ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER

CITY OF ORANGE BEACH; ORANGE BEACH, AL

DAI PROJECT # 3981.02 BC# TBD

100% BID DOCUMENTS

02-14-2020





N ORANGE BEACH RECREATION
COMPLEX NEW ADULT
FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

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REV DATE DESCRIPT

PHASE 100% BID DOCUMENTS
ISSUED FOR

DAVIS ARCHITECTS

COVER SHEET

DRAWING N

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- 1. THE PROJECT MANUAL (SPECIFICATIONS) IS A VITAL PART OF THE CONTRACT DOCUMENTS. THE PROJECT CANNOT BE SUCCESSFULLY BUILT WITHOUT FULL ADHERENCE TO THE TECHNICAL SPECIFICATIONS. THE NOTES THAT FOLLOW BY DIVISION ARE IN ADDITION TO THE REQUIREMENTS SPECIFIED IN THE PROJECT MANUAL
- UNLESS NOTED OTHERWISE, THE GENERAL CONDITIONS FOR CONSTRUCTION ARE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONDITIONS SET FORTH THE RESPONSIBILITIES OF THE VARIOUS PARTIES INVOLVED IN THE CONSTRUCTION. THE CONTRACTOR SHALL READ THESE AND FAMILIARIZE HIMSELF WITH THE REQUIREMENTS BEFORE STARTING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY MEASURES DURING THE EXECUTION OF THE WORK. THE ARCHITECT MAY ALERT THE CONTRACTOR'S SUPERINTENDENT TO OBSERVED UNSAFE CONDITIONS, BUT THE ARCHITECT IS NOT RESPONSIBLE FOR PROJECT SAFETY AND WILL NOT ASSUME THAT RESPONSIBILITY.
- 4. THE FOLLOWING DEFINITIONS SHALL APPLY, UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- ALIGN: PROVIDE FINISH FACES OF MATERIALS IN STRAIGHT, TRUE, AND PLUMB RELATION TO ADJACENT MATERIALS AS REQUIRED: PROVIDE THE SPECIFIED COMPONENTS TO COMPLETE THE NOTED SYSTEMS.
- SIMILAR: PROVIDE COMPLETE COMPONENTS FOR THE SYSTEM INDICATED THAT ARE COMPARABLE TO THE
- CHARACTERISTICS FOR THE CONDITION NOTED. 4. TYPICAL: INDICATES COMPLETE IDENTICAL SYSTEM SHALL BE PROVIDED FOR EACH OCCURRENCE OF THE CONDITION
- REFER TO DIVISION 1 SECTION "REFERENCES" FOR ADDITIONAL TYPICAL TERMS AND DEFINITIONS APPLICABLE TO THE CONSTRUCTION DOCUMENTS. THIS SECTION SHALL TAKE PRECEDENCE OVER ANY OTHER DEFINITIONS STATED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.

- 1. UNLESS NOTED OTHERWISE, THE TERM CONTRACTOR IN THE FOLLOWING NOTES SHALL REFER TO THE CONTRACTOR WHO HOLDS THE PRIME CONTRACT WITH THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK CONTAINED IN THE CONSTRUCTION DOCUMENTS.
- REFERENCES TO WORK BY SUBCONTRACTORS IN THE DRAWINGS OR SPECIFICATIONS ARE FOR INFORMATION ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ASSIGNING WORK TO THE VARIOUS TRADES.
- 3. THE CONTRACTOR IS REQUIRED TO COORDINATE WORK OF SEPARATE CONTRACTORS EMPLOYED BY THE OWNER. THIS WORK SHALL BE REFLECTED IN THE CONSTRUCTION SCHEDULE.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW THE CONSTRUCTION DOCUMENTS, COMPARE REQUIREMENTS FOR EACH TRADE, AND REFER ANY CONFLICTS TO ARCHITECT BEFORE BEGINNING CONSTRUCTION.
- IF DISCREPANCIES OCCUR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE OBVIOUS CORRECT INTENT SHALL GOVERN. REFER ALL OTHER UNCERTAINTIES TO THE ARCHITECT FOR RESOLUTION.
- REQUESTS FOR INFORMATION (RFI'S) SHALL BE USED EXCLUSIVELY TO SEEK INFORMATION OR CLARIFICATIONS THAT ARE NOT CONTAINED IN THE CONTRACT DOCUMENTS. THE ARCHITECT MAY DISCARD RFI'S IF THE INFORMATION CAN EASILY BE FOUND IN THE DRAWINGS OR SPECIFICATIONS SIMPLY BY LOOKING.
- THE INTENT OF THE COMPLETED PROJECT IS TO MEET ALL APPLICABLE CODES, LIFE SAFETY REQUIREMENTS, ACCESSIBILITY REQUIREMENTS, AND RULES AND LAWS OF AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL REPORT ANY UNCERTAINTIES OR KNOWN VIOLATIONS TO THE ARCHITECT FOR RESOLUTION.
- THE DIVISION 1 SECTIONS OF THE PROJECT MANUAL CONTAIN GENERAL INFORMATION AND REQUIREMENTS APPLICABLE TO ALL SECTIONS IN DIVISIONS 2-16. THE CONTRACTOR SHALL ISSUE A COPY OF ALL DIVISION 1 SECTIONS INCLUDING TABLE OF CONTENTS WHEN ISSUING PARTIAL SETS OF DOCUMENTS TO OTHER CONTRACTORS.
- 9. ISSUING PARTIAL SETS OF CONSTRUCTION DOCUMENTS IS DISCOURAGED BY THE ARCHITECT AND THE OWNER. 10. UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE TEMPORARY PARKING SPACES FOR THE ARCHITECT, ENGINEERS, AND OWNER'S PROJECT MANAGER (IF APPLICABLE) FOR REGULARLY SCHEDULED PROJECT
- 11. ALL PRODUCTS INCORPORATED INTO THE PROJECT SHALL BE NEW UNLESS NOTED OTHERWISE.
- 12. UNLESS NOTED OTHERWISE, WARRANTIES SHALL NOT BEGIN UNTIL SYSTEMS ARE CERTIFIED TO BE OPERATIONAL REGARDLESS OF THE INSTALLATION DATE AND THE DATE FOR SUBSTANTIAL COMPLETION. (FOR EXAMPLE, IF THE OWNER IS FORCED TO OCCUPY THE BUILDING, AND SUBSTANTIAL COMPLETION IS GRANTED, IF A SYSTEM IS NOT FUNCTIONAL, THE BEGINNING WARRANTY DATE SHALL BE AS STATED ABOVE).
- 13. THE USE OF HAZARDOUS MATERIALS. EVEN PRODUCTS WITH TRACE AMOUNTS. SHALL NOT BE INCORPORATED INTO THE WORK.
- 14. MATERIALS CONTAINING MOLD SHALL BE REMOVED FROM THE JOBSITE 15. ALL TESTS AND INSPECTIONS FOR AIR AND MOISTURE PENETRATION SHALL BE COMPLETED PRIOR TO INSTALLATION OF ANY
- INTERIOR FINISH MATERIALS 16. FLOOR FINISH COVERINGS, FINISH TOPPINGS, FLOOR COATINGS, AND OTHER SHEET MEMBRANES SHALL NOT BE INSTALLED OVER CONCRETE SLABS ON GRADE PRIOR TO COMPLETE DRYING OF THE CONCRETE SLAB AND AFTER FIELD TESTING FOR
- ACCEPTABLE MOISTURE CONTENT 17. THE CONTRACTOR SHALL TAKE CARE TO CLEAN UP LIQUID SPILLS ON FLOORS TO MINIMIZE THE MOISTURE CONTENT IN THE SLAB
- AND TO REDUCE SLIPPING ACCIDENTS. 18. FUEL POWERED EQUIPMENT AND FUEL CANS SHALL NOT BE STORED IN THE BUILDING.
- 19. THE SPECIFICATIONS CONTAIN REQUIREMENTS FOR PREINSTALLATION CONFERENCES AND MOCKUPS PRIOR TO STARTING WORK OF EACH SECTION. MOCKUPS SHALL BE IN PLACE BEFORE REQUESTING AN INSPECTION.
- 20. WHERE INCORRECT REFERENCES ARE MADE ON THE DRAWINGS OR IN THE SPECIFICATIONS TO SPECIFICATION SECTION NUMBERS AND TITLES NOT FOUND IN THE PROJECT MANUAL, AND WHERE THERE IS NO DOUBT AS TO THE ARCHITECT'S INTENT, THE CONTRACTOR SHALL ASSUME THE CORRECT SECTION NUMBER AND TITLE THAT SPECIFIES THE RELEVANT PRODUCTS. REFER UNCERTAINTIES TO ARCHITECT FOR CLARIFICATION.
- 21. WHERE INCORRECT REFERENCES TO WALL SECTIONS, DETAILS, AND DRAWING NUMBERS OCCUR, THE CONTRACTOR SHALL ASSUME THE CORRECT REFERENCES OR REFER UNCERTAINTIES TO THE ARCHITECT FOR CLARIFICATION
- 22. SPECIAL INSPECTIONS AND TESTING ARE REQUIRED ON THIS PROJECT INCLUDING WRITTEN DOCUMENTATION AND REPORTING. REFER TO THE DIVISION 1 SPECIFICATIONS AND/OR STRUCTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY WHEN TESTING IS TO BE PERFORMED WITH AT LEAST 24 HOURS ADVANCE NOTICE.
- 23. THE CONTRACTOR SHALL REPLACE DEFECTIVE WORK PRIOR TO THE NEXT APPLICATION FOR PAYMENT 24. NEW WORK SHALL BE MADE TO TIE INTO THE EXISTING IN A UNIFORM MANNER. SIMILAR ITEMS OF NEW WORK SHALL BE CHECKED AGAINST EXISTING WORK FOR TYPE AND MOUNTING HEIGHTS. IF ITEMS SHOWN IN NEW WORK ARE AT VARIANCE FROM THE
- EXISTING WORK, REFER TO ARCHITECT BEFORE ROUGHING IN. 25. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION. VERIFY ALL EXISTING SITE CONDITIONS AND
- NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH THE DRAWINGS 26. ALL OPENINGS REQUIRING INSTALLATION OF PREFABRICATED ITEMS SUCH AS WINDOWS, DOOR FRAMES, ETC. SHALL BE FIELD

28. THE MECHANICAL AND ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. THE INTENT OF THE DESIGN IS THAT ALL REQUIRED

- MEASURED OR THE CONTRACTOR SHOULD GUARANTEE THE OPENINGS. DO NOT RELY ON THE DIMENSIONS ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS AS SPECIFIED IN DIVISION 1 SECTION "PROJECT MANAGEMENT AND COORDINATION.
- CLEARANCES FOR EQUIPMENT, ESPECIALLY POWER PANELS, SHALL BE PROVIDED. IF THE CONTRACTOR DISCOVERS THAT ADEQUATE CLEARANCES WILL NOT BE POSSIBLE WITHIN THE MECHANICAL OR ELECTRICAL ROOMS FOR THE APPROVED EQUIPMENT. HE SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
- 29. ALL DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL FOR THE GENERAL CONDITIONS IN THE PROJECT. ALL DETAILS AND SECTIONS SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR CONDITION THROUGHOUT THE PROJECT UNLESS A SPECIFIC DETAIL IS PROVIDED. REFER ANY UNCERTAINTIES TO ARCHITECT FOR CLARIFICATION
- 30. THE CONTRACTOR SHALL NOT REPRODUCE CONSTRUCTION DOCUMENTS IN WHOLE OR IN PART FOR SHOP DRAWING PRODUCTION WITHOUT THE ARCHITECT'S APPROVAL. ANY DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENT TO ACCURATELY LAY OUT, COORDINATE, DETAIL, FABRICATE, AND INSTALL A COMPLETE WORKABLE SYSTEM OF COMPONENTS.
- 31. THE CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS WITHOUT THE ARCHITECT'S WRITTEN
- 32. CONSTRUCTION CHANGES AFFECTING CONTRACT SUM SHALL BE APPROVED BY OWNER IN WRITING BEFORE IMPLEMENTATION
- OF THE CHANGE
- 33. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND UTILITIES PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR FIELD MEASUREMENTS TO PROPERLY FIT THE WORK.
- THE CONTRACTOR'S CONSTRUCTION SUPERINTENDENT SHALL REPRESENT THE CONTRACTOR AND THE SUBCONTRACTORS. WHEN A PROBLEM ARISES DURING EXECUTION OF THE WORK, THE SUPERINTENDENT IS EXPECTED TO KNOW AND UNDERSTAND EACH PROBLEM AND HAVE TRIED TO RESOLVE IT BEFORE CALLING THE ARCHITECT.
- 36. THE CONTRACTOR IS REQUIRED TO PROTECT THE INSTALLED WORK UNTIL SUBSTANTIAL COMPLETION. THIS INCLUDES MAINTAINING THE PROPER TEMPERATURE AND HUMIDITY LEVELS FOR THE PRODUCTS INSTALLED
- SMOKING, EATING, AND DRINKING INSIDE THE BUILDING (OTHER THAN WATER) IS NOT ALLOWED. 38. THE CONTRACTOR SHALL REMOVE CONSTRUCTION DEBRIS FROM CONCEALED SPACES BEFORE ENCLOSING THE SPACE. AIR HANDLING EQUIPMENT AND DUCTWORK SHALL BE PROTECTED TO PREVENT ACCUMULATION OF DIRT AND DEBRIS IN THE
- 39. UNLESS NOTED OTHERWISE IN THE PROJECT MANUAL, THE CONTRACTOR SHALL SUBMIT THE OPERATIONS AND MAINTENANCE MANUALS AT LEAST TWO WEEKS BEFORE THE FINAL INSPECTION IS SCHEDULED FOR SUBSTANTIAL COMPLETION. THE FINAL
- INSPECTION WILL NOT BEGIN UNTIL O&M MANUALS HAVE BEEN APPROVED. 40. THE CONSTRUCTION SCHEDULE SHALL ALLOW TIME FOR TESTING AND BALANCING PRIOR TO SUBSTANTIAL COMPLETION.
- THE PROJECT WILL NOT BE CONSIDERED SUBSTANTIALLY COMPLETE UNTIL THE TESTING AND BALANCING HAS BEEN 41. REQUEST FOR FINAL INSPECTION SHALL BE IN WRITING TO THE ARCHITECT.
- 42. WHEN APPLICABLE, ALL DEMONSTRATION AND TRAINING OF OWNER'S PERSONNEL SHALL BE COMPLETE BEFORE THE PROJECT IS
- CERTIFIED TO BE SUBSTANTIALLY COMPLETE BY THE ARCHITECT. 43. THE CONTRACTOR SHALL CONDUCT TWO POST CONSTRUCTION INSPECTIONS:
- 1. THE FIRST INSPECTION WILL BE HELD APPROXIMATELY 8 MONTHS AFTER SUBSTANTIAL COMPLETION TO ADDRESS PLUMBING, HVAC, AND ELECTRICAL CONCERNS:
 - THE SECOND INSPECTION WILL BE HELD PRIOR TO EXPIRATION OF THE 1-YEAR WARRANTY PERIOD TO ADDRESS GENERAL CONSTRUCTION, INCLUDING THE ABOVE. ALL PROBLEMS DISCOVERED DURING THESE INSPECTIONS THAT RELATE TO DEFECTIVE MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

DIVISION 2

- EXISTING GRADES, TREES, ROADS, UTILITIES, STRUCTURES, AND OTHER PHYSICAL FEATURES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO WORK IN THE AREA.
- THE USE OF EXPLOSIVES IN CONSTRUCTION IS NOT PERMITTED. UNLESS NOTED OTHERWISE, GEOTECHNICAL REPORTS ARE FOR INFORMATION ONLY WHETHER OR NOT BOUND INTO THE PROJECT MANUAL
- 4. APPLICATION OF TERMITICIDES SHALL BE WITNESSED BY THE ARCHITECT OR THE OWNER'S REPRESENTATIVE, AND CERTIFIED
- UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING OF NEW GRASS, TREES, AND OTHER VEGETATION TO GET THROUGH PERIODS OF NO RAINFALL OR TAKE RESPONSIBILITY TO REESTABLISH THOSE AREAS THAT PERISH.

DIVISION 3: SEE STRUCTURAL DRAWINGS

DIVISION 4

- UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE CONTROL JOINTS IN CMU WALLS IN ACCORDANCE WITH ACI 530.1, BUT NOT MORE THAN 28 FEET ON CENTER AND WHERE WALLS CHANGE HEIGHT IN THE PLANE OF THE WALL.
- ARCHITECT TO APPROVE JOINT LOCATIONS. UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE EXPANSION JOINTS IN CLAY MASONRY NOT TO EXCEED 24 FEET ON
- CENTER. ARCHITECT TO APPROVE JOINT LOCATIONS. HORIZONTAL MASONRY DIMENSIONS ARE NOMINAL. CONTRACTOR SHALL CONVERT NOMINAL DIMENSIONS TO ACTUAL

DIMENSIONS TO MAINTAIN MASONRY BOND PATTERN. FOR EXAMPLE, 1'-4" EQUALS 1'-3 5/8". OPENINGS ARE ALWAYS 3/8-INCHES

WIDER THAN THE NOMINAL DIMENSION; I.E., 4'-0" MO EQUALS 4'-0 3/8" CHEMICAL CLEANERS FOR FACE BRICK SHALL BE APPROVED IN WRITING BY THE FACE BRICK AND MORTAR MANUFACTURERS PRIOR TO THEIR USE. NO EXCEPTIONS.

DIVISION 5

- WHERE CEILING MOUNTED TOILET PARTITIONS ARE USED, PROVIDE MISCELLANEOUS STEEL SUPPORTS IN ACCORDANCE WITH
- REQUIREMENTS OF DIVISION 5 SECTION "METAL FABRICATIONS." WHERE COUNTERTOPS ARE UNSUPPORTED BY BASE CABINETS, PROVIDE MISCELLANEOUS STEEL SUPPORTS IN ACCORDANCE WITH REQUIREMENTS OF DIVISION 5 SECTION "METAL FABRICATIONS."
- WHERE STRUCTURALLY REQUIRED TO SUPPORT ELEVATOR AND COMPONENTS, PROVIDE MISCELLANEOUS STEEL SUPPORTS IN ACCORDANCE WITH REQUIREMENTS OF DIVISION 5 SECTION "METAL FABRICATIONS."

DIVISION 6

- PROVIDE CONCEALED WOOD BLOCKING OR METAL SHEET IN METAL STUD PARTITIONS FOR SURFACE MOUNTED ACCESSORIES SUCH AS TOILET ACCESSORIES, TOILET PARTITIONS, AND OTHER CONSTRUCTION REQUIRING SECURE ATTACHMENT TO WALLS. PROVIDE FIRE RETARDANT TREATED WOOD WHERE REQUIRED BY CODE OR AUTHORITIES HAVING JURISDICTION.
- PROVIDE GROMMETS FOR DATA AND POWER CABLES IN COUNTERTOPS WHETHER OR NOT SHOWN ON DRAWINGS. COORDINATE LOCATIONS WITH ARCHITECT.
- SCRIBE ALL COUNTERTOPS TO WALLS AND SEAL WITH SPECIFIED SEALANT WHETHER OR NOT SHOWN ON THE DRAWINGS.
- VERIFY EXACT HEIGHT OF COUNTERTOPS AND BACKSPLASH PRIOR TO ROUGHING IN FOR ELECTRICAL OUTLETS. VERIFY DOOR SWINGS BEFORE ROUGHING IN FOR WALL SWITCHES, DIMMERS, AND MAGNETIC DOOR HOLDERS.

DIVISION 7

- WHERE PROVIDED, VAPOR BARRIERS SHALL BE CONTINUOUS WITH ALL PENETRATIONS PROPERLY SEALED. WHERE WATERPROOFING IS CALLED FOR ON THE DRAWINGS, APPLY WATERPROOFING SYSTEM TO ALL SIMILAR SURFACES BELOW GRADE WHETHER OR NOT SHOWN ON THE DRAWINGS
- HORIZONTAL WATERPROOFING SHALL BE FLOOD TESTED BY THE CONTRACTOR AND WITNESSED BY THE TESTING AGENCY. PROVIDE POSITIVE DRAINAGE ON ALL ROOFS WHETHER OR NOT SHOWN ON THE DRAWINGS SO NO STANDING WATER REMAINS
- **AFTER 48 HOURS** PROVIDE CRICKETS AT ALL ROOF CURBS AND EQUIPMENT RAILS SET PERPENDICULAR TO ROOF SLOPE THAT ARE WIDER THAN
- ON LOW SLOPE ROOFS WITH PARAPETS. PROVIDE THROUGH WALL EMERGENCY OVERFLOW SCUPPERS IN THE EVENT THAT INTERNAL ROOF DRAINS ARE PLUGGED SO WATER DEPTH NEVER EXCEEDS 2-INCHES AT ANY LOCATION.
- VERIFY LOCATIONS WITH ARCHITECT. 7. WHEN WALKWAY PADS ARE INCLUDED IN THE SPECIFICATIONS, PROVIDE WALKWAY PADS AROUND ALL ROOF TOP EQUIPMENT
- AND CONTINUOUS WALKWAY PATHS TO ROOF HATCHES OR LADDERS WHETHER OR NOT SHOWN ON THE DRAWINGS. COORDINATE ALL UTILITIES SERVING ROOF TOP EQUIPMENT SO ROOF PENETRATIONS OCCUR WITHIN THE ROOF CURB. IN THE ABSENCE OF A DETAIL OF ANY CONDITION ON THE ROOF. THE ROOF MANUFACTURER'S STANDARD DETAIL OR THE MOST
- STRINGENT NRCA/SMACNA DETAIL SHALL APPLY AS IF INCORPORATED INTO THE DRAWINGS. 10. IN THE ABSENCE OF ROOF EXPANSION JOINTS (NOT BUILDING EXPANSION JOINTS), ROOFING MANUFACTURER'S
- RECOMMENDATIONS SHALL GOVERN. 11. METAL COPINGS SHALL BE SECURED TO COMPLY WITH THE SPECIFICATIONS, AND IF NOT SPECIFIED, SHALL RESIST THE WIND LOADS FOR THE PARTICULAR PROJECT LOCATION.
- 12. WHEN PROJECT SPECIFICATIONS INCLUDE SPRAYED FIRE RESISTIVE MATERIALS, PROVIDE FIREPROOFING WHERE REQUIRED ON STRUCTURAL STEEL COMPONENTS TO MEET CONSTRUCTION TYPE FIRE PROTECTION WHETHER OR NOT SHOWN IN THE WALL SECTIONS AND DETAILS.
- 13. THE LIFE SAFETY DRAWINGS CONTAIN INFORMATION AND REQUIREMENTS RELATED TO FIRE RATED CONSTRUCTION AND FIRE PROTECTION SYSTEMS. COORDINATE THE REQUIREMENTS WITH THE CONSTRUCTION DOCUMENTS. REPORT DISCREPANCIES TO THE ARCHITECT
- 14. WHERE THROUGH PENETRATIONS OCCUR IN FIRE RATED ASSEMBLIES, THE CONTRACTOR IS RESPONSIBLE FOR SEALING ALL OPENINGS REGARDLESS OF THE TRADE WHO MADE THE PENETRATION.
- 15. EXTEND SMOKE WALLS TO DECK AND SEAL SMOKE TIGHT. (SMOKE TIGHT SEALS NEED NOT BE FIRE RATED, UNLESS NOTED OTHERWISE).
- 16. ALL CONCEALED THROUGH PENETRATION FIRESTOPPING AND FIRE RESISTIVE JOINT SYSTEMS SHALL BE INSPECTED AND APPROVED PRIOR TO CONCEALMENT BEHIND PERMANENT CONSTRUCTION. PERMANENTLY IDENTIFY FIRE RATED PARTITIONS ABOVE CEILINGS AND/OR CONCEALED SPACES. THE LETTERING SHALL BE 2-INCHES IN HEIGHT AND SPACED AT 12 FEET ON CENTER. THE WORDING SHALL BE APPROPRIATE FOR THE TYPE OF FIRE RATED ASSEMBLY AND APPROVED BY THE FIRE MARSHAL OR THE AUTHORITY HAVING JURISDICTION

DIVISION 8

- WOOD DOORS SHALL NOT BE INSTALLED UNTIL THE BUILDING IS ENCLOSED, THE PERMANENT HEATING AND COOLING SYSTEMS ARE IN OPERATION. AND RESIDUAL MOISTURE FROM PLASTER. CONCRETE. MASONRY. AND TERRAZZO WORK HAS DISSIPATED. IF THE DOORS MUST BE INSTALLED BEFORE THE CONDITIONS ARE ACCEPTABLE DUE TO CONSTRUCTION SCHEDULE RESTRAINTS, THE CONTRACTOR SHALL PROCEED AT HIS OWN RISK.
- PROVIDE CEILING ACCESS PANELS IN GYPSUM BOARD CEILINGS TO ACCESS MECHANICAL EQUIPMENT, WATER VALVES, AND
- ELECTRICAL JUNCTION BOXES AS REQUIRED. COORDINATE WITH MEP DRAWINGS FINAL EQUIPMENT LOCATIONS. ALL REMOVABLE GLAZING STOPS SHALL BE LOCATED ON THE SECURE SIDE OF OPENINGS

DIVISION 9

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- WHERE DRAWINGS INDICATE PARTITION TYPES. ACCOMPANIED BY A PARTITION SCHEDULE. AND A WALL IS FOUND TO HAVE NO DESIGNATION, THE CONTRACTOR SHALL ASSUME THE ADJACENT PARTITION TYPE, OR IF UNCERTAIN, ASSUME THE HIGHEST QUALITY. NO CHANGE ORDERS WILL BE GRANTED DUE TO MISSING DESIGNATIONS.
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS, PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN WET AREAS SUCH AS JANITOR CLOSETS, TOILETS, MECHANICAL ROOMS, AND FOOD PREPARATION AREAS.
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE CONTROL JOINTS IN PLASTER WALLS AND CEILINGS IN ACCORDANCE WITH ASTM C 1063; VERTICAL SURFACES: 144 SF; HORIZONTAL SURFACES: 100 SF. REFER ANY UNCERTAINTIES TO ARCHITECT FOR APPROVAL
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE CONTROL JOINTS IN GYPSUM BOARD SURFACES IN ACCORDANCE WITH ASTM C 840; CEILINGS: 2500 SF, 50 FEET MAX; PARTITIONS: 30 FEET MAX.
- METAL STUD THICKNESS SHALL BE AS INDICATED ON THE DRAWINGS. WHERE NO THICKNESS IS INDICATED, PROVIDE A MINIMUM STEEL THICKNESS OF 0.027 INCHES. ALL WALL FRAMING SHALL EXTEND TO THE DECK ABOVE AND PROVIDE DEFLECTION TRACKS, UNLESS NOTED OTHERWISE.
- FIRE RATED SHAFT WALLS SHALL BE ENCLOSED AT LOWEST LEVEL AND AT THE TOP WITH CONSTRUCTION OF THE SAME FIRE RESISTANCE RATING AS REQUIRED FOR THE SHAFT ENCLOSURE. ALL ROOMS SHALL BE ADA ACCESSIBLE. UNLESS NOTED OTHERWISE, ALL DOORS SHALL BE LOCATED SO THE EDGE OF DOOR
- OPENINGS FOR OUTSWING DOORS IS 18-INCHES MINIMUM FROM AN ADJACENT WALL. AND 12-INCHES MINIMUM FOR INSWING WHERE NO DIMENSION IS GIVEN AT INTERIOR DOOR LOCATIONS, LOCATE EDGE OF FRAME WITHIN 8-INCHES OF ADJACENT WALL

IN CMU CONSTRUCTION AND 4" IN STUD WALL CONSTRUCTION. REFER UNCERTAINTIES TO ARCHITECT FOR APPROVAL

10. THE DESIGN INTENT IS THAT THERE ARE NO DEAD END CORRIDORS IN THE BUILDING. IF IN THE LAYOUT OF THE WALLS THE CONTRACTOR DISCOVERS DISCREPANCIES OF A FEW INCHES RENDERING THE FINAL INSTALLATION UNACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, SUBMIT ALTERNATE LAYOUT TO ARCHITECT FOR APPROVAL. REFER TO LIFE SAFETY DRAWINGS FOR ALLOWABLE DISTANCES.

11. ALL CEILING GRIDS OF ACOUSTICAL PANEL CEILINGS ARE TO BE CENTERED IN THE ROOMS, UNLESS NOTED OTHERWISE.

12. LOCATE LIGHT FIXTURES, SPRINKLER HEADS, FIRE ALARM EQUIPMENT, AND DEVICES IN THE CENTER OF THE CEILING PANELS UNLESS NOTED OTHERWISE.

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13. CEILING MOUNTED SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 24 INCHES OF A SUPPLY OR RETURN GRILLE.

DIVISION 9 - CONTINUED

- 14. SUSPENDED CEILING GRIDS SHALL NOT BE INSTALLED UNTIL ALL ABOVE CEILING EQUIPMENT AND UTILITIES ARE COMPLETED. CEILING PANELS SHALL NOT BE INSTALLED UNTIL THE ARCHITECT HAS COMPLETED THE ABOVE CEILING INSPECTION. IF CEILING PANELS HAVE BEEN INSTALLED PRIOR TO REQUIRED INSPECTIONS, THE CONTRACTOR SHALL REMOVE AND REPLACE CEILING PANELS AT NO ADDITIONAL COST TO THE OWNER. SOILED OR DAMAGED CEILING PANELS AND GRIDS RESULTING FROM REWORK ARE CONSIDERED DEFECTIVE WORK AND SHALL BE REPLACED IMMEDIATELY AND PRIOR TO INSPECTIONS FOR SUBSTANTIAL COMPLETION. DO NOT INSTALL ACOUSTICAL PANEL CEILINGS UNTIL BUILDING IS ENCLOSED, PERMANENT HEATING AND COOLING EQUIPMENT IS IN OPERATION, AND EQUIPMENT SUCH AS LIGHT FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM THE CEILING SUSPENSION SYSTEM. EQUIPMENT SUCH AS LIGHT FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM THE CEILING SUSPENSION SYSTEM.
- 15. PAINT EXPOSED EDGES OF CUT TEGULAR CEILING PANELS TO MATCH. 16. COORDINATE ABOVE CEILING EQUIPMENT SO THAT NO CEILING IS LESS THAN 8 FEET ABOVE FINISHED FLOOR, UNLESS NOTED
- 17. INSTALL RESILIENT WALL BASE BEHIND MOVABLE EQUIPMENT AND ALL TOE SPACES OF CABINETWORK WHETHER OR NOT
- SHOWN ON THE DRAWINGS. 18. IN AREAS WITH EXPOSED STRUCTURE TO BE PAINTED, PAINTING SHALL INCLUDE EXPOSED CONDUIT, PIPING, AND
- DUCTWORK. ALL EXPOSED CONDUIT ON WALLS SHALL BE PAINTED TO MATCH THE WALLS. 19. UNLESS NOTED OTHERWISE, THE DESIGN INTENT IS TO PAINT ALL EXPOSED STEEL ITEMS ON THE EXTERIOR OF THE BUILDING
- WHETHER OR NOT INDICATED ON THE DRAWINGS. COORDINATE WITH PAINTING SPECIFICATIONS. 20. REFER TO PAINTING SPECIFICATIONS FOR TYPES OF PAINTS FOR VARIOUS SUBSTRATES.
- COORDINATE PAINTING SYSTEMS WITH SHOP-APPLIED PRIMERS SPECIFIED IN OTHER SPECIFICATION SECTIONS. 22. CONCRETE FLOORS IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND OTHER HABITABLE SPACES WHERE NO FLOOR FINISH MATERIAL IS SCHEDULED SHALL BE SEALED WITH A POLYAMIDE EPOXY SEALER. REFER TO HIGH PERFORMANCE COATING
- 23. UNLESS NOTED OTHERWISE, METAL DOOR FRAMES, HOLLOW METAL DOORS, MISCELLANEOUS STEEL FABRICATIONS, EXPOSED METAL STAIRS, AND STEEL HANDRAILS ARE TO BE PAINTED. REFER TO PAINTING SPECIFICATIONS FOR TYPES OF
- 24. WALLS IN FOOD SERVICE AREAS SHALL BE SMOOTH AND PINHOLE FREE. WHEN APPLICABLE, APPLY SMOOTH THIN COAT PLASTER FINISH ON CMU WALLS PRIOR TO PAINTING.
- 25. UNLESS NOTED OTHERWISE, ALL LEFT OVER FINISH MATERIALS AND UNOPENED CONTAINERS SHALL BE TURNED OVER TO OWNER IN ADDITION TO EXTRA MATERIALS SPECIFIED IN RESPECTIVE SECTIONS. 26. ALL EXTERIOR STEEL TO BE GALVANIZED U.N.O. ITEMS DESIGNATED FOR ADDITIONAL PAINT COATING MUST BE PROPERLY

DIVISION 10

- 1. THE INTENT IS TO LOCATE PORTABLE FIRE EXTINGUISHERS SO MAXIMUM COVERAGE DOES NOT EXCEED NFPA 10
- REQUIREMENTS FOR THE TYPES OF EXTINGUISHERS SPECIFIED. IF THE CONTRACTOR DETERMINES THE DRAWING LOCATIONS DO NOT COMPLY, SUBMIT ALTERNATE LAYOUT TO ARCHITECT FOR APPROVAL PRIOR TO ROUGH IN. WHEN INTERIOR ROOM SIGNS ARE SPECIFIED, CONTRACTOR SHALL VERIFY FINAL ROOM NAMES WITH OWNER PRIOR TO
- 3. ALL EQUIPMENT DESIGNATED TO BE RECESSED IN RATED WALLS MUST CARRY AN EQUIVALENT RATING, WHETHER OR NOT IT

DIVISION 14

IS SPECIFIED.

1. UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CERTIFY THAT THE HOISTWAY. ELEVATOR PIT, AND MACHINE ROOM LAYOUT, INCLUDING DOOR LOCATION, SIZE, AND SWING, LOCATIONS OF ALL WALL MOUNTED ELECTRICAL DEVICES, AND DIMENSIONS, AS SHOWN ON THE CONTRACT DOCUMENTS, AND ELECTRICAL SERVICES SHOWN AND SPECIFIED, ARE ADEQUATE FOR THE ELEVATOR SYSTEM BEING PROVIDED. IF ANY OF THE ABOVE REFERENCED ITEMS DO NOT COMPLY WITH THE ACTUAL ELEVATOR BEING SUPPLIED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION. AFTER INSTALLATION HAS BEGUN, THE CONTRACTOR ASSUMES ALL ADDITIONAL COSTS FOR INADEQUATE SYSTEMS AND SERVICES.

DIVISION 15: SEE MECHANICAL DRAWINGS

DIVISION 16: SEE ELECTRICAL DRAWINGS

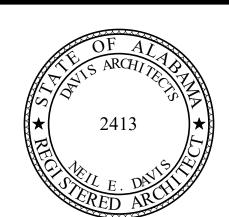
DEMOLITION NOTES:

- CONTRACTOR SHALL SUBMIT A DEMOLITION SEQUENCING PLAN AND SEEK WRITTEN APPROVAL FROM THE ARCHITECT OR OWNER PRIOR TO START OF DEMOLITION. DO NOT BEGIN DEMOLITION UNTIL ITEMS TO BE SALVAGED HAVE BEEN REMOVED.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO BE DEMOLISHED AND NOTIFY THE ARCHITECT OR OWNER OF DISCREPANCIES IN WRITING PRIOR TO START OF DEMOLITION
- PRIOR TO DEMOLITION, COVER AND PROTECT EXISTING FINISHES AND EQUIPMENT TO REMAIN PROJECTS OF A HISTORIC NATURE SHALL REQUIRE SPECIAL PROTECTION AND TREATMENT PROCEDURES. COORDINATE WITH
- OWNER WHO WILL ESTABLISH SPECIAL PROCEDURES FOR DISMANTLING AND SALVAGE OF DESIGNATED ITEMS. CONTRACTOR SHALL TAKE CARE NOT TO VOID AND EXISTING WARRANTIES ADJACENT TO DEMOLITION WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE DISCOVERED, CONTACT OWNER AND ARCHITECT HAZARDOUS MATERIALS WILL BE REMOVED UNDER A SEPARATE CONTRACT.

CONTRACTOR SHALL SUBMIT A WRITTEN SURVEY OF EXISTING CONDITIONS FOLLOWING DEMOLITION, IF DIFFERENT THAN

THE CONTRACT DOCUMENTS, NOTING UNACCEPTABLE CONDITIONS, IF ANY, SUCH AS FLOOR LEVELNESS, FLOOR FLATNESS,

- AND UNACCEPTABLE FINISHES NOTED TO REMAIN. MAINTAIN BUILDING IN WEATHERTIGHT CONDITION AT ALL TIMES DURING DEMOLITION.
- PATCHING AND REPAIRS SHALL MATCH ADJACENT MATERIALS IN FINISH AND CONSTRUCTION. 10. ITEMS NOT DESIGNATED FOR SALVAGE OR REMOVAL BY OWNER ARE THE RESPONSIBILITY OF THE CONTRACTOR FOR REMOVAL AND DISPOSAL



ORANGE BEACH RECREATION **COMPLEX NEW ADULT FITNESS CENTER**



CITY OF ORANGE BEACH ORANGE BEACH, AL



CITY OF ORANGE BEACH PO BOX 458 ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222 ATTN: STED MCCOLLOUGH

120 23RD STREET SOUTH BIRMINGHAM, AL 35233 205-322-7482 ATTN: JIM HARTSELL / JEFFREY MENASCO CIVIL ENGINEER

DAVIS ARCHITECTS, INC.

SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN STRUCTURAL ENGINEER

ATTN: KEITH OWENS / MARK BOGER **MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING** 600 AZALEA ROAD,

300 20TH ST. N., SUITE 100

BIRMINGHAM, AL 35203

ATTN: CHRIS DEARMON / VAN SIMPSON FIRE PROTECTION ENGINEER **GULF STATES ENGINEERING** 600 AZALEA ROAD, **MOBILE**, **AL** 36609

MOBILE, AL 36609

251-460-4646

251-460-4646

MBA ENGINEERS

205-323-6385

ELECTRICAL ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, **MOBILE**, **AL** 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

ATTN: TOM WADE / BRIAN DOVE

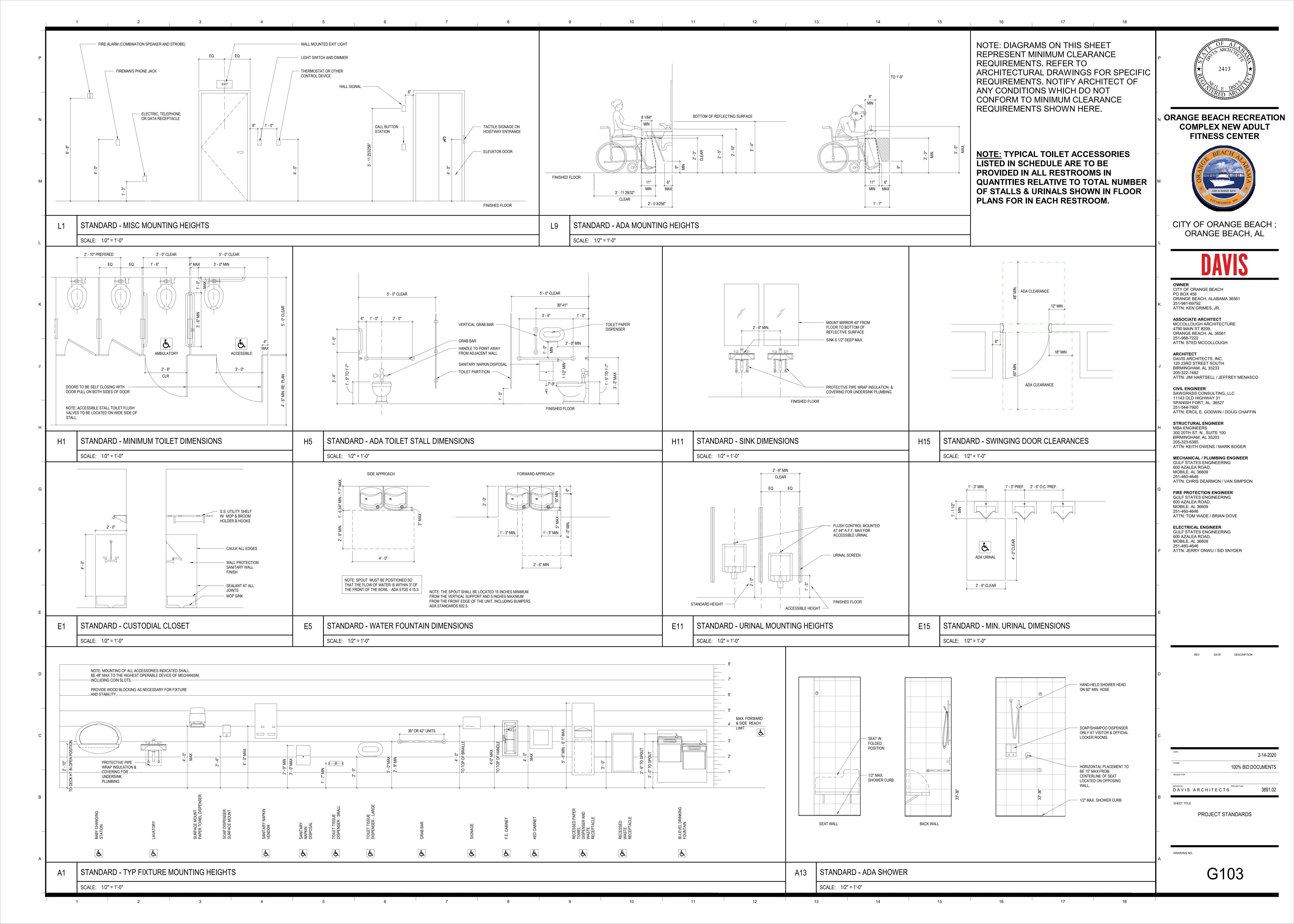
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N ORANGE BEACH RECREATION
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FITNESS CENTER



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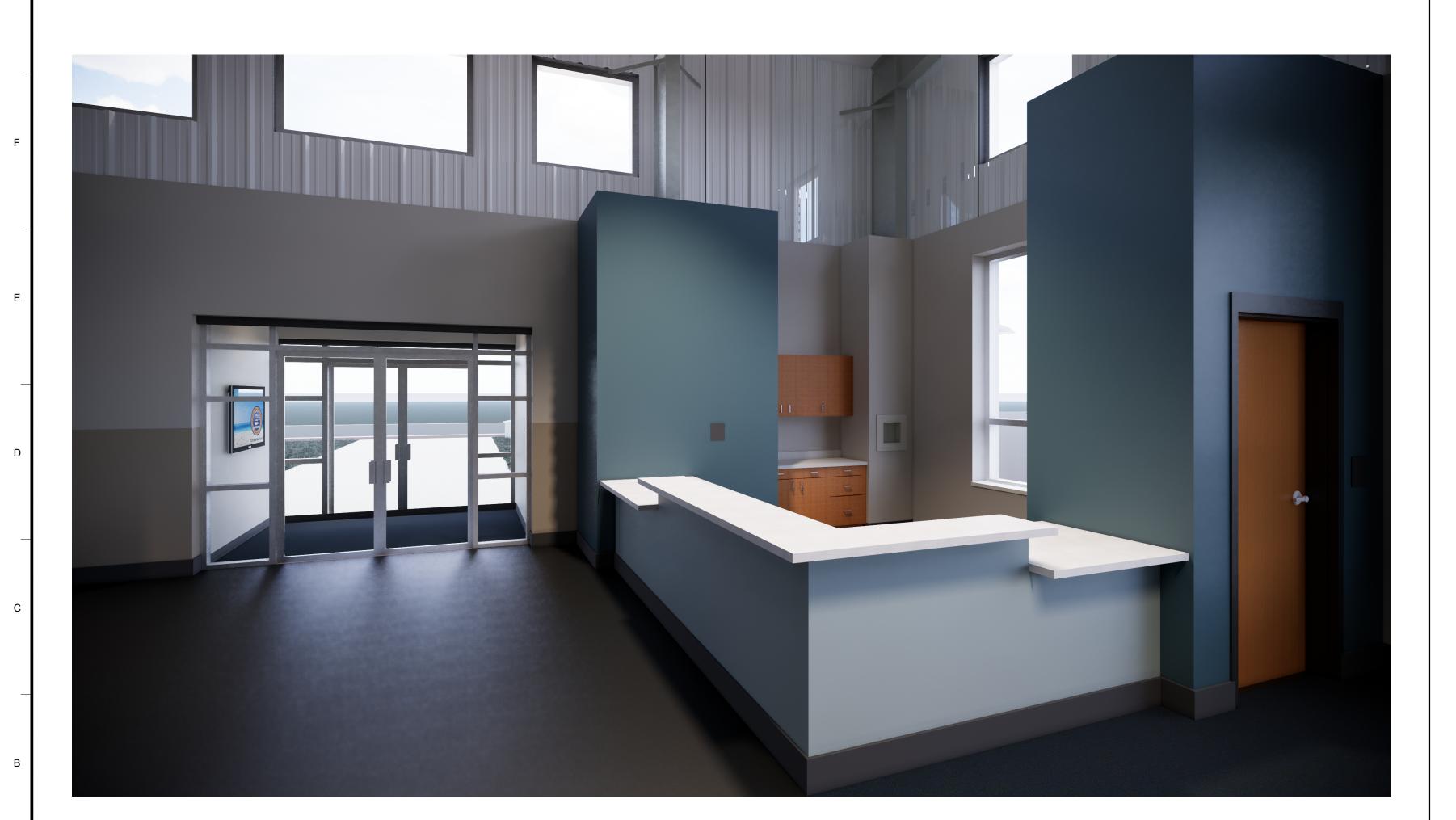
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EXTERIOR VIEW - OVERALL BIRDSEYE





INTERIOR VIEW - WEIGHT ROOM
H10 INTERIOR VIEW - WEIGHT ROOM





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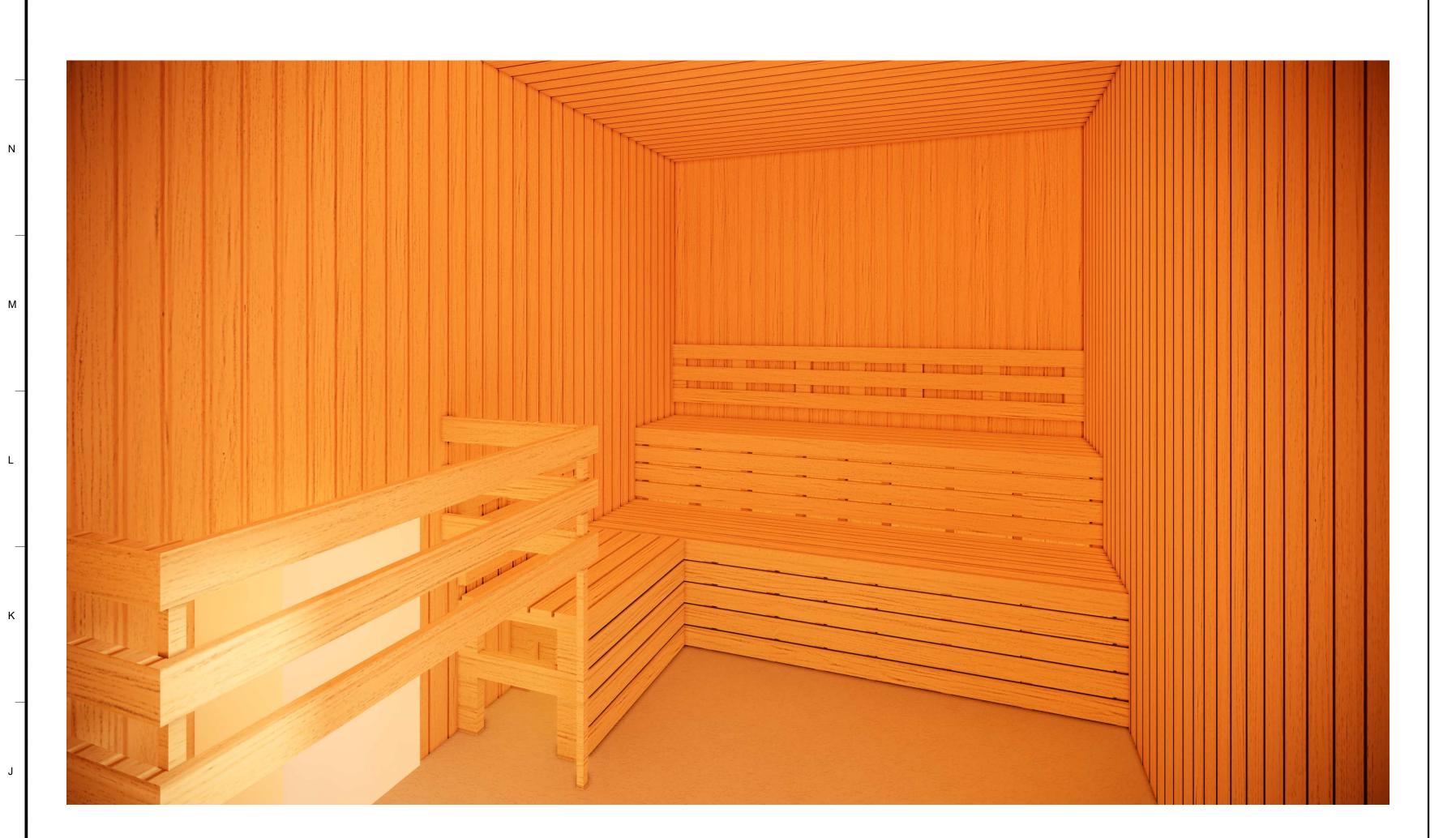
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INTERIOR VIEW - SAUNA H10 INTERIOR VIEW - SHOWERS





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BUILDING PERSPECTIVES

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A1 INTERIOR VIEW - MUTLI-FITNESS SPACE

A10 INTERIOR VIEW - LOCKERS

G112

CODE SUMMARY APPLICABLE CODES 2018 (IBC) INTERNATIONAL BUILDING CODE 2018 (IECC) INTERNATIONAL ENERGY CONSERVATION CODE 2018 (IPC) INTERNATIONAL PLUMBING CODE 2018 (IGC) INTERNATIONAL FUEL GAS CODE 2018 (IMC) INTERNATIONAL MECHANICAL CODE 2017 (NEC) NATIONAL ELECTRICAL CODE 2018 (IFC) INTERNATIONAL FIRE CODE 2013 NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72) ANSI/ASHRAE/IESNA STANDARD 90.1-2013 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL ANSI A117.1 -2018 ACCESSIBLE AND USABLE BUILDINGS 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN PROJECT PROPERTIES PREMISE - THIS PROJECT WILL INCLUDE A NEW ONE STORY ADULT FITNESS CENTER INCLUDING OPEN

FLOOR PLAN, WITH MULTI-PURPOSE EXERCISE SPACE, LOCKER ROOM WITH SAUNAS, RESTROOMS, MINIMAL STORAGE AND GENERAL FUNCTION SPACES. BUILDING - GC WILL DEMOLISH A PORTION OF AN EXISTING PLAYGROUND SITE WHICH PREVIOUSLY

SERVED A DAY CARE FACILITY LOCATED NEAR THE BUILDINGS NEW SITE. THE MODIFIED SITE WILL

NOW INCLUDE A NEW PRE-ENGINEER METAL ADULT FITNESS BUILDING, MECHANICAL PAD

ENCLOSURE AND OPEN AIR CANOPY CONNECTOR TO THE ADJACENT BUILDING.

SITE - WILL INCLUDE SELECTIVE DEMOLITION OF THE EXISTING SITE, ADJUSTING GRADE IS MINIMAL. NEW SITE WORK WILL INCLUDE NEW SITE WALKS, NEW LANDSCAPING, ADDITION TO THE EXISTING PARKING AND EXPANSION OF THE LOCAL DETENTION POND.

(ALL CODE SECTIONS CITED IN THE FOLLOWING ANALYSIS WILL BE BASED ON THE IBC UNLESS NOTED OTHERWISE.)

SINGLE USE OCCUPANCY CLASSIFICATIONS:	
NEW ADULT FITNESS CENTER PRIMARY OCCUPANCY: INDOOR FITNESS CENTER	A-3
INCIDENTAL OCCUPANCIES	N/A
ACCESSORY USE OCCUPANCIES: STORAGE OFFICES, KITCHEN < 50 OCC.	S B

II-B CONSTRUCTION AND THE BUILDING IS FULLY SPRINKLED (NFPA 13)

BUILDING HEIGHT & STORIES:
ALLOWABLE HEIGHT/STORIES:
ASSEMBLY (A-3)

ACTUAL AREA:

75 FT / 3 STORIES (SECTION 504.2) 32' - 3" FT MAX / 1 STORY

ACTUAL HEIGHT/STORIES: ALLOWABLE AREA: ASSEMBLY (A-3)

38.000 FT² 20.996 FT²

PASSIVE FIRE RESISTANCE:

STRUCTURAL FRAME

CONNECTING TO COLUMNS,

CARRYING GRAVITY LOADS)

INTERIOR BEARING WALLS

EXTERIOR BEARING WALLS

IDENTIFICATION OF FIRE RATED WALLS WITH SIGNS OR STENCILING: SECTION 703.7 REQUIRES FIRE RESISTIVE WALLS TO BE

0 HOUR (TABLE 601) INDIVIDUALLY PROTECTED (COLUMNS, BEAMS AND GIRDERS BEARING WALLS AND DIAGONALS

0 HOUR (PER TABLE 601) (EXTERIOR WALLS SHOULD BE DESIGNED BASED ON TABLE 602 BASED ON FIRE SEPARATION)

1 HOUR TABLE 602 (W/OUT PROTECTED OPENINGS) | THE COMPLETED BUILDING DESIGN NORTH EXTERIOR WALL ALL OTHER EXTERIOR WALLS 0 HOURS

ROOF CONSTRUCTION 0 HOUR (TABLE 601). FLOOR /EQUIPMENT PLATFORM 0 HOUR AND NON-COMBUSTIBLE ROOF COVERING CLASS C (TABLE 1505.1) 0 HOUR (PER TABLE 601) INTERIOR NON-BEARING WALLS

EXTERIOR NON-BEARING WALLS (EXTERIOR WALLS SHOULD BE DESIGNED BASED ON TABLE 602 BASED ON FIRE SEPARATION AND OTHER AREAS WITHIN THE CODE) 0 HOURS ALL NON-BEARING EXTERIOR WALLS

0 HOUR (NOT APPLICABLE)

0 HOUR (SECTION 508 & TABLE 508.4)

0 HOUR STORAGE ROOMS TABLE 602: FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE

RATION - SEE LIFE SAFETT SITE PLANS.	
	EXTERIOR WALL FIRE RESISTANCE
IRE SEPARATION DISTANCE (FT)	RATING PER FIRE SEPARATION
X < 5	1 HOUR
5 ≤ x < 10	1 HOUR
10 <u><</u> X < 30	0 HOUR
X ≥ 30	0 HOUR

CONSTRUCTION MATERIALS REQUIREMENTS

OCCUPANCY SEPARATIONS

CORRIDORS

WALLS, FLOORS AND STRUCTURAL ELEMENTS: NONCOMBUSTIBLE (SECTION 602.2).

FIRE RETARDANT TREATED WOOD SHALL BE PERMITTED IN:

INTERIOR NONBEARING PARTITIONS WHERE THE REQUIRED FIRE RESISTANCE RATING IS 2 HOURS OR LESS. (SECTION 603.1, #1.1): PERMITTED. NONBEARING EXTERIOR PARTITIONS WHERE FIRE RATING IS NOT REQUIRED. (SECTION 603.1, #1.2): PERMITTED.

PLYWOOD WITHIN ROOF ASSEMBLIES: REQUIRED TO BE FIRE RETARDANT TREATED. (SECTION 603.1, #1.3): PERMITTED.

NONCOMBUSTIBLE (OR FIRE RETARDANT TREATED). 2X BLOCKING (SECTION 603.1, #14): PERMITTED. NOT REQUIRED TO BE FIRE-RETARDANT-

NO RIGID OR SPRAYED INSULATION IS USED IN THE PROJECT.

EXTERIOR SHEATHING (SECTION 602.4.2): : PERMITTED.

CHAPTER 7

TABLE 705.8: MAXIMUM AREA OF EXTERIOR WALL OPENING BASED ON FIRE SEPARATION DISTANCE

AND DEGREE OF OPENING PROTECTION - SEE LIFE SAFETY SITE PLANS. DEGREE OF OPENING PROTECTION FIRE SEPARATION DISTANCE (FT) UNPROTECTED, SPRINKLED (UP,S) NOT PERMITTED GREATER THAN 3 TO 5 **GREATER THAN 5 TO 10** 25% **GREATER THAN 10 TO 15** 45% GREATER THAN 15 TO 20 NO LIMIT GREATER THAN 20 TO 25 NO LIMIT GREATER THAN 25 TO 30 **GREATER THAN 30** NO LIMIT

GREATER THAN 30'-0" PUBLIC WAY/FIRE SEPARATION ON THE SOUTH, EAST AND WEST SIDES OF

GREATER THAN 1'-0" PUBLIC WAY/FIRE SEPARATION ON THE NORTH SIDE OF THE COMPLETED BUILDING DESIGN. SINGLE DOOR AND FRAME TO BE 1HR RATED.

706.1: EACH PORTION OF A BUILDING SEPARATED BY ONE OR MORE FIRE WALLS THAT COMPLY WITH THE PROVISIONS OF THIS SECTION SHALL BE CONSIDERED A SEPARATE BUILDING. 706.4: FIRE WALLS SHALL HAVE A FIRE RESISTANCE RATING

OF NOT LESS THAT REQUIRED BY TABLE 706.4:

ABOVE BOTH ADJACENT ROOFS

THE HIGHEST VALUE INDICATED.):

TABLE 1020.1. (NOT APPLICABLE TO PROJECT)

711 FLOOR AND ROOF ASSEMBLIES

	GROUP	FIRE RESISTANCE RATING (HOURS)
E)	A, B, E, H-4, I, R-1, R-2, U	3HR (NOT APPLICABLE TO PROJECT)
	IN TYPE II OR V CONSTRUCTION, WALLS SHALL BE PEF	RMITTED TO HAVE A 2-HOUR FIRE RESISTANCE RATING

706.6: FIRE WALLS SHALL INTEND FROM THE FOUNDATION TO A TERMINATION POINT NO LESS THAN 30 INCHES

707.4: FIRE BARRIERS, FIRE WALLS OR HORIZONTAL ASSEMBLIES, OR COMBINATION THEREOF, SEPARATING A SINGLE OCCUPANCY INTO DIFFERENT FIRE AREAS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THAT INDICATED IN TABLE 707.3.10 MIX OCCUPANCIES TO US

GROUP	FIRE RESISTANCE RATING (HOURS)
A, B, E, F-2, H-4, H-5, I, M, R, S-2	2HR (NOT APPLICABLE TO PROJECT)
708 FIRE PARTITIONS	
708.3 FIRE-RESISTANCE RATING. FIRE PARTITIONS SH	ALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS

THAN THOUR (NOT APPLICABLE TO PROJECT) 708.3 EXCEPTION 1. ALL CORRIDOR WALLS PERMITTED TO HAVE 1/2 HOUR FIRE RESISTANCE RATING BY

708.4 CONTINUITY. FIRE PARTITIONS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR/CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE OR TO THE FIRE-RESISTANCE-RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLY ABOVE, AND SHALL BE SECURELY ATTACHED THERE TO.

711.2 HORIZONTAL ASSEMBLIES: HORIZONTAL ASSEMBLIES SHALL COMPLY WITH 711.2.1 THROUGH 711.2.6. 711.2.2 CONTINUITY. ASSEMBLIES SHALL BE CONTINUOUS WITHOUT VERTICAL OPENINGS EXCEPT AS PERMITTED BY THIS SECTION AND 712.

711.2.4.5 SEPARATING INCIDENTAL USES. WHERE THE HORIZONTAL ASSEMBLY SEPARATES INCIDENTAL USES FROM THE REMAINDER OF THE BUILDING, THE ASSEMBLY SHALL HAVE A FIRE RESISTANCE RATING

INTERIOR WALL AND CEILING FINISH MATERIALS

WALL AND CEILING FINISH	ASTM E84 CLASSIFICATION
FLAME SPREAD 0-25, SMOKE DEVELOPMENT 0-450	CLASS A
FLAME SPREAD 26-75, SMOKE DEVELOPMENT 0-450	CLASS B
FLAME SPREAD 76-200, SMOKE DEVELOPMENT 0-450	CLASS C

TABLE 803.11 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY ROOMS AND INTERIOR EXIT GROUP STAIRWAYS, RAMPS, AND CORRIDORS **ENCLOSED EXIT PASSAGEWAYS SPACES**

FIRE PROTECTION SYSTEMS - AUTOMATIC SPRINKLER SYSTEM REQUIRED (SECTION 903.2.1.3

30.	STANDPIPES	NOT REQUIRED (SECTION 905
	FIRE EXTINGUISHERS	REQUIRED (SECTION 906)
	MANUAL FIRE ALARM SYSTEM	REQUIRED
	DULL STATIONS MAY BE OMITTED (SECTION 007.2.1 EV	CEDTION 2) ALADM MUST

PULL STATIONS MAY BE OMITTED (SECTION 907.2.1 EXCEPTION 2) ALARM MUST ACTIVATE BY SPRINKLER WATER FLOW; AND ONE FIRE ALARM BOX MUST BE PROVIDED (SECTION 907.2) REQUIRED (SECTION 907.2) VOICE EVACUATION

SPRINKLERS SMOKE- PROTECTED FACILITY REQUIRED (SECTION 1029.6.2.3) EXCEPTION 1: AUTOMATIC SPRINKLERS ARE NOT REQUIRED IN PRESS BOXES AND STORAGE FACILITIES LESS THAN 1,000 SQUARE FEET IN AREA.

MEANS OF EGRESS

ASSEMBLY (A-3)

TABLE 1004.1.2 OCCUPANT LOAD FACTORS	SQUARE FEET PER PERSON
ASSEMBLY (FIXED)	18" PER OCC.
ASSEMBLY (UNCONCENTRATED)	15 SF (NET)
BUSINESS	150 SF (GROSS)
EXERCISE	50 SF (GROSS)
LOCKERS	50 SF (GROSS)
STORAGE/MECHANICAL	300 SF (GROSS)

MINIMUM HEIGHT SECTION 1003 2 CORRIDORS AND ROOMS HEIGHT: 00 IN

SECTION 1003.2 - CORRIDORS AND ROOMS HE	:IGH1: 90 IN.
MINIMUM EGRESS WIDTH FOR OCCUPANCY SI	ERVED, SPRINKLED
1005.3.1 STAIRWAYS	0.2 INCH PER OCCUPANT
1005.3.2 OTHER EGRESS COMPONENTS	0.15 INCH PER OCCUPANT

408 OCCUPANTS REQUIRES 62 INCH CLEAR WIDTH 139 INCH CLEAR WIDTH PROVIDED TABLE 1006.3 -REQUIRED NUMBER OF EXITS OR ACCESS TO EXITS PER STORY 1-500 OCCUPANTS 2 EXITS REQUIRED

1009.1 ACCESSIBLE MEANS OF EGRESS. ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS. WHERE MORE THAN ONE MEANS OF EGRESS

ARE REQUIRED BY SECTION 1006.3. 1009.2 CONTINUITY AND COMPONENTS. EACH REQUIRED ACCESSIBLE MEANS OF EGRESS SHALL BE CONTINUOUS TO A PUBLIC WAY AND SHALL CONSIST OF ACCESSIBLE ROUTES, INTERIOR EXIT STAIRWAYS, EXIT ACCESS STAIRWAYS, ELEVATORS, PLATFORM LIFTS, HORIZONTAL EXITS, RAMPS, AREAS OF REFUGE, AND EXTERIOR AREAS FOR ASSISTED RESCUE

CHAPTER 10 (CONTINUED)

1010 DOORS

MAXIMUM DOOR LEAF WIDTH = 48 INCHES MINIMUM DOOR LEAF WIDTH = 36 INCHES MINIMUM CLEAR WIDTH = 32 INCHES MINIMUM CLEAR HEIGHT = 80 INCHES

1010.1.2.1 DIRECTION OF SWING. DOOR SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING A ROOM OR AREA CONTAINING AN OCCUPANT LOAD OF 50 OR MORE PERSONS

1010.7 THRESHOLDS. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2 INCH ABOVE THE FINISHED FLOOR OR LANDING

1010.1.8 DOOR ARRANGEMENT. SPACE BETWEEN TWO DOORS IN A SERIES SHALL BE 48 INCHES MINIMUM PLUS THE WIDTH OF A DOOR SWINGING INTO THE SPACE. DOORS IN A SERIES SHALL SWING EITHER IN

THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS 1010.1.9.1 HARDWARE. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWIRLING OF THE WRIST TO OPERATE THE DOOR

1013 EXIT SIGNS

1013.1 WHERE REQUIRED. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT CORRIDOR OR EXIT PASSAGEWAY IS MORE THAN 100 FEET OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICH EVER IS LESS FROM THE NEAREST VISIBLE EXIT SIGN

EXCEPTION 1. EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS

1014 HANDRAILS (NOT APPLICABLE TO PROJECT)

1014.2 HEIGHT. HANDRAIL HEIGHT, MEASURED ABOVE STAIR TREAD NOSING SHALL BE UNIFORM, NOT LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES

1014.3 HANDRAILS TYPE I. HANDRAILS WITH CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE

DIAMETER OF NOT LESS THAT 1 1/4 INCHES AND NOT GREATER THAN 2 INCHES

1014.7 CLEARANCE. CLEAR SPACE BETWEEN A HANDRAIL AND A WALL OR OTHER SURFACE SHALL BE NOT

1015 GUARDS (NOT APPLICABLE TO PROJECT)

1015.2 WHERE REQUIRED. GUARDS SHALL BE LOCATED ALONG OPEN SIDED WALKING SURFACES, INCLUDING MEZZANINES, EQUIPMENT PLATFORMS, AISLES, STAIRS, RAMPS, AND LANDINGS THAT LOCATED MORE THAN 30 INCHES MEASURED VERTICALLY TO THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36 INCHES HORIZONTALLY TO THE EDGE OF THE OPEN SIDE

1015.3 HEIGHT. REQUIRED GUARDRAILS SHALL NOT BE MORE THAN 48 INCHES HIGH

1015.4 OPENING LIMITATIONS. REQUIRED GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF 4. *1 UNISEX WATERCLOSET AND LAVATORY FIXTURES COUNTED WITHIN WOMEN PLUMBING QUANTITY A SPHERE 4 INCHES IN DIAMETER FROM THE WALKING SURFACE TO THE REQUIRED GUARDRAIL HEIGHT. 1017 EXIT ACCESS TRAVEL DISTANCE

MAX TRAVEL DISTANCE TO EXIT = 250 FT

20 FEET

TABLE 1017.2

LESS THAN 1 1/2 INCHES

OCCUPANCY GROUP A

1019 EXIT ACCESS STAIRS (NOT APPLICABLE TO PROJECT)

1019.3 - FLOOR OPENINGS CONTAINING EXIT ACCESS STAIRWAYS OR RAMPS SHALL BE ENCLOSED WITH A SHAFT ENCLOSURE CONSTRUCTED IN ACCORDANCE WITH SECTION 713.

