

MOBILE COUNTY COMMISSION

COUNTY COMMISSIONERS

JERRY L. CARL, President

MERCERIA LUDGOOD, COMMISSIONER

CONNIE HUDSON, COMMISSIONER

Telephone (251) 574-5077



ADMINISTRATION

GLENN L. HODGE, COUNTY ADMINISTRATOR

EDDIE KERR, PE, DEPUTY COUNTY ADMINISTRATOR

Telephone (251) 574-5073

Fax (251) 574-5080

May 5, 2020

VIA EMAIL

Ms. Christy Fellas
NOAA Restoration Center
Deepwater Horizon NRDA Program
St. Petersburg, FL

RE: Bayfront Park – Essential Fish Habitat Consultation
Mobile County Commission

Ms. Fellas,

Thank you for your efforts to review the Bayfront Park project for Essential Fish Habitat (ESF) impacts. As requested, this letter attempts to compile all information relevant to the ESF review in order to facilitate completion of the process. In short, the information provided in the Essential Fish Habitat Assessment prepared by Barry A. Vittor & Associates, Inc. and dated February 4, 2020 is correct based on the current level of design.

The project Biological Evaluation Form that was completed at some time in the past contained language that there would be a “10-acre sand pocket beach in front of existing riprap, with 360 ft. of breakwaters and 800 ft. of grounds...”. Mobile County can unequivocally say that this information is not correct. It is assumed that this language was used early on in the grant development process before any analysis was performed.

The correct acreage of beach that is in areas of EFH is approximately 2.1 acres. Additionally, the area of groins is approximately 0.8 acres. These acreages are based on the current design status of near 60%. Calculations for this area prepared by Barry A. Vittor are contained in an attachment to this letter (note that the EFH Assessment contains an acreage of 2.87 acres, whereas the attached exhibit contains 2.9 acres – the difference of a few hundredths is due to rounding). Any future adjustments regarding beach/groin structures will only serve to reduce the acreage of impacts.

In addition to beach and groin structures, the Biological Evaluation Form makes mention of over 2000 linear feet of boardwalk to be constructed in this project. The Biological Evaluation

Form contains outdated information – the linear feet of boardwalk has been reduced from the length in the BE Form due to budgetary reasons.

The updated linear feet of boardwalk being constructed in this project is approximately 865 linear feet. Of this 865 linear feet, 160 linear feet will span tidal marsh. This length is referenced in the ESF Assessment prepared by Barry A. Vittor & Associates.

Additional attachments to this letter include the 90% park construction plans and the 30% pocket beach plans.

Please let me know if you have any further questions.

Best regards,

A handwritten signature in blue ink that reads "S. Matthew Jones". The signature is fluid and cursive, with the first name "S." being small and the last name "Jones" being larger and more prominent.

S. Matthew Jones, P.E.
Environmental Services Engineer
Mobile County Commission

SMJ/

Attachments: Barry Vittor Calculations
90% Park Construction Plans
30% Pocket Beach Construction Plans

cc: Mr. Eddie Kerr, P.E.
Ms. Tina Sanchez
Ms. January Murray
Ms. Kelly Swindle
Dr. Barry A. Vittor
File

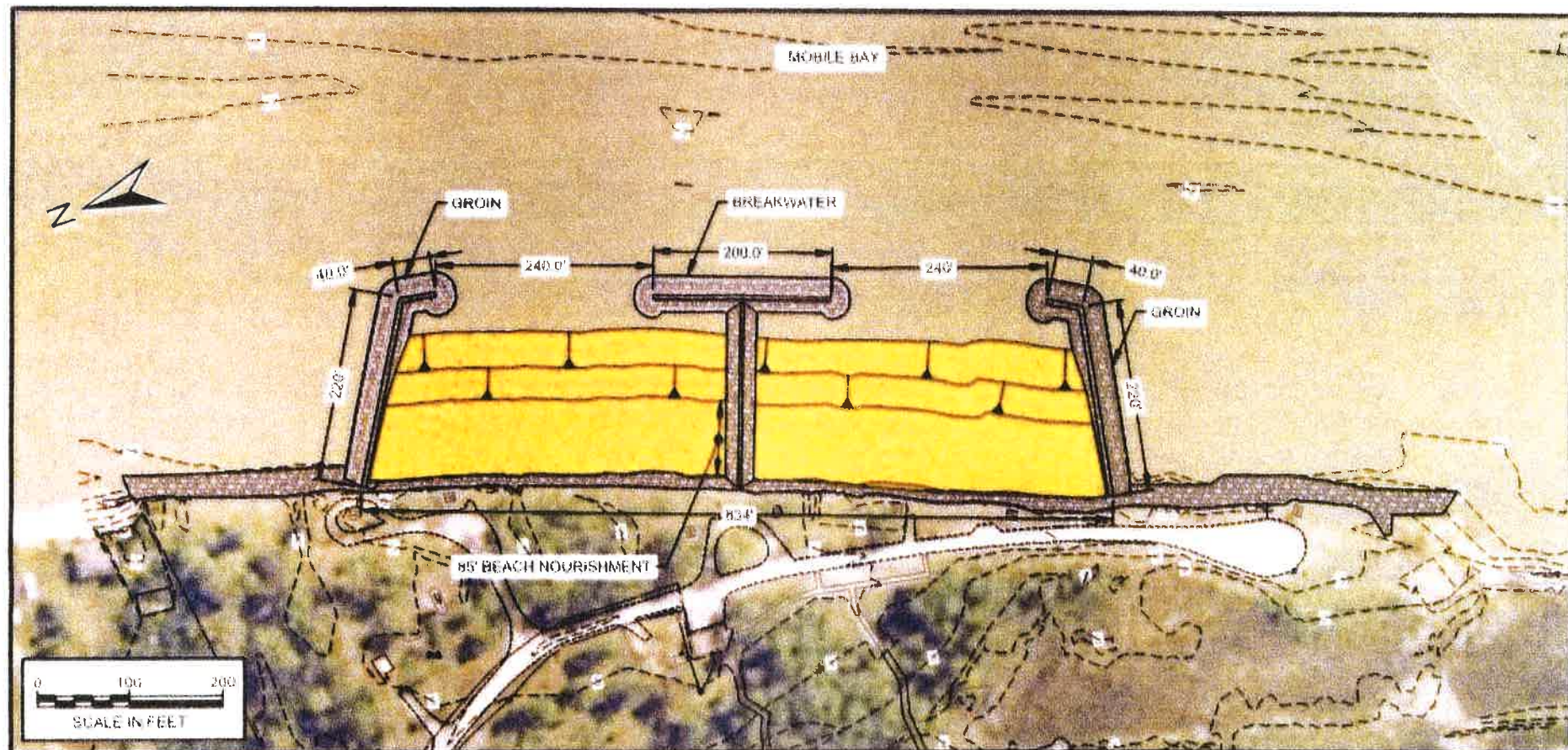


Figure 4. Site plan for the selected design for the proposed pocket beach

Center Breakwater $\cong 9,600 \text{ ft}^2$
 North Groin $\cong 12,000 \text{ ft}^2$
 South Groin $\cong 12,000 \text{ ft}^2$
 Total Area of EFH lost by rock fill $\cong 0.8 \text{ ac}$

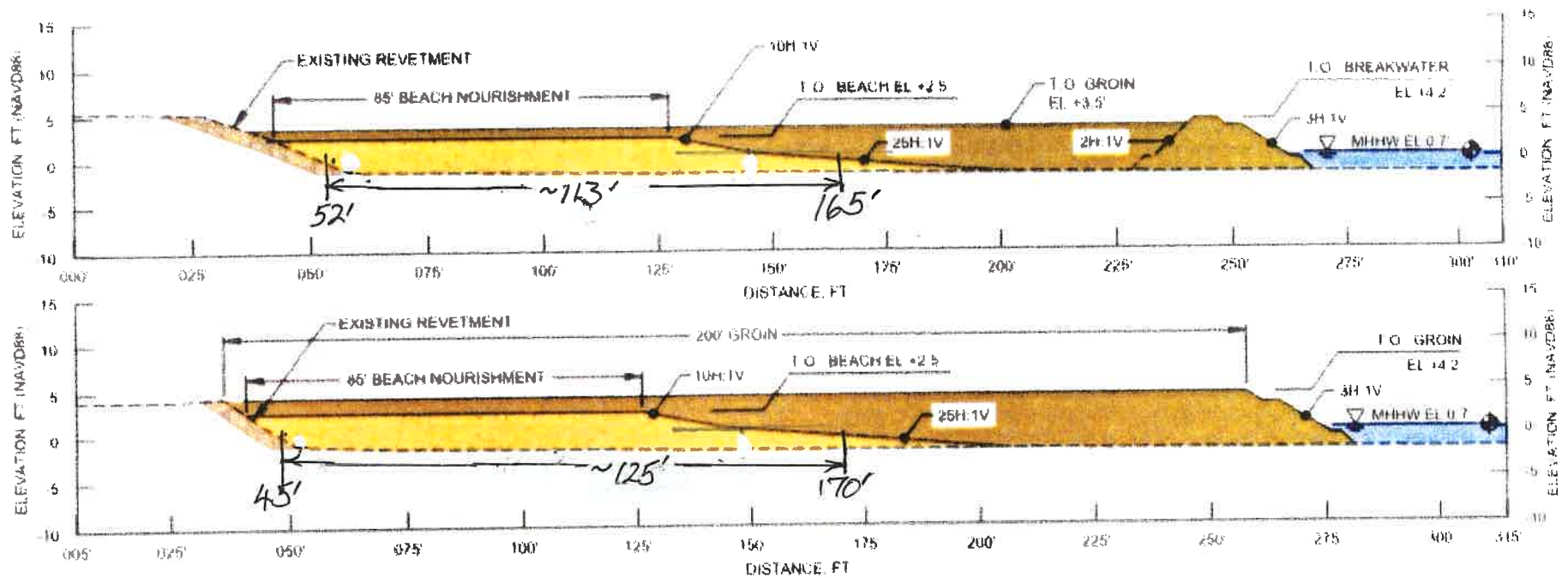


Figure 5. Profile views of the proposed beach nourishment area and protective structures

Average width of beach fill above MSL ≈ 119 ft
 Average length of beach ≈ 780 ft
 Area of EFH loss by beach fill ≈ 2.1 acres

MOBILE COUNTY COMMISSION

BAYFRONT PARK RESTORATION & IMPROVEMENTS

PROJECT NUMBER: NRDA-17-004

MAY, 2020

INDEX OF SHEETS

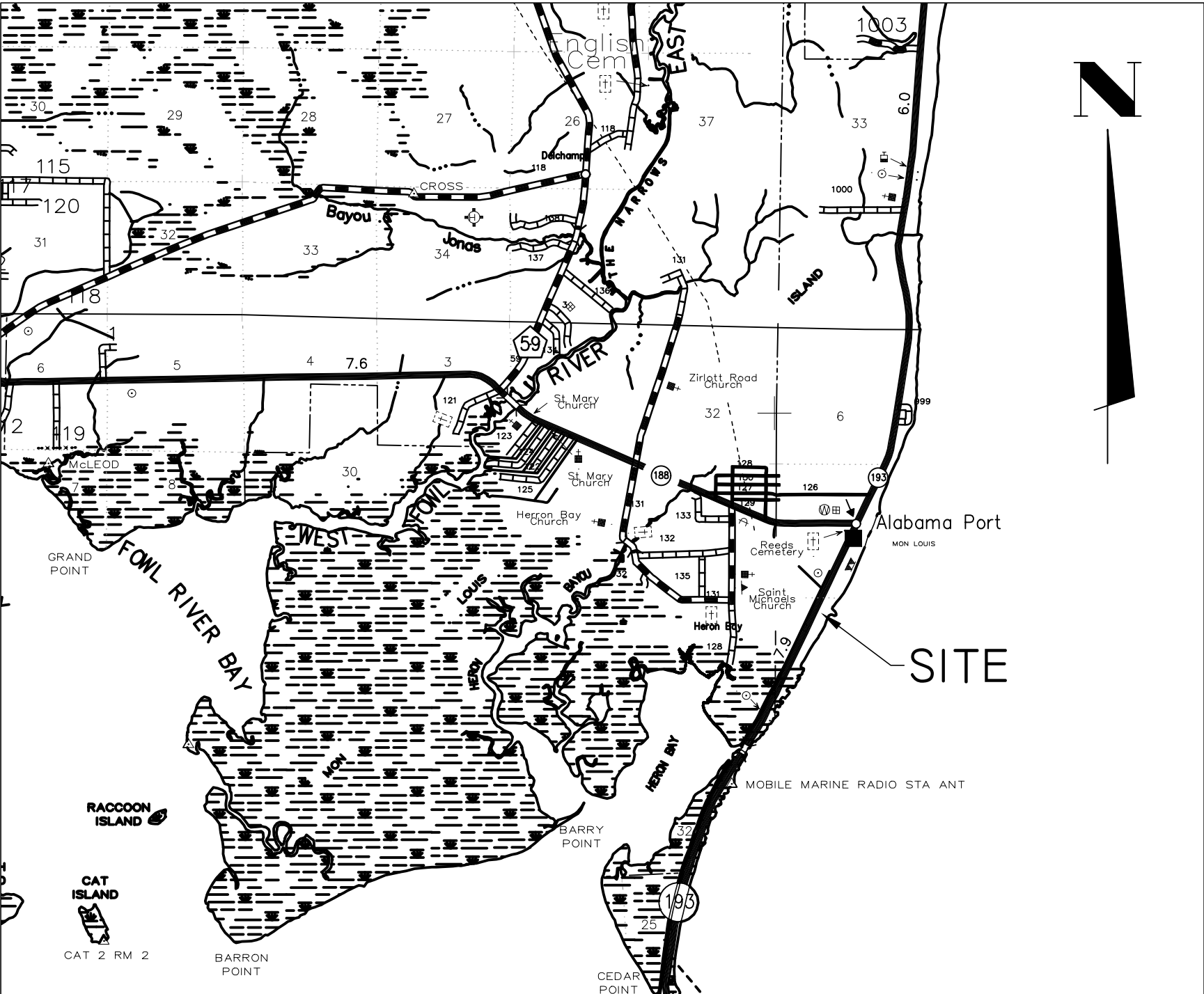
C0	COVER SHEET
C1	GENERAL NOTES
C1.1	SUMMARY OF QUANTITIES
C2	EXISTING CONDITIONS - DEMOLITION PLAN
C3	SITE PLAN
C3.1	ALDOT PERMIT PLAN
C4	GRADING PLAN
C5	UTILITY PLAN
C6	EROSION CONTROL PLAN
C7	MISCELLANEOUS DETAILS
L1	PLAY AREA PLAN
L2	PLAY DETAILS SHEET 1
L3	PLAY DETAILS SHEET 2
L4	PLANTING PLAN
L5	ENTRY FEATURE & SIGN CONCEPT
L6	TREE RELOCATION PLAN
S0	STRUCTURAL NOTES
S1	BOARDWALK OBSERVATION STRUCTURE PLANS
S2	BOARDWALK OBSERVATION STRUCTURE ELEVATIONS
S3	BOARDWALK AND BEACH CROSSINGS TYPICAL PLAN, ELEVATION AND DETAILS
S4	PLAYGROUND SHADE SHELTER FOUNDATION PLAN
S5	PLAYGROUND SHADE SHELTER ROOF FRAMING PLAN
S6	PLAYGROUND SHADE SHELTER ELEVATION
S7	SITE SHADE SHELTER PLAN AND ELEVATION
E1	ELECTRICAL SITE PLAN
E2	ELECTRICAL SITE PLAN
E3	ELECTRICAL DETAILS
E4	ELECTRICAL DETAILS
A0.2	LEGENDS AND ABBREVIATIONS
A0.3	CODE SUMMARY AND LIFE SAFETY PLAN
A0.4	LIFE SAFETY PLAN
A0.5	ARCHITECTURAL SITE PLAN
A1.0	GROUND FLOOR PLAN
A1.1	SECOND FLOOR PLAN
A1.3	REFLECTED CEILING PLAN
A1.4	ROOF PLAN
A2.0	ELEVATIONS
A3.0-A3.1	BUILDING SECTIONS
A3.2	EXTERIOR WALL SECTIONS
A3.3	PARTITION TYPES & DETAILS
A4.0	TOILET PLANS AND INTERIOR ELEVATIONS
A4.1	PUBLIC RESTROOMS ENLARGED PLANS, ELEVATIONS & SCHEDULES
A5.0	STAIR PLAN AND DETAILS
A5.1	RAMP PLAN AND DETAILS
A5.2	RAMP SECTIONS AND DETAILS
A5.3	RAMP SECTION AND DETAILS
A6.0	DOOR SCHEDULE AND DETAIL
A6.1	WINDOW SCHEDULE AND DETAILS
A6.2	LOUVER DETAILS
A7.0	ROOF DETAILS
A8.0	FINISH SCHEDULE AND LEGEND
A8.1	OBSERVATION PAVILION PLAN AND ELEVATIONS
A8.2	OBSERVATION PAVILION SECTIONS
S0.1	STRUCTURAL GENERAL NOTES
S0.2	STRUCTURAL GENERAL NOTES
S1.0	BUILDING PILE & SLAB ON GRADE PLAN
S1.1	BUILDING WALKWAY AND STAIR SUPPORT FRAMING PLAN
S1.2	BUILDING WALKWAY AND STAIR FRAMING PLAN
S1.3	BUILDING PILE CAP PLAN
S1.4	BUILDING SECOND FLOOR HOLLOW CORE PLAN
S1.5	BUILDING SECOND FLOOR WALL FRAMING PLAN
S1.6	BUILDING ROOF FRAMING PLAN
S2.0	BUILDING LONGITUDINAL SECTION
S2.1	BUILDING LATERAL SECTION
S3.0	PAVILION FOUNDATION AND ROOF PLANS
S3.1	PAVILION SECTION AND DETAILS
S4.0	CONCRETE COLUMN, BEAM AND HOLLOW CORE DETAILS
S4.1	RAMP SECTION AND DETAILS
S4.2	PRECAST PRESTRESSED CONCRETE PILES
P1.0	PLUMBING SCHEDULES AND DETAILS
P2.0-P2.3	PLUMBING WASTE PLAN
M1.0	HVAC GENERAL
M2.0	HVAC FLOOR PLAN ROOF AND GROUND FLOOR
M2.1	HVAC FLOOR PLAN 2ND FLOOR
M3.0	HVAC SCHEDULES
M4.0	HVAC DETAILS
E1.0	ELECTRICAL LEGENDS AND SCHEDULES
E2.0	ELECTRICAL LIGHTING PLAN (GROUND FLOOR)
E2.1	ELECTRICAL LIGHTING PLAN (SECOND FLOOR)
E3.0	ELECTRICAL POWER PLAN (GROUND FLOOR)
E3.1	ELECTRICAL POWER PLAN (SECOND FLOOR)
E4.0	ELECTRICAL RISER & PANEL SCHEDULES

MOBILE COUNTY COMMISSION

MERCERIA LUDGOOD - COMMISSIONER
CONNIE HUDSON - COMMISSIONER
JERRY CARL - COMMISSIONER (PRESIDENT)

ADMINISTRATIVE APPROVAL:

EDDIE KERR, P.E. - MOBILE COUNTY
ENGINEERING MANAGER
ENVIRONMENTAL SERVICES DEPARTMENT
PROJECT NO. NRDA-17-004



90% SUBMITTAL
(NOT FOR CONSTRUCTION)



BARRY A. VITTTOR AND
ASSOCIATES



WATTIER SURVEYING, INC.
PROFESSIONAL LAND SURVEYORS
4321 Downtowner Loop N., Suite 201 251-342-2640
Mobile, Alabama 36609 fax 251-342-2648

SUBMITTED BY:

KIRBY LATHAM AL. REG. NO. 23388 DATE

1. ALL PORTLAND CEMENT CONCRETE SHALL CONFORM TO SECTIONS 501 AND 815 OF ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2018 EDITION. UNLESS NOTED OTHERWISE, PAVEMENT CLASS B OR D ($f_c = 4000$ PSI).
2. ALL CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM TO CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
4. ALL COMPACTED EARTH FILL AND OTHER EARTHWORK SHALL CONFORM TO ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2018 EDITION, UNLESS NOTED OTHERWISE.
5. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND SHALL NOT BE PERMITTED IN COMPACTED EARTH FILL.
6. OMIT

- ALL EROSION CONTROL MEASURES SHALL CONFORM TO ALDOT STANDARD SPECIFICATIONS OR APPLICABLE SPECIFICATIONS CONTAINED WITHIN THE CONTRACT DOCUMENT.
8. OMIT.
9. EPOXY BONDER SHALL CONFORM TO ASTM C881.
10. ASPHALTIC CONCRETE SHALL BE ALDOT SUPERPAVE ASPHALTIC CONCRETE, ESAL RANGE C/D, UNLESS OTHERWISE NOTED.
11. ALL CRUSHED AGGREGATE BASE SHALL BE COMPACTED TO 98% ASTM D-698 MAX DRY DENSITY WITHIN 2% OPTIMUM MOISTURE CONTENT.
12. OMIT.
13. FILL MATERIALS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING TWELVE INCHES COMPACTED THICKNESS. EACH LIFT OF SELECT FILL SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT OF LABORATORY MAXIMUM AS DETERMINED BY ASTM D-1157, METHOD "A".
14. ALL IMPORTED FILL MATERIAL SHALL MEET AASHTO A-2-a(0) OR BETTER. COMPACTION OF SC AND CL MATERIALS SHALL CONFORM TO THE REQUIREMENTS GIVEN IN THE SOIL REPORT.
15. ANY WORK ITEMS NOT SPECIFIED IN THE PLANS SHALL CONFORM TO ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2018 EDITION.
16. CONTRACTOR SHALL AT ALL TIMES HAVE THE FOLLOWING AT THE SITE: A) MOBILE COUNTY WATER, SEWER AND FIRE PROTECTION AUTHORITY SPECIFICATIONS; B) SOUTH ALABAMA UTILITIES SPECIFICATIONS; C) ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) SPECIFICATIONS (LATEST EDITION); D) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD LATEST EDITION); E) ADEM PERMIT; F) ARMY CORPS OF ENGINEERS PERMIT.
17. ANY EXISTING PROPERTY CORNERS (I.E. - IRON PIPES, CAPPED PIPES, CAPPED MONUMENTS, ETC.) DISPLACED OR DAMAGED DURING CONSTRUCTION SHALL BE RESET BY A PLS LICENSED IN THE STATE OF ALABAMA AT NO COST TO THE OWNER.
18. THE CONTRACTOR SHALL KEEP THE PROJECT RIGHT-OF-WAYS CLEAN FROM TRASH AND DEBRIS. PLACEMENT/DISCARDING OF TRASH AND REFUSE IN UTILITY TRENCHES AND/OR OTHER EXCAVATIONS ASSOCIATED WITH THE PROJECT SHALL BE PROHIBITED. THE CONTRACTOR SHALL PROVIDE TRASH RECEPTACLES FOR WORKER USE. THE ROADWAYS AND SIDEWALKS SHALL BE SWEEPED AND WASHED DOWN REGULARLY TO LIMIT THE TRACKING OF DIRT THROUGH THE PROJECT BEFORE THE END OF THE WORK DAY ON FRIDAY.
19. AT THE END OF THE PROJECT THE CONTRACTOR SHALL POWER WASH ALL CONCRETE SIDEWALKS TO ELIMINATE STAINING FROM EARTHEN MATERIALS, CONSTRUCTION EQUIPMENT, OILS, PAINTS, ETC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
20. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AS PROVIDED BY UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CONTACT ALABAMA ONE-CALL FOR UTILITY LOCATES. IN THE EVENT OF ANY DAMAGE TO IN-PLACE UTILITIES, THEY SHALL BE REPAIRED AND REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
21. EXISTING SANITARY SEWER, STORM DRAIN, WATER DISTRIBUTION/FIRE PROTECTION, ETC. INFRASTRUCTURE TO BE RETAINED AS PART OF THIS PROJECT SHALL BE PROTECTED AT ALL TIMES. ANY DAMAGE TO THESE STRUCTURES SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
22. SITE DRAINAGE DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY TO MANAGE. THIS INCLUDES DEWATERING AREAS ON THE PROJECT SITE INCLUDING, BUT NOT LIMITED TO, FOOTINGS, RETAINING WALLS, SITE IMPROVEMENTS, DRIVES, STORM DRAINAGE, ETC. THERE SHALL BE NO ADDITIONAL PAY FOR DEWATERING, AND IT SHALL BE CONSIDERED INCIDENTAL.
23. IT IS IMPORTANT FOR THE CONTRACTOR TO MAINTAIN THE CONSTRUCTION SITE AND THE EXISTING FACILITIES IN A POSITIVELY MAINTAINED CONDITION BOTH DURING AND AFTER CONSTRUCTION. PONDING WATER CAN LEAD TO THE DETERIORATION OF THE SUBGRADE SURFACE NECESSITATING OVER-EXCAVATION OF THE SOFTENED SOIL. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IF CONDITIONS ARE ENCOUNTERED IN THE FIELD THAT WOULD REQUIRE IMMEDIATE TREATMENT OR WHICH COULD AFFECT THE INTEGRITY OF THE SITE. ANY UNSUITABLE MATERIALS GRATED AS A RESULT OF THE CONTRACTOR'S FAILURE TO PROVIDE SUITABLE DRAINAGE FROM SUBGRADE AND PROTECTION FROM CONSTRUCTION TRAFFIC SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
24. ALL CONSTRUCTION RELATED TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE REQUIRED CONSTRUCTION ENTRANCE.

