SITE PLAN

SCALE: 1" = 50'

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REVISION NO.	DESCRIPTION	DATE	BY:
0	ISSUE FOR CONSTRUCTION	2/15/23	RAH

ALABAMA LICENSED No. 25083 PROFESSIONAL 02/15/2023 ENGINEER ROBERT A. HARVEY

CITY OF MOBILE
MOBILE, ALABAMA

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2970 COTTAGE HILL RD., STE. 190
MOBILE, ALABAMA 36606
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CRUISE TERMINAL
150 TON MOORING PILE

SITE PLAN
C.O.M. PROJECT NO. CT-013-23

SCALE:	PLOT SCALE:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE :	JOB NO. :	DRAWING NO.	REVISION NO. :
NOTED	1:1	RWA	RAH	RAH	FEBRUARY 2023	23-1101-0028	C101	0

BORING MB-1

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)
0.0			
		Loose, moist, dark brown, fine to coarse grained, SILTY SAND with GRAVEL (SM)	0.0
		Medium dense, wet, dark brown, fine to medium grained, with wood, SILTY SAND with GRAVEL (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=57.0 %#200=17.6	1.5
	0.0		3.0
5.0		Very loose, wet, dark brown, fine to coarse grained, POORLY GRADED GRAVEL with SILT and SAND (GP-GM)	4.5
		Loose, most likely fall in	6.0
		Loose, most likely fall in	
	-5.0		
		Very loose, most likely fall in	8.5
10.0			
	-10.0		
15.0		Very loose, wet, dark brown, fine and coarse grained, POORLY GRADED GRAVEL with SILT and SAND (GP-GM, A-1-a(0)), LL=NP PL=NP PI=NP NMC=18.9 %#200=10.9	13.5
	-15.0		
20.0		Loose, wet, gray and brown, fine grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=16.9 %#200=4.7	18.5
	-20.0		
25.0		Loose, dark brown and gray, fine to medium grained	23.5
	-25.0		
30.0		Medium dense, gray and light gray	28.5

BORING MB-1 CONTINUED

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)
30.0			
	-30.0		
35.0		Medium dense, wet, yellowish brown and brown, fine grained, POORLY GRADED SAND with GRAVEL (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=28.7 %#200=3.4	33.5
	-35.0		
40.0		Loose, with trace shells	38.5
	-40.0		
45.0		Medium dense, wet, pale brown, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=22.2 %#200=2.1	43.5
	-45.0		
50.0		Loose, wet, pale brown, fine to medium grained, POORLY GRADED GRAVEL with SAND (GP, A-1-a(0)), LL=NP PL=NP PI=NP NMC=11.7 %#200=3.1	48.5
	-50.0		
55.0		Loose, light brown	53.5
	-55.0		
60.0		Medium dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND with SILT	58.5

BORING MB-1 CONTINUED

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)
60.0		(SP-SM)	
	-60.0		
65.0		Medium dense, wet, reddish brown and brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=19.3 %#200=8.6	63.5
	-65.0		
70.0		Very dense, No Recovery	68.5
	-70.0		
75.0		Very dense, light brown	73.5
	-75.0		
80.0		Very dense	78.5
	-80.0		
85.0		Medium dense, wet, medium to fine grained, with trace gravel	83.5
	-85.0		
90.0		Firm, moist, dark gray, FAT CLAY (CH) NOTE: Sample rods slipped through hoisting ring and	88.5

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Robert A. Harvey

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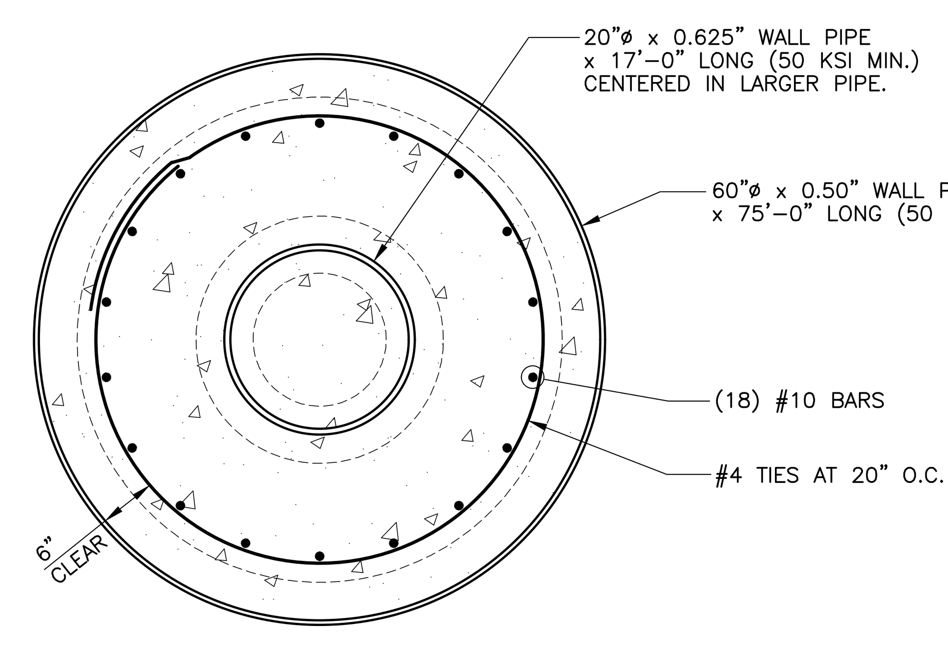
CRUISE TERMINAL
150 TON MOORING PILE

