CONSTRUCTION PLANS FOR:

HOLMES EMERGENCY MEDICAL SERVICES BLDG. BONIFAY, FLORIDA

PROJECT NUMBER - SP2025-03-21

BOARD OF COUNTY COMMISSIONERS

WILMER STAFFORD DISTRICT 1
BRANDON NEWSOME DISTRICT 2
MITCH JOHNSON DISTRICT 3
EARL STAFFORD DISTRICT 4
CLINT ERICKSON DISTRICT 5
DAVID CORRING

DAVID CORBIN COUNTY ADMINISTRATOR

UTILITY PROVIDERS:	
TELEPHONE/ FIBER OPTIC	CENTURYLINK 411 MARY ESTER CUR OFF NW FORT WALTON BEACH, FL 32548 (850) 599-1444
POWER	FLORIDA POWER AND LIGHT 1195 JACKSON AVE. CHIPLEY, FL 32428 800-225-5797
TV/CABLE	MEDIACOM 1613 COUNTY ROAD 191C GULF BREEZE, FL 32563 (850) 913-6499

MAY 2025

PREPARED FOR:

HOLMES COUNTY BOARD OF COMMISSIONERS

HOLMES COUNTY PROJECT LOCATION PROJECT LOCATIO		VICINITY MAP
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	DRAWING INDEX								
Sheet Number	Sheet Title								
C1	COVER SHEET								
C2	GENERAL NOTES AND LEGEND								
C3	BOUNDARY & TOPOGRAPHIC SURVEY								
C4	STORMWATER POLLUTION PREVENTION PLAN								
C5	DEMOLITION PLAN								
C6	SITE AND UTILITY PLAN								
C7	GRADING AND DRAINAGE PLAN								
C8	STANDARD DETAILS								
A1.1	FLOOR PLAN AND FINISHING SCHEDULE								
A1.2	FOUNDATION PLANS								
A1.3	FOUNDATION DESIGN PLAN								
A1.4	ELEVATIONS								
FG1.0	FUEL GAS PLAN								
M1.0	MECHANICAL NOTES								
M2.0	MECHANICAL PLAN								
P1.0	PLUMBING NOTES								
P2.0	PLUMBING PLAN								
P3.0	PLUMBING SCHEDULE								
P4.0	PLUMBING RISER								
E0.1	ELECTRICAL LEGEND & NOTES								
E0.2	ELECTRICAL RISERS & SCHEDULE								
E0.3	ELECTRICAL DETAILS								
E1.0	SITE PLAN - ELECTRICAL								
E1.1	FLOOR PLANS - ELECTRICAL								

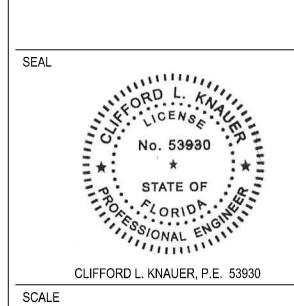




REVISIONS

NO. DESCRIPTION DATE

OLMES EMERGENCY MEDICAL SERVICES BLDG
HOLMES COUNTY
BOARD OF COMMISSIONERS
HOLMES COUNTY, FLORIDA



DRAWN BY KDS

APPROVED BY CLK

CHECKED BY CLK

DATE MAY 2025

COVER SHEET

PROJECT NO. SP2025-03-21

C1

SHEET NO.

5/28/2025 1/24/35 PM C:_PROJECTS\HOLMES EMS BUILDING_CIVIL3DFOLDER_PRODUCTION\HOLMES EMS BLDG_COVEF

- THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING PRIVATE AND PUBLIC UTILITIES. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. EXISTING UTILITIES ARE APPROXIMATE AND BASED ON PREVIOUS DESIGN, SURVEY. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY AND ALL UTILITIES AS REQUIRED BY THE PLANS, AND UTILITY COMPANIES TO CONSTRUCT THE PROPOSED IMPROVEMENTS. UNLESS OTHERWISE STATED, CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COST OF SAID RELOCATION. IF NECESSARY CONTRACTOR SHALL ALSO NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL (800-432-4770) AT LEAST 2 FULL DAYS PRIOR TO EXCAVATION OR DEMOLITION. NOTE NOT ALL UTILITIES ARE UNDER THIS PROGRAM SO CONTRACTOR SHALL ENSURE TO THE BEST EXTENT CONTACT WITH ACTUAL COMPANIES. CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER WHEN ANY INFRASTRUCTURE IS BEING PUT IN PLACE FOR ANY CONFLICT RESOLUTIONS. DEPTHS OF UTILITIES ON THESE PLANS ARE APPROXIMATE AND NOT ALL UTILITIES ARE LOCATED.
- CONTRACTOR WILL COORDINATE WITH GEOTECHNICAL ENGINEER TO ENSURE THAT TESTING IS DONE FOR ALL SOILS, ASPHALT, AND BAS THAT IS ON THE PROJECT.
- 4. ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE DEFUNIAK SPRINGS AND OTHER PERMITTING AGENCIES SHALL BE COMPLIED WITH IN EVERY DETAIL.
- ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY OR ENGINEER OR DESIGNEE. CONTRACTOR SHALL ALSO REFER TO FDOT STANDARD PLANS FOR ROADWAYS THAT NEED TO BE REPAIRED DUE TO UTILITY CONSTRUCTION.
- 6. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY FDOT SPECIFICATION 104, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, LATEST EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE.
- 7. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL ALSO MAINTAIN EROSION CONTROL DEVICES DURING CONSTRUCTION TO PREVENT SEDIMENT FROM LEAVING THE PROJECT SITE AND ENTERING THE EXISTING STORMWATER SYSTEM. THE EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL (SWPPP) PLANS ARE THE MINIMUM REQUIRED AND SHALL BE MAINTAINED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED BY THE INSPECTOR TO CONTROL SEDIMENTS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STORMWATER RUNOFF SHALL BE CONTROLLED DURING THE COURSE OF CONSTRUCTION. IMPACT TO OFFSITE IS NOT ANTICIPATED. ALSO, THE CONTRACTOR SHALL REFER TO THE "FLORIDA STORMWATER EROSION AND SEDIMENT CONTROL INSPECTORS MANUAL" FOR ADDITIONAL EROSION CONTROL MEASURE AND ALTERNATIVES. ALTERNATIVES BY THE CONTRACTOR SHALL BE APPROVED BY THE ENGINEER AND INSPECTOR. CONTRACTOR SHALL SEEK APPROVAL FROM COUNTY AND THE ENGINEER OF RECORD FOR ANY SUBSTITUTIONS TO THE EROSION CONTROL MEASURES.
- 8. ALL DISTURBED AREAS ON PROJECT SITE SHALL BE SODDED, UNLESS OTHERWISE NOTED ON THE PLANS. ALL SODDING SHALL BE PINNED ON SLOPES GREATER THAN 3:1 TO PREVENT EROSION. DISTURBED AREAS OUTSIDE THE SILT FENCED PERIMETER SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADE IS ACHIEVED. ALL DISTURBED AREAS TO BE LEFT IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH QUICK GROW SEED AND MULCH. THE CONTRACTOR SHALL WARRANTY FOR A MINIMUM OF 1 YEAR AFTER ACCEPTANCE (OR LONGER AS SPECIFIED ELSEWHERE).
- 9. ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. OWNER OR ITS DESIGNEE WILL ASSIST THE CONTRACTOR WITH REQUIRED PERMITS.
- 10. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR
- 11. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY OKALOOSA COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF ANY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND
- 12. EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
- 13. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
- 14. EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
- 15. ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, "DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS". SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE WALTON COUNTY TECHNICAL SPECIFICATIONS. CONTRACTOR MAY SUBSTITUTE FDOT ITEMS FOR THE INFRASTRUCTURE CONSTRUCTION; ANY SUBSTITUTIONS SHALL HAVE A MINIMUM 50 YEAR LIFESPAN. CONTRACTOR WILL BE REQUIRED TO PROVIDE DESIGNS OR VERIFICATION OF SUBSTITUTE. ALL SIGNS REFERRED TO IN THE PLANS SHALL BE IN ACCORDANCE WITH MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) LATEST EDITION. ALL STRUCTURES THAT ARE SUBSTITUTED SHALL HAVE OPENINGS SIMILAR TO THOSE NOTED IN THE FDOT INDEX OR THOSE SPECIFIED ON THE PLANS.
- 16. EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE.
- 17. CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND ARMY CORP. OF ENGINEERS REQUIREMENTS IF REQUIRED.
- 18. GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.
- 19. ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE PRESERVED UNLESS OTHERWISE NOTED IN PLANS.
- 20. ALL COMPACTED FILL SHALL BE PLACED IN FOUR INCH (4") LIFTS FOR HAND POWERED TAMPERS AND TWELVE INCH (12") LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.
- 21. MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.
- 22. PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPE LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE
- 23. TEMPORARY BENCHMARKS HAVE BEEN ESTABLISHED ON THIS PROPERTY WHICH SHOULD BE USED BY THE CONTRACTOR DURING CONSTRUCTION. DESCRIPTIONS OF THE BENCHMARKS CAN BE FOUND IN THESE PLANS.
- 24. ALL UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES SHALL BE INSTALLED PRIOR TO CURB AND BASE CONSTRUCTION.
- 25. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED TESTING WITH THE SOILS ENGINEER. PAYMENT FOR TESTING WILL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 26. THE CONTRACTOR SHALL ADJUST ALL VALVE BOX AND MANHOLE CASTINGS TO MATCH FINAL SURFACE ELEVATIONS.
- 27. AS-BUILTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF THE AS-BUILT SURVEY INDICATES AN AREA OF INCOMPLETE OR UNACCEPTABLE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THE NECESSARY REPAIRS, AS DIRECTED BY THE ENGINEER, OR OWNER, CONTRACTOR WILL BE REQUIRED TO PROVIDE UPDATED AS-BUILTS TO DEMONSTRATE COMPLIANCE WITH THE PLANS AND

PERMITS. ALL FINAL AS-BUILT SURVEYS ARE REQUIRED TO BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL SURVEYOR.

<u>UTILITY NOTES:</u>

- THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS/HER FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.
- 2. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES.

KNOWN UTILITIES OWNERS INCLUDE

CITY OF DEFUNIAK SPRINGS 1350 BALDWIN AVE DEFUNIAK SPRINGS, FL. PH: (850) 892-8534

ELECTRIC - GULF POWER 655 US HWY 331 N. DEFUNIAK SPRINGS, FL. PH: (850) 892-2111

NATURAL GAS
CITY OF DEFUNIAK SPRINGS 1350 BALDWIN AVE DEFUNIAK SPRINGS, FL. PH: (850) 892-8534

<u>CABLE – COX CABLE</u> 320 RACETRACK ROAD NW FORT WALTON BEACH, FL. PH: (850) 862-4142

<u>TELEPHONE – CENTURYLINK</u> 411 B MARY ESTHER CUT OFF FORT WALTON BEACH, FL. PH: (850) 244-1150

ORLANDO, FL. 32809 PH: (800) 432–4770

SUNSHINE STATE ONE-CALL, 605 WEST GARDEN STREET

- 3. CENTURYLINK WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND
- 4. ALL CABLE DAMAGE MUST BE REPORTED TO THE CENTURYLINK REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.
- 5. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND
- 6. UTILITIES ARE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF THE UTILITY OWNERS.

- 1. THE ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM (1988).
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK AND TAKE ALL NECESSARY STEPS TO PROVIDE FOR UTILITY
- 3. REFERENCE BENCHMARKS EXISTS ON THIS PROPERTY AS SHOWN HEREON.
- 4. CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY REGARDING ANY APPARENT CONFLICTS IN THE PROPOSED IMPROVEMENTS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION.

STORMWATER SYSTEM MAINTENANCE:

- 1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
- 2.. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
- 3. ALL EXPOSED CORNERS AND EDGES OF CONCRETE ARE TO BE CHAMFERED 3/4".
- 4. CONSTRUCTION OF THE ROADWAY AND DRAINAGE SYSTEMS SHALL CONFORM TO THE MOST RECENT FDOT ROAD AND BRIDGE MANUAL AND SUPPLEMENTS.

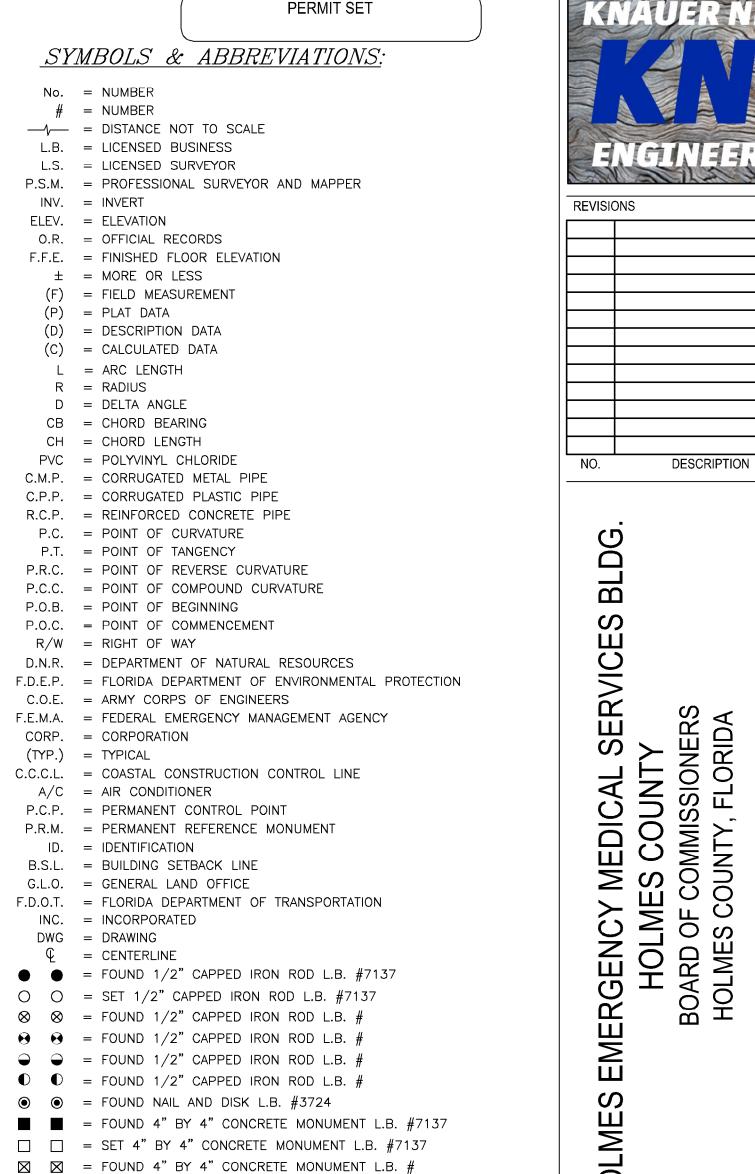
EROSION CONTROL NOTES:

- EROSION PROTECTION: SOIL EROSION SEDIMENTATION MUST BE CONTROLLED AND RETAINED ON SITE DURING CONSTRUCTION. THEREFORE, EROSION PROTECTION, SUCH AS STAKED BALED HAY AND SILT FENCE BARRIERS, MUST BE INSTALLED PRIOR TO START OF
- 2. SILT FENCE BARRIER SHALL BE INSTALLED AS SHOWN ON PLANS, AND IN ALL AREAS SUBJECT TO SOIL EROSION SEDIMENTATION.
- SOD ALL SLOPES 3:1 OR STEEPER.
- 4. CONTRACTOR SHALL RETAIN ALL SOIL EROSION SEDIMENTATION ON-SITE.
- 5. ALL DISTURBED AREAS NOT SPECIFICALLY SHOWN TO BE SODDED SHALL BE GRASSED AND MULCHED. THE GRASS SEED SHALL BE 20 PARTS BERMUDA AND 80 PARTS PENSACOLA BAHIA. APPLICATION SHALL BE 100 POUNDS PER ACRE. IF CONSTRUCTION OCCURS DURING THE MONTHS OF OCTOBER THROUGH JANUARY, SEEDING SHALL BE 50 PARTS WINTER RYE AND 50 PARTS PENSACOLA BAHIA AT 100 POUNDS PER ACRE. SEEDED AREAS SHALL BE FERTILIZED WITH 8-8-8 NPK DRY FERTILIZER AT THE RATE OF 800 POUNDS PER
- 6. FUNCTIONAL EROSION AND SILTATION CONTROLS SHALL BE INSTALLED AS NEEDED THROUGHOUT THE CLEARED AREAS AND AS SHOWN ON THE CONSTRUCTION PLANS IMMEDIATELY SUBSEQUENT TO ESTABLISHED ROUGH GRADE.
- 7. ALL EROSION CONTROL STRUCTURES SHALL BE IN PLACE BEFORE DEMOLITION BEGINS.
- 8. CONSTRUCT FILTER FENCES, HAY BALES AND TREE BARRICADES.
- 9. STRIP THE TOP SOIL AND STOCK PILE FOR USE IN LANDSCAPED AREAS.
- 10. INSTALL UTILITIES AND DRAINAGE PIPES PROTECTING INLETS WITH STAKED HAY BALES OR FILTER FENCE TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEMS. CONSTRUCT STORMWATER MANAGEMENT CONTROL STRUCTURES. (FILTRATION, RATE CONTROL, ETC.)
- 11. CONSTRUCT DRAINAGE, PARKING AND OTHER IMPROVEMENTS AS SHOWN ON THE PLANS; MAINTAIN SEDIMENTATION, EROSION AND TREE
- 12. FINAL GRADE THE SITE AND LANDSCAPE AS PER PLANS AND SPECIFICATIONS, STABILIZING ALL DISTURBED AREAS.
- 13. NO HEAVY EQUIPMENT IN NATURAL AREAS, ALL PLANTING TO BE DONE BY HAND.
- 14. ALL DISTURBED AREAS SHALL BE SATISFACTORILY STABLILIZED. UNLESS OTHERWISE SPECIFIED, SOD SHALL BE PROVIDED IN THE FOLLOWING AREAS:
- a. ALL SLOPES 3:1 AND STEEPER. b. ENTIRE AREA BETWEEN SIDEWALKS AND BACK OF CURB.
- c. INTERIOR SLOPES OF PONDS AND SWALES, AND IN A TWO-FOOT WIDE STRIP ALONG THE TOP OF BANK OF ALL PONDS AND SWALES.
- d. IN A TWO-FEET WIDE STRIP ALONG ALL BUILDINGS, STRUCTURES, ROADS WHERE NO SIDEWALKS RUN PARALLEL, AND OUTER EDGES OF ALL SIDEWALKS. OTHER AREAS MAY BE SEEDED AND MULCH, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL MAINTAIN GRASSED UNTIL PLANTS HAVE TAKEN ROOT AND THE AREA IS SATISFACTORILY STABILIZED.

CONSTRUCTION SEQUENCE:

- 1. CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION CONFERENCE WITH THE DEFUNIAK SPRINGS, UTILITY COMPANIES, ENGINEER AND ALL OTHER PARTIES REQUIRED FOR COMMENCEMENT OF PROJECT. THIS MEETING SHALL TAKE PLACE PRIOR TO COMMENCEMENT OF ANY PROJECT RELATED ACTIVITIES. AT THIS TIME PRIOR TO ANY CONSTRUCTION THE PERMIT MUST BE POSTED IN A CONSTRUCTION BOX ON SITE.
- 2. THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY TELEPHONE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. CONSTRUCTION SHALL NOT COMMENCE UNTIL INFORMATION (NAME AND PHONE NUMBER) OF CERTIFIED STORMWATER EROSION AND SEDIMENT CONTROL INSPECTOR HAS BEEN PROVIDED TO THE COUNTY AT THE PRE-CONSTRUCTION MEETING.
- 4. ALL SEDIMENT IS TO BE CAPTURED ON THE PROJECT SITE. ANY SEDIMENT ESCAPING THE PROJECT SITE WILL BE REQUIRED TO BE REMOVED AND RESTORED INCLUDING THE TRACKING OF SOIL ON STREETS.
- 5. CONSTRUCT UTILITIES AND OTHER IMPROVEMENTS IN ACCORDANCE WITH THE APPROVED DRAWINGS.
- 6. DAILY SWEEPING WILL BE REQUIRED ON THE PROPERTY AND IMMEDIATELY AFTER STORM EVENTS TO PREVENT TRACKING OF SEDIMENT
- REMOVE ALL SEDIMENT/EROSION CONTROL DEVICES. REMOVE AND DISTRIBUTE ANY REMAINING SEDIMENT ONCE FULLY STABILIZED. ASSURE that distributed sediment will not be redistributed. Any excess dirt shall be disposed of in a manner off site that will NOT CAUSE ANY EROSION OR SEDIMENT ISSUES. CONTRACTOR WILL ALSO INSPECT STRUCTURES FOR SEDIMENT. ANY SEDIMENT SHALL BE FLUSHED FROM THE CONVEYANCE SYSTEM.
- 8. CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
- 9. EACH CONTRACTOR SHALL CARRY ON HIS WORK AND ADHERE TO THE PROGRESS SCHEDULE DURING ALL DISPUTES OR DISAGREEMENTS WITH THE OWNER. NO WORK SHALL BE DELAYED OR POSTPONED PENDING RESOLUTION OF ANY DISPUTES OR DISAGREEMENTS.
- 10. TWO WEEKS PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL HAVE A WALK THROUGH WITH THE ENGINEER, AND OWNER AND A PUNCH LIST SHALL BE PREPARED. ONCE ALL PUNCH LIST ITEMS ARE ADDRESSED TO SATISFY THE ENVIRONMENTAL PERMIT, THE CONTRACTOR SHALL ALSO SCHEDULE A WALK THROUGH WITH THE OWNER, ARCHITECT, ENGINEER AND CITY OF DEFUNIAK SPRINGS UPON COMPLETION.
- 11. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH MINIMUM OF SIX (6) COPIES OF A SIGNED AND SEALED AS-BUILT SURVEY TO VERIFY THE INSTALLATION OF ALL INFRASTRUCTURE, STORMWATER CONVEYANCES, AND LANDSCAPE IMPROVEMENTS ACCORDING TO RFC PLANS.

LEGEND DENOTES WETLANDS DENOTES EXISTING ASPHALT DENOTES PROPOSED ASPHALT DENOTES DIRT ROADWAY/DRIVEWAY DENOTES GRAVEL ROADWAY/DRIVEWAY DENOTES LANDSCAPE BUFFER DENOTES WETLAND BUFFER DENOTES CONCRETE DENOTES MATERIAL TO BE DEMOLISHED AND REMOVED DENOTES PROPERTY LINE DENOTES ADJACENT PROPERTY LINE — — DENOTES SETBACK LINE DENOTES WETLAND LINE DENOTES WETLAND BUFFER DENOTES EXISTING STORM DRAIN TO BE REMOVED (REFER TO PLANS) DENOTES EXISTING LINEAR OBJECT TO BE REMOVED (REFER TO PLANS) DENOTES SILT FENCING DENOTES TURBIDITY BARRIER DENOTES HAY BALES DENOTES WATER FLOW ON PRE AND POST DEVELOPMENT PLANS DENOTES EXISTING OBJECT TO BE REMOVED (REFER TO PLANS) DENOTES EXISTING OBJECT TO BE RELOCATED (REFER TO PLANS) DENOTES SECTION LINE DENOTES SECTION/VIEW CALL OUT DENOTES ELEVATION VIEW



★ = FOUND 4" BY 4" CONCRETE MONUMENT L.B. #

■ FOUND 4" BY 4" CONCRETE MONUMENT L.B. #

▼ = FOUND 4" BY 4" CONCRETE MONUMENT L.B. #

= HANDICAPPED PARKING SPACE

→ = TRAFFIC SIGN

(STOP) = STOP SIGN

= BILLBOARD SIGN

₩ = WATER VALVE

 \blacksquare = WATER METER

The street of th

= SANITARY SEWER VALVE

① = TELEPHONE MANHOLE

© = ELECTRIC MANHOLE

= GAS VALVE

S = SANITARY SEWER MANHOLE

→ = IRRIGATION CONTROL VALVE

= TEMPORARY BENCHMARK

= CONCRETE BOLLARD / PILING

 \rightarrow = GUY ANCHOR

 \varnothing = UTILITY POLE

 \mathbf{E} = ELECTRIC BOX

☐ = TELEPHONE BOX

■ TELEVISION BOX

——— BC ——— = BURIED CABLE LINE

——— BE ——— = BURIED ELECTRIC LINE

——— BT ———— BURIED TELEPHONE LINE

= SPOT ELEVATION AT "X"

------ ss -----= BURIED SANITARY SEWER GRAVITY LINE

------ FM -----= BURIED SANITARY SEWER FORCE MAIN

-----BFO----= BURIED FIBER OPTIC CABLE LINE

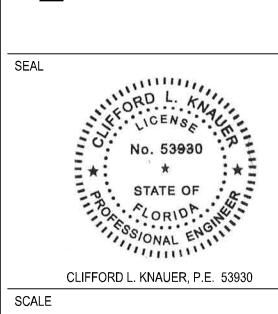
---10'---- = CONTOUR ELEVATION AT 1' INTERVALS

 \emptyset = FLAG POLE

 \bigcirc = MISC

 \bigcirc = MISC

 \triangle \triangle = FOUND TRIANGULAR CONCRETE MONUMENT (S.J.P.C.)



KDS DRAWN BY APPROVED BY CLK CHECKED BY DATE MAY 2025

TITLE **GENERAL NOTES**

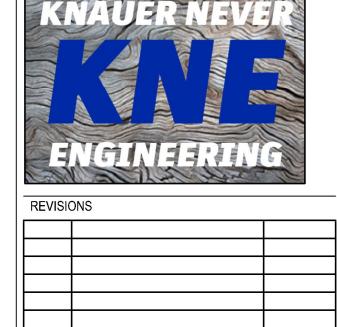
PROJECT NO.

SP2025-03-21

-----BTV----= BURIED TELEVISION LINE

------ RU ------= BURIED RE-USE WATER MAIN OVERHEAD UTILITY LINE





PERMIT SET

HOLMES EMERGENCY MEDICAL SERVICES BLDG.

HOLMES COUNTY

BOARD OF COMMISSIONERS

HOLMES COUNTY, FLORIDA

SEAL

ORD L.

ICENS

No. 53930

STATE OF

ORIO

SOLO

CLIFFORD L. KNAUER, P.E. 53930

SCALE

DRAWN BY KDS
APPROVED BY CLK
CHECKED BY CLK
DATE MAY 2025

BOUNDARY & TOPOGRAPHIC SURVEY

SP2025-03-21

PROJECT NO.

C3

- SITE DESCRIPTION:
- CONSTRUCTION ACTIVITY: CONSTRUCTION OF EMS BUILDING AND ASSOCIATED UTILITIES AND STORMWATER FACILITIES.
- B. MAJOR SOIL DISTURBING ACTIVITIES: INSTALLATION OF NEW BUILDING AND PARKING, UTILITIES AND STORMWATER FACILITIES.
- C. TOTAL PROJECT AREA: 0.50 ACRES
- TOTAL SOIL AREA TO BE DISTURBED: 21,000 SF / 0.50 ACRES
- D. RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION: DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: N/A ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL: N/A
- C. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS: N/A

NAME OF RECEIVING WATERS: N/A

WETLAND AREA: NO DISTURBANCE TO WETLANDS

CONTROLS:

NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. HAY BALES AND SILT FENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS. HAY BALES SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS.

2A. EROSION AND SEDIMENT CONTROLS: (1) STABILIZATION PRACTICES:

- **TEMPORARY SODDING**
- TEMPORARY GRASSING X PERMANENT PLANTING, SODDING, OR SEEDING
- TEMPORARY MULCHING ARTIFICIAL COVERING
- X BUFFER ZONES
- X PRESERVATION OF NATURAL RESOURCES
- STRUCTURAL PRACTICES:
- SAND BAGGING X SILT FENCES
- X HAY BALES X BERMS
- DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES PIPE SLOPE DRAINS
- **FLUMES** ROCK BEDDING AT CONSTRUCTION EXIT
- DITCH LINER

TIMBER BEDDING AT CONSTRUCTION EXIT

- SEDIMENT TRAPS SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP (ROCK BAGS) X STONE OUTLET STRUCTURES CURBS AND GUTTERS STORM SEWERS
- X VELOCITY CONTROL DEVICES TURBIDITY BARRIER
- 2C. DESCRIPTION OF STORMWATER MANAGEMENT: X RIP RAP

2D. OTHER CONTROLS:

- (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
- (2) OFFSITE VEHICLE TRACKING:
- HAUL ROADS DAMPENED FOR DUST CONTROL X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- X EXCESS DIRT ON ROAD REMOVED DAILY
- X STABILIZED CONSTRUCTION ENTRANCE
- (3) SANITARY WASTE: N/A
- (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
- (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): NO NON-STORMWATER DISCHARGES ARE ANTICIPATED.

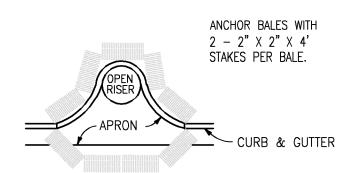
2E. APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: XXX

MAINTENANCE:

ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.

INSPECTION:

- ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.25' OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.
- A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
- B. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
- C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
- THE CONTRATOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE CITY AT 850-233-5100 PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.



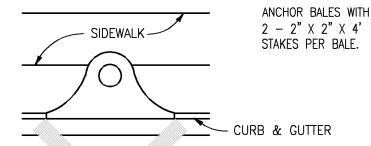
PARTIAL INLET

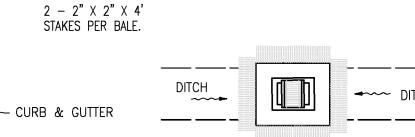
NOTES:

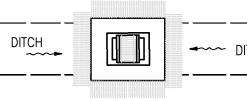
1. DIG TRENCH 6" DEEP.