1. AN NPDES PERMIT IS REQUIRED FOR THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE NECESSARY BEST MANAGEMENT PRACTICES (BMP'S) AND PERFORM THE ENSURE SEDIMENT AND OTHER DEBRIS REMAINS ON SITE ARE PROPERLY MANAGED AS TYPICALLY REQUIRED BY NPDES REGULATIONS. IF THE OWNER RETAINS THE RIGHT TO SUPPLY THE CONTRACTOR'S FORCES AT THE CONTRACTOR'S EXPENSE IN THE EVENT THE CONTRACTOR DOES NOT SATISFY THE NPDES REGULATION REQUIREMENTS, UPON COMPLETION OF THE PROJECT, THE SITE SHALL BE COMPLETELY STABILIZED AS TYPICALLY REQUIRED BY NPDES REGULATIONS.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR USING BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL THROUGHOUT CONSTRUCTION. AN EROSION CONTROL PLAN IS PROVIDED AS A MINIMUM GUIDE FOR PROVIDING STRUCTURAL BMP'S, PHASING, TEMPORARY GRASSING, AND OTHER METHODS AS PROVIDED IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT, SHALL BE UTILIZED TO MINIMIZE EROSION, NO EXTRA COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR MAINTAINING EROSION CONTROL ITEMS OR ADDITIONAL EROSION CONTROL ITEMS REQUIRED TO COMPLY WITH NPDES REGULATIONS.
3. ANY FINES INCURRED DUE TO FAILURE TO MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID BY THE CONTRACTOR. ANY ADDITIONAL WORK AND/OR MATERIALS ASSOCIATED WITH FINES OR REQUIRED BY THE FINING ENTITY SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP CLEAN ALL EROSION CONTROL STRUCTURES UNTIL THE PROJECT IS ACCEPTED AS COMPLETE BY THE OWNER.
5. SILT FENCES SHALL HAVE SEDIMENT DEPOSITS REMOVED IF THEY REACH A DEPTH OF FIFTEEN INCHES (15") OR 1/2 THE HEIGHT OF THE FENCE. SEDIMENT REMOVED FROM THE SILT FENCE SHALL BE REMOVED FROM THE SITE.
6. THE PROJECT AREA SHALL REMAIN CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO KEEP THE PROJECT AREA CLEAN, INCLUDING MOTORIZED STREET SWEEPERS, WATER AND VACUUM TRUCKS, HAND SWEEPING AND SHOVELING, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE AND POST RAIN EVENTS.
7. THE CONTRACTOR SHALL IDENTIFY ENTRANCE/EXIT LOCATIONS FOR EQUIPMENT AND INSTALL AND MAINTAIN TEMPORARY GRAVEL DRIVES TO REDUCE TRACKING ONTO PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING A STREET'S CLEARANCE OF ANY SEDIMENT FROM THE CONSTRUCTION SITE.
8. UPON COMPLETION OF GRADING OPERATIONS, THE CONTRACTOR SHALL PERMANENTLY SEED, SOLO SOD OR LANDSCAPE ALL DISTURBED AREA IN ACCORDANCE WITH THE DIRECTIVES SHOWN WITHIN THE CONSTRUCTION PLANS OR CONTRACT DOCUMENTS. ADEM REGULATIONS REQUIRE ALL DISTURBED AREAS NO UNDERGOING ACTIVE DISTURBANCE OR ACTIVE CONSTRUCTION FOR LONGER THAN THIRTEEN (13) DAYS SHALL BE SEEDED AND MULCHED TO ESTABLISH TEMPORARY VEGETATIVE COVER. THIS INCLUDES STOCKPILED EARTHEN MATERIAL.
9. OMIT
10. THE CONTRACTOR SHALL INSTALL STONE ON AND/OR STABILIZE EXISTING CONSTRUCTION ENTRANCE/EXIT(S) AS NECESSARY. ALL STONE FOR CONSTRUCTION ENTRANCE/EXIT(S) IS CONSIDERED INCIDENTAL REGARDLESS OF THE NUMBER OF TIMES ADDITIONAL STONE IS REQUIRED FOR EROSION CONTROL MEASURES.
11. THE CONTRACTOR SHALL SIZE, INSTALL, AND MAINTAIN ADEQUATE CONTROLS FOR THE SITE. REFER TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION.
12. THE CONTRACTOR IS RESPONSIBLE FOR DAILY INSPECTION AND CONTINUED MAINTENANCE OF EROSION CONTROL ELEMENTS.
13. ANY DISTURBED AREA(S) MAY NOT REMAIN DENUDE LONGER THAN 10 DAYS.
14. WHEN INSTALLING SILT FENCE THE CONTRACTOR SHALL PROPERLY PLAN THE LOCATION OF THE FENCING. WASTEFUL AND/OR POORLY-PLANNED INSTALLATIONS SHALL NOT RECEIVE ADDITIONAL PAY FOR REINSTALLATION.
15. THE PROJECT WILL BE MONITORED FOR EROSION CONTROL VIOLATIONS. VIOLATIONS CAN LEAD TO THE COUNTY, STATE OR OWNER ISSUING A STOP WORK ORDER. ANY FINES OR OTHER COSTS ASSOCIATED WITH THE CONTRACTOR'S FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID FOR BY THE CONTRACTOR INCLUDING ANY ADDITIONAL REQUIREMENTS PLACED ON THE PROJECT BY THE FINING AGENCY. THEREFORE, ALL BIDDERS ARE CONSIDERED TO ACCEPT THE STOP WORK ORDER. THE STOP WORK PERIOD: THIS IS A SITUATION TOTALLY IN THE CONTROL OF THE CONTRACTOR AND HE MUST MEET HIS RESPONSIBILITIES TO MAINTAIN A STABILIZED CONSTRUCTION SITE.

1. WHEN INSTALLING UTILITIES THE CONTRACTOR SHALL REFERENCE THE STORM DRAIN, SANITARY SEWER, WATER DISTRIBUTION/FIRE PROTECTION, ETC. CONSTRUCTION PLANS TO MAKE SURE INDIVIDUAL UTILITIES AND POLES ARE PLACED IN THE CORRECT HORIZONTAL AND VERTICAL LOCATIONS TO MAINTAIN SPACING AND MINIMUM COVER.
2. THE CONTRACTOR SHALL NOTE THAT IF UTILITIES ARE INSTALLED WITHOUT MINIMUM COVER OR NOT IN THE DESIGNATED LOCATIONS, THE CONDUITS, DUCT BANKS, PIPINGS, MANHOLES, ETC. SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.
3. CURRENT MOBILE COUNTY WATER, SEWER AND FIRE PROTECTION AUTHORITY AND SOUTH ALABAMA UTILITIES STANDARDS AND SPECIFICATIONS SHALL APPLY TO ALL WATER AND SANITARY SEWER INSTALLED ON THIS PROJECT.

1. THE WATER DISTRIBUTION SYSTEM THAT WILL BE TAPPED FOR THIS DEVELOPMENT IS OWNED AND OPERATED BY SOUTH ALABAMA UTILITIES. THE CONTRACTOR SHALL NOT AT ANY TIME TURN ON/OFF EXISTING WATER VALVES AND FIRE HYDRANTS. SOUTH ALABAMA UTILITIES SHALL OPERATE ALL VALVING AT ALL TIMES. TAPS AND CONNECTIONS TO EXISTING MAINS SHALL BE APPROVED AND COORDINATED WITH THE MOBILE AREA WATER & SEWER DEPARTMENT. ANY VIOLATION OF THIS REQUIREMENT SHALL BE THE CONTRACTOR'S PROPER OPERATION OF THE WATER DISTRIBUTION AND FIRE PROTECTION SYSTEM SHALL BE THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR (APPLIES TO CONTRACTOR AND ALL SUBCONTRACTORS).

2. NORTH ALABAMA UTILITIES' OWNER'S REPRESENTATIVE, AND LOCAL WATER CUSTOMERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE BEFORE ANY WATER DISTRIBUTION IMPROVEMENTS BEGIN.
3. ALL MAINS AND SERVICE LINES SHALL HAVE 36" MINIMUM COVER.
4. DOMESTIC SERVICES (METERS), BACKFLOW PREVENTERS, WATER LATERALS, WATER MAINS ETC. SHALL BE INSTALLED ACCORDING TO MOBILE AREA WATER & SEWER SYSTEM STANDARDS AND THE STANDARD DETAILS INCLUDED IN THIS PLAN SET.
5. ALL WATER DISTRIBUTION MAINS SHALL HAVE DUCTILE IRON FITTINGS ONLY. ALL GATE VALVES INSTALLED ON THE WATER DISTRIBUTION SYSTEM SHALL BE RESILIENT WEDGE VALVES TO ENSURE Ease OF OPERATION AND RELIABILITY.
6. THE CONTRACTOR SHALL VERIFY THE EXISTING WATER MAIN LOCATIONS PRIOR TO INSTALLING THE REQUIRED WATER MAINS. THESE LOCATIONS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE FOR VERIFICATION.

1. THE MOBILE COUNTY WATER, SEWER AND FIRE AUTHORITY, THE OWNER'S REPRESENTATIVE, AND LOCAL BUSINESSES/RESIDENTS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE BEFORE ANY SANITARY SEWER WORK BEGINS WITHIN THE PROJECT AREA.
2. THE CONTRACTOR SHALL VERIFY CONNECTIONS FOR FLOW LINE ELEVATIONS OF EXISTING SANITARY SEWER PIPING AND MANHOLE INVERTS BEFORE INSTALLING ANY REQUIRED SANITARY SEWER STRUCTURES AND PIPING. THE OWNER'S REPRESENTATIVE SHALL VERIFY THE PROPOSED DESIGN AS SOME INFORMATION WAS NOT VERIFIABLE DURING THE DESIGN. IF THE CONTRACTOR IGNORES THIS REQUEST AND HIS INSTALLATION IS INCORRECT, THEN IT SHALL BE HIS RESPONSIBILITY TO REPAIR THE DEFECTIVE STRUCTURES AT HIS COST AFTER THE OWNER'S REPRESENTATIVE FIELD VERIFIES THE INVERTS AND/OR GRADES.
3. ALL REQUIRED SANITARY STRUCTURE TOPS WITHIN A PAVED AREA SHALL MATCH FINISHED PAVEMENT GRADE.

4. ALL SANITARY SEWER MAINS AND SERVICE CONNECTIONS SHALL HAVE DUCTILE IRON FITTINGS ONLY AS PER THE DETAILS REGARDLESS OF THE MAIN OR LATERAL TYPE (PVC OR D.I.).
5. ANY EXISTING SANITARY STRUCTURES RETAINED AS PART OF THIS PROJECT SHALL BE THOROUGHLY CLEANED, WALLS WIPED WITH GROUT TO MAKE WATER TIGHT, INVERTS FORMED IF NECESSARY, EXISTING PIPING/DRAINS REGROUTED, ETC.
6. WHEN TYING TO EXISTING UTILITY PIPING WITH SANITARY SEWER STRUCTURES, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED SIZES OF PIPING. THE EXISTING UTILITY PIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST.
7. THE CONTRACTOR SHALL KEEP ALL LIVE SANITARY MAINS AND LATERALS FLOWING CONTINUOUSLY BY WHATEVER MEANS NECESSARY INCLUDING BYPASS PUMPING, TIE-INS AT NIGHT OR ON WEEKENDS, ETC.
8. ALL MANHOLE AND MAIN INSTALLATIONS SHALL BE TESTED. TESTING IS CONSIDERED INCIDENTAL TO THE PROJECT. THE CONTRACTOR SHALL COORDINATE ALL TESTING WITH THE ENGINEER AND THE MOBILE AREA WATER & SEWER SYSTEM.
9. BYPASS PUMPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL HAVE A BACK-UP PUMP ON SITE DURING ALL SEWER RELOCATIONS. ANY PLAN FOR BYPASS PUMPING SHALL BE REVIEWED AND APPROVED BY THE MOBILE AREA WATER & SEWER SYSTEM.

1. ANY DEMOLITION WORK REQUIRED IN THE PLANS THAT DOES NOT HAVE A SPECIFIC CALLOUT SHALL BE PERFORMED AS A SUBSIDIARY OBLIGATION AT NO ADDITIONAL COST. CONTRACTOR SHALL USE MOBILIZATION (600-A) AS THE ITEM FOR THIS COST.
2. THE CONTRACTOR SHALL USE EXTREME CAUTION DURING DEMOLITION IN ORDER TO PREVENT DAMAGE TO EXISTING ITEMS THAT ARE TO BE RETAINED. ANY DAMAGE TO EXISTING ITEMS THAT ARE TO BE RETAINED SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL SAWCUT ALL EXISTING PAVEMENT TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT TO ENSURE PROPOSED PAVEMENT JOINS TO EXISTING CLEANLY.
4. THE CONTRACTOR SHALL COORDINATE REMOVAL/RELOCATION OF PRIVATE UTILITIES WITH THE UTILITY OWNER.

1. THE CONTRACTOR SHALL SAW-CUT ALL EXISTING PAVEMENTS TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT TO ENSURE PROPOSED PAVEMENT JOINT TO EXISTING CLEANLY.
2. ALL PARKING STRIPING, MARKINGS, AND LEGENDS SHALL BE ALDOTT CLASS 1, TYPE B UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL NOTE THE DIFFERENT PAVEMENT TYPICAL SECTIONS FOR THE PROJECT.

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
2. TOPSOIL SHALL BE PLACED WHERE INDICATED ON THE CONSTRUCTION PLANS AND ALL DISTURBED AREAS SHALL BE SEEDED, SOLID SODDED OR LANDSCAPED ONCE FINAL GRADING OPERATIONS HAVE BEEN COMPLETED WITHIN THE SPECIFIC AREA. THE CONTRACTOR SHALL REFER TO SHEET C-2.1 WHICH SHOWS WHICH AREAS ARE TO BE SEEDED AND WHICH AREAS ARE TO BE SOLID SODDED OR LANDSCAPED.
3. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS BENEATH REQUIRED PAVEMENT SHALL BE COMPACTED IN LOOSE 6" LIFTS TO 98% AASHTO T-99.
4. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY WHERE GRADING OPERATIONS ARE TO BE PERFORMED AS SHOWN ON THE GRADING PLANS.
5. OMIT
6. CONTRACTOR SHALL DEFER TO THE SOUTHERN EARTH SCIENCES GEOTECHNICAL REPORT FOR REMOVING AND REPLACEMENT OF EXISTING SOIL MATERIALS. CONTRACTOR SHALL FOLLOW DIRECTION OF SOUTH EARTH SCIENCES REPRESENTATIVES AT SITE DURING EARTHWORK OPERATIONS.
7. ALL UNCLASSIFIED QUANTITIES SHALL BE PAID AS PLAN QUANTITIES (NOT TRUCK TICKETS, ETC...)

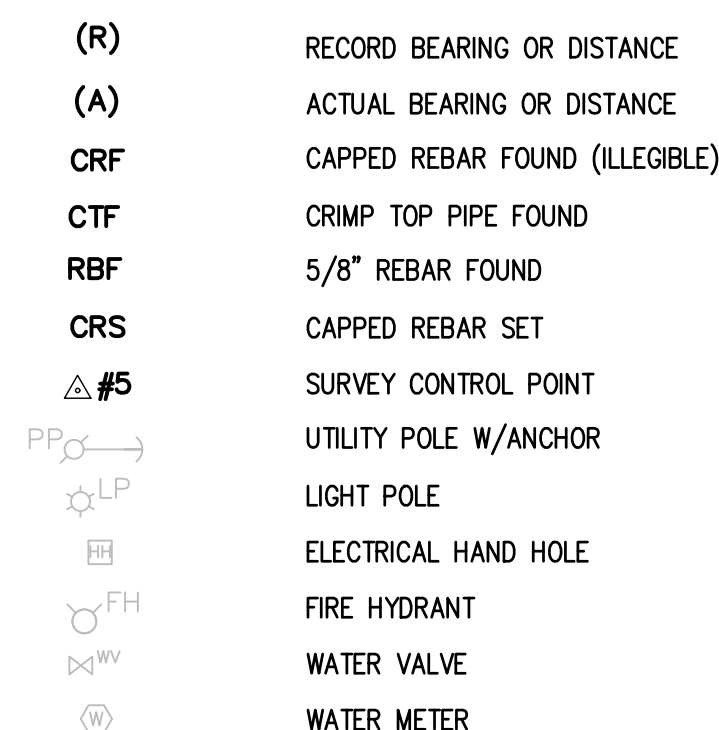
PROJECT CONTACT INFORMATION















(SEWER) MOBILE COUNTY WATER, SEWER
AND FIRE PROTECTION AUTHORITY
CONTACT: ROB DAVIS
5780 THEODORE DAWES ROAD
THEODORE, ALABAMA 36582
(251) 653-7346

AT&T
CONTACT: EDDIE MONTGOMERY
2155 OLD SHELL ROAD
MOBILE, ALABAMA 36607
(251) 470-5657







SUMMARY OF QUANTITIES

Pay Item	Item Description	Unit	Quantity
201-A	Selected Clearing	Acre	2.35
205-A1	Existing Restroom Demolition	Each	1
205-A2	Remove Existing Boardwalk	SY	533
205-A3	Remove Playground Equipment	LS	1
205-A4	Remove Existing Shade Shelters	Each	8
206-C	Remove Existing Concrete Sidewalk	SY	315
210-A	Unclassified Elevation	CY	1250
210-D	Borrow Excavation	CY	1000
230-A	Road Bed Processing (Under asphalt and Crushed Aggregate)	SY	5181
301-A1	Crushed Aggregate, 6" Compacted Thickness (Park Road)	SY	3500
301-A2	Crushed Aggregate Stone Base Course(ALDOT Section 825, Type B) (6" Compacted Thickness to 100% AASHTO T-99) (to be placed in 2 equal Layers) (12 inch total thickness)	SY	220
301-B	Existing Crushed Limestone to be Cleaned and Reused (Assume 4" thick)	SY	4500
401-A	Bituminous Treatment A	SY	220
405-A	Tack Coat	GAL	22
424-A	Superpave Bituminous Concrete Wearing Surface Layer, 1/2" Max. Agg. Size Mix, (ALDOT Section 424A-360 ESAL C/D)(1.5" Compacted Thickness 165lb/SY)	TON	19
424-B	Superpave Bituminous Concrete Binder Layer, 1" Max. Agg. Size Mix, (ALDOT Section 424B)(5.5" Compacted Thickness) (to be placed in 2 equal layers; 605 lb/sy)	TON	67
567-A1	6' Wide Elevated Boardwalk	LF	865
567-A2	Boardwalk Observation Structures	Each	2
567-A3	Crossover Boardwalk	LF	128
600-A	Mobilization	LS	1
604-A	Separation Geotextile	SY	4986
605-C	4" Schedule 80 PVC for Underdrain	LF	292
618-A1	4" Thick Concrete Sidewalk	SY	1875
618-A2	6" Thick Concrete Pavement	SY	186
619-A	ALDOT 18" Sidedrain Headwall	Each	2
623-B1	Ravel Curb	LF	2961
623-B2	12" Concrete Border Curb	LF	230
635-A	18" RCP Side Drain Pipe	LF	32
641-A1	2" SDR21 PVC Pipe	LF	517
641-A2	6" C900 PVC Watermain	LF	481
641-C	Ductile Iron Fittings	LB	158
641-D	Fire Hydrant	Each	1
645-A	2" San. Sewer Forcemain	LF	280
645-P	Relocate Existing Grinder Pump Lift Station	LS	1
650-B	Top Soil	CY	1075
654-A	Solid Sodding (Centipede)	SY	9685
660-D1	Tree Planting, Live Oak	Each	1
660-D2	Tree Planting, Medium Flowering1	Each	5
660-D3	Tree Planting, Medium Flowering 2	Each	12
660-D4	Tree Planting, Medium Flowing 3	Each	6
660-G	Fertilizer Tablet	Each	100
660-J1	Mulch, Soil Conditioner	Each	2
660-J2	Mulch, Surface Application	Each	2
661-C	Remove and Reset Trees	Each	18
665-J	Silt Fence	LF	5755
665-N	Temporary Course Aggregate ALDOT Number 4	Tons	50
665-O	Silt Fence Removal	LF	5755
680-A	Geometric Controls	LS	1
701-A	Yellow Striping	LF	50
703-A	Stop Bar Marking	SF	56
710-A	Stop Sign With Post	Each	1
750-Z	Lighting for Overall Site and includes all Electrical Runs	LS	1
792-A1	Park Entry Features Including Sign, Timber Wall, Sign, Painting Gate and Oysters in Gabion Basket	LS	1
792-A2	Play Feature - Broken Crows Nest & Ship Climber	Each	1
792-A3	Play Feature - Friendship Spinner	Each	1
792-A4	Play Feature - Crate Stepper	Each	1
792-A5	Play Feature - Fishing Boat	Each	1
792-A6	Play Feature - Swing	Each	1
792-A7	Play Feature - Sea Turtle	Each	1
792-A8	Play Surfacing & Base (Include Base and Drainage)	SF	5300
792-A9	Bench	Each	6
792-A10	Trash Receptable	Each	5
792-A11	Picnic Table	Each	9
792-A12	Vinyl Coated Chain Link Fence	LF	350
792-A13	Vinyl Coated Chain Link Single Gate	Each	2
792-A14	Vinyl Coated Chain Link Double Gate	Each	1
792-A15	Piling Wall	LF	70
792-A16	Replace Existing Shade Structures (8) and adding one	Each	9
792-A17	Playground Shade Structure	Each	1
792-A18	Recycled Rubber Parking Bumpers	Each	40
792-A19	Overlook Structure with walkover	LS	1
792-A20	New Restroom Office	LS	1



	WATER LINE MARKER
	FIBRE OPTICS MARKER
	COMMUNICATION VAULT
	TELEPHONE PEDESTAL
	SANITARY SEWER VAULT
	SANITARY SEWER CLEAN OUT
	SANITARY SEWER VALVE
	SANITARY SEWER LINE MARKER
	OVERHEAD UTILITIES
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND COMMUNICATION LINE
	WATER LINE
	SANITARY SEWER LINE
	STORM DRAIN PIPE

	WOOD PRIVACY FENCE
	CHAIN LINK FENCE
	TREE LINE
	MARSH LINE
	RIP RAP
	SIGN
	BAR-B-QUE GRILL
	SOIL BORING
	WETLAND DELINEATION FLAG
	WETLAND BOUNDARY LINE
	EDGE OF WATER/SHORE LINE
	EDGE OF MARSH/TIDAL WATER

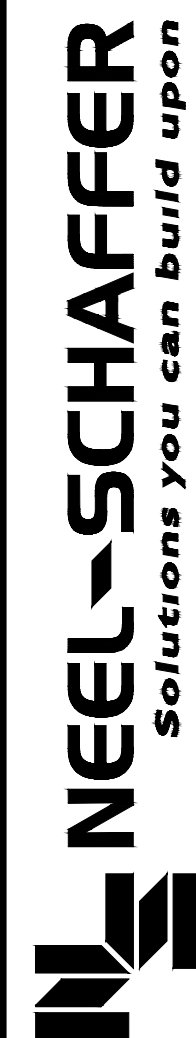
	EXIST. WETLAND
	EXIST. MARSH
	DEMOLITION
	STANDING WATER
	EXIST. RIP RAP
	EXISTING CRUSHED LIMESTONE ROADWAY TO BE RE-USED ON SITE

MOBILE COUNTY, BAYFRONT PARK RESTORATION AND IMPROVEMENTS EXISTING CONDITIONS - DEMOLITION PLAN

MOBILE: ALABAMA

[illegible]