1019.3 - EXCEPTION - 1 EXIST ACCESS STAIRWAYS AND RAMPS THAT SERVE OR ATMOSPHERICALLY COMMUNICATE BETWEEN ONLY TWO STORIES. SUCH INTERCONNECTED STORIES SHALL NOT BE OPEN TO OTHER STORIES.

NOTE SECTION 505.3 - STAIR SERVING THE EQUIPMENT PLATFORM SHALL NOT SERVE AS A PART OF THE MEANS OF EGRESS FROM THE BUILDING.

1020 CORRIDORS: (NOT APPLICABLE TO PROJEC^{*}

MAXIMUM DEAD IN CORRIDORS NOT TO EXCEED

TABLE 1020.1. REQUIRED FIRE RESISTANCE RATING GROUP A, GROUP B & GROUP S 0 HOURS (SPRINKLER) TABLE 1020.2 MINIMUM CORRIDOR WIDTH.

ANY FACILITY NOT LISTED 44 INCHES WITH AN OCCUPANT LOAD OF LESS THAN 50 36 INCHES ACCESS TO MEP EQUIPMENT 24 INCHES

ACCESSIBILITY

BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE ADOPTED IBC.

1105.1 PUBLIC ENTRANCES. AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE

CHAPTER 29 PLUMBING SYSTEMS

USE CLASSIFICATION

BASED ON TABLE 2902.1, THE CALCULATED LOAD OF AREAS CAN BE BASED ON ACTUAL ANTICIPATED USE FOR THE DETERMINATION OF PLUMBING FIXTURES ONLY. (SECTION 1004.1.1)

USE CLASSIFI	CATION		CLOS	SETS	LAVAT	ORIES	DRINKING	SERVICE	
			MALE	FEMALE	MALE	FEMALE	FOUNTAINS	SINK	
(A) ASSEMBLY	′ (A-3)		1 PER 125	1 PER 65	1 PE	R 200	1 PER 500	1	
									L
OCCUPANCY GROUP		TING & EW	WATER	CLOSETS	LAVAT	ORIES	DRINKING	SERVICE	
GROUP		PANCY OAD	М	F	М	F	FOUNTAINS	SINKS	
ASSEMBLY (A)		08	1.6	3.1	1.02	1.02	0.82	1 PER	М
AGGEMBET (A)	204 M	204 F	1.0	0.1	1.02	1.02	0.02	FLOOR	
	REQ	UIRED	2	4	2	2	1	1 PER FLOOR	_
		VIDED URES	4	4	2	2	4	1	

REQUIRED

LAVATORIES

PLUMBING COMMENTS AND NOTATIONS:

NEW GYM ADDITION.

- 1. SEE OCCUPANCY COUNT PER OCCUPANCY USE ON G1.1 TOTAL OCCUPANCY FOR PLUMBING FIXTURES IS BASED ON THE COMBINED OCCUPANTS FOR THE EXISTING RECREATION CENTER AND
- URINALS MAY BE USED FOR UP TO 67% OF THE WATER CLOSETS IN ASSEMBLY AND EDUCATIONAL OCCUPANCIES. OTHERWISE URINALS MAY BE USED FOR UP TO 50% OF THE WATER CLOSETS (2015
- IPC SECTION 424.2) 3. FAMILY / UNISEX TOILETS REQUIRED WHEN AN AGGREGATE OF 6 OR MORE ASSEMBLY TOILET FACILITIES ARE REQUIRED (SECTION 1109.2.1) - NOT APPLICABLE



CITY OF ORANGE BEACH

PO BOX 458

ORANGE BEACH RECREATION

COMPLEX NEW ADULT

FITNESS CENTER

CITY OF ORANGE BEACH

ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR. **ASSOCIATE ARCHITECT**

MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222 ATTN: STED MCCOLLOUGH

ARCHITECT DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH BIRMINGHAM, AL 35233 205-322-7482 ATTN: JIM HARTSELL / JEFFREY MENASCO

CIVIL ENGINEER

SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

STRUCTURAL ENGINEER MBA ENGINEERS 300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646

ATTN: CHRIS DEARMON / VAN SIMPSON

FIRE PROTECTION ENGINEER **GULF STATES ENGINEERING** 600 AZALEA ROAD, MOBILE, AL 36609

ATTN: TOM WADE / BRIAN DOVE **ELECTRICAL ENGINEER GULF STATES ENGINEERING** 600 AZALEA ROAD, MOBILE, AL 36609

ATTN: JERRY ONWU / SID SNYDER

251-460-4646

251-460-4646

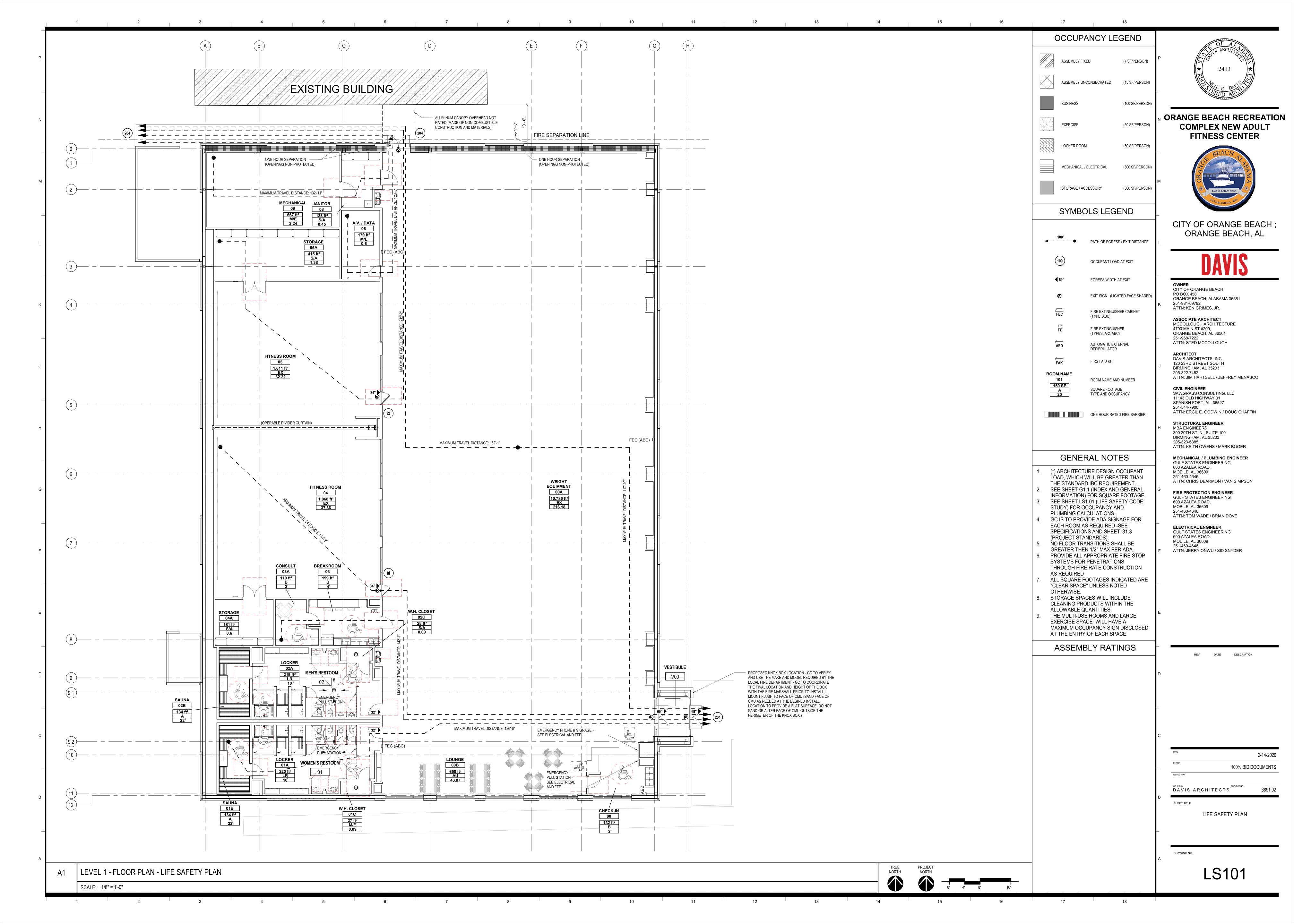
REV DATE DESCRIPTION

2-14-2020 100% BID DOCUMENTS

DAVIS ARCHITECTS

CODE STUDY

LS001



EROSION & SEDIMENTATION NOTES

- ALL DRAINAGE SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS SHOWN TO CONTROL EROSION. 2. SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.
- 3. DISTURBED AREAS SHALL BE VEGETATED AFTER CONSTRUCTION.
- 4. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
- 5. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
- A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
- B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.
- 6. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION LAWS,
- 7. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.
- 8. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
- 9. CONSTRUCT SILT FENCE ALONG THE DOWNSTREAM SIDE OF ALL PROPOSED FILL CONSTRUCTION.
- 10. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- 11. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR LOCAL JURISDICTIONAL INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 12. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. IN THE DETENTION POND, SILT SHALL BE REMOVED WHEN A DEPTH OF 18" HAS ACCUMULATED AT THE WEIR.
- 13. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR ACCEPTANCE.
- 14. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
- 15. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
- 16. TREE PROTECTION AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 17. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING, NO GRADING SHALL BE DONE UNTIL SILT BARRIER AND DETENTION FACILITIES ARE CONSTRUCTED.
- 18. ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER
- CONSTRUCTION OR GRADING.
- 19. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS POSSIBLE.
- 20. ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE.
- 21. GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH GRASS IN KIND. IN AREAS OF INDECIPHERABLE GRASSES-USE FESCUE.
- 22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM REQUIRED MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES TO ENSURE THEIR FUNCTION AT ALL TIMES.
- 23. LENGTH OF RIP RAP AREA SHALL BE 6(SIX) TIMES THE DIAMETER OF THE STORM DRAIN PIPE. WIDTH OF RIP RAP AREA SHALL BE THREE(3) TIMES THE DIAMETER AT THE MOUTH OF THE PIPE AND TWO(2) TIMES THE DIAMETER AT THE DOWNSTREAM END.

EXISTING IRRIGATION NOTES:

- 1. CONTRACTOR MUST FIELD VERIFY THE LOCATION OF ANY EXISTING IRRIGATION LINES, HEADS, VALVES, METERS AND CONTROLLERS WITHIN THE AREA OF CONSTRUCTION PRIOR TO START OF DEMOLITION.
- 2. THE CONTRACTOR SHALL CUT AND CAP ANY LINES THAT EXTEND INTO THE AREA OF CONSTRUCTION SO THAT THE SYSTEM CAN REMAIN OPERATIONAL WHILE CONSTRUCTION TAKES PLACE.
- 3. THE CONTRACTOR SHALL CUT AND CAP ALL IRRIGATION LINES SO THAT THEY STAY 20 FEET FROM THE FACE OF
- ANY BUILDING. 4. ANY SPRINKLER HEADS WITHIN THE LIMITS OF CONSTRUCTION THAT POSE A PROBLEM TO THE STAGING AREA OR EQUIPMENT SHALL BE TEMPORARILY REMOVED AND SALVAGED. THEIR LOCATION SHALL BE MARKED SO THAT ONCE THE CONSTRUCTION IS COMPLETE THE CONTRACTOR WILL REINSTALL THE HEADS AND BRING THEM BACK TO
- 5. THE CONTRACTOR SHALL REMOVE AND SALVAGE ANY IRRIGATION CONTROLLERS, HEADS, VALVES AND METERS THAT ARE LOCATED WITHIN 20 FEET FROM A NEW BUILDING, UNLESS THEY ARE NOT IN CONFLICT WITH CONSTRUCTION OR HAVE A CHANCE OF BECOMING DAMAGED DUE TO THE USE OF ONSITE EQUIPMENT.
- 6. IN CASE A MAIN METER IS WITHIN THE AREA OF DEMOLITION THE CONTRACTOR MUST RUN A NEW LINE OFF THE BUILDING MUST COORDINATE WITH THE ENGINEER AND OWNER SO THAT THE NEW METER AND VALVES CAN BE REINSTALLED BY THE OWNER ONCE THE CONSTRUCTION IS COMPLETE.

GENERAL NOTES

- 1. ALL SANITARY SEWER WORK ITEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ORANGE BEACH SEWER, CODE OF ORDINANCES, CHAPTER 74 UTILITIES AS AMENDED IN THE PROJECT SPECIFICATIONS AND CONTRACT PLANS. ALL CONSTRUCTION PERFORMED WITHIN THE EXISTING ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) RIGHT-OF-WAYS SHALL BE IN ACCORDANCE WITH THE ALDOT STANDARDS FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHT-OF-WAY GUIDELINES IN ADDITION, THE CONTRACTOR SHALL PROVIDE TO THE ALDOT A PERFORMANCE BOND AND TRAFFIC CONTROL PLANS PRIOR TO THE START OF WORK IN THIS PROJECT. WHEN CONFLICTS OCCUR BETWEEN REQUIREMENTS SHOWN ON THESE DRAWINGS/SPECIFICATIONS AND REGULATORY CRITERIA, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL. THE CONTRACTOR SHALL VERBALLY BRING ANY CONFLICT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY, FOLLOWED BY AN OFFICIAL WRITTEN NOTIFICATION WITHIN 24 HOURS.
- 2. IF NECESSARY, USE TEMPORARY SHEETING OR TRENCH BOXES TO MINIMIZE THE SIZE OF THE EXCAVATIONS AND TO PROTECT ADJACENT EXISTING ROADWAYS, UTILITIES AND OTHER FACILITIES. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER UNLESS THE CONTRACTOR IS DIRECTED TO LEAVE THE SHEETING IN PLACE.
- 3. REQUIRED SEWER LATERALS SHALL BE LAID TO THE EXISTING RIGHT OF WAY/PERMANENT EASEMENT LINE AND A CLEAN OUT INSTALLED.
- 4. WHERE WATER OR SEWER LINES ARE LAID IN LAWNS, MEDIAN STRIPS, ETC. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE EXISTING SOD, PLANTS, SHRUBS, ETC. AND STORE IN SUCH A MANNER AS TO PRESERVE SAME. AFTER LAYING SEWER OR WATER LINE, THE CONTRACTOR SHALL REPLACE ALL SOD, SHRUBS, ETC. TO THEIR ORIGINAL POSITION. ANY SOD OR PLANTS LOST OR DAMAGED BY REMOVAL SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 5. CONTRACTOR SHALL EXPLORE AHEAD A MINIMUM OF 200-FEET SO ADJUSTMENTS CAN BE MADE IN THE ALIGNMENT OF THE PIPE, IF NECESSARY, IN CASE OF UNKNOWN CONFLICTS WITH EXISTING STRUCTURES, UTILITIES AND/OR PIPING.
- 6. EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE IF THE LOCATIONS SHOWN ARE CORRECT AND TO DETERMINE IF THERE ARE ADDITIONAL LINES THAT ARE NOT SHOWN ON THE PLANS. ALSO, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITY LINES DURING CONSTRUCTION WITH NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITY OWNER FOR ANY LINES THAT MAY CONFLICT WITH THE CONSTRUCTION AND THEY WILL MAKE THE ADJUSTMENTS NECESSARY (IN THE OPINION OF THE ENGINEER). IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL UTILITY ADJUSTMENTS, AND THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS COORDINATION, OR ANY DELAYS RESULTING FROM UTILITY ADJUSTMENTS. FOR UTILITY LOCATION SERVICE, THE CONTRACTOR SHALL CALL 1-800-292-8525 AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY OWNER FOR THE COORDINATION OF ANY UTILITIES REQUIRING RELOCATION. THE ENGINEER RESERVES THE RIGHT TO RELOCATE OR ADJUST REQUIRED SANITARY SEWER LINE LOCATIONS AND WATER MAINS TO AVOID EXISTING UTILITIES LOCATED BY THE CONTRACTOR.
- 7. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF ALABAMA TO LOCATE PROPERTY CORNERS AND LAYOUT THE EASEMENTS AND SANITARY SEWER ALIGNMENT PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS TO THE EASEMENT DOCUMENTS OBTAINED BY THE OWNER, INCLUDING ALL ADDENDUMS, PROPERTY SPECIFIC ITEMS ARE LISTED ON THE PLANS FOR REFERENCE. HOWEVER IT IS THE CONTRACTOR S RESPONSIBILITY TO COMPLY WITH ALL EASEMENT AGREEMENTS.
- 8. ALL PROPERTY AND RIGHT-OF-WAY LINE LOCATIONS SHOWN ARE APPROXIMATE. PROJECT RIGHT-OF-WAY LINES SHALL BE SURVEYED AS NOTED ABOVE BY THE CONTRACTOR USING REFERENCES AS NECESSARY. PROJECT EASEMENTS SHALL BE LOCATED BY THE CONTRACTOR USING REFERENCES AS NOTED ON THE CONSTRUCTION PLANS.
- 9. ALL EXISTING BUILDINGS LOCATED WITHIN THE TEMPORARY OR PERMANENT EASEMENTS, EXCEPT THOSE NOTED ON THE PLANS TO BE REMOVED, SHALL BE LEFT IN PLACE. ANY DAMAGE TO THESE BUILDINGS BY THE CONTRACTOR'S OPERATIONS SHALL BE REMEDIED AT THE CONTRACTOR'S EXPENSE.
- 10. THE CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE DRAWINGS. RESTORATION WORK INCLUDES, BUT IS NOT LIMITED TO PAVEMENT, BASE, SUB GRADE, CONCRETE CURBS, THERMOPLASTIC TRAFFIC MARKINGS, SIDEWALKS, STORM WATER PIPE, ETC. ALL RESTORATION WORK SHALL BE PER ALDOT STANDARDS AND SPECIFICATIONS AND ALDOT PERMIT REQUIREMENTS IF THERE IS A CONFLICT WITH ALDOT REQUIREMENTS AND THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. IF ADDITIONAL TOPOGRAPHY OR ANY OTHER INFORMATION IS NECESSARY FOR THE CONTRACTOR TO RECONSTRUCT ALL FACILITIES TO PRE CONSTRUCTION GRADES AND DIMENSIONS, THE ACQUISITION OF SUCH ADDITIONAL INFORMATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT HIS EXPENSE. THE CONTRACTOR SHALL RECONSTRUCT ALL FACILITIES TO PRE-CONSTRUCTION GRADES AND DIMENSIONS, UNLESS OTHERWISE NOTED. WATER, FERTILIZE AND SUPPLY ALL VEGETATION REMOVED AND REPLACED AT NOT EXPENSE TO THE OWNER. IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 11. ALL TREES, SHRUBS, ETC., ALONG THE LINES OF CONSTRUCTION SHALL BE PROTECTED WHERE POSSIBLE UNLESS NOTED OTHERWISE ON THE DRAWINGS. NO TREES LARGER THAN THREE INCHES (3") IN DIAMETER SHALL BE DESTROYED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER.
- 12. ALL EXCESS MATERIAL FROM EXCAVATIONS AND BORING (INCLUDING REMOVAL OF EXISTING PAVEMENT, CURB AND GUTTER, AND SIDEWALKS) BELONG TO THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN ACCEPTABLE MANNER. COST FOR SUCH REMOVAL AND DISPOSAL IS A SUBSIDIARY OBLIGATION OF THE VARIOUS PAY ITEMS AND WILL NOT BE PAID FOR SEPARATELY.
- 13. ALL PIPES 16 INCHES AND LARGER SHALL HAVE MINIMUM COVER OF 48 INCHES. AND PIPES SMALLER THAN 16 INCHES SHALL HAVE A MINIMUM COVER OF 30 INCHES. EXCEPT WHERE OTHERWISE NOTED ON THE PLANS, AT STREET INTERSECTIONS OR WHERE THE NEW PIPELINE CROSSES EXISTING OR PROPOSED UNDERGROUND LINES AT THE APPROXIMATE SAME DEPTH AS THE NEW LINE THE COVER SHALL BE INCREASED AND THE NEW LINE LAID BELOW THE EXISTING OR PROPOSED PIPELINES. WHERE THE NEW PIPELINE CROSSES EXISTING OR PROPOSED DITCHES. THE TOP OF THE PIPE SHALL BE A MINIMUM OF 36 INCHES BELOW THE EXISTING OR PROPOSED INVERT OF THE DITCH. WHICHEVER IS LOWER. EXCEPT WHERE NOTED ON THE PLANS.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING PIPE FROM FLOATING. IF PIPE FLOATS DURING CONSTRUCTION, THE CONTRACTOR SHALL RELAY PIPE TO GRADE AT HIS EXPENSE
- 15. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTY AT ALL TIMES. CONSTRUCTION ALONG THE ROUTE SHOULD BE DONE IN STAGES TO MINIMIZE INCONVENIENCE TO LOCAL TRAFFIC. ALL FLAG MEN AND TRAFFIC CONTROL DEVICES NECESSARY SHALL BE FURNISHED BY THE CONTRACTOR. DETOUR PLANS SHALL BE SUBMITTED TO THE CITY ENGINEER AND /OR ALDOT FOR APPROVAL TRAFFIC REGULATIONS ON THE PROJECT SHALL BE IN ACCORDANCE WITH ALDOT.
- 16. THE CONTRACTOR SHALL AT ALL TIMES, GAIN PERMISSION FROM THE ENGINEER FOR ANY PROPOSED CONSTRUCTION THAT WILL AFFECT TRAFFIC ON ANY STREET AFTER GAINING PERMISSION FROM THE ENGINEER. THE CONTRACTOR SHALL REQUEST IN WRITING TO THE ENGINEER. AT LEAST THREE (3) DAYS PRIOR TO THE START OF CONSTRUCTION. FOR PERMISSION TO PROCEED WITH THE CONSTRUCTION. THE CONTRACTOR SHALL NOT START SAID CONSTRUCTION UNTIL PERMISSION IS RECEIVED AND ALL WARNING SIGNS, BARRICADES AND OTHER REQUIRED CONVENIENCES AND SAFETY DEVICES REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI. LATEST EDITION HAVE BEEN INSTALLED AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL AT ALL TIMES, MAINTAIN AT LEAST ONE LANE OF TRAFFIC ON THE STREET WHERE WATER MAINS AND SEWER LINES ARE BEING LAID. THE CONTRACTOR SHALL PROVIDE THE NECESSARY "EXPERIENCED FLAG MAN" TO DIRECT TRAFFIC.
- 17. AT NO TIME WILL A VALVE OF THE EXISTING WATER SYSTEM, BE OPERATED WITHOUT THE PRESENCE AND AUTHORIZATION OF AN AUTHORIZED EMPLOYEE OF THE CITY OF ORANGE BEACH OR ORANGE BEACH WATER AUTHORITY.
- 18. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONTROLS AND/OR STRUCTURES REQUIRED TO MAINTAIN SUITABLE AND SAFE WORKING CONDITIONS AT ALL TIMES. SUCH ITEMS SHALL BE REMOVED ONCE THAT PORTION OF WORK HAS BEEN COMPLETED.
- 19. SHOULD THE CONTRACTOR ELECT TO OBTAIN AREAS FOR THE PURPOSE OF STORING MATERIALS AND EQUIPMENT OR FOR CONDUCTING HIS WORK OPERATIONS, HE SHALL FURNISH THE OWNER AND ENGINEER A COPY OF THE AGREEMENT BETWEEN HIM AND THE OWNER OF THE PROPERTY PRIOR TO USING THE AREA (NO DIRECT PAYMENT). ANY CURB AND GUTTER, SIDEWALK, DRIVEWAY, ETC. DAMAGED BY THE CONTRACTOR WHEN HAULING MATERIALS OR MOVING EQUIPMENT IN OR OUT FROM THIS STORAGE AREA SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 20. THE OWNER RESERVES THE RIGHT TO DELETE, REDUCE AND/OR INCREASE ANY BID ITEM OR ITEM OF WORK. NO ADJUSTMENT WILL BE MADE TO THE OTHER BID ITEM PRICES DUE TO THESE
- 21. A MINIMUM HORIZONTAL DISTANCE OF FIVE (5) FEET SHALL BE MAINTAINED BETWEEN ALL WATER MAINS AND SANITARY SEWER LINES, UNLESS OTHERWISE UNAVAILABLE, IN LOCATIONS WHERE WATER MAINS MUST CROSS SANITARY SEWER TRUNK LINES. THE SEWER MAIN SHALL BE LAID AT SUCH ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS 18 INCHES ABOVE THE TOP OF THE SANITARY SEWERS. THIS VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE SEWER LINE.
- 22. THE CONTRACTOR SHALL NOTE THAT ALL WORK PERFORMED WITHIN PUBLIC OR PRIVATE RIGHT-OF-WAY OR EASEMENT AS ASSOCIATED WITH THE CONSTRUCTION OF THE NEW WATER AND/OR SEWER MAINS SHALL BE SUBJECT TO EROSION CONTROL PREVENTION TO PROTECT THE STABILITY OF ALL ROADS, STREETS, SIDEWALKS AND DRIVEWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE WORK AREA AT ALL TIMES DURING CONSTRUCTION. ALL WORK AND SITE RESTORATION SHALL BE GUARANTEED AS DEFINED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGE WHICH OCCURS TO ALL ROADWAYS, STREETS, SIDEWALKS AND DRIVEWAYS WHICH ARE A RESULT OF CONSTRUCTION ACTIVITY ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL NOT BE REIMBURSED FOR ANY ADDITIONAL WORK ASSOCIATED WITH RESTORATION AND MAINTENANCE OF THE WORK AREA DURING THE CONSTRUCTION AND/OR GUARANTEE PERIOD AS DEFINED IN THE SPECIFICATIONS.
- 23. SPECIAL EMPHASIS ON EXCAVATION SAFETY AND TRENCH CONSTRUCTION:
- A. OSHA'S EXCAVATION SAFETY STANDARDS 29, CFR PART 1926.650-652 SUBPART P. IS CONSIDERED AS COMPLIMENTARY TO THESE CONTRACT DOCUMENTS. IF THERE IS ANY DUPLICATION, REDUNDANCY OR CONFLICT BETWEEN THE STIPULATIONS OF THESE CONTRACT DOCUMENTS AND THOSE STANDARDS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
- B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EXCAVATIONS DO NOT ENDANGER WORKMEN, EXISTING STRUCTURES, UTILITIES, OR OTHER FACILITIES. IF SUCH CONDITIONS OCCUR WHICH MAY ENDANGER WORKMEN. EXISTING STRUCTURES, UTILITIES, OR OTHER FACILITIES, IMMEDIATELY INSTALL AND MAINTAIN ADEQUATE SHEETING AND BRACING PER OSHA SPECIFICATIONS CEASE ALL WORK UNTIL THE SHEETING AND BRACING HAS BEEN PROPERLY AND COMPLETELY INSTALLED. INSTALL THE SHEETING AND BRACING IN A MANNER THAT WILL ALLOW REMOVAL WITHOUT INJURING OR ENDANGERING AND COMPLETELY FILL ALL VOIDS CAUSED BY THE WITHDRAWAL OF SHEETING WITH SAND AND COMPACT TO A DEGREE EQUAL TO THE SURROUNDING SOIL. REMOVE THE SHEETING AS THE WORK PROGRESSES OR, AT THE DISCRETION OF THE ENGINEER, CUT THE SHEETING OFF BELOW FINISHED GRADE AND LEAVE IN PLACE.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND TEMPORARILY RELOCATING ALL INFORMATION AND TRAFFIC SIGNS DURING CONSTRUCTION. SIGN SHOULD BE VISIBLE TO MOTORIZED VEHICLES; REPOSITION SIGNS IN A PRE-CONSTRUCTION LOCATION IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED IN THESE AREAS. EXISTING STREET & ROAD NAMES SIGNS IN THE PROJECT AREAS SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLE TRAFFIC.
- 25. FOLLOWING FINAL ACCEPTANCE OF THIS PROJECT. THE CONTRACTOR SHALL FINALIZE AND SUBMIT TO THE ENGINEER A COMPLETE SET OF RECORD. DRAWINGS SHOWING ACTUAL QUANTITIES, LOCATION AND VALVE REFERENCES. THE ENGINEER WILL FURNISH THE CONTRACTOR AN "ISSUED FOR CONSTRUCTION" SET OF DRAWINGS TO BE USED FOR THIS PURPOSE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A RECORD DRAWING SET OF PLANS AS THE PROJECT PROGRESSES. PAY ESTIMATES SHALL NOT BE RECOMMENDED FOR PAYMENT UNTIL THE CONTRACTOR HAS DEMONSTRATED TO THE OWNER'S REPRESENTATIVE THAT THE RECORD DRAWINGS ARE BEING MAINTAINED.
- 26. THE CONTRACTOR SHALL BACKFILL ALL TRENCHES AT THE END OF EACH DAYS WORK NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. THE ENDS OF ALL PIPE SHALL BE PLUGGED AT THE CLOSE OF EACH DAY'S WORK.

CITY OF ORANGE BEACH UTILITY CONSTRUCTION NOTES

- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIS EQUIPMENT TO EXISTING SANITARY SEWER LATERALS, UTILITIES, CROSS-DRAIN PIPES, BOX CULVERTS AND HEADWALLS ALL DISTRIBUTED OR BROKEN PIPES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOWS THROUGH ANY EXISTING CULVERT, PIPE, CHANNELS AND STRUCTURES AND DIVERSION OF FLOWS IN THE CONSTRUCTION AREA AS NECESSARY DURING CONSTRUCTION WITH NO DIRECT PAYMENT. THE COST FOR THIS
- 3. ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES AS REQUIRED BY ADEM AND EPA AND THE CONTRACT SPECIFICATIONS TO CONTROL EROSION, SEDIMENTATION AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION CONSTRUCTION PRACTICES
- 4. CONSTRUCT TEMPORARY SEDIMENTATION BASINS OR EARTHEN BERMS AT DOWN-GRADIENT ENDS OF NEWLY GRADED AREAS TO PROVIDE FOR SEDIMENT AND TURBIDITY REMOVAL
- 5. LIMIT SITE CLEARING TO THOSE AREAS REQUIRED FOR A PARTICULAR PHASE OF CONSTRUCTION EXISTING TREES AND VEGETATION TO REMAIN WHEREVER POSSIBLE
- 5. TURBIDITY BARRIERS, HAY BALES AND OTHER EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETE AND THE POTENTIAL FOR EROSION IS
- . DO NOT EMPLOY SILT FENCES IN A MANNER TO CAUSE THEM TO ACT AS A DAM ACROSS PERMANENTLY FLOWING WATERCOURSES. USE SILT FENCES AT UPLAND LOCATIONS AND TURBIDITY BARRIERS IN PERMANENT WATER BODIES, REGARDLESS OF WATER DEPTH.
- TURBIDITY BARRIERS FOR STREAMS AND CREEKS MAY BE EITHER FLOATING OR STAKED TYPE OR ANY COMBINATION OF TYPES THAT WILL SUIT SITE CONDITIONS, AND MEET EROSION CONTROL AND

WATER QUALITY REQUIREMENTS. INSTALL POSTS IN STAKED TURBIDITY BARRIERS IN THE VERTICAL

9. DISTURBED AREAS WITHIN PERMANENT AND TEMPORARY EASEMENTS AND RIGHTS-OF-WAYS SHALL BE RESTORED TO PRE-EXISTING CONDITIONS OR BETTER BY INSTALLING TOPSOIL AND SOLID SOD IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE TYPE OF SOLID SOD SHALL MATCH

EXISTING SOD AS DETERMINED BY THE ENGINEER.

- 10. THE DEWATERING LIQUID SHALL BE TESTED FOR A TCLP AND FECAL AND RESULTS PROVIDED TO THE CITY FOR DISCHARGING INTO THE CITY'S STORM SEWER SYSTEM. ADDITIONALLY, THE CONTRACTOR SHALL NOT DISCHARGE TURBID DEWATERING LIQUID INTO THE CITY'S STORM WATER
- 1. ALL CONCRETE SHALL BE CLASS A, 3,000 PSI AT 28 DAYS COMPRESSIVE STRENGTH WITH A MAXIMUM SLUMP OF 4" UNLESS NOTED OTHERWISE. ALL EXPOSED CONCRETE TO HAVE A FINE BROOM
- 3. ALL DIMENSIONS ARE FACE OF CURB AND FACE OF BUILDING OR AS NOTED.
- PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION
- SPECIAL AND STANDARD HIGHWAY DRAWING MANUAL.
- TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION.

- WORK SHALL BE INCLUDED IN THE VARIOUS CONTRACT PAY ITEMS.

- POSITION UNLESS OTHERWISE NOTED.

SITE NOTES

- 2. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER OR TENANT.
- 4. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, SHALL BE
- 5. ALL SIDEWALK ENTRANCES AND EXITS SHALL HAVE TRUNCATED DOMES AS SPECIFIED IN SPECIAL DRAWING NO. SW-618, INDEX NO. 734 OF THE ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT)
- 6. THE CONTRACTOR SHALL SIZE, INSTALL, AND MAINTAIN ADEQUATE CONTROLS FOR THE SITE. REFER
 - **MOBILE**, **AL** 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER THE BENCHMARK WAS REFERENCED TO CONTINUOUS OPERATING REFERENCE STATION RTCM0960.

REV DATE DESCRIPTION

ORANGE BEACH RECREATION

COMPLEX NEW ADULT

FITNESS CENTER

CITY OF ORANGE BEACH;

ORANGE BEACH, AL

CITY OF ORANGE BEACH

ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT

ORANGE BEACH, AL 36561

ATTN: STED MCCOLLOUGH

DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH

BIRMINGHAM, AL 35233

11143 OLD HIGHWAY 31

SPANISH FORT, AL 36527

STRUCTURAL ENGINEER

300 20TH ST. N., SUITE 100

GULF STATES ENGINEERING

FIRE PROTECTION ENGINEER

ATTN: TOM WADE / BRIAN DOVE

GULF STATES ENGINEERING

BIRMINGHAM, AL 35203

SAWGRASS CONSULTING, LLC

ATTN: JIM HARTSELL / JEFFREY MENASCO

ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER

ATTN: CHRIS DEARMON / VAN SIMPSON

4790 MAIN ST #209,

251-968-7222

205-322-7482

CIVIL ENGINEER

251-544-7900

MBA ENGINEERS

600 AZALEA ROAD.

600 AZALEA ROAD.

ELECTRICAL ENGINEER

GULF STATES ENGINEERING

MOBILE, AL 36609 251-460-4646

600 AZALEA ROAD.

MOBILE, AL 36609 251-460-4646

205-323-6385

MCCOLLOUGH ARCHITECTURE

ORANGE BEACH, ALABAMA 36561

PO BOX 458

251-981-69792

2-14-2020 100% BID DOCUMENTS

DAVIS ARCHITECTS

SHEET TITLE CIVIL CONSTRUCTION NOTES

DRAWING NO.

Phone: (251) 544-7900

ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT

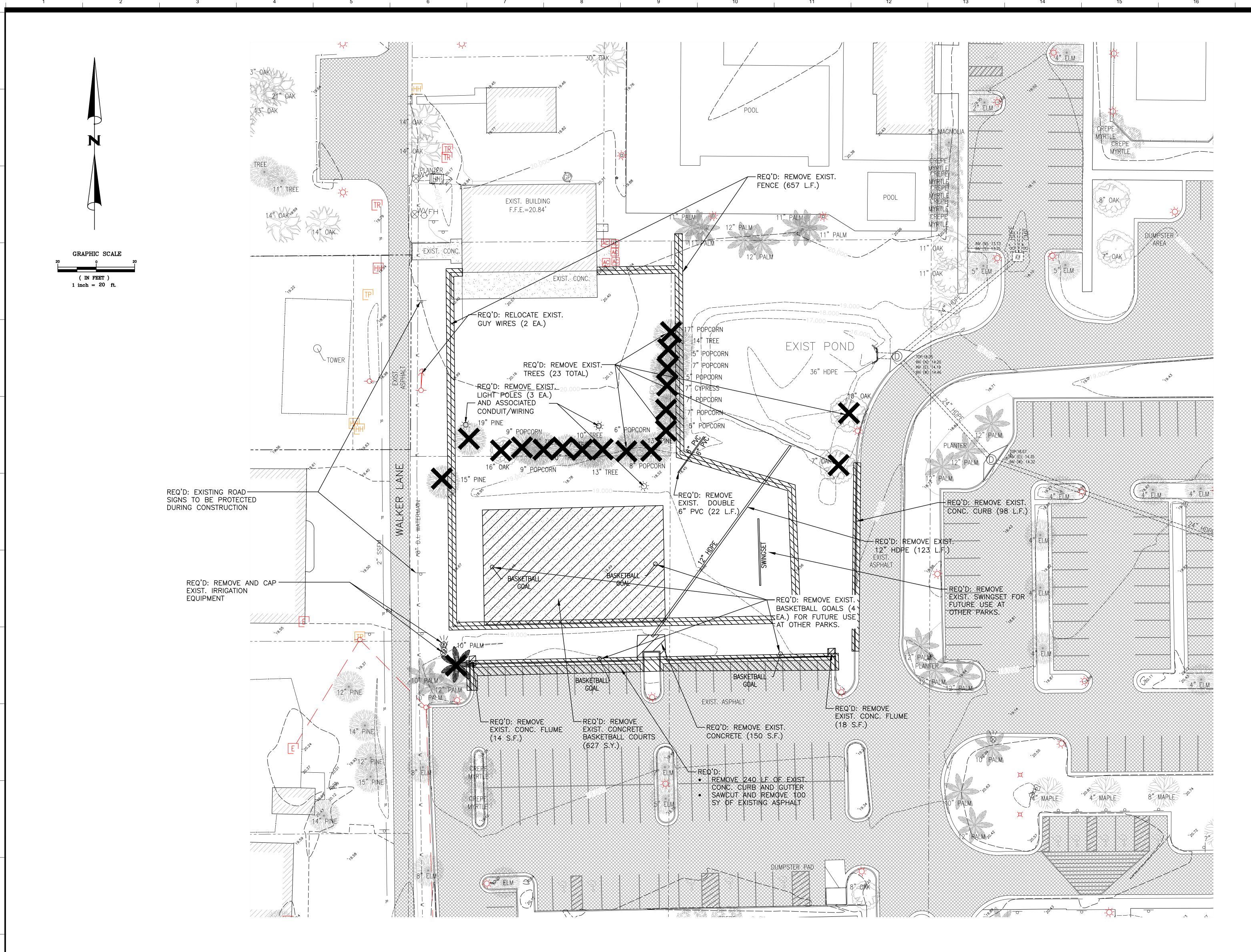
30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527

202 Government Street, Suite 225, Mobile, AL 36602

C100

C100 CIVIL CONSTRUCTION NOTES

C100/C901 | SCALE:N.T.S.





202 Government Street, Suite 225, Mobile, AL 36602

EXISTING CONDITIONS & REMOVAL

C200/C901 | SCALE: 1" = 20'

<u>LEGEND</u>

ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

CITY OF ORANGE BEACH PO BOX 458 ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222

ATTN: STED MCCOLLOUGH ARCHITECT DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH BIRMINGHAM, AL 35233 205-322-7482

CIVIL ENGINEER SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527

ATTN: JIM HARTSELL / JEFFREY MENASCO

251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN STRUCTURAL ENGINEER MBA ENGINEERS 300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203

ATTN: KEITH OWENS / MARK BOGER **MECHANICAL / PLUMBING ENGINEER** GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646

205-323-6385

ATTN: CHRIS DEARMON / VAN SIMPSON FIRE PROTECTION ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609

251-460-4646 ATTN: TOM WADE / BRIAN DOVE **ELECTRICAL ENGINEER** GULF STATES ENGINEERING 600 AZALEA ROAD,

MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

REV DATE DESCRIPTION

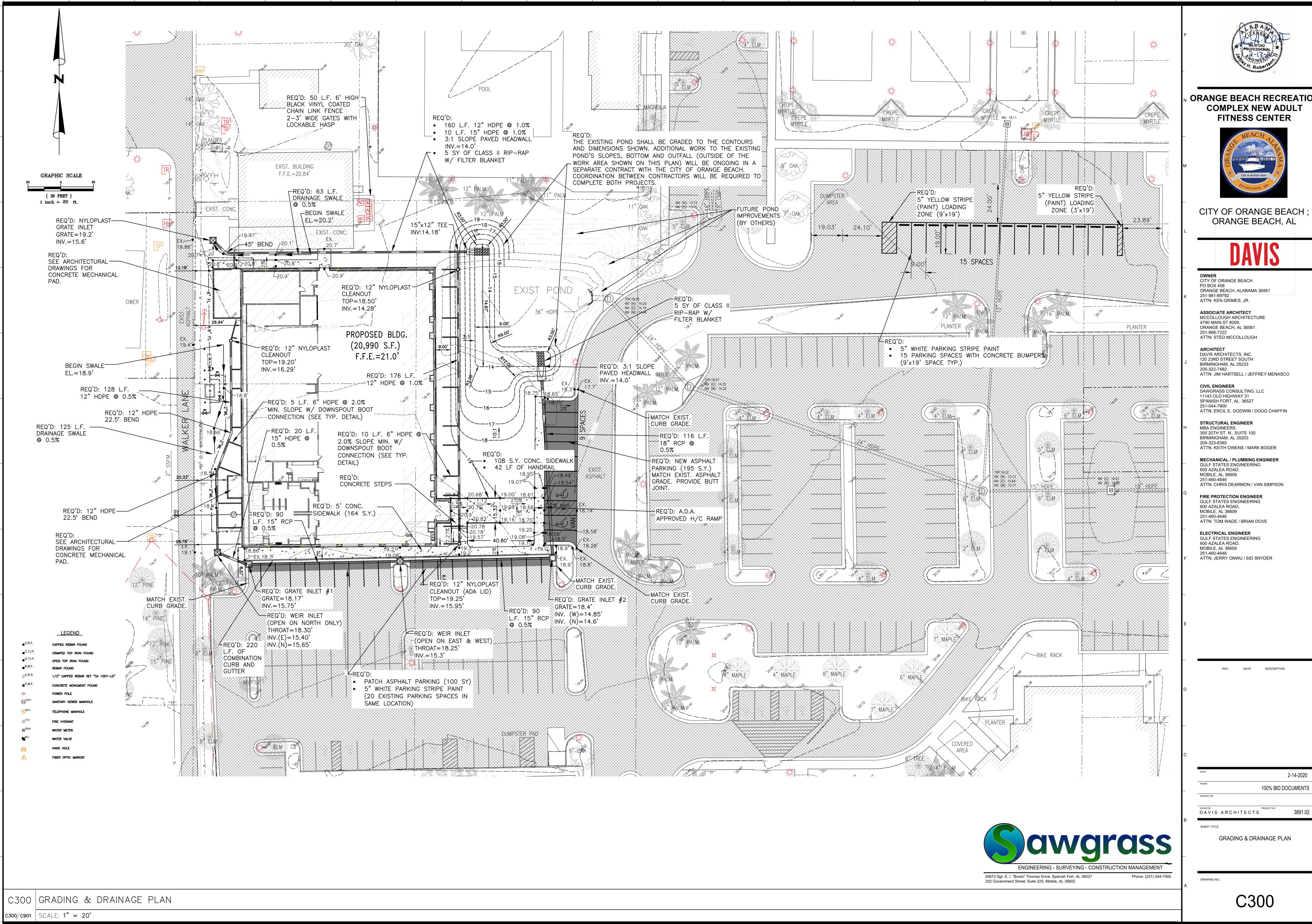
2-14-2020 100% BID DOCUMENTS

DAVIS ARCHITECTS

EXISTING CONDITIONS & REMOVAL PLAN

DRAWING NO.

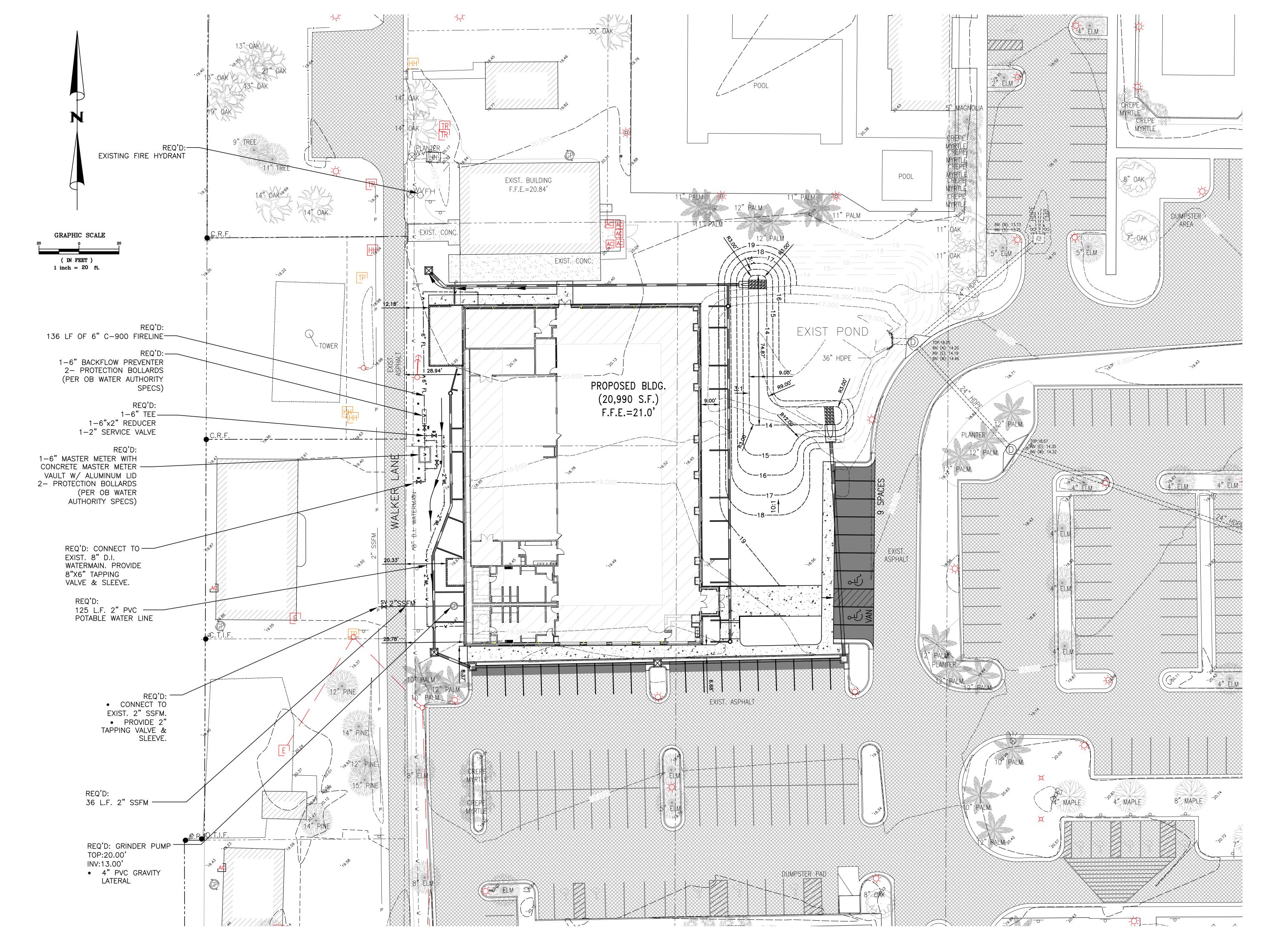
SHEET TITLE



ORANGE BEACH RECREATION COMPLEX NEW ADULT

CITY OF ORANGE BEACH;

2-14-2020





30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527

Phone: (251) 544-7900 202 Government Street, Suite 225, Mobile, AL 36602

<u>LEGEND</u>



ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

OWNER
CITY OF ORANGE BEACH
PO BOX 458
ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT
MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222 ATTN: STED MCCOLLOUGH

ARCHITECT
DAVIS ARCHITECTS, INC.
120 23RD STREET SOUTH
BIRMINGHAM, AL 35233 205-322-7482 ATTN: JIM HARTSELL / JEFFREY MENASCO

CIVIL ENGINEER SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

STRUCTURAL ENGINEER MBA ENGINEERS 300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: CHRIS DEARMON / VAN SIMPSON

FIRE PROTECTION ENGINEER
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600 AZALEA ROAD,
MOBILE, AL 36609 251-460-4646 ATTN: TOM WADE / BRIAN DOVE

ELECTRICAL ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

REV DATE DESCRIPTION

2-14-2020 100% BID DOCUMENTS

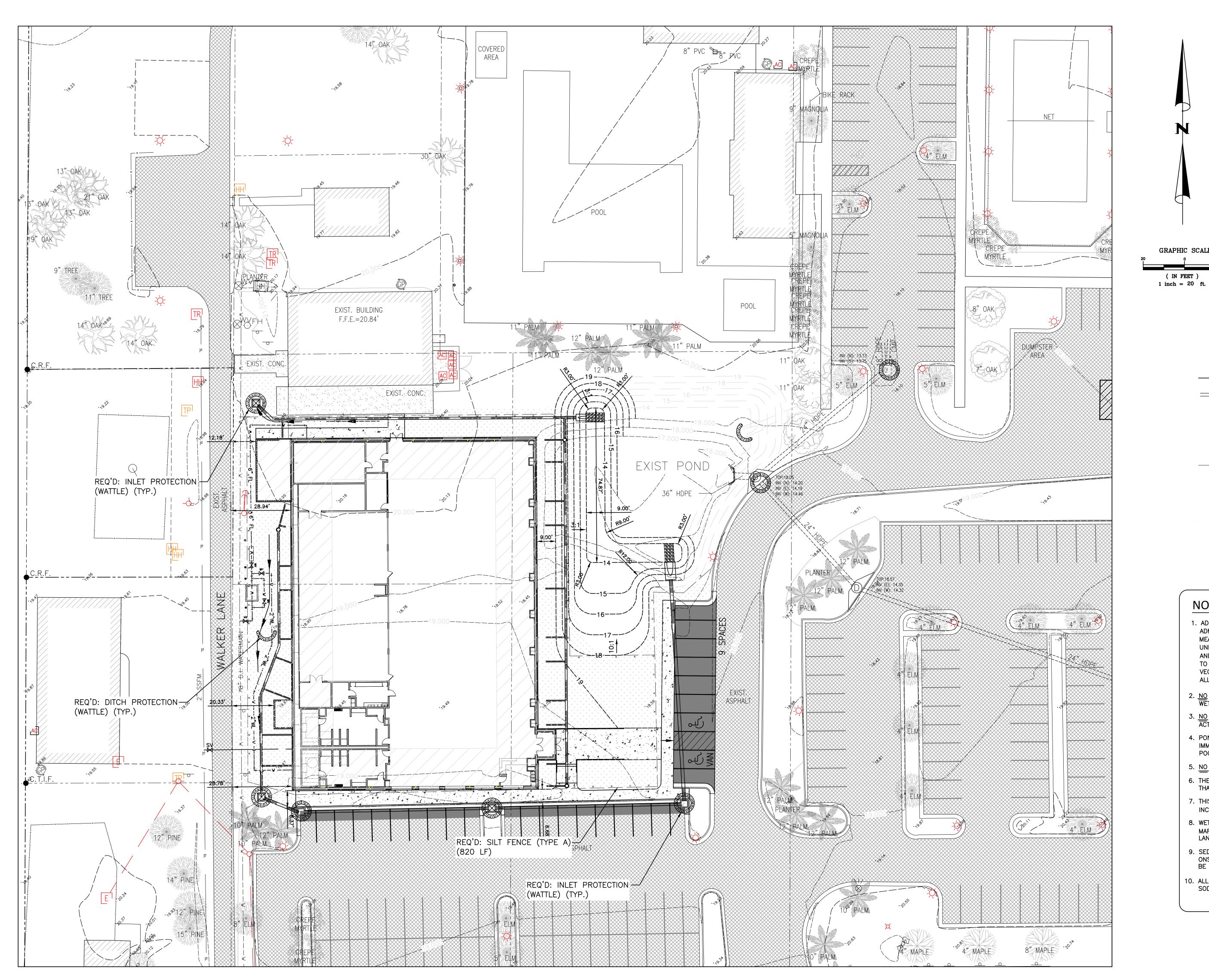
DAVIS ARCHITECTS

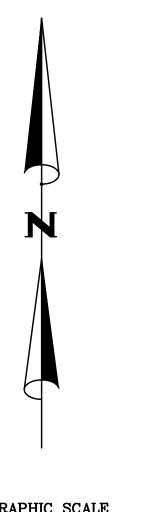
SHEET TITLE UTILITY PLAN

DRAWING NO.

C400/C901 | SCALE: 1" = 20'

C400 UTILITY PLAN





EROSION CONTROL LEGEND

—— — PROPERTY LINE EXISTING DRAINAGE PIPE PROPOSED INLET WATTLES PROPOSED DITCH PROTECTION (WATTLE) PROPOSED SILT FENCE (TYPE A) PROPOSED SOLID SOD

NOTES:

- 1. ADEM 13 DAY RULE APPLIES TO THIS PROJECT. ADEM ADMINISTRATIVE CODE r.335-6-12-.21(2)(b)5. REQUIRES MEASURES TO BE IMPLEMENTED ON ALL AREAS NOT UNDERGOING ACTIVE DISTURBANCE OR ACTIVE CONSTRUCTION AND PROGRESSIVE CONSTRUCTION FOR LONGER THAN 13 DAYS TO PREVENT/MINIMIZE EROSION AND ENSURE TIMELY TEMPORARY VEGETATIVE COVER, AND PERMANENT VEGETATION OR COVER OF ALL DISTURBED AREAS WHEN DISTURBANCE IS COMPLETE.
- 2. NO LAND DISTURBANCE IS PERMITTED IN THE VEGETATED WETLAND BUFFER ZONES.
- 3. NO ACTIVITY IS PERMITTED IN THE DELINEATED WETLAND. NO ACTIVITY WITHIN 10' OF WETLANDS PER WETLANDS ORDINANCE.
- 4. PONDS, DITCHES, AND SLOPES TO BE SOLID SODDED IMMEDIATELY UPON CONSTRUCTION. (ABOVE THE NORMAL POOL ELEVATION)
- 5. NO MECHANIZED EQUIPMENT IN THE WETLAND BUFFER.
- 6. THE CONTRACTOR SHALL TAKE ALL MEASURES TO ENSURE THAT SOD THRIVES AFTER INSTALLATION.
- 7. THIS SITE SHALL COMPLY WITH ALL CITY ORDINANCES, INCLUDING EROSION & SEDIMENTATION CONTROL AND WETLANDS.
- 8. WETLANDS SHALL BE DELINEATED/FLAGGED AND SHALL BE MARKED WITH BUFFER SIGNS PRIOR TO CONSTRUCTION AND/OR LAND DISTURBANCE.
- 9. SEDIMENT COLLECTED BY BMP'S SHALL EITHER BE SPREAD ONSITE AND STABILIZED WITH SEED/MULCH OR SOD OR SHALL BE HOULED OFF SITE.
- 10. ALL DISTURBED AREAS SHOWN TO BE GRASSED SHALL BE SOLID SODDED.



Phone: (251) 544-7900

30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 202 Government Street, Suite 225, Mobile, AL 36602

ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

CITY OF ORANGE BEACH PO BOX 458 ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT
MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222 ATTN: STED MCCOLLOUGH

ARCHITECT DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH BIRMINGHAM, AL 35233

205-322-7482 ATTN: JIM HARTSELL / JEFFREY MENASCO **CIVIL ENGINEER** SAWGRASS CONSULTING, LLC

11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER

STRUCTURAL ENGINEER

MBA ENGINEERS

GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: CHRIS DEARMON / VAN SIMPSON

MECHANICAL / PLUMBING ENGINEER

FIRE PROTECTION ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD,

MOBILE, AL 36609 251-460-4646 ATTN: TOM WADE / BRIAN DOVE

ELECTRICAL ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

REV DATE DESCRIPTION

2-14-2020

100% BID DOCUMENTS

DAVIS ARCHITECTS SHEET TITLE

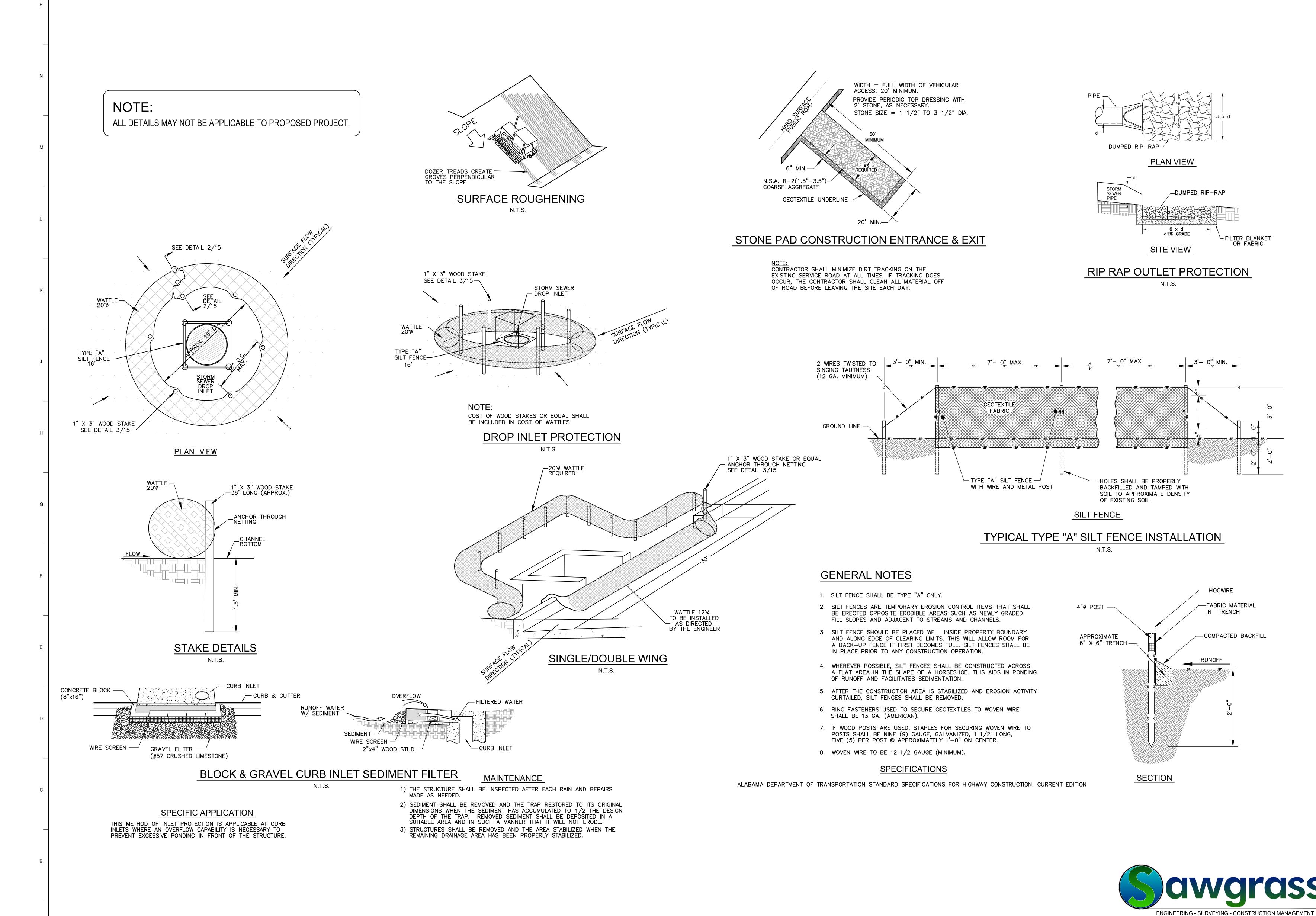
EROSION CONTROL PLAN

DRAWING NO.

C500

C500 EROSION CONTROL PLAN

C500/C901 | SCALE: 1" = 20'





ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

CITY OF ORANGE BEACH PO BOX 458 ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

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ATTN: JIM HARTSELL / JEFFREY MENASCO

STRUCTURAL ENGINEER MBA ENGINEERS 300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203

205-323-6385

251-460-4646

ATTN: KEITH OWENS / MARK BOGER **MECHANICAL / PLUMBING ENGINEER** GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609

ATTN: CHRIS DEARMON / VAN SIMPSON

FIRE PROTECTION ENGINEER **GULF STATES ENGINEERING** 600 AZALEA ROAD, MOBILE, AL 36609

251-460-4646 ATTN: TOM WADE / BRIAN DOVE **ELECTRICAL ENGINEER**

GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

DATE DESCRIPTION

2-14-2020 100% BID DOCUMENTS

DAVIS ARCHITECTS SHEET TITLE

EROSION CONTROL DETAILS

DRAWING NO.

Phone: (251) 544-7900

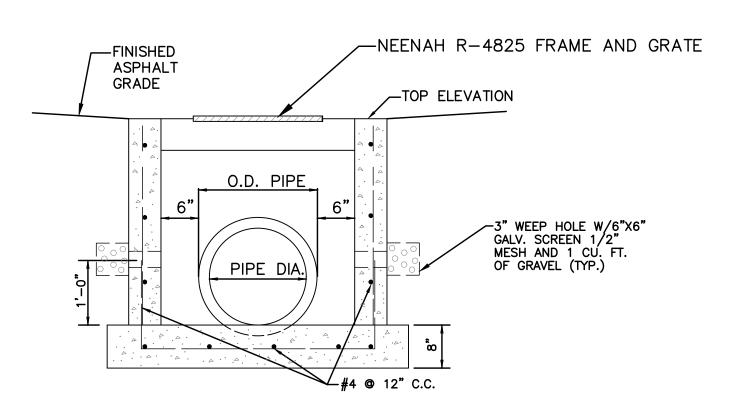
30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527

202 Government Street, Suite 225, Mobile, AL 36602

C600

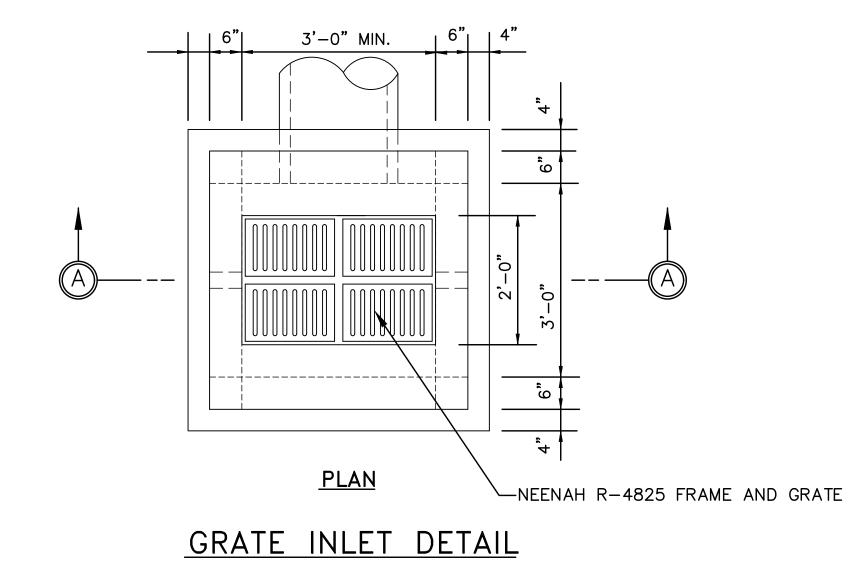
C600 EROSION CONTROL DETAILS

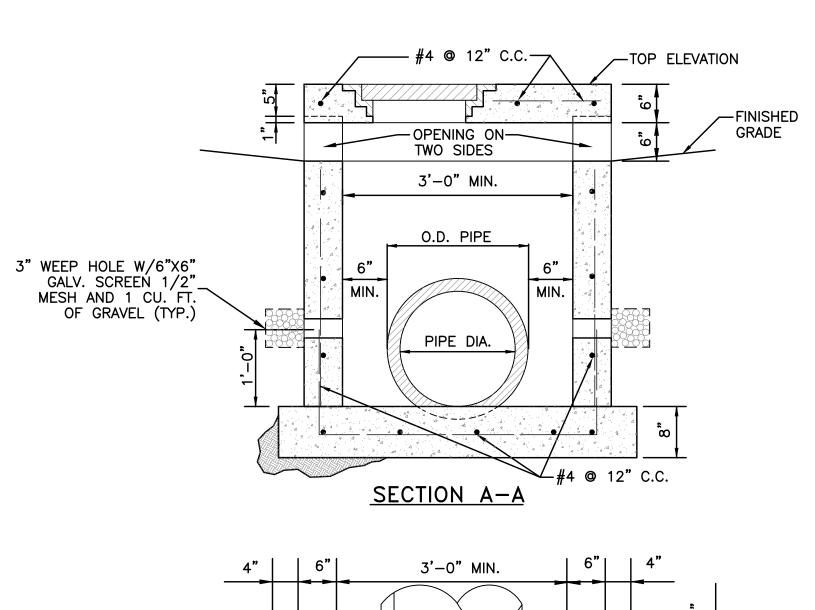
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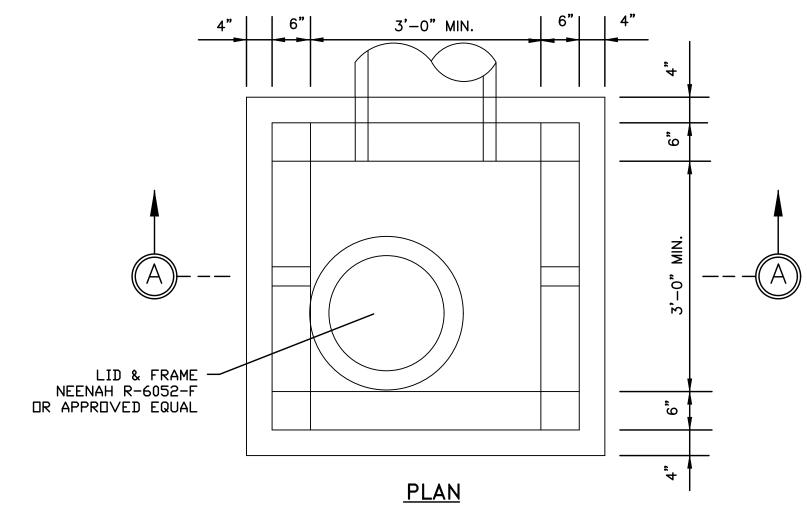


SECTION A-A

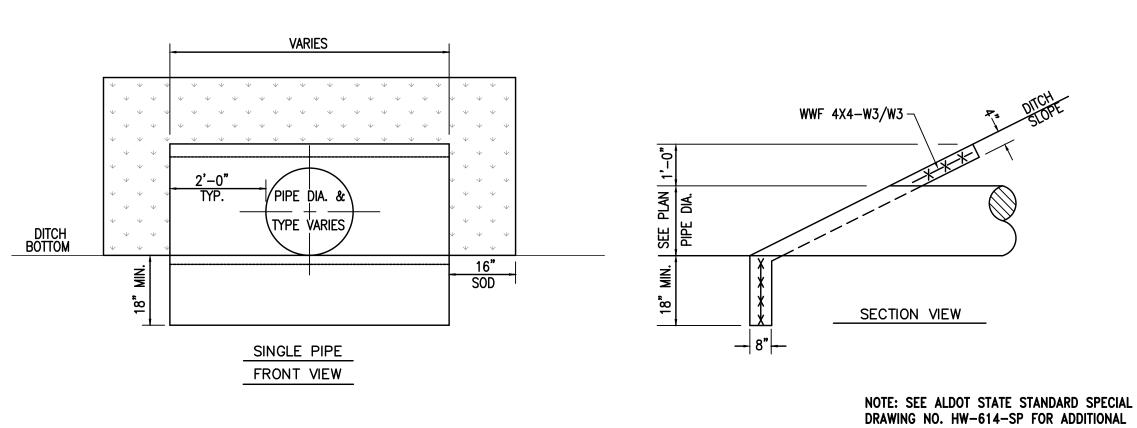
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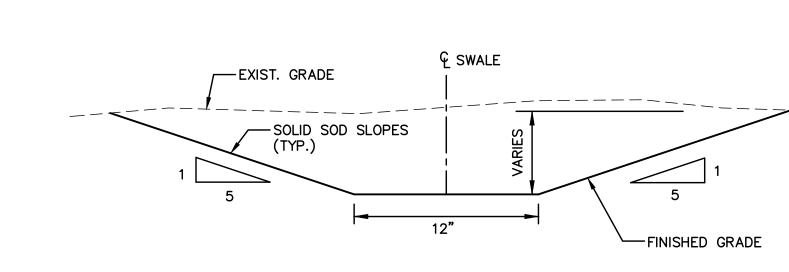




WEIR INLET DETAIL N.T.S.



