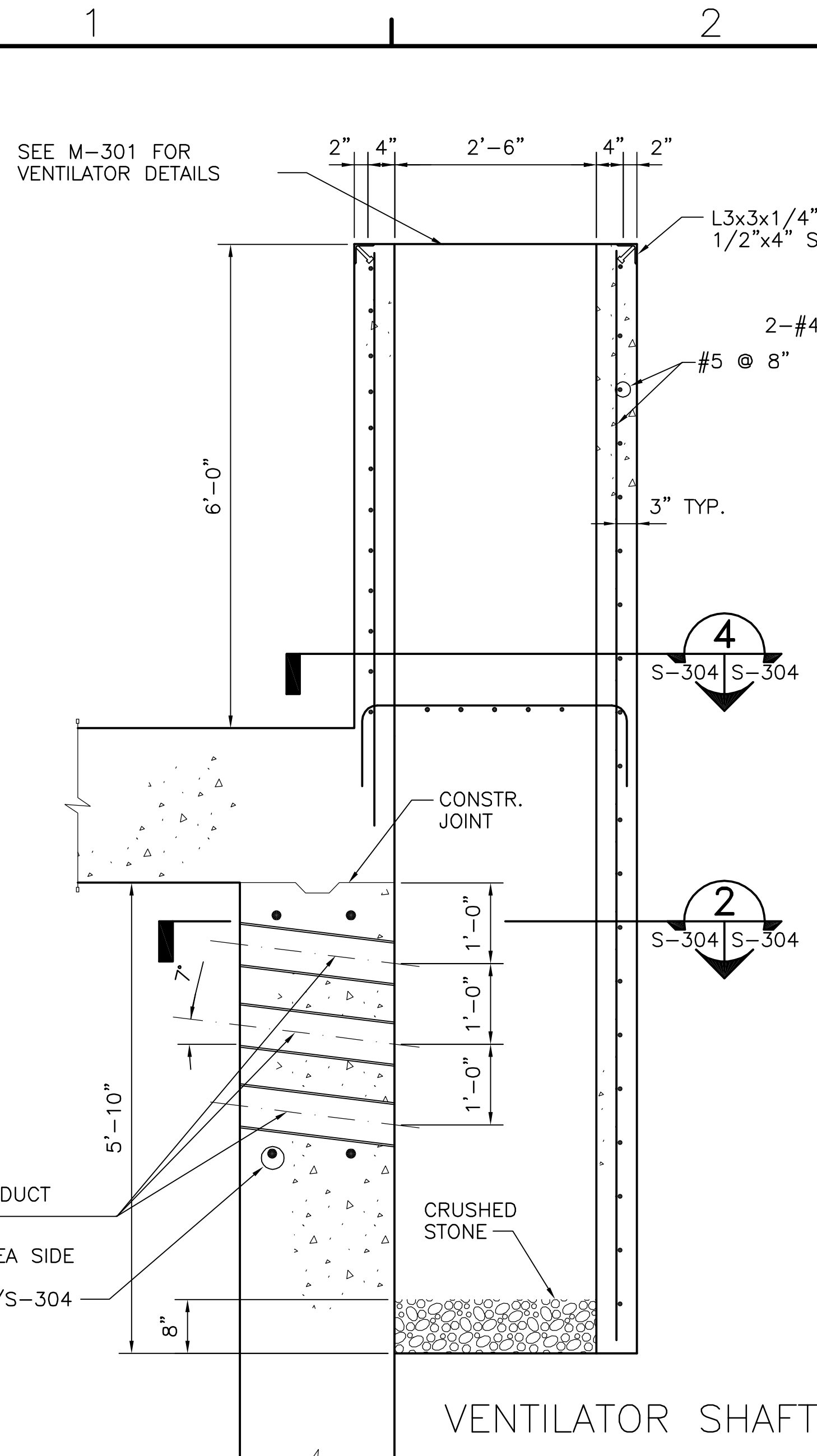


DATE		DESCRIPTION
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APPROVED	
ACTIVITY - SATISFACTORY TO	
DATE	
APPROVED	
FOR EFD FOR COMMANDER NAVFAC	
DATE	
A/E	EFD
DESIGN	
DRAWN	
REVIEW	
QC	
CHIEF ARCH/ ENGR.	
PROJECT MANAGER	
FIRE PROTECTION	
BRANCH MANAGER	
DESIGN DIRECTOR	

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
BOX MAGAZINE - TYPE M	
ELEVATION AND SECTIONS	

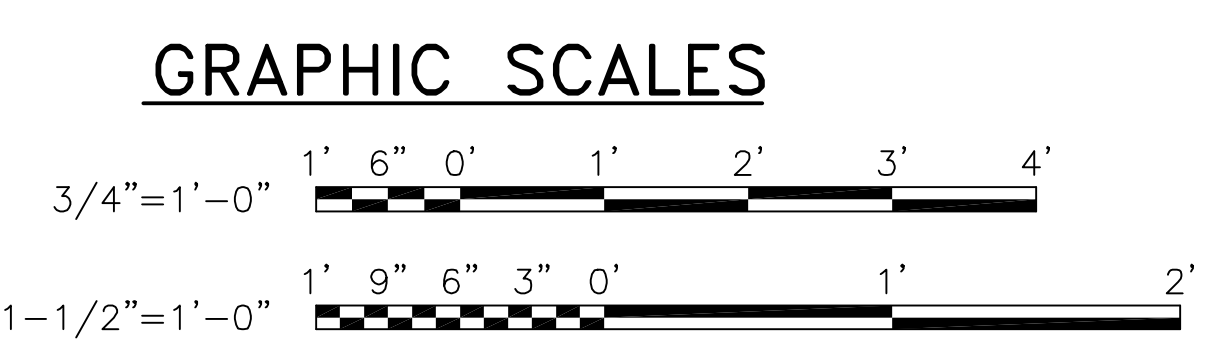
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SCALE: AS NOTED	
EFD NO.	
STA. PROJ. NO.	
SPEC. NO.	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO. 10400011	
SHEET 11 OF 27	
S-303	
DRAWFORM REVISION MAY 2000	



