ICHETUCKNEE SPRINGS STATE PARK

DISTRICT 2

COLUMBIA COUNTY

REPLACE RESTROOM

FDEP PROJECT # 61363C

SITE ADDRESS: 12087 SOUTHWEST U.S. 27
FORT WHITE, FL 32038

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.H.U.	AIR HANDLING UNIT
ALUM.	ALUMINUM
ALT.	ALTERNATE
APPROX.	APPROXIMATE
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BLT.	BUILT
BRK.	BRICK
BRKR.	BREAKER
BSMT.	BASEMENT
C.J.	CONTROL JOINT
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
CONC.	CONCRETE
CU	COPPER
CU. FT.	CUBIC FOOT
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DIA./Ø	DIAMETER
DBL	DOUBLE
DBT	DRY-BULB TEMPERATURE
DEG.	DEGREE
DEPT.	DEPARTMENT
DF	DRINKING FOUNTAIN
DISC.	DISCONNECT
DL	DEAD LOAD
DN.	DOWN
D.S.	DOWN SPOUT
DWG	DRAWING
E.F.	EXHAUST FAN
EXH	EXHAUST
EXP. JT.	EXPANSION JOINT
EXT.	EXTERIOR
FIN	FINISH
FL.	FLOOR
FLUOR.	FLUORESCENT
FP	FIREPLACE
FR	FIRE RATING
FT.	FOOT/FEET
FTG.	FOOTING
GALV.	GALVANIZED
GFI	GROUND FAULT
	CIRCUIT INTERRUPT
GOV'T.	GOVERNMENT
GR.FL.	GROUND FLOOR
GYP.	GYPSUM
H.C.	HOLLOW CORE
H.D.G.	HOT DIPPED GALVANIZED
HDR	HEADER
HDWR.	HARDWARE
H.P.	HORSEPOWER
HT.	HEIGHT
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWY	HIGHWAY
ID	INSIDE DIAMETER
IN	INCH
INCAND.	INCANDESCENT
INCL.	INCLUDED
INSUL.	INSULATION
INT.	INTERIOR
INV. EL.	INVERT ELEVATION
JST.	JOIST
KD	KILN DRIED
KW	KILOWATT
KWH	KILOWATT HOUR
LAM.	LAMINATED
LAV.	LAVATORY
LB.	POUND
LTG.	LIGHTING
LGTH.	LENGTH
LIN.	LINEAR
LL	LIVE LOAD
MANUF.	MANUFACTURE
MAX.	MAXIMUM
MF.	MILL FINISH
MIN.	MINIMUM
MLDG.	MOLDING
MHW	MEAN HIGH WATER
MHHW	MEAN HIGHER HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MSL	MEAN SEA LEVEL
MOD.	MODIFICATION
NTS.	NOT TO SCALE
NO./#	NUMBER
OA	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFC.	OFFICE
O/H	OVER HEAD
OPP.	OPPOSITE
PARTN.	PARTITION
PC	PORTLAND CEMENT
PCF	POUNDS PER CUBIC FOOT
P.E.	PROFESSIONAL ENGINEER
PERF.	PERFORATE
PERP.	PERPENDICULAR
PL.	PLATE
PLG.	PILING
PLYWD.	PLYWOOD
PNL	PANEL
PREFAB.	PREFABRICATED
PRELIM.	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
QS	QUARTER SAWN
R	RADIUS
RCPT.	RECEPTACLE
REBAR	REINFORCING BAR
REFRIG.	REFRIGERATION
REINF.	REINFORCING
RFG	ROOFING
RGH	ROUGH
RM	ROOM
R.O.	ROUGH OPENING
RS	ROUGH SAWN
S.C.	SOLID CORE
SCH	SCHEDULE
SDG	SIDING
SECT	SECTION
SFTWD.	SOFTWOOD
SGD	SLIDING GLASS DOOR
SHG	SHINGLES
SPEC	SPECIFICATION
SPR	SPRUCE
SQ.	SQUARE
SQ. FT.	SQUARE FOOT
SQ. IN.	SQUARE INCH
SQ. YD.	SQUARE YARD
SS	STAINLESS STEEL
STL	STEEL
SUB. FL.	SUBFLOOR
SUP.	SUPPLY
SW.	SWITCH
SYM.	SYMMETRICAL
S.Y.P.	SOUTHERN YELLOW PINE
SYS.	SYSTEM
S4S	SURFACED FOUR SIDES
TEL.	TELEPHONE
T&G	TONGUE-AND-GROOVE
TYP.	TYPICAL
U.E.	UNDERGROUND ELECTRIC
U.G.	UNDER GROUND
UL	UNDERWRITERS LABORATORIES, INC.
V	VOLT
VENT.	VENTILATOR
VERT.	VERTICAL
VF	VERIFY IN FIELD
VOL.	VOLUME
VP	VENT PIPE
VTR	VENT THRU ROOF
W	WATER
WBT	WET BULB TEMPERATURE
WC	WATER CLOSET
WD	WOOD
WP	WATERPROOF
WWF	WELDED WIRE FABRIC
YD.	YARD

REFERENCE LEGEND

G8 / A502 — SECTION IDENTIFICATION / SHEET NUMBER

G8 / A502 — DETAIL IDENTIFICATION / SHEET NUMBER

APPLICABLE CODES AND DESIGN DATA

CODE LIST

FLORIDA BUILDING CODE, BUILDING (FBC-B)..... 2020 Edition
FLORIDA BUILDING CODE, FUEL GAS (FBC-FG)..... 2020 Edition
FLORIDA BUILDING CODE, MECHANICAL (FBC-M)..... 2020 Edition
FLORIDA BUILDING CODE, PLUMBING (FBC-P)..... 2020 Edition
FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB)..... 2020 Edition
FLORIDA BUILDING CODE, RESIDENTIAL (FBC-R)..... 2020 Edition
FLORIDA FIRE PREVENTION CODE (FFPC)..... 2020 Edition
NATIONAL ELECTRICAL CODE NFPA-70..... 2017 Edition
FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONST. ..... Latest Edition
FDOT DESIGN STANDARDS..... Latest Edition
FLORIDA ACCESSIBILITY CODE..... 2020 Edition

DESIGN DATA

CONSTRUCTION TYPE: TYPE II-B NON SPRINKLERED
OCCUPANCY CLASS: FBC GROUP B BUSINESS
OCCUPANT LOAD: 10 PERSONS
TOTAL EXITS: N/A
SQ FT ALTERED AREA N/A

TOTAL BUILDING AREA PER FLOOR: 1,115 GSF
BUILDING HEIGHT/NUMBER OF STORIES: 1
REQUIRED SPRINKLER OR ALARM SYSTEM: No
NUMBER OF BEDROOMS: N/A
LEVEL OF ALTERATION: N/A

DESIGN LOADS (FBC-B CHAPTER 16):
20 PSF

WIND LOADS (FBC-B SECTION 1609):
120 MPH

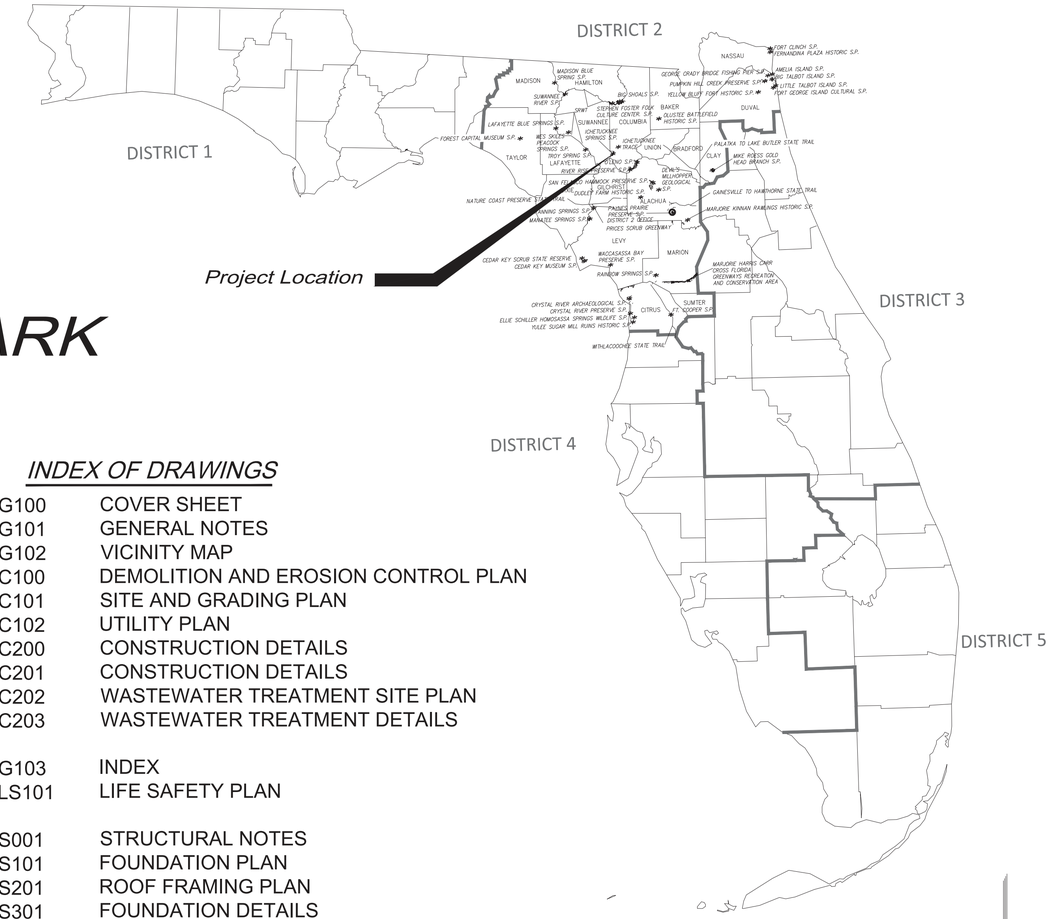
SCOPE OF PROJECT

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION, AND PERMITTING TO CONSTRUCT NEW RESTROOM AND ASSOCIATED UTILITIES.

DRMP
DESIGNER

CN225
CONSULTANT CONTRACT No.

8/7/2023
INITIAL ISSUE DATE



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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Digitally signed by Benjamin R Lennon
Date: 2023.08.14 11:20:25-04'00'

BENJAMIN R. LENNON
LICENSE
No. 78674
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.:

G100 COVER SHEET
G101 GENERAL NOTES
G102 VICINITY MAP
C100 DEMOLITION AND EROSION CONTROL PLAN
C101 SITE AND GRADING PLAN
C102 UTILITY PLAN
C200 CONSTRUCTION DETAILS
C201 CONSTRUCTION DETAILS

ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

P:\Projects\14-0210.038_(TA38)_Ichetucknee_Restroom\CADD\14-0210.038_(TA38)_COVER.dwg

100% DESIGN

Florida Department of Environmental Protection

Division of Recreation and Parks Bureau of Design and Construction

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH FDOT DESIGN STANDARDS (LATEST EDITION) AND THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
2. IF CONTRACTOR OR THEIR SUBCONTRACTORS DO NOT COMPLY WITH THE REQUIREMENTS OF THESE GENERAL NOTES, SPECIFICATIONS OR AGREEMENT BETWEEN OWNER AND CONTRACTOR, OWNER MAY, BUT IS NOT REQUIRED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH REQUIREMENTS OF THESE GENERAL NOTES WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE, OR WITHIN THE TIME OF ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.
3. THE PROJECT DESIGN HAS BEEN BASED UPON FIELD SURVEYS AND SITE VISITS BY J. BROWN PROFESSIONAL GROUP.
4. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUBSURFACE CONDITIONS, LIMITS OF CONSTRUCTION, WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY EFFECT THE SUCCESSFUL COMPLETION OF THE PROJECT, PRIOR TO THE COMMENCEMENT OF WORK. IF CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS OR SPECIFICATIONS, HE SHALL IMMEDIATELY NOTIFY OWNER OR OWNER'S AGENT.
5. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS NOT PROVIDED, GIVE ALL NOTICES REQUIRED BY, AND COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS, AND PERMIT CONDITIONS BEARING ON THE EXECUTION OF PROJECT, AS DRAWN AND SPECIFIED. IF CONTRACTOR OBSERVES THAT THE DRAWINGS OR SPECIFICATION ARE IN VARIANCE WITH ANY APPLICABLE LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, HE SHALL TAKE ANY ACTIONS NECESSARY TO MITIGATE ANY POTENTIAL DAMAGE, AND PROMPTLY NOTIFY ENGINEER IN WRITING OF SUCH VARIANCE. ANY NECESSARY CHANGES TO THE DRAWING AND SPECIFICATIONS SHALL BE MADE IN ACCORDANCE WITH THE PROVISIONS OF THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE TO OWNER AND ENGINEER FOR THE ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY WORK UNDER THIS CONTRACT BETWEEN OWNER AND CONTRACTOR, FOR THIS PROJECT.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH ALL GOVERNMENTAL AGENCIES, DEPARTMENT OR BODIES, PUBLIC AND PRIVATE UTILITIES, CARRIERS OR SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ANY ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE OR TELEGRAPH FACILITIES, SUCH AS PAVEMENT, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED TO SUCH SERVICES, THAT ARE ENCOUNTERED DURING THE PROJECT, IN ORDER THAT SUCH ITEMS MAY BE PROPERLY PROTECTED, SUPPORTED OR RELOCATED AS NEEDED.
8. UNLESS OTHERWISE SPECIFIED IN THESE GENERAL CONDITIONS, SPECIFICATIONS OR IN THE AGREEMENT BETWEEN OWNER AND CONTRACTOR, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, SPECIFICATION AND APPLICABLE PERMITS, ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS, PERMIT CONDITIONS AND BUILDING AND SAFETY CODES BEARING ON THE EXECUTION OF THE PROJECT.
9. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC OR UTILITY RIGHT-OF-WAY OR EASEMENT, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMITS FROM THE APPLICABLE JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY OR EASEMENT. ADDITIONALLY, CONTRACTOR SHALL NOTIFY SUNSHINE STATE ONE CALL AT 1 (800) 432-4770 AT LEAST 72 HOURS PRIOR TO DIGGING OR OTHERWISE DISTURBING UTILITIES.
10. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, CONTROL POINTS, BENCHMARKS AND PROPERTY CORNERS. IN THE EVENT ANY REFERENCE MONUMENTS, CONTROL POINTS, BENCHMARKS OR PROPERTY CORNERS ARE DISTURBED, CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE SUCH.
11. THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS AND AGENCIES SHALL HAVE ACCESS TO THE PROJECT AT ALL TIMES. CONTRACTOR SHALL PROVIDE REASONABLE AND PROPER FACILITIES FOR SUCH ACCESS AND INSPECTION OF THE WORK.
12. CONTRACTOR SHALL COMPLY IN EVERY ASPECT WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) AS AMENDED AND ALL RULES, STATUTES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT. THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY OTHER APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS PERTAINING TO JOB SAFETY AND HEALTH, INCLUDING, BUT NOT LIMITED TO CFR 1910 AND 1926.
13. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE BUILDING AND SAFETY CODES, FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO, LAWFUL ORDERS OF ANY QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THE PROTECTION AGAINST INJURY, DAMAGE, OR LOSS TO PERSONNEL, EQUIPMENT OR MATERIALS, OR DESIGNED TO PROTECT THE ENVIRONMENT. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE AND REQUIRED SAFEGUARDS FOR THE SAFETY AND PROTECTION OF ALL PERSONNEL, EQUIPMENT OR MATERIALS, INCLUDING BUT NOT LIMITED TO, POSTING OF DANGER SIGNS AND OTHER WARNING AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND SAFETY REGULATIONS.
14. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REASONABLE AND PRUDENT PRECAUTIONS FOR THE SAFE AND SECURE PROTECTION OF ALL INCOMPLETE WORK, MATERIALS AND EQUIPMENT STORED ONSITE AND OFFSITE, AND ANY UNAUTHORIZED ACCESS TO SUCH.
15. CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, AND GUIDELINES AND RECOMMENDATIONS PERTAINING TO THE SAFE UTILIZATION OF ALL EQUIPMENT AND MATERIALS, AS PUBLISHED BY MANUFACTURER OR SUPPLIER.
16. PRIOR TO INITIATING ANY EXCAVATION (INCLUDING, BUT NOT LIMITED TO, TUNNELS, DITCHES, SWALES, STORMWATER PONDS, CANALS, OR ARTIFICIAL LAKES), CONTRACTOR SHALL REVIEW AND MAKE ARRANGEMENTS TO COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, (INCLUDING BUT NOT LIMITED TO CFR 1926 SUBPART P, OSHA DIRECTIVES CPL 2.69 AND 2.87 AND STATE OF FLORIDA DHR REQUIREMENTS) PERTAINING TO SAFE TRENCHING AND EXCAVATION. CONTRACTOR SHALL INSTALL ALL NECESSARY FENCES AND BARRIERS, AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO ENSURE THAT ACCESS TO EXCAVATIONS BY UNAUTHORIZED INDIVIDUALS IS PREVENTED.

GENERAL NOTES (CONT.)

17. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE AND REQUIRED PROTECTION TO PREVENT INJURY, DAMAGE OR LOSS TO:
    A. ALL INDIVIDUALS INCLUDING CONTRACTOR'S EMPLOYEES, AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, INSPECTORS AND ANY OTHER PERSONS PERFORMING ANY WORK UNDER A CONTRACT WITH THE CONTRACTOR;
    B. ALL THE WORK, MATERIALS AND EQUIPMENT TO BE INCORPORATED INTO THE FINAL PRODUCT, WHETHER IN STORAGE ONSITE OR OFFSITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF THE SUBCONTRACTORS; AND
    C. OTHER PROPERTY AT THE SITE OR ADJACENT TO THE SITE, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES NOT DESIGNATED FOR REMOVAL OR DEMOLITION DURING THE COURSE OF THE PROJECT.
    D. ALL DAMAGE OR LOSS TO ANY PROPERTY, UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER, CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, CONTRACTOR'S EMPLOYEES, ANY SUBCONTRACTORS OR THEIR AGENTS, EMPLOYEES OR OTHER PERSONS PERFORMING WORK UNDER A CONTRACT WITH THE CONTRACTOR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT FOR DAMAGE OR PROPERTY LOSS ATTRIBUTED SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER OR THE ENGINEER, OR ANY SUBCONTRACTORS OR THEIR AGENTS, EMPLOYEES OR OTHER PERSONS PERFORMING WORK FOR THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
18. ALL INJURY, DAMAGE OR LOSSES TO ANY PERSONNEL, EQUIPMENT, MATERIALS OR PROPERTY, AS NOTED IN THIS PARAGRAPH 18, CAUSED IN WHOLE OR IN PART, THROUGH FAULT OR NEGLIGENCE BY CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT FOR INJURY, DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS, ERRORS OR OMISSIONS OF OWNER, ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR THOSE ACTS ANY OF THEM MAY BE LIABLE AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
19. UNTIL THE FINAL ACCEPTANCE OF THE PROJECT BY OWNER, CONTRACTOR SHALL HAVE THE COMPLETE CHARGE AND CARE OF, AND SHALL BEAR ALL RISKS AND EXPENSES FOR ANY INJURY, DAMAGE OR LOSS, OR TO ANY PORTION OF THE WORK, ALL MATERIALS STORED ONSITE OR OFFSITE BY THE ACTION OF THE ELEMENTS, OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. CONTRACTOR SHALL BEAR ALL EXPENSES FOR ANY REPAIRS, REBUILDING OR RESTORATION, AND MAKE GOOD ALL INJURIES, DAMAGES OR LOSSES TO ANY PORTION OF THE WORK BEFORE FINAL ACCEPTANCE OF THE PROJECT BY OWNER.
20. CONTRACTOR SHALL NOT LOAD, CAUSE OR PERMIT ANY PART OF THE WORK TO BE LOADED SO AS TO ENDANGER SAFETY.
21. THOSE PARTS OF THE WORK IN PLACE, WHICH ARE SUBJECT TO DAMAGE, BECAUSE OF ACTIVITIES OR OPERATIONS BEING CARRIED OUT ADJACENT TO, SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY CONTRACTOR AT HIS EXPENSE.
22. PERMANENT OPENINGS USED AS THOROUGHFARES FOR THE INTRODUCTION OF WORK, PERSONNEL, EQUIPMENT AND/OR MATERIALS TO STRUCTURES SHALL HAVE HEADS, JAMBS AND SILLS WELL BLOCKED AND BOARDED BY THE CONTRACTOR. OWNER RETAINS THE AUTHORITY, BUT ASSUMES NO DUTY TO ESTABLISH STANDARDS OF PROTECTION, AND TO REVIEW THE EFFICIENCY OF PROTECTIVE MEASURES TAKEN BY CONTRACTOR.
23. ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMEN SERVICES SHALL BE FURNISHED AND MAINTAINED BY CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTER ONTO, EXITS FROM OR CROSSES TRAFFIC CARRYING ROADS.
24. CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COST, ATTORNEY'S FEES, EXPENSES, CAUSE OF ACTION, CLAIMS OR OTHER JUDGMENTS RESULTING FROM VIOLATIONS UNDER OSHA OR ANY RULES, STATUTES OR REGULATIONS PROMULGATED THERE UNDER, OR ANY FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF, OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF THE WORK OR WORK TO BE PERFORMED ON THIS PROJECT. CONTRACTOR SHALL INDEMNIFY OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES PAID OR INCURRED BY, OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENT AND EMPLOYEES. CONTRACTOR FURTHER AGREES IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL, STATE OR LOCAL SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF, OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF THE WORK, OR WORK TO BE PERFORMED ON THIS PROJECT, OWNER MAY IMMEDIATELY TAKE ALL ACTIONS DEEMED NECESSARY TO REMEDY THE CLAIMED VIOLATIONS. ANY AND ALL COST OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE SOLELY BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COST OR EXPENSES.
25. ALL WORK PERFORMED UNDER THIS CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE PERFORMANCE OF THE WORK SHALL CONFORM TO ALL APPLICABLE BUILDING AND SAFETY CODES, AND REGULATIONS OF ANY PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT INTERPRETATION OR REGULATION SHALL APPLY.
26. "HAZARDOUS MATERIALS" MEANS ANY SUBSTANCE WHICH:
    A. THE PRESENCE OF REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, OR
    B. IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE", "HAZARDOUS SUBSTANCE", POLLUTANT OR CONTAMINATE UNDER ANY PRESENT FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS OR AMENDMENTS, INCLUDING BUT NOT LIMITED TO, THE 1980 COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND/OR THE 1976 RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), OR
    C. IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE(S) IN WHICH THE PROJECT IS LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR
    D. THE PRESENCE OF ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR
    E. THE PRESENCE OF ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE ENVIRONMENT, OR
    F. CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR
    G. CONTAIN POLYCHLORINATED BIPHENYLS (PCB'S), ASBESTOS, MERCURY, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
27. ALL DISTRUBED AREAS NOT PAVED SHALL BE SODDED. SOD SPECIES SHALL BE APPROVED BY FDEP, AND SHALL NOT CONTAIN MESH BACKING.

REVISION	DATE	SYMBOL	REVISION	DATE	SYMBOL
		A			C
		B			D

ISSUE DATE: 6/5/2023
COMP. FILE No.: 14-0210.038
STATE PROJECT No.: 61363C

DESIGNER : BRL
DRAWN BY: RAJ
REVIEWED BY: RRC
Consultant :

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
Certificate of Authorization No. 2648
1625 Summit Lake Drive
Tallahassee, Florida 32317
Phone:850.562.9600 WWW.DRMP.COM

PROFESSIONAL REGISTRATION
BENJAMIN R. LENNON, P.E.
FLORIDA ENGINEER #78674

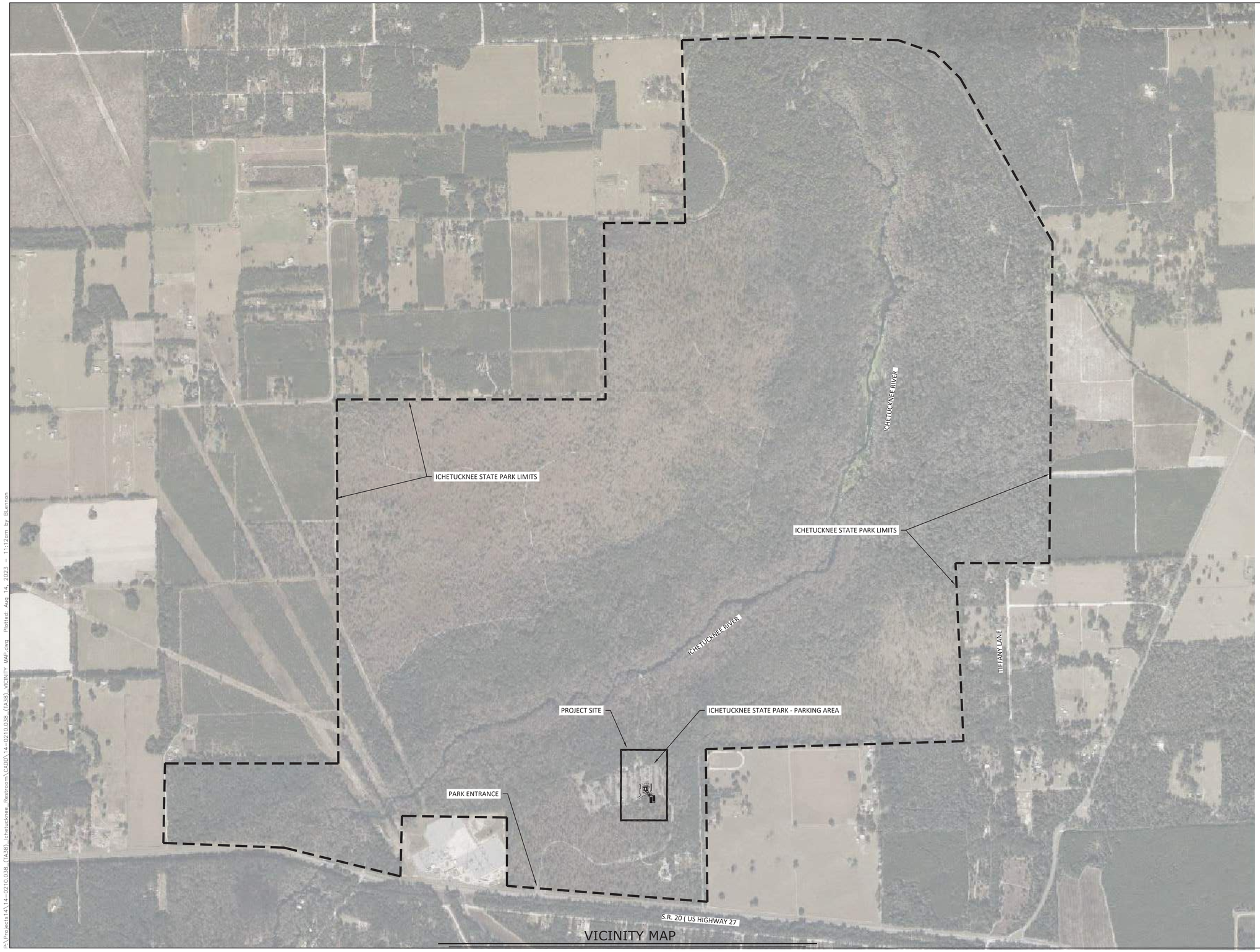
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
GENERAL NOTES

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
G101

P:\Projects14\14-0210.038_(TA38)_Ichetucknee_Restroom\CADD\14-0210.038_(TA38)_NOTES.dwg Plotted: Aug 14, 2023 - 11:12am by BLennon



VICINITY MAP

NORTH

0 2296.59 4593.18
GRAPHIC SCALE

SYMBOL	REVISION	DATE
A		
B		

SYMBOL	REVISION	DATE
C		
D		

ISSUE DATE: 6/5/2023
COMP. FILE No.: 14-0210.038
STATE PROJECT No.: 61363C

DESIGNER : BRL
DRAWN BY: RAJ
REVIEWED BY: RRC
Consultant :

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Certificate of Authorization No. 2648
1625 Summit Lake Drive
Tallahassee, Florida 32317
Phone:850.562.9600 WWW.DRMP.COM

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

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SHEET TITLE
VICINITY MAP

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
G102

P:\Projects\14\14-0210.038_(TA38)_Ichetucknee_Restroom\CADD\14-0210.038_(TA38)_VICINITY_MAP.dwg Plotted: Aug 14, 2023 - 11:12am by Blennon

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A NPDES PERMIT OR EXEMPTION PRIOR TO CONSTRUCTION.
2. EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
3. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
4. ALL DEVICES ARE TO BE MAINTAINED AND REPAIRED ON A REGULAR BASIS.
5. EXCESS SEDIMENT TO BE REMOVED WHEN SILT REACHES ONE-HALF (1/2) THE HEIGHT OF THE FENCE.
6. TEMPORARY GRASSING IS NOT TO BE LESS THAN TWO (2) DAYS AFTER COMPLETION OF ANY GRADING ACTIVITIES.
7. SILT FENCE MUST MEET THE REQUIREMENTS OF FDOT, STANDARD SPECIFICATIONS, LATEST EDITION.
8. PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL FOLLOWING FINAL GRADING.
9. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO CONSTRUCTION.
10. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN, AND REPAIRED BY THE GENERAL CONTRACTOR AS NEEDED.
11. CONTRACTOR TO COMPLETELY SECURE FROM EROSION ANY STOCK PILE OF EARTHEN MATERIALS. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY MATERIAL STOCKPILE LOCATIONS PRIOR TO COMMENCING WORK. THE LOCATIONS WILL BE CONFIRMED WITH THE DESIGN ENGINEER AND CONTRACTING OFFICER, AND THE ESPC PLANS WILL BE "REDLINED" WITH APPROPRIATE BMP'S TO REFLECT THE LOCATIONS.
12. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
13. ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF FDOT.
14. ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE PROJECT ENGINEER, COUNTY REPRESENTATIVE OR AS CONDITIONS MAY DICTATE.
15. MAXIMUM CUT OR FILL SLOPES IS 3H:1V.
16. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
17. DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES AND ALL EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
18. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS.
19. ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.
20. THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.
21. NO WASTE WILL BE DISPOSED INTO STORM WATER INLET OR WATER OF THE STATE.
22. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
23. ADEQUATE ROOM HAS BEEN PROVIDED WITHIN THE PROJECT LIMITS FOR REMOVAL OF BMP'S.THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE/BEYOND THE LIMITS OF CONSTRUCTION/DISTURBANCE TO REMOVE BMP'S.

SITE ACCESS

1. THE CONTRACTOR SHALL CONTROL ACCESS TO THE PROJECT SITE. TEMPORARY 6-FT HIGH(MIN.) CHAINLINK FENCE WITH SCREENING IS REQUIRED AROUND THE ENTIRE PERIMETER OF THE WORK ZONE TO PROHIBIT THE PUBLIC FROM ENTERING. COORDINATE ACCESS WITH PARK STAFF. OTHER PARTS OF THE PARK WILL BE IN-USE DURING CONSTRUCTION. ALL SECURITY AND ACCESS MANAGEMENT IS INCIDENTAL TO THE PROJECT - NO SEPARATE PAYMENT.
2. STAGING AND STORAGE SHALL BE COORDINATED WITH PARK STAFF.

MAINTENANCE OF TRAFFIC

1. CONTRACTOR IS RESPONSIBLE FOR ALL VEHICULAR AND PEDESTRIAN MAINTENANCE OF TRAFFIC ADJACENT TO THE PROJECT AREA. THIS MAY INCLUDE BUT NOT LIMITED TO SIGNS, BARRICADES, AND FLAGGERS. SIGNAGE AND PROCEDURES SHALL BE IN ACCORDANCE TO FDOT STANDARD PLANS 102-600.
2. COORDINATE ALL LANE CLOSURES WITH FDEP

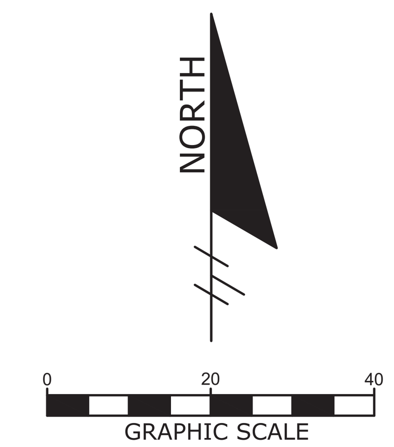
DEMOLITION NOTES

1. CALL SUNSHINE 811 BEFORE DIGGING.
2. ALL EXISTING FACILITIES, CONCRETE, STRUCTURES, AND VEGETATION SHOWN TO REMAIN SHALL BE PROTECTED. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED ITEMS TO EQUAL OR BETTER CONDITION.

EXISTING LEGEND:

SYMBOL LEGEND

	BENCHMARK
○ 9 SYC	TREE-SIZE(INCHES) AND SPECIES
× 132.2	SPOT ELEVATION - SOFT SURFACE
× 132.21	SPOT ELEVATION - HARD SURFACE
— 150 —	CONTOUR LINES

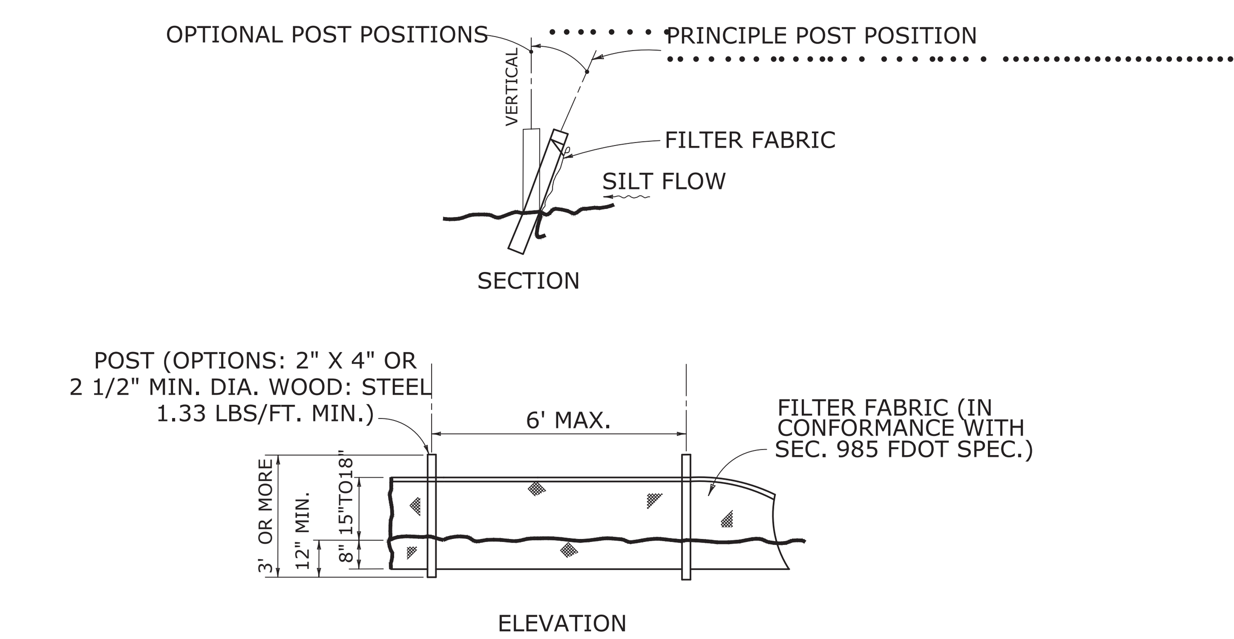


ABBREVIATIONS

EP = EDGE OF PAVEMENT
BC = BACK OF CURB
JBPRO = JBROWN PROFESSIONAL GROUP
LB = LICENSED BUSINESS
LS = LICENSED SURVEYOR
NAD83(2011) = NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT
NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988

TREES:

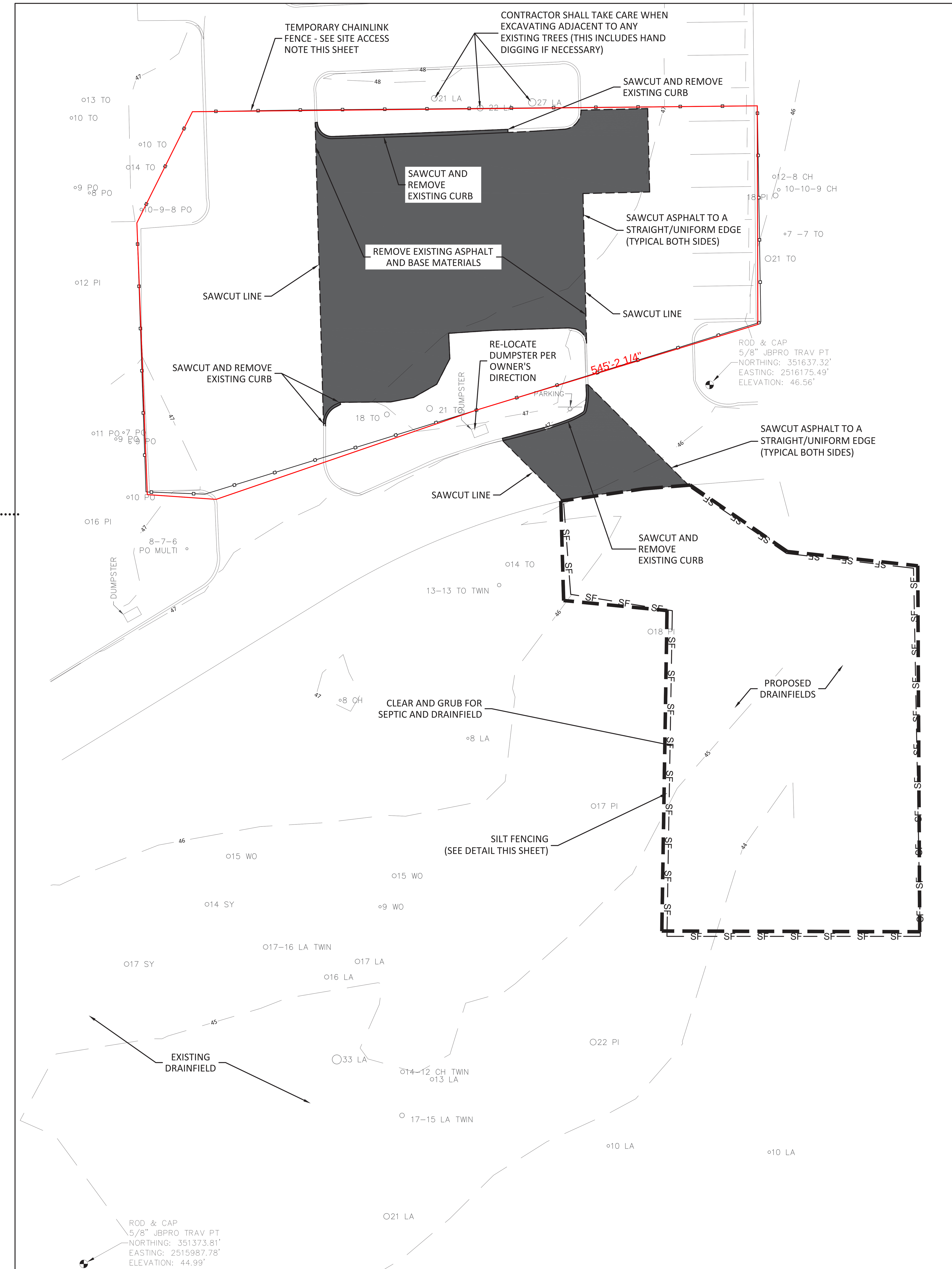
- CH = CHERRY LAUREL
- LA = LAUREL OAK
- MULTI = MULTIPLE TRUNK
- PI = PINE
- PO = POST OAK
- SY = SYCAMORE
- TO = TURKEY OAK
- TWIN = TWIN TRUNK
- WO = WATER OAK



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

TYPE III SILT FENCE

N.T.S.