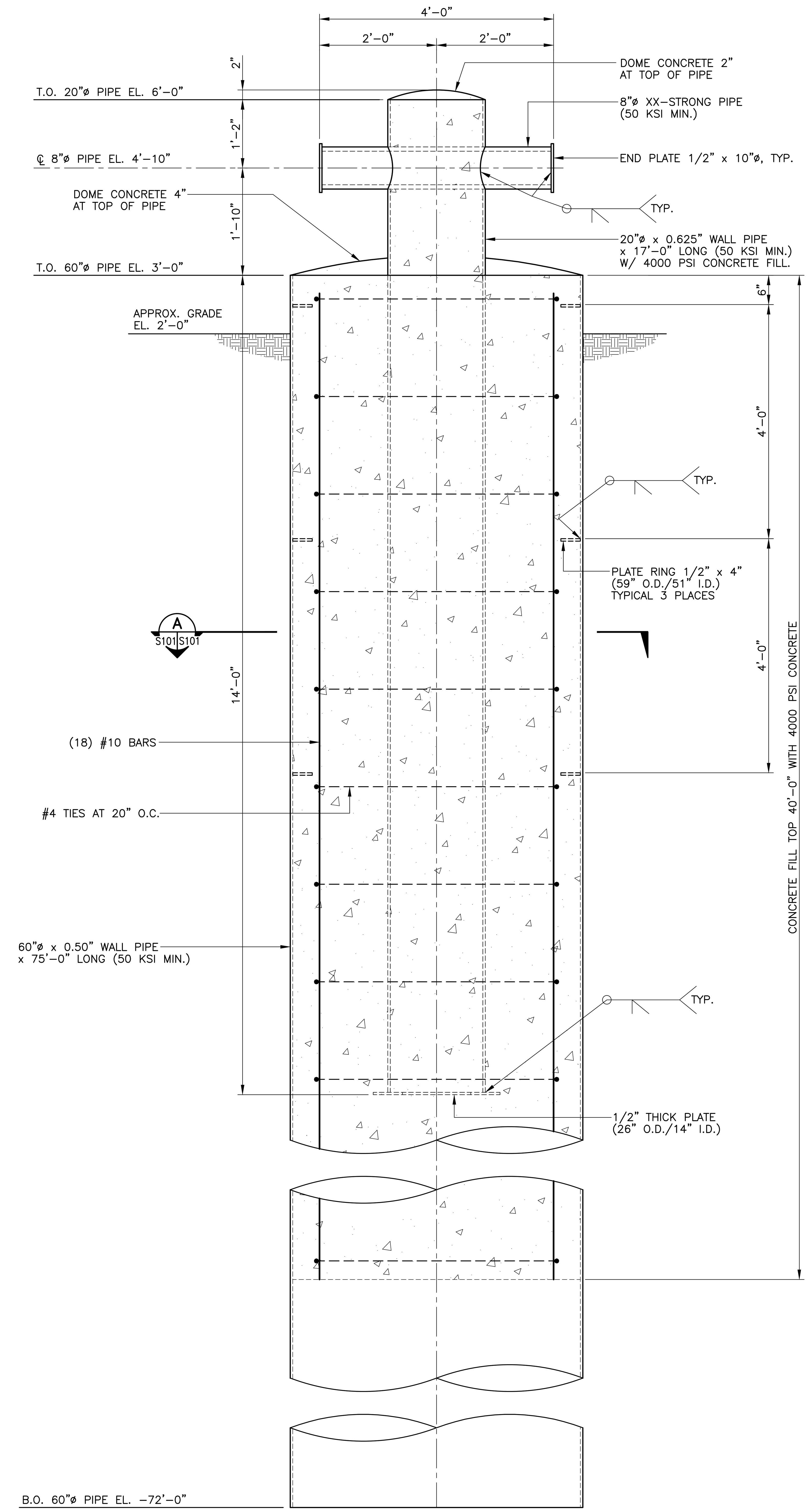
BORING MB-1 LOG
C.O.M. PROJECT NO. CT-013-23