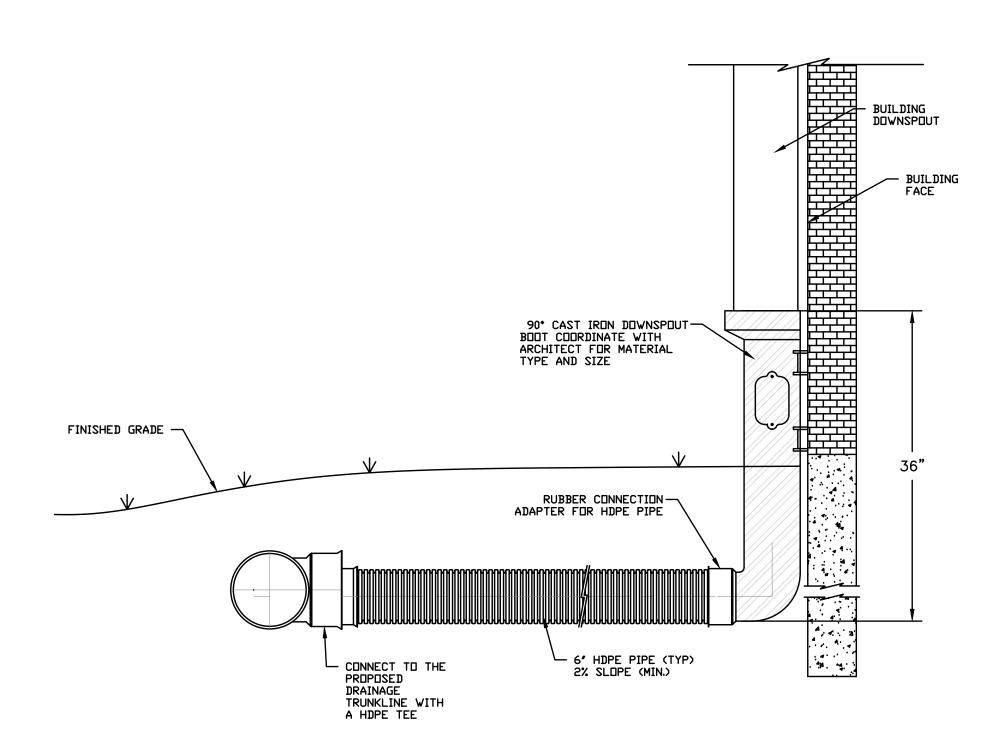
CONCRETE SLOPED HEADWALL DETAIL N.T.S.



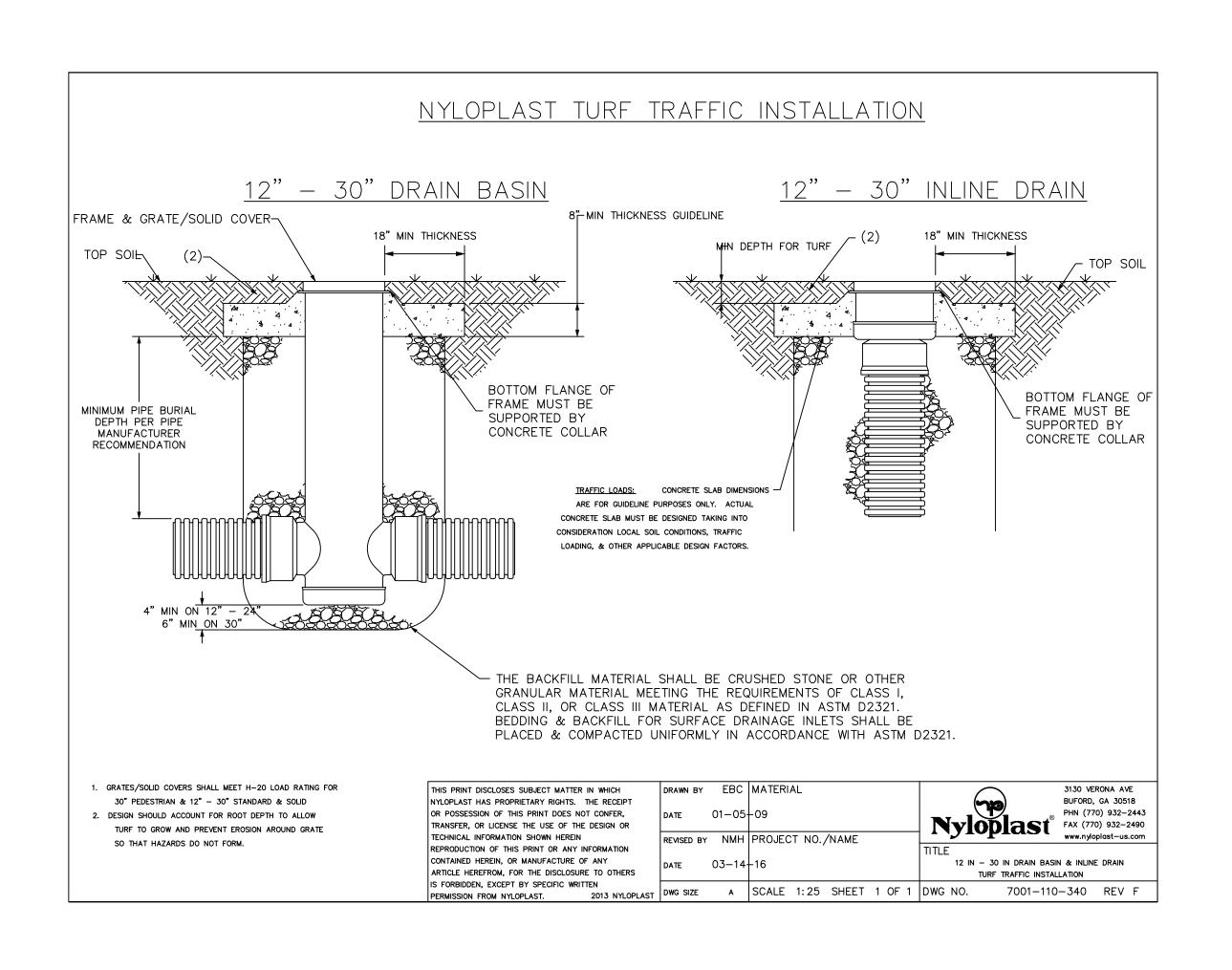
EARTHEN DRAINAGE SWALE DETAIL

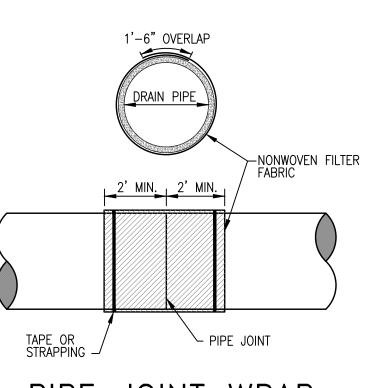
SECTION A-A

N.T.S.

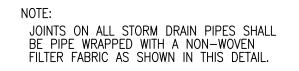


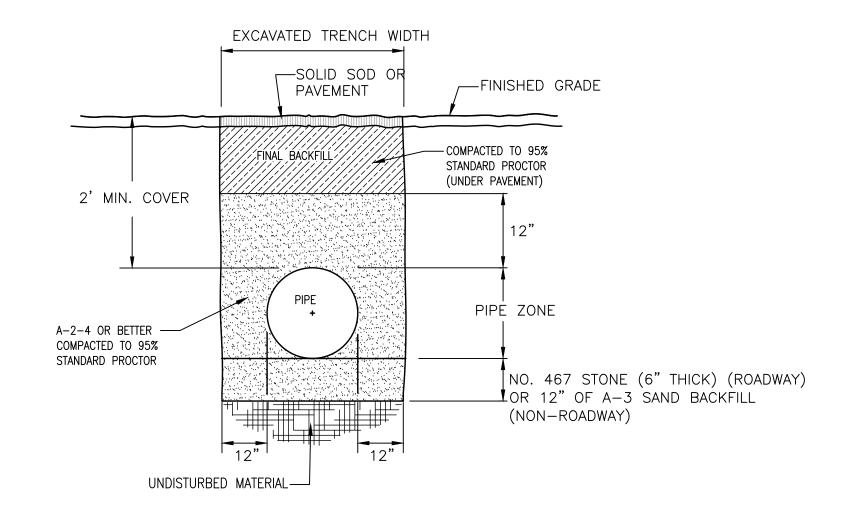
DOWNSPOUT CONNECTION DETAIL N.T.S.





PIPE JOINT WRAP N.T.S.





PIPE TRENCH BACKFILL DETAIL





ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

DAVIS

OWNER
CITY OF ORANGE BEACH
PO BOX 458
ORANGE BEACH, ALABAMA 36561
251-981-69792
ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT
MCCOLLOUGH ARCHITECTURE
4790 MAIN ST #209,
ORANGE BEACH, AL 36561
251-968-7222
ATTN: STED MCCOLLOUGH

ARCHITECT
DAVIS ARCHITECTS, INC.
120 23RD STREET SOUTH

BIRMINGHAM, AL 35233
205-322-7482
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CIVIL ENGINEER
SAWGRASS CONSULTING, LLC

11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN STRUCTURAL ENGINEER

300 20TH ST. N., SUITE 100
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205-323-6385
ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER
GULF STATES ENGINEERING
600 AZALEA ROAD,
MOBILE, AL 36609

MBA ENGINEERS

251-460-4646

251-460-4646

ATTN: CHRIS DEARMON / VAN SIMPSON

FIRE PROTECTION ENGINEER

GULF STATES ENGINEERING

600 AZALEA ROAD,

MOBILE, AL 36609

ELECTRICAL ENGINEER
GULF STATES ENGINEERING
600 AZALEA ROAD,
MOBILE, AL 36609
251-460-4646
ATTN: JERRY ONWU / SID SNYDER

REV DATE DESCRIPTION

ATE 2-14-2020
HASE 100% BID DOCUMENTS
SUED FOR

DAVIS ARCHITECTS 3891.0

SHEET TITLE

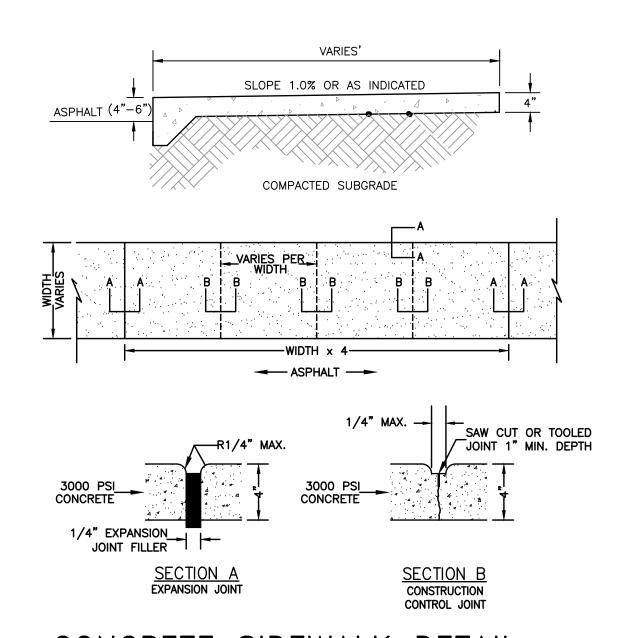
CIVIL CONSTRUCTION DETAILS - 1

DRAWING NO.

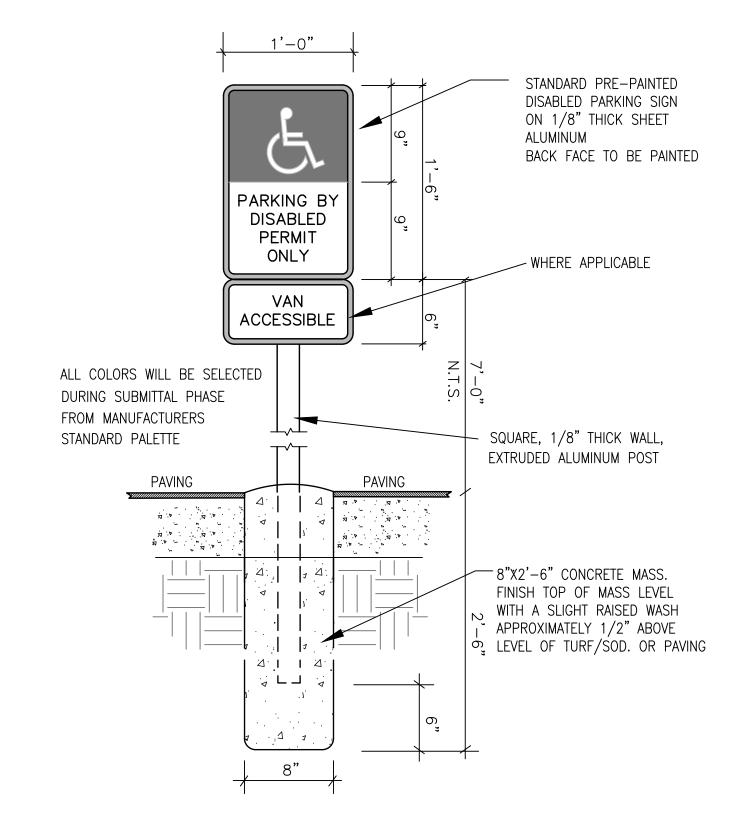
C700

C700 CIVIL CONSTRUCTION DETAILS - 1

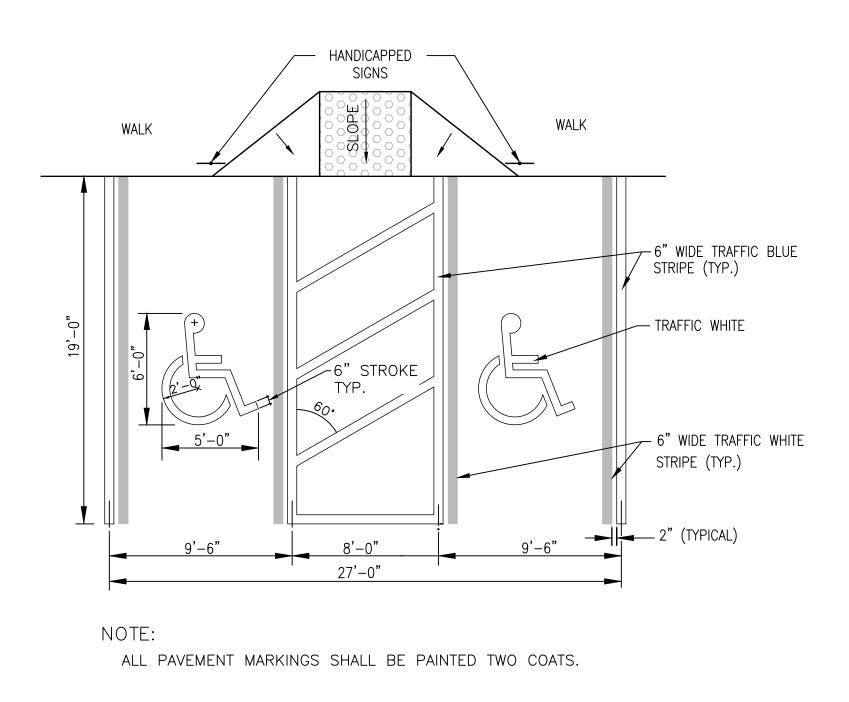
C700/C901 SCALE:N.T.S.



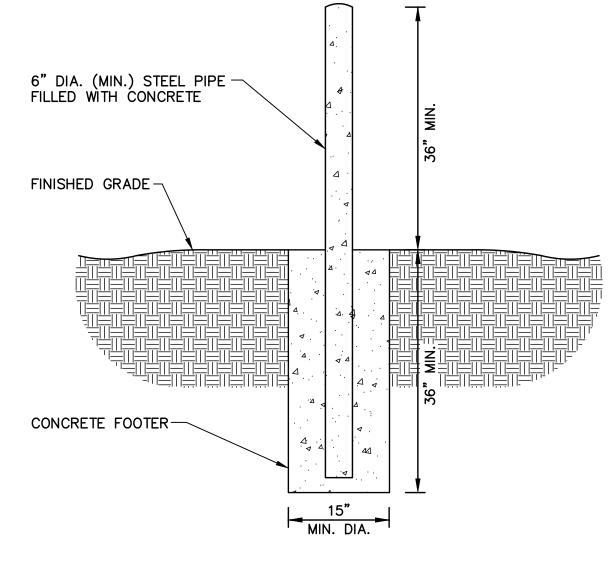
CONCRETE SIDEWALK DETAIL N.T.S.



H/C PARKING SIGN DETAIL

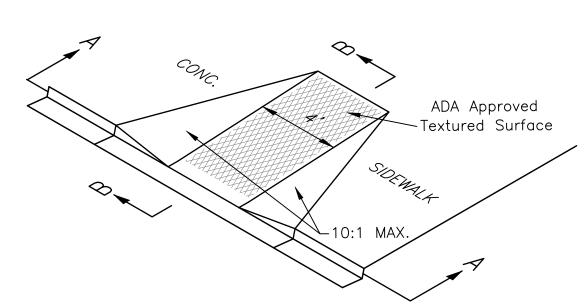


VAN ACCESSIBLE HANDICAPPED STALL DETAIL N.T.S.



1. BOLLARDS SHALL BE SPACED NOT MORE THAN 4' O.C. 2. BOLLARDS SHALL BE LOCATED NOT LESS THAN 3' FROM THE PROTECTED OBJECT

TYPICAL BOLLARD DETAIL NTS



ISOMETRIC VIEW

CURB

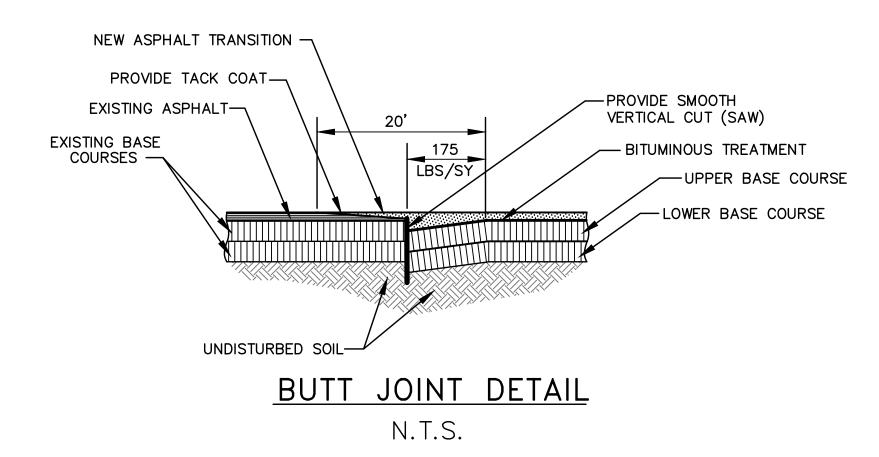
ELEVATION A-A

TRANSITION

CURB

TRANSITION

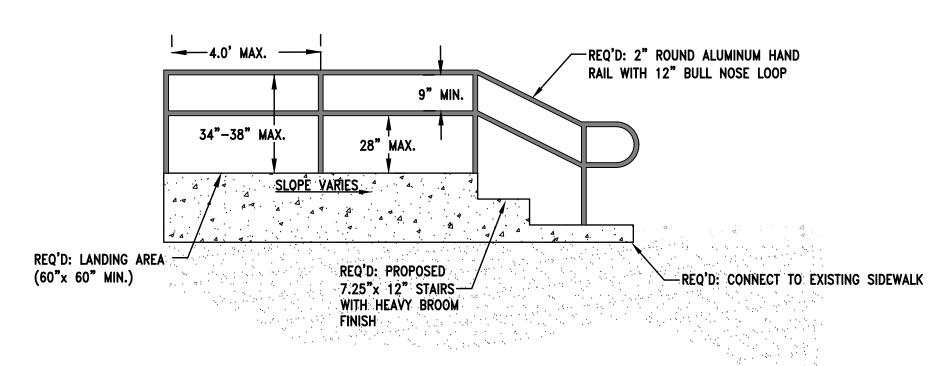
BACK OF SIDEWALK



- 1 1/2" BITUMINOUS ASPHALT WEARING SURFACE, 429-A (165 LB/SY)

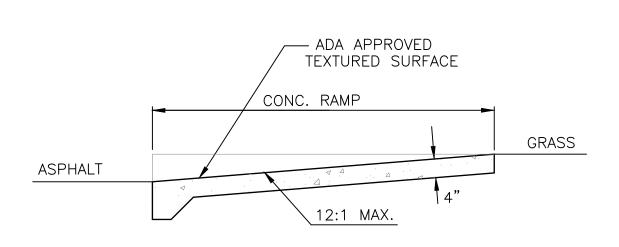
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- SEPARATION FABRIX, MARIFI 500X (OR APPROVED EQUAL)
- 18" THICK LAYER OF BORROW EXCAVATION (A-2-4) OR BETTER) (BORROW MATERIAL SHALL MEET THE CITY ORDINANCE FOR COLOR)



CONCRETE STAIRS DETAIL N.T.S.

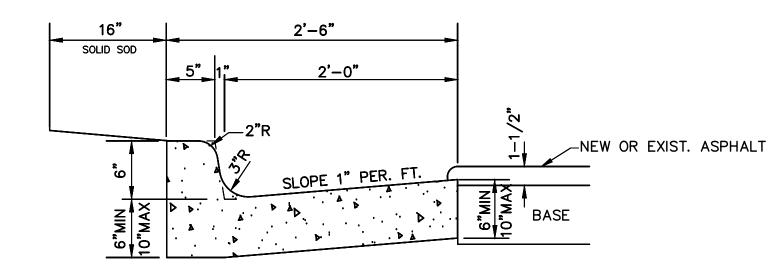
1. ALL CONCRETE SHALL BE MIN. 3,000 2. STAIRS AND HANDRAILS SHALL MEET
ALL REQUIREMENTS OF THE LATEST ADA
AND INTERNATIONAL BUILDING CODE REGULATIONS.



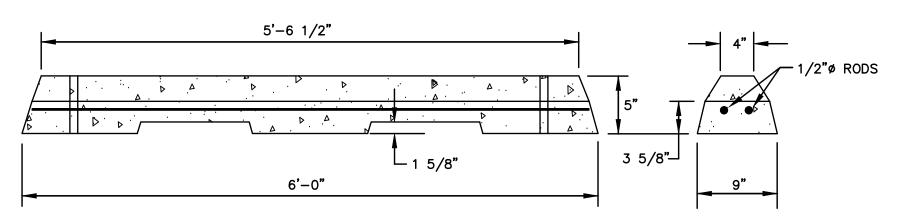
SECTION B-B

SIDEWALK HANDICAP RAMP N.T.S.

- 1.RAMPS ARE DESIGNED TO THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.
- 2.RAMPS SHALL HAVE A TACTILE SURFACE, TEXTURED TO A DEPTH NOT EXCEEDING 1/8" BY USE OF TAMP OR ROLLER.



COMBINATION CURB & GUTTER DETAIL





30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

DRAWING NO.

DAVIS ARCHITECTS

C701

CIVIL CONSTRUCTION DETAILS - 2

2-14-2020

100% BID DOCUMENTS

ORANGE BEACH RECREATION

COMPLEX NEW ADULT

FITNESS CENTER

CITY OF ORANGE BEACH;

ORANGE BEACH, AL

CITY OF ORANGE BEACH

ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT

ATTN: STED MCCOLLOUGH

DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH

SAWGRASS CONSULTING, LLC

11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527

STRUCTURAL ENGINEER

300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203

ATTN: JIM HARTSELL / JEFFREY MENASCO

ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

ATTN: KEITH OWENS / MARK BOGER

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FIRE PROTECTION ENGINEER
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600 AZALEA ROAD,

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ELECTRICAL ENGINEER

GULF STATES ENGINEERING

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BIRMINGHAM, AL 35233

4790 MAIN ST #209, ORANGE BEACH, AL 36561

251-968-7222

ARCHITECT

205-322-7482

CIVIL ENGINEER

251-544-7900

MBA ENGINEERS

600 AZALEA ROAD, MOBILE, AL 36609

MOBILE, AL 36609

600 AZALEA ROAD, MOBILE, AL 36609

251-460-4646

251-460-4646

251-460-4646

205-323-6385

MCCOLLOUGH ARCHITECTURE

251-981-69792

PO BOX 458 ORANGE BEACH, ALABAMA 36561

C701 CIVIL CONSTRUCTION DETAILS - 2

C701/C901 | SCALE:**N.T.S.**

TYPICAL PAVEMENT SECTION N.T.S. CRUSHED AGGREGATE BASE COURSE, 6" THICK, 825-B

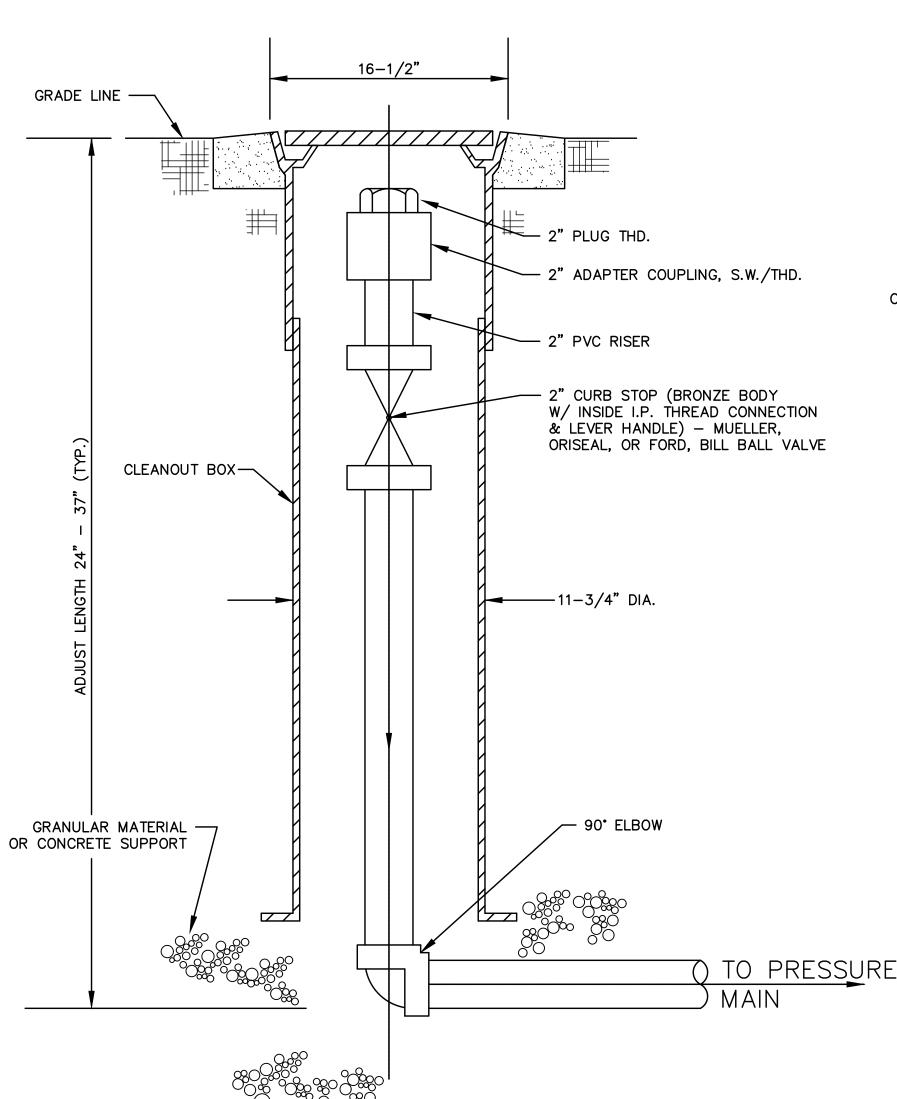
PRECAST CONCRETE WHEEL STOPS

APPROX. WEIGHT - 33 LBS/FT

202 Government Street, Suite 225, Mobile, AL 36602

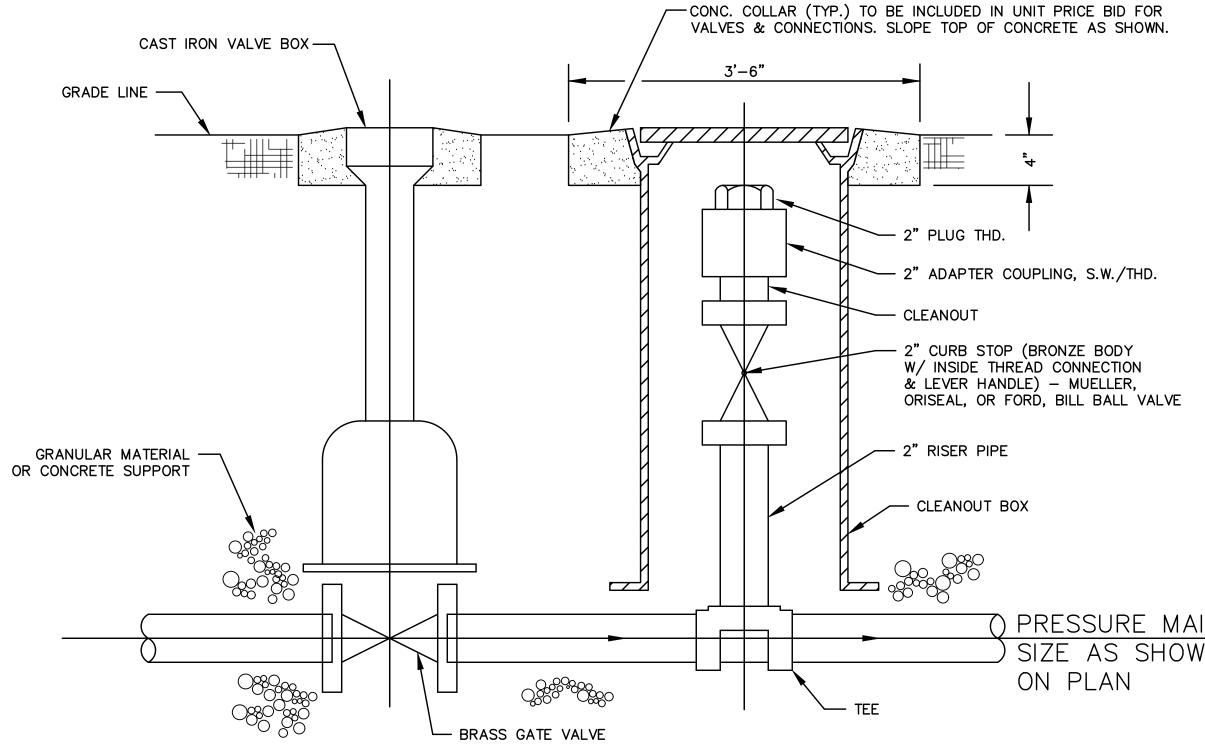
CLEANOUT BOX NOTES:

- CLEANOUT BOX SHALL BE CAST IRON, 12" ROUND SHAFT SCREW TYPE, ADJUSTABLE TWO PIECE CONSTRUCTION WITH 22" BOTTOM FLANGE AND COVER LETTERED "SEWER".
- 2. CLEANOUT BOX MAY BE ADJUSTABLE ALONG € OF PIPE TO PROVIDE MAXIMUM ACCESSIBILITY TO THE CLEANOUT VALVE OPERATOR.
- 3. CONCRETE COLLAR TO BE INCLUDED IN UNIT PRICE BID FOR CLEANOUT ASSEMBLY, JUNCTION ASSEMBLY, OR GATE VALVES.



TYPICAL END OF LINE CLEANOUT ASSEMBLY DETAIL

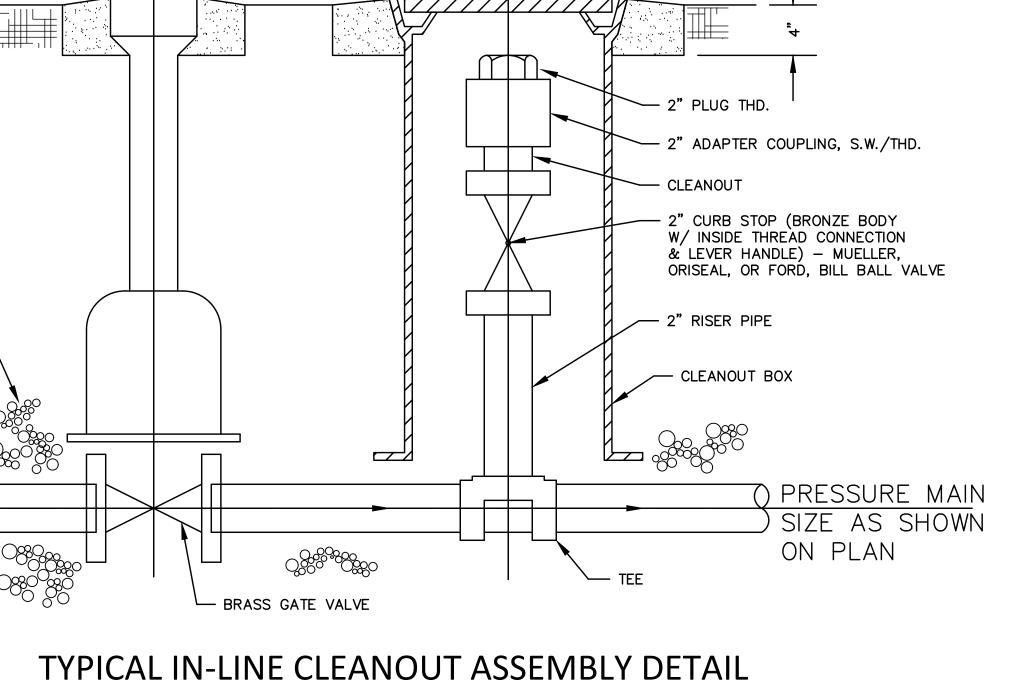
N.T.S.



N.T.S.

BRASS GATE VALVE

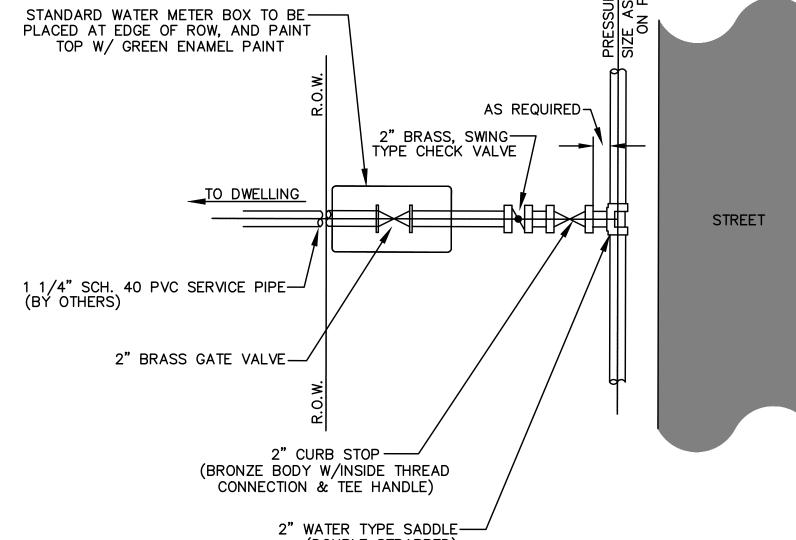
PLAN



CLEANOUT BOX

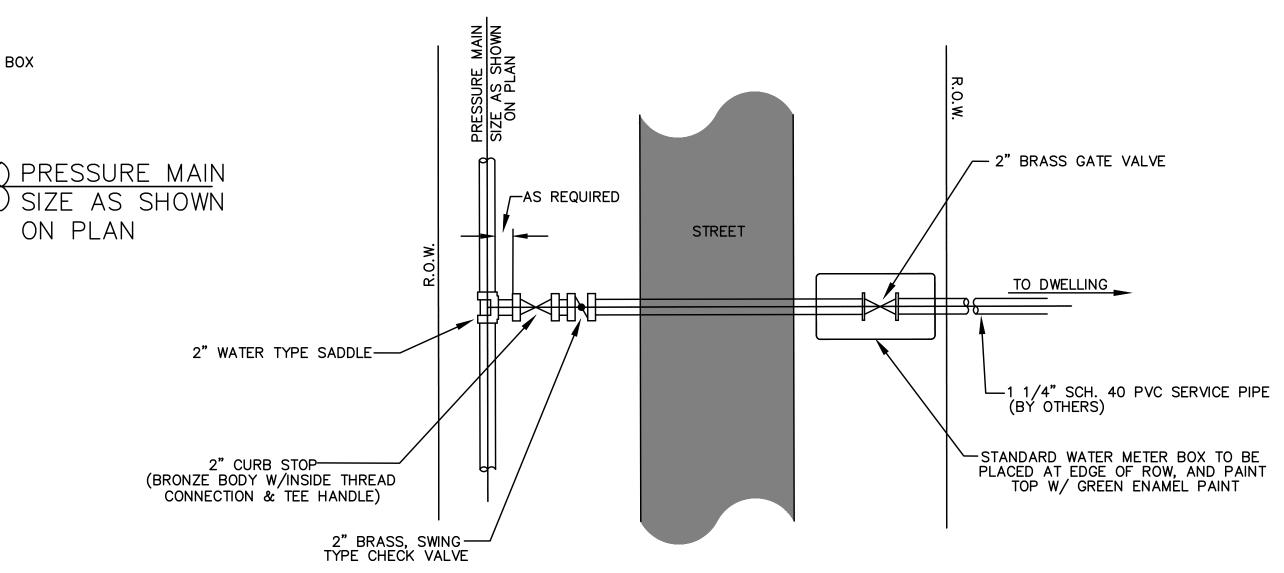
ON PLAN

 1
 2
 3
 4
 5
 6
 7
 18
 15
 16
 17
 18



TYPICAL SERVICE CONNECTION DETAIL (SHORT SIDE)

**ALL PVC SERVICE PIPE SHALL BE SCH. 40. THERE WILL BE NO SEPARATE PAYMENT FOR PVC PRESSURE SEWER FITTINGS. COST OF PVC PRESSURE SEWER FITTINGS SHALL BE INCLUDED IN UNIT PRICE BID FOR PVC PIPE, FOR PRESSURE SEWER, OR IN THE



N.T.S.



202 Government Street, Suite 225, Mobile, AL 36602

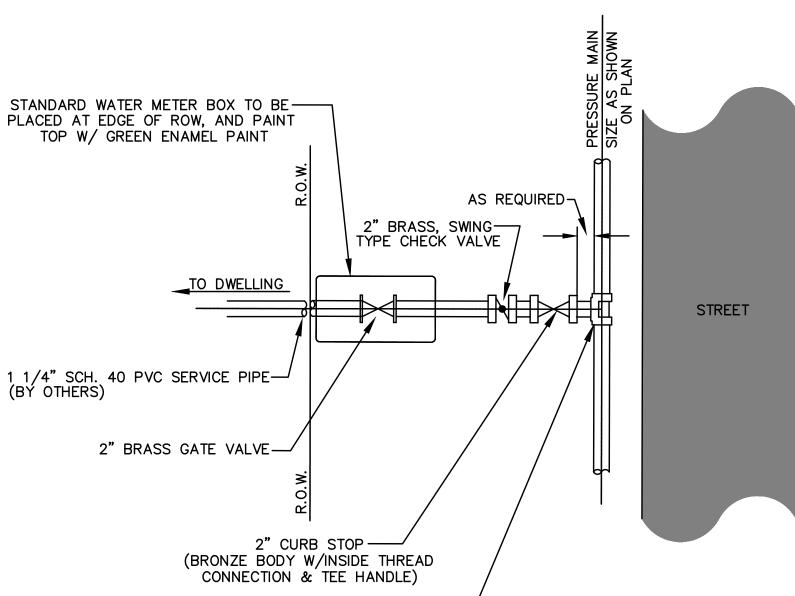
C800

C800 SEWER FORCEMAIN DETAILS

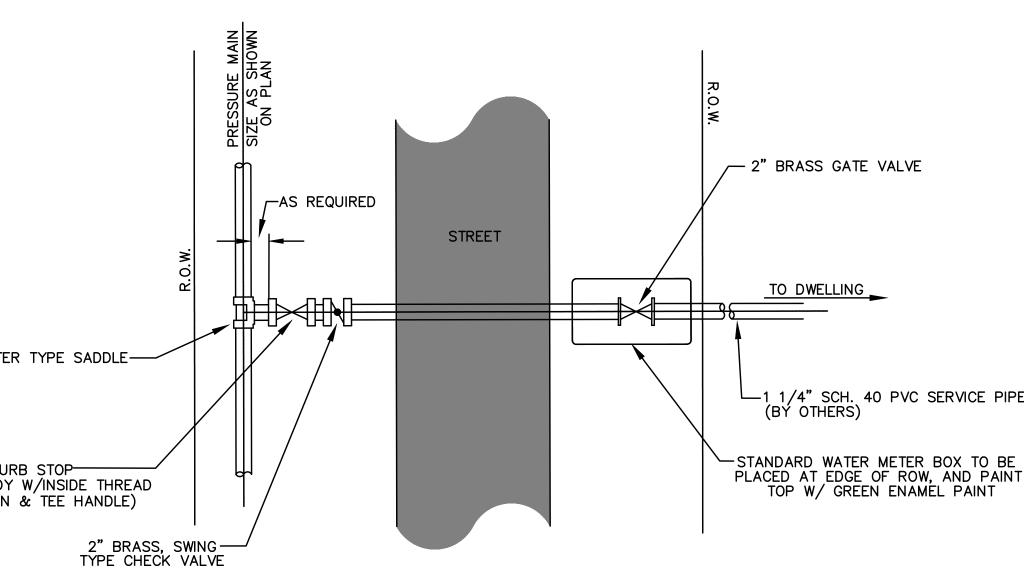
C800/C901 | SCALE:**N.T.S.**

Know what's **below**.

Call before you dig.



CLEANOUT OR JUNCTION ASSEMBLY WITH WHICH THEY ARE ASSOCIATED.



TYPICAL SERVICE CONNECTION DETAIL (LONG SIDE)

BIRMINGHAM, AL 35203 ATTN: KEITH OWENS / MARK BOGER MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 ATTN: CHRIS DEARMON / VAN SIMPSON

ORANGE BEACH RECREATION

COMPLEX NEW ADULT

FITNESS CENTER

CITY OF ORANGE BEACH;

ORANGE BEACH, AL

CITY OF ORANGE BEACH

ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT

ORANGE BEACH, AL 36561

ATTN: STED MCCOLLOUGH

DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH

SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527

STRUCTURAL ENGINEER

300 20TH ST. N., SUITE 100

ATTN: JIM HARTSELL / JEFFREY MENASCO

ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

BIRMINGHAM, AL 35233

4790 MAIN ST #209,

251-968-7222

ARCHITECT

205-322-7482

251-544-7900

MBA ENGINEERS

205-323-6385

251-460-4646

CIVIL ENGINEER

MCCOLLOUGH ARCHITECTURE

ORANGE BEACH, ALABAMA 36561

PO BOX 458

251-981-69792

FIRE PROTECTION ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: TOM WADE / BRIAN DOVE

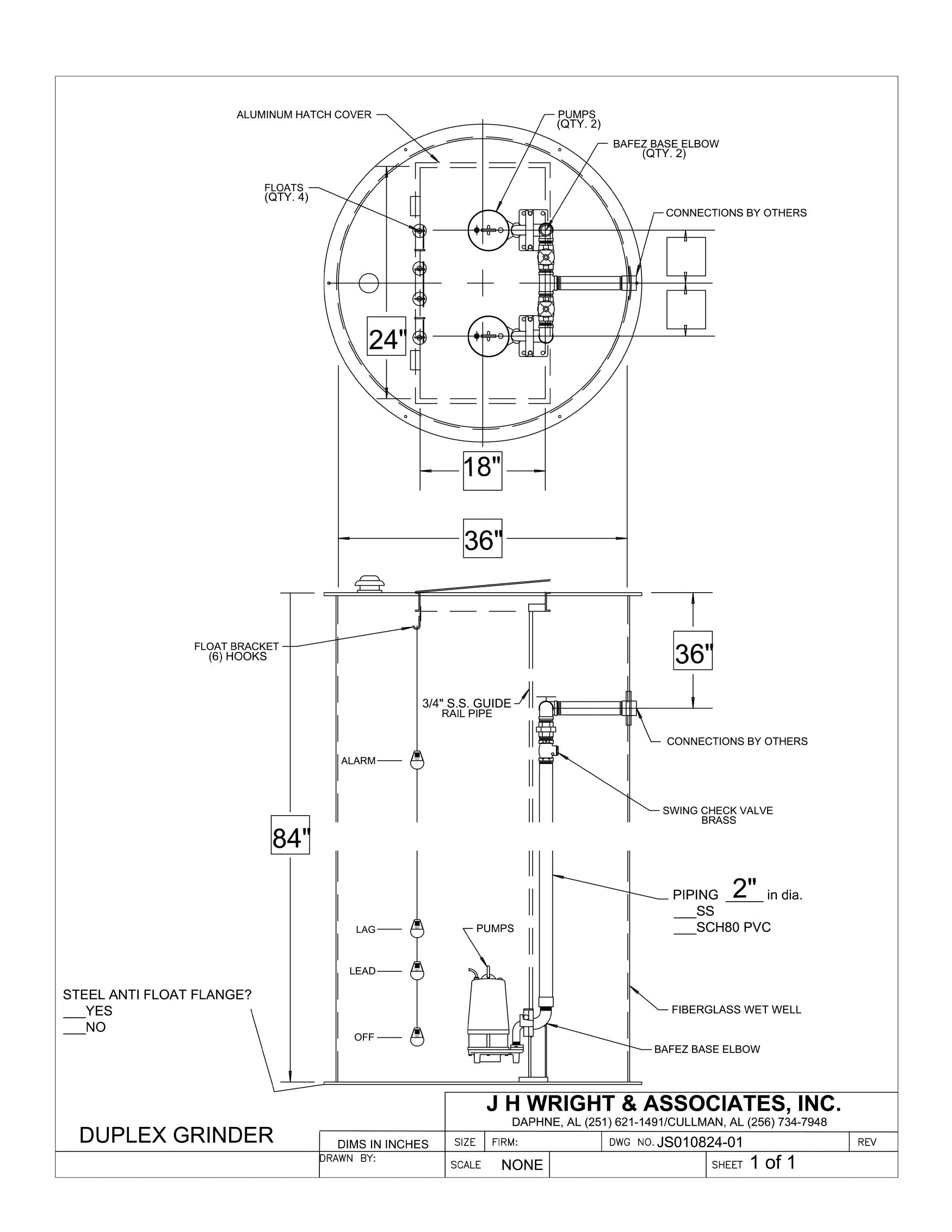
ELECTRICAL ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

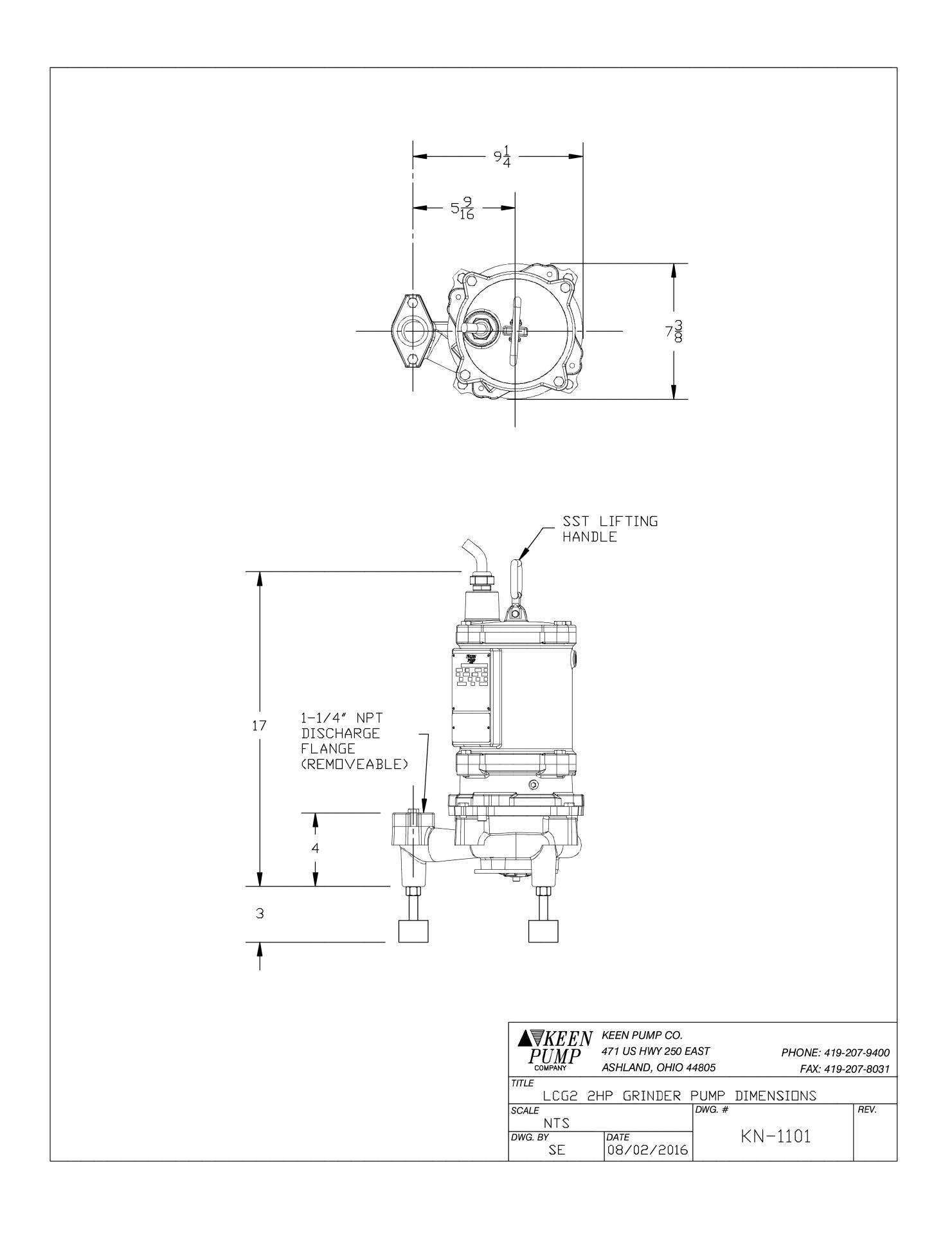
REV DATE DESCRIPTION

2-14-2020 100% BID DOCUMENTS DAVIS ARCHITECTS

SHEET TITLE SEWER FORCE MAIN DETAILS

DRAWING NO.







No. 81242

PROFESSIONAL

ROBETS

ROBET

ORANGE BEACH RECREATION
COMPLEX NEW ADULT
FITNESS CENTER



CITY OF ORANGE BEACH ; ORANGE BEACH, AL

DAVIS

OWNER
CITY OF ORANGE BEACH
PO BOX 458
ORANGE BEACH, ALABAMA 36561
251-981-69792
ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT
MCCOLLOUGH ARCHITECTURE
4790 MAIN ST #209,
ORANGE BEACH, AL 36561
251-968-7222
ATTN: STED MCCOLLOUGH

ARCHITECT
DAVIS ARCHITECTS, INC.
120 23RD STREET SOUTH
BIRMINGHAM, AL 35233
205-322-7482

CIVIL ENGINEER
SAWGRASS CONSULTING, LLC
11143 OLD HIGHWAY 31
SPANISH FORT, AL 36527
251-544-7900
ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

ATTN: JIM HARTSELL / JEFFREY MENASCO

H MBA ENGINEERS
300 20TH ST. N., SUITE 100
BIRMINGHAM, AL 35203
205-323-6385

MECHANICAL / PLUMBING ENGINEER

GULF STATES ENGINEERING
600 AZALEA ROAD,
MOBILE, AL 36609
251-460-4646

ATTN: KEITH OWENS / MARK BOGER

ATTN: CHRIS DEARMON / VAN SIMPSON

FIRE PROTECTION ENGINEER
GULF STATES ENGINEERING
600 AZALEA ROAD,
MOBILE, AL 36609
251-460-4646

ELECTRICAL ENGINEER
GULF STATES ENGINEERING
600 AZALEA ROAD,
MOBILE, AL 36609
251-460-4646
ATTN: JERRY ONWU / SID SNYDER

ATTN: TOM WADE / BRIAN DOVE

REV DATE DESCRIPTION

PHASE 2-14-2020

PHASE 100% BID DOCUMENTS

ISSUED FOR

DAVIS ARCHITECTS

B

SHEET TITLE

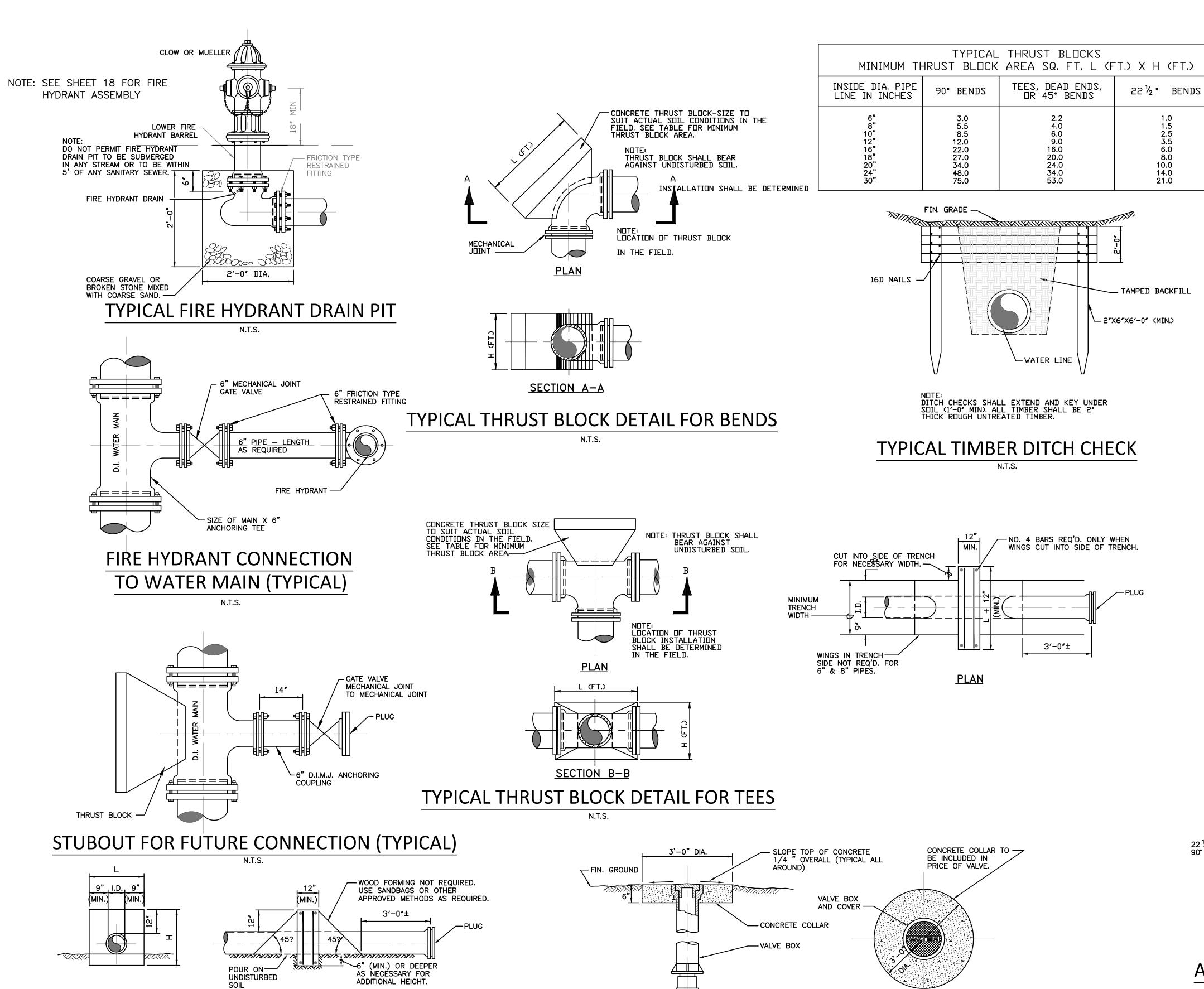
GRINDER PUMP DETAILS

DRAWING NO.

C801

C801 GRINDER PUMP DETAILS

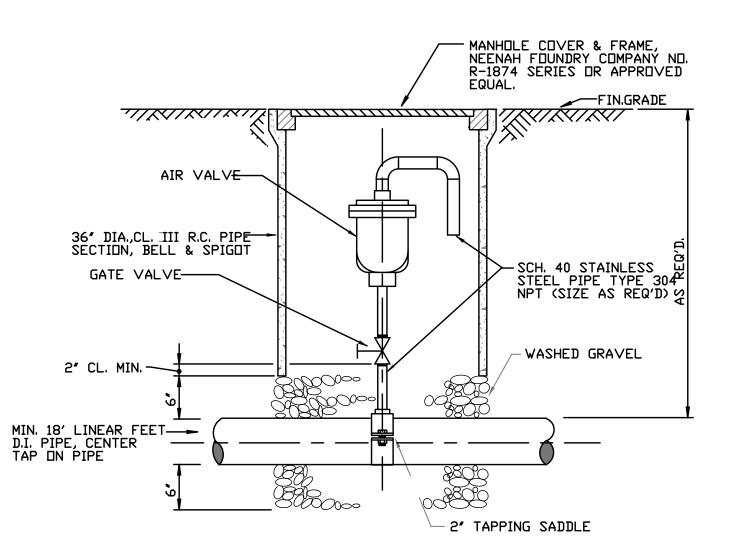
C801/C901 SCALE:N.T.S.



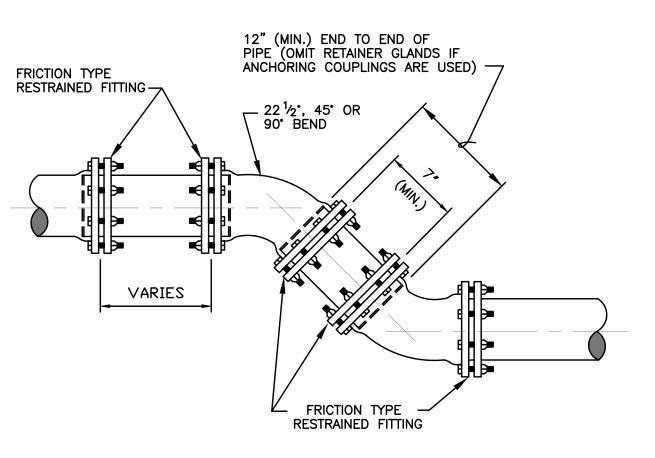
SECTION

VALVE BOX COLLAR DETAIL

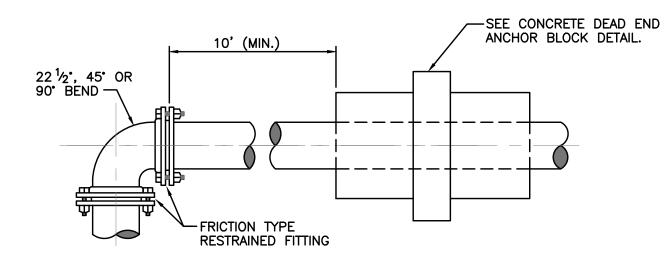
N.T.S.



AIR RELEASE VALVE ASSEMBLY



ANCHORING OF VERTICAL OR HORIZONTAL BENDS WHERE THRUST BLOCKS ARE NOT DESIRED N.T.S.



ANCHORAGE OF BENDS WHERE THRUST BLOCKS ARE NOT DESIRED -DEAD END ANCHORS

*NOT ALL DETAILS MAY BE APPLICABLE TO THIS PROJECT



ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

CITY OF ORANGE BEACH PO BOX 458 ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222 ATTN: STED MCCOLLOUGH

ARCHITECT DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH BIRMINGHAM, AL 35233 205-322-7482 ATTN: JIM HARTSELL / JEFFREY MENASCO

CIVIL ENGINEER SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

STRUCTURAL ENGINEER

MBA ENGINEERS

300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER **MECHANICAL / PLUMBING ENGINEER** GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609

251-460-4646 ATTN: CHRIS DEARMON / VAN SIMPSON FIRE PROTECTION ENGINEER **GULF STATES ENGINEERING** 600 AZALEA ROAD,

MOBILE, AL 36609 251-460-4646 ATTN: TOM WADE / BRIAN DOVE **ELECTRICAL ENGINEER GULF STATES ENGINEERING**

ATTN: JERRY ONWU / SID SNYDER

600 AZALEA ROAD,

MOBILE, AL 36609

251-460-4646

2-14-2020 100% BID DOCUMENTS

SHEET TITLE WATER LINE DETAILS - 1

DAVIS ARCHITECTS

DRAWING NO.

C900

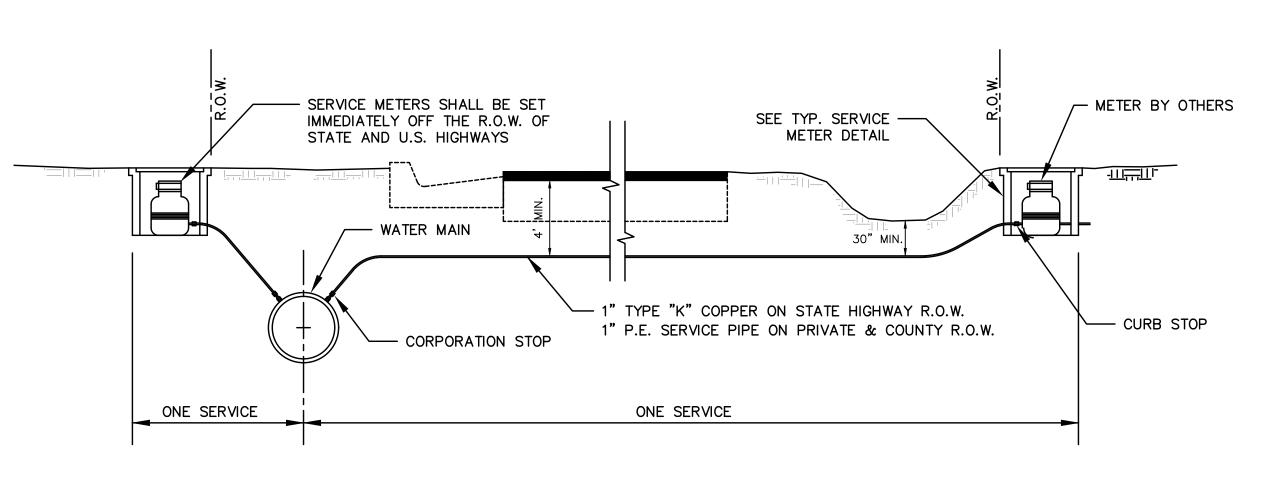
UNDISTURBED

CONCRETE DEAD END ANCHOR BLOCK DETAILS

N.T.S.