DEMOLITION SITE PLAN

SCALE: 1" = 20'

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STATE PROJECT No.: 61363C

DESIGNER : BRL
DRAWN BY: RAJ
REVIEWED BY: RRC
Consultant :

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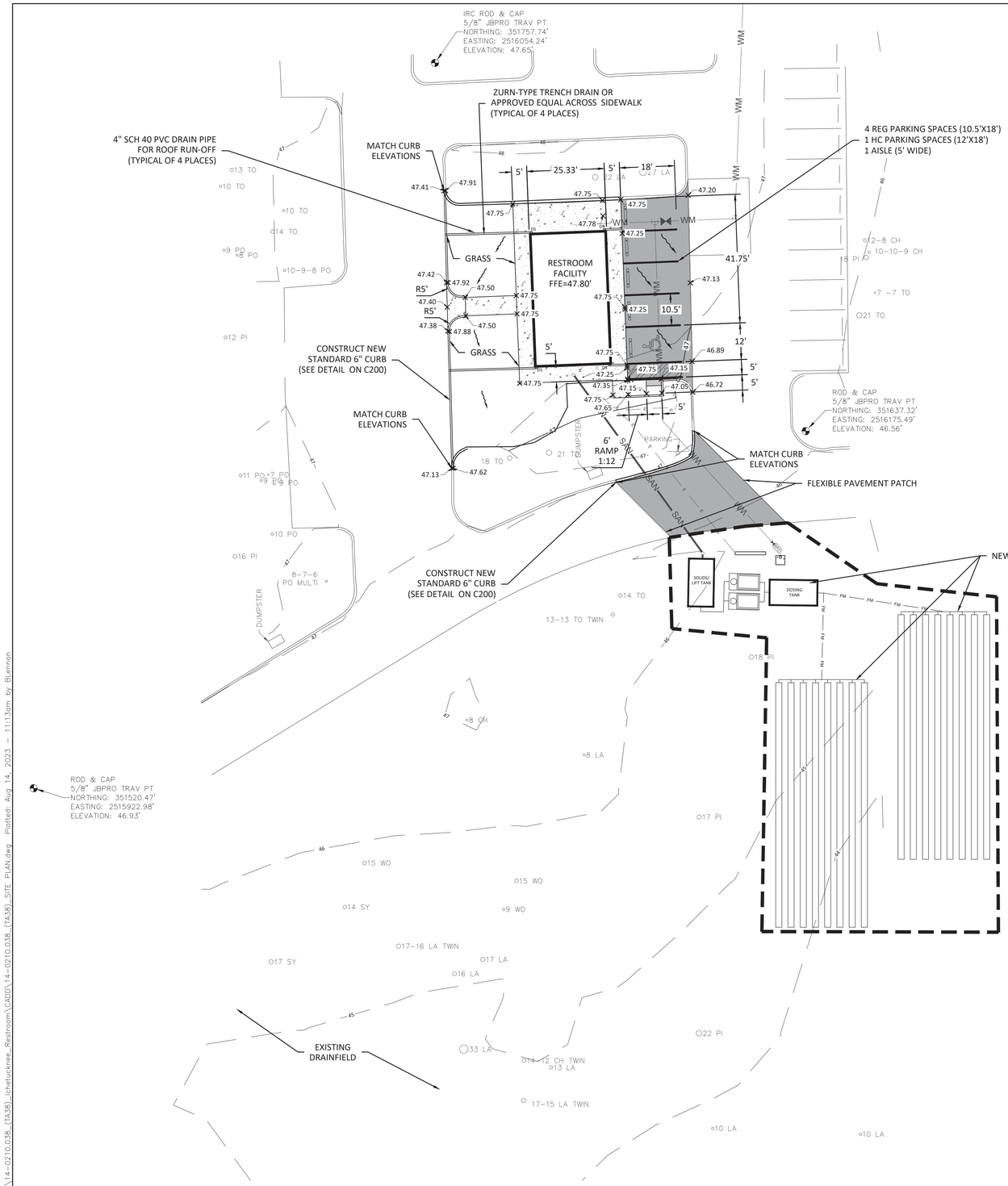
FLORIDA ENGINEER #78674

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: DEMOLITION AND EROSION CONTROL PLAN

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

SHEET NO. C100



SITE AND GRADING PLAN

SCALE: 1" = 20'

EXISTING LEGEND:

SYMBOL LEGEND

- BENCHMARK
- 9 SYC — TREE-SIZE(INCHES) AND SPECIES
- × 132.2 — SPOT ELEVATION - SOFT SURFACE
- × 132.21 — SPOT ELEVATION - HARD SURFACE
- 150 — CONTOUR LINES

PROPOSED LEGEND

- PROPOSED CONCRETE
- PROPOSED ASPHALT PAVEMENT
- 47.80 × — PROPOSED FINISH GRADE

ABBREVIATIONS

EP = EDGE OF PAVEMENT
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TO = TURKEY OAK
TWIN = TWIN TRUNK
WO = WATER OAK

NORTH

0 20 40
GRAPHIC SCALE

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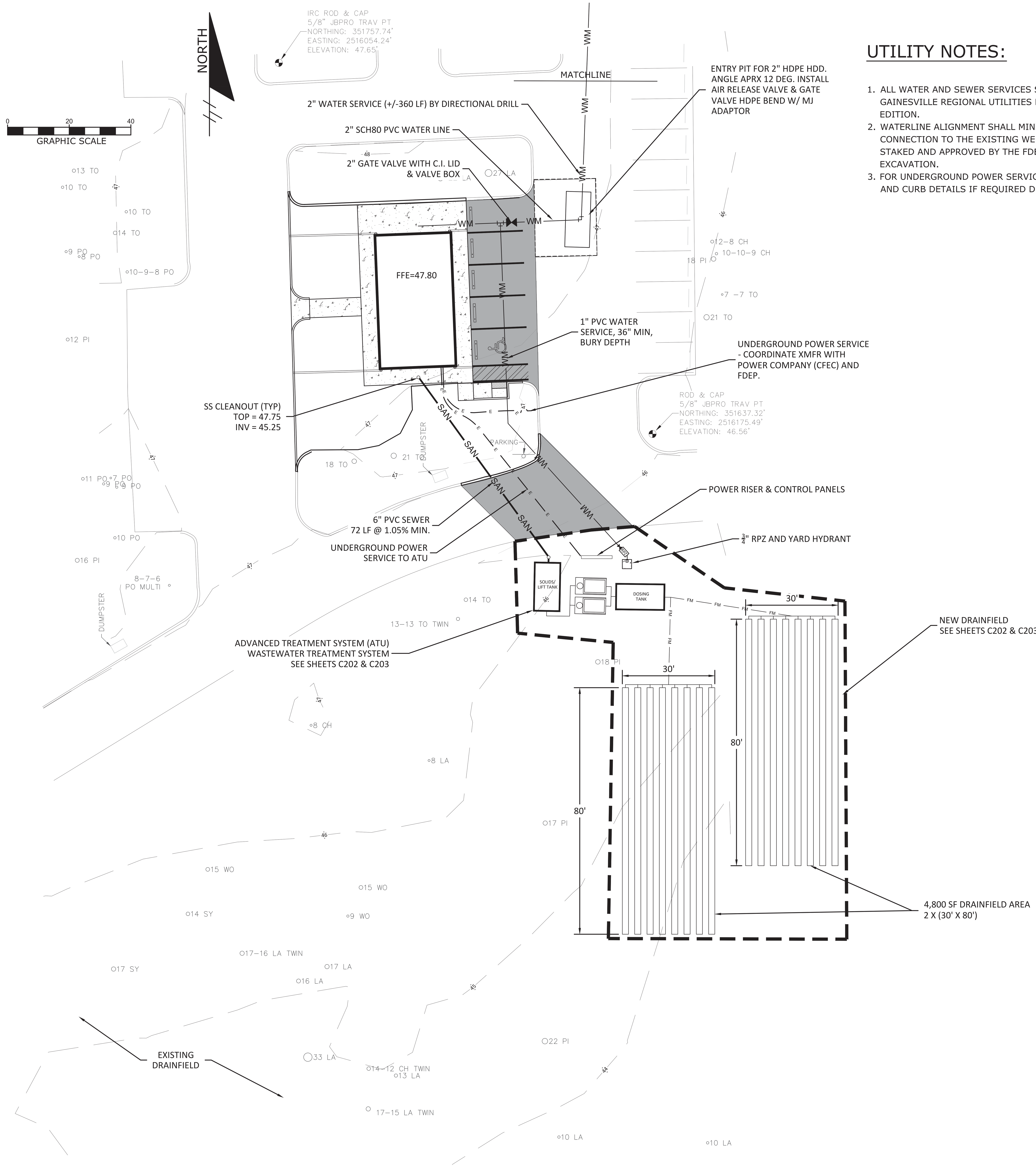
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
SITE AND GRADING PLAN

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
C101

P:\Projects14\14-0210.038_(TA38)_Ichetucknee_Restroom\CADD\14-0210.038_(TA38)_SITE PLAN.dwg Plotted: Aug 14, 2023 - 11:13am by BLennon



UTILITY NOTES:

1. ALL WATER AND SEWER SERVICES SHALL BE CONSTRUCTED PER GAINESVILLE REGIONAL UTILITIES DESIGN STANDARDS, LATEST EDITION.
2. WATERLINE ALIGNMENT SHALL MINIMIZE TREE IMPACTS NEAR THE CONNECTION TO THE EXISTING WELL. ALIGNMENT SHALL BE STAKED AND APPROVED BY THE FDEP PROJECT MANAGER PRIOR TO EXCAVATION.
3. FOR UNDERGROUND POWER SERVICE, SEE OPEN CUT REPAIR DETAIL AND CURB DETAILS IF REQUIRED DEPENDING ON XMFR LOCATION.

UTILITIES SITE PLAN

SCALE: 1" = 20'

2" WATER SERVICE (CONTINUATION)

SCALE: 1" = 20'

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FLORIDA ENGINEER #78674

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: UTILITY PLAN

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

SHEET NO. C102

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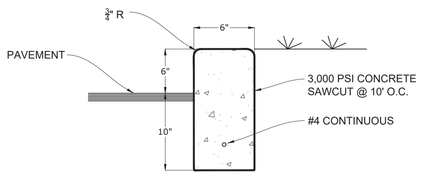
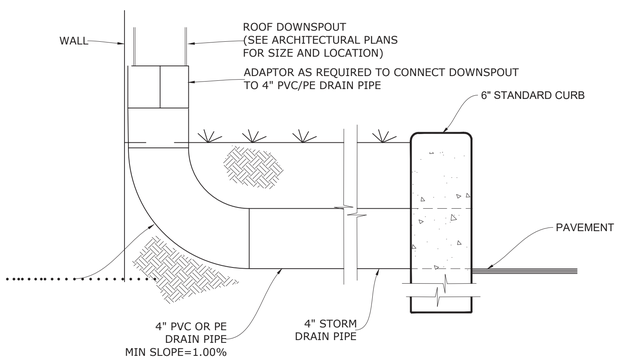


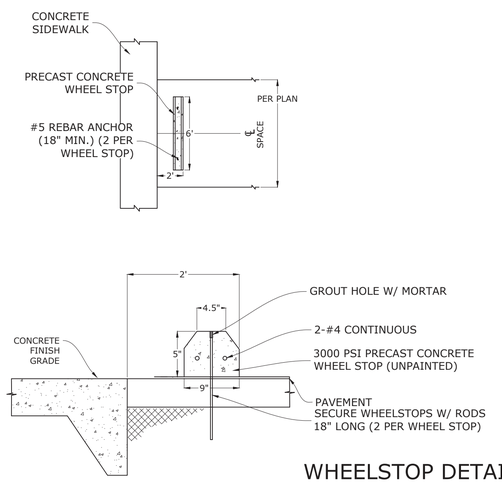
6" STANDARD CURB

N.T.S.



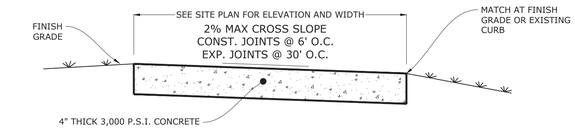
DOWNSPOUT DRAIN CONNECTION DETAIL

N.T.S.



WHEELSTOP DETAIL

N.T.S.

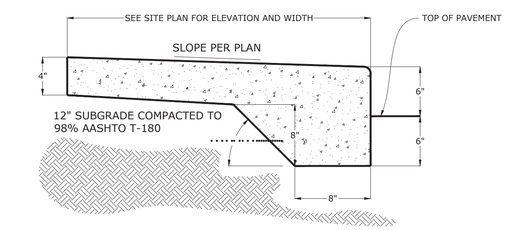


NOTES:

1. THE SIDEWALK SHALL BE CONSTRUCTED ON A CLEAN SAND SUB-BASE COMPACTED TO 95% MAX DENSITY.
2. SAWCUT CONTROL JOINTS SHALL BE CONSTRUCTED 5 FEET ON CENTER.
3. FULL DEPTH TRANSVERSE EXPANSION JOINTS WITH PREFORMED JOINT FILLER SHALL BE CONSTRUCTED AT 30' FEET ON CENTER.

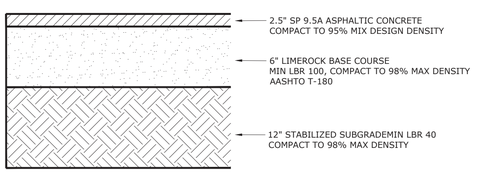
TYPICAL SIDEWALK DETAIL

N.T.S.



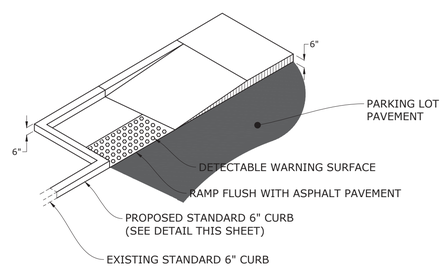
SIDEWALK DETAIL WITH THICKENED EDGE (ADJACENT TO PARKING)

N.T.S.



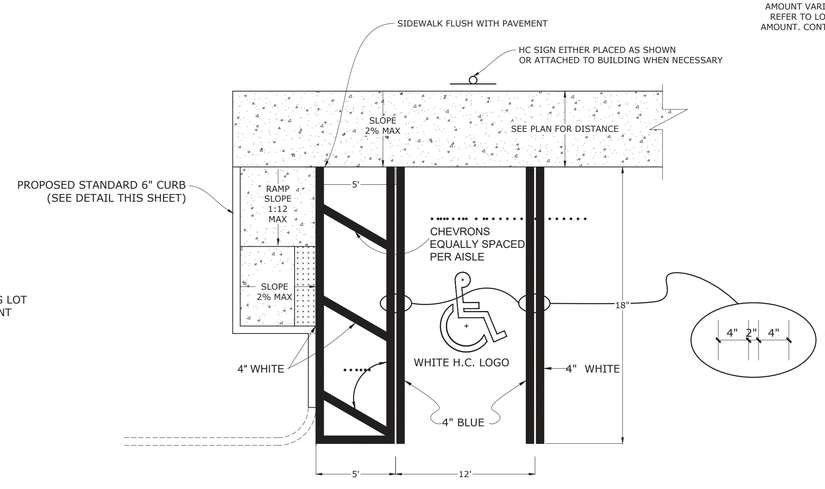
TYPICAL ASPHALT PAVEMENT SECTION

N.T.S.



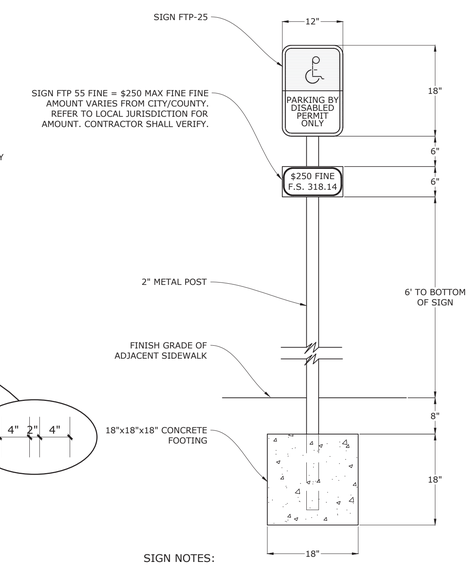
HANDICAP PARKING RAMP DETAIL

N.T.S.



H.C. PARKING STRIPING DETAIL

N.T.S.

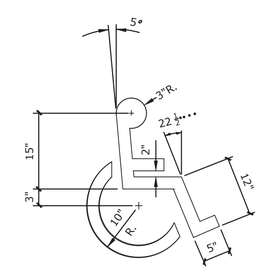


SIGN NOTES:

1. SIGN CONSTRUCTION, DESIGN AND PLACEMENT SHALL COMPLY WITH STATE AND LOCAL STATUTES.

HANDICAP PARKING SIGN

N.T.S.



NOTE:
AT HANDICAP PARKING SPACES PROVIDE 4" WIDE BLUE STRIPES 2" INSIDE AND 4" WIDE WHITE PARKING SPACE STRIPES AT EA. SIDE OF H.C. SPACE TYP.

HANDICAP PARKING LOGO

N.T.S.

SYMBOL	REVISION	DATE
C		
D		

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A		
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Consultant :

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ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
C200

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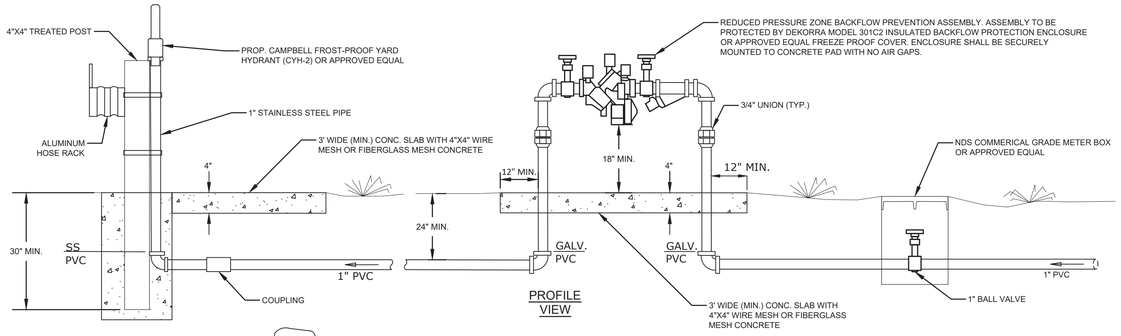
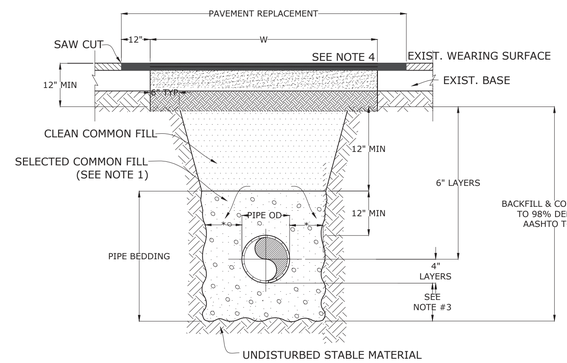


NOTES:
1. PROPOSED BACK FLOW PREVENTION ASSEMBLY TO BE 1" WATTS - MODEL 919QT OR APPROVED RP, RPDA, OR RPDA-II BACKFLOW PREVENTION ASSEMBLY FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH.
2. 1-INCH WATERLINE SHALL BE SCHEDULE 40 PVC.

YARD HYDRANT & RPZ DETAILS

N.T.S.



PAVEMENT REPLACEMENT	
DEPTH OF CUT	LIMIT OF PAVEMENT MAXIMUM WIDTH "W"
0'-8'	13'
8'-12'	21'
12'-16'	29'
16'-20'	32'

THIS TABLE IS FOR PAYMENT PURPOSES ONLY. SAFETY REQUIREMENTS MAY DICTATE INCREASED WIDTHS.

NOTES:

1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. 10" MAX. FOR PIPE DIAMETER LESS THAN 24"
3. 4" MAX. FOR PIPE 15" DIAMETER AND LESS
4. SEE TYPICAL ASPHALT SECTIONS SHEET C200.
5. BASE MATERIAL SHALL BE D.O.T. NO. 57, LIMEROCK, SHELL OR APPROVED EQUAL.
6. BACKFILL AASHTO M-145 SHALL BE PLACED IN LAYERS NOT TO EXCEED 6 INCHES. EACH LAYER SHALL BE THOROUGHLY TAMPED AND/OR ROLLED TO 98% AASHTO T-180 DENSITY.
7. TEMPORARY PATCHES WILL BE MAINTAINED SO AS TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIME. PERMANENT PATCH TO BE MADE AS SOON AS POSSIBLE.

OPEN CUT PAVEMENT REPAIR DETAIL

N.T.S.

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Consultant :

PROFESSIONAL REGISTRATION
BENJAMIN R. LENNON, P.E.
FLORIDA ENGINEER #78674

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

SHEET NO.
C201

P:\Projects14\14-0210.038_(TA38)_Ichetucknee_Restroom\CADD\14-0210.038_(TA38)_CONSTRUCTION DETAILS.dwg Plotted: Aug 14, 2023 - 11:14am by Blennon

DIMENSIONS ON THIS SITE PLAN ARE AS PROVIDED TO ENGINEER. ALL DIMENSIONS SHOULD BE CONFIRMED PRIOR TO CONSTRUCTION. ENGINEER ASSUMES NO LIABILITY FOR USE OF THESE DRAWINGS FOR PURPOSES OTHER THAN PERMITTING.

Low Pressure Dosed CONSTRUCTION SPECIFICATIONS

DRAINFIELD SIZING	3000 gpd / 0.8 LTAR TRENCH	= 3,750 s.f.	
2 ZONES x	8 laterals @ 80' ea x 3' PTI eq	= 3,840 s.f.	
DOSING	Network Volume x 4 =	210 gallons/dose	minimum
3,000 gpd /	5 doses/day	600 gallons/dose	OKAY

DISCHARGE SPECIFICATIONS

Lateral length and quantity	80 feet each lateral	8 laterals per DOSE
1-1/4" Lateral Feed	END	
Orifice size	$\frac{1}{4}$" facing up	last hole faces down
Spacing	8' apart;	begin 6' from end
Orifices per lateral	10	80 orifices per DOSE

DISTRIBUTION NETWORK

Force main	2" PVC
Header, center feed	2" PVC
Pump: Use Goulds	WS07B

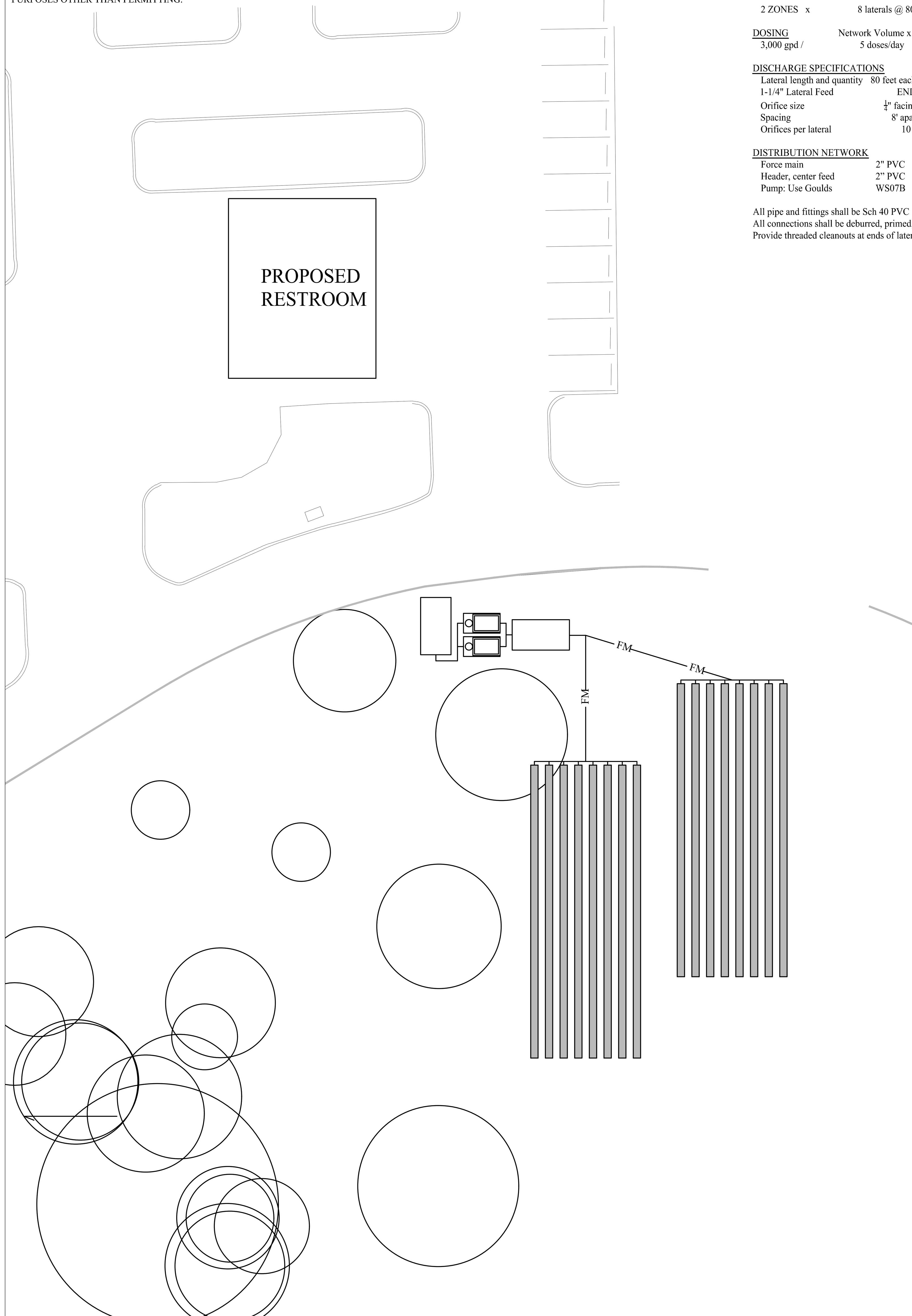
All pipe and fittings shall be Sch 40 PVC
All connections shall be deburred, primed, and solvent welded per industry standard
Provide threaded cleanouts at ends of laterals, extend access to surface. (See Detail)

OSTDS GENERAL INFORMATION:

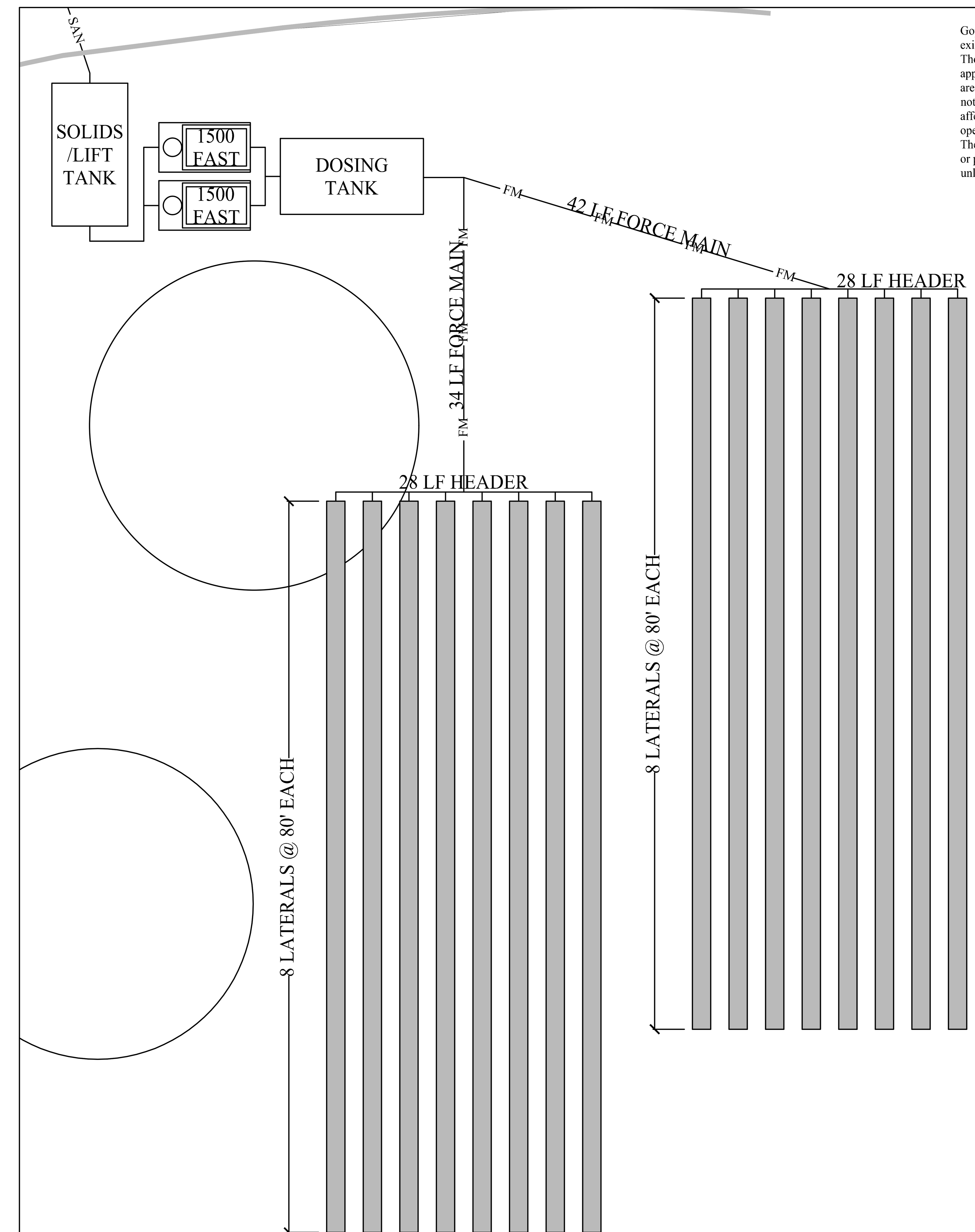
NEW RESTROOM BUILDING	3000 gpd design
(2) TREATMENT UNIT:	MicroFAST 1.5, no equals
DRAINFIELD SIZING:	3750 s.f. MIN
DRAINFIELD REDUCTION:	NONE
SETBACK REDUCTIONS:	NONE
LOT LOADING INCREASE:	NONE

CERTIFICATION FOR MULTIPLE ATUs TREATING FLOW OVER 1500 gpd

I, Mark D Repasky, PE0036872, do hereby certify that the unit(s) used in this system design is capable of consistently meeting, at minimum, secondary treatment standards established by for $CBOD_5$ and TSS established in Rule 62-6.025(12)(a), FAC.
In addition, the following requirements shall also be met:
The system installation shall be inspected and approved by the design Engineer (62-6.003(2)(c)1., FAC) prior to use of the system.
The owner or lessee of a system shall continuously comply with the applicable safety, maintenance and operational requirements of 62-6.025(2). FAC as well as manufacturer and design engineer recommendations.
This system requires a maintenance agreement with a permitted aerobic unit maintenance entity which has at least a Class D state certified operator who has been certified under the provisions of Chapter 62-602, FAC.
Sampling for effluent quality reports for $CBOD_5$ and suspended solids shall be collected at least semi-annually and such samples shall be analyzed by a department-approved laboratory.



SCALE: 1" = 20'



Gopher tortoise burrows likely exist in the drainfield area. Those will need to be appropriately relocated. There are no other pertinent features noted near the site that would affect the system installation or operation.
There are no known onsite wells or public wells within 200 feet unless shown.

TANKS AND DRAINFIELD
SCALE: 1" = 10'

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL
		C			A
		D			B

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

ISSUE DATE: 9/28/2022
COMP. FILE No.: 14-0210.038
STATE PROJECT No.: 61363C

DESIGNER :
DRAWN BY:
REVIEWED BY:
Consultant :

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
Certificate of Authorization No. 2648
1625 Summit Lake Drive
Tallahassee, Florida 32317
Phone:850.562.9600 WWW.DRMP.COM

19 OCTOBER 2022
MARK D. REPASKY, PE0036872 SR0111699
WASTEWATER TECHNOLOGIES, Inc.
CA27504 SA0081554
3096 S ADAMS STREET,
TALLAHASSEE FL 32301
850-561-1111 850-385-1832 fax

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
WASTEWATER TREATMENT SYSTEM
SITE PLAN

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
ADD RESTROOM

SHEET NO.
C202

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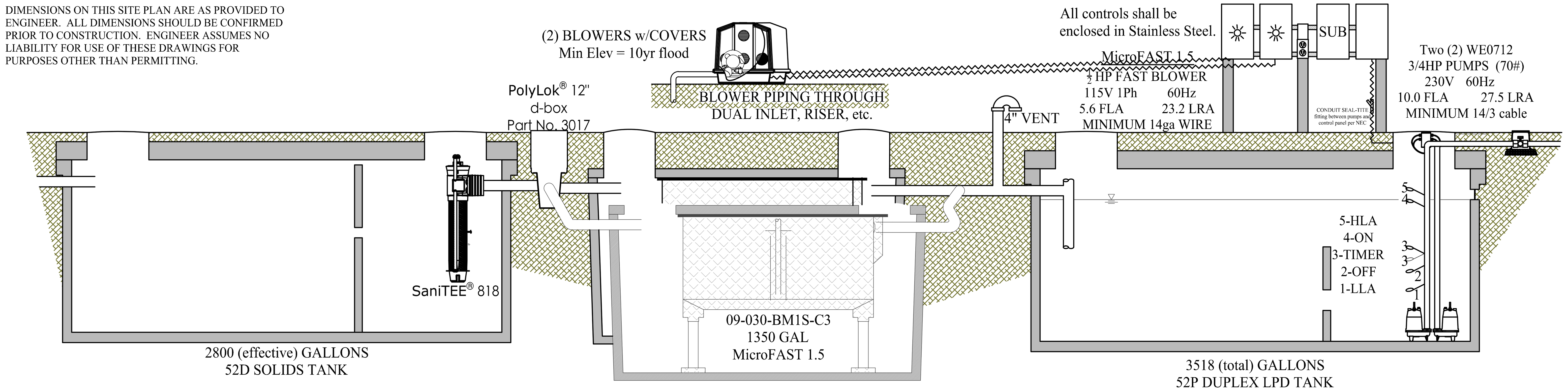

TANK PROFILES

3/8" = 1'

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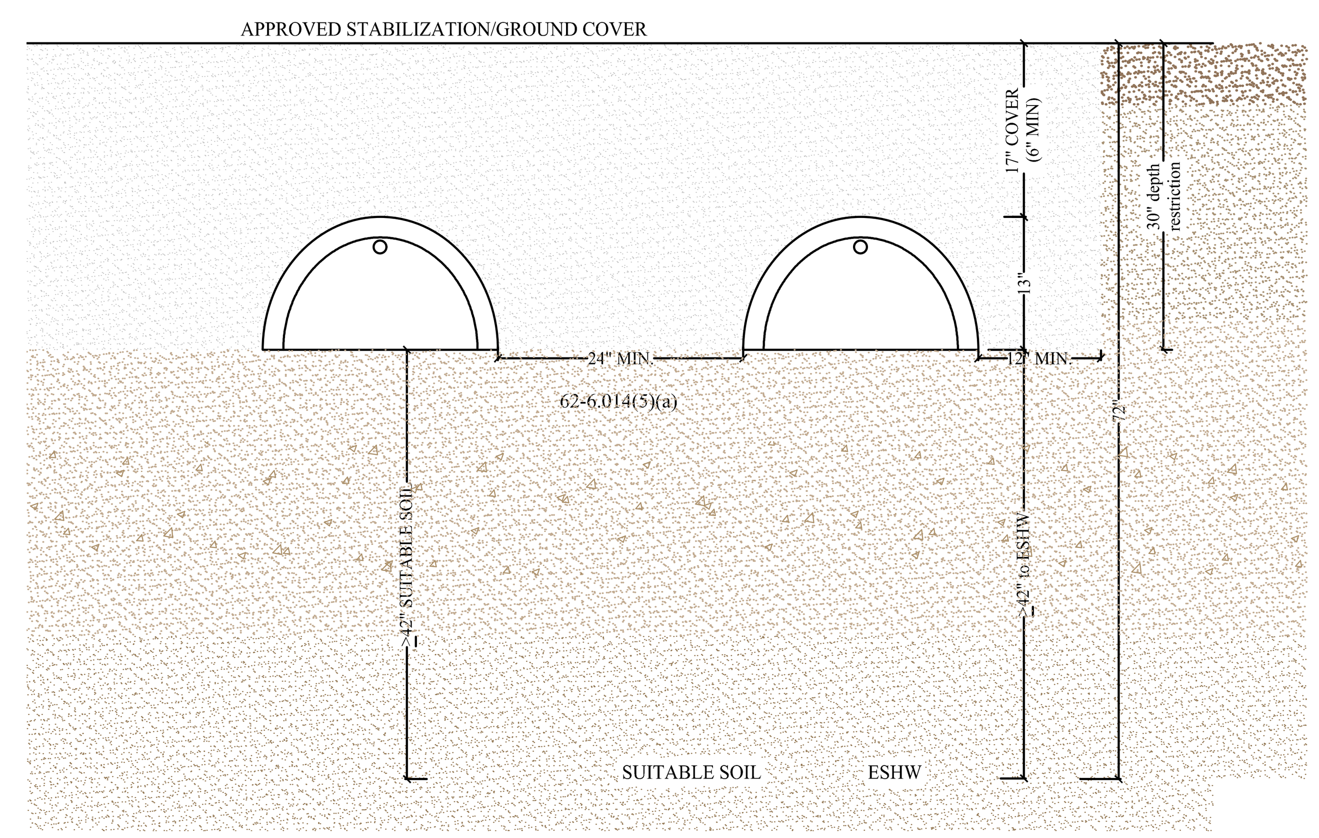
CONTROLS

Electrical conduit and effluent dosing pipe is water tight and exits the tank through the tank outlet with a water-tight seal, or through the riser wall, above ESHW, with a soil-tight seal, or through an access port in the tank lid installed by manuf. with a water-tight seal per 62-6.013(9)(c), FAC.

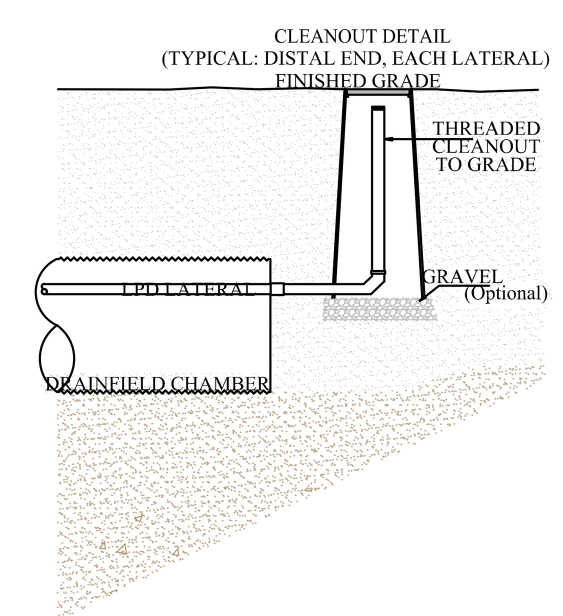
TIMER is allowed as part of this design submitted by this Engineer, per 62-6.013(9)(d)1., FAC
Control panels shall be as close as practicable to equipment served.