1. GENERAL REQUIREMENTS:
   1.1. THESE STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. ALL CONSTRUCTION SHALL CONFORM TO THE EDITION OF THE INTERNATIONAL BUILDING CODE REFERENCED. REFERENCE TO OTHER SPECIFICATIONS OR CODES SHALL MEAN THE VERSION INDICATED IN THE INTERNATIONAL BUILDING CODE.
   1.2. STRUCTURAL MEMBERS SHALL NOT BE CUT, NOTCHED, CHANGED OR MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
   1.3. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON THE DRAWINGS. SEND A WRITTEN REQUEST FOR INFORMATION TO THE STRUCTURAL ENGINEER FOR DIMENSIONS NOT PROVIDED.
   1.4. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
2. EXISTING CONDITIONS:
   2.1. EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OR CONSTRUCTION AND AS THEY ARE UNCOVERED DURING CONSTRUCTION. IN THE EVENT EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY.
   2.2. DIMENSIONS RELATIVE TO AN EXISTING STRUCTURE ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO MATERIALS PURCHASE, FABRICATION, OR CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF DISCREPANCIES.
   2.3. FIELD DIMENSIONS VERIFIED BY THE CONTRACTOR SHALL BE SHOWN ON THE SUBMITTED SHOP DRAWINGS.
   2.4. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE AND UNDAMAGED CONDITION DURING THE PROCESS OF DEMOLITION AND NEW CONSTRUCTION.
   2.5. THE MOORING PILE LOCATION SHALL BE INVESTIGATED PRIOR TO INSTALLATION OF THE PILE IN ORDER TO ASSESS ANY UNDERGROUND OBSTRUCTIONS THAT MAY HINDER PILE INSTALLATION. CONTRACTOR SHALL CLEAR ANY OBSTRUCTIONS AS REQUIRED FOR PILE INSTALLATION AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
3. DESIGN CRITERIA:
   3.1. GENERAL BUILDING CODE:
      3.1.1. INTERNATIONAL BUILDING CODE, IBC 2012 EDITION. ALL CODES BELOW ARE THE EDITION REFERENCED IN THE IBC.
   3.2. DESIGN LOAD CRITERIA:
      3.2.1. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7.
   3.3. CONCRETE:
      3.3.1. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318.
   3.4. STRUCTURAL STEEL:
      3.4.1. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360.
4. DESIGN LOADS:
   4.1. DESIGN DEAD LOAD IS ACTUAL WEIGHT OF THE STRUCTURE. ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.
   4.2. LIVE LOADS:
      SHIP MOORING LOAD 150 TONS
5. SHOP DRAWINGS AND SUBMITTALS:
   5.1. THE USE OR REPRODUCTION OF THE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS IS NOT PERMITTED.
   5.2. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
   5.3. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE REVIEWED AND "APPROVED" BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES.
   5.4. ELECTRONIC SHOP DRAWING SUBMITTALS: SUBMIT ALL ELECTRONIC SHOP DRAWINGS IN PDF FORMAT. REVIEWED SHOP DRAWINGS WILL BE RETURNED IN PDF FORMAT. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED.
   5.5. SHOP DRAWINGS: SEE THE RELATED MATERIAL SECTION FOR THE REQUIRED SUBMITTALS AND SHOP DRAWINGS.
6. DEMOLITION:
   6.1. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION, AND AS INDICATED. THIS SHALL INCLUDE REMOVAL OF RIP-RAP, TIMBERS, MISCELLANEOUS CONCRETE, ETC. THAT MAY BE PRESENT AT THE PILE INSTALLATION LOCATION.
7. DRIVEN STEEL PILES:
   7.1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN GOOD OPERATING CONDITION, ALL EQUIPMENT NECESSARY FOR THE PROPER AND EFFICIENT HANDLING AND INSTALLATION OF PILES. BARGES AND OTHER FLOATING EQUIPMENT SHALL BE OF AMPLE SIZE TO BE STABLE UNDER ALL WATER CONDITIONS DURING WHICH PILE DRIVING OPERATIONS WILL BE CARRIED ON, AND PERMIT PROPER HANDLING OF PILES AND PILE DRIVING EQUIPMENT WITHOUT EXCESSIVE MOVEMENT OR TILTING.