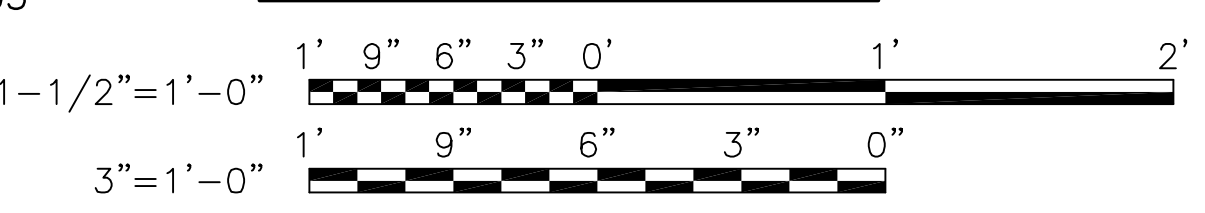
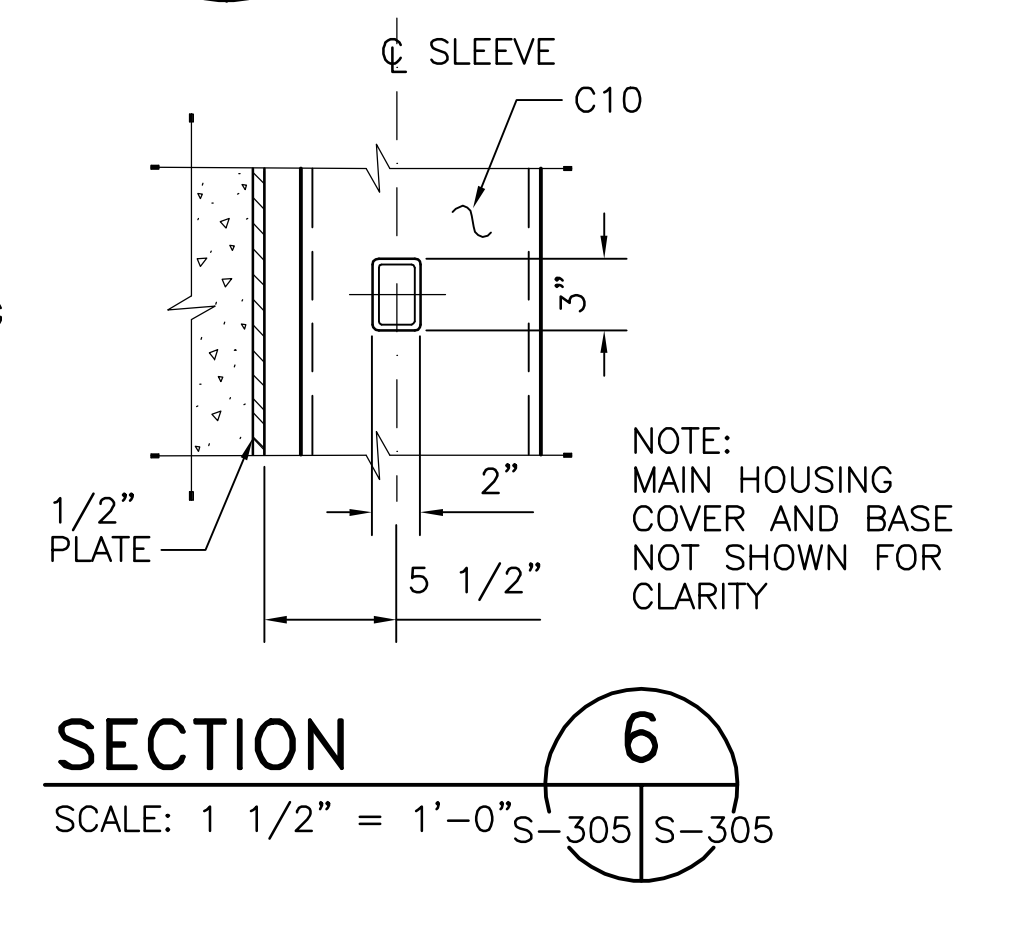
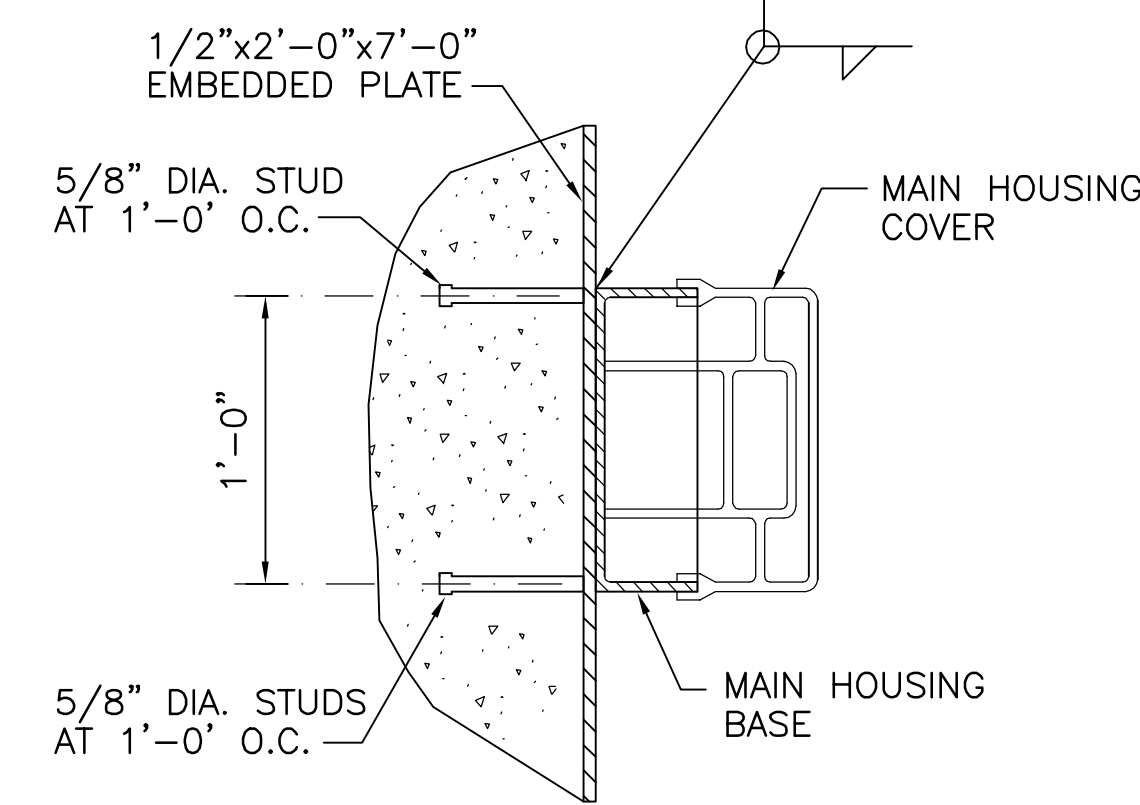
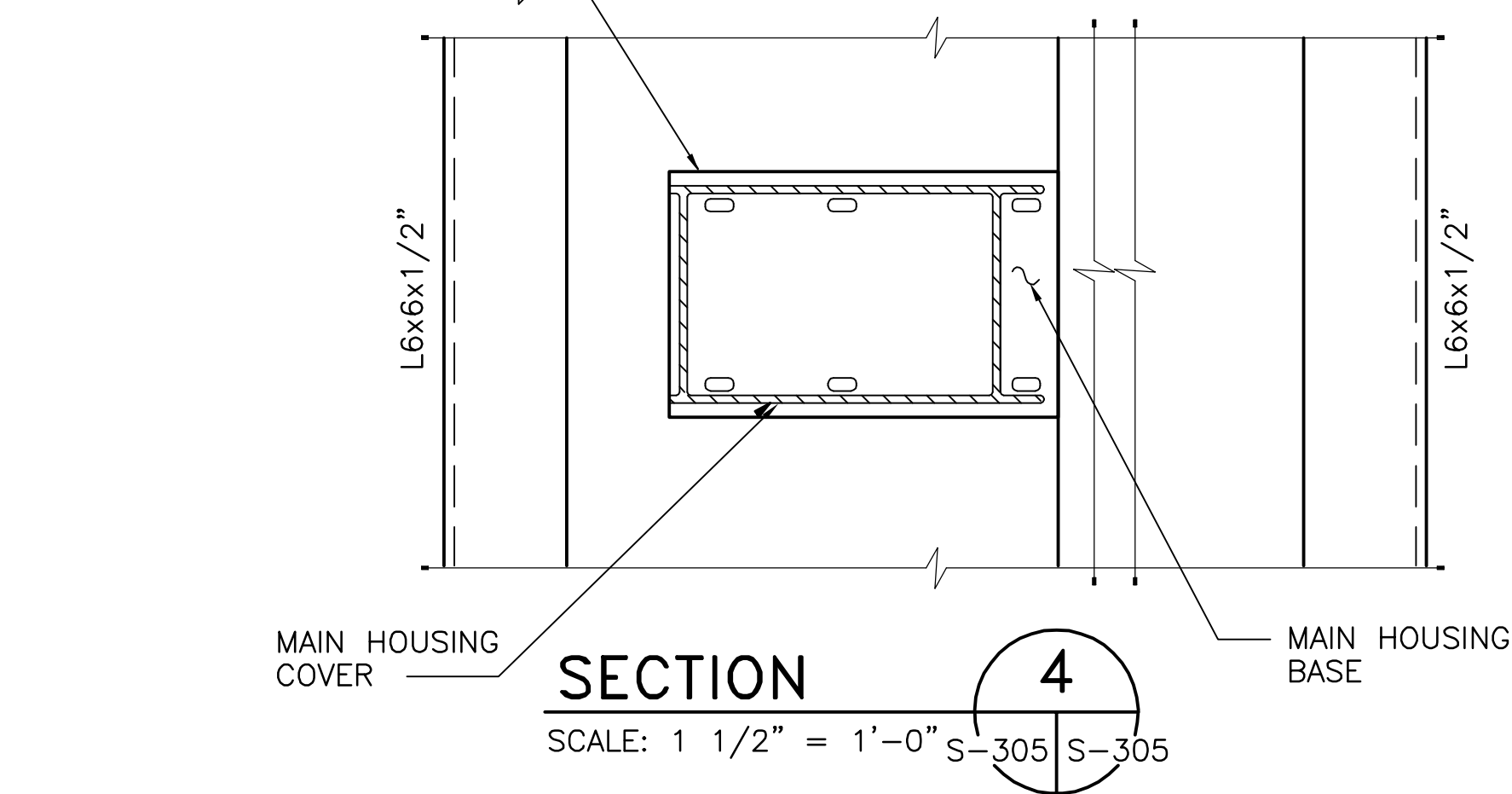
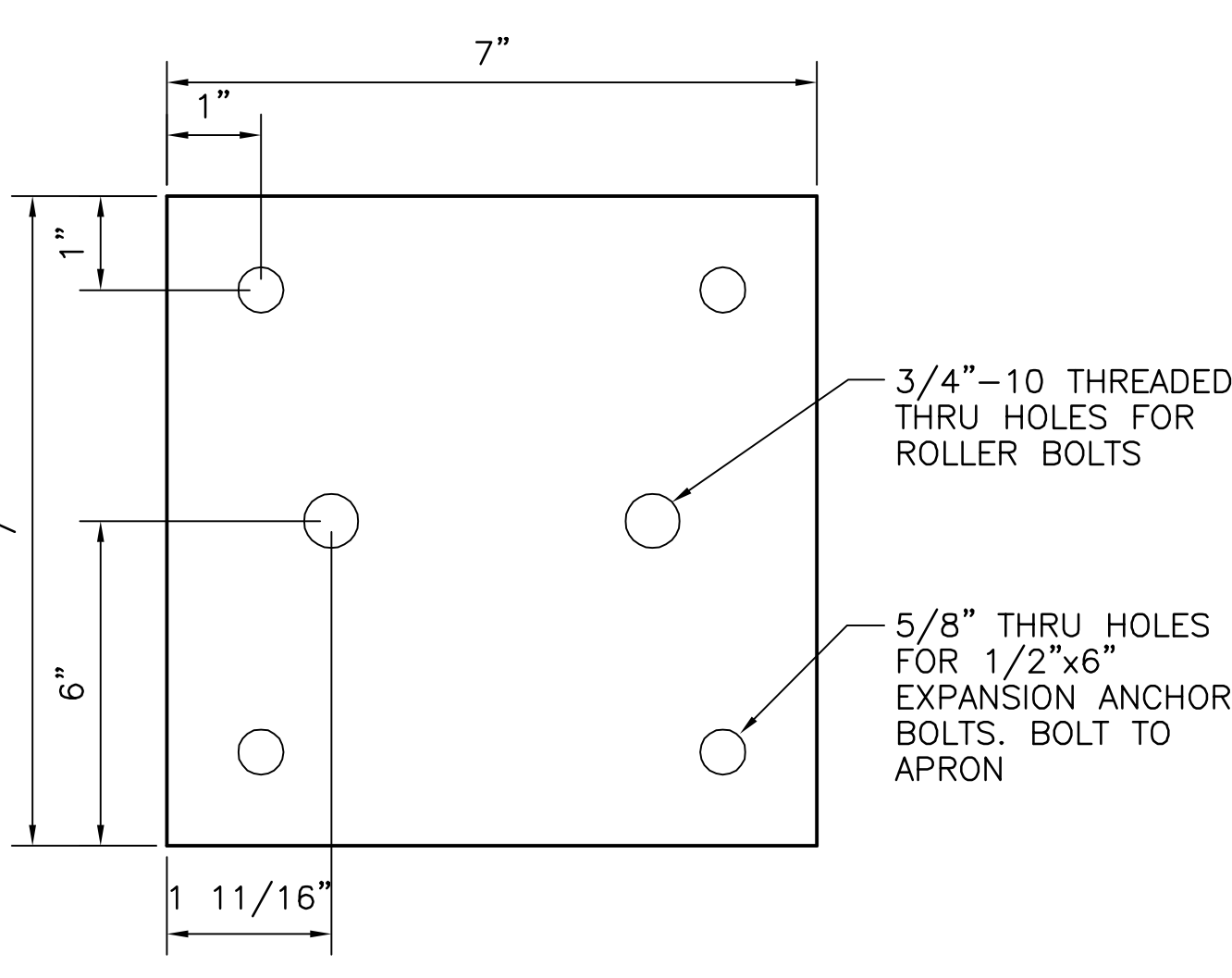
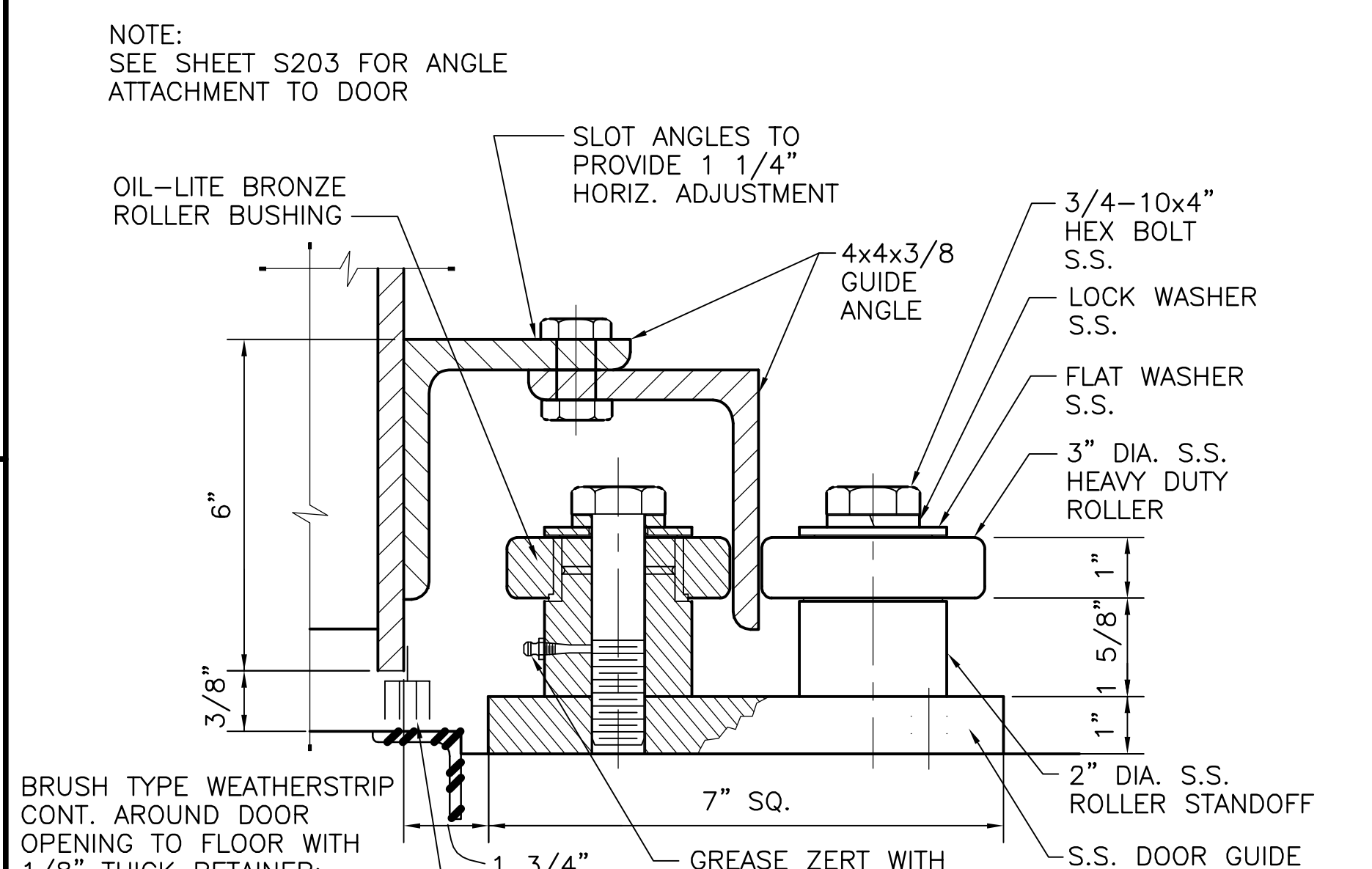
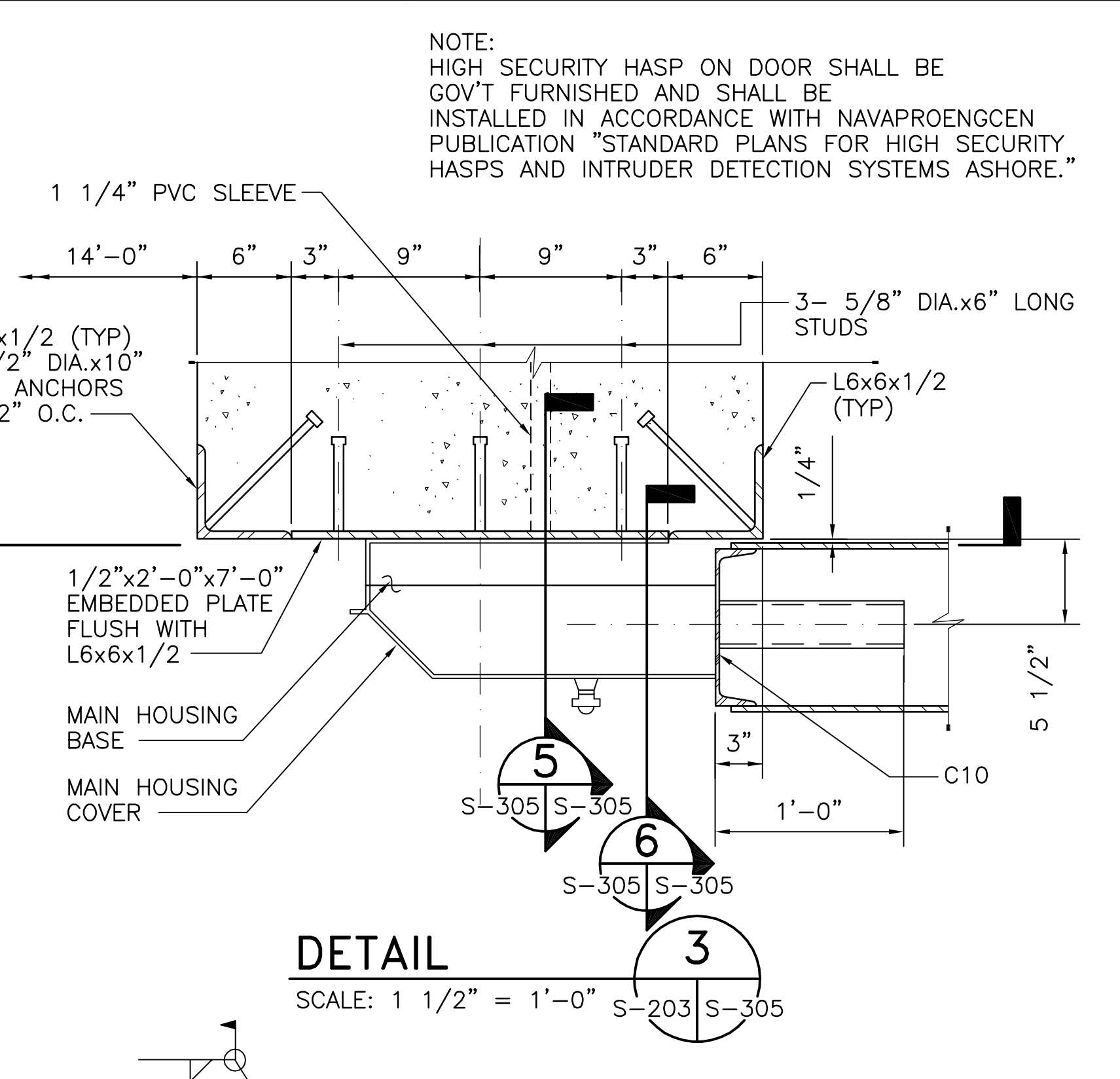
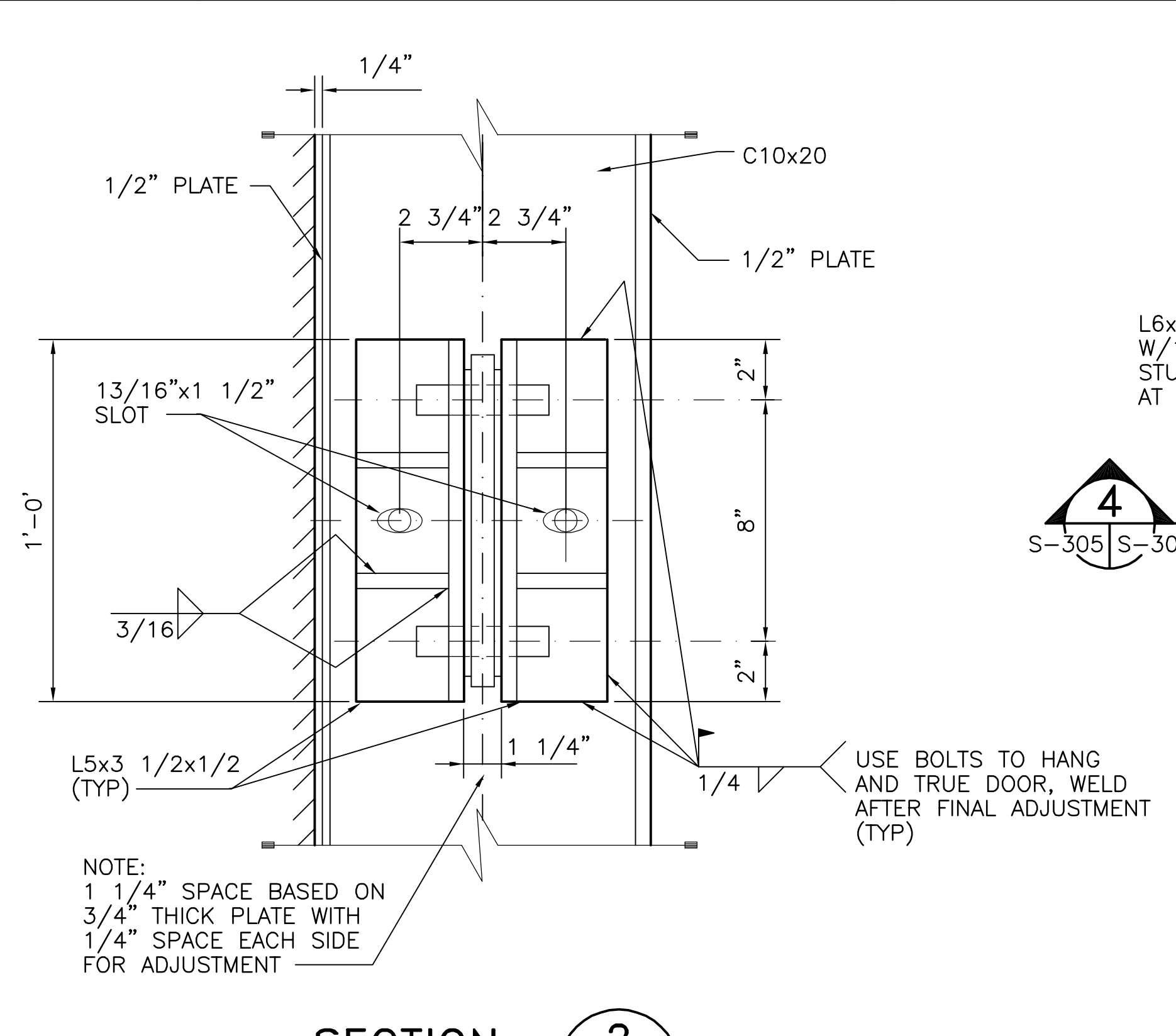
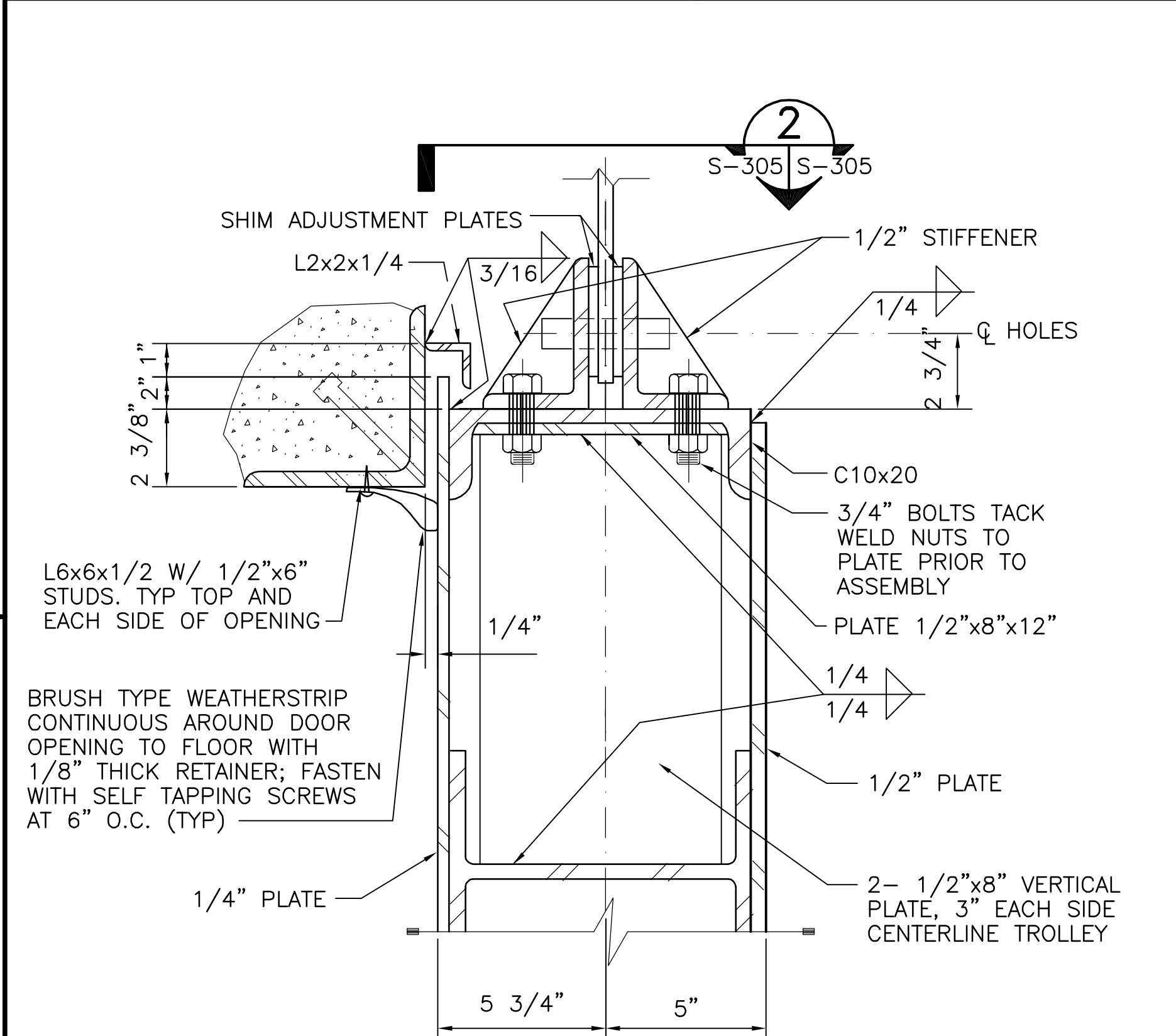
REBAR SPLICE TABLE

