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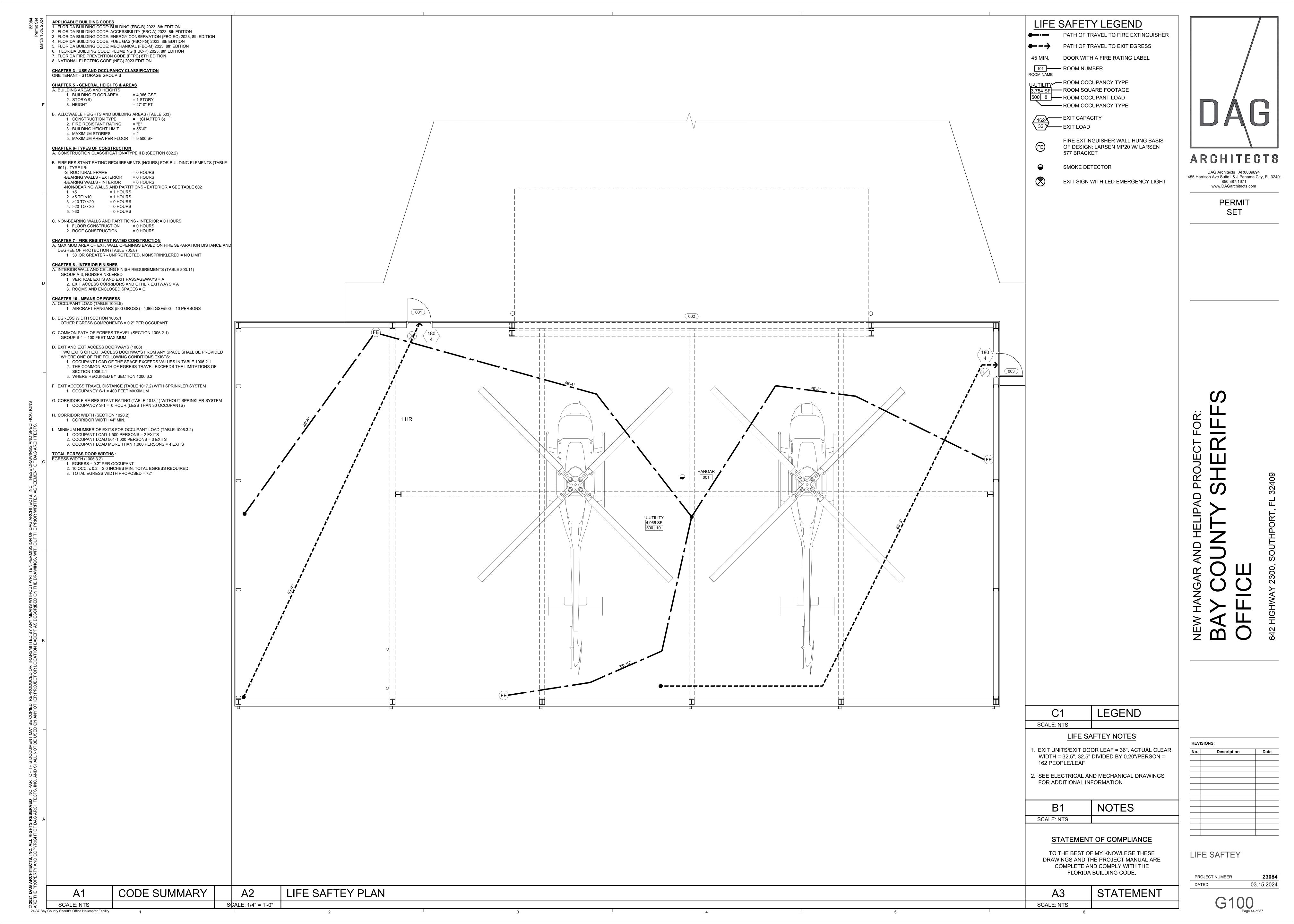
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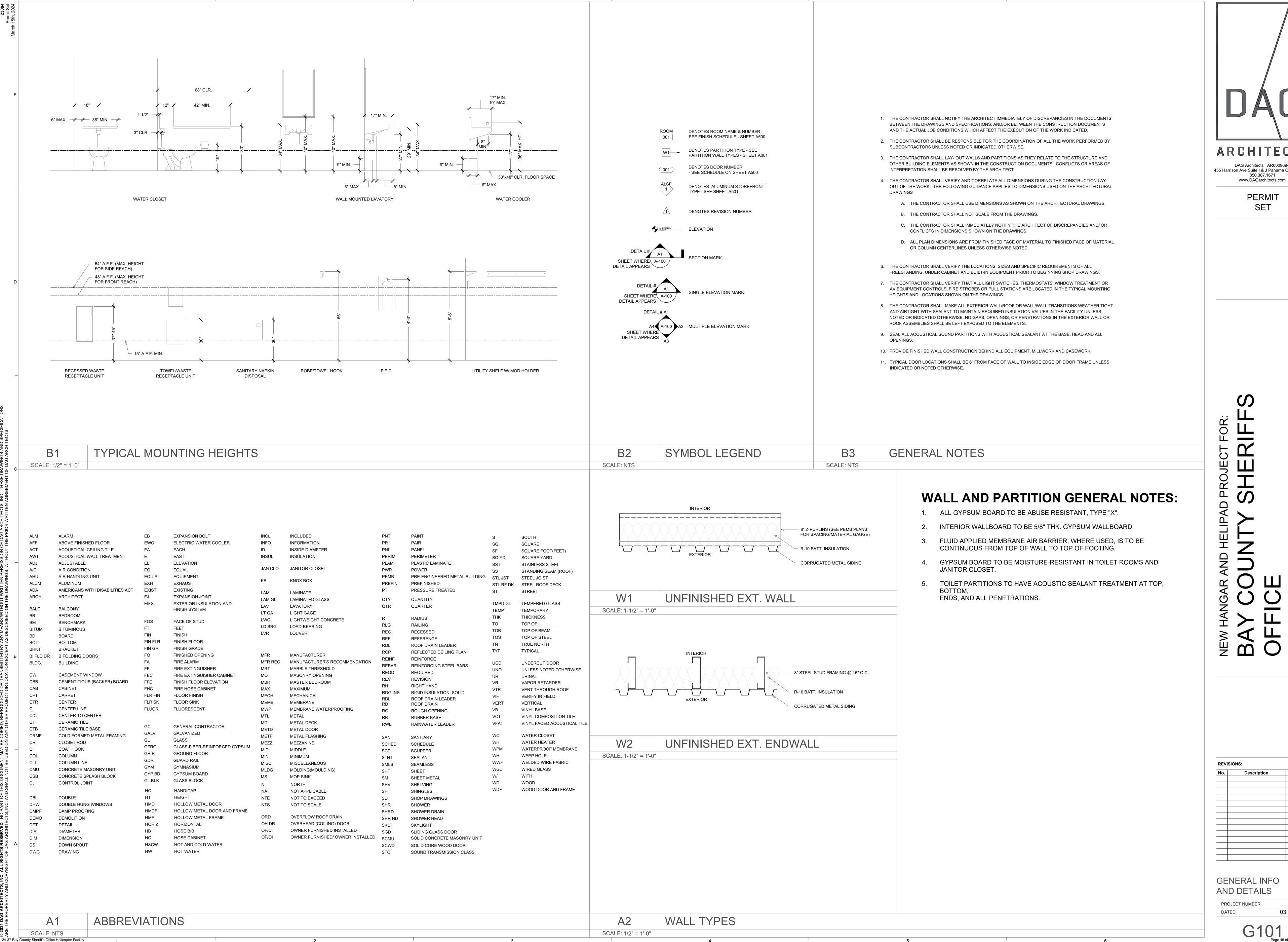
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03.15.2024

PROJECT NUMBER





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GENERAL INFO AND DETAILS

03.15.2024



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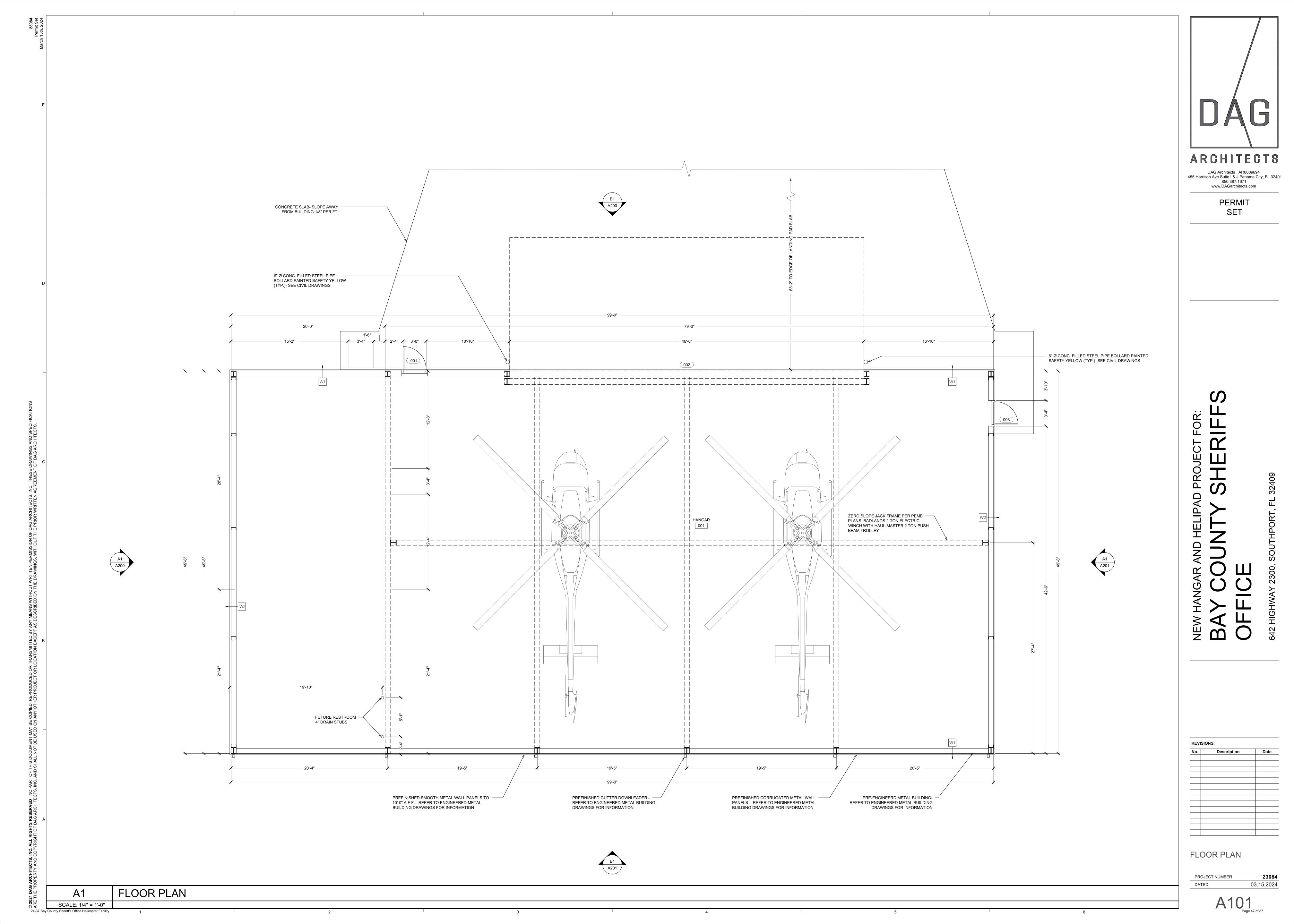
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SITE PLAN

PROJECT NUMBER
DATED 23084 03.15.2024

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No. Description Date

HELIPAD PLAN

 PROJECT NUMBER
 23084

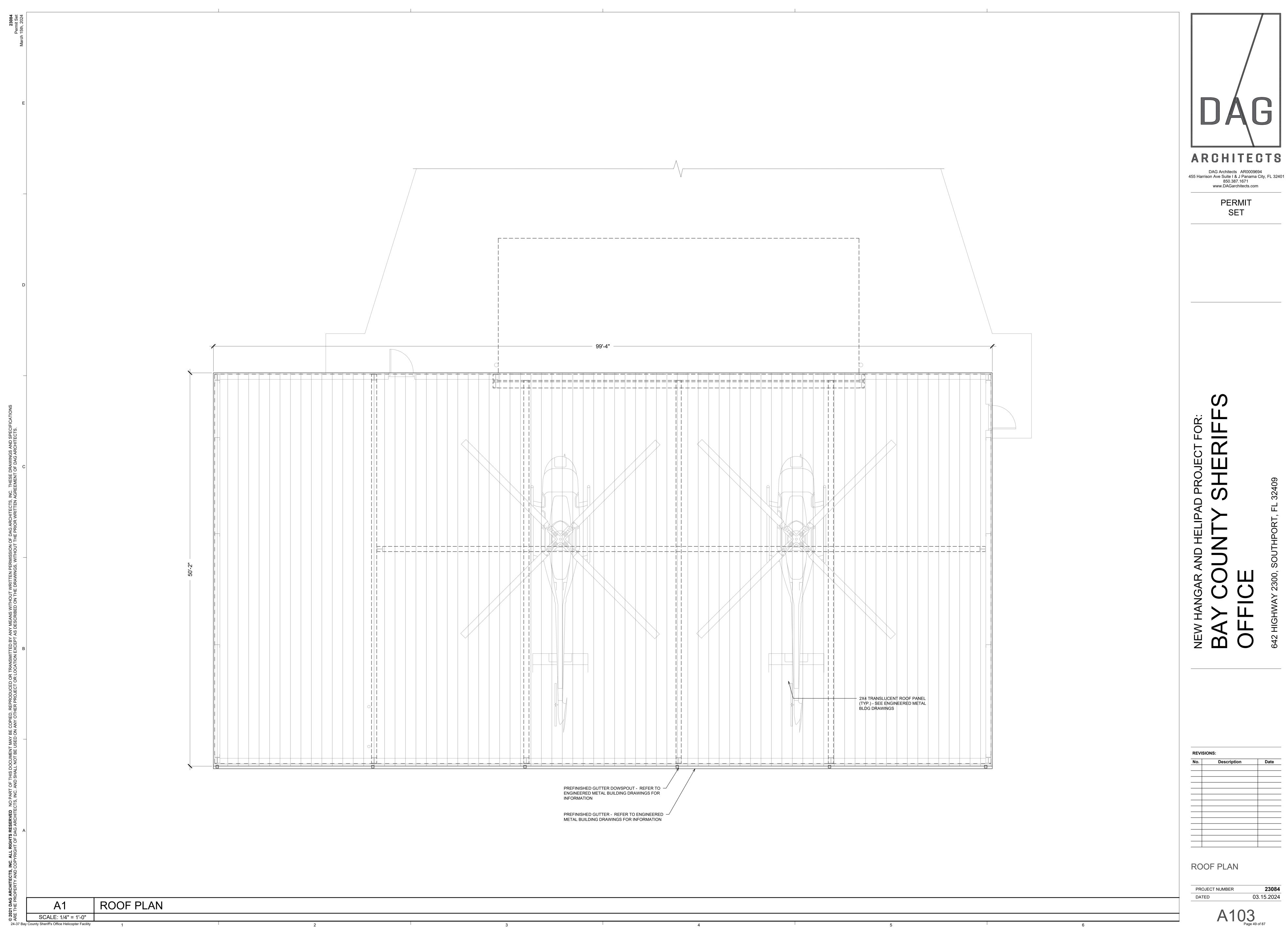
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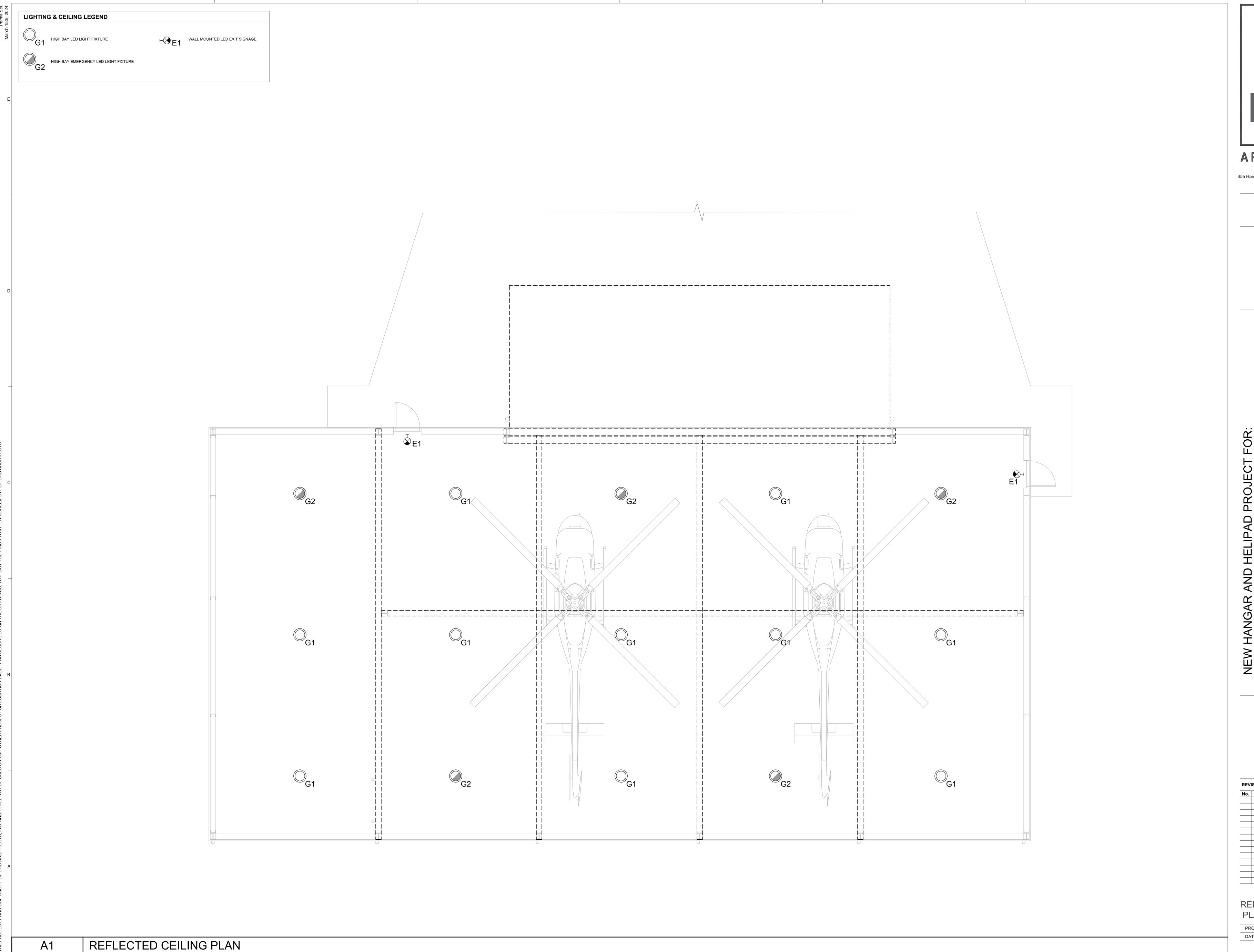
A1 EXISTING HELIPAD PAINT REFRESH PLAN

SCALE: 1/4" = 1'-0"

24-37 Bay County Sheriff's Office Helicopter Facility



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SCALE: 1/4" = 1'-0"

24-37 Bay County Sheriff's Office Helicopter Facility

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COUNTY SHERIFF

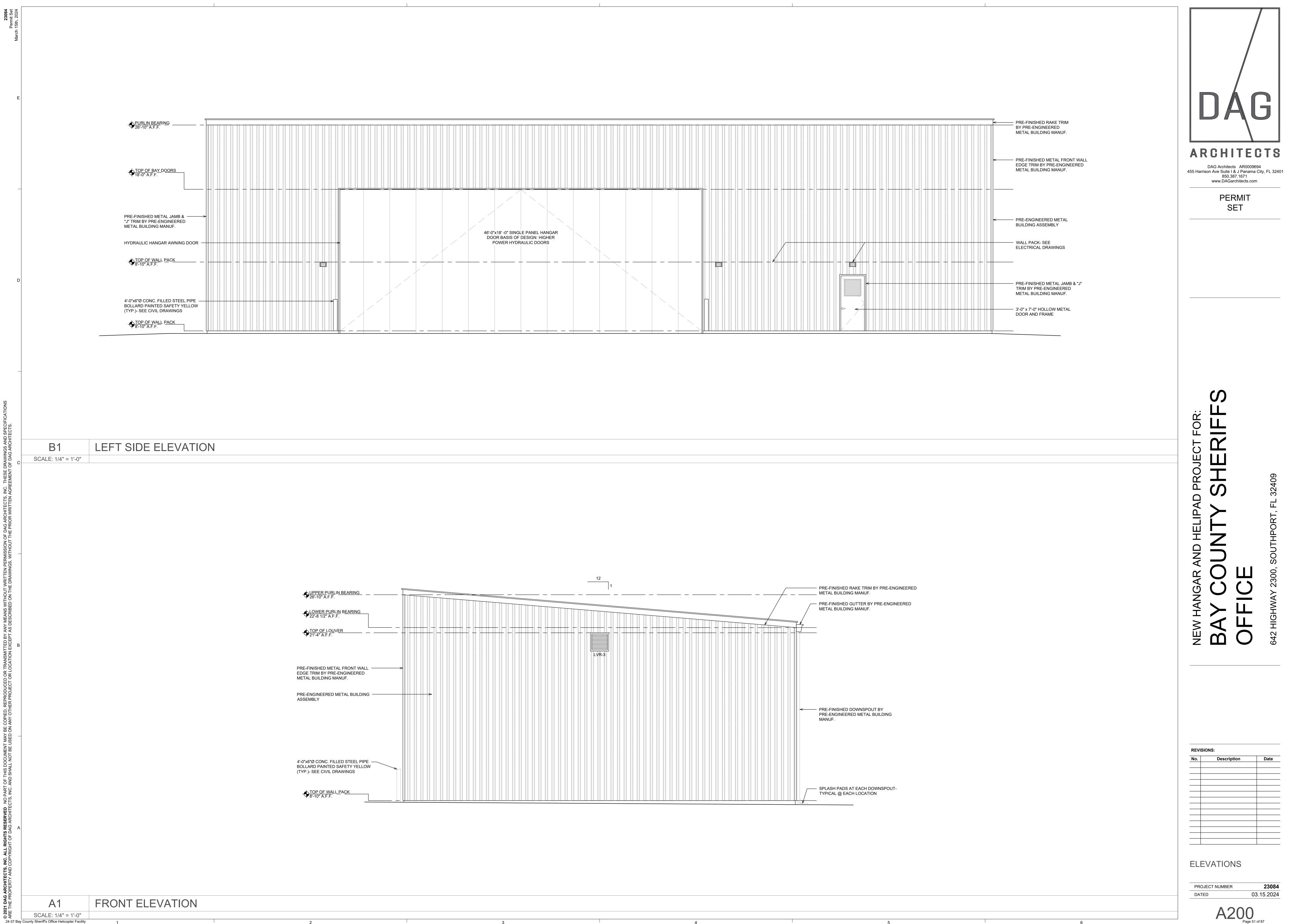
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REFLECTED CEILING PLAN

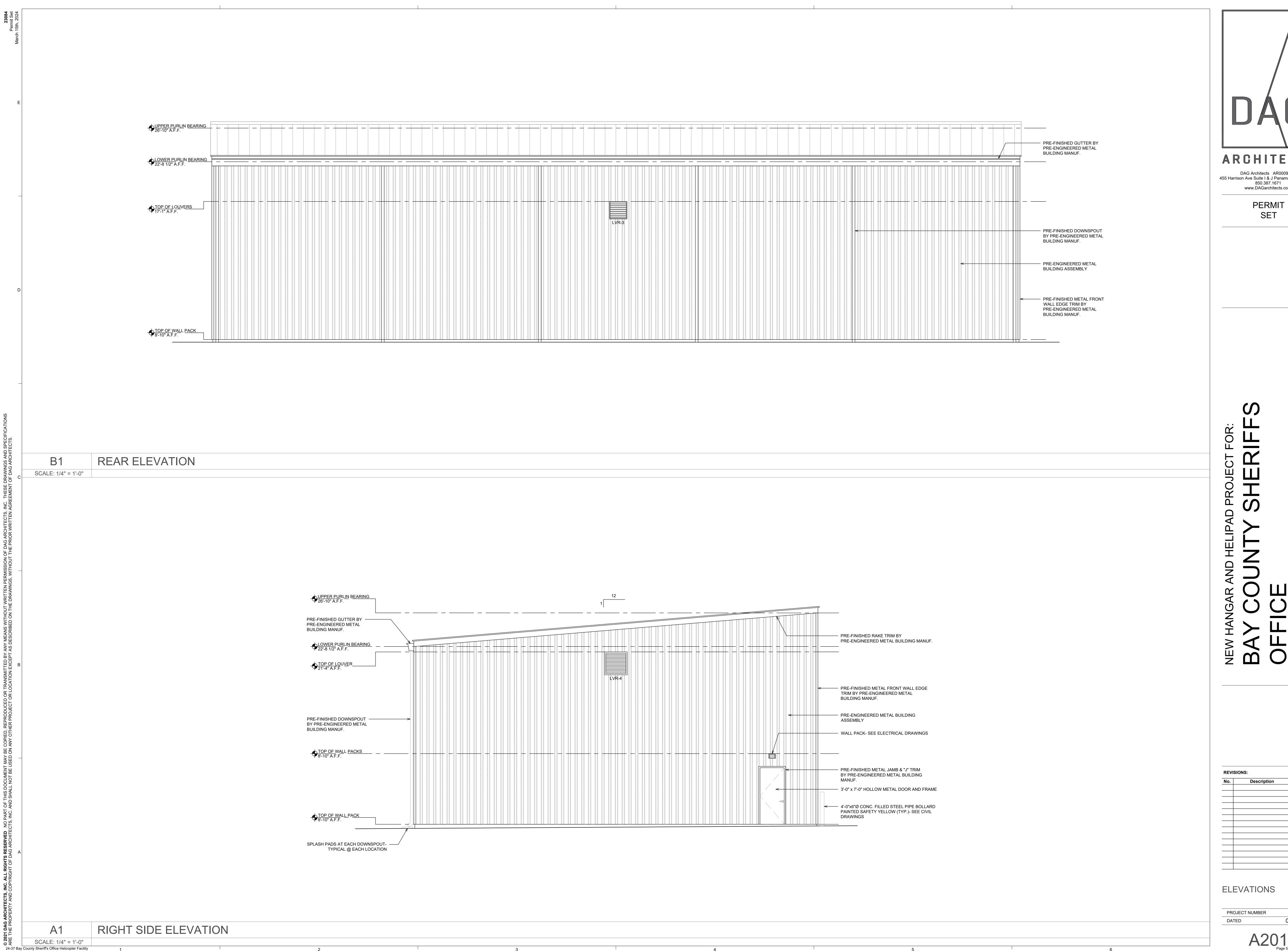
PROJECT NUMBER **23084**DATED 03.15.2024

