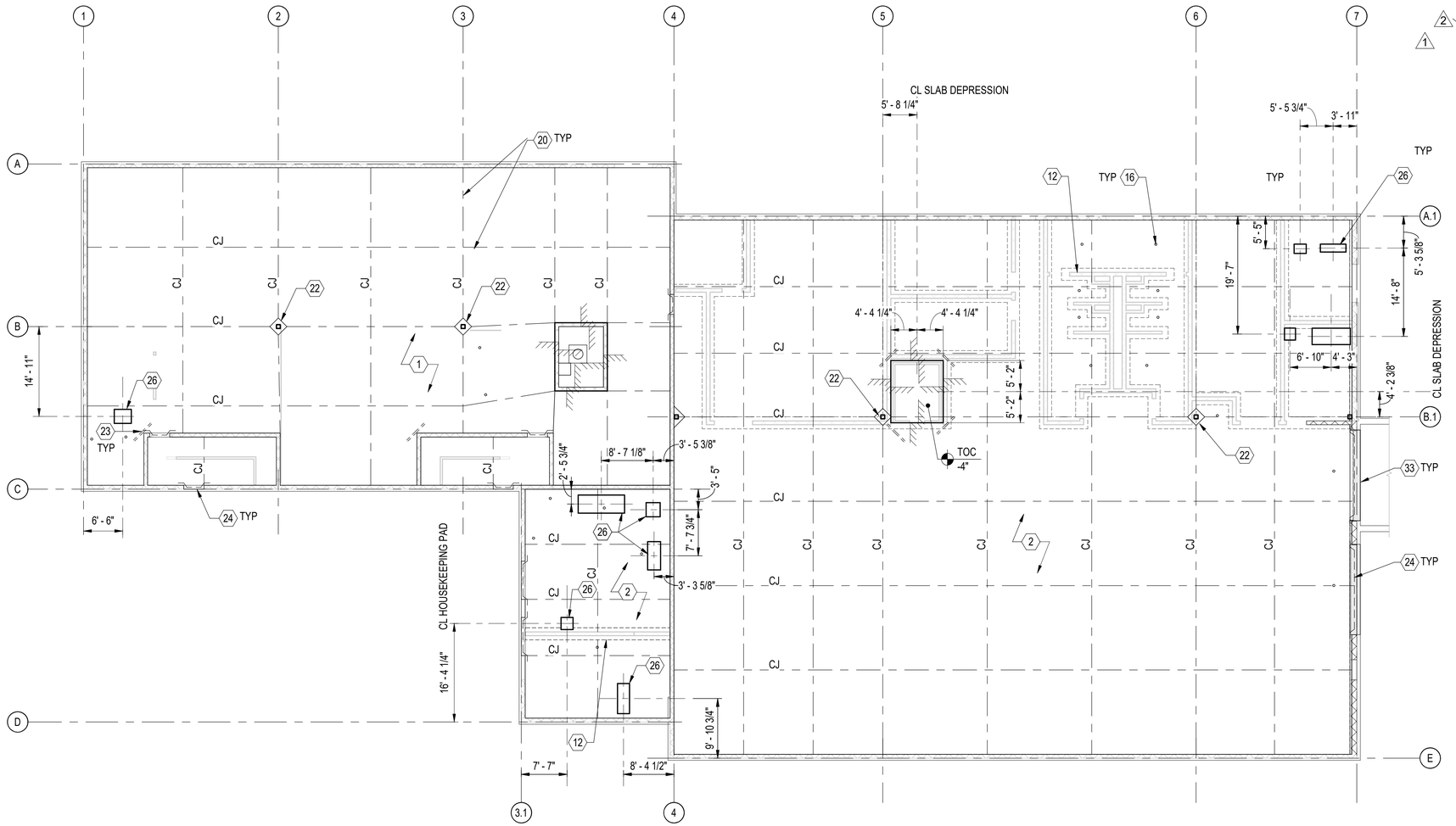


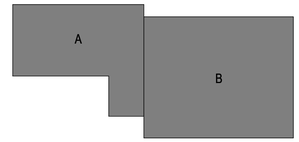
SHEET NOTES

1. REFER TO SHEETS S-001 AND S-002 FOR GENERAL NOTES, ABBREVIATIONS, PLAN LEGEND AND CALLOUT IDENTIFICATION.
2. REFER TO S-501 THRU S-508 FOR TYPICAL DETAILS.
3. TOP OF SLAB IS 100'-0" UNLESS OTHERWISE NOTED BY [-XX] ON PLAN.
4. TOP OF PILE CAP IS 98'-6" UNLESS OTHERWISE NOTED.
5. TOP OF GRADE BEAM IS 98'-6" UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