Alarm shall be located in a conspicuous location. When outdoors, alarm shall be waterproof and specified by manufacturer for outdoor use per 62-6.013(9)(d)2, FAC
Controls enclosures shall be STAINLESS STEEL



DRAINFIELD SECTION

3/8" = 1'



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SHEET TITLE
WASTEWATER TREATMENT SYSTEM DETAILS

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
ADD RESTROOM

SHEET NO.
C203

GENERAL LEGEND

Symbol	Description
BUILDING SECTION (A / A -07, SIM)	BUILDING SECTION LETTER SECTION NUMBER SHEET NUMBER
WALL SECTION (8 / A -08, SIM)	WALL SECTION NUMBER SHEET NUMBER
DETAIL (1 / A -09, SIM)	DETAIL NUMBER SHEET NUMBER
(1 / A -09, SIM)	DETAIL NUMBER SHEET NUMBER
BUILDING ELEVATION (A101, 1 Ref)	BUILDING ELEVATION LETTER SHEET NUMBER
INTERIOR ELEVATION (A101, 1 Ref)	INTERIOR ELEVATION LETTER SHEET NUMBER
Room name 101	ROOM NAME AND NUMBER
101 / 90 MIN	DOOR NUMBER FIRE RATING
P-1	WALL PARTITION TYPE
FEC	FIRE EXTINGUISHER CABINET
FEB	FIRE EXTINGUISHER ON BRACKET -

Symbol	Description
	SPOT ELEVATION
EL. 0.0	ELEVATION HEIGHT
	NORTH ARROW
	STRUCTURAL STEEL FRAMING
	REVISION CLOUD
1	REVISION NUMBER
	METAL STUD WALL
	CONCRETE MASONRY
	EARTH/COMPACT FILL
	PORUS FILL/ GRAVEL
	CONCRETE
	SAND, MORTAR, GYPSUM BOARD, PLASTER
	INFILL CONSTRUCTION
	COLUMN LINE / CENTER LINE
	PROPERTY LINE
	HIDDEN LINE (BEYOND)
	BREAK LINE
	WOOD- CONTINUOUS/ NON CONTINUOUS
	FINISH WOOD
	BATT INSULATION
	RIGID INSULATION
	BLOCK
	PLYWOOD
	FACE BRICK

OCCUPANCY

OCCUPANCY GROUP:	FBC GROUP B BUSINESS	FBC-B: CH. 3, SECTION 302
GROSS FLOOR AREA: DAY USE RESTROOMS	1,115 GSF	
FLOOR AREA: DAY USE RESTROOMS	1,115 GSF - BUSINESS OCCUPANCY	FBC-B: CH. 10 TABLE 1004.5
TOTAL OCCUPANCY LOAD: DAY USE RESTROOMS	1,115 GSF BUILDING W/ 10 SINGLE USE RESTROOMS = 10 PERSONS	FBC SECTION 508
CONSTRUCTION TYPE:	TYPE II-B NON SPRINKLERED	
TENENT SEPARATION:	N/A	

APPLICABLE CODES

BUILDING	FLORIDA BUILDING CODE (FBC-B)	2020, 7TH EDITION
EXISTING BUILDING	FLORIDA BUILDING CODE (FBC-EB)	2020, 7TH EDITION
ACCESSIBILITY	FLORIDA BUILDING CODE	2020, 7TH EDITION
MECHANICAL	FLORIDA BUILDING CODE (FBC-M)	2020, 7TH EDITION
ENERGY CONSERVATION	FLORIDA BUILDING CODE	2020, 7TH EDITION
FUEL GAS	FLORIDA BUILDING CODE (FBC-FG)	2020, 7TH EDITION
PLUMBING	FLORIDA BUILDING CODE (FBC-P)	2020, 7TH EDITION
FIRE PREVENTION	FLORIDA FIRE PREVENTION CODE (FFPC)	2020, 7TH EDITION
ELECTRICAL	NATIONAL ELECTRICAL CODE (NFPA 70)	2017 (per 7th Ed. FBC-B)

ABBREVIATIONS

A.C.	AIR CONDITIONED
ACP	ACOUSTICAL PANEL
A.C.T.	ACOUSTICAL TILE
A.F.F.	ABOVE FINISH FLOOR
A.H.U.	AIR HANDLING UNIT
AJ	ACOUSTICAL JOINT
ALT.	ALTERNATE
ALUM.	ALUMINUM
AMP.,A	AMPERES
AN	ANODIZED
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
B	BOTTOM
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
BAL.	BALANCE
BRG.	BEARING
B.T.U.	BRITISH THERMAL UNIT
C	CONDUIT
CAB.	CABINET
CAP.	CAPACITY
C/B	CIRCUIT BREAKER
C.D.	CEILING DIFFUSER
℄	CENTER LINE
CER.	CERAMIC
C.F.M.	CUBIC FEET PER MINUTE
CIRC.	CIRCULATING
C.I.	CAST IRON
CKT.	CIRCUIT
CL	CLEAR
CLG.	CEILING
C.M.U.	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
CPT	CARPET
COL.	COLUMN
COMP.	COMPRESSER
CONC.	CONCRETE
COND.	CONDENSATE
CONN.	CONNECTION
CONT.	CONTINUOUS
CJ	CONTROL JOINT
CT	CERAMIC TILE
C.T.B.	CERAMIC TILE BASE
CU	CONDENSING UNIT
DET	DETAIL
DIA., D.	DIAMETER
DIFF.	DIFFUSER
DIM.	DIMENSION
DISC.	DISCONNECT
DIST.	DISTRIBUTION
D.J.	DUMMY JOINT
DN.	DOWN
DR.	DRAIN
D.S.	DOWNSPOUT
DWG.(S)	DRAWING (S)
E	EAST
EA.	EACH
E.C.	EMPTY CONDUIT
E.F.	EXHAUST FAN
EL	FLOOR ELEVATION
ELEV	ELEVATION
EQ	EQUAL
EQUIP.	EQUIPMENT
E.W.C.	ELECTRIC WATER COOLER
EXH.	EXHAUST
EXP.	EXPANSION
E.J.	EXPANSION JOINT (EJ)
E.W.	EACH WAY
EXT.	EXTERIOR
EXIST.	EXISTING
F.A.	FIRE ALARM
F.B.C.	FLORIDA BUILDING CODE
F.C.	FLEXIBLE CONNECTION
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER & BRACKET
F.E.C.	FIRE EXTINGUISHER & CABINET
F.H.C.	FIRE HOSE CABINET W/ EXTINGUISHER
FIN.	FINISH
FL.	FLOOR
FP	FIRE PROOFING
FT.	FOOT-FEET
FTG.	FOOTING
FVC	FIRE VALVE CABINET
GA.	GAUGE
GAL.	GALLON
GALV.	GALVANIZED
G.F.E.	GOVERNMENT FURNISHED EQUIPMENT
GL.	GLASS
GND.	GROUND
G.P.M.	GALLONS PER MINUTE
GR.	GRILLE
GWB	GYPSUM WALLBOARD
GYP. BD.	GYPSUM BOARD
H.B.	HOSE BIBB
H.C.	HANDICAP
HT.	HEIGHT
H.M.	HOLLOW METAL
H.P.	HIGH POINT
HR.	HOUR
HTG.	HEATING
H.&V.	HEATING & VENTILATING
HDWE	HARDWARE
HYD.	HYDRANT
I.D.	INSIDE DIAMETER
IN.	INCHES
INCAND.	INCANDESCENT
INSUL.	INSULATION
INT.	INTERIOR

JCT.	JUNCTION
JT.	JOINT
M.	MOTOR
MAINT.	MAINTENANCE
MAX.	MAXIMUM
M.D.P.	MAIN DISTRIBUTION PANEL
MECH.	MECHANICAL
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MO	MASONRY OPENING
MOD.BIT.	MODIFIED BITUMEN
MR	MOISTURE RESISTANT
M.T.	METAL THRESHOLD
MTD.	MOUNTED
MTG.	MOUNTING
N	NORTH
N.A.	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
P. LAM	PLASTIC LAMINATE
PART.	PARTITION
PC	PRECAST CONCRETE
PER.	PERIMETER
PL.	PLATE
PLBG.	PLUMBING
PLYW'D	PLYWOOD
PNL.	PANEL
PSF	POUNDS/SQUARE FOOT
PSI	POUNDS/SQUARE INCH
PSTG.	POUNDS/SQUARE INCH GAGE
P.T.	PRESSURE TREATED
PT	PAINT
PTD.	PAINTED
QT	QUARRY TILE
QTR.	QUARTER
QUAN.	QUANTITY
R	RADIUS
R.A.	RETURN AIR
RAD.	RADIUS
R.A.G.	RETURN AIR GRILLE
R.A.R.	RETURN AIR REGISTER
RD.	ROUND
R.D.	ROOF DRAIN
RDY.	READY
RECIRC.	RECIRCULATING
RECP.	RECEPTACLE
REG.	REGISTER
REINF.	REINFORCING
REQ.	REQUIRED
RET.	RETURN
R.G.	RETURN GRILLE
RM.	ROOM
R.O.	ROUGH OPENING
R.P.M.	REVOLUTION/MINUTE
RWL	RAIN WATER LEADER
S.A.	SUPPLY AIR
S.A.T.	SUSPENDED ACOUSTICAL TILE
SCH.	SCHEDULE
SECT.	SECTION
SERV.	SERVICE
S.G.	SUPPLY GRILLE
SHT.	SHEET
SP	STAND PIPE
SPEC.	SPECIFICATIONS
SQ. FT.	SQUARE FEET
SRB	STRAIGHT RESILIENT BASE
SS	STAINLESS STEEL
STL	STEEL
STOR.	STORAGE
STRUC.	STRUCTURAL
SUSP.	SUSPENDED
SW.	SWITCH
TEL.	TELEPHONE
TEMP.	TEMPERATURE
THK.	THICK
THD.	THRESHOLD (THRESH)
T.O.W.(B)	TOP OF WALL (BEAM)
TOIL.	TOILET
TYP.	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR.	URINAL
V.	VOLT
VT	VINYL COMPOSITION TILE
V.C.	VITROUS CLAY
V.E.J.	VERTICAL EXPANSION JOINT
VENT.	VENTILATION
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
V.T.R.	VENT THRU ROOF
W.	WATT
W/	WITH
W.C.	WATER CLOSET
W.C.O.	WASTE CLEAN OUT
WD.	WOOD
W.D.	WINDOW DIMENSION
W.G.	WATER GAGE
WP.	WEATHERPROOF
W.W.F.	WELDED WIRE FABRIC

INDEX OF DRAWINGS

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S101	FOUNDATION PLAN
S201	ROOF FRAMING PLAN
S301	FOUNDATION DETAILS
S302	TYPICAL BUILDING SECTION
S401	TYPICAL MASONRY DETAILS

ARCHITECTURAL

A100	ARCHITECTURAL SPECIFICATIONS
A101	RESTROOM BUILDING - FLOOR PLAN
A102	RESTROOM BUILDING - FLOOR PLAN - PLUMBING
A201	RESTROOM BUILDING - REFLECTED CEILING PLAN
A301	BUILDING ELEVATIONS
A401	RESTROOM BUILDING - BUILDING & WALL SECTIONS
A501	RESTROOM BUILDING - ROOF PLAN

MECHANICAL

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M101	FLOOR PLAN - MECHANICAL
M501	DETAILS - MECHANICAL

PLUMBING

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P101	FLOOR PLAN - PLUMBING
P501	DETAILS & SCHEDULES - PLUMBING
P601	ISOMETRICS - PLUMBING

ELECTRICAL

E001	LEGEND & NOTES - ELECTRICAL
E101	FLOOR PLANS - ELECTRICAL
E501	DETAILS - ELECTRICAL

GENERAL NOTES

THE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALL CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONSTRUCTION DOCUMENTS, HE/SHE IS RESPONSIBLE FOR REQUESTING CLARIFICATION IN WRITING TO THE ARCHITECT. IF THE CONTRACTOR PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE/SHE SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THERE.

DIMENSIONS ARE TAKEN FROM THE FACE OF EXISTING NON AND LOAD BEARING INTERIOR WALLS AND FROM THE FACE OF STUD FOR NEW WALLS.

BEFORE SUBMITTING FOR WORK OR BEGINNING WORK, THE CONTRACTOR WILL BE HELD TO HAVE EXAMINED THE PREMISES AND SATISFIED HIMSELF/HERSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE/SHE WILL BE OBLIGATED AND COMPLETE THE WORK UNDER THE CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERRORS OR NEGLIGENCE ON HIS/HER PART.

CONTRACTOR SHALL ERECT AND MAINTAIN ALL REASONABLE SAFEGUARDS FOR SAFETY AND HEATH INCLUDING POSTING DANGER SIGNS, AND OTHER WARNING AGAINST HAZARDS, AS WELL AS PROMULGATING SAFETY REGULATIONS. CONTRACTOR SHALL PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION, VEHICLE ACCESS AND EGRESS LOCATIONS.

THE CONTRACTOR SHALL SUBMIT A COMPLETE DETAILED CONSTRUCTION SCHEDULE AND PLAN PRIOR TO THE PRE-CONSTRUCTION CONFERENCE.

CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY OWNER FOR ON SITE STORAGE OF CONSTRUCTION MATERIALS. COMPARTMENT TRAILERS OR SIMILAR PROTECTIVE STORAGE FACILITIES MAY BE UTILIZED ON SITE TO SECURE ALL EQUIPMENT AND ITEMS REMOVED DURING PROJECT WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND ITEMS REMOVED.

CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL POWER AND WATER UTILITY PROVIDERS TO INSTALL NEW SERVICE TO THE SITE PRIOR TO THE START OF CONSTRUCTION.

ALL WORK SHALL COMPLY WITH APPLICABLE OSHA AND EPA REGULATIONS AND GUIDELINES.

INSTALL WORK IN ACCORDANCE WITH THE CODES LISTED ON THE INDEX SHEET. IMMEDIATELY NOTIFY THE ARCHITECT WHEN CONFLICTS OCCUR BETWEEN CODES AND BETWEEN THE CONSTRUCTION DOCUMENTS.

CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE ARCHITECT AT COMPLETION OF THE CONSTRUCTION. CHANGES SHALL BE INDICATED CLEARLY BY MECHANICAL DRAFTING METHODS.

CONTRACTOR SHALL MAINTAIN A CLEAN WORK PREMISES AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS DAILY.

CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING SURFACES OUTSIDE THE SCOPE OF WORK AND SHALL BE RESPONSIBLE FOR RETURNING DAMAGED AREAS (MATERIALS, FINISHES, LANDSCAPE, ETC.) TO THEIR ORIGINAL CONDITION. ALL DISTURBED AREAS OF SOIL TO BE SODDED. ALL PLANTING REPLACEMENT TO BE GUARANTEED FOR ONE YEAR.

CONTRACTOR SHALL ERECT ALL SAFE GUARDS TO PROTECT ADJACENT AREAS. REMOVE DEBRIS FROM JOB SITE DAILY AND ADHERE TO ENVIRONMENTAL REGULATIONS.

WHERE A NOTE IS SHOWN FOR ONE CONDITION IT SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS.

CONTRACTOR SHALL PATCH ALL SPALLED AND ROUGH CONCRETE FLOOR SURFACES TO PROVIDE A CONTINUOUS LEVEL CONCRETE SURFACE.

A DISCOVERY OF ASBESTOS: ALL MATERIAL KNOWN TO CONTAIN ASBESTOS & THAT WILL BE IMPACTED BY DEMOLITION & CONSTRUCTION ACTIVITIES INCLUDED IN THE PROJECT SCOPE OF WORK HAVE BEEN REMOVED. IN THE EVENT CONCEALED CONDITIONS ARE ENCOUNTERED, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING FURTHER WITH WORK.

A KNOX BOX SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING WITHIN 5' OF THE MAIN ENTRANCE DOOR. MOUNTING HEIGHT TO BE NOT GREATER THAN 5' AFF. KEYS TO BUILDING, PHASE I AND PHASE II ELEVATOR RECALL SHALL BE PROVIDED FOR PLACEMENT IN KNOX BOX. REQUIRED DUE TO SPRINKLER CONTROL VALVES AND/OR FIRE ALARM CONTROL PANEL LOCATED IN THIS SPACE OR THE BUILDING IS PROVIDED WITH ELEVATOR RECALL. **NFPA 1, 18.2.2.1, FLORIDA 2018 EDITION.**

A MINIMUM 6" ADDRESS NUMBERS SHALL BE LOCATED ON THE EXTERIOR OF THE BUILDING. NUMBERS TO BE PLAINLY VISIBLE FROM THE STREET OR OTHER ELEVATIONS AND CONTRAST WITH BACKGROUND. THIS MAY BE WAIVED IF ADDRESS NUMERIC IS ILLUMINATED ON A SIGN SEPARATE FROM THE BUILDING THAT IS VISIBLE FROM THE STREET. **NFPA 1, 10.11.1, 10.11.1.2 & 10.11.1.7, 10.11.1.8, FLORIDA 2018 EDITION**

THE ELEVATION OF THE FLOOR SURFACE ON BOTH SIDES OF ANY DOOR SHALL NOT VARY BY MORE THAN 1/2" INCH FOR A DISTANCE NOT LESS THAN THE WIDTH OF THE WIDEST LEAF. PLEASE SHOW ON PLANS. **NFPA 101, SECTION 7.2.1.3.1, FLORIDA 2018 EDITION**

CONTRACTOR SHALL MAKE AVAILABLE TO THE BUILDING INSPECTOR DOCUMENTATION NECESSARY TO VERIFY THAT ALL EXTERIOR ENVELOPE COMPONENTS REQUIRING PRODUCT APPROVAL PER FS 553.842 ARE IN COMPLIANCE WITH PRODUCT APPROVAL INSTALLATION REQUIREMENTS

THE FIRE ALARM CONTRACTOR SHALL SUBMIT PLANS FOR EVALUATION AND APPROVAL PRIOR TO COMMENCEMENT OF NEW WORK". FIRE PROTECTION IS NOT PART OF THE BUILDING PERMIT EVALUATION.

ALL GUARDRAILS SHALL RESIST A CONCENTRATED LOAD OF 250 POUNDS; **2020 FBC-B, SECTION 1607.8.1 & 1607.8.1.1**

PROVIDE SIGNAGE MEETING F.A.C. 69A-60.0081 REQUIREMENTS.

SIGNAGE SHALL INDICATE LIGHT-FRAME TRUSS-TYPE ROOF FRAMING WITH 8"x8" REFLECTIVE RED MALTESE CROSS - VERIFY SPECIFIC LOCATIONS WITH STATE FIRE MARSHAL INSPECTOR - SIGN TYPICALLY SHALL BE LOCATED WITHIN 24" TO THE LEFT OF THE MAIN ENTRY AND BETWEEN 4'-0" AND 6'-0" A.F.F.

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
1			3		
2			4		

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 61363C

DESIGNER: DSHULER
DRAWN BY: JHIGHTOWER
REVIEWED BY: DSHULER

CONSULTANT: BARNETT FRONCZAK BARLOWE & SHULER ARCHITECTS
BFBS ARCHITECTS
2074 CENTRE POINTE BLVD
SUITE 200
TALLAHASSEE, FLORIDA 32308
p.: 850.224-6301

PROFESSIONAL REGISTRATION
RAY DOUGLAS SHULER
FL AR 96089
STATE OF FLORIDA · RAY DOUGLAS SHULER · 96089 · REGISTERED ARCHITECT

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: INDEX

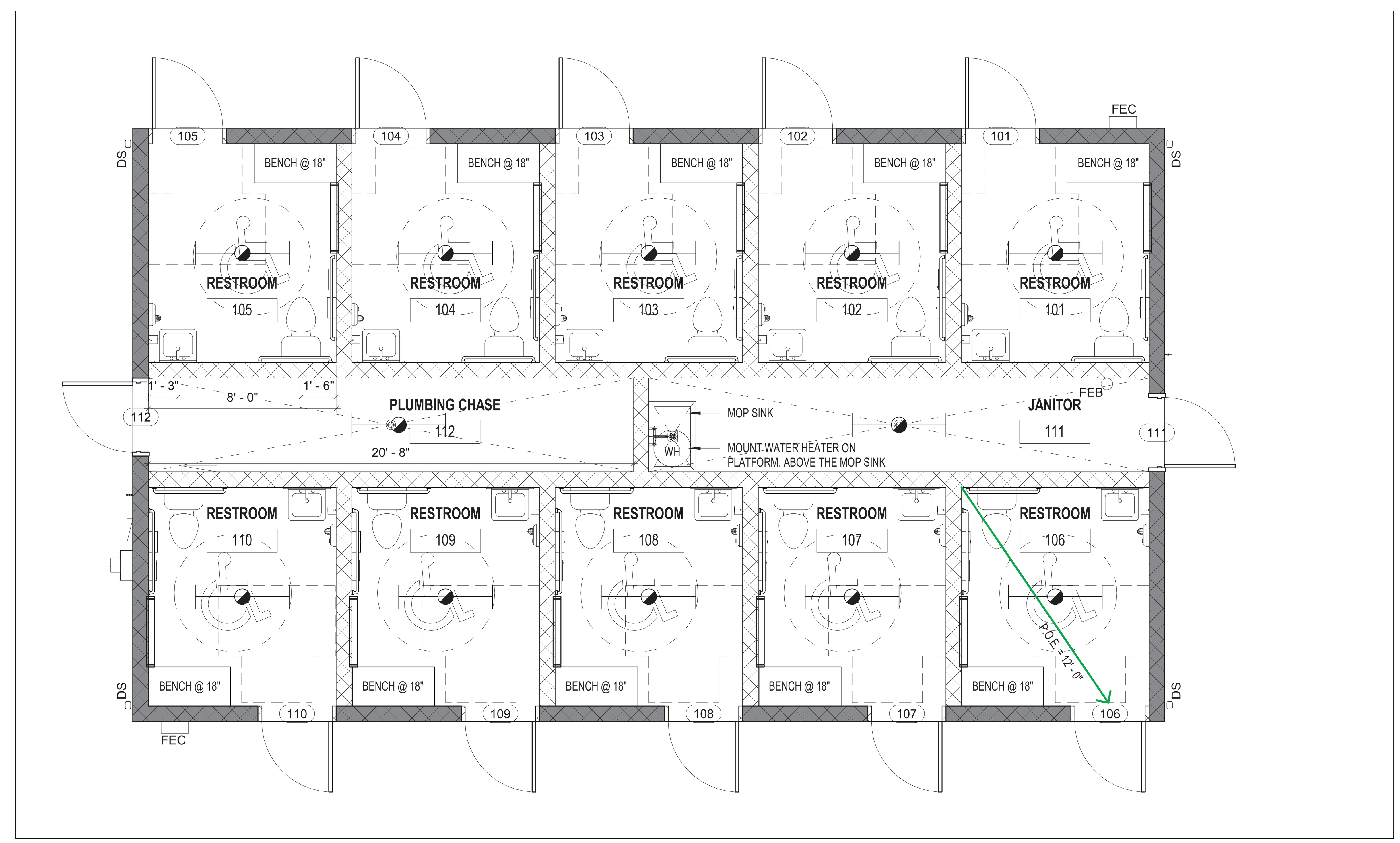
PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

SHEET NO. G103

100% CONTRACT DOCUMENTS

LIFE SAFETY LEGEND

P.O.E. =	PATH OF EGRESS
FEC	FIRE EXTINGUISHER CABINET
FEB	FIRE EXTINGUISHER BRACKET
DS	DOWNSPOUT - CONNECT TO STORMWATER COLLECTION - COORDINATE W/ CIVIL DWGS.
EM	EMERGENCY LIGHTING - (SEE ELECTRICAL LIGHTING PLAN FOR LOCATIONS OF EMERGENCY LIGHTING)



1 LS101 RESTROOM BUILDING - LIFE SAFETY PLAN
1/4" = 1'-0"

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL
		1			3
		2			4

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ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: LIFE SAFETY PLAN

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO. LS101

100% CONTRACT DOCUMENTS

ABBREVIATIONS

"	INCH, INCHES
#	NUMBER OR POUNDS
%	PERCENT
&	AND
'	FOOT, FEET
=	EQUAL
@	AT
°	DEGREE
±	PLUS OR MINUS
ø	DIAMETER
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADD	ADDENDUM
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ANCH	ANCHOR, ANCHORAGE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
AR	ANCHOR ROD
ARCH	ARCHITECT, ARCHITECTURAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATR	ALL THREADED ROD
AWS	AMERICAN WELDING INSTITUTE
BAL	BALANCE
BCX	BOTTOM CHORD EXTENSION
BF	BRACED FRAME
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOD	BOTTOM OF DECK
BOF	BOTTOM OF FOOTING, FOUNDATION
BOS	BOTTOM OF STEEL
BOT, B	BOTTOM
BP PUNCH	BASE PLATE OR BUTTON
BRB BRACE	BUCKLING RESTRAINT
BRG	BEARING
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
(c)	COLLECTOR
C	CAMBER OR CHANNEL
C/C	CENTER TO CENTER
C-GROUT	COURSE GROUT
CANT	CANTILEVER
CF	CUBIC FOOT, FEET
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL, ℄	CENTERLINE
CLR	CLEAR, CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITE OR COMPRESSION
CONC	CONCRETE
CONFIG	CONFIGURATION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CTR	CENTER, CENTERED
CU	CUBIC
CW	CURTAIN WALL
CY	CUBIC YARD
d	PENNY (NAIL)
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DC	DEMAND CRITICAL
DEG, °	DEGREE
DEMO	DEMOLISH, DEMOLITION
DIA	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DISC	DISCONTINUE, DISCONTINUOUS
DL	DEAD LOAD
DN	DOWN
do	DITTO
DP, D	DEEP, DEPTH
DTL	DETAIL
DWG, DWGS	DRAWING, DRAWINGS
DWL, DWLS	DOWEL, DOWELS
EA	EACH
EB	EXPANSION BOLT
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC, ELECT	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT, EMBEDDED
ENGR	ENGINEER
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQP, EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F-GROUT	FINE GROUT
FAB	FABRICATE
FB	FLAT BAR
FBC	FLORIDA BUILDING CODE
FCJ	FLOOR CONTROL JOINT
FDN, FDTN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FIL	FILLET
FIN	FINISH, FINISHED
FLG	FLANGE
FLI	FERRULE LOOP INSERT
FLR	FLOOR
FOB	FACE OF BRICK
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOV	FACE OF VENEER
FOW	FACE OF WALL
FRMG	FRAMING
FS	FAR SIDE
FT	FOOT, FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GLB	GLUE LAMINATED BEAM
GP	GUSSET PLATE
GR	GRADE, GRADING
GWB	GYPSUM WALL BOARD
HAS	HEADED ANCHOR STUD
HCP	HOLLOW CORE PLANK
HCS	HOLLOW CORE SLAB
HDG	HOT DIPPED GALVANIZED
HDR	HEADER
HGR	HANGER
HM	HOLLOW METAL
HORIZ, H	HORIZONTAL
HP	HIGH POINT OR BEARING PILE
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING/VENTILATION/AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ICC-ES	ICC EVALUATION SERVICE
ICMU	INSULATED CONCRETE MASONRY UNIT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IJ	ISOLATION JOINT
IN	INCH, INCHES
INCL	INCLUDED, INCLUDING
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JST	JOIST
JT, JTS	JOINT, JOINTS
K, KIP	KILOPOUND
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE OR LENGTH OR LONG
LAT	LATERAL
LB	LAG BOLT OR POUND
LE	LEFT END
LF	LINEAR FOOT
LFRS	LATERAL FORCE RESISTING SYSTEM
LGT, LONG	LONGITUDINAL
LIB	LOAD INDICATOR BOLT
LIN	LINEAR
LIW	LOAD INDICATOR WASHER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNDG	LANDING
LNTL	LINTEL
LOC	LOCATE, LOCATION
LP	LOW POINT
LSH	LONG SLOTTED HOLE
LSL	LAMINATED STUD LUMBER
LSV	LONG SLOTTED HOLT VERTICAL
LVL	LAMINATED VENEER LUMBER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT (A-307)
MC	MISCELLANEOUS CHANNEL
MCR	MODIFIED CHLOROPRENE RUBBER
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MEZZ	MEZZANINE
MF	MOMENT FRAME
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLB	MICROLAM BEAM
MO	MASONRY OPENING
MPT	MAGNETIC PARTICAL TEST
MT	STRUCTURAL TEE CUT FROM M SECTION
MTL	METAL
N-GROUT	NON-SHRINK GROUT
NIC	NOT IN CONTRACT
NLB	NON-LOAD BEARING
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVERSIZED HOLE
OPNG	OPENING
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
OPT	OPTIONAL
OWJ	OPEN WEB JOIST
PC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PDF	POWER DRIVEN FASTENERS
PEN	PENETRATION
PERIM	PERIMETER
PERP	PERPENDICULAR
PHW	PARTIAL HEIGHT WALL
PJP	PARTIAL JOINT PENETRATION
PL, ⅊	PLATE
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PP	PARTIAL PENETRATION
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PRSTR	PRESTRESSED
PSC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	POINT
PTC	POST TENSION CONCRETE
PT	PRESSURE TREATED TIMBER
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RADIUS
RC	REINFORCED CONCRETE
RE	REFER TO
REF	REFERENCE
REINF	REINFORCE(D), (ING), (MENT)
REQ	REQUIRED
RETG	RETAINING
REV	REVISION, REVISED
RJ	RUSTICATION JOINT
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
S	AMERICAN STANDARD SHAPE
SC	SLIP CRITICAL
SCH, SCHED	SCHEDULE
SEC	SECURITY
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SOG	SLAB ON GRADE
SP	SPACE(S)
SPCG	SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSH	SHORT SLOTTED HOLE
SSPC	SOCIETY FOR PROTECTIVE COATING
ST	STRUCTURAL TEE CUT FROM S SECTION
STD	STANDARD
STGD	STAGGERED
STIFF	STIFFENER
STL	STEEL
STR	STAIR
STRUCT	STRUCTURAL
SUPT	SUPPORT
SW	SHEAR WALL
SYM	SYMMETRICAL
T&B	TOP OF BOTTOM
T&G	TONGUE AND GROOVE
TCX	TOP CHORD EXTENSION
TEMP	TEMPERATURE, TEMPERED, TEMPORARY
TENS	TENSION
THK	THICK, THICKNESS
THRD	THREAD, THREADED
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOCW	TOP OF CONCRETE WALL
TOF	TOP OF FOOTING
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOSLAB	TOP OF SLAB
TOW	TOP OF WALL
TPG	TOPPING
TRA	THREADED ROD IN ADHESIVE ANCHOR
TRANS	TRANSVERSE
TSF	THICKENED SLAB FOOTING
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UFRC	UPSET END FLANGE REBAR COUPLER
UON	UNLESS OTHERWISE NOTED
UT	ULTRASONIC TEST
VERT, V	VERTICAL
VRY	VERIFY
VIF	VERIFY IN FIELD
VMS	VERTICAL MOVEMENT SYSTEM
VNR	VENEER
W	WIDTH OR WIDE FLANGE
W/	WITH
W/O	WITHOUT
WCJ	WALL CONTROL JOINT
WD	WOOD
WF	WIDE FLANGE
WP	WORKING POINT
WPS	WELDING PROCEDURES SPECIFICATIONS
WS	WELD STUD
WT	WEIGHT OR STRUCTURAL TEE CUT FROM W SECTION
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
X-STR	EXTRA STRONG
XX-STR	DOUBLE EXTRA STRONG

STRUCTURAL GENERAL NOTES

1. GENERAL NOTES

1.1. THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE 7th EDITION (2020). THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCE STANDARD APPLIES TO THIS PROJECT. UNLESS OTHERWISE NOTED, ALL WORK AND MATERIALS SHALL CONFORM WITH THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.

1.2. THE CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS, DIMENSIONS, AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS, USE ONLY PRINTED DIMENSIONS. REPORT ANY DISCREPANCIES OR FIELD CONDITIONS ENCOUNTERED IN CONFLICT WITH THE DRAWINGS IN WRITING TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE ARCHITECT OR ENGINEER OF RECORD.

1.3. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE DESIGN, ADEQUACY, SAFETY AND STABILITY OR ERECTION BRACING, FORMWORK, SHORING, AND TEMPORARY SUPPORTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1.4. DETAILS LABELED AS "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION.

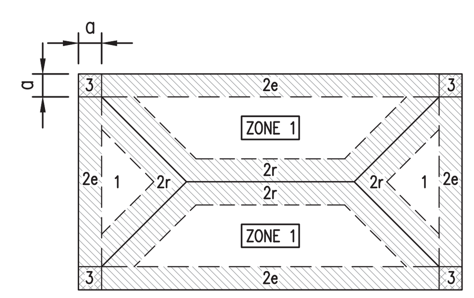
1.5. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK, AND THE GENERAL PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS. THE STRUCTURAL ENGINEER OF RECORD HAS NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION PERSONNEL RELATED TO THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS.

2. DESIGN LOADS

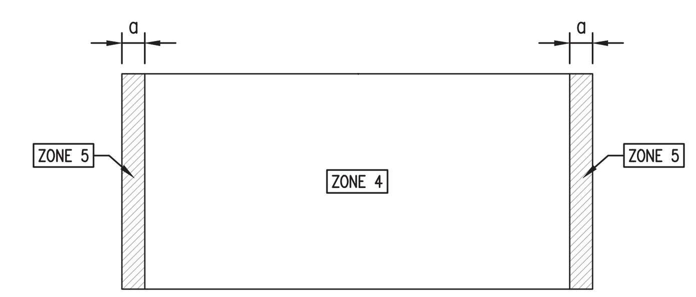
	LIVE LOAD	DEAD LOAD
ROOFS	20 PSF	20 PSF

3. WIND LOAD DESIGN CRITERIA (PER ASCE 7-16)

WIND SPEED (ULT/ASD)	= 120 MPH / 93 MPH
RISK CATEGORY	= II
WIND EXPOSURE CATEGORY	= B
ENCLOSURE CLASSIFICATION	= ENCLOSED
EDGE ZONE WIDTH (a)	= 3'-0"
EAVE HEIGHT (h)	= 10'-0"



BUILDING ROOF PLAN



TYPICAL BUILDING ELEVATION

COMPONENT & CLADDING LOADS – ROOF

TRIB AREA	PRESSURE		OVERHANG PRESSURE
ZONE (1)	ROOF – INTERIOR		
10 SQ. FT.	19.3	-34.7	-41.6
20 SQ. FT.	16.7	-30.7	-41.1
50 SQ. FT.	16.0	-25.5	-40.5
100 SQ. FT.	16.0	-21.5	-40.0
ZONE (2e)	ROOF – INTERIOR EDGE		
10 SQ. FT.	17.7	-47.9	-53.7
20 SQ. FT.	16.0	-42.8	-51.4
50 SQ. FT.	16.0	-36.1	-48.4
100 SQ. FT.	16.0	-31.0	-46.2
ZONE (2r)	ROOF – INTERIOR RIDGE		
10 SQ. FT.	17.7	-47.9	-53.7
20 SQ. FT.	16.0	-42.8	-51.4
50 SQ. FT.	16.0	-36.1	-48.4
100 SQ. FT.	16.0	-31.0	-46.2
ZONE (3)	ROOF – CORNER EDGE		
10 SQ. FT.	17.7	-47.9	-64.3
20 SQ. FT.	16.0	-42.8	-57.1
50 SQ. FT.	16.0	-36.1	-47.5
100 SQ. FT.	16.0	-31.0	-40.2

COMPONENT & CLADDING LOADS – WALLS

TRIB AREA	PRESSURE	
ZONE (4)	WALLS – INTERIOR	
10 SQ. FT.	25.9	-28.1
50 SQ. FT.	24.7	-26.9
200 SQ. FT.	23.2	-25.4
500 SQ. FT.	22.0	-24.2
ZONE (5)	WALLS – CORNER	
10 SQ. FT.	25.9	-34.7
50 SQ. FT.	24.7	-32.4
200 SQ. FT.	23.2	-29.3
500 SQ. FT.	22.0	-26.9

NOTE:
FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOADS MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.

LATERAL WIND RESISTING SYSTEM HAS BEEN DESIGNED FOR THE BUILDING AS A WHOLE (APARTMENTS OR CONDOS) NOT INDIVIDUAL PER UNIT (TOWNHOMES).

4. EARTHWORK FOR STRUCTURES

4.1. ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 PSF ON UNDISTURBED SOILS OR COMPACTED STRUCTURAL FILL. CONTRACTOR SHALL OBTAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO PERFORM ALL NECESSARY TESTING, VERIFY THE BEARING CAPACITY OF THE SOILS, AND MAKE RECOMMENDATIONS FOR SITE PREPARATION.

4.4. UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, ALL SOIL BELOW SLABS ON GRADE AND FOOTINGS SHALL BE COMPACTED TO A DEPTH OF 12 INCHES AT OPTIMUM MOISTURE CONTENT TO 95% OF THE MODIFIED PROCTOR, ASTM D1557. FILL SHALL BE PLACED AND COMPACTED IN LIFTS NO GREATER THAN 12 INCHES.

5. SLAB ON GRADE

5.1. REFER TO GEOTECHNICAL REPORT FOR SUB-GRADE PREPARATION MORE THAN 12 INCHES BELOW BOTTOM OF SLAB.

5.2. ABOVE SUB-GRADE, USE FILL CONTAINING NOT MORE THAN 12% PASSING #200 SIEVE AND MAXIMUM 1"ø. COMPACT TO A DENSITY OF 95% OF THE MAXIMUM DRY DENSITY THROUGHOUT ITS FULL DEPTH AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557.

5.3. ALL INTERIOR AND EXTERIOR SLABS ON GRADE SHALL BE A MINIMUM OF 4 INCHES THICK REINFORCED WITH 6x6 W1.4 x W1.4 WELDED WIRE MESH PLACED ON 6 MIL POLYETHYLENE SHEETING, UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DOCUMENTS.

5.4. UNLESS OTHERWISE NOTED IN THE PLANS, PROVIDE CRACK CONTROL JOINTS AT 15 FEET MAXIMUM TO LIMIT AREAS BETWEEN JOINTS TO 225 SQUARE FEET IN ALL SLABS ON GRADE. LOCATE TO CONFORM TO BAY SPACING WHENEVER POSSIBLE. ADD CRACK CONTROL JOINTS AT RE-ENTRANT CORNERS WHICH TEND TO INVITE CRACKS.

5.5. SEE THE ARCHITECTURAL DRAWINGS FOR SLAB ON GRADE DEPRESSIONS AND OTHER REQUIREMENTS.

6. FORMWORK

6.1. DESIGN, ERECTION AND REMOVAL OF FORMWORK, AND SHORING AND RESHORING IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

6.2. CONSTRUCTION, ERECTION, AND REMOVAL OF FORMWORK SHALL BE IN ACCORDANCE WITH ACI 301 AND 347.

7. REINFORCEMENT

7.1. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60, WITH THE FOLLOWING MINIMUM SPLICE LENGTH.

7.1.1. CONCRETE REINFORCEMENT = SEE PROVIDED LAP SCHEDULE
7.1.2. MASONRY REINFORCEMENT = 48 BAR DIAMETERS U.N.O.

7.2. PROVIDE ADDITIONAL HORIZONTAL CORNER BARS TO MATCH MAIN HORIZONTAL REINFORCING STEEL AT ALL BEAMS, OR WALL INTERSECTIONS, CORNERS AND OTHER CONCRETE DIRECTIONAL CHANGES, INCLUDING FOOTINGS.

7.3. ALL BENDS, AND 90° AND 180° HOOKED BARS SHALL BE FABRICATED IN ACCORDANCE WITH ACI AND AS INDICATED IN THE STANDARD DETAILS.

7.4. REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS.

7.5. WHERE SPECIFIED, PROVIDE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED WIRE REINFORCEMENT CONFORMING TO ASTM A 1064. SUPPLY IN FLAT SHEETS ONLY. LAP SPLICE TWO CROSS WIRES PLUS TWO INCHES.

7. CONCRETE

7.1. ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 301 AND 318 AND CRSI STANDARDS.

7.2. PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS OF:

FOUNDATIONS	3,000 PSI	NW
SLAB ON GRADE	3,000 PSI	NW

7.3. ALL CONCRETE SHALL BE NORMAL WEIGHT (NW), U.O.N. WITH A DESIGN UNIT WEIGHT OF 145 PCF.

7.4. CONTRACTOR SHALL MAKE SETS OF FOUR ACCEPTANCE CYLINDERS FOR STRENGTH TESTING FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED. CYLINDERS SHALL BE MADE IN ACCORDANCE WITH ASTM C31 AND C172. TESTING SHALL BE PERFORMED BY AN ACI CERTIFIED TESTING LABORATORY AND SHALL BE PAID FOR BY THE CONTRACTOR. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF ANY TEST NOT MEETING THE REQUIREMENTS OF THE SPECIFIED TESTS. COPIES OF REPORTS DOCUMENTING THE TEST RESULTS SHALL BE MAINTAINED BY THE CONTRACTOR AND MADE AVAILABLE UPON REQUEST.

7.5. PROVIDE COVER OVER REINFORCING STEEL AS FOLLOWS:

CAST AGAINST & EXPOSED TO EARTH/WEATHER	3"
EXPOSED TO EARTH/WEATHER	
#6 THROUGH #18 REBAR	2"
#5 REBAR, W31/D31 WIRE OR SMALLER	1-1/2"
NOT EXPOSED TO EARTH/WEATHER	
SLABS, WALLS, JOISTS	
#14 AND #18 REBAR	1-1/2"
#11 REBAR AND SMALLER	3/4"
BEAMS AND COLUMNS	
REINF, TIES, STIRRUPS, SPIRALS	1-1/2"

7.6. CURE ALL CONCRETE SURFACES FOR A PERIOD OF SEVEN DAYS UNTIL AVERAGE COMPRESSIVE STRENGTH HAS REACHED 70% OF THE SPECIFIED 28 DAY STRENGTH. CURING SHALL BE BY PONDING, MOIST CURING WITH SAND OR ABSORPTIVE MATS KEPT CONTINUOUSLY WET, CONTINUOUS APPLICATION OF STEAM (NOT EXCEEDING 105° F) OR MIST SPRAY, WATERPROOF CURING PAPER, OR LIQUID MEMBRANE FORMING CURING COMPOUND. SELECTION OF CURING METHOD SHALL BE COMPATIBLE WITH THE FINISH TO BE APPLIED TO THE CONCRETE SURFACE.

7.7. WHERE REINFORCING STEEL CONGESTION PERMITS, CONDUIT AND PIPES UP TO ONE INCH DIAMETER MAY BE EMBEDDED IN CONCRETE PER ACI 318, SECTION 6.3. SPACE AT THREE DIAMETERS ON CENTER. PLACE BETWEEN OUTER LAYERS OF REINFORCING IF CONDUITS ARE SIGNIFICANTLY CONGESTED. ADDITIONAL REINFORCING PERPENDICULAR TO PIPING MAY BE REQUIRED. REQUESTS TO EMBED LARGER PIPES SHOULD BE ACCOMPANIED BY A DETAILED DESCRIPTION AND BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR EVALUATION.

8. CONCRETE MASONRY

8.1. CONCRETE MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM WITH ACI 530.

8.2. COMPRESSIVE STRENGTH OF MASONRY SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY (F'm) SHALL BE A MINIMUM OF 1,500 PSI AT 28 DAYS.

8.3. USE 50% SOLID CONCRETE MASONRY UNITS CONFORMING TO ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1,900 PSI AT 28 DAYS.

8.6. USE TYPE S MORTAR IN ACCORDANCE WITH ASTM C270 EXCEPT USE TYPE M MORTAR BELOW GRADE. HEAD AND BED JOINTS SHALL BE 3/8 INCH FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING 1/2 INCH OR MORE INTO CELLS TO BE GROUTED.

8.7. USE FINE OR COURSE GROUT CONFORMING TO ASTM C476, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI IN 28 DAYS. AGGREGATE SHALL CONFORM TO ASTM C404 FOR GROUT SELECTED, WITH SLUMP OF 8 INCHES TO 11 INCHES.

8.8. ALL REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES, OR OTHER ANCHORS AND ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID IN ACCORDANCE WITH ACI 530.1. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING.

8.9. LAY UP UNITS IN RUNNING BOND UNLESS OTHERWISE NOTED. SAW CUT UNITS WHICH ARE NOT IN MULTIPLES OF 8 INCHES WITH ALL UNITS BEING AT LEAST 8 INCHES LONG. BAND CORNERS BY LAPPING ENDS 8 INCH IN SUCCESSIVE VERTICAL COURSES.

8.10. USE STANDARD (9 GAGE) HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A 82 IN EVERY OTHER COURSE. OVERLAP DISCONTINUOUS ENDS 6 INCHES. USE PREFABRICATED CORNERS AND TEES. USE TRUSS TYPE, EXCEPT USE LADDER TYPE IN WALLS WITH VERTICAL REINFORCING. EXTEND JOINT REINFORCING A MINIMUM OF 4 INCHES INTO TIE COLUMNS.

8.11. UNLESS THE HIGH-LIFT GROUTING PROCEDURE IS USED, GROUT LIFT SHALL NOT EXCEED 5 FEET.

8.12. USE ASTM A 615 GRADE 60 REINFORCING STEEL. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10 FEET ON CENTER WHERE GROUT POUR HEIGHT EXCEEDS 10 FEET.

8.13. AT BOND/TIE BEAM CORNERS AND INTERSECTIONS, PLACE 1 #5 x 5'-0" CORNER BAR, WITH 30 INCH LEGS EACH WAY, AT THE EXTERIOR FACE.

9. PRE-ENGINEERED LIGHT GAUGE TRUSSES

9.1. SUBMIT STRUCTURAL SHOP DRAWINGS AND ALL CALCULATIONS FOR REVIEW AND APPROVAL. ALL SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

9.2. ALL TRUSSES, BRACING, FASTENERS AND OTHER COMPONENTS SHALL BE GALVANIZED, CONFORMING TO ASTM A653 G60 COATING.

9.3. ALL TRUSS MEMBERS SHALL BE IN ONE PLANE, WITH CONNECTION PLATES ON BOTH SIDES OF THE TRUSS. (TRUSSES WITH MEMBERS SCABBED TO THE SIDES OF CHORDS WILL NOT BE PERMITTED)

9.4. SHOP DRAWINGS SHALL INCLUDE A CALCULATION PAGE FOR EACH INDIVIDUAL TRUSS. CALCULATION PAGES SHALL INCLUDE AN ELEVATION OF THE TRUSS, MEMBER SIZES AND GAUGE, LOADING, REACTIONS, TRUSS DEFLECTION, MEMBER BRACING REQUIREMENTS, AND CONNECTION PLATES.

9.5. TRUSSES SHALL BE DESIGNED FOR ACTUAL DEAD LOADS FURNISHED BUT SHALL NOT BE LESS THEN A MINIMUM OF 20 PSF, WHICH INCLUDES A BOTTOM CHORD COLLATERAL LOAD OF 10 PSF.

9.6. THE TOTAL LOAD VERTICAL DEFLECTION SHALL NOT EXCEED L/240 OR 1½"

9.7. ERECTION BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR.

9.8. TRUSS-TO-TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS MANUFACTURE'S REGISTERED PROFESSIONAL ENGINEER AND INDICATED ON THE SHOP DRAWINGS.

9.9. ALL TRUSS TOP CHORD FRAMING MEMBERS IN CONTACT WITH THE METAL DECK SHALL BE 18 GAUGE (0.0451") MIN.

9.10. AT ALL VALLEY AND RIDGE CONDITIONS, PROVIDE A 6"x16 GA CONTINUOUS BENT PLATE FASTENED TO EACH INTERSECTING TRUSS WITH 2-#10 SELF DRILLING SCREWS (PER TRUSS) U.N.O.

9.11. ALL REPAIRS OR MODIFICATIONS OF THE TRUSSES SHALL BE DESIGNED AND CERTIFIED BY THE TRUSS MANUFACTURER'S ENGINEER.

9.12. DURING AND AFTER ERECTION, TOUCH UP ANY DAMAGE TO GALVANIZED SERFACES WITH TWO COATS OF ZINC-BASED TOUCHUP COATING: "ZRC COLD GALVANIZING COUPOUND" MANUFACTURED BY XRC WORLDWIDE. TOUCH UP SHALL INCLUDE ALL CUTS OF MEMBERS AND DRILLED HOLES FOR FASTENERS.