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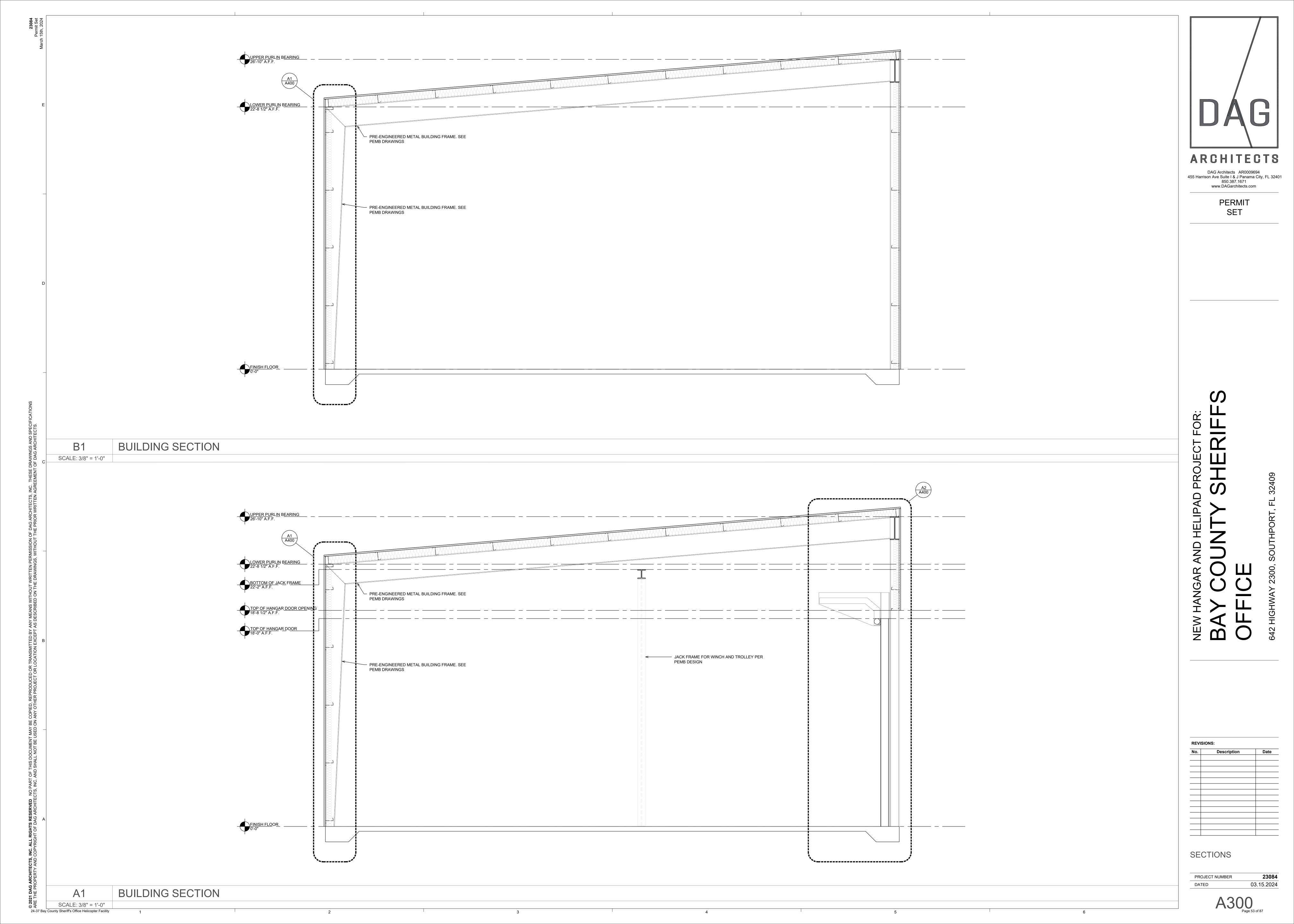
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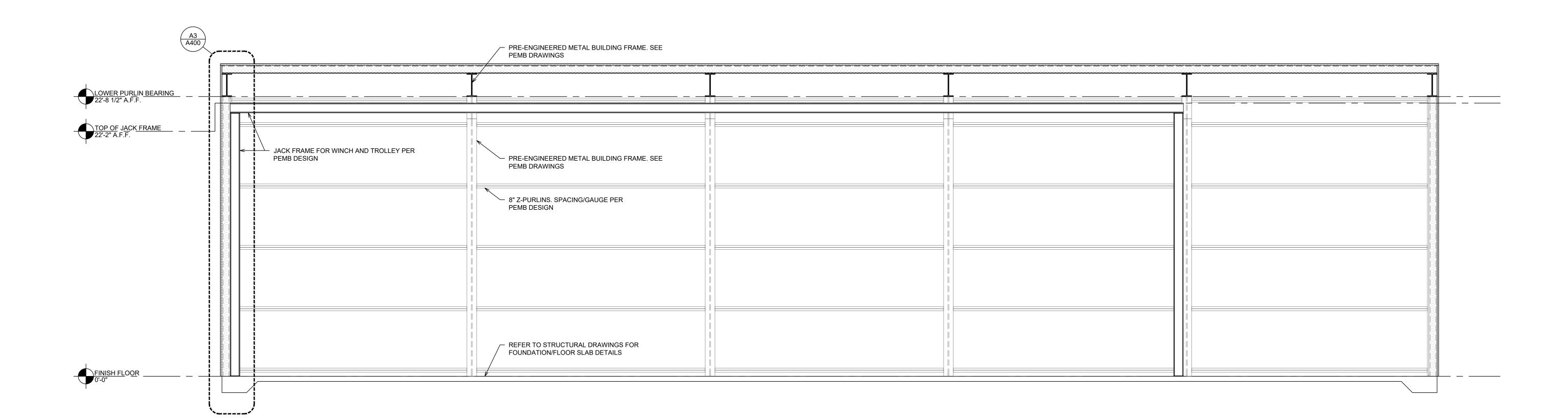
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SECTIONS

 PROJECT NUMBER
 23084

 DATED
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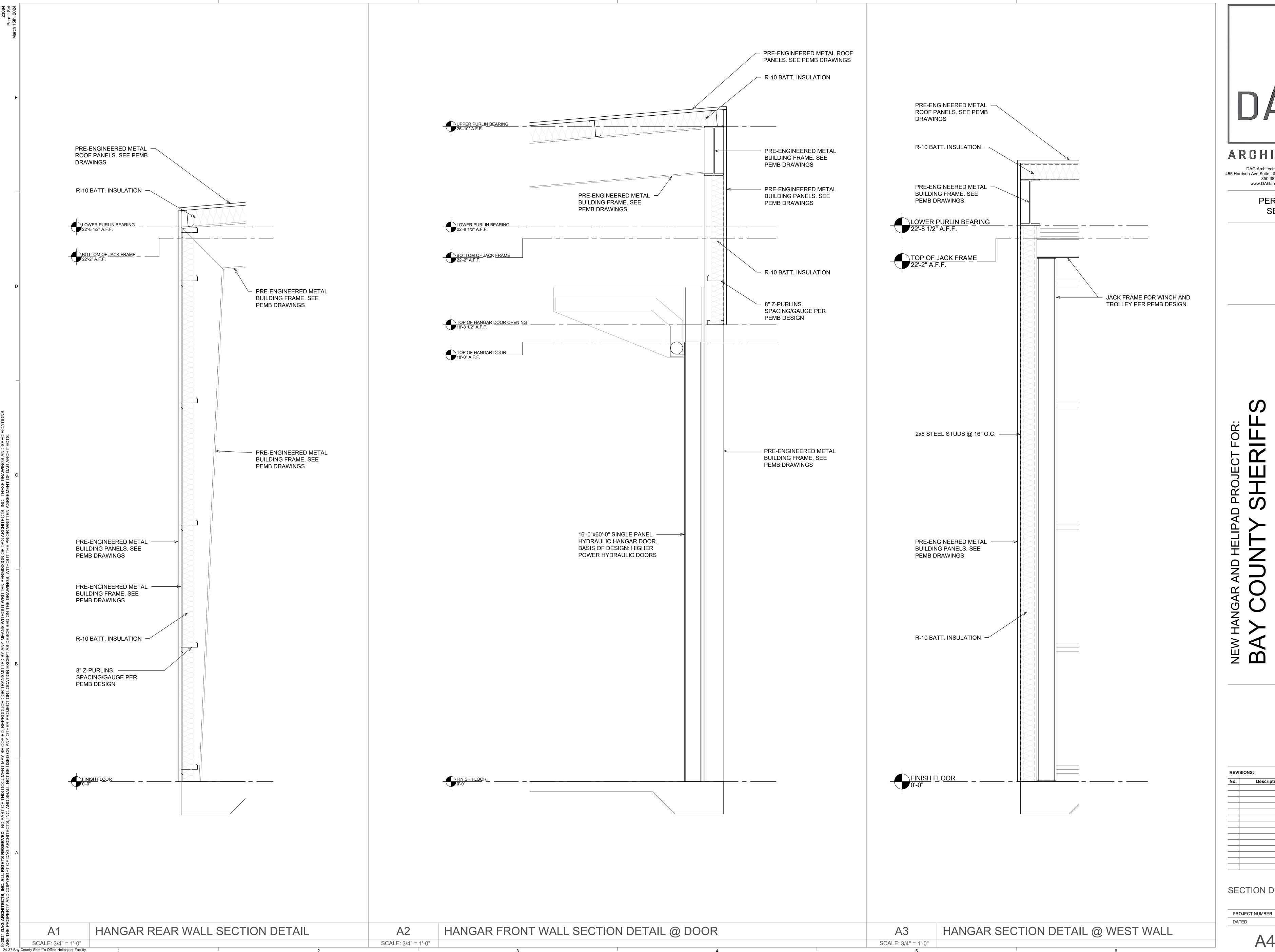
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SCALE: 1/4" = 1'-0"

24-37 Bay County Sheriff's Office Helicopter Facility

BUILDING SECTION



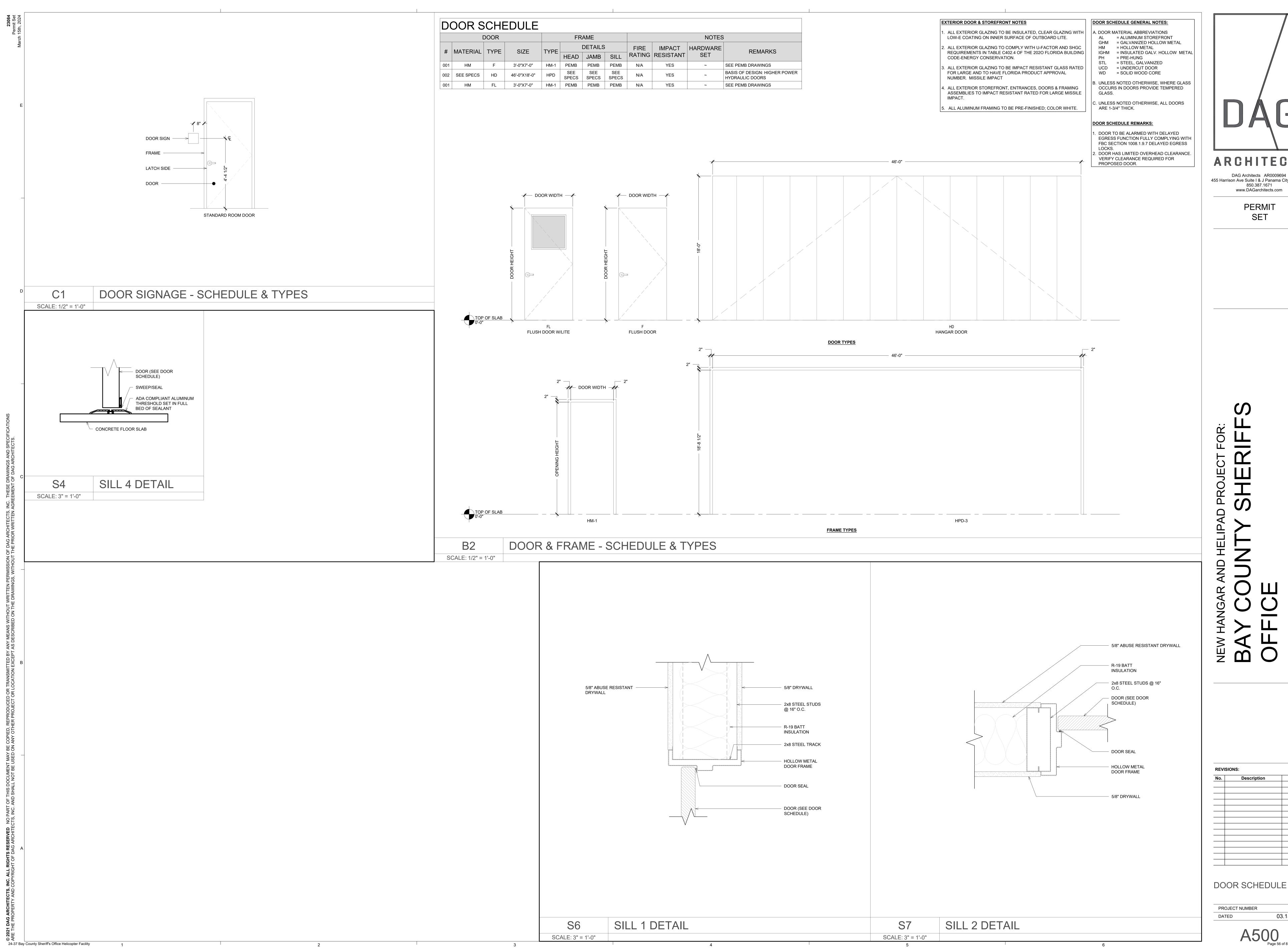
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DOOR SCHEDULE

03.15.2024

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT FDOT DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, UNLESS OTHERWISE STATED OR SHOWN IN THE PLANS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BAY COUNTY STANDARDS AND SPECIFICATIONS, UNLESS APPROVED BY BAY COUNTY. 3. WHERE THE FDOT DESIGN STANDARDS DIFFER FROM THE BAY COUNTY STANDARDS, THE MORE STRINGENT STANDARD SHALL APPLY, UNLESS APPROVED BY BAY
- 4. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR
- SOD THICKNESS. 5. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES
- LAST. UNTIL THEN, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES IS THE RESPONSIBILITY OF THE CONTRACTOR. 6. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES NOT SHOWN AS BEING REMOVED, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE
- THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME. 7. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (800-432-4770) AND UTILITY OWNERS LISTED BELOW AT LEAST TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. THE CONTRACTOR SHALL WAIT THE REQUIRED TIME FOR BURIED UTILITIES TO BE LOCATED AND MARKED. THE CONTRACTOR SHALL PROTECT THE MARKS DURING CONSTRUCTION. IF THE MARKS ARE DESTROYED, THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL FLORIDA AGAIN. THE CONTRACTOR SHALL DIG SAFELY, USING EXTREME CAUTION, WHEN DIGGING WITHIN 36 INCHES ON EITHER SIDE OF THE MARKS TO AVOID HITTING THE BURIED UTILITY LINES.
- 8. PROPOSED CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA), THE ADA COMPLIANCE HANDBOOK, LATEST EDITION, AND THE FLORIDA ACCESSIBILITY CODE. SIDEWALK CONSTRUCTION AND EXPANSION JOINT SPACING SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 522-001.
- 9. ALL INLETS SHALL BE PROTECTED AS PER FDEP BEST MANAGEMENT PRACTICES, AND THE FDEP/FDOT EROSION AND SEDIMENT CONTROL HANDBOOK. 10. THE CONTRACTOR SHALL PROTECT ALL GRASSED AREAS FROM DISCARDED CONCRETE AND EXCESS MATERIALS. ALL DISCARDED CONCRETE AND EXCESS MATERIALS
- SHALL BE REMOVED FROM THE RIGHT-OF-WAY (OR JOB SITE) ON A DAILY BASIS. 11. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION (STREET SIGNS) VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
- 12. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH MATERIALS FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY TO THE PROJECT ADMINISTRATOR. THE CONTRACTOR SHALL PROVIDE THE PROJECT ADMINISTRATOR WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE ENGINEER SHALL COORDINATE WITH THE PROJECT ADMINISTRATOR PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A
- HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED A MSDS SUBMITTAL. 13. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER IS TO NOTIFY THE PROJECT ADMINISTRATOR OF DISCOVERY. THE PROJECT ADMINISTRATOR WILL ARRANGE AN INVESTIGATION, IDENTIFICATION AND REMEDIATION OF THE HAZARDOUS MATERIAL.

THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE ENGINEER. THE PROJECT ADMINISTRATOR WILL

- ADVISE THE ENGINEER. 14. THE CONTRACTOR SHALL DISPOSE OF ALL DEBRIS UPON COMPLETION OF THE PROJECT.
- 15. THE EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE FDOT/FDEP EROSION & SEDIMENT CONTROL HANDBOOK.
- 16. ALL FILL MATERIAL SHALL BE SELECT FILL AS DEFINED BY FDOT DESIGN STANDARD INDEX. 17. CONTRACTOR SHALL NOTIFY ALL ADJACENT PROPERTY OWNERS, IF THEIR LANDSCAPING IS TO BE REMOVED, TO COORDINATE THE REMOVAL AND POSSIBLE
- 18. DEWATERING: SHOULD LOWERING OF GROUNDWATER BE NECESSARY FOR THE INSTALLATION OF CONCRETE STRUCTURES, OR TO PREVENT LATERAL MOVEMENT OF CONCRETE ALREADY PLACED, SUCH LOWERING SHALL BE ACCOMPLISHED BY MEANS OF A WELL POINT SYSTEM OR OTHER APPROVED MEANS, AT CONTRACTOR'S EXPENSE. COMPREHENSIVE PLANS FOR DEWATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING ASSOCIATED WITH DEWATERING.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING NPDES PERMIT. 20. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY METERS, VALVES, SERVICE LATERALS, FIRE HYDRANTS, MAINS, WATER, WASTEWATER, OR GAS FACILITIES
- DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
- 21. SWEEPING SHALL OCCUR DAILY OR IMMEDIATELY AFTER SUCH EVENTS THAT CAUSE TRACKING ONTO STREET.
- 22. ALL SIGNAGE IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE RELOCATED BY CONTRACTOR AT NO ADDITIONAL COST.
- 23. ANY SIGNS DAMAGED BY THE CONTRACTOR OR STOCKPILED BY THE CONTRACTOR THAT BECOME DAMAGED SHALL BE REPLACED.
- 24. ALL PROPOSED INLETS SHALL HAVE 12" SUMP BOTTOMS OPEN BOTTOMS SHALL NOT BE ALLOWED IN AREAS WHERE HIGH GROUNDWATER EXISTS. 25. CONTRACTOR SHALL PROVIDE SIX (6) SETS OF AS-BUILT DRAWINGS AND ONE (1) DIGITAL COPY IN AUTOCAD FORMAT OF THE COMPLETED PROJECT. THE AS BUILT
- DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR.
- 26. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
- 27. WATER MAINS AND SEWER FORCE MAINS SHALL BE FLUSHED FOR A DURATION OF AT LEAST THAT AMOUNT OF TIME NEEDED TO FLUSH FIVE TIMES THE PIPE VOLUME AFTER 3 FPS VELOCITY IS REACHED OR UNTIL CLEAR, WHICHEVER IS GREATER. MAXIMUM LENGTH OF PIPE BETWEEN FLUSHING ASSEMBLIES SHALL BE 5,000 FEET.
- 28. ALL ABANDONED UTILITIES SHALL BE REMOVED FROM THE GROUND, NOT ABANDONED IN PLACE.

CONSTRUCTION SEQUENCE AND BMP'S

- 1. THE INITIAL PART OF THE CONSTRUCTION PROCESS SHALL BE THE INSTALLATION OF SILT FENCE AROUND THE PERIMETER OF THE AREA THAT IS TO BE DISTURBED TO ENSURE NO TURBID RUNOFF LEAVES THE CONSTRUCTION SITE. THE SILT FENCE SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. IF THERE IS A POSSIBILITY OF RUNOFF TO A WATER BODY, TURBIDITY CURTAIN SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. THE SECOND STEP SHALL BE THE INSTALLATION OF THE CONSTRUCTION ENTRANCE AND DEMOLITION OF ANY EXISTING IMPROVEMENTS AS NEEDED (SEE DEMOLITION PLAN). THE THIRD STEP SHALL BE TO CLEAR AND GRUB AREAS WHERE IMPROVEMENTS ARE TO BE INSTALLED. AS FILL IS BROUGHT INTO THE SITE, THE STORM WATER BASIN SHOULD BE CREATED TO CAPTURE ANY OVERLAND FLOW AND ACT AS A SEDIMENT TRAP. IT IS RECOMMENDED THAT THE BASIN BE CONSTRUCTED APPROXIMATELY 1/2' HIGHER THAN DESIGN AT THIS POINT TO ENSURE ALL SILTS AND FINES ARE REMOVED AT THE TIME OF FINAL GRADING OF THE STORM WATER BASIN.
- 2. TYPICALLY, THE SANITARY SEWER, STORM SEWER, AND WATER MAINS ARE INSTALLED RESPECTIVELY, UPON INSTALLATION OF THE STORM SEWER, HAY BALES AND FILTER FABRICS SHALL BE USED AT ALL INLET OPENINGS PER THE CONSTRUCTION DETAILS TO KEEP THE SYSTEM FREE OF SEDIMENTS DURING THE CONSTRUCTION PHASE. DEPENDING ON SITE CONDITIONS AND SIZE, SEDIMENT TRAPS SHALL BE UTILIZED TO PREVENT TURBID RUNOFF FROM LEAVING THE SITE (SEE EROSION CONTROL PLAN).
- 3. SITE STABILIZATION SHALL BE PROVIDED AS SOON AS THE GRADING WILL ALLOW IN ORDER TO STOP EROSION AND REDUCE TURBID RUNOFF. SEEDING SODDING, OR HYDROSEEDING SHALL BE USED WHEN FINAL GRADES ARE ESTABLISHED.
- 4. EROSION CONTROL MEASURES SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND BE MANAGED IN ACCORDANCE WITH THE STATE
- 5. THE DESIGN OF THE STORM WATER MANAGEMENT SYSTEM FOR THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT.

UTILITY GENERAL NOTES:

- 1. ALL MAINS SHALL BE INSTALLED ACCORDING TO ENGINEERING PLANS AND SPECIFICATIONS. 2. ALL VALVES AND MATERIALS SHALL COMPLY WITH AWWA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS, LATEST
- 3. ALL MAIN LINE VALVES SHALL BE RESILIENT SEATED GATE VALVES. 4. THE CONTRACTOR WILL BE REQUIRED TO REMOVE & REPLACE ITEMS ENCOUNTERED IN THE FIELD, ie SIGNS, FENCING, POST,
- 5. MAINS SHALL HAVE A MINIMUM OF 36" COVER UNLESS APPROVED BY ENGINEER. 6. CONTRACTOR IS TO FURNISH "AS BUILT PLANS" INDICATING LOCATIONS OF ALL FITTINGS, VALVES, AND DEAD END RUNS WITH DIMENSIONS TO THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.).
- 7. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600. 8. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ENGINEER 48 HOURS PRIOR TO PRESSURE TESTING, DISINFECTION, AND
- BACTERIOLOGICAL TESTING. PRESSURE TESTING SHALL BE VALVE TO VALVE. CONTRACTOR SHALL USE 2" AIR RELEASE VALVE PORTS OR SHALL TAP THE WATER MAIN WITH A 1" TAPPING SADDLE.
- 9. BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED FOR FILL.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FITTINGS, TAPS, EQUIPMENT AS REQUIRED FOR FLUSHING SYSTEM, PRESSURE TESTING, DISINFECTION, AND BACTERIOLOGICAL TESTING. 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES, AND TO
- DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK, AND TAKE WHATEVER STEP NECESSARY TO PROVIDE FOR THEIR PROTECTION. 12. UTILITIES SHOW ON THE PLAN MAY NOT BE ACCURATE AND ALL UTILITIES MAY NOT BE SHOWN.
- 13. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
- 14. ALL VALVE BOXES SHALL BE INSTALLED PER DETAIL SHOWN. PRE-CAST VALVE PADS SHALL NOT BE USED. ALL VALVE BOX RISERS SHALL BE DUCTILE IRON, NOT PVC.
- 15. ALL PAVEMENT SHALL BE CUT AND PATCHED IN ACCORDANCE WITH ENGINEERING PLANS AND SPECIFICATIONS. 16. ALL CONCRETE ENCASED DUCTILE IRON SHALL BE WRAPPED WITH A PLASTIC MATERIAL AND TAPED TOGETHER BEFORE
- CONCRETE IS PLACED AROUND THE PIPE. 17. WHERE THERE IS LESS THAN 12" CLEARANCE BETWEEN PVC/DI PIPE AND OTHER PIPE OR SPECIFIED AREAS, THE PIPE SHALL BE ENCASED WITH 6" THICKNESS AROUND THE PIPE AND 6' CLEARANCE EACH WAY IN THE AXIAL DIRECTION. 18. THE CONTRACTOR SHALL REMOVE AND REPLACE, TO THEIR ORIGINAL NATURE, ALL DISTURBED MATERIALS OR OBJECTS
- BE APPROVED BY THE ENGINEER. THIS INCLUDES ALL LANDSCAPING WITHIN THE RIGHT OF WAY IN THE PATH OF THE NEW 19. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING. THE SURVEY MAY NOT SHOW ALL OBJECTS WITHIN THE PATH OF THE NEW UTILITIES. IF OBJECTS ARE NOT SHOWN ON THE SURVEY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN 7

WITHIN THE PATH OF THE NEW UTILITIES AS NECESSARY. ALL REPLACED MATERIALS SHALL BE EQUAL OR BETTER AND SHALL

- DAYS PRIOR TO THE BID DATE. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ALL OBJECTS NOT SHOWN ON THE
- 20. ALL CONSTRUCTION AREAS NEAR WETLANDS ARE TO BE MONITORED CLOSELY FOR EROSION. SILT FENCE AND HAY BALES SHALL BE USED IN THESE AREAS. CONTRACTOR SHALL FOLLOW ALL THE FDEP/COE DREDGE AND FILL PERMIT REQUIREMENTS IF APPLICABLE. SEE SPECIFICATIONS.
- 21. ALL SPOIL MATERIAL SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA.
- 22. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION INTO NEARBY WETLANDS.
- 23. THE CONTRACTOR SHALL USE RESTRAINED JOINT PIPE FOR ALL BENDS, TEES, VALVES, AND TRANSITION FITTINGS. 24. INSULATED 10 GA. LOCATING WIRE SHALL BE INSTALLED ON TOP OF ALL NON-METALIC PIPE. WHICH INCLUDES SERVICE CONNECTIONS. ALL LOCATING WIRE SHALL BE CONNECTED AND SHALL TERMINATE IN VALVE BOXES AND METER BOXES AS
- SHOWN IN THE DETAILS. 25. ALL PIPE SHALL BE INSTALLED IN DRY CONDITIONS. WELL POINTING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
- WELL POINTS OR SOCK PIPE MAY BE USED.
- 26. CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CONSTRUCTION. 27. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF THE PERMIT REQUIREMENTS. SEE SPECIFICATIONS FOR COPY OF
- 28. ALL DISTURBED AREAS SHALL BE SODDED. 29. A 30 INCH STRIP OF SOD SHALL BE INSTALLED ON THE EDGE OF ALL PAVED AREAS AND AROUND ALL ABOVE GROUND
- CONCRETE STRUCTURES INCLUDING BUT NOT LIMITED TO VALVE PADS, BLOW OFF VAULTS, AND AIR RELEASE VAULTS.
- 30. CONTRACTOR SHALL PROVIDE ALL FITTINGS, SLEEVES AND TRANSITION ADAPTERS AS NECESSARY TO COMPLETE THIS
- 31. CONTRACTOR SHALL COMPLETE RESTORATION WITHIN 2 WEEKS OF SUCCESSFUL PIPE PRESSURE TESTING AT ANY GIVEN LOCATION. TEST SHALL BE PERFORMED VALVE TO VALVE WITHIN ONE WEEK OF COMPLETING THAT SECTION. PRESSURE
- TESTING SHALL TAKE PLACE EVERY 2 WEEKS DURING CONSTRUCTION FOR ANY PIPE INSTALLED IN THAT PERIOD. 32. CALL THE BAY COUNTY UTILITY DEPARTMENT 72 HOURS IN ADVANCE OF TAPPING OR CONNECTING TO ANY COUNTY UTILITIES

EARTHWORK AND PAVING NOTES:

- 1. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED, MULCHED, SODDED, STABILIZED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, WITHIN FIVE (5) DAYS AFTER
- 2. ALL FILL MATERIAL SHALL NOT INCLUDE ORGANIC, OR OTHER DELETERIOUS MATERIALS AND BE CLEAN SAND MATERIAL OF WHCH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH SIEVE. IF ANY FILL MATERIAL IS PLACED WITHIN THE STORMWATER MANAGEMENT FACILITIES IT MUST HAVE INFILTRATION RATES EQUAL TO OR GREATER THAN THE EXISTING SOILS AS STATED IN THE GEOTECHINCAL ENGINEERING REPORT.
- 3. ORGANIC, UNSUITABLE SOILS BENEATH THE PAVED AND BUILDING PAD AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN SAND MATERIAL OF WHICH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH SIEVE. FILL MATERIAL SHALL BE FREE OF ORGANICS, RUBBLE, CLAY, OR OTHER DELETERIOUS MATTER.
- 4. THE PAVEMENT SUBGRADE SHOULD BE STABILIZED TO AN LBR OF 40. MATERIAL FOR STABILIZATION SHALL BE EITHER LIMEROCK, CRUSHED SHELL, OR OTHER MATERIAL APPROVED BY THE ENGINEER. STABILIZING MATERIALS MUST BE IN CONFORMANCE WITH FDOT SPECIFICATIONS.
- 5. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- 6. PROPOSED SPOT ELEVATIONS REPRESENT PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- 7. CONTRACTOR TO PROVIDE 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC.)
- 8. THE GEOTECHNICAL ENGINEERING REPORT PERFORMED BY MAGNUM ENGINEERING DATED JANUARY 19, 2024 WNCOUNTERED CLAYEY SANDS AT DEPTHS OF 1' TO 2' BELOW EXISTING GRADE. IF THESE SOILS ARE DISCOVERED TO BE PRESENT WITHIN THE STORMWATER MANAGEMENT FACILITY POND BOTTOM DURING CONSTRUCTION THEY WILL NEED TO BE REMOVED AND REPLACED BY CLEAN SAND MATERIAL. THE CLEAN SAND MATERIAL SHALL BE COMPOSED OF SOIL WHICH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH AND FREE OF ORGANICS OR OTHER DELETERIOUS MATTER.