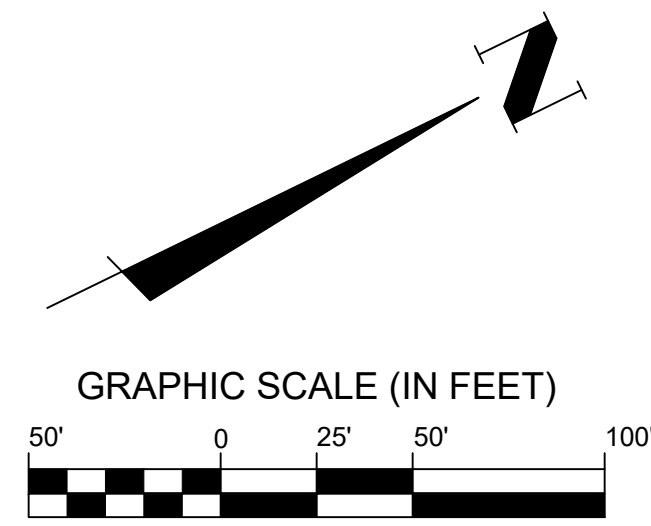
C2


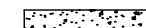

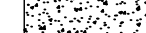

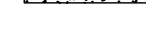




351 E. I-65 Service Road South, Suite 1000
Mobile, Alabama 36606
TEL: (251) 471-2000
FAX: (251) 471-5997

Approved By _____

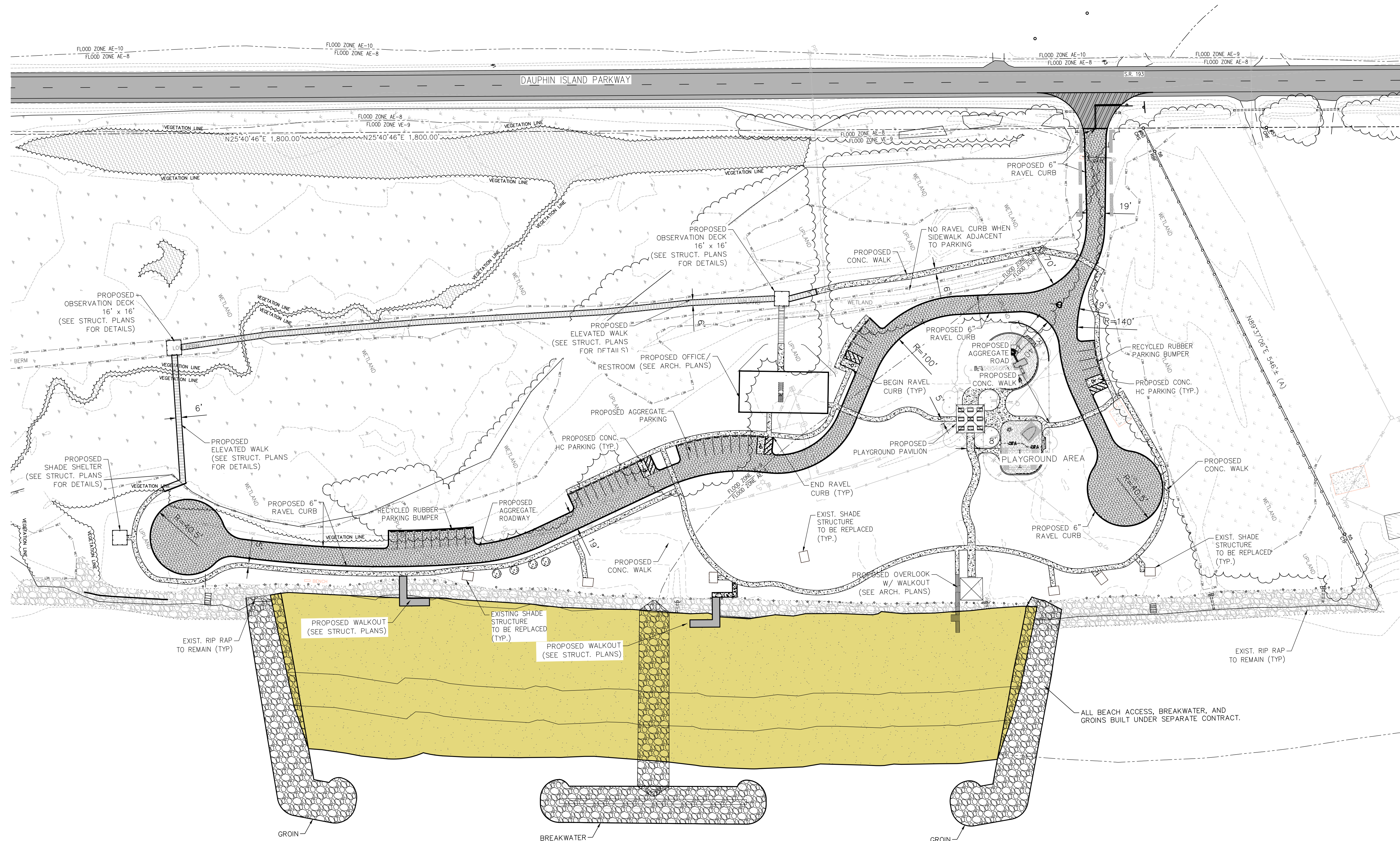
LEGEND



- | | | | |
|---|----------------|---|------------------------------------|
|  | EXIST. WETLAND |  | PROPOSED CONCRETE WALK |
|  | EXIST. MARSH |  | PROPOSED ELEVATED WALKWAY |
|  | STANDING WATER |  | PROPOSED AGGREGATE ROADWAY/PARKING |
|  | EXIST. RIP RAP |  | PROPOSED ASPHALT |

NOTES:

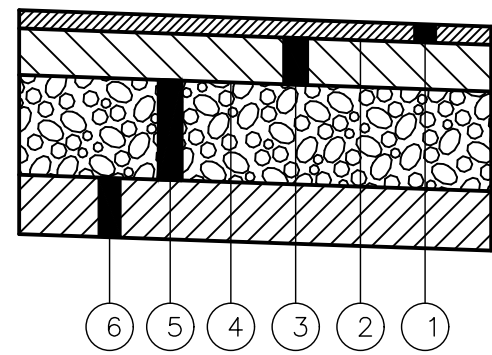
1. SIDEWALK TO BE FIELD LOCATED TO AVOID TREES.
2. SEE SHEET L6 FOR TREE RELOCATION PLAN.
3. THE LEGAL PERMIT APPLICANT IS HELD RESPONSIBLE AND LIABLE FOR ALL DAMAGES, ACTIONS, OR RESPONSIBILITIES OF THEIR APPOINTED CONTRACTORS, ASSIGNS, OR APPOINTEES.
4. ALL DRAINAGE ONSITE WILL BE ROUTED TO MOBILE BAY. NO DRAINAGE WILL BE ROUTED TO STATE ROUTE 193 RIGHT-OF-WAY.



(NOT FOR CONSTRUCTION)

SITE PLAN

MOBILE, ALABAMA

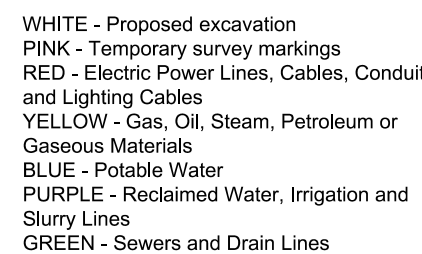


NOT TO SCALE

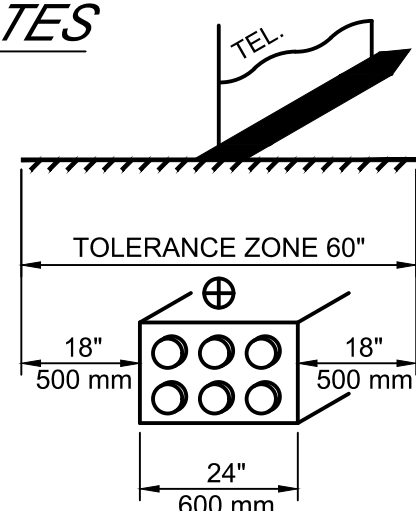
NOTE: ONLY USE IF EXISTING DRIVE IS DAMAGED DURING DEMOLITION

EXISTING UTILITY NOTES

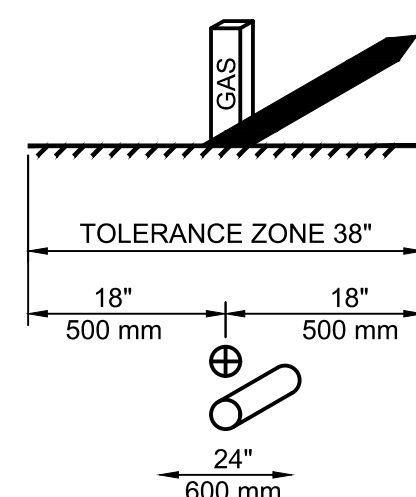
FOR MARKING UNDERGROUND UTILITY LINES
APWA UNIFORM COLOR CODE



811 Know what's below,
Call before you dig



ANY EXCAVATION WITHIN THE TOLERANCE ZONE SHOULD BE PERFORMED WITH NON-POWERED HAND TOOLS OR NON-INVASIVE METHODS UNTIL THE MARKED FACILITY IS EXPOSED. THE WIDTH OF THE TOLERANCE ZONE MAY BE SPECIFIED IN LAW OR CODE. IF NOT, 500 mm (18") IS REQUIRED FROM EACH SIDE OF THE FACILITY. THE TOLERANCE ZONE INCLUDES THE WIDTH OF THE FACILITY PLUS 18" (500 mm) MEASURED HORIZONTALLY FROM EACH SIDE OF THE FACILITY.

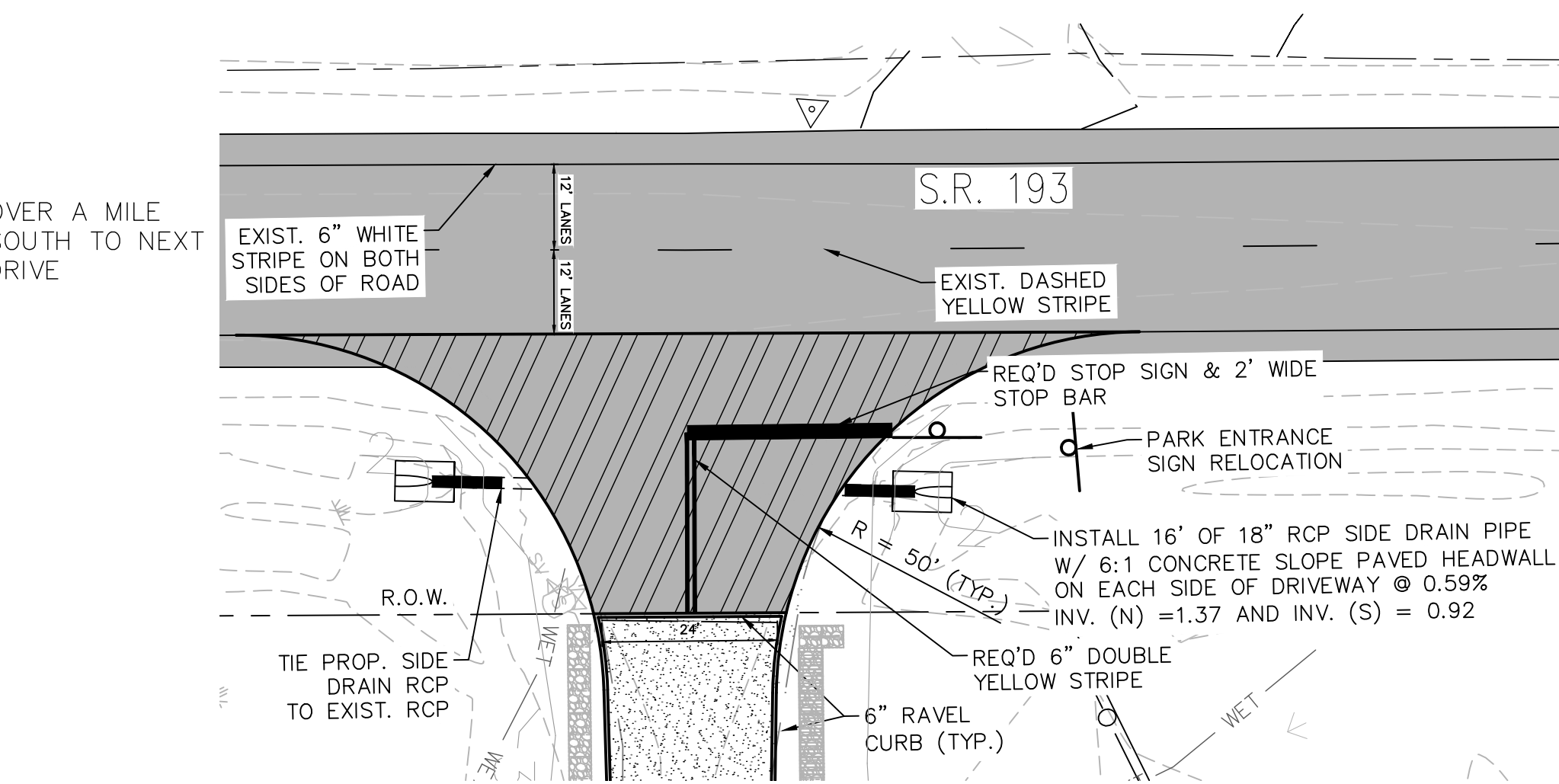


ALDOT PERMIT ADDRESS

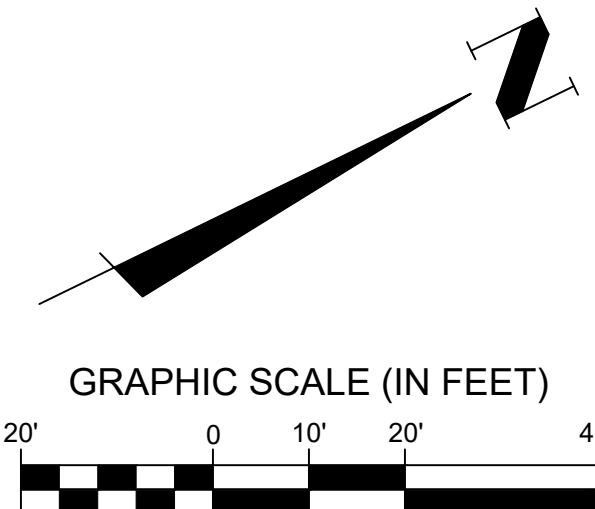
MOBILE COUNTY
205 GOVERNMENT STREET
MOBILE, AL 36644

SITE ADDRESS

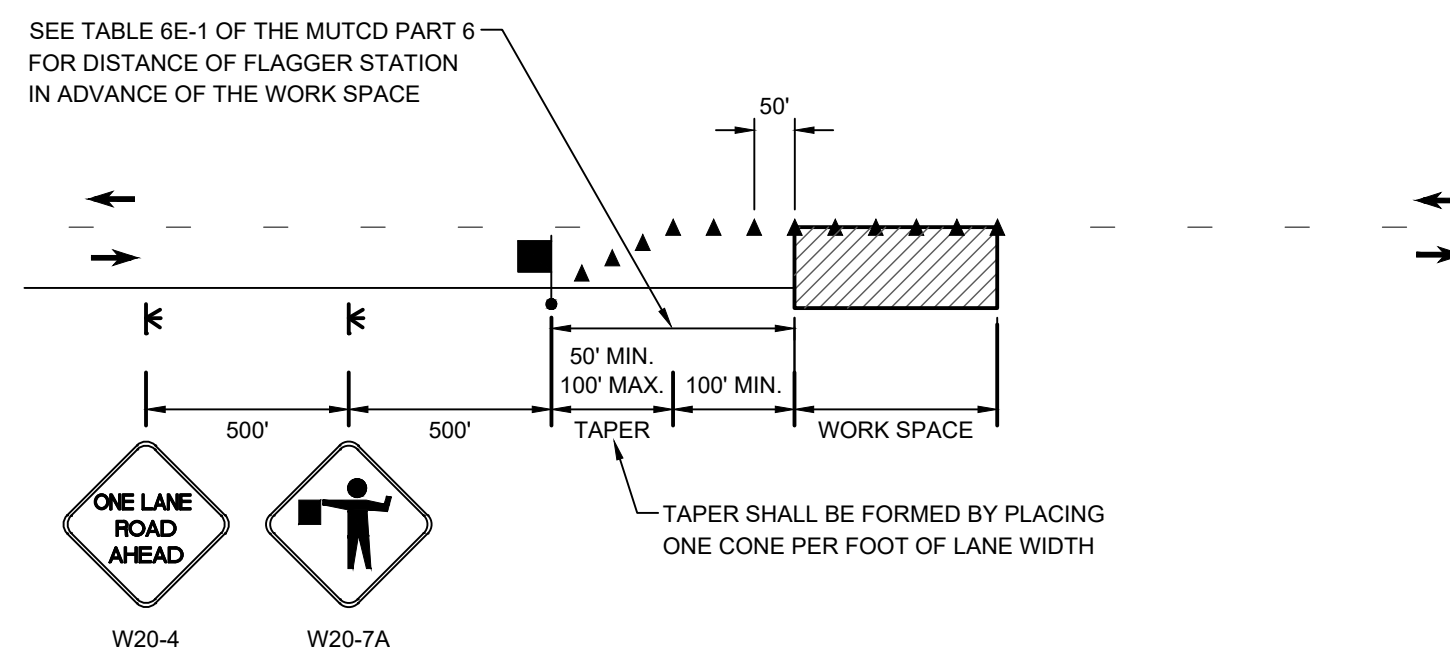
16057 WILCOX ROAD
MOBILE COUNTY ALABAMA



240 FEET NORTH
TO RESIDENTIAL
DRIVE



NOTE: PLEASE REFER TO ALDOT STANDARD DETAIL HW-614-SP (INDEX 415) FOR
DETAIL OF 6:1 FOR CONCRETE SLOPE PAVED HEADWALL FOR SIDE DRAIN PIPE.



TCP GENERAL NOTES:

1. ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.
2. THE W3-S SIGN SHALL SHOW THE LOWEST SPEED POSTED IN THE WORK ZONE (XX). SIGN (YY) SHALL BE USED IF SPEED REDUCTION REQUIRE TWO SIGNS. SIGN (ZZ) SHALL SHOW THE POSTED SPEED OUTSIDE THE WORK ZONE.
3. SPEED REDUCTION SIGNS TYPICALLY REFER TO HIGH SPEED HIGHWAY PROJECTS. THE MUTCD SHALL BE REFERENCED FOR THEIR USE.
4. ROAD WORK AHEAD SIGNS SHALL BE POST MOUNTED ON ALL SIDE STREETS THAT FALL WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.
5. LENGTH BETWEEN SIGNS SHALL VARY BASED ON MUTCD AND DESIGN SPEED, THE CONTRACTOR SHALL MODIFY AS PER MUTCD WHEN NECESSARY BASED ON LOCATION OF ROAD WORK.
6. SOME TRAFFIC CONTROL DETAILS HAVE BEEN PROVIDED FOR GENERAL USE; HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW THE MUTCD, LATEST EDITION FOR ALL TRAFFIC CONTROL NEEDS DURING CONSTRUCTION.
7. DURING TEMPORARY ROAD CLOSURES WHICH WILL OCCUR DURING THIS PROJECT THE CONTRACTOR SHALL NOTIFY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND THE OWNER'S REPRESENTATIVE ONE (1) WEEK IN ADVANCE, SO THE DETOURS CAN BE APPROVED AND DIGITAL MESSAGE BOARDS THROUGHOUT THE CITY CAN NOTIFY THE PUBLIC. THE CONTRACTOR WILL ALSO BE REQUIRED TO ADVERTISE IN THE LOCAL NEWSPAPER ONE (1) WEEK IN ADVANCE OF THE ROAD CLOSURE.
8. ALTHOUGH PERIODIC ROAD CLOSURES WILL BE REQUIRED DURING THIS PROJECT, THE CONTRACTOR SHALL KEEP ACCESS FOR LOCAL TRAFFIC TO PRIVATE RESIDENCES AND COMMERCIAL BUSINESSES AT ALL TIMES.
9. LANE CLOSURES SHALL BE LIMITED TO THE HOURS OF 9 AM TO 3 PM MONDAY THROUGH FRIDAY UNLESS DIRECTED BY ALDOT OTHERWISE.

TWO LANE HIGHWAY, ONE LANE CLOSURE
NOT TO SCALE

ALDOT GENERAL NOTES:

1. ALL METERS SHALL BE INSTALLED OFF OF ALDOT RIGHT-OF-WAY.
2. ALL MANHOLES, VALVE BOXES, AND HAND HOLES SHOULD BE FLUSH WITH EXISTING GROUND.
3. APPLICANT SHALL CONTACT THE DISTRICT ADMINISTRATOR 48 HOURS PRIOR TO BEGINNING WORK ON ALDOT RIGHT-OF-WAY: MOBILE COUNTY DISTRICT ADMINISTRATOR-MR. FRANKIE SMITH, (251) 470-8322.
4. THE ENGINEER OF RECORD SHALL PROMPTLY WRITE A LETTER TO THE DISTRICT ADMINISTRATOR REQUESTING AN INSPECTION UPON COMPLETION OF THE PERMITTED WORK. ANY PUNCH LIST ITEMS SHALL BE COMPLETED PRIOR TO PROVISIONAL ACCEPTANCE OF WORK.
5. BONDS SUBMITTED FOR PERMITS SHALL BE HELD FOR A ONE YEAR MAINTENANCE PERIOD WHICH BEGINS ON THE PROVISIONAL ACCEPTANCE DATE ISSUED BY THE DEPARTMENT. DURING THIS TIME ANY FAILURES, DEFICIENCIES, OR MAINTENANCE CARE SHALL BE THE RESPONSIBILITY OF THE APPLICANT. AT THE END OF THE MAINTENANCE PERIOD THE APPLICANT OR ENGINEER OF RECORD SHALL SUBMIT A BOND RELEASE REQUEST LETTER TO THE DISTRICT ADMINISTRATOR, BONDS ARE NOT RELEASED WITHOUT REQUEST.
6. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION. (IF PROJECT NECESSITATES LANE CLOSURE, LANE CLOSURE MUST BE MADE PART OF THE PERMIT.)
7. ONSITE REPRESENTATIVES & CONTACT INFORMATION:
8. ONSITE REPRESENTATIVES WILL HAVE ON HAND, AT ALL TIMES:
 - A. APPROVED PERMIT AND PLANS STAMPED BY THE REGION ENGINEER.
 - B. TRAFFIC CONTROL PLANS
 - C. EROSION CONTROL PLANS.
9. ALL DISTURBED AREAS ON ROW SHALL RECEIVE 4" OF TOPSOIL AND BE SODDED OR SEEDED AS DIRECTED BY THE DEPARTMENT.
10. ALL WORK ON THE ROW WILL BE IN CONFORMANCE WITH THE LATEST EDITION OF ALDOT STANDARD SPECIFICATIONS.
11. ELECTRIC POWER AND COMMUNICATION FACILITIES WILL CONFORM TO THE CURRENT APPLICABLE NATIONAL ELECTRICAL SAFETY CODE.
12. A BEST MANAGEMENT PLAN SHALL AT MINIMUM RETURN ALL EXPOSED AREAS TO ORIGINAL OR BETTER CONDITION AND REQUIRE STAND OF GRASS AND/OR SOD BEFORE ACCEPTANCE. SILT FENCE AND ANY OTHER EROSION CONTROL ITEMS NEEDED SHALL BE USED TO PREVENT EROSION (NO HAYBALES ARE ALLOWED IN ROW).
13. ALL TREES OVER 4" DBH SHALL NOT BE CUT/REMOVED WITHOUT WRITTEN PERMISSION FROM ALDOT.
14. ABSOLUTELY NO BORE PITS SHALL BE ALLOWED TO BE UNFILLED AND/OR UNCOVERED OVERNIGHT UNLESS PROTECTED (BORE PITS HAVE A MAXIMUM OF 72 HOURS TO BE OPEN BEFORE FILLED).
15. UPON COMPLETION & ANY TIME THEREAFTER, ALDOT RETAINS THE RIGHT TO REQUEST AN AS-BUILT PLAN OF ANY PERMITTED WORK IN DEPARTMENT'S RIGHT-OF-WAY (ROW).
16. WARNING: DO NOT DISTURB SURVEY MARKERS LOCATED ON ALDOT RIGHT-OF-WAY. ANY PROPERTY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY AN ALABAMA LICENSED PROFESSIONAL LAND SURVEYOR AT THE EXPENSE OF THE PERMIT APPLICANT.
17. THE TOTAL AREA TO BE DISTURBED DURING CONSTRUCTION OF THIS PERMIT: 12.72± ACRES. (ON AND OFF ROW COMBINED)
18. WATER LINES SHALL CONFORM TO THE CURRENTLY APPLICABLE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION.
19. PRESSURE PIPE LINES SHALL CONFORM TO THE CURRENTLY APPLICABLE SECTIONS OF AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
20. AS REQUIRED BY ALABAMA ACT 94-487: CALL TWO WORKING DAYS BEFORE EXCAVATION 1-800-292-8525, ALABAMA LINE LOCATION CENTER, INC.
21. ALL EXISTING UTILITY FACILITIES IN THE PROPOSED WORK AREA SHALL BE PHYSICALLY LOCATED BOTH HORIZONTALLY AND VERTICALLY:
 - A. THE UTILITY FACILITIES IN THE AREA OF WORK ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE, ACCORDING TO LOCATES PROVIDED BY 811 AND INDIVIDUAL DUE DILIGENCE. ENGINEER'S INITIALS: JGC
 - B. 811 LOCATE REQUEST # 191900039
22. ALL DISTURBED AREAS DURING CONSTRUCTION SHALL BE REPLACED, RESTORED, SODDED BY THE APPLICANT AS DIRECTED BY THE ALABAMA DEPARTMENT OF TRANSPORTATION DISTRICT ADMINISTRATOR.
23. ALL FILL MATERIAL OR ONSITE DEBRIS DEPOSITED IN THE RIGHT-OF-WAY SHALL BE REMOVED PRIOR TO ISSUANCE OF FINAL ACCEPTANCE TO BEGIN THE ONE YEAR MAINTENANCE PERIOD OF THE PERMIT CONTRACT.
24. THE APPLICANT SHALL SEE THAT ALL SOLID WASTE (I.E. WOOD, STUMPS, ETC.) IS DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM).
25. PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS HISTORICAL STRUCTURES, TREES, DRAINS, WATER OR GAS PIPES, POLES, WALLS, ETC. ARE NOT TO BE DISTURBED UNLESS NOTED AND APPROVED BY SHPO, ALDOT, ADEM, EPA, ETC.
26. THE APPLICANT IS RESPONSIBLE TO SEE THAT STREET ARE CLEANED IMMEDIATELY AFTER CONCRETE OR OTHER DELIVERY TRUCKS LEAVE THE SITE. MUD AND DEBRIS ARE TO BE KEPT OFF STREETS AND OUT OF INLETS, DITCHES, ETC.
27. FUEL TANKS SHALL NOT BE STORED ON THE RIGHT-OF-WAY OVERNIGHT. VEHICLES TRANSPORTING FUEL, CHEMICALS, FERTILIZERS, ETC. ONTO RIGHT-OF-WAY SHALL NOT BE LEFT UNATTENDED.
28. THE APPLICANT OR ENGINEER OF RECORD SHALL PROMPTLY NOTIFY ALDOT OF ANY PERCEIVED CONFLICTS, AMBIGUOUS ITEMS OR DEFICIENCIES IN THE PLANS, SPECIFICATIONS, GENERAL NOTES OR RELATED CONTRACT DOCUMENTS.
29. FOR WORK WITHIN INTERSTATE ROW, ALL INGRESS AND EGRESS TO THE WORK SITE SHALL BE FROM APPLICANT'S PROPERTY. NO ACCESS SHALL BE GAINED FROM THE INTERSTATE ROW. EQUIPMENT AND MATERIALS SHALL NOT BE STORED ON INTERSTATE ROW.
30. PROJECT IS LOCATED ON STATE ROUTE 193 AT MILE POST 7.49 IN MOBILE COUNTY, ALABAMA. THE SPEED LIMIT AT THIS LOCATION IS 55 M.P.H. STOPPING SITE DISTANCE AT THIS RELATIVELY FLAT LOCATION IS GREATER THAN 1500 FT IN EITHER DIRECTION.
31. IS DRAINAGE/RUNOFF FROM THIS SITE DIRECTED ONTO STATE ROW? (CIRCLE) YES OR NO / ENGINEER'S INITIALS: JGC
32. ARE UTILITY CONFLICTS PRESENT OR IS UTILITY RELOCATION REQUIRED FOR THIS PROJECT TO MEET SPECIFICATIONS? (CIRCLE) YES OR NO / ENGINEER'S INITIALS: JGC
33. SHALL MINIMUM COVER OVER UTILITIES BE MAINTAINED UPON COMPLETION OF WORK (CIRCLE) YES OR NO / ENGINEER'S INITIALS: JGC
34. THE LEGAL PERMIT APPLICANT IS HELD RESPONSIBLE AND LIABLE FOR ALL DAMAGES, ACTIONS, OR RESPONSIBILITIES OF THEIR APPOINTED CONTRACTORS, ASSIGNS, OR APPOINTEES.
35. ALL DRAINAGE ONSITE WILL BE ROUTED TO MOBILE BAY. NO DRAINAGE WILL BE ROUTED TO STATE ROUTE 193 RIGHT-OF-WAY.

(NOT FOR CONSTRUCTION)

MOBILE COUNTY, BAYFRONT PARK RESTORATION AND IMPROVEMENTS

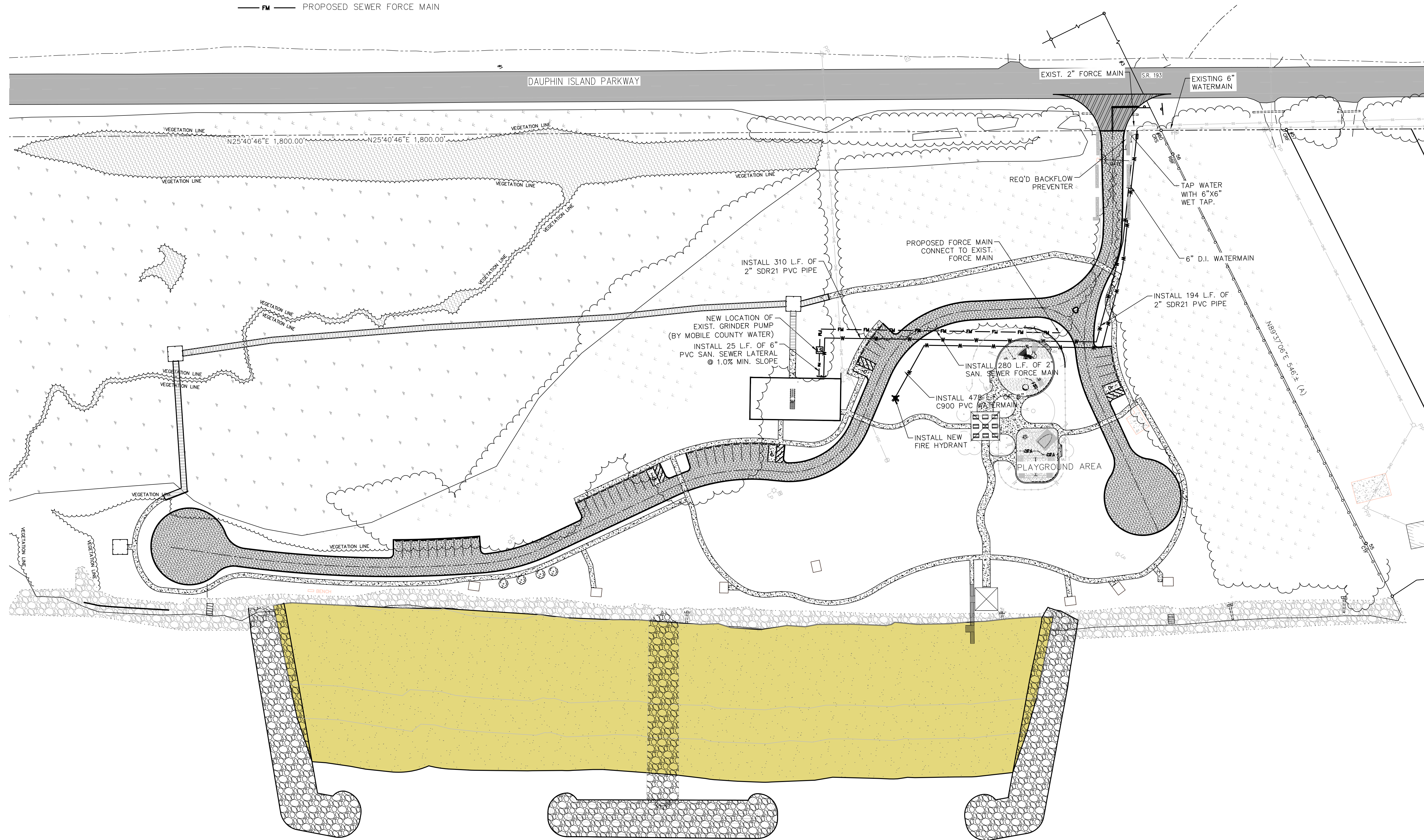
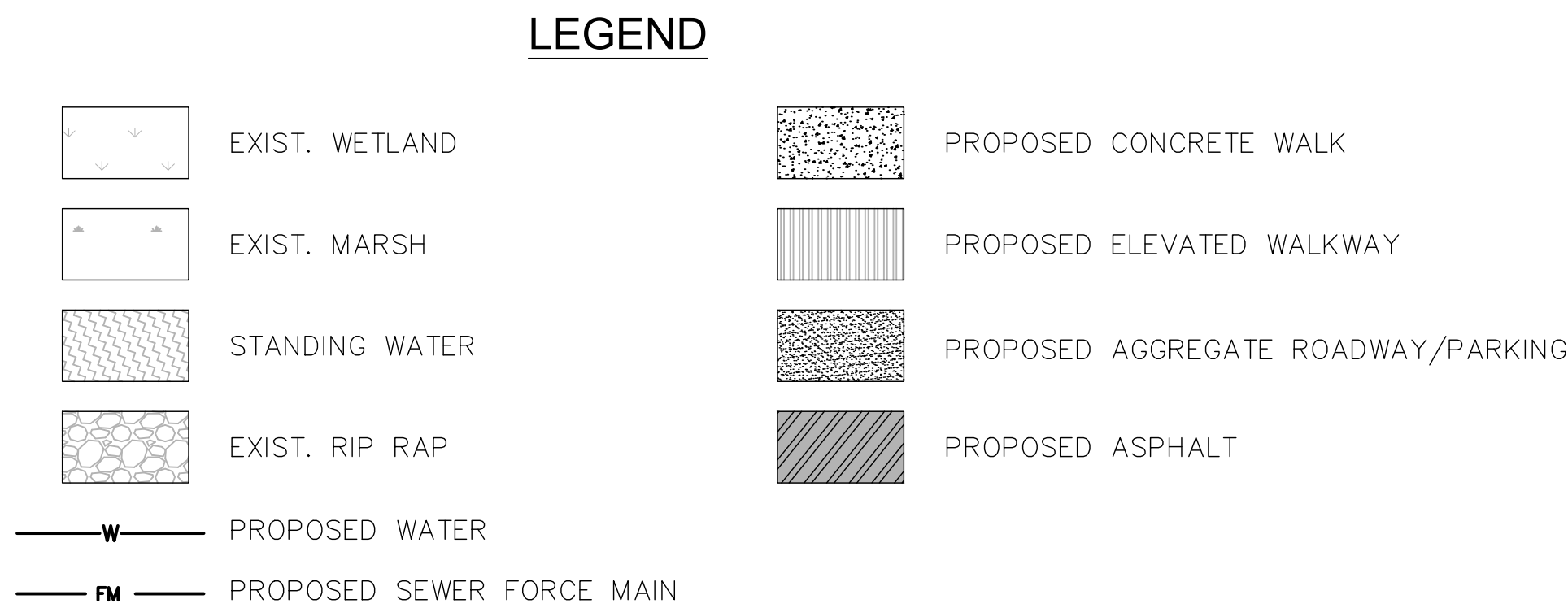
ALDOT PERMIT PLAN

MOBILE, ALABAMA



851 E. I-65 Service Road South, Suite 1000
Mobile, Alabama 36606
TEL. (251) 471-2000
FAX (251) 471-5907

Approved By _____



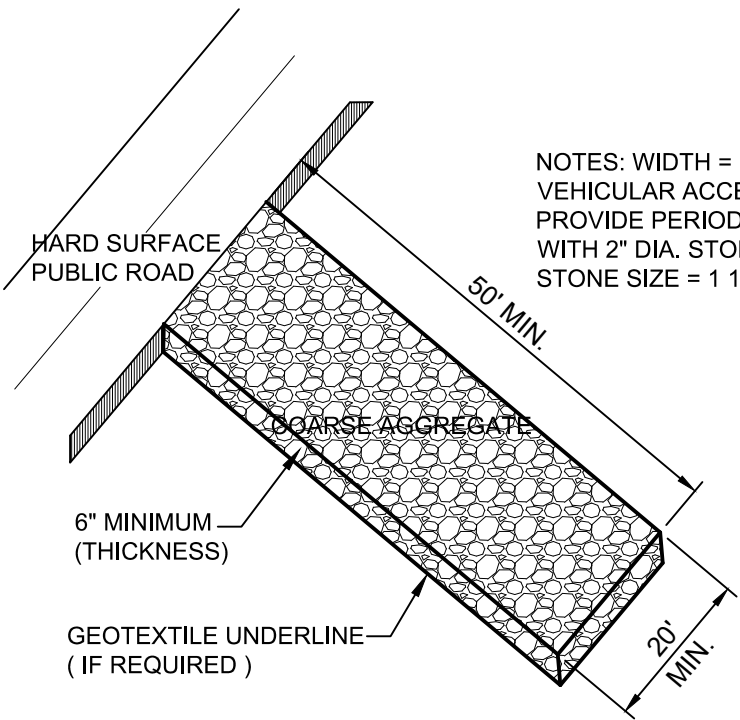
MOBILE, ALABAMA



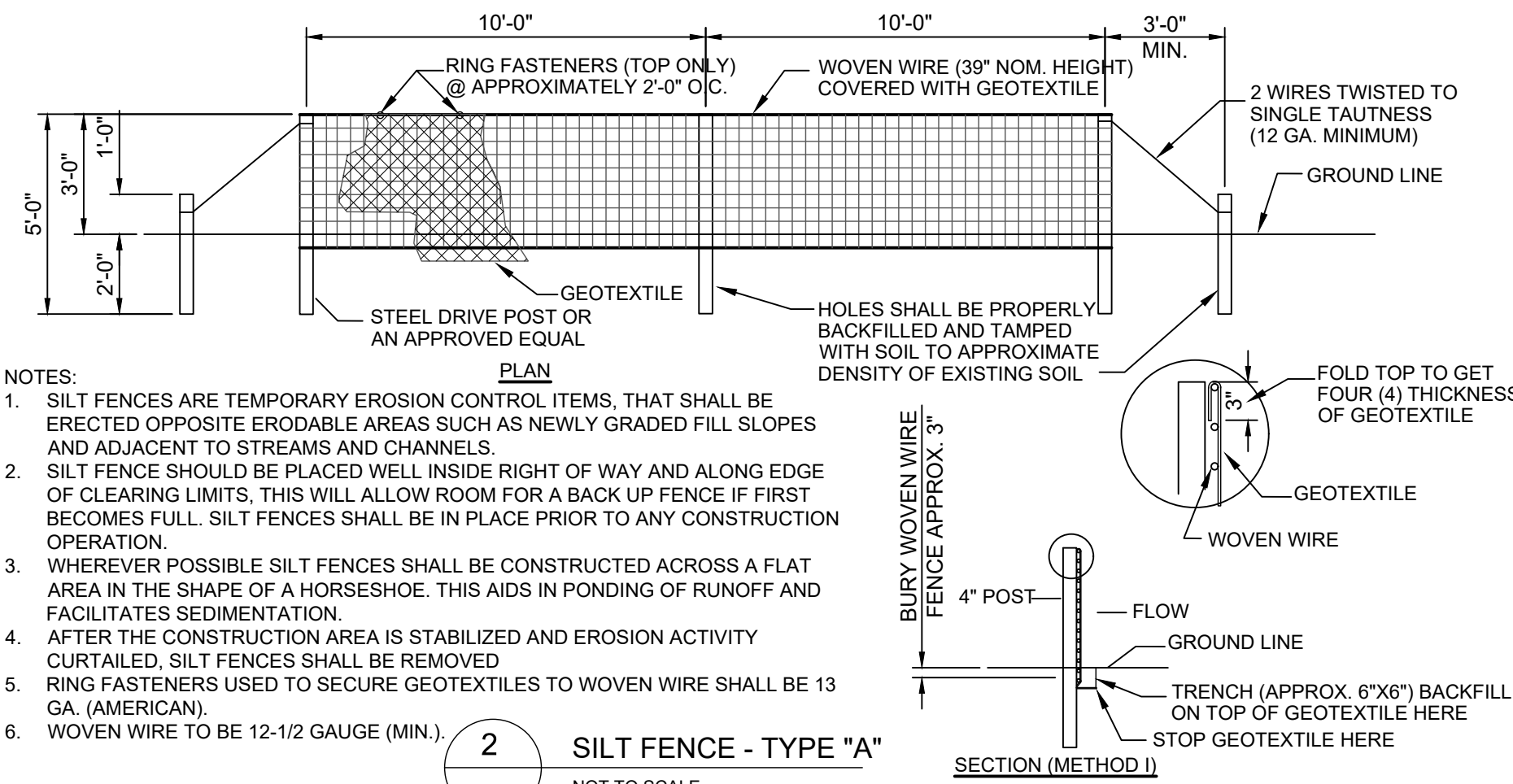
Approved By

[illegible]

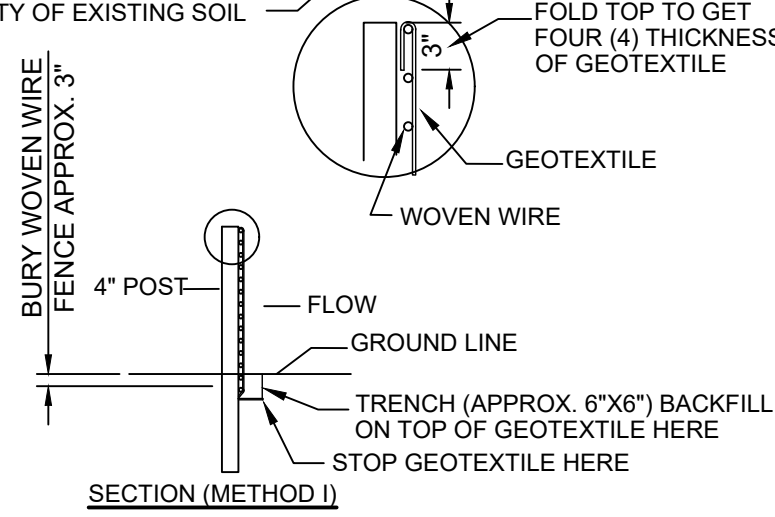
C5



NOTES: WIDTH = FULL WIDTH OF
VEHICULAR ACCESS, 20' MINIMUM.
PROVIDE PERIODIC TOP DRESSING
WITH 2" DIA. STONE, AS NECESSARY.
STONE SIZE = 1 1/2" TO 3 1/2" DIA.



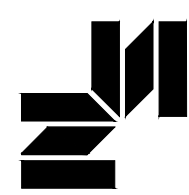
- NOTES:
1. SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS, THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
2. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT OF WAY AND LONG ENOUGH OF CLEARING LIMITS, THIS WILL ALLOW ROOM FOR A BACK UP FENCE IF FIRST BECOMES FULL, SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION.
3. WHEREVER POSSIBLE SILT FENCES SHALL BE CONSTRUCTED ACROSS A FLAT AREA IN THE SHAPE OF A HORSESHOE. THIS AIDS IN PONDING OF RUNOFF AND FILLING OF SEDIMENTATION.
4. AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED
5. RING FASTENERS USED TO SECURE GEOTEXTILES TO WOVEN WIRE SHALL BE 13 GA. (AMERICAN).
6. WOVEN WIRE TO BE 12-1/2 GAUGE (MIN.).
- 2
- SILT FENCE TYPE



MOBILE COUNTY, BAYFRONT PARK RESTORATION AND IMPROVEMENTS

EROSION CONTROL PLAN

MOBILE, ALABAMA



Solutions you can build upon

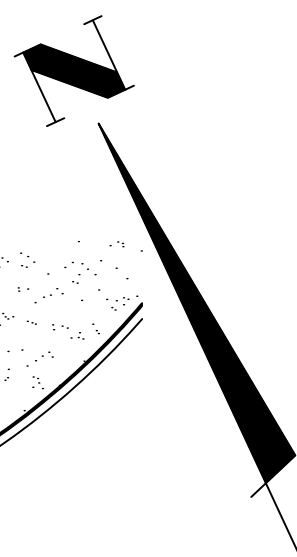
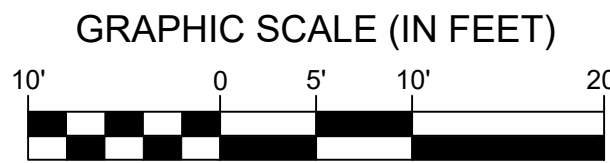
851 E. I-65 Service Road South, Suite 1000
Mobile, Alabama 36606
TEL. (251) 471-2000
FAX (251) 471-5907

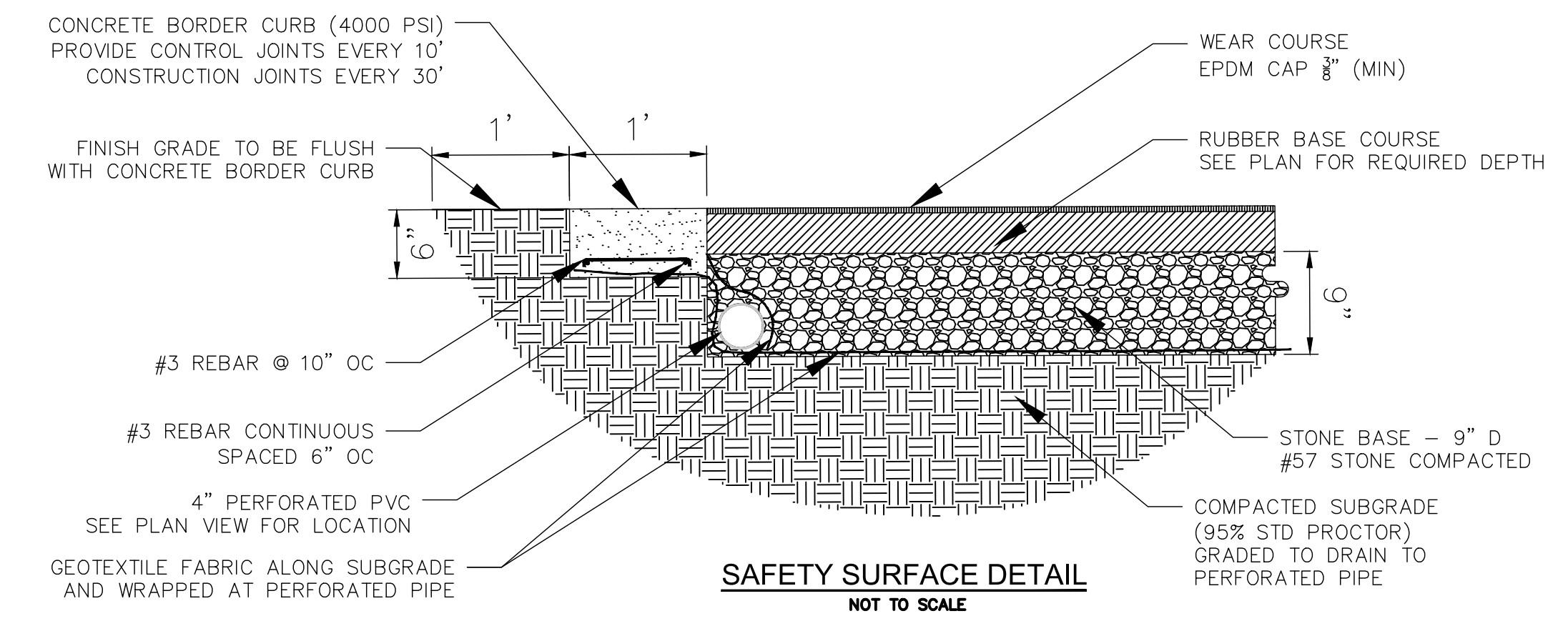
Approved By

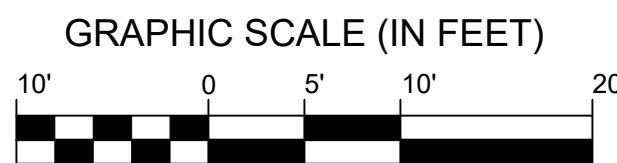
[illegible]