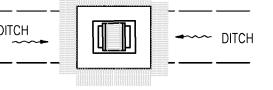
2. LAY IN FABRIC TO BOTTOM OF TRENCH.

3. BACK TRENCH, COVERING FABRIC.





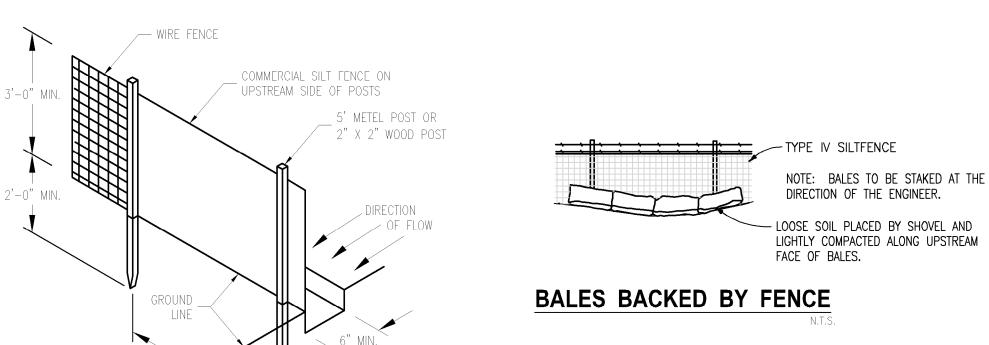






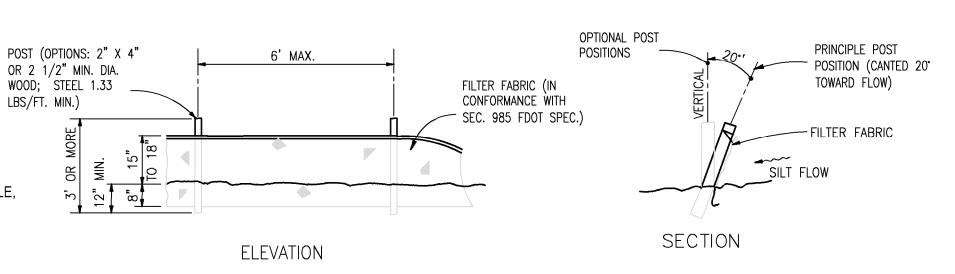
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

COMPLETED INLET



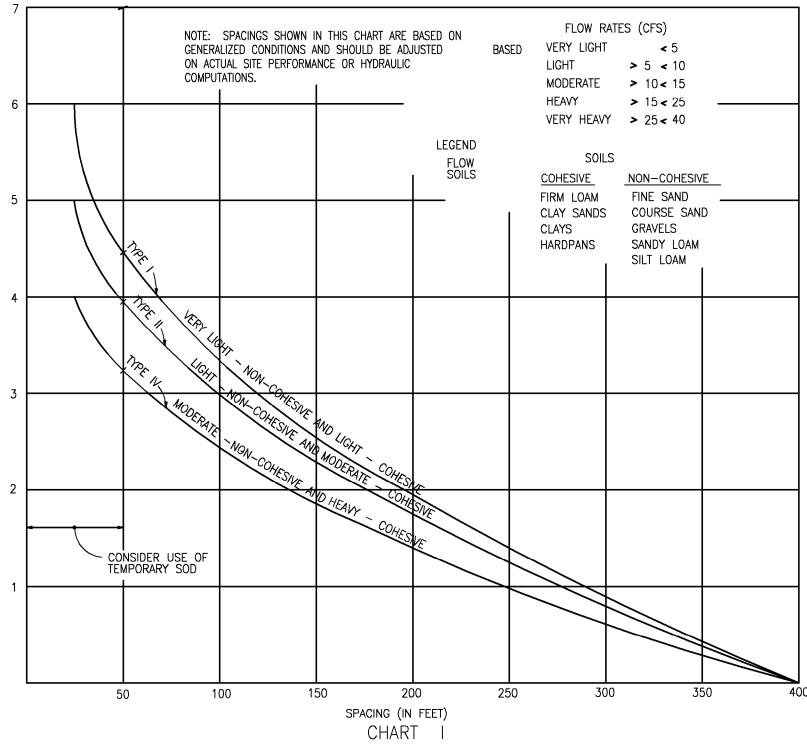
SILT FENCE

SPACING .



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

TYPE IV SILT FENCE



BARRIERS FOR FILL SLOPES

ANCHOR BALES WITH

2 - 2" X 2" X 4'

STAKES PER BALE.

LOOSE SOIL PLACED BY SHOVEL AND LIGHTLY

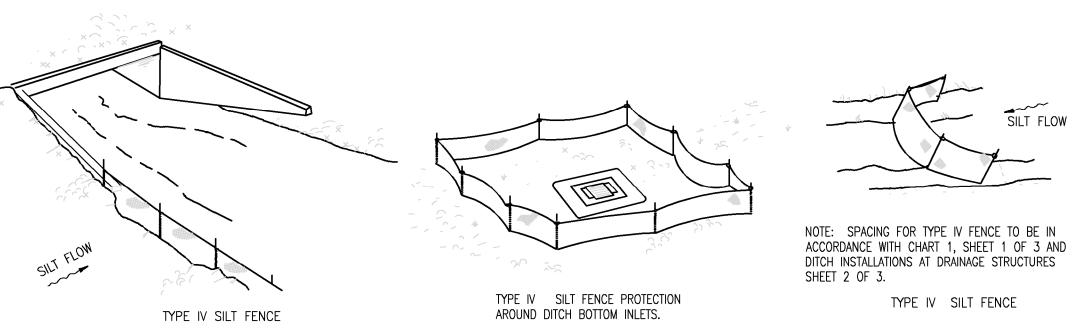
- COMPACTED ALONG THE UPSTREAM EDGE OF BALES.

ELEVATION

NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

TO BE USED AT SELECTED SITES WHERE THE

RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE IV SILT FENCES



DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS



PERMIT SET

[• •]

ELEVATION

NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

TO BE USED AT SELECTED SITES WHERE THE

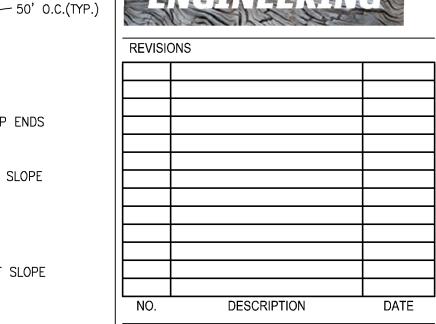
OVERLAP ENDS

→ FILL SLOPE

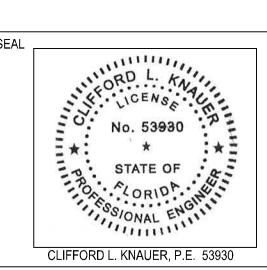
AS REQUIRED -

ANCHOR BALES WITH

2 - 2" X 2" X 4' STAKES PER BALE.



SERVICES 'Y ERGENCY MEDIC, HOLMES COUI BOARD OF COMMISS HOLMES COUNTY, F Ш́ HOLM



SCALE

DRAWN BY APPROVED BY CLK CHECKED B

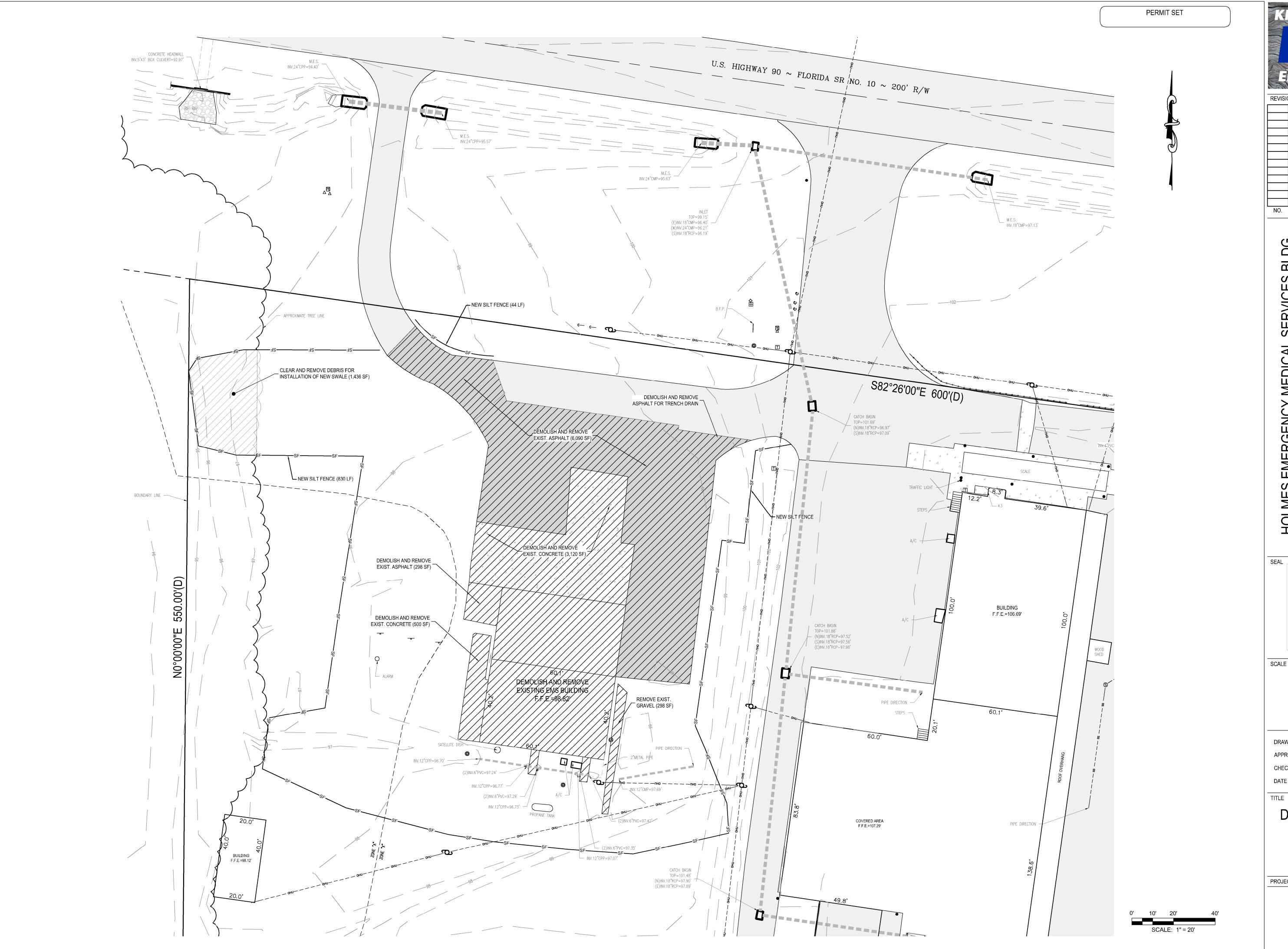
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.

SP2025-03-21

SHEET NO.

DATE





DESCRIPTION

IES EMERGENCY MEDICAL SERVICES BLDG
HOLMES COUNTY
BOARD OF COMMISSIONERS
HOLMES COUNTY, FLORIDA

HOLM SEAL CLIFFORD L. KNAUER, P.E. 53930

SCALE

DRAWN BY APPROVED BY CHECKED BY DATE

DEMOLITION PLAN

PROJECT NO. SP2025-03-21





DESCRIPTION

IES EMERGENCY MEDICAL SERVICES BLDG
HOLMES COUNTY
BOARD OF COMMISSIONERS
HOLMES COUNTY, FLORIDA

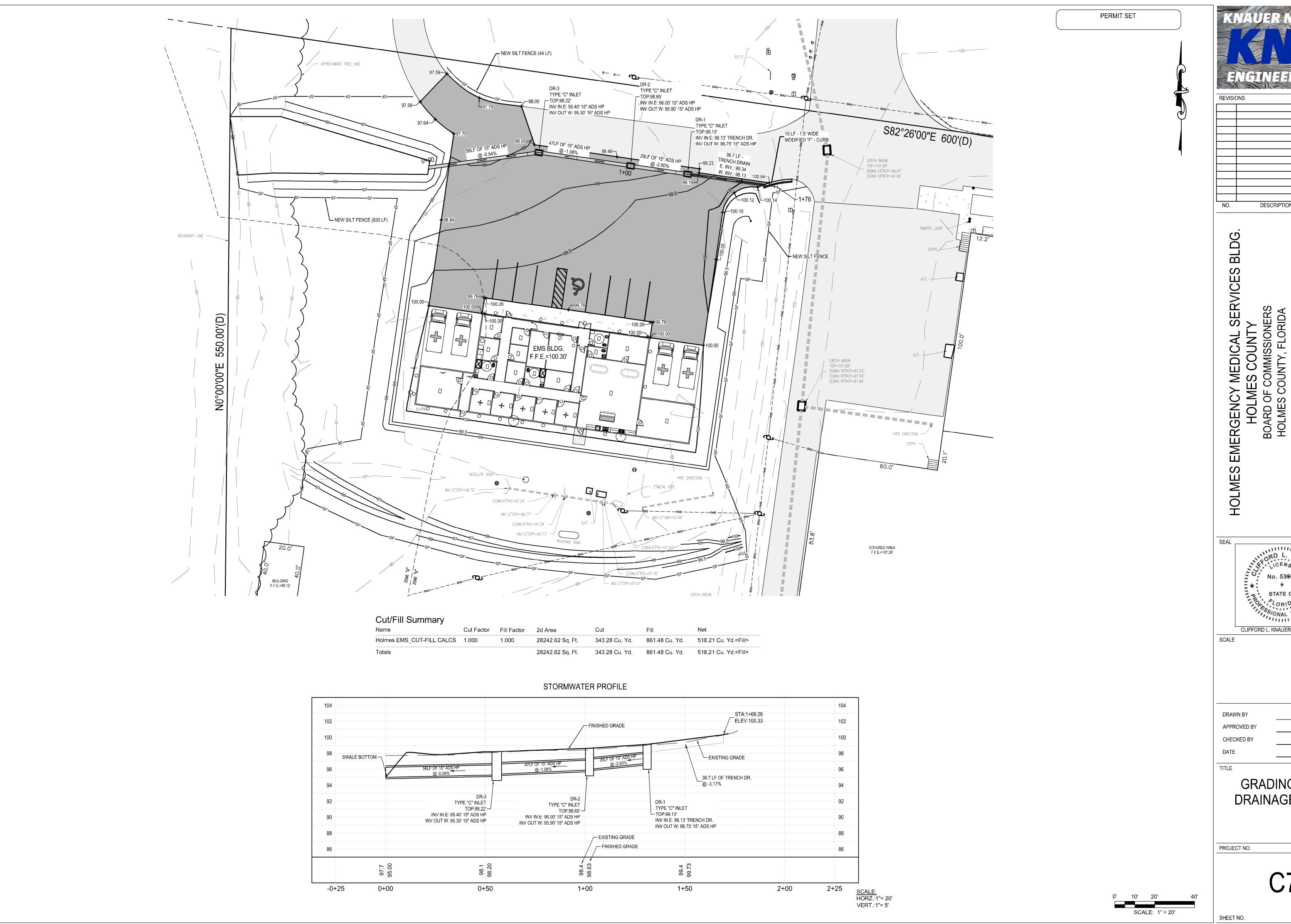
CLIFFORD L. KNAUER, P.E. 53930

DRAWN BY CHECKED BY

SITE AND UTILITY PLAN

PROJECT NO.

SP2025-03-21



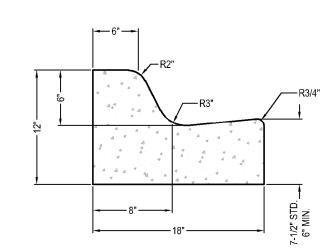
DESCRIPTION

CLIFFORD L. KNAUER, P.E. 53930

GRADING AND

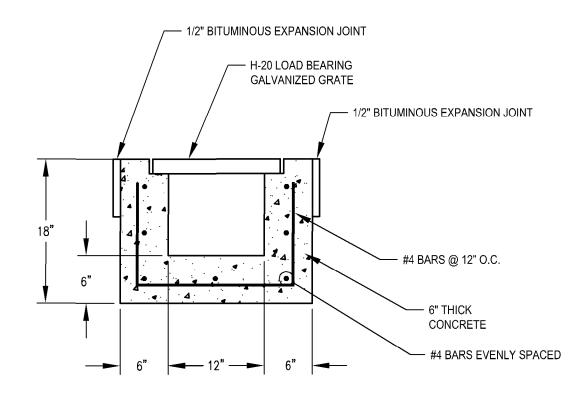
DRAINAGE PLAN

SP2025-03-21

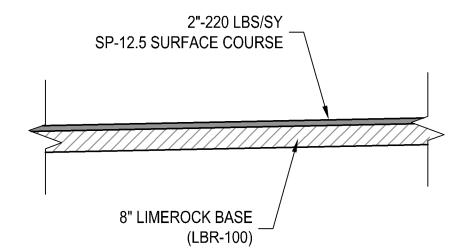


CURB AND GUTTER MODIFIED

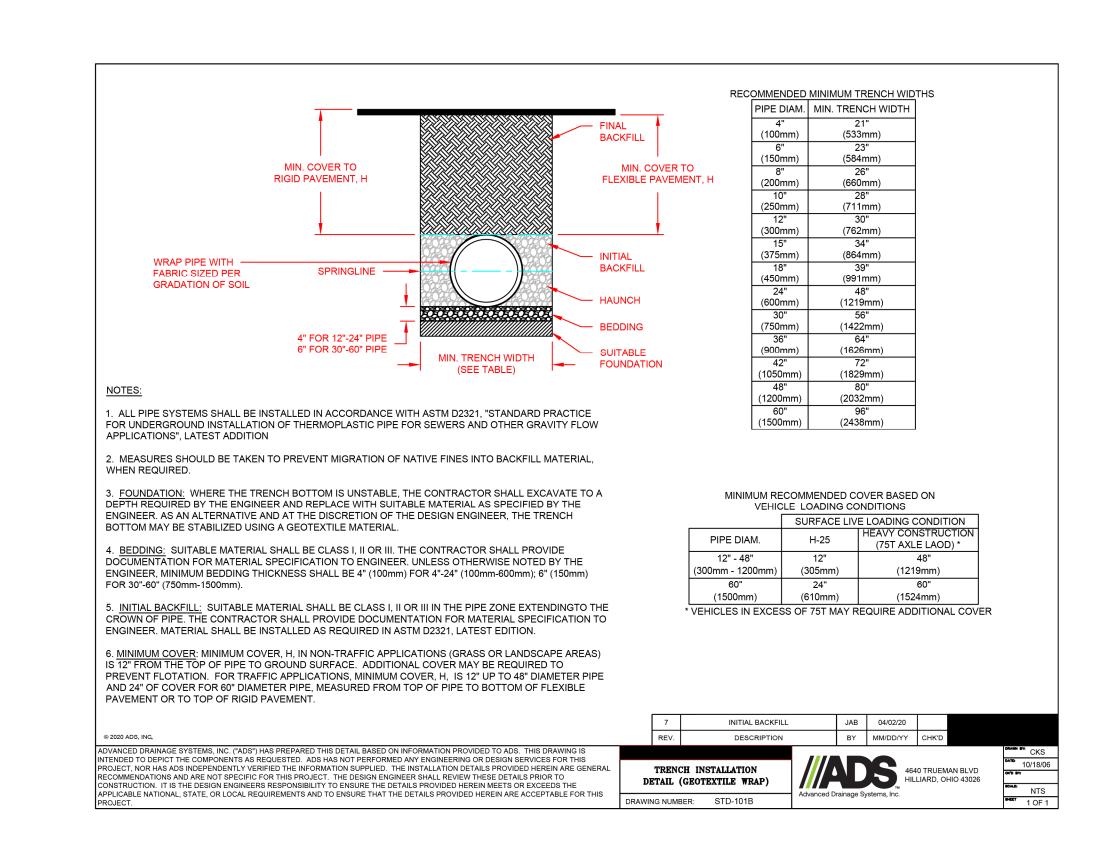
TYPE "F" DETAIL

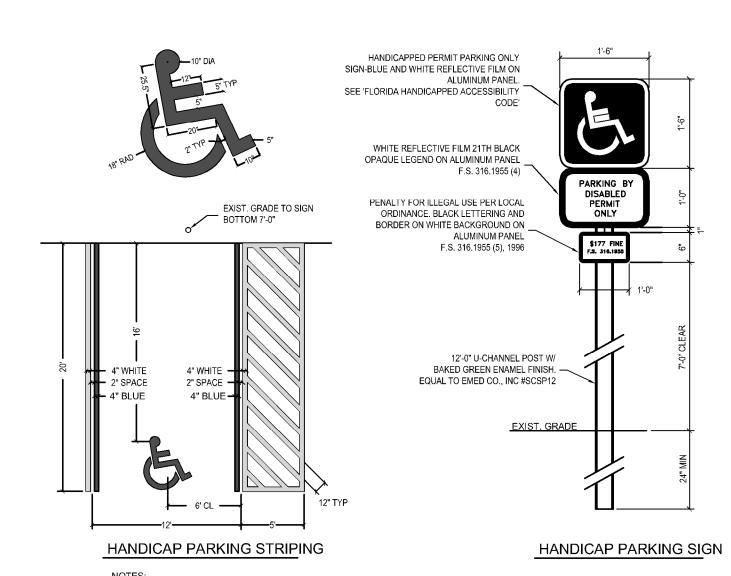


TRENCH DRAIN
SCALE: N.T.S.



PAVEMENT DETAIL SCALE: N.T.S.





* COLOR CONTRAST
 CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK
 CHARACTERS ON A LIGHT BACKGROUND.

2. EACH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE-GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY OR THE CAPTION "PARKING BY DISABLED PERMIT ONLY," OR BEARING BOTH SUCH SYMBOL AND CAPTION. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. ALL HANDICAPPED PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.

DETAIL HANDICAP PARKING DETAILSSCALE: N.T.S.

KNAUER NEVER
ENGINEERING

REVISIONS

NO. DESCRIPTION DATE

HOLMES EMERGENCY MEDICAL SERVICES BLDG
HOLMES COUNTY
BOARD OF COMMISSIONERS
HOLMES COUNTY, FLORIDA

SEAL

ORD L.

No. 53930

STATE OF

ORION

CLIFFORD L. KNAUER, P.E. 53930

SCALE

DRAWN BY KDS

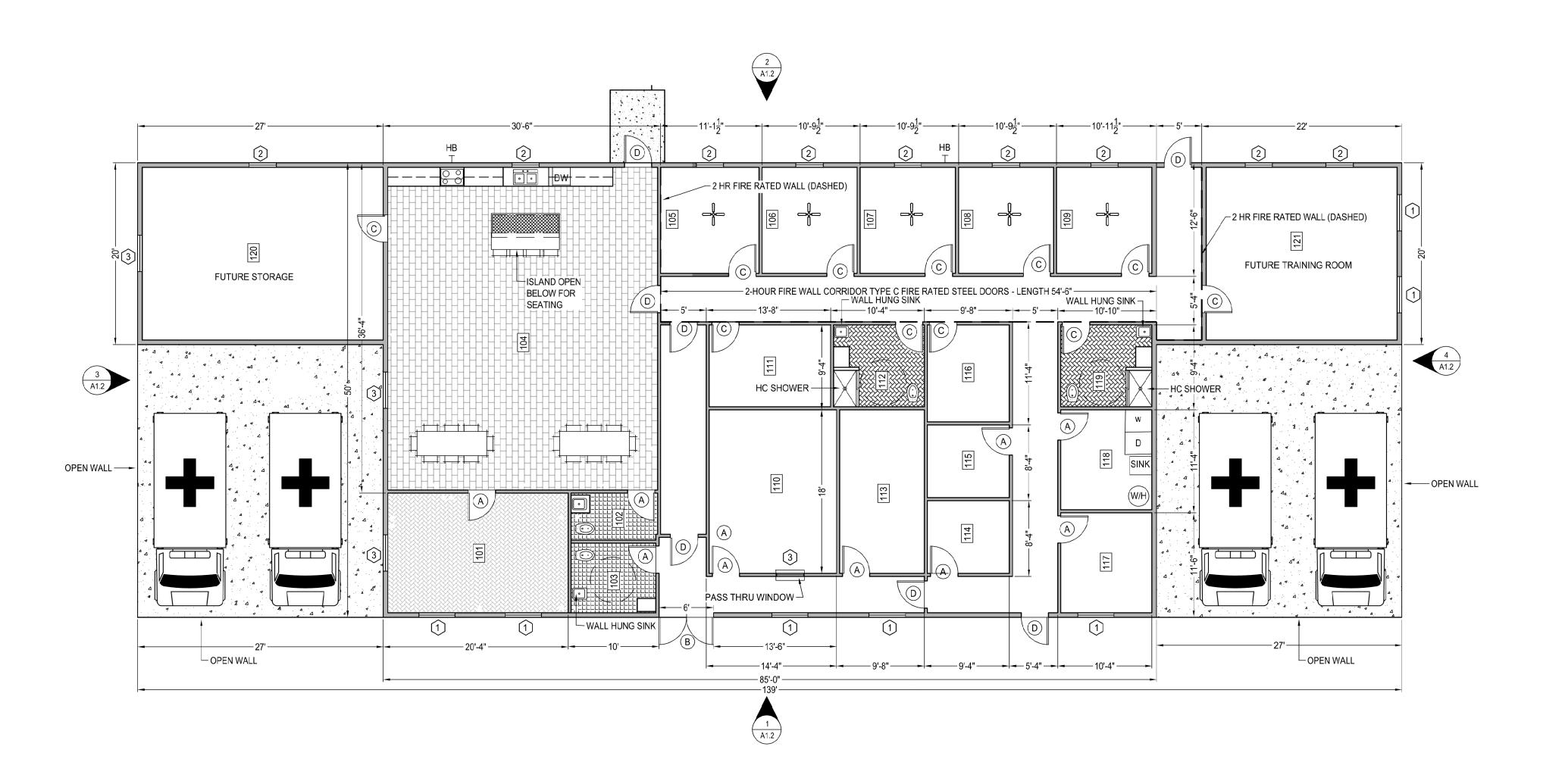
APPROVED BY CLK
CHECKED BY CLK
DATE MAY 2025

TITLE

STANDARD DETAILS

PROJECT NO. SP2025-03-21

C A



BUILDING	G FINISH SCHEDULE	FLOOR COVER	WALLS	SIZE	NOTES			
101	LOUNGE AND BREAK ROOM	LVP	9' CEILING	N/A				
102	DAYROOM RESTROOM	CERAMIC TILE	9' CEILING	8"X8"	SUBWAY TILES 48" ABOVE FLOOR			
103	PUBLIC RESTROOM	CERAMIC TILE	9' CEILING	8"X8"	SUBWAY TILES 48" ABOVE FLOOR			
104	OPEN CONCEPT KITCHEN/DAYROOM	LVP	9' CEILING	7" X 48"	WOOD GRAIN PATTERN / SUBMIT			
105	EMS BEDROOM - 1	LVP	8' CEILING	7" X 48"	WOOD GRAIN PATTERN / SUBMIT			
106	EMS BEDROOM - 2	LVP	8' CEILING	7" X 48"	WOOD GRAIN PATTERN / SUBMIT			
107	EMS BEDROOM - 3	LVP	8' CEILING	7" X 48"	WOOD GRAIN PATTERN / SUBMIT			
108	EMS BEDROOM - 4	LVP	8' CEILING	7" X 48"	WOOD GRAIN PATTERN / SUBMIT			
109	EMS BEDROOM - 5	LVP	8' CEILING	7" X 48"	WOOD GRAIN PATTERN / SUBMIT			
110	ADMINISTRATIVE ASSISTANT	CERAMIC TILE	CERAMIC TILE	12"x24"	PASS THROUGH WINDOW / SUBMIT			
111	PRIMARY STATION SUPPLY (STORAGE)	CERAMIC TILE	CERAMIC TILE	12"X12"				
112	SHARED RESTROOM - 1 (H/C)	CERAMIC TILE	CERAMIC TILE	8"X8"	SUBWAY TILES 6' ABOVE FLOOR			
113	DIRECTORS OFFICE	LVP	9' CEILING	7" X 48"				
114	SERVER / COMPUER ROOM	SEALED CONC	9' CEILING	N/A				
115	SPARE OFFICE	LVP	9' CEILING	7"X48"				
116	STATION SUPPLY ROOM (CREW SUPPLY)	SEALED CONC	9' CEILING	N/A				
117	UTILITY ROOM - ELECTRICAL	SEALED CONC		N/A				
118	UTILITY ROOM - HVAC / HOT WATER	SEALED CONC		N/A				
119	SHARED RESTROOM -2 (H/C)		CERAMIC TILE	8"X8"	SUBWAY TILES 6' ABOVE FLOOR			
120	FUTURE STORAGE ROOM	SEALED CONC			NOT INCLUDED IN BLDG CONTRACT			
121	FUTURE CONFERENCE ROOM	LVP	9' CEILING		NOT INCLUDED IN BLDG CONTRACT			
HALLWAYS CERAMIC TILE N/A 12"X24"								

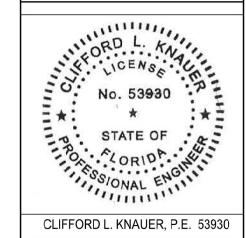
NOTE: CABINETS IN KITCHEN SHALL INCLUDE OVERHEAD AND UNDER COUNTER CABINETS WITH SOLID WOOD FACES AND SHALL
BE PRIMED AND PAINTED TO COLOR SELECTED BY OWNER. HINGES SHALL BE STAINLESS STEEL CONCEALED AND HANDLES ON
CABINETS WILL BE SELECTED BY OWNER IN SUBMITTAL PROCESS. CONTRACTOR WILL PROVIDE 4 UNDER COUNTER AND 6 OVER COUNTER
CABINETS TOTAL. ALL BASEBOARD SHALL BE COMMERCIAL GRADE 4" RUBBER BASE