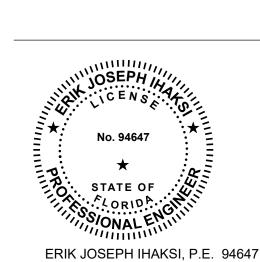


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EB 0008794 **REVISIONS:**

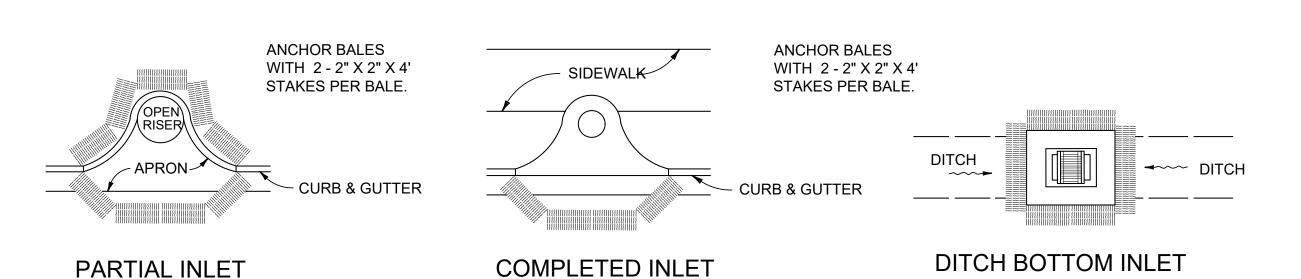
GENERAL NOTES

JANUARY 31, 2024

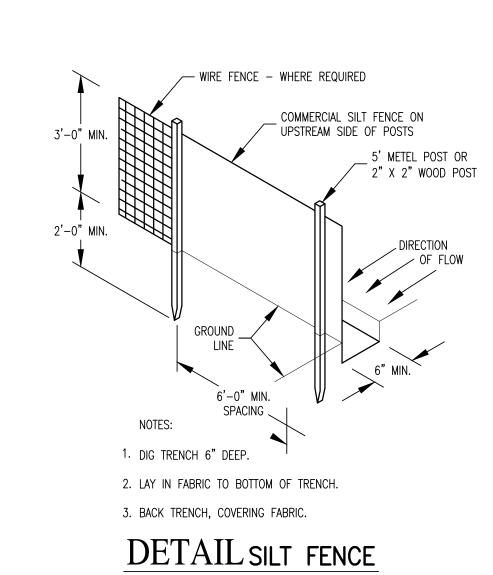
24-37 Bay County Sheriff's Office Helicopter Facility

) SILT FENCE SHALL BE USED/PLACED AT THE DIRECTION OF THE ENGINEER AND TO COMPLY WITH THE FDEP/NPDES PERMITTING.

DETAIL SILT FENCE APPLICATIONS



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



EROSION AND SEDIMENT CONTROL NOTES:

- 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.
- AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG, NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY **EROSION CONTROL IF FINAL GRADING AND STABILIZATION** WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS. FAILURE TO STABILIZE EXPOSED SOIL AREAS IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF CHAPTERS 62-3, 62-12, AND/OR 62/25, FLORIDA ADMINISTRATIVE CODE, BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND SUBJECT TO CORRECTIVE ACTION, PURSUANT TO SECTION 403.121-403.161 FLORIDA STATUTES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.
- TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, BALED HAY OR STRAW, SILT FENCES, AND TURBIDITY BARRIERS. TEMPORARY EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS.
- PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS. PERMANENT EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTIONS 570 AND 575 OF THE FDOT STANDARD SPECIFICATIONS. SEED OR GRASS TYPE SHALL MATCH EXISTING OR BE AS SPECIFIED BY OWNER UNLESS NOTED OTHERWISE.
- GRASS BY SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. THIS SHALL BE USED ONLY IN AREAS SUBJECT TO LIGHT EROSION SUCH AS FLAT AREAS.
- GRASS BY HYDRO-SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. HYDRO-SEEDING MAY BE USED FOR FLAT AREAS AND SIDE SLOPES WHICH DO NOT EXCEED 2:1. DRAINAGE DITCHES OR LARGE SWALES MUST HAVE ADDITIONAL PROTECTION BESIDES HYDRO-SEEDING.
- GRASS AND MULCH SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. GRASS AND MULCH MAY BE USED IN ALL AREAS EXCEPT LARGE SWALES OR DITCHES. MULCH SHALL BE ANCHORED IN ACCORDANCE WITH SECTION 570.
- SOLID SOD SHALL BE IN ACCORDANCE WITH SECTIONS 104, 575, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. SOD MAY BE USED IN ALL AREAS FOR SIDE SLOPES GREATER THAN OR EQUAL TO 3:1. SOD SHALL BE STAGGERED SO AS TO AVOID A CONTINUOUS SEAM. IN AREAS WITH SLOPES 4:1 OR STEEPER, EACH PIECE OF SOD SHALL BE PEGGED WITH SOD PEGS. IN DIFFICULT SOIL CONDITIONS WITH STEEP SLOPES, IT MAY NECESSARY TO COVER SOD WITH ARTIFICIAL COVERINGS SUCH AS JUTE MESH UNTIL SOD BECOMES ESTABLISHED.
- 10. TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH, AND DRAINAGE FABRICS. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETA-TION TO FUNCTION PROPERLY.
- THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CON-STRUCTION 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 AUTHORIES. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION
- 12. CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CON-STRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
- 13. IF WIND EROSION BECOMES SIGNIFICANT DURING CON-STRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE

STORMWATER POLLUTION PREVENTION PLAN:

- A. CONSTRUCTION ACTIVITY: NEW HANGAR AND HELIPAD APRON. PROJECT LIMITS: SEE SHEET C4 PROJECT DESCRIPTION: CONSTRUCTION OF A NEW HELICOPTER HANGAR WITH THE SUPPORTING STORMWATER,
- B. MAJOR SOIL DISTURBING ACTIVITIES: CLEARING AND GRUBBING OVER PROJECT LIMITS, EXCAVATION OF A STORMWATER FACILITIES, CONSTRUCTION OF ROADWAYS, AND INSTALLATION OF UTILITIES.
- C. TOTAL PROJECT AREA: 0.96 ACRES TOTAL SOIL AREA TO BE DISTURBED: 0.96 ACRES
- D. (1) RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION: BEFORE: 0.40, DURING: 0.50, AFTER: 0.54 (2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: N/A (3) ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL: SEE PLANS
- E. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS: SEE PLANS
- F. (1) NAME OF RECEIVING WATERS: CHARLIE WILLIAMS BRANCH. (2) WETLAND AREA: NO DISTURBANCE TO WETLANDS ARE ANTICIPATED

UTILITIES, AND SITEWORK AS ILLUSTRATED IN THIS SET OF PLANS.

- 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.
- **EROSION AND SEDIMENT CONTROLS:** (1) STABILIZATION PRACTICES: TEMPORARY SODDING X TEMPORARY GRASSING X PERMANENT PLANTING, SODDING, OR SEEDING TEMPORARY MULCHING ARTIFICIAL COVERING X BUFFER ZONES X PRESERVATION OF NATURAL RESOURCES
- (2) STRUCTURAL PRACTICES: SAND BAGGING X SILT FENCES X HAY BALES DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
 - X STONE OUTLET STRUCTURES X STORM SEWERS X VELOCITY CONTROL DEVICES X ROCK BEDDING AT CONSTRUCTION EXIT TURBIDITY BARRIER
- TIMBER BEDDING AT CONSTRUCTION EXIT X RIP RAP DESCRIPTION OF STORMWATER MANAGEMENT: ERP AND BAY COUNTY REQUIREMENTS FOR TREATMENT AND ATTENUATION.
- PROPOSED STORMWATER MANAGEMENT FACILITIES WILL DISCHARGE TO UNNAMED WETLANDS AND ULTIMATELY TO CHARLIE

SEDIMENT BASINS

STORM INLET SEDIMENT TRAP (ROCK BAGS)

- B. 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
- C. APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: ERP STORMWATER PERMIT.

FLUMES

- 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.
- A. ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.50" 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.
 - 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 EVERYWEEK. 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
- C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
- 5. THE DEVELOPER AND/OR 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 DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE ENGINEERING DEPARTMENT AT FDEP 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.

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ERIK JOSEPH IHAKSI, P.E. 94647 EB 0008794

JANUARY 31, 2024

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ARE THE PROPERTY AND C
February 6, 2024 (11:09:13 EST)

K:\50171019_DAG_BAY COUNTY AI

Consider the specific of the second of the

TEMPORARY SITE CONTROL POINTS:

DESCRIPTION

NORTHING
EASTING
ELEV. (NAVD 1988)

11 SET NAIL AND DISK L.B. 8011
474608.59'
1602633.75'
25.20'
172 SET NAIL AND DISK L.B. 8011
474862.04'
1602614.12'
26.08'



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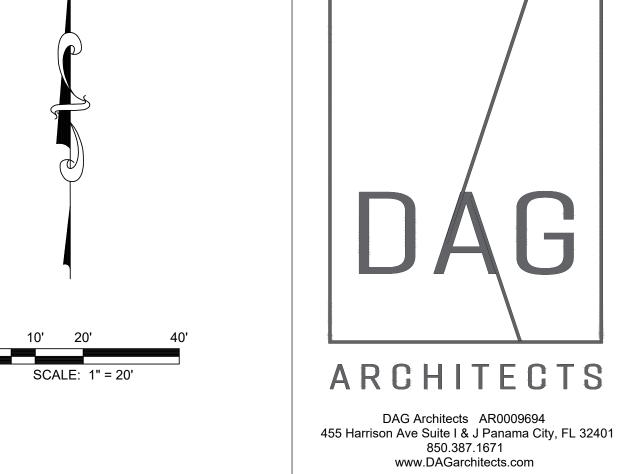
REVISIONS:

No. Description Date

DEMO & EROSION CONTROL PLAN

C3

PROJECT NUMBER 50171019
DATED JANUARY 31, 2024



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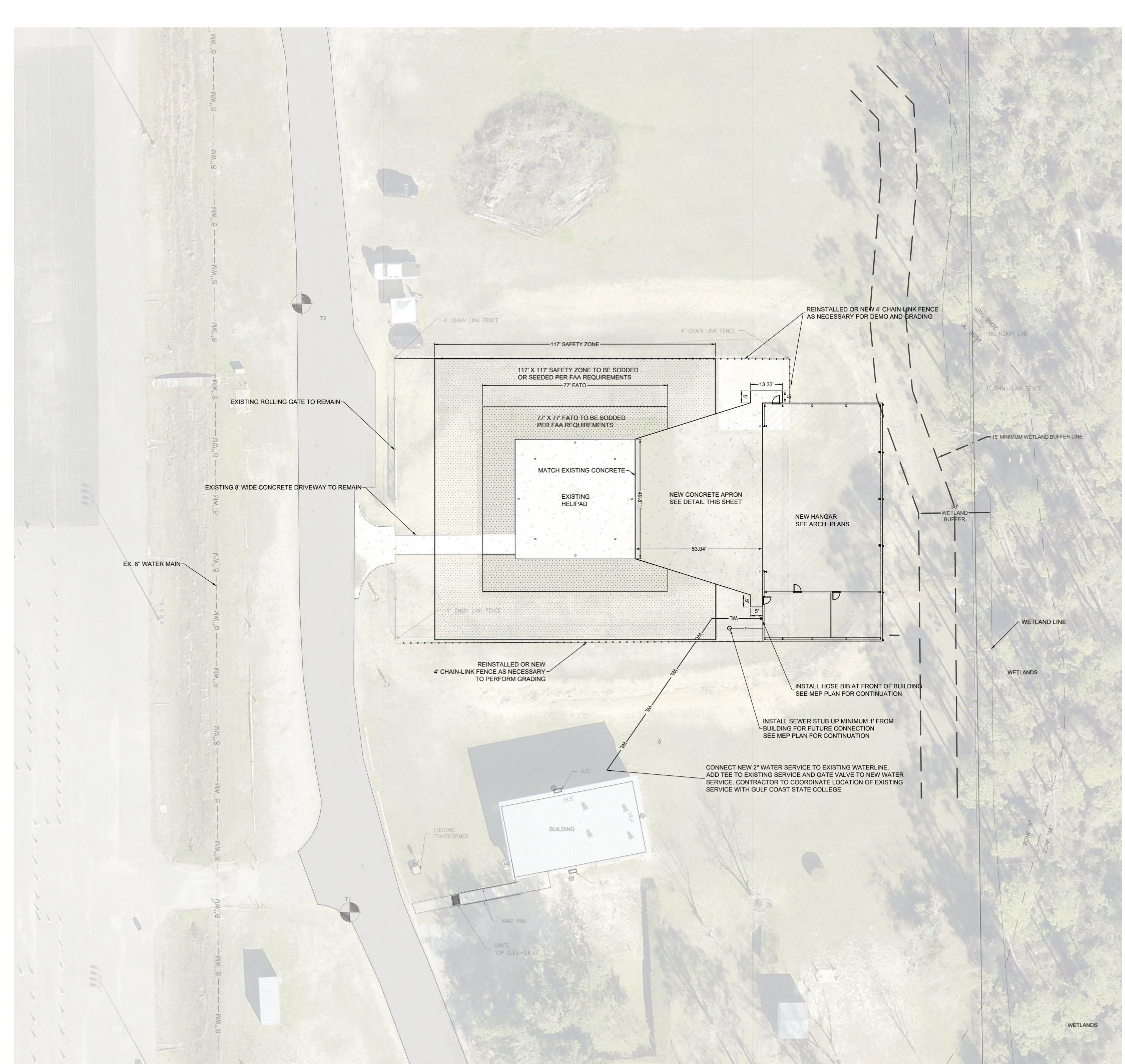
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EB 0008794

REVISIONS:

SITE PLAN

PROJECT NUMBER JANUARY 31, 2024 DATED



1. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF EXISTING UTILITIES. 2. 2" PVC WATERMAIN SHALL BE ASTM D2241 DR21, PRESSURE CLASS 200 PSI. 3. PVC WATER MAIN SHALL BE BLUE.

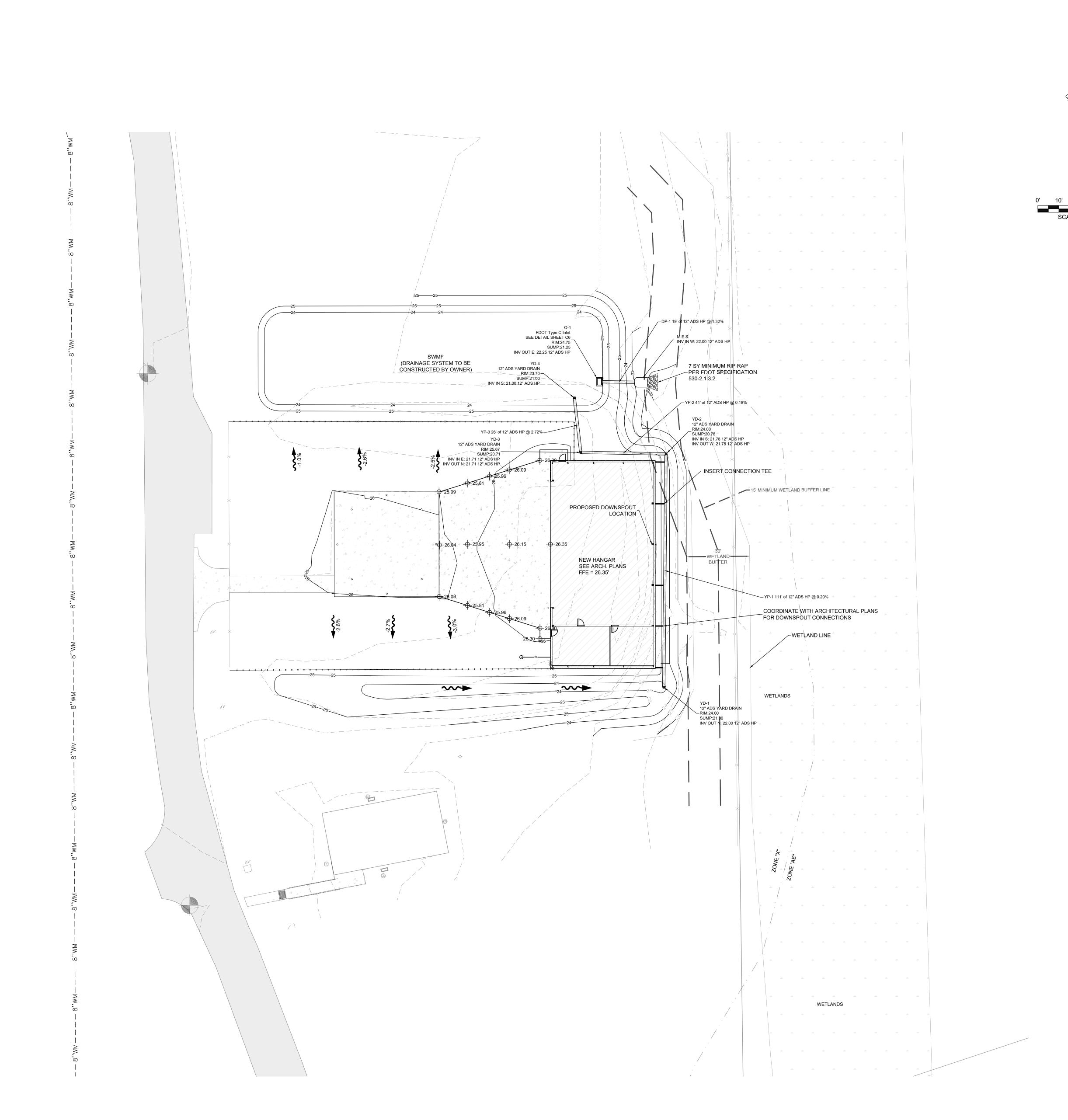
UTILITY NOTES:

4. ALL UTILITIES SHALL BE IN ACCORDANCE WITH BAY COUNTY MANUAL OF STANDARDS AND SPECIFICATIONS FOR WATER AND WASTEWATER CONSTRUCTION.

> _ 4" OF 3,500 PSI FIBER REINFORCED CONCRETE PER FAA PAVEMENT SPECIFICATION P-501

12" COMPACTED SUBGRADE STABILIZED TO MIN. LBR 40 CONTROL JOINT SPACING: 10'X10' RECOMMENDED SAWCUT: 2" DEEP DETAIL HEAVY DUTY CONCRETE APRON SCALE: N.T.S.

24-37 Bay County Sheriff's Office Helicopter Facility





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RIFFS

BAY COUNTY STE OFFICE

ERIK JOSEPH IHAKSI, P.E. 94647 EB 0008794

REVISIONS:

No. Description Date

GRADING & DRAINAGE PLAN

C5

PROJECT NUMBER 50171019
DATED JANUARY 31, 2024

Dago 61 of 9

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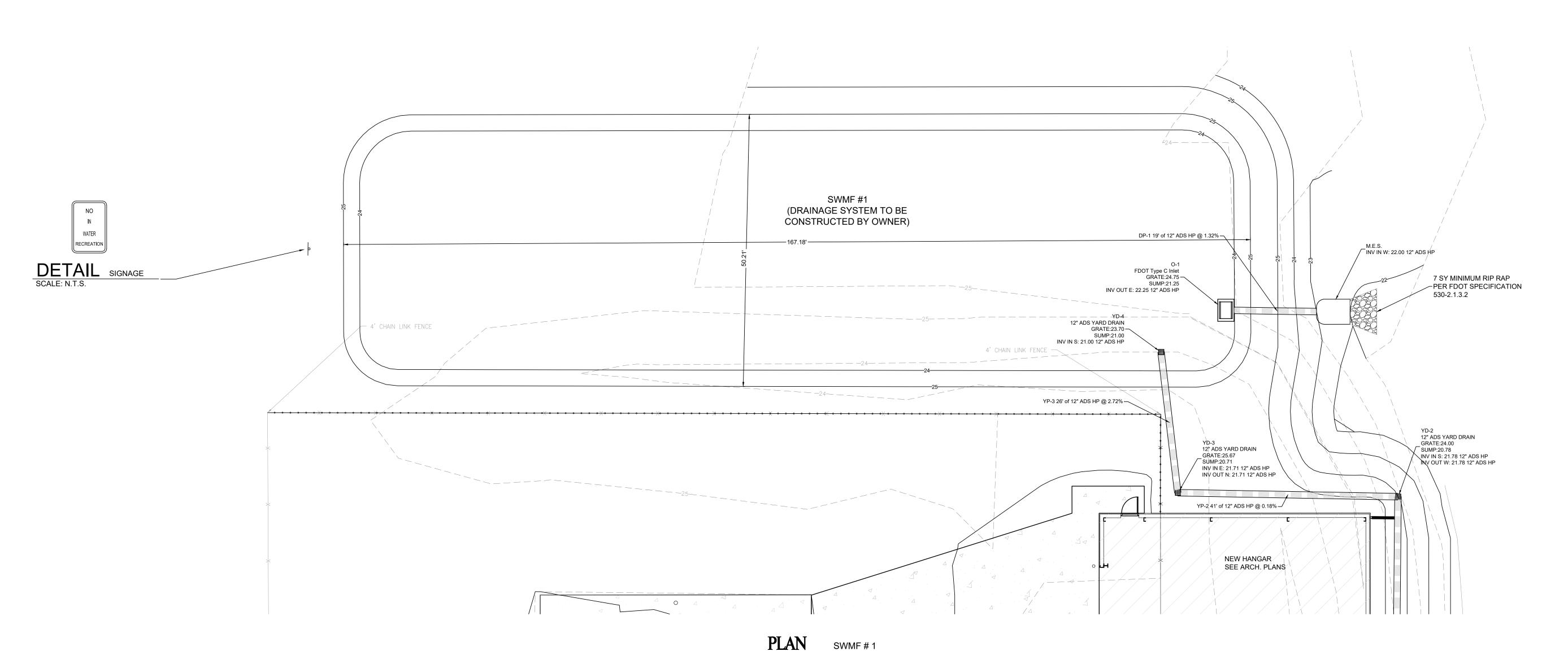
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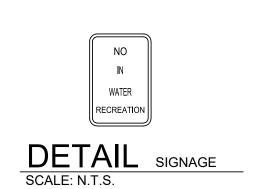
850.522.0644



SCALE: 1"=10'

THE GEOTECHNICAL ENGINEERING REPORT PERFORMED BY MAGNUM ENGINEERING DATED JANUARY 19, 2024 ENCOUNTERED CLAYEY SANDS AT DEPTHS OF 1' TO 2' BELOW EXISTING GRADE. IF THESE SOILS ARE DISCOVERED TO BE PRESENT WITHIN THE STORMWATER MANAGEMENT FACILITY POND BOTTOM DURING CONSTRUCTION THEY WILL NEED TO BE REMOVED AND REPLACED BY CLEAN SAND MATERIAL. THE CLEAN SAND MATERIAL SHALL COMPOSE OF SOIL OF WHICH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH SIEVE.

ALL SLOPED SURFACES SHALL BE STABILIZED _ <u>SEASONAL HIGH WATER TABLE ELEV. = 22.70'</u> WITH LAPPED AND PINNED SOD-BERMUDA 419. SECTION TYPICAL POND SECTION ALL DISTURBED FLAT SURFACES SHALL BE STABILIZED PURSUANT TO THE FOLLOWING HYDROSEED MIX: SCALE: N.T.S. PLANTING DATE OF APRIL 1 - OCTOBER 31 HULLED BERMUDA @ 2LBS PER 1000 S.F. BROWN TOP MILLET - @ 8LB PER 1,000 S.F. 70/30 MULCH @ 50 LBS PER 1,000 S.F. 16-16-16 FERTILIZER @ 4LBS PER 1,000 S.F. PLANTING DATE OF NOVEMBER 1 - MARCH 31 UNHULLED BERMUDA @ 2LBS PER 1000 S.F. ANNUAL RYE - @ 8LB PER 1,000 S.F.