1	6" CONCRETE SLAB-ON-GRADE REINFORCED WITH 6x6-W4XW4 WELDED WIRE REINFORCEMENT OVER 20 MIL VAPOR BARRIER AND 12" DEPTH OF POROUS FILL. REFER TO PLUMBING DRAWINGS FOR VAPOR MITIGATION INFO.
2	8" CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 BARS AT 10" OC EACH WAY, OVER 20 MIL VAPOR BARRIER OVER 12" POROUS FILL. REFER TO PLUMBING DRAWINGS FOR VAPOR MITIGATION INFO.
12	NON-LOAD BEARING CMU WALL OVER THICKENED SLAB. REFER TO ARCH DWG A-140 FOR WALL LOCATIONS. REFER TO TYPICAL DETAILS FOR THICKENED SLAB.
16	FLOOR DRAIN, SEE ARCHITECTURAL DRAWINGS
20	CONTROL JOINT, SEE DETAIL C5/S-501
22	TYPICAL COLUMN ISOLATION JOINT, SEE DETAIL C4/S-501
23	REENTRANT BAR AT 90° CORNERS, SEE DETAIL A3/S-501
24	REENTRANT BAR AT DOORWAYS CORNERS, SEE DETAIL B4/S-501
26	INTERIOR HOUSEKEEPING PAD, SEE DETAIL A2/S-502. LOCATIONS SHOWN ARE APPROXIMATE. COORDINATE EXACT PAD LOCATIONS WITH PURCHASED EQUIPMENT AND FINAL ROOM LAYOUT.
33	RECESSED CONCRETE SLAB. REFER TO ARCH DETAIL B4/A-521 FOR MORE INFO AND COORD WITH OVERHEAD DOOR MFR DETAILS.

KEY PLAN



PLAN NORTH

SYM	DESCRIPTION	DATE	APPR
2	VAPOR BARRIER THICKNESS	05/08/2023	
1	VAPOR MITIGATION REFERENCE	02/09/2023	

NAVFAC

COMMONWEALTH OF VIRGINIA
AUGUSTO L COLLOT
Lic. No. 055969
05/08/23
PROFESSIONAL ENGINEER
SEAL

MN+ BMcD JointVenture
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
Timothy Calohan, PE,
NOAA Senior Project Manager
SATISFACTORY TO DATE 04OCT2022

DES	ALC	DRW	MWR	CHK	JEW
PMDM					RS/RC
BRANCH MANAGER					NEK
CHIEF ENG/ARCH					EJA
FIRE PROTECTION					DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MID-ATLANTIC DCBL

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – MID-ATLANTIC
NAVAL STATION NORFOLK - NORFOLK, VA

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

NOAA OMAO SHIP & SUPPORT FACILITY RELOCATION

ADMIN / WAREHOUSE - SLAB PLAN - OVERALL - FIRST FLOOR

SCALE: AS NOTED
EPROJECT NO.: 1562331
CONSTR. CONTR. NO.: N4008523R2527
NAVFAC DRAWING NO.: 12874054
SHEET 178 OF 504

S-143

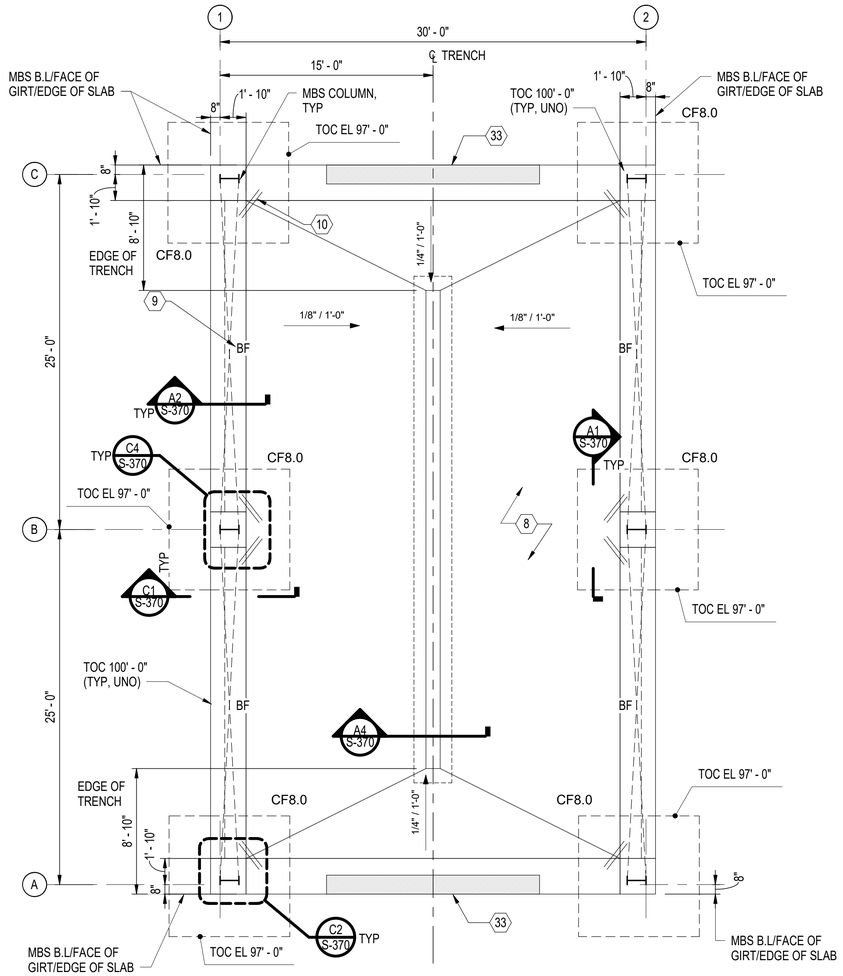
DRAWFORM REVISION: 25 AUGUST 2020

A1 ADMIN / WAREHOUSE SLAB PLAN - OVERALL

3/32" = 1'-0"