	WINDOW SCHEDULE
(1) (2) (3)	4' x 6' WHITE VINYL SINGLE HUNG 3' x 6' WHITE VINYL SINGLE HUNG 3' x 3' WHITE VINYL SINGLE PANE ROOMS 105-109 REQ. KICK OUT WINDOWS
	DOOR SCHEDULE
(A) (B) (C) (D)	3°X 6°SOLID CORE PAINT GRADE INT. DOUBLE 3°X 7°ALUMINUM / GLASS 3°X 6°STEEL 90 MIN. FIRE RATED DOOR 3 X 6 STEEL 90 MIN. FIRE RATED DOOR WITH PANIC BARS TIED TO FIRE ALARM

REFER TO SPECIFICATIONS FOR WINDOWS AND DOOR DETAILS REQUIRED ON PROJECT



KNAUER NEVER ENGINEERING, P
21 W. WILLOW MIST ROAD
INLET BEACH, FL 32461
PHONE: (850) 974-8815
cliff@knauernevereng.com



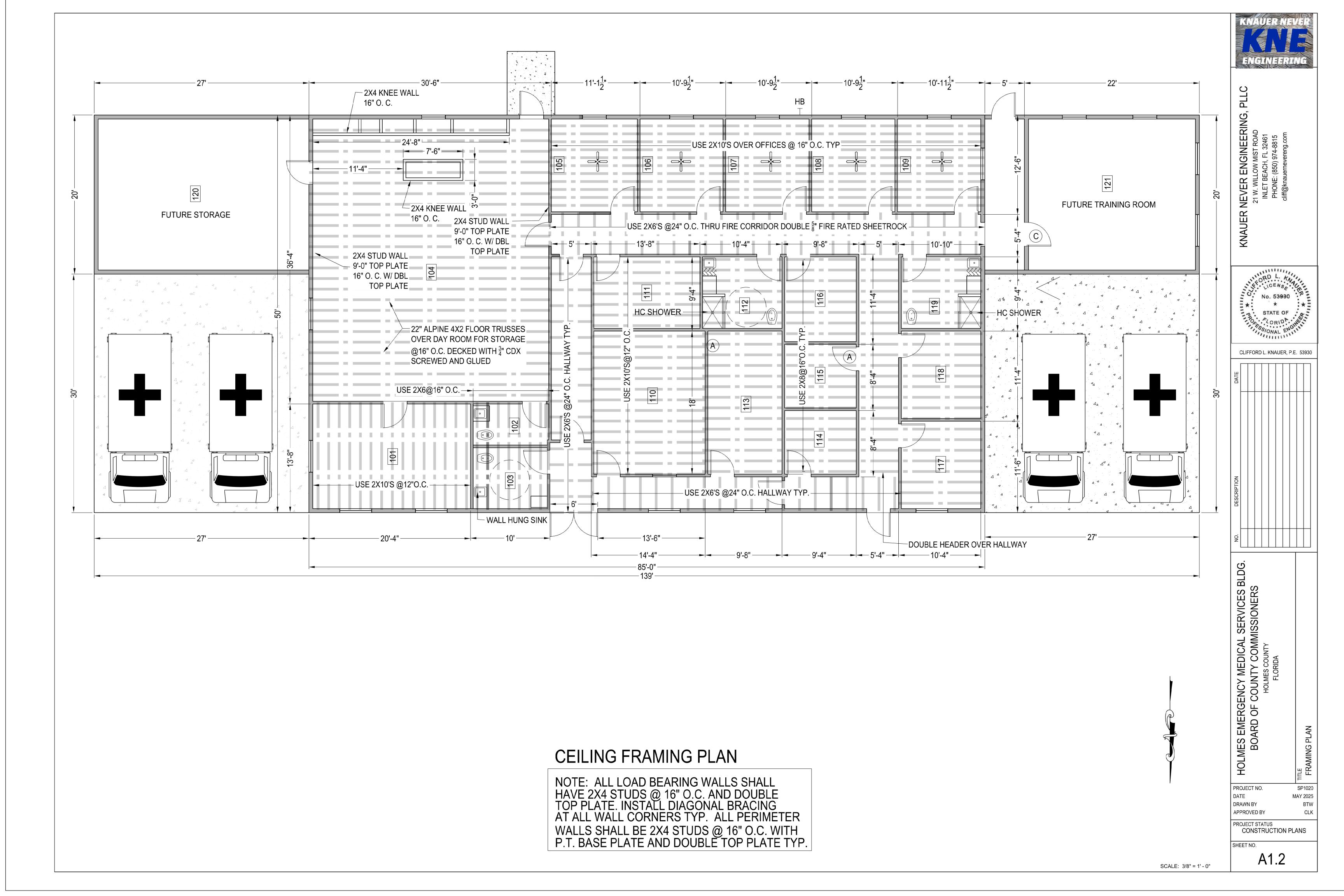
MES EMERGENCY MEDICAL SERVICES BLDG.
BOARD OF COUNTY COMMISSIONERS
HOLMES COUNTY
FLORIDA

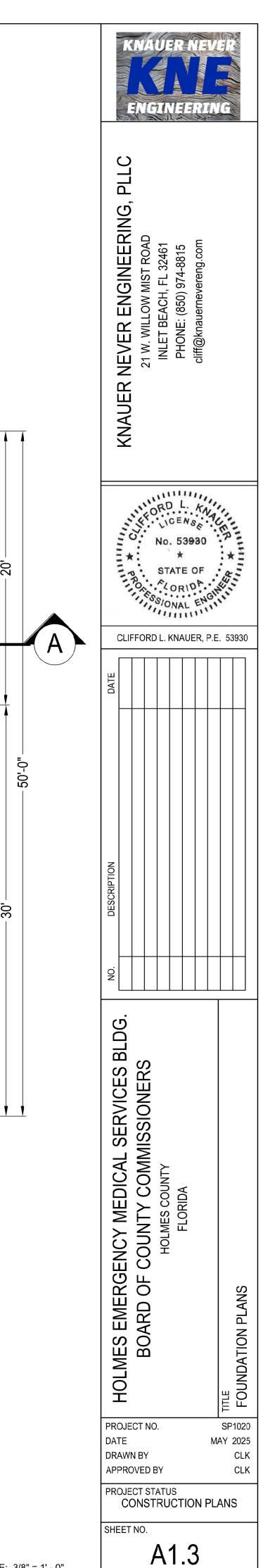
PROJECT NO. DATE DRAWN BY APPROVED BY

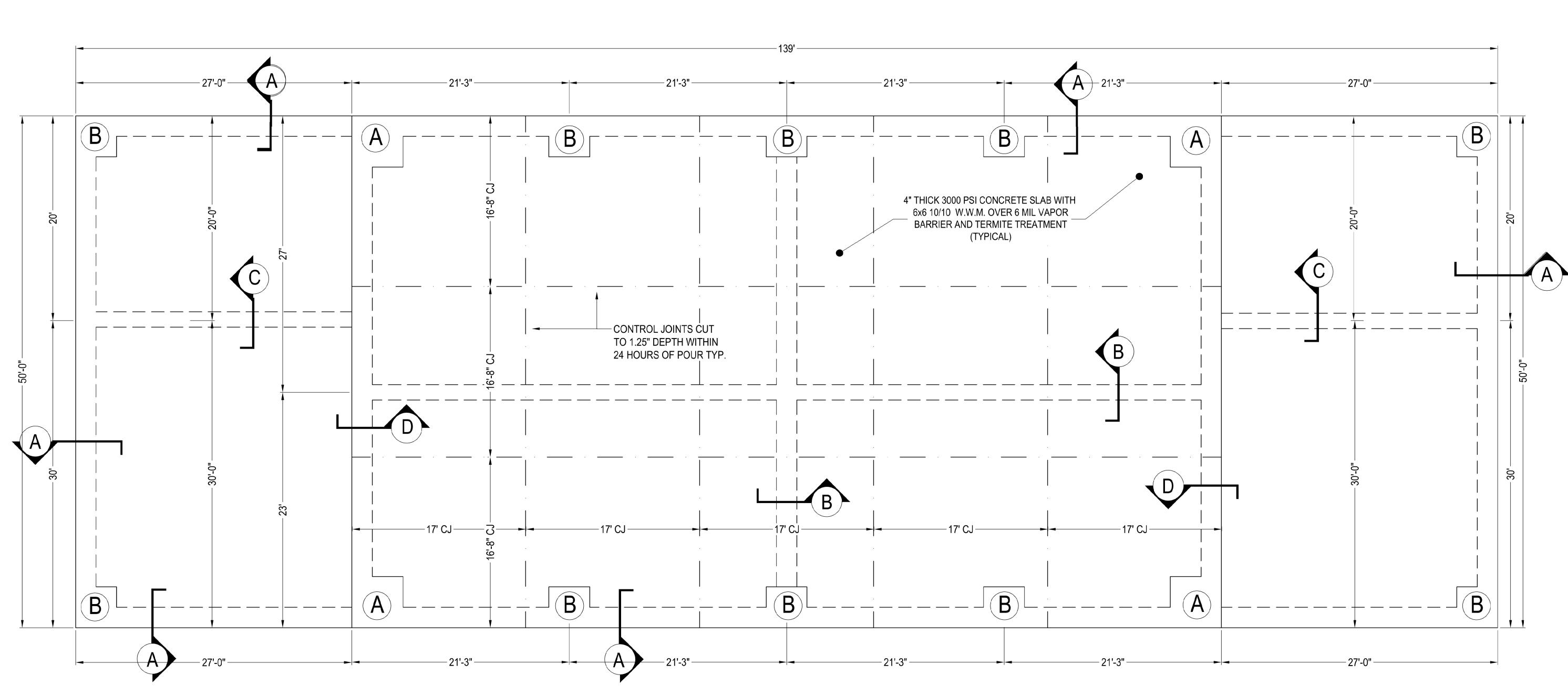
PROJECT STATUS
CONSTRUCTION PLANS

SP1020 MAY 2025









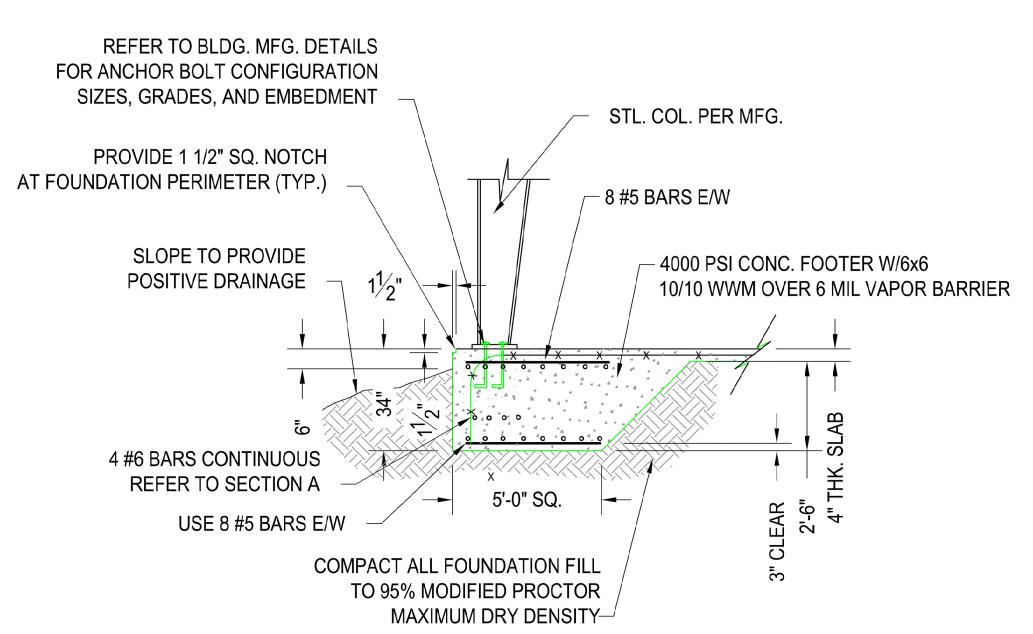
A COLUMN FOUNDATION - 5' X 5' X 30" REFER TO DETAILS

B COLUMN FOUNDATION - 4' X 4' X 30" REFER TO DETAILS

FOUNDATION PLAN BASED ON LOADING REACTIONS PROVIDED BY ALL METAL BUILDING SYSTEMS PLANS DATED 4-21-25

FOUNDATION DESIGN

SCALE: 3/8"-1'-0"



COLUMN FOUNDATION A

-STEEL COLUMN PER MFG.

PROVIDE 1 ½" SQ. NOTCH

DRAINAGE

CONTINUOUS FOOTING

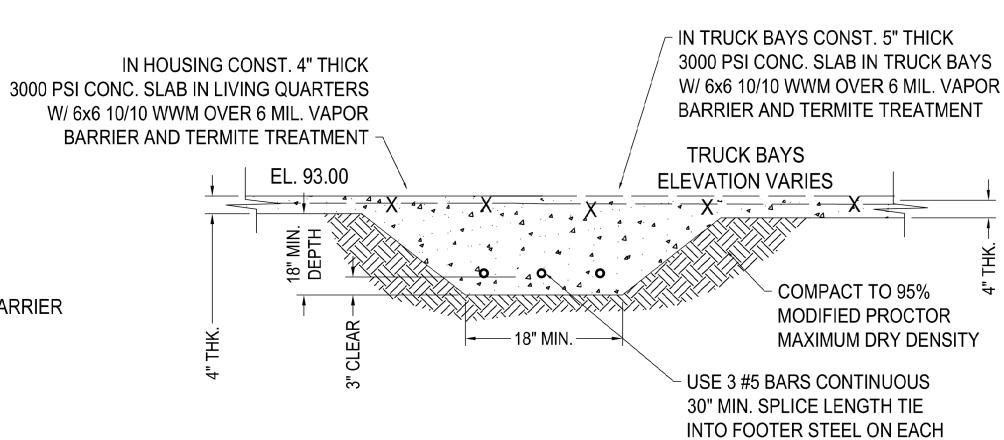
USE 4 EA. #6 BARS CONTINUOUS

W/ #5 TRANSVERSE BARS 18" O.C.

FINISHED GRADE

SLOPE TO POSITIVE

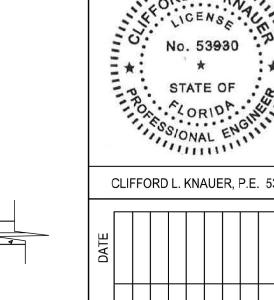
REFER TO BLDG. MFG. DETAILS FOR ANCHOR BOLT CONFIGURATION SIZES, GRADES, AND EMBEDMENT STL. COL. PER MFG. PROVIDE 1 1/2" SQ. NOTCH AT FOUNDATION PERIMETER (TYP.) - 8 #5 BARS E/W SLOPE TO PROVIDE - 4000 PSI CONC. FOOTER W/6x6 POSITIVE DRAINAGE 10/10 WWM OVER 6 MIL VAPOR BARRIER 4 #6 BARS CONTINUOUS REFER TO SECTION 'D' 6" CLEAR USE 6 #5 BARS E/W COMPACT TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY

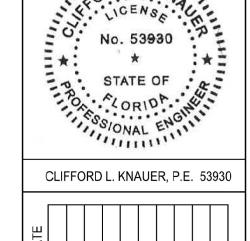


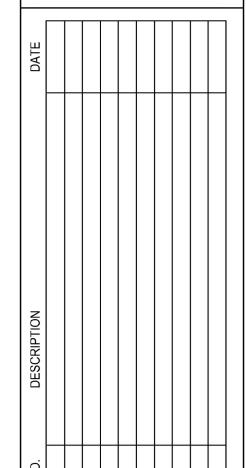
NEVER E 21 W. WILLO INLET BEA

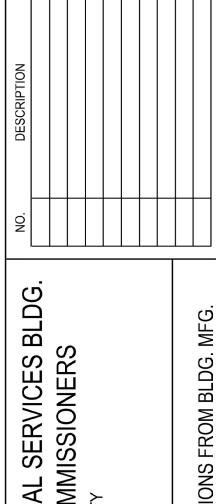
KNAUER SECTION B

END OF GRADE BEAM









GENCY MEDICAL SERVICES BI F COUNTY COMMISSIONERS HOLMES COUNTY FLORIDA RGI OF MES BO/

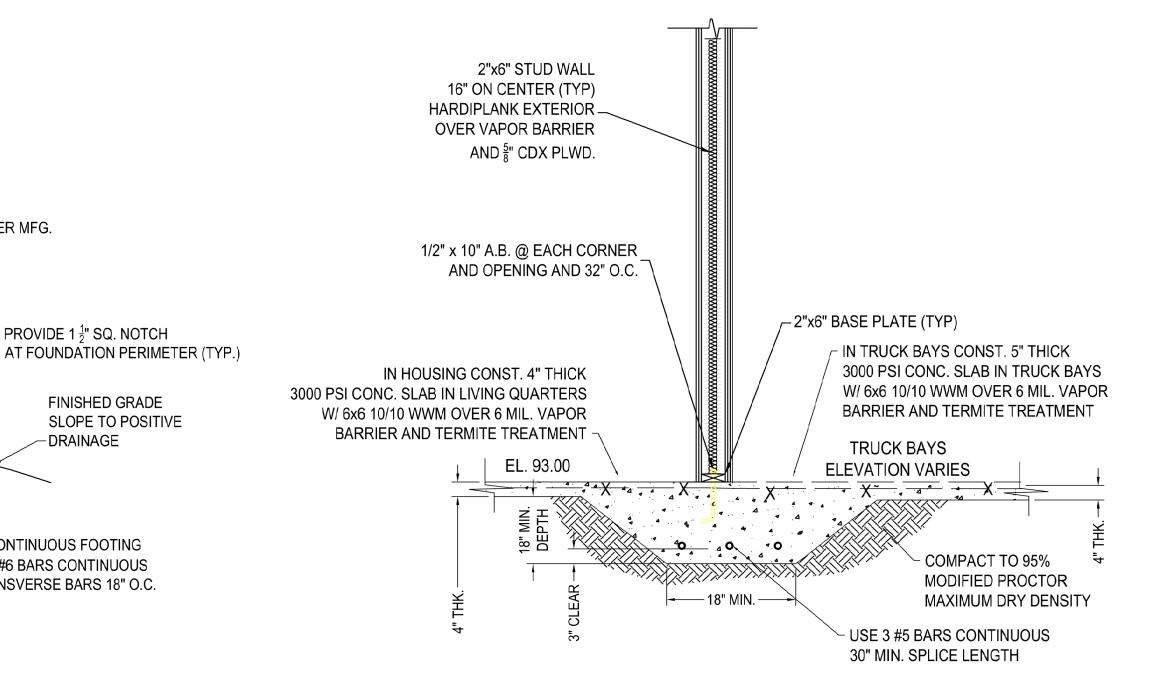
PROJECT NO. SP1020 DATE MAY 2025 DRAWN BY APPROVED BY

PROJECT STATUS CONSTRUCTION PLANS

SHEET NO.

A1.4

COLUMN FOUNDATION B



SECTION C

SECTION A

√0 △ 0

3 CLEAR →

REFER TO MFG. BUILDING PLANS FOR DETAILS ON SIZE, GRADE, AND EMBEDMENT

DEPTHS REQUIREMENTS -

4" THICK 3000# CONCRETE SLAB W/ 6x6 10/10 WWM OVER 6 MIL VAPOR

COMPACT TO 95%

MODIFIED PROCTOR

MAXIMUM DRY DENSITY

BARRIER AND TERMITE TREATMENT

GENERAL NOTES FOR FOUNDATION CONSTRUCTION

1.5%

USE 1 #5 60 KSI BAR

1/2" FIBER BOARD-

SLOPE

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE 2024 FLORIDA BUILDING CODE.
- 2. IN THE EVENT OF A CONFLICT BETWEEN PLANS AND THE CODES, THE CODES SHALL GOVERN.
- 3. CONCRETE: 4000 PSI STEEL: GRADE 60 ONLY
- 4. ASSUMED BEARING CAPACITY OF EXISTING UNDISTURBED SOILS IS 1500 PSF MINIMUM.
- 5. ALL SELECT SAND FILL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR PROVIDE DENSITY TESTING AT 25' O.C. IN EACH BUILDING FOOTER AND EACH COLUMN.
- 6. ALL LAP SPLICES IN FOOTING STEEL SHALL BE LAPPED 30 BAR DIAMETERS.
- 7. STEEL IN INTERIOR GRADE BEAMS SHALL BE SPLICED TO STEEL IN EXTERIOR GRADE BEAMS TO ASSURE CONTINUITY OF FOOTING THROUGHOUT STRUCTURE.

ALL REINFORCED CONCRETE COVER SHALL BE A MINIMUM OF 3" UNLESS OTHERWISE NOTED IN PLANS.

SECTION D

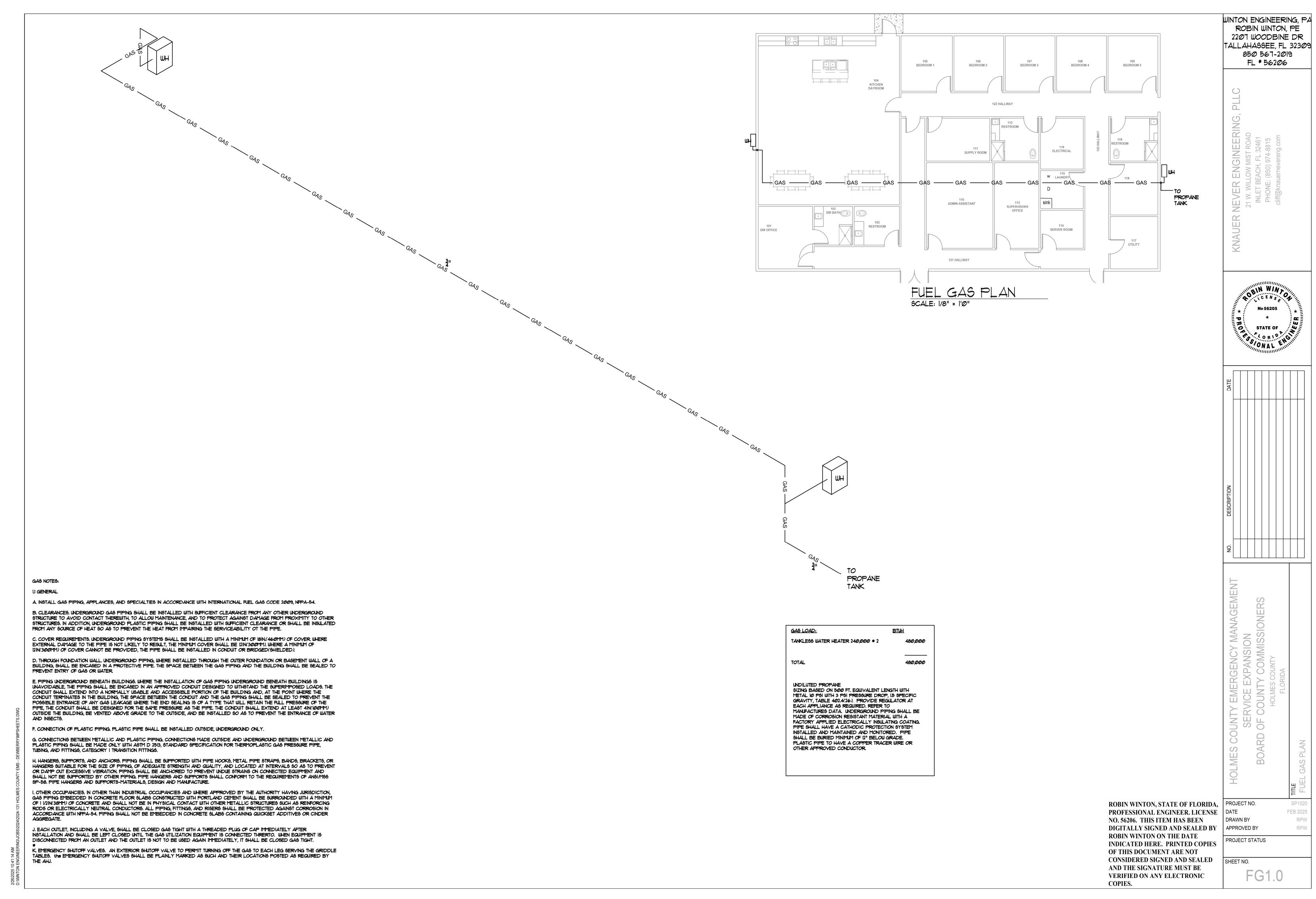
CONSTRUCT. 5" THICK 4000 PSI CONC. SLAB AT TRUCK BAYS W/6x6 10/10 WWM OVER 6 MIL

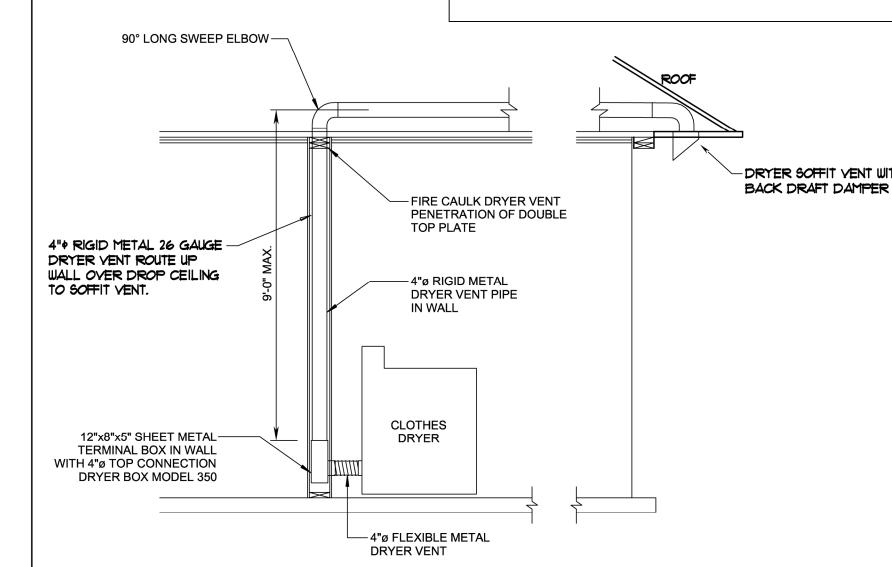
VAPOR BARRIER AND TERMITE TREATMENT

PROVIDE 1 1/2" SQ. NOTCH AT

FOUNDATION PERIMETER (TYP.)

- 9. EXTERIOR GRADE BEAMS SHALL RUN CONTINUOUS AROUND THE PERIMETER OF THE STRUCTURE TO ASSURE CONTINUITY.
- 10. ALL CONCRETE SLABS SHALL HAVE CONTROL JOINTS TO CONTROL CRACKING SPACED MAXIMUM 20 FEET IN EACH DIRECTION.
- 11. SOIL SHALL BE CHEMICALLY TREATED FOR TERMITES.
- 12. SINCE THE SITE PLAN IS BASED ON DATA PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE PRIOR TO BEGINNING CONSTRUCTION.
- 13. CONTRACTOR SHALL PROOF ROLL ENTIRE FOUNDATION AREA W/ 4-10 TON ROLLER AFTER DEMOLITION AND STRIPPING SOIL AND PRIOR TO DIGGING ANY FOUNDATION FOOTERS





DRYER VENT DETAIL

PROVIDE LONG LINE ACCESSORY AS NEED FOR REFRIGANT PIPING

	CEI	LING D	IFFUS	BER	SCHE	DULE
	SYMBOL	AIR QUANTITY	NECK SIZE	RUNOUT DUCT SIZE	FACE DII HARD CEILING	MENSION LAY-IN CEILING
	\boxtimes	0 - 60	6"¢	8"¢	12 × 12	24 × 24
TH	\boxtimes	65 - 150	8"¢	8"¢	16 × 16	24 × 24
	\boxtimes	155 - 195	8"¢	1Ø"¢	16 × 16	24 × 24
	\boxtimes	200 - 250	1Ø"¢	1Ø"¢	20 × 20	24 × 24
	\boxtimes	255 - 395	10"4	12"¢	20 × 20	24 × 24
	\boxtimes	400 - 550	12"¢	12"¢	24 × 24	24 × 24
	\boxtimes	555 - 595	12"¢	14"¢	24 × 24	24 × 24
	\boxtimes	600 - 745	14"¢	14"¢	24 × 24	24 × 24
		750 - 1000	16"¢	16"¢	30 × 30	30 × 30

		RETURN 2 Egister s	
SYMBOL	. CFM	SIZE	RUNOUT SIZE +
	0 - 75	8×6	10 × 6
	80 - 105	10×6	12 × 6
	110 - 175	10 × 10	12 × 8
	180 - 270	12 × 12	14 × 8
	275 - 325	18 × 12	20 × 8
	330 - 800	24 × 24	26 × 10

 24×24

 24×24

 26×12

 26×14

THESE SIZES ARE TO BE USED UNLESS OTHERWISE NOTED ON DRAWINGS. I. ALL DIFFUSER TO BE TITUS TYPE TMS OR EQUAL.

2. RETURN GRILLES TO BE TITUS 35ORL TYPE.

805 - 1200

1205 - 1500

1. THE WORK DESCRIBED HEREINAFTER SHALL BE INSTALLED SUBJECT TO THE NON TECHNICAL SPECIFICATIONS. THIS SECTION APPLIES TO ALL AIR CONDITIONING, SHEETMETAL, PIPING, AND AUTOMATIC TEMPERATURE CONTROLS WORK. 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO

COORDINATE HIS WORK WITH THAT OF OTHER TRADES. SEE

ARCHITECTURAL SECTIONS FOR A DESCRIPTION OF WORK AND SEQUENCE OF CONSTRUCTION. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC IN NATURE. THEY ARE, HOWEVER, AS ACCURATE AS SCALE PERMITS AND THE CONTRACTOR SHALL FOLLOW THEM AS CLOSELY AS POSSIBLE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL CONDITIONS RELATING TO THE WORK IN THE FIELD PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL VERIFY ALL WALLS, PARTITIONS, AND STRUCTURAL SYSTEMS BEFORE INSTALLATION AND FABRICATION OF ANY DUCTWORK OR PIPING SYSTEMS. ALL OFFSETS REQUIRED FOR INSTALLATION OF DUCTWORK, OR PIPING SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER SHALL BE THE SOLE INTERPRETER OF THE DRAWINGS.