STORMWATER OPERATION/MAINTENANCE PLAN

OPERATION AND MAINTENANCE ENTITY IS BAY COUNTY

3. DEBRIS IN RETENTION/DETENTION AREAS – ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED

PERIODIC POND/SYSTEM MAINTENANCE

3. MOWING AND LANDSCAPING MAINTENANCE SHOULD BE DONE ON A MONTHLY BASIS DURING THE ACTIVE GROWING SEASON FOR THE AREA. INSPECT AND MAINTAIN AS REQUIRED DURING THE GROWING

6. THE OWNER SHALL RE-GRADE AND RE-STABILIZE SWALE/RETENTION/DETENTION AREAS AS REQUIRED TO

4. YARD INLETS, CATCH BASINS, ETC. – ALL DEBRIS AND FOREIGN MATERIALS SHALL BE REMOVED IMMEDIATELY.

 CLEANING/SWEEPING OF PAVEMENT AREAS SHALL BE ACCOMPLISHED WEEKLY OR AS REQUIRED. 2. INSPECT POND PERIODICALLY FOR ACCUMULATION OF TRASH AND DEBRIS AND REMOVE IT UPON

7. REMOVE SEDIMENT FROM POND WHEN ACCUMULATION REACHES FOUR (4) INCHES. MEASURE

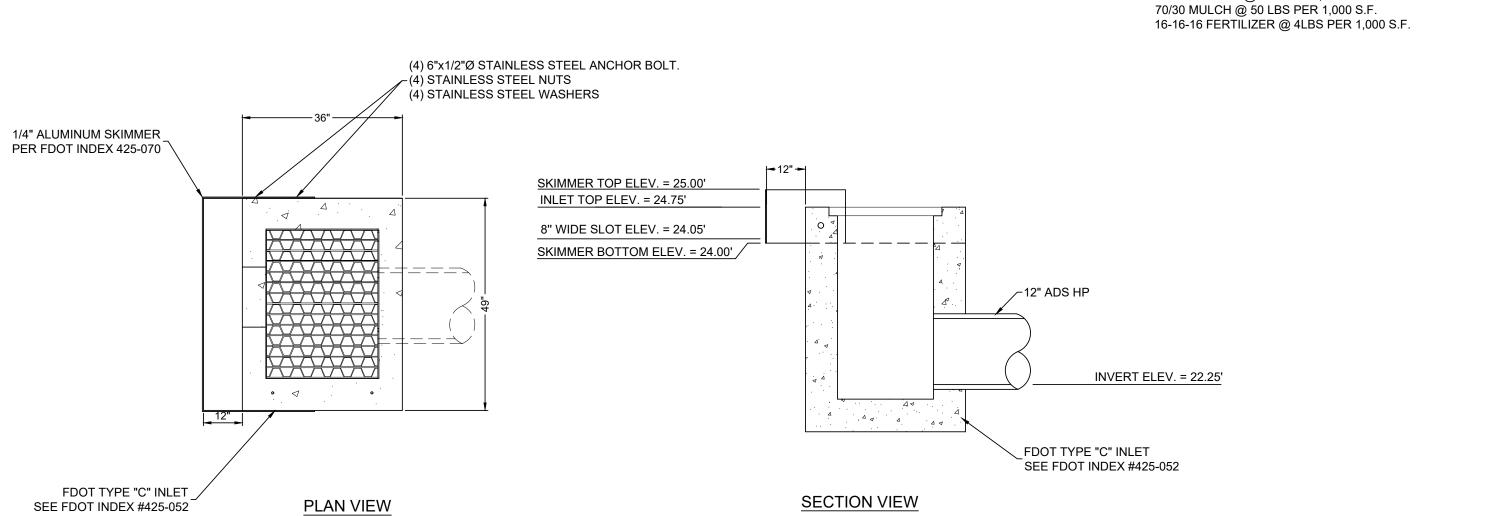
1. PAVEMENT AREAS – CLEAN/SWEEP DEBRIS AND DIRT FROM PAVEMENT AREAS.

2. SEDIMENTS IN RETENTION/DETENTION AREAS - REMOVED IMMEDIATELY.

4. WEEDS OR UNDESIRABLE GROWTH SHALL BE REMOVED UPON DISCOVERY.

MAINTAIN THE APPROVED DESIGN, CROSS-SECTION, LINE, AND GRADE.

AFTER EACH RAINFALL EVENT



ACCUMULATION ONCE A YEAR.

APPROVED BY THE FDEP AND/OR NWFWMD.

5. CATCH BASINS SHALL BE FLUSHED AS NECESSARY (IF ANY).

1. A MAINTENANCE INSPECTION MUST BE PERFORMED EVERY THIRD YEAR BY A REGISTERED PROFESSIONAL.

2. THE MAINTENANCE INSPECTION MUST BE DOCUMENTED ON THE FDEP AND/OR NWFWMD STANDARD INSPECTION FORM 62-330.311(1). 3. THE INSPECTION MUST BE SIGNED, SEALED, AND DATED BY THE REGISTERED PROFESSIONAL. 4. THE INSPECTION MUST BE CONDUCTED USING THE PLANS, CALCULATIONS AND SPECIFICATIONS

SWMF DETAILS

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EB 0008794

Description

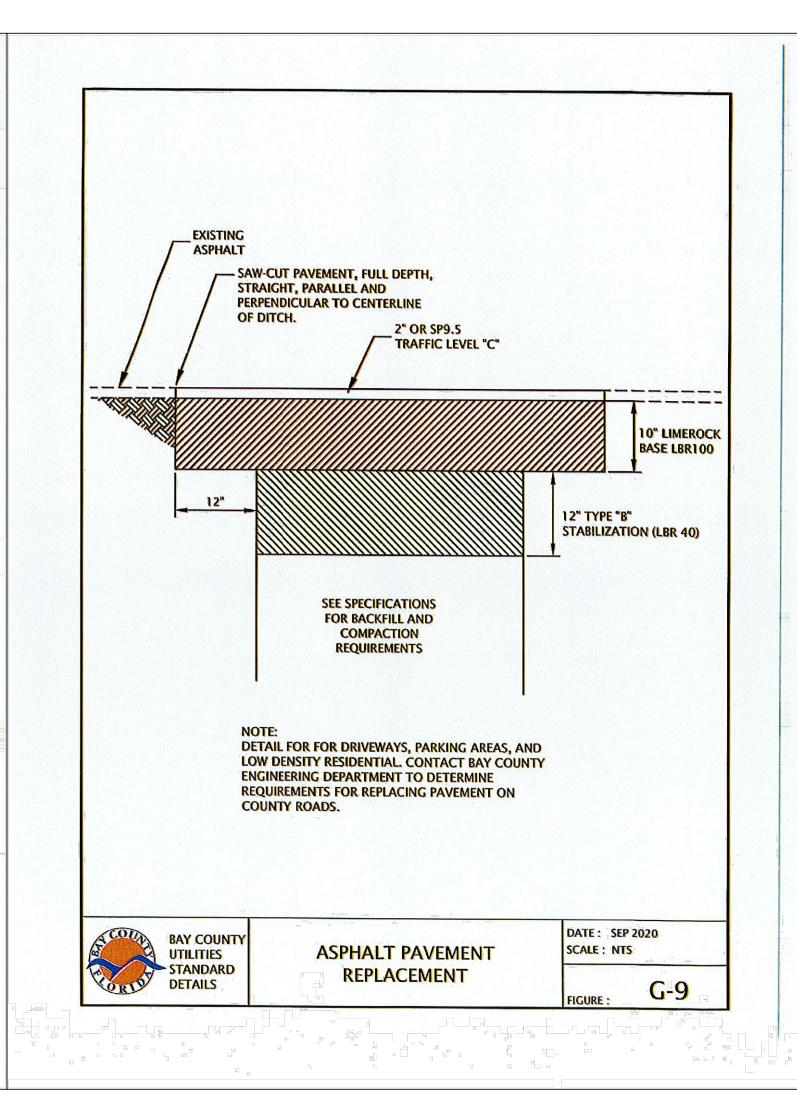
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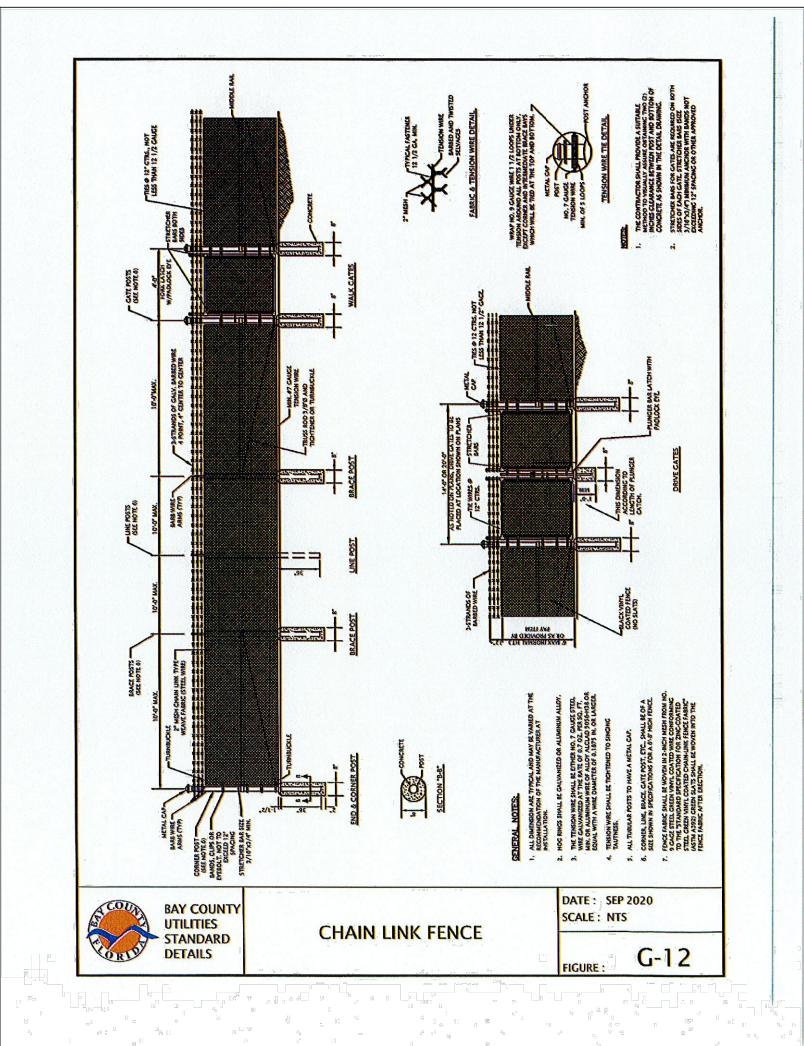
PROJECT NUMBER JANUARY 31, 2024 DATED

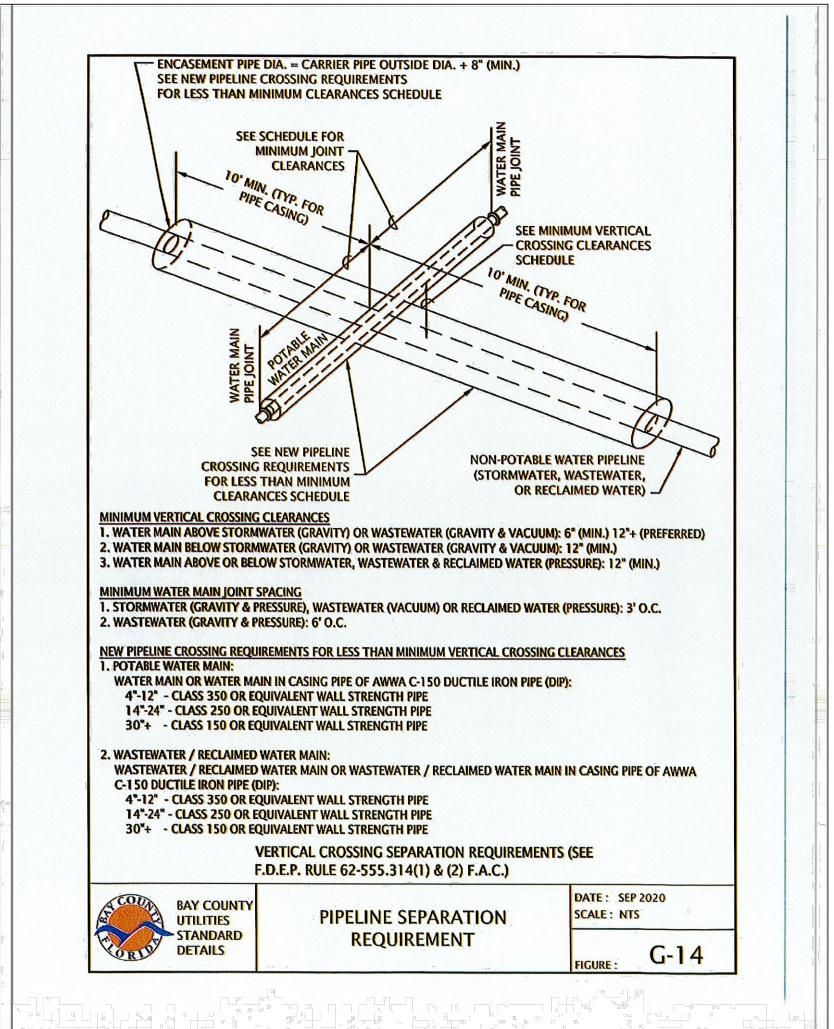
DETAIL TYPE C CONCRETE DISCHARGE STRUCTURE (O-1)

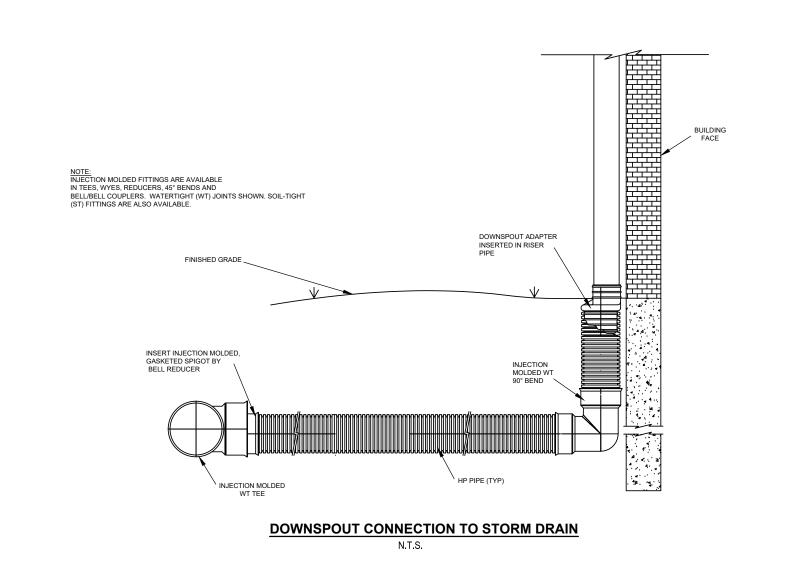
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MISCELLANEOUS DETAILS

D1

PROJECT NUMBER 50171019
DATED JANUARY 31, 2024

Dago 62 of 97

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO A/V DRAWINGS FOR REQUIRED RACEWAYS, EXACT SIZE, AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.

2. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.

3. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL 'AV' EQUIPMENT LOCATIONS TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.

4. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.

5. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.

6. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.

7. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.

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

9. FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.

MARK MANUFACTURER AND CATALOG No.

LFP4 | H.E. WILLIAMS #LT-24-L64-835-AF-DIM-UNV

WBE | H.E. WILLIAMS #VWPH-L60-740-TFT-CGL-DIM-UNV

BP CHLORIDE CLU2NW

BPX | CHLORIDE CLCNRW

10. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE, 2017 NATIONAL ELECTRIC CODE AND 2023 FBC. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.

11. OBTAIN ARCHITECT'S/ENGINEER'S APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.

12. TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75deg C PER NEC 2011 ART. 110.14 & TABLE 310.15(B)(16). 13. WHERE USED, PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH

CIRCUITS IN ACCORDANCE WITH NEC 210.4(B).

24-37 Bay County Sheriff's Office Helicopter Facility

ELECTRICAL LEGEND

'A' RECESSED 2' X 4' LED/FLUORESCENT FIXTURE MARK "A" CIRCUIT TYPICAL

'A' O SURFACE/SUSPENDED 4' MODULAR HIGH BAY LED/FLUORESCENT FIXTURE MARK "A" CIRCUIT TYPICAL

<u>Panels and Power</u>

120/208 VOLT PANELBOARD

NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

S A.C. TYPE, 20 AMP, 120/277 VOLT

120/277V WHITE THERMOPLASTIC EMERGENCY BATTERY PACK... FURNISH W/ SELF-TEST DIAGNOSTICS

4' LED, MODULAR HIGH BAY, STD 0-10V DIMMING, UNV VOLT, FIXT TO BE FURNISHED W/ CAST

EXTERIOR WALLPACK, FINISHED BY ARCH., 120V... FURNISH W/ EMERGENCY

EXTERIOR WALLPACK, FINISHED BY ARCH., 120V... FURNISH W/ EMERGENCY

BACKUP BATTERY FOR EMERGENCY EGRESS CODE COMPLIANCE

BACKUP BATTERY FÓR EMERGENCY EGREŚS CODE COMPLIANCÉ.

IRON HUB MT FOR SINGLE 3/4"C PDT MT; EC TO FURN PDT & FIELD-CUT FOR DESIRED H

WHITE THERMOPLASTIC BATTERY PACK/EXIT SIGN COMBO, 120/277V...FURNISH W/

SELF-TEST DIAGNOSTICS

49W 3500K LED CEILING LAY-IN 2'X4' LED FLAT PANEL LAY-IN, STD 0-10V DIMMING, 120V.

<u>MISCELLANEOUS</u>

LIGHTING FIXTURE SCHEDULE

70W 4000K LED WALL (SEE DWG)

No. TYPE

HB | H.E. WILLIAMS #GS-4-L360-850-HA-MD-(L270)-GS-HUB MT-DIM-UNV | 175W 4000K LED | PENDANT MOUNT

WB36E H.E. WILLIAMS #VWPH-L30-740-T3-SDGL-EM/10WC-DIM-UNV 36W 4000K LED WALL (SEE DWG)

A.F.F. ABOVE FINISH FLOOR

B.F.C. BELOW FINISHED CEILING

RUN CONCEALED UNDER FLOOR OR IN GRADE

HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2#12, 1#12 GROUND-1/2"C; \longrightarrow 3 #12, 1 #12 GROUND - 1/2" C; \longrightarrow "4#12, "1#12 GROUND - 1/2" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT

DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE,

 $G \Longrightarrow DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE,$

WP⇒ DUPLEX <u>WEATHERTIGHT</u> RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE,

DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE,

DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE,

⇒G DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE,

QUADRAPLEX RECEPTACLE — 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE

TO BE INSTALLED); SIZE OF BOX TO BE DETERMINED BY DEVICE BEING INSTALLED

WALL MOUNTED EMERGENCY UNIT BATTERY PACK

BRANCH CIRCUITING

RUN CONCEALED IN CEILING OR WALLS

NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.

LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION

SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPINDICULAR TO BUILDING LINES

WALL OUTLETS

NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE

NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE

NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF

NEMA 5-20R. MOUNT ADJACENT TO TELEVISION OUTLET AT SAME HEIGHT.

NEMA 5-20R. MOUNT 6" ABOVE COUNTER

NEMA 5-20R. MOUNT 6" ABOVÉ COUNTER

SURFACE-MOUNTED JUNCTION BOX WITH BLANK SCREW COVER (UNLESS DEVICE SHOWN TO BE INSTALLED). SIZE OF BOY TO BE DETERMINED BY DEVICE OF SOME

HO WALL MOUNTED HIGH INTENSITY DISCHARGE FIXTURE

WALL MOUNTED EXIT LIGHT/BATTERY PACK COMBO FIXTURE

PH SIDEWALL PHOTOCELL EQUAL TO TORK #2101 (120V)

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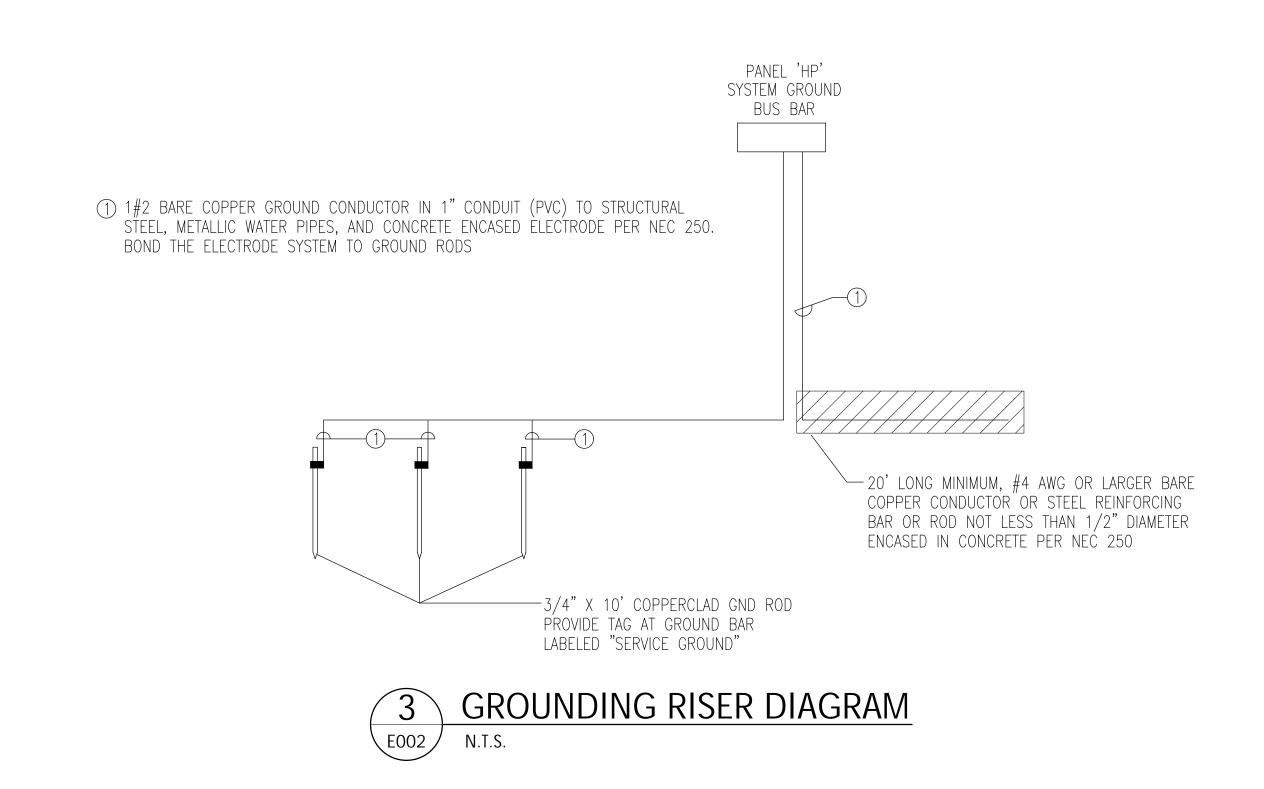
CONSTRUCTION **DOCUMENTS**

REVISIONS: ELECTRICAL LEGEND, SCHEDULE, & NOTES

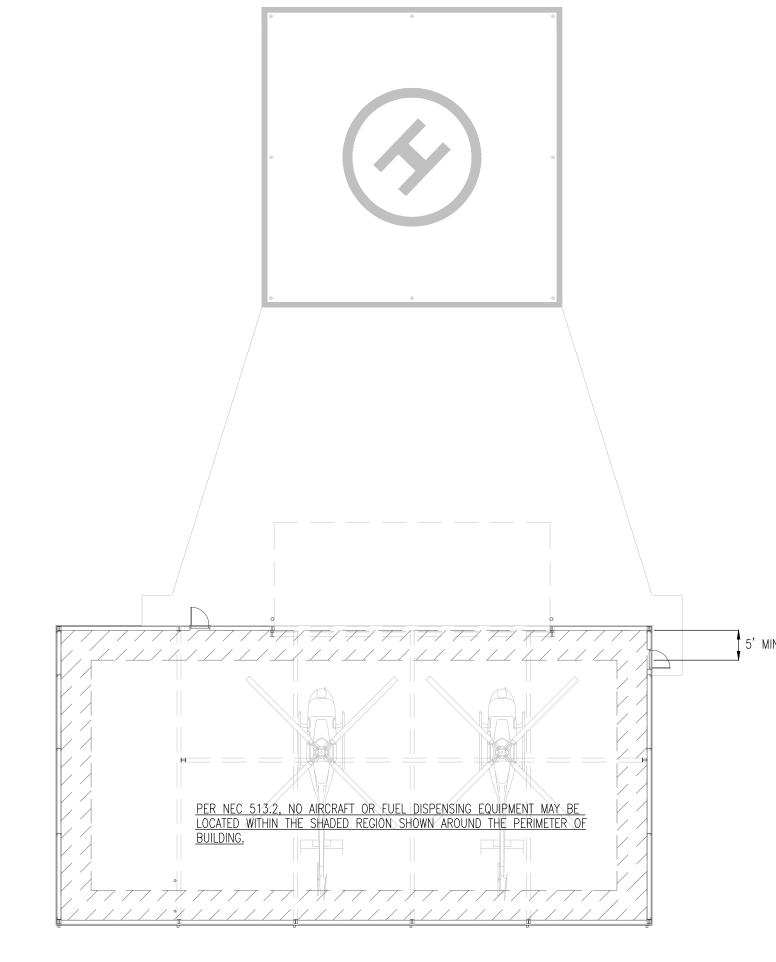
23084 PROJECT NUMBER 01.31.2024 DATED

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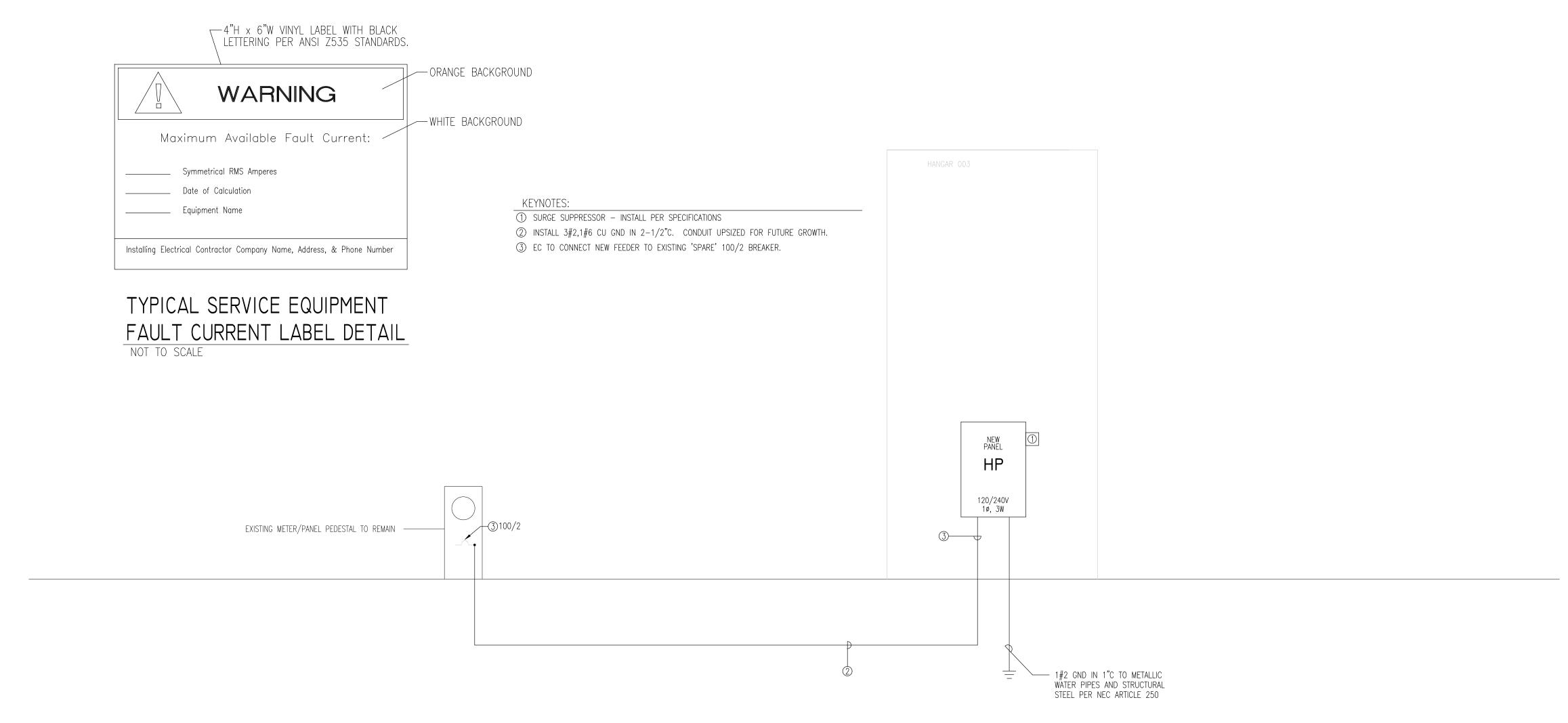
Anthony L Davis, PE Florida License Number: 57419 WATFORD 850.526.3447 Project Number: 2023-118 ENGINEERING 4452 Clinton Street Marianna, Florida 32446 311 N. College St. Office 101B Auburn, AL 36830