PLAN NORTH

0' 4' 8' 16' 32'

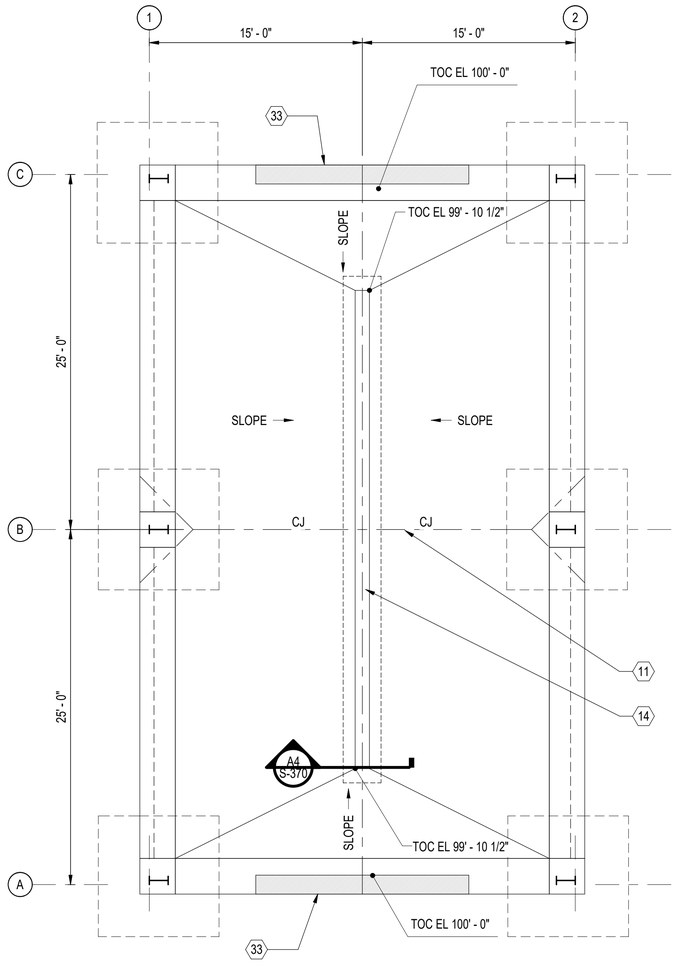


A1 FOUNDATION AND SLAB PLAN

3/16" = 1'-0"

PLAN NORTH

0' 4' 8' 12'



A3 SLAB JOINT PLAN

3/16" = 1'-0"

PLAN NORTH

0' 4' 8' 12'

SHEET NOTES

1. REFER TO SHEETS S-001 AND S-002 FOR GENERAL NOTES, ABBREVIATIONS, PLAN LEGEND AND CALLOUT IDENTIFICATION.
2. FOUNDATIONS HAVE BEEN DESIGNED FOR PRELIMINARY REACTIONS. FINAL COLUMN REACTIONS MUST BE PROVIDED BY THE MBS MANUFACTURER AND REVIEWED BY STRUCTURAL ENGINEER OF RECORD PRIOR TO TO POURING OF THE FOUNDATIONS TO ENSURE THAT THE FOUNDATIONS SHOWN ARE ADEQUATE.
3. ALL FOOTINGS ARE CENTERED UNDER THE PEDESTAL UNLESS OTHERWISE NOTED.
4. REFER TO S-501 THRU S-502 FOR TYPICAL FOUNDATION AND SLAB DETAILS AND SECTIONS.
5. FOUNDATIONS HAVE BEEN DESIGNED FOR THE ASSUMED REACTIONS BELOW USING LRFD LOAD COMBINATIONS. BRACED BAYS ASSUMED BETWEEN GRIDLINES B AND C ON EITHER SIDE OF BUILDING. MOMENT FRAMES ASSUMED BETWEEN GRIDLINES 1 AND 2.
   - A. GRAVITY LOAD = 30K
   - B. MAX UPLIFT = 5K
   - C. SHEAR = 15K

SHEET KEYNOTES

1

8 12" CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 BARS AT 12" OC EACH WAY OVER 20 MIL VAPOR BARRIER AND 12" DEPTH OF POROUS FILL.

9 MBS BRACE FRAME LOCATION. IF ALTERNATE LOCATIONS OR ADDITIONAL BRACED FRAMES ARE REQUIRED, CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.