SIDE ELEVATION

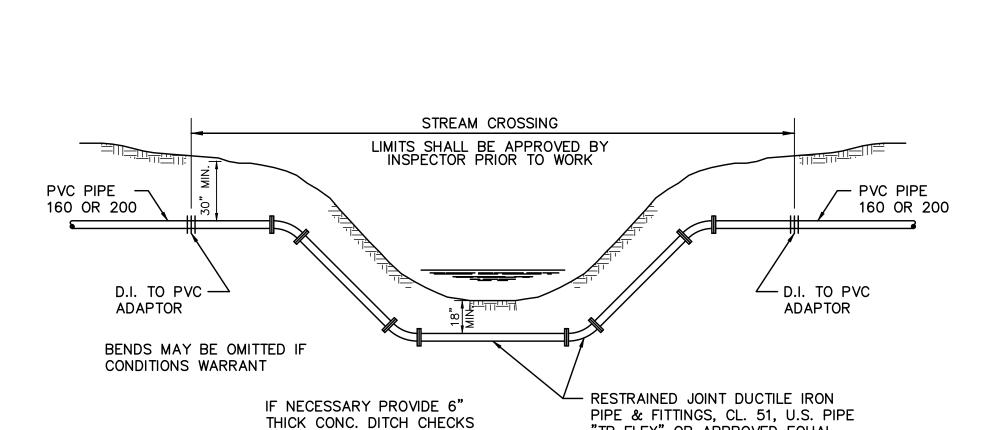
FRONT ELEVATION



TYPICAL SERVICE CONNECTION

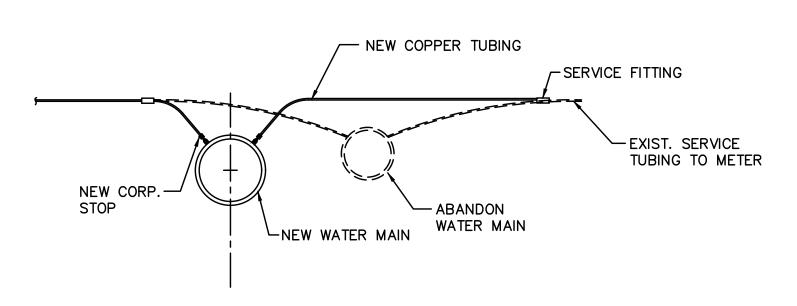
TOTAL WIDTH AND DEPTH OF

TRENCH TO HOLD BACKFILL



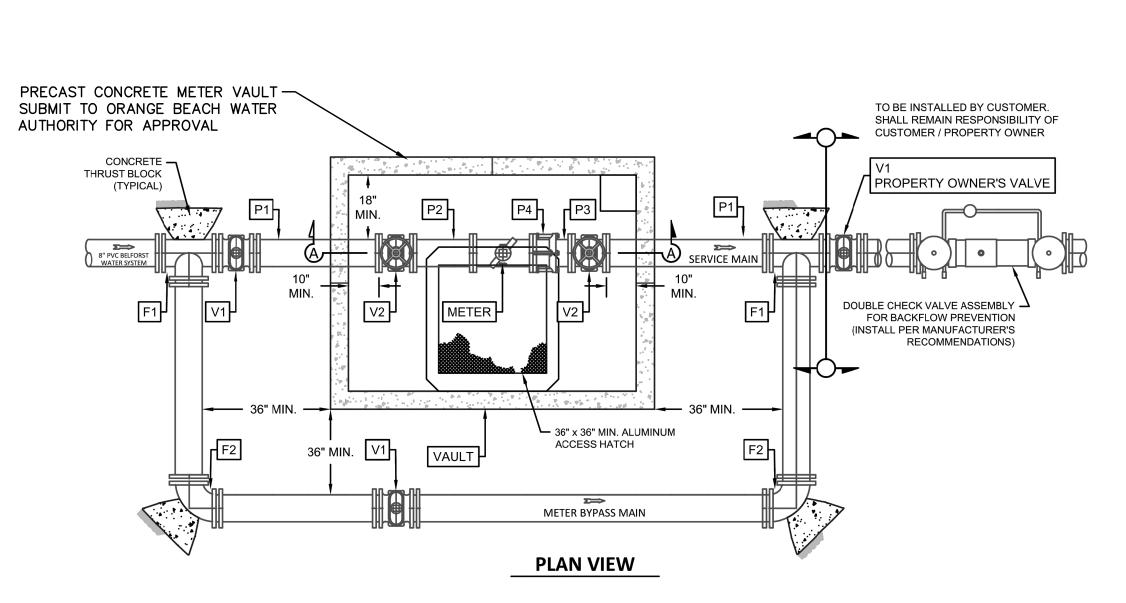
DRAINAGE DITCH CROSSING DETAIL

N.T.S.

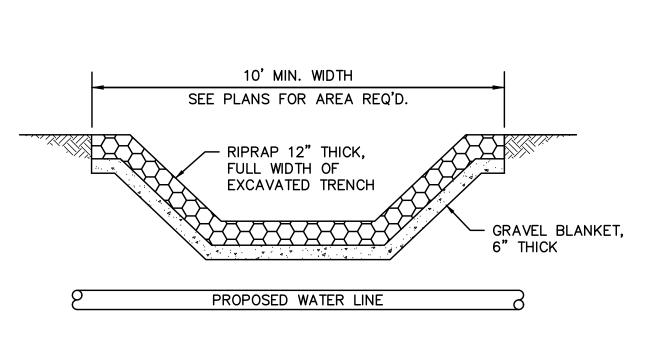


"TR FLEX" OR APPROVED EQUAL

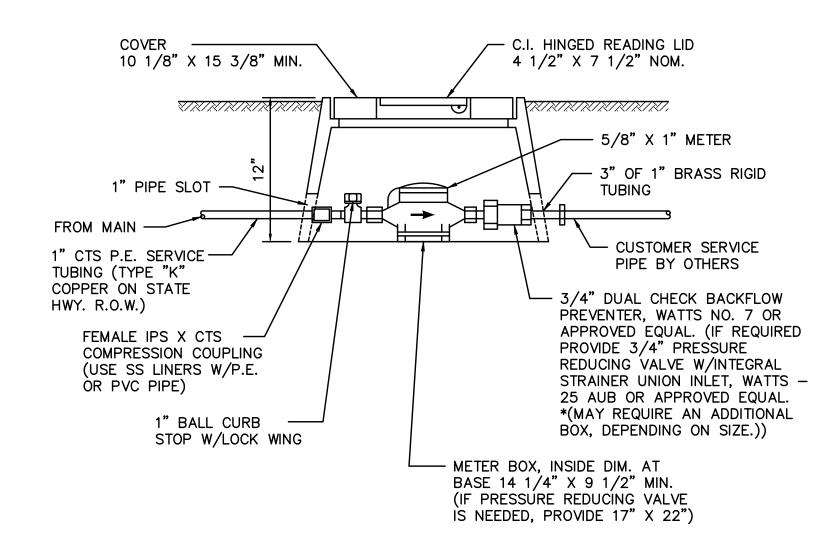
CONNECTION OF EXISTING SERVICES



*ALL PIPE, FITTINGS, VALVES, VAULTS AND METERS
TO BE PER ORANGE BEACH WATER AUTHORITY'S
SPECIFICATIONS FOR MAKE, MODEL, ETC..

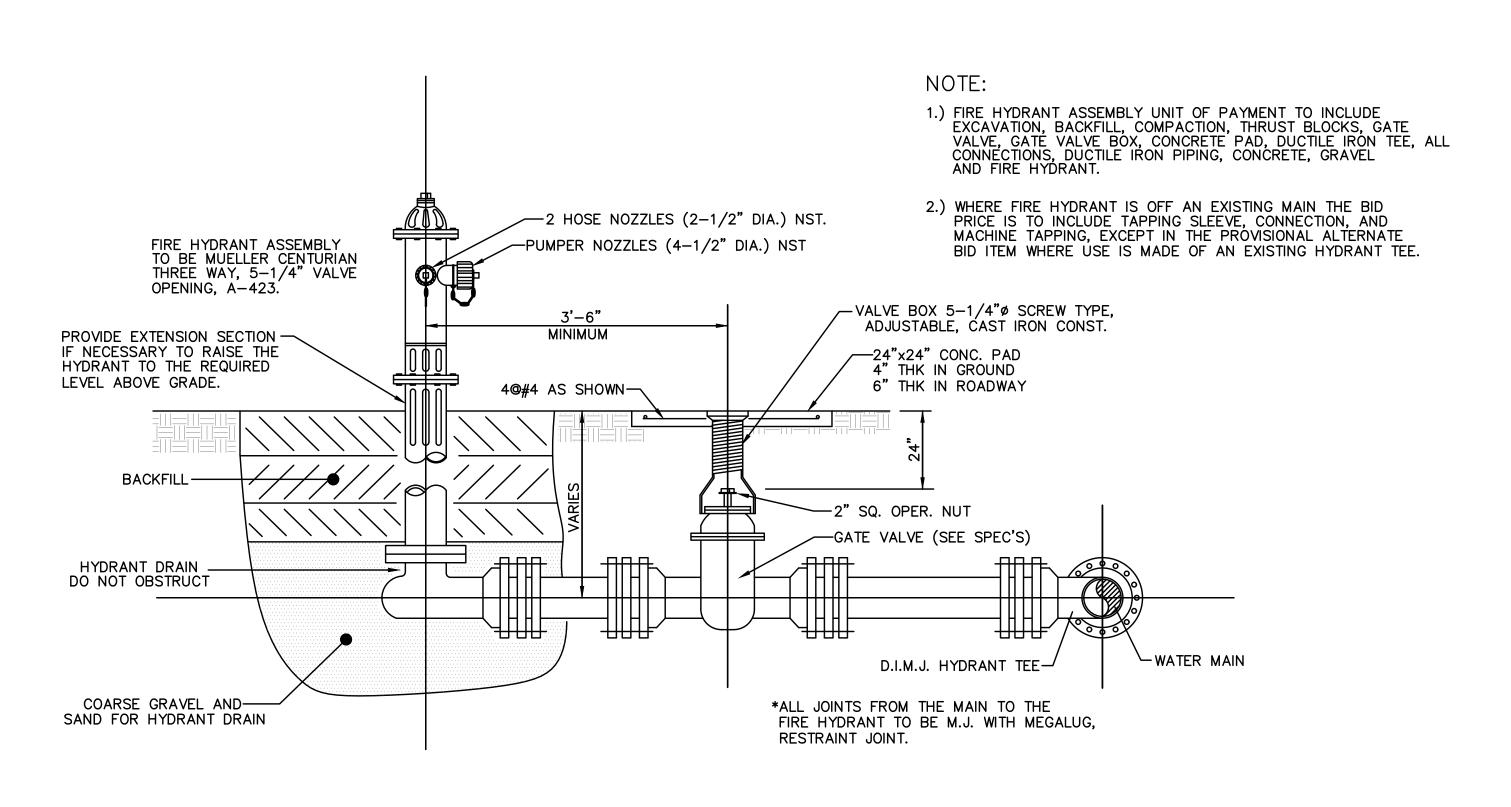


RIPRAP SLOPE PROTECTION N.T.S.

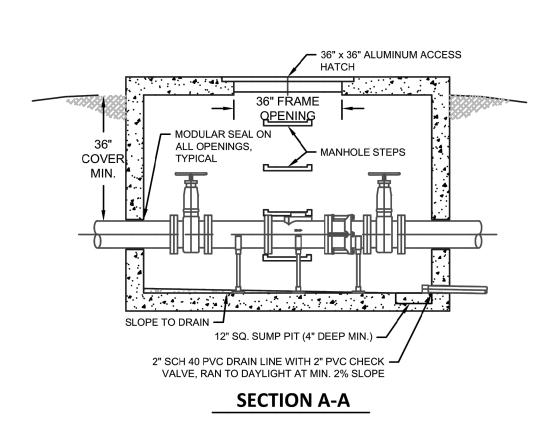


TYPICAL SERVICE METER / (PRESSURE REGULATOR)

N.T.S.



FIRE HYDRANT ASSEMBLY



	MATERIAL SCHEDULE	
NO.	DESCRIPTION	APPROXIMATE QUANTITY
P1	DI PIPE, FLANGED x PLAIN END (FIELD CUT TO LENGTH)	2
P2	DI PIPE, FLANGED x FLANGED , 20"	1
Р3	DI PIPE, FLANGED x PLAIN END (FIELD CUT TO LENGTH)	1
P4	SLIDING FLANGE ADAPTOR COUPLING FOR DI PIPE (ROMAC FCA501 OR APPROVED EQUAVALENT	1
F1	MJ DI TEE W/ MJ RESTRAINING GLANDS	2
F2	MJ DI 90-DEGREE BEND W/ MJ RESTRAINING GLANDS	3
V1	RW GATE VALVE, RW W/ MJ RESTRAINING GLANDS, CAST IRON VALVE BOX & CONCRETE COLLAR	3
V2	RW GATE VALVE, FLANGED W/ HANDWHEEL	2
METER	APPROVED MASTER METER PER WATER AUTHORITY SPEC	1
VAULT	PRECAST CONCRETE METER VAULT (SUBMIT FOR APPROVAL)	1

8" FLANGED 90' BEND TYP. PAYMENT FOR BACKFLOW PREVENTOR WATTS 709DDC DOUBLE CHECK VALVE ASSEMBLY 16" MIN. FLANGED X PLAIN END DUCTILE IRON TYP. FLANGED X PLAIN END DUCTILE IRON TYP. 8" FLANGED 90' BEND TYP.

BACKFLOW PREVENTOR ASSEMBLY DETAIL

202 Government Street, Suite 225, Mobile, AL 36602

N.T.S.

MASTER METER VAULT AND ASSEMBLY DETAIL

N.T.S.

*NOT ALL DETAILS MAY BE APPLICABLE TO THIS PROJECT

ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT

30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527

Phone: (251) 544-7900

C901 WATER LINE DETAILS - 2

c901/c901 SCALE:N.T.S.

C901

WATER LINE DETAILS - 2

DAVIS ARCHITECTS

SHEET TITLE

DRAWING NO.

2-14-2020

100% BID DOCUMENTS

ORANGE BEACH RECREATION

COMPLEX NEW ADULT

FITNESS CENTER

CITY OF ORANGE BEACH;

ORANGE BEACH, AL

CITY OF ORANGE BEACH

ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT

ORANGE BEACH, AL 36561

ATTN: STED MCCOLLOUGH

DAVIS ARCHITECTS, INC.

BIRMINGHAM, AL 35233

120 23RD STREET SOUTH

SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527

STRUCTURAL ENGINEER

300 20TH ST. N., SUITE 100

GULF STATES ENGINEERING

FIRE PROTECTION ENGINEER
GULF STATES ENGINEERING

ATTN: TOM WADE / BRIAN DOVE

ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER

ATTN: CHRIS DEARMON / VAN SIMPSON

BIRMINGHAM, AL 35203

ATTN: JIM HARTSELL / JEFFREY MENASCO

ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

4790 MAIN ST #209,

251-968-7222

ARCHITECT

205-322-7482

CIVIL ENGINEER

MBA ENGINEERS

600 AZALEA ROAD,

MOBILE, AL 36609

600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646

ELECTRICAL ENGINEER

600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646

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ATTN: JERRY ONWU / SID SNYDER

251-460-4646

205-323-6385

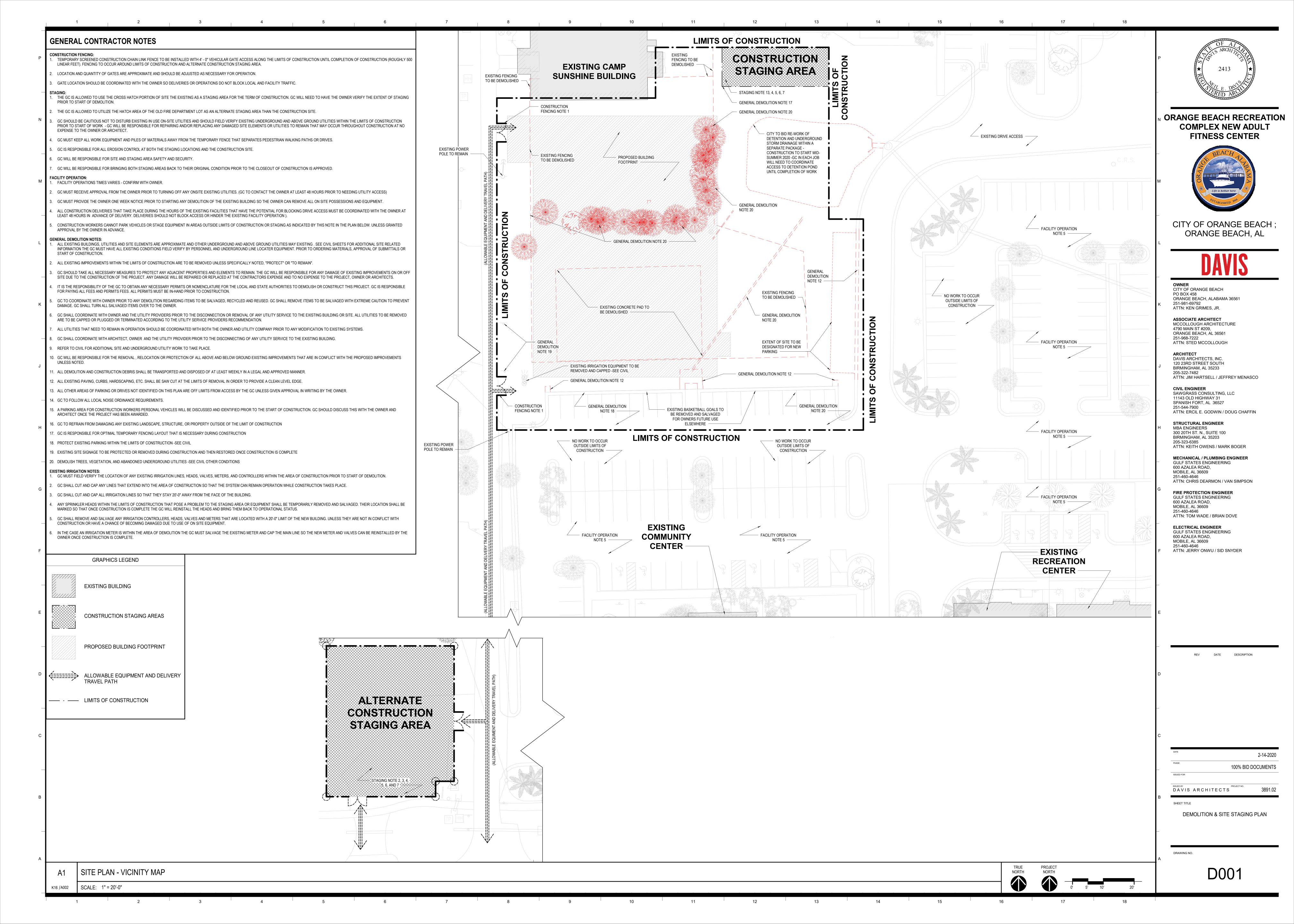
251-544-7900

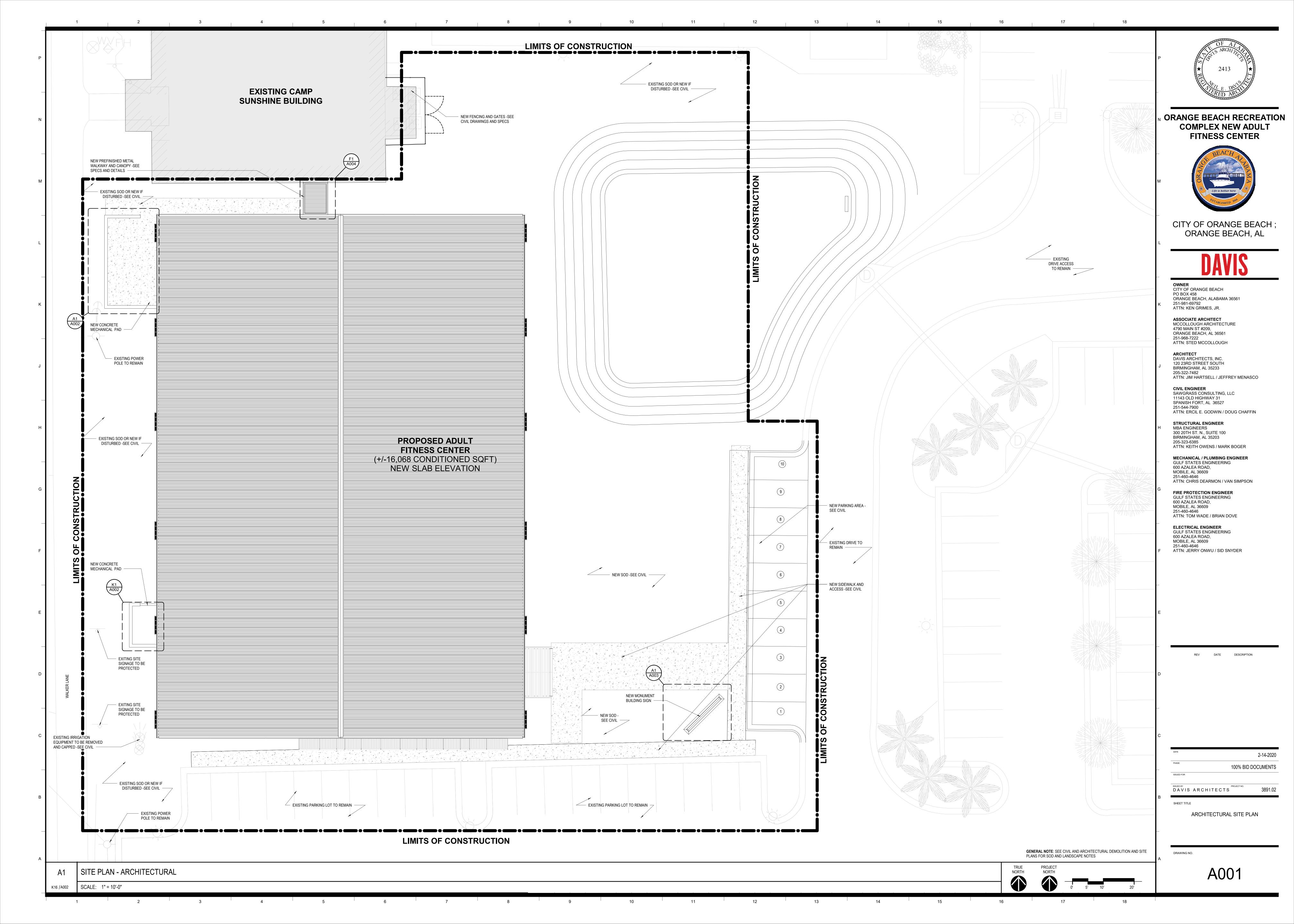
MCCOLLOUGH ARCHITECTURE

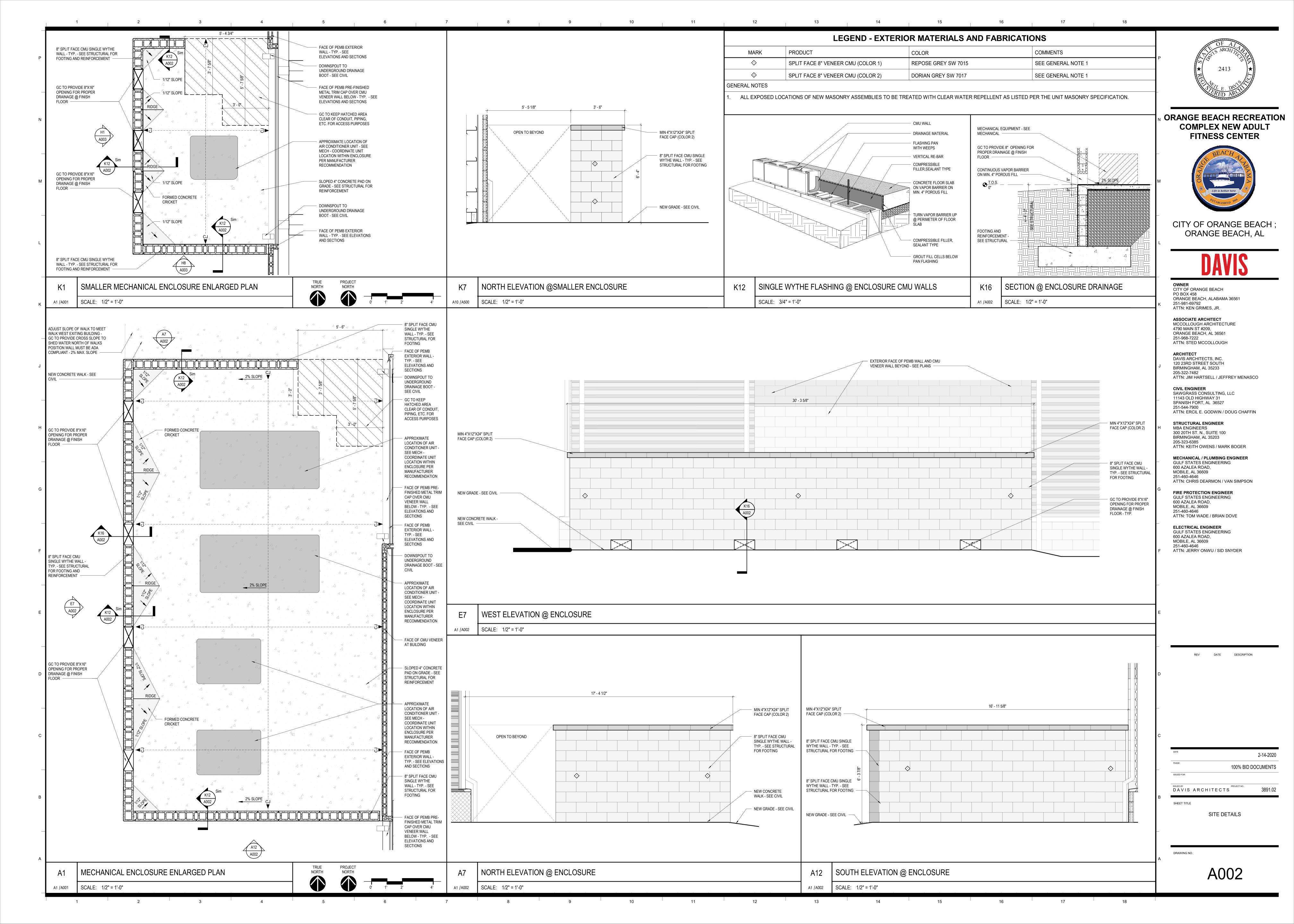
ORANGE BEACH, ALABAMA 36561

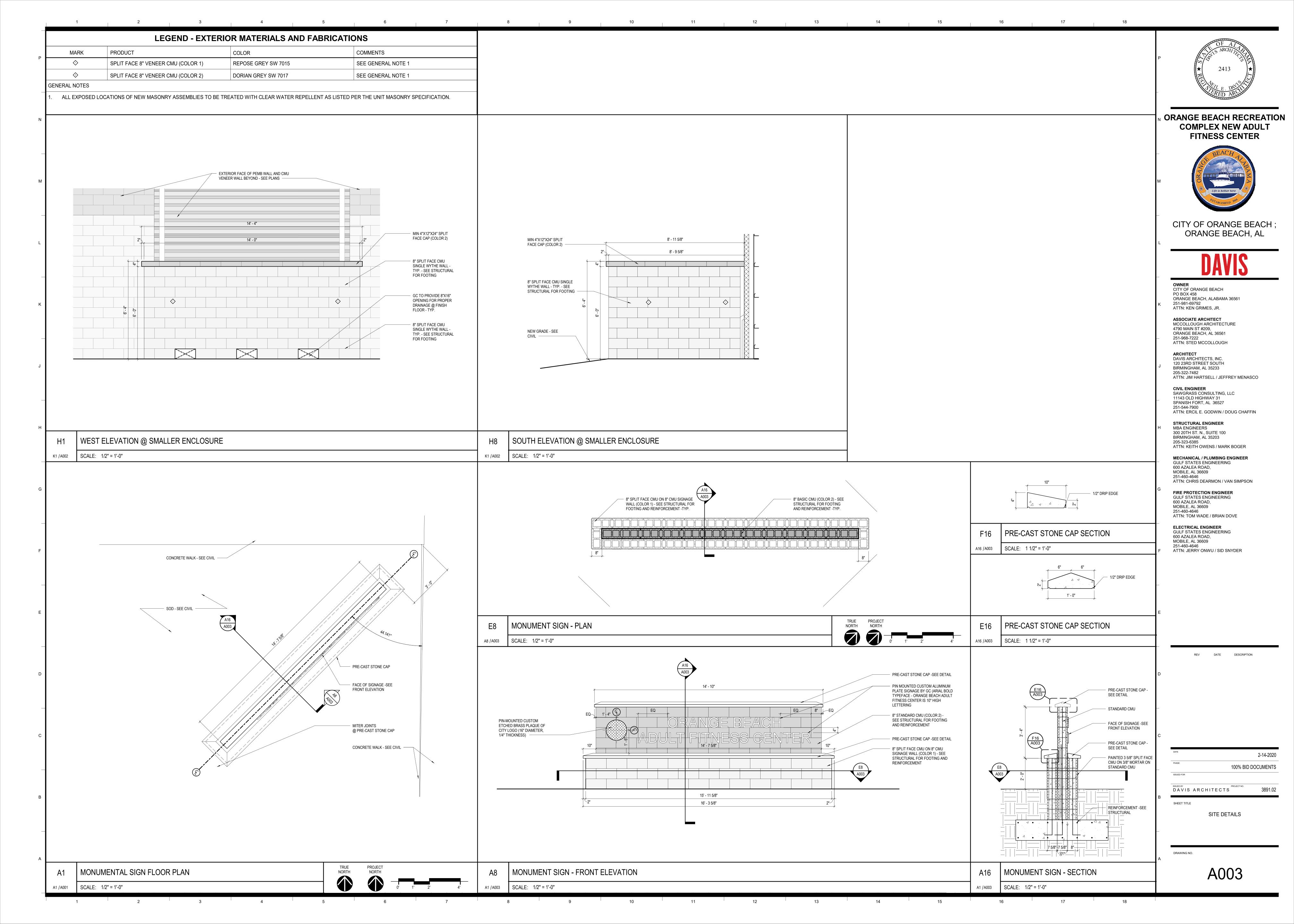
PO BOX 458

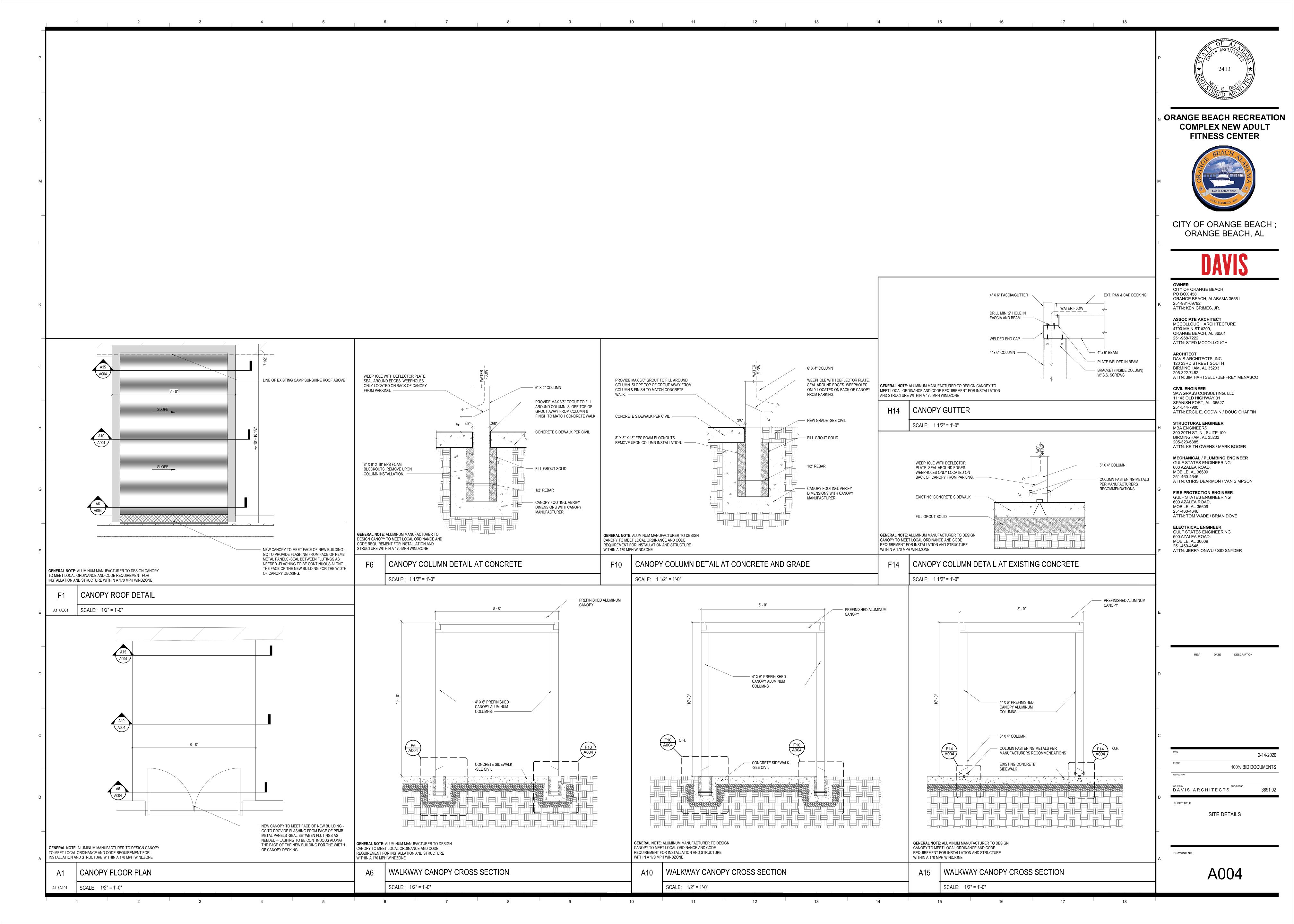
251-981-69792

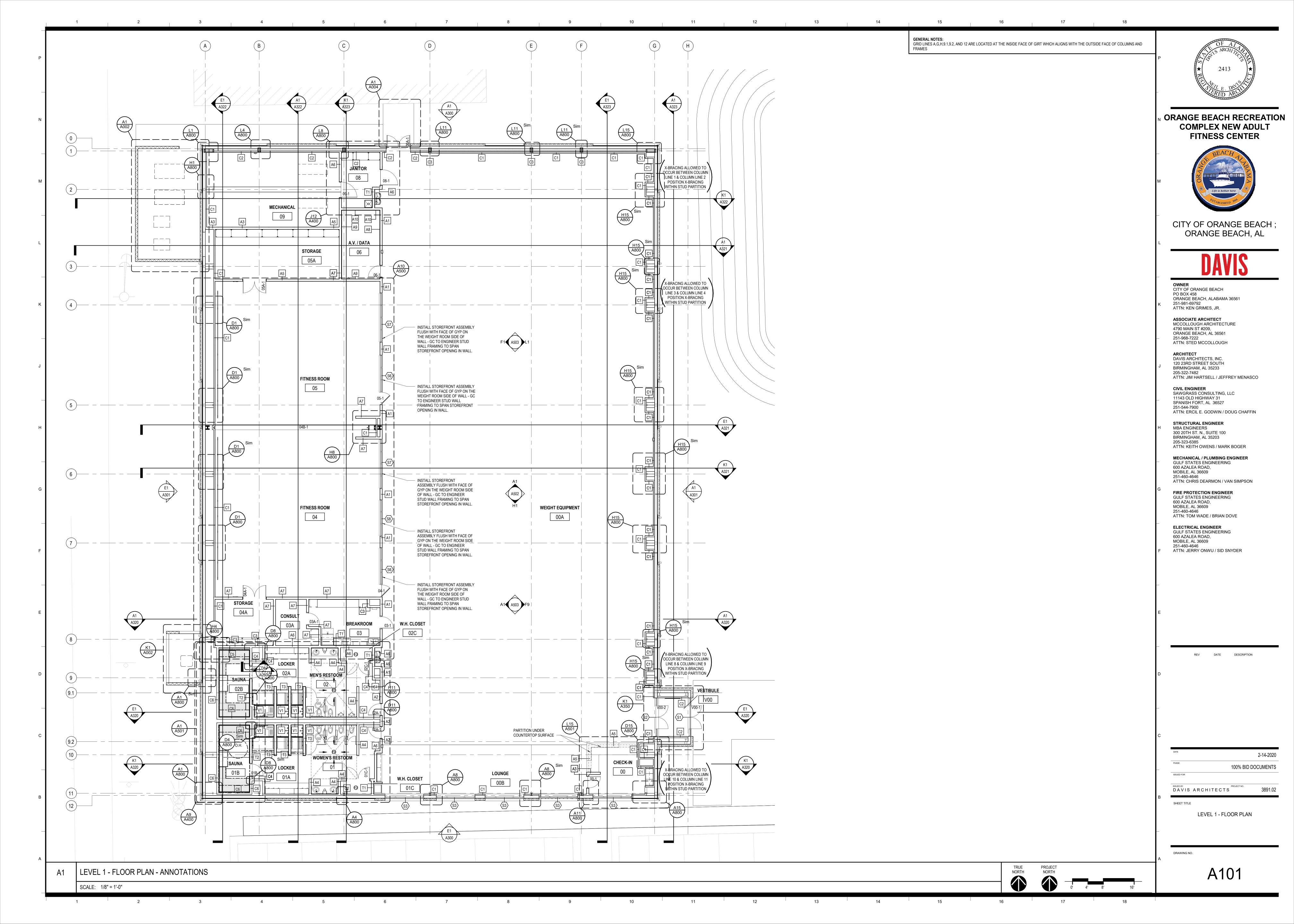


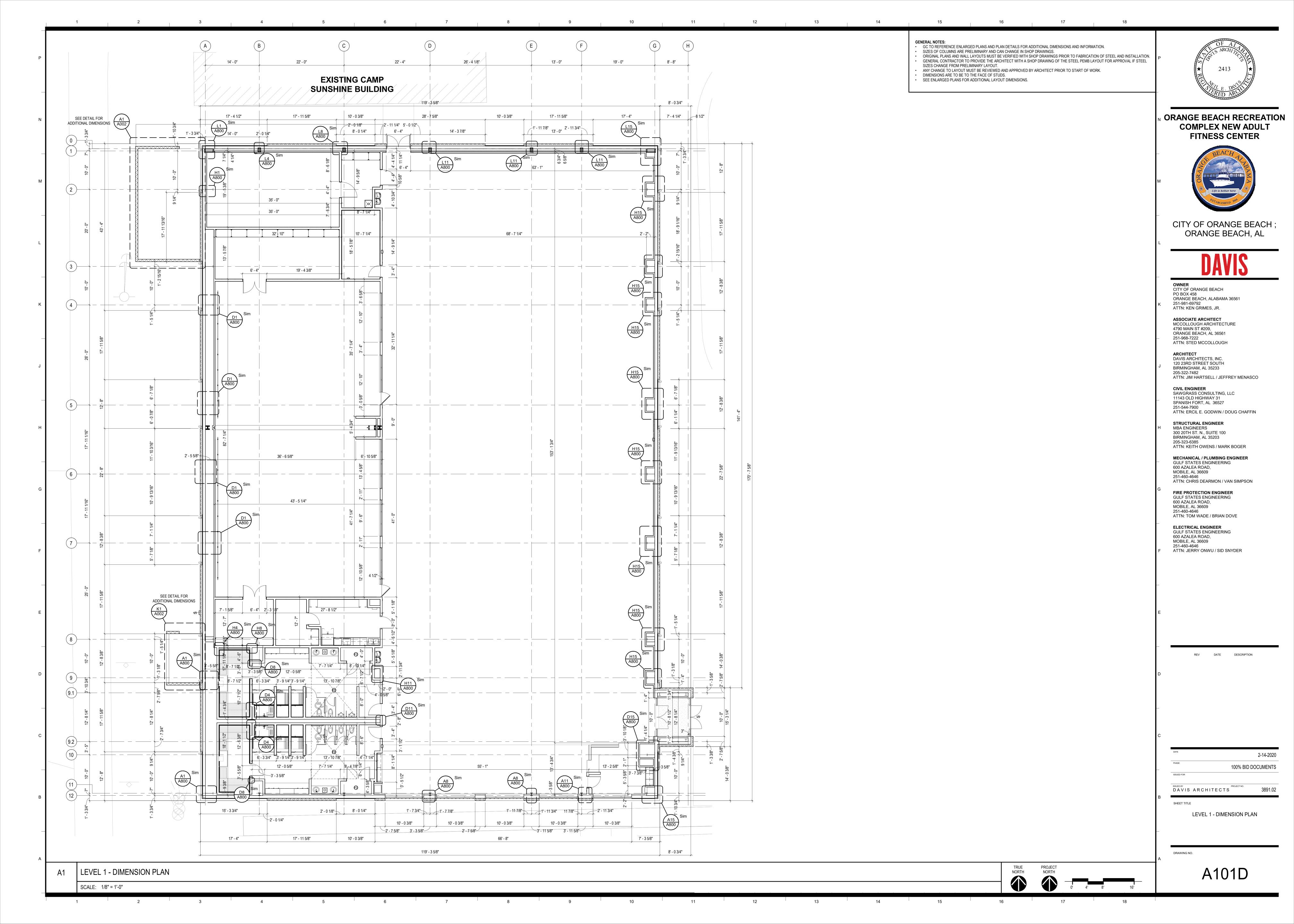


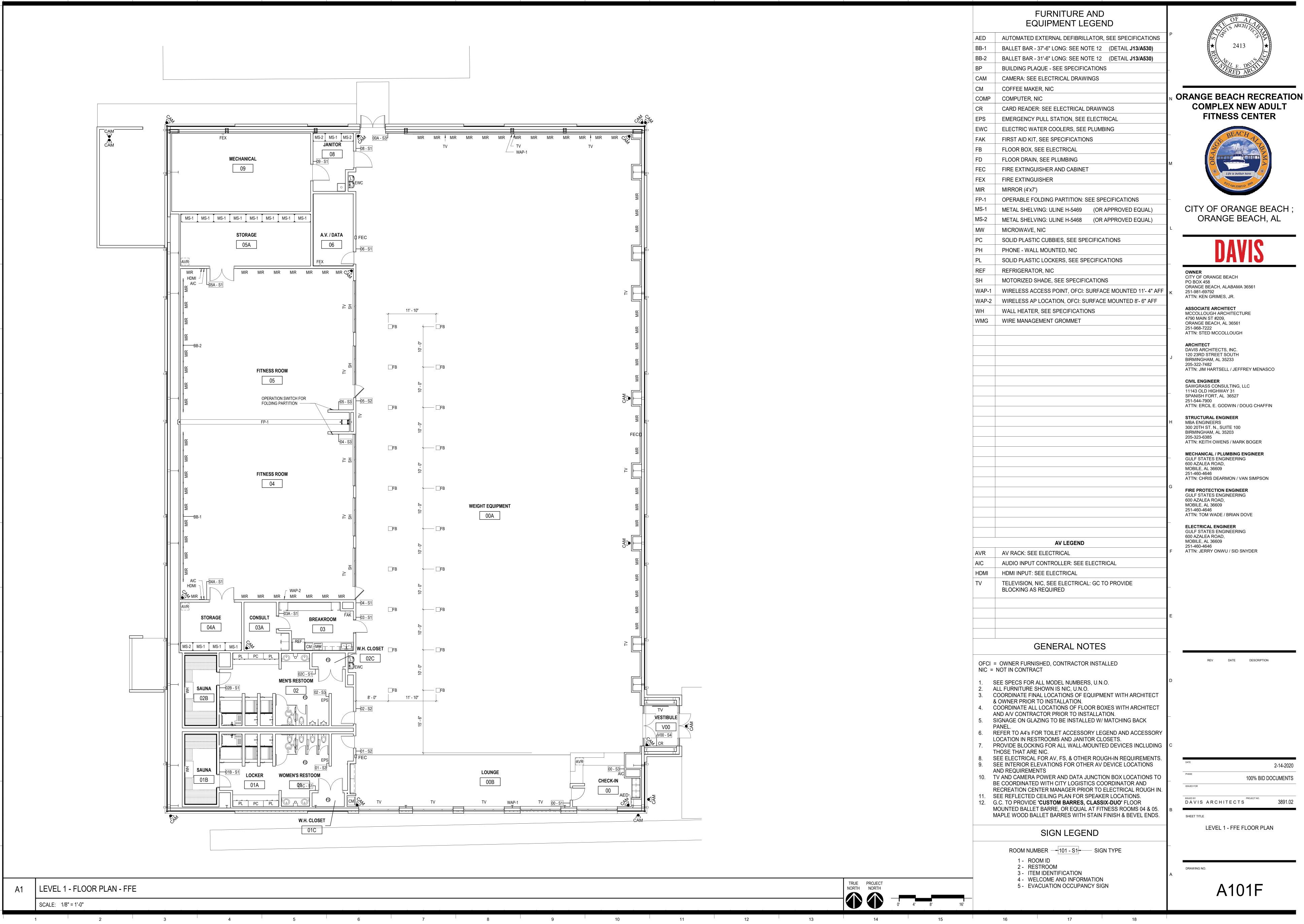




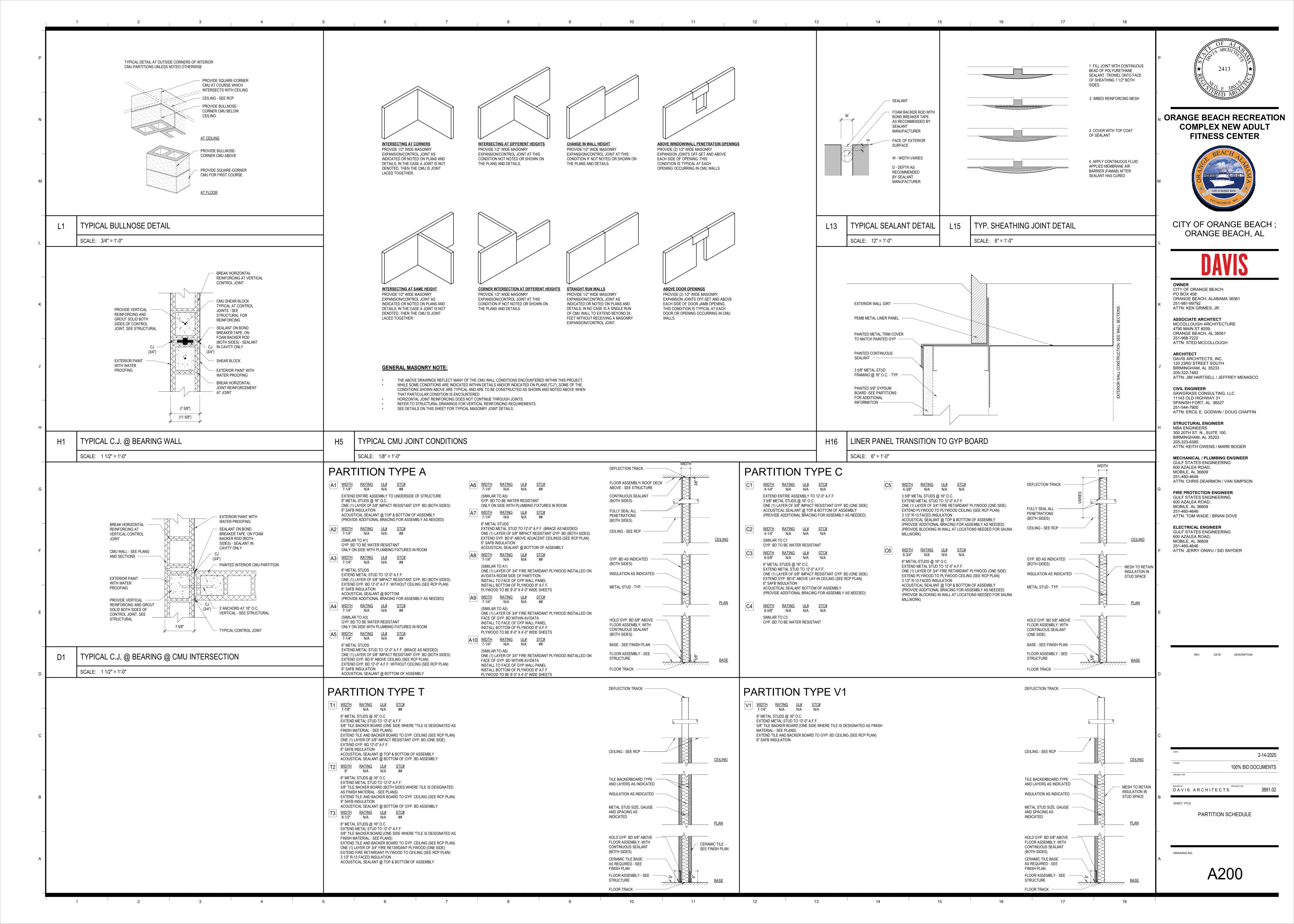


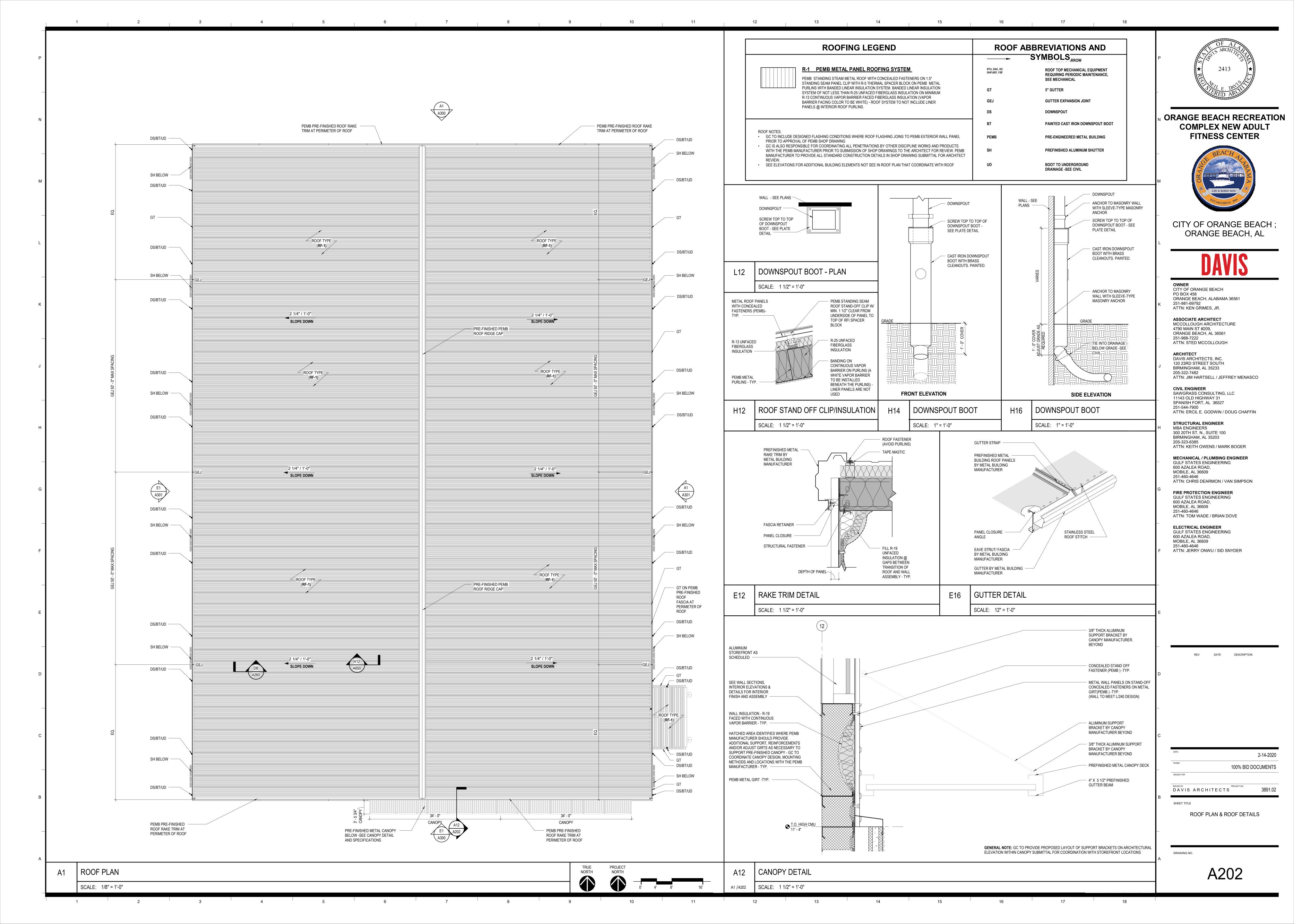


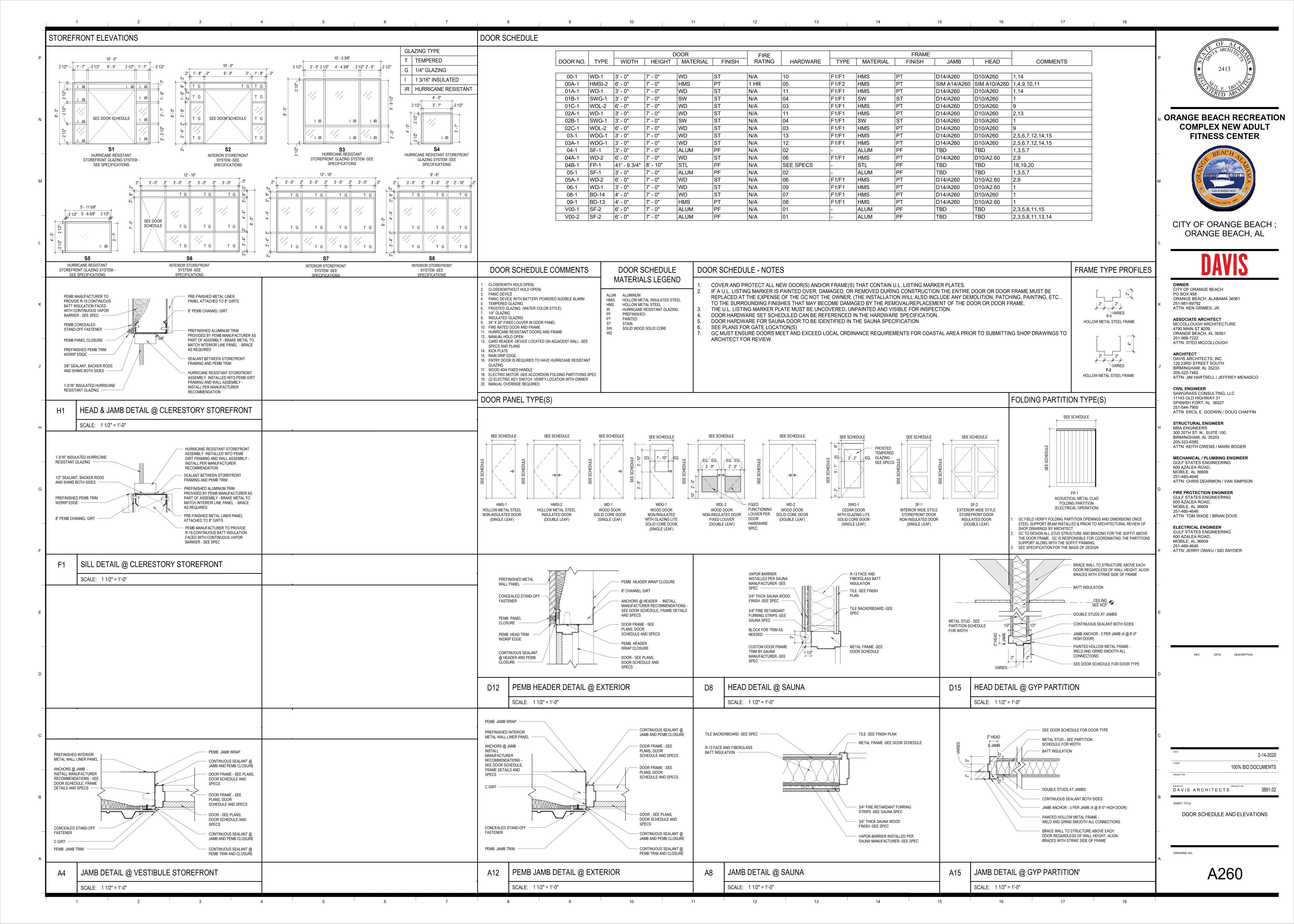


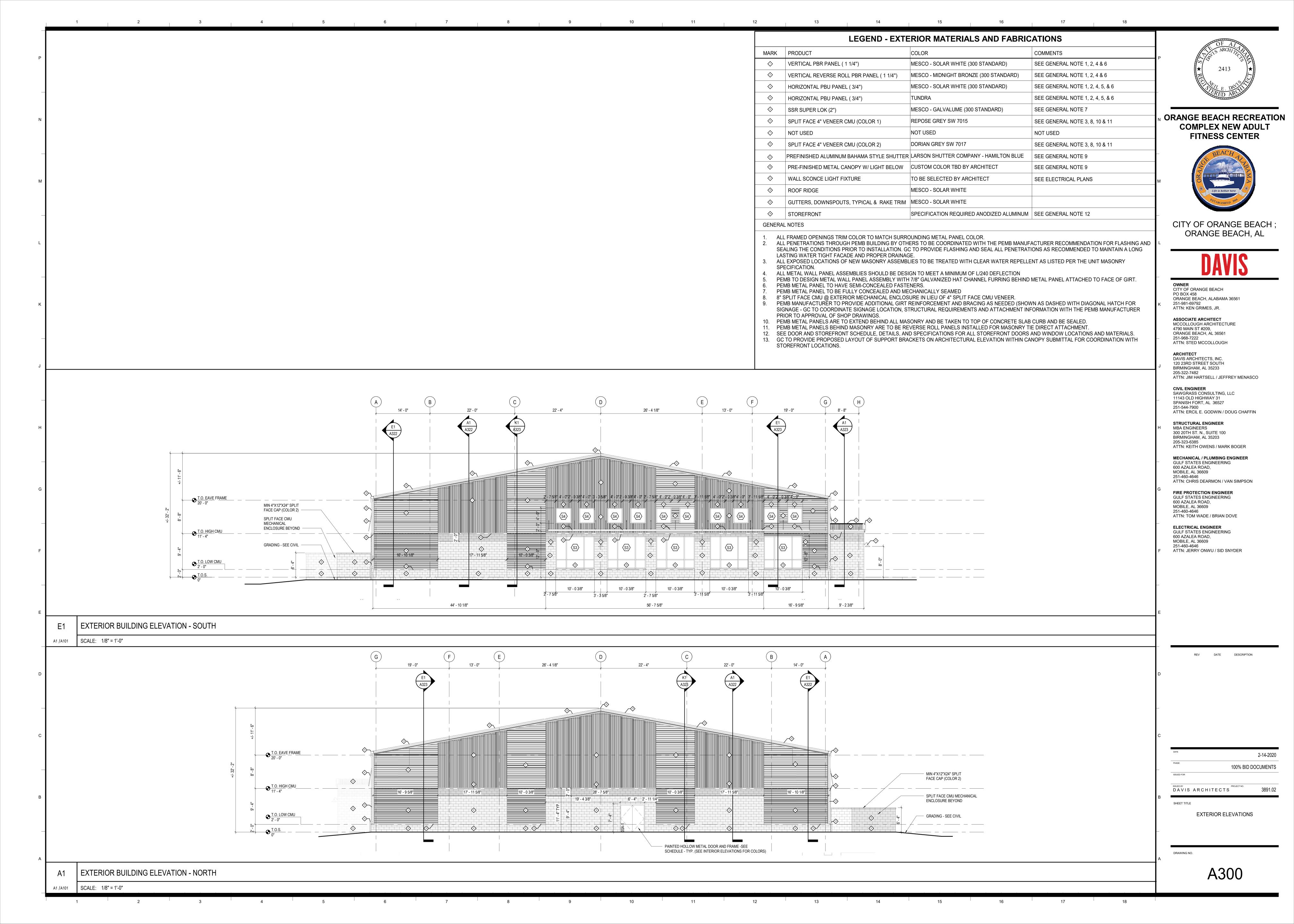


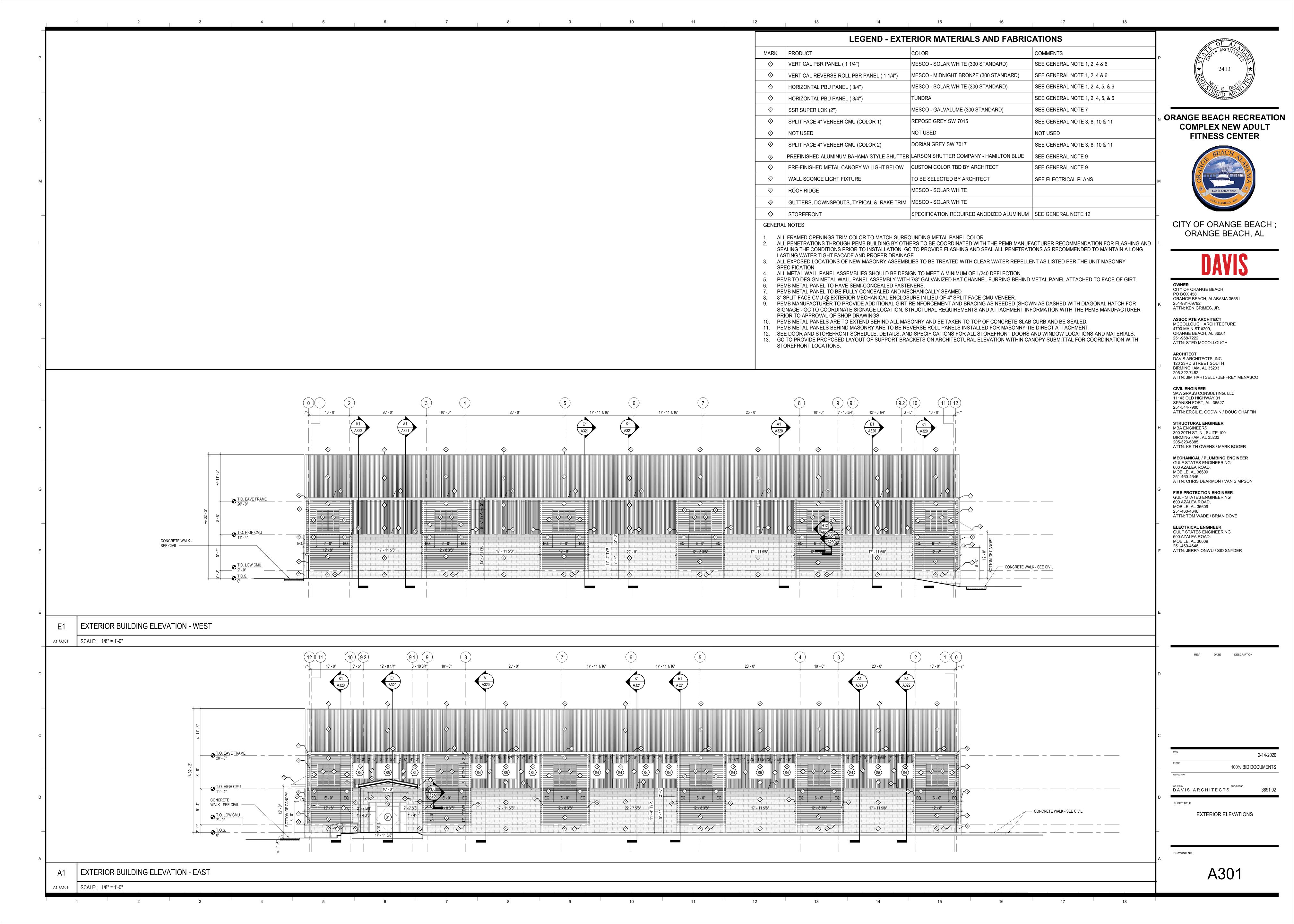
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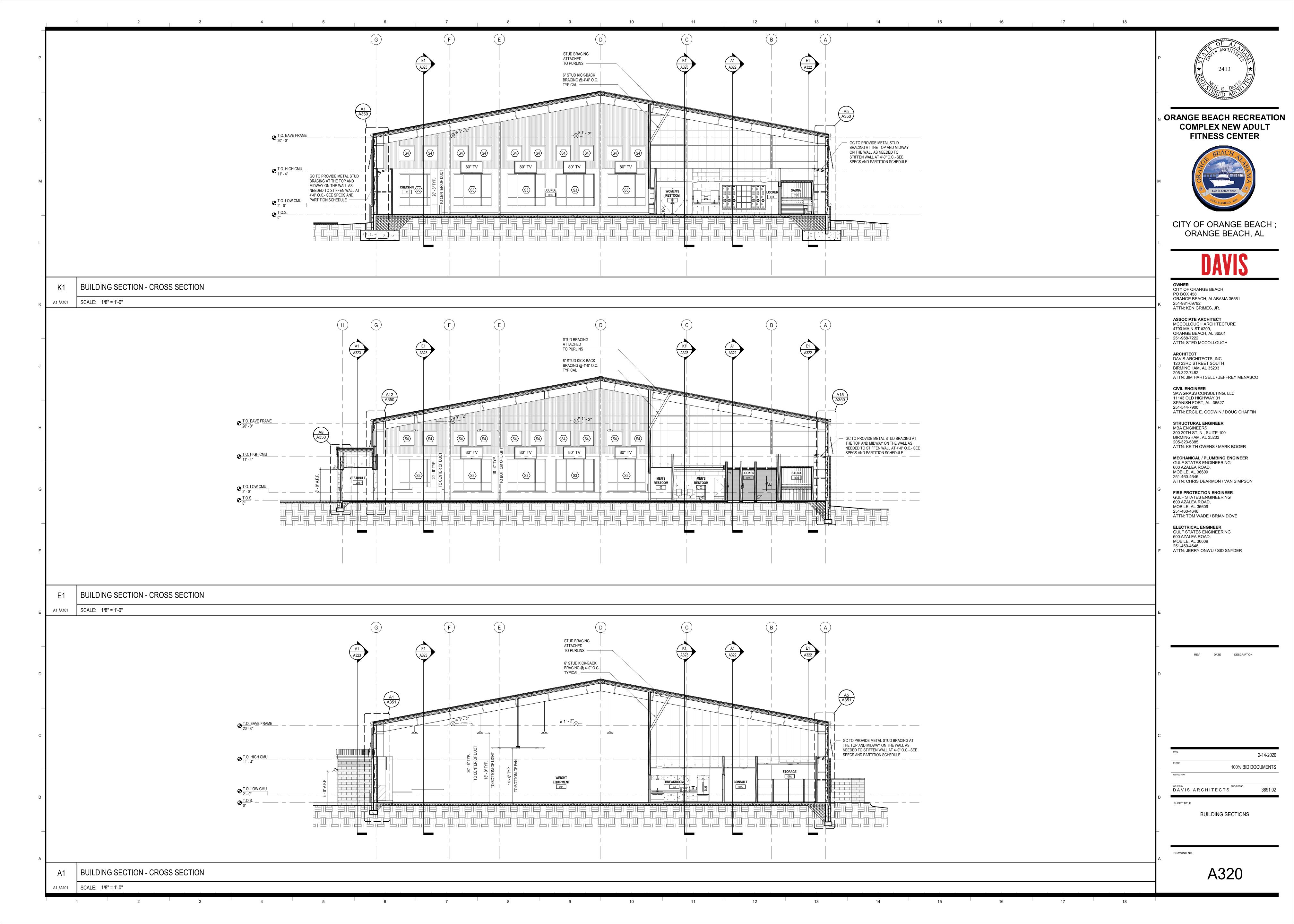