3. ALL MATERIALS SHALL BE NEW AND OF BEST QUALITY AND SHALL BE THE PRODUCTS OF REPUTABLE MANUFACTURERS. MATERIALS AND EQUIPMENT SHALL BE PROPERLY STORED AND PROTECTED FROM THE WEATHER AT ALL TIMES DURING CONSTRUCTION TO PREVENT UNNECESSARY CORROSION AND FOULING. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER BY SKILLED AND COMPETENT MECHANICS. ANY WORKER CONSIDERED INCOMPETENT OR UNFIT FOR WORK ON THIS CONSTRUCTION PROJECT SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR UNDER THE DIRECTION OF THE ENGINEER.

4. THE WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, ETC., WHETHER FEDERAL, STATE OR LOCAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY PERMITS AND PAYING ANY FEES REQUIRED IN ORDER TO PROCEED WITH THE WORK.

5. THE CONTRACTOR IS REQUIRED TO ATTEND ALL CONSTRUCTION CONFERENCES INCLUDING THE PRE-BID CONFERENCE, THE PRE-CONSTRUCTION CONFERENCE AND THE OWNER'S PROGRESS MEETINGS AS SCHEDULED BY THE ARCHITECT OR THE OWNER. FAILURE TO MAKE REFERENCES IN THE SPECIFICATIONS TO ANY ITEMS OF THE WORK SHOWN BY THE DRAWINGS, AND NECESSARY TO THE COMPLETION OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY TO FURNISH THE MATERIALS AND PERFORM THE WORK OF SUCH ITEMS, IN A MANNER COMPARABLE TO OTHER ITEMS OF SIMILAR NATURE FOR WHICH DETAILED SPECIFICATIONS ARE INCLUDED. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CLEARLY SET FORTH ALL WORK, AND THE DETAILED DESCRIPTION IS ADDED TO ASSIST IN ESTABLISHING THE SCOPE AND THE LOCATION OF THE SEVERAL PARTS OF THE WORK COLLECTIVELY THEY SHALL GOVERN AND CONTROL THE SCOPE, CHARACTER AND DESIGN OF THE WORK, AND ANY ITEM CALLED FOR IN ANY ONE OF THE DOCUMENTS SHALL BE AS THOUGH REQUIRED IN ALL.

6. ALL CUTTING AND PATCHING SHALL BE DONE BY WORKMEN SKILLED IN THE TRADES INVOLVED. ALL CUTTING SHALL BE DONE IN SUCH A MANNER AS NOT TO ENDANGER OR DAMAGE FACILITIES. ALL PATCHING SHALL FINISH FLUSH AND SMOOTH AND SHALL MATCH EXISTING ADJOINING SURFACES.

7. SEE GENERAL REQUIREMENTS FOR ELECTRICITY AND WATER. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL FUEL REQUIRED FOR THE OPERATION OF HIS CONSTRUCTION EQUIPMENT.

8. ALL FINISHED FIELD INSTALLED PRESSURE PIPING SYSTEMS SHALL

9. WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, SCAFFOLDING, SERVICES, SUPERVISION, PLANT, AND PERFORMING ALL OPERATIONS REQUIRED TO PROPERLY COMPLETE ALL WORK IN ACCORDANCE WITH THESE SPECIFICATIONS AND AS INDICATED ON THE APPLICABLE DRAWINGS, SUBJECT TO TERMS AND CONDITIONS OF THE CONTRACT. THE CONTRACTOR IS REQUIRED TO HAVE A QUALIFIED AND EXPERIENCED GENERAL SUPERINTENDENT AND EXPERIENCED SUPERINTENDENT FOR EACH

MECHANICAL GENERAL NOTES

INVOLVED ON THE JOB WHEN ANY WORK IS IN PROGRESS. ALL WORK SHALL CONFORM WITH ALL LOCAL AND STATE ORDINANCES OR REGULATIONS GOVERNING THE INSTALLATION OF SUCH EQUIPMENT. IF WORK, AS LAID OUT, INDICATED OR SPECIFIED IS RECOGNIZED TO BE CONTRARY TO OR CONFLICTING WITH LOCAL ORDINANCES OR REGULATIONS, THE CONTRACTOR SHALL REPORT SAME TO THE ENGINEER BEFORE SUBMITTING A BID. THE ENGINEER WILL THEN ISSUE INSTRUCTIONS AS TO PROCEDURE. IF CONTRACTOR FAILS TO NOTIFY THE ENGINEER OF CONFLICTS OR OMISSIONS NOTED ABOVE, ALL CHANGES REQUIRED TO COMPLY WITH ORDINANCES AND REGULATIONS SHALL BE MADE WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

10. THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:

1. FLORIDA BUILDING CODE, 2023 8TH EDITION. 2. FLORIDA PLUMBING CODE, 2023 8TH EDITION. 3. FLORIDA MECHANICAL CODE, 2023 8TH EDITION.

4. NFPA 70, NATIONAL ELECTRICAL CODE

INDICATED ON THE DRAWINGS.

5. NFPA 101, LIFE SAFETY CODE 6. NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS 1. NFPA 91, STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS

THE FOREGOING RULES, STANDARDS, REGULATIONS, SPECIFICATIONS, RECOMMENDATIONS AND REQUIREMENTS SHALL BE FOLLOWED BY THE CONTRACTOR AS MINIMUM REQUIREMENTS. THEY SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES

OF MATERIALS AND WORKMANSHIP WHICH ARE SPECIFIED HEREIN OR

8. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

11. THE INTERIOR FACE OF DUCTWORK HOUSING SUPPLY, RETURN OR EXHAUST AIR DIFFUSERS, REGISTERS OR GRILLES SHALL BE PAINTED "FLAT-BLACK" SO WHEN VIEWED FROM BELOW AND ABOVE NOTHING BEYOND SURFACE OF AIR DEVICE IS VISIBLE.

12. THERMOSTAT/SENSOR WIRING TO BE RUN INSIDE WALLS/COLUMNS OR IN ATTIC SPACE. THE USE OF WIREMOLD OR EXTERNAL RACEWAY SHALL BE APPROVED BY THE ENGINEER.

13. A COMPLETE CERTIFIED TEST AND BALANCE REPORT SHALL BE SUPPLIED BY AN INDEPENDENT CERTIFIED TEST AND BALANCE AGENCY TO THE ENGINEER IN WRITING PER AABC TEST AND BALANCE REPORT MANUAL (LATEST EDITION) PRIOR TO JOB ACCEPTANCE BY OWNER. THE REPORT SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.

14. THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF/HERSELF WITH THE PLANS SPECIFICATIONS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.

15. ALL POWER WIRING, RELAYS, PANELS, TRANSFORMERS, DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING, RELAYS, PANELS SENSORS (OR THERMOSTATS) SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. ALL MOTOR STARTERS SHALL BE FURNISHED BY THE HYAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

16. ALL DUCTS TO HAVE AIR EXTRACTORS (ADJUSTABLE TYPE) ON SQUARE OR RECTANGULAR TAKEOFFS WITH SPIN-IN VOLUME DAMPERS ON ROUND OR OVAL TAKE-OFFS. SPIRAL DUCT TAKE-OFFS HAVE NO EXTRACTORS INSTALL FLEXIBLE DUCT CONNECTORS AT ALL FANS AND AIR HANDLING UNITS.

17. FLEXIBLE DUCTS MUST COMPLY WITH UL 181 AND SHALL NOT EXCEED EIGHT FEET IN LENGTH± REMAINING BRANCH LINE SHALL BE GALYANIZED METAL WITH 2" EXTERNAL INSULATION. FLEXIBLE DUCTS SHALL HAVE FOIL BACKING (FSK TYPE).

18. ANY CONDENSATION ON SURFACES OF HVAC EQUIPMENT, DUCTWORK OR PIPING WILL BE CORRECTED BY THE CONTRACTOR. WRAP WITH INSULATING TAPE OR EXTERNAL INSULATION HAVING A VAPOR

19. INSULATION OUTSIDE OF THE BUILDING SHALL BE WRAPPED WITH ALUMINUM. INSIDE ALL SUPPLY, RETURN, EXHAUST AND FRESH AIR DUCTS SHALL BE GALVANIZED METAL, COMPLETELY SEALED, FINISHED WITH 2" EXTERNAL INSULATION HAVING VAPOR, RETARDING JACKET (FSK TYPE). INSULATION SHALL COMPLY WITH UL 181 AND MUST HAVE FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING NO HIGHER

20. ROOM SENSORS OR THERMOSTATS SHALL BE MOUNTED AT 48 INCHES ABOVE FINISHED FLOOR.

21. THERMOSTATS TO BE 1 DAY PROGRAMMABLE WITH DIGITAL DISPLAY. PROVIDE AND INSTALL A LOCK BOX FOR ALL THERMOSTATS.

22. SMOKE DETECTORS (SEE DRAWINGS) SHALL BE IONIZATION TYPE AS APPROVED BY THE ENGINEER. COORDINATE THE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. CONTRACTOR SHALL VERIFY THAT DETECTORS ARE COMPATIBLE WITH FIRE ALARM SYSTEMS. IF UNIT SELECTION IS NOT COMPATIBLE THE CONTRACTOR SHALL PURCHASE AND INSTALL PROPER UNIT TO INSURE LIFE SAFETY PROTECTION. SMOKE DETECTORS SHALL AUTOMATICALLY SOUND AUDIBLE ALARM AND TURNOFF FANS.

23. FURNISH AND INSTALL ACCESS DOORS(18"x18" MINIMUM) IN ALL DRYWALL CEILINGS FOR ACCESS TO MECHANICAL EQUIPMENT.

24. COORDINATE THE INSTALLATION OF ALL AUX. COND. DRAINS LOCATED IN WALLS WITH THE GENERAL CONTRACTOR. COORDINATE THE INSTALLATION OF ALL MAIN COND. DRAINS LOCATED IN WALLS AND CHASES WITH THE PLUMBING CONTRACTOR.

25. THE CONTRACTOR SHALL NOT FABRICATE ANY AIR DISTRIBUTION DUCTWORK UNTIL IT HAS BEEN VERIFIED THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR THE INSTALLATION OF HYAC SYSTEMS CONSIDERING REQUIREMENTS FOR PIPING, LIGHT FIXTURES, CEILING SYSTEMS, FLOOR SYSTEMS, FOUNDATIONS, AND STRUCTURES. IF A CONFLICT ARISES CONTACT THE ENGINEER FOR PERMISSION IT REPOUTE SYSTEM. ALL DUCTWORK SHALL BE ROUTED AT THE EXPENSE OF THE

26. DEVIATION FROM MATERIALS, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING BY THE ENGINEER. APPROVAL WILL NOT BE GIVEN UNLESS THE ENGINEER IS SATISFIED THAT THE PROPOSED SYSTEMS ARE SUPERIOR IN PERFORMANCE, DURABILITY, LONGEVITY, AND RELIABILITY TO THAT SPECIFIED.

27. APPROVALS OF EQUIPMENT OR SYSTEMS OTHER THAN THAT SHOWN MUST BE WITHIN TEN (10) WORKING DAYS PRIOR TO BID DATE.

28. ALL DUCT AND PIPE SIZES SHOWN ARE CLEAR NET INSIDE

29. ALL AIR DISTRIBUTION DUCTWORK SHALL BE AIR TIGHT AND FREE OF LEAKS, AND SHALL BE INSPECTED FOR LEAKS PRIOR TO INSTALLATION OF FAN UNITS OR FINISHED FLOOR/CEILING SYSTEM. DUCTWORK SHALL BE SEALED WITH AIR DUCT SEALER PER SMACNA STANDARDS AND UL RATING.

30. EQUIPMENT, DUCTWORK, DAMPERS, LOUVERS, GRILLES, REGISTERS, DIFFUSERS, OTHER AIR DISTRIBUTIONS EQUIPMENT AND MATERIALS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:

(A) ASHRAE (B) SBCCI

(I) ANSI

(C) SMACNA (D) NFPA (E) AMCA STANDARD HANDBOOK 99

(J) ASME (K) AGA (L) UL FIRE RESISTANCE DIRECTORY

(F) AIR DIFFUSION COUNCIL 1EST CODE 1062R. (G) SBCCI STANDARD MECHANICAL CODE

31. INSULATE ALL REFRIGERANT LINES WITH 3/4" ARMAFLEX OR EQUIVALENT INSULATION: PROVIDE WITH WEATHERPROOF ALUMINUM JACKET ON LINES OUTSIDE.

32. ALL MATERIALS SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES (UL) OR NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).

33. REFRIGERANT PIPING SHALL BE SIZED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR LIQUID, VAPOR HORIZONTAL AND VAPOR RISERS.

34. TUBING SHALL BE INSTALLED WITH MOISTURE INDICATOR SIGHT GLASS LOCATED IN THE LIQUID LINE ADJACENT TO THE OUTDOOR UNIT.

35. THOROUGHLY CLEAN REFRIGERANT PIPE FITTINGS BEFORE ASSEMBLY. ALL JOINTS ARE TO BE MADE WITH SILVER ALLOY BRAZE MELTING ABOVE 1100 DEGREES F. NO ACID FLUX 15 TO BE USED ON

36. ALL CONDENSATE DRAINS SHALL TERMINATE INTO ROOF GUTTER. SECURE TO ROOF SEAMS WITH APPROVED CLIP.

37. ALL WORK AND MATERIALS SHALL BE WARRANTED (PARTS AND LABOR) FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER. AN ADDITIONAL WARRANTY (PARTS ONLY) SHALL INCLUDE 4 YEARS ON ALL COMPRESSORS, WITH NINE YEARS ON ALL HEAT EXCHANGERS

38. CONTRACTOR SHALL SUPPLY, TO THE ENGINEER, 6 SETS OF SUBMITTALS ON THE FOLLOWING ITEMS:

A. AIR DISTRIBUTION (DIFFUSER, GRILLE AND REGISTERS) B. HEATING/AIR CONDITIONING EQUIPMENT

C. DAMPERS FANS

INSULATION MATERIALS

. CONTROLS

G. PIPING

MANUFACTURE TO SIZE REFRIGERANT PIPING.

CONTRACTOR ORDERING. 39. ALL FEES, PERMITS, TAPS, LICENSE, INSURANCE, AND BONDS SHALL

NOTE: THESE ITEMS MUST BE APPROVED BY THE ENGINEER PRIOR TO

BE PAID BY THIS CONTRACTOR FOR ALL RELATED WORK. 40. ROUTE REFRIGERANT PIPING AS SHOWN ON DRAWINGS.

41. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE

MUST BE VERIFIED ON ELECTRONIC COPIES.

EXHAUST FAN SCHEDULE	_	
UNIT DESIGNATION		EF-1
AIR FLOW	CFM	7Ø
STATIC PRESSURE	IN. WC	0.5
FAN MOTOR POWER	HP	100W
FAN SPEED	RPM	Т32
DRIVE		DIRECT
SONES	SONES	1.5
WEIGHT	LBS	10
ELECTRICAL CHARACTERISTICS	V/PH	115/1
MANUFACTURER		GREENHECK
MODEL NUMBER		5P-B110

NOTES:

1. MOUNT ALL EXHAUST FANS IN ACCORDANCE WITH MFG INSTRUCTIONS. 2. PROVIDE FAN SPEED CONTROLLERS FOR ALL EXHAUST FANS. B. WIRE EXHAUST FANS IN ROOM THEY SERVE TO LIGHT SWITCH.

PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST 5. EF-4 TO HAVE TIME CLOCK AND OVER RIDE SWITCH IN RR. OVER RIDE TO RUN FOR 15 MINUTES BEFORE SHUTTING OFF.

WINTON ENGINEERING, PA ROBIN WINTON, PE 2207 WOODBINE DR

TALLAHASSEE, FL 32309

850 567-2019

FL # 56206

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STATE OR INCOMINE

					8	SYSTEM DAT	TA								REFRIC	GERANT				OUI	DOOR UNIT							IN	DOOR UNIT			
UNIT TAG	NOMINAL CAPACITY	MAKE	MODEL SERIES	COOLING ONLY /	AHRI TOTAL COOLING CAPACITY (95F	COOLING	CAPACITY	HEATING CAPACITY @ 17°F	AIR FLOW (HIGH)	AIR FLOW (LOW)	HSPF2	SEER2	REFR. TYPE	BASE REFR. CHARGE	REFR. CHARGE AT MAX LINE LENGTH	HEIGHT	MIN ROOM AREA PER AHRAE 15 AT MAX LINE LENGTH	MAX LINE LENGTH	OUTDOOR MODEL	COMPRESSOR STAGES / TYPE	VOLTAGE	MCA	МОСР	WEIGHT	INDOOR MODEL	VOLTAGE	MCA	МОСР	FILTER	COMMUNICATION	CONDENSAT DRAIN SIZE	
	TONS				BTUH	BTUH	BTUH	BTUH	CFM	CFM	BTU/W-HR	BTU/W-HR	LBS	LBS	FT	FT	SQFT	FT		#/TYPE	V/PH	AMPS	AMPS	LBS		V/PH	AMPS	AMPS			IN.	LBS.
DFU-1	3/4	DAIKIN	OTERRA	HEAT PUMP	9,000	8,140	10,900	6,600	424	261	9.0	20	R32	1.15	1.60	8	41.8	66	RXQ09ASBU	INVERTER	115 / 1	14.9	15	59	FTXQ09ASBU	IDU POWR'D BY ODU	N/A	N/A	1" WASHABLE	STANDARD WIRELESS T-STAT	5/8	18.0
SCHEDULE																																
PROVIDE OU	TDOOR UNIT W	ALL MOUNT	ED BRACKET																													
PROVIDE CO	NDENSATE PU	IMP. INSTAL	ED SEPARAT	ELY.																												

						SYSTE	M DATA									OUD	OOR UNIT								INDOOR	JNIT				
UNIT TAG	CADACITY MAKE SEEDS		OUTDOOR MODEL	COMPRESSOR STAGES / TYPE	VOLTAGE	MCA	MOCP	WEIGHT	INDOOR MODEL	FAN MOTOR	MAX ESP	ELECTRIC HEAT CAPACITY	INTEGRAL HEATER	VOLTAGE	MCA	МОСР	CONDENSATE DRAIN SIZE	WEIGHT												
	TONS			BTUH	BTUH	BTUH	CFM	CFM	Fdb	Fwb	Fdb	BTU/W-HR	BTU/W-HR	BTU/W-HR		#/ TYPE	V/PH	AMPS	AMPS	LBS.		HP	IN. WG	kW	DISCONNECT?	V/PH	AMPS	AMPS	IN.	LBS.
AHU/HP-1	5	DAIKIN	HEAT PUMP	57,000	42,180	57,000	200	1,810	80	67	#NAME?	8.2	16.0	14.3	DH5SEA6010	TWO STAGE SCROLL	208-230 / 1	34.8	60	309	AMST60DU 1300	1	0.9	10	YES	240 / 1	58.6	60	3/4	167
AHU/HP-2	3	DAIKIN	HEAT PUMP	34,800	25,056	34,400	150	1,190	80	67	#NAME?	8.1	17.2	14.3	DH7TCA3610	TWO STAGE SCROLL	208-230 / 1	20.8	35	262	DMVT42CP1300	3/4	0.9	8	YES	240 / 1	48.2	50	3/4	153
	SCHEDULE N																													
	ILTER WITH RANDENSATE PU																													
			UMIDITY CONTROL																											
PROVIDE SIN	GLE POINT OF	POWER																												
THERMOSTA	T TO BE HONE	EYWELL VISIO	ON PRO 8000 WITH H	HUMIDITY CONTRO	L																									
MANUFACTU	RE TO PROVE	DE TRANSFO	ORMERS AS NEEDE	D FOR EECTRIC H	EATERS																									
			E FOR INSTALLATION			S																								

DH-1

PERFORMANCE Water Removal 70 Pints / 8.75 Gallons 55 Pints / 6.875 Gallons

4.79 Pints/kWh Efficiency 5.0 Pints/kWh Energy Factor 2.4 L/kWh 2.27 L/kWh 150 CFM @ 0.0" WG 140 CFM @ 0.2" WG

130 CFM @ 0.4" WG 70 Watts Operating Temperature 49°F Min., 95°F Max.

580 watts @ 80°F and 60% RH

115 volt – 1 phase – 60 Hz

Up to 1,800 Sq. Ft. / 18,000 Cu. Ft. Sizing **ELECTRICAL**

Current Draw 5.1 amps Plug Type B 9', 115 VAC, Ground (USA, MEX, CAN, JPN) Power Cord Circuit Requirement 15 Amps

SPECIFICATIONS

Supply Voltage

Duct Connections 8" Round Inlet, 8" Round Outlet 3/4" Threaded Female NPT Drain Connection Refrigerant R410A, 15 oz. **Unit Dimensions** 12"W x 12"H x 28"D Unit Weight 55 lbs.

SHIPPING Shipping Dimensions 15"W x 16"H x 31"D Shipping Weight 65 lbs. Pallet Quantity 12 per pallet **UPC Number** 859029004632 Shipping Options UPS and LTL

MODEL 4033730 SANTA FE

FEATURES

profile spaces + □ Rotatable exhaust outlet provides for horizontal or vertical discharge

+ □ Ducting option for fresh outdoor air ventilation

DEH 3000/R digital control +

Features MERV-13 filter for superior

+

Push button reset for transformer protection

air filtration

ROBIN WINTON, STATE OF FLORIDA, PROFESSIONAL ENGINEER. LICENSE NO. 56206. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY **ROBIN WINTON ON THE DATE** INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE **VERIFIED ON ANY ELECTRONIC** COPIES.

SSIONE + □ Small footprint (12" x 12" x 22") fits low + □ Onboard dehumidistat with optional

DATE DRAWN BY APPROVED BY

PROJECT STATUS

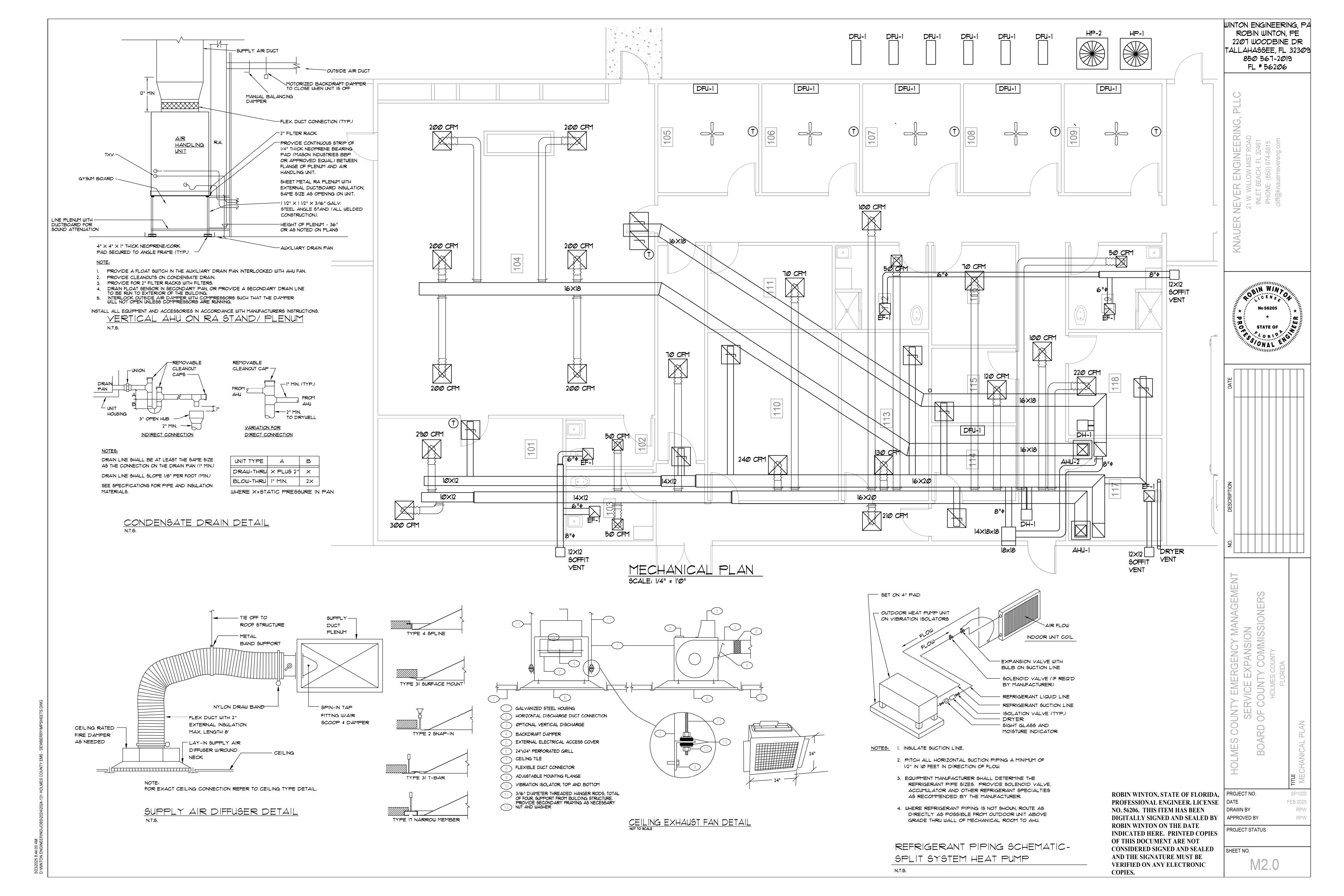
SHEET NO.

SP1020

FEB 2025

RPW

RPW



PLUMBING	G LEGEND
9YMBOL	
Θ——	ELBOW DOWN
<u> </u>	ELBOW UP
	TEE UP
	TEE DOWN
—	CHANGE IN PIPE SIZE
	SANITARY PIPE
	DOMESTIC COLD WATER
— нw — нw —	HOT WATER
	VENT PIPING

PLUMBING NOTES:

1.1 DESCRIPTION:

A. THE NON-TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS OF THESE SPECIFICATIONS ARE APPLICABLE IN FULL HERETO.

B. INCLUDE ALL EQUIPMENT, MATERIAL AND LABOR REQUIRED FOR COMPLETE AND OPERATING PLUMBING SYSTEMS. DUE TO THE SMALL SCALE OF THE FLOOR PLANS AND DIAGRAMMATIC RISER DIAGRAMS, SOME ITEMS INVOLVED MAY NOT BE INCLUDED.

A. WORK WILL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING SYSTEMS COMPLETE WITH ALL REQUIRED ACCESSORIES:

I. A SYSTEM OF SANITARY SOIL, WASTE AND VENT PIPING. 2. A SYSTEM OF DOMESTIC HOT AND COLD WATER PIPING.

4. WATER SERVICE TO EACH FIXTURE REQUIRING SUCH SERVICE. 5. SANITARY BUILDING DRAINS AND FIXTURE BRANCHES FROM EACH FIXTURE REQUIRING SUCH SERVICE. 6. PIPING INCIDENTAL TO HEATING AND AIR CONDITIONING WORK TO THE EXTENT HEREIN SPECIFIED.

3. PLUMBING FIXTURES, EQUIPMENT, ACCESSORIES, TRIM AS SPECIFIED

1.3 LAWS AND CODES:

A. THE CONTRACTOR SHALL INSTALL ALL WORK IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND BE INCLUSIVE OF ALL STATE, AND LOCAL CODES. ALL PROVISIONS OF THIS SECTION APPLY TO ALL PLUMBING WORK.

B. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND CHARGES REQUIRED INCIDENTAL TO THE WORK INVOLVED THAT MAY BE NECESSARY FOR FULLY COMPLETING THE WORK.

C. THE CONTRACTOR SHALL MAKE ALL NECESSARY TESTS REQUIRED BY LOCAL AUTHORITIES, LEGAL REGULATIONS AND RETURN TO THE ENGINEER ANY CERTIFICATE OF APPROVAL ISSUED FOR ALL PLUMBING WORK SIGNED BY THE INSPECTING ADMINISTRATIVE AUTHORITY IN CHARGE OF EACH PARTICULAR PART OF THE WORK.

1.4 QUALIFICATIONS:

A. THE CONTRACTOR SHALL BE A LICENSED PLUMBER CERTIFIED BY THE

1.5 DRAWINGS:

A. IN THE INTEREST OF CLEARNESS, THE WORK IS NOT ALWAYS SHOWN TO SCALE OR EXACT LOCATION. CHECK ALL MEASUREMENTS, LOCATION OF PIPE, DUCTS AND EQUIPMENT WITH THE DETAIL ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS, AND LAY OUT WORK SO AS TO FIT IN WITH CEILING GRIDS, LIGHTING AND OTHER PARTS. WHERE DOUBT ARISES AS TO THE MEANING OF THE PLANS AND SPECIFICATIONS, OBTAIN THE ENGINEER'S DECISION BEFORE PROCEEDING WITH PARTS AFFECTED OTHERWISE ASSUME LIABILITY FOR DAMAGE TO OTHER WORK AND FOR MAKING NECESSARY CORRECTIONS TO WORK IN QUESTION.

1.6 CHANGES AND CONFLICTS:

A. IF DURING CONSTRUCTION DESIRABLE OR NECESSARY CHANGES BECOME APPARENT, ADVISE THE ENGINEER AND SECURE HIS DECISION IN WRITING. OTHERWISE, MAKE NO DEVIATION FROM THE SYSTEM AS

1.7 GUARANTEE AND SERVICE:

A. THE CONTRACTOR SHALL GUARANTEE ALL PIPING, EQUIPMENT, FIXTURES AND RELATED MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AGAINST DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIALS SUCH DEFECTS WILL BE CORRECTED PROMPTLY AFTER NOTIFICATIONS BY THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE WITH NO COST TO THE OWNER.