10. METAL ROOF DECK

10.1. METAL ROOF DECK SHALL BE GALVANIZED STEEL DECK WITH THE FOLLOWING MINIMUM PHYSICAL PROPERTIES:

TYPE	WIDE RIB TYPE
DEPTH	1½ INCH
GAUGE	22 (0.0295")
STEEL YIELD STRENGTH	33 KSI
MOMENT OF INERTIA	0.153 IN^4
SECTION MODULUS	0.186 IN^3

10.2. ALL STEEL DECK SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH WITH THE STEEL DECK INSTITUTE

10.3. ALL DECK SHALL BE CONTINUOUS WITH A MINIMUM OF THREE SPANS AT MINIMUM.

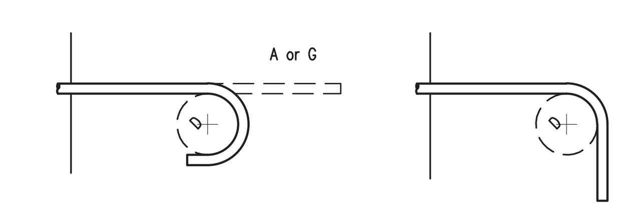
10.4. ALL DECK SHALL BE FABRICATED FROM GALVANIZED SHEETS CONFORMING TO ASTM A653, CLASS G60 COATINGS.

10.5. CONNECT METAL DECK TO STRUCTURAL STEEL BEAMS WITH #12 TEK SCREWS AT 12 INCHES ON CENTER FOR ALL BEAMS WITHOUT HEADED STUDS WELDED THROUGH THE DECK. PROVIDE (1) #10 SIDELAP FASTENERS FOR ALL SPANS.

REBAR LAP SPLICE LENGTHS

BAR SIZE	f'_c = 3,000 PSI		f'_c = 4,000 PSI		f'_c = 5,000 PSI	
	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
#3	16"	21"	14"	18"	13"	17"
#4	22"	28"	19"	25"	17"	22"
#5	27"	36"	24"	31"	21"	28"
#6	33"	43"	28"	37"	25"	33"
#7	48"	62"	42"	54"	37"	48"
#8	55"	71"	47"	62"	42"	55"
#9	62"	80"	54"	70"	48"	62"
#10	70"	90"	60"	78"	54"	70"
#11	77"	100"	67"	87"	60"	78"

REBAR LAP SPLICE NOTES:
1. CLASS B SPLICES SHALL BE PROVIDED FOR ALL COLUMN REINFORCING STEEL.
2. CLASS A SPLICES ARE ALLOWED FOR CONTINUOUS REINFORCING STEEL IF NO MORE THAN 50% OF THE STEEL IS LAPPED AT THE SAME LOCATION.



180° HOOK

90° HOOK

BAR SIZE	STD. HOOK DIMENSIONS				DEVELOP. LENGTHS		
	PIN DIAM.	180° HOOK		90° HOOK	CONC. COMPRESSIVE STRENGTH		
	D	A or G	J	A or G	3,000 PSI	4,000 PSI	4,000 PSI
#3	2¼"	0'-5"	0'-3"	0'-6"	6"	6"	6"
#4	3"	0'-6"	0'-4"	0'-8"	8"	7"	6"
#5	3¾"	0'-7"	0'-5"	0'-10"	10"	9"	8"
#6	4½"	0'-8"	0'-6"	1'-0"	12"	10"	9"
#7	5¼"	0'-10"	0'-7"	1'-2"	14"	12"	11"
#8	6"	0'-11"	0'-8"	1'-4"	16"	14"	12"
#9	9½"	1'-3"	0'-11¾"	1'-8"	18"	15"	14"
#10	10¾"	1'-5"	1'-1¼"	1'-10"	20"	17"	15"
#11	12"	1'-7"	1'-2¾"	2'-1"	22"	19"	17"

REBAR STANDARD HOOK NOTES:
1. D = FINISHED BEND DIAMETERS.
2. REFER TO ACI 315 FOR ALTERNATE BEND PATTERN DIMENSIONS AND REQUIREMENTS.
3. ASTM A767 REQUIRES THAT BARS BENT COLD PRIOR TO HOT DIP GALVANIZING MUST BE FABRICATED TO AMINIMUM BEND DIAMETER EQUAL TO 7 INCHES FOR #7 BAR AND 8 INCHES FOR #8 BAR.

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL
		3			1
		4			2

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

DESIGNER: KSUMNER
DRAWN BY: KSUMNER
REVIEWED BY: PMCKEE
ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 61363C

CONSULTANT:
KEVER MCKEE ENGINEERING
1624 METROPOLITAN BLVD
SUITE A
TALLAHASSEE, FLORIDA 32308
p.: 850.727.5367

PROFESSIONAL REGISTRATION
PATRICK M. McKEE
FL PE 63122

PATRICK M. McKEE LICENSE No 63122 STATE OF FLORIDA PROFESSIONAL ENGINEER

PATRICK M. McKEE, P.E.
KEVER McKEE ENGINEERING
FLORIDA PE No. 63122

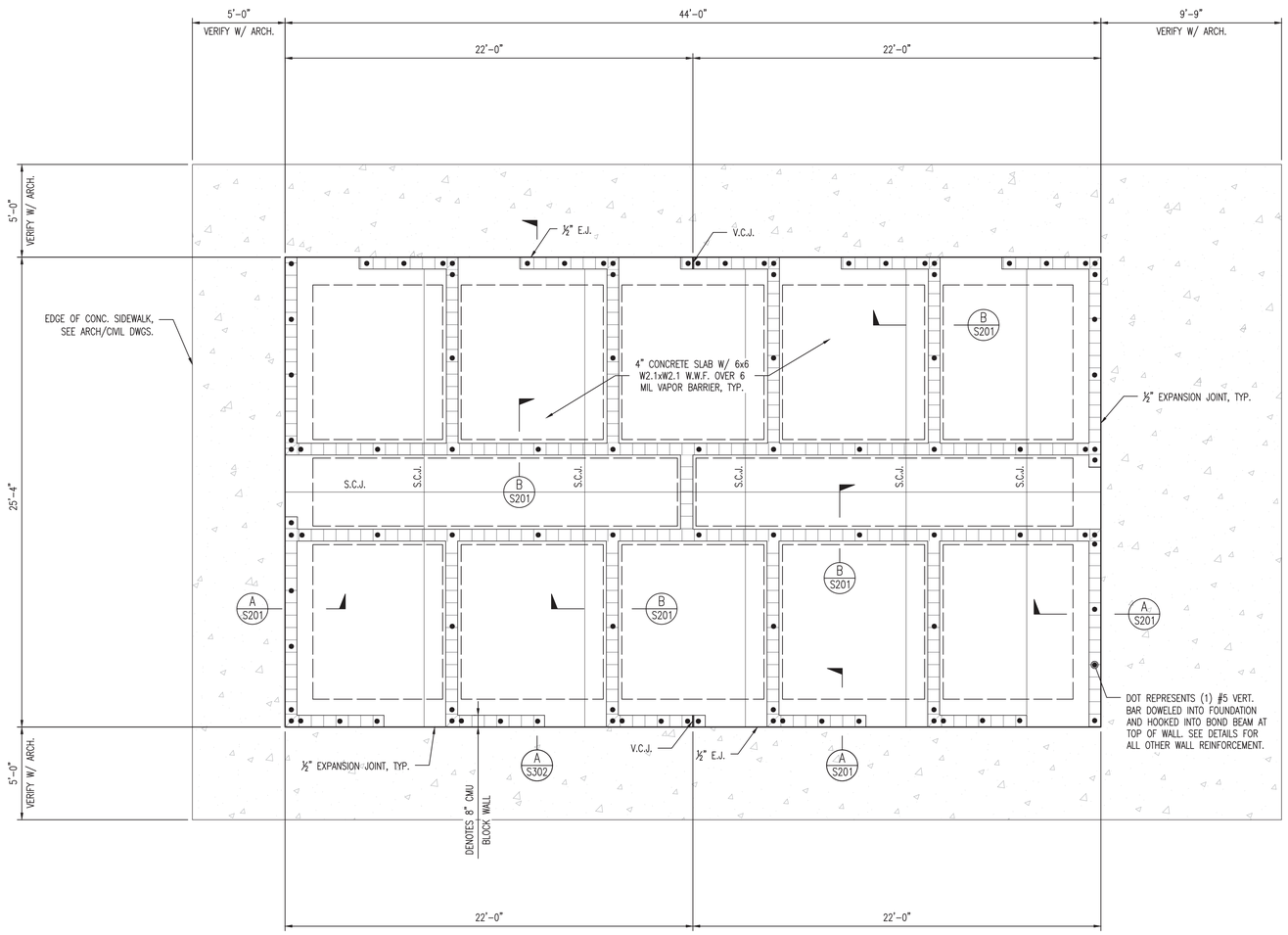
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
STRUCTURAL NOTES

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
S001

100% CONTRACT DOCUMENTS



FOUNDATION PLAN

SCALE: ¼" = 1'-0"

NORTH

NOTES FOR FOUNDATION AND FLOOR PLANS:
(UNLESS INDICATED OTHERWISE):

1. ALL ELEVATIONS ARE RELATIVE TO AN ASSUMED FINISHED FLOOR ELEVATION OF 0.00'.VERIFY ACTUAL ELEVATION WITH CIVIL DRAWINGS.
2. ALL WALLS ON FOOTINGS ARE REINFORCED, LOAD BEARING WALLS, SEE PLAN AND SEE PLAN AND MASONRY DETAILS ON SHEET S401.
3. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF WALLS FOR C.J.'S ALIGNED WITH FACE OF WALLS. U.N.O., ALL OTHER C.J.'S SHALL BE EQUALLY SPACED.
4. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR DETAILS AND EXACT LOCATIONS OF FLOOR RECESSES, FLOOR DRAINS AND OTHER FEATURES.

SYMBOL	REVISION	DATE
1		
2		

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

DESIGNER: KSUMNER
DRAWN BY: KSUMNER
REVIEWED BY: PMCKEE
CONSULTANT:
KEVER MCKEE ENGINEERING
1624 METROPOLITAN BLVD
SUITE A
TALLAHASSEE, FLORIDA 32308
p.: 850.727.5367

ISSUE DATE: 28 MARCH 2023
COMP FILE No.: 18980
STATE PROJECT No.: 6136SC

PROFESSIONAL REGISTRATION
PATRICK M. McKEE
FL PE 63122

PATRICK M. McKEE
No 63122
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PATRICK M. McKEE, P.E.
KEVER McKEE ENGINEERING
FLORIDA PE No. 63122

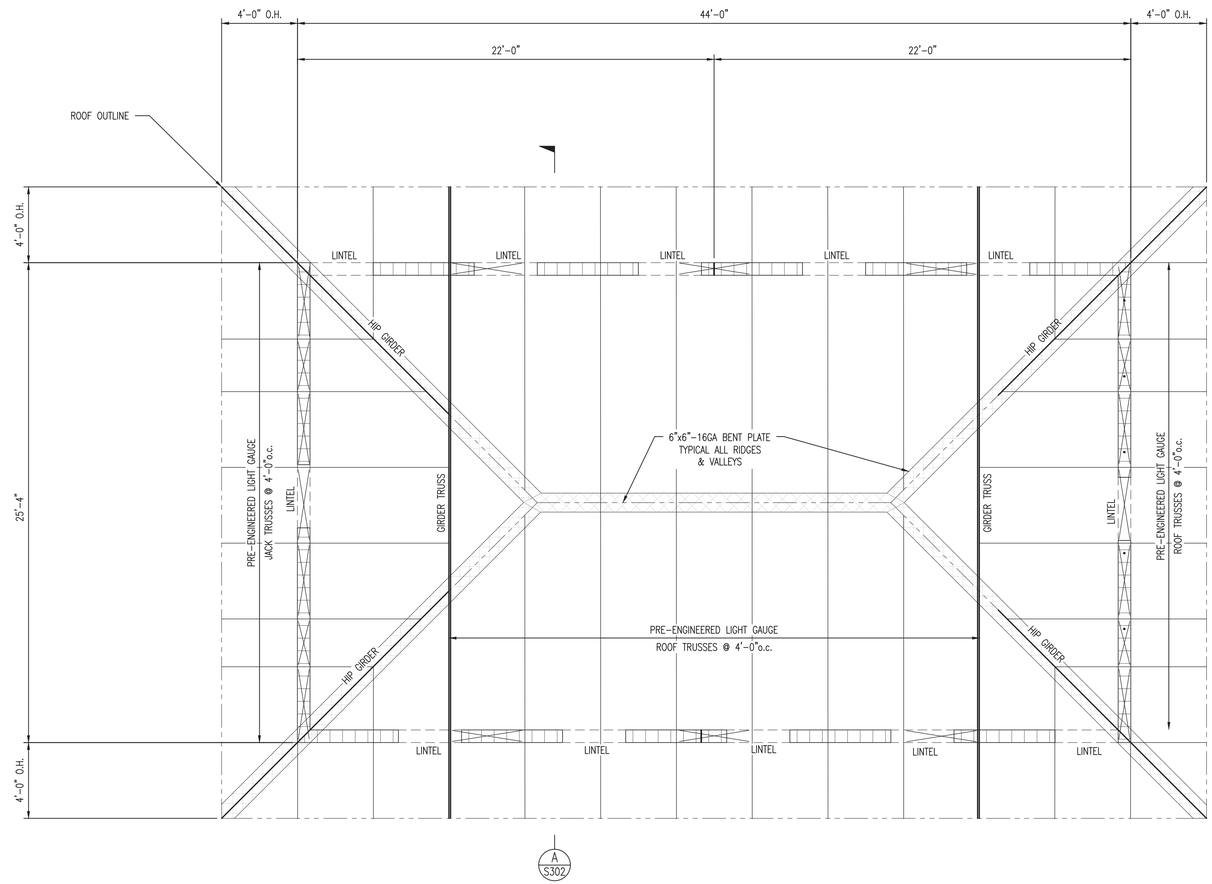
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
FOUNDATION PLAN

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
S101

100% CONTRACT DOCUMENTS



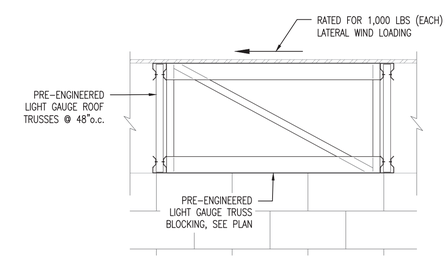
ROOF FRAMING PLAN

SCALE: ¼" = 1'-0"

NORTH

NOTES FOR ROOF FRAMING PLAN:

1. >—< INDICATES PRE-ENGINEERED LIGHT GAUGE TRUSS BLOCKING LOCATION. SEE DETAIL A/S201
2. "LINTEL" DENOTES PRE-CAST LINTEL. SEE LINTEL SCHEDULE ON SHEET S401 FOR SIZING, UNLESS NOTED OTHERWISE ON PLAN.



PRE-ENGINEERED TRUSS BLOCKING DETAIL

SCALE: ¾" = 1'-0"

A
S201

DESIGNER:	KSUMNER
DRAWN BY:	KSUMNER
REVIEWED BY:	PMCKEE
CONSULTANT:	KEVER MCKEE ENGINEERING 1624 METROPOLITAN BLVD SUITE A TALLAHASSEE, FLORIDA 32308 p.: 850.727.5367

ISSUE DATE:	28 MARCH 2023
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STATE PROJECT No.:	6136SC

SYMBOL	REVISION	DATE
1		
2		

SYMBOL	REVISION	DATE
3		
4		

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

PROFESSIONAL REGISTRATION
PATRICK M. McKEE
FL PE 63122

PATRICK M. McKEE
LICENSE
No 63122
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

PATRICK M. McKEE, P.E.
KEVER McKEE ENGINEERING
FLORIDA PE No. 63122

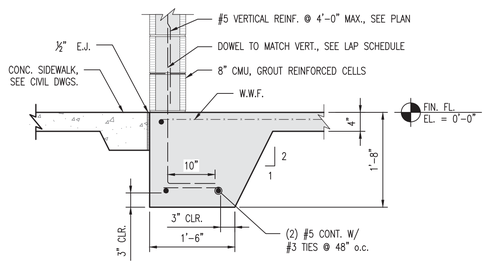
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
ROOF FRAMING PLAN

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

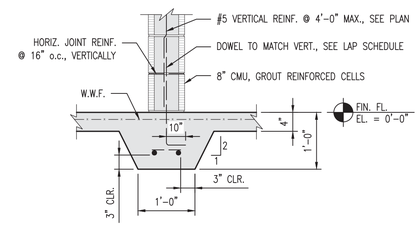
SHEET NO.
S201

100% CONTRACT DOCUMENTS



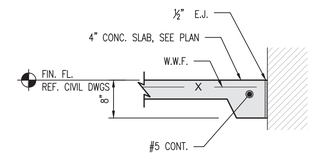
EXTERIOR WALL FTG. DETAIL (A / S301)

SCALE: ¾" = 1'-0"



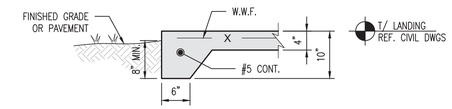
INTERIOR WALL FTG. DETAIL (B / S301)

SCALE: ¾" = 1'-0"



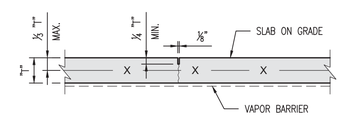
EXPANSION JOINT DETAIL

SCALE: ¾" = 1'-0"



"T" TURNDOWN DETAIL

SCALE: ¾" = 1'-0"



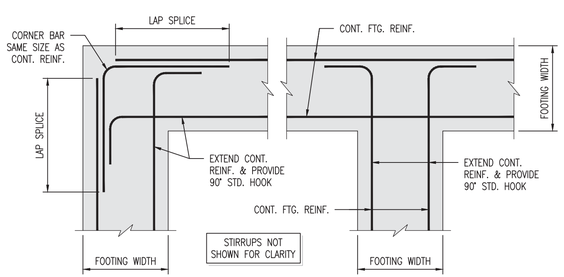
SAWCUT CONTROL JOINT (SCJ)

NOTE: SAWCUT SLAB WITHIN 12 HOURS OF POURING SLAB

NOTES:
1. REFER TO ARCHITECTURAL FLOOR PLANS FOR JOINT LAYOUT AT EXPOSED FLOORS. AT ALL OTHER LOCATIONS, LAY OUT JOINTS WITH MAXIMUM SPACING OF 12'-0" ON CENTER AND A MAXIMUM LENGTH TO WIDTH RATIO FOR JOINT SPACING OF 2:1.
2. RIPS, TEARS, AND HOLES IN VAPOR BARRIERS SHALL BE REPAIRED PRIOR TO PLACING CONCRETE.
3. ALL SLABS SHALL BE CURED WITH A MOISTURE RETAINING COVER FOR A MINIMUM OF SEVEN DAYS.
4. ALL JOINTS SHOWN IN PLANS ARE SCHEMATIC. CONTRACTOR SHALL SUBMIT JOINT LOCATION PLAN FOR ARCHITECTURAL APPROVAL.

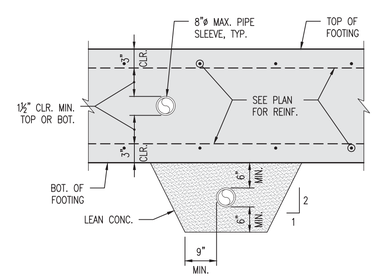
TYP. SLAB ON GRADE DETAILS

SCALE: 1" = 1'-0"

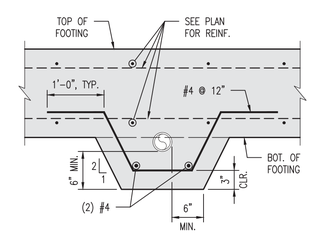


TYP. FTG. INTERSECTION DETAIL

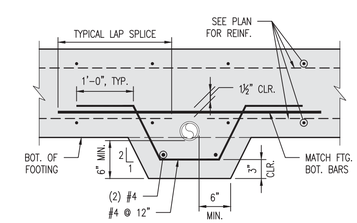
SCALE: ¾" = 1'-0"



PIPE WITHIN OR BELOW FOOTING



PIPE CONFLICTS WITH BOTTOM OF FOOTING



PIPE CONFLICTS WITH FOOTING REINFORCEMENT

TYP. FTG. PENETRATION DETAIL

SCALE: 1" = 1'-0"

SYMBOL	REVISION	DATE
05		
04		

SYMBOL	REVISION	DATE
01		
02		

ISSUE DATE: 28 MARCH 2023
COMP FILE No.: 18980
STATE PROJECT No.: 61363C

DESIGNER: KSUMNER
DRAWN BY: KSUMNER
REVIEWED BY: PMCKEE
CONSULTANT: KEVER MCKEE ENGINEERING, 1624 METROPOLITAN BLVD SUITE A, TALLAHASSEE, FLORIDA 32308, p.: 850.727.5367

PROFESSIONAL REGISTRATION
PATRICK M. McKEE
FL PE 63122

PATRICK M. McKEE, P.E.
KEVER McKEE ENGINEERING
FLORIDA PE No. 63122

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

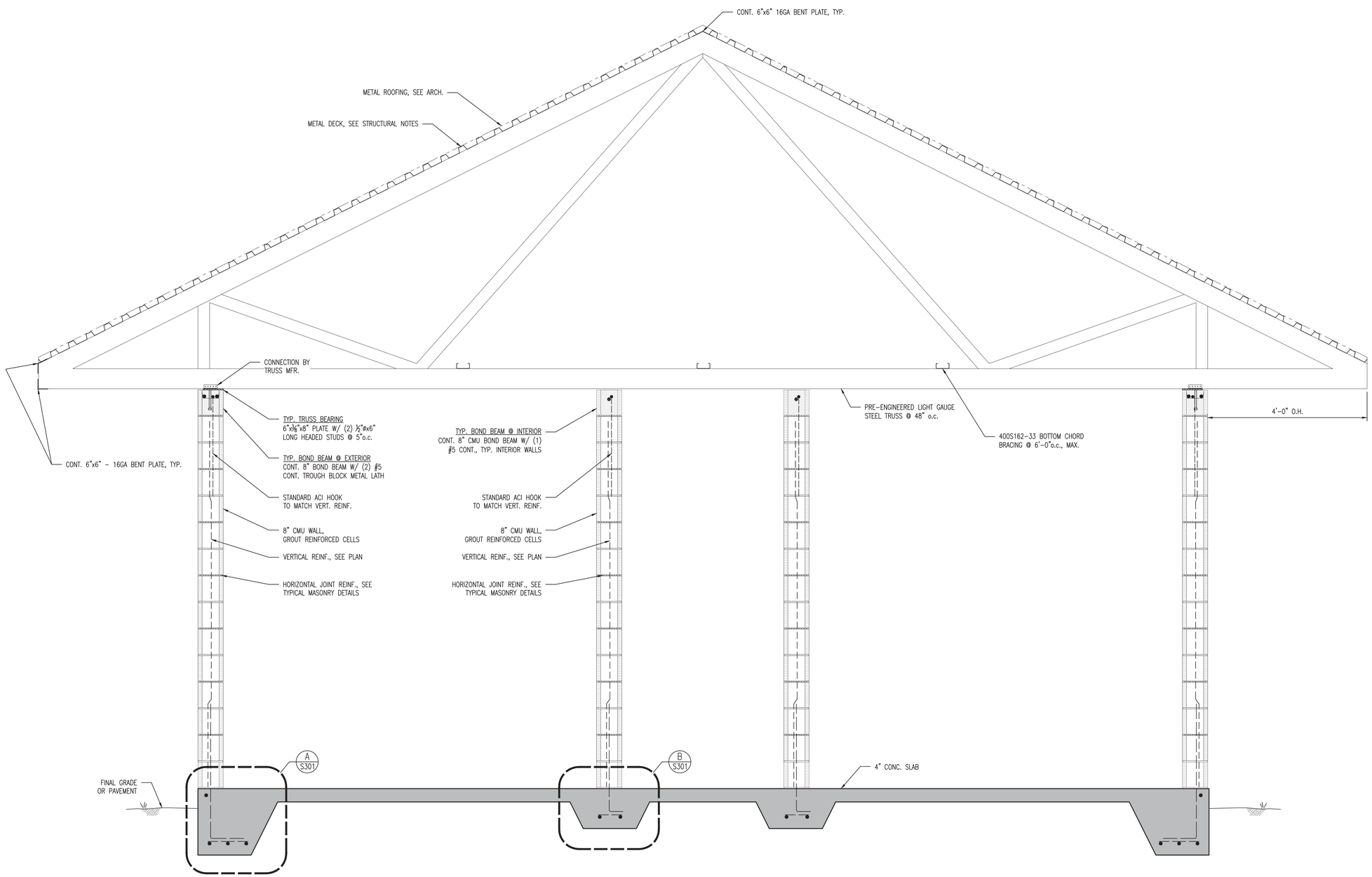
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: FOUNDATION DETAILS

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

SHEET NO. S301

100% CONTRACT DOCUMENTS



TYPICAL BUILDING SECTION (A / S302)

SCALE: ¾" = 1'-0"

SYMBOL	REVISION	DATE
1		
2		

SYMBOL	REVISION	DATE
3		
4		

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Office of Operations
Bureau of Design and Construction
3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

ISSUE DATE: 28 MARCH 2023
COMP FILE No.: 18980
STATE PROJECT No.: 6136SC

DESIGNER: KSUMNER
DRAWN BY: KSUMNER
REVIEWED BY: PMCKEE
CONSULTANT:

KEVER MCKEE ENGINEERING
1624 METROPOLITAN BLVD
SUITE A
TALLAHASSEE, FLORIDA 32308
p.: 850.727.5367

PROFESSIONAL REGISTRATION
PATRICK M. McKEE
FL PE 63122

PATRICK M. McKEE
No. 63122
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PATRICK M. McKEE, P.E.
KEVER McKEE ENGINEERING
FLORIDA PE No. 63122

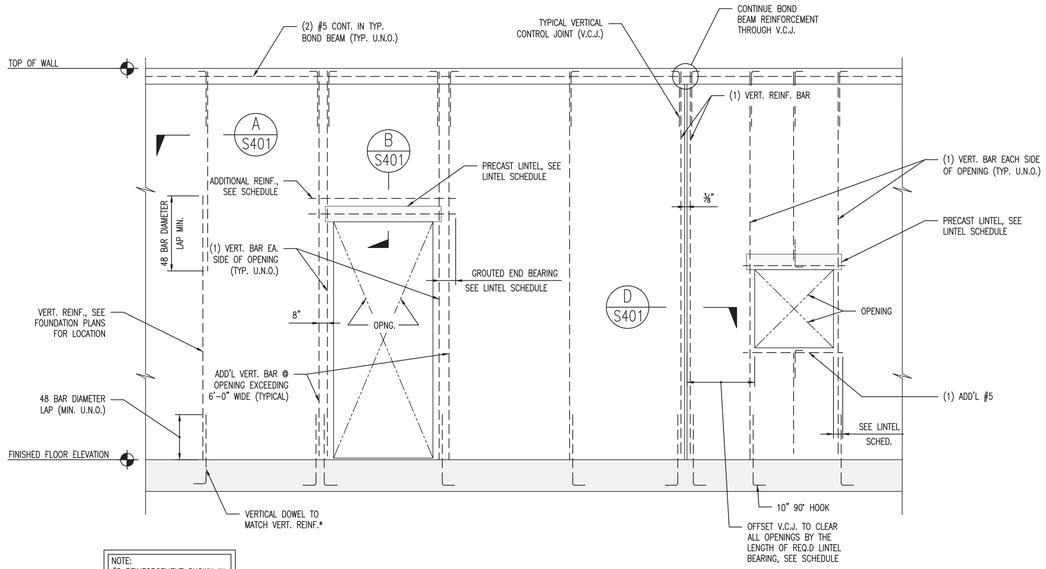
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: TYPICAL BUILDING SECTION

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

SHEET NO. S302

100% CONTRACT DOCUMENTS



NOTE:
#5 REINFORCEMENT SHOWN IN ELEVATION. PROVIDE #6 WHERE INDICATED ON PLAN

TYP. MASONRY WALL REINF. ELEVATION

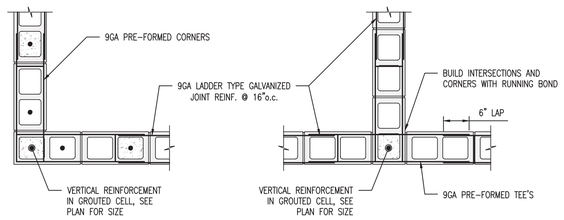
NO SCALE

LINTEL SCHEDULE (EXCEPT AS INDICATED OTHERWISE ON DRAWINGS)

CLEAR SPANS	PRECAST LINTEL TYPE	DEPTH	GROUTED END BEARING	BOTTOM BARS	INTERMEDIATE BARS	TOP BARS
UP TO 2'-0" (INCL.)	PRECAST	8"	8" EA. END	GROUT SOLID	–	–
2'-0" TO 3'-8" (INCL.)	PRECAST	8"	8" EA. END	1 #5	–	–
3'-8" TO 6'-0" (INCL.)	PRECAST	16"	8" EA. END	1 #5	–	–
6'-0" TO 8'-0" (INCL.)	PRECAST	16"	16" EA. END	1 #5	–	1 #5

NOTES:

1. PRECAST LINTELS SHALL BE AS MANUFACTURED BY CAST-CRETE OR APPROVED EQUIVALENT.
2. AT MINIMUM PRECAST LINTELS SHALL HAVE NO LESS THEN 8" BEARING ON JAMB.
3. IF FULL BEARING CANNOT BE OBTAINED, PROVIDE ANGLE BEAM SEAT WELDED SOLID TO STEEL COLUMN WITH BEARING LENGTH OF NOT LESS THAN 6" AND END REACTION OF 5 KIPS. WELD REINFORCING STEEL TO STEEL COLUMN.
4. TOP REINFORCING TO BE 1½" CLEAR FROM TOP OF LINTEL BEAM; BOTTOM REINFORCING TO BE ½" CLEAR FROM BOTTOM OF LINTEL BEAM.
5. REINFORCING STEEL TO HAVE ½" CLEARANCE FROM INTERIOR FACE OF VOID.
6. UNLESS APROVED BY THE E.O.R., DO NOT NOTCH OR CUT LINTEL BEAMS FOR DUCTS, PIPES OR OTHER OPENINGS.

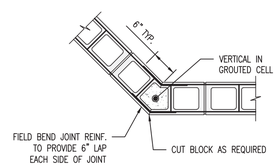


AT CORNER

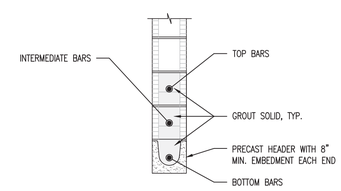
AT INTERSECTIONS

TYPICAL MASONRY WALL REINFORCING DETAILS (A S401)

NO SCALE

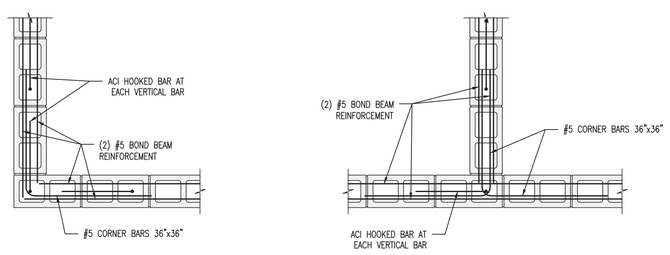


AT ANGLED INTERSECTIONS



TYPICAL LINTEL DETAIL (B S401)

NO SCALE

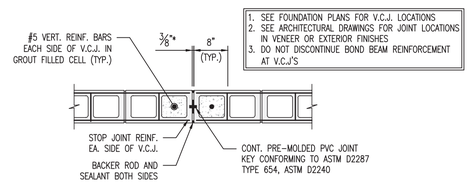


AT CORNER

AT INTERSECTIONS

BOND BEAM REINFORCING DETAILS (C S401)

NO SCALE



1. SEE FOUNDATION PLANS FOR V.C.J. LOCATIONS
2. SEE ARCHITECTURAL DRAWINGS FOR JOINT LOCATIONS IN VENEER OR EXTERIOR FINISHES
3. DO NOT DISCONTINUE BOND BEAM REINFORCEMENT AT V.C.J.'S

VERTICAL CONTROL JOINT DETAIL (D S401)

NO SCALE

SYMBOL	REVISION	DATE
05		
04		

SYMBOL	REVISION	DATE
01		
02		

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

ISSUE DATE: 28 MARCH 2023
COMP FILE No.: 18980
STATE PROJECT No.: 6136SC

DESIGNER: KSUMNER
DRAWN BY: KSUMNER
REVIEWED BY: PMCKEE
CONSULTANT:

KEVER MCKEE ENGINEERING
1624 METROPOLITAN BLVD
SUITE A
TALLAHASSEE, FLORIDA 32308
p.: 850.727.5367

PROFESSIONAL REGISTRATION
PATRICK M. McKEE
FL PE 63122

PATRICK M. McKEE
LICENSE No. 63122
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PATRICK M. McKEE, P.E.
KEVER McKEE ENGINEERING
FLORIDA PE No. 63122

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
TYPICAL MASONRY DETAILS

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
S401

100% CONTRACT DOCUMENTS

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND ACCEPTING THE EXISTING CONDITIONS OF THE SITE PRIOR TO BIDDING.

2. ALL DISTURBED AREAS WITHIN THE LIMITS OF RESTORATION SHALL BE REVEGETATED AS SPECIFIED BY THE PARK SERVICE BIOLOGIST.

3. EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL ENSURE THAT THE UTILITY SYSTEMS DO NOT CONFLICT WITH THE PROPOSED PROJECT. CONFLICTS SHALL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES IN CONFLICT WITH THE WORK, CONSTRUCTION OF TEMPORARY UTILITIES IN THE EVENT THAT EXISTING UTILITY SERVICE MUST BE INTERRUPTED AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES THAT MAY AFFECT EXISTING OR PROPOSED UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS, AVAILABLE RECORDS, AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS, INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR WILL MAKE IS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL GRADE STAKES, LINES AND LEVELS.

6. THE CONTRACTOR SHALL SOLID SOD ALL DISTURBED AREAS UNLESS OTHERWISE SPECIFIED OR SHOWN.

7. NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING. THE COSTS FOR DEWATERING ARE INCLUDED IN THE UNIT PRICES FOR CONSTRUCTING THIS PROJECT.

8. ALL AREAS, STREETS, DRIVEWAYS, PARKING LOTS, ETC. DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL OR BETTER CONDITION.

9. THE CONTRACTOR WILL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND WILL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE OWNER AND THOSE PERMITS OBTAINED BY THE CONTRACTOR.

10. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT TO THE OWNER'S PROJECT MANAGER A SCHEDULE OF VALUES, A CONSTRUCTION SCHEDULE, AND A SAFETY PLAN.

11. THE CONSTRUCTION SCHEDULE WILL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK. THE SCHEDULE IS TO BE APPROVED BY THE OWNER'S PROJECT MANAGER, AND WILL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. PAYMENT FOR PREPARING, UPDATING AND SUBMITTING THE SCHEDULE WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION OR OTHER PAY ITEMS AS APPROPRIATE.

12. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR APPROVAL BY THE OWNER'S PROJECT MANAGER AND WILL ADDRESS THE INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL DEVICES TO BE USED DURING EACH PHASE OF CONSTRUCTION, INCLUDING TREE REMOVAL, CLEARING AND GRUBBING, EXCAVATION, HAULING OF EXCAVATED MATERIALS, AND PLACEMENT OF EMBANKMENT AND BACKFILL. THE PLAN ALSO WILL DETAIL THE EROSION CONTROL MEASURES TO BE EMPLOYED AT ALL STOCKPILE AND CONSTRUCTION STAGING AREAS AND WILL DEFINE THE MAXIMUM LIMITS OF ALL ACTIVE CONSTRUCTION ZONES.

13. ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND:

FDEP, BUREAU OF SURVEY AND MAPPING, MS 105
3900 COMMONWEALTH BLVD.
TALLAHASSEE, FLORIDA 32399
(850) 245-2606 (OFFICE)
(850) 245-2645 (FAX)

14. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR WILL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. THE CONTRACTOR WILL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.

15. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.

16. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF VEGETATION ON AND ADJACENT TO THE PROJECT SITE, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED EXCEPT THOSE TREES IDENTIFIED ON THE PLANS TO BE REMOVED. ALL TREES OUTSIDE THE CONSTRUCTION WORK ZONE ARE TO BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE BARRICADES WILL BE INSTALLED AND MAINTAINED AROUND ALL TREES TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT MANAGER.

17. THE CONTRACTOR IS RESPONSIBLE TO PLACE AND MAINTAIN ROADSIDE WARNING SIGNS WHEN WORK IS BEING CONDUCTED IN THE PROPERTY RIGHT OF WAY OR WHEN MACHINERY IS ENTERING AND LEAVING THE PROJECT SITE.

18. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF EXCAVATED MATERIAL OFF-SITE UNLESS OTHERWISE DIRECTED BY THE PROJECT MANAGER.

EROSION CONTROL NOTES:

1. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

2. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED DAILY AND REPAIRS MADE AS NECESSARY TO ENSURE THE PROPER AND CONTINUED FUNCTION OF THE CONTROL(S).

3. ALL EROSION AND SEDIMENTATION CONTROL SHALL REMAIN IN PLACE UNTIL A PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED.

4. UNDER NO CIRCUMSTANCES SHALL SEDIMENTS BE PERMITTED TO EXIT THE PROJECT LIMITS, INCLUDING TRACKING BY VEHICLES ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS OR ENHANCEMENTS TO ANY EROSION CONTROL SYSTEM THAT ALLOWS THE RELEASE OF SEDIMENTS.

01 GENERAL REQUIREMENTS

Comply with the requirements of the Agreement between the Department of Environmental Protection and the Contractor for the ICHETUCKNEE SPRINGS STATE PARK**.**

Summary of work:

This Work consists of all work necessary to construct Day Use Restroom at Gilchrist Blue Springs State Park as shown on the 100% Construction Documents titled Department of Environmental Protection Day Use Restroom by Barnett Fronczak Barlowe & Shuler Architects. The Work includes, but is not limited to, sitework, site utilities, cast-in-place concrete, masonry walls, light gauge metal trusses, plywood sheathing, standing seam metal roofing, tubular skylights, fiber-cement soffits and trim, aluminum louvers, abuse resistant fiber cement panels, hollow metal doors and frames, finish hardware, toilet partitions, toilet accessories, sealants and caulking, painting, signage, new plumbing fixtures and accessories, exhaust systems, lighting and electrical work.

Comply with requirements of applicable product or trade standards, except when more rigid requirements are specified or are required by applicable codes. Substitutions are allowed for all products and materials specified below, unless otherwise noted.

Substitutions: Adhere to the substitution requirements of FDEP.

The following specifications are general in nature and apply only where applicable, as shown on the Drawings.

02 DEMOLITION AND SITE WORK

Protection of Existing: Provide protection for all existing elements in the Project and in the Work Area. Provide dust and debris containment barriers protecting existing areas as needed. Coordinate location and type of protection with Architect and Site Manager.

Coordinate access and time of work with the Site Manager.

03 CONCRETE

See Structural Drawings

04 MASONRY

See Structural Drawings for design loads, foundation notes, design details and general conditions.

Echelon Coastal Oldcastle (813) 255-4737 - 325 North Street - Longwood Florida 32750

Exterior Walls: Basis of Design for masonry wall shall be Echelon Masonry Split Face - Standard Split Face Colors. NOTE: All block sides connected to the door and louver jambs, etc.; will be required to have a smooth face solid color.
Interior Walls: Basis of Design for masonry wall shall be Echelon Masonry Smooth Face Finish Solid Color - Standard Smooth Face Solid Colors.

Submit color samples for selection from manufacturer's product line. Submit product literature, certifications, test reports and full size sample(s) of each color specified. Certifications: Concrete blocks for grinding shall conform to ASTM C90. Colored matching or contrasting mortar is available from manufacturer.

Units shall be delivered to the jobsite on wooden pallets. Store pallets on level ground and cover with waterproof covering (e.g., tarpaulins) to protect the blocks from inclement weather. Handle blocks carefully to avoid breakage and damage to the finished surfaces. Protection of Work: Cover walls each day after installation to keep open walls protected and dry. After units are installed they should be protected from damage by other trades performing operations that can stain or damage.

Carefully following manufacturer's instructions, use Custom Masonry Cleaner and Burnished Custom Masonry Cleaner by PROSOCO (dilute 1 part to 3 parts clean water). Available from manufacturer. DO NOT POWERWASH. CAUTION! Never use Muriatic Acid solution or any cleaner with an acid base on units.

Draw blocks from more than one pallet at a time during installation. All exterior mortar shall include manufacturer approved matching water repellent additive added to each batch in the appropriate dosage rates for mortar type (M, S or N) per manufacturer's instructions. See MFG instructions for hot and cold weather construction practices.

Lay units using the best concrete masonry practices. Install only quality units; reject all defective units as defined by ASTM C90. Lay blocks with the faces level, plumb and true to the line strung horizontally at the ground or filled and polished face. Units shall have uniform, 3/8"-wide joints both horizontally and vertically on the finished side of the wall. Tool joints neatly after they are finger-hard to make them straight and uniform. Size and place cut pieces appropriately to maintain consistency and bond. Complete masonry construction using procedures and workmanship consistent with the best masonry practices.

Cutting: Make all unit cuts, including those for bonding, holes, boxes, etc., with motor-driven masonry saws, using either an abrasive or diamond blade. Cut neatly and locate for best appearance. Lay units with full mortar coverage on head and bed joints taking care not to block cores to be grouted or filled with masonry insulation. Tool all mortar joints when thumbprint hard into a concave configuration. Care should be taken to remove mortar from the face of masonry units before it sets. Tuck-point the joints of scored units for proper appearance. All exterior scored units must be tuck-pointed to prevent water penetration. NO RAKE JOINTS.

The faces shall conform to the requirements of ASTM C90 when viewed from a distance of twenty (20) feet at right angles to the wall with normal lighting. Install flashing at locations shown in the plans and in strict accordance with the details and the best masonry flashing practices.

Keep walls clean daily during installation using brushes, rags and the burlap squares supplied on the pallets. Do not allow excess mortar lumps or smears to harden on the finished surfaces. Harsh cleaning methods after walls have been erected will mar the surface of the blocks.

05 METALS

See Structural Drawings for design loads, foundation notes, design details and general conditions.

Pipe and Tube Railings: Provide aluminum pipe and tube railings as shown on the Drawings. Bend members at changes in direction and weld all connections. Finish shall be Class I clear anodic finish.