   7.2. PILING CONTRACTOR SHALL CUT OFF PILES CLEAN AND HORIZONTAL AT THE PILE ELEVATIONS SHOWN ON THE DRAWINGS.
   7.3. ALL STEEL PILE SPLICES SHALL BE MADE USING FULL PENETRATION BUTT WELDS.
   7.4. PILING CONTRACTOR SHALL COMPACT SOIL AROUND PILING TO THE BOTTOM OF CAP ELEVATIONS AS SHOWN ON THE DRAWINGS.
   7.5. PILES SHALL BE DRIVEN WITH SINGE-ACTING OR DOUBLE-ACTING STEAM OR AIR DRIVEN PILE HAMMERS OR VIBRATORY HAMMERS, MEETING THE REQUIREMENTS GIVEN HEREINAFTER. THE HAMMER SHALL BE MAINTAINED IN GOOD OPERATING CONDITION AND SHALL BE OPERATED AT THE FULL RATED SPEED GIVEN BY THE MANUFACTURER. THE CONTRACTOR SHALL FURNISH THE ENGINEER CATALOG DATA AND SPECIFICATIONS FOR ALL HAMMERS USED.
   7.6. STEAM OR AIR GENERATING EQUIPMENT SHALL BE MAINTAINED IN GOOD CONDITION AND SHALL BE CAPABLE OF PRODUCING SUFFICIENT PRESSURE AND QUANTITY NECESSARY FOR THE CONTINUOUS OPERATION OF THE PILE HAMMERS AT FULL RATED SPEED.
   7.7. JETTING SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
   7.8. A PROTECTING CAP OF APPROVED DESIGN SHALL BE EMPLOYED IN DRIVING TO PREVENT DAMAGE TO THE PILE TOPS.
   7.9. PILES SHALL BE CAREFULLY LOCATED AS SHOWN. PILINGS SHALL BE PLACED PLUMB WITH OUT-OF-PLUMBNESS NOT EXCEEDING 1/8 INCH PER FOOT OF LENGTH AND TRUE TO LINE. TEMPORARY TEMPLATES OR GUIDE STRUCTURES SHALL BE PROVIDED TO INSURE THAT THE PILINGS ARE PLACED AND DRIVEN TO THE CORRECT ALIGNMENT.
   7.10. DRIVING HAMMERS SHALL BE MAINTAINED IN PROPER ALIGNMENT DURING DRIVING OPERATIONS BY THE USE OF LEADS OR GUIDES ATTACHED TO THE HAMMER.
   7.11. A TOLERANCE OF 6 INCHES ABOVE THE INDICATED TOP ELEVATION WILL BE PERMITTED.
   7.12. PILINGS SHALL NOT BE DRIVEN WITHIN 100 FEET OF CONCRETE LESS THAN 7 DAYS OLD.
8. PROTECTIVE COATING:
   8.1. PROTECTIVE COATINGS SHALL BE APPLIED TO ALL STEEL PILING/BOLLARD MATERIAL BETWEEN ELEVATIONS +6.0' AND -7.0'.
   8.2. ALL SURFACES TO BE CLEANED TO AN SSPC-SP10 NEAR WHITE BLAST TO ACHIEVE A 3 TO 4 MIL PROFILE. BLAST PREPARATION TO BE VERIFIED BY SHERWIN WILLIAMS'S REPRESENTATIVE, OWNERS REPRESENTATIVE, ENGINEERING REPRESENTATIVE, CONTRACTOR'S QUALITY ASSURANCE DEPARTMENT OR PICTORIAL RECORD OF ALL BLASTING IN SEQUENCE FROM START TO FINISH OF PROJECT.
   8.3. FIRST COAT: 1 COAT OF SHERWIN WILLIAMS HI-MIL SHER-TAR #B69R 40 RED (OR APPROVED EQUAL) TO A DRY FILM THICKNESS OF 8 TO 12 MILS.
   8.4. SECOND COAT: 1 COAT OF SHERWIN WILLIAMS HI-MIL SHER-TAR #B69B 40 BLACK (OR APPROVED EQUAL) TO A DRY FILM THICKNESS OF 8 TO 12 MILLS.
   8.5. THE COATING CONTRACTOR AT THE FABRICATION/WORK SITE SHALL CHECK AND RECORD ALWAYS IMMEDIATELY BEFORE PAINTING BEGINS AND EVERY 2 HOURS UNTIL PAINTING STOPS FOR THAT PERIOD. STEEL SURFACE TEMPERATURE, AMBIENT AIR TEMPERATURE, HUMIDITY, AND DEW POINT SHALL BE RECORDED. ALL BATCH IDENTIFICATION NUMBERS SHALL BE RECORDED. DRY FILM THICKNESS FOR EACH COAT SHALL BE RECORDED ALONG WITH FINAL DRY FILM THICKNESS. THESE RECORDS SHALL BE KEPT AND A COPY GIVEN TO THE OWNER, OR OWNERS REPRESENTATIVE AT THE END OF THE CONTRACT.
   8.6. ALL APPLICATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS CURRENT WRITTEN APPLICATION PROCEDURES.
9. CONCRETE:
   9.1. ALL CONCRETING OPERATIONS SHALL COMPLY WITH ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
   9.2. DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315 "DETAILING MANUAL".