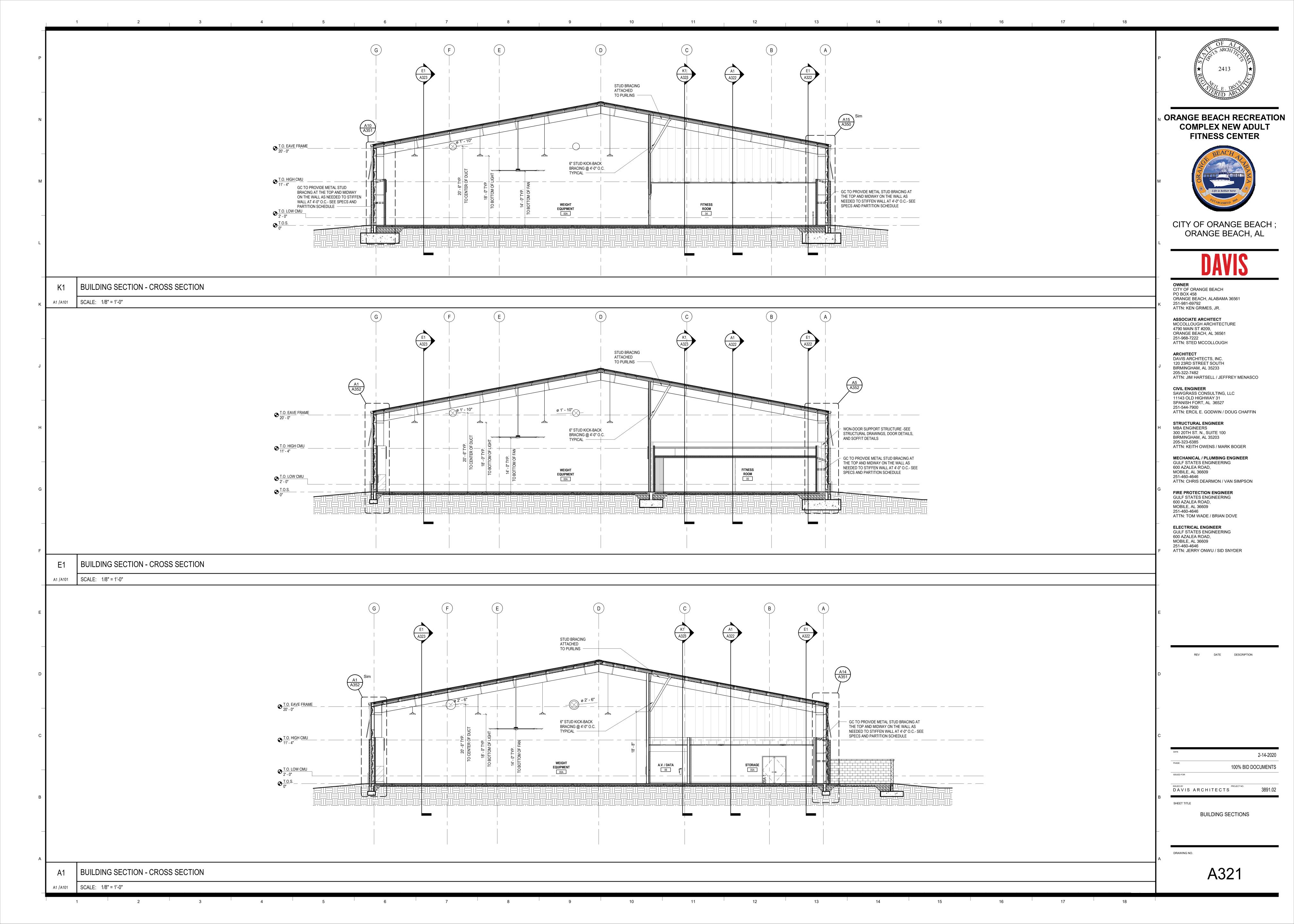


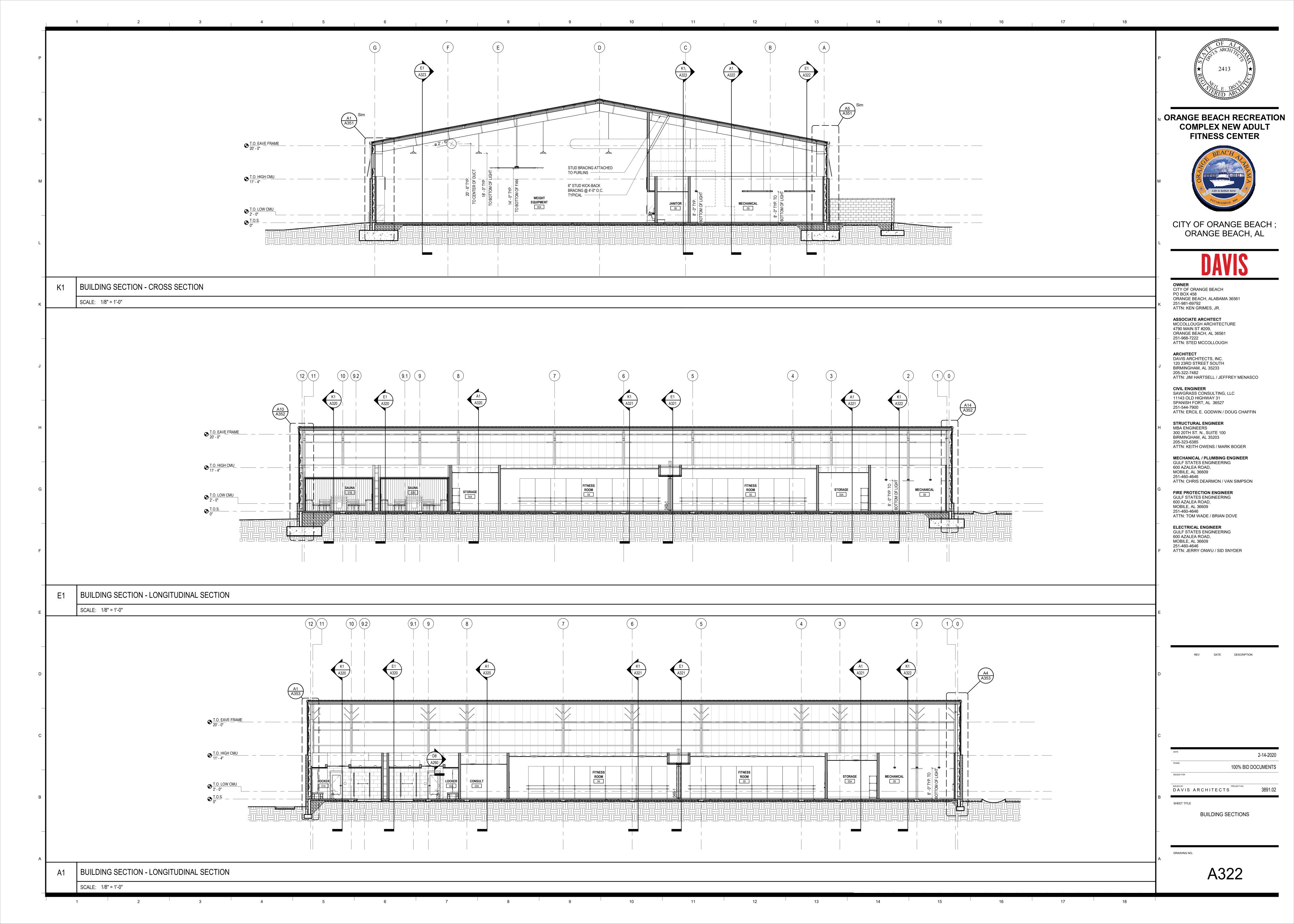


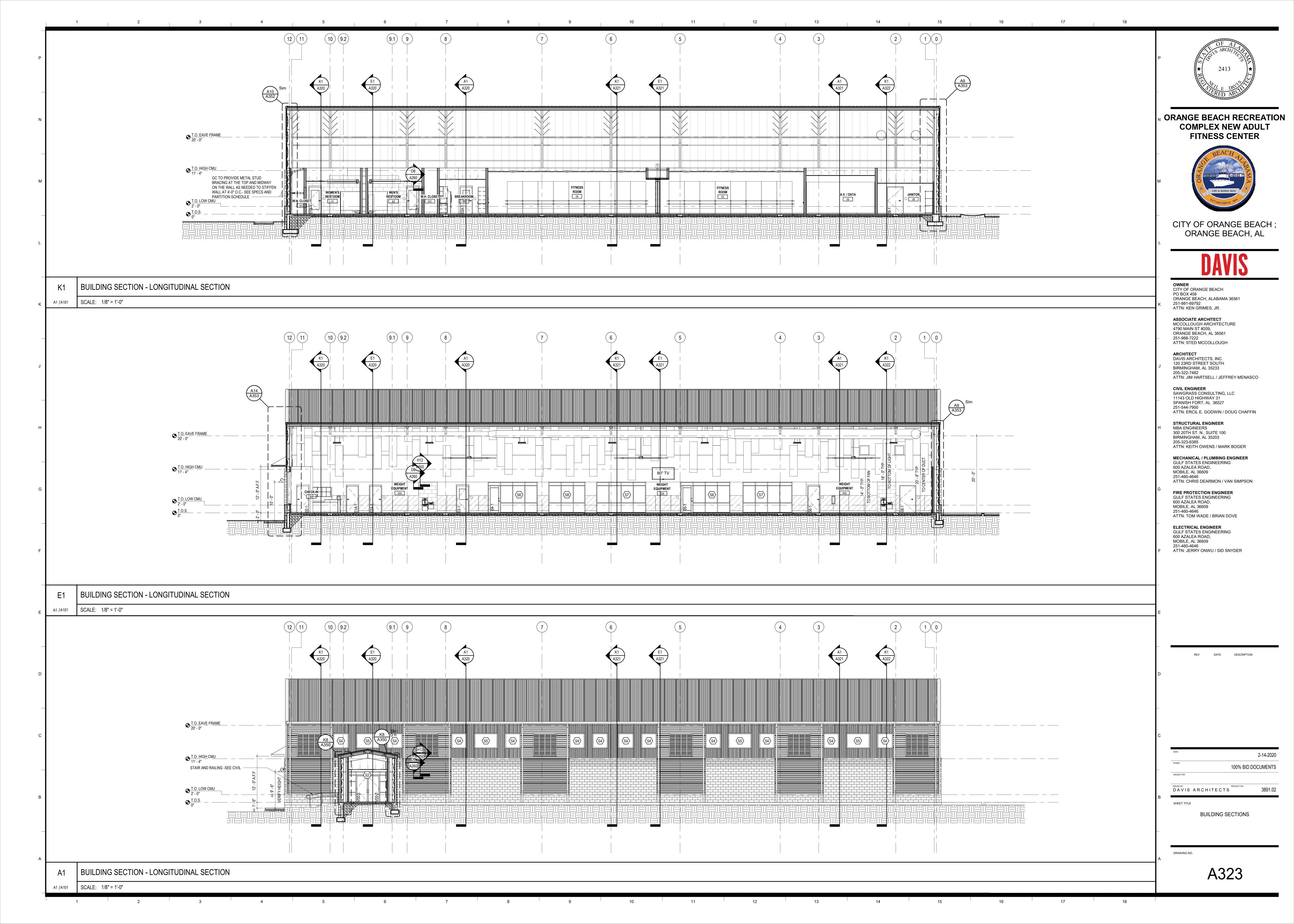


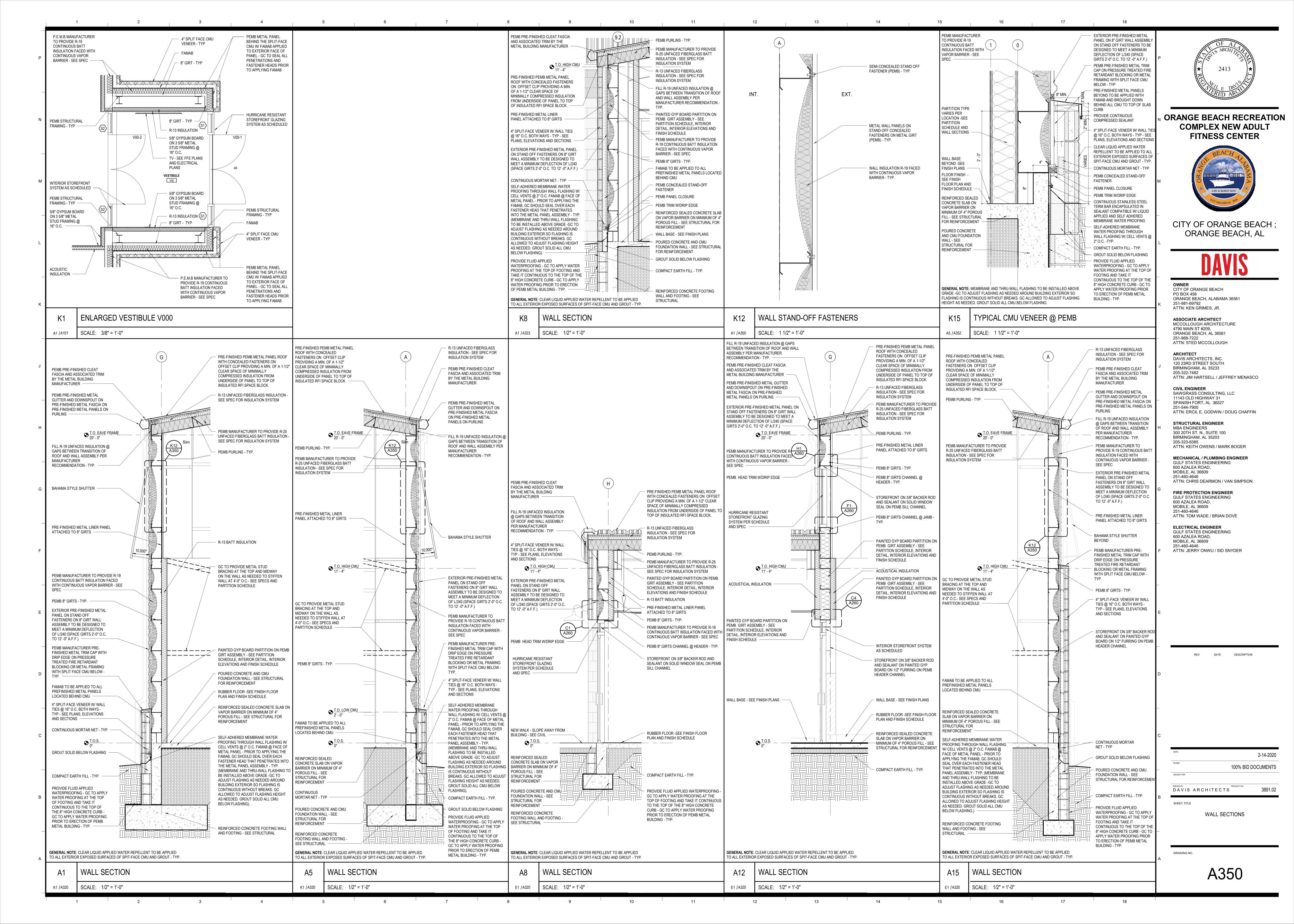


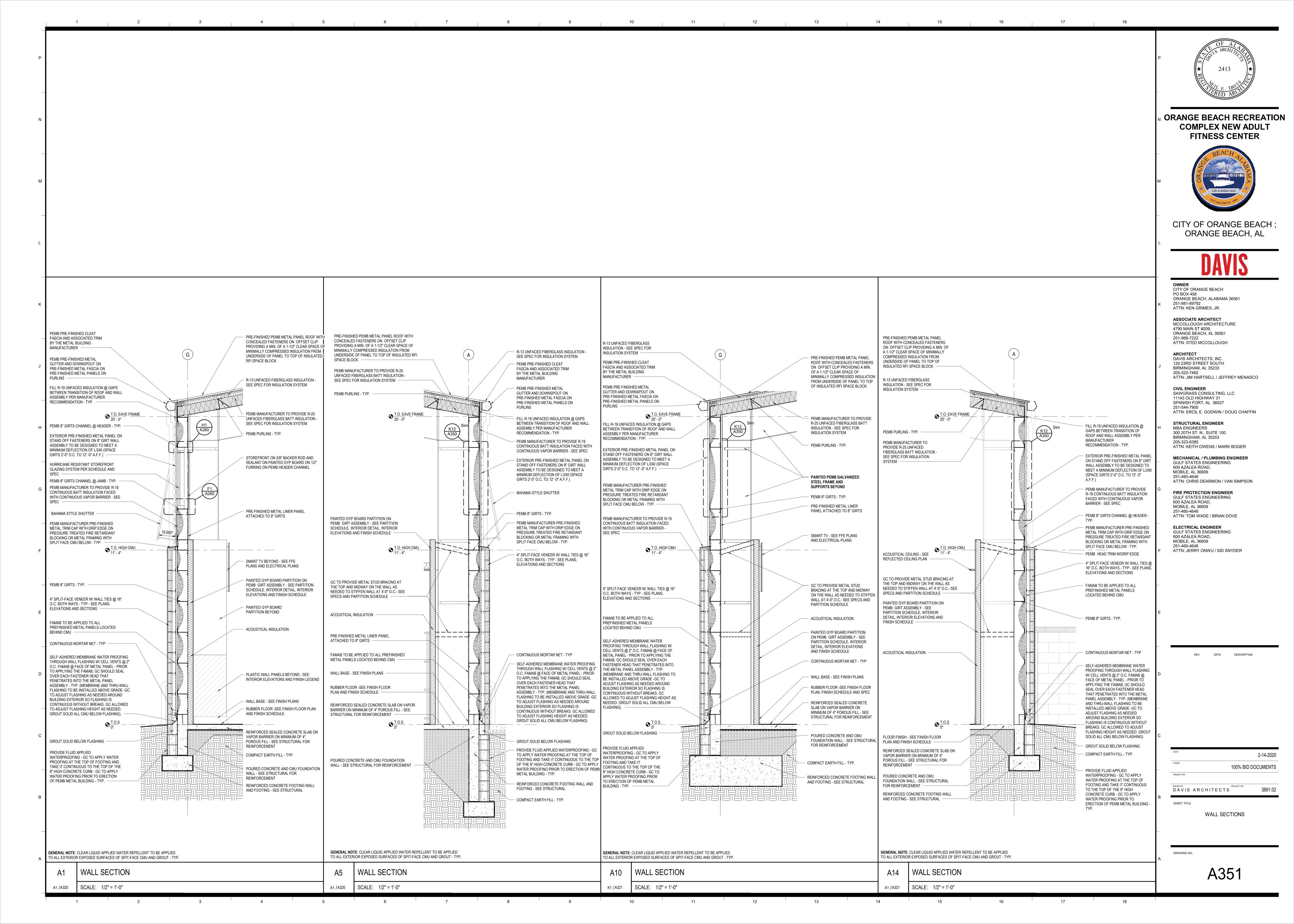
















CITY OF ORANGE BEACH: ORANGE BEACH, AL

CITY OF ORANGE BEACH PO BOX 458 ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222 ATTN: STED MCCOLLOUGH

ARCHITECT DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH BIRMINGHAM, AL 35233

205-322-7482 ATTN: JIM HARTSELL / JEFFREY MENASCO CIVIL ENGINEER SAWGRASS CONSULTING, LLC

11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

STRUCTURAL ENGINEER MBA ENGINEERS 300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646

ATTN: CHRIS DEARMON / VAN SIMPSON **FIRE PROTECTION ENGINEER**

GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: TOM WADE / BRIAN DOVE

ELECTRICAL ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609

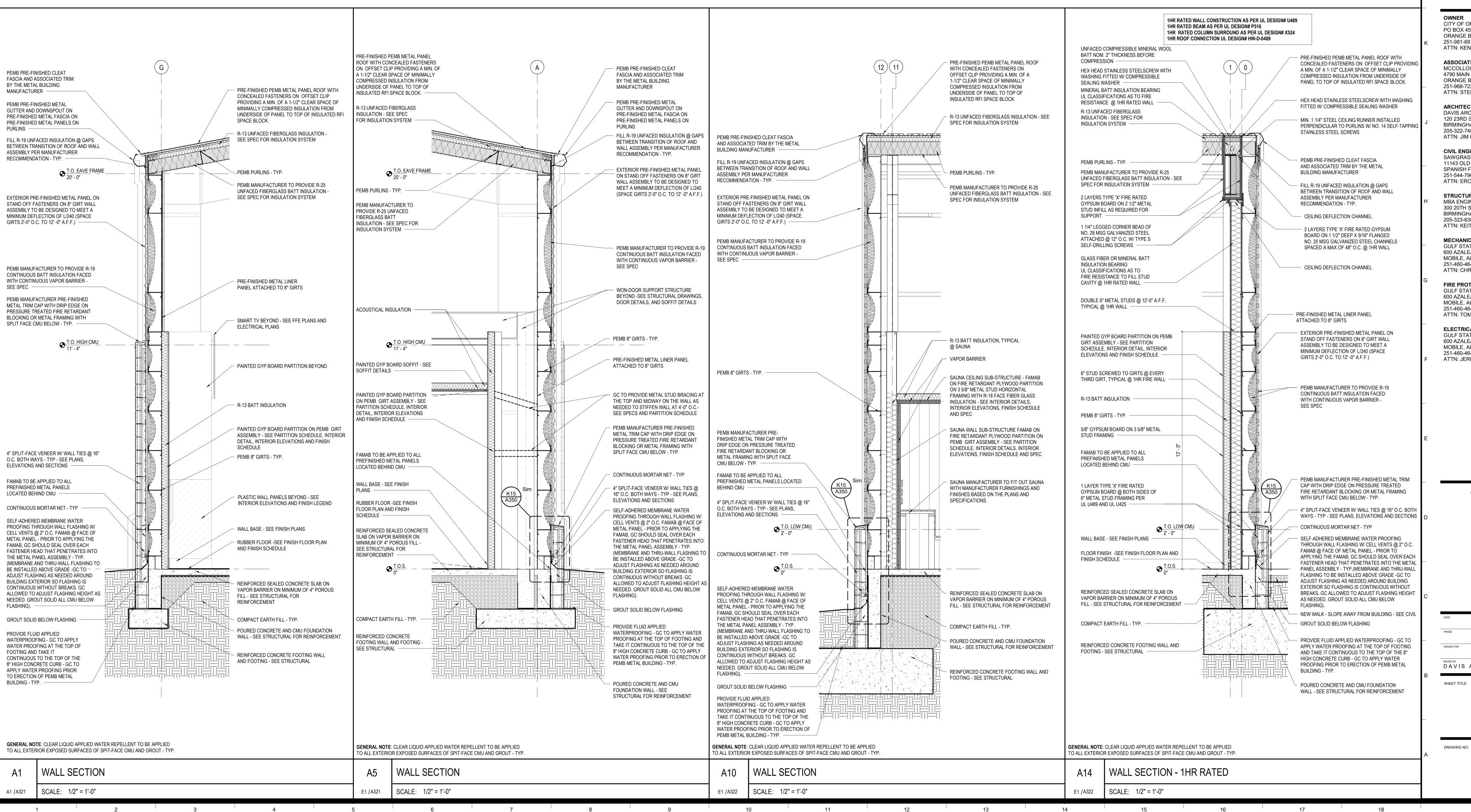
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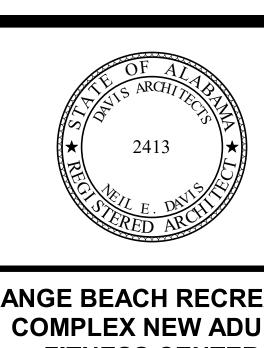
REV DATE DESCRIPTION

100% BID DOCUMENTS

DAVIS ARCHITECTS

WALL SECTIONS





ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH: ORANGE BEACH, AL



CITY OF ORANGE BEACH PO BOX 458 ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

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MOBILE, AL 36609 251-460-4646 ATTN: TOM WADE / BRIAN DOVE **ELECTRICAL ENGINEER** GULF STATES ENGINEERING

600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

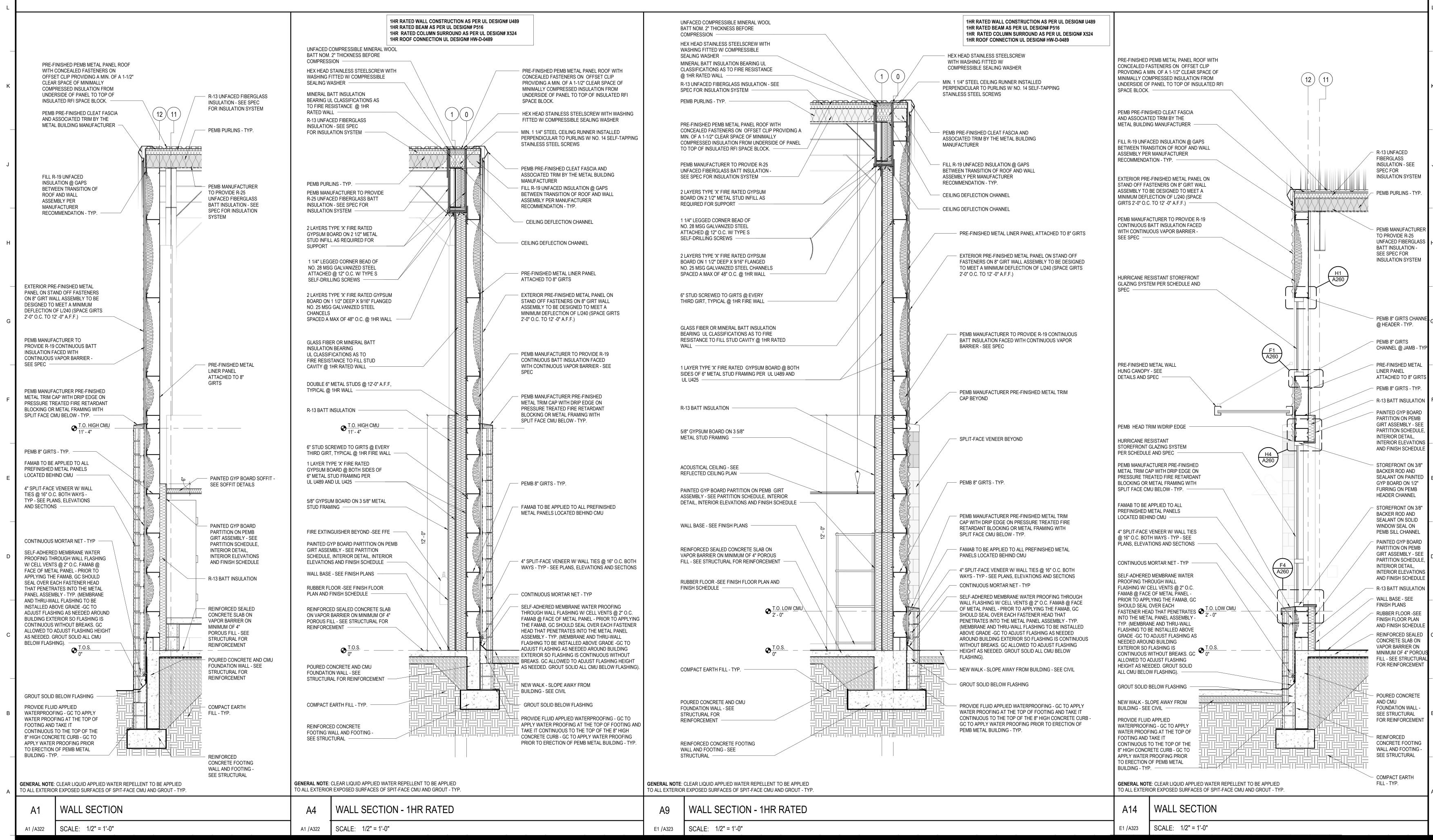
REV DATE DESCRIPTION

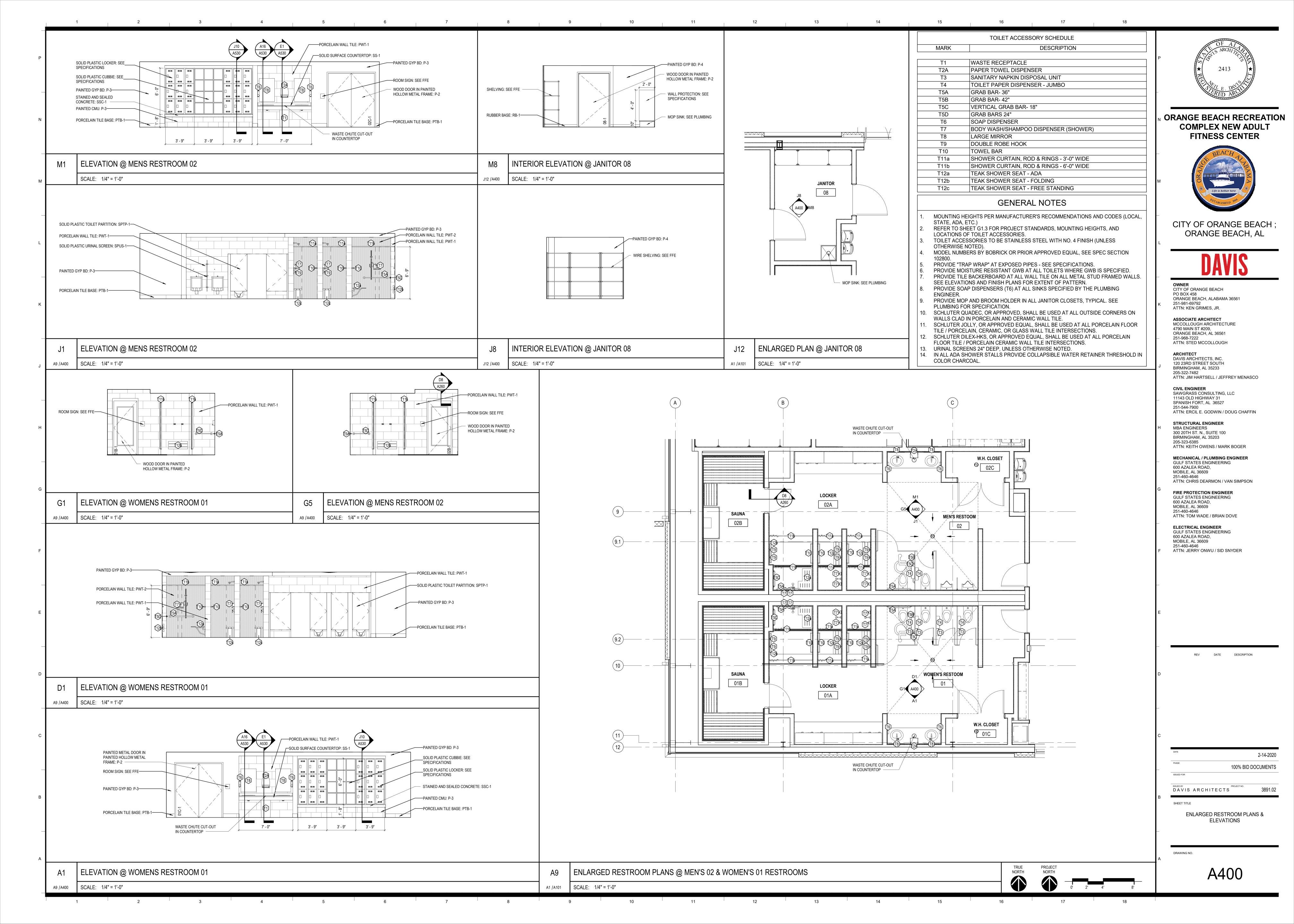
2-14-2020 100% BID DOCUMENTS

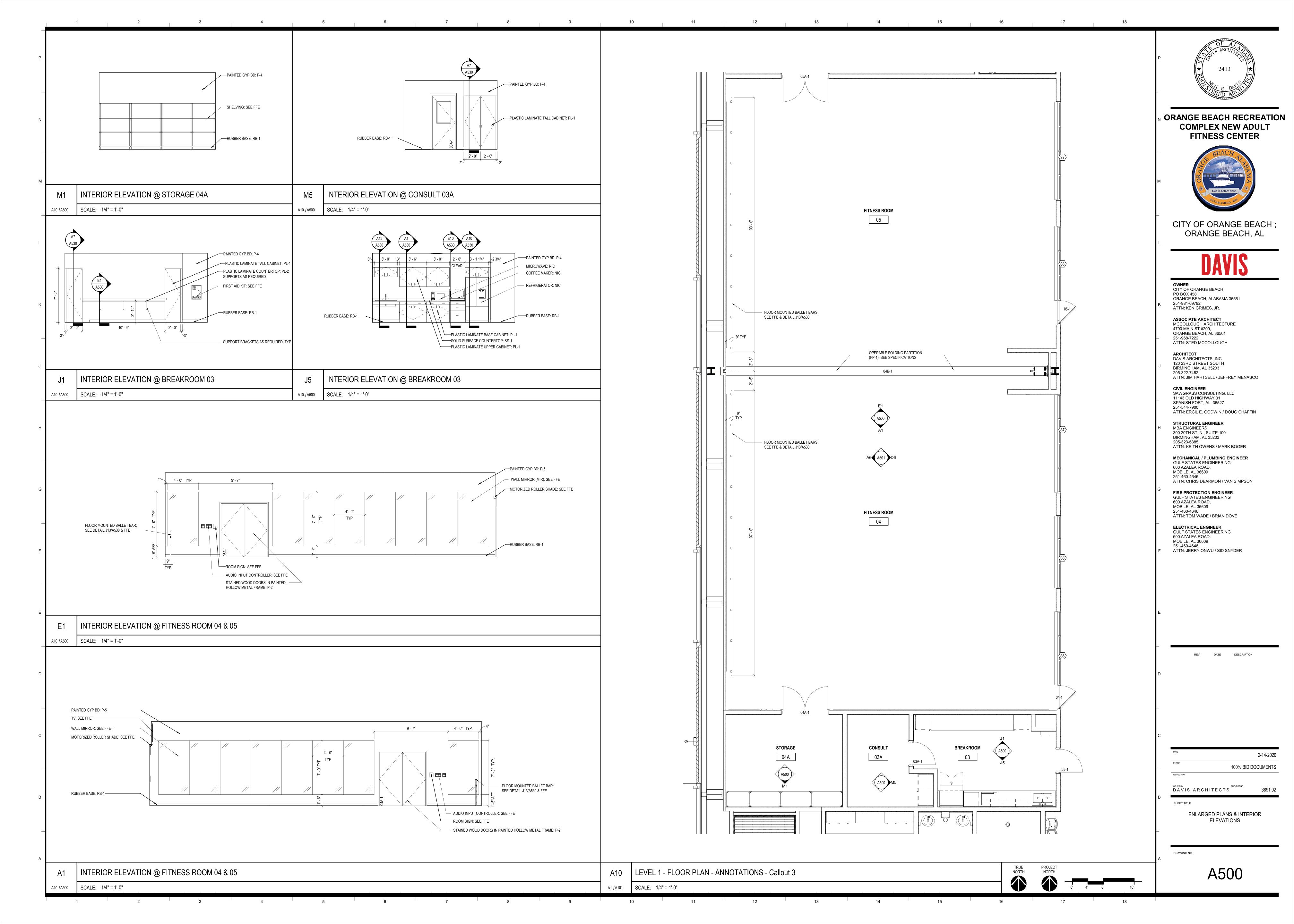
DAVIS ARCHITECTS SHEET TITLE

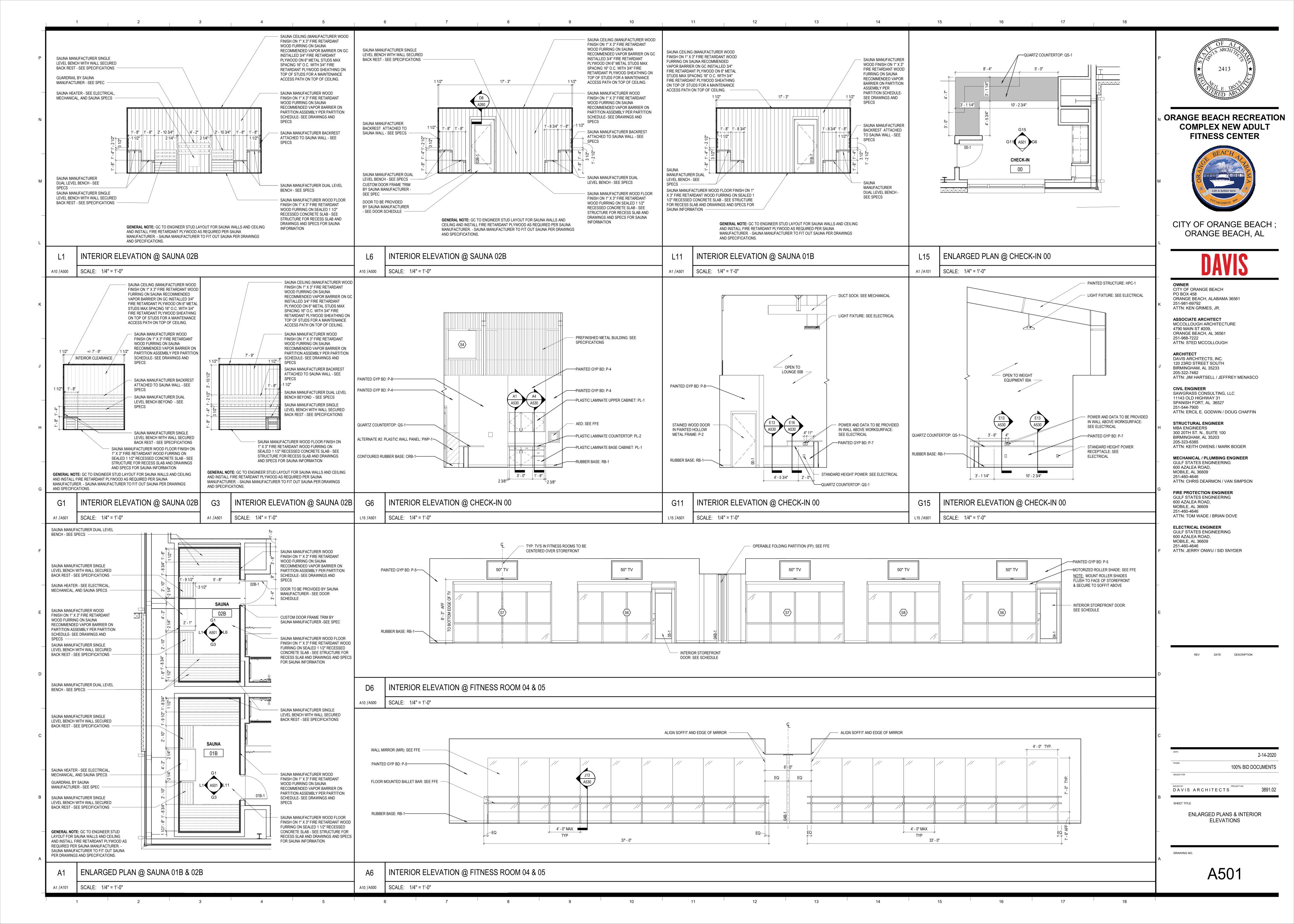
WALL SECTIONS

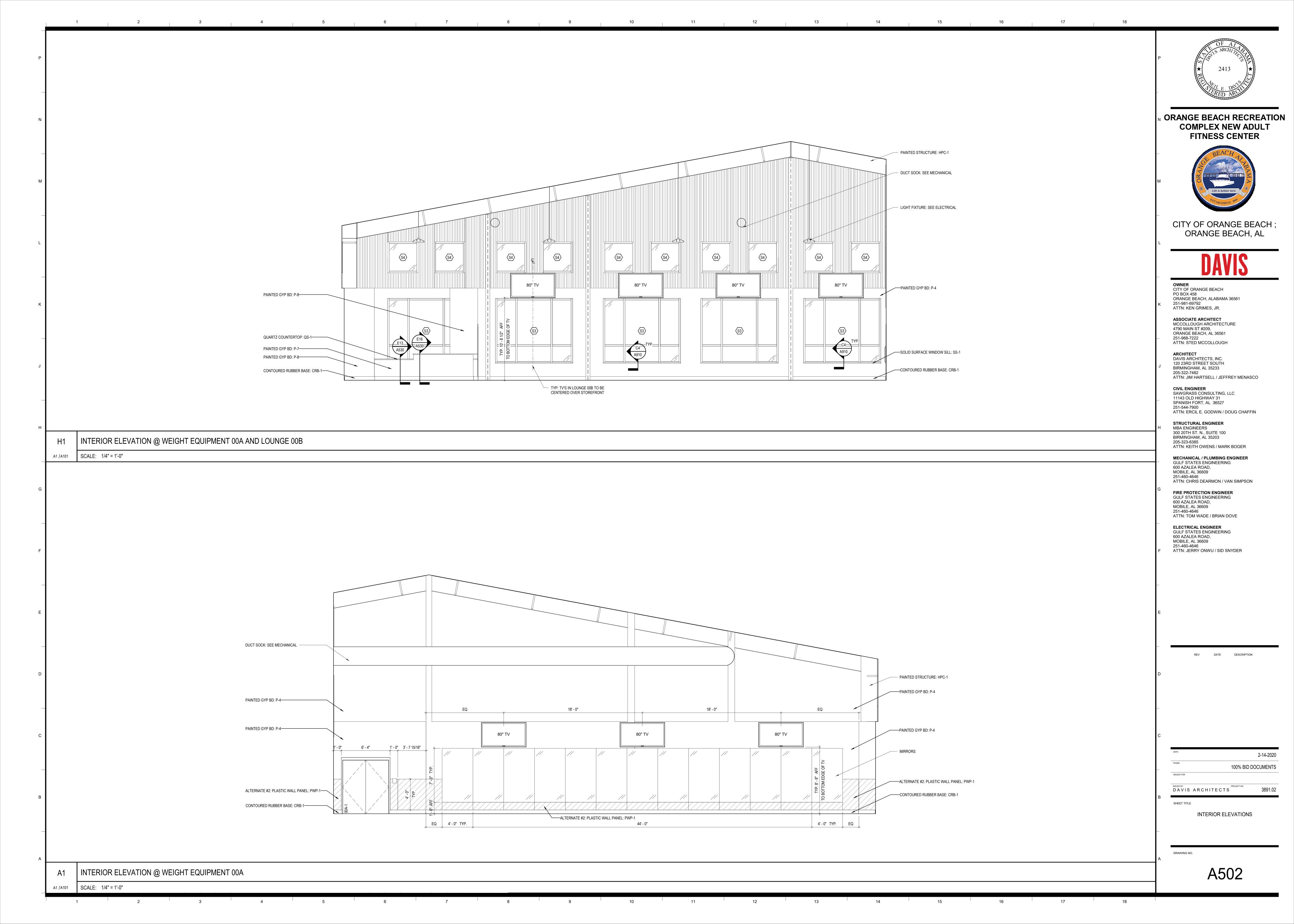
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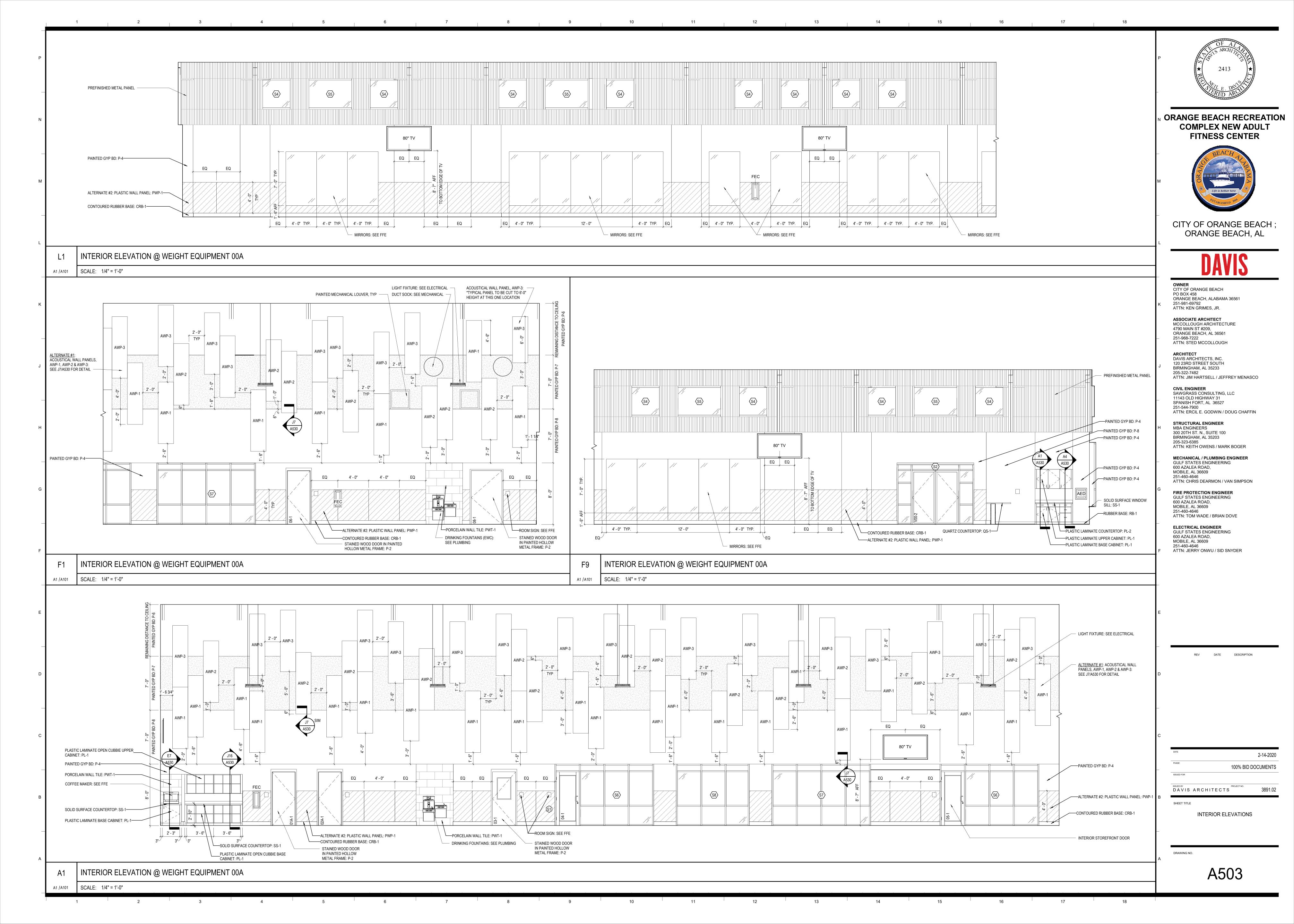


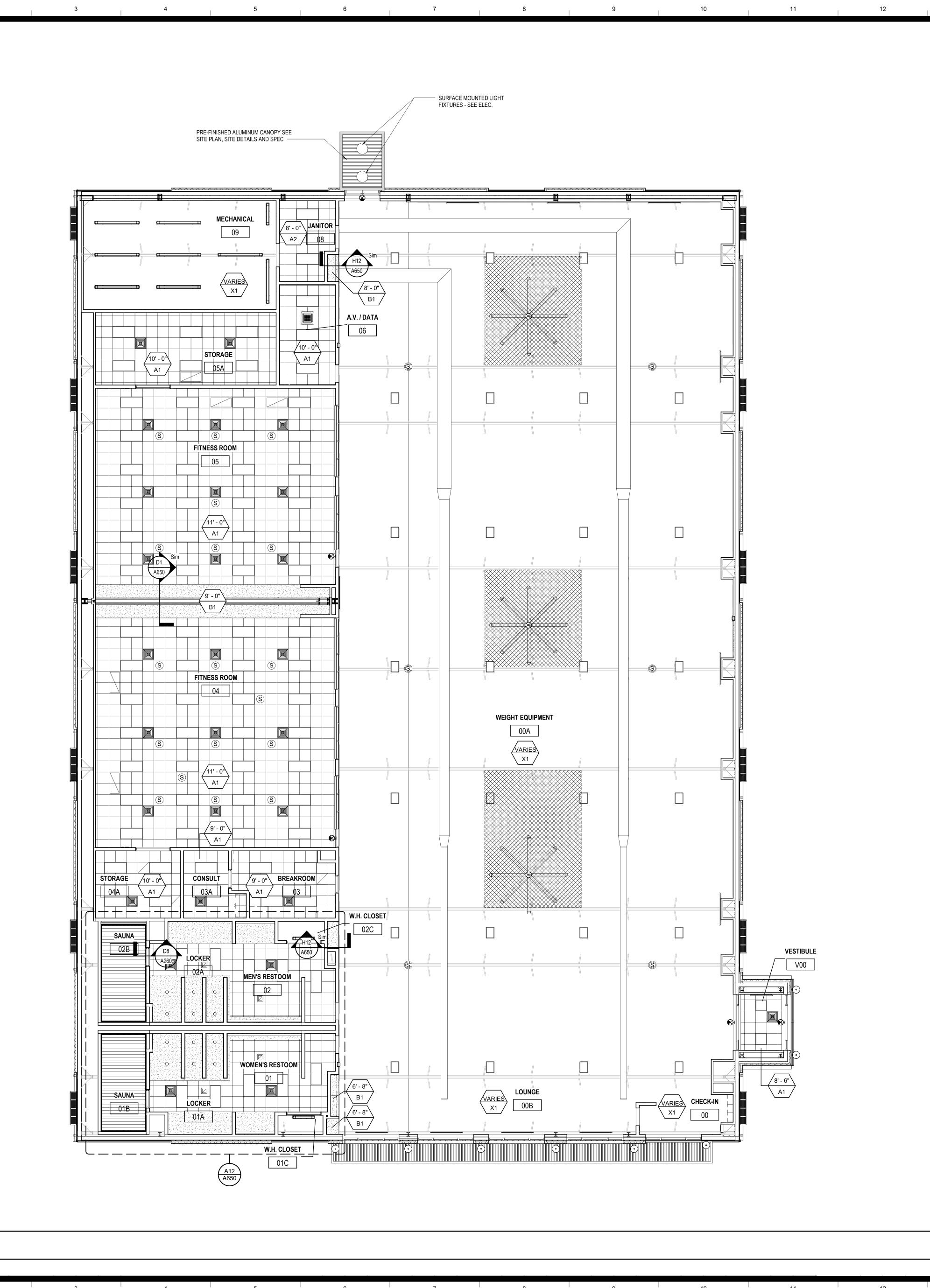












RCP SYMBOLS LEGEND

2 X 2 FIXTURE - SEE ELEC. FLUORESCENT STRIP - SEE ELEC.

2 X 4 FIXTURE - SEE ELEC.

HIGH BEAM LED FIXTURE - SEE ELEC. EXTERIOR GOOSENECK LIGHT FIXTURE -

MECHANICAL RETURN - SEE MECH.

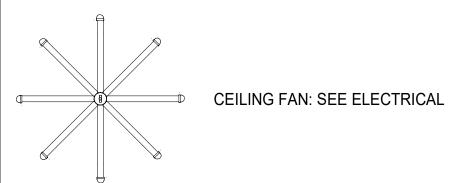
EXIT SIGN - SEE ELEC.

SEE ELEC.

MECHANICAL SUPPLY - SEE MECH.

SPEAKER: CEILING HUNG

SPEAKER: WALL MOUNTED



GENERAL NOTES

- 1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR FINAL CEILING DEVICES (I.E. LIGHT FIXTURES, HVAC GRILLS, ETC). COORDINATE LOCATIONS WITH ARCHITECT.
- 2. ALL ELECTRICAL ITEMS AND LOCATIONS TO BE COORDINATED WITH ELECTRICAL DRAWINGS AND ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.
- DIMENSIONS INDICATED ARE NOMINAL AT MASONRY OPENINGS - SEE WALL SECTIONS.
- 4. HEIGHTS INDICATED ARE RELATIVE TO FLOOR LEVEL WHERE CEILING TAG IS LOCATED UNLESS OTHERWISE NOTED. CONTRACTOR TO PROVIDE ALL ACCESS PANELS IN REQUIRED GYPSUM BOARD CEILINGS TO COORDINATE WITH MEP. PAINT SAME COLOR AS CEILING. COORDINATE LOCATIONS AROUND LIGHTING AND MECHANICAL FIXTURES AND INDICATE ON
- REVIEW PRIOR TO INSTALLATION. 6. USE WATER GASKET SEALED ACCESS PANELS WHEN
- LOCATED IN GYP CEILINGS IN SHOWERS. 7. UNLESS NOTED OTHERWISE, ALL UTILITIES (CONDUIT, WIRING, ETC.), STRUCTURE, & DUCTWORK SHALL BE PAINTED TO

SHOP/COORDINATION DWGS SUBMITTED TO ARCHITECT FOR

- MATCH THE ADJACENT PAINTED SURFACE. 8. ALL SPRINKLER HEADS SHALL BE CENTERED VERTICALLY AND HORIZONTALLY IN ACT TILES, TYPICAL.
- 9. SEE FINISH LEGEND FOR MORE INFORMATION. 10. SEE FFE PLANS FOR ADDITIONAL ABBREVIATIONS. 11. SEE ELECTRICAL LIGHTING PLAN FOR EMERGENCY LIGHT
- LOCATIONS. 12. AT CEILING TYPE X1, VINYL FAMAB TO REMAIN UNPAINTED.

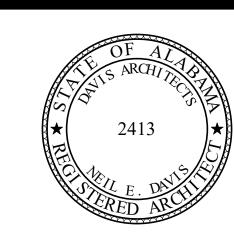
MATERIALS LEGEND

A1	2X2 ACOUSTICAL LAY-IN CEILING AND GRID - STANDARD	
A2	2X2 ACOUSTICAL LAY-IN CEILING AND GRID - MOISTURE RESISTANT	
B1	GYPSUM BOARD, PAINTED P-1, UNO	
B2	MOISTURE RESISTANT GYPSUM BOARD, PAINTED P-1, UNO	
C1	CEDAR CEILING: PART OF SAUNA PACKAGE, SEE SPECIFICATIONS	
X1	EXPOSED CEILING, PAINTED P-1, UNO	
X2	EXPOSED CEILING, UNPAINTED	

MISC LEGEND

GC TO HAVE PEMB MANUFACTURER TO PROVIDE ADDITIONAL STRUCTURE, BEAMS AND/OR BRACING FOR CEILING HUNG GYM GC TO COORDINATE GYM EQUIPMENT STRUCTURAL NEEDS WITH PEMB

PROJECT NORTH



ORANGE BEACH RECREATION **COMPLEX NEW ADULT FITNESS CENTER**



CITY OF ORANGE BEACH; ORANGE BEACH, AL

CITY OF ORANGE BEACH PO BOX 458 ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222 ATTN: STED MCCOLLOUGH

ARCHITECT DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH BIRMINGHAM, AL 35233

205-322-7482 ATTN: JIM HARTSELL / JEFFREY MENASCO CIVIL ENGINEER

11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

STRUCTURAL ENGINEER

SAWGRASS CONSULTING, LLC

MBA ENGINEERS 300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609

251-460-4646 ATTN: CHRIS DEARMON / VAN SIMPSON FIRE PROTECTION ENGINEER

GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: TOM WADE / BRIAN DOVE

ELECTRICAL ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

REV DATE DESCRIPTION

2-14-2020

100% BID DOCUMENTS

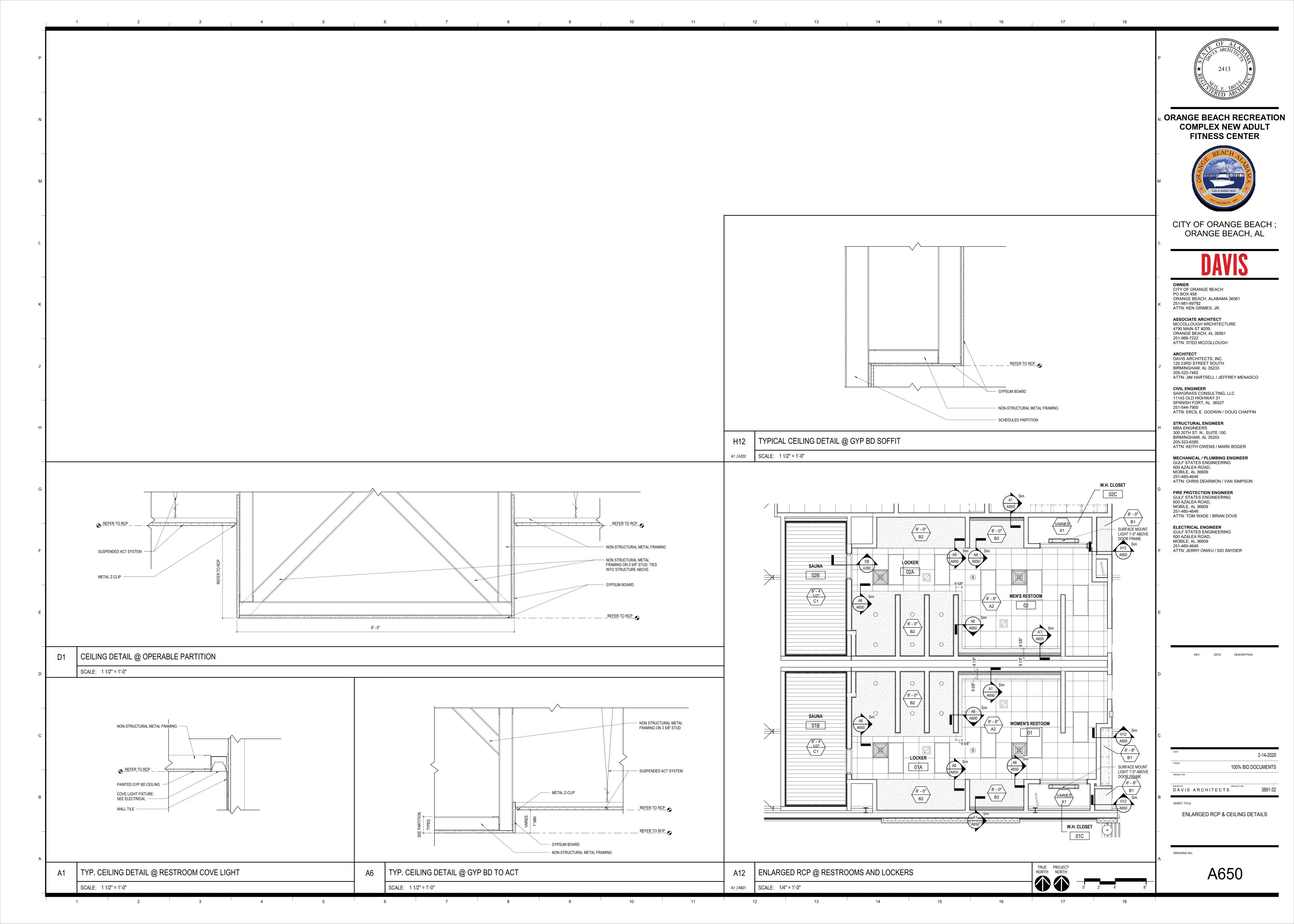
DAVIS ARCHITECTS

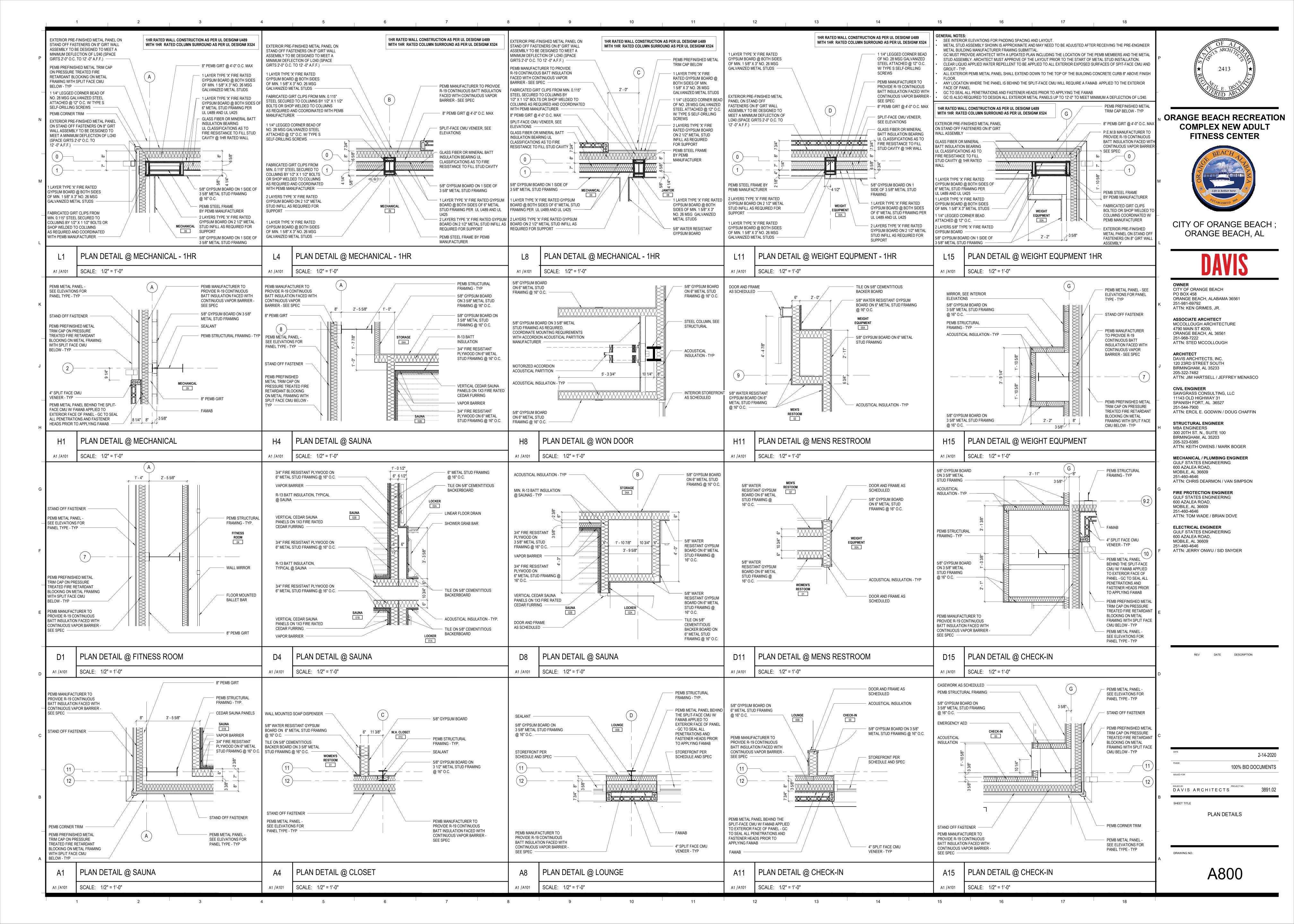
SHEET TITLE LEVEL 1 - REFLECTED CEILING PLAN

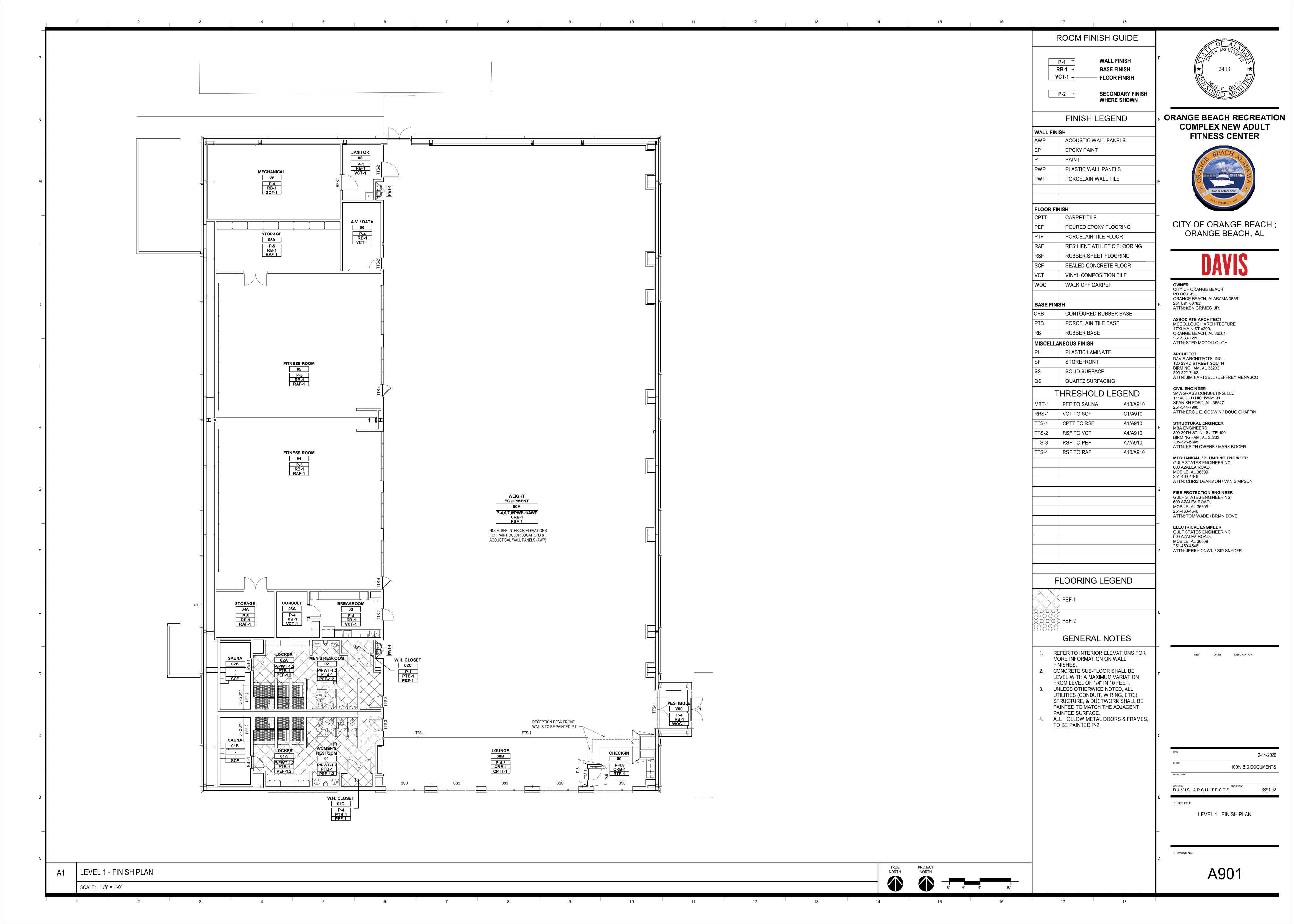
DRAWING NO.