Provide 2 inch square aluminum infill panels with 0.2500 " wire, square weave and weighing 0.6 lbs. Per SF. Basis of Design product shall be McNichols Item No. 3793920041 or comparable product acceptable to FDEP.

Contractor is provide shop drawings to architect for approval.

06 WOOD AND PLASTICS

Rough Carpentry: Provide all wood roof sheathing, grounds, nailers and blocking. Comply with PS 20 "American Softwood Lumber Standard" and PS 1 "U.S. Product Standard for Construction and Industrial Plywood," dressed S4S, 19% max. moisture content. No. 2 grade or better. Install wood grounds, nailers and blocking where required for attaching of other work. Form to shapes required for true level and line of attached work. Coordinate locations with other work involved.

Nails, Wire Brads and staples shall comply with FS FF-N-105 and wood screws shall comply with ASME B18.6.1

Plywood backing panels for electrical panels shall be screwed to supports.

Interior Finish Carpentry: Provide Architectural wood benches and solid surface material countertops as shown on the Drawings.

Provide finish carpentry that complies with AWI premium grade construction. Provide product data, details and shop drawings consisting of dimensioned plans and elevations, large scale details, attachment devices and other components. Provide samples of solid surfacing materials and lumber products stained to match Architects sample.

For countertops, provide homogeneous solid surfacing sheets by Avonite, Formica, or Wilsonart, 3/4" thick bonded to plywood with manufacturer's recommended adhesive. Provide 3/4" solid surfacing backsplashes (Architect to select color).

07 THERMAL AND MOISTURE PROTECTION

Building Insulation: Closed-Cell Spray Polyurethane Foam: ASTM C1029, Type II, minimum density of 2.0 lb/cu ft (32kg/cu m)

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Icynene (Basis of Design), BASF Corporation, Certain Teed Corporation, Dow Chemical Company or other Architect approved product.
2. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
   a. Flame-Spread Index: 25.
   b. Smoke-Developed Index: 450 or less.
3. Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly.
   a. Provide a 6" average thickness (R=38) of foam.

Masonry Insulation: Vermiculite loose insulation - Basis of Design: Zonolite Masonry insulation.

Weather Barriers: Provide Butyl Rubber, flexible underlayment and flashing under all surfaces of Standing Seam Sheet Metal Roofing panels. Material shall be composite, self adhesive product such as Grace Ice and Water Shield-HT, Polyglass Polystick TU Plus, Tamko TW Metal and Tile Underlayment, Atlas Weathermaster Polyseal, Carlisle WIP 300HT, Dewitt Products Lite N Smooth, Owens Corning Weatherlock, MFM Ultra HT Wind & Water, Mid-States Asphalt Quick Stick HT, Resisto/Soprema Lastobond Shield HT, TARCO Leak Barrier PS200HT, Titanium PSU-30, or other product approved in writing by FDEP.

Standing-Seam Metal Roof Panels: Provide standing seam metal roof panels as shown on the Drawings. Provide Vertical Rib, Seamed-Joint metal roof panels formed with vertical ribs at panel edges and a flat pan between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of the panels, engaging the opposite edge of adjacent panels, and mechanically seaming panels together.

Acceptable systems are the Englert Series S2000 and Petersen Snap-Clad system.

Provide 0.040 inch thick aluminum sheet with snaplock seams. Panels shall coated with the manufacturers standard fluoropolymer 2-coat system with topcoat containing not less than 70% polyvinylidene fluoride resin by weight, complying with AAMA 2604. Panel coverage shall be 16 inches with a panel height of 1.75 inches.

Examine substrates for compliance with requirements of manufacturer. Provide self-adhering underlayment prior to installation of panels. Install metal roof panels, trim and accessories to comply with manufacturer's written installation instructions applicable to products and applications indicated.

Fiber-Cement Wood Trim and Soffits: Provide ASTM C 1186, Type A, Grade II, noncombustible fiber board by James Hardie Building Products, Inc. or comparable product acceptable to the Architect. Provide soffit materials not less than 5/16" thick, smooth textured to receive paint. Provide 25 year Special Warranty to repair or replace products that fail in materials or workmanship

Provide fiber-cement wood trim and non-vented soffits, accessories, starter strips, edge trim, outside and inside corner strips and other items as manufactured by fiber cement manufacturer for configuration as shown on the Drawings. Provide aluminum flashing at windows and door heads. Provide ribbed bugle-head screws of sufficient length to penetrate a minimum of 1 inch into substrate.

Examine substrates for compliance with requirements of manufacturer. Install non-vented soffits, trim and accessories to comply with manufacturer's written installation instructions applicable to products and applications indicated.

Sheet Metal Flashing and Trim: Provide sheet metal flashing and trim to withstand wind loads, structural movement, thermally induced movement and exposure to weather.

Fabricate sheet metal flashing and trim to comply with recommendations of SMACNA's "Architectural Sheet Metal Manual" that apply to the design, dimension, metal, and other characteristics of the item indicated. Fabricate cleats and attachment devices from same material as sheet metal component being anchored or from compatible , noncorrosive metal recommended by sheet metal manufacturer.

Fabricate all flashing materials from aluminum. Flashing thickness shall be 0.032 inch minimum.

Sealants and Caulking: Provide Nonstaining, Silicone sealant, single component for all exterior applications. Joint sealant shall be neutral curing, non-traffic to comply with ASTM C 920, Type S, Grade NS, Class 50.

Provide mildew-resistant joint sealants at all joints between plumbing fixtures and adjoining walls, floors and counters and all tile control and expansion joints.

Provide Acrylic latex joint sealants at perimeter joints between interior wall surfaces and frames of interior doors and other joint as indicated on the Drawings

Mildew-resistant joint sealants shall be Dow Corning 786-M White or comparable product approved by the Architect .

Acrylic latex joint sealants shall be Tremco Incorporated Tremflex 834 or comparable product approved by the Architect .

Silicone joint sealants shall be Dow Corning 795 or comparable product approved by the Architect.

Sealants Below Grade: SONOLASTIC© POLYSULFIDE SEALANT or equal. High-performance electrometric nonsag sealant. Multi-component, high-performance, low-modulus polysulfide sealant. Electrometric properties allow +25% joint movement. Withstands constant water immersion. No degrade under limited chemical exposure.

Water Repellent: Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II Water Repellent Specification or equal. A clear-drying, water- based silicone emulsion for weatherproofing concrete block and other porous masonry materials and protecting them from graffiti attacks without altering the natural appearance. Blok-Guard® & Graffiti Control II is appropriate for interior and exterior use. Blok-Guard® & Graffiti Control II is easy to apply with low-pressure spray, brush or roller, and protects exterior walls exposed to normal weathering. Graffiti removal from treated surfaces is fast and easy using Defacer Eraser® Graffiti Wipe. Adhere to mfg techincal specifications for application. Test a minimum 4 ft.by 4 ft. area on each type of masonry. Use the manufacturer's application instructions. Let protective treatment test area cure before inspection. Keep test panels available for comparison throughout the protective treatment project.

08 DOORS AND WINDOWS

Steel Doors and Frames: Comply with Steel Door Institute "Recommended Specification for Standard Steel Doors and Frames" ANSI A250.8. And ANSI A250.4, Level 3 and Physical Performance Level A (Extra Heavy Duty) Model 1 (Full Flush) for exterior doors. Provide G90 galvanized units in all doors and in areas exposed to moisture. Frames shall be minimum 14 gauge with mitered and welded corners.
Provide prime painted finish, manufacturer's standard factory applied coat of rust inhibiting primer complying with ANSI 250.10.

Finish Hardware: Provide door hardware for swinging doors as scheduled on the Drawings.

Hinges shall be Stanley FBB168 Series, US26D 4-1/2 x 4-1/2.

Provide weatherstripping and aluminum thresholds at all exterior doors.

09 FINISHES

Gypsum Board Assemblies: Provide abuse resistant interior gypsum wallboard as shown on the Drawings.

Interior gypsum wallboard ceiling panels shall be Fiberock Aqua-Tough Abuse Resistant gypsum panels as manufactured by United States Gypsum, 5/8" thickness installed on 3/4" furring channels spaced a maximum 16" on center. Screw attach ceiling panels to metal furring. Joint treatment materials shall comply with ASTM C 475 and shall be setting type sandable compound for taping and all purpose joint compound as recommended by the manufacturer for finishing.

Painting: The Scope of Work includes painting all exposed interior and exterior surfaces. Painting includes field painting of exposed bare and covered pipes and ducts, hangers, exposed steel and iron work, and primed metal surfaces of mechanical and electrical equipment.

Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts and labels

Examine substrates, areas and conditions under which painting will be performed for compliance with paint application requirements. Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition. Provide barrier coats over incompatible primers or remove and reprime. Provide block fillers, primers, undercoats and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied. Provide the following finish systems. Paint materials shall be best quality products by Benjamin Moore, or FDEP approved equal:

Gypsum fiber ceiling panels: Provide 2 coats latex egg shell latex enamel over a primer.

Ferrous metal (interior and exterior): Provide 2 coats full Alkyd-Enamel finish over an enamel undercoater and a primer.

Exterior Wood and Fiber Cement Soffits : Provide 2 coats Full-Gloss, Alkyd-Enamel finish over Exterior Alkyd Wood Primer.

Provide Samples, and Color selection palette, for all Finish Materials.

10 SPECIALTIES

Louvers and Vents: Provide aluminum wall and door louvers as shown on the Drawings. Wall louvers shall be fixed-blade louvers with extruded aluminum frames and blades, 6" deep with a frame and blade thickness not less than 0.081 inch. Provide aluminum louver insect screens on inside face of louver.

Toilet Partitions: Provide solid polymer toilet partitions and privacy screens as delineated on the Drawing. Acceptable manufacturer's are Ampco, Santana or comparable product approved by the Architect. Pilasters shall be floor and ceiling attached. Provide integral hinges from door and pilaster material with exposed metal parts on interior of stall.

Provide combination coat hook, bumper. Provide outswinging doors with second door pull and door stop. Pilaster sleeves shall be one piece molded HPDE secured to pilasters. Wall brackets shall be extruded PVC fastened to pilasters and brackets with tamper proof fasteners.

Toilet Accessories: Provide toilet accessories as delineated on the Drawings. Prior to ordering of accessories, verify with Owner Product designations and operation. Coordinate accessory locations with other Work to prevent interference with clearances required for access by disabled persons, proper installation, adjustment, operation, cleaning and servicing of accessories.

Mirrors shall be warranted for a minimum of 15 years from date of Substantial Completion.

Install accessories according to manufacturer's written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units lever, plumb, and firmly anchored in locations and at heights indicated.

Fire Extinguishers: Provide 5 lb. unit with 3A40BC rating standard. Provide one fire extinguisher in locations shown on the Drawings.

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
1			3		
2			4		

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

DESIGNER: DSHULER
DRAWN BY: JHIGHTOWER
REVIEWED BY: DSHULER
CONSULTANT: BARNETT BRONZAK BARLOWE & SHULER ARCHITECTS

ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 61363C

BFBS ARCHITECTS
2074 CENTRE POINTE BLVD
SUITE 200
TALLAHASSEE, FLORIDA 32308
p.: 850.224-6301

PROFESSIONAL REGISTRATION
RAY DOUGLAS SHULER
FL AR 96069

STATE OF FLORIDA
RAY DOUGLAS SHULER
AR 96069
REGISTERED ARCHITECT

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
ARCHITECTURAL SPECIFICATIONS

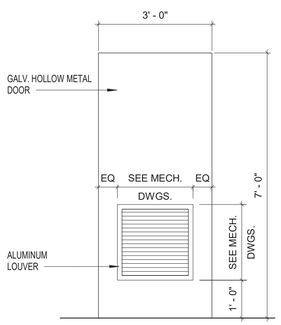
PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
A100

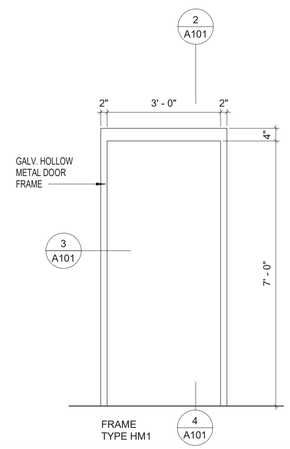
100% CONTRACT DOCUMENTS

DOOR SCHEDULE

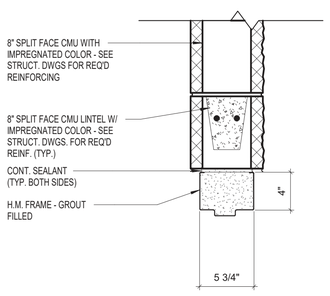
NO.	W	H	THK	DR TYPE	DR FIN	FR TYPE	FR FIN	HDWR SET	HEAD DET	JAMB DET	SILL DET	REMARKS
101	3' - 0"	7' - 0"	1 3/4"	237	PAINT	HM1	PAINT	PRIVACY	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
102	3' - 0"	7' - 0"	1 3/4"	237	PAINT	HM1	PAINT	PRIVACY	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
103	3' - 0"	7' - 0"	1 3/4"	237	PAINT	HM1	PAINT	PRIVACY	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
104	3' - 0"	7' - 0"	1 3/4"	237	PAINT	HM1	PAINT	PRIVACY	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
105	3' - 0"	7' - 0"	1 3/4"	237	PAINT	HM1	PAINT	PRIVACY	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
106	3' - 0"	7' - 0"	1 3/4"	237	PAINT	HM1	PAINT	PRIVACY	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
107	3' - 0"	7' - 0"	1 3/4"	237	PAINT	HM1	PAINT	PRIVACY	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
108	3' - 0"	7' - 0"	1 3/4"	237	PAINT	HM1	PAINT	PRIVACY	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
109	3' - 0"	7' - 0"	1 3/4"	237	PAINT	HM1	PAINT	PRIVACY	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
110	3' - 0"	7' - 0"	1 3/4"	237	PAINT	HM1	PAINT	PRIVACY	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
111	3' - 0"	7' - 0"	1 3/4"	HL	PAINT	HM1	PAINT	STORAGE	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM
112	3' - 0"	7' - 0"	1 3/4"	HL	PAINT	HM1	PAINT	STORAGE	2/A101	3/A101	4/A101	TEMPERED GLAZING TRANSOM



DOOR
TYPE HL

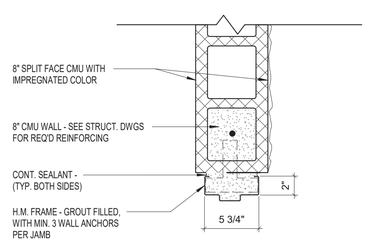


FRAME
TYPE HM1



2 H.M. HEAD

A101 1 1/2" = 1'-0"



3 H.M. JAMB

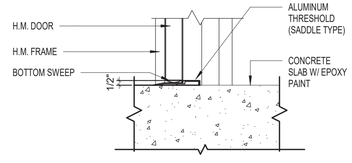
A101 1 1/2" = 1'-0"

HARDWARE SET: PRIVACY FUNCTION

3	HINGES	FBB 186	626	STANLEY
1	LOCKSET	AL40 - JUNIPER	626	SCHLAGE
1	CLOSER	#18301BF	ALU	NORTON
1	THRESHOLD	#898V 5"x36"	ALU	NATIONAL GUARD
3	SILENCERS	#308	ALU	ROCKWOOD

HARDWARE SET: STORAGE FUNCTION

3	HINGES	FBB 186	626	STANLEY
1	LOCKSET	AL80 - JUNIPER	626	SCHLAGE
1	CLOSER	#18301BF	ALU	NORTON
1	THRESHOLD	#898V 5"x36"	ALU	NATIONAL GUARD
3	SILENCERS	#308	ALU	ROCKWOOD



4 ALUM. THRESHOLD

A101 1 1/2" = 1'-0"

PARTITION SCHEDULE

P - 1	SPLIT FACE EXT. SIDE	7 5/8" EXTERIOR SIDE (1 2 3)	1 8" CONCRETE MASONRY UNIT (SEE REMARKS) 2 GROUTED & REINFORCED CELLS, CORNERS & OPENINGS. SEE STRUCTURAL DRAWINGS 3 FILL ALL NON-REINFORCING CELLS WITH FOAM INSULATION PER SPECIFICATIONS	CONTINUOUS HORIZONTAL MASONRY REINFORCING EVERY OTHER COURSE SEE STRUCT. DWGS. FOR VERT REINFORCING REQUIREMENTS COLOR IMPREGNATED: HAZELNUT
P - 2	SMOOTH FACE EA. SIDE	7 5/8" EXTERIOR SIDE (1 2 3)	1 8" CONCRETE MASONRY UNIT (SEE REMARKS) 2 GROUTED & REINFORCED CELLS, CORNERS & OPENINGS. SEE STRUCTURAL DRAWINGS 3 FILL ALL NON-REINFORCING CELLS WITH FOAM INSULATION PER SPECIFICATIONS	CONTINUOUS HORIZONTAL MASONRY REINFORCING EVERY OTHER COURSE SEE STRUCT. DWGS. FOR VERT REINFORCING REQUIREMENTS COLOR IMPREGNATED: HAZELNUT

FLOOR PLAN LEGEND

- NEW CMU WALL PARTITION - SMOOTH FACE EA. SIDE
- NEW CMU WALL PARTITION - SPLIT FACE EXTERIOR SIDE
- Room name — ROOM NAME AND NUMBER
- 101 — DOOR NUMBER
- 90 MIN — FIRE RATING - MAY DIFFER - SEE PLANS
- P-1 — WALL PARTITION TYPE
- SPOT ELEVATION
- DS — DOWNSPOUT - CONNECT TO STORMWATER COLLECTION - COORDINATE W/ CIVIL DWGS.

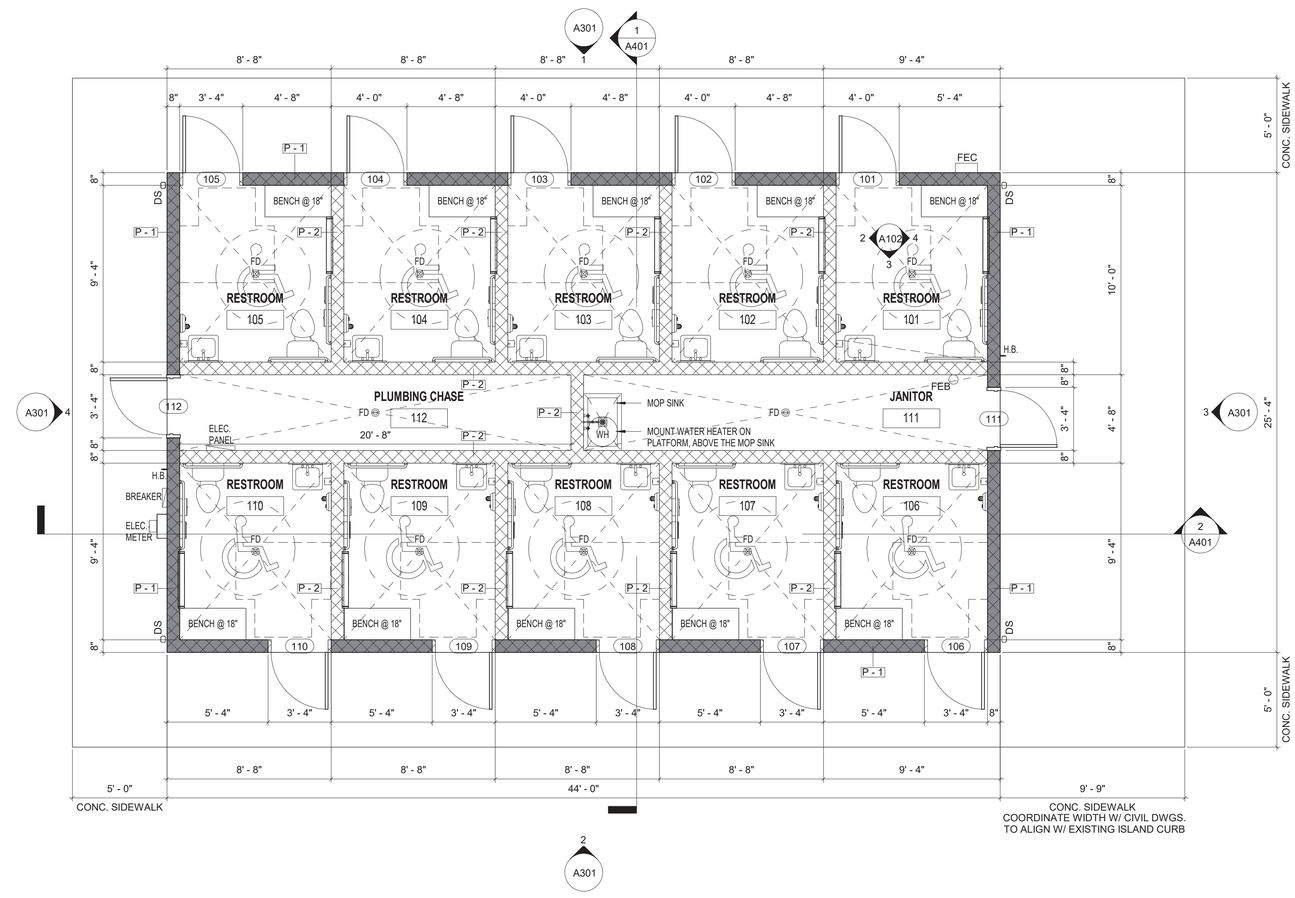
COATING SYSTEMS SCHEDULE

FINISH SAMPLES SHALL BE PROVIDED TO THE ARCHITECT FOR APPROVAL

MATERIAL	SURFACES	FINISH	TYPE	FINISH COAT	PRIMER	SURF. PREP/CLN.	COLORS
CEILINGS	AQUA-TUFF BOARD	SEMI-GLOSS	LATEX	EXT. - 2 COATS SUPER HIDE LATEX ENAMEL (283) INT. - 2 COATS SUPER HIDE LATEX ENAMEL (283)	EXT - SUPER HIDE LATEX PRIMER (284) INT - SUPER HIDE LATEX PRIMER (284)	REMOVE ALL DUST & DIRT FOR SMOOTH SURF.	SUPER WHITE #OC-152 BENJAMIN MOORE
EXTERIOR CMU	CMU-SPLITFACE/SMOOTH FACE FINISH SOILD COLOR	EXT. WALLS SEALER	WATER-BASED SILICONE	KLEAN BLOCK GUARD WEATHER SEAL	KLEAN BLOCK GUARD WEATHER SEAL	REMOVE ALL DUST & DIRT FOR SMOOTH SURF.	PROSOCO CLEAR
INTERIOR CMU	CMU-SMOOTH FACE FINISH SOILD COLOR	INT. & CHASE WALLS SEALER	WATER-BASED SILICONE	KLEAN BLOCK GUARD WEATHER SEAL	KLEAN BLOCK GUARD WEATHER SEAL	REMOVE ALL DUST & DIRT FOR SMOOTH SURF.	PROSOCO CLEAR
DOORS & FRAMES	GALV. HOLLOW METAL	MEDIUM GLOSS	LATEX	2 COATS SUPER SPEC LATEX HOUSE AND TRIM PAINT (K170)	SUPER SPEC LATEX EXTERIOR PRIMER (K169)	REMOVE ALL DUST & DIRT FOR SMOOTH SURF.	WINDS BREATH #981 BENJAMIN MOORE
EXT. FASCIA, SOFFIT & TRIM	CEMENTITIOUS TRIM & SOFFIT	MEDIUM GLOSS	LATEX	2 COATS SUPER SPEC LATEX HOUSE AND TRIM PAINT (170-1B)	SUPER SPEC LATEX EXTERIOR PRIMER (169)	REMOVE ALL DUST & DIRT FOR SMOOTH SURF.	WINDS BREATH #981 BENJAMIN MOORE
INTERIOR FLOORS	CONCRETE	MEDIUM GLOSS	EPOXY W/ INTEGRATED COVE BASE	P4000	P4000	REMOVE ALL DUST & DIRT FOR SMOOTH SURF.	GOSSAMER VEIL #SW9165 BENJAMIN MOORE
CHASE FLOOR	CONCRETE	GLOSS	SEALER	Zoro #: G1174677 Mfr #: 239416	Zoro #: G1174677 Mfr #: 239416	REMOVE ALL DUST & DIRT FOR SMOOTH SURF.	RUST-OLEUM - CLEAR

NOTES:

1. BENJAMIN MOORE PAINTS, MOORCRAFT OR ARCHITECT APPROVED EQUIVALENT
2. COLORS TO BE VERIFIED BY ARCHITECT & PARK MANAGER
3. APPLY WHEN AIR & SURFACE TEMPERATURES ARE 50 DEGREES FOR HIGHER
4. APPLY AS RECEIVED IN THE CONTAINER WITH A GOOD QUALITY BRUSH OR SHORT NAP ROLLER
5. APPLY WHEN AIR & SURFACE TEMPERATURES ARE ABOVE 40 DEGREES F & BELOW 85 DEGREES F
6. ADEQUATE VENTILATION IS REQUIRED TO AVOID BUILD-UP OF FUMES. TURN OFF ALL ELECTRIC MOTORS



1 RESTROOM BUILDING - FLOOR PLAN

A101 1/4" = 1'-0"

SYMBOL	DATE	REVISION
1		
2		
3		
4		

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

DESIGNER: DSHULER
DRAWN BY: JHIGHTOWER
REVIEWED BY: DSHULER
CONSULTANT: BARNETT BRONZAK BARLOWE & SHULER ARCHITECTS
BFBS ARCHITECTS
2074 CENTRE POINTE BLVD
SUITE 200
TALLAHASSEE, FLORIDA 32308
p.: 850.224-6301

ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 61963C

PROFESSIONAL REGISTRATION
RAY DOUGLAS SHULER
FL AR 96089

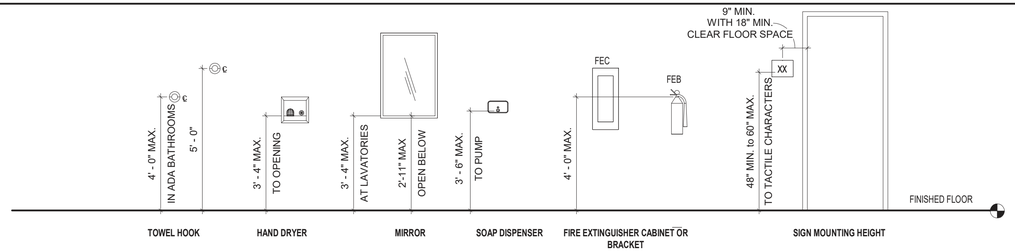
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: RESTROOM BUILDING - FLOOR PLAN

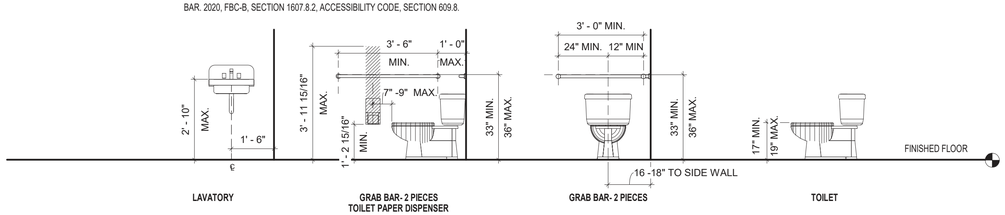
PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

SHEET NO. A101

100% CONTRACT DOCUMENTS



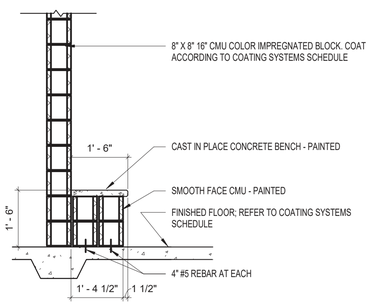
GRAB BARS SHALL BE DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT ON THE GRAB BAR. 2020, FBC-B, SECTION 1607.8.2, ACCESSIBILITY CODE, SECTION 609.8.



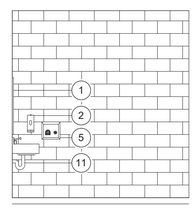
TOILET ACCESSORY SCHEDULE

TOILET AND BATH ACCESSORIES ARE FROM "A AND J WASHROOM ACCESSORIES" (845-562-3332) TO INDICATE TYPE, MATERIAL, AND QUALITY OF ACCESSORY, UNLESS OTHERWISE NOTED. OTHER MANUFACTURERS ARE ACCEPTABLE IF EQUAL AND APPROVED.

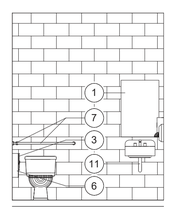
MARK	ITEM	DESCRIPTION	MOUNTING HT.	MFR./MODEL	REMARKS
1	MIRROR	1/4" PLATE GLASS - TYPE 304 #18 GAUGE STAINLESS STEEL FRAME, BRIGHT FINISH	40" TO BOTTOM	A&J U700 24 X 36, OR EQ	INSTALL PER MFR. REC. W/ CONCEALED WALL HANGER, 15 YR. SILVER SPOILAGE GUARANTEE
2	SOAP DISPENSER	WALL MOUNTED LIQUID SOAP DISPENSER - STAINLESS STEEL GRAVITY FEED VALVE (1000 ML CAPACITY)	SPOUT 40" A.F.F.	A&J U126, OR EQ	INSTALL PER MFR. RECOMMENDATIONS
3	TOILET PAPER DISPENSER	SURFACE-MOUNTED DOUBLE ROLL DISPENSER #18 GA. TYPE 304 18-8 ALLOY STAINLESS STEEL - SATIN FINISH	19" MIN. AFF (22" PREF.) TO C.L. OF BOTT. ROLL	A&J U804, OR EQ	INSTALL PER MFR. RECOMMENDATIONS (INSTALL 36" MAX. FROM BACK WALL)
4	ROBE / TOWEL HOOK	SURFACE-MOUNTED STAINLESS STEEL HOOK (TYPE 304 #14 GAUGE S.S.) W/ PIVOTING BALL JOINT COLLAPSIBLE HOOKS	4'-0" A.F.F.	A&J US19, OR EQ	INSTALL PER MFR. RECOMMENDATIONS
5	ELECTRIC HAND DRYER	STAINLESS STEEL HANDS FREE DRYER W/ S.S. WALL GUARD	SEE A201	NOVA 1, OR EQ	INSTALL PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE S.S. WALL GUARD (BASIS OF DESIGN: EXCEL XLERATOR 89S)
6	SANITARY NAPKIN DISPOSAL	SURFACE-MOUNTED, TYPE 304 STAINLESS STEEL - SATIN FINISH (1.6 GALLON CAPACITY)	TOP @ +30 A.F.F.	A&J U591, OR EQ	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
7	GRAB BAR - 36"	CONCEALED TYPE GRAB BAR, 1-1/2" O.D. DIA., TYPE 304 S.S. SATIN FINISH, 18 GA. W/ 3" DIA. FLANGE, 1/2" DEEP, 11 GA. W/ TAMPER-RES. SET SCREWS	34" A.F.F. TO CENTER LINE	A&J UG30 X 36", OR EQ	INSTALL PER MANUFACTURER'S RECOMMENDATIONS MOUNT ON BACK WALL
	GRAB BAR - 42"	CONCEALED TYPE GRAB BAR, 1-1/2" O.D. DIA., TYPE 304 S.S. SATIN FINISH, 18 GA. W/ 3" DIA. FLANGE, 1/2" DEEP, 11 GA. W/ TAMPER-RES. SET SCREWS	34" A.F.F. TO CENTER LINE	A&J UG30 X 42", OR EQ	INSTALL PER MANUFACTURER'S RECOMMENDATIONS MOUNT ON SIDE WALL
8	MOP SINK W/ MOP HOOKS	FLOOR MOUNTED - MUSTEE SINK WITH KOHLER FAUCET	FLOOR MOUNTED	63M 24X24 & K-8907	INCLUDE STAINLESS SPLASH GUARD & MOP HOLDER
9	DRINKING FOUNTAIN	TWO STATION WALL-MOUNT WATER FOUNTAIN	40" A.F.F. ADA: 36" A.F.F.	SEE PLUMBING SHEET	INSTALL PER MFR. RECOMMENDATIONS
10	BABY CHANGING STATION	HORIZONTAL, POLYETHYLENE, HORIZONTAL BABY CHANGING STATION	32" A.F.F.	A&J U944, OR EQ	INSTALL PER MFR. RECOMMENDATIONS
11	UNDER SINK PROTECTION		AT UNDERSINK PLUMBING	TRUEBRO - LAV GUARD E-Z, WHITE	INSTALL PER MFR. RECOMMENDATIONS



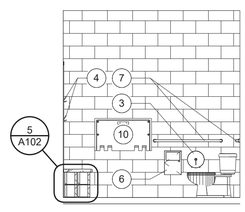
5 BENCH SECTION
A102 1/2" = 1'-0"



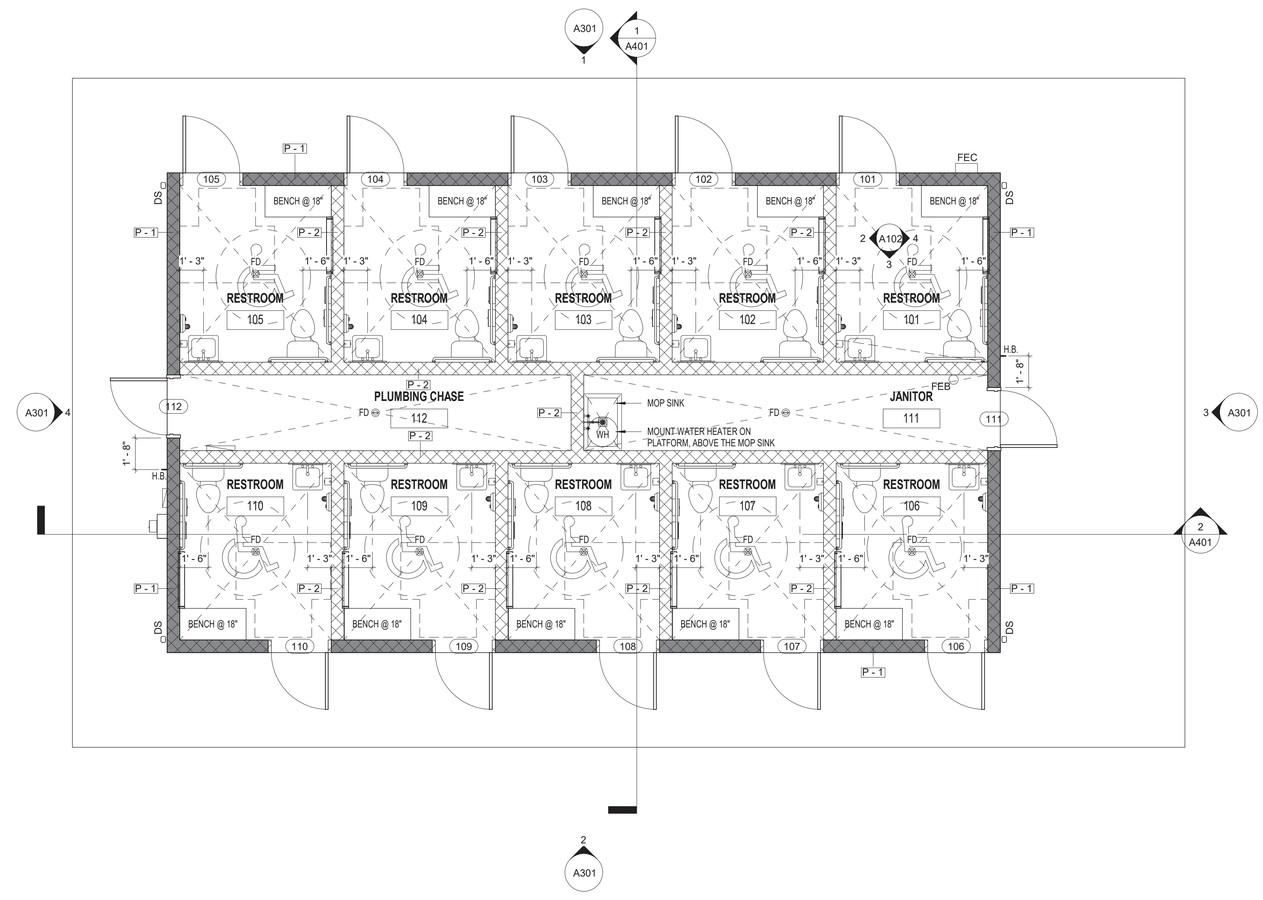
2 RESTROOM ELEV. - TYP.
A102 1/4" = 1'-0"



3 RESTROOM ELEV. - TYP.
A102 1/4" = 1'-0"



4 RESTROOM ELEV. - TYP.
A102 1/4" = 1'-0"



1 RESTROOM BUILDING - PLUMBING DIMENSIONS PLAN
A102 1/4" = 1'-0"

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL
		3			4

ISSUE DATE:	28 MARCH 2023
COMP. FILE No.:	18980
STATE PROJECT No.:	61963C

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

DESIGNER: DSHULER
DRAWN BY: JHIGHTOWER
REVIEWED BY: DSHULER
CONSULTANT: BFBS ARCHITECTS
2074 CENTRE POINTE BLVD
SUITE 200
TALLAHASSEE, FLORIDA 32308
p.: 850.224-6301

PROFESSIONAL REGISTRATION
RAY DOUGLAS SHULER
FL AR 96089

STATE OF FLORIDA
RAY DOUGLAS SHULER
LICENSED
REGISTERED ARCHITECT

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
RESTROOM BUILDING - FLOOR PLAN - PLUMBING

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
A102

100% CONTRACT DOCUMENTS

RCP LEGEND

- CEILING HEIGHT
- CEILING MATERIAL
- ROOM NUMBER

CEILING FINISHES

- AQUATOUGH CEILING ON 7/8" HAT HAT CHANNEL @ 24" O.C. - SEE RCP FOR CEILING HEIGHTS
- CEMENTITIOUS BOARD (CMT.BD.) SOFFIT W/ 2" BATTENS ON 7/8" HAT HAT CHANNEL @ 24" O.C - SEE RCP FOR CEILING HEIGHTS

- NEW CMU WALL PARTITION - SMOOTH FACE EA. SIDE
- NEW CMU WALL PARTITION - SPLIT FACE EXTERIOR SIDE

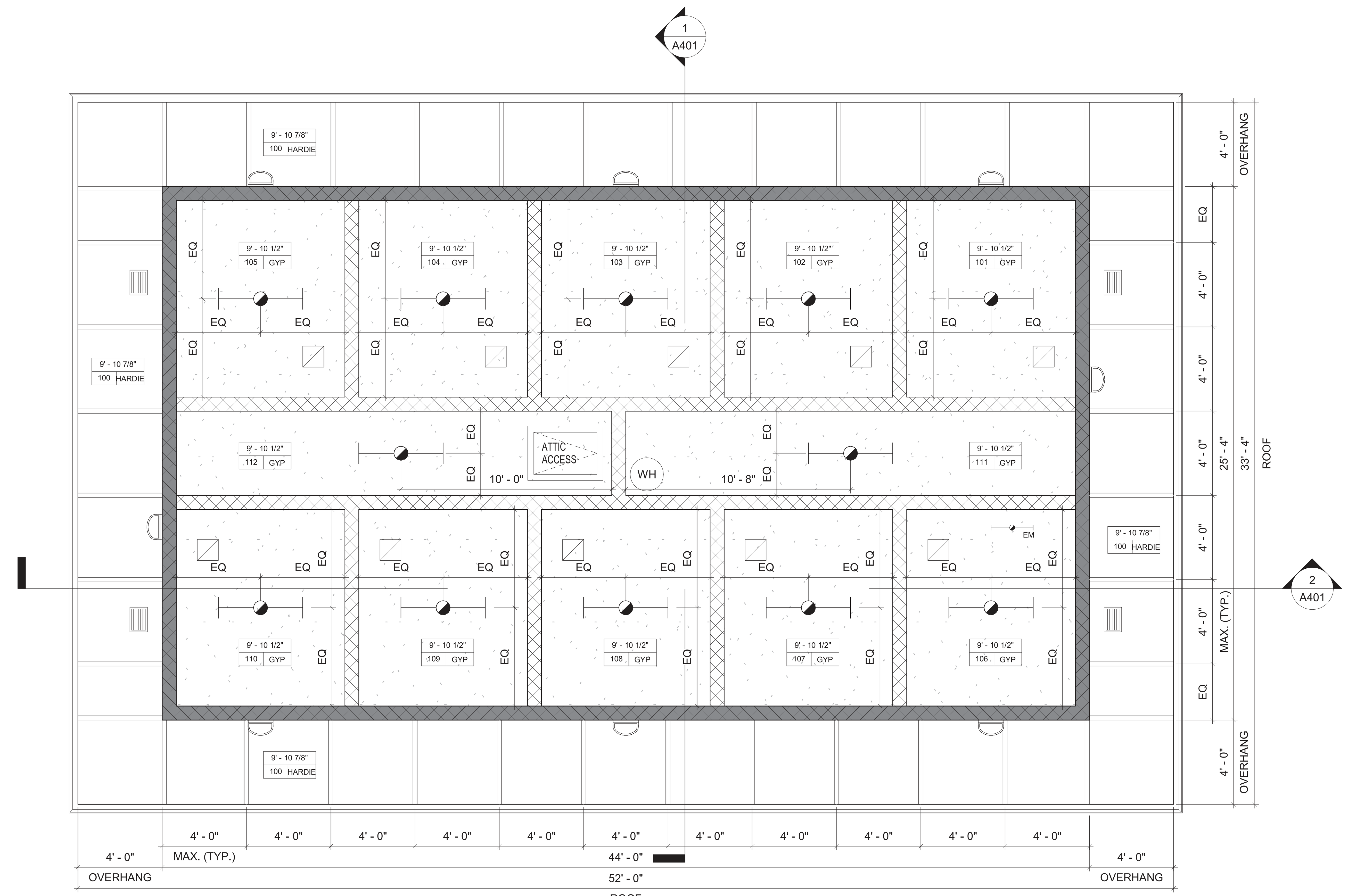
CEILING ACCESSORIES

- 4'-0" LED LINEAR FIXTURE W/ BATTERY BACK UP
- WALL MOUNTED LIGHT

ROOM FINISH SCHEDULE

FINISH SAMPLES SHALL BE PROVIDED TO THE ARCHITECT FOR APPROVAL

ROOM NO	ROOM NAME	FLOOR	WALLS				CEILING		NOTES
			N	S	E	W	MATERIAL	HEIGHT	
100	COVERED AREA	BROOM FINISHED CONCRETE	-	-	-	-	HARDIE PANEL	SEE A201	SLOPE FLOOR AWAY FROM BUILDING
101	RESTROOM	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
102	RESTROOM	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
103	RESTROOM	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
104	RESTROOM	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
105	RESTROOM	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
106	RESTROOM	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
107	RESTROOM	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
108	RESTROOM	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
109	RESTROOM	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
110	RESTROOM	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
111	JANITOR	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN
112	PLUMBING CHASE	EPOXY PAINT	PAINT	PAINT	PAINT	PAINT	PAINTED AQUA-TOUGH BOARD	SEE A201	SLOPE FLOOR TO DRAIN