B. THE CONTRACTOR SHALL ALSO FURNISH WITHOUT CHARGE, ANY REASONABLE SERVICE IN MAKING MINOR ADJUSTMENTS TO FIXTURES AND EQUIPMENT FOR THE SAME PERIOD, BUT THIS SERVICE WILL NOT INCLUDE THE REPLACEMENT OF PARTS DAMAGED BY MALICIOUSNESS OR VANDALISM AFTER ACCEPTANCE BY THE OWNER. OR CLEARING OF OBSTRUCTION FROM SEWERS CAUSED BY OTHER THAN DEFECTS IN THE

C. THE CONTRACTOR SHALL PUT ALL ITEMS INSTALLED UNDER THIS DIVISION INTO OPERATION AND WILL INSTRUCT THE OWNER'S MAINTENANCE PERSONNEL IN ALL POINTS REQUIRING SERVICE AND MAINTENANCE.

1.8 SUBMITTAL DATA:

A. WITHIN 30 DAYS AFTER AWARD OF CONTRACT, SUBMIT FOR APPROVAL A COMPLETE SCHEDULE OF MATERIAL AND EQUIPMENT PROPOSED. PARTIAL LISTS WILL NOT BE CONSIDERED. INCLUDE CATALOG DATA. SCHEDULED CAPACITIES, ETC., WHERE SUBSTITUTIONS ARE PROPOSED. FOLLOW PROCEDURES SET FORTH IN THE GENERAL CONDITIONS.

B. UPON REQUEST, SUBMIT SHOP DRAWINGS SHOWING PROPOSED ARRANGEMENT OF EQUIPMENT, PIPING, FLOOR DRAINS, POWER REQUIREMENTS AND CONTROLS. IN ANY CASE, SUBMIT DETAIL LAYOUTS OF POTENTIAL CONFLICTS AT PLUMBING DROPS, EQUIPMENT ROOMS, TIGHT CEILINGS, ETC.

1.9 EXISTING CONDITIONS:

A. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME ACQUAINTED WITH ALL JOB CONDITIONS. NO CONSIDERATIONS WILL BE GIVEN AFTER BID OPENING FOR ALLEGED MISUNDERSTANDING REGARDING UTILITY CONNECTIONS, PERMITS, FEES, ETC.

B. THE DRAWINGS INDICATE SYSTEMS WHICH ARE LOCATED IN EXISTING PARTITIONS AND BEHIND WALLS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL PIPING CONNECTIONS AND INCLUDE IN HIS BID CONTINGENCIES FOR THE RELOCATION OF SUCH SYSTEMS IF CONNECTIONS

CAN NOT BE MADE AS SHOWN ON THE DRAWINGS.

C. THE CONTRACTOR IS REQUIRED TO CONNECT TO EXISTING PLUMBING SYSTEMS FOR THE CONSTRUCTION OF THIS PROJECT AND IS REQUIRED TO KEEP DISRUPTION OF THE EXISTING SYSTEMS TO A MINIMUM. SCHEDULE CONNECTION TO EXISTING SYSTEMS IN ADVANCE AND ADVISE THE OWNER TO THE LENGTH OF TIME SUCH SYSTEMS WILL NOT BE IN OPERATION. THE CONTRACTOR SHALL MAKE CONNECTIONS AFTER HOURS OR ON WEEKENDS IF REQUESTED BY THE OWNER. NO CONSIDERATIONS WILL BE GIVEN AFTER BID OPENING FOR ALLEGED MISUNDERSTANDING REGARDING UTILITY CONNECTIONS, PERMITS, FEES, ETC.

A. INTERRUPT EXISTING SERVICES ONLY AT TIMES APPROVED BY THE OWNER. HOLD INTERRUPTIONS TO THE MINIMUM IN DURATION AND

1.11 AS-BUILT DRAWINGS:

A. OMIT

A. FURNISH FIVE (5) COPIES OF MAINTENANCE INSTRUCTIONS, OPERATING INSTRUCTIONS AND PARTS LISTS FOR ALL FIXTURES AND EQUIPMENT BOUND INTO FIVE (5) MANUALS, LOOSE SHEETS WILL NOT BE ACCEPTED. ONE MANUAL WILL BE SUBMITTED TO THE ENGINEER COMPLETE, PRIOR TO FINAL INSPECTION AND FINAL PAYMENT. THE REMAINING FOUR (4) MANUALS WILL BE SUBMITTED TO THE ENGINEER.

1.13 COORDINATION OF WORK WITH OTHER TRADES:

A. THE CONTRACTOR SHALL LAYOUT AND PROCEED WITH THIS WORK SO THAT THIS WORK WILL BE EXECUTED IN HARMONY WITH ALL OTHER CONTRACTS PERTAINING TO THIS PROJECT.

B. ALL ELECTRICAL POWER WIRING REQUIRED FOR INSTALLATION OF EQUIPMENT UNDER THIS SECTION IS SPECIFIED UNDER ELECTRICAL DIVISION. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROLS, AND CONTROL WIRING AS SPECIFIED OR REQUIRED TO PROPERLY COMPLETE THE INSTALLATION, CONTROL CONDUIT IS SPECIFIED UNDER ELECTRICAL DIVISION TO THE EXTENT SHOWN ON ELECTRICAL DRAWINGS ALL OTHER CONTROL CONDUIT SHALL BE PROVIDED UNDER THIS SECTION OF WORK, ALL ELECTRICAL WORK PERFORMED UNDER THIS SECTION SHALL MEET REQUIREMENTS SET FORTH IN THE ELECTRICAL DIVISION.

C. PIPE SLEEVES - FIT ALL PIPES PASSING THROUGH MASONRY AND JOB CAST CONCRETE CONSTRUCTION WITH SLEEVES. SLEEVES SHALL BE CUT FLUSH WITH FACH SURFACE 1/2" LARGER IN DIAMETER THAN THE PASSING PIPE OR COVER, BUILT-IN AS WORK PROGRESSES. SLEEVES THROUGH JOISTS AND BEAMS SHALL BE OF GALVANIZED STEEL PIPE OTHER SLEEVES SHALL BE OF 16 GAUGE GALVANIZED IRON. MAKE SPACE BETWEEN FLOOR SLEEVES AND PASSING PIPES WATERTIGHT BY CAULKING WITH FIREPROOF PACKING AND PLASTIC WATERPROOF CAULKING COMPOUND.

D. ACCESS PANELS AND DOORS:

I. FURNISH TO GENERAL CONTRACTOR FOR INSTALLATION WHEREVER REQUIRED FOR ACCESS TO VALVES, AIR VENTS OR SIMILAR DEVICES. DOORS SHALL BE SUITABLE FOR WALL FINISH INVOLVED, 12" X 16" UNLESS OTHERWISE INDICATED, FIRE RATED WHERE FIRE WALLS ARE PENETRATED, MILCOR, PHILIP CAREY, ZURN OR OTHER APPROVED

2. WHERE DEVICE OCCURS ABOVE A LIFT-OUT ACOUSTICAL CEILING PANEL, IDENTIFY THE PANEL WITH A 3/4" *8 ROUND HEAD SELF-THREADING SCREW. SCREWED INTO PANEL WITH ONLY THE HEAD SHOWING. BEFORE INSERTING, PAINT HEAD OF SCREW WITH APPROPRIATE COLOR AS SPECIFIED UNDER PIPE IDENTIFICATION AND COLOR CODING.

E. CUTTING AND PATCHING:

I OPENINGS ARE TO BE LAID OUT AND BUILT-IN FURNISH DETAILED. LAYOUT DRAWINGS TO OTHER TRADES IN ADVANCE OF THEIR WORK. PIPING WITHIN OR BEHIND WALLS MUST BE INSTALLED BEFORE WALL IS ERECTED. OTHERWISE WALLS, ETC., AFFECTED MUST BE REWORKED B TRADE WHICH ERECTED SAME AT EXPENSE OF THE CONTRACTOR CHASING AND CUTTING OF NEW WORK WILL NOT BE ACCEPTED. 2. CUTOUTS IN COUNTERTOPS SHALL BE MADE BY MILLWORK CONTRACTOR UPON RECEIPT OF PROPER TEMPLATES. OPENINGS IN EXISTING WALLS SHALL BE MADE BY TRADE REQUIRING SAME, WITH REPAIRING AND PATCHING REQUIRED THEREBY DONE BY THE RESPECTIVE TRADE WHOSE WORK IS DAMAGED.

F. PAINTING AND FINISHING:

I. CLEAN AND PAINT WITH TWO COATS OF ENAMEL ALL EXPOSED FERROUS METAL PARTS OF MECHANICAL EQUIPMENT LOCATED IN MACHINERY ROOMS, ABOVE CEILINGS. ETC. (INCLUDE BLACK STEEL PIPE, UNCOATED CAST IRON PIPE, HANGERS, BRACKETS, ETC.). 2. PAINTING OF SURFACES IN FINISHED AREAS IS SPECIFIED UNDER SECTION "PAINTING". WHERE FACTORY FINISHED ITEMS ARE MARRED OR SCRATCHED, REPLACE THE ITEM, OR UPON APPROVAL, REFINISH OR TOUCHUP AS REQUIRED TO BRING TO A LIKE-NEW CONDITION.

G. CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHERS:

1. THE PLUMBING CONTRACTOR SHALL PROVIDE FLOOR DRAINS REQUIRED FOR THIS EQUIPMENT AS SCHEDULED ON THE DRAWINGS. 2. ALL REQUIRED WATER SUPPLY LINES WILL BE EXTENDED TO WITHIN 2'-O" OF EQUIPMENT LOCATIONS AND TERMINATED WITH A GATE YALVE. FINAL CONNECTIONS TO EQUIPMENT WILL BE MADE BY THE PLUMBING CONTRACTOR AND COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER.

1.14 MISCELLANEOUS REQUIREMENTS:

A. MATERIALS AND EQUIPMENT - NEW AND OF BEST QUALITY IN EVERY RESPECT. PIPE AND FITTINGS SHALL CONFORM TO THE ASTM STANDARD DESIGNATED FOR PIPE OF EACH MATERIAL. EQUIPMENT SHALL BE ESSENTIALLY THE STANDARD PRODUCT OF THE MANUFACTURER AND UL APPROVED WHERE COMMERCIALLY AVAILABLE. WHERE TWO OR MORE UNITS OF THE SAME CLASS OF EQUIPMENT ARE REQUIRED, THESE UNITS SHALL BE PRODUCTS OF A SINGLE MANUFACTURER HOWEVER, THE COMPONENT PARTS OF EACH UNIT NEED NOT BE.

B. WORKMANSHIP - FIRST CLASS AND IN ACCORDANCE WITH BEST PRACTICE. PIPE SHALL BE CUT CLEAN, PROPERLY REAMED, THREADED OR SOLDERED, ERECTED PLUMB AND SECURE. MAKE CHANGES IN PIPE SIZE WITH REDUCING FITTINGS WITHOUT THE USE OF BUSHINGS, WORK SHALL BE EXECUTED BY EXPERIENCED MECHANICS AND SHALL PRESENT A NEAT APPEARANCE. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

C. AT ALL STAGES OF INSTALLATION, PROTECT PIPE OPENINGS, FIXTURES AND EQUIPMENT AGAINST THE ENTRANCE OF FOREIGN MATERIALS, AND FROM DAMAGE BY THE ELEMENTS, MORTAR, PAINT, ETC.

D. FACTORY FINISHES - MANUFACTURER'S STANDARD UNLESS OTHERWISE STATED. SUBMIT COLOR CARDS FOR SELECTION WHERE CHOICE EXISTS.

E. EXPANSION - PROVIDE FOR EXPANSION AND CONTRACTION OF ALL PIPING AND MAKE PROPER PROVISIONS SO THAT EXCESSIVE STRAIN WILL NOT OCCUR ON PIPING OR OTHER

F. SAFETY PROVISIONS - PROVIDE COVERS OR GUARDS ON ALL HOT, MOVING AND PROJECTING ITEMS WHICH COULD BE A HAZARD TO OCCUPANTS OF THE BUILDING OR TO SERVICE

G. CLEANING AND ADJUSTING - UPON COMPLETION OF WORK, CLEAR ALL DRAINS, TRAPS, FIXTURES, DUCTS AND PIPE. ADJUST ALL VALVES, PACK STUFFING BOXES, REMOVE RUBBISH AND LEAVE WORK IN CLEAN AND OPERATING CONDITION.

H. ESCUTCHEONS - WHERE PIPES PASS THROUGH FLOORS, WALLS AND CEILINGS, PROVIDE PRESSED CHROME-PLATED BRASS OR STEEL PLATES SECURELY FASTENED IN PLACE.

PART 3- EXECUTION

3.1 SANITARY PIPING:

B. FREEZE PROTECT ALL EXPOSED SANITARY PIPING.

A. SCOPE - PROVIDE A SYSTEM OF SOIL, WASTE AND VENT PIPING CONNECTING ALL PLUMBING 3.5 PIPE HANGERS AND SUPPORTS: PER FT FO FIXTURES, EQUIPMENT, ETC., TO THE BUILDING DRAIN SYSTEM, WITH CONSOLIDATED VENT CONNECTIONS EXTENDING THROUGH THE BUILDING ROOF, ALL AS SHOWN ON THE DRAWINGS.

C. LAYING OUT WORK - VENTS FROM ANY FIXTURE. WHEN CONNECTED TO VENT LINE SERVING OTHER FIXTURES, SHALL BE EXECUTED AT LEAST SIX (6) INCHES ABOVE FLOOD LEVEL RIM OF HIGHEST OF SUCH FIXTURES TO PREVENT USE OF VENT LINES AS A WASTE, MAKE CHANGES IN DIRECTION BY APPROPRIATE USE OF 45 DEGREE YS, 1/2" YS, OR LONG: SWEEP 1/4, 1/6, 1/8 OR 1/16 3. CAST IRON PIPE - REFER TO SANITARY PIPING BENDS. SANITARY TS OR SHORT 1/4 BENDS MAY BE USED ON VERTICAL STACKS OR DRAINAGE LINES WHERE CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL EXCEPT THAT LONG-TURN TY'S SHALL BE USED WHEN TWO FIXTURES ARE INSTALLED BACK TO BACK WITH COMMON DRAIN. STRAIGHT TS, ELLS AND CROSSES MAY BE USED ON VENT LINES. MAKE NO CHANGE IN DIRECTION OF FLOW GREATER THAN 90 DEGREES. WHERE DIFFERENT SIZES OF DRAINAGE PIPES OR FITTINGS ARE CONNECTED, USE STANDARD INCREASERS AND REDUCERS OF PROPER SIZE. DO NOT REDUCE SIZE OF DRAINAGE PIPING IN DIRECTION OF FLOW. DRILLING AND TAPPING OF HOUSE DRAINS, SOIL, WASTE OR VENT PIPES, AND USE OF SADDLE HUBS AND BANDS ARE PROHIBITED.

D. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED.

E. HANGERS - SUPPORT PIPE ADJACENT TO EACH FITTING AND ON CENTERS NOT EXCEEDING FIVE FEET WITH HANGERS AS SPECIFIED HEREINAFTER. RIGIDLY SUPPORT BASE OF VERTICAL RUNS WITH SOLID MASONRY OR CONCRETE.

F. IN ADDITION, PROVIDE ADEQUATE SWAY BRACING TO STABILIZE ALL COMPONENTS OF THE SYSTEM. PROVIDE SPECIAL SUPPORT FOR FIXTURE ARMS, CLOSET BENDS, ETC.

G. GRADING - UNIFORM AND NOT LESS THAN 1/8" PER FOOT FOR PIPE 4" AND OVER, AND NOT LESS THAN 1/4" PER FOOT FOR 2" AND 3" PIPING.

H. WASTE ARMS - PVC DWV OR IPS BRASS PIPE TYPICAL IPS BRASS PIPE AT URINALS.

I. TEST FITTINGS - NOT SHOWN ON THE DRAWINGS: PROVIDE WHERE REQUIRED FOR PARTIAL

J. PIPING TO BE CAST IRON OR PVC - DWY IN ACCORDANCE WITH FPC 2020 1TH EDITION. 3.3 WATER PIPING:

A. SCOPE - CONNECT TO UTILITIES AS SHOWN ON THE DRAWINGS AND COORDINATE WITH THE

B. GENERAL WORKMANSHIP - CUT ACCURATELY TO MEASUREMENTS ESTABLISHED AT SITE AND WORK INTO PLACE WITHOUT SPRINGING OR FORCING, PROPERLY CLEARING ALL OPENINGS, FINISHED CEILINGS, ETC. ROUTE THROUGH PREVIOUSLY BUILT-IN SLEEVES AND AVOID EXCESSIVE CUTTING OR OTHER WEAKENING OF THE STRUCTURE. REAM ALL PIPE TO REMOVE BURRS, MAKE CHANGES IN DIRECTION AND SIZE WITH FITTINGS, CAP OR PLUG OPEN PIPE ENDS DURING INSTALLATION TO KEEP OUT FOREIGN MATERIAL. MAKE CONNECTIONS CAREFULLY TO INSURE UNRESTRICTED FLOW, ELIMINATE AIR POCKETS AND TO PERMIT COMPLETE DRAINAGE OF THE SYSTEMS. FREEZE PROTECT ALL EXPOSED WATER PIPING.

C. GRADING - GRADE PIPE UPWARD FROM SOURCE TO FACILITATE DRAINAGE AND AIR RELIEF. WHERE LOW POINTS ARE REQUIRED BECAUSE OF LONG RUNS OR WHERE SECTIONS MAY BE VALVED OFF, PROVIDE WITH 3/4" GLOBE VALVE AND HOSE NIPPLE FOR DRAINAGE AT LOW POINT, MAKE ALL CONNECTIONS TO RISERS AND FIXTURES FROM TOP OF MAINS.

D. NIPPLES - OF SAME MATERIAL AS PIPE IN WHICH THEY ARE INSTALLED PROVIDE EXTRA STRONG WHEN UNTHREADED PORTION IS LESS THAN I" LONG.

E. PIPING TO BE COPPER OR CPVC.

3.4 WATER PIPING SPECIALTIES:

A. UNIONS - 150 LB. RATED CAST BRASS GROUND-JOINT TYPE IN COPPER PIPE, GALVANIZED MALLEABLE IRON IN WROUGHT IRON OR GALVANIZED PIPE.

B. PROVIDE IN ALL SIZES OR THREADED PIPE. AND IN SWEAT JOINTED PIPE OVER I", SO AS TO FACILITATE EASY REPAIRS. IN SUCH LINES INSTALL ADJACENT TO WATER HEATERS, PUMPS. TANKS, ETC., INTO WHICH PIPING IS TERMINATED AND ON AT LEAST ONE SIDE OF VALVES, COCKS. STRAINERS, ETC., AND OTHER DEVICES WHICH OCCUR IN PIPING RUNS.

C. PROVIDE DIELECTRIC UNIONS BETWEEN FERROUS AND NON-FERROUS PIPING (INCLUDING PIPING AND WATER HEATER STUBS WHERE DIFFERENT).

D. VALVES - PROVIDE WHERE SHOWN AND/OR SPECIFIED, INCLUDING ALL FIXTURES OR EQUIPMENT NOT FURNISHED WITH STOPS. ALL VALVES OF EACH TYPE SHALL BE THE PRODUCT OF ONE MANUFACTURER, STOCKHAM UNITS AS INDICATED BELOW, OR EQUALS BY CRANE OR WALWORTH. ALL VALVES SHALL BE RATED 200 LB. WWP.

E. BALL VALVES 2" AND SMALLER - 5-201 BR CAST BRONZE FOR THREADED PIPE. F. SHOCK ABSORBERS - CERTIFIED BY PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH201, PROVIDE WHERE INDICATED.

G. WALL HYDRANTS (TYPICAL) - SEE FIXTURE SCHEDULE, FURNISH VACUUM BREAKER ON EACH

H. YARD HYDRANTS (TYPICAL) - NON-FREEZE 3/4" CHROMIUM PLATED BRONZE HOSE BIBB WITH LOOSE KEY, WADE W-8620 WITH INTEGRAL BACKFLOW PREVENTER OR APPROVED EQUAL. FURNISH VACUUM BREAKER ON EACH HYDRANT. INSTALL FLUSH WITH FINISH GRADE. SEE DRAWINGS FOR LOCATION.

I. PRESSURE REDUCING YALYES - WATTS/MUESCO SERIES I IS AS SIZED ON DRAWING, FURNISH WITH WATTS NO. 176 OR 17F "Y" TYPE STRAINER, CRANE OR STOCKHAM.

J. THERMOMETERS - "ANY ANGLE" TYPE WITH 9 INCH SCALE AND SUITABLE TEMPERATURE RANGE, AS MANUFACTURED BY TRERICE TYPE BX. THERMOMETERS SHALL BE MERCURY ACTUATED WITH PHENOL CONDENSATE WITH ALUMINUM OR BRASS CASES AND 6" SOCKET WITH EXTENSION NECK. LOCATE SO AS TO BE CONVENIENT FOR READING. EQUAL PRODUCT BY WESKLER, MARSH OR MAXWELL MOORE WILL BE ACCEPTED.

K. PRESSURE GAGES - BOURDON TUBE TYPE, AS MANUFACTURED BY TRERICE NO. 600 COMPLETE WITH CAST ALUMINUM CASE, NO. 872 VIBRATION OR PULSATION SNUBBER AND NO. 735 NEEDLE VALVE. GAGE DIALS SHALL BE NOT LESS THAN 4-1/2" AND CASES SHALL BE OF ALUMINUM ALLOY. FURNISH WITH SUITABLE PRESSURE RANGES FOR EACH APPLICATION. EQUAL PRODUCTS BY WESKIER, MARSH OR ASHCROFT WILL BE ACCEPTED.

L. VACUUM BREAKER - WATTS NO. 36A , CRANE OR STOCKHAM.

M. HOT WATER PIPING TO INSULATED PER FLORIDA PLUMBING CODE.

A. SPACING - INSTALL SUPPORTS AS REQUIRED TO PREVENT SAGS, BENDS OR VIBRATION IN ANY CASE PROVIDE WITHIN SIX INCHES OF ELBOWS AND VALVES, AT ENDS OF BRANCHES OVER FIVE FEET, AND ON CENTERS NOT EXCEEDING THE FOLLOWING:

1. COPPER TUBING - UP TO I". 6 FEET: OVER I", 8 FEET 2. STEEL PIPE - UP TO 1-1/4", 8 FEET: 1-1/2" AND 2", 10/ FEET: 2" THROUGH 3-1/2", 12 FEET OVER 3-1/2", 16 FEET

B. EQUAL PRODUCTS - EQUIVALENT DEVICES BY GRINNELL. ELSEN. STOCKHAM OR CRANE WILL BE ACCEPTED

C. HANGER RODS - OF MILD STEEL, THREADED AS REQUIRED. USE NOT SMALLER THAN 3/8" RODS FOR PIPE 2" AND UNDER, 1/2" RODS FOR PIPES 2-1/2" THROUGH 6", BUT GENERALLY AS STANDARD FOR THE HANGER SELECTED. SUPPORT RODS WITH THREADED INSERTS, EXPANSION SHIELDS OR BEAM CLAMPS.

D. AT TYPICAL SUSPENDED HORIZONTAL PIPE - ADJUSTABLE CLEVIS OR SPLIT-RING TYPE, EQUAL TO FEE & MASON 239 OR 215.

E. WHERE IN CONTACT WITH COPPER PIPE - SAME AS ABOVE EXCEPT HANGERS COPPER

F. VERTICAL PIPING ALONG WALL - FEE & MASON *241 RISER CLAMPS AT FLOORS AND *336 STAND-OFF BRACKETS TOGGLE BOLTED TO WALL. PLACE UNDER HUBS OR COUPLINGS WHERE AT ALL POSSIBLE. GRINNELL OR WATTS.

G. ON INSULATED LINES - SIZE HANGER LOOPS TO FIT OVER INSULATION, AND PROVIDE 12" LONG,

H. SUPPORTS FOR WATER SUPPLY PIPING IN SPACES BEHIND PLUMBING FIXTURES - ABS BRACKETS AND U-BOLTS. SECURE THE TWO-PIECE BRACKETS TO CAST IRON STACKS, U-BOLTS SHALL BE SIZED TO BEAR ON THE PIPE. BRACKETS SHALL BE P & M BRACKET CO., OR EQUAL.

22 GAUGE GALYANIZED SHEET METAL HALF-ROUND SADDLES TO PROTECT INSULATION.

I. AT HORIZONTAL PIPING ALONG WALL - FEE & MASON #146 I-HOOKS.

3.1 FIXTURE SUPPORTS AND CONNECTIONS:

A. GENERAL - ALL FIXTURES INCLUDING LAVATORIES, URINALS, WATER CLOSETS, ELECTRIC WATER COOLERS, ETC., MUST BE SECURELY FASTENED TO THE WALLS OR FLOOR.

B. WALL MOUNTED FIXTURES - SUPPORT ALL WALL MOUNTED FIXTURES WITH 3/16" THICK X 3-1/2" HIGH PLATES FULL LENGTH OF FIXTURE, MOUNTED BEHIND WALL. WHERE FIXTURES ARE BACK TO BACK ON A SOLID WALL, MOUNT WITH BOLTS FROM FIXTURE HANGER TO FIXTURE HANGER. DO NOT USE TOGGLE BOLTS OR EXPANSION BOLTS EXCEPT AS NOTED. WHERE FIXTURES ARE MOUNTED ON SOLID WALLS FINISHED BOTH SIDES, INSTALL FIXTURE WITH PLATED TOGGLE BOLTS. WHERE FIXTURES ARE MOUNTED ON WELDED STUDS, EMPLOY 3/16" STEEL HANGER PLATES PLACED ON WALL BEFORE LATHING. PLATES SHALL BE 16" X 8" MINIMUM SIZE, AND SHALL HAVE WELDED-ON BOLT STUDS. WHERE FIXTURES ARE MOUNTED ON WOOD OR LIGHT GAUGE STEEL STUDS, EMPLOY PRESSURE TREATED BLOCKING OF 2 X 10 NOMINAL SIZE WELL SECURED INTO STUD LINE WITH NON-CORROSIVE FASTENERS. FIT BEHIND STUD FLANGES, USING ESPECIALLY PLACED STUDS AS REQUIRED.

C. FLOOR CONNECTIONS - PROVIDE FLOOR FLANGES, SCREWED OR CAULKED TO DRAINAGE PIPE. BOLT THE CONNECTION AND MAKE TIGHT TO FIXTURE WITH SETTING RING OR POLYETHYLENE GASKET FLANGE.

D. WASTE ARMS TO FIXTURES - AS SPECIFIED HEREINBEFORE, WHERE COPPER OR BRASS PIPE IS SPECIFIED, ALL JOINTS DOWNSTREAM FROM TRAP SHALL HAVE SOLDERED JOINTS.

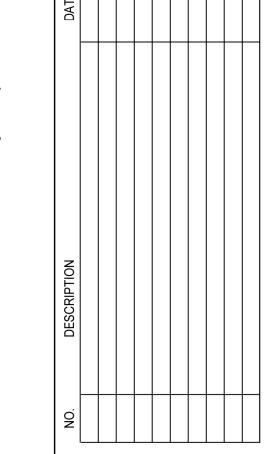
E. STERILIZATION - THE COMPLETED SUPPLY LINE SHALL BE STERILIZED AS REQUIRED BY STATE LAW BEFORE ACCEPTANCE FOR DOMESTIC OPERATION.