10 ADD (2) #4 X 4'-0" LONG BARS CENTERED IN SLAB AT ALL RE-ENTRANT CORNERS.

11 DOWELED SAW JOINTS. REFER TO TYPICAL CONCRETE DETAILS

14 TRENCH DRAIN

33 RECESSED CONCRETE SLAB. REFER TO ARCH DETAIL B4/A-521 FOR MORE INFO AND COORD WITH OVERHEAD DOOR MFR DETAILS.

COLUMN FOOTING SCHEDULE

MARK	DIMENSIONS			REINFORCING
	WIDTH	LENGTH	DEPTH	
CF8.0	8' - 6"	8' - 6"	2' - 0"	(10) #6 EACH WAY, TOP & BOTTOM

COLUMN FOOTING SCHEDULE NOTES:

1. FOR FOOTING SIZE AND REINFORCEMENT, SEE "COLUMN FOOTING SCHEDULE" THIS SHEET.
2. FOOTINGS HAVE BEEN DESIGNED FOR ESTIMATED MBS COLUMN REACTIONS. ANCHOR BOLTS SHALL NOT BE FABRICATED AND FOOTINGS SHALL NOT BE CONSTRUCTED UNTIL THE MBS COLUMN REACTIONS HAVE BEEN REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD.
3. MBS SUPPLIER SHALL SUBMIT FINAL ANCHOR BOLT DIMENSONS, LAYOUTS, AND ORIENTATIONS TO THE STRUCTURAL ENGINEER OF RECORD.
4. ALL ANCHOR BOLT DIMENSIONS, LAYOUTS, AND ORIENTATIONS MUST BE VERIFIED AND COORDINATED WITH THE FINAL MBS DRAWINGS PRIOR TO FABRICATION AND INSTALLATION.

COLUMN PEDESTAL SCHEDULE

MARK	DIMENSIONS		REINFORCEMENT	
	LENGTH	WIDTH	VERTICAL	TIES
PED	3' - 0"	3' - 0"	(8) #8 BARS	#4 @ 12" OC

ALL WORK THIS SHEET IS BID OPTION - BOAT REPAIR BUILDING

SYM	DESCRIPTION	DATE	APPR
1	VAPOR BARRIER THICKNESS	05/08/2023	

NAVFAC

COMMONWEALTH OF VIRGINIA
AUGUSTO L COLLOT
Lic. No. 055969
05/08/23
PROFESSIONAL ENGINEER
SEAL

MN+ BMcD JointVenture
A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
Timothy Calohan, PE,
NOAA Senior Project Manager

SATISFACTORY TO DATE	04OCT2022		
DES	ALC	DRW MWR	CHK JEW
PM/DM			RS/RC
BRANCH MANAGER			NEK
CHIEF ENG/ARCH			EJA
FIRE PROTECTION			DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT DCBL

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
NAVAL STATION NORFOLK - NORFOLK, VA

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

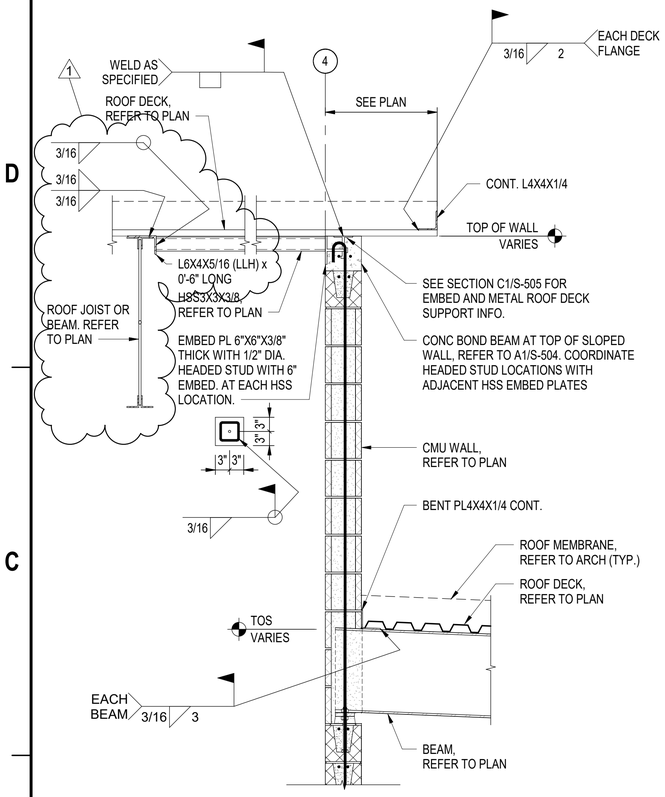
NOAA OMAO SHIP & SUPPORT FACILITY RELOCATION