A601

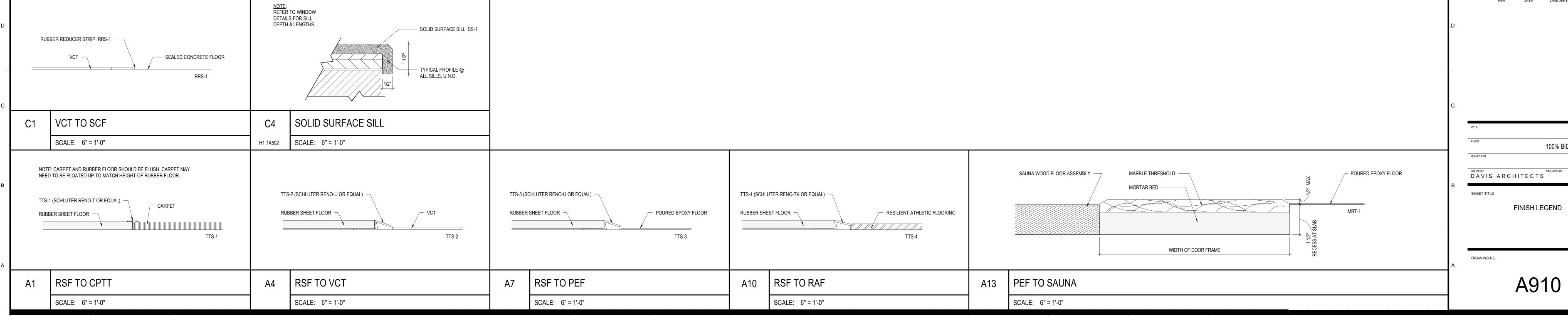
SCALE: 1/8" = 1'-0"

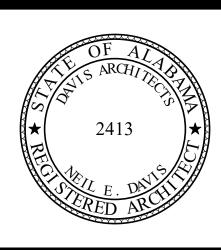






CODE	FLOOR MATERIAL	FLOOR MANUFACTURER	STYLE / PATTERN	COLOR	SIZE	FINISH NOTES	CONTACT	FLOOR PHONE
CPTT-1	CARPET TILE	MILLIKEN	EDGE LIT	BLACK LIGHT EDG133-229	1M x 1M	ASHLAR INSTALLATION		
PEF-1	POURED EPOXY FLOORING	SHERWIN WILLIAMS	REFER TO SPECIFICATIONS	CUSTOM BLEND		RESTROOM AND LOCKER ROOM FLOOR	GARY SULLIVAN	205.705.0313
PEF-2	POURED EPOXY FLOORING	SHERWIN WILLIAMS	REFER TO SPECIFICATIONS	CUSTOM BLEND		SHOWER FLOOR	GARY SULLIVAN	205.705.0313
RAF-1	RESILIENT ATHLETIC FLOORING	GERFLOR	TARAFLEX SPORTS M PLUS DRYTEX	MAPLE			AL DAVIS	615.585.1810
RSF-1	RUBBER SHEET FLOORING	MONDO	RAMFLEX	G707 GREY	6' x 42'-7"	10MM THICK	DANNY BRUNO	704.408.9994
SCF	SEALED CONCRETE FLOOR	SEE SPECIFICATIONS						
VCT-1	VINYL COMPOSITE TILE	ARMSTRONG FLOORING	IMPERIAL TEXTURE STANDARD EXCELON	51875 MID GRAYED BLUE	12" x 12"		DARIN WEISEMILLER	404.596.0134
WOC-1	WALK-OFF CARPET	J+J FLOORING	INCOGNITO	ESPIONAGE 1838	24" x 24"		DEBBIE DEASON	205.500.9221
· · · · · · · · · · · · · · · · · · ·								
CRB-1	CONTOURED RUBBER BASE	JOHNSONITE	MANDALAY	63 BURNT UMBER	6" HIGH			
PTB-1	PORCELAIN TILE BASE	CONCEPT SURFACES	HAYES SERIES AT3410	TENDER GRAY BRIGHT U761	4" x 6"		DON TEIJELO	504.258.9944
RB-1	RUBBER BASE	JOHNSONITE	BASEWORKS THERMOSET RUBBER	63 BURNT UMBER	4" HIGH			
					,			
HPC-1	HIGH PERFORMANCE COATING	SHERWIN WILLIAMS		SW7007 CEILING BRIGHT WHITE		STRUCTURAL ELEMENTS	GARY SULLIVAN	205.705.0313
P-1	PAINT	SHERWIN WILLIAMS		SW7007 CEILING BRIGHT WHITE		FLAT FINISH, CEILINGS AND SOFFITS	GARY SULLIVAN	205.705.0313
P-2	PAINT	SHERWIN WILLIAMS		SW7069 IRON ORE		SEMI-GLOSS FINISH, DOOR FRAMES	GARY SULLIVAN	205.705.0313
P-3	PAINT	SHERWIN WILLIAMS		SW7014 EIDER WHITE		EGGSHELL FINISH, RESTROOM AND LOCKER ROOM	GARY SULLIVAN	205.705.0313
P-4	PAINT	SHERWIN WILLIAMS		SW7015 REPOSE GRAY		EGGSHELL FINISH, TYPICAL WALL	GARY SULLIVAN	205.705.0313
P-5	PAINT	SHERWIN WILLIAMS		SW7017 DORIAN GRAY		EGGSHELL FINISH, FITNESS ROOMS	GARY SULLIVAN	205.705.0313
P-6	PAINT	SHERWIN WILLIAMS		SW9136 LULLABY		EGGSHELL FINISH	GARY SULLIVAN	205.705.0313
P-7	PAINT	SHERWIN WILLIAMS		SW9138 STARDEW		EGGSHELL FINISH	GARY SULLIVAN	205.705.0313
P-8	PAINT	SHERWIN WILLIAMS		SW9141 WATERLOO		EGGSHELL FINISH	GARY SULLIVAN	205.705.0313
PWP-1	PLASTIC WALL PANEL	CONSTRUCTION SPECIALTIES: ACROVYN	4000 SUEDE TEXTURE	OZARK #314	SEE ELEVS: 48" HEIGHT TYP, UNO	ALTERNATE #2	CATCH COLLIVATIV	200.7 00.00 10
PWT-1	PORCELAIN WALL TILE	CONCEPT SURFACES	NIMBUS	STUDIO BIANCO PSURO1	10" x 30"	STANDARD TILE	DON TEIJELO	504.258.9944
PWT-2	PORCELAIN WALL TILE	CONCEPT SURFACES	NIMBUS	STUDIO BLU PSUMO3	MOSAIC	ACCENT TILE	DON TEIJELO	504.258.9944
1 1 1 1 - 2	PONCELAIN WALL TILL	CONCEPT SON ACES	NIIVIBOS	310DIO BEO 1 30IVIO3	MOSAIC	ACCENT TIEL	DON TEISEES	304.230.9944
A1	ACOUSTICAL LAY-IN CEILING	ARMSTRONG	DUNE	WHITE	24" x 24"	ANGLED TEGULAR EDGE TILE IN 15/16" GRID	RICH LAWS	205.410.2765
A2	ACOUSTICAL LAY-IN CEILING (VINYL FACED)	ARMSTRONG	CERAMAGUARD	WHITE	24" x 24"	SQUARE EDGE TILE IN 15/16" GRID	RICH LAWS	205.410.2765
B1	GYPSUM BOARD	SEE SPECIFICATIONS	OEI V WIN (OO) (I (D	PAINTED P-1	27 727	OQUITE EDGE TIEE II VIOI TO CITIE	THEFT EX WO	200.410.2700
B2	MOISTURE RESISTANT GYP BOARD	SEE SPECIFICATIONS		PAINTED P-1				
X1	EXPOSED CEILING: UNPAINTED	CLE SI ESII IO/MISMS		1741112511				
X1 X2	EXPOSED CEILING: PAINTED							
/\Z	EXI GOLD GLILING. 17 MINTED		<u>l</u>	<u> </u>				
AWP-1	ACOUSTICAL WALL PANEL	TECTUM INC.	TECTUM DIRECT-ATTACH WALLS	P-6	23 3/4" x 96"	ALTERNATE #1		
AWP-2	ACOUSTICAL WALL PANEL	TECTUM INC.	TECTUM DIRECT-ATTACH WALLS	P-7	23 3/4" x 96"	ALTERNATE #1	+	
AWP-3	ACOUSTICAL WALL PANEL ACOUSTICAL WALL PANEL	TECTUM INC.	TECTUM DIRECT-ATTACH WALLS	P-8	23 3/4" x 96"	ALTERNATE #1		
PC	PLASTIC CUBBIES	SCRANTON PRODUCTS	TUFFTEC	GREY	23 3/4 \ \ 30	ORANGE PEEL TEXTURE		
PL	PLASTIC COBBIES PLASTIC LOCKERS	SCRANTON PRODUCTS SCRANTON PRODUCTS	TUFFTEC	GREY		ORANGE PEEL TEXTURE ORANGE PEEL TEXTURE	+	
SH	ROLLER SHADE - MOTORIZED	DRAPER	MOTORIZED FLEXSHADE	TBD		COLOR TBD PER MANUFACTURER STANDARDS	+	
SPTP	SOLID PLASTIC TOILET PARTITION	SCRANTON PRODUCTS	HINY HIDERS - HDPE	STAINLESS		HAMMERED TEXTURE	+	
SPUS	SOLID PLASTIC TOILET PARTITION SOLID PLASTIC URINAL SCREEN	SCRANTON PRODUCTS SCRANTON PRODUCTS	HINY HIDERS - HDPE	STAINLESS		HAMMERED TEXTURE	+	
SSC	STAINED AND SEALED CONCRETE	SEE SPECIFICATIONS	THINT THOLIS - HOFE	SEE SPECIFICATIONS		HAWIWILINED TEXTOINE	+	
330	STAINED AND SEALED CONCRETE	JLL SELCIFICATIONS		JLE SELCIFICATIONS				
DI 1	PLASTIC LAMINATE	FORMICA	T	COGNAC MAPLE 7738-58		MATTE FINISH	NAN JONES	205.305.2916
PL-1		FORMICA		LAYERED SAND			NAN JONES NAN JONES	
PL-2 QS-1	PLASTIC LAMINATE QUARTZ SURFACING	CAMBRIA		ELLA		SCOVATO POLISHED FINISH	KIT WEBB	205.305.2916
() —	COLADIA SUBTALINE	LAMONIA	1	ı ELLA		FULIOI IEU FIINION		





ORANGE BEACH RECREATION **COMPLEX NEW ADULT FITNESS CENTER**



CITY OF ORANGE BEACH; ORANGE BEACH, AL

OWNER
CITY OF ORANGE BEACH
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120 23RD STREET SOUTH
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CIVIL ENGINEER

STRUCTURAL ENGINEER MBA ENGINEERS 300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER

GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: CHRIS DEARMON / VAN SIMPSON

MECHANICAL / PLUMBING ENGINEER

FIRE PROTECTION ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646

ATTN: TOM WADE / BRIAN DOVE ELECTRICAL ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD,

MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

2-14-2020 100% BID DOCUMENTS

GENERAL NOTES

- CONTRACTOR SHALL COORDINATE BETWEEN ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DRAWINGS:
- A. ANY DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS OF DIFFERENT DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH SHOP DRAWING PREPARATION OR ANY CONSTRUCTION UNTIL THE ARCHITECT HAS GIVEN DIRECTION OF RESOLUTION FOR THE DISCREPANCY OR CONFLICT.
- B. NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE AND VERIFY THE LOCATIONS AND SIZES OF CHASES,
- OPENINGS, SLEEVES, FINISHES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS AT FLOORS,
- WALLS, AND ROOFS BETWEEN DRAWINGS OF DIFFERENT DISCIPLINES. IN THE CASE OF INCONSISTENCIES BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, A BIDDER WILL BE DEEMED TO HAVE INCLUDED IN ITS BID THE BETTER QUALITY OR GREATER
- QUANTITY OF THE WORK INVOLVED UNLESS THE BIDDER ASKED FOR AND OBTAINED THE ARCHITECT'S WRITTEN CLARIFICATION OF THE REQUIREMENTS BEFORE SUBMISSION OF BID. ALL DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS.
- DO NOT SCALE THE DRAWINGS. THE DETAILS PROVIDED ON SHEETS LABELED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS, UNLESS NOTED
- ALL OF THE CONTRACTOR'S PROPOSED SUBSTITUTIONS ARE CONSIDERED CHANGE ORDERS AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND/OR APPROVAL PRIOR TO ANY PERTINENT
- WORK OR FABRICATION CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE
- STRUCTURAL INTEGRITY OF ALL CONSTRUCTION, NEW AND EXISTING, AT ALL STAGES INCLUDING, BUT NOT LIMITED TO. THE FOLLOWING: A. BRACE ALL BASEMENT-TYPE WALLS RETAINING EARTH UNTIL RESTRAINING SLABS/FLOORS HAVE
- BEEN INSTALLED AND SLABS HAVE REACHED REQUIRED DESIGN STRENGTH. B. BRACE/SHORE ALL WALLS AS REQUIRED TO MAINTAIN STABILITY DURING CONSTRUCTION.

C. SHORE EXISTING FLOORS, WALLS, AND/OR ROOFS AS REQUIRED DURING DEMOLITION OF ANY

PORTION OF EXISTING STRUCTURE UNTIL NEW SUPPORT FRAMING HAS BEEN INSTALLED.

- ALL STRUCTURAL MEMBERS, AS SHOWN, HAVE BEEN DESIGNED TO CARRY IN PLACE DESIGN LOADS ONLY THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ANY LOADS AND FORCES IMPOSED DURING CONSTRUCTION, TRANSPORTATION, ERECTION, AND HANDLING. THE CONTRACTOR SHALL INSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT IMPOSED ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT CONCRETE REACHES THE FULL SPECIFIED DESIGN STRENGTH, STEEL MEMBERS AND THEIR CONNECTIONS ARE FULLY BOLTED AND / OR WELDED AND ALL OTHER FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO ANY PERTINENT WORK OR FABRICATION. ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE NOTED ON THE SHOP
- ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.

SHOP DRAWINGS/SUBMITTALS

- SHOP DRAWING SUBMITTAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PROJECT CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND SHALL FOLLOW INDUSTRY GUIDELINES AND STANDARDS ALL QUESTIONS, CLARIFICATIONS, OR MODIFICATIONS OF THE CONTRACT DOCUMENTS SHALL BE CLEARLY DOCUMENTED AND INDICATED ON THE SHOP DRAWING TRANSMITTAL OR COVER SHEET. ITEMS SHALL NOT BE CONSIDERED APPROVED UNLESS SPECIFICALLY ADDRESSED BY MBA IN THE REVIEW COMMENTS. ALL SHOP DRAWINGS ARE TO BE NEWLY PREPARED. REPRODUCTIONS OF CONTRACT STRUCTURAL DRAWINGS FOR USE AS ERECTION DRAWINGS WILL NOT BE PERMITTED. SHOULD SHOP DRAWING SUBMITTALS CONTAIN ANY REPRODUCTIONS OF CONTRACT STRUCTURAL DRAWINGS, THEY WILL BE REJECTED AND RETURNED
- WITHOUT ENGINEER REVIEW. A. MBA MAY CONSIDER TRANSFERRING COMPUTER FILES. IN THE FORMAT CREATED. OF THE PLAN SHEETS TO PROJECT SUBCONTRACTORS TO ASSIST IN DEVELOPING SHOP DRAWINGS ON A CASE BY
- BASIS. A SIGNED FILE TRANSFER AGREEMENT WILL BE REQUIRE PRIOR TO RELEASE OF MBA FILES. CONTRACTOR TO REVIEW ALL SHOP DRAWING SUBMITTALS AND STAMP WITH APPROVAL PRIOR TO SUBMISSION TO ARCHITECT/ ENGINEER. SHOP DRAWINGS RECEIVED BY ARCHITECT/ENGINEER THAT HAVE NOT BEEN REVIEWED AND COORDINATED BY THE CONTRACTOR WILL BE RETURNED WITHOUT ARCHITECT/ENGINEER'S REVIEW. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRECTING DIMENSIONS WHICH PERTAIN TO FABRICATION PROCESSES OR CONSTRUCTION TECHNIQUES PRIOR TO SUBMITTAL AND FOR COORDINATION OF WORK OF ALL TRADES.
- CONTRACTOR MAY PROVIDE REVIEWED AND APPROVED SUBMITTALS IN AN ELECTRONIC .PDF FORMAT FOR ENGINEER REVIEW AND APPROVAL. IN LIEU OF ELECTRONIC SUBMITTALS, CONTRACTOR MAY PROVIDE NO MORE THAN FOUR PAPER COPIES OF EACH STRUCTURAL SHOP DRAWING SUBMITTAL TO THE ENGINEER. THE STRUCTURAL ENGINEER WILL REVIEW AND RETURN TWO OF THE COPIES TO THE ARCHITECT. ADDITIONAL COPIES REQUIRED BY THE CONTRACTOR SHALL BE MADE BY THE CONTRACTOR AFTER THE REVIEW PROCESS.
- MBA REVIEW OF SHOP DRAWING SUBMITTALS IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. REVIEW AND/OR APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FOR ERRORS/ OMISSIONS IN THE
- CONTRACTOR MAY PROVIDE REVIEWED AND APPROVED SUBMITTALS IN AN ELECTRONIC .PDF FORMAT FOR ENGINEER REVIEW AND APPROVAL IN LIEU OF ELECTRONIC SUBMITTALS, CONTRACTOR MAY PROVIDE NO MORE THAN FOUR PAPER COPIES OF EACH STRUCTURAL SHOP DRAWING SUBMITTAL TO THE ENGINEER. THE STRUCTURAL ENGINEER WILL REVIEW AND RETURN TWO OF THE COPIES TO THE ARCHITECT. ADDITIONAL COPIES REQUIRED BY THE CONTRACTOR SHALL BE MADE BY THE CONTRACTOR AFTER THE REVIEW PROCESS

SITE AND FOUNDATION

- THE DESIGN OF FOUNDATIONS AND RELATED COMPONENTS IS BASED ON THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY GEOCON, PROJECT NO. DL 2024-20, DATED 01/15/2020. THE GENERAL CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS AND RECOMMENDATIONS IN THE
- ALLOWABLE SOIL BEARING PRESSURE: 1500 PSF EXCAVATE, WHERE REQUIRED, TO BUILDING AND STRUCTURE SUBGRADE.

REMAINING STONE.

- PROOF-ROLL THE AREA UNDER THE BUILDING, PLUS 5'-0" ON ALL SIDES, WITH A STATIC SMOOTH DRUM ROLLER TO LOCATE ANY SOFT AREAS. A GEOTECHNICAL ENGINEER IS TO BE PRESENT DURING THIS OPERATION. ANY SOFT AREAS DETECTED ARE TO BE UNDERCUT AND REPLACED WITH ENGINEERED FILL.
- ACCEPTABLE FILL MATERIAL SHALL BE FREE OF ORGANICS. AND HAVE A P.I. OF 0, L.L. OF LESS THAN 20 AND A MAXIMUM DRY DENSITY OF GREATER THAN 100 PCF. CRUSHED STONE BACKFILL TO MEET REQUIREMENTS OF A.H.D. No. 57 STONE. DRAINAGE FILL SUPPORTING SLABS SHALL MEET THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.
- FILL, WHERE REQUIRED, IS TO BE PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 98% STANDARD PROCTOR (ASTM D-698), WITHIN ±3% OF OPTIMUM MOISTURE CONTENT.
- THE GEOTECHNICAL ENGINEER SHALL REVIEW THE FINAL FOUNDATION DESIGN TO VERIFY THAT ALL FOUNDATION SYSTEMS, INCLUDING SLAB ON GRADE DESIGN AND DETAILING, COMPLIES WITH THE
- GEOTECHNICAL PARAMETERS INCLUDED IN THE GEOTECHNICAL REPORT. WRITTEN VERIFICATION OF THIS REVIEW SHALL BE SUBMITTED TO THE ARCHITECT TWO WEEKS BEFORE FINAL PRICING/BID DATE. FOUNDATION FOOTINGS TO BEAR OVER 18 INCHES OF OPEN GRADED CRUSHED AGGREGATE (NO. 57 STONE). INITIAL 6 INCHES SHOULD BE "CHOKED" INTO SUBGRADE. 6 INCH LIFTS TO BE USED IN PLACING

CONCRETE

- 1. CONCRETE CONSTRUCTION AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH CURRENT ACI STANDARDS
- 2. CONCRETE SCHEDULES
 - 28 DAY COMPRESSIVE STRENGTH A. CONCRETE SLAB ON COMPOSITE METAL DECK 4000 PSI NORMAL WEIGHT B. CONCRETE IN CMU CELLS & CAVITIES 3000 PSI GROUT
- C. ALL OTHER CONCRETE 3000 PSI NORMAL WEIGHT 3. CONCRETE COVER OVER REINFORCING (UNO) A. UNFORMED SURFACE IN CONTACT WITH EARTH: 3 IN.
- C. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: #6 AND LARGER 2 IN. #5 AND SMALLER 1 1/2 IN.

B. UNFORMED SURFACE OVER VAPOR BARRIER: 2 IN.

- D. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: WALLS, SLABS: 3/4 IN.
- COLUMNS, BEAMS: 1 1/2 IN. TO TIES CONCRETE AT SLABS ON GRADE SHALL HAVE A NOMINAL MAXIMUM COARSE AGGREGATE SIZE OF 3/4 INCH. ADJUST PORTIONS OF COMBINED COARSE, INTERMEDIATE AND FINE AGGREGATES TO PROVIDE A COARSENESS
- FACTOR OF 60 TO 75%. 5. ALL REINFORCING SHALL CONFORM TO THE LATEST REVISION OF ASTM SPECIFICATION A615, GRADE 60 AND BE
- DETAILED IN ACCORDANCE WITH THE LATEST REVISION OF ACI STANDARD 315. 6. NO REINFORCING BAR SHALL BE WELDED IN ANY MANNER, UNLESS SPECIFICALLY SHOWN OR NOTED ON THE
- DRAWINGS. CONTINUOUS FOOTING REINFORCING BARS SHALL BE LAPPED 30 BAR DIAMETERS, BUT NOT LESS THAN 1'-0".
- COLUMN AND WALL VERTICAL REINFORCING BARS SHALL BE LAPPED WITH A CLASS "B" SPLICE. WALL HORIZONTAL REINFORCING BARS SHALL BE LAPPED 30 DIAMETERS AT SPLICE POINTS. PROVIDE CORNER BARS
- 9. PROVIDE FULL EMBEDMENT FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, DOWEL SIZE AND SPACING SHALL 10. CONSTRUCTION JOINTS IN CONCRETE BEAMS AND SLABS SHALL BE AT OR NEAR MIDSPAN. ALL CONSTRUCTION
- 11. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN WALLS AND BEAMS, UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.

12. CONDUIT, PIPES, AND SLEEVES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER, NOT HAVE AN

- OUTSIDE DIAMETER GREATER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, WALL OR BEAM IN WHICH THEY ARE EMBEDDED, AND SHALL HAVE A MINIMUM COVER OF 1 1/2 INCH FOR CONCRETE EXPOSED TO EARTH OR WEATHER AND 3/4 INCH FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER.
- 13. PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
- 14. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, SHOP DRAWINGS FOR ALL REINFORCING BARS INCLUDING DETAILS AT ALL OPENINGS AND ASSOCIATED ADDED REINFORCEMENT AS SHOWN ON TYPICAL DETAILS.

TENSION LAP SPLICE LENGTH

									_							
		f"c = 30	000 PSI			f"c = 40	000 PSI			f"c = 50	000 PSI			f"c = 60	000 PSI	
	TOP	BARS	_	IERS .RS	TOP	BARS		ERS RS	ТОР	BARS		ERS RS	ТОР	BARS	_	IERS .RS
BAR SIZE	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В
#3	22	28	17	22	19	24	15	19	17	22	13	17	15	20	12	15
#4	29	37	22	29	25	32	19	25	22	29	17	22	20	26	16	22
#5	36	47	28	36	31	40	24	31	28	36	22	28	25	33	20	25
#6	43	56	33	43	37	48	29	37	33	43	26	33	31	40	24	31
#7	63	81	48	63	54	70	42	54	49	63	37	49	44	58	34	44
#8	72	93	55	72	62	80	48	62	55	72	43	55	51	66	39	51
#9	81	105	62	81	70	91	54	70	63	81	48	63	57	75	44	57
#10	91	118	70	91	79	102	61	79	70	91	54	70	64	83	49	64
#11	101	131	78	101	87	113	67	87	78	101	60	78	71	93	55	71

CONCRETE MASONRY

- 1. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1 SPECIFICATION OR TMS 402/602.
- 2. MASONRY COMPRESSIVE STRENGTH (f'm) SHALL BE 2000 PSI BASED ON THE UNIT STRENGTH METHOD OR VERIFIED BY PRISM TESTS IN ACCORDANCE WITH ASTM C 1314.
- MORTAR SHALL BE TYPE S OR M. 4. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

48 BAR DIAMETERS.

- 5. NO REINFORCING BAR SHALL BE WELDED IN ANY MANNER, UNLESS SPECIFICALLY SHOWN OR NOTED ON
- 6. BLOCK FILL SHALL BE GROUT WITH AN 8" TO 11" SLUMP, PROPORTIONED PER ASTM C 476 OR ATTAINING
- 3000 PSI AT 28 DAYS PER ASTM C 1019. DO NOT USE MORTAR AS BLOCK FILL. ALL GROUT SHALL BE CONSOLIDATED AT TIME OF PLACEMENT USING A LOW-VELOCITY MECHANICAL
- VIBRATOR WITH A 3/4-INCH HEAD. RE-CONSOLIDATE GROUT AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. DO NOT PLACE NEXT LIFT OF GROUT UNTIL LOWER LIFT HAS BEEN RE-CONSOLIDATED.
- 8. ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE GROUTED SOLID. ALL LINTELS & BOND BEAMS SHALL BE GROUTED SOLID.
- 9. ALL BLOCK CELLS WHICH HAVE VERTICAL REINFORCING SHALL BE GROUTED FULL-HEIGHT IN 5'-0" LIFTS (MAXIMUM HEIGHT). PROVIDE 1 1/2" (MINIMUM) GROUT KEY BELOW MORTAR JOINT AT TOP OF EACH LIFT 10. VERTICAL REINFORCING SHALL BE DOWELED TO FOOTING WITH HOOKED BARS AT THE BASE AND EXTEND FULL-HEIGHT INTO BOND BEAM AT THE TOP. WHERE SPLICES ARE NECESSARY, PROVIDE LAP LENGTH =
- 11. VERTICAL REINFORCING SHALL BE LOCATED IN THE CENTER OF THE BLOCK CELLS, UNLESS NOTED, AND SHALL BE HELD IN PLACE WITH BAR POSITIONERS (HECKMANN #376 OR HOHMANN & BARNARD #RB) PRIOR TO GROUTING. "WET-STICKING" OF REINFORCING SHALL NOT BE ALLOWED
- 12. MINIMUM VERTICAL WALL REINFORCING IN ALL WALLS SHALL CONSIST OF 1#5 VERTICAL IN EACH CORNER, AT EACH DOOR & WINDOW JAMB & AT EACH SIDE OF CONTROL AND/OR EXPANSION JOINTS. PROVIDE
- ADDITIONAL VERTICAL REINFORCING AS SHOWN IN SECTIONS AND AS NOTED ON PLANS. 13. AT CORNERS AND INTERSECTIONS OF BOND BEAMS IN WALLS, PROVIDE CORNER BARS (48 DIAMETERS LONG EA. LEG) TO TIE WALLS TOGETHER. BAR DIAMETER SHALL MATCH BOND BEAM REINFORCING.
- 14. AT TOP OF ALL MASONRY WALLS (BEARING OR NON-BEARING), PROVIDE 8" DEEP CONTINUOUS BOND
- BEAM REINFORCED WITH 2#5 CONTINUOUS, UNLESS NOTED OTHERWISE. 15. WHERE CMU IS PLACED IN A STACK BOND PATTERN, HORIZONTAL WALL REINFORCING SHALL CONSIST OF A MINIMUM STANDARD (9 GAGE) LADDER-TYPE JOINT REINFORCING AT EVERY COURSE (8" O.C.) FOR 12" CMU OR AT EVERY OTHER COURSE (16" O.C.) FOR 8" CMU. COORDINATE W/ ARCHITECTURAL DRAWINGS. WHERE CMU IS PLACED IN A RUNNING BOND PATTERN, HORIZONTAL WALL REINFORCING SHALL CONSIST
- OF A MINIMUM STANDARD (9 GAGE) LADDER-TYPE REINFORCING AT EVERY OTHER COURSE (16" O.C.). 16. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DETAILS AND LOCATIONS OF MASONRY CONTROL JOINTS. IF NOT OTHERWISE SHOWN, DO NOT EXCEED 30'-0" BETWEEN BLOCK WALL CONTROL JOINTS
- AND 20'-0" BETWEEN BRICK VENEER CONTROL JOINTS. 17. ANCHOR WALLS TO SUPPORTING STRUCTURES AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING OF ALL MASONRY WALLS
- 18. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, SHOP DRAWINGS FOR ALL REINFORCING BARS INCLUDING DETAILS AT ALL OPENINGS AND ASSOCIATED ADDED REINFORCEMENT AS SHOWN ON TYPICAL

PRE-ENGINEERED METAL BUILDING

- 1. THE DESIGN, MANUFACTURE, QUALITY ASSURANCE AND ERECTION OF THE PRE-ENGINEERED METAL BUILDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MBMA METAL BUILDING SYSTEMS MANUAL. THE PRE-ENGINEERED METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF
- THE PRE-ENGINEERED METAL BUILDING. ALL DESIGN DRAWINGS FOR THE PRE-ENGINEERED METAL BUILDING SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF A. MBA ENGINEERS, INC. IS NOT RESPONSIBLE OR LIABLE FOR THE PRE-ENGINEERED METAL BUILDING
- THE FOUNDATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE BASED UPON PRELIMINARY AND/OR
- ASSUMED LOADING AND ARE SHOWN FOR BID PURPOSES ONLY. WHEN THE PRE-ENGINEERED METAL BUILDING MANUFACTURER HAS BEEN SELECTED, AND THE FINAL DESIGN FOR THE METAL BUILDING IS COMPLETED, THE PRE-ENGINEERED METAL BUILDING ENGINEER SHALL FURNISH FINAL BUILDING REACTIONS AND NECESSARY DETAILS TO FOUNDATION ENGINEER FOR REVIEW AND MODIFICATION OF THE FOUNDATION DESIGN, IF
- 4. THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL DESIGN AND FURNISH ALL ANCHOR BOLTS FOR THE METAL BUILDING COLUMNS. COORDINATE WITH THE STRUCTURAL DRAWINGS FOR CONCRETE STRENGTHS AND EMBEDMENT RESTRICTIONS
 - THE PRE-ENGINEERED METAL BUILDING AND COMPONENTS SHALL BE DESIGNED IN ACCORDANCE WITH THE GRAVITY AND LATERAL DESIGN LOAD REQUIREMENTS OF THE PROJECT BUILDING CODE. IN ADDITION, THE
 - FOLLOWING DESIGN REQUIREMENTS SHALL ALSO APPLY: A. DESIGN METAL BUILDING FRAME FOR 20 PSF ROOF LIVE LOAD (WITHOUT REDUCTION) AND 6 PSF COLLATERAL LOAD. DESIGN MEZZANINE FRAMING FOR 100 PSF LIVE LOAD.
 - B. LIMIT LATERAL DEFLECTION OF METAL BUILDING FRAME TO L/240. C. DESIGN FOR ALL ARCHITECTURAL DEAD LOADS. COORDINATE WITH ARCHITECTURAL DRAWINGS TO
 - D. DESIGN FOR ANY MECHANICAL UNITS OR FANS. COORDINATE WITH ARCHITECTURAL AND MECHANICAL

DESIGN CRITERIA

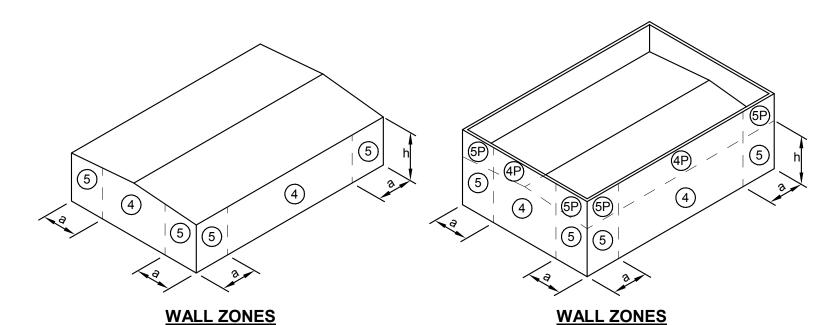
- GOVERNING CODE: A. INTERNATIONAL BUILDING CODE, I.B.C. 2018 GRAVITY DESIGN LOADS:
- A. DEAD: 1. DESIGN DEAD LOADS ARE BASED ON THE SELF WEIGHT OF CONSTRUCTION MATERIALS SHOWN IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. ANY ALTERNATE MATERIALS SHALL BE
- B. LIVE: ROOF.
- C. SNOW:
- 1. GROUND SNOW LOAD (Pg) = 0 PSF LATERAL DESIGN LOADS:
 - A. WIND: 1. DESIGNED PER ASCE 7-16
 - 2. BASIC WIND SPEED = 160 MPH 3. RISK CATEGORY = II
 - 4. BUILDING CATEGORY = ENCLOSED EXPOSURE CATEGORY = C 6. INTERNAL PRESSURE COEFFICIENT (GCpl) = ±0.18

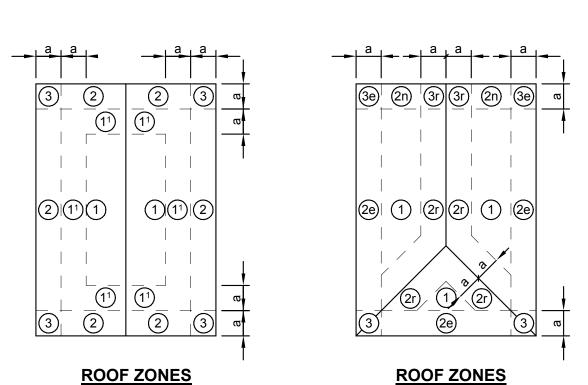
SUBMITTED TO THE STRUCTURAL ENGINEER TO REVIEW

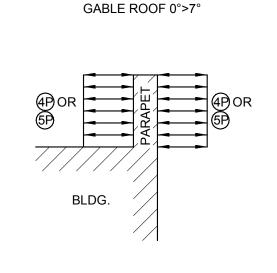
7. COMPONENTS & CLADDING WIND PRESSURES SEE CHART

1. THE OWNER SHALL EMPLOY A QUALIFIED TESTING AGENT/ENGINEER TO PROVIDE SPECIAL INSPECTIONS. SPECIAL INSPECTORS SHALL SUBMIT RESUME OF EXPERIENCE AND QUALIFICATIONS OF ALL INDIVIDUALS PERFORMING WORK TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD FOR APPROVAL PRIOR TO ANY WORK BEING PERFORMED. SPECIAL INSPECTIONS SHOULD BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2018 ED. AND AS INDICATED IN THE SPECIFICATIONS.

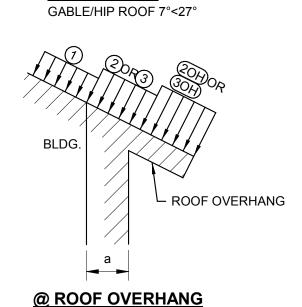
SPECIAL INSPECTIONS







@ PARAPET



ZONE LAYOUT DIAGRAMS

								ZONE	:							
EFFECTIVE	1		20	 e	2	.n	2	r	36	е	3	r	4	-	!	5
WIND AREA	+XXX	-XXX	+XXX	-XXX	+XXX	-XXX	+XXX	-XXX	+XXX	-XXX	+XXX	-XXX	+XXX	-XXX	+XXX	-X
10SF	38	-116	38	-116	38	-169	38	-169	38	-169	38	-201	63	-68	63	-8
20SF	35	-116	35	-116	35	-146	35	-146	35	-146	35	-172	60	-65	60	-
50SF	30	-71	30	-71	30	-116	30	-116	30	-116	30	-134	57	-62	57	-
100SF	26	-36	26	-36	26	-93	26	-93	26	-93	26	-106	54	-59	54	-
200SF	26	-36	26	-36	26	-93	26	-93	26	-93	26	-106	54	-59	54	-

NOTE: WIND LOADS SHOWN IN TABLE ARE ULTIMATE LOADS PER ASCE 7-10. FOR USE WITH ASCE 7-16 LOAD COMBINATIONS (MULTIPLY BY 0.6 FOR SERVICE LOADS)



ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH ORANGE BEACH, AL

CITY OF ORANGE BEACH PO BOX 458 ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222 ATTN: STED MCCOLLOUGH

ARCHITECT DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH BIRMINGHAM, AL 35233 205-322-7482 ATTN: JIM HARTSELL / JEFFREY MENASCO

CIVIL ENGINEER SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

STRUCTURAL ENGINEER MBA ENGINEERS 300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: CHRIS DEARMON / VAN SIMPSON

ELECTRICAL ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

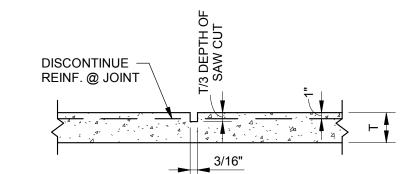
02-14-2020

100% BID DOCUMENTS

DAVIS ARCHITECTS

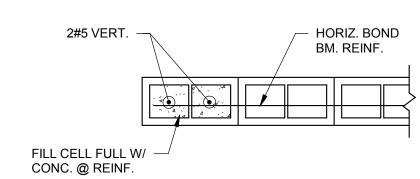
SHEET TITLE

GENERAL NOTES

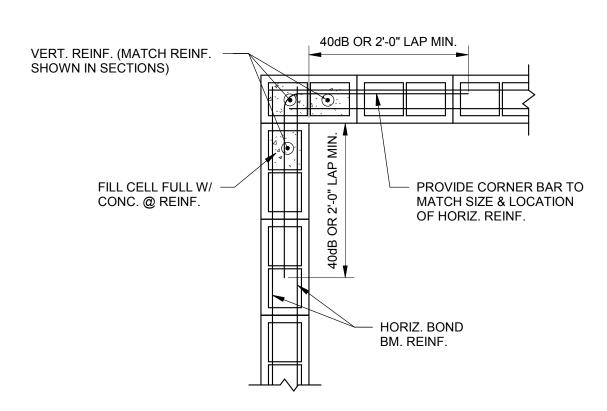


TYPICAL SAWED CONTROL JOINT

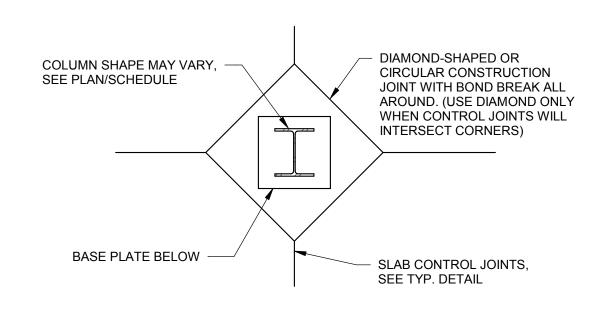
NOTES:
 USE SAWS, BLADES AND SKID PLATES BY SOFF-CUT INTERNATIONAL OR EQUAL.
 SEE PLAN FOR JOINT LAYOUT.
 START CUTTING SAWED JOINTS AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES. THIS WILL TYPICALLY BE FROM 1 HOUR IN HOT WEATHER TO 4 HOURS IN COLD WEATHER AFTER COMPLETING FINISHING OF SLAB IN THAT JOINT LOCATION.
 EXTEND SAWED JOINT TO THE SLAB BOUNDARIES AND ABUTMENTS, INCLUDING COLUMNS, DRAINS AND OTHER PENETRATIONS IN THE PATH OF A DEFINED JOINT. IMPLEMENT METHODS AND TIMING OF THE SAW CUT BEYOND THE LIMITS OF THE SOFF-CUT SAW REACH TO PROVIDE A CONSISTENT DEPTH OF CUT WITH MINIMAL RAVELING OF JOINT EDGES.
 T = SLAB THICKNESS (SEE PLAN)

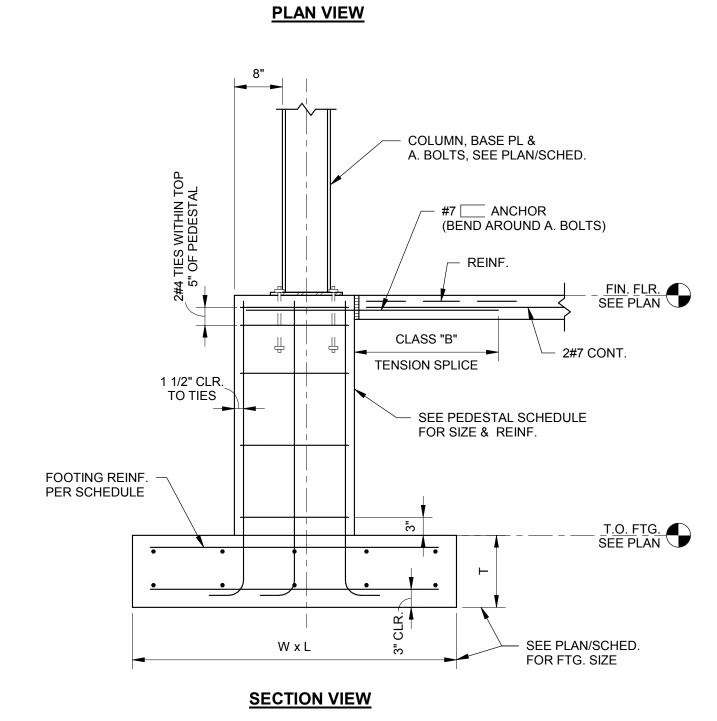


TYPICAL JAMB AND END OF MASONRY WALL REINF. DETAIL

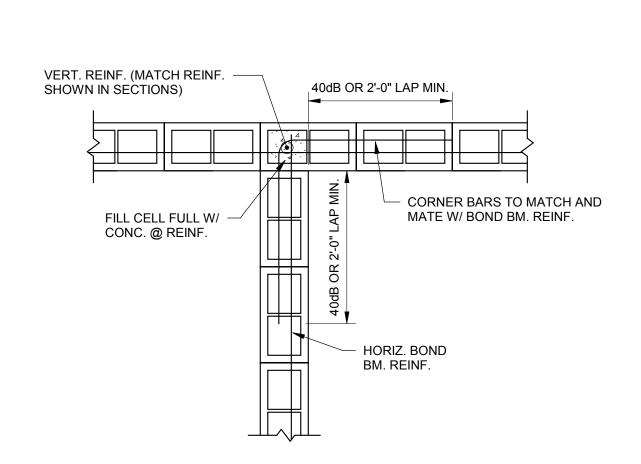


TYPICAL CORNER MASONRY
WALL REINF. DETAIL



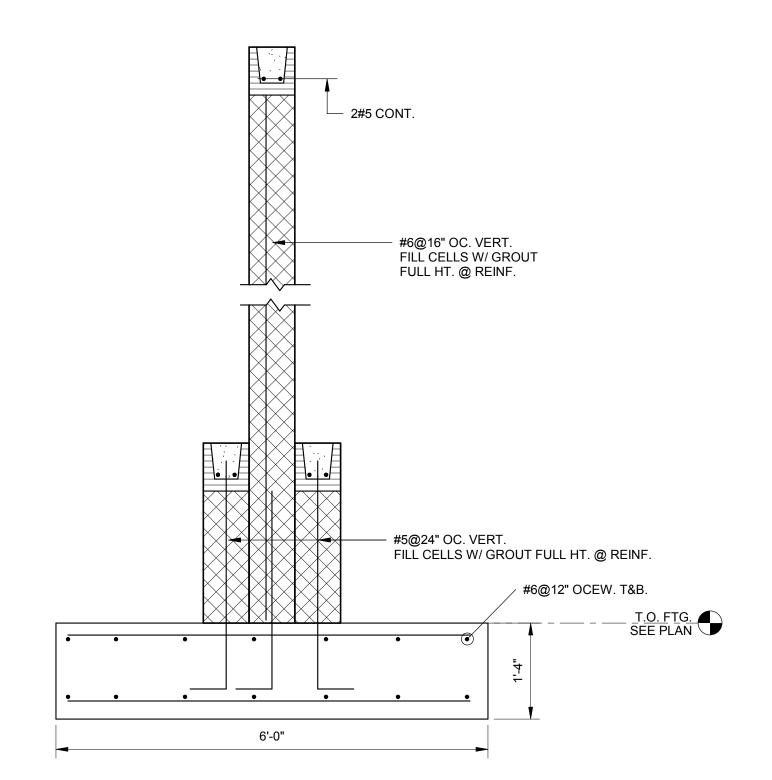


TYPICAL COLUMN FOOTING DETAILS

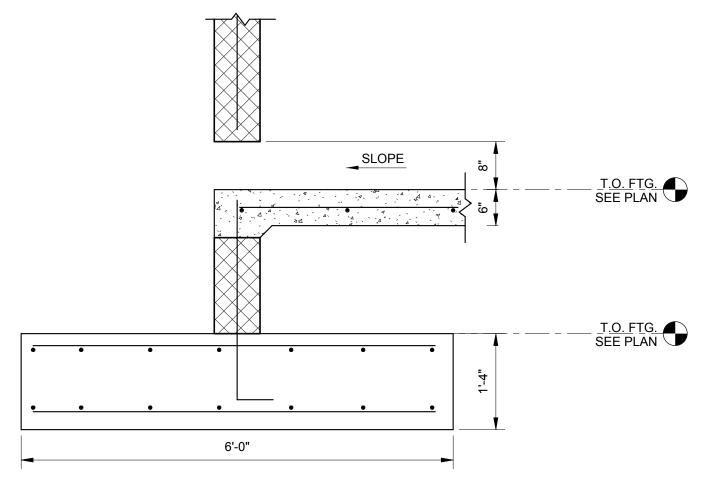


TYPICAL INTERSECTION

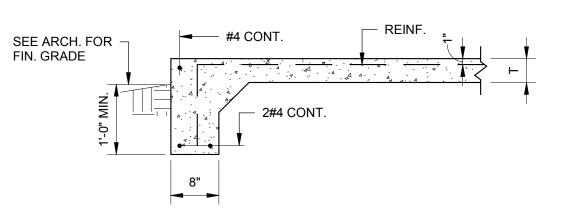
MASONRY WALL REINF. DETAIL



TYPICAL SIGN FOUNDATION DETAIL

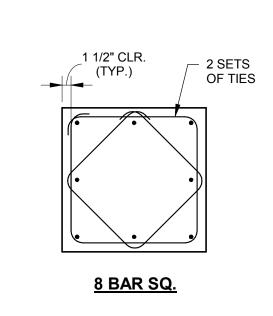


TYPICAL MECHANICAL PAD SCUPPER DETAIL

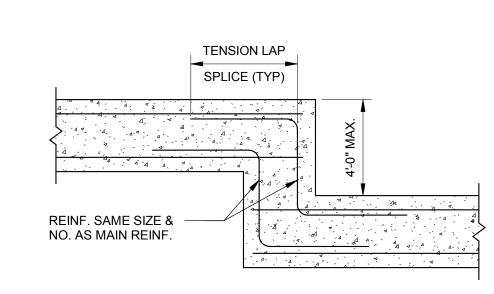


TYPICAL TURNDOWN SLAB DETAIL

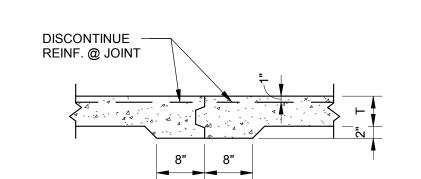
NOTE: T = SLAB THICKNESS (SEE PLAN)



TYPICAL PEDESTAL
TIE ARRANGEMENTS

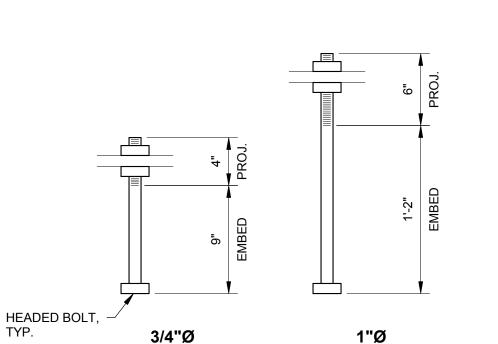


TYPICAL FOOTING STEP DETAIL



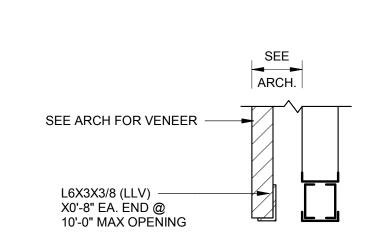
TYPICAL KEYED CONTROL JOINT

NOTES:
1. T=SLAB THINKNESS (SEE PLAN)
2. SEE PLAN FOR LOCATION OF JOINTS

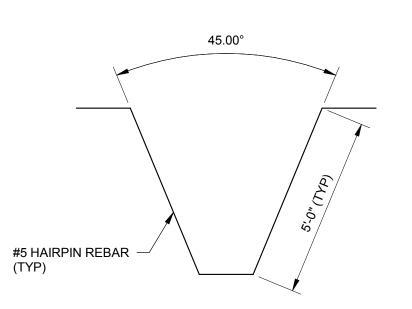


TYPICAL ANCHOR BOLT DETAILS

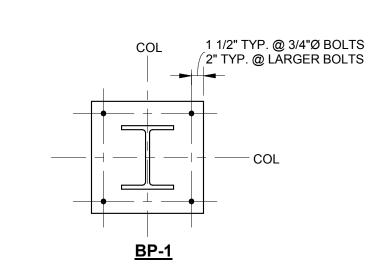
USE ASTM F1554 GRADE 55 WITH WELDABILITY
SUPPLEMENT S1 FOR ALL ANCHOR BOLTS UNO.



TYPICAL LOOSE LINTEL DETAIL



TYPICAL HAIRPIN DETAIL



TYPICAL BASE PLATE DETAIL



ORANGE BEACH RECREATION
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CITY OF ORANGE BEACH; ORANGE BEACH, AL

DAVIS

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ASSOCIATE ARCHITECT
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MOBILE, AL 36609

ATTN: JERRY ONWU / SID SNYDER

251-460-4646
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G
ELECTRICAL ENGINEER
GULF STATES ENGINEERING
600 AZALEA ROAD,

MOBILE, AL 36609 251-460-4646

02-14-2020 100% BID DOCUMENTS

DAVIS ARCHITECTS

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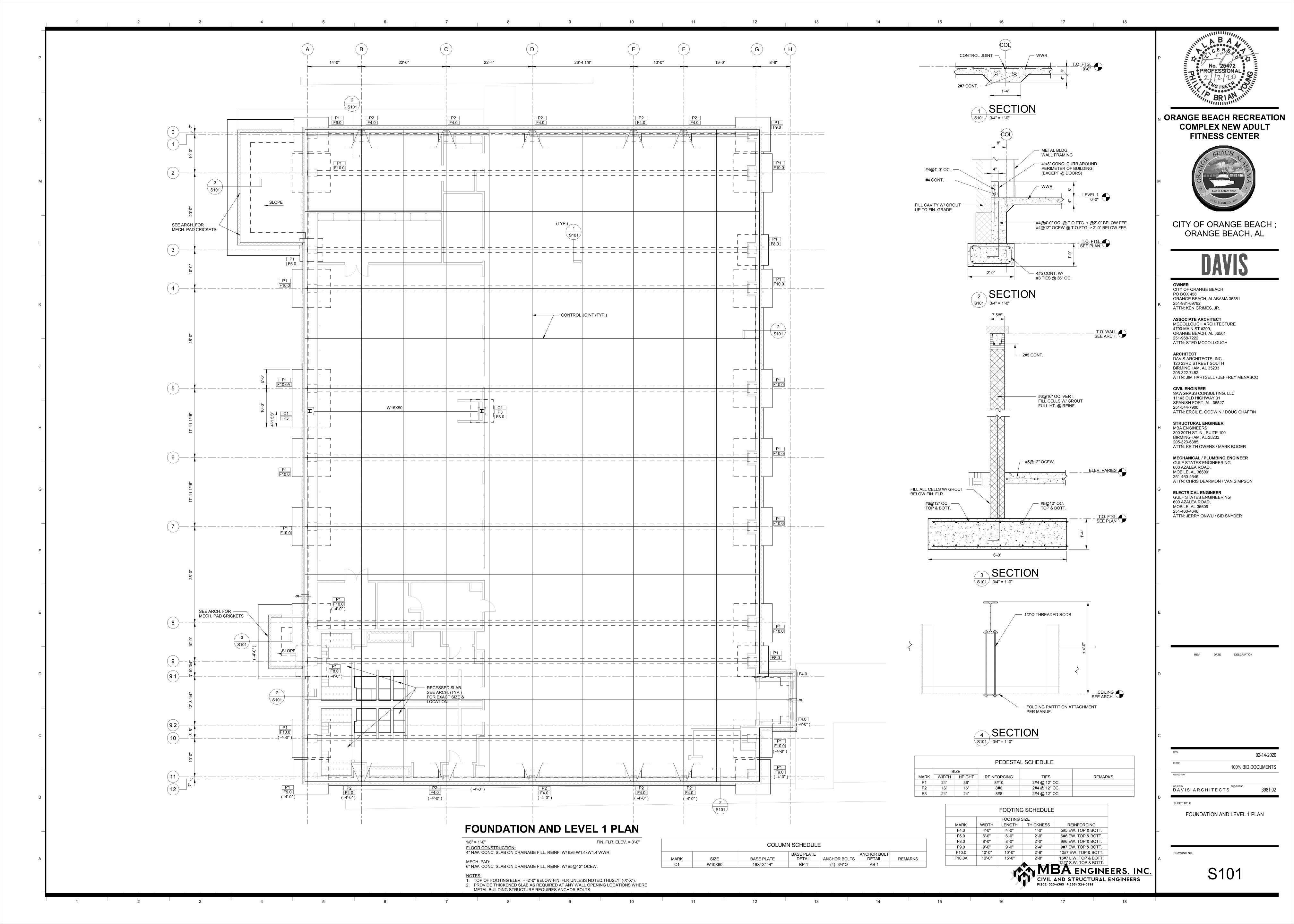
SHEET TITLE

TYPICAL DETAILS

AWING NO.

MBA ENGINEERS, INC.

S002



GENERAL HVAC NOTES

- 1. FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE HEATING, VENTILATING, AIR CONDITIONING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE 2015 INTERNATIONAL MECHANICAL CODE, SAFETY AND HEALTH CODES, NFPA CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
- IN ALL SYSTEMS OVER 2,000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 90A IN THE SUPPLY DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTER, TO AUTOMATICALLY STOP THE FAN. PROVIDE U.L. LISTED 125°F FIRESHOT IN RETURN AIR OF EACH SYSTEM UNDER 2.000 CFM TO SHUT DOWN FAN IN THE EVENT OF A FIRE.
- 3. THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISHED APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- 4. MECHANICAL PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
- 5. MECHANICAL CONTRACTOR TO PROVIDE GENERAL CONTRACTOR WITH AS-BUILT DRAWINGS, ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
- 6. FABRIC DUCTS USED TO CONVEY THE CONDITIONED AIR SUPPLY AND VENTILATION AIR SHALL BE; MADE OF STANDARD FABRIC MATERIAL, SUPPORTED BY CABLES FROM THE CEILING, SUPPORTED BY INTERNAL RINGS INSTALLED BY MANUFACTURER. DUCT TO USE LINEAR VENT HOLES TO DISPERSE AIR. SEE PLANS FOR LENGTHS OF FABRIC DUCT WITH NO AIR DISTRIBUTION.
- 7. DUCT LININGS (THERMAL AND ACOUSTICAL), VIBRATION ISOLATION CONNECTORS, FLEXIBLE DUCT CONNECTORS, AND DUCT TYPE SHALL BE APPROVED BY APPLICABLE CODE AND MECHANICAL ENGINEER.
- 8. PROVIDE ADEQUATE PRE-FILTERING (MIN EU3/MERV5) PRIOR TO THE FABRIC DUCT SYSTEM,
- 9. SOFT STARTER, VSD, VFD, RECOMMENDED WHEN POSSIBLE.

ACCORDING TO MANUF. SPECS.

- 10. ALL RETURN AND SUPPLY AIR DUCTWORK, THAT IS NOT LINED, SHALL BE EXTERNALLY INSULATED WITH 2" THICK, 1.5 LBS. DENSITY FOIL FACED FIBERGLASS INSULATION. DUCT DIMENSIONS SHOWN ARE INSIDE NET DIMENSIONS, ADD TO SHEET METAL SIZE FOR INSULATION. IN GENERAL, INSTALL DUCTWORK TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED OR REQUIRED BY FIELD CONDITIONS. COORDINATE EXACT MOUNTING HEIGHT IN FIELD WITH GENERAL CONTRACTOR. ROUND DUCTWORK IN CONDITIONED SPACE DOES NOT REQUIRE INSULATION UNLESS OTHERWISE
- 11. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT. WHICH HE INSTALLS. THIS INCLUDES ALL CONDENSERS, REFRIGERANT LINES, AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY THE MECHANICAL CONTRACTOR.
- 12. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS
- 13. ALL TEMPERATURE CONTROLS, FIRE ALARM COMPONENTS, EQUIPMENT NAMEPLATES, LABELS, OR COLOR CODED COMPONENTS SHALL BE MASKED DURING PAINTING TO PREVENT DAMAGE FROM OVER-SPRAY OR OBSCURING INFORMATION.
- 14. ALL LOW VOLTAGE WIRING REQUIRED FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE POWER REQUIREMENTS FOR HVAC EQUIPMENT WITH ELECTRICAL CONTRACTOR.
- 15. SEAL & TAPE ALL OPENINGS IN DUCTWORK AIRTIGHT AFTER TESTING.
- 16. CHECK & VERIFY ALL FIELD CONDITIONS & ACTUAL DIMENSIONS BEFORE PREPARING SHOP DRAWINGS BEFORE INSTALLATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
- 17. TEST & BALANCE ALL SUPPLY, RETURN & EXHAUST SYSTEMS ACCORDING TO CFM INDICATED ON PLANS. SUBMIT REPORT AS PER SPECIFICATIONS.
- 18. ALL APPLIANCE AND PLUMBING VENTS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION. OR THREE (3) FEET ABOVE THE OUTSIDE AIR INTAKES FOR HVAC AND MAKE-UP AIR
- 19. IN THE EVENT THAT CERTAIN WORK REQUIRES INCIDENTAL DAMAGE TO THE BUILDING, FINISHES OR PROPERTY TO COMPLETE THE WORK, THE CONTRACTOR FURNISH ALL REPAIR NECESSARY TO DELIVER TO THE AFFECTED AREA BACK TO OWNER THAT MEETS OR EXCEEDS THE CONDITION PRIOR TO DAMAGE.
- 20. VERIFY EXISTING CONDITIONS WHERE FANS ARE SCHEDULED FOR REPLACEMENT PRIOR TO EQUIPMENT ORDER.

HVAC SYMBOL LEGEND

- ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.
- SUPPLY AIR
- RETURN AIR
- ■■ MOTORIZED OUTDOOR AIR DAMPER THERMOSTAT
- WALL MOUNTED CO2 SENSOR
- DUCT TURNING UP/DOWN

	SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE																					
				TOTAL	O.A.		CLG	CAP.	HTG	CAP.		INDO	OR UNIT				OUTDOOR U	NIT (2-STA	GE HEA	T/COOL))	
MARK	NO.	AREA SERVED	TONS	CFM	(CFM)	EER	TOTAL MBH	SENS. MBH	CAPACITY MBH	AUX. HEAT KW	VOLT PHASE	HP #SPEEDS	E.S.P.	MCA	MOCP	VOLT PHASE	COMP. RL-LR	FAN FLA (AMPS)	MCA	MOCP	WEIGHT (LBS)	NOTES
AHU-1	HP-1	WEIGHT ROOM	15	6000	1500	11.6	180	133	178	20	208/3	3 HP	0.5	90	90	208/3/60	25-164	5	66	90	800	1-8
AHU-2	HP-2	WEIGHT ROOM	15	6000	1500	11.6	180	133	178	20	208/3	3 HP	0.5	90	90	208/3/60	25-164	5	66	90	800	1-8
AHU-3	HP-3	FITNESS 04	7.5	3000	1000	11.6	90	75	90	11	208/3	2 HP	0.8	48	50	208/3/60	13.1-83	3.1	33	45	500	1-8
AHU-4	HP-4	FITNESS 05	7.5	3000	1000	11.6	90	75	90	11	208/3	2 HP	0.8	48	50	208/3/60	13.1-83	3.1	33	45	500	1-8
AHU-5	HP-5	RESTROOM/BREAKRM	3.5	1350	100	11.6	42	35	40	6.0	208/1	0.5 HP	0.5	40	40	208/1/60	18.5-124	0.93	21	35	300	2-6
AHU-6	CU-6	AV DATA ROOM	1	350	0	10	12	10	NONE	NONE	208/1	0.5 HP	0.5	1	_	208/1/60	_	0.35	10	15	300	2-6

NOTES: BASIS OF DESIGN: UNITS 1-5 TRANE SPLIT SYSTEM. UNIT 6 MITSUBISHI MINI SPLIT WITH WALL MOUNTED AHU

- 1. FURNISH WITH 2-STAGE HEAT/COOL, DIGITAL, PROGRAMMABLE THERMOSTAT WITH REMOTE BULB LOCATED IN AHU RETURN.
- 2. FURNISH WITH DRAIN PAN FLOAT SWITCH FOR AHU SHUTDOWN.
- 3. FURNISH WITH LOW AMBIENT CONTROLS.
- 4. FURNISH WITH ANTI-SHORT CYCLE TIMER.
- 5. FURNISH WITH EVAPORATOR DEFROST CONTROL. 6. FURNISH AND INSTALL VIBRATION ISOLATOR FEET TO OUTDOOR UNITS.
- 7. FURNISH WITH CO2 SENSOR, INTERLOCK W/ MOTORIZED OUTDOOR AIR DAMPER
- 8. FURNISH SMOKE DETECTOR LOCATED IN RETURN DUCT

				VENTILATI	ON CALCULA	TION			
2001	APPROX ROOM	VENTILATION REQUIREMENTS	OCCUPANCY	VALUES "Pz"	VENTILATION RATES "Vbz"	EXHAUST AIR RATES	ADJUSTED	EXHAUST AIR RATE AS	
ROOM	SIZE (SF) "Az"	IMC 2015 TABLE 403.3	IMC 2015 TABLE 403.3	PEOPLE REQUIRED PER DESIGN	IMC 2015 TABLE 403.3	IMC 2015 TABLE 403.3	OUTSIDE AIR RATE (CFM)	DESIGNED (CFM)	REMARKS
WEIGHT ROOM	10000	10/1000 20 CFM/PERSON +0.06 CFM/SF	100	100	2600	_	3000	_	
FITNESS ROOM	2250	40/1000 20 CFM/PERSON +0.06 CFM/SF	90	90	1935	_	2000		
RESTROOM	_	70 CFM/FIXTURE	_	_	_	1000	_	1000	

	All	R TERMINAL	DEVICE SCHE	DULE		
MARK	DESRIPTION	MFGR	MODEL	MATERIAL	NECK	NOTES
CD	CEILING DIFFUSER	TITUS	250-AA	ALUM.	RECT	ALL
WRAG	WALL RETURN GRILLE	TITUS	300RL	SS	RECT	ALL
TG	TRANSFER GRILLE	TITUS	300RL	SS	RECT	ALL
LV	LOUVER	RUSKIN	ELF	ALUM	RECT	ALL

. BASIS OF DESIGN - MAY SUBMIT EQUAL 2. FINISH SHALL BE VERIFIED W/ARCHITECT

DISTRIBUTION DEVICE FIRST LETTER: C-CEILING, D-DOOR, F-FLOOR, W-WALL SECOND LETTER: D-DIFFUSER, G-GRILLE, L-LOUVER THIRD LETTER: TYPE CODE FOURTH CHARACTER: BLOW PATTERN (4-WAY)

			F	AN PERFC	RMANCE	DATA			
TAG	SERVICE	CFM	SONES	El	LECTRICAL DA	ТА	BASIS OF	DESIGN	NOTES
17 10	oei(Moe	0, 1,11	331123	POWER	E.S.P.	VOLTAGE	MFGR	MODEL	110120
EF-1,2	RESTROOMS	500	5	100W	0.25	120/1	GREENHECK	SQ-120-C	1-6
BAF-1,2,3	WEIGHT ROOM	_	5	500W	-	120/1	BIG ASS FAN	POWERFOIL 8	1–6
SF-1	AIRLOCK	50	5	100W	0.25	120/1	GREENHECK	SQ-70-G	1,2,4

2 3 4 5 6 7 8 9 10 11 12 13 15 16 17 18

EQUIPMENT NOTES: MFGR SPECIED IS "BASIS OF DESIGN" OR EQUAL. CONTRACTOR SHALL SUBMIT MFGR, MODEL AND PERFORMANCE DATA.