WINTON ENGINEERING, PA ROBIN WINTON, PE 2207 WOODBINE DR "ALLAHASSEE, FL 323Ø9 850 567-2019 FL # 56206

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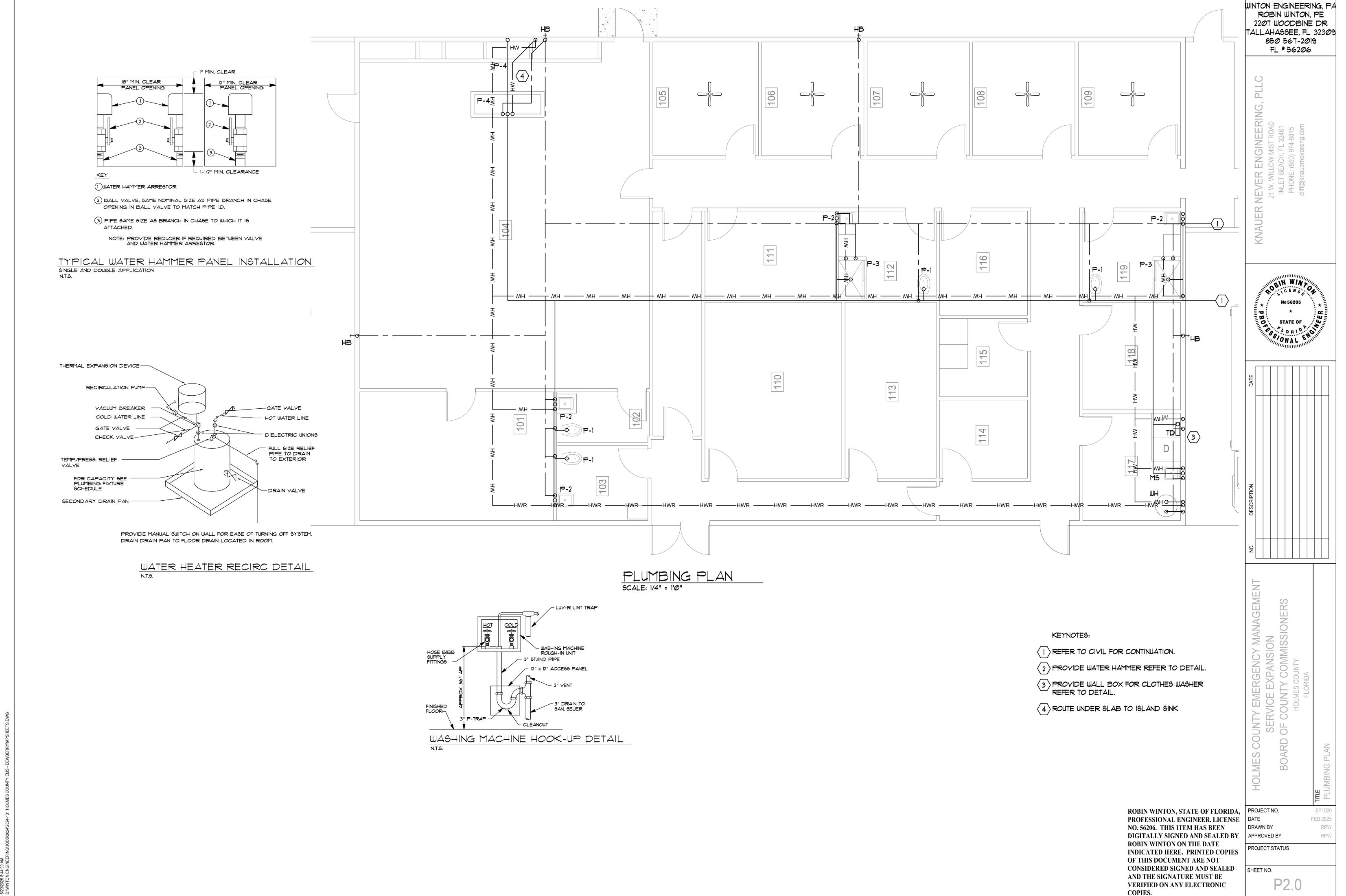
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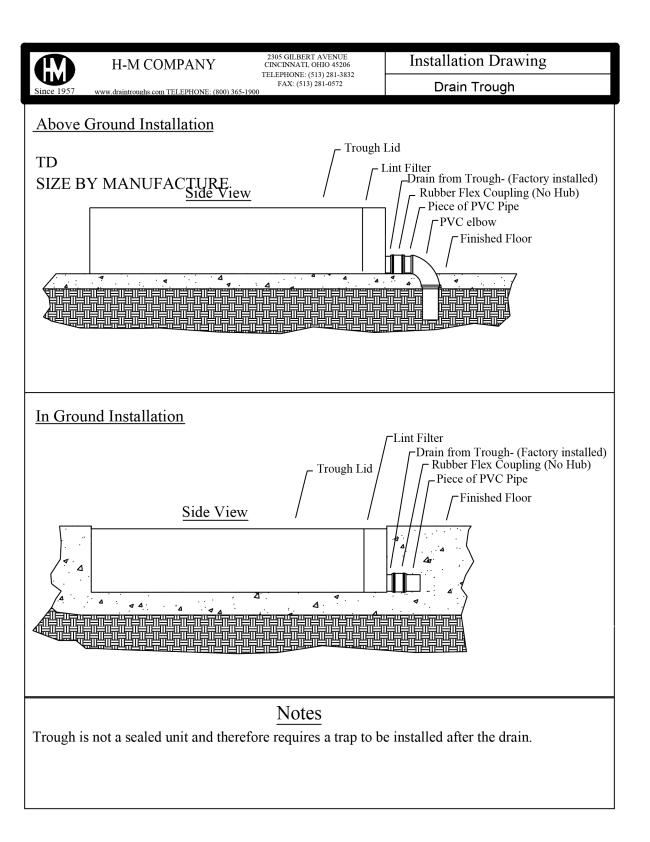
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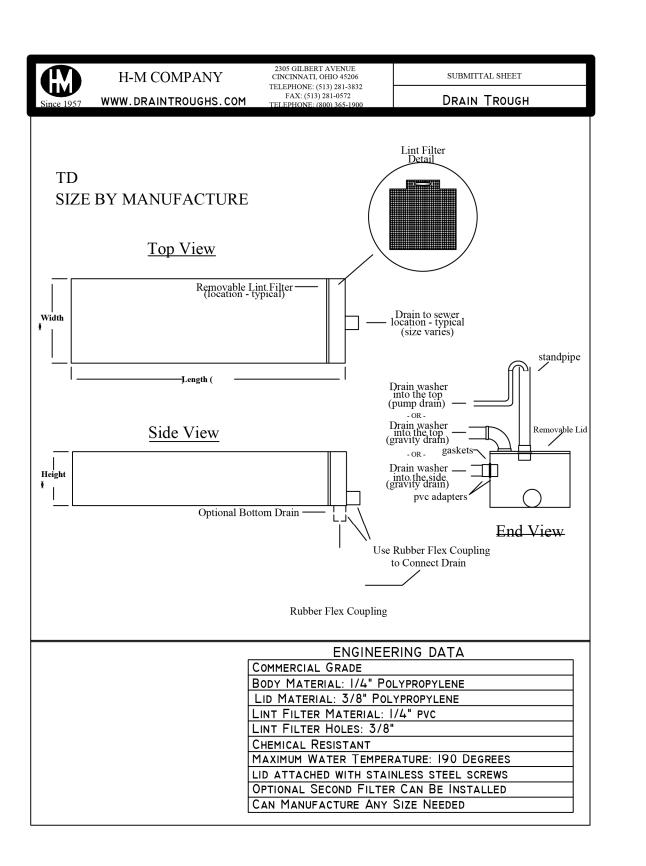
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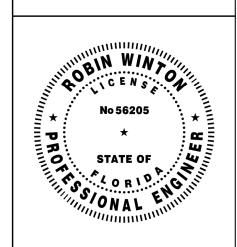


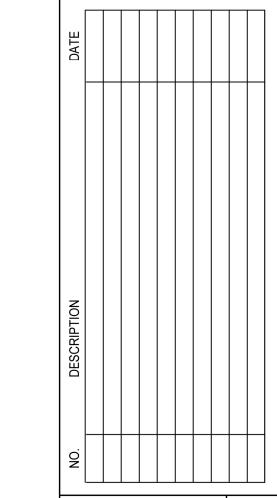




FIXTURE NO.	FIXTURE	DESCRIPTION	C.W.	H.W.	WASTE	MOUNTING	SUPPLY BY	INSTALL BY
WH>	ELECTRIC WATER HEATER	AO SMITH DEL 50 50 GALLON 9 KW 208/3 WATER HEATER, CONNECT WITH DIELECTRIC UNIONS. PROVIDE HEAT TRAP OR EXPANSION TANK PER CODE. UNIT TO HAVE BUILT IN RE-CIRCULATION PUMP	3/4"	3/4"		HUNG EXTERIOR WALL	PC	P.C.
P-1	FLUSH VALVE WATER CLOSET	KOHLER K-4368 TOP SPUD WATER CLOSET, SLOAN ROYAL II 111-1.6 FLUSHOMETER. WITH A K-4670 LUSTRA OPEN FRONT SEAT, PROVIDE WALL PIPE COVER PLATE	1/2"		3"		P.C.	P.C.
P-2	ADA WALL HUNG SINK	ZURN Z5340 WAL HUNG LAV WITH A KOHLER K-23472-4K FAUCET MATT BLACK PROVIDE WALL HANGER KOHLER K-2032 PROVIDE AND INSTALL UNIVERSAL THERMOSTATIC MIXING VAVLE SET AT 110 DEGREE F OR PER LOCAL CODE.	1/2"	1/2"	2"	WALL WITH HANGER	PC	P.C.
2-3	ADA SHOWER	KOHLER HONESTY RITE TEMPERATURE SHOWER TRIM KIT K-T99763-4G-BL, K-11748-K RITE TEMP VALVE & CARTRIDGE KITS, SHOWER ARM AND FLANGE, SHOWER HEAD, CONTROL HANDLES, FINISH BY ARCHITECT, FLOOR DRAIN TO BE SIOUX CHIEF MODEL 827-B WITH STRAINER FINISH BY ARCHITECT APPROVED BY SHOWER PAN MANUFACTURE, FLOOR DRAIN FOR IN SHOWER. ADD A KOHLER K-8487 HANDSHOWER FIT, MINIMUM OF 60" HOSE MOUNT ADA HEIGHT MOUNT CONTROLS PER FBC-A 608.5.1	1/2"	1/2"	3"	ADA	P.C.	P.C.
P-4	KITCHEN SINK	VERSE™ 33" TOP-MOUNT DOUBLE-BOWL KITCHEN SINK, K-5267-3, 36" MINIMUM BASE CABINET WIDTH, DOUBLE-EQUAL BOWLS, 9" (229 MM) DEPTH PROVIDES GENEROUS WORKSPACE, THREE FAUCET HOLES, PREMIUM 18-GAUGE STAINLESS STEEL, TOP-MOUNT, K-8813 STAINLESS STEEL SINK DRAIN AND STRAINER WITH TAILPIECE, VENZA® WIDESPREAD BATHROOM SINK FAUCET, 1.2 GPM,K-28125-4, TWO LEVER HANDLES OFFER SEPARATE CONTROL OF HOT AND COLD WATER, 5-1/2" (140 MM) SPOUT REACH, 1.2 GPM (4.5 LPM) MAXIMUM FLOW RATE AT 60 PSI (4.14 BAR), KOHLER® CERAMIC DISC	1/2"	1/2"	3"		P.C.	P.C.
DF	DRINKING FOUNTAIN	ELKAY EZH20 LZSTL8WSSP BOTTLE FILLING STATION WITH BILEVEL ADA COMPLIANT FOUNTAINS. ANTIMICROBIAL, GREEN TICKER™, HANDS FREE, ELKAY CANE APRON LAMINAR FLOW, REAL DRAIN. 115/1, 370 WATTS, 4.2 FLA, 170 LBS, ADA COMPLIANCE	1/2"		2"	WALL	PC	EXTG
cw	CLOTHES WASHER	SPEED QUEEN, FF7 WHITE FRONT LOAD WASHER, 1 HP VARIABLE SPEED MOTOR, 120/1 OWNER PROVIDE AND CONTRACTOR INSTALLED	3/4"	3/4"	3"	FLOOR	OWNER	P.C.
DR	ELECTRIC TUMBLER DRYER	SPEED QUEEN DF7 WHITE ELECTRIC DRYER, 5,350 WATTS 220 CFM 1/3 HP MOTOR 120/1. OWNER PROVIDE AND CONTRACTOR INSTALLED				FLOOR	OWNER	P.C.
MS	MOP/UTILITY SINK	14CP UTILATUB® COMBO LAUNDRY/UTILITY TUB, ONE PIECE MOLDED CONSTRUCTION, USING MUSTEE'S CO-POLYPURE™ RESIN, 20 GALLON CAPACITY, EXTRA DEEP 13" TUB WITH SMOOTH SURFACE, 6" SWING SPOUT FAUCET WITH AERATOR AND HOSE END, TWO 20" FLEXIBLE SUPPLY LINES AND SEALANT TAPE, 1-1/2" PVC P-TRAP WITH 12" TAILPIECE, DRAIN STOPPER	1/2"	1/2"	1 1/2"	FLOOR	PC	EXTG
FS	FLOOR SINK	PROFLO CAST IRON SINK PF906K			3"	FLOOR	PC	EXTG
FD	FLOOR DRAIN	JOSAM MODEL #30000-A WITH STRAINER AND TRAP PRIMER. FLOOR DRAIN FOR WATER HEATER OVER FLOW. PROVIDE TRAP PRIMER FROM WATER SERVING WATER HEATER.			3"	FLOOR	PC	EXTG
НВ	HOSE BIBB	JR SMITH 5509QT-R BRONZE NICKEL PLATED QUARTER TURN NON-FREEZE HYDRANT WITH HOSE CONNECTION, INTEGRAL VACUUM BREAKER, "T" HANDLE KEY, AND STAINLESS STEEL BOX WITH FULL 180° COVER OPENING. PROVIDE SHUT OFF VALVE BEFORE EACH HOSE BIBB PER IPC	3/4"			WALL	PC	P.C.
HA	WATER HAMMER ARRESTOR	SIOUX CHIEF MINIRESTER, COPPER, 250 PSI WORKING PRESSURE NSF LISTED	3/4"	3/4"		PIPE	PC	P.C.
BFP	BACKFLOW PREVENTER	BACKFLOW PREVENTER(S) WATTS SD-3-MF AT CARB. BEVERAGE MACHINE. WATTS SD-3-MF AT ICE MACHINE, OR AS APPROVED BY LOCAL CODE.					P.C.	P.C.
TP	TRAP PRIMER	LEAD FREE PRIME PRO PRO1-500 TRAP PRIMER OR EQUAL. INCORPORATE A BUILT IN VACUUM BREAKER AND INTERNAL BACKFLOW.	1/2"				P.C.	P.C.
VB	VACUUM BREAKER	WATTS N9 3/8" FEM. x 3/8" FEM. AT SPRAY RINSE ASSEMBLY					P.C.	P.C.
RPZ	REDUCED PRESSURE ZONE DEVICE	WATTS 009M3QT REDUCED PRESSURE ZONE ASSEMBLY. CONTAINMENT AT THE SERVICE LINE ENTRANCE.					P.C.	P.C.
co	FLOOR CLEAN OUT	PROVIDE IF/AS REQUIRED: J. R. SMITH FIG. 4151 C.I. CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND NICKEL BRONZE TOP RECESSED FOR TILE WITH SECURING SCREW,			3"	FLOOR	P.C.	P.C.
vco	WALL CLEAN OUT	SPEEDI-SET OUTLET CONNECTION. CLEANOUTS MUST BE ACCESSIBLE FROM THE SPACE.			3"	WALL	P.C.	P.C.

WINTON ENGINEERING, PA ROBIN WINTON, PE 2207 WOODBINE DR TALLAHASSEE, FL 32309 850 567-2019 FL # 562*0*6





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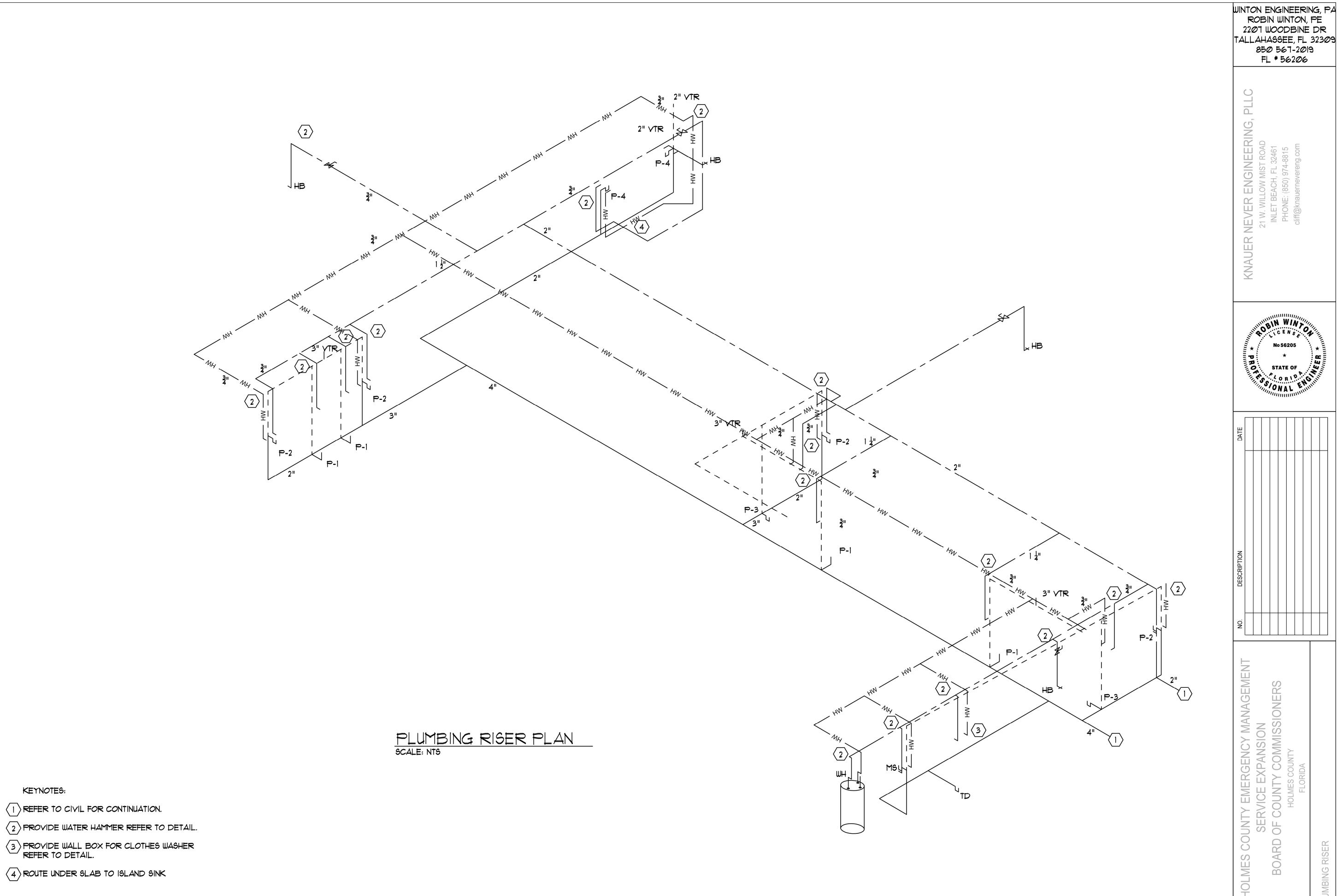
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PROJECT STATUS

P4.0

FEB 2025

KEYNOTES:

ELECTRICAL SPECIFICATIONS

BASIC ELECTRICAL MATERIALS AND METHODS

- 1. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO
- AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE. IDENTIFICATION DEVICE COLORS: USE THOSE PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.
- COLORED ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES: SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK (25 MM WIDE BY 0.08 MM THICK).
- TAPE MARKERS FOR CONDUCTORS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
- ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH (1.6-MM) MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ. IN. (129 SQ. CM) AND 1/8-INCH (3.2-MM) MINIMUM THICKNESS FOR LARGER
- SIZES. ENGRAVED LEGEND IN BLACK LETTERS ON WHITE BACKGROUND. 6. PULL STRINGS: PROVIDE PULL STRINGS IN ALL SPARE OR EMPTY CONDUITS AND RACEWAYS.
- COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
- CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED. SLEEVE ALL CABLE PENETRATIONS OF WALLS. SEAL ALL CONDUIT PENETRATIONS.
- REPAIR, REFINISH AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES.
- ALL WORK SHALL COMPLY WITH CODES AND STANDARDS LISTED ON PLANS. WITHIN 30 DAYS OF COMMENCEMENT, CONTRACTOR SHALL ARRANGE AND ATTEND A MEETING ON-SITE WITH A REPRESENTATIVE OF THE UTILITY TO COORDINATE REQUIREMENTS AND SCHEDULE FOR INSTALLATION OF NEW SERVICE.

GROUNDING AND BONDING

- 1. EQUIPMENT GROUNDING CONDUCTORS: COMPLY WITH NFPA 70. ARTICLE 250. FOR TYPES, SIZES, AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UNLESS SPECIFIC TYPES, LARGER SIZES, OR MORE CONDUCTORS THAN REQUIRED BY NFPA 70 ARE INDICATED.
- 2. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.
- ALL GROUNDING CONDUCTORS SHALL BE COPPER; COMPLY WITH DIVISION 16 SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE. EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED
- INSULATION.
- GROUNDING ELECTRODE CONDUCTORS: STRANDED COPPER CABLE. UNDERGROUND CONDUCTORS: BARE, TINNED, STRANDED, UNLESS OTHERWISE
- INDICATED. CONNECTORS: COMPLY WITH IEEE 837 AND UL 467; LISTED FOR USE FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND CONNECTED
- 8. IN RACEWAYS, USE INSULATED EQUIPMENT GROUNDING CONDUCTORS. EXOTHERMIC-WELDED CONNECTIONS: USE FOR CONNECTIONS TO STRUCTURAL STEEL AND FOR UNDERGROUND CONNECTIONS.
- 10. GROUNDING CONDUCTORS: ROUTE ALONG SHORTEST AND STRAIGHTEST PATHS POSSIBLE, UNLESS OTHERWISE INDICATED. AVOID OBSTRUCTING ACCESS OR PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, IMPACT, OR
- BONDING STRAPS AND JUMPERS: INSTALL SO VIBRATION BY EQUIPMENT MOUNTED ON VIBRATION ISOLATION HANGERS OR SUPPORTS IS NOT TRANSMITTED TO RIGIDLY MOUNTED EQUIPMENT

CONDUCTORS AND CABLES

- CONDUCTOR MATERIAL: COPPER COMPLYING WITH NEMA WC 5 OR 7; SOLID CONDUCTOR FOR NO. 10 AWG AND SMALLER, STRANDED FOR NO. 8 AWG AND
- 2. CONDUCTOR INSULATION TYPES: TYPE THHN-THWN COMPLYING WITH NEMA WC 5
- TYPE MC CABLE SHALL BE PERMITTED FOR 20A BRANCH CIRCUITS IN INTERIOR CONCEALED LOCATIONS, WHERE PERMITTED BY CODE.
- BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY; TYPE MC CABLE (AS PERMITTED
- CONCEAL CABLES AND RACEWAYS IN FINISHED WALLS, CEILINGS, AND FLOORS. USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR
- INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES. 7. IN EXPOSED LOCATIONS, ALL CONDUCTORS AND CABLES SHALL BE INSTALLED IN
- 8. MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION
- RATINGS THAN UNSPLICED CONDUCTORS. 9. WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.

RACEWAYS AND BOXES

- 1. PERMANENENTLY LABEL ALL RACEWAYS AND JUNCTION/PULL BOX COVERS TO INDICATE PANEL/CIRCUIT NUMBERS CONTAINED. 2. UNLESS OTHERWISE NOTED, PROVIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS,
- MINIMUM RACEWAY SIZE: 1/2" TRADE SIZE. KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING.

NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.

- PROTECT STUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE
- MAKE BENDS AND OFFSETS SO ID IS NOT REDUCED. KEEP LEGS OF BENDS IN SAME PLANE AND KEEP STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.
- CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS. INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
- INSTALL RACEWAY SEALING FITTINGS AT SUITABLE, APPROVED, AND ACCESSIBLE LOCATIONS AND FILL THEM WITH UL-LISTED SEALING COMPOUND. INSTALL RACEWAY SEALING FITTINGS WHERE CONDUITS PASS FROM WARM TO COLD LOCATIONS, SUCH AS BOUNDARIES OF REFRIGERATED SPACES AND WHERE OTHERWISE REQUIRED BY NFPA 70.
- 10. FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMIRECESSED LIGHTING FIXTURES; FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT: AND FOR ALL MOTORS. USE LFMC IN DAMP OR WET LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

WIRING DEVICES

- 1. STRAIGHT-BLADE-TYPE RECEPTACLES: COMPLY WITH NEMA WD 1, NEMA WD 6. DSCC W-C-596G, AND UL 498. STRAIGHT-BLADE AND LOCKING RECEPTACLES: HEAVY-DUTY GRADE.
- GFCI RECEPTACLES: STRAIGHT BLADE, HEAVY-DUTY GRADE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLE; COMPLYING WITH UL 498 AND
- 3. SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY WITH DSCC W-C-896F AND UL
- 4. SNAP SWITCHES: HEAVY-DUTY GRADE, QUIET TYPE. 5. DIMMERS SHALL BE SLIDE-TYPE, WITH PRESET. DIMMERS SHALL BE RATED FOR THE LOAD TYPE CONTROLLED (E.G., INCANDESCENT, LED, FLUORESCENT). DIMMERS SHALL BE RATED FOR 500W. MINIMUM: DERATE, AS PER MANUFACTURER'S
- RECOMMENDATIONS, FOR GANG INSTALLATION. 6. DEVICE & COVERPLATE FINISH: MATCH EXISTING, UNLESS OTHERWISE INDICATED OR
- REQUIRED BY NFPA 70. INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING
- ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
- REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING. 10. AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN
- ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS. 11. TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS
- ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. 12. ALL 120V 15A/20A RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE.

PACKAGED ENGINE GENERATORS

- 1. MANUFACTURERS: GENERATOR SHALL BE MANUFACTURED BY CUMMINS/ONAN. BALDOR, KOHLOR OR CATERPILLAR/OLYMPIAN. OTHER MANUFACTURERS MUST BE APPROVED BY THE ENGINEER PRIOR TO SUBMITTING A BID.
- 2. RATINGS: 120/208V, THREE-PHASE; KW/KVA STANDBY POWER RATING AS NOTED ON PLANS/RISER. 3. ENCLOSURES: WEATHERPROOF, SOUND-ATTENUATING ENCLOSURE, RATED FOR
- 150MPH WIND VELOCITY. 4. ENGINE: 4-CYCLE INDUSTRIAL WATER-COOLED, DIESEL FUELED, WITH ELECTRONIC CONTROL, CERTIFIED TO US EPA SI STATIONARY EMISSION REGULATION 40 CFR.
- 5. ALTERNATOR: CLASS H INSULATION, 150 C TEMPERATURE RISE, 1% VOLTAGE REGULATION (NO LOAD TO FULL LOAD), LESS THAN 5% THD. WITH PERMANENT MAGNET EXCITATION.
- 6. LISTINGS AND STANDARDS: UL LISTED TO UL 2200. DESIGNED TO ALLOW FOR INSTALLED COMPLIANCE WITH REQUIREMENTS OF NFPA 110 LEVEL 1.
- MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER. 100% RATED. GENERATOR-MOUNTED CONTROL PANEL: DESIGNED AND BUILT BY THE SYSTEM MANUFACTURER AND INCORPORATING 100% SOLID-STATE CIRCUITRY, SEALED DUST-TIGHT, WATERTIGHT MODULAR COMPONENTS AND INSTRUMENTATION. THE PANEL SHALL BE SHOCK MOUNTED TO THE GENERATOR.
- MOUNTING: THE ENGINE-GENERATOR SET SHALL BE MOUNTED ON A STRUCTURAL BASE SUPPLIED BY THE MANUFACTURER.
- 10. CRITICAL GRADE SILENCER MUST BE ENCLOSED WITHIN THE UNIT IN A SEPARATE DISCHARGE BOX WITH THERMAL GRADE WRAPPING.
- 11. UNIT SHALL BE SUPPLIED WITH A LEAD-ACID STARTING BATTERY. WITH A BATTERY CHARGER. INSTALLED INSIDE UNIT ENCLOSURE. 12. PROTECTIVE DEVICES: SAFETY SHUTOFFS FOR HIGH WATER TEMPERATURE, LOW OIL
- PRESSURE, ELECTRICAL OVER-SPEED, AND ENGINE OVER-CRANK SHALL BE PROVIDED 13. AN ENGINE-MOUNTED THERMAL CIRCULATION WATER HEATER INCORPORATING AN
- ADJUSTABLE THERMOSTATIC SWITCH SHALL BE FURNISHED TO MAINTAIN ENGINE JACKET WATER TO 90°F. 14. INSTALLATION SHALL INCLUDE STARTUP AND LOAD-BANK TESTING BY
- MANUFACTURER-CERTIFIED INSTALLER. 15. WARRANTY: MANUFACTURER'S 5-YEAR EXTENDED WARRANTY

ENCLOSED SWITCHES

- ENCLOSED SWITCHES SHALL BE MANUFACTURED BY SQUARE-D. CUTLER-HAMMER.
- GE. OR SIEMENS. ALL ENCLOSED SWITCHES SHALL BE LOCKABLE.
- MOUNT INDIVIDUAL WALL-MOUNTING SWITCHES WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED. ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED;
- ENCLOSURES SHALL BE NEMA-3R UNLESS NOTED OTHERWISE. MOTOR STARTERS SHALL BE NEMA-RATED, WITH OVERLOADS SIZED PER LOAD. COORDINATE COIL VOLTAGE WITH CONTROLS.

<u>PANELBOARDS</u>

- 1. MANUFACTURERS: PANELBOARDS SHALL BE MANUFACTURED BY SQUARE-D.
- CUTLER-HAMMER, GE, OR SIEMENS. ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS. NEMA PB 1, TYPE 1. PHASE AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
- CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL. SERVICE EQUIPMENT LABEL: UL LABELED FOR USE AS SERVICE EQUIPMENT FOR PANELBOARDS WITH MAIN SERVICE DISCONNECT SWITCHES. FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY
- APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES. PANELBOARD SHORT-CIRCUIT RATING: SERIES RATED TO INTERRUPT SYMMETRICAL
- SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS. MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER. MOLDED-CASE CIRCUIT BREAKER: UL 489, WITH INTERRUPTING CAPACITY TO
- MEET AVAILABLE FAULT CURRENTS. 10. MOUNT TOP OF TRIM 74 INCHES (1880 MM) ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED. MOUNT PLUMB AND RIGID WITHOUT DISTORTION OF BOX. MOUNT RECESSED
- PANELBOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL FINISH. INSTALL FILLER PLATES IN UNUSED SPACES.
- PROVIDE NEW TYPE-WRITTEN PANEL DIRECTORIES, SHOWING ALL EXISTING AND NEW CIRCUITS. PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH ENGRAVED METAL OR
- LAMINATED-PLASTIC NAMEPLATE MOUNTED WITH CORROSION-RESISTANT SCREWS. WHERE BREAKER IS SERVING HARD-WIRED APPLIANCE WITHOUT A SEPARATE DISCONNECT, PROVIDE A PERMANENTLY INSTALLED PROVISION TO LOCK THE BREAKER IN THE "OFF" POSITION.