BAR SIZE	SPLICE LENGTHS	DEVELOPMENT LENGTHS	HOOK LENGTHS	HOOK DIMENSIONS
#4	24"	34"	10"	2"
#5	25"	35"	13"	2 1/2"
#6	30"	42"	15"	4 1/2"
#7	35"	49"	18"	5 1/4"
#8	40"	56"	20"	6"
#9	45"	63"	23"	9 1/2"
#10	51"	73"	26"	10 3/4"
#11	56"	88"	29"	12"

- NOTES:**
- LAP SPLICES OF ADJACENT PARALLEL REINFORCING BARS MUST BE STAGGERED BY AT LEAST THE LENGTH OF THE LAP. LAP SPLICE LOCATIONS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED PRIOR TO FABRICATION.
 - STIRRUPS SHALL HAVE 135° HOOKS EACH END.



DATE	APPROVED	DESCRIPTION	SYMBOL	DATE
NAVFACILITIES ENGINEERING COMMAND				
FOR EFD FOR COMMANDER NAVFAC				
DATE	A/E	EFD		
	DESIGN			
	DRAWN			
	REVIEW			
	QC			
	CHEF ARCH/ ENGR.			
	PROJECT MANAGER			
	FIRE PROTECTION			
	BRANCH MANAGER			
	DESIGN DIRECTOR			
DEPARTMENT OF THE NAVY				
NAVAL FACILITIES ENGINEERING COMMAND				
BOX MAGAZINE - TYPE M				
ELEVATION, SECTIONS AND DETAILS				
CODE ID. NO.	80091	SIZE	D	
SCALE:	AS NOTED			
EFD NO.				
STA. PROJ. NO.				
SPEC. NO.				
CONSTR. CONTR. NO.				
NAVFAC DRAWING NO. 10400012				
SHEET 12 OF 27				
S-304				
DRAWING REVISION MAY 2000				



DATE	DESCRIPTION

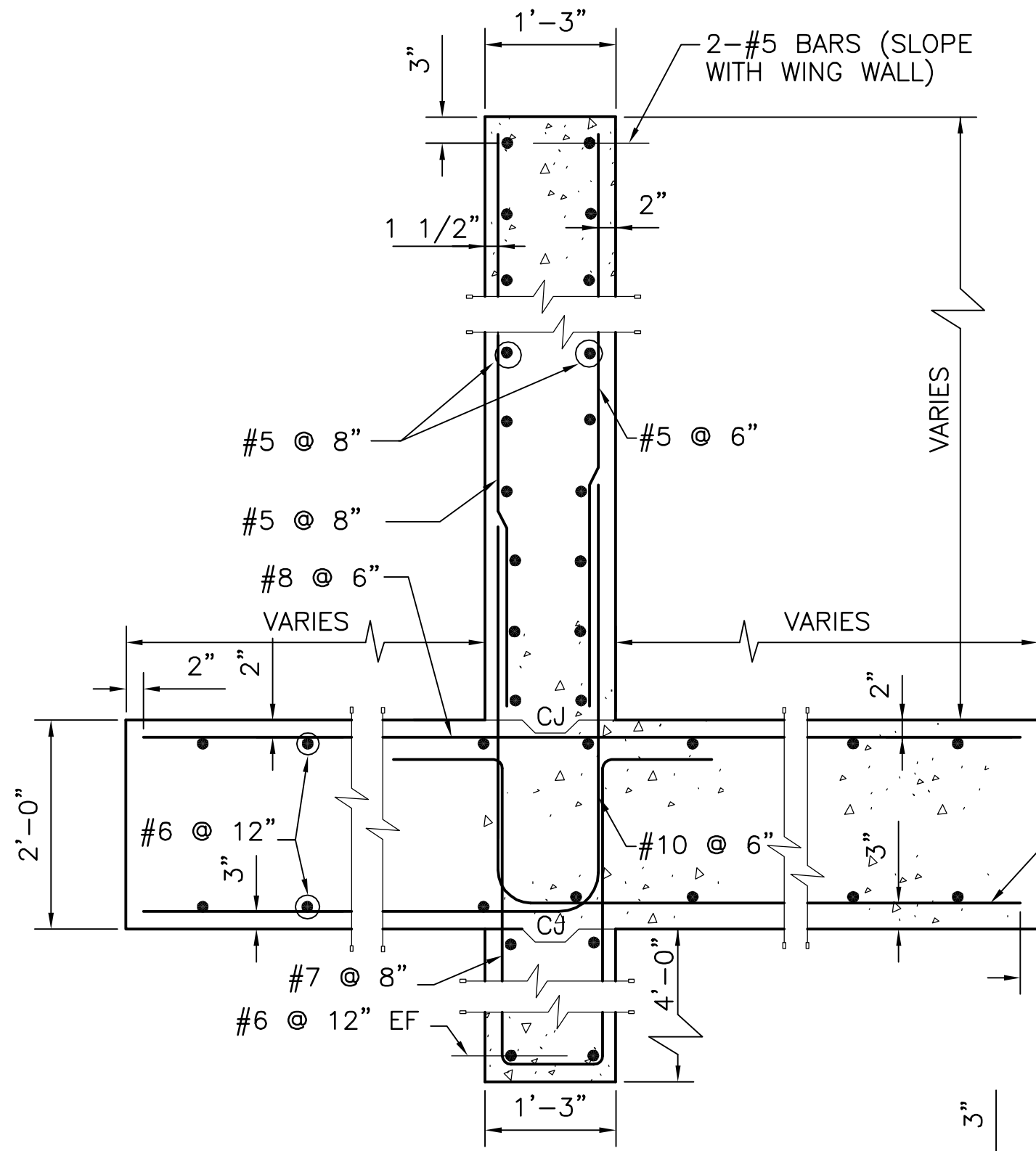
APPROVED	SEAL
ACTIVITY - SATISFACTORY TO	
DATE APPROVED	
FOR EFD FOR COMMANDER NAVFAC	
DATE	
A/E	EFD
DESIGN	
DRAWN	
REVIEW	
OC	
CHIEF ARCH/ ENGR.	
PROJECT MANAGER	
FIRE PROTECTION	
BRANCH MANAGER	
DESIGN DIRECTOR	

DEPARTMENT OF THE NAVY	SECTION AND DETAILS
NAVAL FACILITIES ENGINEERING COMMAND	
BOX MAGAZINE - TYPE M	

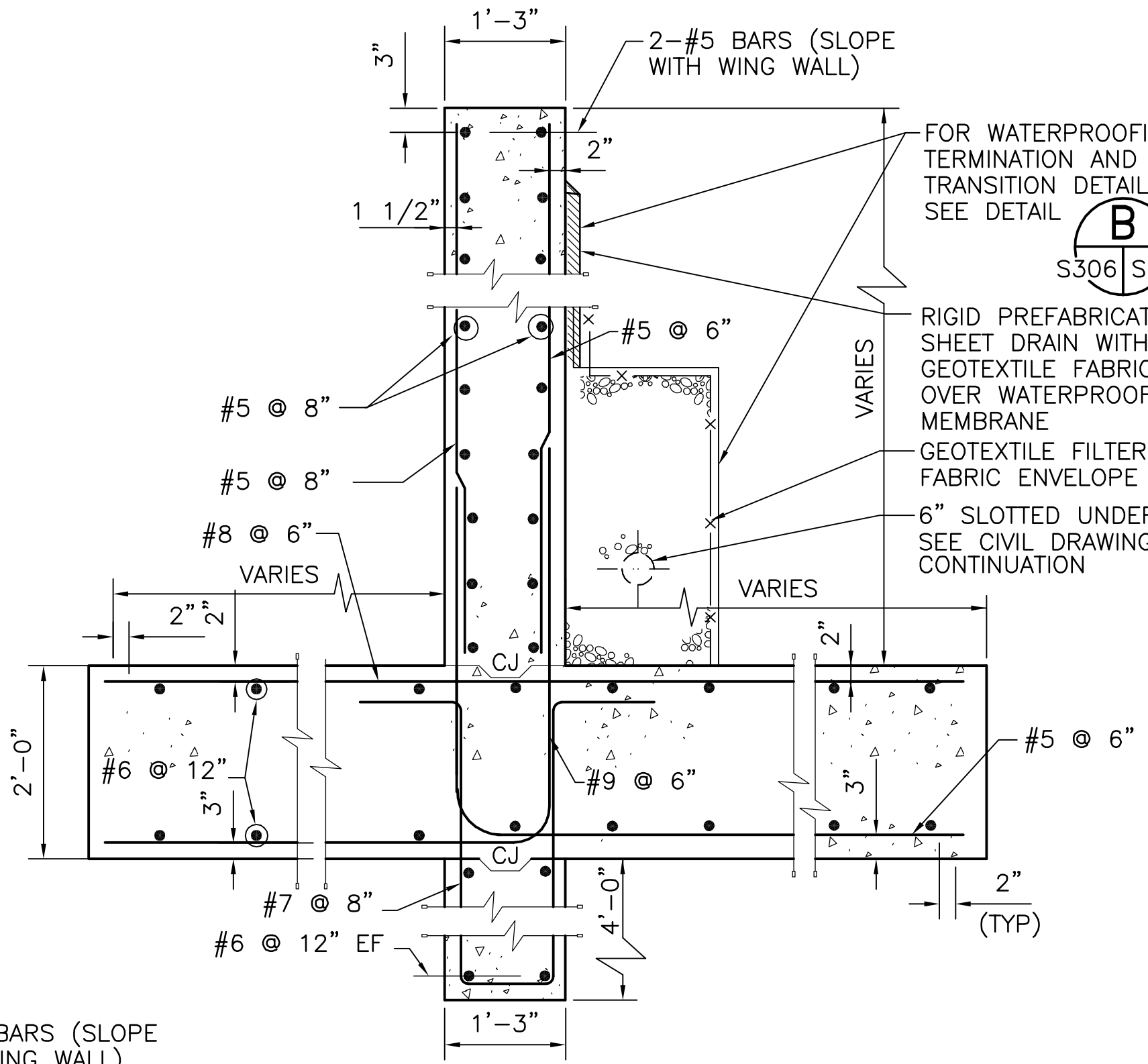
CODE ID. NO. 80091	SIZE D
SCALE: AS NOTED	
EFD NO.	
STA. PROJ. NO.	
SPEC. NO.	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO. 10400013	
SHEET 13 OF 27	
S-305	
DRAWING REVISION MAY 2000	