   9.3. THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS.
      9.3.1. CONCRETE MIX DESIGNS
      9.3.2. CONCRETE REINFORCING
   9.4. CONTRACTOR SHALL NOT FABRICATE OR PLACE REINFORCEMENT UNTIL REINFORCEMENT SHOP DRAWINGS, REVIEWED AND STAMPED BY THE STRUCTURAL ENGINEER, ARE RECEIVED ON THE JOB SITE. SHOP DRAWINGS SHALL CONSIST OF BOTH "CUT" AND PLACEMENT SHEETS. PLACEMENT SHEETS SHALL CONTAIN ALL INFORMATION NECESSARY TO POSITION ALL REINFORCING STEEL IN THE FIELD WITHOUT HAVING TO REFER TO THE STRUCTURAL DRAWINGS. STRUCTURAL DRAWINGS SHALL NOT BE COPIED OR REPRODUCED FOR USE AS SHOP DRAWINGS.
   9.5. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS, TESTING, AND INSPECTIONS SHALL BE USED TO VERIFY THAT CONSTRUCTION IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CODE.
   9.6. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNER'S TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED CONCRETE DESIGN STRENGTH IS THE CONTRACTOR'S.
   9.7. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
   9.8. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
   9.9. SEE SECTIONS AND DETAILS FOR REQUIRED STEEL COVERAGE.
   9.10. USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.
   9.11. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4 INCH CHAMFER.
   9.12. CONSTRUCTION JOINTS IN A HORIZONTAL PLANE ARE NOT PERMITTED.
   9.13. ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED OTHERWISE.
   9.14. TIE ALL REINFORCING STEEL AND EMBEDMENT'S SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.
10. STRUCTURAL STEEL:
   10.1. FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
   10.2. THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW SHOP DRAWINGS WHICH INCLUDE ERECTION DRAWINGS, MATERIALS, CONNECTIONS, FABRICATION, AND ALL DETAILS FOR THE FOLLOWING ITEMS.
      10.2.1. STRUCTURAL STEEL
   10.3. STRUCTURAL STEEL:
      10.3.1. ASTM A36 FOR STEEL ANGLES AND CHANNELS
      10.3.2. ASTM A36 FOR ALL PLATE STEEL
   10.4. STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B.
   10.5. WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". ALL SHOP AND FIELD WELDING SHALL BE BY A CERTIFIED WELDER.
11. CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (BMP)
   THE INTENT OF THE PLAN IS TO PREVENT EROSION AND RESULTING SEDIMENT TRANSPORTATION TO OFF-SITE LOCATIONS. CONTRACTOR SHALL PREPARE BMP PLAN IN ACCORDANCE WITH ADEM REQUIREMENTS AND AS NEEDED BASED ON THE CURRENT SITE CONDITIONS, ANTICIPATED WEATHER PATTERNS, ETC. THE CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY TO COMPLY WITH THIS INTENT AND THE ADEM (NPDES) STORM WATER DISCHARGE PERMIT. THE BEST MANAGEMENT PRACTICES PLAN ALONG WITH THE ADEM (NPDES PERMIT) SHALL BE KEPT ON-SITE WITH THE DAILY RAIN FALL LOGS AND COPIES OF ALL INSPECTION REPORTS. PERIMETER SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY LAND DISTURBANCE ACTIVITY.

NOTIFY ENGINEER FOR INSPECTION PRIOR TO FABRICATION, COATING APPLICATION, AND CONCRETE PLACEMENT.



SECTION A S101 S101
SCALE: 3/4" = 1'-0"



MOORING PILE ELEVATION
SCALE: 3/4" = 1'-0"

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STATE OF ALABAMA, No. 25083, PROFESSIONAL ENGINEER, 02/15/2023, ROBERT A. HARVEY

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MOBILE, ALABAMA

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CRUISE TERMINAL
150 TON MOORING PILE

MOORING PILE DETAILS
C.O.M. PROJECT NO. CT-013-23

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