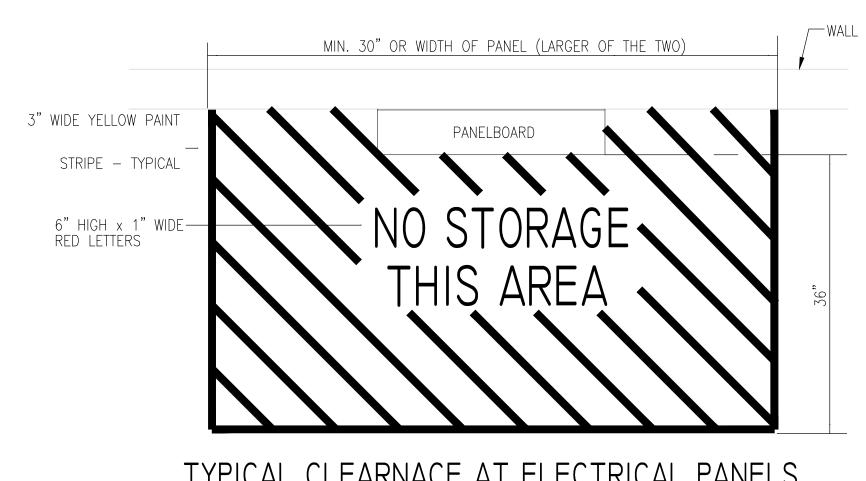


-PROVIDED APPROVAL FROM LOCAL AHJ AND UTILITY, ALUMINUM CONDUCTOR MAY BE USED FOR FEEDERS AND SERVICE-ENTRANCE CABLING. ALUMINUM CONDUCTOR MUST HAVE THE SAME OR GREATER AMPACITY OF THE SPECFIED COPPER CONDUCTIOR. -PRIOR TO CONSTRUCTION, EC TO FIELD-COORDINATE WITH GC & TELE/DATA UTILITY THE REQUIRED CONDUITS & POINTS-OF-TERMINATION FOR TELE/DATA SERVICE. FOR BID, INCLUDE TWO (2) 2"C's (W/ PULLSTRING) AS SHOWN ON ELECTRICAL SITE PLAN. ELECTRICAL SERVICE TO TELE/DATA HEAD-END EQUIPMENT.



FUEL DISPENSING EQUIPMENT RESTRICTED AREA





TYPICAL CLEARNACE AT ELECTRICAL PANELS (FLOOR MARKING OPTIONAL) NOT TO SCALE

1 ELECTRCIAL POWER PLAN

SCALE: 1/4" = 1'-0"

24-37 Bay County Sheriff's Office Helicopter Facility

Florida CA Number: 27825 Anthony L Davis, PE Florida License Number: 57419 WATFORD 850.526.3447 Project Number: 2023-118 ENGINEERING Checked By: ALD 4452 Clinton Street Marianna, Florida 32446 311 N. College St. Office 101B Auburn, AL 36830

REVISIONS: ELECTRICAL POWER RISER

PROJECT NUMBER 23084 01.31.2024 DATED

E002

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CONSTRUCTION

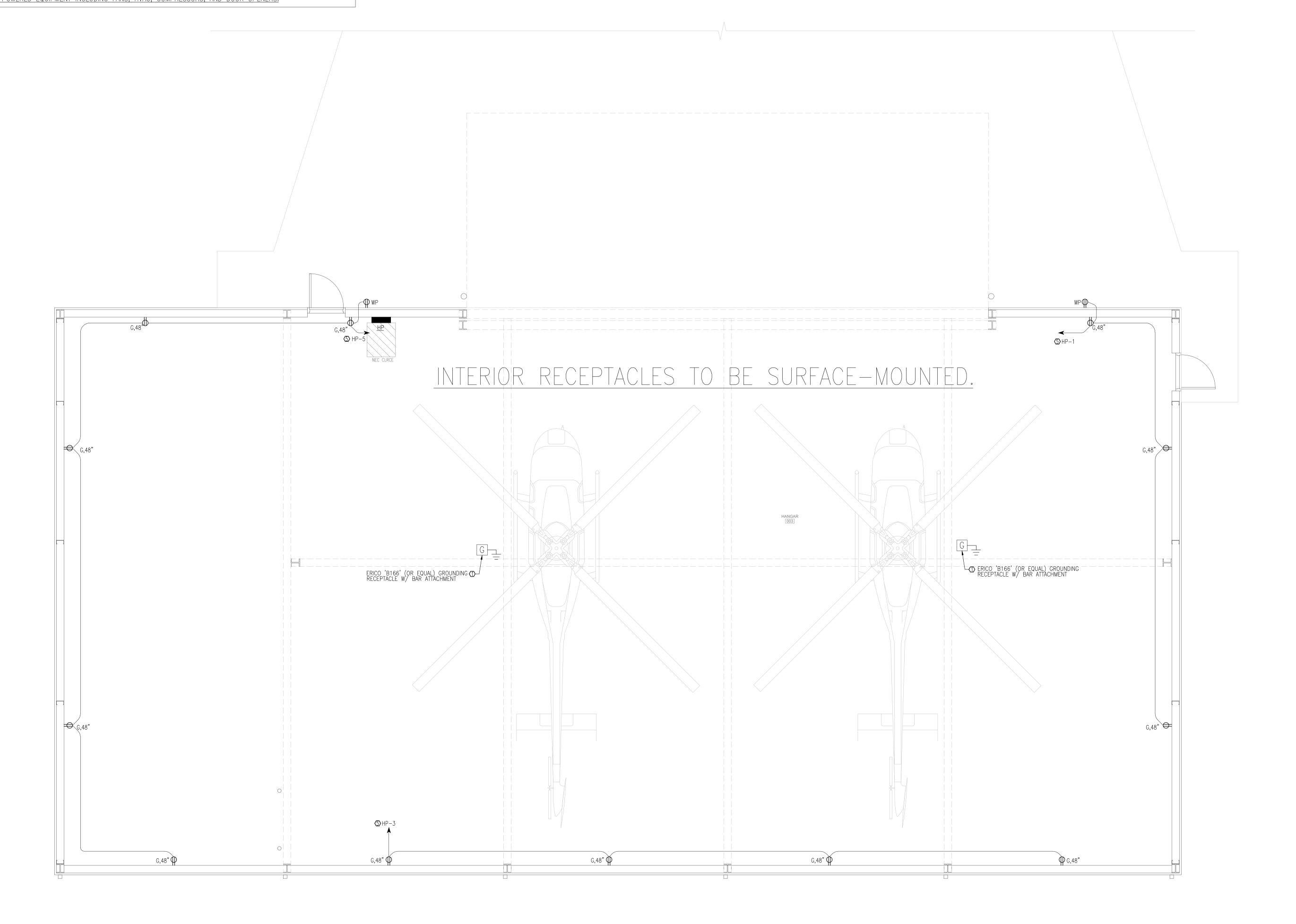
DOCUMENTS

-IN THIS AREA, ALL ELECTRICAL DEVICES (LIGHTING, RECEPTACLES, DISCONNECTS, JUNCTION BOXES, SWITCHES, ETC...) ARE TO BE INSTALLED AT BE INSTALLED AT A MINIMUM OF 48" A.F.F... COMPLIANCE WITH NEC 513, CLASS I, DIV II REQUIREMENTS TO BE FOLLOWED.

ATTENTION SHOULD BE MADE TO AVOID INSTALLATION OF RECEPTACLES, DISCONNECTS, J-BOXES, SWITCHES,, PANELS, LIGHTING, ETC... WITHIN THESE AREAS. OTHERWISE, DEVICES SUITABLE FOR CLASS I, DIV I/II ENVIRONMENTS (EXPLOSION-PROOF APPARATUS MUST BE INSTALLED.)

-INSTALL LIGHTING FIXTURE, OUTLETS, PLATES, AND OTHER VISIBLE ITEMS PARALLEL TO BUILDING LINES. LINE UP EXPOSED RACEWAYS PARALLEL AND AT RIGHT ANGLES TO BUILDING WALLS, PARTITIONS, AND CEILINGS.

-SURFACE-MOUNTED ELECTRICAL EQUIPMENT BOXES ARE TO BE INSTALLED ON GALVANIZED UNISTRUT STANDOFFS. ELECTRICAL EQUIPMENT BOXES SHALL INCLUDE, BUT NOT LIMITED TO ELECTRICAL, CONTROL AND COMMUNICATION PANELS, CABINETS, JUNCTION/PULL/TERMINATION BOXES 24" OR LARGER, SPLITTERS, CONTACTORS AND DISCONNECT SWITCHES. BOXES ARE TO BE GROUPED ON COMMON BASE WHEREVER PRACTICAL. PROVIDE DISCONNECTS AT GROUND LEVEL FOR ALL POWERED EQUIPMENT INCLUDING FANS, HVAC, COMPRESSORS, AND DOOR OPENERS.





KEYNOTES

DEC TO FURNISH/INSTALL GROUNDING RECEPTACLE AS SHOWN. GROUNDING TO COMPLY WITH 2016 NFPA 409, SECTION 8.6.

CIRCUIT TO BE 2#10, 1#10GND IN 3/4"C.

Florida CA Number: 27825
Anthony L Davis, PE
Florida License Number: 57419
850.526.3447
Project Number: 2023-118
Checked By: ALD
Drawn By: MBS



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CONSTRUCTION DOCUMENTS

AY COUNTY SHERIFF FFICE

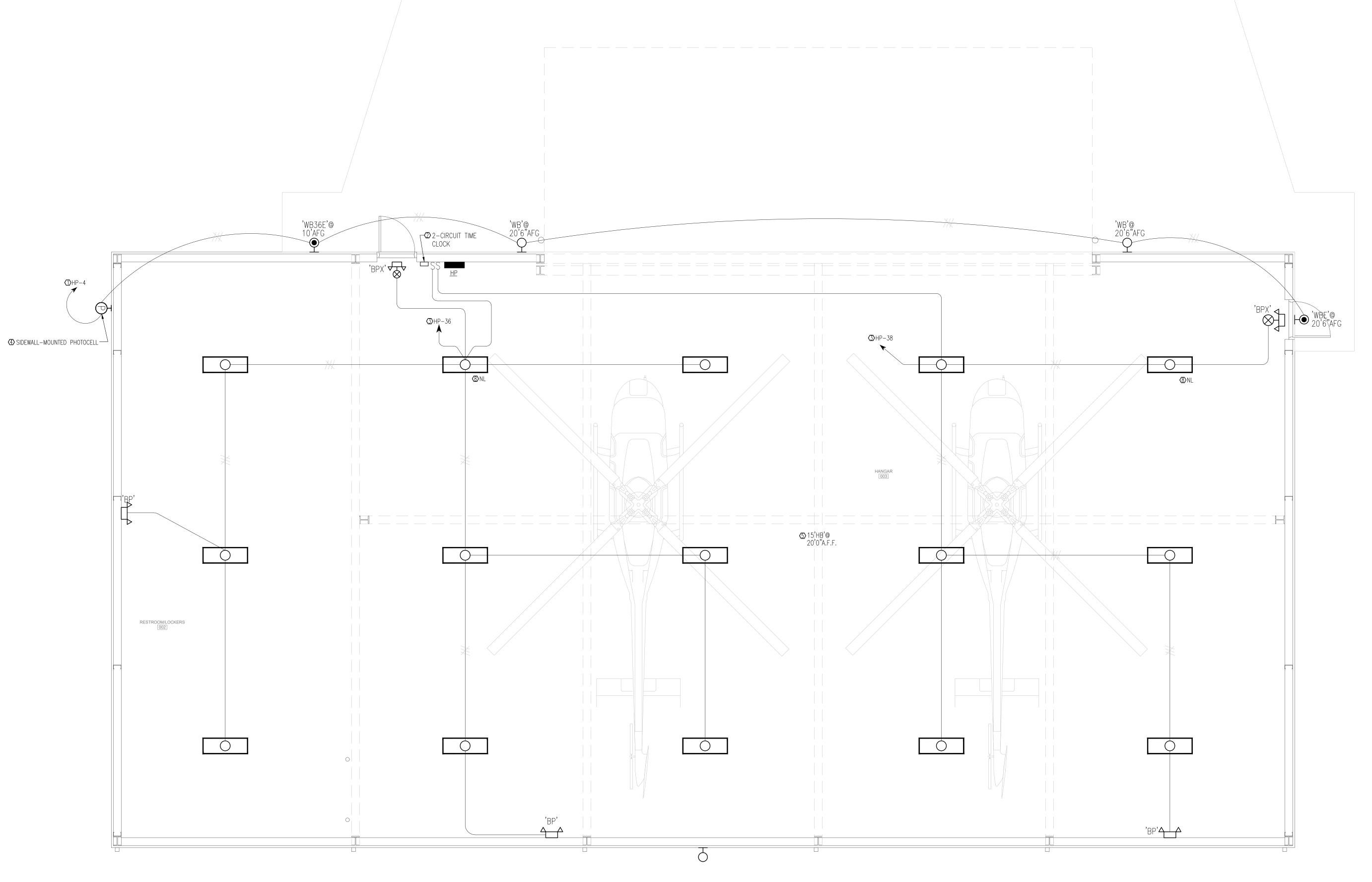
REVISIONS:

No. Description Date

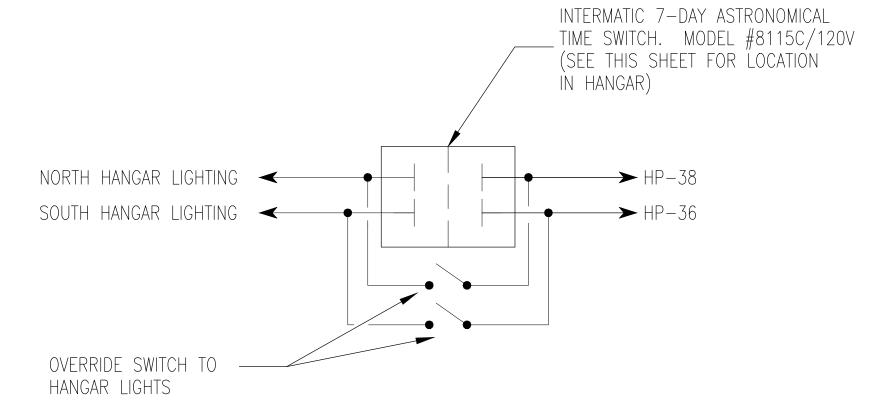
ELECTRICAL POWER FLOOR PLAN

PROJECT NUMBER **23084**DATED 01.31.2024

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Florida CA Number: 27825 Anthony L Davis, PE Florida License Number: 57419 WATFORD 850.526.3447 Project Number: 2023-118 ENGINEERING Checked By: ALD 4452 Clinton Street Marianna, Florida 32446 311 N. College St. Office 101B Auburn, AL 36830

PLAN

PROJECT NUMBER 23084 01.31.2024 DATED E200 of 87

ELECTRICAL LIGHTING

REVISIONS:

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CONSTRUCTION

DOCUMENTS



- TO REDUCE VOLTAGE DROP AND COMPLY WITH NEC, CIRCUIT TO BE A MINIMUM OF #10CU. WHERE 3-WIRE SHOWN, INSTALL ADDITIONAL NON-SWITCHED 120V HOTLEG FORCONTINUAL CHARGING OF EMERGENCY BATTERIES FOR CODE-REQUIRED EMERGENCY EGRESS LIGHTING.
- ② EC TO FURNISH/INSTALL INTERMATIC #ET8215C (OR EQUAL) 2-CIRCUIT ASTRONOMICAL TIME CLOCK.
- © ROUTE CIRCUIT VIA 2-CIRCUIT TIME CLOCK ADJACENT TO OFFICE DOOR. TO REDUCE VOLTAGE DROP, CIRCUIT TO BE
- ♦ SIDEWALL-MOUNTED PHOTOCELL TO BE MOUNTED/SHIELDED SO THAT IT OPERATES AT DESIRED TIME. © EC TO INCLUDE MATERIALS AND LABOR FOR REQUIRED UNITSTRUT SYSTEM MOUNTED FROM STRUCTURE ABOVE TO ENABLE FIXTURES TO BE MOUNTED AS SHOWN UNDER DUCTWORK.

24-37 Bay County Sheriff's Office Helicopter Facility



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CONSTRUCTION DOCUMENTS

COUNTY SHERIFF

REVISIONS:

No. Description Date

ELECTRICAL NEW WORLS SITE PLAN

Florida CA Number: 27825
Anthony L Davis, PE
Florida License Number: 57419
850.526.3447
Project Number: 2023-118
Checked By: ALD
Drawn By: MBS

Florida CA Number: 27825
Anthony L Davis, PE
Florida License Number: 57419
850.526.3447
Project Number: 2023-118
Checked By: ALD
Drawn By: MBS

PROJECT NUMBER 23084
DATED 01.31.2024

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PART 1 – GENERAL

DESCRIPTION OF WORK 1.01

- Provide all labor, materials and equipment for a complete and operating electrical system.
- Codes and Standards: All electrical work shall be in strict compliance with OSHA requirements, the 2017 National Electrical Code, the local county electrical code and Power Company standards. All materials shall be new and free from defects, and shall bear the Underwriters' label for its intended use.
- Permits, Fees and Notices: Secure and pay for all required by the work of this Division. Provide final inspection certificate(s) as applicable.
- Contractor shall thoroughly investigate site before bidding. No changes will be allowed in contract price for work required to comply with existing conditions.
- Workmanship shall meet N.E.C.A. guidelines.
- If, through errors or omissions, the intent of Architect/Engineer with regard to any detail is not clear, or is capable of more than one interpretation, such matters must be brought to the attention of the Architect/Engineer in writing before the submission of bids, and the Architect/Engineer shall make correction or explanation in writing. Otherwise, no extra charge will be allowed for the work or material which the Architect/Engineer will require, provided that it comes within a reasonable interpretation of the Drawings and Specifications.
- The plans and specifications are intended as a general description of the work to be performed. All items not specifically mentioned or shown, but necessary for the completion of the installation , shall be furnished and installed by this Contractor. This Contractor shall thoroughly acquaint himself with the Mechanical, Architectural, Structural and Electrical plans before submitting his final bid. No additional compensation will be allowed due to the Contractor's failure to familiarize himself with the plans.

SUBMITTALS 1.02

Submit five (5) copies of technical information on all major equipment in binders. Mark—up prints of the design drawings with red pencil as items are installed, and submit two copies showing an accurate "As-Built" record of the entire system. Give the Owner instructions in operation of the system. Secure from the Owner a signed memo stating that technical information, as—built drawings and instructions in operation have been received. Submit memo to the Architect.

PART 2 - PRODUCTS

2.01 CONDUIT

24-37 Bay County Sheriff's Office Helicopter Facility

All wires shall be concealed in conduit, (1/2" min.)including grounding wires. When conduit is located below slab on grade or underground, it shall be PVC Schedule 40 (3/4" min.). Provide all empty conduits with pullwires. EMT and ENT may be used where permitted by code. Conduits shall be sized per N.E.C.

CONDUCTORS 2.02

- All conductors shall be copper (#12 min), THHN/THWN insulation. Comply with the N.E.C. Articles 300 and 310. All conductors shall be new, free from kinks and other defects when installed. Where local authorities permit, aluminum conductors may be used for service entrance and panel feeders as indicated on riser diagrams. The use of Romex is allowed only with with the local AHJ and owner approval. It is highly recommended written approval be obtained.
- 2.03 SUPPORTS
- Provide all supports for material and equipment.
- 2.04 COVER PLATES
- All plates shall be white plastic.
- RECEPTACLES 2.05
- Provide standard grade 20 amp, 2 pole, 3 wire, with back and side wiring capability and suitable for split circuit operation.
- Ground Fault Interrupter: Provide "specification grade" duplex receptacles, ground fault circuit interrupters (GFI), feed—thru type, capable of protecting connected downstream receptacles on single circuit, grounding type UL rated Class A, 20 amperes rating, 120 volts, with solid state ground fault sensing and signaling, 5 milliamperes ground fault trip level; and equip with local test/reset buttons.
- SWITCHES 2.06
- Provide silent type standard grade 20 amp, 120V for all single pole, double pole, three—way and four—way switches.
- LIGHTING FIXTURES 2.07
- Fixture schedule shows required type of fixture only. Determine modifications required to make fixtures suitable for ceilings as installed, and furnish fixtures adapted to the ceiling used. Fixtures shall be U.L. approved. This contractor shall protect the fixtures and lamps and shall replace broken parts. All lenses and louvers in any area shall be cleaned after all trades have completed their work in that area. Provide new lamps for all lighting fixtures.
- 2.08 DISCONNECT SWITCHES
 - Shall be general duty safety switches with 100,000A short circuit rating, and shall be listed in accordance with U.L. 98. The cover shall be interlocked so that position, except by the intentional operation of a

PART 3 - EXECUTION

3.01 APPARATUS IDENTIFICATION

Panelboard, circuit breakers in panelboards, motor disconnect switches, starters and other apparatus used for the operation or control of, circuits, appliances or equipment shall be properly identified by means of engraved laminated plastic descriptive nameplates mounted on the apparatus using contact cement. Cardholders in any form are acceptable for living units.

GROUNDING 3.02

- A separate grounding conductor, sized in accordance with NEC Table 250-95 shall be provided in the conduit with the circuit conductors for all lighting, power and feeder circuits.
- All electrical equipment enclosures and conductor enclosures shall be grounded.

INSTALLATION: 3.03

- The Contractor shall adapt his work to job conditions and make such changes as required and permitted by the Architect, such as moving his work to clear beams, joists, and adjusting his risers or other apparatus to avoid interferences with windows and openings: or raising or lowering his work to permit the passing of ductwork or the work of other trade: all as required or as job conditions dictate, without any additional costs to the Owner.
- Examine areas and conditions under which work is to be performed and products are to be installed and notify General Contractor in writing of conditions detrimental to proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.
- Do not allow or cause any of the work of this division or cause other divisions of work to be covered up or enclosed until it has been inspected, tested and approved by the Architect and by all other authorities having jurisdiction.
- All switchboards, panelboards, transformers, switches, outlets, coverplates, signs, lighting fixtures, and any and all other electrical equipment provided shall be thoroughly cleaned of all dirt, oil, concrete, etc. Any dents, scratches or other visible blemishes shall be corrected and the appearance and corrosion resistance of the equipment made "like new", to the satisfaction for the Architect/Engineer.