- . INTEGRAL DISCONNECT 2. VIBRATION ISOLATION KIT
- 3. INTEGRAL BACKDRAFT KIT 4. FAN SPEED CONTROL
- 5. ALUMINUM CEILING GRILL 6. INTERLOCK WITH RESTROOM LIGHTING

ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH: ORANGE BEACH, AL

CITY OF ORANGE BEACH ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222 ATTN: STED MCCOLLOUGH

ARCHITECT DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH BIRMINGHAM, AL 35233 205-322-7482 ATTN: JIM HARTSELL / JEFFREY MENASCO

CIVIL ENGINEER SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER MECHANICAL / PLUMBING ENGINEER **GULF STATES ENGINEERING**

STRUCTURAL ENGINEER

MBA ENGINEERS

ATTN: CHRIS DEARMON / VAN SIMPSON FIRE PROTECTION ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD. MOBILE, AL 36609

600 AZALEA ROAD. MOBILE, AL 36609

251-460-4646

251-460-4646

ELECTRICAL ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD. MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

ATTN: TOM WADE / BRIAN DOVE

REV DATE DESCRIPTION

02-14-2020 100% BID DOCUMENTS

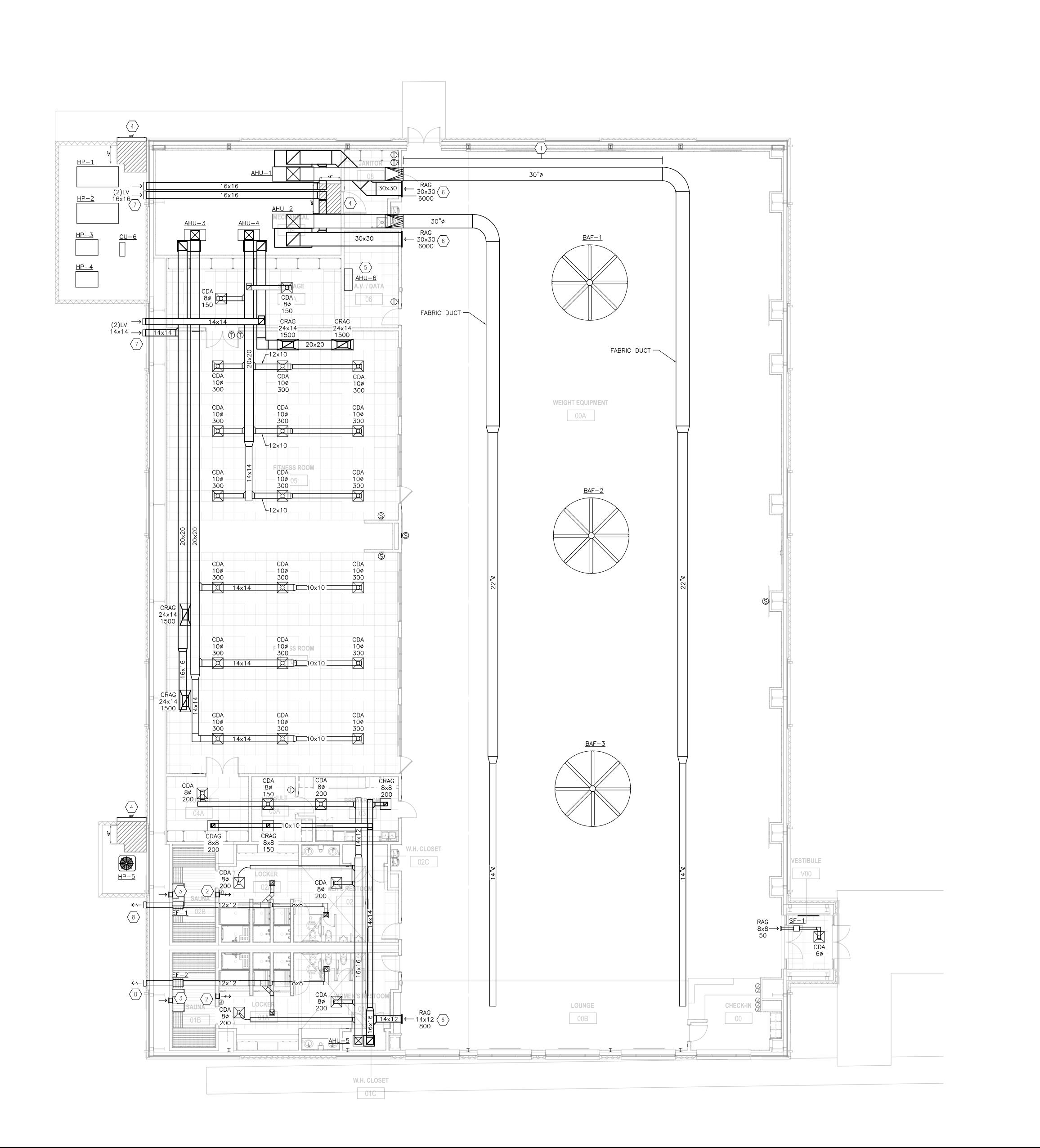
DAVIS ARCHITECTS

HVAC NOTES, SCHEDULES, LEGENDS

M100

M100 HVAC NOTES, SCHEDULES, DETAILS

SCALE: NONE



M101 HVAC PLAN

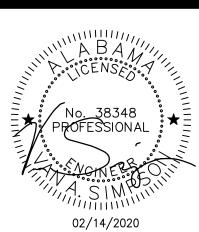
SCALE: 1/8" = 1'-0"

KEY NOTES

- $\fbox{1}$ THIS SECTION TO BE NON-POROUS FABRIC DUCT.
- PROVIDE ADJUSTABLE DAMPER GRILL FOR SAUNA EXHAUST, ADJUST AIRFLOW ACCORDING TO MANUFACTURERS RECOMMENDATIONS. CONTRACTOR TO COORDINATE COLOR WITH ARCHITECT.
- 3 INSTALL INTAKE VENT IN WALL IMMEDIATELY BEHIND HEATER AS LOW AS POSSIBLE TO FLOOR. CONTRACTOR TO COORDINATE COLOR WITH ARCHITECT.
- 4 HATCHED FLOOR AREA TO REMAIN CLEAR OF EQUIPMENT.
- 5 MOUNT AHU-6 AT 10'-0" ON WALL, COORDINATE LOCATION WITH ELECTRICAL EQUIPMENT. DO NOT INSTALL ABOVE ANY ELECTRICAL/AV EQUIPMENT.
- $\left\langle 6\right\rangle$ BOTTOM OF GRILLE TO BE AT 15'-0" AFF
- $\overline{7}$ BOTTOM OF LOUVER TO BE AT 12'-0" AFF
- $\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$

GENERAL NOTES

- 1. CONTRACTOR TO COORDINATE WITH OWNER ON FINAL LOCATION OF THERMOSTATIC CONTROLS.
- CONTRACTOR TO COORDINATE ALL EXPOSED DUCT COLOR WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 3. ALL EXTERIOR LOUVERS TO BE PRE—FINISHED AND PAINTED TO MATCH EXTERIOR ADJACENT COLOR, COORDINATE WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 4. ALL EXTERIOR WALL PENETRATIONS MUST BE PROPERLY SEALED AND APPROVED BY PRE-ENGINEERED BUILDING TO MAINTAIN BUILDING WARRANTY FOR WEATHER TIGHTNESS.
- 5. ALL INTERIOR LOUVER/GRILLES LOCATED IN VISIBLE SPACE MUST BE APPROVED BY ARCHITECT AND MECHANICAL ENGINEER.



ORANGE BEACH RECREATION
COMPLEX NEW ADULT
FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL



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MECHANICAL / PLUMBING ENGINEER
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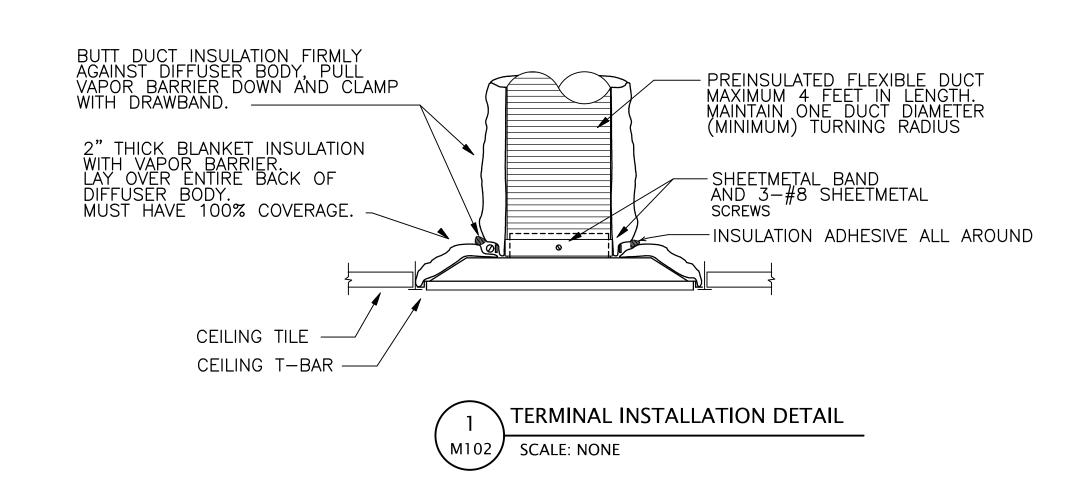
DAVIS ARCHITECTS

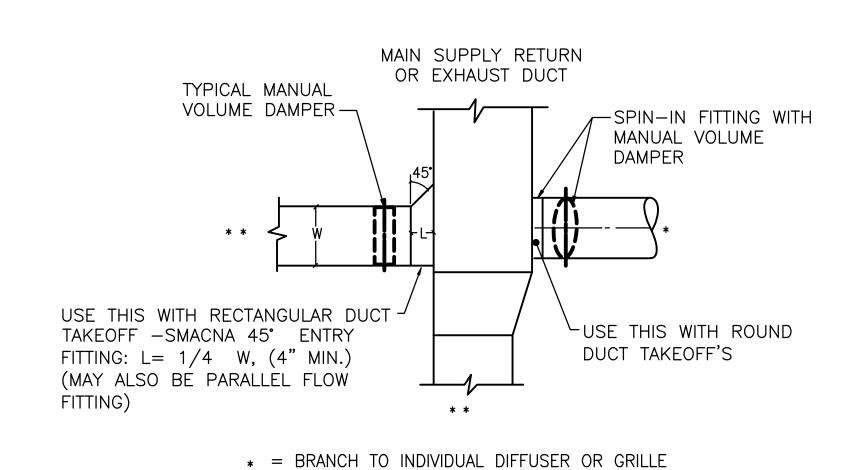
SHEET TITLE

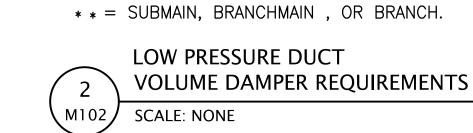
LEVEL 1 HVAC PLAN

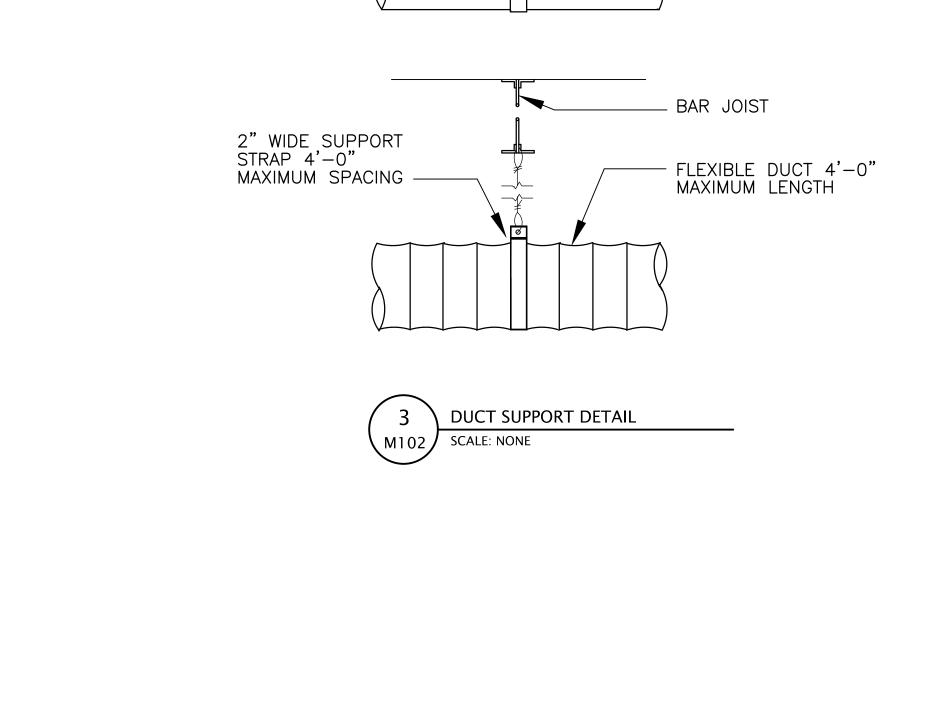
DRAWING NO.

M101

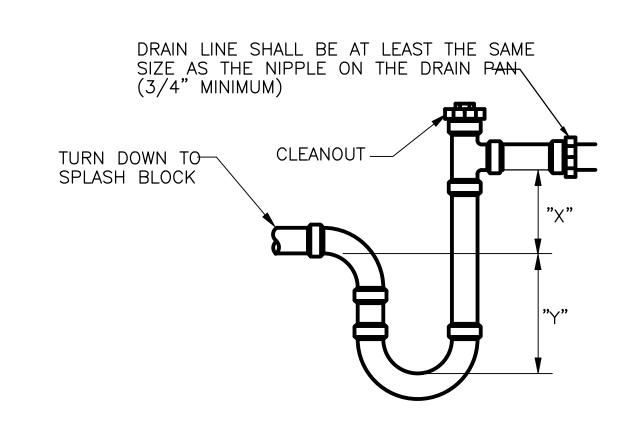








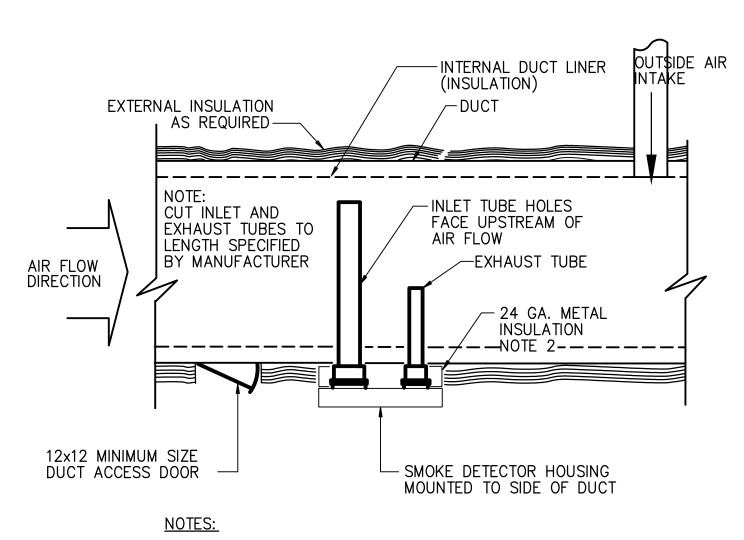
1" WIDE 18 GA.
SUPPORT STRAP
10'-0" MAXIMUM
SPACING. ———



LENGTHS "X" AND "Y" SHALL BE DETERMINED BY ROOFTOP UNIT EQUIPMENT BASED ON TOTAL STATIC PRESSURE

"X" AND "Y" SHALL BE EQUAL TO MINIMUM 1/2 TOTAL UNIT STATIC PRESSURE. ALL CONDENSATE PIPING SHALL BE SLOPED AT 1/4" PER FOOT



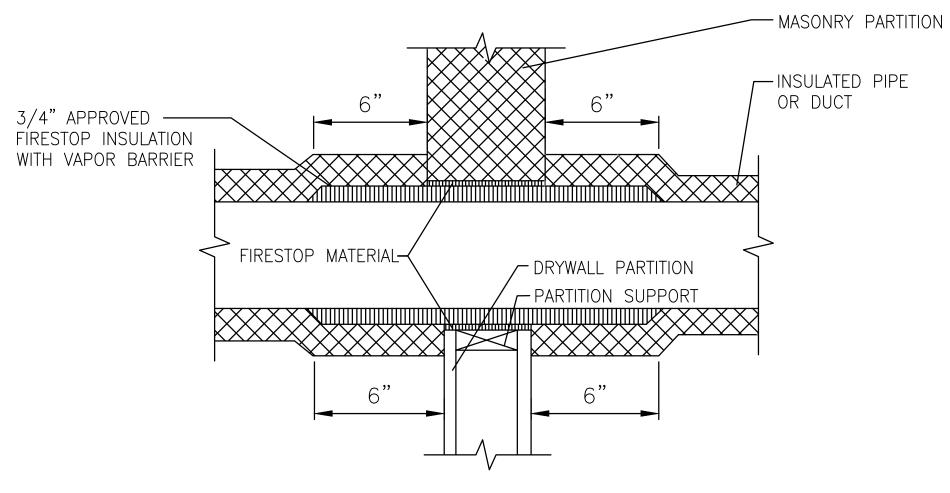


1. DETAIL SHOWS GENERAL INSTALLATION METHODS, REFER TO INDIVIDUAL MANUFACTURER FOR THEIR SPECIFIC INSTALLATION AND LOCATION INSTRUCTIONS.

2. STANDOFF BRACKET NOT REQUIRED ON NON-INSULATED DUCT.



3 4 5 6 7 8 9 10 11 12 13 14 16 17 18



PARTITION OR CHASE PENETRATION

1. APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES, IN ACCORDANCE WITH NFPA 101. REFER TO SPECIFICATIONS SECTION 07 84 00, FIRE STOPPING SYSTEMS.

NOTE:

2. ON AIR TIGHT ENCLOSURES PROVIDE LEXEL SILICONE CAULKING, OR EQUIVALENT, TO PROVIDE AIR TIGHT SEAL ON ALL PENETRATIONS.

- BAR JOIST

- ROUND DUCT





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REV DATE DESCRIPTION

02-14-2020 100% BID DOCUMENTS

HVAC DETAILS

DAVIS ARCHITECTS

M102

M102 HVAC DETAILS

SCALE: N.T.S.

GENERAL PLUMBING NOTES:

- FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE SANITARY, VENTING AND DOMESTIC WATER SYSTEM. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE 2015 IPC, NFPA AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
- THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISHED APPROVED CERTIFICATE OF FINAL INSPECTION. AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- 3. PLUMBING PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
- 4. LAY OUT PIPING BASICALLY AS SHOWN. MAJOR CHANGES IN LAYOUT MAY BE MADE ONLY WITH WRITTEN CONSENT OF ARCHITECT OR ENGINEER.
- 5. COLOR OF FIXTURES AND TRIM SHALL BE AS SELECTED BY OWNER/ARCHITECT.
- FIXTURES INDICATED AS BARRIER FREE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
- 7. PROVIDE WATER HAMMER ARRESTORS ON POTABLE WATER ROUGH-INS AS INDICATED ON DRAWINGS.
- 8. PROVIDE ELECTRICAL CONTRACTOR WITH EXACT WIRING REQUIREMENTS. IF ELECTRICAL REQUIREMENTS VARY FROM THOSE INDICATED ON PLANS, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSOCIATED ADDITIONAL
- 9. REFER TO SITE PLAN FOR ROUTING OF WATER AND SEWER.
- 10. ALL WATER LINES, BOTH HOT AND COLD, SHALL BE AS FOLLOWS:
- A. LINES BELOW GRADE SHALL BE TYPE "K" SOFT COPPER. B. LINES ABOVE GRADE SHALL BE SCH 80 PVC AND CPVC.
- C. FITTINGS SHALL BE OF HARD DRAWN COPPER OF ASTM SPEC B-88.
- D. ALL JOINTING SHALL BE WITH LEAD-FREE SILVER SOLDER. E. EQUIPPED WITH SHOCK ABSORBERS AS REQUIRED.
- 11. PLUMBING CONTRACTOR SHALL FURNISH & INSTALL SHUT-OFF VALVES TO ALL FIXTURES NOT OTHERWISE EQUIPPED.
- 12. ALL WASTE PIPING SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D-1785. PIPING SMALLER THAN 3" SHALL BE LAID OUT AT 1/4" PER FOOT GRADE. PIPING 3" AND LARGER SHALL BE LAID OUT AT 1/8" PER FOOT GRADE. ALL VENT PIPING WITHIN PLENUM OR AIR-HANDLING SPACES SHALL BE COPPER OR CAST IRON.
- 13. ALL WATER LINES, BOTH HOT AND COLD, SHALL BE CAPPED AND TESTED AT 100 PSI FOR 24 HOURS. ALL WASTE PIPING SHALL BE TESTED WITH A 10' WATER COLUMN FOR A 2 HR PERIOD WITH NO CHANGE IN LEVEL.
- 14. VENT PIPING SHALL BE LAID OUT SUCH THAT ALL ROOF PENETRATIONS SHALL BE ON BACK SIDE OF ROOF. PAINT
- 15. COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. ENSURE THAT WARRANTY REQUIREMENTS OF ROOFING MANUFACTURER ARE SATISFIED.
- 16. MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE MECHANICAL CONTRACTOR'S EXPENSE.
- 17. INSULATE HOT WATER MAINS AND RETURN ONLY.

EXPOSED VENT PIPING TO MATCH ROOF.

FIXTURE CONNECTION NOTES:

- 1. CONNECT TO PLUMBING FIXTURES AND EQUIPMENT PROVIDED UNDER THIS AND OTHER SECTIONS OF SPECIFICATION, ARCHITECTURAL DRAWINGS, AND MANUFACTURER'S SHOP DRAWINGS. PROVIDE ROUGH-IN CONNECTION AS SHOWN IN
- 2. USE FIXTURE SCHEDULE AND DETAILS ON DRAWINGS OR MANUFACTURER'S SHOP DRAWINGS FOR CONNECTION SIZES
- 3. PROVIDE SEPARATE P-TRAP FOR EACH FIXTURE, FLOOR DRAIN, AND PIECE OF EQUIPMENT.
- 4. PROVIDE CAST IRON P-TRAPS FOR UNDER FLOOR DRAINS.
- 5. MOUNT FIXTURES RIGID TO WALLS AS SHOWN ON DRAWINGS OR DETAILS.
- 6. PROVIDE OUTLET DEVICES WHICH LIMIT FLOW OF HOT WATER TO LAVATORIES AND HAND SINKS TO A MINIMUM OF 0.5 GPH AND SIZED AS RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY ASHRAE STANDARD 90-75, PARAGRAPH 7.7.2, LOCAL AND STATE ENERGY CODES.
- 7. INSTALL LAVATORIES AND HAND SINKS WITH A MINIMUM OF 4" CLEARANCE ON EACH SIDE FROM WALL OR PARTITION.
- 8. COORDINATE DIMENSIONS REQUIRED FOR MINIMUM FIXTURE CLEARANCE WITH OTHER DIVISIONS.
- 9. INSTALL APPROVED CAULKING AROUND JOINTS AT FIXTURES MOUNTED ON WALL OR FLOOR.
- 10. INSTALL INSULATED PIPE WRAP ON HOT WATER LINES FOR ALL ADA FIXTURES.

CONCRETE SURFACE OR FLOOR

CLEANOUT PLUG

FINISHED FLOOR

CAULKING FERRULE

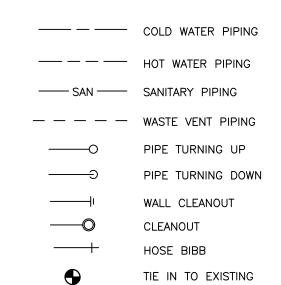
COVERING AS REQUIRED

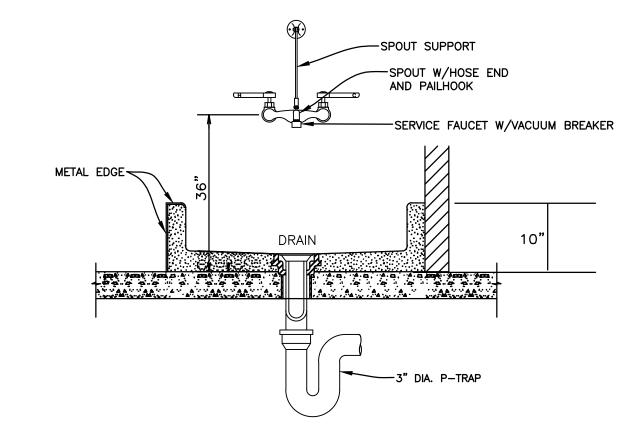
CLEANOUT COVER

1 FLOOR CLEANOUT DETAIL

∠ CSK SCREW

PLUMBING SYMBOL LEGEND







PLUMBING FIXTURE SCHEDULE

WC-1 WATER CLOSET, FLOOR MOUNTED FLUSH VALVE, ELONGATED - ZURN ECOVANTAGE SERIES, LOW CONSUMPTION, Z5655; ZURN Z6000AV-HET 1.28 GPF FLUSH VALVE W/SPLIT RING PIPE SUPPORT; ZURN Z5955SS-EL OPEN FRONT SEAT WITHOUT COVER; BRASSCRAFT CR1912DL SUPPLY. MOUNT FIXTURE WITH RIM AT 15" AFF. CONNECTIONS: CW 1-1/2", WASTE 3", VENT 2" MIN.

WC-2 ADA WATER CLOSET, FLOOR MOUNTED FLUSH VALVE, ELONGATED — ZURN ECOVANTAGE SERIES, LOW CONSUMPTION, Z5665; ZURN Z6000AV-HET 1.28 GPF FLUSH VALVE W/SPLIT RING PIPE SUPPORT; ZURN Z5955SS-EL OPEN FRONT SEAT WITHOUT COVER; BRASSCRAFT CR1912DL SUPPLY. MOUNT FIXTURE AT ADA HEIGHT WITH RIM AT 16-3/4" AFF. CONNECTIONS: CW 1-1/2", WASTE 3", VENT 2" MIN.

UR-1 URINAL (ADA) WALL MOUNTED, ZURN ECOVANTAGE SERIES, LOW CONSUMPTION Z5798.207; VITREOUS CHINA WITH ZURN Z6003AV-ULF LUSH VALVE WITH SPLIT RING PIPE SUPPORT. INSTALL RIM OF URINAL NO HIGHER THAN 17" AFF. CONNECTIONS: CW 3/4", WASTE 2", VENT

UR-2 URINAL WALL MOUNTED, ZURN ECOVANTAGE SERIES, LOW CONSUMPTION Z5798.207; VITREOUS CHINA WITH ZURN Z6003AV-ULF FLUSH VALVE WITH SPLIT RING PIPE SUPPORT. INSTALL RIM OF URINAL 24" AFF. CONNECTIONS: CW 3/4", WASTE 2", VENT 2"

LV-1 LAVATORY, SELF RIMMING, COUNTER MOUNTED - ZURN Z5124 SERIES WITH VITREOUS CHINA CONSTRUCTION AND 4" FAUCET CENTERS; ZURN Z831R4 FAUCET WITH LEVER HANDLES, ZURN Z8800 SUPPLIES; ZURN Z8700 TRAP; Z8743-PC ADA GRID STRAINER; ZURN Z8946-3-NT ADA PROTECTORS, CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". MOUNT AT 34" TOP OF RIM FOR ADA REQUIRED MOUNTING HEIGHT.

EWC-1 ELECTRIC WATER COOLER, OASIS P8SBFSL SPLIT LEVEL WATER COOLER WITH BOTTLE FILLER, PUSH PAD ACTIVATION, CONNECTIONS: CW 1/2", WASTE 1 1/4". SK-1 KITCHEN SINK, KOHLER TOCCATA, TOP MOUNT, TWO BOWL, STAINLESS STEEL, 3 HOLE GOOSE NECK KITCHEN FAUCET, CONNECTIONS: CW

MS-1 MOP BASIN - ZURN Z1996-24 COMPOSITE MOP SINK WITH INTEGRAL 3" DRAIN; Z1996-SF SERVICE FAUCET WITH PALE HOOK, -SDL DRAIN, STRAINER & LINT BASKET, -MH MOP HANGER, -HH HOSE & BRACKET, -BV VINYL BUMPER GUARDS, -WG SS WALL GUARD. COORDINATE WITH GENERAL CONTRACTOR TO INSURE THAT 2" THICK BLOCKING IS PROVIDED IN WALL FOR FAUCET MOUNTING. CONNECTIONS: CW 1/2", HW 1/2" (140°F), WASTE 3", VENT 2" MIN.

UB-1 UTILITY BOX - OATEY WATER BOX, QUARTER TURN VALVE, LOCKING OUTER COVER. CONNECTIONS: CW 3/8"

HINGED COVER, KEY LOCK, ALL BRONZE INTERIOR PARTS. COVER STAMPED "WATER".

FD-1 FLOOR DRAIN - MIFAB F1100-1-6-7, 6" DIAMETER, BOTTOM OUTLET, CAST IRON BODY WITH NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS. FURNISH WITH CLAMPING DEVICE IN MEMBRANE FLOOR AREAS. FURNISH WITH PRO-SET TRAP SEAL. COORDINATE EXACT LOCATION OF DRAIN WITH ARCHITECTURAL PLANS SO AS TO CENTER FLOOR DRAIN CENTER OF TILE. FLOOR SHALL BE SLOPED TOWARD DRAIN.

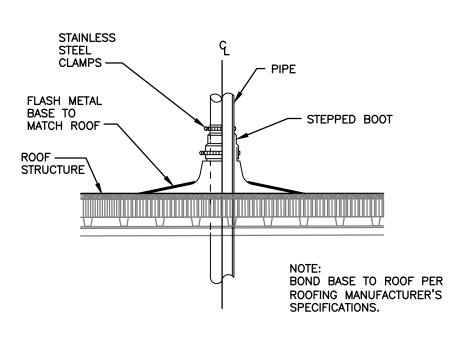
TD-1 TRENCH DRAIN - ZURN ZS880 - 304SS LINEAR SHOWER DRAIN, CENTER OUTLET, ADJUSTABLE LEVELING FRAME, SLOTTED HEEL-PROOF GRATE, 3' LINEAR DRAIN FOR STANDARD SHOWER, 5' LINEAR DRAIN FOR ADA SHOWER. 2" WASTE CONNECTION HB-1 HOSE BIBB, OUTDOOR TYPE, ZURN Z-1320 WITH CERAMIC DISC, NON-FREEZE, ENCASED, ANTI-SIPHON, AUTO DRAIN, S.S. BOX &

							WATER H	EATER SCH	HEDULE				
		ELECT	RIC DATA				HYDRONIC	DATA					
TAG	FLA	МОСР	VOLT PHASE	KW	EWT	LWT	RATE OF RECOVERY	RISE OF RECOVERY	CAPACITY (GAL)	BASIS	OF DESIGN	WEIGHT	NOTES
	AMPS	AMPS	FHASE		DEG.F	DEG.F	GPM	DEG. F	(GAL)	MFGR	MODEL	LBS	
WH-1	22	25	208/1	4.5	60	120	0.55	60	80	RHEEM	ELD80	750	ALL
WH-2	25	25	208/1	6	60	140	1.5	80	_	RHEEM	RTEX-06	25	ALL

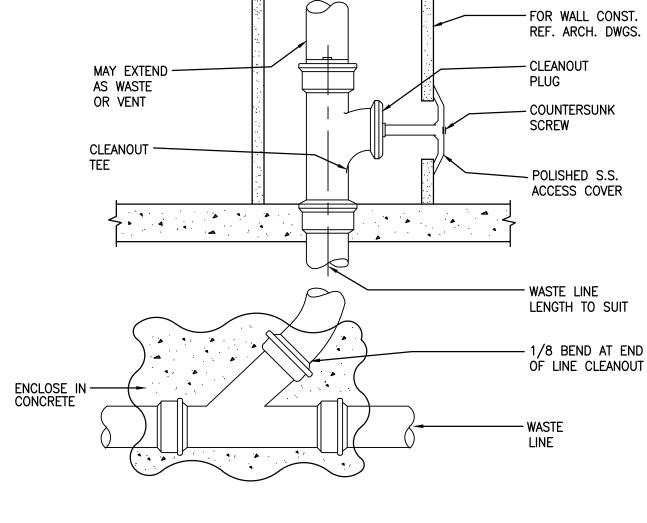
NOTES:

1/2", HW 1/2", WASTE 1 1/4".

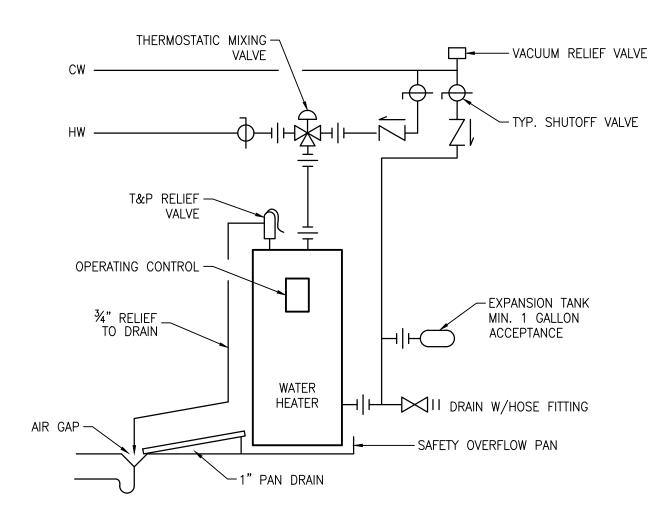
. 3/4" INLET OUTLET CONNECTIONS SUPPLY 140°F WATER TO MOP SINK AND 110°F WATER TO LAVATORIES AND SHOWERS. LAVATORIES AND SHOWERS SHALL BE SUPPLIED VIA TEMPERATURE LIMITING DEVICES THAT CONFORM WITH ASSE 1070. 3. OPERATING PRESSURE BETWEEN 20PSI TO 150 PSI



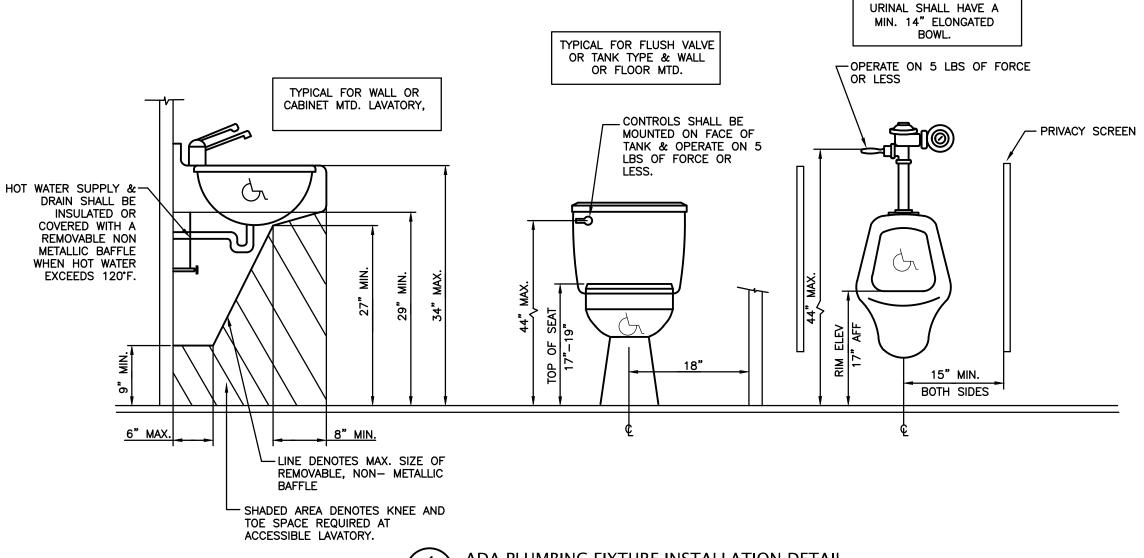
5 VENT THRU ROOF DETAIL P100 SCALE: N.T.S.



 \ WALL CLEANOUT DETAIL P100 SCALE: N.T.S.



3 WATER HEATER DETAIL



ADA PLUMBING FIXTURE INSTALLATION DETAIL

ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

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MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646

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DATE DESCRIPTION

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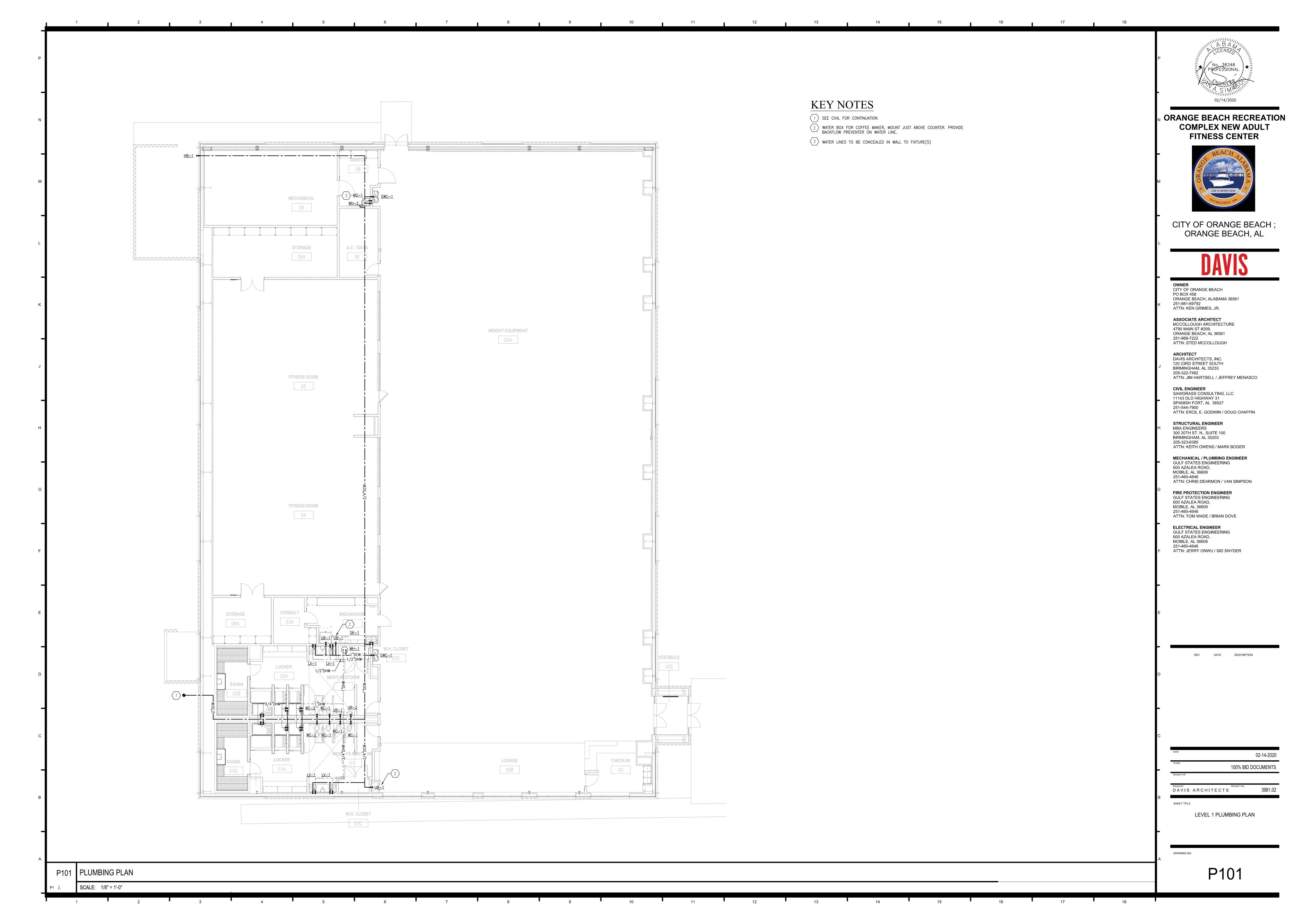
DAVIS ARCHITECTS

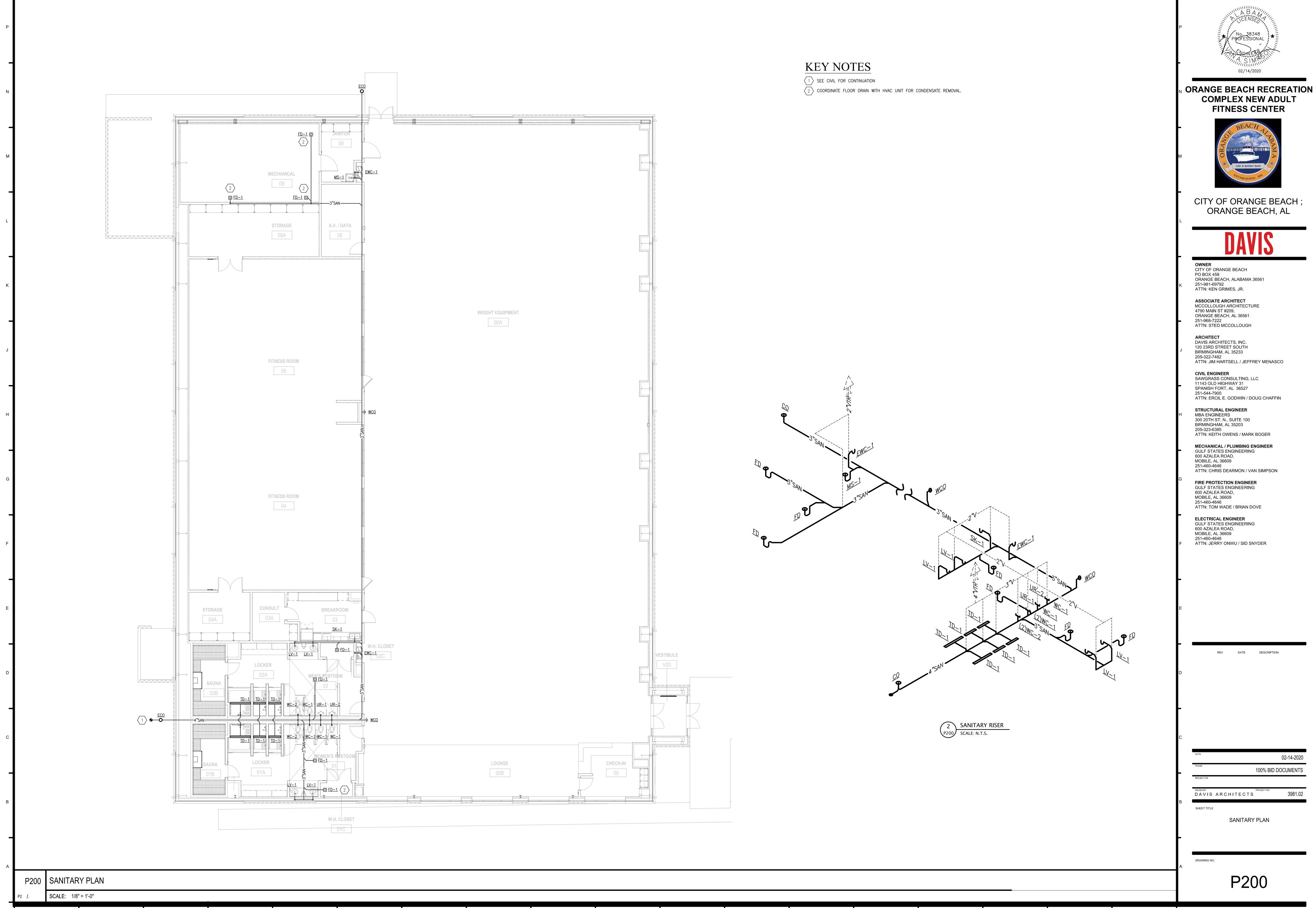
PLUMBING NOTES, SCHEDULES, LEGENDS

P100

P100 PLUMBING NOTES, SCHEDULES, LEGENDS

SCALE: NONE





NOTES

1. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM. 2x4 TROFFERS SHALL BE SUPPORTED WITH CABLE FROM ALL FOUR CORNERS.

2. FOR HOME RUNS ON 20 AMP CIRCUITS EXCEEDING SEVENTY FIVE (75) FEET FROM THE PANEL BOARD, USE #10 AWG MIN.

3. ALL MOUNTING HEIGHTS ARE GIVEN TO THE BOTTOM OF THE DEVICE UNLESS NOTED OTHERWISE.

4. THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.

5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES.

6. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE REQUIRED AND MANUFACTURER RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED.

7. BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.

8. GROUND TELEPHONE EQUIPMENT TO THE ELECTRICAL SERVICE GROUNDING SYSTEM PER N.E.C.

9. ALL CIRCUIT BREAKERS IN PANEL SHALL BE FULLY RATED

10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THE ELECTRICAL SERVICE ARRANGEMENTS WITH THE LOCAL POWER COMPANY AND WITH OWNER SUPPLIED SITE PLAN. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR A COMPLETE INSTALLATION.

11. CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SITE AS DETERMINED BY THE LOCAL UTILITY. E.C. SHALL COORDINATE WITH LOCAL UTILITY BEFORE STARTING WORK.

12. ALL BUILDING SYSTEM GROUND RODS SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING SYSTEM. GROUNDING SYSTEM SHALL COMPLY WITH N.E.C. ARTICLE 250.

13. THE WORD "PROVIDE" MEANS FURNISH AND INSTALL.

14. MC CABLE IS ALLOWED AS A VE ALTERNATE.

15. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.

16. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FITTINGS AND NECESSARY EQUIPMENT FOR LIGHT FIXTURE MOUNTING, AND

17. ALL FIRE BARRIER PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE SEALANT. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL RATED WALLS AND CEILINGS PRIOR TO BID SO AN UNDERSTANDING OF NUMBER OF SEALS REQUIRED, AND DETERMINE METHOD FOR MINIMIZING THE SEAL REQUIREMENTS.

LEGEND

(T) SPECIFICATION GRADE DUPLEX RECEPTACLE, GRAY COLOR, - 20 AMP. 125V. TAMPER PROOF HEAVY DUTY. MTD. @ 16" A.F.F. UNLESS NOTED, WITH BRUSHED STAINLESS STEEL FACEPLATE.

SPECIFICATION GRADE DUPLEX RECEPTACLE, GRAY COLOR,- 20 AMP, 125V. TAMPER PROOF. WITH USB CHARGING PORTS. MTD. @ 16" A.F.F.

UNLESS NOTED, WITH BRUSHED STAINLESS STEEL FACEPLATE. MTD. @ 16" A.F.F. UNLESS NOTED, WITH WEATHER-PROOF IN USE

SPECIFICATION GRADE, GRAY COLOR, DUPLEX RECEPTACLE - TAMPER G PROOF WITH GROUND FAULT INTERRUPT, MTD. @ 16" A.F.F. UNLESS NOTED, WITH BRUSHED STAINLESS STEEL FACEPLATE.

"C" INDICATES DEVICE MOUNTED @ 2" ABOVE BACKSPLASH UNLESS NOTED. COORDINATE IN FIELD.

SPECIFICATION GRADE, GRAY COLOR, DUPLEX RECEPTACLE - 20 AMP. 125V. TAMPER PROOF HEAVY DUTY. MTD. IN FLOOR BOX, WITH BRASS COVERPLATE.

240V SIMPLEX RECEPTACLE, GRAY COLOR, MTD. AS REQUIRED BY TAUV SIMPLEA REOLITACEL, OTATI OCCORDINATE IN FIELD, WITH BRUSHED

STAINLESS STEEL FACEPLATE. AMPERAGE AS NOTED. SPECIFICATION GRADE 20A-1P TOGGLE SWITCH, HEAVY DUTY, GRAY COLOR,

MOUNTED @ 48" A.F.F. W/BRUSHED STAINLESS STEEL FACEPLATE. \$ SPECIFICATION GRADE 20 AMP THREE WAY TOGGLE SWITCH, HEAVY DUTY, GRAY COLOR, MOUNTED @ 48" A.F.F. W/BRUSHED STAINLESS

STEEL FACEPLATE.

MOUNTED @ 48" A.F.F. W/BRUSHED STAINLESS STEEL FACEPLATE. ♦ OD SPECIFICATION GRADE 0-10V LED DIMMER/OCCUPANCY SWITCH GRAY COLOR, MOUNTED @ 48" A.F.F. W/BRUSHED STAINLESS STEEL

FACEPLATE, LUTRON MAESTRO OR EQUAL. ♦0 SPECIFICATION GRADE WALL MOUNTED OCCUPANCY SWITCH GRAY COLOR, MOUNTED @ 48" A.F.F. W/BRUSHED STAINLESS STEEL FACEPLATE. STEINEL DT WLS 1W U22.

\$ M 120V, 20AMP MOTOR RATED TOGGLE SWITCH, WITH LOCKING DEVICE.

VOICE/DATA OUTLET, GRAY COLOR, MOUNTED @ 16" A.F.F. WITH BRUSHED STAINLESS STEEL FACEPLATE. MTD. @ 16" A.F.F. UNLESS NOTED. RUN (2) CAT 6 CABLES FROM OUTLET TO AV/DATA ROOM.

WALL MOUNTED VOICE OUTLET, GRAY COLOR, MOUNTED @ 54" A.F.F. WITH BRUSHED STAINLESS STEEL FACEPLATE. MTD. @ 16" A.F.F. UNLESS NOTED. RUN (2) CAT 6 CABLES FROM OUTLET TO AV/DATA ROOM.

VOICE/DATA OUTLET, GRAY COLOR, FLOOR MOUNTED. WITH BRUSHED STAINLESS STEEL FACEPLATE. RUN (2) CAT 6 CABLES FROM OUTLET TO AV/DATA ROOM.

CABLE TV OUTLET, GRAY COLOR, BOX MTD. @ 16" A.F.F. UNLESS NOTED. FLUSH MOUNTED 1 GANG WALL BOX. CONTRACTOR TO RUN CO-AX FROM OUTLET TO AV/DATA ROOM.

COMPUTER DATA OUTLET, GRAY COLOR, BOX MTD @ 16" A.F.F. UNLESS \triangle NOTED FLUSH MOUNTED 1 GANG WALL BOX. CONTRACTOR TO RUN (2) CAT 6 CABLES FROM OUTLET TO AV/DATA ROOM.

EXHAUST FAN

JUNCTION BOX LOCATION MOUNTED AS NOTED ON DRAWING, SIZED AS REQUIRED BY EQUIPMENT BEING SERVED.

DISCONNECT SWITCH, SIZE AND TYPE AS NOTED.

HOME RUN CONDUIT, CIRCUIT NUMBER AS INDICATED ON DRAWINGS, HASHMARKS INDICATE HOT NEUTRAL AND GROUND.

----- CONDUIT RUN IN FLOOR OR SLAB.

———— CONDUIT RUN IN WALLS OR CEILING.

FAN CONTROLLER

WH 12 AWG GN 12 AWG

WALL SWITCH/SENSOR WITH 0-10V DIMMING

WIRING DIAGRAM

SCALE: NONE

0-10V DIMMER



1. ALL DEVICE COLORS SHALL BE GRAY.

2. ALL FACEPLATES TO BRUSHED STAINLESS STEEL.

TO ADDITIONAL FIXTURES ON THE SAME SWITCH

(OR CONTROL CIRCUIT)

LED DRIVER

GN 12 AWG TO ADDITIONAL FIXTURES WH 12 AWG ON THE SAME SWITCH BK 12 AWG (OR CONTROL CIRCUIT)

H N G

LVD\$ LOW VOLTAGE DIMMER CONTROLLER STEINEL LV1-U22(FINISH).

LV \$ LOW VOLTAGE CONTROLLER STEINEL LV1-U22 (FINISH).

OC\$ DUAL TECHNOLOGY WALL OCCUPANCY SWITCH, STEINEL DT-WLSI-U22. (S) CEILING MOUNTED OCCUPANCY STEINEL DT QUATTRO-COM-24-U22.

————— LOW VOLTAGE WIRING. SEE MANUFACTURER DRAWINGS FOR MORE INFORMATION.

(PP) POWER PACK STEINEL TR-100-U22.

PP TWO POLE POWER PACK

AIR DUCT SMOKE DETECTOR, W/EXTRA SET OF CONTACTS

HORN STROBE WEATHER PROOF

S=SUPPLY, R=RETURN

HORN STROBE 15cd UNLESS OTHERWISE NOTED

CEILING MOUNTED SMOKE DETECTOR

STROBE 15cd UNLESS OTHERWISE NOTED

CEILING HORN STROBE 15cd UNLESS OTHERWISE NOTED

CEILING STROBE 15cd UNLESS OTHERWISE NOTED

FLUSH MOUNTED PULL STATION

RM ENCLOSED RELAY MODULE

WATER FLOW SWITCH

SURGE SUPPRESOR

TAMPER SWITCH

FACP FIRE ALARM CONTROL PANEL

ANN FIRE ALARM REMOTE ANNUCIATOR (COORDINATE EXACT LOCATION W/OWNER, MUST BE IN A CONSTANTLY ATTENDED LOCATION)

FCPS FIELD CHARGING POWER SUPPLY

KITCHEN HOOD SYSTEM

KNOX-BOX SUPERVISED BY F.A. SYSTEM

24V WATERFLOW BELL

120A 20A, 240V SIMPLEX RECEPTACLE, MOUNTED AS REQUIRED BY EQUIPMENT BEING SERVED, WITH BRUSHED STAINLESS

↑ 30A 30A, 240V SIMPLEX RECEPTACLE, MOUNTED AS REQUIRED BY EQUIPMENT BEING SERVED, WITH BRUSHED STAINLESS STEEL FACEPLATE.

E SECURITY CAMERA WITH EXPOSED CONDUIT AND JUNCTION BOX SURFACE MOUNTED, POE (POWER OVER ETHERNET) RUN 3/4" C. WITH (1) CAT 6 CABLE FROM CAMERA TO AV/DATA ROOM. MOUNT CAMERA AT 11'-6" AFF. UNLESS NOTED OTHERWISE. ALL CONDUIT TO CONCEALED, NO EXPOSED CONDUIT ALLOWED.

C | SECURITY CAMERA WITH CONCEALLED CONDUIT AND JUNCTION BOX SURFACE MOUNTED, POE (POWER OVER ETHERNET) RUN 3/4" C. WITH (1) CAT 6 CABLE FROM CAMERA TO AV/DATA ROOM, MOUNT CAMERA AT 19'-0" AFF. UNLESS NOTED OTHERWISE. ALL CONDUIT TO CONCEALED, NO EXPOSED CONDUIT ALLOWED.

T S SECURITY CAMERA SURFACE MOUNTED TO CEILING TILE, POE (POWER OVER ETHERNET) RUN 3/4" C. WITH (1) CAT 6 CABLE FROM CAMERA TO AV/DATA ROOM. ALL CONDUIT TO CONCEALED, NO EXPOSED CONDUIT ALLOWED.

SPECIFICATION GRADE DUPLEX RECEPTACLE - 20 AMP, 125V. TAMPER PROOF HEAVY DUTY. MTD. IN FLOOR BOX, WITH BRASS COVERPLATE.

SPECIFICATION GRADE DOUBLE DUPLEX RECEPTACLE - 20 AMP, 125V. TAMPER PROOF HEAVY DUTY. MTD. IN FLOOR BOX, WITH BRASS COVERPLATE.

WAP WIRELESS ACCESS POINT, WALL MOUNTED AT 11'-4". POE (POWER OVER ETHERNET) RUN (1) CAT 6 CABLE FROM WAP TO AV/DATA ROOM.

WIRELESS ACCESS POINT, SURFACE MOUNTED AT 8'-6". POE (POWER OVER ETHERNET) RUN (1) CAT 6 CABLE FROM WAP TO AV/DATA ROOM.

CABLE TV OUTLET WITH COAX CABLE BACK TO TELEPHONE BACKBOARD.

ACCESS CONTROL, CARD READER 48" AFF. POE (POWER OVER ETHERNET) RUN (1) CAT 6 CABLE FROM WAP TO AV/DATA ROOM.

EMERGENCY PULL STATION, PROVIDE (1) DOUBLE GANG BOX WITH 3/4" CONDUIT TO JUNCTION BOX AT CHECK IN DESK.

| WH | SAUNA WALL HEATER.

AIC-P AUDIO INPUT CONTROLLER STATION AND PAGING MICROPHONE. INCLUDING AUX., USB, BLUETOOTH, AND CD INPUT. PROVIDE (1) SINGLE GANG AND (1) DOUBLE GANG BOX WITH 1" CONDUIT TO EQUIPMENT "R1" IN A/V

AUDIO INPUT CONTROLLER STATION. INCLUDING AUX., USB, BLUETOOTH, AND CD INPUT. PROVIDE (1) SINGLE GANG AND (1) DOUBLE GANG BOX WITH 1" CONDUIT TO EQUIPMENT "R1" IN A/V DATA ROOM.

TWO-WAY INTERCOM SPEAKER SYSTEM AND PUSHBUTTON ENTRY PANEL, ONE IN VESTIBULE, AND ONE AT CHECK IN DESK FOR ACCES ENTRY.

WATER PROOF SPEAKER WALL MOUNTED, COLOR CHOSEN BY ARCHITECT MOUNTED AT 8'-0" AFF. BOGEN A2T.

12" DIAMETER CEILING MOUNTED SPEAKER MOUNTED IN GRID. BOSE

16" DIAMETER CEILING MOUNTED SUB SPEAKER MOUNTED IN GRID. BOSE

16" DIAMETER CEILING MOUNTED SUB SPEAKER MOUNTED IN GRID. BOSE

A/V EQUIPMENT RACK. (2) EACH LOWELL LWR-1228.

PENDANT MOUNTED. BOSE FREESPACE 3 SERIES II.

ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



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ATTN: ERCIL E. GODWIN / DOUG CHAFFIN STRUCTURAL ENGINEER MBA ENGINEERS 300 20TH ST. N., SUITE 100

BIRMINGHAM, AL 35203

205-323-6385

ATTN: KEITH OWENS / MARK BOGER **MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING** 600 AZALEA ROAD. MOBILE, AL 36609 251-460-4646

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REV DATE DESCRIPTION

02-14-2020 100% BID DOCUMENTS

DAVIS ARCHITECTS

ELECTRICAL LEGENDS, NOTES, SCHEDULES

E100

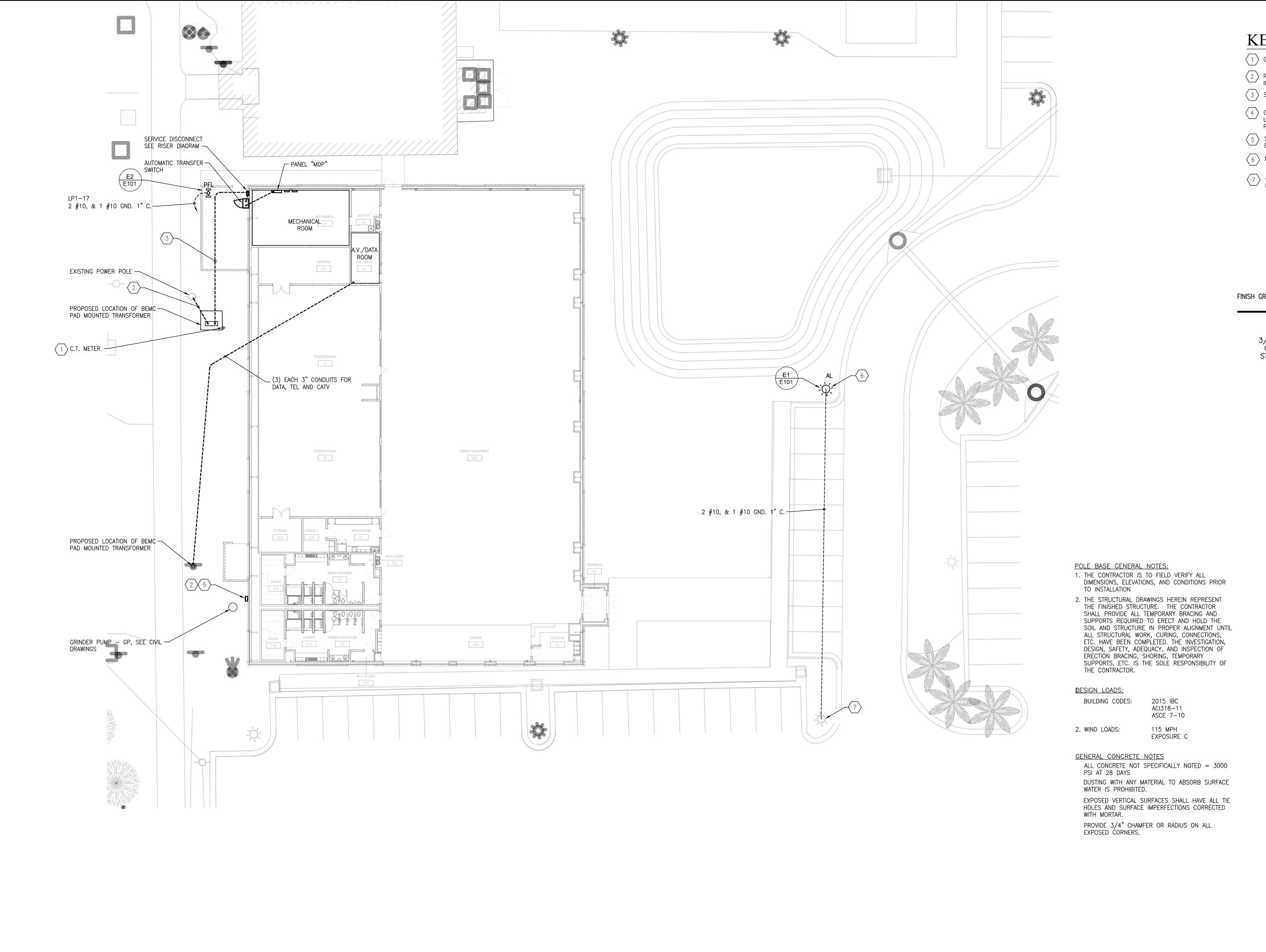
E100 | ELECTRICAL LEGENDS, NOTES, SCHEDULES

BK 12 AWG H

GN 12 AWG

120V FROM WH 12 AWG N

PANELBOARD



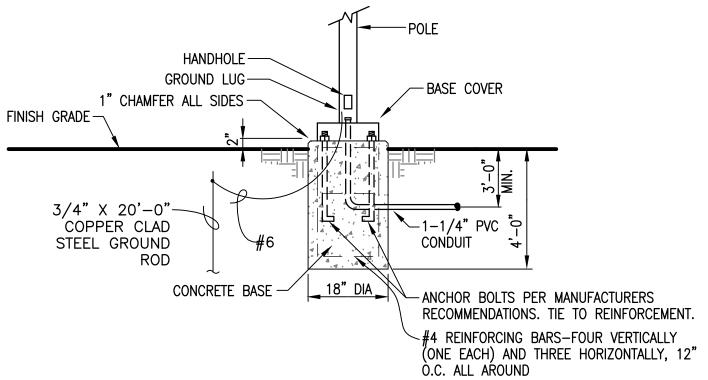
1 2 3 4 5 6 7 8 9 10 11 12 13 15 16 17 18

E101 ELECTRICAL SITE PLAN

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

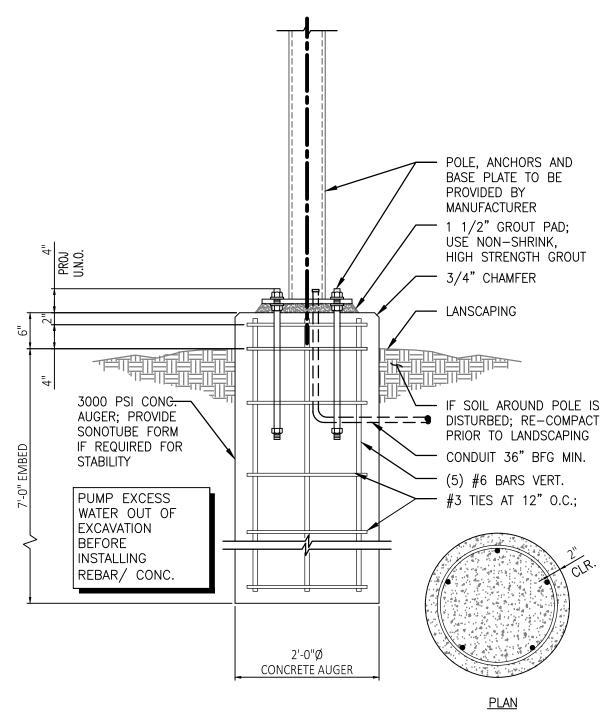
KEY NOTES

- $\left\langle 1 \right\rangle$ COORDINATE EXACT LOCATION OF C.T. METER WITH BALDWIN EMC.
- PRIMARY CONDUITS, SEE RISER DIAGRAM E400. COORDINATE WITH BALDWIN EMC IN FIELD.
- $\overline{3}$ SECONDARY CONDUITS, SEE RISER DIAGRAM E400.
- GRINDER PUMP CONTROL PANEL WITH INTERNAL DISCONNECTING MEANS WITH LOCK DEVICE. PROVIDE DISCONNECT IF NO INTERNAL DISCONNECTING MEANS IS
- 5 SEE ELECTRICAL EQUIPMENT SCHEDULE E102 FOR EQUIPMENT BRANCH CIRCUIT CHARACTERISTICS, BREAKER SIZE, CIRCUIT NUMBER, CONDUCTOR SIZE, WIRE SIZE, DISCONNECT SIZE AND RATING.
- $\left\langle 6 \right\rangle$ NEW DECORATIVE LIGHT POLE, CONNECT TO EXISTING LIGHT POLE WHERE SHOWN.
- 7 CONNECT NEW LIGHT TO THIS POLE. INSURE NO EXPOSED CONDUIT, JUNCTION BOXES OR FITTINGS ARE USED. PROVIDE NEW POLE CONCRETE BASE IF REQUIRED.