C6

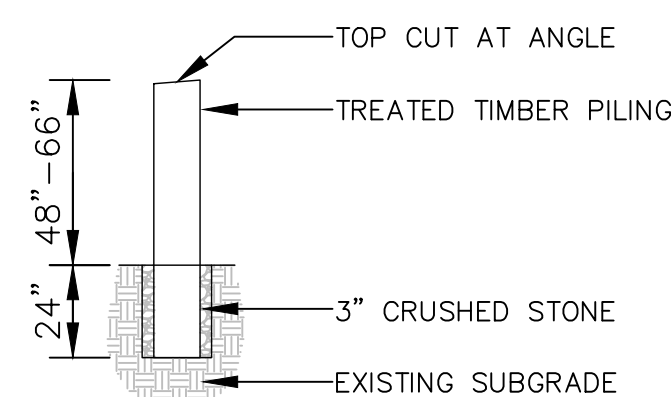
PLOT INFORMATION:
April 30, 2020
11:29 AM
Y:\Projects\001\0000\001450014805 Bayfront Park - Mobile Co\FINAL DESIGN\Engineering\06 ECP.dwg - C6







PILING WALL / PLAY AREA FENCING DETAIL - PLAN VIEW



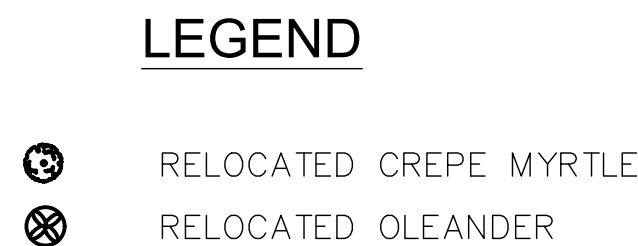
PILING WALL / PLAY AREA FENCING DETAIL - ELEVATION VIEW

PILING INSTALLATION DETAIL

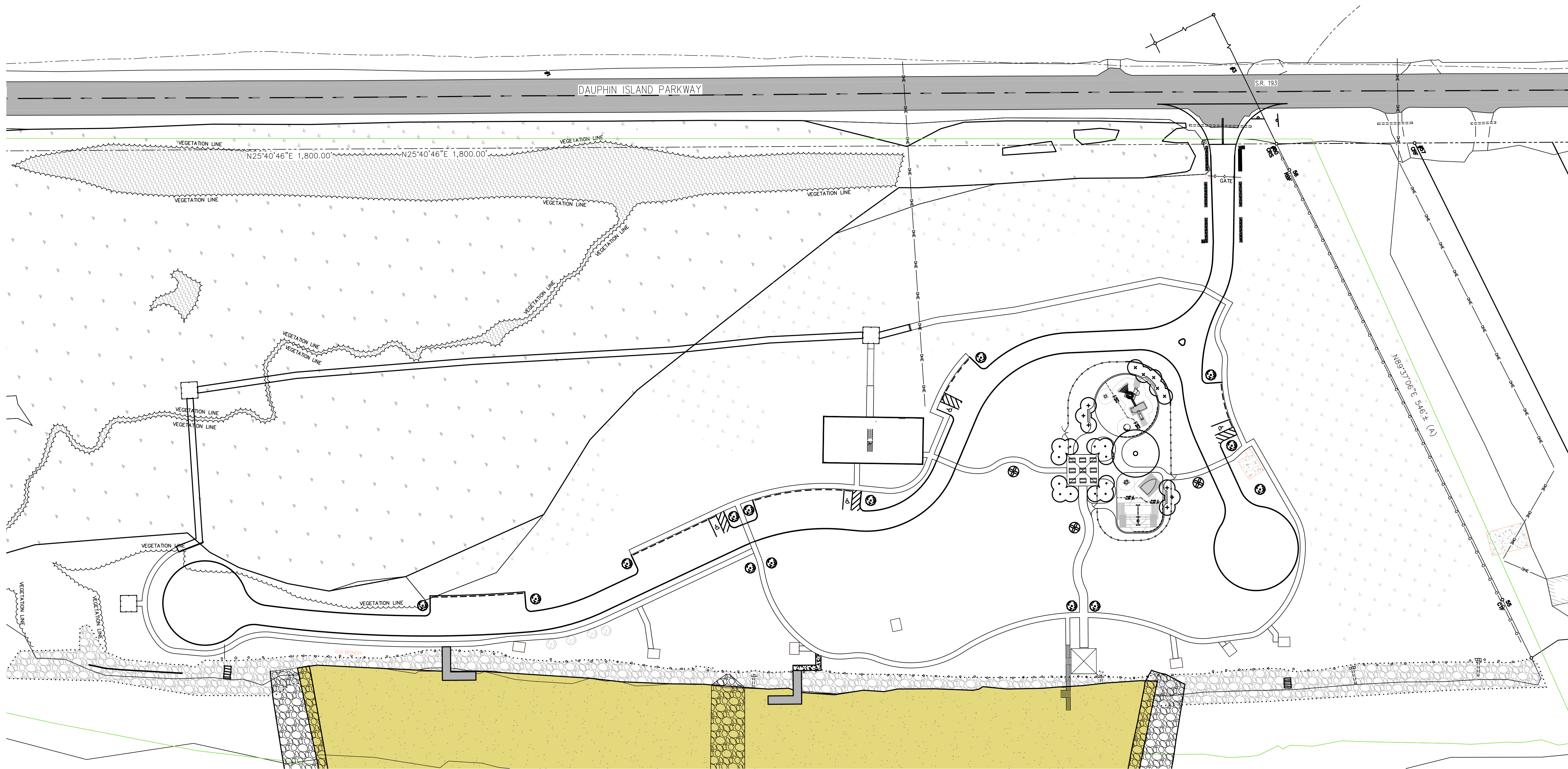
- NOTES:
1. PILING WALL SHALL BE A RANDOM COMBINATION OF 6" D, 8" D, 10" D AND 12" D RECYCLED TREATED PILING.
 2. PILING HEIGHT SHALL BE A RANDOM COMBINATION OF 48" (MIN) - 66" (MAX).



NOT TO SCALE



1. ALL TREE TRANSPLANT AREAS (EXISTING AND PROPOSED LOCATIONS) SHALL BE INSPECTED FOR POSSIBLE HAZARDS PRIOR TO BEGINNING THE TRANSPLANTING PROCEDURE. THE LOCATION OF UTILITIES AND OTHER OBSTRUCTIONS BOTH BELOW AND ABOVE GROUND SHALL BE TAKEN INTO CONSIDERATION PRIOR TO TRANSPLANTING ANY TREES.
2. ALL TOOLS AND EQUIPMENT SHALL BE APPROPRIATE TO THE OPERATIONS AND PREPARED IN ADVANCE. DIGGING AND ROOT PRUNING TOOLS SHALL BE SHARP AND CLEAN IN ORDER TO CUT WITHOUT BREAKING, CRUSHING OR TEARING ROOTS. MECHANICAL DIGGING AND ROOT PRUNING EQUIPMENT SHALL BE OPERATED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS TO MINIMIZE ROOT DAMAGE.
3. TRANSPLANTING WILL ONLY BE ALLOWED DURING THE TREES' DORMANT PERIOD (APPROX. DEC 1 - FEB 28) AND AS APPROVED BY THE PROJECT LANDSCAPE ARCHITECT.
4. A 32"-44" ROOT BALL DIAMETER IS REQUIRED (USING MECHANICAL TREE SPADE OR HAND DIGGING). IF HAND DIGGING IS PREFERRED, A STEP-BY-STEP PROCESS SHALL BE SUBMITTED TO THE PROJECT LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO ANY TRANSPLANT PROCEDURES.
5. THOROUGHLY WATER THE ROOT BALL AREA 2 DAYS PRIOR TO TRANSPLANT TO ENSURE THE SOIL WITHIN THE ROOT BALL REMAINS AS INTACT AS POSSIBLE.
6. PLACE THE TREE IN ITS NEW LOCATION WITH THE DEPTHS, SURFACE MULCH, AND GUYING REQUIRED IN THE TREE PLANTING DETAIL (SHEET L4).
7. APPLY, OPERATED AND/OR MAINTAIN A TEMPORARY IRRIGATION SYSTEM OR SLOW RELEASE IRRIGATION BAGS TO ENSURE ADEQUATE WATER DURING THE RE-ESTABLISHMENT PERIOD.
8. CONTRACTOR SHALL PROVIDE ALL MAINTENANCE FOR TRANSPLANTED TREES THROUGHOUT THE RE-ESTABLISHMENT PERIOD (FROM COMPLETED TRANSPLANT - NOV 1) AND COVER WITH A 1-YEAR WARRANTY (RE-ESTABLISHMENT PERIOD INCLUDED IN THE 1-YEAR WARRANTY). IF A TREE DOES NOT SURVIVE THROUGH THE 1-YEAR WARRANTY, THE CONTRACTOR SHALL REPLACE AS FOLLOWS:
 - a. 60-GALLON 'NATCHEZ' CRAPE MYRTLE
 - b. 45-GALLON OLEANDER



(NOT FOR CONSTRUCTION)

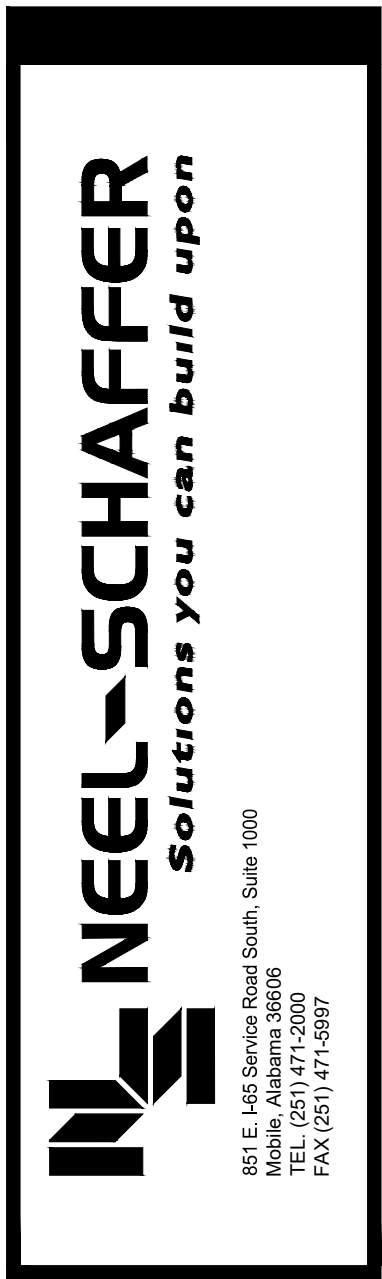
MOBILE COUNTY, BAYFRONT PARK RESTORATION AND IMPROVEMENTS

TREE RELOCATION PLAN

MOBILE, ALABAMA

[illegible]

L6



Approved By

GENERAL:

1. GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2012 EDITION.
2. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN ALL CONTRACT DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO BIDDING OF ANY DISCREPANCY BETWEEN PLANS, DETAILS, AND/OR SPECIFICATIONS.
4. DESIGN LOADS:
- A. DEAD LOADS:
SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR THE CONSTRUCTION MATERIALS USED IN THE PROJECT. ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF THE CAPACITY OF THE STRUCTURE.
- B. LIVE LOADS (psf):
ROOF (REDUCIBLE).....20
BOARDWALK.....60
PAVILION FLOOR.....100
- C. WIND LOADS:
BASIC WIND SPEED (3 SECOND GUST).....150 MPH
BUILDING CATEGORY.....1
WIND IMPORTANCE FACTOR.....1.0
EXPOSURE CATEGORY.....C
INTERNAL PRESSURE COEFFICIENT (Gcpi).....0.00
DESIGN WIND PRESSURE FOR COMPONENTS & CLADDING (psf):
ROOF.....±41.6
- D. SEISMIC LOADS:
EARTHQUAKE IMPORTANCE FACTOR (Ie).....1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS: (Ss).....0.089
(S1).....0.056
- SITE CLASS (ASSUMED).....0
SPECTRAL RESPONSE COEFFICIENTS: (SDS).....0.095
(SD1).....0.089
- SEISMIC DESIGN CATEGORY.....B
BASIC SEISMIC-FORCE RESISTING SYSTEM:
NOT DETAILED FOR SEISMIC
- DESIGN BASE SHEAR (kips).....VARIES
SEISMIC RESPONSE COEFFICIENT (Cs).....0.063
RESPONSE MODIFICATION COEFFICIENT (R).....1.5
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ARE NOTED.
6. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. VISUAL OBSERVATIONS BY THE STRUCTURAL ENGINEER'S OFFICE DOES NOT REPLACE REQUIRED INSPECTIONS OR TESTING PERFORMED BY THE TESTING AGENCY OR SPECIAL INSPECTOR.
7. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION MATERIALS ARE SPREAD OUT ON FRAMED FLOORS/ROOF SUCH THAT THE DESIGN LOADS LISTED ABOVE ARE NOT EXCEEDED.

SITE PREPARATION:

1. CONTRACTOR TO INVESTIGATE ACTUAL LOCATIONS OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATING, AND ADVISE ENGINEER OF ANY VARIATIONS. ALL EXCAVATIONS NEAR THESE LINES TO BE CARRIED OUT WITH EXTREME CAUTION.
2. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT BY GEOTECHNICAL ENGINEERING TESTING, INC FROM THE OWNER AND FOLLOW ALL REQUIREMENTS.
3. THE OWNER SHALL HIRE A GEOTECHNICAL ENGINEER TO REVIEW THE FOUNDATION BEARING SURFACE AND ENSURE THAT THE ALLOWABLE SOIL BEARING LISTED ABOVE THAT WAS USED IN THE STRUCTURAL DESIGN IS MET.

GRATING:

1. ALL GRATING SHALL BE BEDFORD PLASTICS 3/4" SQUARE GRATING THAT IS 1" THICK OR APPROVED EQUAL UNLESS NOTED OTHERWISE.
2. EACH SECTION OF GRATING SHALL BE REMOVABLE AND FURNISHED WITH A MINIMUM OF TWO FASTENERS FOR EACH SUPPORT MEMBER.
3. GRATING FASTENERS SHALL BE WOOD SCREWS AND SADDLE CLIPS SUPPLIED BY THE GRATING MANUFACTURER.

WOOD PILING:

1. CONTRACTOR SHALL REFERENCE ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION LATEST EDITION SECTION 505 FOR PILING SPECIFICATIONS.
2. ALL PILING SHALL BE DRIVEN TO DEPTHS CALLED FOR ON THE PLANS.
3. ALL WOOD PILINGS SHALL BE COMMERCIALY AVAILABLE SOUTHERN YELLOW PINE 10" BUTT POLES WITH 1" DIAMETER TAPER PER 10'. POLES SHALL BE TREATED WITH A MINIMUM "CCA" TREATMENT OF 0.60 PCF.
4. A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING PILE DRIVING TO DEVELOP AND MAINTAIN PILE DRIVING RECORDS AND VERIFY PILE CAPACITIES.
5. PILING CAPACITIES HAVE BEEN ESTABLISHED AND CAN BE FOUND IN THE GEOTECHNICAL REPORT.

CONCRETE:

1. CONCRETE DESIGN CODE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - ACI 318-11.
2. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS, CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
3. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATING STEEL SHALL BE GRADE 60, DEFORMED BARS, CONFORMING TO ASTM A615.
4. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-SP-66-LATEST EDITION).
5. ALL BAR SPLICES SHALL BE CLASS 'B' TENSION SPLICES, AS SPECIFIED IN ACI 318-11, UNLESS OTHERWISE NOTED. REINFORCEMENT SHALL NOT BE WELDED UNLESS APPROVED BY THE ENGINEER.

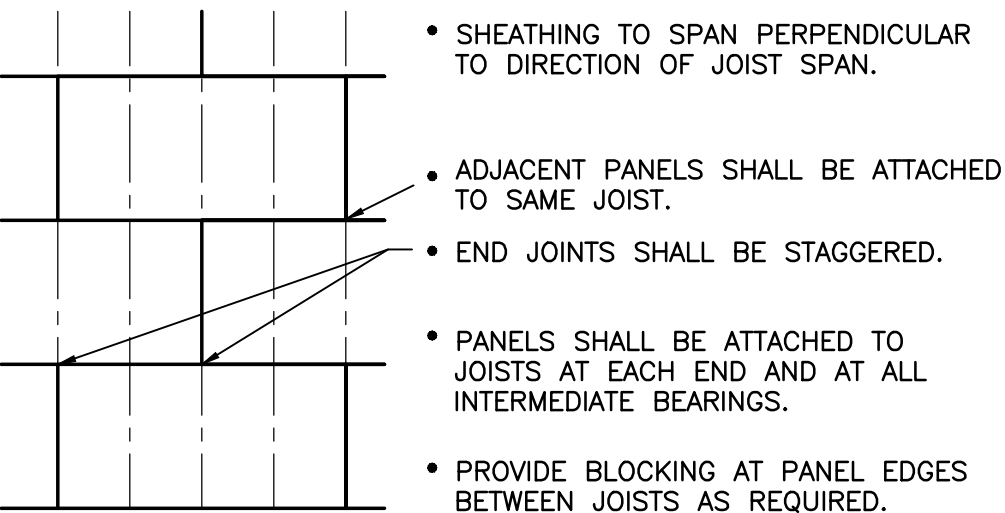
TENSION LAP SPlice LENGTHS		
BAR SIZE	fc=4000 psi	
	TOP BARS	OTHER BARS
#3	25"	19"
#4	33"	25"
#5	41"	31"
#6	49"	37"
#7	71"	54"
#8	81"	62"
#9	91"	70"
#10	102"	79"
#11	114"	87"

NOTES:
1. ABOVE CHART IS APPLICABLE TO GRADE 60 REINFORCEMENT.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CAST BELOW THE BAR.
3. WHEN BAR COVER IS EQUAL TO OR LESS THAN THE BAR DIAMETER OR THE BAR SPACING IS TWICE THE BAR DIAMETER OR LESS, SPlice LENGTHS SHALL BE INCREASED BY 100%.

6. ANCHOR BOLTS SHALL BE A307 UNLESS NOTED OTHERWISE. ALL BOLTS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE GALVANIZED OR STAINLESS STEEL.
7. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4"x45 DEGREE CHAMFER, UNLESS NOTED OTHERWISE.
8. UNLESS OTHERWISE NOTED, REINFORCE ALL CONCRETE SLABS ON GRADE WITH 4 x 4 - W2.9 x W2.9 WELDED WIRE FABRIC AT MID-DEPTH OF SLAB.
9. WELDED WIRE FABRIC REINFORCING SHALL LAP TWO FULL MESHES AND BE SECURELY WIRED AT EACH SIDE AND END.
10. CONTRACTOR TO REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS.
11. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL OPENINGS WITH THE MECHANICAL AND ELECTRICAL DETAILS AND SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITY LINES THROUGHOUT BUILDING.
12. PROVIDE CONCRETE COVERAGE OF REINFORCEMENT AS FOLLOWS: (PER ACI 318)
FOOTINGS: 3" BOTTOM & SIDES.....1 1/2" TOP
WALLS:.....1 1/2"
PEDESTALS:.....1 1/2" CLEAR OF TIES
13. PROVIDE CORNER BARS TO SPlice WITH ALL CONTINUOUS REINFORCEMENT.
14. ALL CONCRETE SHALL BE CURED USING WET METHODS OR CURING COMPOUND PER ACI 301. COMPLY WITH ACI 301 FOR MIXING, TRANSPORTING, FORMING, PLACING, AND CURING CONCRETE.
15. MAXIMUM SPACING OF CONTROL JOINTS IN SLABS SHALL BE 15'-0" EACH WAY UNLESS SHOWN OTHERWISE ON THE PLANS.
16. ALL EPOXY SHALL CONFORM TO THE REQUIREMENTS OF HILTI HY 200 OR APPROVED EQUAL.
17. CONCRETE MIX REQUIREMENTS:
-PORTLAND CEMENT: ASTM 150, TYPE 1
-FLY ASH: CLASS F OR C (25% OF CEMENTITIOUS MATERIALS MAXIMUM)
-AGGREGATE: ASTM 33
-MAXIMUM W/C/ RATIO: 0.48
-MINIMUM CEMENTITIOUS MATERIAL: 520LB/CU. YD.
-SLUMP LIMIT: 4" ±1", 8" WITH VERIFIED SLUMP OF 2 TO 4 INCHES
BEFORE ADDING HIGH RANGE WATER REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE, ±1 INCH.
-AIR CONTENT: NOT TO EXCEED 3%.

WOOD FRAMING NOTES:

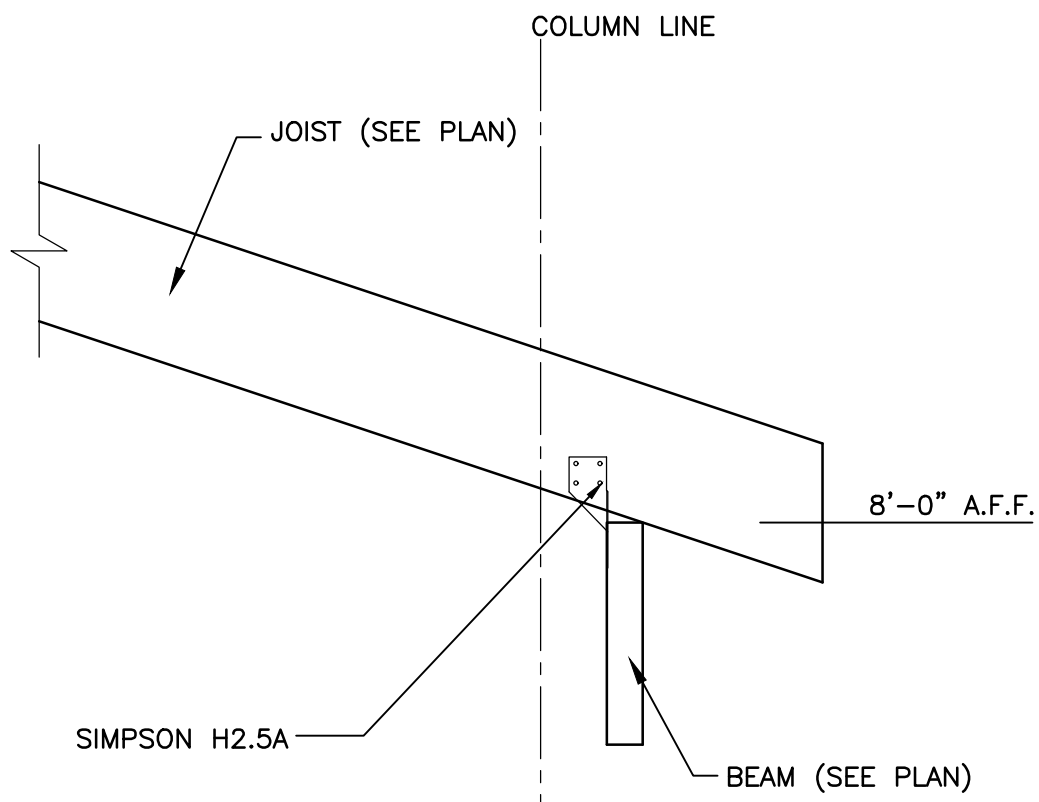
1. WOOD DESIGN CODE: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION- NDS-12
2. STRUCTURAL LUMBER:
A. ALL STRUCTURAL LUMBER SHALL BE SOUTHERN PINE NO. 2 (MOISTURE CONTENT 19% OR LESS), OR STRONGER.
- B. ALL LUMBER OR TIMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE, OR EARTH SHALL BE PRESSURE TREATED.
- C. FASTEN 2 PLY AND 3 PLY BEAMS AND COLUMNS TOGETHER USING 2 ROWS OF 16D NAILS STAGGERED AT 12" ON CENTER. PROVIDE 1/2" DIAMETER BOLTS SPACED AT 16" WHEN MORE THAN 3 PLIES ARE USED.
- D. ALL BOLTS SHALL CONFORM TO ASTM A307. ALL NAILS, SPIKES, STAPLES, BOLTS, NUTS, WASHERS, ETC. THAT ARE IN CONTACT WITH TREATED WOOD SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- E. ALL STEEL HANGERS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED WITH 1.85 OZ. ZINC PER SQUARE FOOT MINIMUM (SIMPSON ZMAX-185).
3. PLYWOOD SHEATHING:
- A. PLYWOOD ROOF SHEATHING SHALL BE 5/8" APA RATED, EXPOSURE 1 SHEATHING. MINIMUM SPAN RATING 40/20. FACE GRAIN TO BE 90 DEGREES TO THE SUPPORTS. FASTEN WITH 10D COMMON NAILS AT 6" AT EDGES AND 12" AT INTERIOR SUPPORTS. STAGGER PERPENDICULAR TO JOISTS.
- B. ROOF SHEATHING SHALL BE INSTALLED AS INDICATED BELOW:
* SHEATHING TO SPAN PERPENDICULAR TO DIRECTION OF JOIST SPAN.
* ADJACENT PANELS SHALL BE ATTACHED TO SAME JOIST.
* END JOINTS SHALL BE STAGGERED.
* PANELS SHALL BE ATTACHED TO JOISTS AT EACH END AND AT ALL INTERMEDIATE BEARINGS.
* PROVIDE BLOCKING AT PANEL EDGES BETWEEN JOISTS AS REQUIRED.