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CONSTRUCTION **DOCUMENTS**

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NEW **BA**

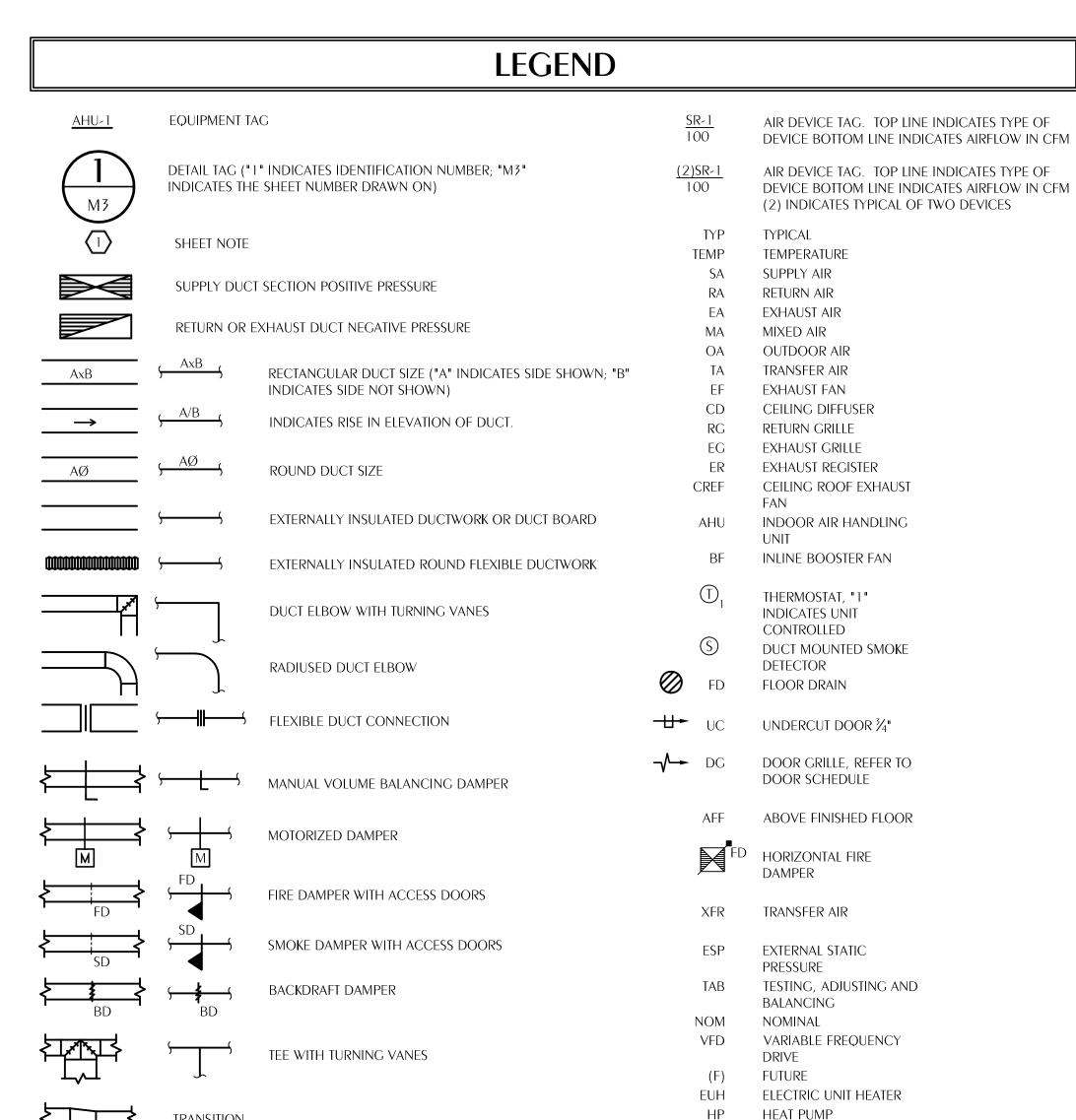
REVISIONS: ELECTRICAL **SPECIFICATIONS**

PROJECT NUMBER DATED

the door cannot be opened with the handle in the "on" Perform all adjustments necessary to ensure proper system operation in accordance with manufacturer concealed release (defeater) mechanism. written instructions.

23084

01.31.2024



FLEX DUCT TAKE OFF WITH MVD

UNLESS NOTED OTHERWISE

SIZE EQUALS DIFFUSER NECK SIZE

BRANCH DUCT TAKEOFF WITH MVD

GENERAL NOTES

1. ALL DUCT DIMENSIONS ARE NET INSIDE.

- 2. VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
- FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL NEW DUCTWORK FOR LEAKS.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
- 5. PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
- 6. ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
- 7. ALL AHU AND OAU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
- 8. PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING. COORDINATE ALL SIZES AND LOCATIONS WITH ARCHITECT DURING SUBMITTALS. PROVIDE PLANS IF REQUIRED BY ARCHITECT.
- 9. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION OF ALL EQUIPMENT AND UTILITIES.
- 10. CONTRACTOR SHALL SUBMIT COORDINATED DUCTWORK SHOP DRAWINGS INDICATING COORDINATION WITH ELECTRICAL, PLUMBING, AND FIRE PROTECTION, PRIOR TO BEGINNING WORK. SHOP DRAWINGS SHALL INCLUDE LOCATIONS OF THERMOSTATS, ACCESS PANELS, AIR
- 11. ALL WORK SHALL COMPLY WITH 2023 FLORIDA BUILDING CODE (8TH EDITION)

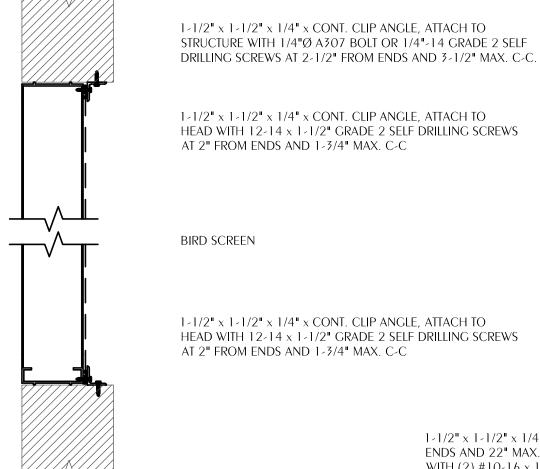
	LOUV	ER SCHE	DULE	
MARK	AIRFLOW CFM (MAX)	LOUVER SIZE (WxH) INCHES	FREE AREA FT ² (MIN)	PRESSURE DROP IN. WG (MAX)
LVR-4 CFM	3800	36x36	4.51	0.10

- 1. PROVIDE RUSKIN EME3625MD (OR EQUAL) EXTRUDED ALUMINUM, WIND-DRIVEN RAIN RESISTANT, STATIONARY LOUVER WITH
- BIRDSCREEN AND FLORIDA PRODUCT APPROVAL.

 2. FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S
- STANDARD COLORS.

 3. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.

STRUCTURE (NIRC)



HEAD AND SILL DETAIL

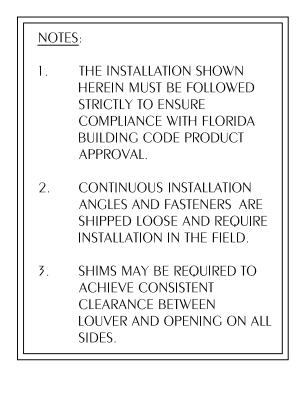
N.T.S.

DUCTLESS SPLIT HEAT

CC DUCTLESS SPLIT CEILING

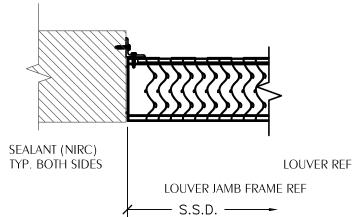
PUMP

CASSETTE



1-1/2" x 1-1/2" x 1/4" x 2" CLIP ANGLE AT 3" FROM ENDS AND 22" MAX. C-C. ATTACH ANGLE TO JAMB WITH (2) #10-16 x 1-1/2" GRADE 2 SELF DRILLING SCREWS AND TO STRUCTURE WITH (1)1/4"Ø A307 BOLT OR (1)1/4"-14 GRADE 2 SELF DRILLING SCREW.

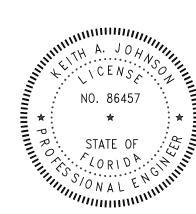
BIRDSCREEN



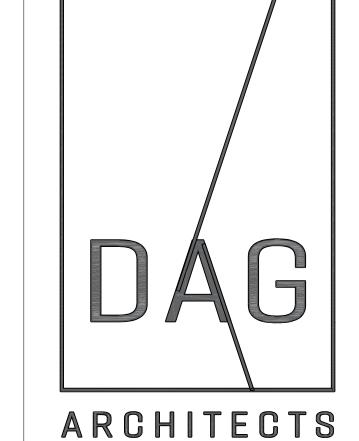
LOUVER SECTION AT JAMB N.T.S.



MIAMI-DADE NOA NO. 23-1116.02







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CONSTRUCTION DOCUMENTS

AY COUNTY SHERIFF

PEND PROJECT FOR:

AY COUNTY SHERIFF

PFICE

REVISIONS:

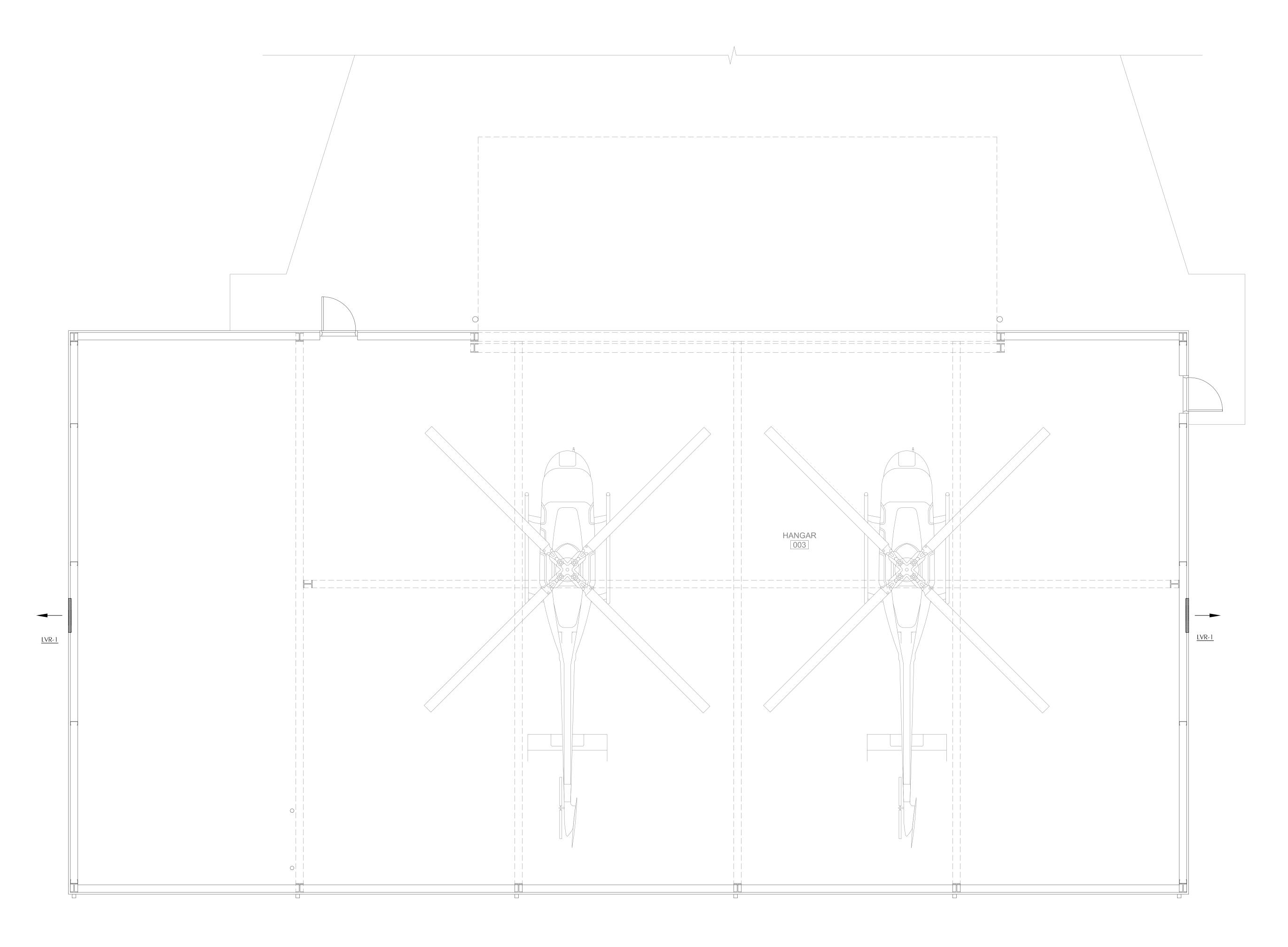
No. Description Date

HVAC LEGEND,
SCHEDULES, NOTES
AND DETAIL

PROJECT NUMBER 23084

DATED 01.31.2024

1001









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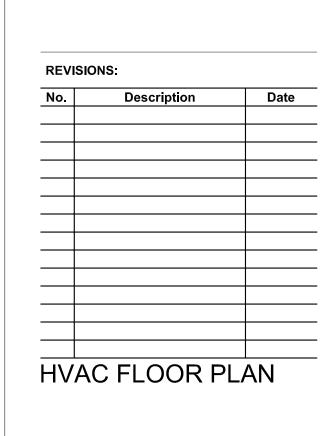
> PERMIT SET

CONSTRUCTION

DOCUMENTS

NGAR AND HELIPAD PROJECT FOR:

COUNTY SHERIFFS



 PROJECT NUMBER
 23084

 DATED
 01.31.2024

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LEGEND

SOIL OR WASTE PIPING

 V	VENT PIPING
 CW	COLD WATER SUPPLY PIPING
 HW	HOT WATER SUPPLY PIPING
 HWR	HOT WATER RETURN PIPING

— GAS — GAS — GAS PIPING GATE VALVE CHECK VALVE

BALL VALVE

CLEANOUT TO FLOOR FLOOR DRAIN

WALL HYDRANT

CLEANOUT TO GRADE UNION

VENT THRU ROOF

SHEET NOTE POINT OF CONNECTION TO EXISTING

SOLENOID VALVE

MOP RECEPTOR WATER CLOSET

ELECTRIC WATER HEATER WATER HAMMER ARRESTOR TYPE A

TRAP PRIMER

WATER HAMMER ARRESTOR TYPE B WATER HAMMER ARRESTOR TYPE C LAVATORY

KILOWATT TEMPERATURE CONTROL VALVE

MASTER SHUT OFF VALVE **SWITCH**

WET VENT CIRCULATOR PUMP

2" HUB DRAIN WITH FLEXIBLE TRAP SEAL BY MIFAB OR EQUAL ABOVE CEILING UNLESS NOTED

MIXING VALVE ELECTRIC WATER COOLER

UTILITY BOX SHOWER

SHEET NOTES

PROVIDE BLOCKOUT IN CONCRETE. STUB UP AND CAP FOR FUTURE WALL MOUNTED

TURN UP AND CAP FOR FUTURE.

24-37 Bay County Sheriff's Office Helicopter Facility

PROVIDE TEE FOR FUTURE CONNECTION AND CAP.

FUTURE EQUIPMENT

SINK

GENERAL NOTES

1. COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS AND EXISTING CONDITIONS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.

2. PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH CIVIL DRAWINGS.

FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING.

4. ALL PIPING PASSING THROUGH ANY WALL SHALL HAVE A SLEEVE PER SPECIFICATIONS.

5. ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS. ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.

6. ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.

7. SEE TOILET ROOM ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHT

8. COORDINATE EXACT LOCATION OF ALL EXTERIOR WALL HYDRANTS WITH ARCHITECTURAL DRAWINGS.

9. UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.

10. PRIOR TO SUBSTANTIAL COMPLETION OF NEW AND ALTERED WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.

11. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.

12. ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. TRAP PRIMERS LOCATED IN THE VICINITY OF WATER CLOSETS SHALL BE ACTIVATED BY WATER CLOSET USAGE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN BALL OR GATE TYPE.

13. CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.

14. ALL DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR INSULATION.

15. ALL WORK SHALL COMPLY WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023) PLUMBING

	PLUMBING FIXTURE SCHEI	DUL	E	
MARK	FIXTURE	PIPE	SIZES-INC	CHES
1717 (1313	TIMORE	CW	HW	W
НВ	HOSE BIBB	3/4	,	-

1. WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).

SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.

3. PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS

BELOW SLAB AND TYPE "L" ABOVE SLAB, WITH SWEAT FITTINGS. 2. WATER PIPING MORE THAN FIVE FEET OUTSIDE BUILDING SHALL BE TYPE "K" COPPER.

B. WATER PIPING:

6. <u>PIPE AND FITTINGS</u>

1. <u>GENERAL</u>

2. <u>SCOPE OF WORK</u>

3. <u>SITE INSPECTION:</u>

5. <u>TESTS</u>

SECURE AND COMPLETE INSTALLATION.

5. ALL INSULATION AS SPECIFIED HEREIN.

REPEATED AFTER DEFECTS HAVE BEEN ELIMINATED

INSTALLATION.

QUALITY OF MATERIALS AND APPROVALS:

DURATION OF 4 HOURS.

A. WASTE, VENT AND DRAIN PIPING:

C. ALL WORK SHALL COMPLY WITH THE 2020 FLORIDA BUILDING CODE.

A. THE WORK INCLUDES THE FOLLOWING ITEMS BUT IS NOT NECESSARILY LIMITED TO THESE:

NECESSARY TRENCHING AND BACKFILLING TO INSTALL THE PLUMBING SYSTEM.

ALL JOB CONDITIONS AND SHALL BE FULLY INFORMED AS TO THE EXTENT OF WORK.

AND TYPE, AS DETERMINED BY THE ARCHITECT, MAY BE USED WHEN APPROVED.

A. CONTRACTOR MAY, AS INDICATED IN THESE SPECIFICATIONS, USE SCHEDULE 40 PVC B. MATERIALS: PVC PIPE SHALL BE SCHEDULE 40 PIPE AND FITTINGS PRODUCED FROM MATERIAL CONFORMING TO ASTM D 1784, TYPE I, GRADE I, 200 PSI DESIGN STRESS (PVC 1120).

A. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND PERFORM ALL WORK

AND SERVICES FOR ALL PLUMBING AS SHOWN ON DRAWINGS AND AS SPECIFIED, IN ACCORDANCE WITH PROVISIONS OF THE CONTRACT DOCUMENTS, AND COMPLETELY COORDINATED WITH WORK OF ALL OTHER

ALTHOUGH SUCH WORK IS NOT SPECIFICALLY INDICATED, FURNISH AND INSTALL ALL SUPPLEMENTARY OR

MISCELLANEOUS ITEMS, APPURTENANCES AND DEVICES INCIDENTAL TO OR NECESSARY FOR A SOUND,

ALL POTABLE WATER, DRAIN, WASTE AND VENT PIPING FOR COMPLETE PLUMBING SYSTEM.

A. BEFORE SUBMITTING PROPOSALS, EACH BIDDER SHALL VISIT THE SITE AND FULLY FAMILIARIZE HIMSELF WITH

A. THE FIXTURES AND EQUIPMENT ARE SPECIFIED BY MANUFACTURER AND MODEL NUMBER FOR THE PURPOSE

A. CONCEALED WORK SHALL REMAIN UNCOVERED UNTIL REQUIRED TESTS HAVE BEEN COMPLETED. TESTS

B. DRAIN SYSTEMS: A WATER TEST SHALL BE APPLIED TO ALL PARTS OF THE DRAINAGE SYSTEM BEFORE THE

WATER SYSTEM: PIPING SHALL BE PRESSURE TESTED AT 100 PSIG FOR A DURATION OF 4 HOURS

CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. THE COMPLETE

AND FITTINGS. CELLULAR CORE PVC PIPE AND FITTINGS ARE NOT PERMITTED.

FITTINGS. CELLULAR CORE PVC PIPE AND FITTINGS ARE NOT PERMITTED.

STERILIZATION OPERATION SHALL BE APPROVED BY THE STATE BOARD OF HEALTH REPRESENTATIVE.

SHALL BE WITNESSED BY THE ENGINEER. PROVIDE 24 HOUR NOTICE PRIOR TO TEST. TESTS SHALL BE

PIPES ARE CONCEALED OR FIXTURES SET IN PLACE. TEST SHALL BE WITH 10' HEAD AND SHALL BE FOR A

STERILIZATION: THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE THOROUGHLY STERILIZED WITH SOLUTION

1. PIPING BELOW SLAB SHALL BE SERVICE WEIGHT CAST - IRON WITH BELL AND SPIGOT - LEAD CAULKED,

PIPING ABOVE THE SLAB SHALL BE SERVICE WEIGHT CAST - IRON WITH BELL AND SPIGOT LEAD

BELL AND SPIGOT NEOPRENE PUSH TYPE GASKET, OR "NO - HUB" JOINTS. PIPE AND FITTINGS SHALL BE

COATED INSIDE AND OUTSIDE WITH COAL - TAR VARNISH. "NO - HUB" JOINTS BELOW SLAB SHALL BE

MADE USING TYPE MG CAST IRON COUPLINGS ONLY. CONTRACTOR'S OPTION: MAY UTILIZE PVC PIPE

CAULKED OR "NO - HUB" JOINTS OR PVC-DMV PIPE AND FITTINGS. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE FITTINGS. CONTRACTOR'S OPTION: MAY UTILIZE PVC PIPE AND

WATER PIPING SHALL BE COPPER TUBING, TYPE "K" (SOFT UP TO 1-INCH, OVER 1-INCH TO BE HARD)

OF ESTABLISHING TYPE AND QUALITY REQUIRED. OTHER MANUFACTURER'S PRODUCTS OF EQUAL QUALITY

ALL MATERIALS, EQUIPMENT, FIXTURES, ACCESSORIES AND TRIM, TO MAKE A COMPLETE FINISHED

ALL WASTE AND DRAIN PIPING INCLUDING CONNECTING INTO EXISTING SERVICES.

- A. GENERAL: ALL INSULATION WORK SHALL BE DONE BY WORKMEN THOROUGHLY COMPETENT IN THIS TRADE.
- THE FOLLOWING SHALL BE INSULATED AS INDICATED: 1. ALL COLD AND HOT WATER PIPING AND FITTINGS: 1.5" IN. THICK PREFORMED FIBERGLASS WITH

FACTORY JACKET THAT MEETS ASTM C547 WITH CONDUCTIVITY OF 0.21-0.28 BTU IN. @ 100°F, FIRE

9. <u>INSTALLATION OF PIPING SYSTEMS:</u>

PLUMBING SPECIFICATIONS

8. INSULATION:

- A. GRADE: ALL BUILDING SEWERS SHALL HAVE A UNIFORM GRADE OF NOT LESS THAN 1/8 IN. TO THE FOOT, DOWNWARD IN DIRECTION OF FLOW FOR PIPE 3 IN. AND LARGER. PIPE SMALLER THAN 3 IN. SHALL HAVE GRADE OF 1/4 IN. TO THE FOOT.
- B. CLEANOUTS: ALL CLEANOUT PLUCS SHALL BE RECESSED BRASS TYPE. CLEANOUTS TO FINISHED FLOORS SHALL BE EQUAL TO JOSAM SERIES 56000-18-41 (-12, -14), BRONZE PLUG, CLAMP RING AND FLANGE, LEVELEZE ADJUSTABLE HOUSING AND WITH SATIN FINISH BRONZE COVER AND FRAME. CLEANOUTS IN FINISHED WALLS SHALL BE EQUAL TO JOSAM SERIES 58890, WITH POLISHED STAINLESS STEEL COVER AND SECURING SCREWS.
- CLEANOUTS TO SIDEWALK SHALL BE WITH LEAD CAULKED CAST-IRON FITTINGS WITH BRASS COUNTERSUNK PLUG, JOSAM 58480 SET IN A 18 IN. SQUARE BLOCK OF POURED CONCRETE, 6 IN. THICK. ALL EXTERIOR CLEANOUTS SHALL BE BROUGHT TO GRADE. PVC SHALL NOT BE USED FOR CLEANOUTS TO SIDEWALK.
- C. PIPE SUPPORT: ALL HORIZONTAL SUSPENDED PIPE SHALL BE SUPPORTED AS REQUIRED IN SECTION 308 OF THE 2020 FLORIDA BUILDING CODE-PLUMBING.
- PROTECTION OF PIPING SYSTEMS: ALL PIPING AND PLUMBING SYSTEM COMPONENTS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 305 OF THE 2020 FLORIDA BUILDING CODE-PLUMBING.

10. <u>INSTALLATION OF FIXTURES AND EQUIPMENT</u>

- PREPARATIONS OF ROUGH-IN. SUPPORTS AND WALL FINISHES SHALL BE COMPLETED AND TESTED OR
- INSPECTED BEFORE FIXTURES OR EQUIPMENT ARE INSTALLED. B. INSTALLATION:
- 1. MECHANICAL OR PLUMBING CONNECTIONS SHALL BE MADE WITH CORRECT FITTINGS, GASKETS OR SETTING COMPOUND FOR EACH FIXTURE. SEAL ALL BRASS AND TRIM TO WALLS AND FIXTURES WITH RESILIENT WATERPROOF COMPOUND.

11. <u>START-UP SERVICE</u>:

A. THE CONTRACTOR SHALL PUT ALL ITEMS INSTALLED UNDER THIS SECTION INTO OPERATION AND SHALL INSTRUCT THE OWNER'S MAINTENANCE PERSONNEL IN ALL POINTS

12. <u>GUARANTEE:</u>

A. THE CONTRACTOR SHALL GUARANTEE ALL WORK IN THIS SECTION FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE AGAINST DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIALS.

13. <u>FIXTURES AND</u> EQUIPMENT: A. FURNISH AND INSTALL PLUMBING FIXTURES, EQUIPMENT, DRAINS, ETC., COMPLETE WITH ALL TRIM, FITTINGS, AND OTHER DEVICES WHICH ARE CONSIDERED NECESSARY BY THE TRADE, BY CRAFT STANDARDS AND/OR

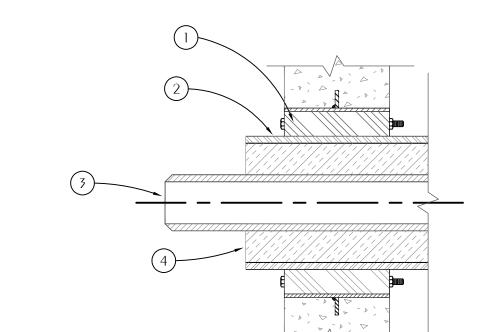
RECESSED HOSE BIB:

WALL FAUCET

BY THE ARCHITECT.

ANTI-SIPHON VACUUM BREAKER, FLUSH MOUNTING STAINLESS STEEL WALL BOX WITH HINGED COVER, 3/4 INCH HOSE THREAD, BRONZE BODY AND INTER PARTS, WHEEL HANDLE, LOOSE KEY FAUCET OPERATED CONTROL VALVE, DUAL CHECK VALVE, SCREWDRIVER OPERATED STOP VALVE IN SUPPLY, NARROW INSTALLATION.

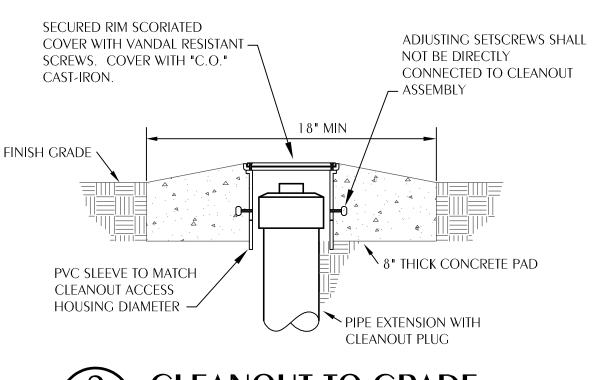
ZURN Z1335



(1) WALL SEAL APPURTENANCES PER SPECIFICATIONS 2) PIPE SLEEVE PER SPECIFICATIONS

(3) PIPING

(4) INSULATION TYPICAL PIPE PENETRATION OF WALL



CLEANOUT TO GRADE

(1) A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS.

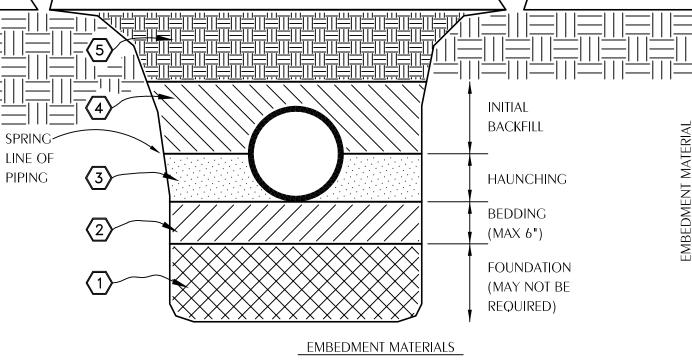
BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4-6", LIGHTLY COMPACTED UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET CONDITIONS, CLASS I, II OR III MATERIAL SHALL BE HAND PLACED IN 4-6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL.