POLES <= 15 FEET IN LENGTH

POLE BASE DETAIL



POLE BASE DETAIL

2/4" - 1' 0"



ORANGE BEACH RECREATION
COMPLEX NEW ADULT
FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

AVIS

OWNER
CITY OF ORANGE BEACH
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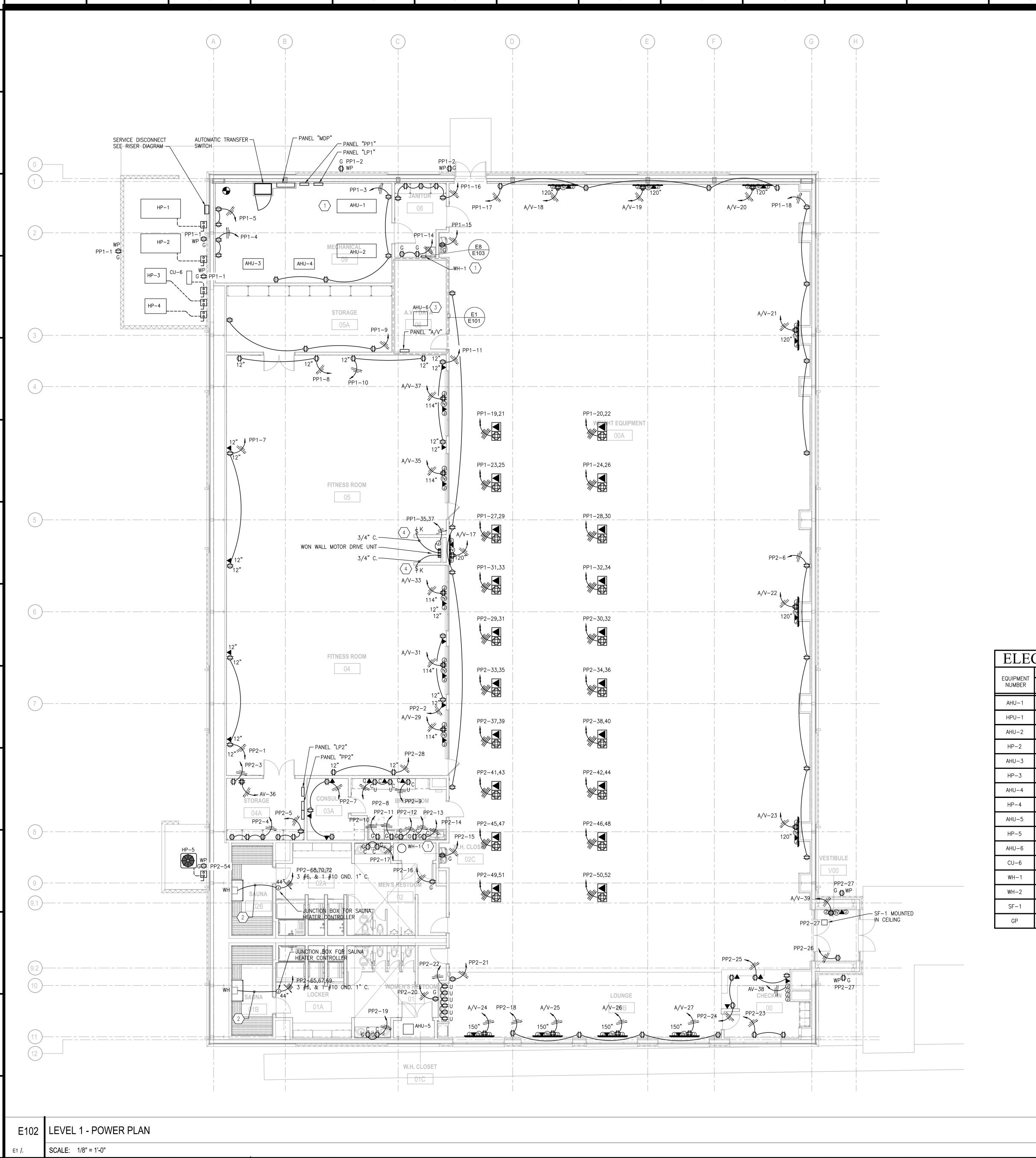
REV DATE DESCRIPTION

02-14-2020 100% BID DOCUMENTS

DAVIS ARCHITECTS

ELECTRICAL SITE PLAN

DRAWING NO



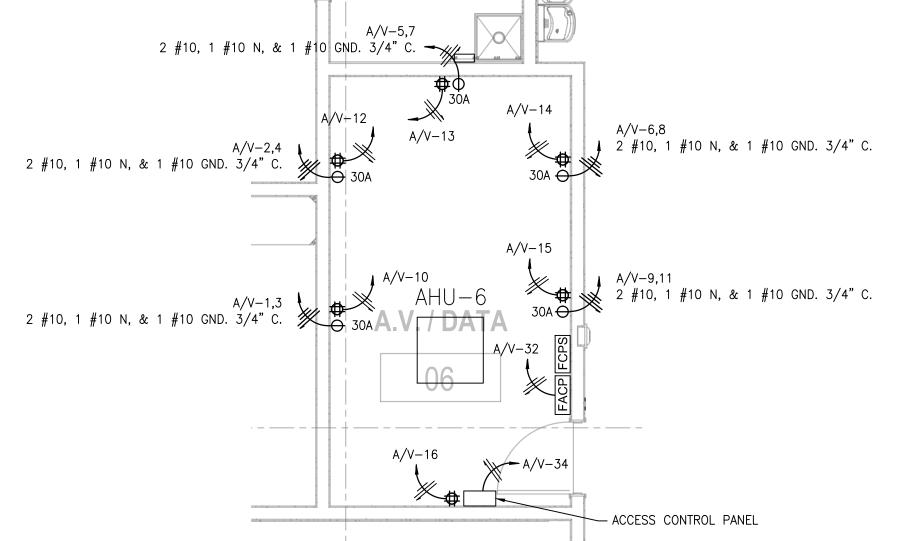
KEYED NOTES:

- SEE ELECTRICAL EQUIPMENT SCHEDULE FOR EQUIPMENT BRANCH CIRCUIT CHARACTERISTICS, BREAKER SIZE, CIRCUIT NUMBER, CONDUCTOR SIZE, WIRE SIZE, DISCONNECT SIZE AND RATING.
- 2 PROVIDE 1" CONDUIT FROM SAUNA CONTROLLER TO SAUNA HEATER FOR POWER CONDUCTORS, 3 #6, & 1 #10 GND.
- $\sqrt{3}$ AHU-6 IS SERVED FROM HPU-6. PROVIDE 3 #12, 3/4" C. FROM HPU-6 TO AHU-6.
- (4) KEY SWITCH TO OPERATE MOTORIZED WON DOOR. CONNECT TO MOTOR DRIVE UNIT PER MANUFACTURERS DRAWINGS.

NOTES:

- 1. CONDUIT SHALL BE RUN CONCEALED IN WALLS.
- 2. ALL CONDUIT RUNS SHALL BE RUN PARALLEL TO STRUCTURE AND PLUMB.
- 3. ALL EXPOSED CONDUIT AND JUNCTION BOXES SHOULD BE PAINTED TO MATCH ADJACENT CEILING OR WALLS COLORS TO BE VERIFIED WITH ARCHITECT PRIOR TO APPLICATION. ALL ELEMENTS TO BE PAINTABLE MATERIAL.

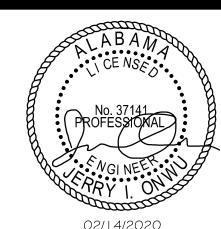
 4. ALL PENETRATIONS WHICH TAKE PLACE THROUGH THE EXTERIOR WALLS MUST BE EXECUTED AND SEALED IN A METHOD APPROVED BY THE PRE-ENGINEERED BUILDING MANUFACTURER TO MAINTAIN BUILDING WARRANTY AND WEATHER TIGHTNESS.
- 5. ALL CONDUIT SERVING OUTDOOR EQUIPMENT AND DEVICES SHALL BE RUN CONCEALLED IN EXTERIOR WALLS. NO CONDUIT TO BE VISIBLE, EXCEPT WHERE NECESSARY TO ROUTE TO THE EQUIPMENT. WHERE NECCESSARY CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
- 6. EXPOSED CONDUIT RUNNING ALONG THE FACE OF THE EXTERIOR OF THE BUILDING WILL NOT BE ACCEPTED AND SHOULD BE COORDINATED THROUGH THE WALLS OR SLABS.
- 6. EXPOSED CONDUIT RUNNING ALONG THE FACE OF THE EXTERIOR OF THE BUILDING WILL NOT BE ACCEPTED AND SHOULD BE COORDINATED THROUGH THE WALLS OR SLABS.



ENLARGED A/V ROOM - POWER PLAN

1/4" = 1'-0"

COLUDIATION		ELE	ECTRICAL	DATA			WIF	RING DATA		FLECTRICAL MOTES
EQUIPMENT NUMBER	KVA	FLA	MCA	СВ	V/Ph/Hz	COND SIZE	GND SIZE	CONDUIT SIZE	DISC SIZE	ELECTRICAL NOTES CIRCUIT NUMBER
AHU-1	24	66.6	76.6	90A	208/3/60	#3	#8	1 1/2"	100A-3P NEMA 1	MDP-19,21,23
HPU-1	19.8	55	63.2	90A	208/3/60	#3	#8	1 1/2"	100A-3P NEMA 3R	MDP-25,27,29
AHU-2	24	66.6	76.6	90A	208/3/60	#3	#8	1 1/2"	100A-3P NEMA 1	MDP-20,22,24
HP-2	19.8	55	63.2	90A	208/3/60	#3	#8	1 1/2"	100A-3P NEMA 3R	MDP-26,28,30
AHU-3	13.8	38.5	44.2	50A	208/3/60	#8	#10	1"	60A-3P NEMA 1	MDP-31,33,335
HP-3	5.8	16.2	18.6	45A	208/3/60	#8	#10	1"	60A-3P NEMA 3R	MDP-37,39,41
AHU-4	13.8	38.5	44.2	50A	208/3/60	#8	#10	1"	60A-3P NEMA 1	MDP-32,34,36
HP-4	5.8	16.2	18.6	45A	208/3/60	#8	#10	1"	60A-3P NEMA 3R	MDP-38,40,42
AHU-5	7	33.8	38.8	40A	208/1/60	#8	#10	3/4"	60A-2P NEMA 1	PP2-75,77
HP-5	4	19.5	22.4	35A	208/1/60	#8	#10	3/4"	60A-2P NEMA 3R	PP2-74,76
AHU-6	N/A	N/A	N/A	N/A	208/1/60	#12	#12	3/4"	30A-2P NEMA 1	SERVED FROM HP-6 (PP1-52,54)
CU-6	1.8	9	11.2	20A	208/1/60	#8	#10	3/4"	60A-2P NEMA 3R	PP1-52,54
WH-1	4	21	24.1	30A	208/1/60	#10	#10	3/4"	30A-2P NEMA 1	PP2-71,73
WH-2	6	28.8	33.1	40A	208/1/60	#8	#10	3/4"	60A-1P NEMA 1	LP1-51,53
SF-1	.01	.08	.092	20A	120/1/60	#12	#12	3/4"	30A-1P NEMA 1	PP2-27
GP	5.8	28	32.2	50A	208/1/60	#8	#10	1"	60A-2P NEMA 3R	PP2-61,63



ORANGE BEACH RECREATION
COMPLEX NEW ADULT
FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

AVIS

OWNER
CITY OF ORANGE BEACH
PO BOX 458
ORANGE BEACH, ALABAMA 36561
251-981-69792
ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT
MCCOLLOUGH ARCHITECTURE
4790 MAIN ST #209,
ORANGE BEACH, AL 36561
251-968-7222

251-968-7222
ATTN: STED MCCOLLOUGH

ARCHITECT
DAVIS ARCHITECTS, INC.

120 23RD STREET SOUTH BIRMINGHAM, AL 35233

205-322-7482

ATTN: JIM HARTSELL / JEFFREY MENASCO

CIVIL ENGINEER
SAWGRASS CONSULTING, LLC

11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER

STRUCTURAL ENGINEER

MBA ENGINEERS

MECHANICAL / PLUMBING ENGINEER
GULF STATES ENGINEERING
600 AZALEA ROAD,
MOBILE, AL 36609
251-460-4646
ATTN: CHRIS DEARMON / VAN SIMPSON

FIRE PROTECTION ENGINEER
GULF STATES ENGINEERING
600 AZALEA ROAD,
MOBILE, AL 36609
251-460-4646

251-460-4646
ATTN: TOM WADE / BRIAN DOVE

ELECTRICAL ENGINEER
GULF STATES ENGINEERING

ATTN: JERRY ONWU / SID SNYDER

600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646

REV DATE DESCRIPTION

PHASE 100% BID DOCUMENTS

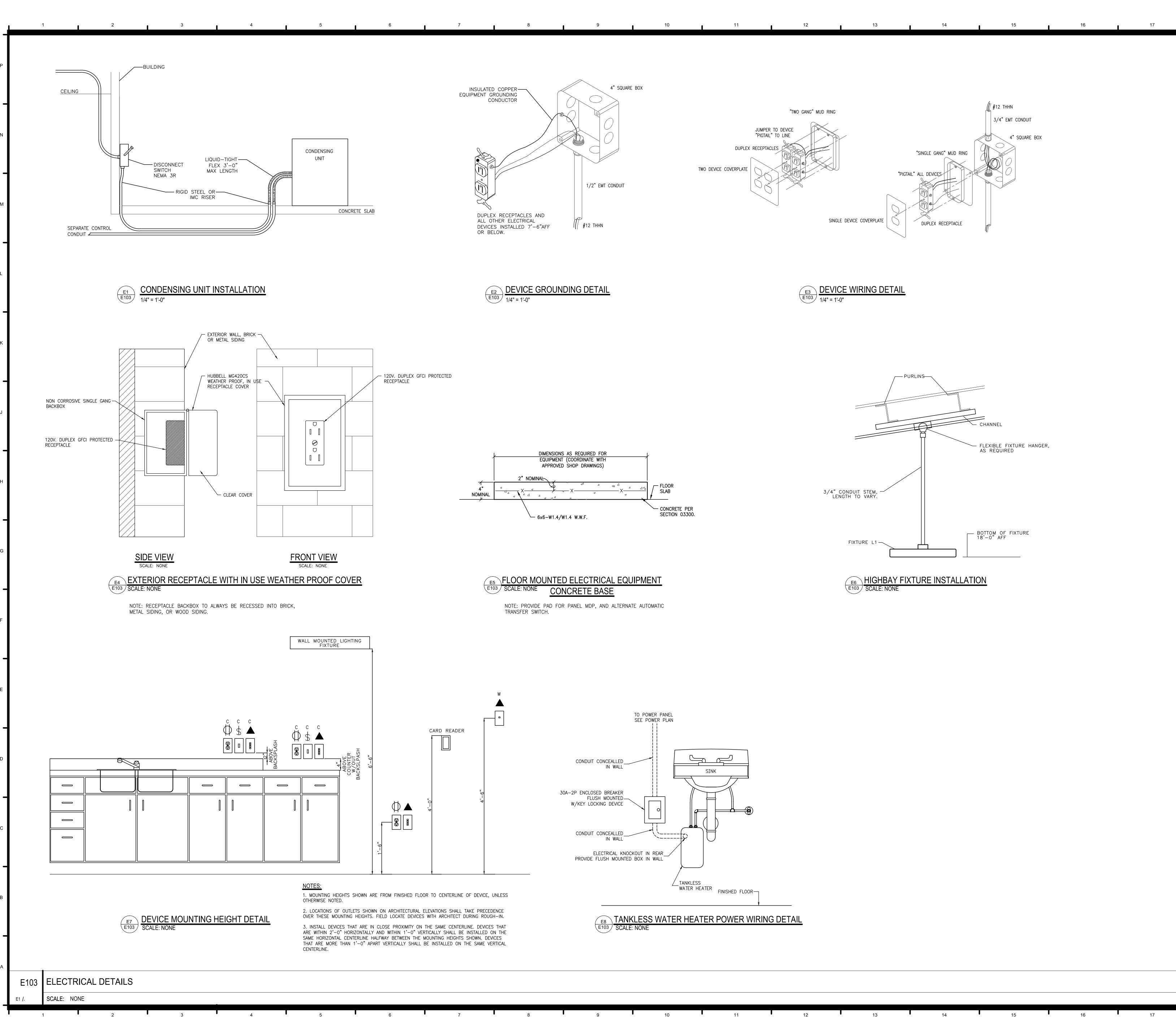
ISSUED FOR

ISSUED BY PROJECT NO. 3981.02

SHEET TITLE

LEVEL 1 - POWER PLAN

DRAWING NO



A B A M CE NSE D No. 37141 PROFESSIONAL PRY I. O

ORANGE BEACH RECREATION
COMPLEX NEW ADULT
FITNESS CENTER



CITY OF ORANGE BEACH ; ORANGE BEACH, AL

IAVIS

OWNER
CITY OF ORANGE BEACH
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ORANGE BEACH, ALABAMA 36561
251-981-69792
ATTN: KEN GRIMES, JR.

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SPANISH FORT, AL 36527
251-544-7900

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ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

STRUCTURAL ENGINEER

MBA ENGINEERS

300 20TH ST. N., SUITE 100

BIRMINGHAM, AL 35203

205-323-6385 ATTN: KEITH OWENS / MARK BOGER MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD,

FIRE PROTECTION ENGINEER
GULF STATES ENGINEERING
600 AZALEA ROAD,

600 AZALEA ROAD, MOBILE, AL 36609 251-460-4646 ATTN: TOM WADE / BRIAN DOVE

MOBILE, AL 36609

251-460-4646

ELECTRICAL ENGINEER
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600 AZALEA ROAD,
MOBILE, AL 36609
251-460-4646
ATTN: JERRY ONWU / SID SNYDER

REV DATE DESCRIPTION

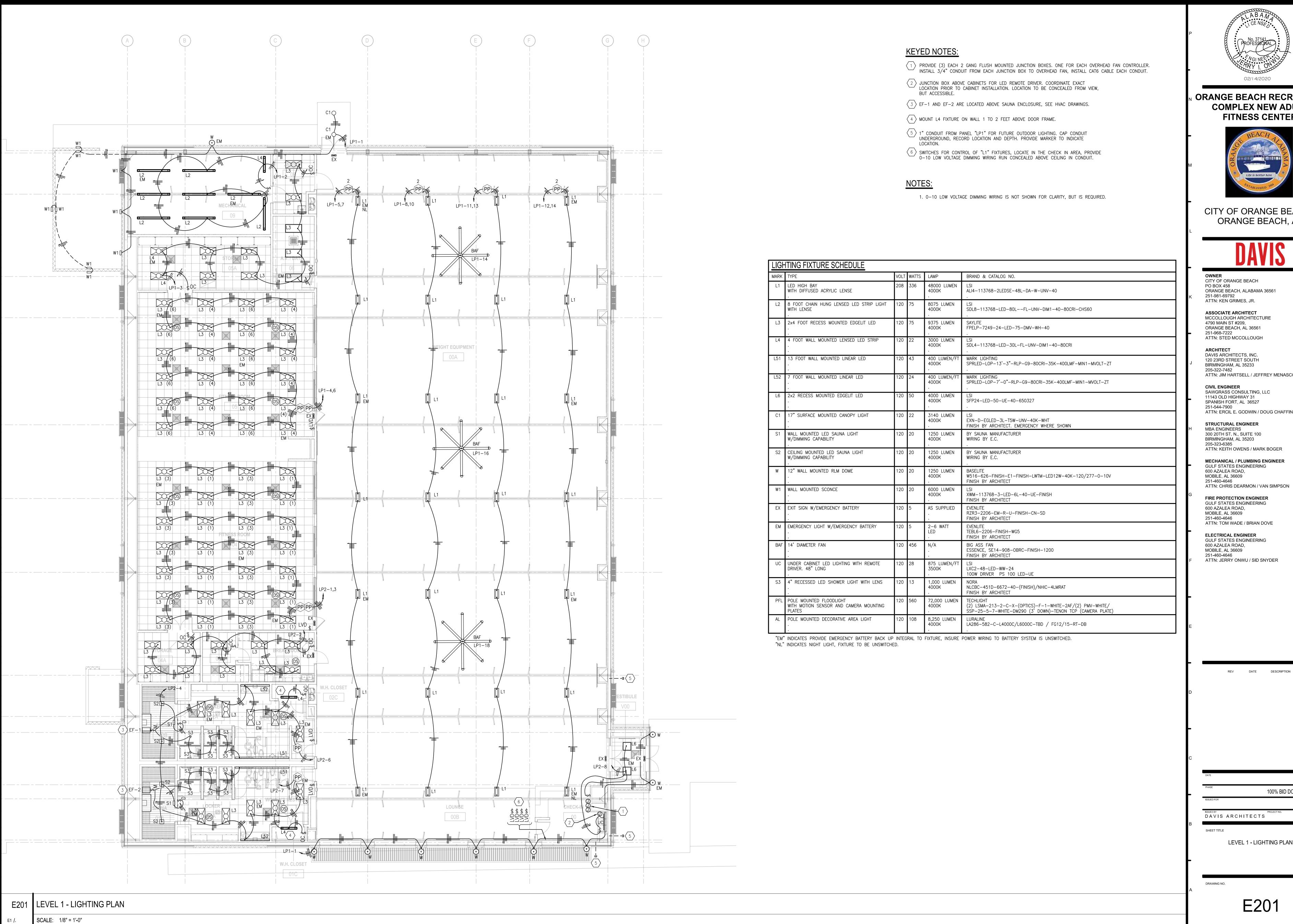
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ISSUED BY PROJECT NO.
DAVIS ARCHITECTS

ELECTRICAL DETAILS

DRAWING NO.

SHEET TITLE



ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

CITY OF ORANGE BEACH ORANGE BEACH, ALABAMA 36561

MCCOLLOUGH ARCHITECTURE ORANGE BEACH, AL 36561 ATTN: STED MCCOLLOUGH

BIRMINGHAM, AL 35233 ATTN: JIM HARTSELL / JEFFREY MENASCO

SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

STRUCTURAL ENGINEER 300 20TH ST. N., SUITE 100

ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING

FIRE PROTECTION ENGINEER GULF STATES ENGINEERING

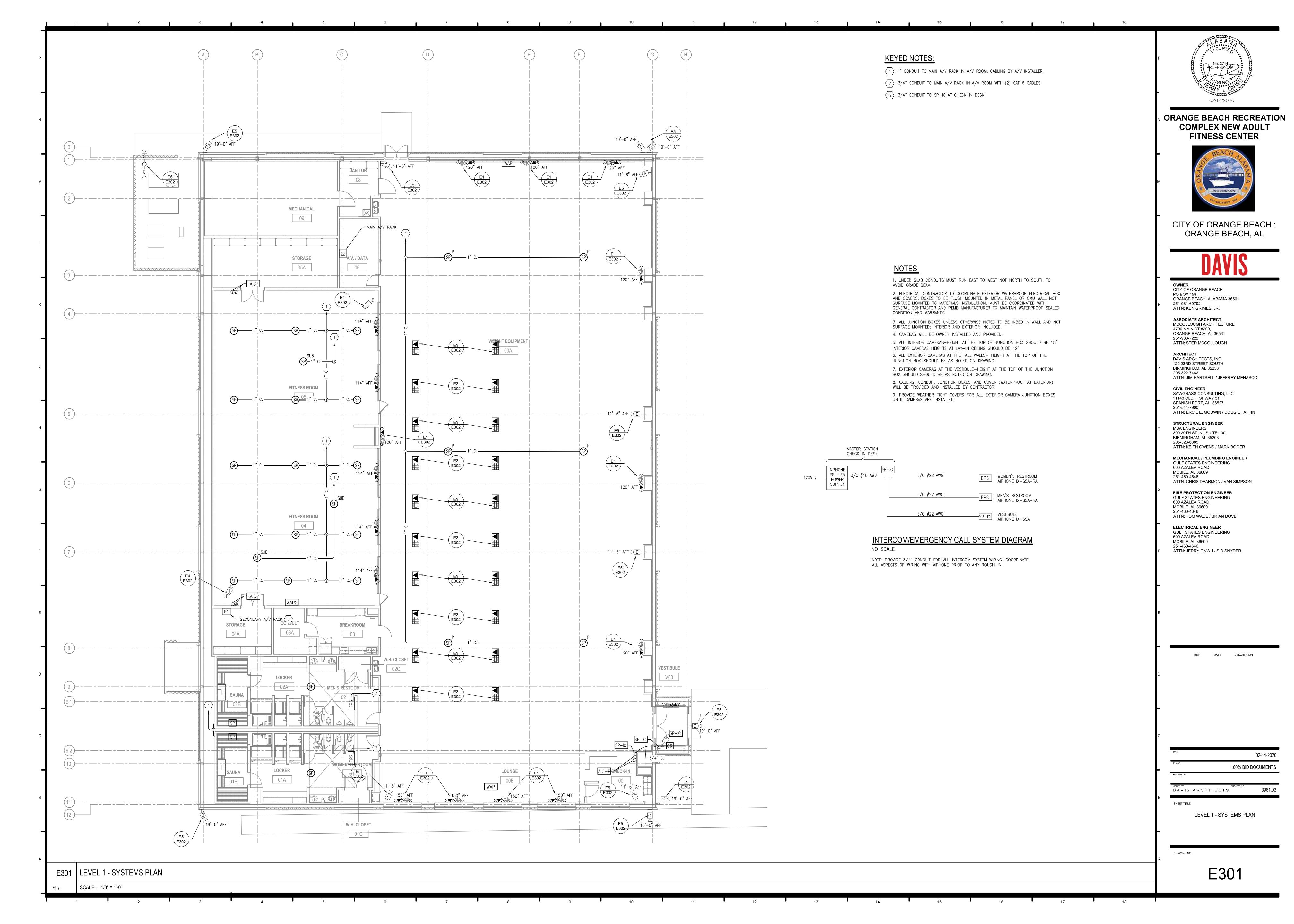
ATTN: TOM WADE / BRIAN DOVE

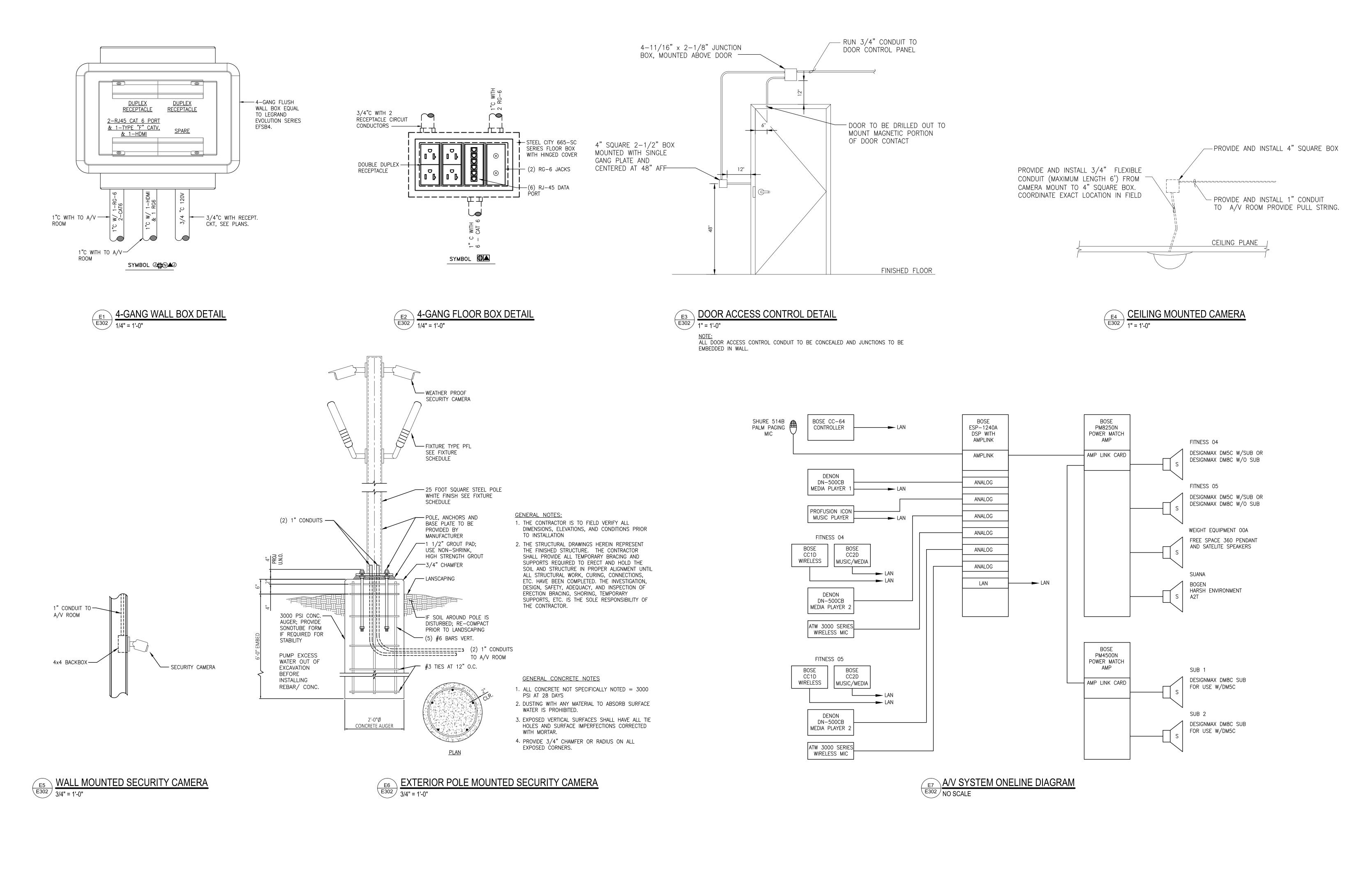
ELECTRICAL ENGINEER GULF STATES ENGINEERING ATTN: JERRY ONWU / SID SNYDER

REV DATE DESCRIPTION

DAVIS ARCHITECTS

LEVEL 1 - LIGHTING PLAN





1 2 3 4 5 6 7 8 9 10 11 12 13 15 16 17 18

A B A M CE NSES No. 37141 PROFESSIONAL

N ORANGE BEACH RECREATION
COMPLEX NEW ADULT
FITNESS CENTER



CITY OF ORANGE BEACH ; ORANGE BEACH, AL

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REV DATE DESCRIPTION

02-14-2020 100% BID DOCUMENTS

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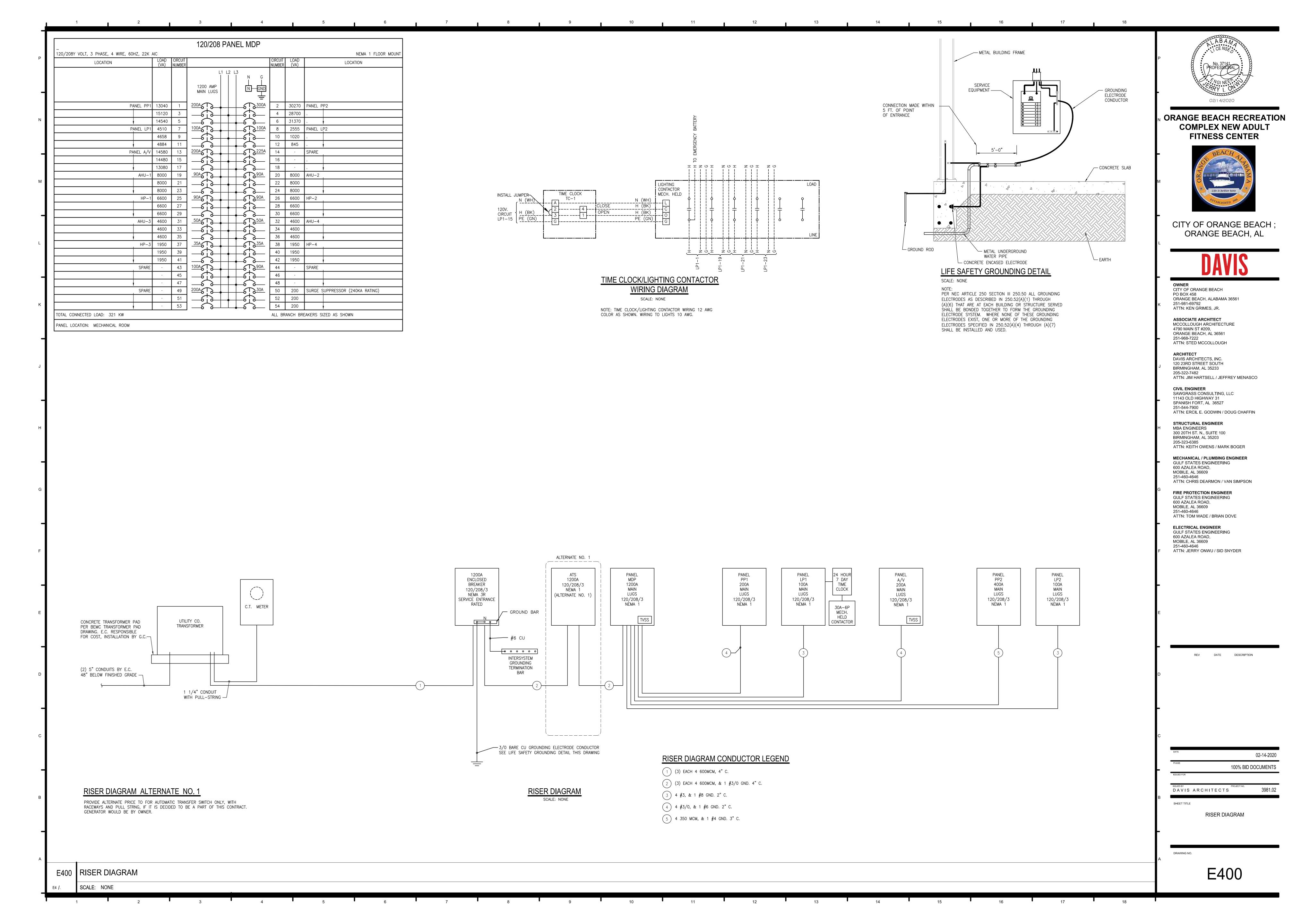
SYSTEMS PLAN DETAILS

DRAWING NO

E302

E302 SYSTEMS PLAN DETAILS

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



_ 120/208 PANEL PP1	120/208 PAN]		120/208 PAN	
	120/208Y VOLT, 3 PHASE, 4 WIRE, 60HZ, 22K AIC		T 120/208Y VOLT, 3 PHASE, 4 WIRE, 60HZ, 22K AIC	NEMA 1 SURFACE MOUNT
LOCATION LOAD CIRCUIT CIRCUIT LOAD LOCATION (VA) NUMBER (VA)	LOCATION LOAD CIRCUIT (VA) NUMBER	CIRCUIT LOAD LOCATION	LOCATION LOAD CIRCUIT (VA) NUMBER	CIRCUIT LOAD LOCATION NUMBER (VA)
L1 L2 L3	L1 L2 L3		L1 L2 L3	
		N G		N G
200 AMP N GND N GND	200 AMP MAIN LUGS	N GND	100 AMP MAIN LUGS	N GND
	MAIN LUGS	_ <u> </u>	MAIN LOGS	_ <u> </u>
RECEPT: UTILITY YARD 540 1 20A 2 360 RECEPT: EXTERIOR NORTH	RECEPT: A/V ROOM 2000 1 30A	30A 2 2000 RECEPT: A/V ROOM	LIGHTING: FITNESS ROOM 04 900 1 20A	20A 2 750 LIGHTING: BREAK RM. 03, CONSULT. 03A, STOR. 04A
RECEPT: MECHANICAL 09 720 3 20A 4 540 RECEPT: MECHANICAL 09	2000 3		LIGHTING: FITNESS ROOM 04 900 3	
RECEPT: MECH. 09 360 5 20A 6 · SPARE	RECEPT: A/V ROOM 2000 5 30A		SPARE · 5 20A	
RECEPT: FITNESS 05 360 7 20A 8 360 RECEPT: FITNESS 05	2000 7		LIGHTING: WOMEN'S RESTROOM 01 845 7	8 60 LIGHTING: VESTIBULE VOO
RECEPT: STORAGE 05A 900 9 20A 0 20A 10 360 RECEPT: FITNESS 05	RECEPT: A/V ROOM 2000 9 30A	20A 10 1000 RECEPT: A/V ROOM FOR RACK	SPACE · 9 20A	
RECEPT: FITNESS 05 360 11 20A 12 1000 J-BOX DOOR	2000 11		SPACE · 11 20A	20A 12 · SPACE
SPARE · 13 20A 20A 14 360 RECEPT: JANITOR 08			SPACE · 13 <u>20A</u>	
RECEPT: DRINKING FOUNTAIN 180 15 20A 16 900 RECEPT: JANITOR 08	RECEPT: A/V ROOM 1000 15 20A		SPACE · 15 20A	
RECEPT: WIEGHT EQUIPMENT ROOM 720 17 20A 20A 18 720 RECEPT: WIEGHT EQUIPMENT ROOM	RECEPT: TV WEIGHT EQUIPMENT ROOM 600 17 20A		SPACE · 17 20A	
RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200 19 20A 20 1200 RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM	RECEPT: TV WEIGHT EQUIPMENT ROOM 600 19 20A	_	SPACE · 19 20A	
RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200 21 200 20 20 20 20 20 20 20 20 20 20 20 20	RECEPT: TV WEIGHT EQUIPMENT ROOM 600 21 20A	20A 22 600 RECEPT: TV WEIGHT EQUIPMENT ROOM	SPACE · 21 20A	20A 22 · SPACE
RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200 23 20A 24 1200 RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM	RECEPT: TV WEIGHT EQUIPMENT ROOM 600 23 20A	20A 24 600 RECEPT: TV LOUNGE	SPACE · 23 20A	
RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200 25 20A 26 1200 RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM	RECEPT: TV LOUNGE 600 25 20A		SPACE · 25 20A	20A 26 · SPACE
RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200 27 20A 20A 28 1200 RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM	RECEPT: TV LOUNGE 600 27 20A	20A 28 1080 HP-6 AND AHU-6	SPACE · 27 20A	20A 28 · SPACE
RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200 29 20A 30 1200 RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM	RECEPT: TV FITNESS ROOM 04 600 29 20A		SPACE · 29 20A	20A 30 · SPACE
RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200 31 20A 32 1200 RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM	RECEPT: TV FITNESS ROOM 04 600 31 20A	32 600 FIRE ALARM CONTROL PANEL (FACP)	SPACE SPACE 31	_ 32 SPACE SPACE
RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200 33 20A 34 1200 RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 20A 36 · SPARE	RECEPT: TV FITNESS ROOM 04 600 33 20A	34 1200 ACCESS CONTROL PANEL 36 1200 RECEPT: STORAGE FOR RACK	SPACE SPACE 33	_ 34 SPACE SPACE
WON DOOR OPERATOR 1200 35 20A 20A 36 · SPARE	RECEPT: TV FITNESS ROOM 05 600 35 20A	20A 36 1200 RECEPT: STORAGE FOR RACK	SPACE SPACE 35	_ 36 SPACE SPACE
1200 37 SPARE 39 20A 38 SPARE 40 SPARE	RECEPT: TV FITNESS ROOM 05 600 37 20A RECEPT: TV VESTIBULE V000 600 39 20A	20A 38 180 EMERGENCY CALL SYSTEM CONTROL PANEL	SPACE SPACE 37	_ 38 SPACE SPACE
SPARE . 39 20A 6 20A 40 . SPARE	RECEPT: TV VESTIBULE V000 600 39 20A	20A 40 · SPARE	SPACE SPACE 39	_ 40 SPACE SPACE
SPARE 41 20A 60 20A 42 SPARE SPARE 43 20A 60 20A 44 SPARE	SPARE · 41 20A	20A 42 · SPARE	SPACE SPACE 41	_ 42 SPACE SPACE
SPARE . 43 20A 6 20A 44 . SPARE	SPARE · 43 20A	20A 44 · SPARE	<u> </u>	
SPARE . 45 20A 60 20A 46 . SPARE SPARE . 47 30A 60 20A 48 . SPARE	SPARE · 45 20A	20A 46 · SPARE	<u> </u>	
SPARE . 47 30A 6 20A 48 . SPARE	SPARE · 47 20A	20A 48 · SPARE	<u> </u>	
· 49 <u>-6 20A</u> 50 · SPARE	SPARE · 49 20A	50 200 SURGE SUPPRESSOR (240KA RATING)	<u> </u>	
WATER HEATER WH-2 3000 51 49 40A 40A 50 SPARE 50 HP-6 & AHU-6	SPARE · 51 20A	52 200	<u> </u>	
3000 53 54 1080	SPARE . 53 20A	54 200	<u> </u>	
TOTAL CONNECTED LOAD: 42.7 KW ALL BRANCH BREAKERS SIZED AS SHOWN	TOTAL CONNECTED LOAD: 42 KW	ALL BRANCH BREAKERS SIZED AS SHOWN	TOTAL CONNECTED LOAD: 4.4 KW	ALL BRANCH BREAKERS SIZED AS SHOWN
PANEL LOCATION: MECHANICAL ROOM	PANEL LOCATION: A/V ROOM		PANEL LOCATION: STORAGE ROOM	

_ 120/208 PANEL LP1				120/208 PANEL PP2					
120/208Y VOLT, 3 PHASE, 4 WIRE, 60HZ, 22K AIC			NEMA 1 SURFACE MOUNT	120/208Y VOLT, 3 PHASE, 4 WIRE, 60HZ, 22K AIC	•				NEMA 1 SURFACE MOUNT - 2 SECTION
LOCATION LOAD CIRCU (VA) NUMB		CIRCUIT LOAD NUMBER (VA)	LOCATION	LOCATION LOAD (VA)	CIRCUIT NUMBER		CIRCUIT NUMBER	LOAD (VA)	LOCATION
	L1 L2 L3 100 AMP MAIN LUGS					L1 L2 L3 400 AMP MAIN LUGS			
NOTE 1 — LIGHTING: EXTERIOR 360 1	20A 20A	2 622	LIGHTING: MECHANICAL 09	RECEPT: FITNESS ROOM 4 360	1	20A 20A		360	RECEPT: FITNESS ROOM 4
LIGHTING: ELEC. 07, STOR. 05A, A/V 06, JAN. 08 750 3	20A 20A	4 900	LIGHTING: FITNESS ROOM 05	RECEPT: STORAGE 04A 360	3	20A 20A	4	540	RECEPT: STORAGE 04A
LIGHTING: WEIGHT EQUIPMENT 00A 1176 5	20A 20A	6 900	LIGHTING: FITNESS ROOM 05	RECEPT: STORAGE 04A 540	5	20A 20A	6	720	RECEPT: WIEGHT EQUIPMENT ROOM
1176 7	20A 20A	8 1176	LIGHTING: WEIGHT EQUIPMENT OOA	RECEPT: CONSULT 03A 540	7	20A 20A	. 8	360	RECEPT: BREAKROOM 03
LIGHTING: WEIGHT EQUIPMENT 00A 1176 9	20A 20A	10 1176	1	RECEPT: BREAKROOM 03 360	9	20A 20A	10	600	RECEPT: REFRIGERATOR BREAKROOM 03
1176 11	20A 20A		LIGHTING: WEIGHT EQUIPMENT OOA	RECEPT: ICE MACHINE BREAKROOM 03 600	11	20A 20A	12	180	RECEPT: BREAKROOM 03
SPARE · 13	20A	14 1176		RECEPT: BREAKROOM 03 180	13	20A 20A		180	RECEPT: BREAKROOM 03
TIME CLOCK AND CONTACTOR 200 15		16 456	OVERHEAD AIRFOIL FAN	RECEPT: DRINKING FOUNTAIN WEIGHT ROOM 180	15	20A 20A		180	RECEPT: MEN'S 02
POLE LIGHTING 560 17	20A 20A	18 456	OVERHEAD AIRFOIL FAN	RECEPT: MEN'S 02 360	17	20A 20A	18	720	RECEPT: LOUNGE
NOTE 1 – FUTURE EXTERIOR LIGHTING 600 19		20 .	SPARE	RECEPT: WOMEN'S 01 360	19	20A 20A	20	180	RECEPT: WOMEN'S 01
NOTE 1 – FUTURE EXTERIOR LIGHTING 600 19	20A 20A	22 .	SPARE	RECEPT: WEIGHT EQUIPMENT ROOM 720	21	20A 20A		1080	RECEPT: WOMEN'S OT RECEPT: LOUNGE OOB
	20A 20A				 				
NOTE 1 — FUTURE EXTERIOR LIGHTING 600 23		24 ·	SPARE	RECEPT: LOUNGE 00B, CHECK-IN 00 540	23	20A 20A	. 24	360	RECEPT: CHECK-IN 00
SPARE · 25	20A 20A	26	SPARE	RECEPT: CHECK-IN 00 360	25	20A 20A	26	180	RECEPT: VESTIBULE V00
SPARE · 27		28 ·	SPARE	RECEPT: EXTERIOR SOUTH 360	27	20A 20A		360	RECEPT: FITNESS ROOM
SPARE · 29	20A 20A	30 ·	SPARE	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	29	20A 20A	. 30	1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
SPACE · 31	<u> </u>	32 ·	SPACE	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	31	20A 20A	. 32	1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
SPACE · 33	<u> </u>	34 ·	SPACE	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	33	20A 20A		1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
SPACE · 35	5	36 ·	SPACE	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	35	20A 20A		1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
SPACE · 37	<u>'</u>	38 ·	SPACE	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	37	20A 20A	. 38	1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
SPACE · 39	9	40 ·	SPACE	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	39	20A 20A		1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
SPACE · 41	<u></u> _	42 ·	SPACE	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	41	20A 6 20A	. 42	1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
				RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	43	20A 20A	. 44	1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
				RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	45	20A 6 20A	46	1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
				RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	47	20A 20A	. 48	1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
				RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	49	20A 20A	50	1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
				RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM 1200	51	20A 20A		1200	RECEPT: FLOOR, WIEGHT EQUIPMENT ROOM
				SF-1 100	53	20A 20A	_	180	RECEPT: AT HP-5
TOTAL CONNECTED LOAD: 16.4 KW		ALL BRANCH BRE	EAKERS SIZED AS SHOWN	SPARE ·	55	20A 20A			SPARE
				SPARE ·	57	20A 20A			SPARE
PANEL LOCATION: MECHANICAL ROOM				SPARE ·	59	20A 20A			SPARE
NOTE 1. PROVIDE TIME CLOCK CONTACTOR CONTROL OF THIS CIRCUIT, SEE WIRING DIAGRAM E400.				GRINDER PUMP - GP 3360	61	60A 20A			SPARE
				3360	63	20A			SPARE
				NOTE 1 — SUANA HEATER 5000	65	60A 20A			
				5000	67	60A		5000	SUANA HEATER — NOTE 1
				5000	69			5000	1.3.2
				WATER HEATER WH-1 2250	71	30A	I	5000	
				2250	73	35A		2000	HP-5
				AHU-5 3500	75	1 404		2000	··· ·
				3500	77	4UA6 1 8 6 3 20A	78		SPARE
				SPARE ·	79	20A 20A			SPARE
				SPARE ·	81	20A 20A			SPARE
				SITULE	<u> </u>	0 0		<u> </u>	
				TOTAL CONNECTED LOAD: 90.3 KW			ALL BI	RANCH BRI	EAKERS SIZED AS SHOWN
				PANEL LOCATION: STORAGE ROOM					



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205-323-6385
ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER
GULF STATES ENGINEERING
600 AZALEA ROAD,
MOBILE, AL 36609

ATTN: CHRIS DEARMON / VAN SIMPSON

FIRE PROTECTION ENGINEER
GULF STATES ENGINEERING
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251-460-4646
ATTN: TOM WADE / BRIAN DOVE

251-460-4646

ELECTRICAL ENGINEER
GULF STATES ENGINEERING
600 AZALEA ROAD,
MOBILE, AL 36609
251-460-4646
ATTN: JERRY ONWU / SID SNYDER

REV DATE DESCRIPTION

02-14-2020 100% BID DOCUMENTS

DAVIS ARCHITECTS

PANEL SCHEDULES

E401 PANEL SCHEDULES

SCALE: NONE

FIRE SPRINKLER NOTES

- 1. PROVIDE A NEW WET PIPE FIRE SPRINKLER SYSTEM THROUGHOUT THE BUILDING AS INDICATED ON THE DRAWINGS TO INCLUDE OVERHANGS AND CANOPIES IN ACCORDANCE WITH NFPA 13 - 2016 EDITION, THE CITY OF ORANGE BEACH'S FIRE CODE, AND LOCAL ORDINANANCES.
- 2. BACKFLOW WILL BE INCUDED IN THE RISER AND PROVIDED WITH BACKFLOW TEST CONNECTIONS, MINIMUM OF 1 PER 250 GPM OF SPRINKLER DEMAND OR
- 3. FIRE DEPARTMENT CONNECTION LOCATION TO BE COORDINATED WITH ORANGE BEACH FIRE DEPARTMENT.
- 4. SPRINKLER CONTRACTOR TO HAVE A SPRINKLER CONTRACTORS LICENSE ISSUED BY THE STATE OF ALABAMA FOR A MINIMUM OF 5 YEARS. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO BE DONE BY A TECHNICIAN WITH A MINIMUM OF A NICET LEVEL III IN WATER BASED SYSTEMS.
- 5. SPRINKLER CONTRACTOR SCOPE OF WORK TO INCLUDE SYSTEM FROM THE LEAD-IN STUB UP TO THE MOST REMOTE POINTS OF THE SYSTEM.
- 6. SYSTEM SHOWN IS FOR BIDDING PURPOSES AND TO REFLECT MINIMUM REQUIREMENTS. CONTRACTOR TO PROVIDE SHOP DRAWINGS, HYDRAULIC CALCULATIONS AND INSTALL IN ACCORDANCE WITH NFPA 13 AND LOCAL REQUIREMENTS.
- 7. HYDRAULIC CALCULATIONS TO BE BASED ON WATER FLOW TEST OF CITY MAIN IN STREET. FLOW TEST TO BE CONDUCTED BY CONTRACTOR WITHIN 6 MONTHS OF PROJECT START DATE. DESIGN DENSITIES TO BE AS REFLECTED ON THE DRAWINGS.
- 8. COORDINATE AND OR OBTAIN PERMITS AND TESTING WITH THE AHJ.
- 9. ALL ABOVE GROUND PIPING TO BE SIZED PER HYDRAULIC CALCULATIONS WITH A MAXIMUM WATER VELOCITY OF 20 FPS.
- 10. ALL VALVES TO BE WITHIN 7 FEET AFF.
- 11. ALL GROOVED FITTINGS AND COUPLINGS TO BE SAME MANUFACTURER.

FROM MANUFACTURER CLEARLY ANNOTATED ON THE DRAWINGS.

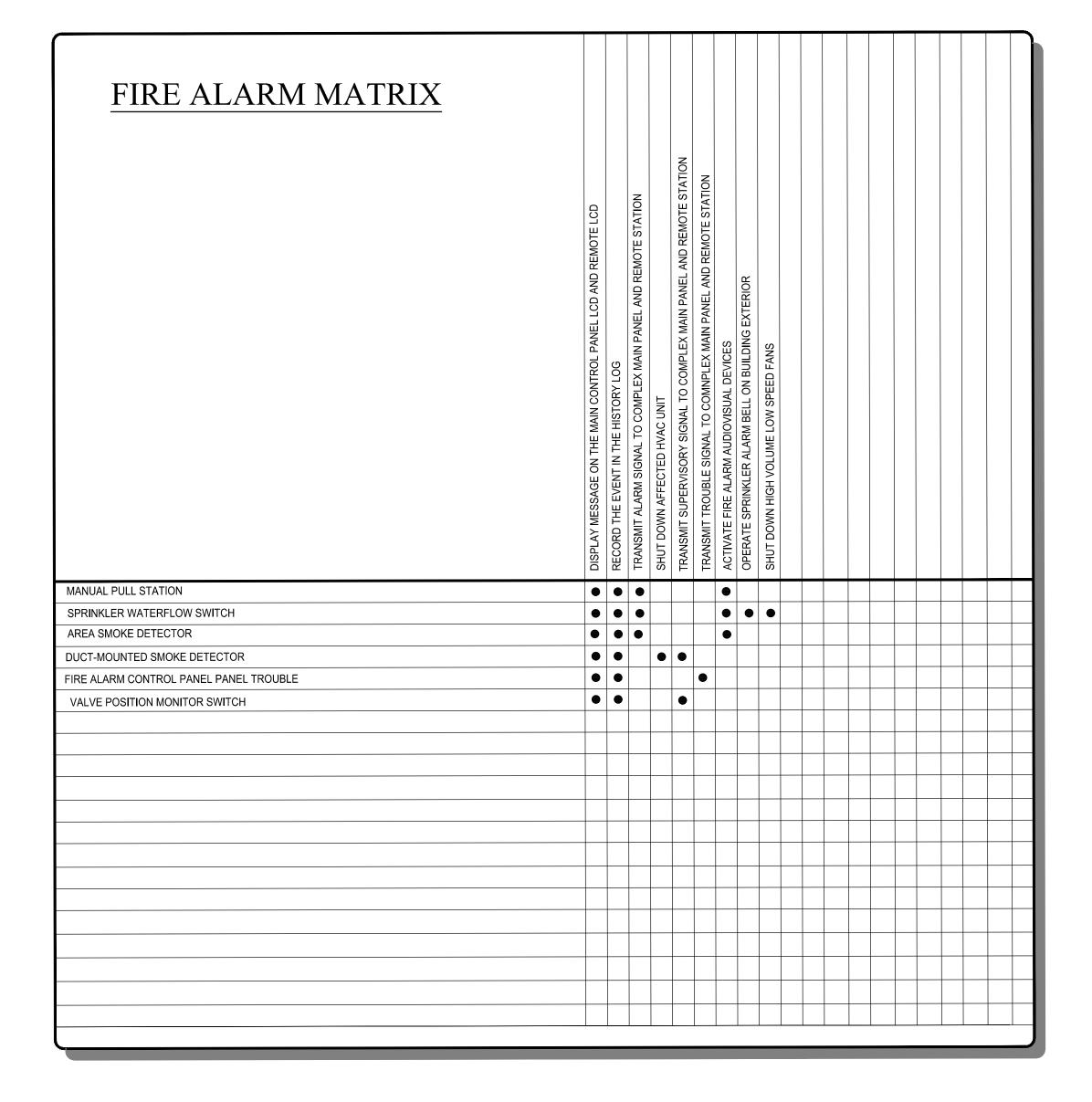
- 12. PROVIDE A HYDROSTATIC TEST OF THE NEW SYSTEM @ 200 PSI FOR TWO HOURS PER NFPA 13. COORDINATE WITH AHJ FOR WITNESSING.
- 13. ALL ABOVEGROUND PIPE 2" AND SMALLER TO BE THREADED, BLACK STEEL SCHEDULE 40.
- 14. ALL ABOVEGROUND PIPE 2 1/2 " AND LARGER TO BE ROLL GROOVE/ WELDED, BLACK STEEL MINIMUM SCHEDULE 10. 15. IF FLEXIBLE PIPING IS USED, SHOP DRAWINGS SHALL CONTAIN COMPLETE INFORMATION TO INCLUDE MANUFACTURER, MODEL TYPE AND FRICTION LOSS DATA
- 16. SEAL ALL PENETRATIONS TO MATCH CONSTRUCTION AND FIRE RATING. SLEEVE ALL MASONRY PENETRATIONS AND PROVIDE 1" ANNULAR SPACE TO SLEEVE AROUND THE CIRCUMFERENCE OF THE PIPE.
- 17. PROVIDE FREEZE PROTECTION FOR WET PIPE EXPOSED TO THE EXTERIOR.
- 18. HANGERS SHALL BE SPACED AND PLACED IN ACCORDANCE WITH NFPA-13.
- 19. PROVIDE INSPECTOR'S TEST CONNECTION WITH PRESSURE RELIEF AS REQUIRED BY NFPA 13. LOCATE IN ACCESSIBLE LOCATION WITHIN 7 FEET AFF.
- 20. ROUTE ALL DRAINS AND TEST CONNECTIONS TO THE EXTERIOR, DISCHARGE WITHIN 1FOOT OF FINISHED GRADE, PROVIDE SPLASH PADS. DO NOT
- 21. COORDINATE WITH OTHER TRADES TO MAINTAIN REQUIRED CLEARANCES TO OTHER EQUIPMENT.
- 22. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.

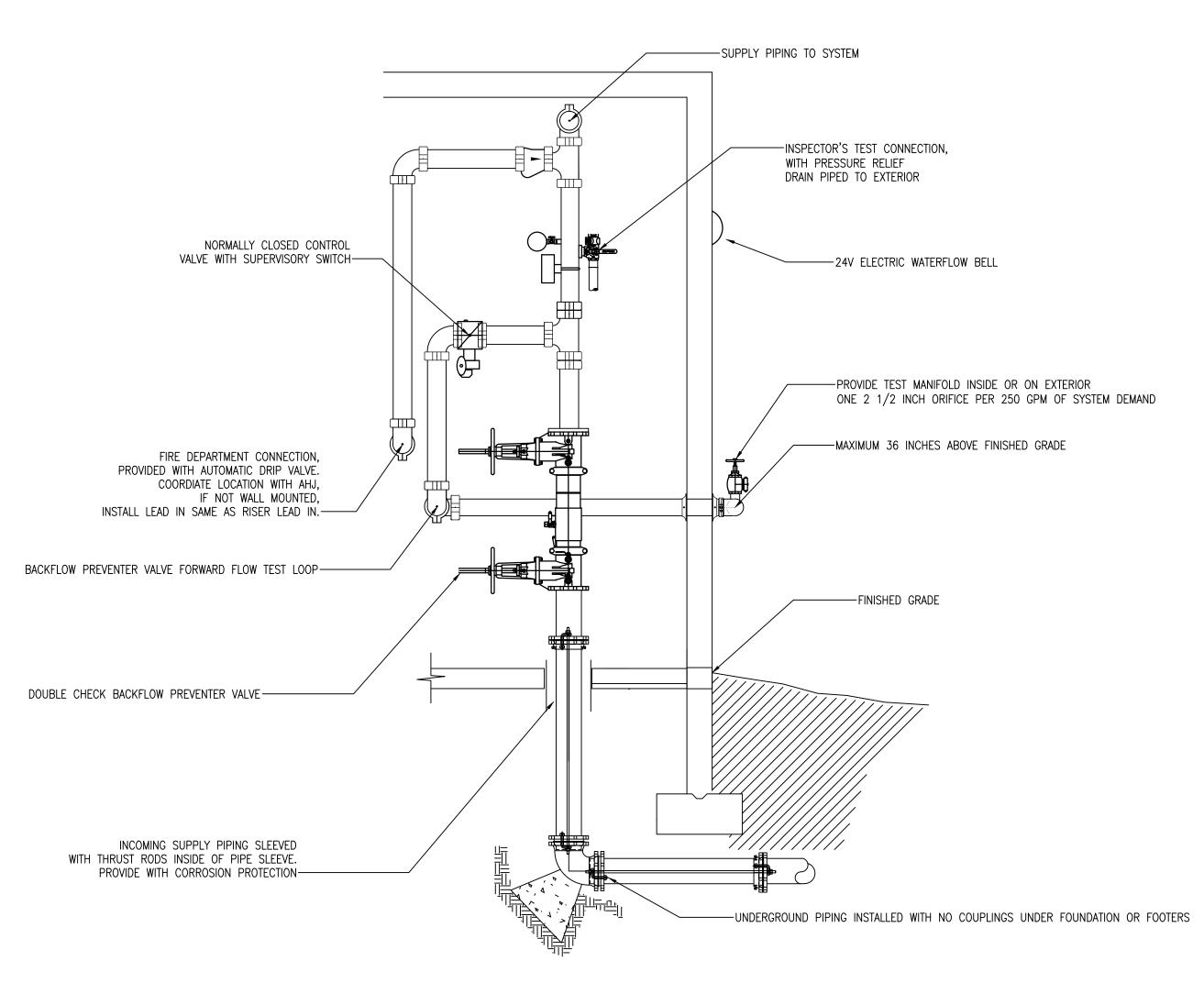
DISCHARGE ON WALKWAYS.

- 23. CONTRACTOR TO COORDINATE ALL TIE INS WITH OWNER. SHUT DOWN OF EXISTING WATER SUPPLY SYSTEM TO BE COORDINATED WITH OWNER AFTER APPROVAL OF AHJ.
- 24. SPRINKLERS TO BE INSTALLED CENTER TILE IN TWO DIRECTIONS.
- 25. PROVIDE BRASS UPRIGHT ½ INCH, 5.6 k SPRINKLERS WITH GLASS BULB ELEMENTS AND SPRINKLER GAURDS IN UNFINISHED AREAS.
- 26. PROVIDE CHROME SEMI RECESSED PENDENT ½ INCH, 5.6K SPRINKLERS WITH GLASS BULB ELEMENTS IN CEILINGS.
- 27. PROVIDE LISTED HIGH TEMPERATURE CORRSION RESISTANT HEADS IN SAUNA'S. 28. WHERE IN THE LIMITATIONS OF THE LISTING, PROVIDE DRY TYPE HORIZONTAL SIDEWALL SPRINKLERS FOR ANY EXTERIOR PORCHES AND CANOPIES
- REQUIRED BY NFPA 13 OR AHJ, TYCO SERIES DS-3 OR EQUAL. 29. PROVIDE SPARE HEADS AS REQUIRED BY NFPA 13 WITH A MINIMUM OF 2 PER EACH TYPE INSTALLED. INCLUDE MANUFACTURER'S SPRINKLER WRENCH. STORE IN SPRINKLER HEAD BOX MOUNTED ADJACENT TO THE EXTERIOR LEAD-IN RISER.
- 30. ANTI FREEZE SYSTEMS NOT PERMITTED. 31. PROVIDE A MINIMUM OF 6 INCHES CLEAR WHERE RISER ABUTS WALLS. PROVIDE A MINIMUM OF 3 FEET CLEARANCE IN FRONT OF RISER/BACKFLOW.
- 32. WORK INCLUDES PAINTING EXPOSED PIPE IN FINISHED AREAS. COORDINATE COLOR WITH ARCHITECT.
- 33. CONTRACTOR IS ADVISED THAT HIGH VOLUME LOW SPEED FANS ARE INCLUDED IN THE PROJECT AND SPRINKLERS SHALL BE SPACED AROUND THEM IN
- ACCORDANCE WITH 11.1.7 OF NFPA 13 2016 EDITION. COORDINATE ALL REQUIRED CLEARANCES WITH OTHER TRADES.
- 34. PROVIDE 24V WATERFLOW BELL ON EXTERIOR, WIRING BY OTHERS.

FIRE ALARM NOTES

- 1. CONTRACTOR SHALL PROVIDE A NEW MANUAL FIRE ALARM SYSTEM TO INCLUDE SUPERVISION OF THE TAMPER(S) AND FLOW SWITCH ON THE SPRINKLER RISER.
- 2. SYSTEM SHALL NETWORK WITH THE EXISTING FIRE ALARM SYSTEM FOR THE COMPLEX.
- 3. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS IS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
- 4. SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT THE FIRE PROTECTION ENGINEER IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE.
- 5. CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE
- RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE.
- 6. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO SUBMISSION FOR PERMIT. SUBMITTAL PACKAGE TO BE IN COMPLETE COMPLIANCE WITH SECTION 907 OF THE INTERNATIONAL FIRE CODE - 2015 EDITION. A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION.
- 7. THE POWER CIRCUIT TO THE FIRE ALARM POWER SUPPIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER. CIRCUIT BREAKER SHALL HAVE A RED MARKING, LOC-ON PROVISIONS AND SHALL BE IDENTIFIED AS ?FIRE ALARM CIRCUIT CONTROL?. THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. THIS REQUIREMENT APPLIES TO ALL NAC CIRCUIT EXTENDER PANELS. OBTAINING
- POWER FROM THE FIRE ALARM POWER CIRCUIT IS PERMITTED IF THE LOAD ALLOWS. 8. UPDATE THE AS-BUILT DRAWINGS DAILY WITH THE JOB PROGRESS. RETURN THE AS-BUILT DRAWING SET TO THE GENERAL CONTRACTOR NO LATER THAN 7 DAYS AFTER THE SUCCESSFUL FINAL TEST.
- 9. THE CONTRACTOR WILL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMANLIKE MANNER.
- 10. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED TECHNICAL REPRESENTATIVE. 11. ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO
- DIRT CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM INSTALLER.
- 12. THE FIRE ALARM INSTALLER WILL MAINTAIN THE FIRE RESISTANCE INTEGRITY OF ALL WALL, CEILING, AND ROOF ANY TIME THAT WORK IS NOT ACTIVELY BEING PERFORMED.
- 13. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANC E WITH THE MANUFACTURER'S INSTRUCTIONS AND NEC. 14. FIRE ALARM CIRCUITS SHALL BE IDENTIFIED IN ACCORDANCE WITH APPRORIATE SECTION OF THE NEC 760. MARK ALL FIRE ALARM WIRES IN ACCORDANCE WITH NEC 760
- SECTIONS FOR POWER LIMITED AND NON-POWER LIMITED WIRE. 15. FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUM AND OTHER SPACES USED FOR ENVIRENMENTAL AIR SHALL BE TYPE FPLP.
- 16. FIRE ALARM CABLE INSTALLED IN THE VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL RUNS IN SHAFTS SHALL BE TYPE
- 17. FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT, OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS. 18. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUNNING OUTDOOR SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 725, AND 800
- 19. ALL WIRING INCLUDING SHEILDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
- 20. ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY FOR THE FULL LENGTH OF THE WIRE.
- 21. ONLY SYSTEM WIRIING CAN BE RUN IN THE SAME CONDUIT.
- 22. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
- 23. MAITAIN 40 PERCENT CONDUIT FILL RATIOS AS PER NEC REQUIREMENTS.
- 24. ALL WIRES SHALL BE PULLED SPLICE FREE AND SHALL TERMINATE ON SCREW TERMINALS AT DEVICES OR PANELS.
- 25. ALL WIRING SHALL BE SOLID COPPER AND INSTALLED IN CONDUIT. INSTALLATION TO COMPLY WITH NFPA 70 (NEC). 26. PROVIDE NEW CONDUIT THAT IS A MINIMUM OF ? INCH THAT HAS A FACTORY APPLIED RED FINISH.
- 27. PROVIDE DUCT DETECTORS. INCLUDE SUPERVISION AND RELAYS TO SHUT DOWN THE AIR HANDLER WHEN ITS DETECTOR INITIATES ALARM.
- 28. CONTRACTOR IS ADVISED THAT HIGH VOLUME LOW SPEED FANS ARE INCLUDED IN THE PROJECT. PROVIDE SHUTDOWN UPON WATER FLOW.





SPRINKLER RISER DETAIL

5 6 7 8 9 10 11 12 13 14 15 16



ORANGE BEACH RECREATION COMPLEX NEW ADULT FITNESS CENTER



CITY OF ORANGE BEACH; ORANGE BEACH, AL

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FIRE PROTECTION LEGENDS. NOTES SCHEDULES

F100