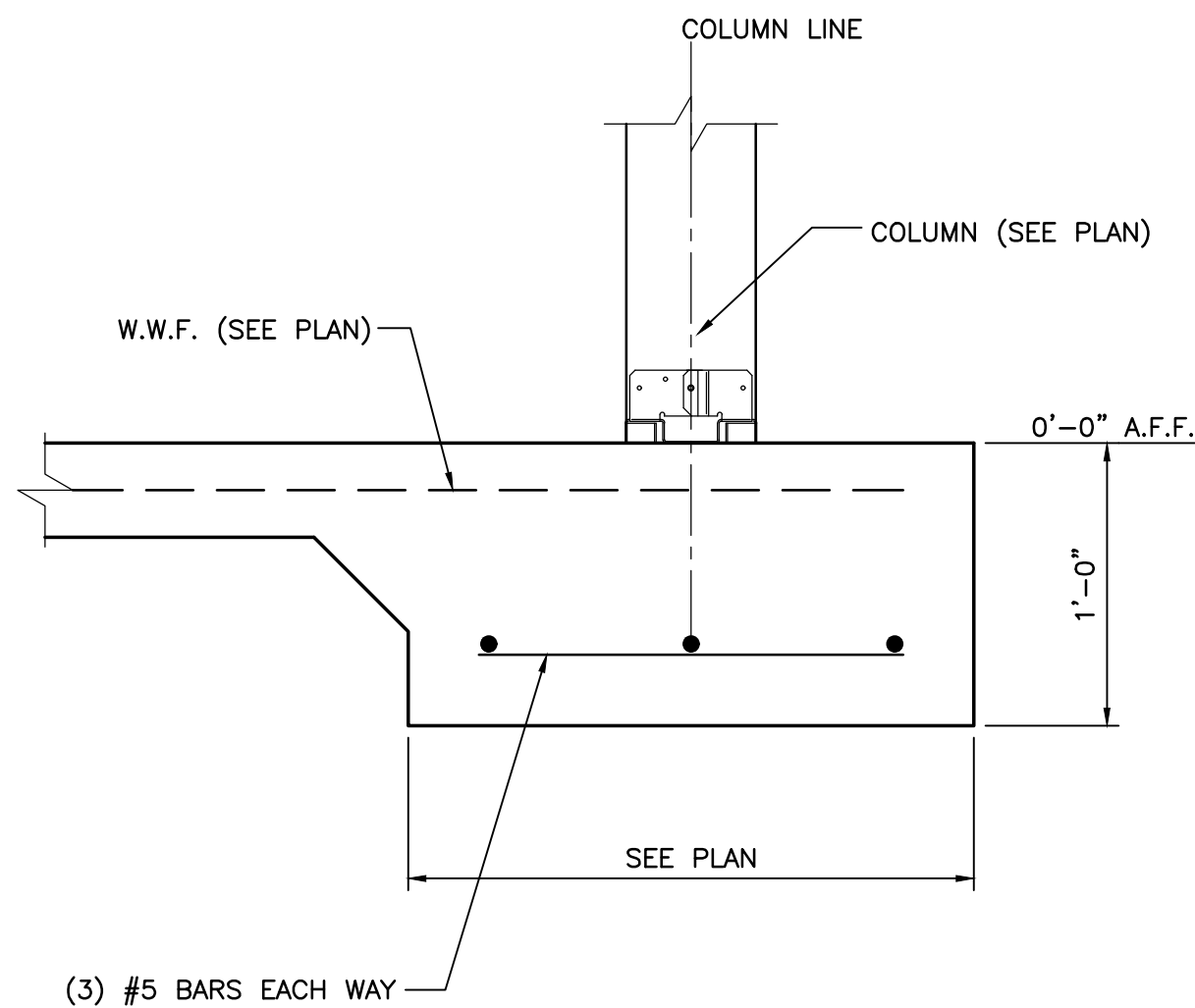
LAMINATED VENEER LUMBER MEMBERS:

- A. ALL LAMINATED VENEER LUMBER (LVls) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

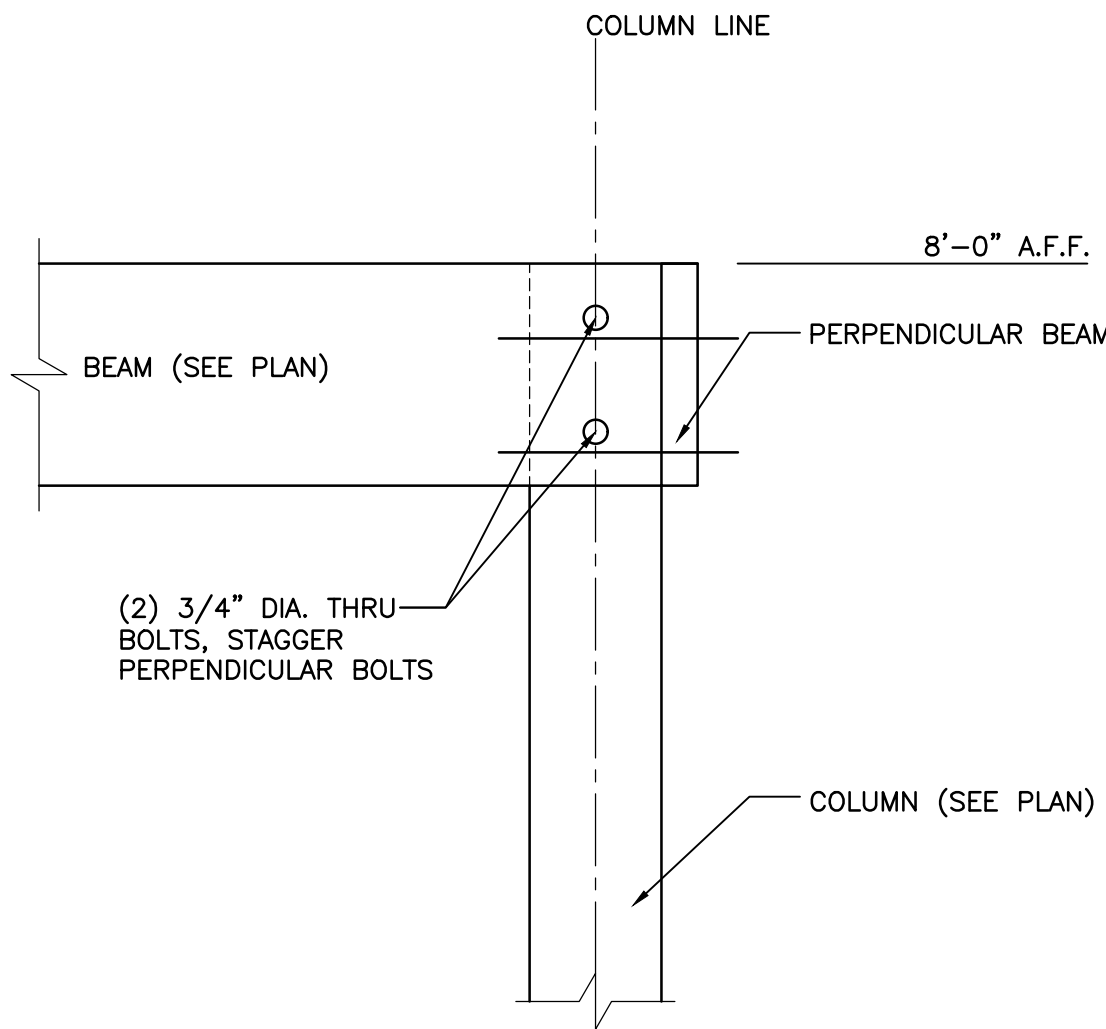
Fbx = 3100 psi, Ex = 2,000,000 psi, Fvx = 285 psi



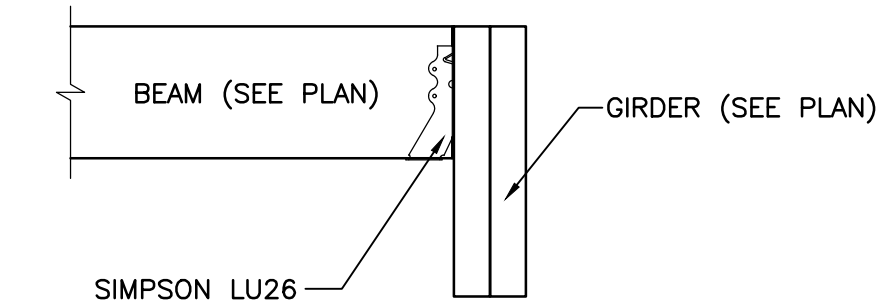
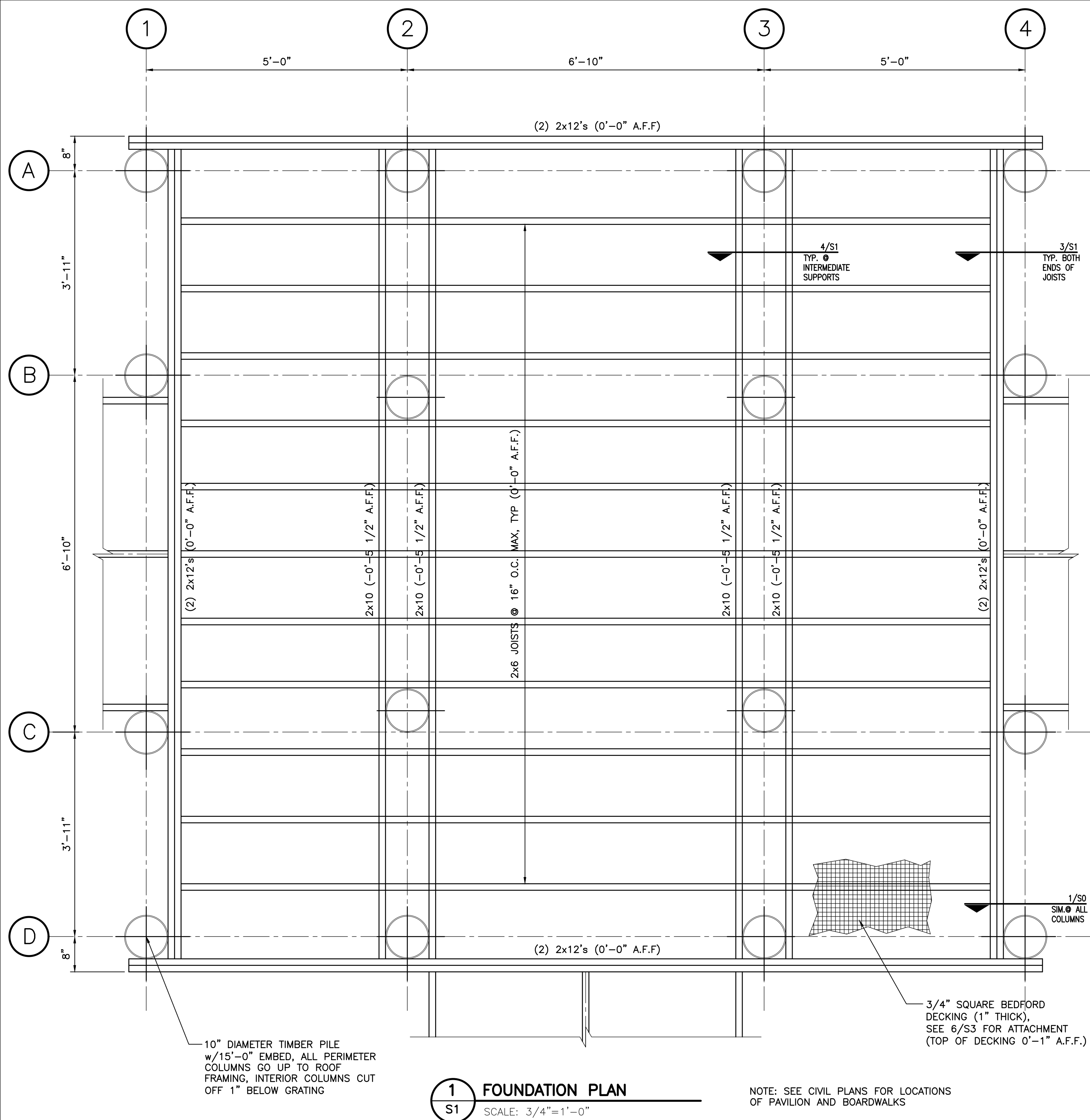
2 SECTION
SO SCALE: 3/4"=1'-0"



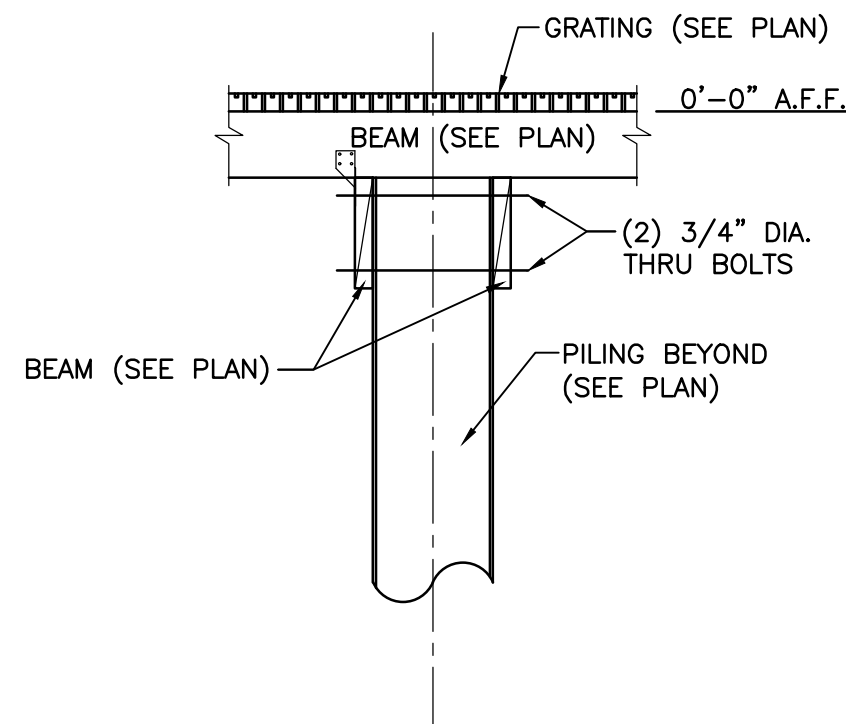
3 SECTION
SO SCALE: 3/4"=1'-0"



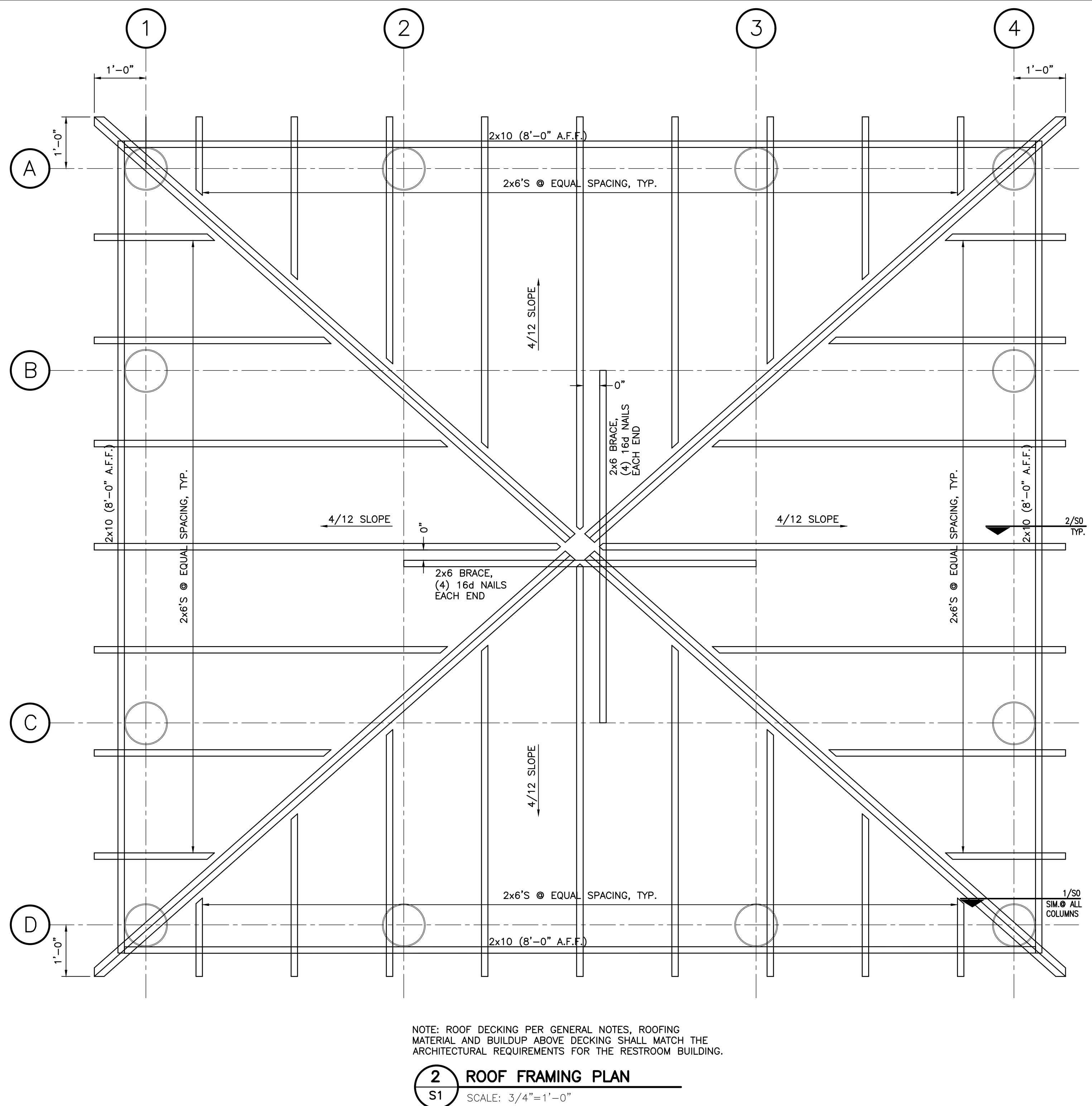
1 SECTION
SO SCALE: 3/4"=1'-0"



3 SECTION
S1 SCALE: 1 1/2"=1'-0"

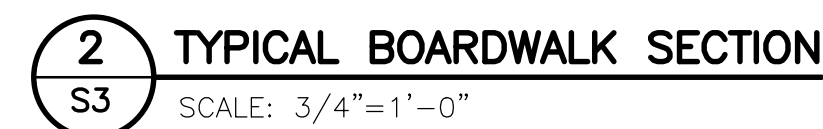
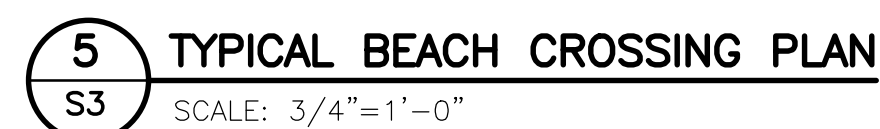
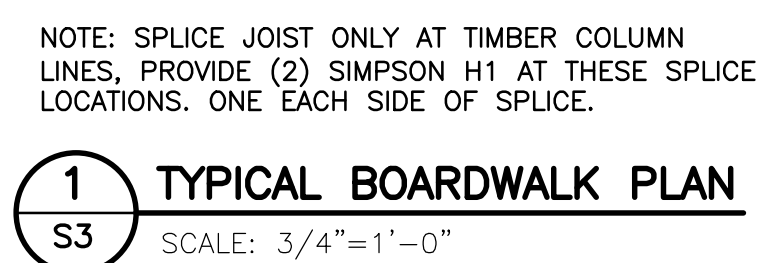


4 SECTION
S1 SCALE: 3/4"=1'-0"

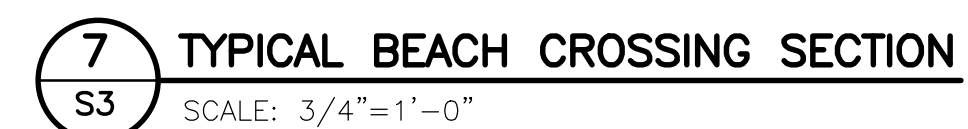


NOTE: ROOF DECKING PER GENERAL NOTES, ROOFING MATERIAL AND BUILDUP ABOVE DECKING SHALL MATCH THE ARCHITECTURAL REQUIREMENTS FOR THE RESTROOM BUILDING.





6 GRATING ATTACHMENT DETAIL
S3 SCALE: 3"=1'-0"

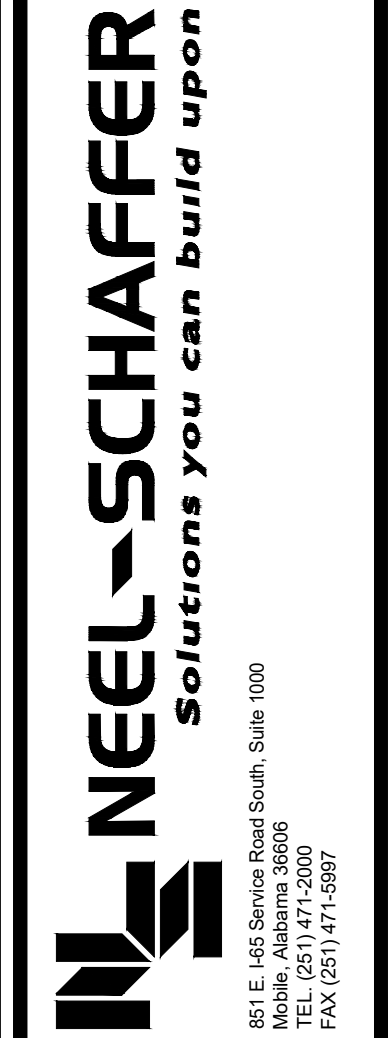


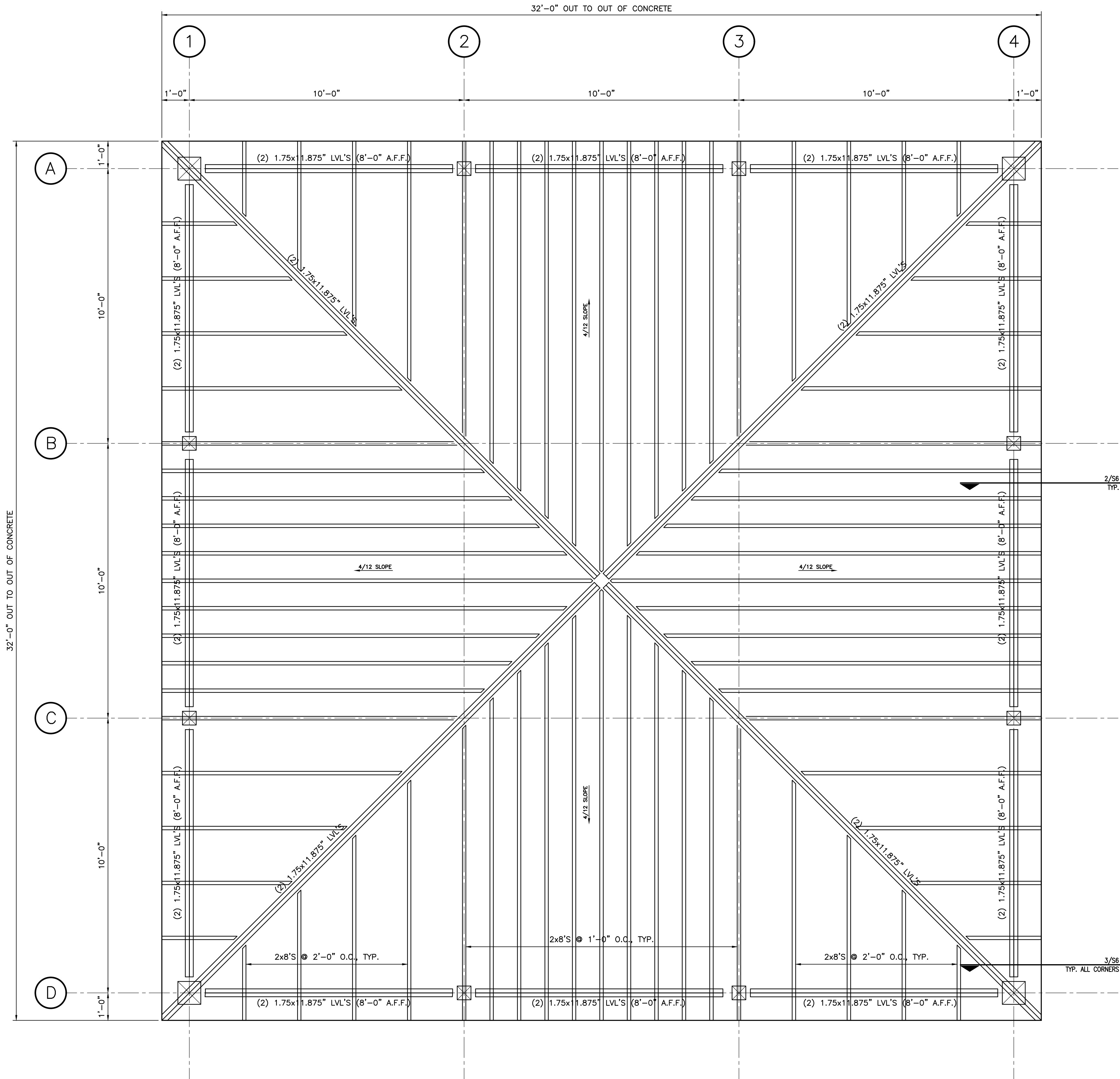
PLOT INFORMATION:
 April 30, 2020
 9:05 AM
 V:\Projects\10010000014500\14805_Bufffoot_Bark_Mobile Cell\ENVI - DES\GIS\StructuralDrawings\CAD\14805.dwg - Layout1



1 FOUNDATION PLAN

MOBILE, ALABAMA





NOTE: ROOF DECKING PER GENERAL NOTES, ROOFING MATERIAL
AND BUILDUP ABOVE DECKING SHALL MATCH THE
ARCHITECTURAL REQUIREMENTS FOR THE RESTROOM BUILDING.