1 / A201 **RESTROOM BUILDING - REFLECTED CEILING PLAN**
1/4" = 1'-0"

DESIGNER: DSHULER
DRAWN BY: JHIGHTOWER
REVIEWED BY: DSHULER
ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 61363C

CONSULTANT:
BFBS ARCHITECTS
2074 CENTRE POINTE BLVD
SUITE 200
TALLAHASSEE, FLORIDA 32308
p.: 850.224-6301

PROFESSIONAL REGISTRATION
RAY DOUGLAS SHULER
FL AR 96089

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
1			3		
2			4		

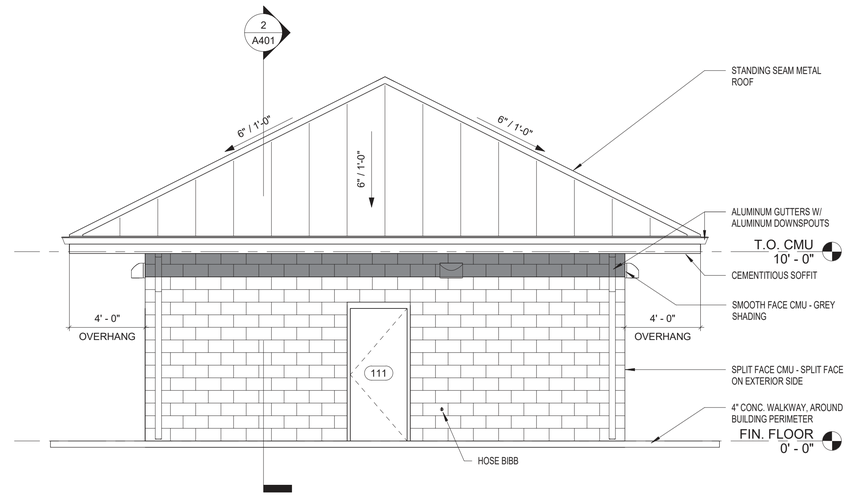
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
RESTROOM BUILDING - REFLECTED CEILING PLAN

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

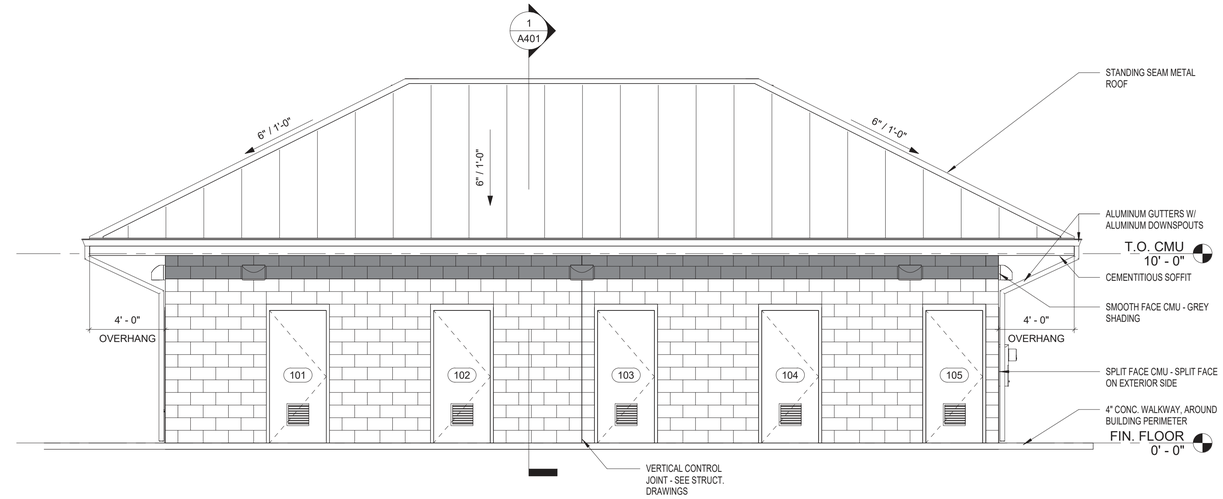
SHEET NO.
A201

100% CONTRACT DOCUMENTS



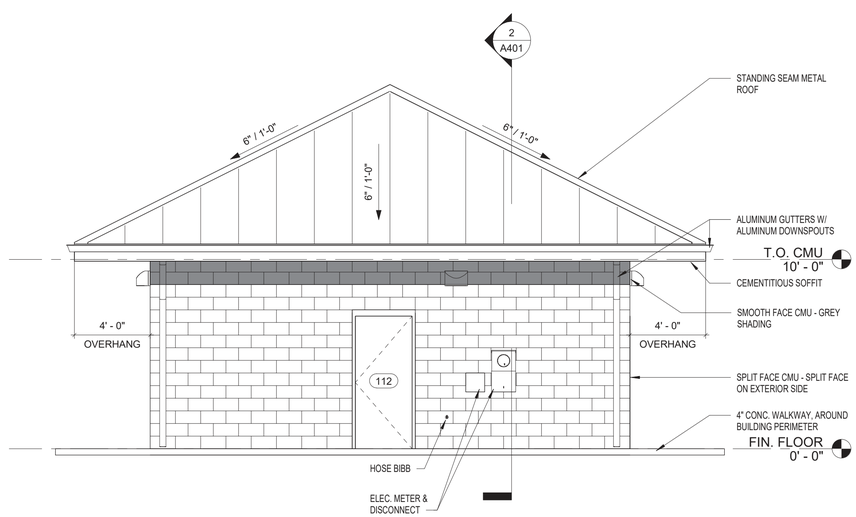
3 NORTH ELEVATION

A301 1/4" = 1'-0"



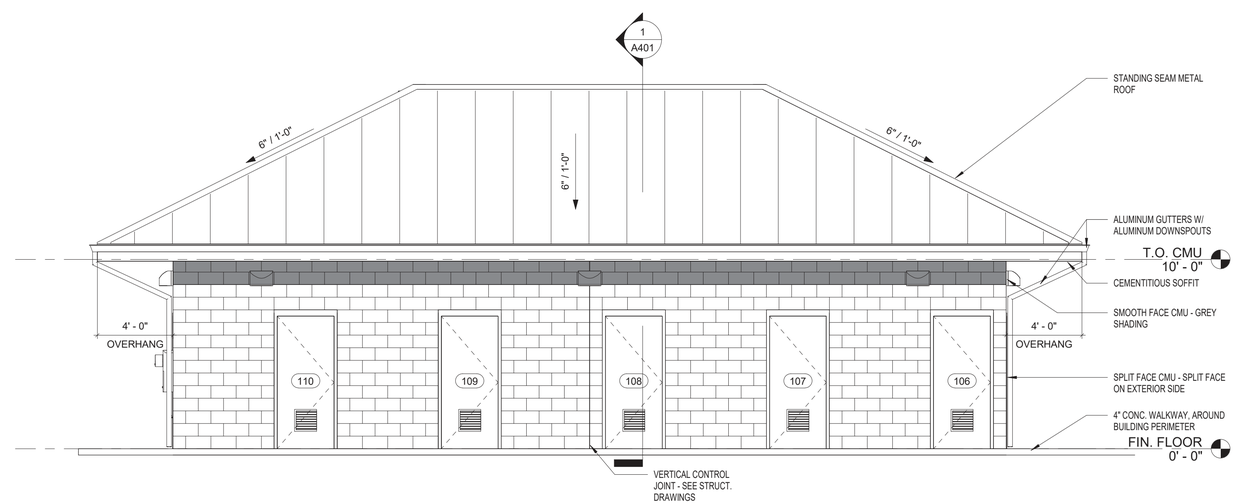
1 WEST ELEVATION

A301 1/4" = 1'-0"



4 SOUTH ELEVATION

A301 1/4" = 1'-0"



2 EAST ELEVATION

A301 1/4" = 1'-0"

SYMBOL	REVISION	DATE
1		
2		
3		
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Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

DESIGNER: DSHULER
DRAWN BY: JHIGHTOWER
REVIEWED BY: DSHULER
CONSULTANT: BARNETT BROCZAK BARLOWE & SHULER ARCHITECTS
BFBS ARCHITECTS
2074 CENTRE POINTE BLVD
SUITE 200
TALLAHASSEE, FLORIDA 32308
p.: 850.224-6301

ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 6136SC

PROFESSIONAL REGISTRATION
RAY DOUGLAS SHULER
FL AR 96089

STATE OF FLORIDA
RAY DOUGLAS SHULER
LICENSED
REGISTERED ARCHITECT

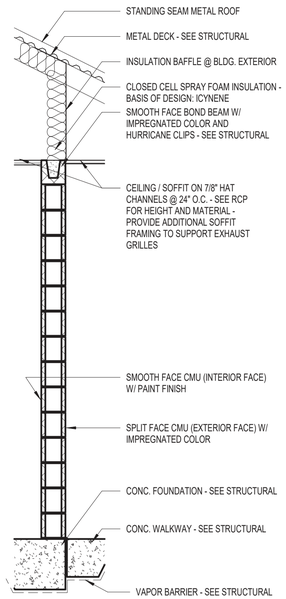
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
RESTROOM BUILDING - BUILDING ELEVATIONS

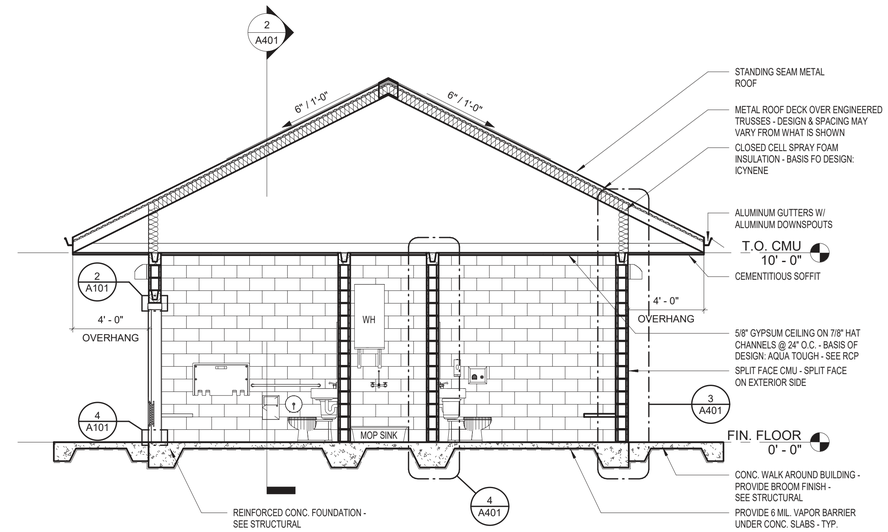
PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
A301

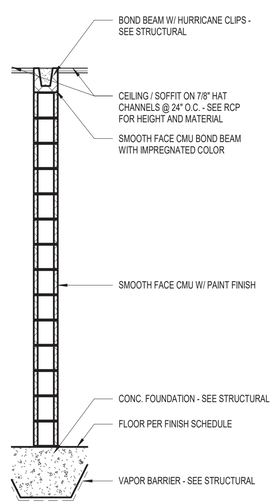
100% CONTRACT DOCUMENTS



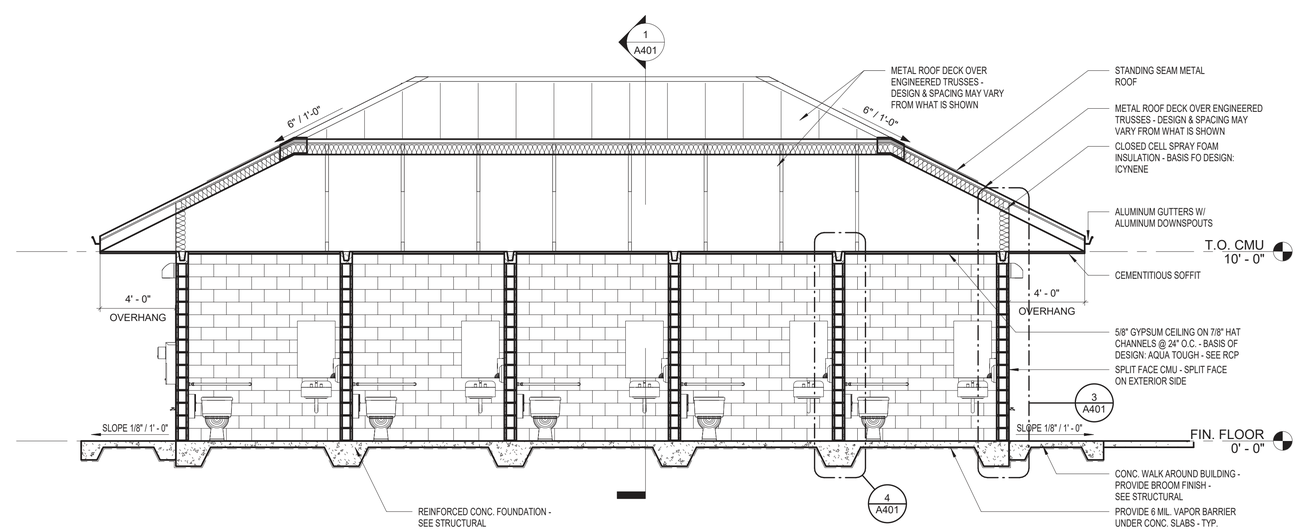
3 EXTERIOR CMU WALL SECTION
A401 1/2" = 1'-0"



1 BUILDING SECTION
A401 1/4" = 1'-0"



4 INTERIOR CMU WALL SECTION
A401 1/2" = 1'-0"



2 BUILDING SECTION
A401 1/4" = 1'-0"

SYMBOL	DATE	REVISION
3		
4		

SYMBOL	DATE	REVISION
1		
2		

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DSHULER — ISSUE DATE: 28 MARCH 2023
JHIGHTOWER — COMP. FILE No.: 18980
DSHULER — STATE PROJECT No.: 61363C

CONSULTANT:
BFBS ARCHITECTS
2074 CENTRE POINTE BLVD
SUITE 200
TALLAHASSEE, FLORIDA 32308
p.: 850.224-6301

DESIGNER:
DRAWN BY:
REVIEWED BY:

PROFESSIONAL REGISTRATION
RAY DOUGLAS SHULER
FL AR 96089

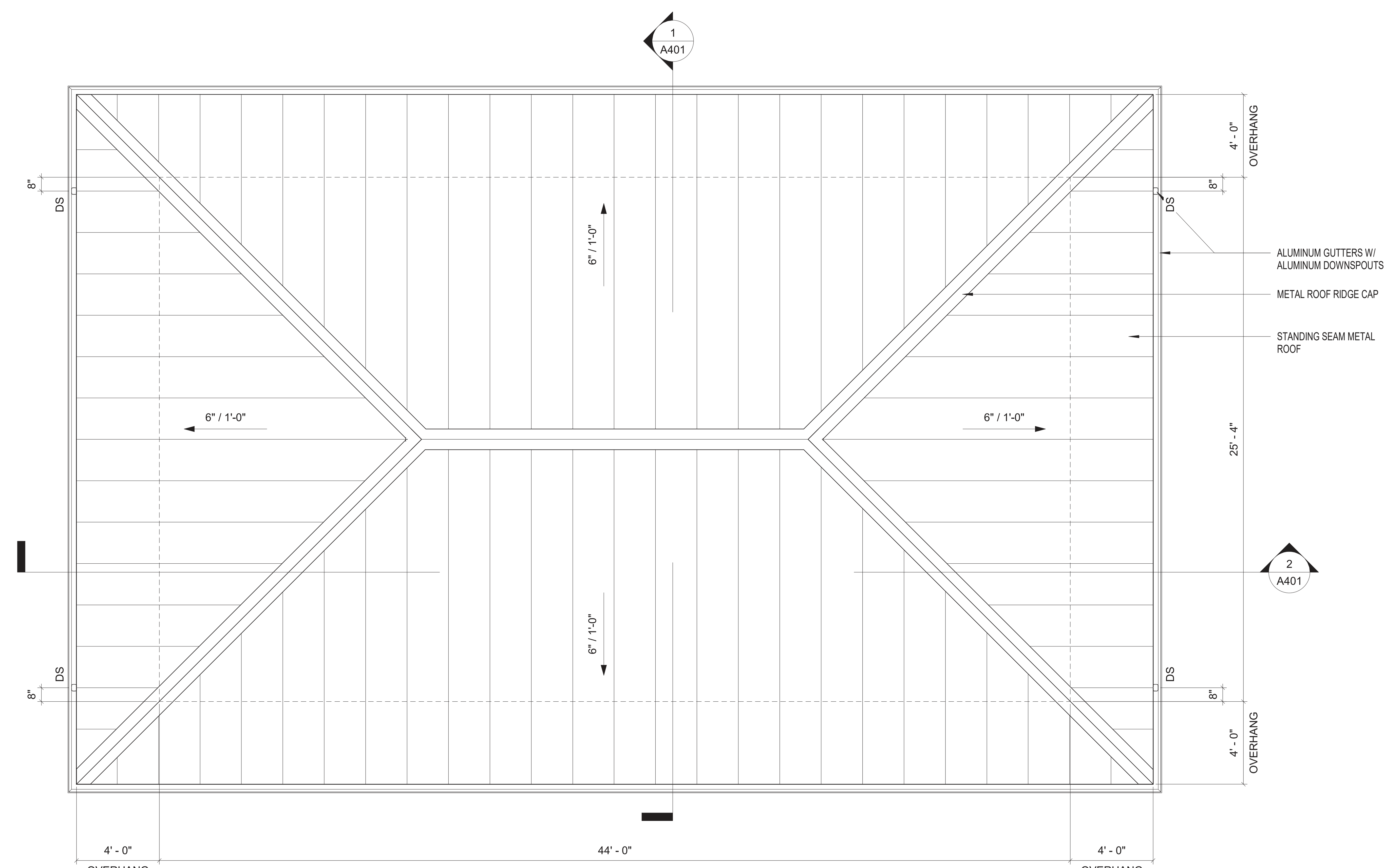
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
RESTROOM BUILDING - BUILDING & WALL SECTIONS

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
A401

100% CONTRACT DOCUMENTS



1 | A501

RESTROOM BUILDING - ROOF PLAN

1/4" = 1'-0"

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
1			3		
2			4		

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Office of Operations
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3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 424-2300

ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 61363C

DESIGNER: DSHULER
DRAWN BY: JHIGHTOWER
REVIEWED BY: DSHULER
CONSULTANT:

BFBS ARCHITECTS
2074 CENTRE POINTE BLVD
SUITE 200
TALLAHASSEE, FLORIDA 32308
p.: 850.224-6301

PROFESSIONAL REGISTRATION
RAY DOUGLAS SHULER
FL AR 96089

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
RESTROOM BUILDING - ROOF PLAN

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

100% CONTRACT DOCUMENTS

SHEET NO.
A501

HVAC SPECIFICATIONS

1	SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK: ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA GUIDELINES AND SHALL BE CONSTRUCTED FROM G90 GALVANIZED SHEET STEEL. ALL SEAMS SHALL BE SEALED TO A MINIMUM OF 2" PRESSURE CLASS WITH WATER BASED MASTIC.
2	FLEXIBLE DUCT CONNECTORS: FLEXIBLE CONNECTORS SHALL BE LISTED FOR USE. EXTERIOR DUCT CONNECTORS SHALL BE CHEMICAL, UV, AND WEATHER RESISTANT. PROVIDE HEAVY DUTY CONNECTIONS WHERE USED FOR CONNECTIONS TO EXHAUST FANS.
3	AIR CONDITIONING SYSTEMS SHALL BE TESTED AND BALANCED UPON INSTALLATION COMPLETION BY A NEBB OR AABC CERTIFIED TEST AND BALANCE AGENT. AGENT SHALL PROVIDE A SIGNED AND SEALED TEST AND BALANCE REPORT TO THE ENGINEER OF RECORD UPON COMPLETION OF TAB ACTIVITIES.
4	DIFFUSERS AND GRILLES SHALL BE FROM A SINGLE MANUFACTURER. DIFFUSERS AND GRILLES SHALL BE ALL ALUMINUM CONSTRUCTION AND BE WHITE IN COLOR, UNLESS NOTED OTHERWISE.

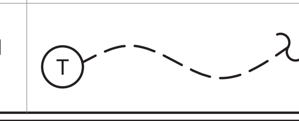
CODE REFERENCES

FBC, BUILDING	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, MECHANICAL	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, TEST PROTOCOL	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, EXISTING BUILDING	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, ENERGY	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FFPC	FLORIDA FIRE PREVENTION CODE, 2020 SEVENTH EDITION
NFPA 51B	STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK, 2014 EDITION
NFPA 70	NATIONAL ELECTRIC CODE, 2017 EDITION
NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS, 2018 EDITION
NFPA 101	LIFE SAFETY CODE, 2018 EDITION
NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY, 2016 EDITION

DESIGN CRITERIA

BUILDING TYPE	GROUP U - UTILITY
CLIMATE ZONE	2A, COLUMBIA COUNTY, FLORIDA
OUTDOOR DESIGN CONDITIONS (SUMMER)	95°F DB, 78°F WB
OUTDOOR DESIGN CONDITIONS (WINTER)	25°F DB
INTERIOR DESIGN TEMPERATURES	72°F HEATING, 75°F COOLING
ENERGY COMPLIANCE METHOD	PERSCRIPTIVE METHOD (TRADE OFF METHOD)
COMMISSIONING	COMMISSIONING IS NOT REQUIRED PER EXCEPTION #1 OF C408.2 OF FLORIDA BUILDING CODE - ENERGY, 2020 (SEVENTH EDITION).
SCOPE OF WORK	THE PROJECT CONSISTS OF A BATHROOM BUILDING. VENTILATION WILL BE PROVIDED BY CEILING MOUNTED EXHAUST FANS AND A ROOF MOUNTED EXHAUST FAN WITH OUTSIDE AIR PROVIDED THROUGH LOUVERS.

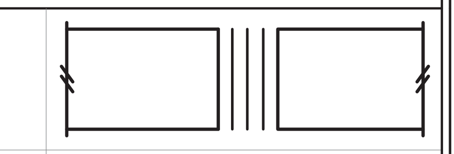
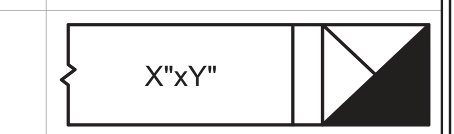
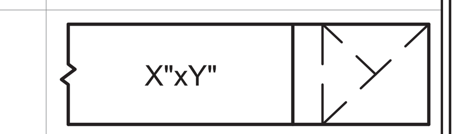
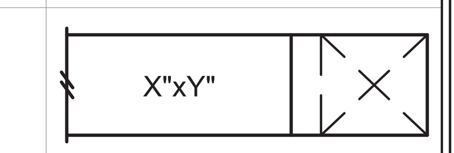
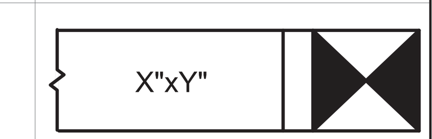
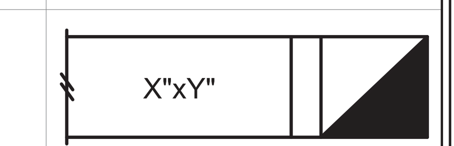
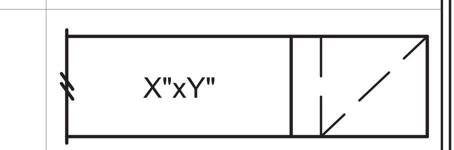
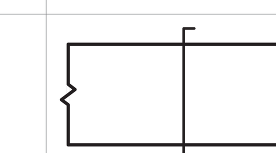
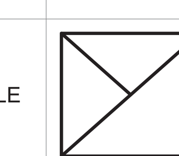
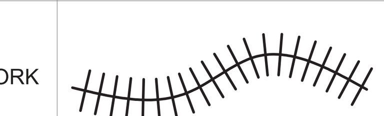
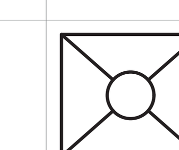
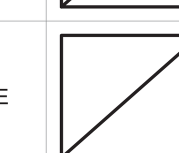
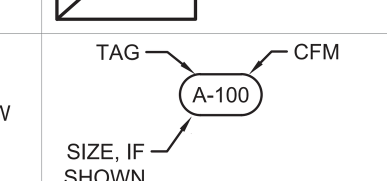
CONTROLS SYMBOLS

FAN OR PUMP	
PREMIUM EFFICIENT MOTOR, UNO	
THERMOSTAT/ TEMPERATURE SENSOR WITH CONTROL WIRING	

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFR	ABOVE FINISHED ROOF
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
BHP	BRAKE HORSE POWER
CD	CONDENSATE
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
FLA	FULL LOAD AMPS
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GPM	GALLONS PER MINUTE
kW	KILLOWATT
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSANDS OF BTU'S PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVER CURRENT PROTECTION
NTS	NOT TO SCALE
OA	OUTDOOR AIR
PSI	POUNDS PER SQUARE INCH
PISG	PSI GAUGE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
SA	SUPPLY AIR
TSP	TOTAL STATIC PRESSURE
UNO	UNLESS NOTED OTHERWISE
WP	WEATHER PROOF
SIM	SIMILAR

DUCT SYMBOLS

FLEXIBLE CANVAS CONNECTION	
EXHAUST AIR DUCTWORK UP	
EXHAUST AIR DUCTWORK DOWN	
SUPPLY AIR DUCTWORK DOWN	
SUPPLY AIR DUCTWORK UP	
RETURN AIR DUCTWORK UP	
RETURN AIR DUCTWORK DOWN	
MANUAL BALANCE DAMPER	
EXHAUST AIR GRILLE	
FLEXIBLE DUCTWORK	
SUPPLY AIR DIFFUSER	
RETURN AIR GRILLE	
DIFFUSER TAG, NEW	

GENERAL HVAC NOTES

1	TOMAHAWK ENGINEERING AND CONSULTING, INC. SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.
2	THE CONTRACTOR ASSUMES RESPONSIBILITY FOR USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND/OR PROJECT CONDITIONS.
3	THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER IN RESPONSIBLE CHARGE FOR THE GIVEN DISCIPLINE.
4	CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.
5	ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.
6	WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF $750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.
7	DRAWINGS ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT (WHERE APPLICABLE) TO ENSURE EQUIPMENT FURNISHED WILL WORK FOR SPACES PROVIDED. FINAL DIMENSIONS OF DUCTWORK AND PIPING SHALL BE COORDINATED IN FIELD. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS IN DUCTWORK AND PIPING TO FIT IN SPACES PROVIDED AND THESE ADDITIONAL OFFSETS AND TRANSITIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
8	DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA GUIDELINES AT TIME OF PROJECT PERMIT.
9	THERMOSTATS, HUMIDISTATS, TEMPERATURE SENSORS, HUMIDITY SENSORS, AND/OR OTHER DEVICES REQUIRING OCCUPANT ADJUSTMENT BUT LOCATED ON WALL SHALL BE MOUNTED 48" AFF, UNLESS NOTED OTHERWISE.
10	WHERE APPLICABLE AND AVAILABLE, ACTUAL EQUIPMENT DRAWINGS ARE USED FOR SYMBOLS ON PLAN VIEWS AND IN DETAILS. HOWEVER, SIMPLE BLOCK DIAGRAMS WITH ESTIMATED DIMENSIONS ARE ALSO USED FOR PLAN VIEWS. WHERE EQUIPMENT OR DEVICES ARE NOT LABELED, INDUSTRY STANDARD TERMINOLOGY AND SYMBOLOGY SHALL APPLY.
11	THESE GENERAL NOTES WORK IN CONJUNCTION WITH NOTES SHOWN ON PLAN VIEWS. THESE NOTES DO NOT SUPERCEDE NOTES SHOWN ON PLAN VIEW DRAWINGS. CONVERSELY, NOTES SHOWN ON PLAN VIEW DRAWINGS DO NOT SUPERCEDE THESE GENERAL NOTES.
12	REFER TO EQUIPMENT SCHEDULES FOR AIR AND WATER PRESSURE DROPS ASSOCIATED WITH COOLING AND HEATING COILS.
13	PROVIDE ACCESS PANELS IN DUCTWORK AND/OR BUILDING CONSTRUCTION WHERE REQUIRED FOR EQUIPMENT ACCESS AND SERVICE. PANELS SHALL BE SIZED TO SUIT EQUIPMENT SERVICED. WHERE PANELS WILL BE LOCATED IN FIRE RATED WALLS AND/OR PARTITIONS, THE ACCESS PANEL SHALL MEET THE RATING OF THE WALL. REFER TO ARCHITECTURAL DRAWINGS FOR RATINGS OF WALLS AND PARTITIONS.
14	UNLESS NOTED OTHERWISE, DUCTWORK, PIPING, VALVES, DAMPERS, AND ALL ASSOCIATED ANCILLARY HVAC DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MECHANICAL SPECIFICATIONS. ALL EQUIPMENT INSTALLED AS PART OF THIS PROJECT SHALL BE NEW, UNLESS NOTED OTHERWISE, NO EXCEPTIONS.
15	PAINT DUCTWORK AND DAMPERS VISIBLE THRU REGISTERS FLAT BLACK PRIOR TO OWNER OCCUPANCY.
16	HVAC EQUIPMENT PROVIDED FROM THIRD PARTY MANUFACTURER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. WHERE CONFLICTS BETWEEN CONTRACT DOCUMENTS AND MANUFACTURER'S INSTRUCTION ARISE, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL PREVAIL.
17	THE CONTRACTOR SHALL MAKE HIS OR HERSELF AWARE OF THE OWNER'S SCHEDULE AND BE PREPARED TO WORK AT NIGHT OR ON WEEKENDS TO COMPLETE WORK SHOWN IN THESE DOCUMENTS. INTERRUPTIONS TO OWNER'S NORMAL WORK SCHEDULE SHALL NOT BE MADE WITHOUT WRITTEN INSTRUCTION TO DO SO FROM OWNER'S REPRESENTATIVE.
18	WHERE THERE ARE CONFLICTS BETWEEN LIGHT SWITCHES AND THERMOSTAT/HUMIDISTAT LOCATIONS, THE LIGHT SWITCHES SHALL PREVAIL. MOUNT THERMOSTAT/HUMIDISTATS ADJACENT TO LIGHT SWITCHES.
19	AS REQUIRED BY BUILDING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TRANSITIONS AND EQUIVALENT SQUARE DUCT SIZES NEEDED TO FIT THRU JOISTS AND/OR WALL 2x4 SPACING WHERE ROUND IS SHOWN ON PLANS. THE CONTRACTOR SHALL PROVIDE THESE TRANSITIONS AND SQUARE DUCTS AT NO ADDITIONAL COST TO THE OWNER. COORDINATE WITH THE GC IN FIELD FOR JOIST AND WALL 2x4 REQUIREMENTS.
20	WHERE REQUIRED BY BUILDING CONSTRUCTION AND HEIGHT TO EQUIPMENT SERVED, THE CONTRACTOR SHALL PROVIDE HOISTING MECHANISMS AS WELL AS SCAFFOLDING WHERE REQUIRED TO INSTALL EQUIPMENT SHOWN WITHIN THESE CONTRACT DOCUMENTS. EQUIPMENT USED FOR THE INSTALLATION OF EQUIPMENT SHALL MEET ALL OSHA REQUIREMENTS.
21	PROVIDE MANUAL BALANCE DAMPERS FOR SUPPLY, RETURN, AND EXHAUST TAKE-OFFS TO REGISTERS WHETHER INDICATED OR NOT. WHERE DAMPERS WILL BE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE OPPOSED BLADE MANUAL BALANCE DAMPERS FROM REGISTER MANUFACTURER.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY THE ENGINEER INDICATED HEREIN WITH THE DATE AS INDICATED IN THE TIME STAMP USING AN SHA CODE.
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DESIGNER : DMM
DRAWN BY: DMM
REVIEWED BY: WHT

Consultant : TOMAHAWK ENGINEERING & CONSULTING, INC.
1940 Buford Blvd. - Tallahassee, FL 32302
Phone: 850-402-3040, Fax: 850-402-9659
Certificate of Authorization #: 29709
Tomahawk Project #: 22033
RICHARD LINDBURG
PE#: 62829
MICHAEL BOYLE
PE#: 76983

MICHAEL BOYLE
LICENSE
No. 76983
STATE OF FLORIDA
EXPIRES 02-28-25
PROFESSIONAL ENGINEER

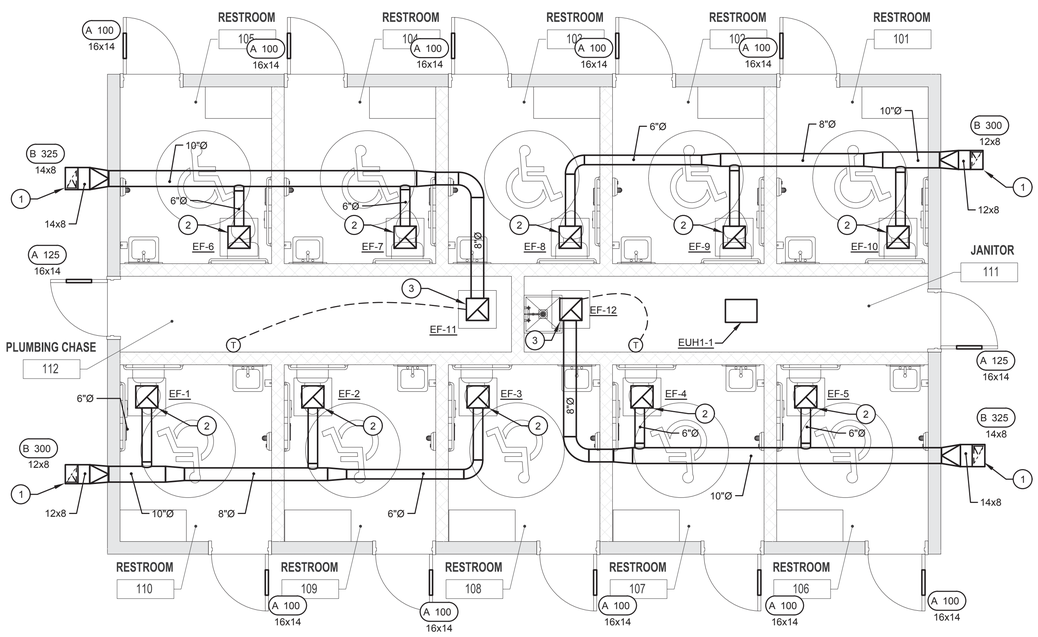
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
LEGEND, NOTES & SCHEDULES - HVAC

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
M001

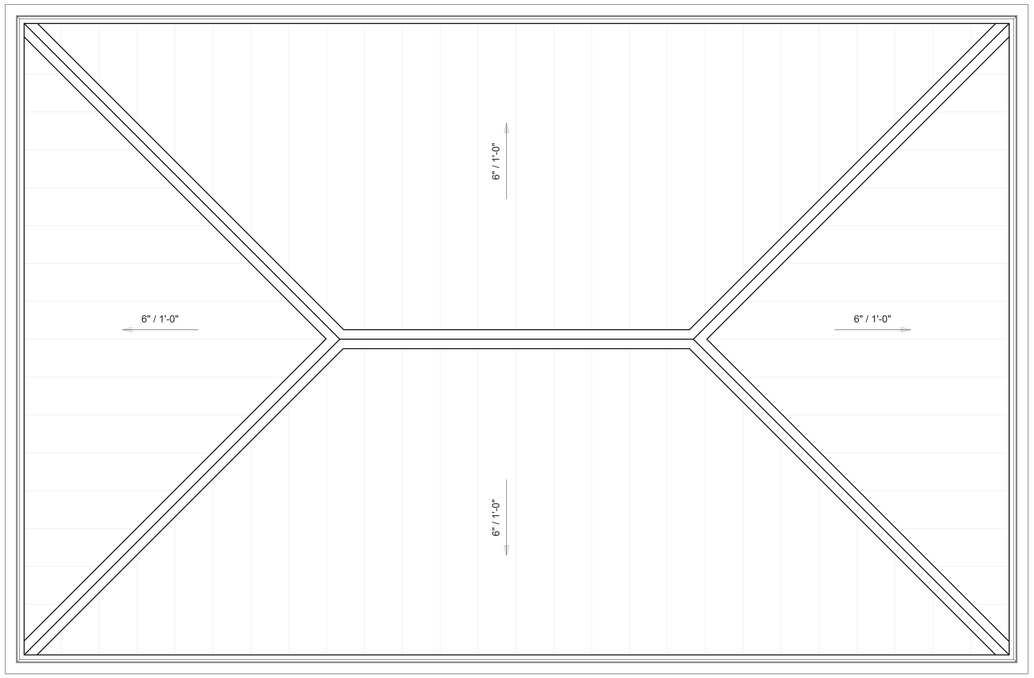
100% CONTRACT DOCUMENTS



1 FLOOR PLAN - MECHANICAL

M101 1/4" = 1'-0"

SHEET RENOVATION KEY NOTES:	
1	PROVIDE A BIRDSCREEN ON THE EXHAUST GRILLE.
2	TIE EXHAUST FAN INTO LIGHTING CIRCUIT SUCH THAT WHEN THE LIGHT IS ON, THE EXHAUST FAN SHALL BE ENERGIZED. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3	PROVIDE LINE VOLTAGE THERMOSTAT TO ENERGIZE/DE-ENERGIZE EXHAUST FAN. INITIAL SETPOINT FOR EXHAUST FAN TO BE 80°F.



2 ROOF PLAN - MECHANICAL

M101 1/4" = 1'-0"

SYMBOL	REVISION	DATE
1		
2		

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4		

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PROFESSIONAL ENGINEER

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Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
FLOOR PLANS - MECHANICAL

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
M101

100% CONTRACT DOCUMENTS

FAN SCHEDULE

EQUIPMENT NO.	MODEL NO.	FAN TYPE	CFM	EXT. STATIC	FAN RPM	DRIVE TYPE	SONES	MOTOR RPM	MOTOR HP (W)	VOLTAGE/ PHASE
EF1-1	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-2	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-3	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-4	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-5	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-6	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-7	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-8	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-9	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-10	GC-148	CEILING MOUNTED	100	0.35"	951	DIRECT	2.0	1100	(40 W)	115/1Ø
EF1-11	GC-166	CEILING MOUNTED	125	0.35"	1045	DIRECT	2.5	1100	(46 W)	115/1Ø
EF1-12	GC-166	CEILING MOUNTED	125	0.35"	1045	DIRECT	2.5	1100	(46 W)	115/1Ø

NOTES:

1. BASIS OF DESIGN: LOREN COOK, OR EQUAL.
2. PROVIDE EXHAUST FANS, EF1-1 THRU EF1-10 WITH THE FOLLOWING: DISCONNECT SWITCH (REFER TO ELEC.), HANGING SUPPORT KIT, BACK DRAFT DAMPER, WHITE PLASTIC GRILLE, SPEED CONTROLLER, VIBRATION ISOLATORS. TIE EXHAUST FANS INTO LIGHTING CIRCUIT, REFER TO ELEC. DRAWINGS.
3. PROVIDE EXHAUST FAN, EF1-11 & EF1-12 WITH THE FOLLOWING: DISCONNECT SWITCH (REFER TO ELEC.), HANGING SUPPORT KIT, BACK DRAFT DAMPER, WHITE PLASTIC GRILLE, SPEED CONTROLLER, VIBRATION ISOLATORS AND LINE VOLTAGE THERMOSTAT. INITIALLY SET THERMOSTAT TO 80°F.

DIFFUSER SCHEDULE

PLAN MARK	CFM	NECK SIZE	DESCRIPTION
A	GRILLES TO BE 16x14		ALL ALUMINUM HEAVY DUTY CONSTRUCTION SIGHT PROOF TRANSFER GRILLE. GRILLE TO BE EXTRUDED ALUMINUM, MANDREL TUBE CONSTRUCTION AND ANGLED LOUVERED BLADES. PROVIDE GRILLE WITH MOUNTING KIT FOR DOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DOOR SCHEDULE. GRILLE SHALL BE EQUAL TO PRICE MODEL ATGH.
B	REFER TO PLAN VIEWS FOR CFM AND SIZES		ALL ALUMINUM CONSTRUCTION RETURN/EXHAUST AIR , WITH LOUVERED FACE AND 3/4" BLADE SPACING ON 45° ANGLE. PROVIDE LAY-IN TYPE BORDER WHERE LOCATED IN LAY-IN TYPE CEILINGS. PROVIDE WITH SURFACE MOUNTED BORDER WHERE LOCATED IN GYPSUM CEILINGS OR ON WALLS. GRILLE SHALL BE EQUAL TO PRICE MODEL 630.

NOTES:

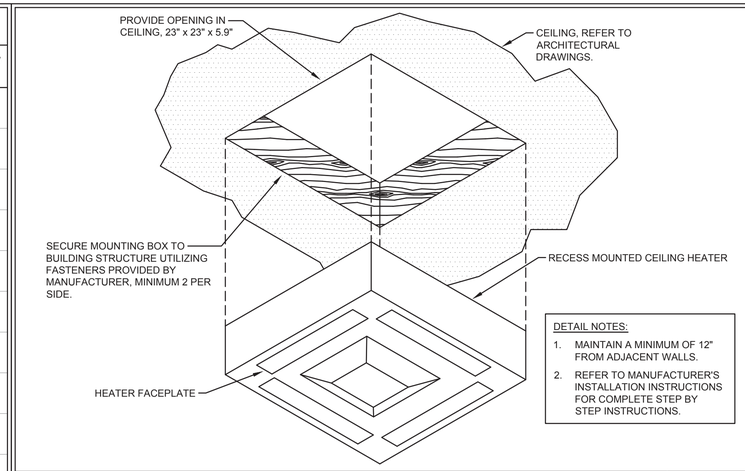
1. LAY-IN AND WALL MOUNTED DIFFUSERS AND GRILLES SHALL BE WHITE.
2. WHERE REQUIRED BY GYPSUM CEILINGS, PROVIDE WITH PLASTER RINGS OR OTHER APPURTENANCES AS REQUIRED.
3. INTERIORS OF DIFFUSERS AND GRILLES VISIBLE FROM THE FINISHED SPACE SHALL BE PAINTED FLAT BLACK.