FILENAME: STDIMAG-M-REV-S-305.DWG, UPDATED ON 10/08/02 AT 07:55, XREFS: NONE

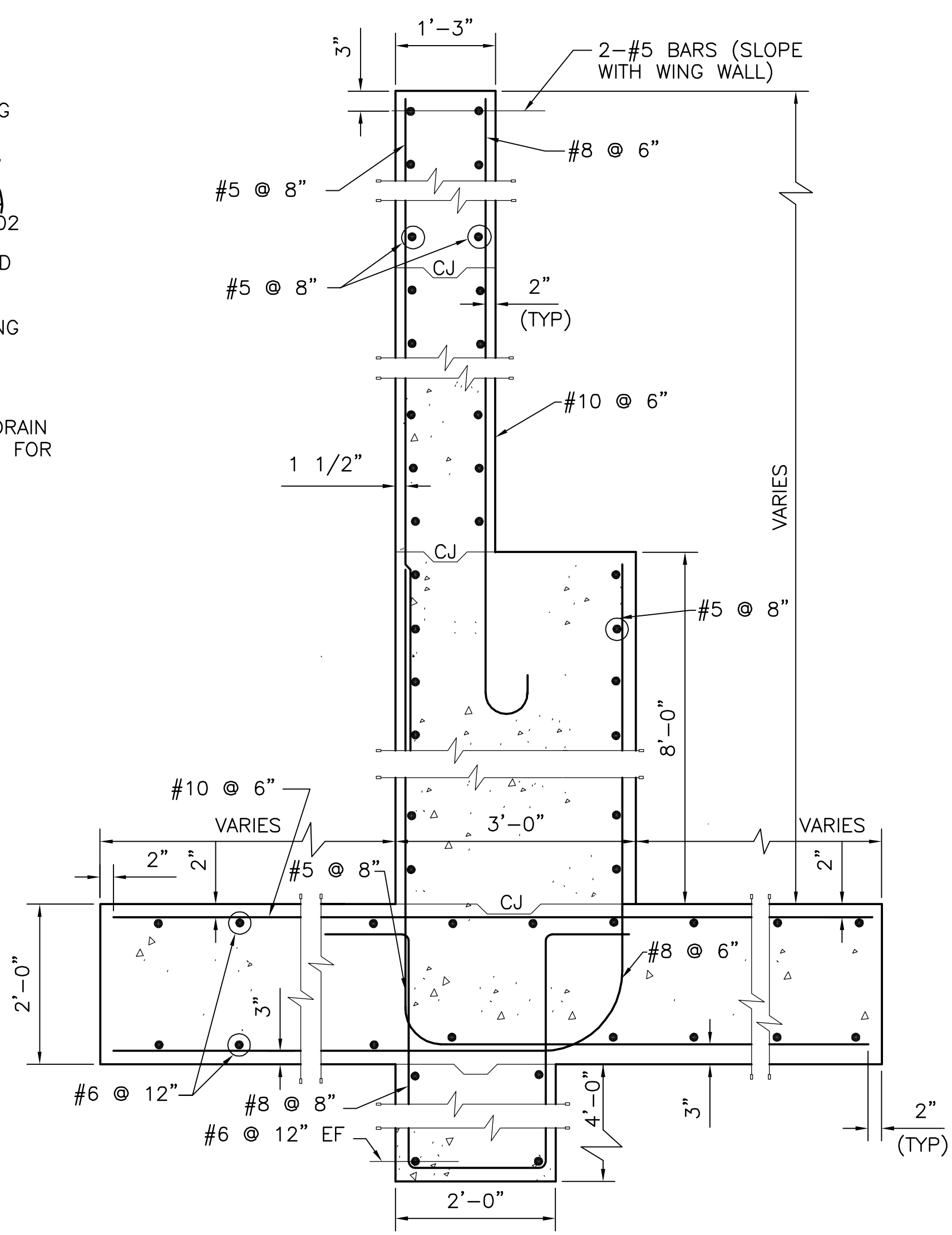
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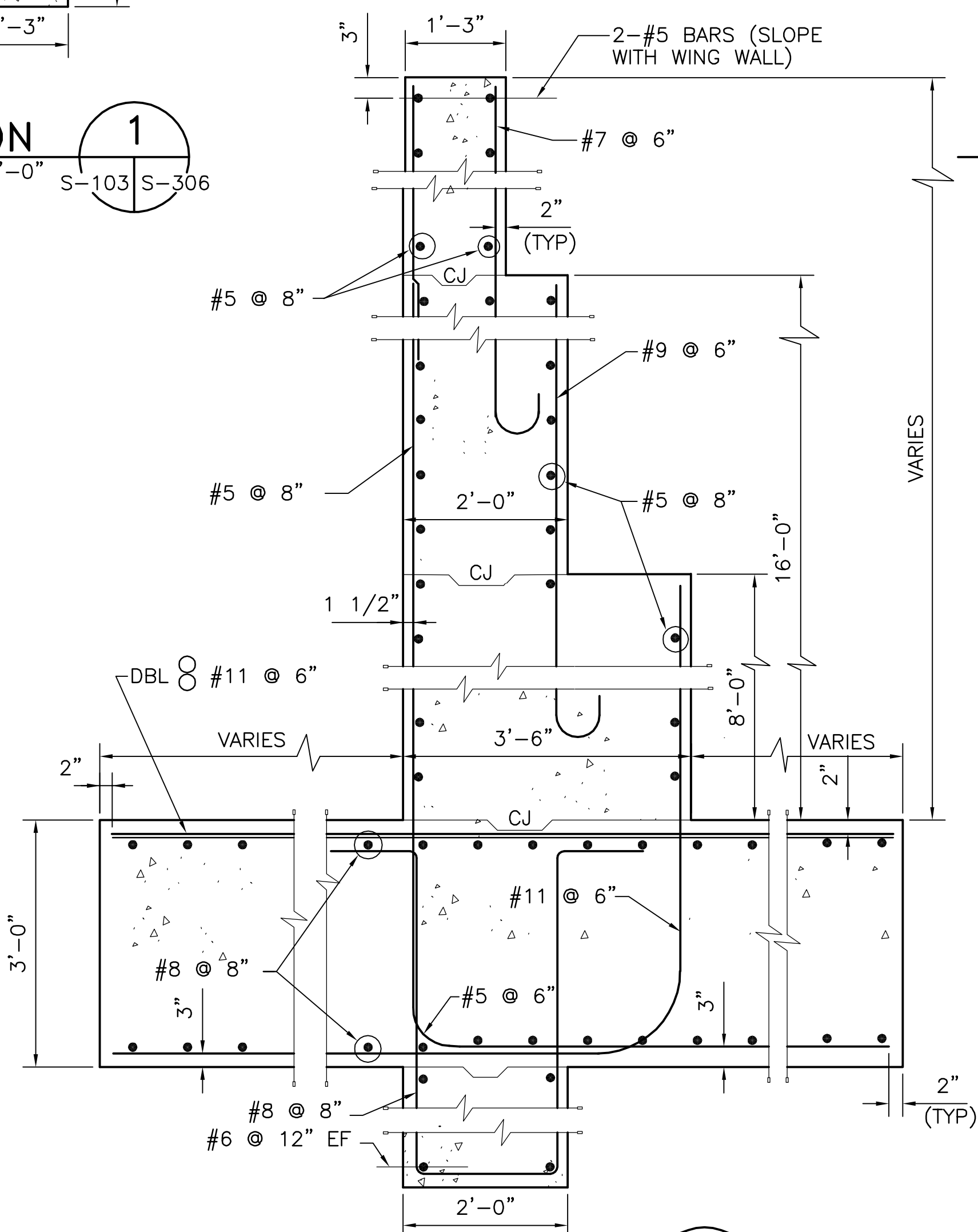
SECTION 1
SCALE: 3/4"=1'-0"
S-103 S-306



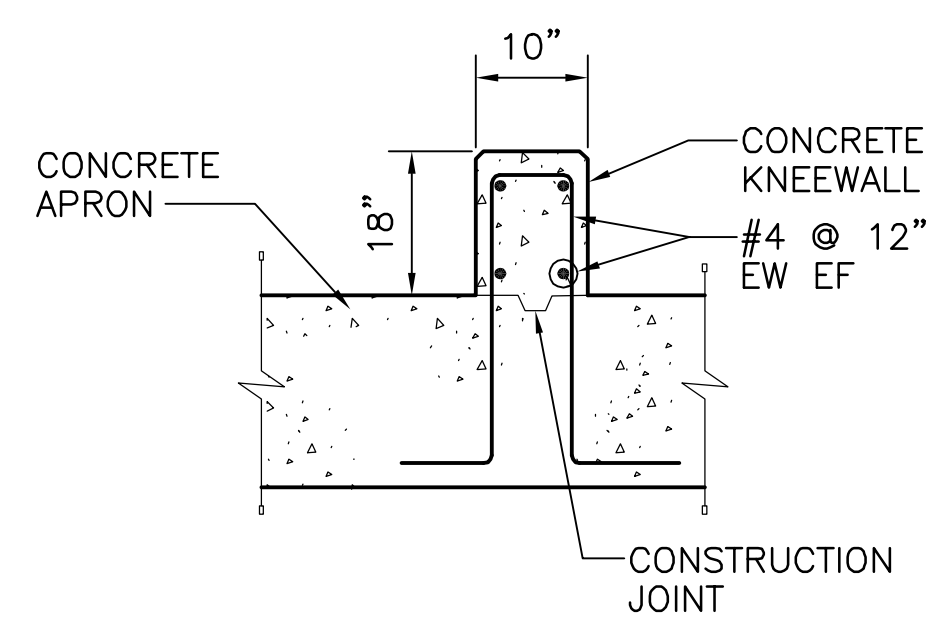
SECTION 2
SCALE: 3/4"=1'-0"
S-103 S-306



SECTION 3
SCALE: 3/4"=1'-0"
S-103 S-306



SECTION 4
SCALE: 3/4"=1'-0"
S-103 S-306



TYPICAL CONCRETE KNEEWALL

DETAIL A
NO SCALE
S-103 S-306

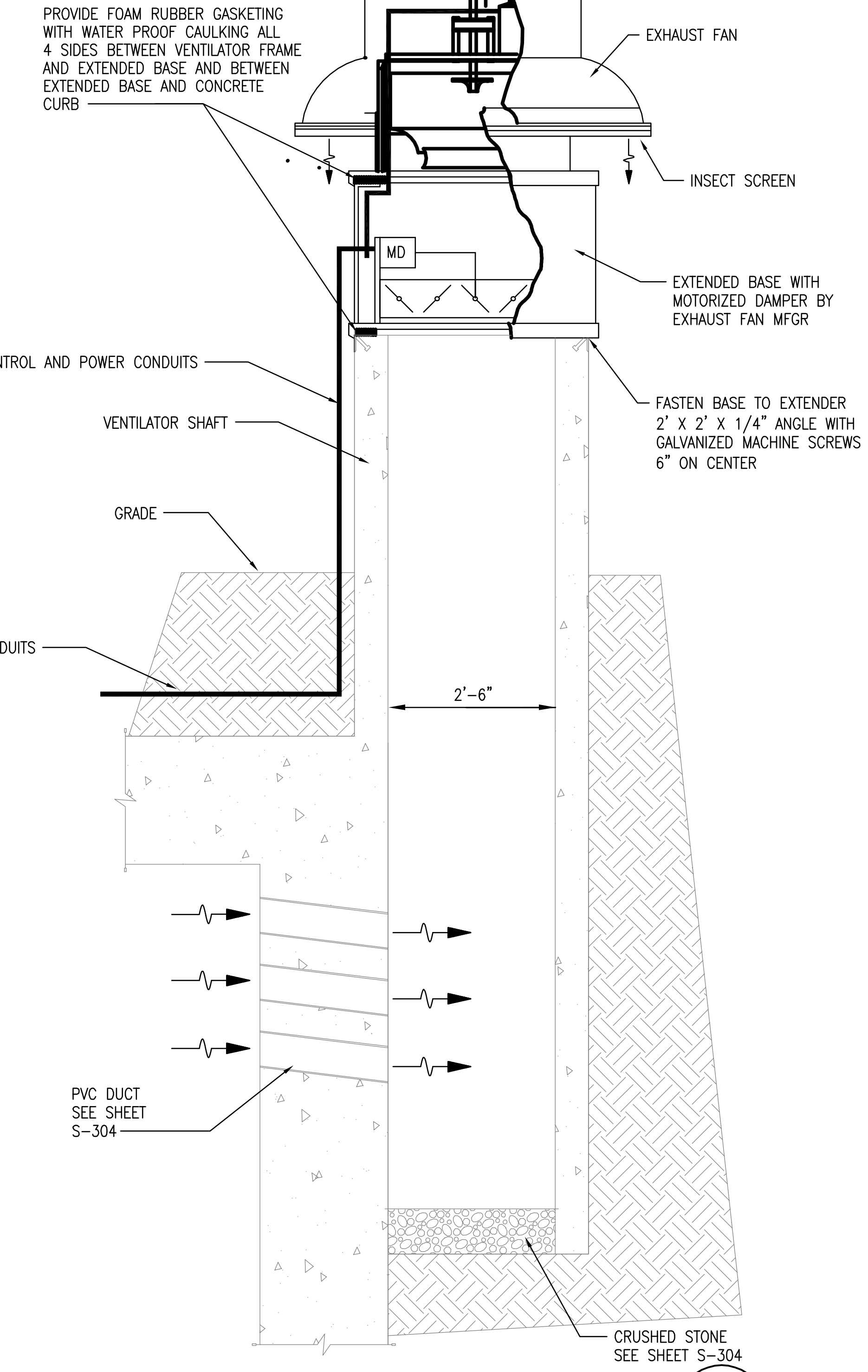
NOTES

- SEE SHEET S-304 FOR REQUIRED REBAR SPLICE LENGTHS.
- SEE SHEET S-301 FOR TOP OF FOOTING ELEVATION.
- WATERPROOFING AND DRAINAGE DETAILS SHOWN IN SECTION 2 ARE TYPICAL FOR ALL SECTIONS.
- VERTICAL BARS WITH HOOKS ARE TO BE EMBEDDED MINIMUM DEVELOPMENT LENGTH BELOW CONSTRUCTION JOINT.