3 HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINCLINE OF THE PIPE. CLASS II OR III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.

(4) INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR III. IT SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF THE PIPE AND TAMPED BY A PORTABLE VIBRATOR. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF ROADWAY.

(5) FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. A MINIMUM OF 30" OF COVER OVER THE TOP OF THE PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS WHEEL, LOADED.

ALL EMBEDMENT MATERIALS SHALL BE NO LESS THAN 95% OF MAXIMUM DENSITY. LABORATORY TESTING OF THE SOIL WILL BE REQUIRED. THIS PROCEDURE SHALL BE REQUIRED ON ALL INSTALLATIONS. ALL TRENCHING, EXCAVATION, AND BACKFILLING SHALL BE IN ACCORDANCE WITH 2023 FLORIDA PLUMBING



ANGUALAR, 1/4"-1-1/2", GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.

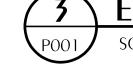
CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES GW, GP, SW, AND SP ARE INCLUDED IN THIS CLASS.

CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED IN THIS CLASS.

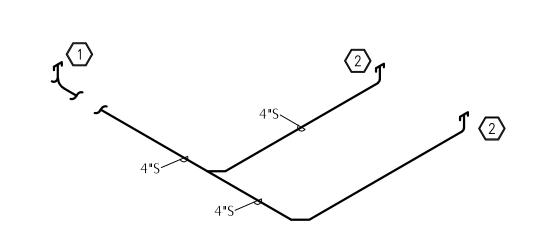
CLASS IV: SILT, SILTY CLAYS, AND CLAYS, INCLUDING INORGANIC CLAYS AND SILT OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. SOIL TYPES MH, ML, CH, AND CL ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1-1/2" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

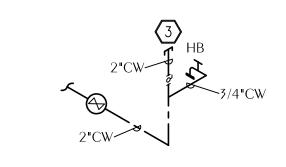








PLUMBING SANITARY RISER DIAGRAM









DAG Architects AR0009694 455 Harrison Ave Suite I & J Panama City, FL 32401 850.387.1671

PERMIT

www.DAGarchitects.com

CONSTRUCTION

REVISIONS: PLUMBING LEGEND SCHEDULE, DETAILS NOTES, & RISER

DIAGRAMS

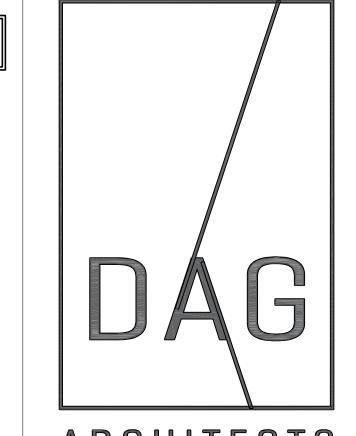
PROJECT NUMBER

DATED

01.31.2024

311 N. College St. Office 101B Auburn, AL 36830 P001

- 1) TURN UP AND CAP FOR FUTURE.
- PROVIDE BLOCKOUT IN CONCRETE. STUB UP AND CAP FOR FUTURE WALL MOUNTED WATER CLOSET.
- PROVIDE TEE FOR FUTURE CONNECTION AND CAP.



ARCHITECTS DAG Architects AR0009694 455 Harrison Ave Suite I & J Panama City, FL 32401 850.387.1671 www.DAGarchitects.com

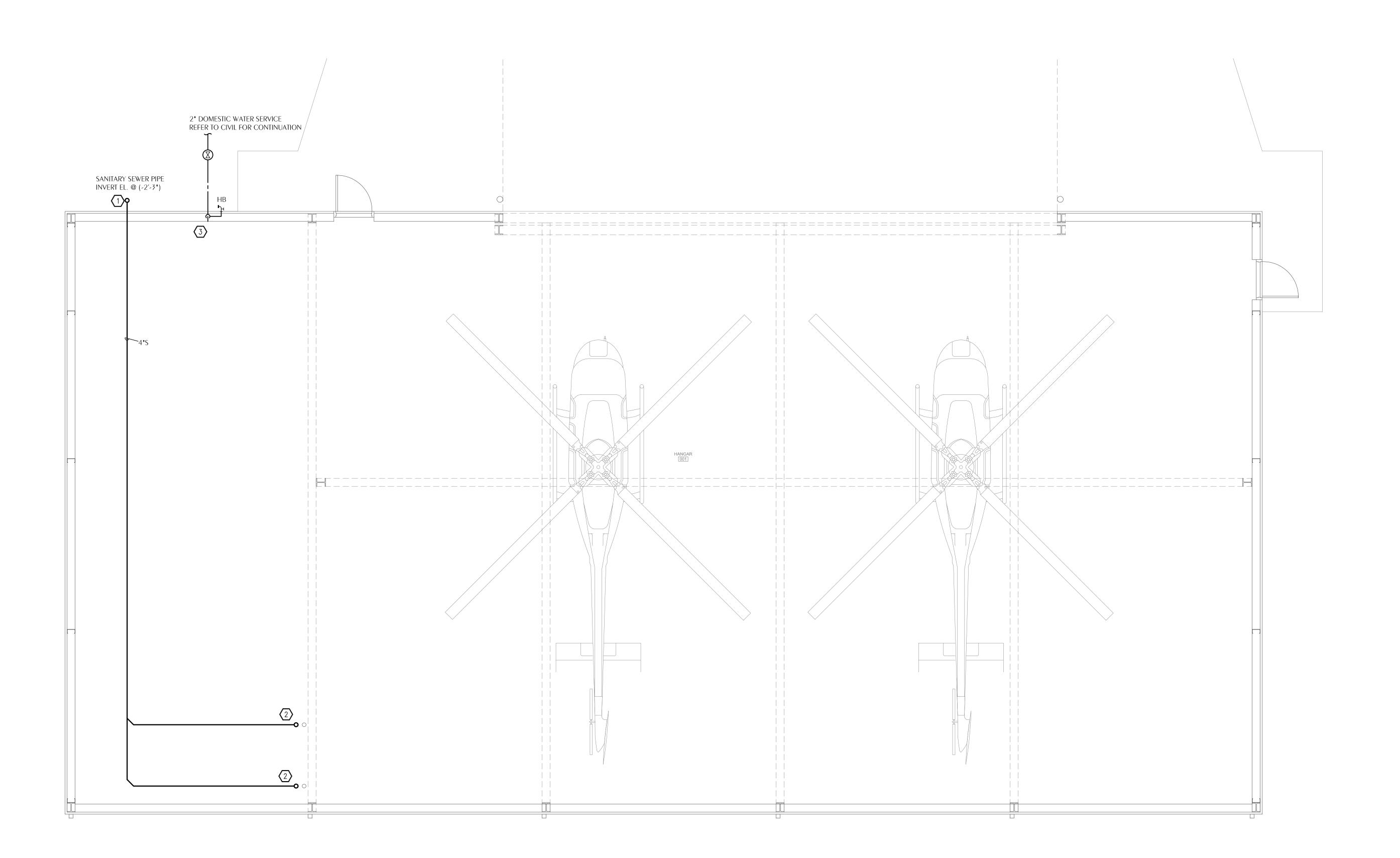
> PERMIT SET

CONSTRUCTION **DOCUMENTS**

PLUMBING FLOOR PLAN

PROJECT NUMBER 23084 DATED 01.31.2024

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24-37 Bay County Sheriff's Office Helicopter Facility

1. GENERAL NOTES: 1.1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT

STRUCTURAL DRAWINGS.

1.4. DO NOT SCALE DRAWINGS.

ANCHOR BOLT ADDITIONA ALTERNATE ALUMINUM ARCHITECTURAL or ARCHITECT BOTTOM OF BLDG BUILDING BLOCK BLKG BLOCKING BEAM

<u>ABBREVIATIONS</u>

BOTTOM OF STEEL BEARING BOTTOM SIDE BTM or (B) BOTTOM, "BOT" SIM BETWEEN CARRIAGE BOL COLD FORMED STEEL CAST IN PLACE CONTROL JOINT

BTW CL or (E) CENTER LINE CONCRETE MASONRY UNIT CASED OPENING CONC CONN CONCRETE CONNECTION CONST CONSTRUCTION CONTINUE or CONTINUOUS

CONSTRUCTION JOINT

DETAIL

DIA or (Ø) DIAMETER

DOUBLE

DIAGONAL

DIMENSION

DIRECTION

DRAWING

EACH END

EACH FACE

ELEVATION

EACH SIDE

EACH WAY

EXTERIOR

FAR FACE

FLOOR

EXISTING

EXPB

FTG

GALV

MAX

M.R.D.

MTRL

PERP

S.D.N.

SOG

STD STIFF

S.W.

VERT

EDGE OF SLAB

EXISTING GRADE

EXPANSION BOLT

FINISHED GRADE

FOUNDATION

FACE OF CONCRET

FACE OF MASONRY

FULL PENETRATION

FACE OF STUD

FOOT OR FEET

FAR SIDE

FOOTING

GAUGE

GALVANIZED

HOLDOWN

HORIZONTAL

INSIDE FACE

INTERIOR

LEFT END

INVERT

JOIST

INCH OR INCHES

KIP (1.000 POUNDS)

LONG LEG DOWN

MACHINE BOI

MISCELLANEOU

NEAR FAC

NUMBER OR #

NON-SHRINI

NOT TO SCALE

OUTSIDE FACE

OPPOSITE

OVERSIZED

PENETRATION

REINFORCING

REFERENCE

ROOF LIVE LOAD

ROUGH OPENIN

SLAB ON GRADE

STUD PACK

STAGGERE

STANDARD

SYMMETRICAL

TOP SIDE

TOP AND BOTTOM

THREADED ROD

TOP OF BEAM TOP OF CONCRETE

TOP OF WALL

WIDE ELANGE

WWM WELDED WIRE MESH

24-37 Bay County Sheriff's Office Helicopter Facility

WORKING POIN WEI DED WIRE FARRIO

TOP OF FOOTING

THICK OR THICKNESS

STIFFENER

SPECS SPECIFICATIONS

SLIP CRITICAL

SCHEDULE

REQUIRED

PERPENDICULAR POINT LOAD

NORMAL WEIGHT CONCRETE

PARALLEL STRAND LUMBER

STRUCTURAL DESIGN NOTES

STAINLESS STEEL, "S.S." SIM

STRUCTURAL, "STRUCT" SIMILAR

TEMPERATURE & SHRINKAGE REINF

"T&S" FOR REINF, ELSE TEMPORARY

UNDER WALL ABOVE, "U.W.A." SIM

PRESSURE TREATED or POST-TENSION

ON CENTER, "C.C." SIM

PRECAST CONCRETE

OVERALL DIM. "O/O" SIM

METAL ROOF DECK

MFGR MANUFACTURER

MID or (M) MIDDLE

LONG LEG HORIZONTA

LAMINATED VENEER LUMBER

LIGHT WEIGHT CONCRETE

LONG LEG VERTICAL

GRADE BEAM

GUSSET PLATE

HEADED ANCHOR STUD

HOT DIP GALVANIZED

HIGH STRENGTH BOLT

HEADED SHEAR or "NELSON" STUD

HOLLOW STL SECTION or TUBE

EXPANSION JOINT

EMBEDDED or EMBEDMENT

FINISHED FLOOR ELEVATION

DOWN

DEAD LOAD

CENTERED, "CNTR'd" SIM

SHORING, SHEETING, TEMPORARY BRACING, AND TIEDOWNS 1.6. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.

SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE

DRAWINGS, CONSULT THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT

WEIGHTS AND LOCATIONS. EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON

1.2. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES

SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE

1.3. NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE

ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE

1.5. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE

BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE

COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY

ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS

PROCEEDING WITH THE AFFECTED PART OF THE WORK.

ENGINEER OF RECORD FOR REVIEW OF ANY SUCH DEVIATIONS.

1.7. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS

1.8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS. METHODS. PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS METHODS TECHNIQUES SEQUENCES OR PROCEDURES FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

1.9. THE REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHOD, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

1.10.PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF ATLAS ENGINEERING AND CONSULTING LLC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY

1.11.ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFE SPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

1.12.STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED STEEL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

1.13.ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE 8TH EDITION (2023). REFERENCE TO OTHER CODES OR STANDARD SPECIFICATIONS REFER TO THE LATEST EDITION OF SUCH CODES OR SPECIFICATIONS, UNLESS STATED

1.14.NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION EXCEPT AS SHOWN ON CONTRACT DOCUMENTS. 1.15.FINISH FLOOR ELEVATION (FIRST FLOOR) OF 0"-0" IS USED AS A REFERENCE

ELEVATION. SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION. 1.16.THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF

MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS IS PROHIBITED UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM ENGINEER OF RECORD. 1.17.IN THE EVENT THAT THE STRUCTURAL CONTRACTS DRAWINGS AND

CAD FILES BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OF

SPECIFICATIONS CONFLICT ON INFORMATION, THE STRUCTURAL CONTRACT DRAWINGS SHALL SUPERSEDE THE SPECIFICATIONS.

2.1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE. 2.2. GRAVITY LOADS

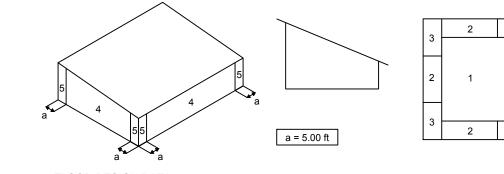
2.2.1. UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

2.2.2. UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN DESIGN. 2.3. WIND LOADS (ASCE 7-22):

BASIC WIND SPEED = 160 MPH (INTERPOLATED VALUE) STRUCTURAL RISK CATEGORY = IV WIND EXPOSURE CATEGORY = C ENCLOSURE CLASSIFICATION = ENCLOSED INTERNAL PRESSURE COEFFICIENT = 0.18 +/

ROOF: (LOADING IN	N PSF)					
	ZON (INTER		ZON (EDC			NE 3 (NER)
TRIBUTARY AREA (SQFT)	(+)	(-)	(+)	(-)	(+)	(-)
10	14.67	39.13	14.67	45.24	14.67	60.5
20	13.75	39.13	13.75	44.32	13.75	55.0
100	11.62	39.13	11.62	42.18	11.62	42.
WALLS: (LOADING	IN PSF)					
	ZON (INTER			NE 5 CORNER)		
TRIBUTARY AREA (SQFT)	(+)	(-)	(+)	(-)		
10	33.01	35.76	33.01	44.02		
20	31.55	34.30	31.55	41.09		
100	28.16	30.91	28.16	34.30		



2.4. FLOOD DESIGN DATA: FLOOD ZONE = X

PANEL NO = 12131C06830 2.5. ROOF RAIN LOAD DESIGN DATA:

RAIN LOAD = 5 PSF

RAIN INTENSITY (i) = 4.5 IN/HR

BFE = N/A

3. <u>FOUNDATIONS:</u>

3.1. THE FOUNDATIONS ARE DESIGNED FOR AN ANTICIPATED ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF ON COMPACTED FILL IF GEOTECHNICAL INVESTIGATION HAS

3.2. REGARDLESS OF WHETHER OR NOT A GEOTECHNICAL INVESTIGATION IS PERFORMED NO WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY ATLAS ENGINEERING AND CONSULTING, LLC FOR THE PERFORMANCE OF THE FOUNDATION.

3.3. AT A MINIMUM, SITE PREPARATION WORK SHALL INCLUDE:

3.3.1. STRIPPING AND GRUBBING OF THE BUILDING FOOTPRINT PLUS A MARGIN OF 5 FEET AROUND THE BUILDING, REMOVING ALL ORGANIC MATERIALS. 3.3.2. PROOF ROLLING THE BUILDING SITE TO LOCATE ANY UNFORESEEN SOFT AREAS. ANY SOFT AREAS SHALL BE EXCAVATED AND REPLACED WITH CLEAN FILL A DENSITY OF AT LEAST 95% FOR A DEPTH OF 2 FEET IS REQUIRED UNDER THE

3.3.3. ALL FILL SHALL BE CLEAN SAND AND FREE OF ORGANIC MATERIALS. COMPACT FILL IN 12 INCH (UNCOMPACTED THICKNESS) LIFTS TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE.

3.3.4. EXCAVATIONS FOR FOUNDATIONS SHALL BE COMPACTED TO 95% FOR A DEPTH OF AT LEAST 2 FEET BELOW THE BOTTOM OF THE FOUNDATION. 3.3.5. DEWATERING MAY BE REQUIRED TO ACHIEVE THE REQUIRED COMPACTION VALUES, AND IF USED, SHOULD DRAW DOWN THE WATER LEVEL TO AT LEAST 2

FEET BELOW THE BOTTOM OF THE EXCAVATION.

3.4. SLABS ON GRADE SHALL BE PLACED OVER A 15 MIL, CLASS "B" VAPOR RETARDER. VAPOR RETARDER SHALL BE LAPPED A MINIMUM OF 6", OR AS RECOMMENDED BY THE MANUFACTURER (WHICHEVER IS GREATER) AND TAPED AT ALL JOINTS. ALL PUNCTURES IN THE VAPOR RETARDER SHALL BE REPAIRED PER MANUFACTURER'S WRITTEN INSTRUCTIONS, ALL PENETRATIONS THROUGH THE VAPOR RETARDER (COLUMNS, PLUMBING CONDUITS FTC) SHALL BE SEALED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. VAPOR RETARDER SHALL BE CONTINUOUS UNDER WALL FOUNDATIONS OR SEALED TO EXTERIOR WALLS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

4.1. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND

4.2. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:

4.2.1. FOUNDATIONS & SLAB-ON-GRADE 3.000 PSI 4.2.2. STRUCTURAL SLABS 4,000 PSI 4.2.3. CIP BEAMS, COLUMNS & WALLS 4.000 PSI 4.2.4. EXTERIOR RETAINING WALLS 4.000 PS

4.3. SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE.

4.4. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.

4.5. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE. THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.

4.6. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.

4.7. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

4.8. CONDUITS, PIPES AND SLEEVES SHALL BE PLACED AND SPACED IN ACCORDANCE WITH 4.9. CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER 26.4.4 OF ACI 318.

4.10. CONCRETE SLABS ON GRADE SHALL BE REINFORCED WITH 6x6 W1.4xW1.4 STEEL MESH OR SYNTHETIC FIBERS AT A MINIMUM RATE OF 3.0 LBS/CY, OR AS RECOMMENDED BY THE FIRER MANUFACTURER FOR CONTROL OF TEMPERATURE AND SHRINKAGE/CRACKING, WHICHEVER IS GREATER. UNLESS NOTED OTHERWISE.

4.11. WHEN WATER-BASED ADHESIVE ARE BEING USED ON CONCRETE SURFACES, THE CONTRACTOR SHALL VERIFY THAT THE WATER CONTENT OF THE CONCRETE IS WITHIN THE ALLOWABLE RANGE BEFORE INSTALLATION.

4.12. CHAMFER OR ROUND ALL EXPOSED CORNERS A MINIMUM OF 3/4".

5.1. SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.

	No. 3	No. 4	No. 5	No. 6	No. 7	١
FOOTINGS (HOR.)	21	23	29	37	50	
VERT. DOWELS	22	29	36	43	63	
MINIMUM LAP SPLIC	E LENGTH	(IN.) - 4000 PS	SI CONCRETE	<u> </u>		
	No. 3	No. 4	No. 5	No. 6	No. 7	١
BEAMS/SLABS	-	-	-	-	-	
- TOP BARS	22	29	36	43	63	
- OTHER	21	21	26	31	39	
COLUMNS	16	18	19	22	37	
C.I.P. WALLS	-	-	-	-	-	
- VERT. (1 MAT)	21	21	22	25	39	
- VERT. (2 MATS)	16	18	19	22	34	
- HORIZONTAL	16	19	27	37	60	
MINIMUM LAP SPLIC	E LENGTH	(IN.) - 1500 PS	SI NORMAL W	/EIGHT CMU		
	No. 3	No. 4	No. 5	No. 6	No. 7	١
6-in CMU WALL	19	25	39	81	-	
8-in CMU WALL	19	25	31	57	79	
12-in CMU WALL	19	25	31	53	61	
RECOMMENED EN		1	· · · · ·			Η,
	No. 3	No. 4	No. 5	No. 6	No. 7	1
D	2.25	3.00	3.75	4.50	5.25	(
A or G	6	8	10	12	14	

RECOMMENED END HOOKS ANCHORAGE LENGTH (IN.) - 4000 PSI CONCRETE No. 4 No. 5 No. 6 No. 7 2.25 3.00 3.75 4.50 5.25 6.00 ⊢ DETAILING —

(#6 BARS & LARGER)

(#5 BARS & SMALLER)

5.2. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE CLEAR COVER UNO (PER ACI 318-05 PAR.7.7.1)

5.2.1. CONCRETE CAST AGAINST EARTH:

5.2.2. FORMED CONCRETE EXPOSEI TO EARTH OR WEATHER: 5.2.3. CONCRETE NOT EXPOSED

TO EARTH OR WEATHER: (STIRRUPS & TIES) 1-1/2" 5.3. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.

5.4. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS. 5.5. WHERE REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORTS AND TOP BARS AT CENTER OF SPAN. ALL OTHER LAP SPLICES SHALL BE IN

ACCORDANCE WITH SPLICE TABLES AND DETAILS SHOWN ON DRAWINGS. 5.6. PROVIDE DOWELS INTO FOOTINGS, PILE CAPS, SUPPORT BEAMS, ETC. TO MATCH VERTICAL BARS WITH CLASS B TENSION LAP SPLICES. U.N.O. 5.7. WHERE HOOKS ARE SHOWN ON THE PLANS OR DETAILS, HOOKS SHALL BE DETAILED TO

EXTEND DEEP ENOUGH INTO SUPPORTING STRUCTURE TO DEVELOP THE FULL STRENGTH OF THE HOOKED BAR. PROVIDE ADDITIONAL TIES OR STIRRUPS IN SUPPORTING STRUCTURE AS REQUIRED TO SATISFY ACI 318 HOOK DEVELOPMENT, CONFINEMENT, AND ANCHORAGE CRITERIA.

5.8. ALL REINFORCEMENT SHALL BE BENT COLD, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL EOR.

5.9. SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL IN MAT SLABS, CAST-IN-PLACE WALLS, AND STRUCTURAL SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO

5.10. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS FOR REINFORCED CONCRETE, "ACI 318" AND THE "MANUALS OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315 (LATEST EDITION).

5.11. ALL REINFORCING STEEL AND EMBEDMENTS SHALL BE SECURELY TIED AND SUFFICIENTLY SUPPORTED TO MAINTAIN THE POSITION WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "WET STICKING" DOWELS INTO CONCRETE IS NOT PERMITTED.

5.12. CONTINUOUS REINFORCEMENT SHALL BE PROVIDED WHEREVER POSSIBLE REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. STAGGER SPLICES WHERE POSSIBLE; USE FULL TENSION SPLICE (CLASS "B") UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH FULL TENSION SPLICES (CLASS "B") UNLESS NOTED OTHERWISE. TERMINATE BARS WITH STANDARD HOOKS.

5.13. REINFORCING STEEL SHALL NOT BE WELDED OR TACK WELDED UNLESS APPROVED BY THE STRUCTURAL EOR.

5.14. ALL STEEL REINFORCING USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB.

6.1. SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND

6.2. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES. 6.3. ALL WELD WIRE MESH USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB.

7.1. STRUCTURAL GLUED LAMINATED TIMBER SHALL BE PRODUCED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC). MINIMUM ALLOWABLE

STRUCTURAL GENERAL NOTES

BENDING STRESS SHALL BE 2,400 PSI (DRY CONDITIONS). 7.2. PROVIDE DRESSED SEASONED LUMBER, S4S, WITH A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF DRESSING AS LISTED BELOW.

7.2.1. INTERIOR AND EXTERIOR LOAD-BEARING WALLS: SOUTHERN PINE, NO. 2 GRADE.

7.2.2. LINTELS, FLOOR JOISTS AND BEAMS: SOUTHERN PINE, NO. 2 GRADE.

ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE STRESSES AND PROPERTIES:

7.2.3. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE PRESSURE-TREATED. USE GALVANIZED NAILS IN PRESSURE-TREATED WOOD. THE PROTECTIVE COATING ON LIGHT GAUGE STEEL CONNECTIONS IN CONTACT W/ PRESSURE-TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURERS RECOMMENDATIONS

7.3. ENGINEERED LUMBER PRODUCTS

7.3.1. PARALLEL STRAND LUMBER (PSL) SHALL HAVE THE FOLLOWING MINIMUM

F/B = 2900 PSI ALLOWABLE BENDING STRESS COMPRESSION PERPENDICULAR TO GRAIN $F/C^{\perp} = 750 PSI$ COMPRESSION PARALLEL TO GRAIN F/C|| = 2900 PS HORIZONTAL SHEAR F/V = 290 PSIMODULUS OF ELASTICITY E = 2,000,000 PSI 7.3.2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES: ALLOWABLE BENDING STRESS F/B = 2600 PSI

COMPRESSION PERPENDICULAR TO GRAIN $F/C^{\perp} = 750 PSI$ COMPRESSION PARALLEL TO GRAIN F/C | = 2510 PSI HORIZONTAL SHEAR F/V = 285 PSI MODULUS OF ELASTICITY E = 2,000,000 PSI 7.3.3. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM

ALLOWABLE BENDING STRESS F/B = 1700 PSICOMPRESSION PERPENDICULAR TO GRAIN $F/C^{\perp} = 710 PSI$ COMPRESSION PARALLEL TO GRAIN F/C|| = 1835 PSI HORIZONTAL SHEAR F/V = 425 PSI MODULUS OF ELASTICITY E = 1.300.000 PSI 7.3.4. GLULAM BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND

PROPERTIES: ALLOWABLE BENDING STRESS F/B = 3000 PSICOMPRESSION PERPENDICULAR TO GRAIN $F/C^{\perp} = 805 PSI$ TENSION PARALLEL TO GRAIN F/T|| = 1350 PSI HORIZONTAL SHEAR F/V = 300 PSI

MODULUS OF ELASTICITY E = 2,100,000 PSI 7.3.5. PRESERVED GLULAM BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS F/B = 2400 PSI COMPRESSION PERPENDICULAR TO GRAIN F/C[⊥] = 740 PSI HORIZONTAL SHEAR F/V = 300 PSIMODULUS OF ELASTICITY E = 1,800,000 PS

7.4. STRUCTURAL PANELS

7.4.1. FLOOR PANELS SHALL BE CONSTRUCTED WITH TONGUE AND GROOVE APA RATED, EXPOSURE 1, 23/43" PLYWOOD. FLOOR PANELS SHALL BE GLUED AND NAILED W/ 10d RING SHANK NAILS @ 4" O/C AT PANEL EDGES AND AT 6" O/C IN THE FIELD.