BOAT REPAIR - FOUNDATION AND SLAB PLAN

SCALE:	AS NOTED
EPROJECT NO.:	1562331
CONSTR. CONTR. NO.	N4008523R2527
NAVFAC DRAWING NO.	12874059
SHEET	183 OF 504

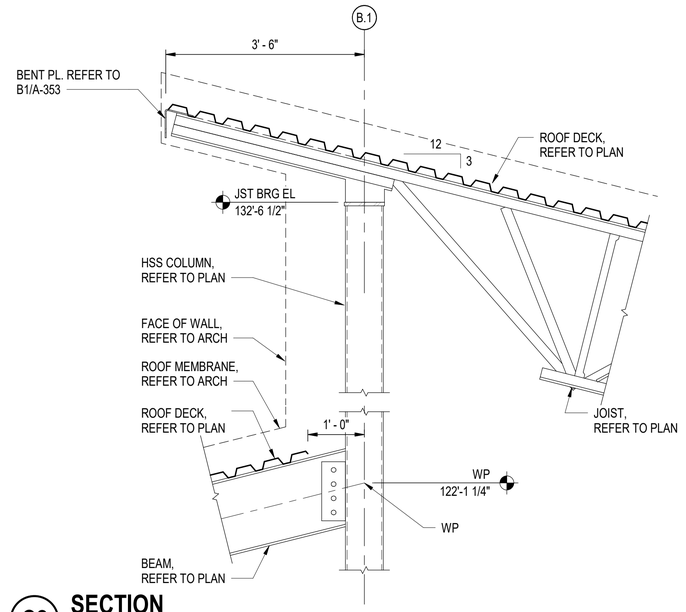
S-171

DRAWFORM REVISION: 25 AUGUST 2020



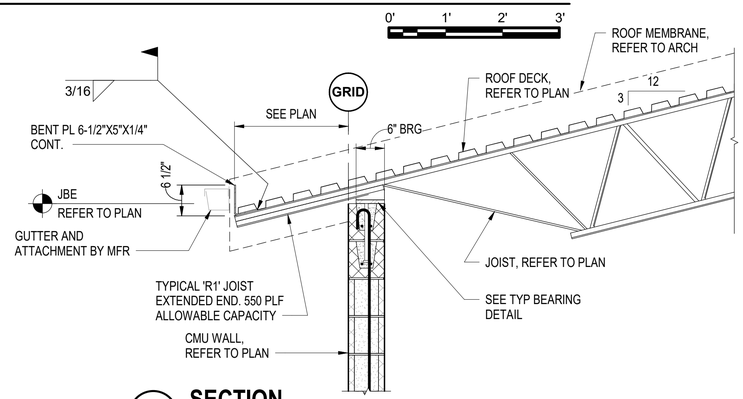
B1 SECTION - WAREHOUSE HIGH ROOF

3/4" = 1'-0"



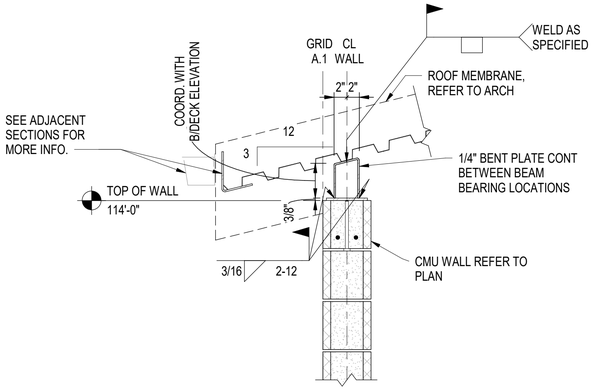
C2 SECTION

3/4" = 1'-0"



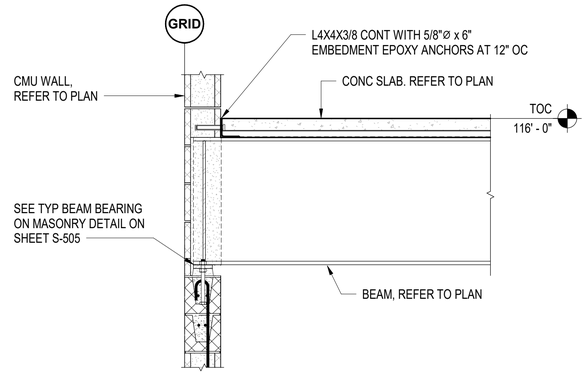
B3 SECTION

3/4" = 1'-0"



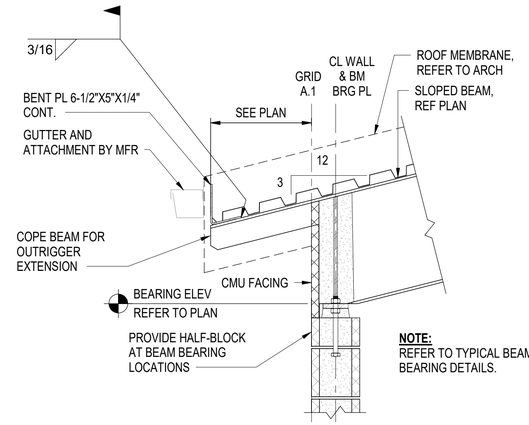
C4 SECTION

1" = 1'-0"