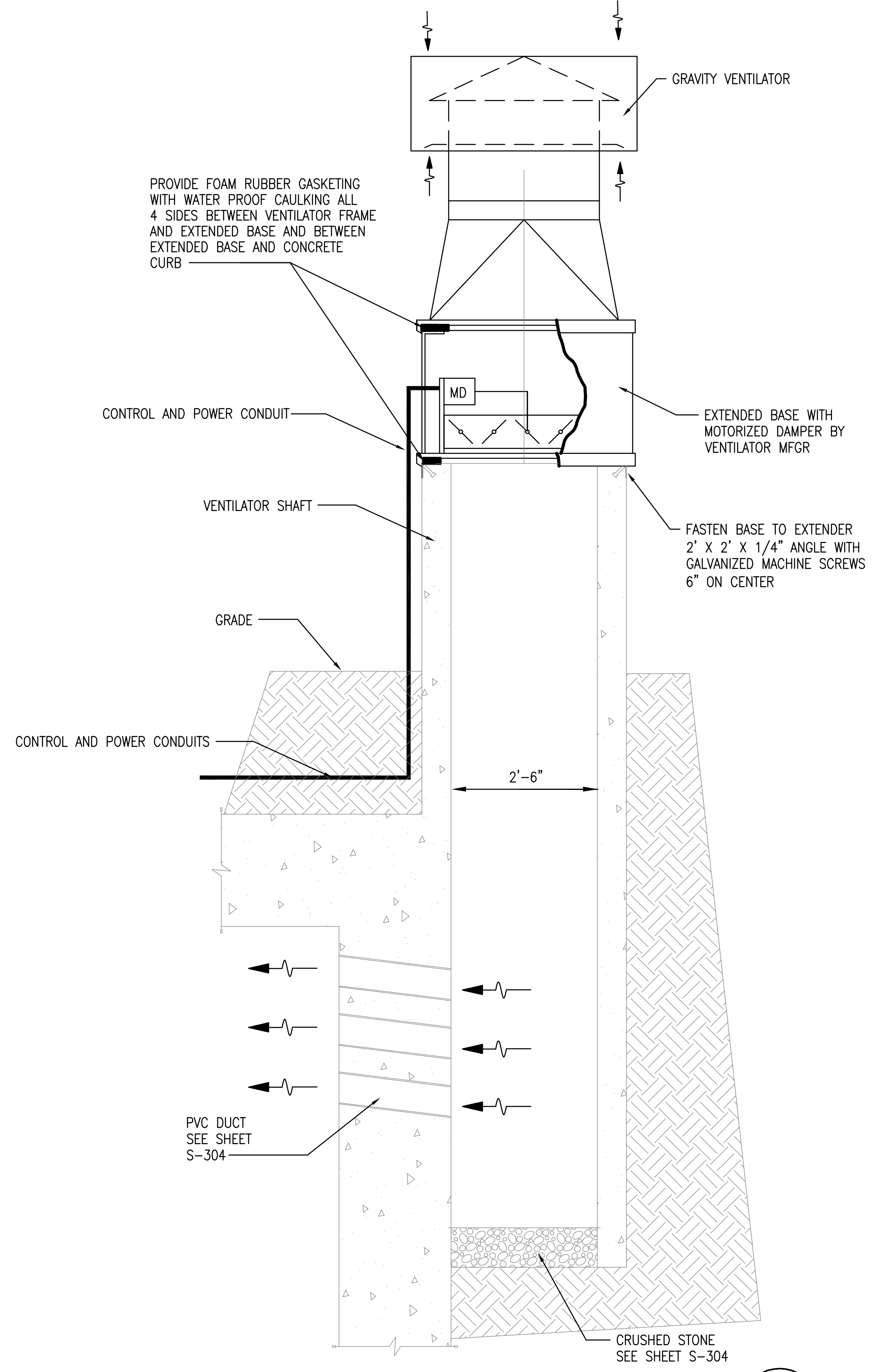
GRAPHIC SCALE



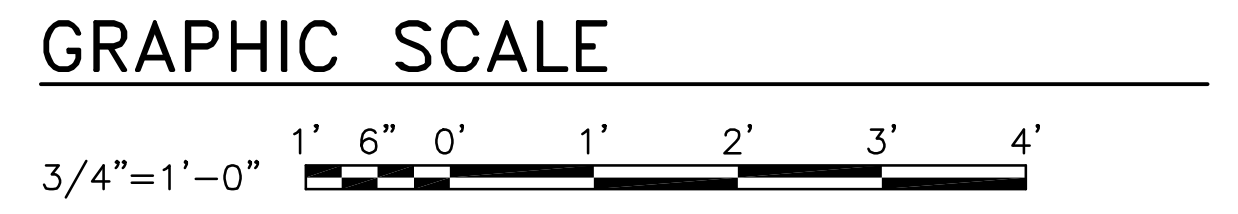
DATE	APPROVED
DESCRIPTION	SEAL
SYMBOL	
NAVAL FACILITIES ENGINEERING COMMAND	
ACTIVITY - SATISFACTORY TO	
DATE	APPROVED
FOR EFD FOR COMMANDER NAVFAC	
DATE	
A/E	EFD
DESIGN	
DRAWN	
REVIEW	
OC	
CHEF ARCH/ ENGR.	
PROJECT MANAGER	
FIRE PROTECTION	
BRANCH MANAGER	
DESIGN DIRECTOR	
DEPARTMENT OF THE NAVY	
NAVAL FACILITIES ENGINEERING COMMAND	
BOX MAGAZINE - TYPE M	
SECTIONS AND DETAILS	
CODE ID. NO. 80091	SIZE D
EFD NO.	SCALE: AS NOTED
STA. PROJ. NO.	
SPEC. NO.	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	10400014
SHEET	14 OF 27
S-306	
DRAWING REVISION MAY 2000	



EXHAUST FAN SECTION (TYPICAL) A
 SCALE: 3/4" = 1' - 0" M-101 M-301



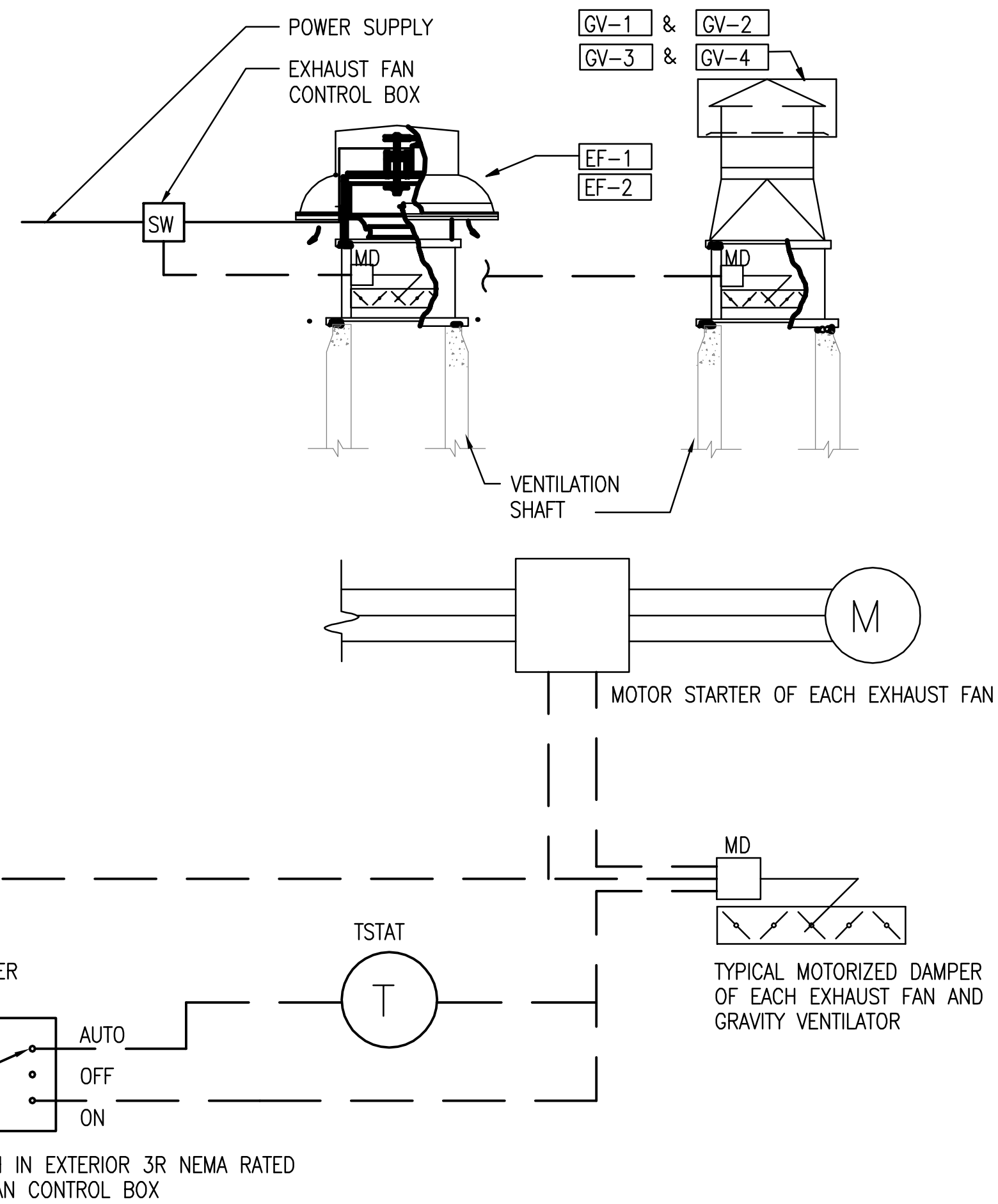
GRAVITY VENTILATOR SECTION (TYPICAL) B
 SCALE: 3/4" = 1' - 0" M-101 M-301



FILENAME: 2K0030M301.DWG, UPDATED ON 10/08/02 AT 08:01, XREFS: NONE

	DATE	APPR
	SYL	DESCRIPTION
NAVAL FACILITIES ENGINEERING COMMAND		
SEAL		
ACTIVITY - SATISFACTORY TO		
DATE		
APPROVED		
FOR EFD FOR COMMANDER NAVFAC		
DATE		
A/E		EFD
DESIGN		
DRAWN		
REVIEW		
QC		
CHIEF ARCH/ ENGR.		
PROJECT MANAGER		
FIRE PROTECTION		
BRANCH MANAGER		
DESIGN DIRECTOR		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND BOX MAGAZINE - TYPE M SECTIONS AND DETAILS		
CODE ID. NO. 80091	SIZE	D
SCALE: AS NOTED		
EFD NO.		
STA. PROJ. NO.		
SPEC. NO.		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO. 10400016		
SHEET 16 OF 27		
M-301		
DRAWFORM REVISION MAY 2000		

1 2 3 4 5



EXHAUST FAN CONTROL DIAGRAM
SCALE: NONE

SEQUENCE OF OPERATION

AUTOMATIC OPERATION:

- 1 WHEN THE HOA SWITCH IS IN THE "AUTO" POSITION AND THE ROOM TEMPERATURE RISES ABOVE 85° F, THE GRAVITY VENTILATOR AND EXHAUST FAN MOTORIZED DAMPERS SHALL OPEN. WHEN ALL DAMPERS ARE OPEN THE EXHAUST FANS SHALL RUN CONTINUOUSLY.
- 2 WHEN THE HOA SWITCH IS IN THE "AUTO" POSITION AND THE ROOM TEMPERATURE FALLS BELOW 85° F, THE EXHAUST FAN SHALL BE DEENERGIZED. WHEN BOTH FANS ARE DEENERGIZED, ALL MOTORIZED DAMPERS SHALL CLOSE.

MANUAL OPERATION:

- 1 EXHAUST SYSTEM SHALL BE MANUALLY ENERGIZED BY HOA SWITCH. WHEN THE HOA SWITCH IS PLACED IN "ON" POSITION THE GRAVITY VENTILATOR AND EXHAUST FAN MOTORIZED DAMPERS SHALL OPEN. WHEN ALL DAMPERS ARE OPEN THEN THE EXHAUST FANS SHALL RUN CONTINUOUSLY.
- 2 WHEN THE HOA SWITCH IS IN THE "OFF" POSITION THE EXHAUST FAN SHALL BE DEENERGIZED. WHEN BOTH FANS ARE DEENERGIZED, ALL MOTORIZED DAMPERS SHALL CLOSE.

EXHAUST FAN SCHEDULE

MARK	CFM	E.S.P. (IN. W.G.)	MOTOR DATA			NEMA STARTER	DRIVE TYPE	CONFIGURATION	DAMPER (BY FAN MFR)			LOCATION	REMARKS
			HP	RPM	VOLT/PH				TYPE	SIZE	Δ P (IN WG)		
EF-1	2000	0.50	3/4	1200	208/3	0	BELT	ROOFTOP	MD	30x30	0.10	VENTILATION SHAFT	① ② ③ ④
EF-2	2000	0.50	3/4	1200	208/3	0	BELT	ROOFTOP	MD	30x30	0.10	VENTILATION SHAFT	① ② ③ ④

- ① INSECT SCREEN
- ② PROVIDE EXTENDED BASE WITH ACCESS DOOR TO MOTORIZED DAMPER MOTOR AND LINKAGE
- ③ PROVIDE FABRICATED BASE FOR A 3"-2" O.D. SQUARE CONCRETE CURB
- ④ PROVIDE INTERGAL DISCONNECT

GRAVITY VENTILATOR SCHEDULE

MARK	CFM	E.S.P. (IN. W.G.)	CONFIGURATION	DAMPER (BY FAN MFR)			LOCATION	REMARKS
				TYPE	SIZE	Δ P (IN WG)		
GV-1	2000	0.10	GRAVITY WITH CONICAL WEATHER CAP, WIND BAND & INSECT SCREEN	MD	30x30	0.10	VENTILATION SHAFT	① ②
GV-2	2000	0.10	GRAVITY WITH CONICAL WEATHER CAP, WIND BAND & INSECT SCREEN	MD	30x30	0.10	VENTILATION SHAFT	① ②
GV-3	2000	0.10	GRAVITY WITH CONICAL WEATHER CAP, WIND BAND & INSECT SCREEN	MD	30x30	0.10	VENTILATION SHAFT	① ②
GV-4	2000	0.10	GRAVITY WITH CONICAL WEATHER CAP, WIND BAND & INSECT SCREEN	MD	30x30	0.10	VENTILATION SHAFT	① ②

- ① PROVIDE FABRICATED BASE FOR A 3"-2" O.D. SQUARE CONCRETE CURB
- ② PROVIDE EXTENDED BASE WITH ACCESS DOOR TO MOTORIZED DAMPER MOTOR AND LINKAGE

FILENAME: 2K0030M601.DWG, UPDATED ON 10/08/02 AT 08:00, XREFS: NONE

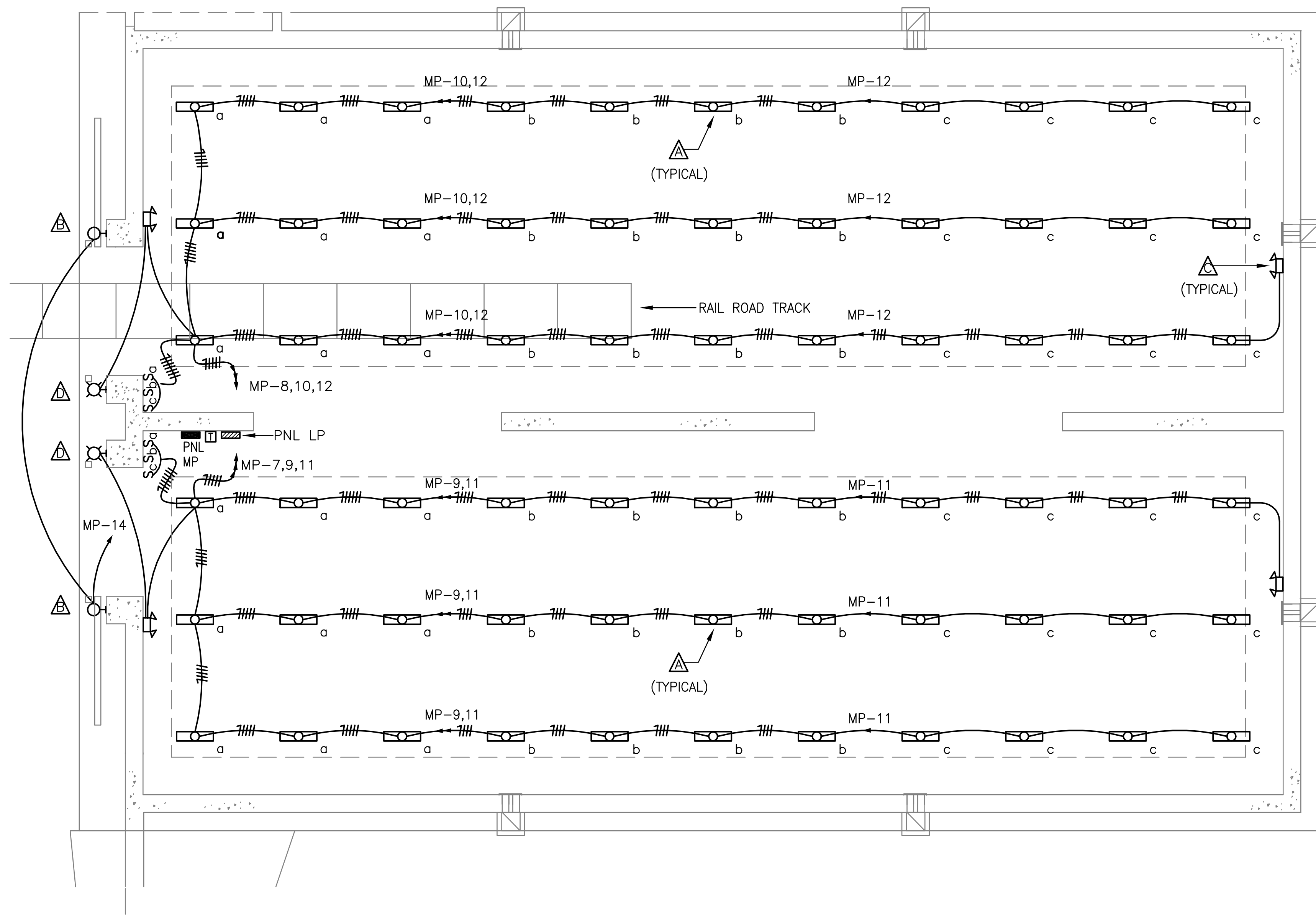
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
BOX MAGAZINE - TYPE M
EQUIPMENT SCHEDULES AND CONTROLS