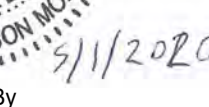
1 ROOF FRAMING PLAN
S5 SCALE: 1/2"=1'-0"

DATE	REVISION

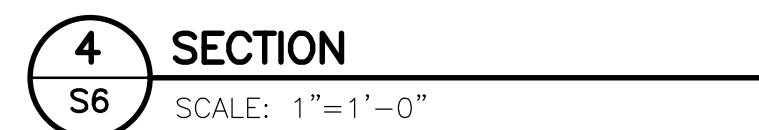
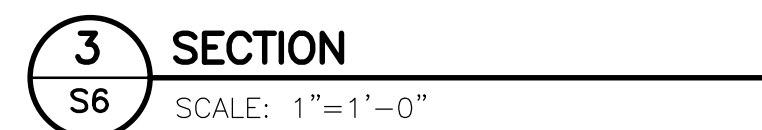
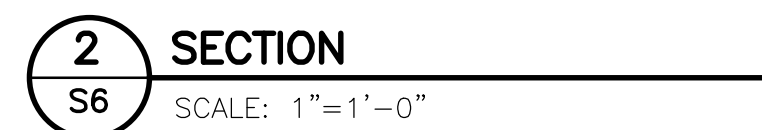
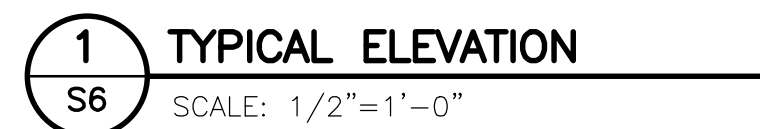
MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
PLAYGROUND SHADE SHELTER ROOF FRAMING PLAN

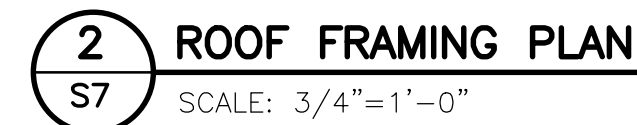
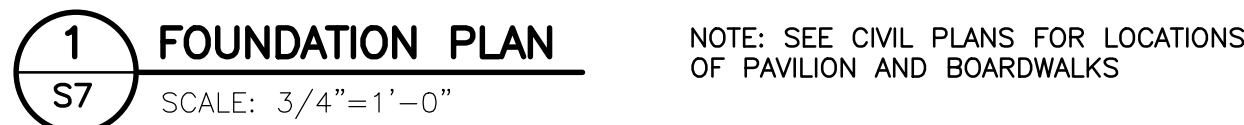
MOBILE, ALABAMA





MOBILE, ALABAMA

S6



MATCHLINE DWG. E2

(NOT FOR CONSTRUCTION)

MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
ELECTRICAL SITE PLAN
(DWG. 1 OF 2)

MOBILE, ALABAMA

[illegible]



MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
ELECTRICAL SITE PLAN
(DWG. 2 OF 2)

MOBILE, ALABAMA

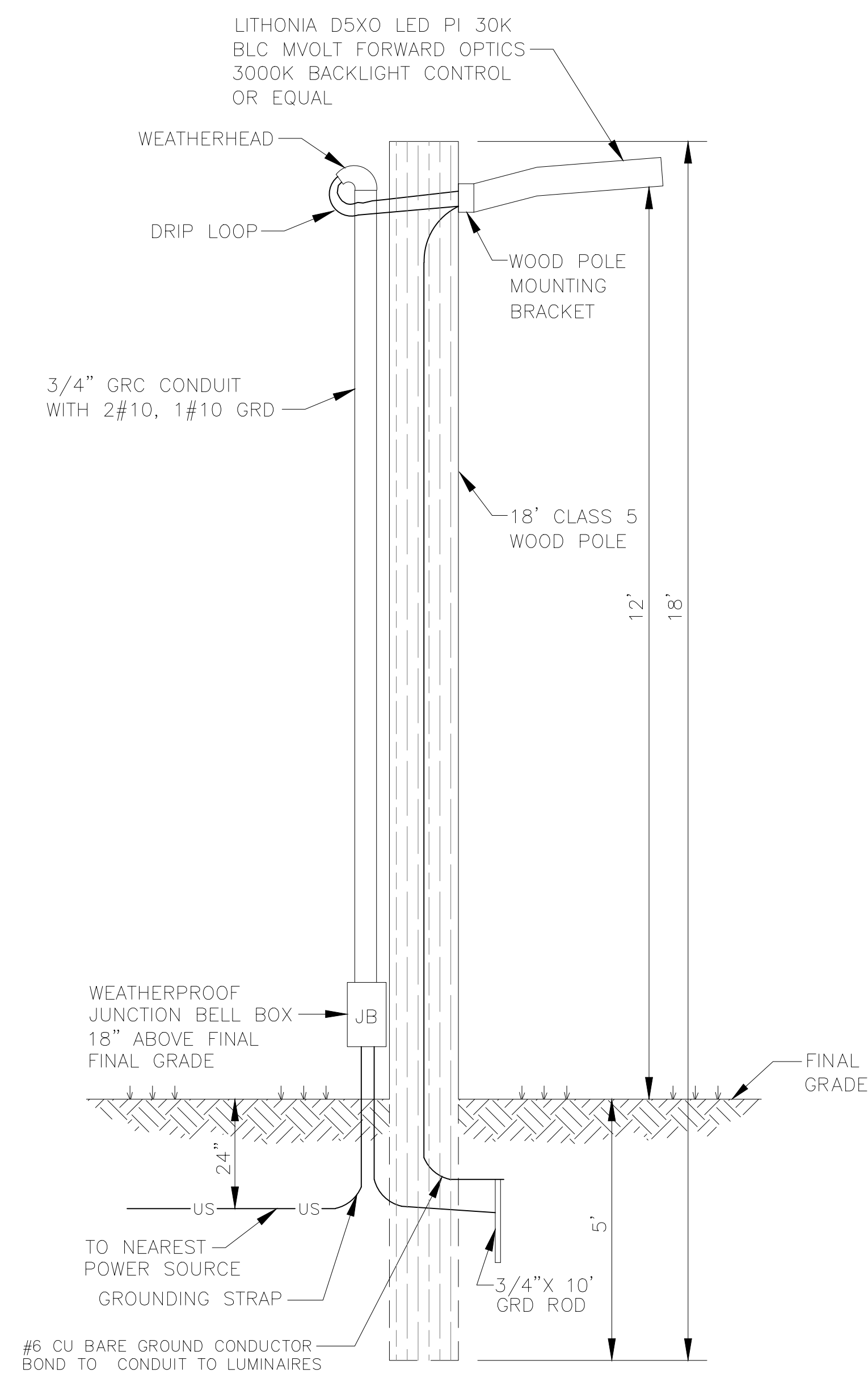


MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
ELECTRICAL DETAILS
(DWG. 1 OF 2)

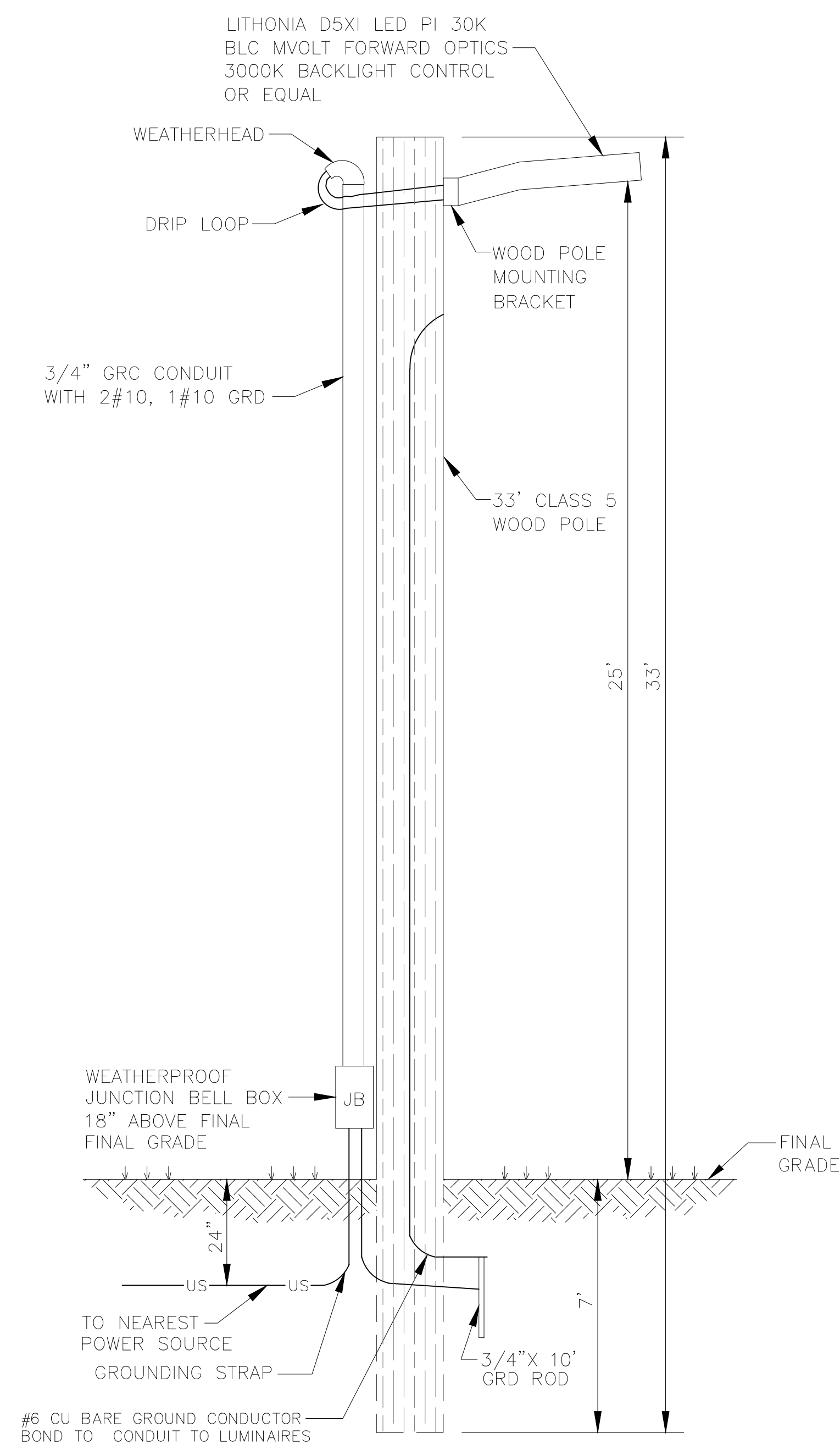
NEEL-SCHAFFER
Solutions you can build upon

851 E. I-45 Service Road South, Suite 1000
Mobile, Alabama 36606
Phone (251) 471-5597
Fax (251) 471-5597
www.neel-schaffer.com

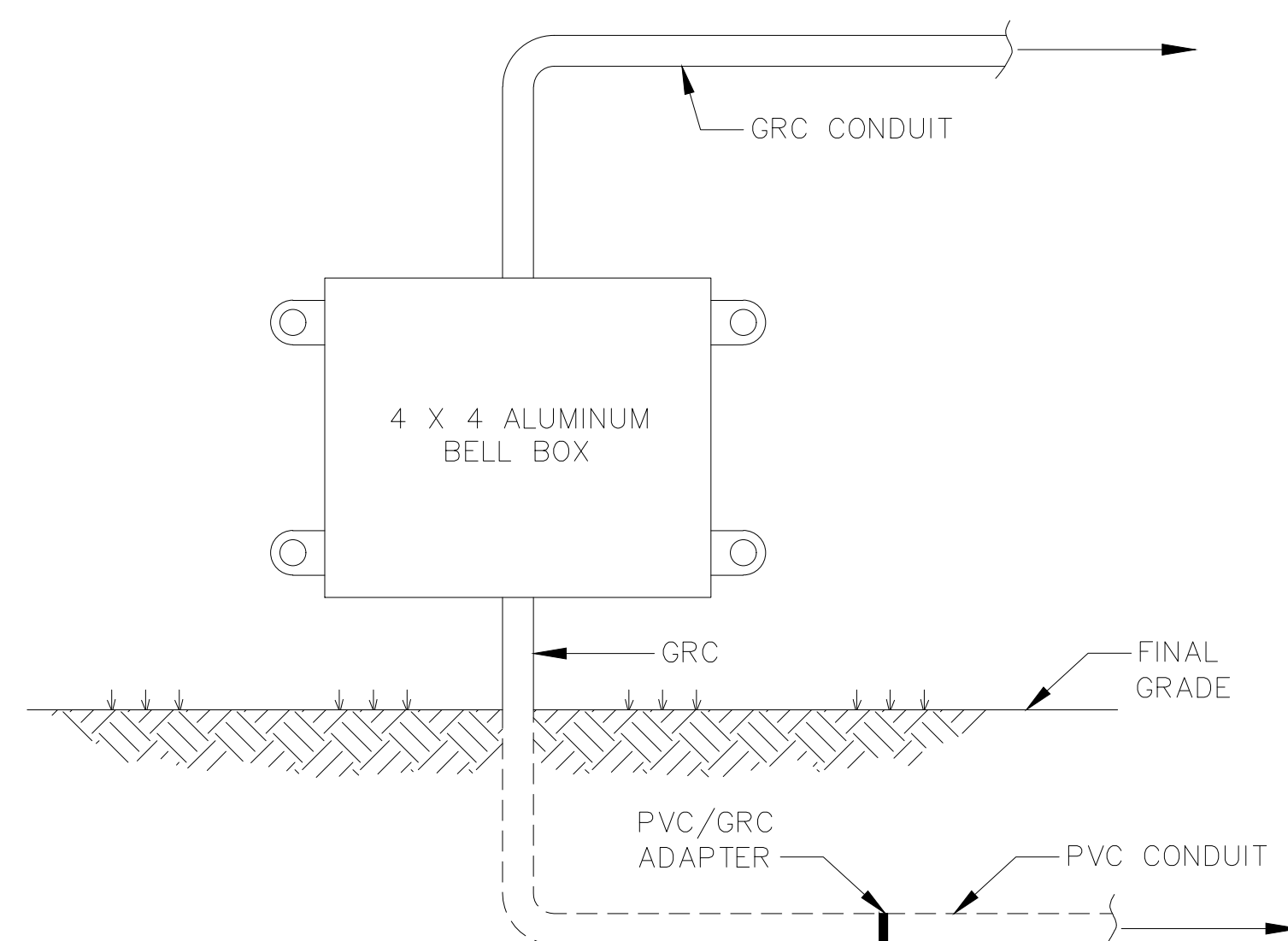
Approved By _____



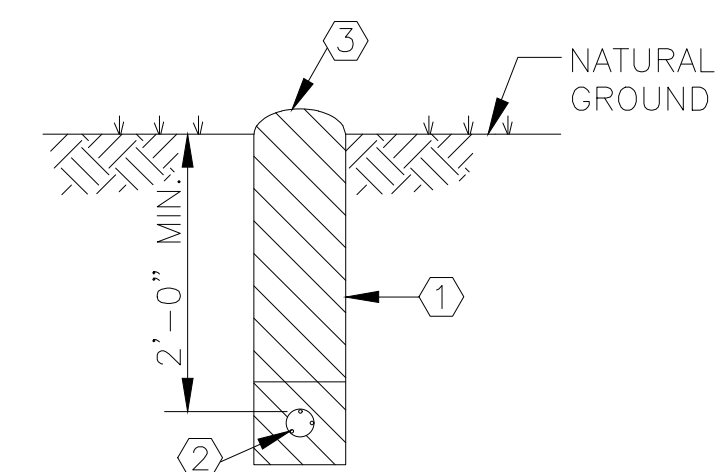
LIGHT POLE FIXTURE DETAIL B
N.T.S.



LIGHT POLE FIXTURE DETAIL C
N.T.S.



STRUCTURE MOUNTED PULL BOX
FOR TRANSITION FROM UNDERGROUND TO BOARDWALK
N.T.S.



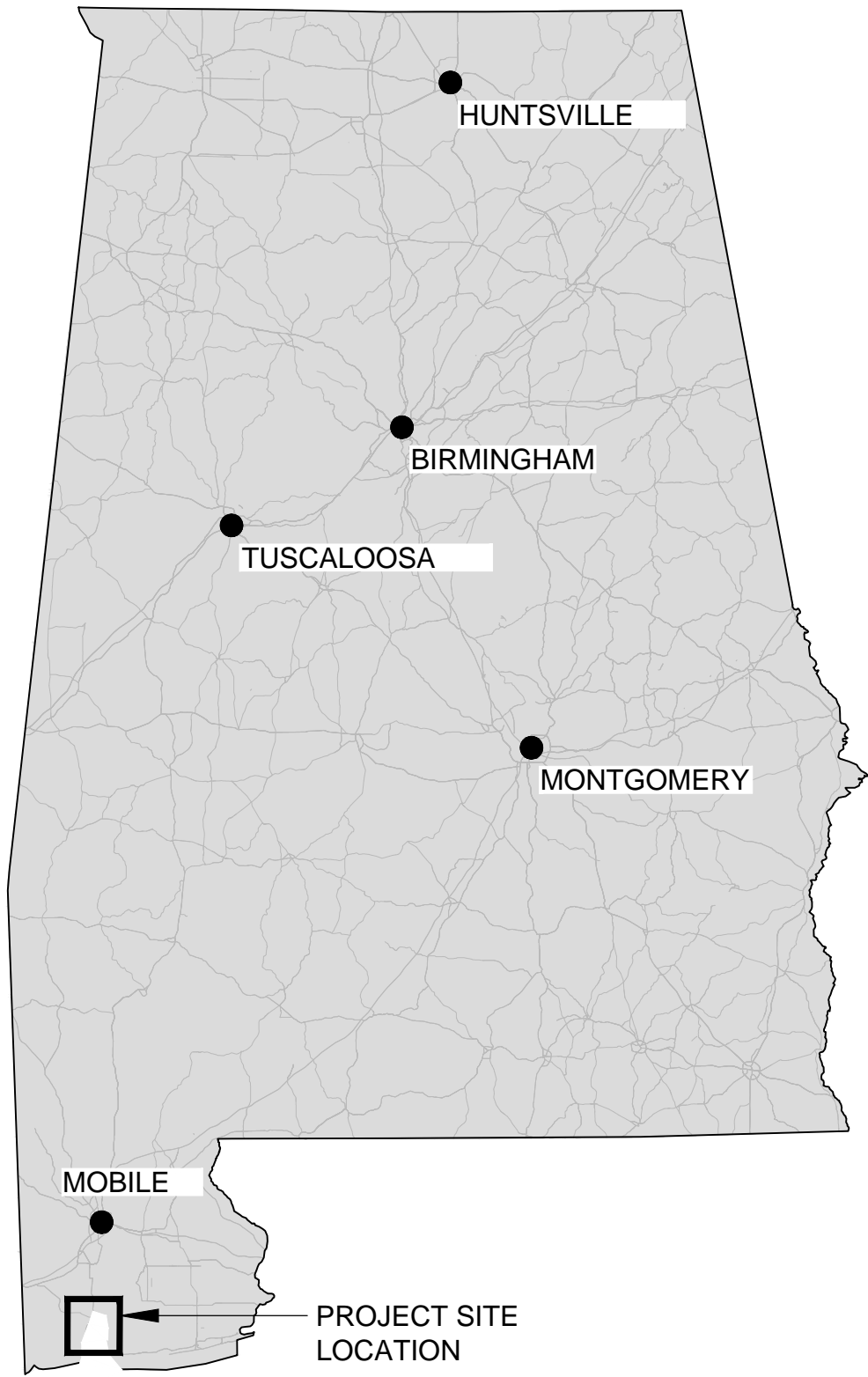
CABLE TRENCHING DETAIL

N.T.S.

- ① FRIABLE MATERIAL AS APPROVED BY THE ENGINEER
COMPACTED 6" LIFTS.
- ② TYPE THWN CABLE IN PVC CONDUIT.
- ③ PILE EXCESS 3" ABOVE GRADE FOR SETTLING
OR AS DIRECTED BY ENGINEER.