ELECTRIC UNIT HEATER SCHEDULE

EQUIPMENT NO.	QUANTITY	MODEL NO. (CDIR SERIES)	KILOWATTS	TOTAL AMPS	CFM	APPROXIMATE AIR TEMP. RISE (°F)	VOLTAGE/PHASE
EUH1-1	1	937U03000J	3	13.2	310	60	240/1Ø

NOTES:

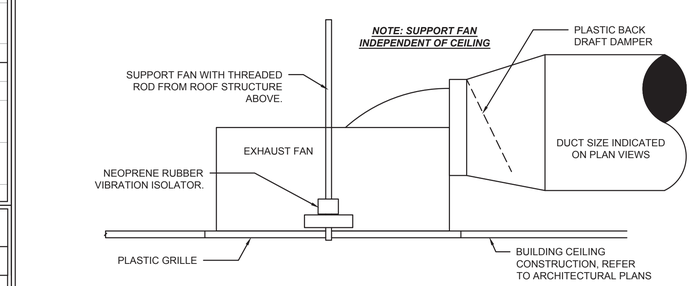
1. BASIS OF DESIGN: INDEECO OR EQUAL.
2. PROVIDE UNIT HEATERS WITH FAN ON/AUTO SWITCH, FACTORY BUILT-IN DISCONNECT SWITCH RATED FOR UNIT HEATER, STEEL FINNED TUBULAR ELEMENTS, AND CEILING MOUNTED KIT. COLOR TO BE SELECTED BY ARCHITECT.
3. TRIM KITS SHALL BE TAMPER PROOF AND PROVIDED WITH ANTI LIGATURE COMPONENTS. THERMOSTATS SHALL BE INTERNALLY MOUNTED AND NOT ADJUSTABLE FROM EXTERIOR OF UNIT. INITIALLY SET THERMOSTATS TO 70°F.



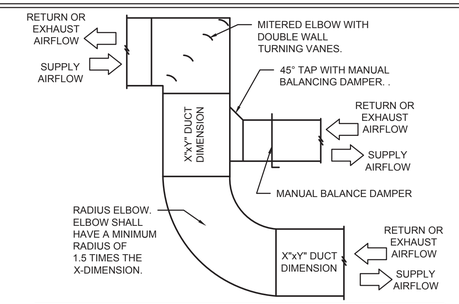
DETAIL NOTES:

1. MAINTAIN A MINIMUM OF 12" FROM ADJACENT WALLS.
2. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR COMPLETE STEP BY STEP INSTRUCTIONS.

2 RECESSED CEILING HEATER DETAIL — SCALE: NONE



3 TYPICAL CEILING MOUNTED EXHAUST FAN — SCALE: NONE



DETAIL NOTES:

1. PROVIDE ELBOW TYPE (MITERED OR RADIUS) AS INDICATED ON PLAN VIEWS.
2. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA GUIDELINES AT THE TIME OF PERMIT.

1 TYPICAL DUCTWORK DETAIL — SCALE: NONE

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
1			05		
2			06		

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY THE ENGINEER IDENTIFIED THEREIN WITH THE DATE AS INDICATED IN THE TIME STAMP USING AN SHA CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

DESIGNER : DMM
DRAWN BY: DMM
REVIEWED BY: WHT
Consultant : TOMAHAWK ENGINEERING & CONSULTING, INC.
1940 Buford Blvd. - Tallahassee, FL 32302
Phone: 850-402-3040, Fax: 850-402-9659
Certificate of Authorization #: 29709
Tomahawk Project #: 22033
RICHARD LINDBURG PE#: 62829
MICHAEL BOYLE PE#: 76983

ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 61363C

MICHAEL BOYLE LICENSE No. 76983 STATE OF FLORIDA EXPIRES 02-28-25 PROFESSIONAL ENGINEER

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: DETAILS - MECHANICAL

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

SHEET NO. M501

100% CONTRACT DOCUMENTS

PLUMBING FIXTURE SCHEDULE:

WC-1	PROVIDE A KOHLER MODEL K-3999-UT VITREOUS CHINA TANK TYPE, FLOOR MOUNTED, WATER CLOSET WITH ELONGATED BOWL, OR EQUAL. WATER CLOSET SHALL BE A (2) PIECE TYPE WATER CLOSET WITH A MAXIMUM WATER USAGE OF 1.28 GALLONS PER FLUSH AND 16-1/2" HIGH BOWL. TANK TO BE INSULATED AND COME COMPLETE WITH TANK COVER LOCKS. PROVIDE WITH A EXTRA HEAVY SOLID PLASTIC SEAT WITH AN OPEN FRONT AND SELF-SUSTAINING STAINLESS STEEL CHECK HINGES EQUAL TO BEMIS 1655SSCT. PROVIDE COLD INLET WITH 1/4 TURN ANGLE BALL STOP WITH 1/2" IPS SWEAT INLET AND 3/8" IPS COMPRESSION OUTLET EQUAL TO BRASSCRAFT MODEL KTR19X. STOP TO BE ALL BRASS WITH REMOVABLE HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOP WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLY FROM STOP TO WATER CLOSET. PROVIDE WATER CLOSET WITH HEAVY DUTY CLOSET FLANGE MATCHING PIPING MATERIAL AND WAX RING. WATER CLOSET AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT WITH FLUSH HANDLE ON WIDE SIDE OF ROOM.
L-1	PROVIDE A KOHLER MODEL K-2031 VITREOUS CHINA WALL HUNG LAVATORY WITH FLOOR MOUNTED CONCEALED ARM CARRIER, OVERFLOW AND SINGLE FAUCET HOLE OR EQUAL. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH CLEANOUT EQUAL TO PROFLOW MODEL PFPTB104. PROVIDE OFFSET LAVATORY GRID DRAIN EQUAL TO PROFLO MODEL PFGD101. PROVIDE A CHICAGO FAUCETS MODEL 3510-E2805AB SINGLE HOLE AND SINGLE SUPPLY FAUCET. FAUCET TO HAVE SINGLE LEVER HANDLE, STAINLESS STEEL HOSE AND 0.5 GPM VANDAL PROOF NON-AERATING LAMINAR FLOW OUTLET. PROVIDE COLD INLET WITH 1/4 TURN ANGLE BALL STOP WITH 1/2" IPS SWEAT INLET AND 3/8" IPS COMPRESSION OUTLET EQUAL TO BRASSCRAFT MODEL KTR19X. STOP TO BE ALL BRASS WITH REMOVABLE HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOP WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLY FROM STOP TO FAUCET INLET. PROVIDE FULLY ADJUSTABLE CONCEALED ARM, FLOOR MOUNTED LAVATORY CARRIER, ADJUSTED TO ADA HEIGHT EQUAL TO ZURN Z1231. PROVIDE HANDICAP INSULATION. LAVATORY AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT.
MS-1	PROVIDE A MUSTEE MODEL 63M 24"x 24"x10" FIBERGLASS MOP SINK OR EQUAL. MOP SINK TO BE COMPLETE WITH INTEGRAL STAINLESS STEEL DRAIN BODY AND STAINLESS STEEL CAPS ON ALL CURBS. PROVIDE MOP HANGER CONSISTING OF 24"x3" WIDE STAINLESS STEEL PLATE WITH 3 RUBBER TOOL GRIPS, HOSE AND HOSE BRACKET, AND MUSTEE MODEL 67.2424 24"x24" STAINLESS STEEL WALL GUARD ON 2 SIDES. PROVIDE A T&S BRASS MODEL B-0665-BSTC-R CHROME PLATED BRASS FAUCET OR EQUAL. FAUCET TO BE COMPLETE WITH VACUUM BREAKER, INTEGRAL CHECK STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 3/4 INCH HOSE THREAD ON SPOUT.
WH-1	PROVIDE A WOODFORD MODEL 67 FREEZELESS WALL HYDRANT. HYDRANT TO BE FREEZELESS, AUTOMATIC DRAINING WITH BACKFLOW PREVENTER, 3/4" INLET AND OUTLET, LOOSE KEY OPERATION AND CHROME PLATED FINISH. COORDINATE WITH WALL THICKNESS PRIOR TO ORDERING.
FD-1	PROVIDE A ZURN MODEL Z415B-VP FLOOR DRAIN OR EQUAL. FLOOR DRAIN SHALL HAVE A COATED CAST IRON BODY, BOTTOM OUTLET, COMBINATION REVERSIBLE CLAMP COLLAR AND ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, 3" OUTLET, 6" ROUND TOP, AND VANDAL PROOF. PROVIDE WITH DEEP SEAL TRAP AND TRAP PRIMER CONNECTION.
TP-1	PROVIDE A PRECISION PLUMBING PRODUCTS MODEL PRO1-500 OR EQUAL. TRAP PRIMER TO BE INLINE, FLOW ACTIVATED AND ALL BRASS CONSTRUCTION. PROVIDE A PRECISION PLUMBING PRODUCTS DISTRIBUTION UNIT MODEL DU-U FOR PRIMING 2 TO 4 TRAPS.
WHA	PROVIDE A WATTS MODEL 15M2 WATER HAMMER ARRESTOR OR EQUAL. ARRESTOR TO BE PISTON OR BELLOWS TYPE, SUITABLE FOR DOMESTIC POTABLE WATER, PDI LISTED AND SIZED PER PDI RECOMMENDATIONS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHAP	AS HIGH AS POSSIBLE
BF	BELOW FLOOR
BG	BELOW GRADE
CO	CLEANOUT
DCW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DHW	DOMESTIC HOT WATER (120°F)
DN	DOWN
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FD	FLOOR DRAIN
HB	HOSE BIBB
IE	INVERT ELEVATION
IW	INDIRECT WASTE
L	LAVATORY
MS	MOP SINK
NTS	NOT TO SCALE
SAN	SANITARY WASTE (OUTSIDE OF BUILDING)
SV	SHUTOFF VALVE
U	URINAL
V	VENT
W	SANITARY WASTE (INSIDE OF BUILDING)
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR

SYMBOLS LEGEND

XX-1	PLUMBING FIXTURE TAG
	DCW PIPING
	DHW OR DTW PIPING
	DTWR PIPING
	WASTE PIPING
	VENT PIPING
	ROUND FLOOR DRAIN/SINK
	PIPE BREAK
	PIPE TURNED UP
	PIPE TURNED DOWN
	BOTTOM PIPE TAP
	PIPE CAP
	FLOOR OR GRADE CLEANOUT
	DIRECTION OF FLOW
	BALL VALVE
	CHECK VALVE
	WATER HAMMER ARRESTOR

PLUMBING SPECIFICATIONS

1	ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR. ALL WORK SHALL CONFORM TO THE 2020 FBC-PLUMBING, AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES.
2	ABOVE & BELOW GROUND DOMESTIC VENT PIPING AND SANITARY PIPING SHALL BE SCHEDULE 40 PVC OF SIZE INDICATED ON PLAN VIEWS. PIPING SHALL BE SLOPED IN ACCORDANCE WITH FLORIDA BUILDING CODE, PLUMBING AND PROVIDED WITH SOLVENT WELDED FITTINGS. PROVIDE TRANSITION FITTINGS AND METAL TO PLASTIC FITTINGS AND APPURTENANCES WHERE REQUIRED TO CONNECT TO PLUMBING FIXTURES AS INDICATED ON PLAN VIEWS.
3	DOMESTIC HOT, TEMPERED AND COLD WATER PIPING SHALL BE ONE OF THE FOLLOWING: SCHEDULE 80 CPVC PIPING & SOLVENT WELDED SCHEDULE 80 CPVC FITTINGS OR ASTM B88 TYPE "L" COPPER PIPING OF SIZE INDICATED ON PLAN VIEWS. PIPING CONNECTIONS FOR COPPER SHALL BE WROUGHT COPPER AND SOLDERED WITH SOLDER MATERIALS SUITABLE FOR USE IN POTABLE WATER SYSTEMS AND APPROVED FOR USE BY THE FLORIDA BUILDING CODE, PLUMBING. PROVIDE TRANSITION FITTINGS AND METAL TO PLASTIC FITTINGS AND APPURTENANCES WHERE REQUIRED. ADDITIONALLY, PROVIDE SOLDERED AND THREADED NIPPLES, COUPLINGS, OR OTHER PIPING COMPONENTS REQUIRED TO CONNECT TO PLUMBING FIXTURES AS INDICATED ON PLAN VIEWS. ALL PIPING AND MATERIALS SHALL BE SUITABLE FOR USE IN POTABLE WATER SYSTEMS. CLEAN WATER PIPING AS IT IS INSTALLED AND KEEP CAPPED TO ENSURE DEBRIS AND DIRT DO NOT CONTAMINATE PIPING PRIOR TO PLACING IN SERVICE.
4	CLEAN AND DISINFECT PIPING PRIOR TO PLACING IN SERVICE ACCORDING TO THE FOLLOWING:
4.1	COMPLETELY FLUSH SYSTEM WITH CLEAN WATER UNTIL ALL DIRT AND DEBRIS ARE REMOVED AND CLEAN WATER FLOWS FREELY.
4.2	ISOLATE AND FILL SYSTEM WITH A LEAST 50 PPM CHLORINE AND LET STAND FOR A MINIMUM OF 24-HOURS.
4.3	REMOVE WATER AND ISOLATE AND FILL SYSTEM WITH 200 PPM CHLORINE AND LET STAND FOR A MINIMUM OF 3-HOURS.
4.4	FLUSH SYSTEM WITH CLEAN POTABLE WATER UNTIL CHLORINE IS NO LONGER IN SYSTEM.
4.5	SUBMIT WATER SAMPLES TO THE AUTHORITY HAVING JURISDICTION. WHERE WATER IS FOUND TO BE UNACCEPTABLE, REPEAT PROCEDURES UNTIL WATER MEETS REQUIREMENTS.
4.6	PROVIDE AND SUBMIT REPORTS OF DISINFECTION PROCEDURES.
5	PROVIDE DIELECTRIC UNIONS AND FLANGE KITS FOR CONNECTIONS OF DISSIMILAR METALS.
6	DOMESTIC COLD WATER, HOT WATER AND TEMPERED WATER PIPING SHALL BE INSULATED WITH A MINIMUM 1" THICK CLOSED-CELL FOAM INSULATION EQUAL TO ARMACELL TYPE AP ARMAFLEX TUBE INSULATION. EXTERIOR PIPING INSULATION TO BE COVERED WITH A 54 MIL THICKNESS ALUMINUM ALL SERVICE WRAP TAPED SEAMS EQUAL TO ALUMAGUARD ALL-WEATHER CLADDING. PROVIDE PREFORMED ALUMINUM COVERS ON FITTINGS AND ELBOWS. INSULATION SHALL HAVE AN INSTALLED MINIMUM CONDUCTIVITY OF 0.24 BTU*IN/(H*SF**F).
7	ISOLATION VALVES FOR DOMESTIC WATER PIPING SHALL BE BRONZE, SINGLE PIECE, FULL PORT VALVES SUITABLE FOR USE IN POTABLE DOMESTIC WATER LINES AND COPPER PIPING. PROVIDE WITH STAINLESS STEEL TRIM.
8	PIPING SHALL BE SUPPORTED WITH TRAPEZE HANGERS SUPPORTED WITH THREADED ROD FROM STRUCTURE, OR FROM CLEVIS HANGERS. ALL SHALL MEET UL REQUIREMENTS AND MSS PIPING STANDARDS. ALL HANGER MATERIALS TO BE STAINLESS STEEL.
9	FLOOR CLEANOUTS SHALL MEET THE FOLLOWING REQUIREMENTS:
9.1	FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP.
9.2	CARPETED FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR CARPET.
9.3	TILE FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. PROVIDE WITH 18" SQUARE, 4" THICK COLLAR.
9.4	WOOD FLOOR: LACQUERED CAST IRON WITH 1-1/2" SECURING FLANGE AND A SATIN FINISHED NICKEL BRONZE COMBINED GASKETED ACCESS COVER AND PLUG.
10	CHECK VALVES SHALL BE SWING CHECK SUITABLE FOR USE IN DOMESTIC WATER LINES AND COPPER PIPING.

GENERAL PLUMBING NOTES

THESE GENERAL CONDITIONS APPLY TO THE CONTRACTOR HOLDING THE GENERAL CONTRACT AS WELL AS ALL OTHER SUB CONTRACTORS AND AGENTS REQUIRED TO PERFORM WORK ON THIS PROJECT.

1	THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO PROVIDE THE OWNER WITH A COMPLETE, FULLY OPERATIONAL SYSTEM. WORK AND COMPONENTS NOT INDICATED BUT IMPLIED SHALL BE PROVIDED AND BE PART OF THE CONTRACT.
2	THE CONTRACTOR SHALL PROVIDE ALL CORES AND SAW CUTS FOR WALLS AND FLOORS AS REQUIRED TO INSTALL PIPING AND SERVICES AS INDICATED ON THESE DOCUMENTS. THE CONTRACTOR SHALL MAKE THEMSELVES FAMILIAR WITH THE BUILDING SITE PRIOR TO PROVIDING A BID. EXTRAS FOR NOT FULLY UNDERSTANDING THE EXISTING CONDITIONS OR THIS SET OF DOCUMENTS WILL NOT BE GIVEN. WHERE BUILDING SERVICES PENETRATE EXTERIOR WALL, SLEEVE AND SEAL WATER AND WEATHER TIGHT.
3	WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2020 AND ANY OTHER APPLICABLE STATE, LOCAL, AND/OR FEDERAL CODES AND LAWS.
4	THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AND IS ALSO RESPONSIBLE FOR ALL ASSOCIATED FEES FOR SAID PERMITS AND INSPECTIONS.
5	DRAWINGS ARE DIAGRAMMATIC IN NATURE. PIPING SIZES, PIPING INVERTS, EQUIPMENT DIMENSIONS, MOUNTING HEIGHTS AND GENERAL ARRANGEMENT SHALL BE FIELD MEASURED AND VERIFIED PRIOR TO PROCUREMENT. ALL FITTINGS MAY NOT BE SHOWN. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, TAPS FOR EXISTING SANITARY AND DOMESTIC PRESSURE PIPING, TRANSITIONS, FLEXIBLE CONNECTORS, VALVES, LABOR, OR ANY OTHER WORK INDICATED OR IMPLIED FOR A FULLY FUNCTIONAL SYSTEM.
6	WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF $750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.
7	SOME PIPING MAY BE LOCATED IN WALLS THAT ARE NOT ACCESSIBLE. THE CONTRACTOR SHALL INCLUDE IN THEIR COSTS, THE CUTTING AND PATCHING OF WALLS TO ACCESS PIPING AS REQUIRED TO MAKE TIE-IN'S AS INDICATED HEREIN.
8	THE CONTRACTOR IS RESPONSIBLE FOR THE ENTIRE SITE DURING CONSTRUCTION ACTIVITIES. AS SUCH, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIONS AS REQUIRED BY LAW OR OWNER REQUIREMENTS. ANY DAMAGE DONE BY THE CONTRACTOR OR SUB OF SAID CONTRACTOR SHALL BE REPAIRED AT NO COST TO THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL BUILDING CONSTRUCTION AND ALL EQUIPMENT LOCATED WITHIN THE BUILDING OR ON SITE PREMISES.
9	WORK SHALL BE CARRIED OUT IN A NEAT WORKMAN LIKE MANNER. ALL CONSTRUCTION DEBRIS SHALL BE CLEANED UP AT THE END OF EVERY WORK DAY AND ALL CONSTRUCTION DUST SHALL BE VACUUMED UP AT THE END OF EVERY WORK DAY.
10	UNLESS NOTED OTHERWISE, ALL MATERIALS, EQUIPMENT, PIPING, FIXTURES, WIRING, CABLING, AND OTHER DEVICES REQUIRED FOR COMPLETION OF PROJECT SHALL BE NEW.
	IN GENERAL, ITEMS SHOWN ON DRAWINGS LIGHTLY COMPARED TO OTHER COMPONENTS ARE EXISTING. WHERE ITEMS ARE NOT INDICATED EXPLICITLY TO BE DEMOLISHED, IT SHALL BE ASSUMED THAT THEY ARE TO REMAIN.
11	THE CONTRACTOR SHALL GUARANTY ALL LABOR AND EQUIPMENT ASSOCIATED WITH PROJECT FOR A MINIMUM OF 1-YEAR.
12	(2) COPIES OF OPERATION AND MAINTENANCE MANUALS FOR MATERIALS AND EQUIPMENT SHALL BE PROVIDED TO THE OWNER AT PROJECT COMPLETION.
13	THE CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR EXAMINING DRAWINGS (ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL AND CIVIL) AND ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. EXTRAS WILL NOT BE GIVEN DUE TO FAILURE TO UNDERSTAND ALL CONDITIONS INVOLVED OR DISCREPANCIES BETWEEN ACTUAL DIMENSIONS AND CONDITIONS AND DIMENSIONS AND CONDITIONS INDICATED ON PLANS. WORK SHALL BE MODIFIED AND PROVIDED AS REQUIRED BY FIELD CONDITIONS AND THIS ADDITIONAL WORK SHALL BE CARRIED OUT AT NO COST TO THE OWNER.
14	EQUIPMENT AND FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND STANDARD INDUSTRY PRACTICES. WHERE DISCREPANCIES BETWEEN CONTRACT DRAWINGS AND MANUFACTURER'S REQUIREMENTS ARISE, REQUEST CLARIFICATION FROM ENGINEER.
15	PRIOR TO START-UP, PERFORM MANUFACTURER'S START-UP AND CHECKOUT PROCEDURES AND ATTACH FORMS TO OPERATION AND MAINTENANCE MANUALS.
16	PROVIDE ACCESS DOORS FOR EQUIPMENT, DAMPERS, ETC. LOCATED ABOVE GYPSUM CEILINGS OR WITHIN WALLS REQUIRING ACCESS. DOOR SIZES SHALL SUIT EQUIPMENT SERVED.
17	TRAP PRIMERS TO BE PROVIDED ON ALL FLOOR DRAINS AND WHERE INDICATED ON FLOOR SINKS.
18	REFER TO MECHANICAL DETAILS AND VENDOR DRAWINGS FOR FURTHER INFORMATION REGARDING INSTALLATION AND CONNECTION OF VENDOR PROVIDED EQUIPMENT. CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL, LEAK FREE INSTALLATION.

WATER HEATER SCHEDULE

EQUIPMENT NO.	MODEL NO.	FUEL SUPPLY (GAS OR ELEC)	STORAGE CAPACITY (GALLONS)	ELECTRIC ELEMENTS (#) KW	TOTAL OPERATING KW	RECOVERY @ 60°F RISE (GALLONS)	SET TEMP. °F	MIN. EFF.	VOLTS-PHASE	FLA	NOTES
EWH-1	DEL-30	ELEC	30	(1) 4.5	4.5	31	120	99%	240V-1Ø	18.8	1,2,3,4,5,6

NOTES:

1. BASIS OF DESIGN: A.O. SMITH (EQUAL MANUFACTURERS: BRADFORD WHITE, LOCHINVAR, STATE)
2. PROVIDE HEATER WITH A TEMPERATURE AND PRESSURE RELIEF VALVE SIZED BY THE UNIT MANUFACTURER.
3. PROVIDE UNIT WITH EXPANSION TANK (ET). SEE EXPANSION TANK SCHEDULE.
4. PROVIDE UNIT WITH WALL MOUNTING BRACKET AND DRAIN PAN. SEE DETAIL #3/P501.
5. PROVIDE HEATER WITH A VACUUM BREAKER SIZED BY THE UNIT MANUFACTURER AS REQUIRED.
6. PROVIDE UNIT WITH DRAIN PAN.

EXPANSION TANK SCHEDULE

EQUIPMENT NO.	SYSTEM SERVED	MODEL NO.	TANK VOLUME (GALLONS)	ACCEPTANCE FACTOR (%)	SYSTEM TEMP. MAX./MIN.	INITIAL FILL PRESSURE	ASME RATED	MAXIMUM SYSTEM PRESSURE	NOTES
ET-1	DOMESTIC HOT WATER	ST-5C	2.0	45%	60°F/120°F	40 PSI	NO	150 PSI	1

NOTES:

1. BASIS OF DESIGN: AMTROL

CLEANOUT SCHEDULE

	GENERAL (ALL FLOOR & EXTERIOR CLEANOUTS): DURO-COATED CAST IRON CLEANOUT WITH MEMBRANE FLANGE WITH BRONZE COUNTERSUNK PLUG. CLEANOUT CAN BE ADJUSTED TO FINISH FLOOR LEVEL AFTER CONCRETE HAS SET. COORDINATE FLOOR TYPES WITH ARCHITECTURAL PLANS.
FCO	FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. ZURN - ZN1400-BP
FCO	CARPETED FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR CARPET. ZURN - ZN1400-BP-CM
FCO	TILE FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR TILE. ZURN - ZN1400-BP-HD-X
FCO	TERRAZZO FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR TERRAZZO. ZURN - ZN1400-BP-HD-Z
GCO	EXTERIOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. PROVIDE WITH 18" SQUARE X 4" THICK CONCRETE COLLAR. ZURN - ZN1406-BP-HD
WCO	WALL: DURA-COATED CAST IRON CLEANOUT TEE, BRONZE COUNTERSUNK PLUG, WITH ROUND POLISHED STAINLESS STEEL COVER. ZURN - Z1446-BP

CODE REFERENCES

FBC, BUILDING	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, MECHANICAL	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, PLUMBING	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, TEST PROTOCOL	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FBC, ENERGY	FLORIDA BUILDING CODE, 2020 SEVENTH EDITION
FFPC	FLORIDA FIRE PREVENTION CODE, 2020 SEVENTH EDITION
NFPA 51B	STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK, 2014
NFPA 70	NATIONAL ELECTRIC CODE, 2017 EDITION
NFPA 101	LIFE SAFETY CODE, 2018 EDITION
NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY

	SYMBOL	DATE	REVISION	SYMBOL	DATE	REVISION

DESIGNER : TKE
DRAWN BY: TKE
REVIEWED BY: WHT
Consultant : TOMAHAWK ENGINEERING & CONSULTING, INC.
1940 Buford Blvd. - Tallahassee, FL 32302
Phone: 850-402-3040, Fax: 850-402-9659
Certificate of Authorization #: 29709
Tomahawk Project #: 22033
RICHARD LINDBURG PE#: 62829
MICHAEL BOYLE PE#: 76983

ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 61363C

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MICHAEL BOYLE
LICENSE
No. 76983
STATE OF FLORIDA
EXPIRES
02-28-25
PROFESSIONAL ENGINEER

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

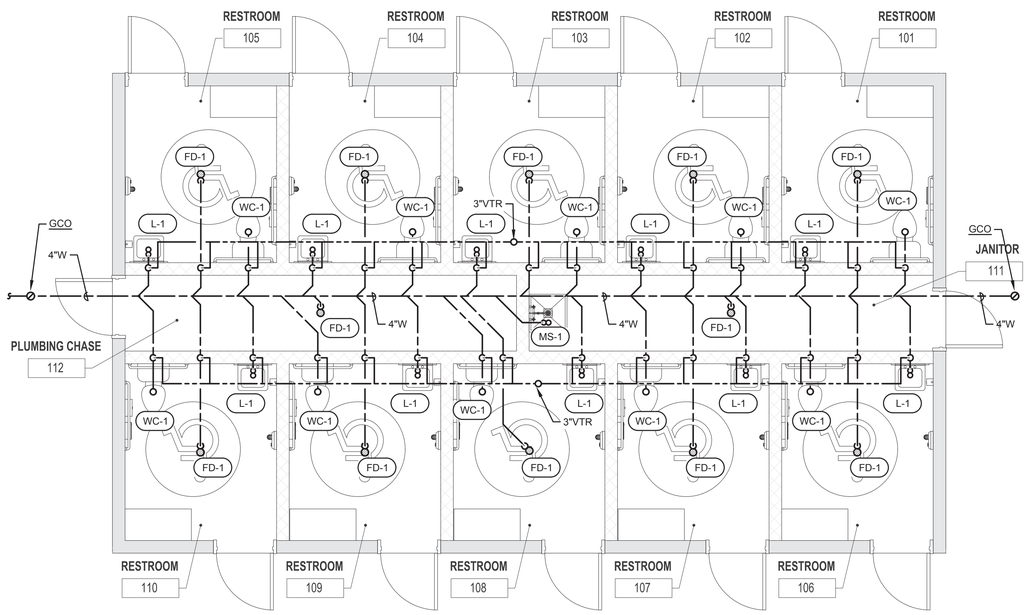
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
LEGEND, NOTES, DETAILS & SCHEDULES - PLUMBING

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

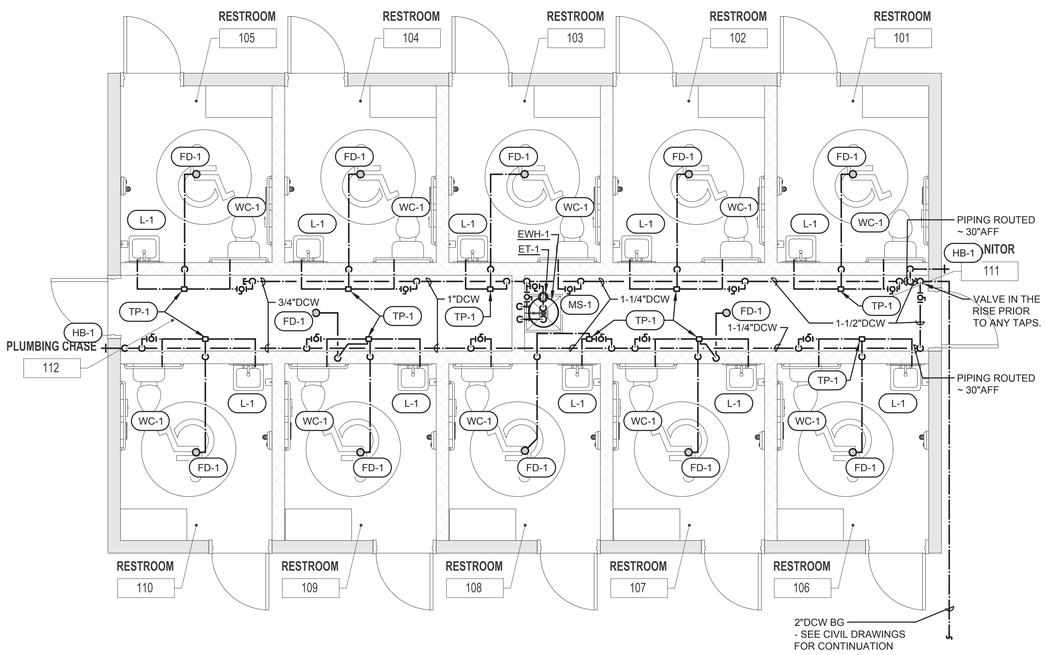
SHEET NO.
P001

100% CONTRACT DOCUMENTS



1 FLOOR PLAN - GRAVITY PLUMBING

P101 1/4" = 1'-0"



2 FLOOR PLAN - PRESSURE PLUMBING

P101 1/4" = 1'-0"

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STATE PROJECT No.:	61363C				4		

TOMAHAWK ENGINEERING & CONSULTING, INC.
1940 Buford Blvd. - Tallahassee, FL 32302
Phone: 850-402-3040, Fax: 850-402-9659
Certificate of Authorization #: 29709
Tomahawk Project #: 22033

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

DESIGNER : TKE
DRAWN BY: TKE
REVIEWED BY: WHT
Consultant : RICHARD LINDBURG PE#: 62829
MICHAEL BOYLE PE#: 76983

MICHAEL BOYLE
LICENSE
No. 76983
STATE OF FLORIDA
EXPIRES 02-28-25
PROFESSIONAL ENGINEER

SHEET TITLE: ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

FLOOR PLANS - PLUMBING

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
P101

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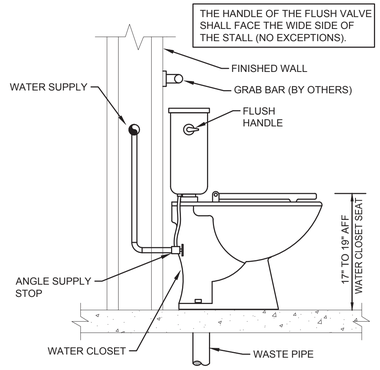
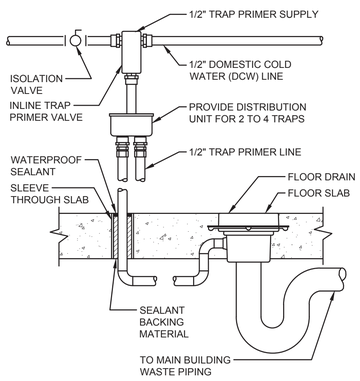
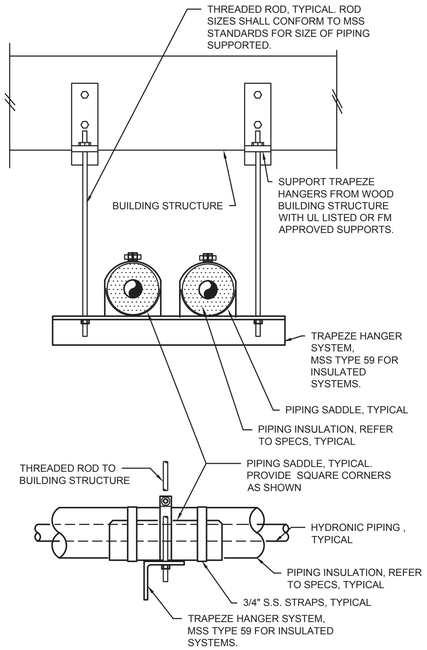


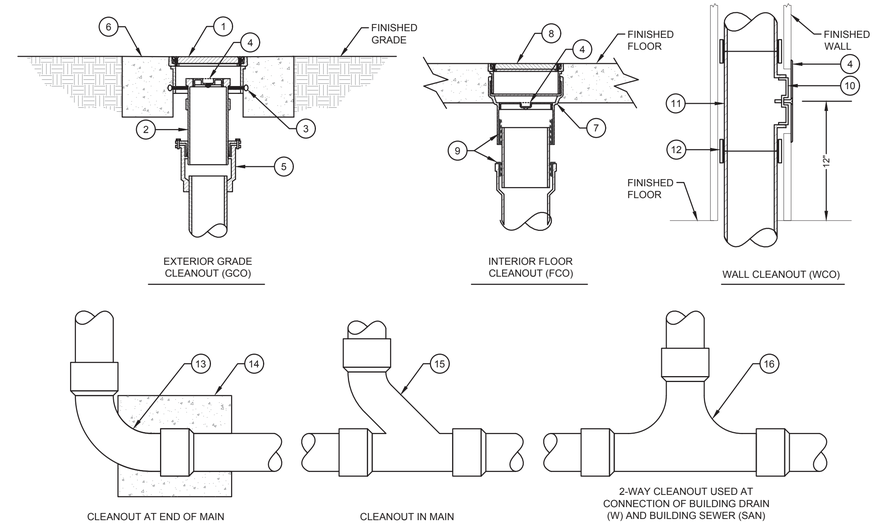
5 WATER CLOSET DETAIL SCALE: NONE



6 TRAP PRIMER DETAIL SCALE: NONE



3 HORIZONTAL PIPING SUPPORT FROM WOOD DETAIL SCALE: NONE

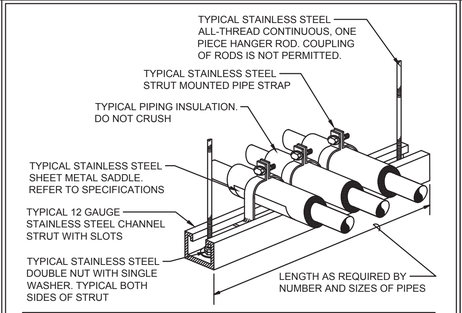


BELOW GRADE/FLOOR CLEANOUT PIPING ARRANGEMENTS

DETAIL KEY NOTES:

1	CAST IRON HOUSING WITH NICKEL BRONZE, ROUND, SECURED, SCORIATED LIGHT-DUTY COVER AND THUMB SCREWS.	9	PUSH-ON NEOPRENE RUBBER COMPRESSION GASKET.
2	CAST IRON CLEANOUT HOUSING.	10	STAINLESS STEEL ROUND WALL ACCESS COVER.
3	ADJUSTABLE THUMB SCREWS.	11	CLEANOUT TEE.
4	TAPERED THREAD, RECESSED HEAD, BRONZE CLEANOUT PLUG.	12	NO-HUB COUPLING (FOR ABOVE GROUND APPLICATION ONLY).
5	EXPANSION JOINT.	13	LONG SWEEP ELBOW.
6	18"x18" SQUARE CONCRETE PAD A MINIMUM OF 4" THICK.	14	12" x 12" x 12" CONCRETE THRUST BLOCK.
7	2 PIECE CAST IRON CLEANOUT WITH ADJUSTABLE HEAD.	15	COMBINATION WYE AND EIGHTH BEND FITTING.
8	NICKEL BRONZE, ROUND, SECURED, SCORIATED LIGHT-DUTY COVER.	16	TWO-WAY CLEANOUT FITTING.

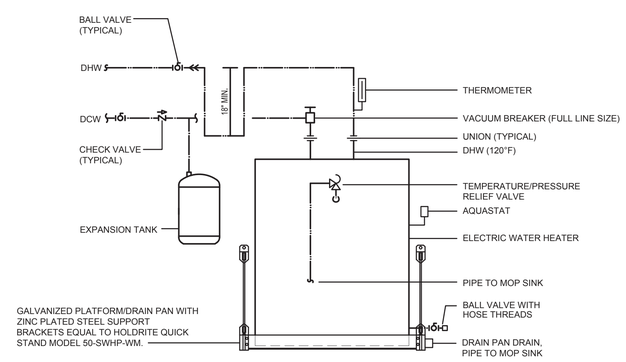
1 CLEANOUT DETAILS SCALE: NONE



NOTE:

1. REFER TO SPECIFICATIONS AND FLOOR PLANS FOR MATERIALS AND SIZES.
2. SPECIFIED HANGER ROD, STRUT, NUTS, WASHERS AND PIPE STRAPS SHALL BE OF STAINLESS STEEL MATERIALS.