<u>LIGHTING</u>

- LIGHTING FIXTURES: PER LIGHTING FIXTURE SCHEDULE.
- WHERE DIMMING SWITCH IS INDICATED, PROVIDE LOW-VOLTAGE CABLING AS NEEDED FOR LOAD CONTROLLED.
- WHERE EXIT SIGNS ARE USED, THEY SHALL BE LED-TYPE. FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL

HARDWARE AS NEEDED FOR A COMPLETE FUNCTIONAL INSTALLATION.

- LAMPS IN EACH FIXTURE. PROVIDE BLOCKING, BACKBOXES, SUPPORTS, STEMS, COUPLINIGS, AND OTHER
- FOR EMERGENCY LIGHTING, PROVIDE UNSWITCHED NORMAL POWER CONDUCTOR AS INDICATED ON THE PLANS. OUTDOOR AREA LIGHTING POLES SHALL BE DIRECT-BURIED TYPE, RATED FOR 130MPH MINIMUM SUSTAINED WIND SPEED (1.3 GUST FACTOR).

ENCLOSED SAFETY SWITCH NON-FUSED, RATING AND CIRCUITING AS INDICATED ON THE PLANS, FIELD-LOCATE TO ASSURE 36" FRONT CLEARANCE.

ENCLOSED SAFETY SWITCH FUSED, RATING AND CIRCUITING AS INDICATED ON THE PLANS

ELECTRICAL LEGEND

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ELECTRICAL PANEL. SEE RISER & PANEL SCHEDULES.

CIRCUIT CONDUCTORS IN CONDUIT OR CABLE, MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. 120V CIRCUIT HOMERUNS LONGER THAN 100FT SHALL BE #10 AWG, MINIMUM. PROVIDE DEDICATED GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. MC CABLE ALLOWED FOR 20A BRANCH CIRCUITS. AS DESCRIBED IN SPECIFICATIONS.

CONDUCTORS IN CONDUIT, CONCEALED IN WALLS, CEILING, OR BELOW GRADE. HOMERUN TO PANEL INDICATED.

CEILING-MOUNTED EXHAUST FAN. COORDINATE WITH MECHANICAL.

ELECTRIC MOTOR.

(EF)

M

ATS

GAP

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FACP

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● EPO

AUTOMATIC TRANSFER SWITCH.

GENERATOR ANNUNCIATOR PANEL. EMERGENCY POWER OFF PUSH BUTTON. PUSHBUTTON CONTROL.

FIRE ALARM SYSTEM DUCT SMOKE DETECTOR, WITH REMOTE INDICATOR AND SHUTDOWN RELAY. FIELD COORDINATE LOCATION

WITH MECHANICAL INSTALLER. FIRE ALARM SYSTEM SMOKE DETECTOR. "CO" INDICATES INTEGRAL CARBON MONOXIDE DETECTION.

FIRE ALARM SYSTEM MANUAL PULL STATION MOUNT AT 48" A.F.F. FIRE ALARM SYSTEM HORN/STROBE DEVICE. MOUNT 84" A.F.F. 75/110 CANDELA FIELD-SELECTABLE, UNLESS NOTED OTHERWISE.

75/110 CANDELA FIELD-SELECTABLE, UNLESS NOTED OTHERWISE. FIRE ALARM CONTROL PANEL

FIRE ALARM SYSTEM STROBE DEVICE. MOUNT 84" A.F.F.

FIRE ALARM ANNUNCIATOR PANEL

COMMUNICATIONS OUTLET, 18" A.F.F. PROVIDE SINGLE-GANG BOX, WITH 3/4"C. STUBBED INTO ACCESSIBLE CEILING. VERIFY CABLING REQUIREMENTS WITH DEVELOPER. COMMUNICATIONS OUTLET, MOUNT AT 44" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE SINGLE-GANG BOX, WITH 3/4" C. STUBBED INTO ACCESSIBLE CEILING. VERIFY CABLING REQUIREMENTS WITH DEVELOPER.

COMMUNICATIONS OUTLET SIMILAR TO ABOVE MOUNTED UP HIGH (6'-6"AFF) FOR TELEVISIONS. PROVIDE DOUBLE-GANG BOX FOR ALL TV LOCATIONS. COORDINATE EACH LOCATION WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN. MOUNT ADJACENT RECEPTACLE AT SAME HEIGHT.

<u>ABBREVIATIONS</u>

AFF CONDUIT.

ABOVE FINISHED FLOOR.

GROUND.

WEATHERPROOF.

FIRE ALARM

James M. Lamb, State of Florida, Professional Engineer, License No. 52688. This item has been digitally signed and sealed by James M. Lamb on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

- 1. THE CONTRACTOR SHALL FURNISH ALL LABOR AND EQUIPMENT FOR A COMPLETE NEW ADDRESSABLE FIRE ALARM SYSTEM AND SHALL POSSESS THE APPROPRIATE
- THE FIRE ALARM SYSTEM SHALL BE INSTALLED, INSPECTED, TESTED AND CERTIFIED PER APPROPRIATE NFPA 12, 12A, 70, 72, 72E, 90A AND 101. ANY OTHER APPLICABLE CODE SHALL APPLY TO MEET STATE OF FLORIDA AND FIRE MARSHAL REQUIREMENTS. THE EQUIPMENT SHALL BE APPROVED BY UNDERWRITERS LABORATORIES, INC., SHALL COMPLY WITH NFPA CODES AND REGULATIONS AND
- MEET REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. 3. IN ADDITION TO DEVICES SHOWN ON THE PLAN, THE CONTRACTOR SHALL PROVIDE ALL CARDS, MODULES, POWER SUPPLIES, AMPLIFIERS, CABLING, AND OTHER EQUIPMENT AS MAY BE NECESSARY TO SERVE ALL DEVICES SHOWN.

EC OR E.F. LICENSE AS REQUIRED BY THE STATE OF FLORIDA.

- THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR A PERIOD OF ONE YEAR FOR EQUIPMENT, MATERIALS AND WORKMANSHIP OF THE MODIFICATIONS OF THE SYSTEM, AS SHOWN ON THESE PLANS.
- 5. ALL CIRCUITS SHALL BE CLASS B. PROVIDE SURGE SUPPRESSION ON ALL CIRCUITS ENTERING THE BUILDING. CONTRACTOR SHALL TEST AND CERTIFY SYSTEM PRIOR TO COMPLETION OF THE
- THE FIRE ALARM CONTRACTOR SHALL APPLY FOR, AND OBTAIN, A SEPARATE PERMIT FOR ALL FIRE ALARM WORK. PROVIDE ALL SHOP DRAWINGS REQUIRED FOR
- PERMITTING, INCLUDING: A. PLANS SHOWING NEW ALARM DEVICE, MODULE AND PANEL LAYOUT, SPECIFICATIONS AND INFORMATION (INCLUDING CANDELA USED IN THE SCOPE OF WORK):
- B. THE SPECIFICATIONS SHOULD CLEARLY NOTE OR DEMONSTRATE COMPATIBILITY WITH ANY EXISTING COMPONENTS AND COMPLIANCE WITH THE SYNCHRONIZATION REQUIREMENT OF NFPA 72;

C. A RISER DIAGRAM SHOWING DEVICES AND WIRING NOTES OR SCHEDULE; D. POWER CALCULATIONS WITH STANDBY POWER VALUES.

WALL-MOUNTED LIGHTING FIXTURE LENGTH AS INDICATED. STRIP LIGHT.

RECESSED CAN LIGHTING FIXTURE.

WALL-MOUNTED LIGHTING FIXTURE.

WALL PACK, EMERGENCY EGRESS FIXTURE

DECORATIVE PENDANT TYPE FIXTURE.

DECORATIVE PENDANT TYPE FIXTURE.

SMALL DECORATIVE PENDANT GROUND MOUNTED FLOOD LIGHT.

POLE-MOUNTED AREA LIGHT. CEILING FAN WITH LIGHT KIT. PROVIDE FAN-RATED BOX.

DOUBLE-HEADED FLOOD LIGHT.

LED EXIT SIGN WITH INTEGRAL BATTERY AND INVERTER. PROVIDE UNSWITCHED HOT

LED DOUBLE FACE EXIT SIGN WITH INTEGRAL BATTERY AND INVERTER. PROVIDE UNSWITCHED HOT CONDUCTOR.

WALL-MOUNTED EMERGENCY LIGHTING FIXTURE, WITH INTEGRAL BATTERY. PROVIDE UNSWITCHED HOT CONDUCTOR.

120V/20A QUIET-TYPE SNAP SWITCH. SWITCHES SHALL BE MOUNTED 44" A.F.F. UNLESS NOTED OTHERWISE. "3" INDICATES 3-WAY SWITCH, "4" INDICATES 4-WAY SWITCH. "D" INDICATES DIMMING SWITCH; COORDINATE CHARACTERISTICS WITH LOAD SERVED.

WALL-SWITCH WITH OCCUPANCY SENSOR; MOUNT 44" A.F.F., UNLESS NOTED OTHERWISE. WATTSTOPPER #PW-301, OR APPROVED EQUAL.

ROOM OCCUPANCY SENSOR (LOW-VOLTAGE). UNLESS NOTED OTHERWISE, CEILING MOUNTED WATTSTOPPER #DT-300, OR APPROVED EQUAL. PROVIDE ROOM CONTROLLER(S) (#BZ-250) AS REQUIRED.

2 CHANNEL 24 HOUR/7 DAY PROGRAMMABLE ASTRONOMICAL TIME CLOCK (WITH BATTERY BACKUP) AS MANUFACTURED BY TORK OR APPROVED EQUAL. PROVIDE CONTACTOR(S) AS REQUIRED TO SERVE ALL CIRCUITS SHOWN.

"USB" INDICATES INTEGRAL DUAL USB CHARGING PORTS. 20A/120V DUPLEX RECEPTACLE. MOUNT AT 44" A.F.F., UNLESS NOTED OTHERWISE.

20A/120V DUPLEX RECEPTACLE. MOUNT AT 18" A.F.F., UNLESS NOTED OTHERWISE.

120V/20A QUAD RECEPTACLE. NEW RECEPTACLES SHALL BE MOUNTED 18" A.F.F., UNLESS NOTED OTHERWISE. 120V/20A DUPLEX RECEPTACLE. WITH INTEGRAL GFI PROTECTION. RECEPTACLES SHALL BE MOUNTED 18" A.F.F., UNLESS NOTED OTHERWISE.

"WP" INDICATES CAST-ALUMINUM WEATHERPROOF IN USE COVER. 120V/20A DUPLEX RECEPTACLE, WITH INTEGRAL GFI PROTECTION. RECEPTACLES SHALL BE MOUNTED 44" A.F.F. UNLESS NOTED OTHERWISE. MULTI POLE SPECIALTY RECEPTACLE. ALL SPECIAL OUTLET TYPES

SHALL BE VERIFIED WITH EQUIPMENT PRIOR TO ORDERING.

PROVIDE JUNCTION.

CODES AND STANDARDS

NFPA 70 NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION NFPA 72 NATIONAL FIRE ALARM CODE, 2019 EDITION

FLORIDA FIRE PREVENTION CODE, EIGHTH EDITION.

FLORIDA BUILDING CODE, EIGHTH EDITION.

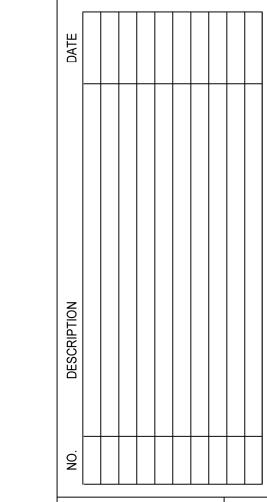
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Digitally signed by James M Lamb DN: C=US, O=Florida, dnQualifier= A01410D000001866BA7000700092C 9F, CN=James M Lamb Reason: I am approving this document Date: 2025.05.23 14:04:40-04'00' Foxit PDF Editor Version: 2025.1.0



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PROJECT STATUS **CONSTRUCTION DOCUMENTS**

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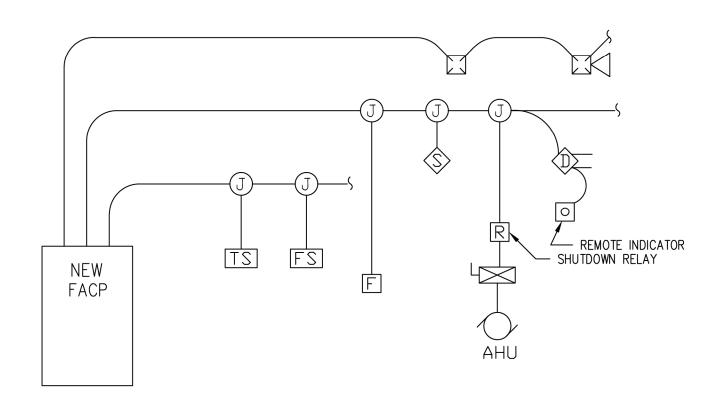
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MAY 2025

- AUTOMATIC TRANSFER SWITCH (ATS) 1. MANUFACTURERS: THE SUPPLIER OF THE ATS SHALL BE THE SAME AS THAT OF
- THE ENGINE-GENERATOR SET. BASIS OF DESIGN IS ASCO SERIES 300. 2. ATS SHALL BE 3-POLE, SOLID NEUTRAL, OPEN-TRANSITION (BREAK-BEFORE-MAKE), 208V, CURRENT RATING AS NOTED ON THE PLAN/RISER. 3. ATS CURRENT RATING SHALL BE A CONTINUOUS RATING WHEN THE SWITCH IS
- INSTALLED IN AN ENCLOSURE, AND SHALL CONFORM TO NEMA TEMPERATURE RISE 4. ATS SHALL BE OF DOUBLE THROW CONSTRUCTION OPERATED BY A RELIABLE SOLENOID DRIVEN MECHANISM. THERE SHALL BE A DIRECT MECHANICAL COUPLING
- TO FACILITATE TRANSFER IN 6 CYCLES OR LESS. 5. ATS SHALL INCLUDE AN ELECTRONIC CONTROL PANEL, WITH FIELD-ADJUSTABLE SETTINGS, AND PROGRAMMABLE EXCERCISER. 6. ATS SHALL INCLUDE ADJUSTABLE TIME DELAY TO OVERRIDE MOMENTARY NORMAL
- FACTORY SET AT 3 SECONDS. 7. ATS SHALL INCLUDE ADJUSTABLE TIME DELAY ON RETRANSFER TO NORMAL SOURCE, PROGRAMMABLE 0-60 MINUTES FACTORY SET AT 30 MINUTES. IF THE EMERGENCY SOURCE FAILS DURING THE RETRANSFER TIME DELAY, THE TRANSFER
- SWITCH CONTROLS SHALL AUTOMATICALLY BYPASS THE TIME DELAY AND IMMEDIATELY RETRANSFER TO THE NORMAL POSITION. 8. ATS SHALL INCLUDE TIME DELAY ON TRANSFER TO EMERGENCY, PROGRAMMABLE
- 9. A SET OF CUSTOMER CONTACTS SHALL BE PROVIDED TO INDICATE BOTH EMERGENCY AND NORMAL SOURCE POSITION. 10. ATS SHALL BE SUPPLIED WITH 5-YEAR MANUFACTURE'S WARRANTY.

0-5 MINUTES, FACTORY SET AT 1 SECOND.



FINISHED FLOOR

FIRE ALARM RISER

NO SCALE

FIRE ALARM SEQUENCE OF OPERATION

1. FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES: MANUAL STATIONS, SMOKE DETECTORS, HEAT DETECTORS, FIRE PROTECTION SYSTEM, HOOD FIRE SUPPRESSION SYSTEM, OR DUCT SMOKE DETECTORS.

2. FIRE-ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS: CONTINUOUSLY OPERATE ALARM-NOTIFICATION APPLIANCES; IDENTIFY ALARM AT THE FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS; TRANSMIT

AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION; RECORD EVENTS IN THE SYSTEM MEMORY. SYSTEM TROUBLE SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND ACTIONS: OPEN CIRCUITS, SHORTS, AND GROUNDS IN DESIGNATED CIRCUITS; OPENING, TAMPERING WITH, OR REMOVING ALARM-INITIATING AND SUPERVISORY SIGNAL-INITIATING DEVICES; LOSS OF PRIMARY POWER AT FIRE-ALARM CONTROL UNIT; GROUND OR A SINGLE BREAK IN FIRE-ALARM CONTROL UNIT INTERNAL CIRCUITS; ABNORMAL AC VOLTAGE AT FIRE-ALARM CONTROL UNIT; BREAK IN STANDBY BATTERY CIRCUITRY; FAILURE OF BATTERY CHARGING; ABNORMAL POSITION OF ANY SWITCH AT FIRE-ALARM CONTROL UNIT OR ANNUNCIATOR.

4. SYSTEM TROUBLE AND SUPERVISORY SIGNAL ACTIONS: INITIATE NOTIFICATION APPLIANCE AND ANNUNCIATE AT FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS.

					PA	NEL: F	PA					
	MAIN: 200A MLO SERVICE: 120/208V, 3-PHA LOCATION: SEE PLAN RATING: 22,000 AIC TYPE: NEMA-1, SURFA		VIRE	Ξ.							TYPE 1 SURGE SUPPRESSION ER MODE, MINIMUM).	N
		1			1023	KVA					L	
CKI	DESCRIPTION	BKR	200	LOAD	A	В	С	LOAD	BKR	_	DESCRIPTION	CKT
1	LTS-CORRIDOR	20	1	0.73	1.45			0.72	20		REC-104	2
	LTS-B.R's,DAYRM,DIR.	20	1	1.47		2.19		0.72	20	1		4
5	TIME CLOCK (TC)	20	1	0.10			0.46	0.36	20		REC-104	6
7	LTS-BLDG EXTERIOR	20	1	1.30	2.30			1.00	20 G	_	REC-104 U/C REF	8
9	LTS-OFFICES,R.R.,ETC.	20	1	1.11		1.47		0.36	20		REC-104 ISLAND	10
	REC-105	20 A	1	0.72			1.72	1.00	20		REC-104	12
	REC-108,109	20 A	1	1.44	2.44			1.00	20	_	REC-104	14
15	REC-106, 107	20 A	1	1.44		2.44		1.00	20	_	REC-104	16
17	REC-111,116,122	20	1	0.72			1.32	0.60	20	1	HOOD 104	18
19	REC-115,123,117	20	1	0.72	1.72			1.00	20	1	REC-104	20
21	REC-121,ETC.	20	1	0.90		1.90		1.00	20	1	REC-104	22
23	REC-110	20	1	0.90			5.90	5.00	50 G	2	REC-104 RANGE	24
25	REC-113	20	1	0.72	5.72			5.00				26
27	REC-114	20	1	0.36		1.36		1.00	20 G	1	REC-115 WASHER	28
29	REC-114 COMMS	20	1	0.36			1.08	0.72	20	1	REC-118	30
31	REC-114 COMMS	20	1	0.36	2.86			2.50	30 G	2	REC-115 DRYER	32
33	FACP *	20	1	0.50		3.00		2.50				34
35	REC-121,EXT.	20	1	0.90			0.90		20	1	SPARE (FUTUTE FLAG POLE	36
37	REC-101	20	1	1.08	1.08				20	1	SPARE (FUTURE SITE SIGN)	
39	REC-102,103	20	1	0.36		1.08		0.72	20	1	REC-FUTURE TRAINING	40
41	SITE LIGHTING	20	1	0.15			0.69	0.54	20	_	REC-120,ETC.	42
43	BLDG. SIGNAGE	20	1	1.00	2.00			1.00	20	1	REC-104 DW	44
	GEN HTR/BATT. CHGR.	20	1	1.80	5-3-5-10-10-	1.80		34. 40.00	20	_	SPARE	46
	REC-RESTRM 112	20	1	0.18			0.18		20	_	SPARE	48
	REC-RESTRM 119	20	1	0.18	0.18				30	_	SURGE PROT DEVICE	50
	GRINDER PUMP	20	2	1.00	0.10	1.00				_	551162 116 521162	52
53			_	1.00		1.00	1.00					54
	SPARE	20	1	1.00	0.00		1.00				SPACE	56
	SPARE	20	1		5.00	0.00					SPACE	58
	SPARE	20	1			0.00	0.00				SPACE	60
	* INDICATES RED HANDLE L			ON BKR	19.75	16.24	13.25		50 G =	= 50	DA/2P GFCIBREAKER	- 50
	20 G = GFCITYPE BKR.		,	ON BIAN.				ļ)A/2P GFCIBREAKER	
	TOTAL CONNECTED LOAD ((KVA):			49.24	KVA	136.8	AMPS				

20 A = 20A COMBINATION TYPE AFCI BREAKER.

PANEL: MP MAIN: 400A MLO SERVICE: 120/208V, 3-PHASE, 4-WIRE PROVIDE UL-1449 LISTED TYPE 1 SURGE SUPPRESSION LOCATION: SEE PLAN DEVICE AT PANEL (80KA PER MODE, MINIMUM). RATING: 22,000 AIC TYPE: NEMA-1, SURFACE CKT DESCRIPTION BKR P LOAD A B C LOAD BKR P DESCRIPTION 1 AHU-1 4.20 | 60 | 2 | HP-1 60 2 5.80 10.00 5.80 10.00 4.20 5 AHU-2 50 2 4.80 7.32 2.52 35 2 HP-2 4.80 7.32 2.52 2.40 35 2 SPARE 9 SPARI 2.40 2.40 2.40 20 1 0.65 2.45 1.80 | 15 | 1 | DFU-1/DFU-1 15 DH-1 20 1 0.65 2.45 1.80 1.80 15 1 DFU-1/DFU-1 17 SPARE 19 WTR HTR | 25 | 3 | 3.00 | 4.80 1.80 | 15 | 1 | DFU-1/DFU-1 3.00 1.80 | 15 | 1 | DFU-1/DFU-1 3.00 4.80 | 1.80 | 15 | 1 | DFU-1/DFU-1 20 G 1 1.80 3.60 20 G 1 1.80 25 REC-CORD REEL 1.80 | 20 G | 1 | REC-CORD REEL 27 REC-CORD REEL 3.60 1.80 | 20 G | 1 | REC-CORD REEL 29 SPACE 20 G | 1 | SPARE 31 SPACE 33 SPACE 0.00 35 SPACE 30 | 3 | SURGE SUPP. DEVICE 37 PANEL PA | 200 | 3 | 19.75 | 19.75 16.24 16.24 13.25 13.25 47.92 39.49 29.57 TOTAL CONNECTED LOAD (KVA): 116.98 KVA 324.9 AMPS

E-mail: jlamb@ard-eng.com ER ENGINEERING, WILLOW MIST ROAD T BEACH, FL 32461 NE: (850) 974-8815 knauernevereng.com

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TALLAHASSEE, FL 32301

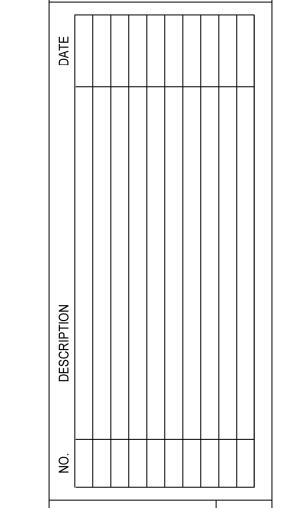
FL CA#8948

JAMES M. LAMB, PE#52688

Tel: (850) 668-6324

James M

Digitally signed by James M Lamb DN: C=US, O=Florida, dnQualifier= A01410D000001866BA7000700092C 9F, CN=James M Lamb Reason: I am approving this document Location: Date: 2025.05.23 14:05:50-04'00' Foxit PDF Editor Version: 2025.1.0



NTY EMERGENCY MANAGE ERVICE EXPANSION F COUNTY COMMISSIONER HOLMES COUNTY SE OF RD HOLMES

PROJECT NO. SP1020 DATE MAY 2025 DRAWN BY MRC JML

APPROVED BY PROJECT STATUS

CONSTRUCTION DOCUMENTS

SHEET NO.

SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

ARC FLASH WARNING LABELS ARE REQUIRED ON ALL EQUIPMENT DESIGNATED IN NEC. ART. 110.16. INCLUDING ALL EQUIPMENT SHOWN ON THE RISER. AND ANY OTHER ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS, THAT ARE IN OTHER THAN DWELLING UNITS, AND ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED; EQUIPMENT SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

CALL SUNSHINE 811 OR GO ONLINE TO www.sunshine811.com, AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING TO HAVE UTILITIES LOCATED AND MARKED.

PROVIDE WARNING RIBBON PER NEC 300.5 D 3; UNDERGROUN SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 18 INCHES OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON THAT IS PLACED IN THE TRENCH AT LEAST 12 INCHES

ABOVE THE UNDERGROUND INSTALLATION.

- PROVIDE NEW 400A/3P AUTOMATIC TRANSFER SWITCH (ATS), OPEN TRANSITION, SERVICE DISCONNECT: 400A/3P FUSED NEMA-3R SAFETY SWITCH, WITH NEMA-1 ENCLOSURE AND PROGRAMMABLE EXCERCISER; ASCO SERIES 300 GROUP G OR EQUAL. ATS TO BE INCLUDED IN BASE BID. ALTERNATE ONLY - PROVIDE SIGN: "GENERATOR ISOLATION SWITCH" -NEW 3-1/2" C.- -MEW 3-1/2" C.-4 500KCM, #3 GND 4 500KCM, #3 GND /─ NEW 2" C.-4 #3/0, #6 GND. NEW CT-CAN PER UTILITY REQUIREMENTS -ALTERNATE ONLY: PROVIDE NEW 100KW/125KVA 120/208V NEW 400A CT-TYPE METER BASE, PER UTILITY NEW NEW NEW THREE-PHASE DIESEL-FUELED GENERATOR, NFPA 110 NEW REQUIREMENTS. ATS PANEL MP PANEL PA COMPLIANT, WITH SOUND-ATTENUATING WEATHERPROOF 400A/3P CAN GENERATOR ALTERNATE ONLY: PROVIDE SIGN — "GENERATOR ON—SITE" — → 400A MLO 200A MLO ENCLOSURE, BLOCK HEATER, BATTERY CHARGER, REMOTE 208V 100KW 120/208V 120/208V **FUSED** ANNUNCIATOR (AT BUILDING), 400A/3P UNIT-MOUNTED 125KVA 3-PH 3-PH BREAKER, STARTUP, 4-HOUR LOAD BANK TESTING, ONE-YEAR NEMA-3R ALTERNATE ONLY: 120/208V SERVICE CONTRACT, AND ONE-YEAR WARRANTY. PROVIDE PAD EP0 PROVIDE GENERATOR EMERGENCY 3-PH PER DETAILS. SHUTDOWN BUTTON AT METER; BASIS OF DESIGN: CATERPILLER #DG100-2 PROVIDE 3/4" C. (CONTROLS) TO GENERATOR CONTROL PANEL. PROVIDE SIGN: "GENERATOR EMERGENCY SHUTDOWN SWITCH" — - PROVIDE NEW GROUND RODS PER PAD DETAIL, BOND NEW 400A 120/208V 3-PHASE SERVICE TO GENERATOR FRAME WITH #3 GND. BASE BID: TO UTILITY TRANSFORMER/PEDESTAL NEW SERVICE GROUND PER NEC 250.50 PROVIDE 3-1/2" C.-(SPARE); AND (3) 1" C.-(SPARE) 3-1/2" C.-3 500KCM -PROVIDE #1/0 GROUND TO BUILDING STEEL AND COLD-WATER PIPING; PROVIDE #4 GND TO ALTERNATE: FOOTER STEEL AND NEW GROUND RÖD. PROVIDE 3-1/2" C.-4 500KCM, #3 GND; PROVIDE INTERSYSTEM BONDING TERMINAL 1" C.-(CONTROLS); PER NEC 250.94. 1" C-SPARE. NO SCALE

James M. Lamb, State of Florida, Professional Engineer, License No. 52688. This item has been digitally signed and sealed by James M. Lamb on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ARD PROJECT #4167

TYPE	DESCRIPTION	MNFR/SUPPLIER	MODEL#	LAMPS	NOTES SET FOR 2500LM IN OFFICES, 1500LM IN CORRIDORS AND RESTROOMS		
A	6" LED RECESSED DOWN LIGHT	LIGHTOLIER OR EQUAL	M6R-DL-25-9CS-M-CL-Z10- U	25W LED			
A2	6" LED RECESSED DOWN LIGHT	LIGHTOLIER OR EQUAL	M6R-DL-15-9CS-M-CL-Z10- U	25W LED	SET FOR 2500LM IN OFFICES, 1500LM IN CORRIDORS AND RESTROOMS		
В	4" LED RECESSED SHOWER LIGHT	LITON OR EQUAL	LRLD1401-W-CL-WL-T35- L10	13W LED			
С	24" LED SHALLOW SURFACE MOUNT CEILING LIGHT	H.E. WILLIAMS OR EQUAL	RNDS-2-L45-835-FXA-DIM- UNV	46W LED			
D	24" LED ARCHITECTURAL PENDANT MOUNT	H.E. WILLIAMS OR EQUAL	RNDP-2-L45-835-FXA- ACF*3P/D24-DIM-UNV	46W LED	MOUNT BOTTOM OF FIXTURE AT 8'-0"AF		
E1	WHITE THERMOPLASTIC LED EXIT LIGHT	CHLORIDE OR EQUAL	VERWEM	WITH UNIT			
E2	EMERGENCY BATTERY LIGHT UNIT (LARGE)	CHLORIDE OR EQUAL	CLU2-N-W	WITH UNIT	MOUNT 7'-6" AFF		
E3	EMERGENCY BATTERY LIGHT UNIT (SMALL)	CHLORIDE OR EQUAL	VLTU	WITH UNIT	MOUNT 7'-6" AFF		
E4	EMERGENCY EGRESS LIGHT (OUTDOOR)	BEGHELLI OR EQUAL	MUR-SA-DB-CL	32W LED	MOUNT CENTERED ABOVE DOOR. PROVIDE SWITCHED & UNSWITCHED HO CONDUCTOR.		
F	CEILING FAN WITH LED LIGHT KIT	TGS OR EQUAL	CH48-18-30-MW-4P-WH- 1D-PM-WC	18W LED	VERIFY FINISH WITH ARCHITECT		
G	4 FT LED LENSED STRIP	H.E. WILLIAMS OR EQUAL	76R-4-L52-835-DIM-UNV	36W LED			
Н	2 FT LED VANITY LIGHT	SAL OR EQUAL	S3951-35K-L24-BC	24W LED	MOUNT ABOVE MIRROR; VERIFY FINISH WITH ARCHITECT		
J	SMALL LED ARCHITECTURAL PENDANT	CON-TECH OR EQUAL	CRS8 / CTG4CY3W	8W LED	MOUNT BOTTOM OF FIXTURE AT 2'6" ABOVE COUNTER		
K	(NOT USED)						
M	LED ARCHITECTURAL WALL PACK	H.E. WILLIAMS OR EQUAL	VWMV-L20-840-T3-DBZ- CGL-DIM-UNV	26W LED	MOUNT FIXTURE 10'-0" AFF		
N	LED DOUBLE HEADED FLOOD LIGHT STONCO SL20-SCT-G1-8-BK 2 OR EQUAL		20W LED	MOUNT AT CORNER OF BLDG.			
P1	LED POLE MOUNTED AREA LIGHT	GARDCO OR EQUAL	OPF-M A10 840 T3M AR1 UNV FAWS BK	112W LED	PROVIDE DIRECT BURY FIBERGLASS POLE FIXTURE MOUNTING HEIGHT 25 FT AFF, 130 MPH WIND LOAD		
Q	4FT LED SURFACE MOUNT WRAP AROUND	H.E. WILLIAMS OR EQUAL	AVX-4-L62-840-WPC- WET/CC-DIM-UNV	57W LED	PROVIDE EMERGENCY BATTERY PACK WHERE INDICATED		

LIGHTING NOTES:

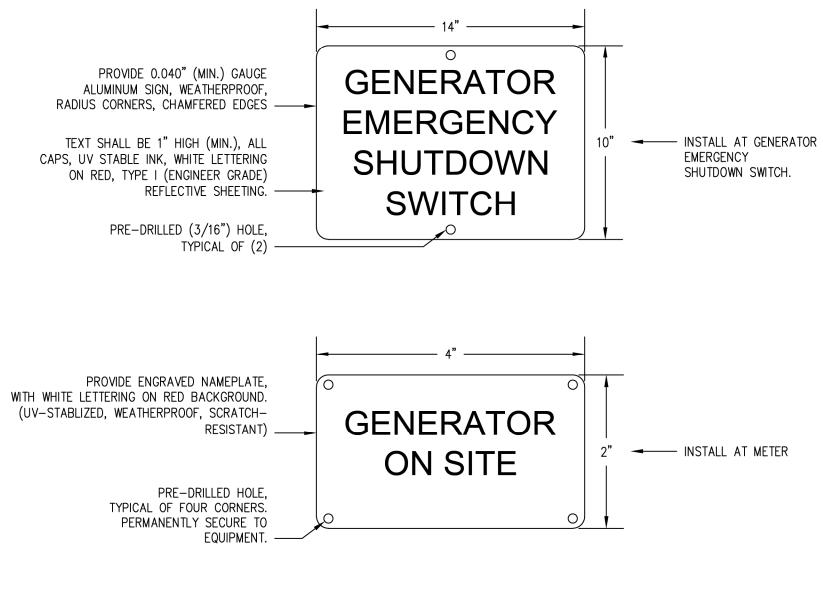
- 1. VERIFY ALL CEILING FINISHES, FIXTURE TRIMS, AND VOLTAGES PRIOR TO ORDERING AND PROVIDE AS REQUIRED.
- 2. FIXTURES SHOWN ARE BASIS OF DESIGN; FIXTURES OF SIMILAR STYLE, PERFORMANCE, AND ELECTRICAL CHARACTERISTICS THAT ARE ACCEPTABLE TO THE OWNER AND ENGINEER WILL BE ALLOWED.
- 3. PROVIDE ALL LOW-VOLTAGE WIRING AS REQUIRED, FOR DIMMING AND CONTROLS.
- 4. PROVIDE LAMPS/BALLASTS/DRIVERS WITH ALL FIXTURES.
- 5. PROVIDE ALL BOXES, BACKBOXES, SUPPORTS, FEEDS, TRIMS, STEMS, ROUGH-INS AND BLOCKING AS MAY BE REQUIRED FOR INSTALLATION.