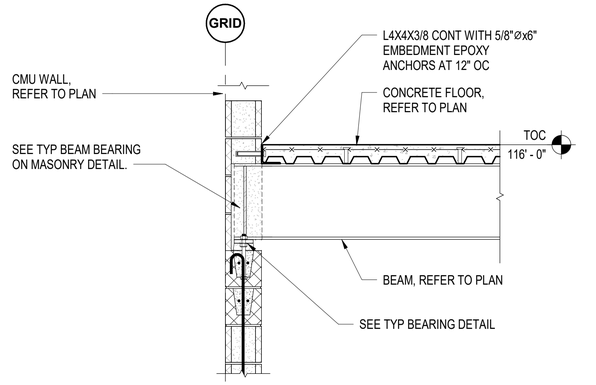
B4 SECTION

3/4" = 1'-0"



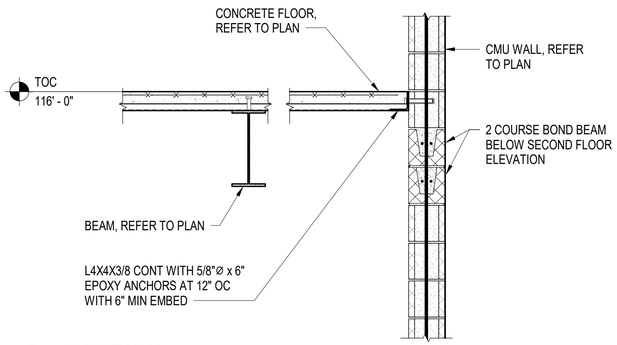
A1 SECTION

1" = 1'-0"



A3 SECTION

3/4" = 1'-0"



A4 SECTION

3/4" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
1	WALL BRACE TO ROOF JOIST OR BEAM CONNECTION	05/08/2023	

NAVFAC

COMMONWEALTH OF VIRGINIA
AUGUSTO L COLLOT
Lic. No. 055969
05/08/23
PROFESSIONAL ENGINEER
SEAL

MN+ BMCD JointVenture
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 5/25/2023

ACTIVITY
Timothy Calohan, PE,
NOAA Senior Project Manager

SATISFACTORY TO DATE	04OCT2022		
DES	ALC	DRW MWR	CHK JEW
PMDM			RS/RC
BRANCH MANAGER			NEK
CHIEF ENG/ARCH			EJA
FIRE PROTECTION			DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT DCBL

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
NAVAL STATION NORFOLK - NORFOLK, VA

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

NOAA OMAO SHIP & SUPPORT FACILITY RELOCATION

ADMIN / WAREHOUSE - FRAMING SECTIONS

SCALE:	AS NOTED
EPROJECT NO.:	1562331
CONSTR. CONTR. NO.	N4008523R2527
NAVFAC DRAWING NO.	12874064
SHEET	188 OF 504

S-351

DRAWFORM REVISION: 25 AUGUST 2020

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	CONNECTIONS				GPM	GPF	MOUNTING HEIGHT (LOWEST FLOOD RIM)	REMARKS
		COLD WATER	HOT WATER	VENT	WASTE				
WC-1	WATER CLOSET, ABA	1"	-	2"	4"	-	1.1	17"	WALL MOUNTED
L-1	LAVATORY, WALL HUNG, ABA	1/2"	1/2"	1 1/2"	2"	0.35	-	34"	WALL MOUNTED, SENSOR FAUCET, NOTE 2
S-1	SINK, SINGLE BOWL (25x18)	1/2"	1/2"	1 1/2"	2"	1.5	-	UNDERMOUNT	STAINLESS STEEL, NOTE 4
S-2	SINK, SINGLE BOWL (18x18)	1/2"	1/2"	1 1/2"	2"	1.5	-	UNDERMOUNT	STAINLESS STEEL
S-3	SINK, DOUBLE BOWL UTILITY	1/2"	1/2"	1 1/2"	2"	1.5	-	34"	FLOOR MOUNTED
S-4	SINK, SINGLE BOWL UTILITY - BOAT REPAIR	1/2"	1/2"	1 1/2"	2"	1.5		34"	FLOOR MOUNTED, MOLDED STONE
SH-1	SHOWER	1/2"	1/2"	1 1/2"	3"	1.5	-	FLOOR	NOTE 3
SH-2	SHOWER, ABA	1/2"	1/2"	1 1/2"	3"	1.5	-	FLOOR	NOTE 3
MR-1	MOP RECEPTOR	1/2"	1/2"	1 1/2"	3"	2.5	-	FLOOR	FLOOR MOUNTED, MOLDED STONE
EWC-1	ELECTRIC WATER COOLER	1/2"	-	2"	2"	0.13	-	ABA	BI-LEVEL, EQUIPPED W/ BOTTLE FILLER
ESEW-1	EMERGENCY SHOWER/EYEWASH	1 1/4"	1 1/4"	1 1/2"	2"	20	-	-	WALL MOUNTED; NOTE 5
WH	WALL HYDRANT	3/4"	-	-	-	-	-	-	FREEZE PROOF IN LOCKABLE RECESSED WALL BOX
HB	HOSE BIBB	3/4"	-	-	-	-	-	-	LOCATED IN MECHANICAL ROOMS AND BOAT REPAIR
HB-D	HOSE BIBB - DOCK	3/4"	-	-	-	-	-	-	LOCATED AT FLOATING PIER
HS	HOSE STATION	1/2"	1/2"	-	-	-	-	-	
WOB	WATER OUTLET BOX	1/2"	-	-	-	-	-	-	