CODE ID. NO. 80091 | SIZE D
SCALE: AS NOTED
EFD NO. _____
STA. PROJ. NO. _____
SPEC. NO. _____
CONSTR. CONTR. NO. _____
NAVFAC DRAWING NO. 10400017
SHEET 17 OF 27
M-601
DRAWFORM REVISION MAY 2000

DATE _____
APPROVED _____
ACTIVITY - SATISFACTORY TO _____
DATE APPROVED _____
FOR EFD FOR COMMANDER NAVFAC _____
DATE _____
A/E _____ EFD _____
DESIGN _____
DRAWN _____
REVIEW _____
QC _____
CHIEF ARCH/ ENGR. _____
PROJECT MANAGER _____
FIRE PROTECTION _____
BRANCH MANAGER _____
DESIGN DIRECTOR _____

1 2 3 4 5

FILENAME: STDWAG-M-REV-E-101.DWG, UPDATED ON 11/11/02 AT 12:43, XREFS: NONE

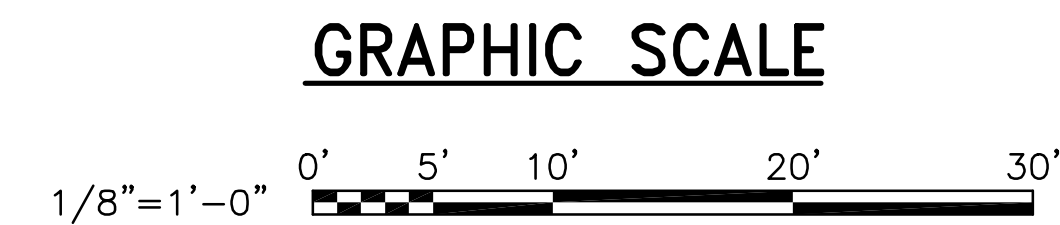


FLOOR PLAN - LIGHTING
 SCALE: 1/8"=1'-0"

LIGHTING FIXTURE SCHEDULE					
FIXTURE SYMBOL	SKETCH NO, TYPE	NUMBER AND TYPE OF LAMP	VOLTAGE	MOUNTING	NOTES
⚡	DETAIL "A" SEE SHEET E-701	2-60W HO FLUORESCENT	277V	SURFACE CEILING MOUNTED	①
⚡	NL-25 SEE SHEET E-701	1-250 WATT HPS	277V	WALL MOUNTED 22' AFF	③
⚡	DETAIL "C" SEE SHEET E-701	2-18W	277V	WALL MOUNTED 18' AFF	
⚡	DETAIL "D" SEE SHEET E-701	1-18W	6V DC	WALL MOUNTED 18' AFF	②

NOTES

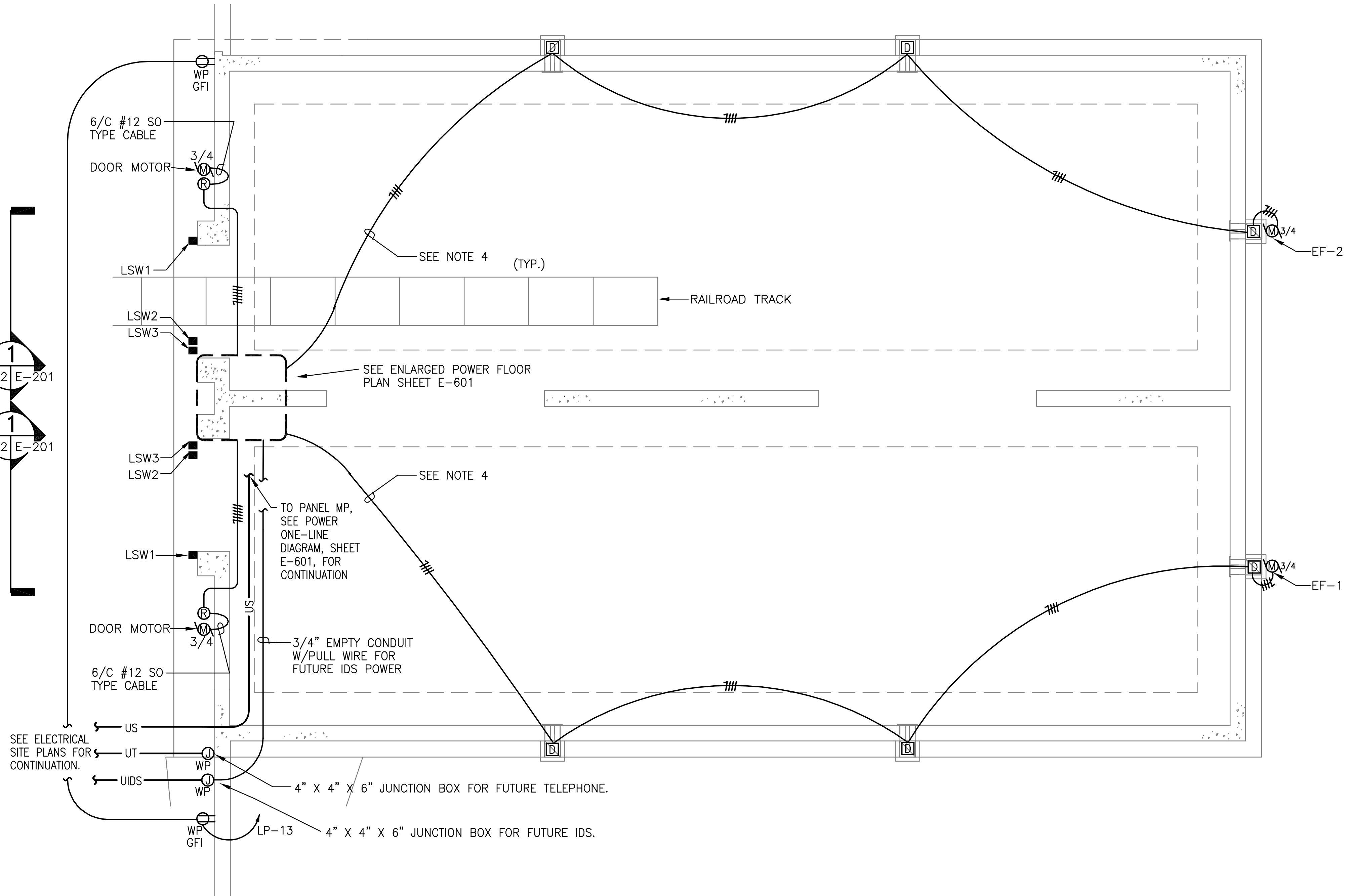
- ① PROVIDE WITH LOW TEMP BALLAST.
- ② UL LISTED FOR WET LOCATIONS.
- ③ PROVIDE WITH INTEGRAL PHOTO CONTROL.



DATE		APPR
DATE		SYN
DATE		DESCRIPTION
DATE		SEAL
APPROVED		
ACTIVITY - SATISFACTORY TO		
DATE		
APPROVED		
FOR EFD FOR COMMANDER NAVFAC		
DATE		EFD
A/E	DESIGN	
	DRAWN	
	REVIEW	
	QC	
	CHIEF ARCH/ ENGR.	
PROJECT MANAGER		
FIRE PROTECTION		
BRANCH MANAGER		
DESIGN DIRECTOR		
DEPARTMENT OF THE NAVY		
NAVAL FACILITIES ENGINEERING COMMAND		
BOX MAGAZINE - TYPE M		
LIGHTING PLAN		
CODE ID. NO. 80091	SIZE	D
SCALE:		
EFD NO.		
STA. PROJ. NO.		
SPEC. NO.		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.		
10400019		
SHEET 19 OF 27		
E-101		
DRAWING REVISION MAY 2000		

1 2 3 4 5

D C B A

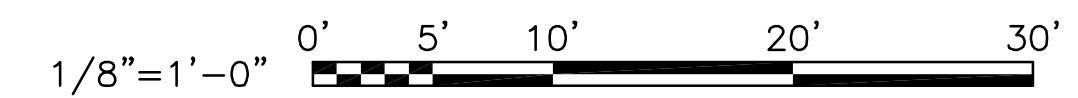


FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- 1. MOUNT PUSH BUTTONS 48" AFF.
- 2. REFER TO SHEET E-602 FOR DOOR MOTOR CONTROL DIAGRAM.
- 3. REFER TO SHEET E-601 FOR POWER ONE-LINE DIAGRAM.
- 4. USE POWER CONDUIT FOR CONTROL WIRING TO DAMPER MOTORS.

GRAPHIC SCALE



FILENAME: STDWAG-M-REV-E-102.DWG, UPDATED ON 11/12/02 AT 09:58, XREFS: NONE

1 2 3 4 5

DATE	APPR	DESCRIPTION	SYN
NAVAL FACILITIES ENGINEERING COMMAND			
APPROVED SEAL			
ACTIVITY - SATISFACTORY TO			
DATE			
APPROVED			
FOR EFD FOR COMMANDER NAVFAC			
DATE			
A/E EFD			
DESIGN			
DRAWN			
REVIEW			
QC			
CHIEF ARCH/ ENGR.			
PROJECT MANAGER			
FIRE PROTECTION			
BRANCH MANAGER			
DESIGN DIRECTOR			
DEPARTMENT OF THE NAVY		BOX MAGAZINE - TYPE M	
NAVAL FACILITIES ENGINEERING COMMAND		POWER PLAN	
CODE ID. NO. 80091 SIZE D			
SCALE:			
EFD NO.			
STA. PROJ. NO.			
SPEC. NO.			
CONSTR. CONTR. NO.			
NAVFAC DRAWING NO.			
10400020			
SHEET 20 OF 27			
E-102			
<small>DRAWFORM REVISION MAY 2000</small>			

PANELBOARD MP SCHEDULE

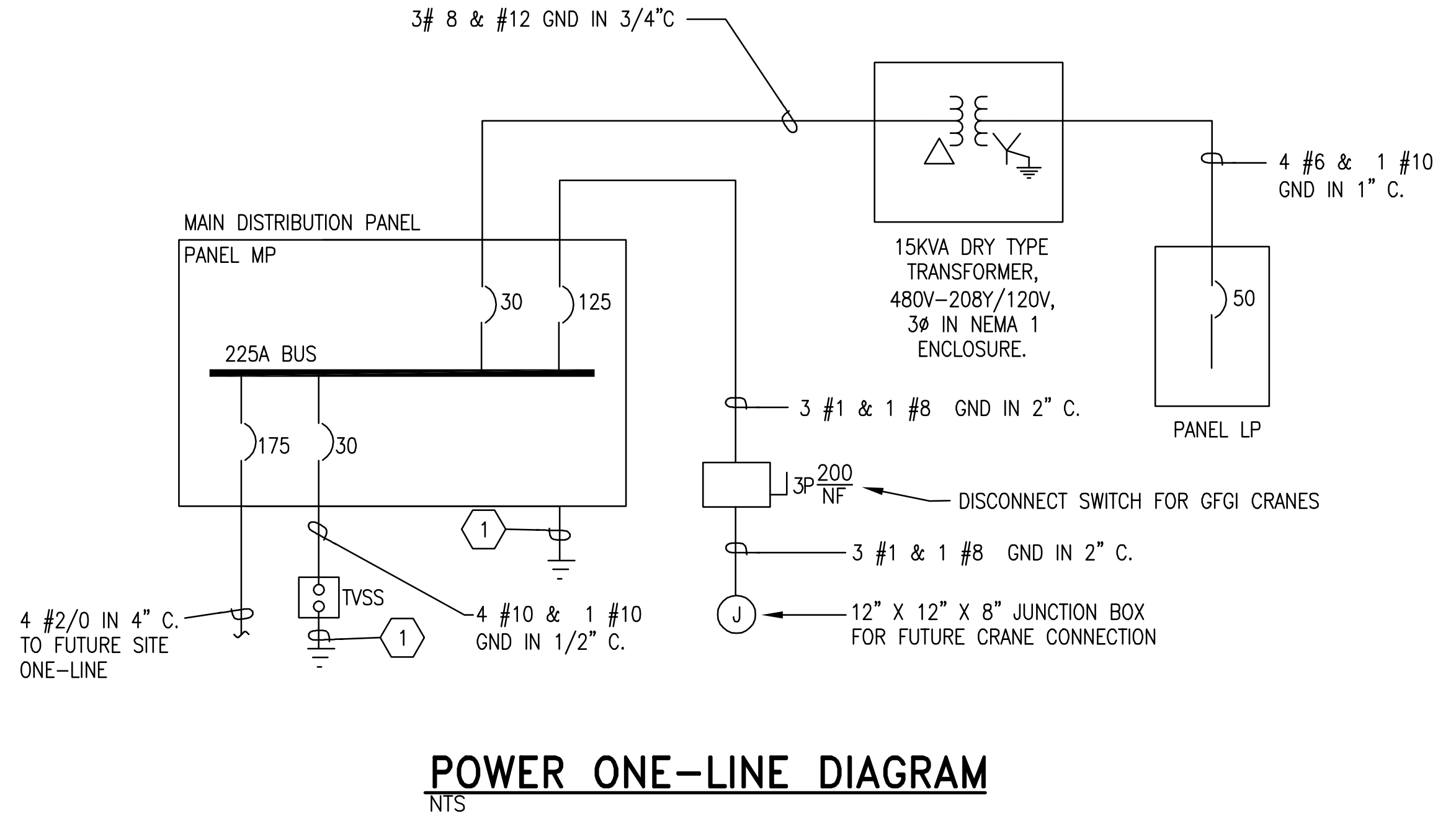
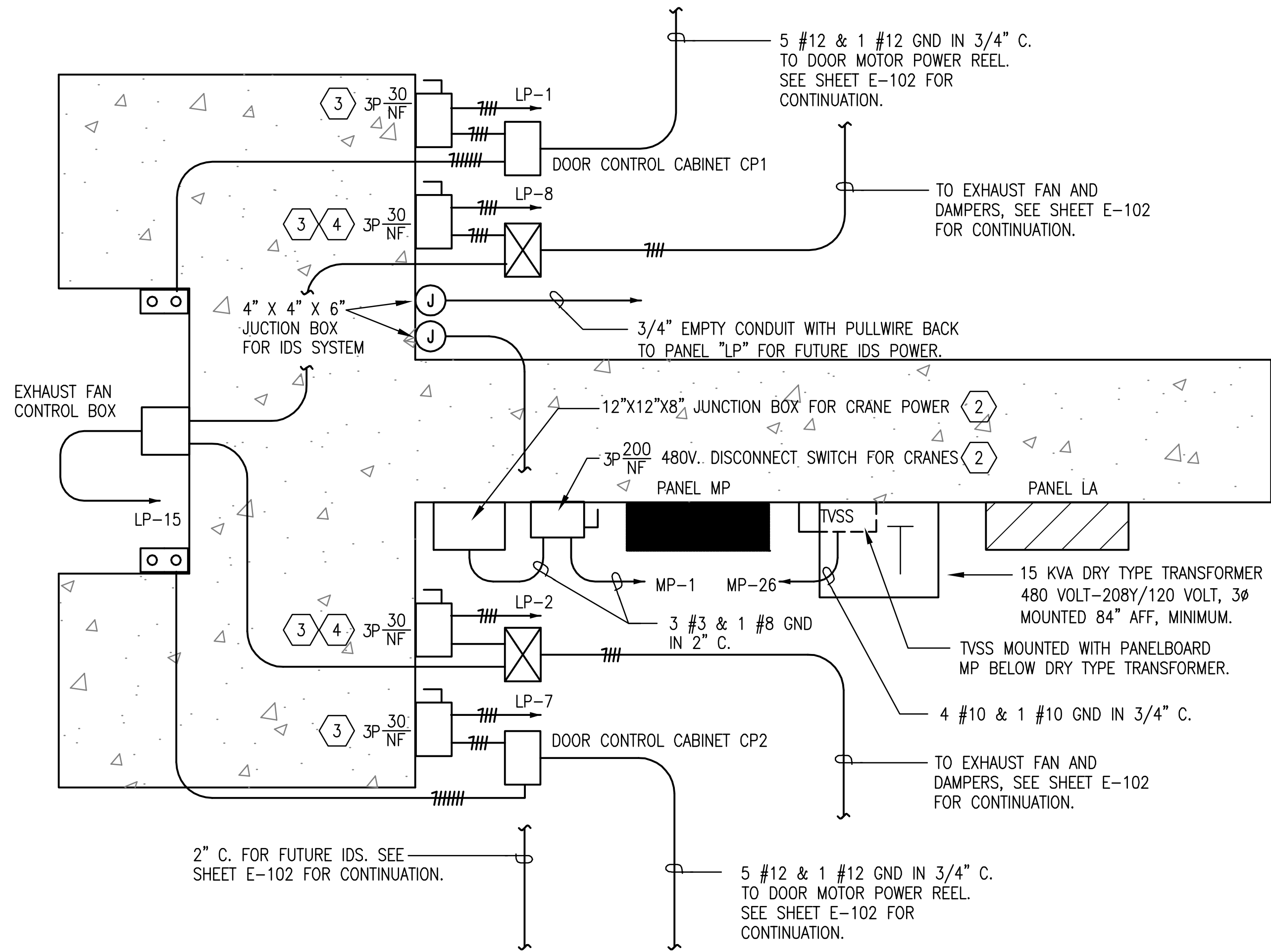
225A MAINS WITH 175A MCB, 480Y/277 V., 3 PHASE, 4 WIRE, 14 KAIC MINIMUM, SURFACE MOUNT