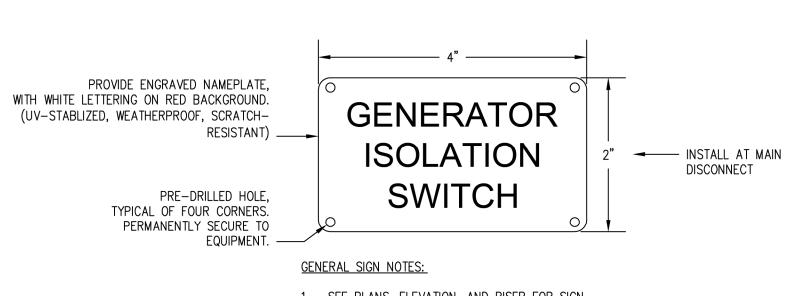
ENERGY CONSERVATION REQUIREMENTS:

- 1. WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL PROVIDE RECORD DRAWINGS, OPERATING MANUAL, AND MAINTENANCE MANUALS TO THE BUILDING OWNER.
- RECORD DRAWINGS SHALL INCLUDE: A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM; AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
 CONTRACTOR SHALL PROVIDE OPERATION MANUALS AND MAINTENANCE MANUALS TO
- THE OWNER FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE; REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- 4. CONTRACTOR SHALL PROVIDE TO THE OWNER NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- 5. CONTRACTOR SHALL CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME—OUT ADJUSTMENTS FOR ALL OCCUPANCY SENSORS YIELD ACCEPTABLE RESULTS.
 6. CONTRACTOR SHALL CONFIRM THAT TIME SWITCHES AND PROGRAMMABLE SCHEDULE
- CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.

 7. WHERE DAYLIGHT HARVESTING IS USED, CONTRACTOR SHALL CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS
- 8. CONTRACTOR SHALL PROGRAM AND ADJUST ALL CONTROLS AS NEEDED TO ACHIEVE
- PERFORMANCE THAT IS SATISFACTORY TO THE OWNER.

 9. CONTRACTOR SHALL TEST ALL LIGHTING CONTROL SYSTEMS TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.
- 10. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE ENERGY CONSERVATION SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPE, AND CONTRACTOR SHALL DOCUMENT TESTING AS FOLLOWS: FOR EACH ITEM LISTED IN SECTION C408.3.1.1 AND C408.3.1.2, CONTRACTOR SHALL LIST THE TEST REQUIREMENT, INDICATE THAT THE TEST WAS "PASSED" OR WAS "NOT APPLICABLE" TO THE PROJECT; DOCUMENT SHALL BE SIGNED AND DATED BY THE TECHNICIAN PERFORMING THE TEST, AND ELECTRONIC COPY SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO SUBSTANTIAL COMPLETION.
- 11. DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET
 DOCUMENTED PERFORMANCE CRITERIA OF FLORIDA BUILDING CODE ENERGY
 CONSERVATION SECTION C405 ARE TO BE PROVIDED TO THE BUILDING OWNER
 WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

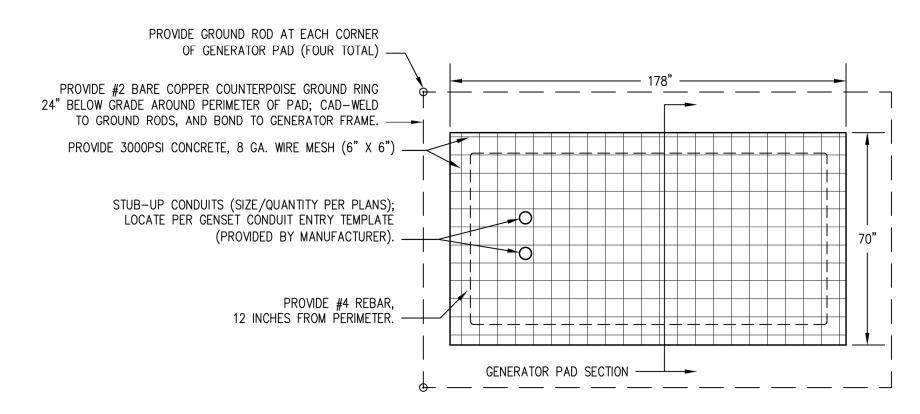




- SEE PLANS, ELEVATION, AND RISER FOR SIGN LOCATIONS.
- 2. PROVIDE ATTACHMENT MEANS AS NECESSARY TO PERMANENTLY AND SECURELY ATTACH SIGN TO EQUIPMENT.

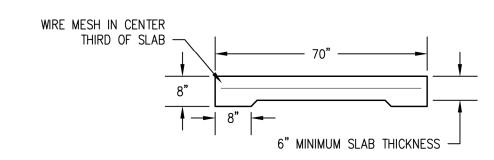
GENERATOR SIGN DETAILS

NO SCALE



GENERATOR PAD LAYOUT

NO SCALE



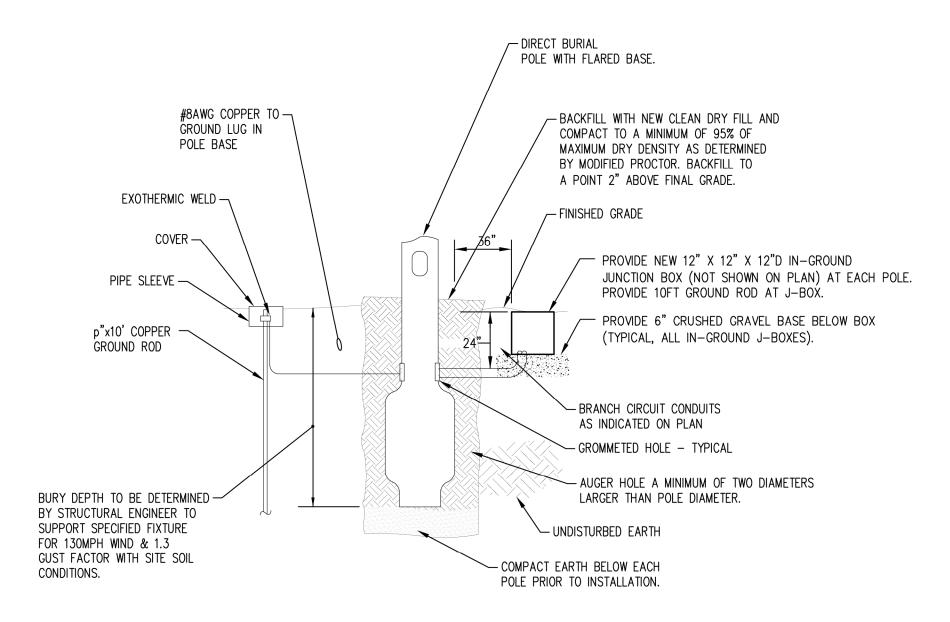
GENERATOR PAD SECTION

NO SCALE

- NOTES:

 1. LEVEL AND COMPACT SITE AS MAY BE REQUIRED PRIOR TO FORMING PAD.
- GRADE TO ASSURE PAD DOES NOT CREATE DRAINAGE ISSUES.

 2. ANCHOR BOLTS SHALL BE CAST INTO SURFACE OF PAD; SIZE, QUANTITY, AND LOCATION OF ANCHOR BOLTS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.



DIRECT BURY POLE DETAIL

NO SCALE

James M

APPLIED RESEARCH & DESIGN, INC. 2623 S. BLAIRSTONE ROAD TALLAHASSEE, FL 32301 FL CA#8948

JAMES M. LAMB, PE#52688

Tel: (850) 668-6324 E-mail: jlamb@ard-eng.com

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VO. DESCRIPTION DATE

HOLMES COUNTY EMERGENCY MANAGEMENT
SERVICE EXPANSION
BOARD OF COUNTY COMMISSIONERS
HOLMES COUNTY
FLORIDA

PROJECT NO. SP1020
DATE MAY 2025
DRAWN BY MRC
APPROVED BY JML

CONSTRUCTION DOCUMENTS
SHEET NO.

ARD PROJECT #4167

PROJECT STATUS

E0.3

11/12/2024 4:04:17 PM D:\PROJECTS\4167 KNE HOLMES COUNTY EMS\DRAWINGS\REF 11-11-24\XBDR 11-12-24.

TO PANEL PA (3/4" EMPTY CONDUIT) TO PANEL PA (3/4" EMPTY CONDUIT) APPROXIMATE TREE LINE BOUNDARY LINE — GENERATOR & PAD ALTERNATE ONLY; SEE RISER & DETAILS _------— SERVICE EQUIP. SEE RISER COVERED AREA SITE PLAN - ELECTRICAL

GENERAL NOTES: (THIS SHEET ONLY)

1. PROVIDE DEDICATED NEUTRAL WITH ALL 120V BRANCH CIRCUITS.

2. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

WORK NOTES: (THIS SHEET ONLY)

- 1 FOR FUTURE SITE SIGNAGE, PROVIDE FLUSH IN-GRADE JUNCTION BOX, 12"x 12" AS MANUFACTURED BY QUAZITE OR EQUAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER. PROVIDE EMPTY CONDUIT WITH PULL STRING TO PANEL.
- 2 FOR FUTURE FLAG POLE LIGHTING, PROVIDE FLUSH IN-GRADE JUNCTION BOX, 12"x 12" AS MANUFACTURED BY QUAZITE OR EQUAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER. PROVIDE EMPTY CONDUIT WITH PULL STRING TO PANEL.
- GRINDER PUMP CONTROL PANEL (FIELD—COORDINATE EXACT LOCATION);
 PROVIDE 3/4" C.-3 #10, #10 GND, TO PANEL. NOTE: WET WELL IS CLASS 1
 DIVISION 1 LOCATION; PROVIDE SEALS AS REQUIRED FOR ALL RACEWAYS TO WET WELL.
- 4 PROVIDE 2" C. FROM RIGHT-OF-WAY TO COMMS BACKBOARD FOR COMMS SERVICE. FIELD COORDINATE TERMINATION WITH OWNER'S COMMUNICATIONS PROVIDER.

APPLIED RESEARCH & DESIGN, INC. 2623 S. BLAIRSTONE ROAD TALLAHASSEE, FL 32301 FL CA#8948 JAMES M. LAMB, PE#52688 Tel: (850) 668-6324

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James M Lamb

Digitally signed by James M Lamb DN: C=US, O=Florida, dnQualifier= A01410D000001866BA7000700092C 9F, CN=James M Lamb Reason: I am approving this document Date: 2025.05.23 14:07:29-04'00' Foxit PDF Editor Version: 2025.1.0

PROJECT NO. MAY 2025 DRAWN BY APPROVED BY

MRC

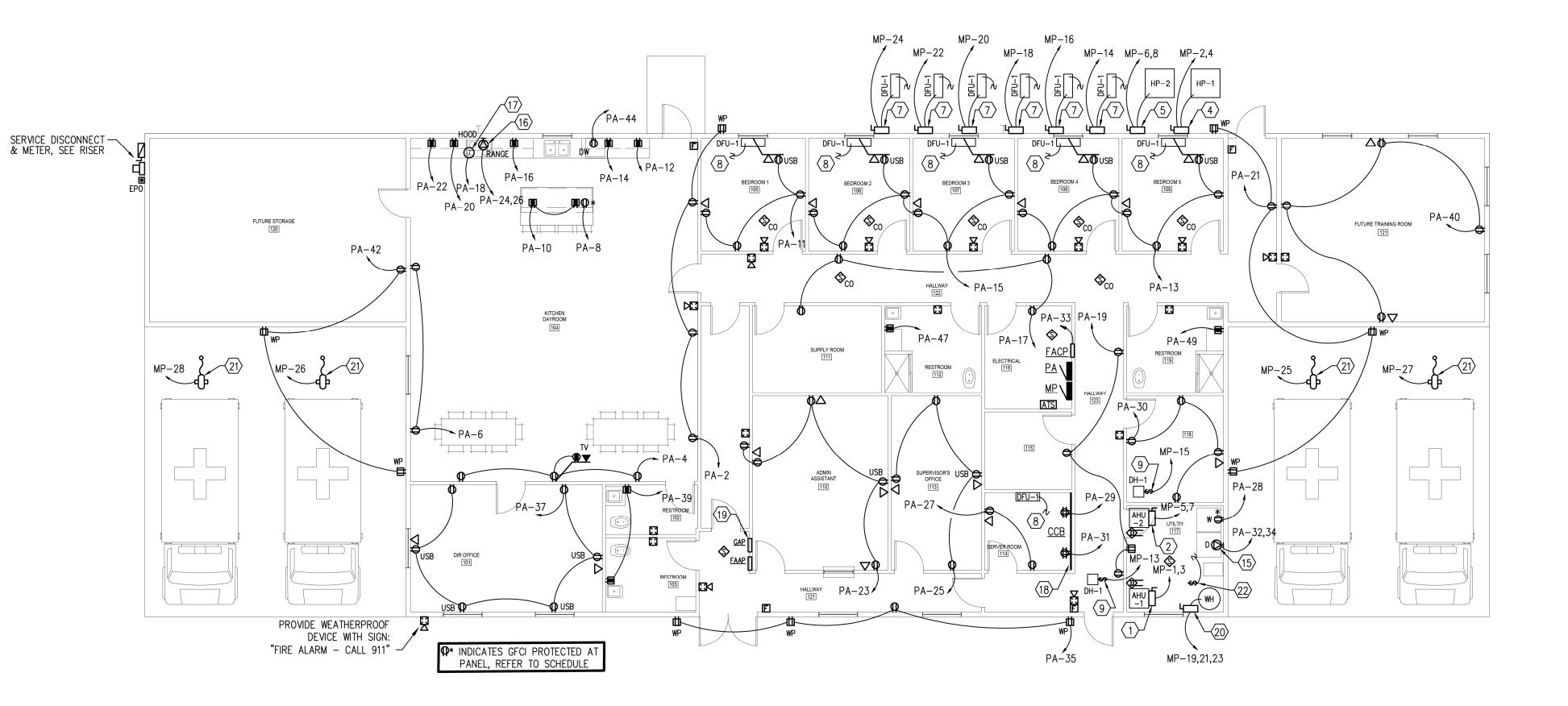
PROJECT STATUS

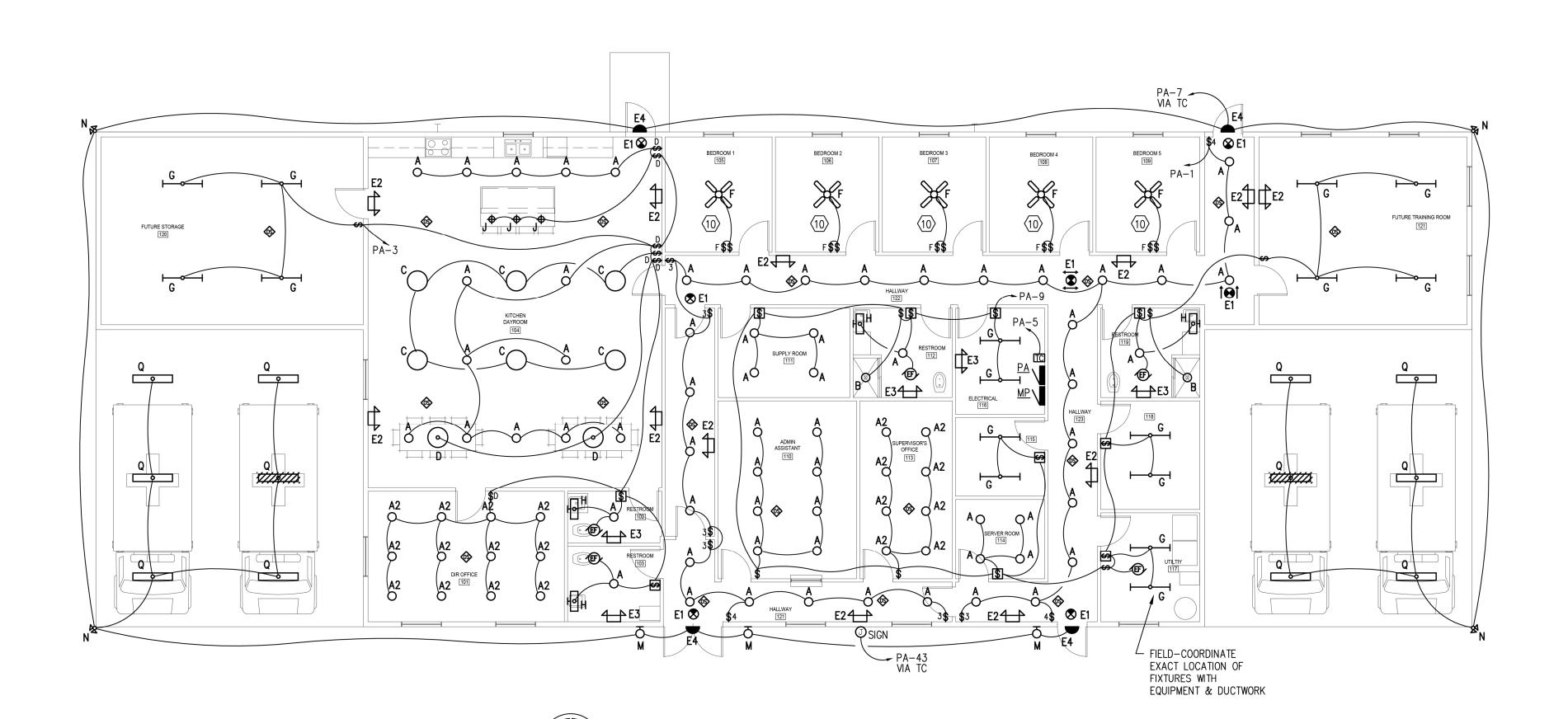
CONSTRUCTION DOCUMENTS

SHEET NO.

PROVIDE WARNING RIBBON PER NEC 300.5 D 3; UNDERGROUN SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETI AND THAT ARE BURIED 18 INCHES OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON THAT IS PLACED IN THE TRENCH AT LEAST 12 INCHES ABOVE THE UNDERGROUND INSTALLATION.

CALL SUNSHINE 811 OR GO ONLINE TO www.sunshine811.com, AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING TO HAVE UTILITIES LOCATED AND MARKED.





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

0 2' 4' 8

FLOOR PLAN - POWER & SYSTEMS

0 2' 4' 8'

GENERAL NOTES:

- 1. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS.
- ALL WALL MOUNTED OCCUPANCY SENSORS ARE MANUAL ON/AUTOMATIC OFF.
- 3. PROVIDE ALL LOW VOLTAGE CONTROL CABLING FOR LIGHTING, PLENUM RATED.
- 4. PROVIDE SEPARATE NEUTRAL FOR EACH 120V BRANCH CIRCUIT.

WORK NOTES:

- AHU-1; 208V, 1PH, PROVIDE NEW 60A/2P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 3/4" C.-2 #6, #10 GND, TO PANEL. PROVIDE A SIMPLEX RECEPTACLE (NOT SHOWN) FOR CONDENSATE PUMP, CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT. MOUNT AT OR NEAR AHU.
- AHU-2; 208V, 1PH, PROVIDE NEW 60A/2P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 3/4" C.-2 #8, #10 GND, TO PANEL. PROVIDE A SIMPLEX RECEPTACLE (NOT SHOWN) FOR CONDENSATE PUMP, CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT. MOUNT AT OR NEAR AHU.
- $\sqrt{3}$ NOT USED.
- 4 HP-1; 208V, 1PH, PROVIDE NEW 60A/2P 240V N.F. NEMA-3R SAFETY SWITCH, WITH 3/4" C.-2 #6, #10 GND, TO PANEL.
- 5 HP-2; 208V, 1PH, PROVIDE NEW 60A/2P 240V N.F. NEMA-3R SAFETY SWITCH, WITH 3/4" C.-2 #8, #10 GND, TO PANEL.
- 6 NOT USED.
- DFU-1 OUTDOOR UNIT; 115V, 1PH, PROVIDE NEW 30A/2P 240V FUSED NEMA-3R SAFETY SWITCH (FUSE AS RECOMMENDED BY MANUFACTURER), WITH 3/4" C.-2 #12, #12 GND, TO PANEL. PROVIDE 3/4" C. WITH POWER/CONTROL CABLING PER MANUFACTURER'S REQUIREMENTS TO INDOOR UNIT.
- DFU-1 INDOOR UNIT; 115V, 1PH, PROVIDE POWER/CONTROL CABLING PER MANUFACTURER'S REQUIREMENTS FROM OUTDOOR UNIT. PROVIDE 20A MOTOR-RATED SNAP SWITCH AT INDOOR UNIT (NOT SHOWN) FOR DISCONNECT MEANS.
- 9 DH-1; PROVIDE FOR EACH, NEW 20A/1P MOTOR RATED SNAP SWITCH FOR DISCONNECT MEANS WITH 1/2" C.-2 #12, #12 GND, TO PANEL.
- 10 FAN/LIGHTS AND CONTROLS TO BE SERVED FROM ROOM RECEPTACLE CIRCUIT.
- $\langle 11 \rangle$ NOT USED.
- $\langle 12 \rangle$ NOT USED.
- $\langle 13 \rangle$ NOT USED.
- $\langle 14 \rangle$ NOT USED.
- ELECTRIC DRYER: PROVIDE 30A 120/240V DRYER RECEPTACLE, WITH 3/4" C.-3 #10, #10 GND, TO PANEL. VERIFY PLUG TYPE PRIOR TO ROUGH-IN.
- ELECTRIC RANGE: PROVIDE 50A 120/240V RANGE RECEPTACLE, WITH 1" C.-3 #6, #10 GND, TO PANEL. VERIFY PLUG TYPE PRIOR TO ROUGH-IN.
- RANGE HOOD; PROVIDE 120V POWER CONNECTION AS SHOWN FOR LIGHT AND FAN.
 VERIFY FINAL CONNECTIONS WITH INSTALLER. PROVIDE FIRE ALARM CONNECTION TO
 HOOD FIRE SUPPRESSION SYSTEM. PROVIDE CONNECTION TO SHUNT—TRIP DEVICE TO

SHUTDOWN RANGE UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM.

- PROVIDE 8'x 4'x 3/4" PLYWOOD BACKBOARD AS INDICATED. PAINT WITH 2 COATS OF FIRE RETARDANT PAINT. PROVIDE COPPER GROUND BAR CONNECTED TO BUILDING SYSTEM GROUND WITH #6 AWG. PROVIDE (2) 2" CONDUITS TO RIGHT OF WAY, COORDINATE WITH UTILITY. PROVIDE CAT-6 PATCH PANEL, AND TERMINATE/TEST ALL STATION CABLES FOR COMPLIANCE WITH CAT-6
- ALTERNATE ONLY: PROVIDE NEW GENERATOR ANNUNCIATOR PANEL. PROVIDE 1" C.—(CABLING AS REQUIRED), TO GENERATOR CONTROL PANEL.

REQUIREMENTS (INCLUDING ATTENUATION AND CROSS-TALK).

- WTR. HTR.; 9KW, 208V, 3PH, PROVIDE NEW 30A/3P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 3/4" C.-3 #10, #10 GND, TO PANEL.
- PROVIDE CORD—REEL WITH EJECTOR RECEPTACLE FOR CONNECTION TO APPARATUS SHORE POWER; EQUAL TO KUSSMAUL #091-220-20-120; MOUNT TO OVERHEAD STRUCTURE, PROVIDE SUPPORT AS REQUIRED. NOTE: CONTRACTOR TO VERIFY CORD—REEL EQUIPMENT SPECIFICATION PRIOR TO ORDERING; VERIFY EXACT LOCATION IN THE FIELD PRIOR TO ROUGH—IN.
- 120V CONNECTION FOR RECIRC PUMP FROM NEAREST 120V RECEPTACLE CIRCUIT, PROVIDE 20A MOTOR RATED SNAP SWITCH FOR DISCONNECT MEANS. COORDINATE EXACT LOCATION WITH INSTALLER.

& DESIGN, INC.
2623 S. BLAIRSTONE ROAD
TALLAHASSEE, FL 32301
FL CA#8948

TALLAHASSEE, FL 32301 FL CA#8948 JAMES M. LAMB, PE#52688 Tel: (850) 668-6324 E-mail: jlamb@ard-eng.com

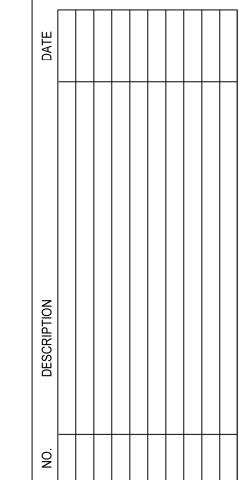
APPLIED RESEARCH

VEVER ENGINEERING, F 21 W. WILLOW MIST ROAD INLET BEACH, FL 32461 PHONE: (850) 974-8815

James M Lamb

Digitally signed by James M Lamb DN: C=US, O=Florida, dnQualifier= A01410D000001866BA7000700092C 9F, CN=James M Lamb Reason: I am approving this document Location:

Date: 2025.05.23 14:06:18-04'00' Foxit PDF Editor Version: 2025.1.0



NTY EMERGENCY MANAGEMENT
ERVICE EXPANSION
COUNTY COMMISSIONERS
HOLMES COUNTY

TITLE

PROJECT NO. SP1020
DATE MAY 2025
DRAWN BY MRC
APPROVED BY JML

PROJECT STATUS
CONSTRUCTION DOCUMENTS

SHEET NO.

ARD PROJECT #4167

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James M. Lamb, State of Florida, Professional Engineer, License No. 52688. This item has been digitally signed and sealed by James M. Lamb on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.