NOTES:
1. ALL FIXTURES INDICATED AS ARCHITECTURAL BARRIERS ACT (ABA) SHALL COMPLY AND BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE USFAS AND CABO/ANSI A117.1.
2. PROVIDE WITH ASSE 1070 MIXING VALVE.
3. SHOWER MIXER SHALL BE ASSE 1016 CERTIFIED.
4. EQUIPPED WITH UL 430 WASTE DISPOSAL.
5. PROVIDE WITH THERMOSTATIC MIXING VALVE ASSE 1071, DUST COVER, EMERGENCY ALARM SYSTEM AND SCALD PROTECTION.

DOMESTIC WATER HEATER SCHEDULE (DWH) - ADMIN BLDG

MARK	TYPE	E.W.T. (°F)	L.W.T. (°F)	INPUT (MBH)	TURN ON (GPM)	NATURAL GAS (MBH)	VOLTS	PHASE	LOCATION (ROOM / #)	REMARKS
DWH-1	NATURAL GAS	39	120	240	0.5	240	120	1	MECH / 138	PROVIDED WITH INTERNAL HWRP; NOTE 1
DWH-2	NATURAL GAS	39	120	240	0.5	240	120	1	MECH / 138	PROVIDED WITH INTERNAL HWRP; NOTE 1
DWH-3	NATURAL GAS	39	120	240	0.5	240	120	1	MECH / 138	PROVIDED WITH INTERNAL HWRP; NOTE 1

NOTES:
1. THE DOMESTIC WATER HEATER CONTROLS THE 2 SPEED INTERNAL HWRP, "LOW" OPERATION AT 0.5 GPM AND "HIGH" IS 4 GPM @ 24' HEAD.

PUMP SCHEDULE

MARK	PUMP DESCRIPTION	TYPE	CAPACITY (GPM)	TOTAL HEAD (FT WC)	MIN. MOTOR (HP)	VOLTAGE / PHASE	LOCATION (ROOM / #)	REMARKS
SP-1	ELEVATOR SUMP PUMP	SUMP	50	20	1	120/1	ELEV / 120	NOTE 1

NOTES:
1. SUMP PUMP TO BE EQUIPPED WITH HIGH LEVEL ALARMS AND OIL SENSOR.

AIR COMPRESSOR SCHEDULE

MARK	DESCRIPTION	TYPE	MAX. FLOW OUTPUT (ACFM)	PRESSURE OUTPUT (PSI)	MIN. MOTOR (HP)	VOLTAGE/ PHASE	AIR RECEIVER (GAL)	LOCATION (ROOM / #)	NOTES
AC-1	AIR COMPRESSOR	RECIPROCATING - TANK MOUNTED	135	90	5	480/3	60	MECH/138	
AC-2	AIR COMPRESSOR	RECIPROCATING - TANK MOUNTED	5.3	90	1.6	120/1	30	BOAT REPAIR	NOTE 1

NOTES:
1. RECEPTACLE PROVIDED BY DIVISION 26.

BACKFLOW PREVENTER SCHEDULE

MARK	SIZE	MATERIAL	FLOW (GPM)	PRESSURE DROP (GPM)	LOCATION (ROOM / #)	REMARKS
RPZ-1	2 1/2"	EPOXY COATED	***	10	PIER	TYP FOR FOUR CONNECTIONS
BFP-1	2 1/2"	BRONZE BODY	75	10	MECH / 138	
BFP-2	1"	BRONZE BODY	3	10	BOAT REPAIR	
BFP-3	1"	BRONZE BODY	3	10	MECH / 138	MECH MAKE-UP

BALANCING VALVE SCHEDULE (BLV)

MARK	DESCRIPTION	FLOW RATE (GPM)	PRESSURE DROP (MAX PSI)	LINE SIZE	LOCATION (ROOM / #)	REMARKS
BLV-1	CALIBRATED BALANCING VALVE	2.0	2.7	3/4"	OFFICE / 102	-
BLV-2	CALIBRATED BALANCING VALVE	2.0	2.7	3/4"	DIVE / 132	-