LOAD SERVED	LOAD (AMPS)			BKR. TRIP	WIRE SIZE	CKT. NO.	PHASE	CT. NO.	WIRE SIZE	BKR. TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C								A	B	C	
CRANES (GFGI)	100			125	1	1	A	2	8	30	18			PANEL LP THROUGH 15 KVA TRANSFORMER
		100					B					18		
			100				C						18	
INTERIOR LIGHTS	5			20	12	7	A	8	12	20	5			INTERIOR LIGHTS
INTERIOR LIGHTS		7		20	12	9	B	10	12	20	7			INTERIOR LIGHTS
INTERIOR LIGHTS			7	20	12	11	C	12	12	20	7			INTERIOR LIGHTS
SPARE				20	13			14	12	20	2			EXTERIOR LIGHTS
SPARE				20	15			16						SPACE
SPARE				20	17			18						SPACE
SPACE					19			20						SPACE
SPACE					21			22						SPACE
SPACE					23			24						SPACE
SPACE					25			26	10	30	0			TVSS
SPACE					27						0			
SPACE					29							0		
TOTAL	105	107	107								25	25	25	TOTAL
TOTAL CONNECTED AMPS A: 130 B: 132 C: 132														

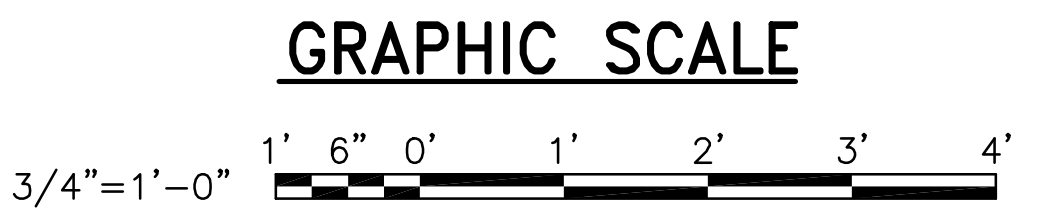
PANELBOARD LP SCHEDULE

100A MAINS WITH 50A MCB, 208Y/120 V., 3 PHASE, 4 WIRE, 10 KAIC MINIMUM, SURFACE MOUNT

LOAD SERVED	LOAD (AMPS)			BKR. TRIP	WIRE SIZE	CKT. NO.	PHASE	CT. NO.	WIRE SIZE	BKR. TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C								A	B	C	
DOOR 1	4			15	12	1	A	2	12	15	4			EF-1
		4					B					4		
			4				C						4	
DOOR 2	4			15	12	7	A	8	12	15	4			EF-2
		4					B					4		
			4				C						4	
RECEPTACLES	9			20	12	13		14		20				SPARE
FAN CONTROL		5		20	12	15		16		20				SPARE
(FUTURE IDS)				20		17		18		20				SPARE
SPACE					19			20						SPACE
SPACE					21			22						SPACE
SPACE					23			24						SPACE
TOTAL	17	13	8								8	8	8	TOTAL
TOTAL CONNECTED AMPS A: 25 B: 21 C: 16														



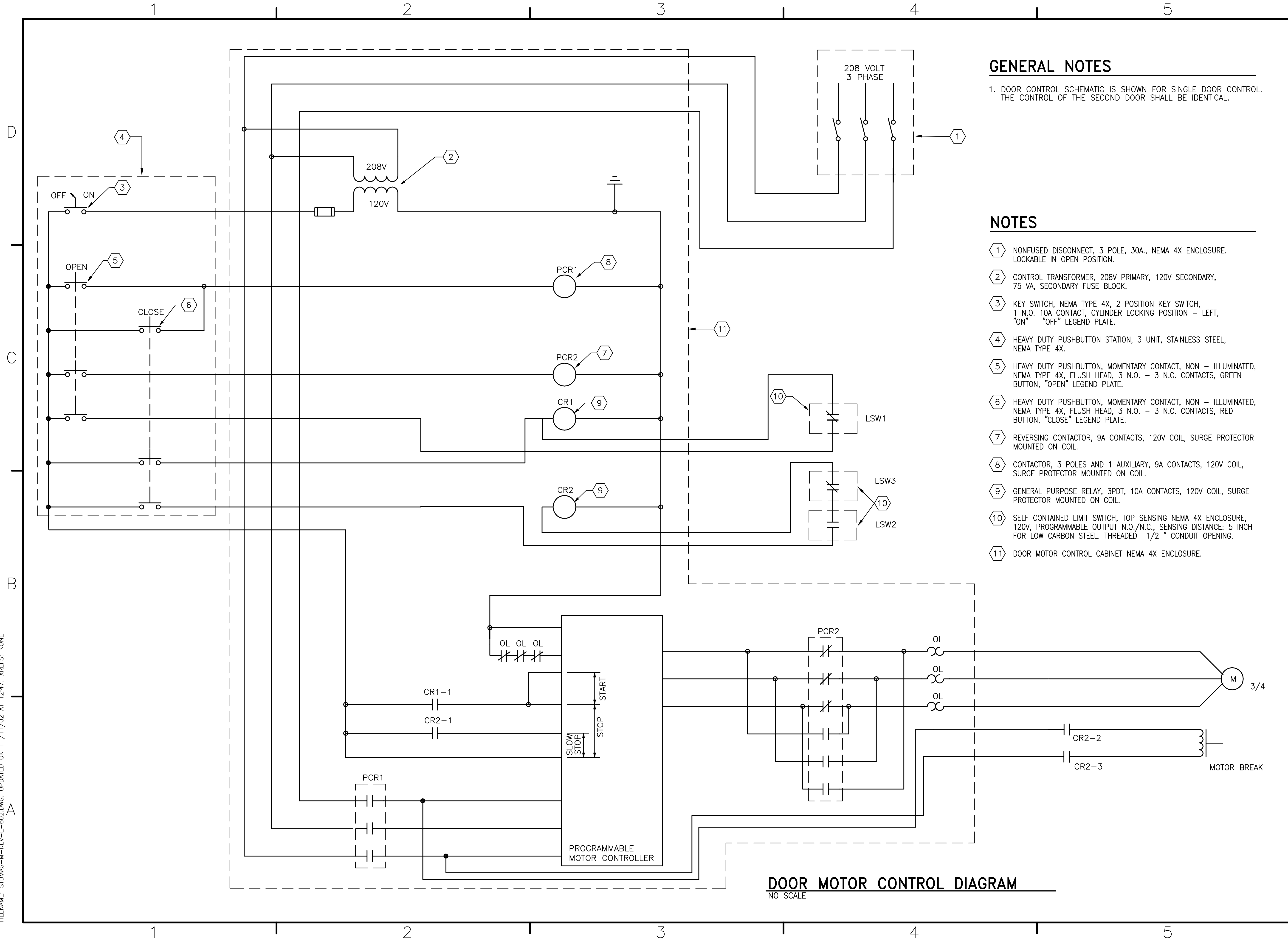
- NOTES:**
- 1 BOND TO GROUND GRID AT TEST WELL.
 - 2 BRIDGE CRANES WILL BE GOVERNMENT FURNISHED GOVERNMENT INSTALLED.
 - 3 PROVIDE WITH OPERATING HANDLE CAPABLE OF BEING LOCKED IN OPEN POSITION.
 - 4 PROVIDE WITH AUXILIARY CONTACTS TO DISCONNECT CONTROL CIRCUIT TO MOTOR CONTROLLER WITH SWITCH IN "OFF POSITION".



FILENAME: STDWAG-M-REV-E-601.DWG, UPDATED ON 11/12/02 AT 09:55, XREFS: NONE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND BOX MAGAZINE - TYPE M POWER RISER AND PANELBOARD SCHEDULES	SEAL APPROVED _____ ACTIVITY - SATISFACTORY TO _____ DATE APPROVED _____ FOR EFD FOR COMMANDER NAVFAC _____ DATE _____ A/E _____ EFD _____ DESIGN _____ DRAWN _____ REVIEW _____ QC _____ CHIEF ARCH/ ENGR. _____ PROJECT MANAGER _____ FIRE PROTECTION _____ BRANCH MANAGER _____ DESIGN DIRECTOR _____
CODE ID. NO. 80091 SIZE D SCALE: _____ STA. PROJ. NO. _____ SPEC. NO. _____ CONSTR. CONTR. NO. _____ NAVFAC DRAWING NO. 10400025 SHEET 25 OF 27 E-601 <small>DRAWFORM REVISION MAY 2000</small>	

FILENAME: STDWAG-M-REV-E-602.DWG, UPDATED ON 11/11/02 AT 12:47, XREFS: NONE



DOOR MOTOR CONTROL DIAGRAM
NO SCALE

GENERAL NOTES

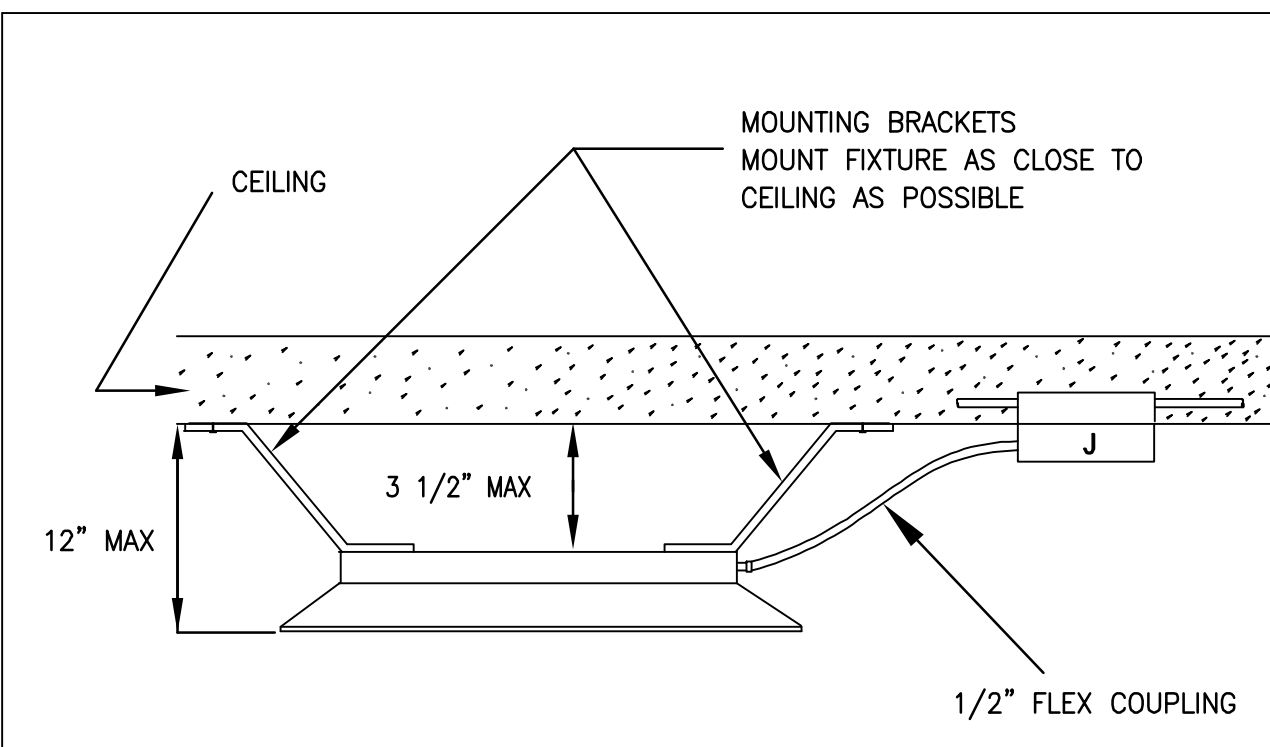
1. DOOR CONTROL SCHEMATIC IS SHOWN FOR SINGLE DOOR CONTROL. THE CONTROL OF THE SECOND DOOR SHALL BE IDENTICAL.

NOTES

- ① NONFUSED DISCONNECT, 3 POLE, 30A., NEMA 4X ENCLOSURE. LOCKABLE IN OPEN POSITION.
- ② CONTROL TRANSFORMER, 208V PRIMARY, 120V SECONDARY, 75 VA, SECONDARY FUSE BLOCK.
- ③ KEY SWITCH, NEMA TYPE 4X, 2 POSITION KEY SWITCH, 1 N.O. 10A CONTACT, CYLINDER LOCKING POSITION - LEFT, "ON" - "OFF" LEGEND PLATE.
- ④ HEAVY DUTY PUSHBUTTON STATION, 3 UNIT, STAINLESS STEEL, NEMA TYPE 4X.
- ⑤ HEAVY DUTY PUSHBUTTON, MOMENTARY CONTACT, NON - ILLUMINATED, NEMA TYPE 4X, FLUSH HEAD, 3 N.O. - 3 N.C. CONTACTS, GREEN BUTTON, "OPEN" LEGEND PLATE.
- ⑥ HEAVY DUTY PUSHBUTTON, MOMENTARY CONTACT, NON - ILLUMINATED, NEMA TYPE 4X, FLUSH HEAD, 3 N.O. - 3 N.C. CONTACTS, RED BUTTON, "CLOSE" LEGEND PLATE.
- ⑦ REVERSING CONTACTOR, 9A CONTACTS, 120V COIL, SURGE PROTECTOR MOUNTED ON COIL.
- ⑧ CONTACTOR, 3 POLES AND 1 AUXILIARY, 9A CONTACTS, 120V COIL, SURGE PROTECTOR MOUNTED ON COIL.
- ⑨ GENERAL PURPOSE RELAY, 3PDT, 10A CONTACTS, 120V COIL, SURGE PROTECTOR MOUNTED ON COIL.
- ⑩ SELF CONTAINED LIMIT SWITCH, TOP SENSING NEMA 4X ENCLOSURE, 120V, PROGRAMMABLE OUTPUT N.O./N.C., SENSING DISTANCE: 5 INCH FOR LOW CARBON STEEL. THREADED 1/2" CONDUIT OPENING.
- ⑪ DOOR MOTOR CONTROL CABINET NEMA 4X ENCLOSURE.