4 TRAPEZE HANGER DETAIL SCALE: NONE



2 WALL HUNG WATER HEATER DETAIL (EWH-1) SCALE: NONE

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REVIEWED BY: WHT	STATE PROJECT No.: 61363C						

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1940 Buford Blvd. - Tallahassee, FL 32302
Phone: 850-402-3040, Fax: 850-402-9659
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RICHARD LINDBURG PE#: 62829
MICHAEL BOYLE PE#: 76983

MICHAEL BOYLE LICENSE No. 76983 STATE OF FLORIDA EXPIRES 02-28-25 PROFESSIONAL ENGINEER

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

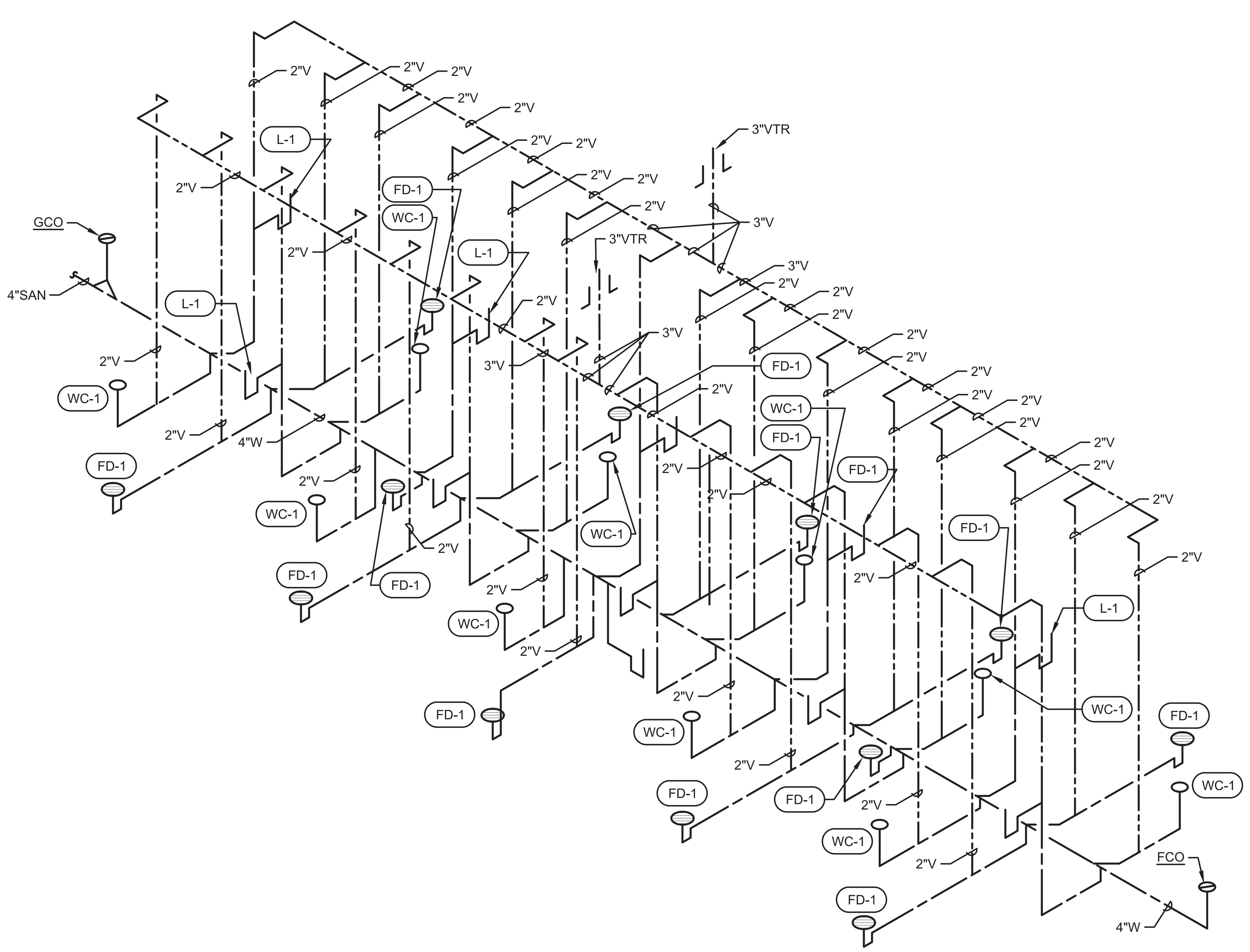
SHEET TITLE: DETAILS & SCHEDULES - PLUMBING

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

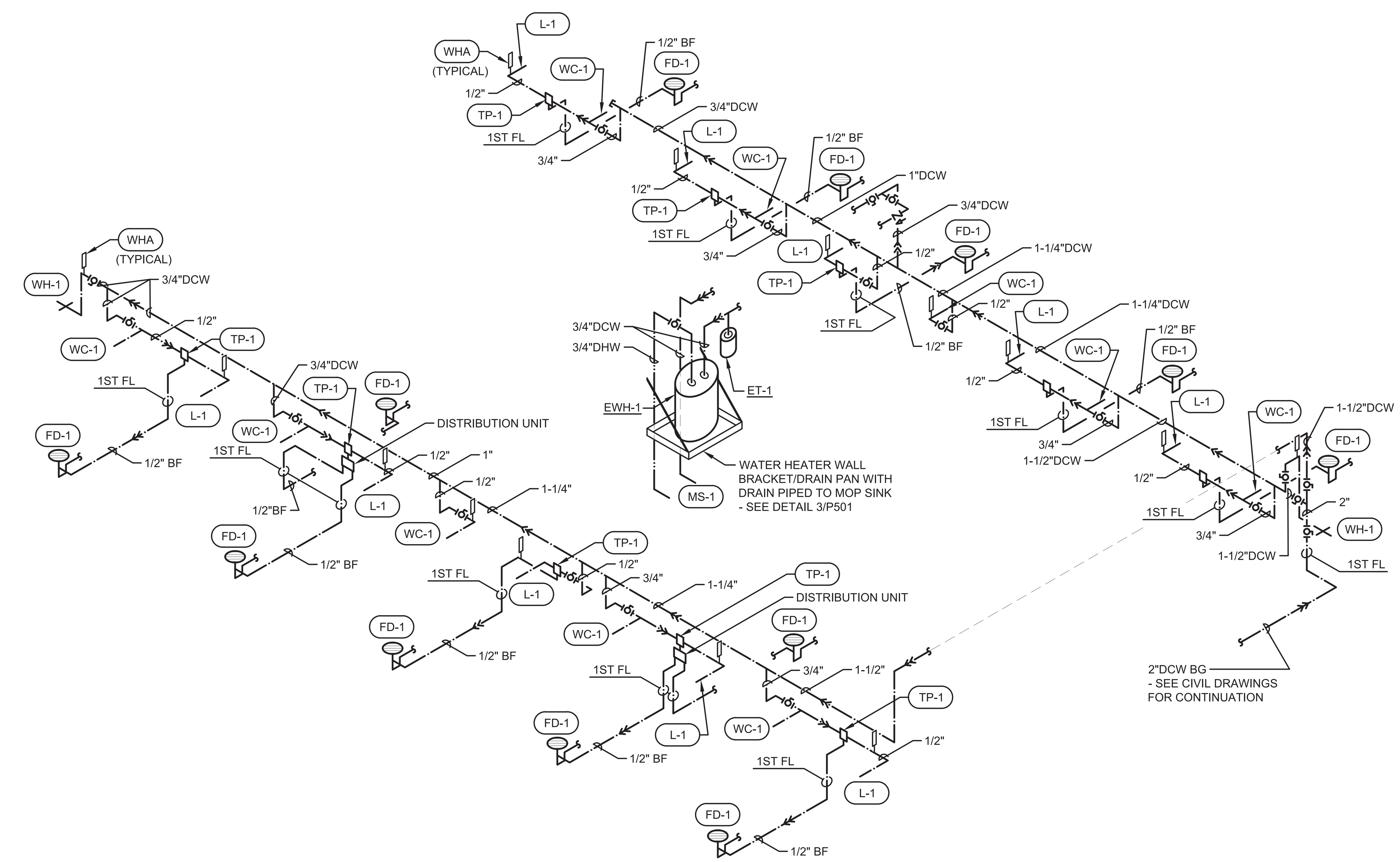
SHEET NO. P501

100% CONTRACT DOCUMENTS

FIXTURE PIPE CONNECTION SIZES					
FIXTURE TYPE	DESCRIPTION	COLD WATER	HOT WATER 120°F	WASTE	VENT
WC-1	WATER CLOSET	1/2"	-	4"	2"
L-1	LAVATORY	1/2"	-	2"	2"
MS-1	MOP SINK	3/4"	3/4"	3"	2"
OB-1	OUTLET BOX	1/2"	-	-	-
WH-1	WALL HYDRANT	3/4"	-	-	-
FD-1	FLOOR DRAIN	1/2"	-	2"	2"
TP-1	TRAP PRIMER	1/2"	-	-	-
EWH-1	ELECTRIC WATER HEATER	3/4" (INLET)	3/4" (OUTLET)	-	-



1 ISOMETRICS - GRAVITY PLUMBING
P601 1/4" = 1'-0"



2 ISOMETRICS - PRESSURE PLUMBING
P601 1/4" = 1'-0"

DESIGNER: TKE
DRAWN BY: TKE
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SHEET TITLE
ISOMETRICS - PLUMBING

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
P601

100% CONTRACT DOCUMENTS

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
GENERAL	
	CONCEALED RACEWAY AND BRANCH CIRCUIT WIRING SYSTEM.
CKT	HOMERUN. LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT. 2-12 AWG, 12 G, 1/2"C UNLESS OTHERWISE NOTED.
POWER & DEVICE	
	LIGHTING PANEL BOARD. 72" ABOVE FLOOR TO TOP OF PANEL.
	DISCONNECT SWITCH, TYPE AS INDICATED. MOUNT WITHIN SITE OF UNIT. 42" ABOVE FLOOR TO TOP.
	EQUIPMENT CONNECTION TYPE AS INDICATED OR INDICATED BY EQUIPMENT MANUFACTURER.
	MOTOR CONNECTION, TYPE AS INDICATED.
	NORMAL BRANCH DUPLEX CONVENIENCE OUTLET. 18"AF TO BOTTOM UNLESS OTHERWISE NOTED.
GFI	NORMAL BRANCH DUPLEX CONVENIENCE OUTLETS IN COMMON BOX ABOVE COUNTER 4" ABOVE BACK SPLASH TO CENTERLINE UNLESS OTHERWISE NOTED. GFI
GFI WP	SURFACE MOUNTED NORMAL BRANCH GFI AND WETHER PROOF DUPLEX CONVENIENCE OUTLET. 18"AF TO BOTTOM UNLESS OTHERWISE NOTED.
LIGHTING	
	4ft. NORMAL BRANCH SURFACE LED FIXTURE WITH BATTERY BACKUP INDICATED TO SCALE LOWER CASE LETTER INDICATES SWITCH LEG
	WALL MOUNTED LIGHTING FIXTURE. HEIGHT AS INDICATED.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
A	AMPERES
AF	ABOVE FINISHED FLOOR
AF	AMP FRAME
AFC	AVAILABLE FAULT CURRENT
AG	ABOVE GRADE
AIC	AMP INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAGE
BKR	BREAKER
C	CONDUIT
DCO	DUPLEX CONVENIENCE OUTLET
EF	EXHAUST FAN
FLA	FULL LOAD AMPERES
GND OR G	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
IN	INCHES
LTS	LIGHTS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER CURRENT PROTECTION
PH OR Ø	PHASE
PNL	PANEL
TR	TAMPER RESISTANT
V	VOLTS
VA	VOLT AMPS
W	WATTS
W	WIRE
(X)	EXISTING TO REMAIN
XFMR	TRANSFORMER

ELECTRICAL SPECIFICATIONS

DIVISION 16 - ELECTRICAL

16010 BASIC ELECTRICAL REQUIREMENTS

A ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE CODES, STANDARDS AND PRACTICES LISTED HEREIN, AND THEIR RESPECTIVE DATES ARE FURNISHED AS THE MINIMUM LATEST REQUIREMENTS.

1 STATE OF FLORIDA
2 LIFE SAFETY CODE - NFPA 101 (2018)
3 UNDERWRITERS LABORATORIES, INC. PUBLICATIONS
4 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
5 AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
6 NATIONAL ELECTRICAL CODE - NFPA 70 (2017)
7 NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)
8 NATIONAL FIRE PROTECTION ASSOCIATION 72 (2016)
9 THE STATE FIRE PREVENTION CODE, 4A60.
10 BUILDING CODE: FLORIDA BUILDING CODE (2020), 7TH EDITION

B SCOPE OF WORK: THE WORK PROVIDED UNDER THIS DIVISION SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS, INSPECTIONS AND REINSPECTION FEES, TOOLS, EQUIPMENT, TRANSPORTATION, INSURANCE, TEMPORARY PROTECTION, TEMPORARY LIGHTING, SUPERVISION AND INCIDENTAL ITEMS ESSENTIAL FOR PROPER INSTALLATION AND OPERATION, EVEN THOUGH NOT SPECIFICALLY MENTIONED OR INDICATED BUT WHICH ARE USUALLY PROVIDED OR ARE ESSENTIAL FOR PROPER INSTALLATION AND OPERATION OF ALL ELECTRICAL SYSTEMS AS INDICATED IN CONTRACT DOCUMENTS.

C NOTICES: GIVE ALL NOTICES, FILE ALL PLANS, PAY ALL FEES, OBTAIN ALL PERMITS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION. INCLUDE ALL FEES IN THE BID PRICE.

D INTERPRETATION OF DRAWINGS:

1 THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS OF CONDUIT RUNS, OUTLET BOXES, JUNCTION BOXES, PULL BOXES, ETC. THE LOCATIONS OF EQUIPMENT, APPLIANCES, FIXTURES, CONDUITS, OUTLETS, BOXES AND SIMILAR DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE AS ACCEPTED BY THE ENGINEER DURING CONSTRUCTION. OBTAIN IN THE FIELD ALL INFORMATION RELEVANT TO THE PLACING OF ELECTRICAL WORK AND IN CASE OF INTERFERENCE WITH OTHER WORK, PROCEED AS DIRECTED BY THE ENGINEER AND PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK IN AN ACCEPTABLE MANNER.

2 DISCREPANCIES: NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES FOUND DURING CONSTRUCTION OF THE PROJECT AND DO NOT PROCEED WITH THAT PORTION OF THE PROJECT, UNTIL A WRITTEN DEFINITIVE STATEMENT IS RECEIVED PROVIDING CLEAR DIRECTION. IF A CONFLICT EXISTS BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODE OR STANDARD, THE MOST STRINGENT REQUIREMENT SHALL BE INCLUDED FOR THIS PROJECT. THE ENGINEER SHALL MAKE THE DECISION REGARDING QUESTIONABLE AREAS OF CONFLICT.

E INVESTIGATION ON SITE:

1 GENERAL: BEFORE COMMENCING THE WORK, VERIFY EXISTING CONDITIONS AT THE PREMISES INCLUDING, BUT NOT LIMITED TO, EXISTING STRUCTURAL FRAME, LOCATION AND ALL DIMENSIONS; EXISTING OPENINGS AND CHARACTERISTICS; EXISTING WALL AND PARTITION LOCATIONS, CHARACTERISTICS AND RELATIONSHIP TO EACH OTHER; EXISTING MECHANICAL AND ELECTRICAL WORK, EQUIPMENT TYPE, AND SHALL EXAMINE ALL ADJOINING WORK ON WHICH HIS WORK IF ANYWAY DEPENDENT FOR ITS PERFECT EFFICIENCY ACCORDING TO THE INTENT OF THE CONTRACT DOCUMENTS.

2 POWER OUTAGE: SPECIAL ATTENTION IS CALLED TO THE FACT THAT WORK INVOLVED IS IN CONNECTION WITH EXISTING BUILDINGS WHICH REMAIN IN OPERATION WHILE WORK IS BEING PERFORMED. WORK MUST BE DONE IN ACCORDANCE WITH THE PRIORITY SCHEDULE. SCHEDULE WORK FOR A MINIMUM OUTAGE TO OWNER. REQUEST WRITTEN PERMISSION AND RECEIVE WRITTEN ACCEPTANCE FROM THE OWNER NO LATER THAN 24 HOURS IN ADVANCE OF ALL POWER AND COMMUNICATION SHUT-DOWNS. PERFORM WORK REQUIRED AT OTHER THAN STANDARD WORKING HOURS WHERE OUTAGES CANNOT BE ACCEPTED BY OWNER DURING REGULAR WORKING HOURS. PROTECT EXISTING BUILDINGS AND EQUIPMENT DURING CONSTRUCTION.

3 SPECIAL CONSIDERATIONS: SPECIAL ATTENTION IS CALLED TO THE FACT THAT THERE WILL BE PIPING, FIXTURES OR OTHER ITEMS IN THE EXISTING BUILDING WHICH MUST BE REMOVED OR RELOCATED IN ORDER TO PERFORM THE ALTERATION WORK. BID SHALL INCLUDE ALL REMOVAL AND RELOCATION REQUIRED FOR COMPLETION OF THE ALTERATIONS AND THE NEW CONSTRUCTION.

4 OWNER'S SALVAGE: THE OWNER RESERVES THE RIGHT TO INSPECT THE MATERIAL SCHEDULED FOR REMOVAL AND SALVAGE ANY ITEMS HE DEEMS USABLE AS SPARE PARTS.

F EXISTING CONDITIONS:

1 SUPPORT: ALL EXISTING CONDUIT AND CABLES WITHIN THE AREA OF RENOVATION SHALL BE PROVIDED WITH PROPER SUPPORTS AS SPECIFIED FOR NEW WORK IN OTHER SECTIONS OF THIS SPECIFICATION.

ELECTRICAL SPECIFICATIONS

2 INSTALLATION: ALL EXISTING ELECTRICAL WHICH IS DESIGNATED FOR REWORKING OR REQUIRES RELOCATION, REPAIR OR ADJUSTMENT SHALL CONFORM TO ALL APPLICABLE CODES AND SHALL BE TREATED AS NEW WORK COMPLYING TO ALL SECTIONS OF THIS SPECIFICATION.

3 VIOLATIONS: WHERE EXISTING CONDITIONS ARE DISCOVERED WHICH ARE NOT IN COMPLIANCE WITH THE CODES AND STANDARDS, THE CONTRACTOR SHALL SUBMIT PROPER DOCUMENTATION TO THE ARCHITECT FOR CLARIFICATION AND CORRECTIVE WORK DIRECTION. EXISTING CONDITIONS SHALL NOT REMAIN WHICH WILL CREATE A DISAPPROVAL OF THE RENOVATED AREA.

4 PATCHING: ALL EXISTING CONDUIT AND CABLE PENETRATIONS SHALL BE PROPERLY FIRE TREATED PER CODE AND SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL THOROUGHLY INSPECT ALL EXISTING LOCATIONS AND INCLUDE THE COST OF PATCHING AND REPAIR IN HIS PROPOSED CONSTRUCTION COST.

G ALL MATERIALS SHALL BE NEW, FREE FROM DEFECTS AND SHALL BE EITHER U.L. LABELED, U.L. LISTED OR BEAR THE SEAL OF A NATIONALLY RECOGNIZED ELECTRICAL TESTING LABORATORY.

H SHOP DRAWINGS ARE REQUIRED FOR ALL MATERIALS AND EQUIPMENT EXCLUDING CONDUIT, WIRE, AND WIRING DEVICES.

I ALL EQUIPMENT SHALL BE FIRMLY MOUNTED USING APPROVED HANGERS ATTACHED TO STRUCTURAL PORTIONS OF THE BUILDING. SUPPORTING WITH TIE WIRE IS PROHIBITED. LIGHT FIXTURES RECESSED IN CEILINGS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE INDEPENDENT OF THE CEILING SYSTEM.

J TEMPORARY LIGHT AND POWER SHALL BE PROVIDED AS REQUIRED.

16030 ELECTRICAL IDENTIFICATION

A LANGUAGE ALL IDENTIFICATION SHALL BE IN ENGLISH.

B EQUIPMENT SYSTEM MARKERS SHALL BE ENGRAVED PLASTIC, LAMINATE NAMEPLATES AND SHALL BE ADHESIVE OR PRE-TENSIONED SNAP ON COLOR CODED, SYSTEM MARKING MATERIALS.

C CONDUIT, RACEWAYS, BOXES, ETC. SHALL BE SPOT PAINTED. CONDUIT SHALL BE IDENTIFIED WITHIN 6 INCHES OF THE BOX OR ENCLOSURE. THE ENTIRE BOX COVER PLATE SHALL BE PAINTED.

D USE FOLLOWING COLORS FOR COLOR BANDS AND FOR COLOR CODING;

SYSTEM - COLOR

1 NORMAL POWER - BLUE

E CABLE AND CONDUCTOR IDENTIFICATION WILL BE AS PER NFPA 70.

16110 BASIC MATERIALS AND METHODS

A RACEWAYS AND FITTINGS:

1 ALL WIRING SHALL BE INSTALLED IN APPROPRIATE RACEWAY SYSTEMS OF PVC SCHEDULE 80.
2 FLEXIBLE CONDUIT SHALL BE USE ONLY FOR FIXTURE WHIPS AND SHALL NOT EXCEED 72".
3 ALL CONDUIT SHALL HAVE AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT THE ENTIRE LENGTH OF THE CIRCUIT WITHIN THE CONDUIT.

16120 WIRES AND CABLES

A ALL BRANCH CIRCUITS AND FEEDERS SHALL BE COPPER WITH THHN OR THWN INSULATION. MINIMUM SIZE #12 AWG. SIZES #10 AWG AND SMALLER SHALL BE SOLID.

B COLOR CODING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE, 2014 EDITION SPECIFICALLY. PHASE CONDUCTORS OF EACH VOLTAGE SYSTEM MUST BE OF A DIFFERENT COLOR. NEUTRALS SHALL BE WHITE FOR 120/208 AND GRAY FOR 277/480. EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN INSULATED.

C ALL SINGLE PHASE CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS. NO NEUTRAL CONDUCTORS SHALL BE SHARED.

16130 OUTLET BOXES

A OUTLET BOXES SHALL BE THERMOPLASTIC. SECTIONAL BOXES ARE NOT ACCEPTABLE. BOXES SHALL BE 4" SQUARE AND 1-1/2" DEEP GENERALLY. LARGER BOXES SHALL BE USED AS REQUIRED BY CODE.

16140 WIRING DEVICES

A ALL RECEPTACLES SHALL BE 20 AMP, 125 VOLT GROUNDING TYPE, (SPECIFICATION GRADE) AND MOUNTED AT 18" AFF.

B SWITCHES SHALL BE 20 AMP, 125V SILENT TYPE, SPECIFICATION GRADE, AND MOUNTED AT 48" AFF.

C DEVICE PLATES SHALL BE THERMOPLASTIC COLOR MATCHING DEVICE. DEVICE COLORS SHALL BE SELECTED BY ARCHITECT.

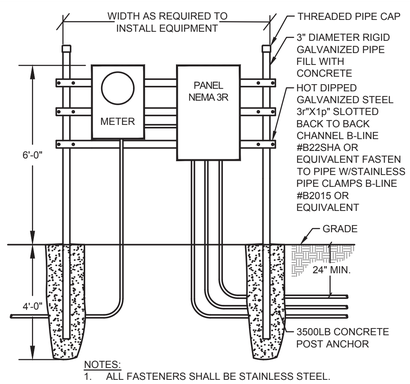
D APPROVED MANUFACTURERS: HUBBEL, PASS & SEYMOR, LEVITON.

16500 LIGHTING

1 LIGHTING SHALL BE DESIGNED FOR TYPE OF TASK INVOLVED AND IN GENERAL SHALL UTILIZE 4000-DEGREE K. LED.

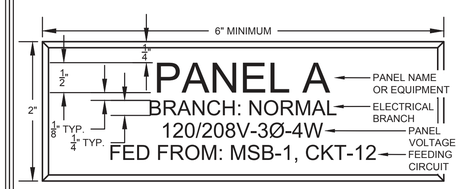
LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS #	LAMPS DESCRIPTION	LUMINAIRE DESCRIPTION	MANUFACTURER	CATALOG #
S1E	NA	LED 2775 LUMENS 25W 4000K >/= 80CRI	4'-0" LED VANDAL RESISTANT LIGHT WITH POLYCARBONATE LENS AND UNIVERSAL POWER SUPPLY. PROVIDED WITH 90 MINUTE BATTERY BACKUP.	LUMINAIRE OR EQUIVALENT	VPF4-4FT-NODIM-25W-40K-MVOLT-OP-WHT-EMB310
W1	NA	LED 1970 LUMENS 20W 4000K >/= 80CRI	LED WALL MOUNTED VANDAL RESISTANT LIGHT WITH POLYCARBONATE LENS AND UNIVERSAL POWER SUPPLY. *ARCHITECT TO DETERMINE FINISH.	LITHONIA OR EQUIVALENT	DSXW1 LED 10C 530 40K T4M MVOLT VG *



NOTES:
1. ALL FASTENERS SHALL BE STAINLESS STEEL.

3 UNISTRUT FRAMING DETAIL — SCALE: NONE



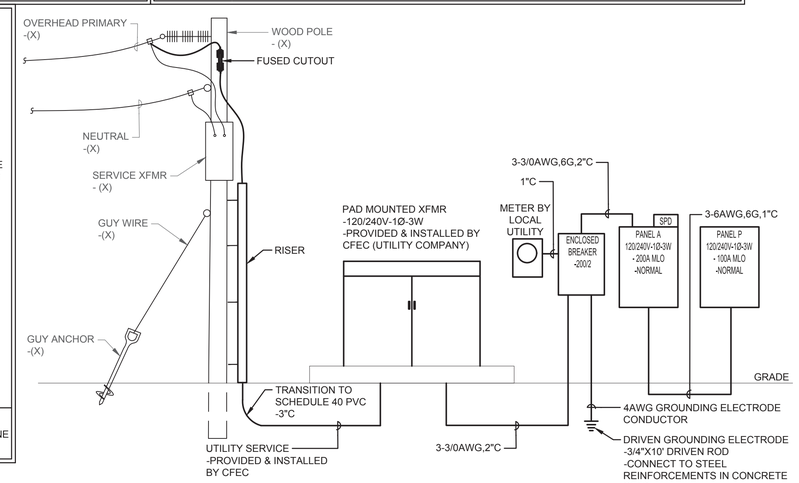
NOTE:
1. PROVIDE ENGRAVED TAGS FOR PANELS, STARTERS, DISCONNECTS, TRANSFORMERS, CONTROL AND FIRE ALARM, NAC PANELS AND AS INDICATED IN THE SPECIFICATIONS.

2. TAG SHALL BE MINIMUM 1/16" THICK WITH THE FOLLOWING COLOR CODE:

BRANCH	BACKGROUND	LETTERS
NORMAL	BLUE	WHITE

3. SERVICE EQUIPMENT LABEL SHALL ALSO INCLUDE THE CALCULATED AVAILABLE FAULT CURRENT AND DATA CALCULATED PRE NEC 110.24 (2011)

2 NAME PLATE DETAIL — SCALE: NONE



1 RISER DIAGRAM - RESTROOM - ELECTRICAL
SCALE: NONE

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DESIGNER : BCP	ISSUE DATE: 28 MARCH 2023	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
DRAWN BY: BCP	COMP. FILE No.: 18980						
REVIEWED BY: RJL	STATE PROJECT No.: 61365C						

Consultant : TOMAHAWK ENGINEERING & CONSULTING, INC.
1940 Buford Blvd. - Tallahassee, FL 32302
Phone: 850-402-3040, Fax: 850-402-9659
Certificate of Authorization #: 29709
Tomahawk Project #: 22033

RICHARD LINDBURG PE#: 62829
MICHAEL BOYLE PE#: 76983

RICHARD J. LINDBURG
LICENSE No. 62829
STATE OF FLORIDA
EXPIRES 02-28-25
PROFESSIONAL ENGINEER

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

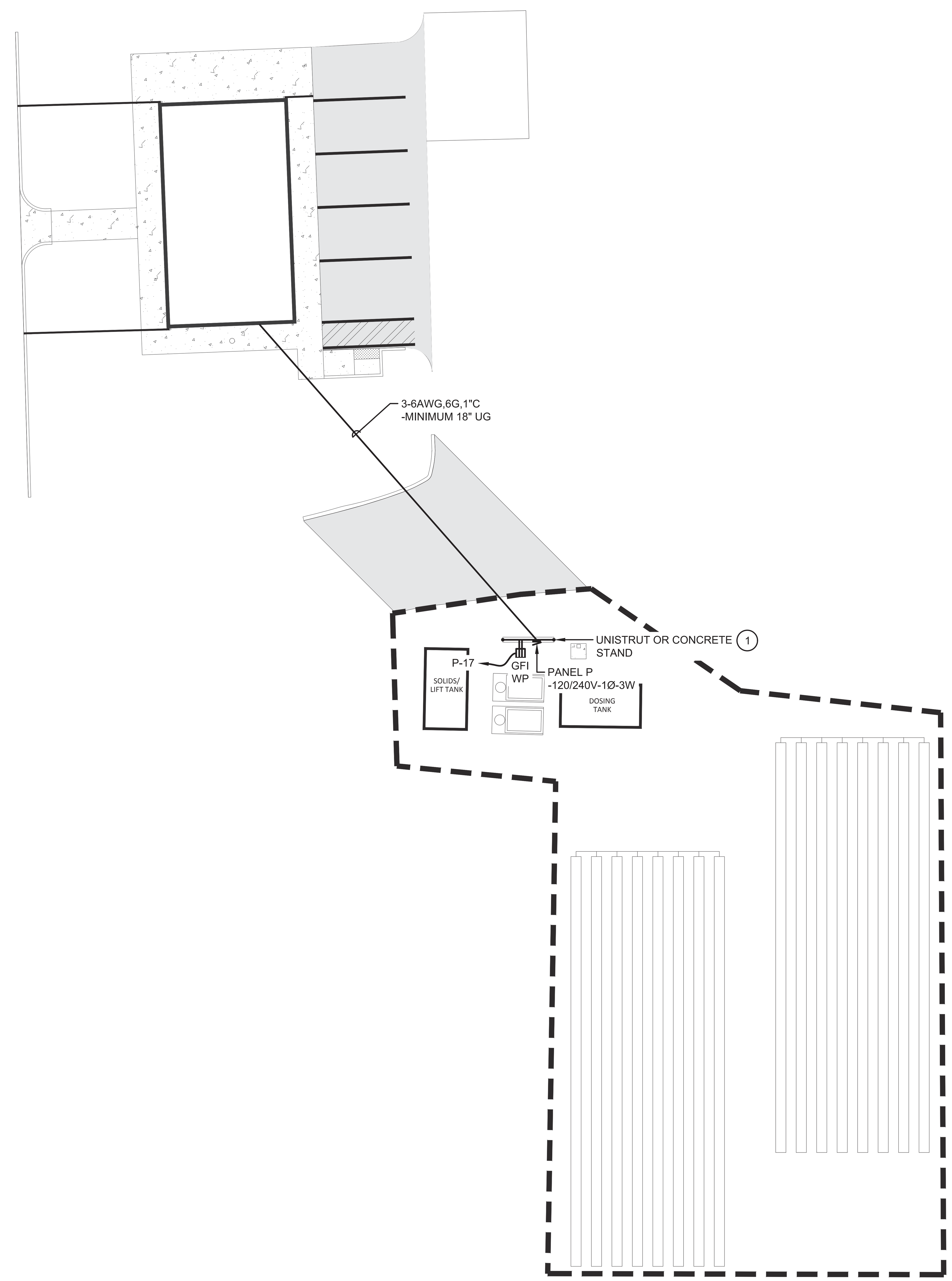
ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE: LEGEND & NOTES - ELECTRICAL

PROJECT TITLE: ICHETUCKNEE SPRINGS STATE PARK REPLACE RESTROOM

SHEET NO. E001

100% CONTRACT DOCUMENTS



GENERAL SHEET NOTES:	
1	THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, ALL OTHER CONTRACT DOCUMENTS, AND SHALL BE RESPONSIBLE FOR THE ELECTRICAL WORK REQUIRED BY THESE DOCUMENTS.
2	OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK. OFFSET OUTLET BOXES TO MINIMIZE SOUND TRANSMISSION BETWEEN ROOMS.
3	COORDINATE THE LOCATION OF LIGHTS, ETC. WITH OTHER TRADES. IN GENERAL, LIGHTS, ETC. SHALL BE MOUNTED IN THE CENTER OF A CEILING TILE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
4	CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT AS REQUIRED TO INSTALL LIGHTING FIXTURES.
3	COORDINATE OUTLET BOX LOCATIONS WITH FURNITURE, CABINETS, AND EQUIPMENT. REFER TO ARCHITECTURAL ELEVATIONS.
4	COORDINATE SWITCH BOX LOCATIONS WITH FURNITURE, CABINETS, DOORS, SIDE LITES, ETC.. IN GENERAL, SWITCHES SHALL BE ADJACENT TO LATCH SIDE OF DOOR. REFER TO ARCHITECTURAL ELEVATIONS.
5	COORDINATE ROUTING OF CONDUITS WITH OTHER TRADES. CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO WALLS, CEILINGS, AND FLOORS. PROVIDE JUNCTION AND/OR PULL BOXES AS REQUIRED BY FIELD CONDITIONS.
6	PROVIDE IDENTIFICATION FOR EQUIPMENT, DEVICES & BRANCH CIRCUIT CONDUCTORS AS CALLED FOR IN THE SPECIFICATIONS.
7	REFER TO THE SYMBOLS LIST AND SPECIFICATIONS FOR MOUNTING HEIGHTS OF DEVICES.
8	REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, EQUIPMENT SCHEDULES AND DETAILS.
9	NEUTRAL CONDUCTORS SHALL NOT BE SHARED.
10	WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF $750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.

SHEET RENOVATION KEY NOTES:	
1	CONTRACTOR SHALL COORDINATE WITH THE CIVIL PLANS AND WASTEWATER SYSTEM DRAWINGS PRIOR TO PURCHASE OR INSTALLATION. ENSURE PROPER DISCONNECTING MEANS ARE PROVIDED FOR EACH MOTOR AND ALL ENCLOSURES SHALL BE NEMA 4X RATED.

1 SITE PLAN - ELECTRICAL

E100 1/16" = 1'-0"

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
1			3		
2			4		

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

DESIGNER : BCP
DRAWN BY: BCP
REVIEWED BY: RJL
ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 61363C

Consultant : TOMAHAWK ENGINEERING & CONSULTING, INC.
1940 Buford Blvd. - Tallahassee, FL 32302
Phone: 850-402-3040, Fax: 850-402-9659
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RICHARD LINDBURG
PE#: 62829
MICHAEL BOYLE
PE#: 76983

RICHARD J. LINDBURG LICENSE No. 62829 STATE OF FLORIDA EXPIRES 02-28-25 PROFESSIONAL ENGINEER

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
SITE PLAN - ELECTRICAL

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

100% CONTRACT DOCUMENTS

SHEET NO.
E100

LIGHTING GENERAL NOTES:	
1	THE ELECTRICAL CONTRACTOR SHALL BECOME FAMILIAR WITH ALL OTHER CONTRACT DOCUMENTS, AND SHALL BE RESPONSIBLE FOR THE ELECTRICAL WORK REQUIRED BY THESE DOCUMENTS.
2	COORDINATE SWITCH BOX LOCATIONS WITH FURNITURE, CABINETS, DOORS, SIDE LITES, ETC.. IN GENERAL, SWITCHES SHALL BE ADJACENT TO LATCH SIDE OF DOOR. REFER TO ARCHITECTURAL ELEVATIONS.
3	COORDINATE ROUTING OF CONDUITS WITH OTHER TRADES. CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO WALLS, CEILINGS, AND FLOORS. PROVIDE JUNCTION AND/OR PULL BOXES AS REQUIRED BY FIELD CONDITIONS.
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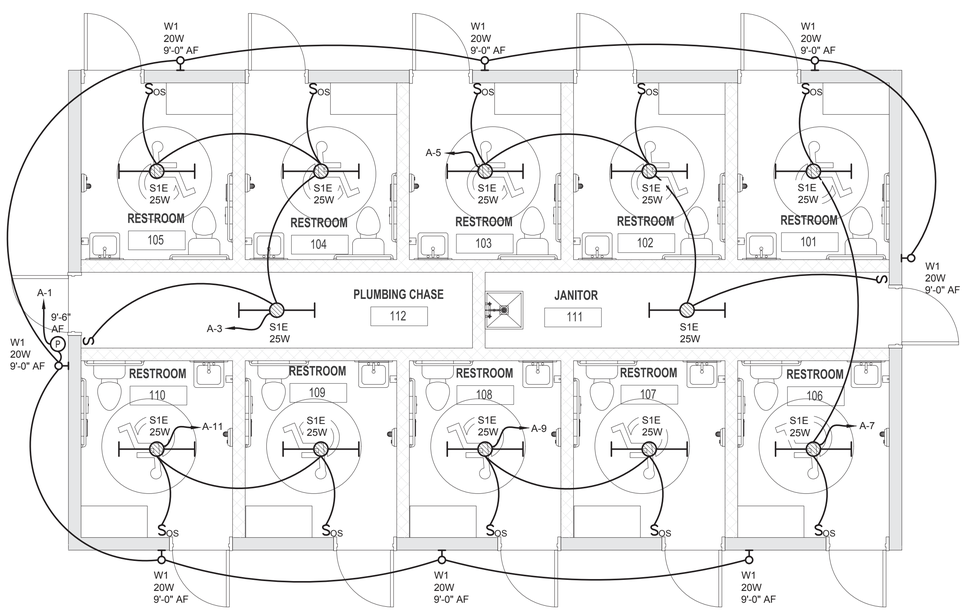
8	CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT AS REQUIRED TO INSTALL LIGHTING FIXTURES.
9	EMERGENCY AND NORMAL POWERED LIGHTING BRANCH CIRCUITS SHALL BE INSTALLED IN SEPARATE RACEWAY SYSTEMS PER NEC 700
10	WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF $750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.



1 FLOOR PLAN - LIGHTING

E101 1/4" = 1'-0"

GENERAL SHEET NOTES:	
1	THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, ALL OTHER CONTRACT DOCUMENTS, AND SHALL BE RESPONSIBLE FOR THE ELECTRICAL WORK REQUIRED BY THESE DOCUMENTS.
2	OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK. OFFSET OUTLET BOXES TO MINIMIZE SOUND TRANSMISSION BETWEEN ROOMS.
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8	REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, EQUIPMENT SCHEDULES AND DETAILS.
9	NEUTRAL CONDUCTORS SHALL NOT BE SHARED.
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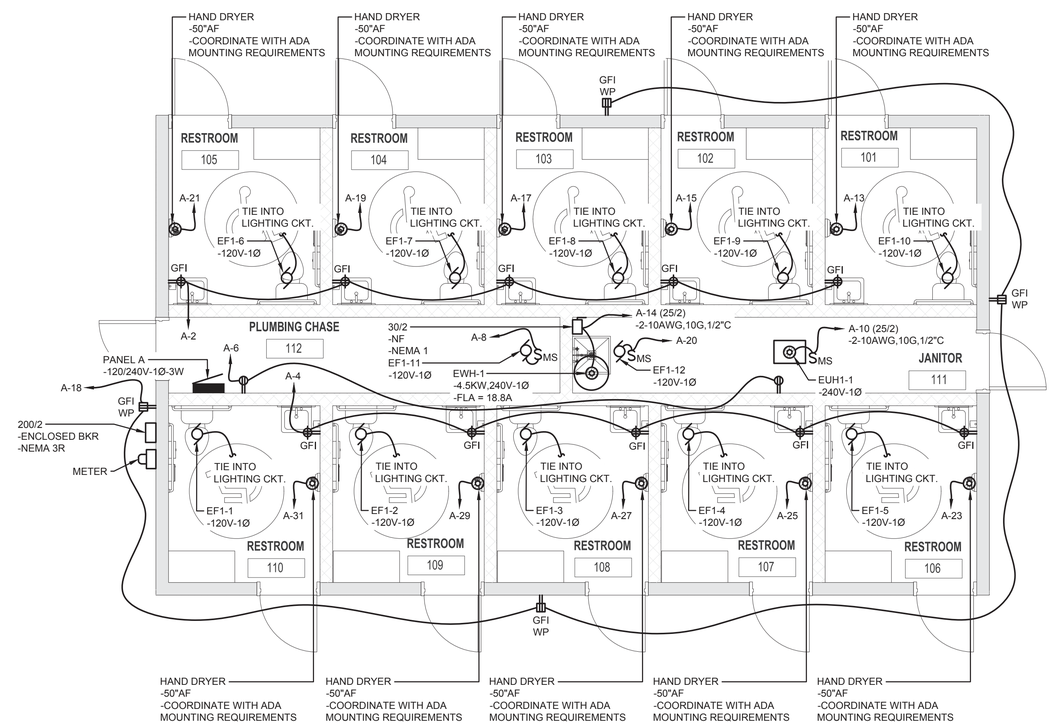

2 FLOOR PLAN - POWER & SYSTEMS

E101 1/4" = 1'-0"

	DATE	SYMBOL	REVISION
		25	
		4	

	DATE	SYMBOL	REVISION
		1	
		2	

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REVIEWED BY: RJL
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1940 Buford Blvd. - Tallahassee, FL 32302
Phone: 850-402-3040, Fax: 850-402-9659
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MICHAEL BOYLE
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RICHARD J. LINDBURG
LICENSE
No. 62829
STATE OF
FLORIDA
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PROFESSIONAL ENGINEER

ISSUE DATE: 28 MARCH 2023
COMP. FILE No.: 18980
STATE PROJECT No.: 61363C

Department of Environmental Protection
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Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

ICHETUCKNEE SPRINGS STATE PARK
12087 SOUTHWEST U.S. 27, FORT WHITE, FL 32038

SHEET TITLE
FLOOR PLANS - ELECTRICAL

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
E101

100% CONTRACT DOCUMENTS

PANEL: A
FED FROM: UTILITY SERVICE E.B.
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 120/240V-1PH-3W
BRANCH: NORMAL
AIC RATING: 10,000A
MAINS: 200A MLO

CKT. NO.	BKR.	DESCRIPTION	LEG A		LEG B		DESCRIPTION	BKR.	CKT. NO.
1	20/1	LTS. EXTERIOR	160	900			REC. RR. 101-105	20/1	2
3	20/1	LTS. INTERIOR/EX. FAN RR 104,105,112			1131	900	REC. RR. 106-110	20/1	4
5	20/1	LTS. INTERIOR/EX. FAN RR 102,103,111	1131	360			REC. JAN. 111,CHASE 112	20/1	6
7	20/1	LTS. INTERIOR/EX. FAN RR 101,106			1106	250	EF1-11 CHASE 112	15/1	8
9	20/1	LTS. INTERIOR/EX. FAN RR 107,108	1106	1500			EUH1-1	25/2	10
11	20/1	LTS. INTERIOR/EX. FAN RR 109,110			1106	1500	-----	---	12
13	*20/1	HAND DRYER RR 101	1100	2250			EWH-1	25/2	14
15	*20/1	HAND DRYER RR 102			1100	2250	-----	---	16
17	*20/1	HAND DRYER RR 103	1100	720			REC. EXTERIOR	20/1	18
19	*20/1	HAND DRYER RR 104			1100	250	EF1-12 JAN. 111	15/1	20
21	*20/1	HAND DRYER RR 105	1100				SPARE	20/1	22
23	*20/1	HAND DRYER RR 106			1100		SPARE	20/1	24
25	*20/1	HAND DRYER RR 107	1100				SPARE	20/1	26
27	*20/1	HAND DRYER RR 108			1100		SPARE	20/1	28
29	*20/1	HAND DRYER RR 109	1100				SPARE	20/1	30
31	*20/1	HAND DRYER RR 110			1100		SPARE	20/1	32
33	20/1	SPARE					SPARE	20/1	34
35	20/1	SPARE					SPARE	20/1	36
37	15/2	SPD		5356			PANEL P	60/2	38
39	---	-----				5176	-----	---	40
			18983		19169				

NOTES:
1. BASIS OF DESIGN IS A SQUARE D NQOD WITH BOLT ON QO BREAKERS.
2. *PROVIDE GFCI TYPE BREAKER.
2. PROVIDE TYPE 1 EXTERNALLY MOUNTED SPD.

	CONNECTED LOADS VA	CONNECTED LOADS AMPS	DEMAND LOADS VA	DEMAND LOADS AMPS
LIGHTING	5740	24	5740	24
RECEPTACLES	3060	13	3060	13
MOTORS	22852	95	22852	95
MISCELLANEOUS	6500	27	6500	27
TOTAL (AVERAGE PER PHASE)	38152	159	38152	159

MINIMUM OVERCURRENT PROTECTION (125% OF TOTAL DEMAND LOAD) = 199

PANEL: P
FED FROM: PANEL A
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTAGE: 120/240V-1PH-3W
BRANCH: NORMAL
AIC RATING: 10,000A
MAINS: 100A MLO

CKT. NO.	BKR.	DESCRIPTION	LEG A		LEG B		DESCRIPTION	BKR.	CKT. NO.
1	15/2	LIFT STATION PUMP #1	876	336			TREATMENT PLANT BLOWER #1	15/2	2
3	---	-----			876	336	-----	---	4
5	15/2	LIFT STATION PUMP #2	876	336			TREATMENT PLANT BLOWER #2	15/2	6
7	---	-----			876	336	-----	---	8
9	15/2	LIFT STATION CONTROLS & ALARM	500	876			DRAINFIELD DOSING PUMP #1	15/2	10
11	---	-----			500	876	-----	---	12
13	15/2	TREATMENT PLANT CONTROLS & ALARM	500	876			DRAINFIELD DOSING PUMP #2	15/2	14
15	---	-----			500	876	-----	---	16
17	20/1	REC. EXTERIOR	180				SPACE		18
19		SPACE					SPACE		20
21		SPACE					SPACE		22
23		SPACE					SPACE		24
25		SPACE					SPACE		26
27		SPACE					SPACE		28
29		SPACE					SPACE		30
			5356		5176				

NOTES:
1. BASIS OF DESIGN IS A SQUARE D NQOD WITH BOLT ON QO BREAKERS.

	CONNECTED LOADS VA	CONNECTED LOADS AMPS	DEMAND LOADS VA	DEMAND LOADS AMPS
LIGHTING	0	0	0	0
RECEPTACLES	180	1	180	1
MOTORS	8352	35	8352	35
MISCELLANEOUS	2000	8	2000	8
TOTAL (AVERAGE PER PHASE)	10532	44	10532	44

MINIMUM OVERCURRENT PROTECTION (125% OF TOTAL DEMAND LOAD) = 55

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SYMBOL	REVISION	DATE
01		
02		

SYMBOL	REVISION	DATE

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SHEET TITLE
PANEL SCHEDULES - ELECTRICAL

PROJECT TITLE
ICHETUCKNEE SPRINGS STATE PARK
REPLACE RESTROOM

SHEET NO.
E701

100% CONTRACT DOCUMENTS