DRAIN AND CLEAN OUT SCHEDULE

MARK	DRAIN TYPE	DRAIN SIZE	STRAINER	TRAP PRIMER CONNECTION	REMARKS
FD-1	FLOOR DRAIN - GENERAL DUTY	3"	6" ROUND	YES	PRESSURE ACTUATED TRAP PRIMER VALVE
FD-2	FLOOR DRAIN - HEAVY DUTY	4"	6" ROUND	YES	ELECTRONIC TRAP PRIMER MANIFOLD
FD-3	FLOOR DRAIN - HEAVY DUTY	3"	6" ROUND	YES	ELECTRONIC TRAP PRIMER MANIFOLD
FD-4	FLOOR DRAIN - HEAVY DUTY	3"	6" ROUND	YES	ELECTRONIC TRAP PRIMER MANIFOLD
TD-1	TRENCH DRAIN - HEAVY DUTY	3"	TRAFFIC RATED	NO	BOAT REPAIR BUILDING
FCO	FLOOR CLEAN OUT	FULL SIZE	ROUND	-	-
WCO	WALL CLEAN OUT	FULL SIZE	ROUND	-	-

TRAP PRIMER MANIFOLD SCHEDULE (TPM)

MARK	DESCRIPTION	COLD WATER LINE SIZE	NUMBER OF DRAINS SERVING	LOCATION (BLDG / ROOM)	VOLTAGE	REMARKS
TPM-1	ELECTRONIC TRAP PRIMER MANIFOLD	3/4"	4	MECH / 138	24	-
TPM-2	ELECTRONIC TRAP PRIMER MANIFOLD	3/4"	1	JAN / 223	24	-
TPM-3	ELECTRONIC TRAP PRIMER MANIFOLD	3/4"	2	DIVE / 132	24	-
TPM-4	ELECTRONIC TRAP PRIMER MANIFOLD	3/4"	1	SHIP STOR / 123	24	-
TPM-5	ELECTRONIC TRAP PRIMER MANIFOLD	3/4"	3	TELECOM / 110	24	-
TPM-6	ELECTRONIC TRAP PRIMER MANIFOLD	3/4"	2	SHIPPING / 135	24	-
TPM-7	ELECTRONIC TRAP PRIMER MANIFOLD	3/4"	2	TELECOM/216	24	-
TPM-8	ELECTRONIC TRAP PRIMER MANIFOLD	3/4"	1	BOAT REPAIR	24	-
TPM-9	PRESSURE ACTIVATED TRAP PRIMER	3/4"	4	ADMIN 130/131	-	-
TPM-10	PRESSURE ACTIVATED TRAP PRIMER	3/4"	1	MEN / 117	-	-
TPM-11	PRESSURE ACTIVATED TRAP PRIMER	3/4"	1	WMN 116	-	-
TPM-12	PRESSURE ACTIVATED TRAP PRIMER	3/4"	1	MEN / 225	-	-
TPM-13	PRESSURE ACTIVATED TRAP PRIMER	3/4"	1	WMN 224	-	-
TPM-14	ELECTRONIC TRAP PRIMER MANIFOLD	3/4"	1	SHIP STOR / 123	24	-

VAPOR MITIGATION FAN SCHEDULE

MARK	DESIGN STATIC PRESSURE (IN. WC.)	DESIGN AIR FLOW (CFM)	PIPE CONNECTION (IN.)	VOLTAGE/ PHASE	MOTOR	FAN LOCATION (ROOM / #)	NOTES
VMF-1	-1.0	75	6"	120/1	ECM - SPEED CONTROLABLE	EEB STOR/125	NOTE 1
VMF-2	-1.0	75	6"	120/1	ECM - SPEED CONTROLABLE	OPERATION/133	NOTE 1
VMF-3	-1.0	75	6"	120/1	ECM - SPEED CONTROLABLE	CORR/210A	NOTE 1

NOTES:
1. FAN SECTIONS ARE TO BE VERIFIED AS ADEQUATE AFTER FINAL TESTING HAS OCCURED.

SYM	DESCRIPTION	DATE	APPR
1	UPDATED PLUMBING SCHEDULE	05/08/2023	

NAVFAC

COMMONWEALTH OF VIRGINIA
RYAN MICHAEL BROWNING
Lic. No. 0402055094
05/08/2023
PROFESSIONAL ENGINEER
SEAL

MN+ BMcD JointVenture
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 5/25/2023

ACTIVITY
Timothy Calohan, PE,
NOAA Senior Project Manager

SATISFACTORY TO DATE 04OCT2022

DES	CMO	DRW	CMO	CHK	CWS

PM/DM	RS/RC
BRANCH MANAGER	ALG
CHIEF ENG/ARCH	EJA
FIRE PROTECTION	DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT DCBL
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
NAVAL STATION NORFOLK - NORFOLK, VA
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
NOAA OMAO SHIP & SUPPORT FACILITY RELOCATION
ADMIN / WAREHOUSE - SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1562331
CONSTR. CONTR. NO. N4008523R2527
NAVFAC DRAWING NO. 12874193
SHEET 317 OF 504

P-641

DRAWFORM REVISION: 25 AUGUST 2020