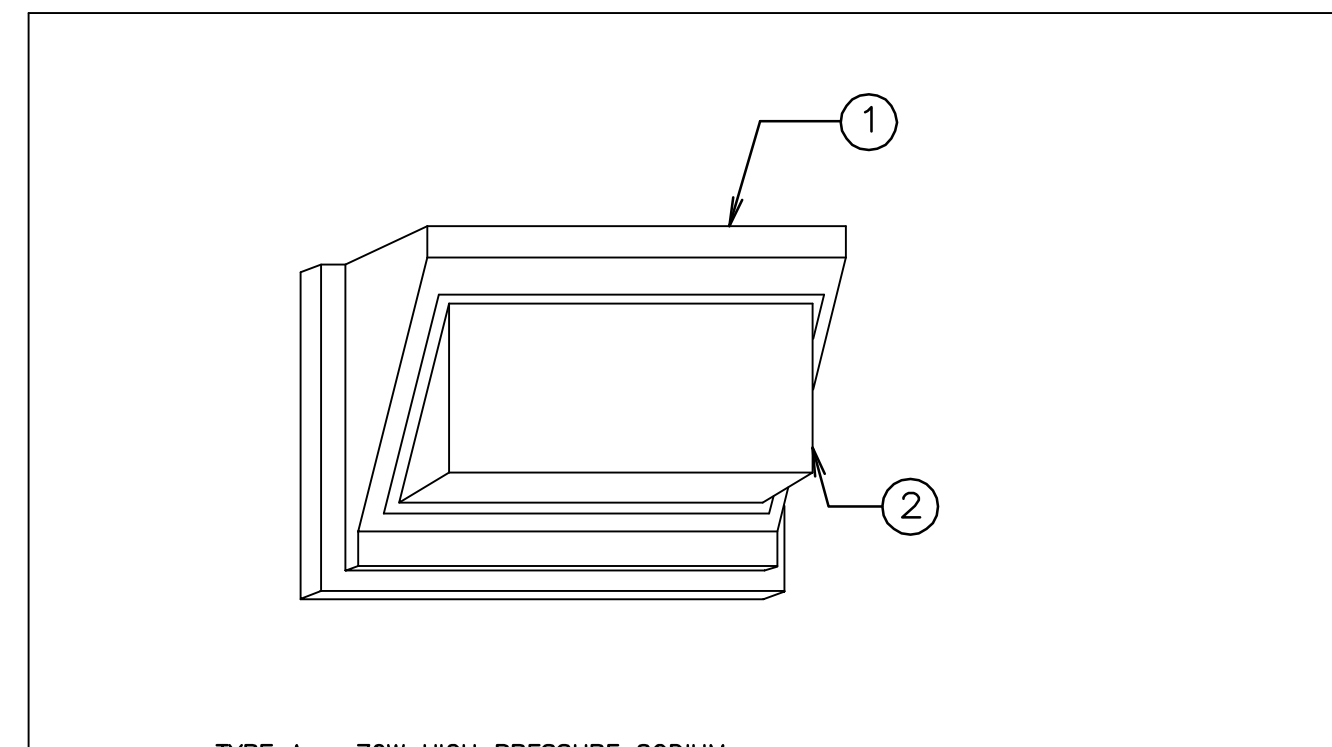
<p>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</p> <p>BOX MAGAZINE - TYPE M</p> <p>DOOR MOTOR CONTROL DIAGRAM</p>	<p>DATE: _____</p> <p>SYN: _____</p> <p>DESCRIPTION: _____</p> <p>APPR: _____</p>									
<p>APPROVED</p> <p>ACTIVITY - SATISFACTORY TO</p> <p>DATE: _____</p> <p>APPROVED</p> <p>FOR EFD FOR COMMANDER NAVFAC</p>										
<p>DATE: _____</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%; border: none;">A/E</td> <td style="width: 40%; border: none;">EFD</td> <td style="width: 30%; border: none;"></td> </tr> <tr> <td style="border: none;">DESIGN</td> <td style="border: none;">DRAWN</td> <td style="border: none;">REVIEW</td> </tr> <tr> <td style="border: none;">QC</td> <td style="border: none;">CHIEF ARCH/ENGR.</td> <td style="border: none;"></td> </tr> </table> <p>PROJECT MANAGER _____</p> <p>FIRE PROTECTION _____</p> <p>BRANCH MANAGER _____</p> <p>DESIGN DIRECTOR _____</p>		A/E	EFD		DESIGN	DRAWN	REVIEW	QC	CHIEF ARCH/ENGR.	
A/E	EFD									
DESIGN	DRAWN	REVIEW								
QC	CHIEF ARCH/ENGR.									
<p>CODE ID. NO. 80091 SIZE D</p> <p>SCALE: _____</p> <p>EFD NO. _____</p> <p>STA. PROJ. NO. _____</p> <p>SPEC. NO. _____</p> <p>CONSTR. CONTR. NO. _____</p> <p>NAVFAC DRAWING NO. 10400026</p> <p>SHEET 26 OF 27</p> <p>E-602</p> <p style="font-size: small;">DRAWING REVISION MAY 2000</p>										

FILENAME: STDWAG-M-REV-E-701.DWG, UPDATED ON 11/11/02 AT 12:47, XREFS: NONE



- LUMINAIRE REQUIREMENTS:**
- 20 GAGE SEAMLESS SHEET STEEL HOUSING
 - STAINLESS STEEL REFLECTOR AND FRAME ASSEMBLY
 - CLEAR LENS
 - STAINLESS STEEL SUSPENSION FLANGES AND CLAMPS.
 - FINISHED WITH CORROSION-RESISTANT WHITE POLYESTER POWDER COAT
 - PROVIDE WITH GASKET ON LENS DOOR

MOUNTED LIGHTING FIXTURE

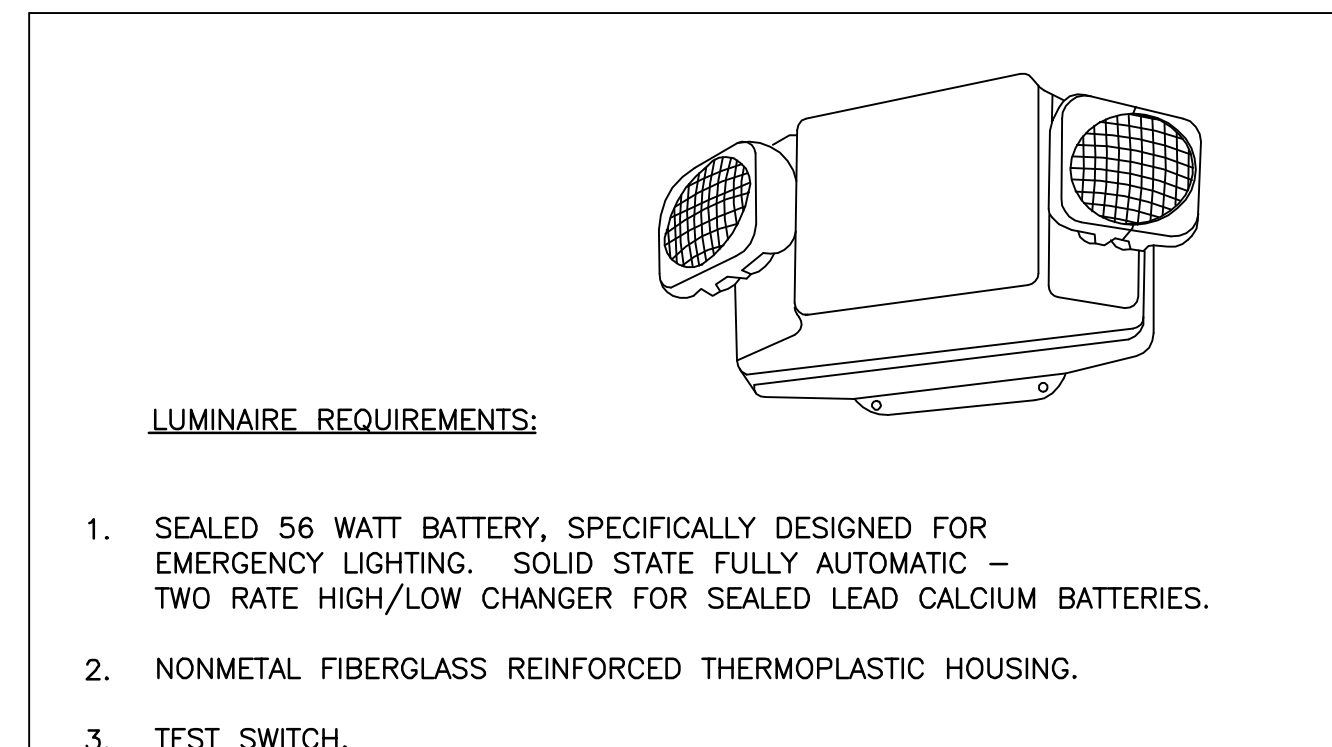


- TYPE A - 70W HIGH PRESSURE SODIUM
 TYPE B - 100W HIGH PRESSURE SODIUM
 TYPE C - 150W HIGH PRESSURE SODIUM
 TYPE D - 175W METAL HALIDE
 TYPE E - 35W LOW PRESSURE SODIUM

- LUMINAIRE REQUIREMENTS**
- HOUSING-DIECAST ALUMINUM, SEALED AND GASKETED. UL LISTED FOR WET LOCATIONS. PROVIDE INTERNAL GREEN GROUNDING SCREW. (DIMENSIONS: APPROXIMATELY 16"L X 10"H X 11"D)
 - REFRACTOR-BOROSILICATE PRISMATIC GLASS. PROVIDE ALUMINUM REFLECTOR.
 - BALLAST-HIGH POWER FACTOR (≥ .9) ENCASED AND POTTED MULTI-VOLTAGE.
 - FINISH-DARK BRONZE, UNLESS OTHERWISE NOTED.
 - LAMP SOCKET SHALL BE ADJUSTABLE.
 - PROVIDE INTEGRAL PHOTOCELL WHEN INDICATED.

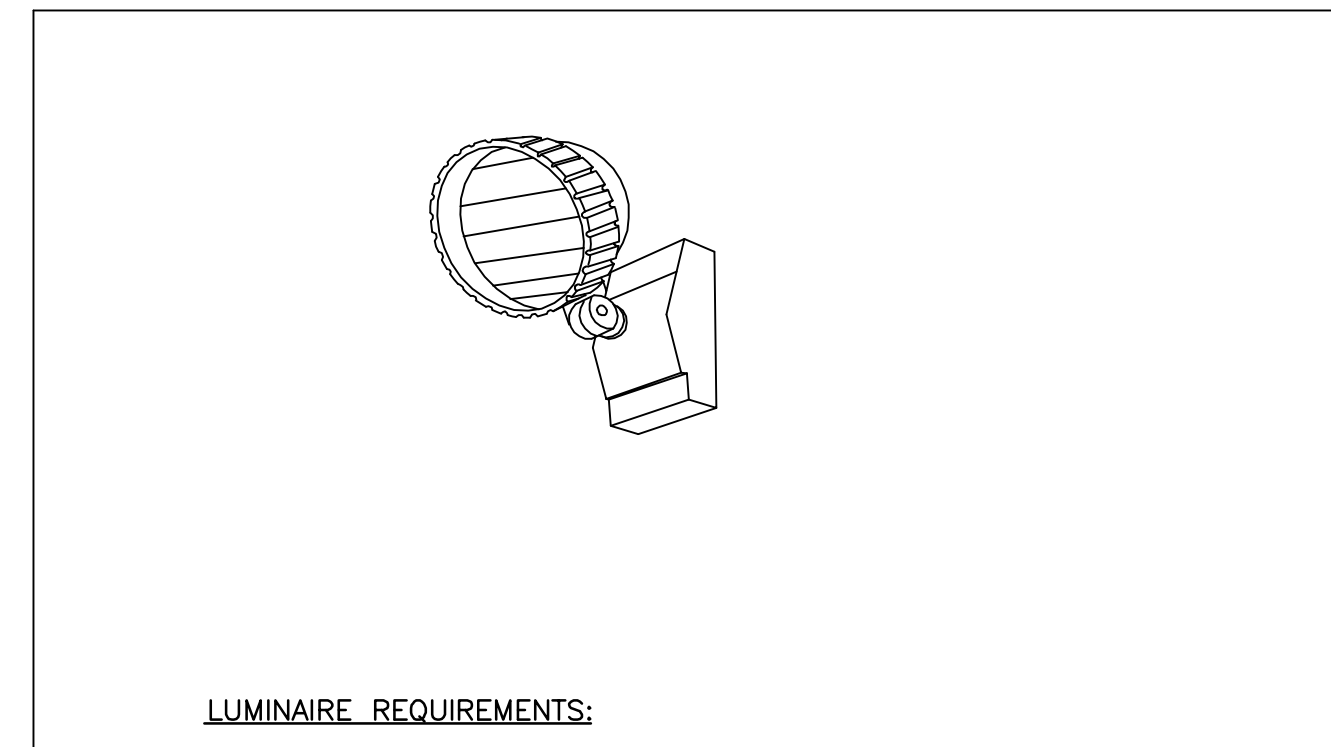
EXTERIOR COMMERCIAL WALL MOUNT H.I.D.

SKETCH DATE NOVEMBER 1995 | STYLE NL-25



- LUMINAIRE REQUIREMENTS:**
- SEALED 56 WATT BATTERY, SPECIFICALLY DESIGNED FOR EMERGENCY LIGHTING. SOLID STATE FULLY AUTOMATIC - TWO RATE HIGH/LOW CHANGER FOR SEALED LEAD CALCIUM BATTERIES.
 - NONMETAL FIBERGLASS REINFORCED THERMOPLASTIC HOUSING.
 - TEST SWITCH.
 - "AC ON" PILOT LIGHT.
 - AUTOMATIC OVERLOAD PROTECTION - FUSE OR CIRCUIT BREAKER.
 - HEADS SHALL BE FULLY ADJUSTABLE VERTICALLY AND HORIZONTALLY.
 - SEALED 18 WATT HALOGEN LAMPS.
 - 120V INPUT VOLTAGE, 6V DC OUTPUT VOLTAGE.
 - VOLTMETER
 - HARD WIRE TO CIRCUIT.
 - LOW VOLTAGE, DEEP DISCHARGE DISCONNECT.
 - PROVIDE INTERNAL GREEN GROUNDING SCREW.
 - SUITABLE FOR NEMA 4 ENVIRONMENT.

DOUBLE LAMP, EMERGENCY LIGHTING FIXTURE



- LUMINAIRE REQUIREMENTS:**
- LAMP AND FINISHES SHALL BE COMPATIBLE WITH EMERGENCY LIGHTING UNIT WITH WHICH USED.
 - SUITABLE FOR USE IN NEMA 4 ENVIRONMENT.
 - SEALED 18 WATT HALOGEN LAMP.

SINGLE LAMP, EMERGENCY LIGHTING FIXTURE



DATE	APPR
DESCRIPTION	
SYN	
NAVAL FACILITIES ENGINEERING COMMAND	
SEAL	
ACTIVITY - SATISFACTORY TO	
DATE	APPROVED
FOR EFD FOR COMMANDER NAVFAC	
DATE	A/E EFD
DESIGN	
DRAWN	
REVIEW	
QC	
CHEF ARCH/ ENGR.	
PROJECT MANAGER	
FIRE PROTECTION	
BRANCH MANAGER	
DESIGN DIRECTOR	
DEPARTMENT OF THE NAVY	
NAVAL FACILITIES ENGINEERING COMMAND	
BOX MAGAZINE - TYPE M	
LIGHTING DETAILS	
CODE ID. NO. 80091	SIZE D
SCALE:	
EFD NO.	
STA. PROJ. NO.	
SPEC. NO.	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
10400027	
SHEET 27 OF 27	
E-701	
DRAWING REVISION MAY 2000	