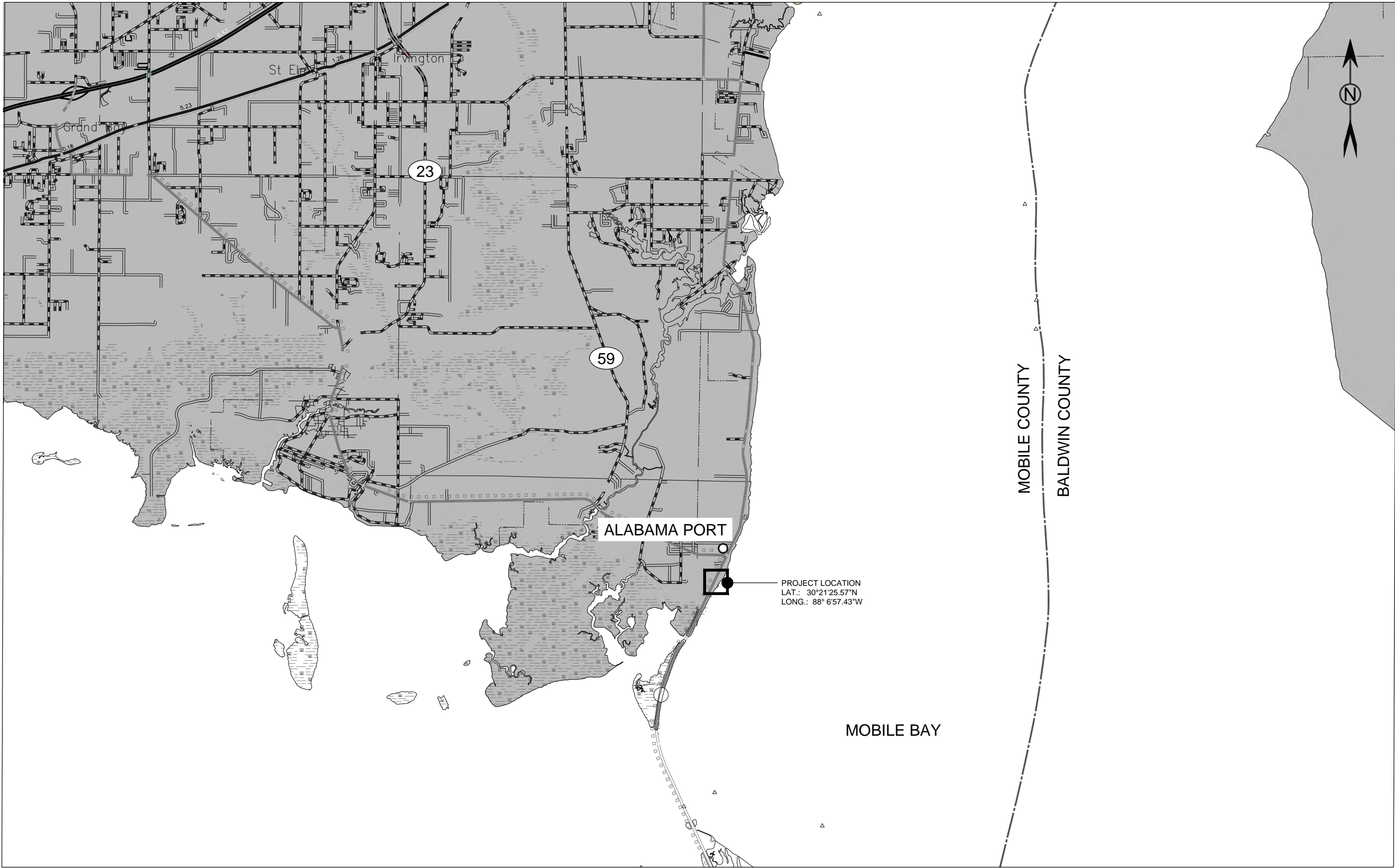
MOBILE COUNTY

BAYFRONT PARK RESTORATION AND IMPROVEMENTS

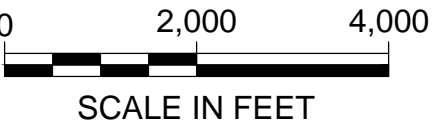


ALABAMA
KEY MAP

SHEET INDEX		
SHEET NO.	TITLE	SHEET #
G1	COVER SHEET	1
G2	GENERAL NOTES	2
MARINE		
MA1	EXISTING SITE PLAN	3
MA2	SITE PLAN	4
MA3	SECTIONS 1	5
MA4	SECTIONS 2	6



LOCATION MAP



30% SUBMITTAL



Mott MacDonald
107 Saint Francis Street, Suite 2900
Mobile, AL 36602

T +1 (251) 343 4366
F +1 (251) 343 6902
www.mottmacamericas.com



MOBILE COUNTY
205 GOVERNMENT STREET
MOBILE, AL 36602



851 E. 145 Service Road South, Suite 1000
Mobile, Alabama 36605
TEL: (251) 471-2000
FAX: (251) 471-2002

Rev	Date	Drawn	Description	Ch'k'd	App'd				

THIS DOCUMENT IS
PRELIMINARY AND IS NOT
FOR CONSTRUCTION OR
ANY PERMITTING PURPOSE

VICTORIA CURTO
ALABAMA LIC. 38803

Project Number
502401023-001

B/O
1

Total
6

Designed	VC		Eng check		
Drawn	BT		Coordination		
Dwg check	KW		Approved		
Scale at ANSI D	Status		Rev	Security	
Drawing Number	G1				

BAYFRONT PARK
RESTORATION
AND IMPROVEMENTS

COVER SHEET

GENERAL NOTES

- A1

AERIAL PHOTOGRAPH FROM GOOGLE EARTH DATED MARCH 2010. THE IMAGE IS ONLY REPRESENTATIVE OF THE CONDITIONS AT THE TIME THE AERIAL PHOTOGRAPH WAS TAKEN.
- A2

SURVEY

1. HORIZONTAL DATUM OF ALL COORDINATES REFERENCED TO NAD 83 ALABAMA PLANE WEST ZONE US FEET UNLESS NOTED OTHERWISE.

2. ALL ELEVATIONS ARE IN FEET REFERENCED TO NAVD88.

3. REFERENCE HORIZONTAL AND VERTICAL CONTROL E 511
N: 1761138.51
E: 1770155.33
ELEV: 30.0 NAVD88

4. ALL SURVEYS WERE REFERENCED TO CONTROL POINT E 511. SEE CONTROL POINT TABLE.

5. SURVEY DATA COLLECTED BY HYDRO ENGINEERING SOLUTIONS DATED OCTOBER 28, 2018. SURVEY DATA CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE CONDITIONS AT THE TIME OF THE SURVEY.
- A3

PROJECT SITE CONDITIONS

1. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE HYDRODYNAMIC CONDITIONS PRESENT AT THE PROJECT SITE PRIOR TO BIDDING. WATER LEVELS MAY VARY DUE TO SEASONAL AND/OR DAY TO DAY VARIATIONS. THE PROJECT SITE CAN BECOME INUNDATED BY WIND, STORM TIDES AND WEATHER EVENTS.

2. FLUCTUATIONS IN WATER LEVEL AND WAVES AT THE PROJECT SITE OCCUR ON A DAILY BASIS. THE CONTRACTOR IS RESPONSIBLE FOR UTILIZING EQUIPMENT AND METHODS APPROPRIATE FOR THE CONDITIONS AT THE TIME OF CONSTRUCTION
- A4

SITE PROTECTION

THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF TEMPORARY SAFETY FENCING TO ESTABLISH LIMITS OF CONSTRUCTION, AVOIDANCE AREAS, AND TO PROTECT THE GENERAL ENVIRONMENT. LOCATION OF THE INSTALLED FENCING MUST BE APPROVED BY THE OWNER/ENGINEER PRIOR TO ANY EQUIPMENT ACCESS OR CONSTRUCTION BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR REINSTALLATION, REPAIR, AND MAINTENANCE OF FENCING AT ALL TIMES.
- A5

OBSTRUCTION OF NAVIGATION CHANNELS

THE CONTRACTOR SHALL KEEP NAVIGATION CHANNELS FREE FROM VESSELS OR OTHER OBSTRUCTIONS. THE CONTRACTOR SHALL CONDUCT THE WORK IN SUCH A MANNER AS TO PRECLUDE ANY OBSTRUCTIONS TO NAVIGATION.
- A6

RIPRAP GROINS

RIPRAP GROINS SHALL BE CONSTRUCTED TO THE DIMENSIONS, ELEVATIONS, AND ORIENTATIONS SHOWN IN THESE PLANS.
- A7

BEACH FILL

BEACH FILL SHALL BE CONSTRUCTED TO THE DIMENSIONS, ELEVATIONS, AND ORIENTATIONS SHOWN IN THESE PLANS.
- A9

SAFETY

FOLLOW PROCEDURES AND GUIDELINES CONSISTENT WITH OSHA REGULATIONS.
- A8

EXISTING STRUCTURES

THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE BAYFRONT PARK PROPERTY. IF DAMAGES OCCUR, THE CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS AND/OR REPLACEMENTS AT NO ADDITIONAL COST TO THE PROPERTY OWNERS.

ABBREVIATIONS:

BM	BENCHMARK
B.O.	BOTTOM OF
BW	BULKHEAD WALL WORKING POINT
CL	CENTERLINE
EL	ELEVATION
FT	FEET
GALV	GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE
MHHW	MEAN HIGHER HIGH WATER
MHHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MIN	MINIMUM
MAX	MAXIMUM
T.O.	TOP OF
TYP	TYPICAL
UGC	UNIFORM GENERAL CONDITIONS
UHMW	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
WP	WORKING POINT
W/	WITH
@	AT
'	MINUTES OR FEET
"	SECONDS OR INCHES


CONTROL TABLE			
POINT ID	NORTHING	EASTING	ELEVATION (NAVD88)
E511	1761138.51	137201.89	+30.0'
H482	1770155.33	123532.09	+16.0'

TIDAL WATER LEVELS (NAVD88)	
MEAH HIGHER HIGH WATER (MHHW)	+0.70'
MEAN SEA LEVEL	+0.06'
MEAN LOWER LOW WATER (MLLW)	-0.50'

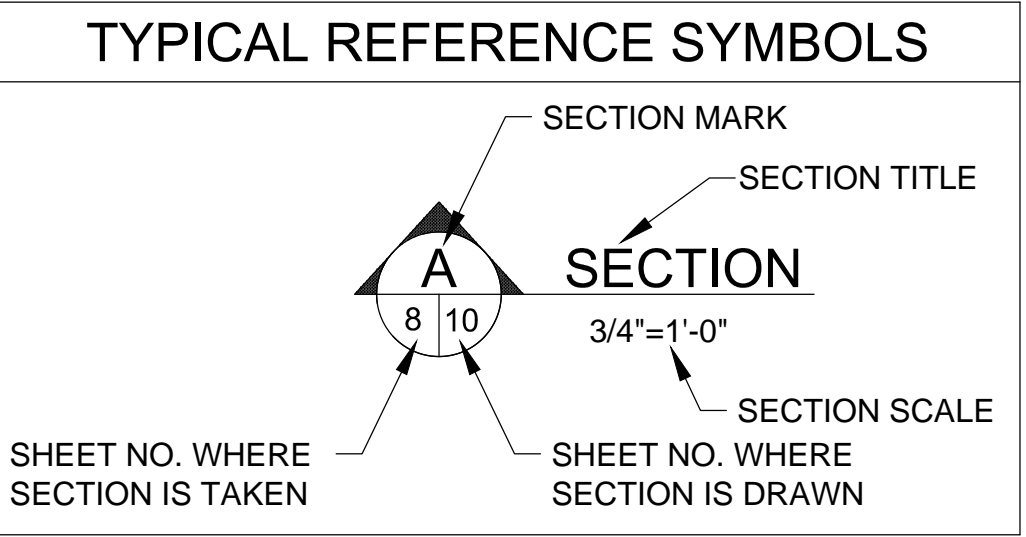
* TIDAL ELEVATIONS WERE DETERMINED AT DAUPHIN ISLAND, AL NOAA STATION ID 8735180

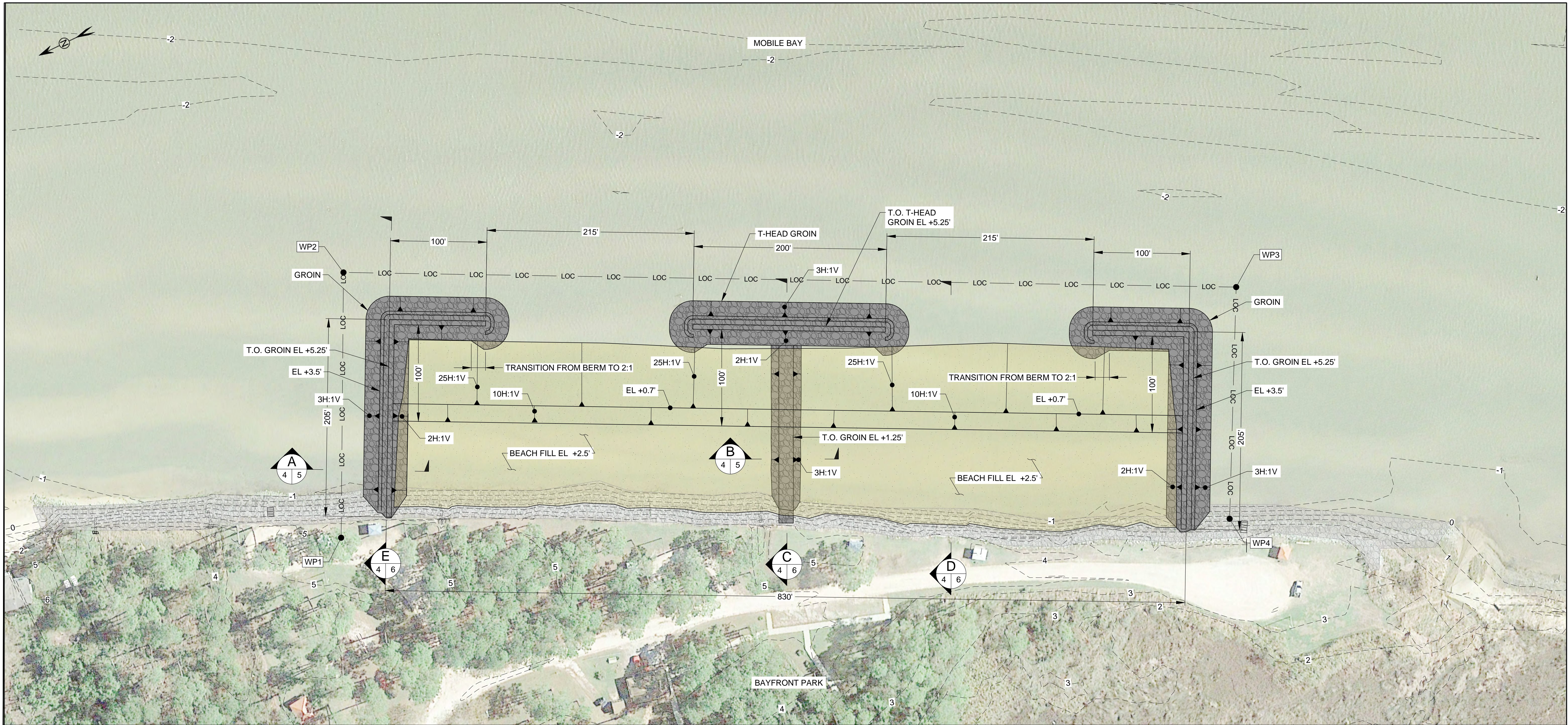
CALL BEFORE YOU DIG!

MOST AGENCIES REQUIRE AT LEAST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL

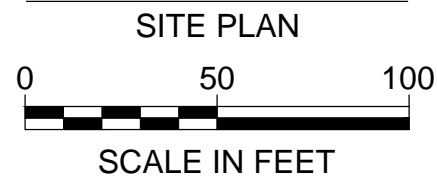


811 OR WWW.AL811.COM.





SITE PLAN



LEGEND

- ELEVATION CONTOURS
—— LOC —— LIMITS OF CONSTRUCTION

WORKING POINT TABLE

POINT ID	NORTHING	EASTING
WP1	130340.88	1774187.88
WP2	130219.26	1774434.92
WP3	129391.18	1774019.43
WP4	129501.62	1773805.67

NOTE: ALL COORDINATES SHOWN IN NAD83
ALABAMA STATE PLANES, WEST ZONE US FOOT.

TIDAL WATER LEVELS (NAVD88)

MEAH HIGHER HIGH WATER (MHHW)	+0.70'
MEAN SEA LEVEL (MSL)	+0.06'
MEAN LOWER LOW WATER (MLLW)	-0.50'

30% SUBMITTAL

M
MOTT
MACDONALD

Mott MacDonald
107 Saint Francis Street, Suite 2900
Mobile, AL 36602
Texas Registered Firm No. 12181

T +1 (251) 343 4366
F +1 (251) 343 6902
www.mottmacamericas.com

Client



MOBILE COUNTY
205 GOVERNMENT STREET
MOBILE, AL 36602

Prime



801 E. 945 Service Road South, Suite 1000
Mobile, Alabama 36608
TEL (251) 471-2000
FAX (251) 471-5987

THIS DOCUMENT IS
PRELIMINARY AND IS NOT
FOR CONSTRUCTION OR
ANY PERMITTING PURPOSE

VICTORIA CURTO
ALABAMA LIC. 38803

Project Number
502401023-001

B/O
4

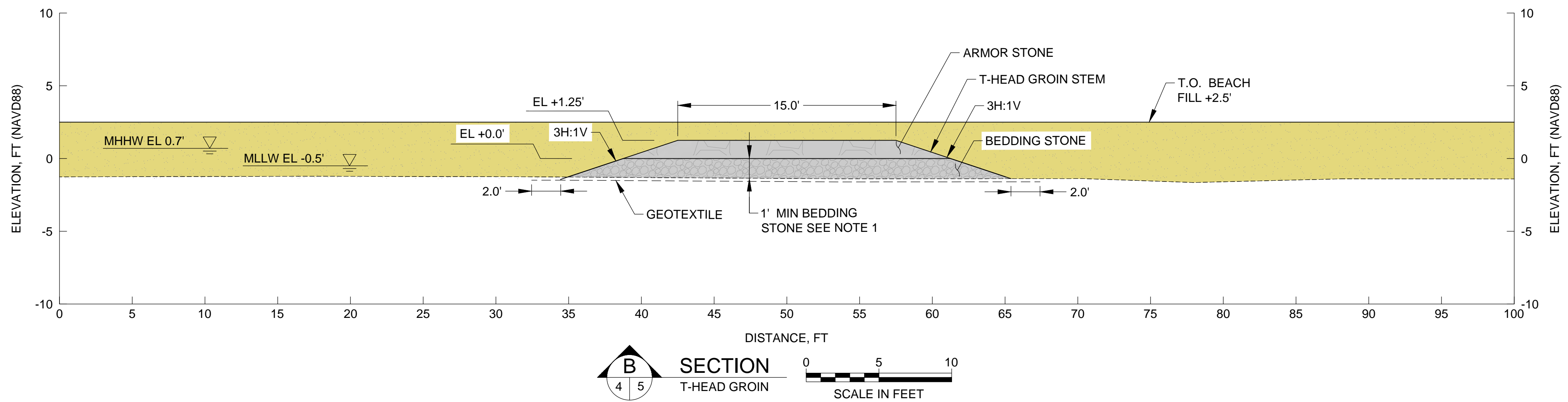
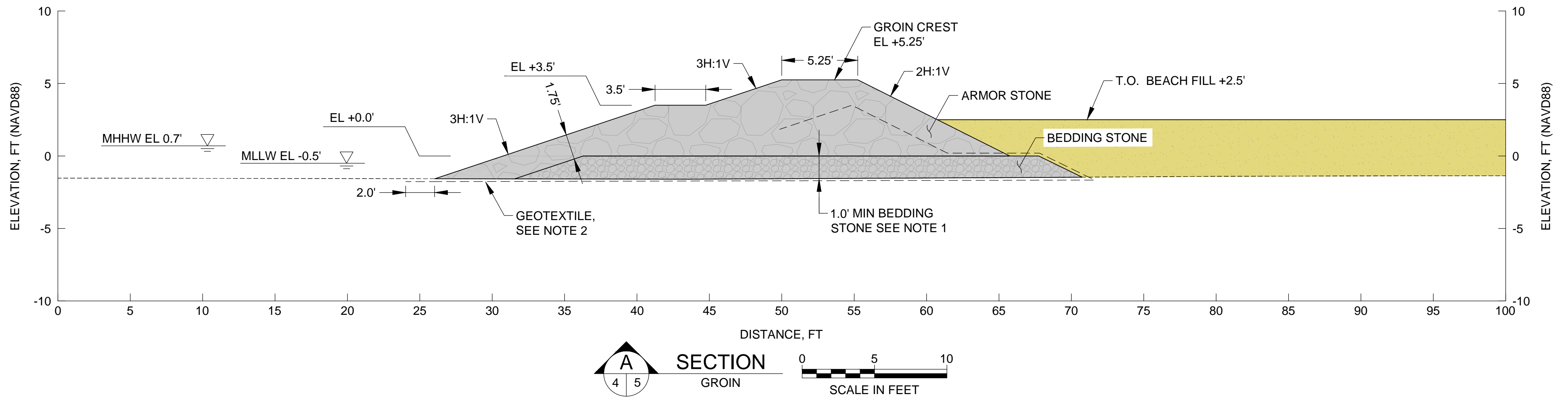
Total
6

Designed	VC	Eng check	
Drawn	BT	Coordination	
Dwg check	KW	Approved	
Scale at ANSI D	Status	Rev	Security
Drawing Number	MA2		

Title

BAYFRONT PARK
RESTORATION
AND IMPROVEMENTS

SITE PLAN



- NOTE:
- BEDDING STONE LAYER SHALL VARY TO ALLOW FOR CROSS SECTION TO MEET ELEVATIONS SHOWN. BEDDING STONE LAYER SHALL BE A MINIMUM THICKNESS OF 1'.
 - GEOTEXTILE LAYER SHALL BE WRAPPED AROUND CORE ARMOR STONE UP TO AN ELEVATION OF +3.5' NAVD88 WITH MINIMUM OF ONE LAYER OF ARMOR STONE OVERTOP OF GEOTEXTILE. EXTEND GEOTEXTILE 2' FROM THE TOE OF THE STRUCTURE.

30% SUBMITTAL

MOTT MACDONALD

Mott MacDonald
107 Saint Francis Street, Suite 2900
Mobile, AL 36602
Texas Registered Firm No. 12181

T +1 (251) 343 4366
F +1 (251) 343 6902
www.mottmacamericas.com

MOBILE COUNTY
205 GOVERNMENT STREET
MOBILE, AL 36602

NEEL-SCHAFER
Solutions you can build upon

831 E. 945 Service Road South, Suite 1000
Mobile, Alabama 36605
TEL: (251) 471-2000
FAX: (251) 471-0997

Rev	Date	Drawn	Description	Ch'k'd	App'd

THIS DOCUMENT IS
PRELIMINARY AND IS NOT
FOR CONSTRUCTION OR
ANY PERMITTING PURPOSE

VICTORIA CURTO
ALABAMA LIC. 38803

Project Number
502401023-001

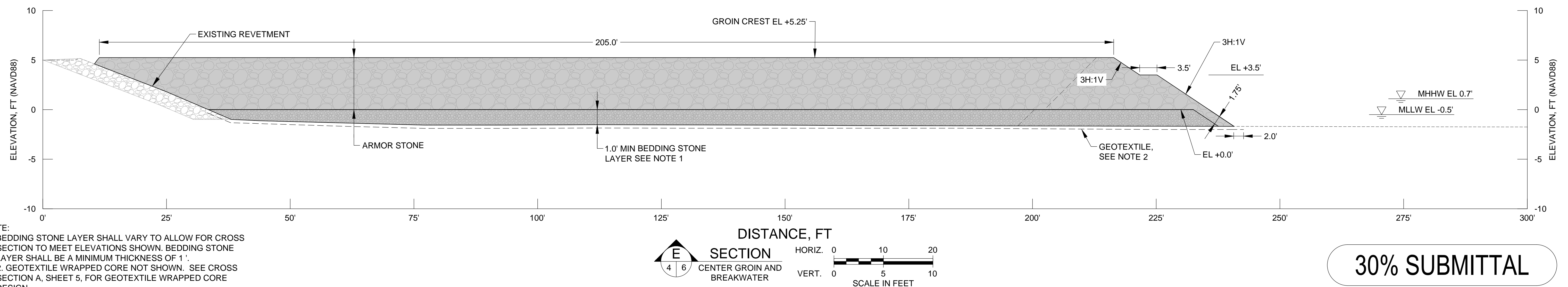
B/O
5

Total
6

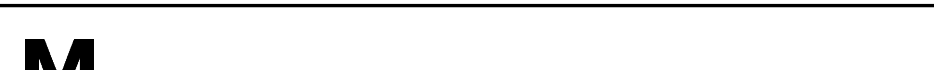


Designed	VC	Eng check		
Drawn	BT	Coordination		
Dwg check	KW	Approved		
Scale at ANSI D	Status	Rev	Security	
Drawing Number	MA3			

BAYFRONT PARK
RESTORATION
AND IMPROVEMENTS

SECTIONS 1



30% SUBMITTAL

 <p>Mott MacDonald 107 Saint Francis Street, Suite 2900 Mobile, AL 36602 Texas Registered Firm No. 12181</p> <p>T +1 (251) 343 4366 F +1 (251) 343 6902 www.mottmacamericas.com</p>	Client		 MOBILE COUNTY 205 GOVERNMENT STREET MOBILE, AL 36602								<div style="border: 1px solid black; padding: 5px;"> THIS DOCUMENT IS PRELIMINARY AND IS NOT FOR CONSTRUCTION OR ANY PERMITTING PURPOSE VICTORIA CURTO ALABAMA LIC. 38803 </div>	Designed	VC		Eng check			Title <h1>BAYFRONT PARK RESTORATION AND IMPROVEMENTS</h1> <h2>SECTIONS 2</h2>
	Prime		 <small>951 E. 940 Service Road South, Suite 1000 Mobile, Alabama 36606 TEL (251) 471-0900 FAX (251) 471-5887</small>									Drawn	BT		Coordination			
												Dwg check	KW		Approved			
												Scale at ANSI D		Status	Rev	Security		
												Project Number		B/O	Total	Drawing Number		
					Rev	Date	Drawn	Description	Ch'k'd	App'd		502401023-001		6	6	MA4		