WALL PANELS SHALL BE CONSTRUCTED WITH APA RATED, EXPOSURE 1, 15/2, " SHEATHING, SHEATHING SHALL BE ATTACHED WITH 10d COMMON NAILS @ 3" O/C AT PANEL EDGES AND 6" O/C IN THE FIELD. ALL PANEL EDGES SHALL BE BLOCKED. 7.4.3. ROOF PANELS SHALL BE CONSTRUCTED WITH APA RATED, EXPOSURE 1. 19/22" SHEATHING. SHEATHING SHALL BE ATTACHED WITH 10d RING SHANK NAILS @ 4" O/C

AT PANEL EDGES AND AT 6" O/C IN THE FIELD. ALL PANEL EDGES SHALL BE BLOCKED OR ATTACHED WITH SIMPSON PSCA PANEL SHEATHING CLIPS. NAIL HEADS SHALL NOT PENETRATE THE OUTER SURFACE OF SHEATHING. 7.5. FABRICATED WOOD TRUSSES

7.5.1. DESIGN OF WOOD TRUSSES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, AND SUPPORT REACTIONS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO TRUSS CONFIGURATION, AND THE CONTRACTOR'S INTERPRETATION OF DESIGN LOADS AND DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE TRUSSES OR TRUSS CONNECTIONS NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS.

7.5.2. ERECTION AND TEMPORARY BRACING OF PREFABRICATED WOOD TRUSSES SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE TRUSS MANUFACTURER AND THE TRUSS PLATE INSTITUTE'S "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS 7.5.3. SECURE EACH COMMON ROOF TRUSS/RAFTER TO TOP PLATE WITH SIMPSON H-10 OR H-7 HURRICANE CLIP AT ALL BEARING POINTS. USE SIMPSON H-7 AT GIRDER TRUSSES. PROVIDE A MINIMUM OF TWO STUDS UNDER GIRDER TRUSS END

7.5.4. TRUSSES ON SITE PRIOR TO INSTALLATION SHALL BE STORED IN A VERTICAL POSITION WITH SUPPORT POINTS PROVIDED AT FINAL BEARING POINTS AND BRACED TO AVOID TIPPING.

7.5.5. INSTALLATION OF ALL TRUSSES SHALL BE DONE USING A SPREADER BAR WITH A THREE POINT VERTICAL PICK AND CARE IS TO BE USED IN LIFTING TO MINIMIZE 7.5.6. IMPROPER HANDLING OF THE TRUSSES AS NOTED ABOVE AND IN THE

SPECIFICATIONS SHALL MEAN REMOVAL OF THE TRUSSES FROM THE JOB SITE. 7.5.7. DOUBLE TRUSSES SHALL BE NAILED TOGETHER W/ 10d @12" O.C. EACH SIDE, TOP AND BOTTOM CHORDS & WEBS.

7.5.8. TRUSS TO TRUSS CONNECTIONS SHALL BE VERIFIED BY THE TRUSS DESIGNER. 7.5.9. CONTRACTOR TO REFER TO "STANDARD FOR HURRICANE RESISTANT CONSTRUCTION SSTD 10-99 FOR FRAMING REQUIREMENTS OF WOOD FRAMED

7.5.10. FLOOR TRUSS LOADS: FLOOR TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS UNLESS A SPECIAL LOADING PATTERN IS PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD.

TOP CHORD LIVE LOAD TOP CHORD DEAD LOAD 20 PSF BOTTOM CHORD DEAD LOAD 10 PSF

7.5.11. ROOF TRUSS LOADS: UNLESS A SPECIAL LOADING PATTERN IS PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD.

ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS TOP CHORD LIVE LOAD TOP CHORD DEAD LOAD 20 PSF

7.6.1. CONNECTIONS FOR STRUCTURAL TIMBER SHALL BE GALVANIZED STRONG TIE CONNECTORS BY THE SIMPSON COMPANY OR APPROVED EQUAL. CONNECTORS SHALL FOLLOW MANUF. CORROSION PROTECTION RECOMMENDATIONS.

7.6.2. THE NUMBER OF FASTENERS PER CONNECTION SHALL BE THE MAX. ALLOWED FOR THAT PARTICULAR FASTENER.

BOTTOM CHORD DEAD LOAD

8.1. ANCHOR TIE-DOWN RODS SHALL HAVE A MINIMUM SHAFT DIAMETER OF 1/2" (ONE HALF

8.2. TIE-DOWN RODS MAY BE CONNECTED DIRECTLY TO THE PLAN SPECIFIED 5/8" ANCHOR BOLTS USING A SIMPSON CNW5/8"-1/2" TRANSITION COUPLER NUT ABOVE THE REQUIRED BP3-5/8" AND 5/8" NUT ATOP THE SILL PLATE. 8.3. TIE-DOWN DIRECT CONNECTION MAY BE USED BY UTILIZING SIMPSON SET ANCHORAGE ADHESIVE WITH MINIMUM ROD EMBEDMENT OF 6" WHEREVER CAST-IN-PLACE ANCHOR

BOLTS ARE SPECIFIED FOR COUPLED EXTENSION TO ABOVE. 8.4. ANY PLACE WHERE A TIE-DOWN LOCATION IS FILLED WITH STUDS; USE A SIMPSON LTTI31 OR HDU5 HOLDOWN CONNECTED AT THE TOP AND BOTTOM OF A MINIMUM 2PLY STUD PACK TO PRESERVE TENSION LOAD PATH TO FLOORS ABOVE AND/OR BELOW.

RESUME INDICATED TIE-DOWN ROD PATH AT ENDS OF STUD PACK IF POSSIBLE. 8.5. SIMPSON LTTI31 & HDU5 HOLDOWNS SHALL BE ANCHORED INTO GROUT FILLED CMU WALLS OR PIERS WITH A SIMPSON SB5/8 OR SSTB ANCHOR BOLT WITH EMBEDMENT PER MFGR. RECOMMENDATION.

8.6. RODS SHALL INSTALLED PLUMB. THE MAXIMUM ALLOWABLE ROD DRIFT FROM PLUMB SHOULD NOT EXCEED 1.33 DEGREES OR MAXIMUM CENTERLINE OFFSET DISTANCE OF

8.7. TIE-DOWN RODS SHALL HAVE A SIMPSON BP-3 WITH NUT ATOP THE TERMINAL TOP PLATE. RODS AT SLOPED OR RAKED PLATES SHALL REQUIRE HILLSIDE WASHERS BETWEEN BP-3 AND NUT TO LEVEL.

8.8. ALL RODS ARE TO BE TIGHTENED AT EACH FLOOR AND THE TOP PLATE CONNECTION AFTER ROOF IS FULLY LOADED. JUST PRIOR TO GYPSUM BOARD INSTALLATION, ALL RODS WITH BP AND NUT CONNECTIONS TO THE BOTTOM SIDE OF THE FIRST FLOOR FRAMING SHALL BE TIGHTENED AT THE END OF THE CONSTRUCTION PROCESS PRIOR TO C.O. OPTIONAL: CONTRACTOR MAY INSTALL A SIMPSON BPRTUD AND RTUD TAKE-UP DEVICE AT THE TERMINAL TOP PLATE CONNECTION TO REMOVED UNWANTED SYSTEM SLACK DUE TO STRUCTURE SETTLING OR CREEP.

MASONRY WALLS: 9.1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530.1/ASCE 6/TMS 602 "SPECIFICATION FOR MASONRY STRUCTURES", LATEST EDITION.

NOT SUBJECT TO AXIAL LOADS MAY BE INSTALLED TO "SNUG TIGHT" CONDITION IF NORMAL, OR SHORT SLOTTED HOLES ARE USED. THE ENGINEER OF RECORD WILL BE 9.2. MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY

WITH UNIT STRENGTH OF 1900 PSI ON THE NET AREA (fm = 1500 PSI). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270.

9.3. GROUT SHALL BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476 AND HAVE A SLUMP BETWEEN 8" AND 11" WITH WATER CM RATIO OF 0.55 MAXIMUM AND WITH 3/8" MAXIMUM AGGREGATE. 9.4. PROVIDE HOOKED DOWELS IN FOUNDATIONS FOR VERTICAL REINFORCING ABOVE.

REFER TO TABLE FOR SPLICE LENGTH. 9.5. BLOCK CELLS SHALL BE GROUT FILLED WITH VERTICAL REINFORCING BARS AT

CORNERS, INTERSECTIONS, EACH SIDE OF OPENINGS AND AS SHOWN ON THE

9.6. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE AND/OR BELOW, UNLESS NOTED OTHERWISE. 9.7. USE METAL LATH, MORTAR OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO

ARFA AS REQUIRED. 9.8. MASONRY SHALL BE LAID IN RUNNING BOND PATTERN UNLESS NOTED OTHERWISE. AT FILLED CELLS LAY UNITS WITH FULL BED JOINTS AROUND CELLS.

9.9. PROVIDE 9 GAUGE GALVANIZED HORIZONTAL JOINT REINFORCING AT ALTERNATE BLOCK COURSES. LADDER TYPE IS RECOMMENDED WITH REINFORCED FILLED CELLS. PROVIDE PREFABRICATED "TEE" OR CORNER SECTIONS AT WALL INTERSECTIONS. 9.10. CONTROL JOINTS SHALL BE CONSTRUCTED IN CONCRETE MASONRY CONSTRUCTION AT A MAXIMUM HORIZONTAL SPACING BETWEEN JOINTS OF 25'-0" AND

NOT MORE THAN 12'6" FROM CORNERS, SEE ARCHITECTURAL DRAWINGS FOR EXACT.

SPACING OF 32'-0" OR 16'-0" FROM CORNERS. NO JOINTS SHALL BE LOCATED WITHIN 2'-0"

OF STEEL BEAM BEARINGS. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH

LOCATIONS. CONSTRUCT INTERIOR CONTROL JOINTS AT A MAXIMUM HORIZONTAL

SIDE OF CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS. 9.11. SUBMIT PROPOSED GROUT MIX DESIGNS FOR REVIEW PRIOR TO USE. MIX NUMBER OR OTHER POSITIVE IDENTIFICATION SHALL UNIQUELY IDENTIFY MIX.

9.12. USE OF SUPERPLASTICIZER IS PROHIBITED. 9.13. CELLS TO BE GROUT FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO

MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL GROUT SPACE. 9.14. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE GROUT FILLED IN EACH POUR IN EXCESS OF 5 FEET IN HEIGHT, AFTER INSPECTION AND BEFORE GROUTING, THE REBAR SHALL BE TIED AT THE CLEANOUTS AND THE CLEANOUTS SHALL BE SEALED.

9.15. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS.

9.16. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS. 9.17. ALL CELLS SHALL BE FILLED SOLIDLY WITH GROUT (U.N.O). SAMPLE AND TEST

GROUT PER ASTM C1019. 9.18. GROUT SHALL BE POURED IN LIFTS OF 4 FEET MAXIMUM HEIGHT. GROUT SHALL BE CONSOLIDATED AT TIME OF PLACING BY VIBRATING AND RECONSOLIDATED LATER BY VIBRATING BEFORE PLASTICITY IS LOST.

9.19. WHEN TOTAL GROUT POUR EXCEEDS 5 FEET IN HEIGHT. (HIGH LIFT GROUTING). THE GROUT SHALL BE PLACED IN 4-FOOT LIFTS WITH A MINIMUM OF A 30 MINUTE DELAY BETWEEN LIFTS. MINIMUM CELL DIMENSION SHALL BE IN ACCORDANCE WITH TABLE 5 OF ACI 530.1 (3" X 3" FOR COARSE GROUT, 12 FT. MAXIMUM POUR HEIGHT).

9.20. WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE BY STOPPING THE POUR OF GROUT NOT LESS THAN 1-1/2 INCH BELOW THE TOP OF THE UPPERMOST UNIT GROUTED. 9.21. MASONRY WALLS MARKED AS "LOAD BEARING" ARE DESIGNED TO CARRY FLOOR

GRAVITY LOADS AND MUST BE CONSTRUCTED TO SUPPORT THE CONCRETE FLOOR

SLAB CONCURRENTLY WITH CONCRETE COLUMN CONSTRUCTION 9.22. MASONRY WALLS INDICATED AS "INFILL" ARE DESIGNED TO RESIST LATERAL LOADS AND MUST BE CONSTRUCTED AFTER THE CONCRETE SLAB IS CAST AND POST TENSIONING OPERATION IS COMPLETED. INFILL WALLS SHALL BE CONSTRUCTED STARTING AT THE FOUNDATION LEVEL AND WORKING UPWARD ONE LEVEL AT A TIME DO NOT START NEXT HIGHER LEVEL OF WALL PRIOR TO COMPLETION OF WALL BELOW ALLOW A MINIMUM OF 3 DAYS CURING FOR GROUT OF WALL BELOW PRIOR TO STARTING

9.23. SINGLE STORY MASONRY WALLS INDICATED AS "PARTITION WALLS" SHALL BE CAST ON THICKENED SLAB FOUNDATIONS AND ARE NOT DESIGNED TO CARRY ANY LOADS FROM THE MAIN BUILDING STRUCTURES. ISOLATE TOP OF PARTITION WALLS FROM UNDERSIDE OF CONCRETE SLAB WITH A MINIMUM 1/2" THICK COMPRESSIBLE

START OF MASONRY CONSTRUCTION. 10. CHEMICAL (ADHESIVE) ANCHORS:

10.1.SHALL BE A TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS HILTI HIT

9.24. SUBMIT WRITTEN CONSTRUCTION SEQUENCES AND PROCEDURES PRIOR TO THE

HY150, HILTI RE500, OR SIMPSON SET ADHESIVE SYSTEM, OR ENGINEER APPROVED 10.2.EPOXY TYPES AND BRANDS VARY IN THEIR BOND STRENGTH AND SUITABILITY OF USE, DEPENDING ON TYPE OF LOADING, ANCHOR SPACING, ETC. WHEN A PARTICULAR TYPE OF EPOXY IS SPECIFIED IN THESE DRAWINGS. A UNIQUE CALCULATION HAS BEEN MADE BASED ON THE PROPERTIES OF THAT SPECIFIC TYPE OF EPOXY FOR THE SPECIFIC CONDITION SHOWN IN THE DETAIL. SUBSTITUTION OF EPOXY TYPE IS NOT ALLOWED WHERE DETAIL SPECIFIES ONLY ONE TYPE OF EPOXY, WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD. NOT ALL EPOXY BRANDS OR TYPES

WILL BE ALLOWED AS SUBSTITUTES. 10.3.SUBSTITUTION OF EPOXIES IN ONE CONDITION SHALL NOT BE CONSTRUED AS APPROVAL TO MAKE SIMILAR SUBSTITUTION OF EPOXIES IN OTHER DIFFERING CONDITIONS. EACH SUBSTITUTION MUST RECEIVE PRIOR WRITTEN APPROVAL BY THE

10.4.INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. 10.5.THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS.

10.6.THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL HOLE CLEAN-OUT REQUIREMENTS ARE FULLY COMPLETED BY THE INSTALLERS PRIOR TO INJECTING

10.7.NO LOAD SHALL BE APPLIED TO THE EPOXY ANCHORS UNTIL THE EPOXY HAS FULLY CURED AND HAS ACHIEVED IT'S SPECIFIED STRENGTH. 10.8.IF DETAIL SHOWS EPOXY ANCHORS IN SLOTTED HOLES, IT IS IMPERATIVE THAT ANY EXCESS EPOXY IS CLEANED UP FROM AROUND THE ANCHOR ROD, SO THAT IT

DOES NOT INTERFERE WITH ADJUSTABILITY OF ANCHOR ROD IN SLOTTED HOLE. 11. MECHANICAL ANCHORS: 11.1.SHALL BE EITHER HEAVY DUTY CONCRETE SCREW ANCHOR (SUCH AS POWERS

WEDGE-BOLT, SIMPSON TITEN HD. OR HILTI HUS-H) OR WEDGE TYPE EXPANSION ANCHOR (SUCH AS POWERS POWER-STUD, SIMPSON WEDGE-ALL, OR HILTI KWIK BOLT 11.2.TYPE OF ANCHOR SHALL BE AS SPECIFIED ON THE DRAWINGS, WHILE BRAND AND MODEL OF ANCHOR MAY BE SELECTED FROM THE ABOVE LISTED ANCHORS.

SUBSTITUTION ANCHORS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE. 11.3.IN SOME CASES OF CRITICAL LOADING OR GEOMETRIC CONDITIONS, ONLY SPECIFIC ANCHORS WILL BE ALLOWED, AS NOTED ON THE DRAWINGS. IN THESE CASES,

THE SPECIFIED BRAND AND MODEL OF ANCHOR MUST BE USED. 11.4.INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

11.5.THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS 11.6.MINIMUM EMBEDMENT DEPTH OF 1/4" TAPCONS INSTALLED IN CONCRETE SHALL

BE 1.25" AND INSTALLED INTO MASONRY SHALL BE 1.5". SELECT ANCHOR LENGTH AS REQUIRED TO ACHIEVE THE SPECIFIED MINIMUM EMBEDMENT DEPTH. 11.7.TAPCON SCREWS MAY BE REPLACED W/ 0.157" SHANK DIAMETER PAF ANCHORS (HILTI X-U OR EQUAL) ON A 1:1 SUBSTITUTION BASIS. MINIMUM EMBEDMENT DEPTH SHALL BE 1.25" WHEN INSTALLED INTO CONCRETE OR GROUTED MASONRY. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS, MINIMUM EDGE DISTANCES, AND

PLACEMENT LIMITATIONS (RELATIVE TO MORTAR JOINTS IN MASONRY).

12.1.STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSI/AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

12.2.MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED: WIDE FLANGE SHAPES ASTM A992 (Fv=50 KSI ANGLES, CHANNELS AND PLATES ASTM A36 (Fv=36 KSI) RECTANGULAR HSS ASTM A500. GRADE B (Fv=46 KSI HIGH STRENGTH BOLTS ASTM A325 OR A490 HREADED RODS ASTM A36 (Fv=36 KSI HEAVY HEX NUTS ASTM A563 HARDENED STEEL WASHERS

ASTM F1554 GR. 36 (Fy=36 KSI)

ANCHOR RODS

12.3.1. BOLTS SHALL BE HIGH-STRENGTH, BEARING TYPE IN SNUG TIGHT CONDITION, U.N.O.

TIGHTEN BY AN AISC APPROVED METHOD. 12.3.2. WELDING ELECTRODES SHALL BE PER AWS D1.1. RETURN FILLET WELDS FOR FRAMED CONNECTIONS 1/2" AT EACH END.

12.3.3. FIELD CONNECTIONS SHALL BE BOLTED, EXCEPT AS NOTED OTHERWISE 12.3.4. DETAIL FLOOR AND ROOF FRAMING CONNECTIONS FOLLOWING THE REQUIREMENTS SHOWN IN THE TYPICAL CONNECTION SCHEDULES SHOWN IN THESE DRAWINGS, BASED ON THE BEAM OR GIRDER SIZE.

OTHER FLOOR OR ROOF BEAMS, OR ANY FLOOR OR ROOF BEAM WHICH CARRIES STEEL COLUMNS 12.3.6. DETAIL DIAGONAL BRACING CONNECTIONS AS SHOWN IN THE DETAILS. IF NO DETAIL IS PROVIDED, DETAIL CONNECTION TO DEVELOP THE FULL TENSION CAPACITY OF THE DIAGONAL BRACING MEMBER.

12.4.HIGH STRENGTH BOLTS IN BEARING CONDITION SUPPORTING SIMPLE SPAN BEAMS

12.3.5. FOR THE PURPOSE OF CORRECTLY INTERPRETING THE CONNECTION SCHEDULES.

GIRDERS SHALL BE CONSIDERED AS ANY FLOOR OR ROOF BEAM WHICH CARRIES

THE ULTIMATE AUTHORITY IN THE USE OF "SNUG TIGHT" BOLTS. IF LONG SLOTTED OR OVERSIZED HOLES ARE USED, BOLTS MUST BE FULLY PRETENSIONED AND SLIP CRITICAL. PROPER SURFACE PREPARATION IS REQUIRED FOR SLIP CRITICAL BOLTS, INCLUDING OMISSION OF PRIMER OR FIRE PROOFING, AS APPROPRIATE.

12.5.BOLTS SHARING LOAD WITH WELDS IN A CONNECTION SHALL BE FULLY

PRETENSIONED AND SLIP CRITICAL. 12.6. WHERE FULLY PRETENSIONED OR SLIP CRITICAL BOLTS ARE REQUIRED,

OR DIRECT TENSION INDICATING WASHERS. 12.7.ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE

TIGHTENING SHALL BE ACHIEVED USING EITHER TWIST-OFF TENSION CONTROL BOLTS

HOT DIPPED GALVANIZED PER ASTM A153.

12.8.GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI IN 28 DAYS.

12.9.THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD. WHEN NO CAMBER IS INDICATED, TURN THE MEMBER NATURAL CAMBER UP. 12.10. APPLY FIREPROOFING TO STEEL STRUCTURE CALCULATING THE THICKNESS OF FIREPROOFING BY COMPARING THE ACTUAL MEMBER SIZE TO THE MEMBER SIZE USED

IN THE DESIGNATED UL RATING AND ADJUSTING APPROPRIATELY. RAILINGS AND HANDRAILS:

13.1.ENGINEERED RAILING SYSTEM AND CONNECTION OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

ARCHITECTURAL DRAWINGS. 13.3.RAILING SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE

13.2.THE CONFIGURATION OF THE RAILING SYSTEM SHALL BE AS SHOWN ON THE

LOADS AS INDICATED ON THE DRAWINGS AND IN THE BUILDING CODE. 13.4.THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS AND SHALL

13.5.SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE RAILING SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE DRAWINGS.

13.6.SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

14.1.SHOP DRAWINGS OR REPORTS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION (AS APPLICABLE) U.N.O.

STRUCTURAL SUBMITTALS

14.1.1. PILE INSTALLATION QUALITY CONTROL 14.1.2. PILE INSTALLTION MONITORING LOG 14.1.3. CONCRETE ADMIXTURES 14.1.4. CONCRETE STRENGTH TESTS

COMPLY WITH ALL APPLICABLE CODES.

14 1 5 CONCRETE DETAILING 14.1.6. ENGINEERED FILL COMPACTION TESTING 14.1.7. ENGINEERED ROOF AND FLOOR TRUSSES 14.1.8. STEEL JOISTS 14.1.9. STRUCTURAL STEEI 14.1.10.HANDRAILS AND STAIRS

No. 89388

STATE OF

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED

BY CODY L. HARDEN, P.E., STATE OF FLORIDA 89388, ON THE

DATE ADJACENT TO THE SEAL USING A SHA AUTHENTICATION

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED

SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE

MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ENGINEERING AND CONSULTING

455 HARRISON AVE. SUITE B

PANAMA CITY. FI ORIDA 3240

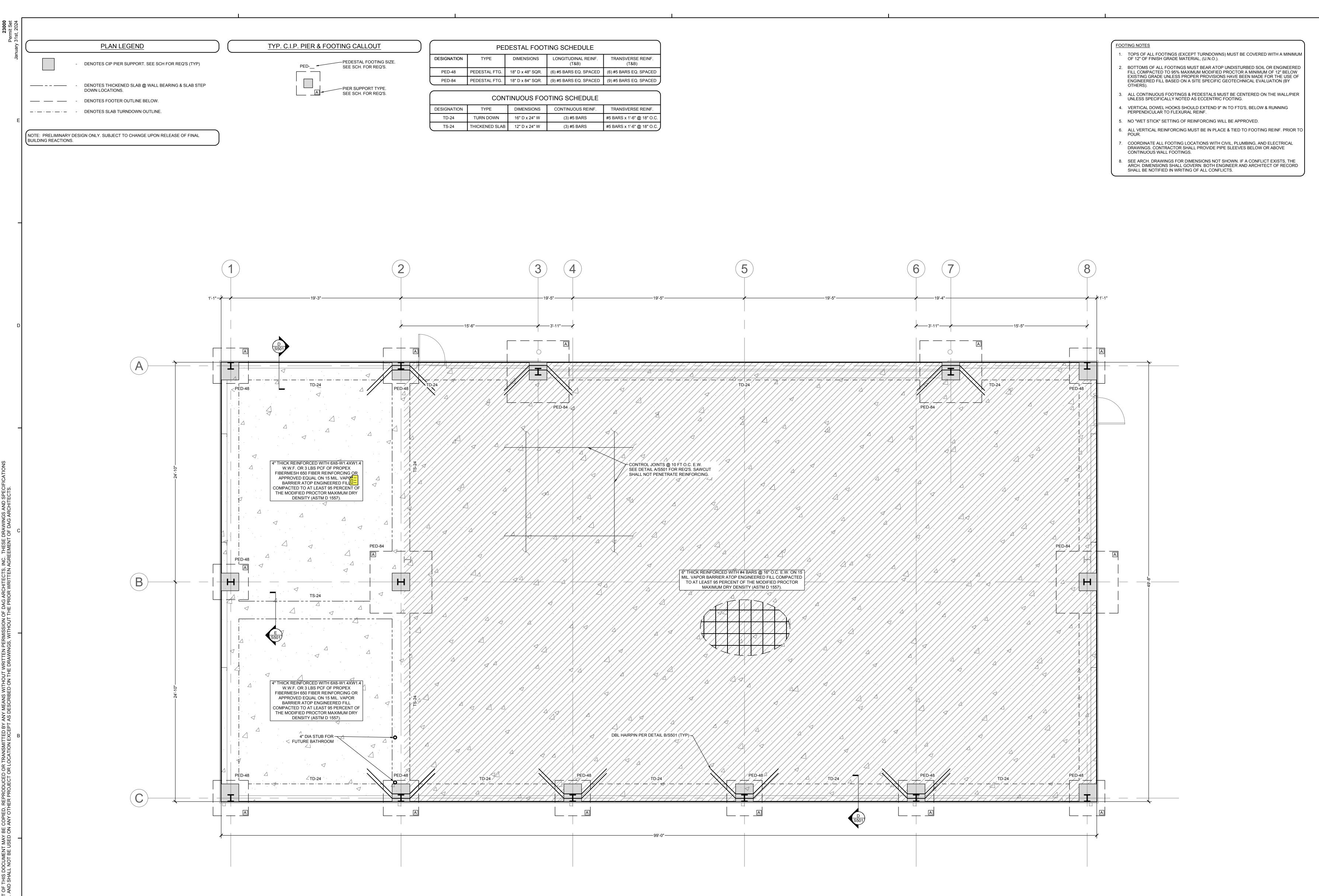
PHONE: (850) 257-5316 EMAIL: INFO@ATLASENG.US REGISTRY NO. 34399



DAG Architects AR0009694 455 Harrison Ave Suite I & J Panama City, FL 32401 850.387.1671 www.DAGarchitects.com

PROJECT NUMBER 01.31.2024 DATED

STRUCTURAL GENERAL





PHONE: (850) 257-5316 EMAIL: INFO@ATLASENG.US REGISTRY NO. 34399

DAG

ARCHITECTS

DAG Architects AR0009694
455 Harrison Ave Suite I & J Panama City, FL 32401

850.387.1671 www.DAGarchitects.com

> PERMIT SET

CONSTRUCTION DOCUMENTS

TY SHERIFF

No. 89388

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STATE OF

STATE OF

ORIDA

ONLINE

REVISIONS:

No. Description Date

FOUNDATION PLAN

 PROJECT NUMBER
 23084

 DATED
 01.31.2024

S101

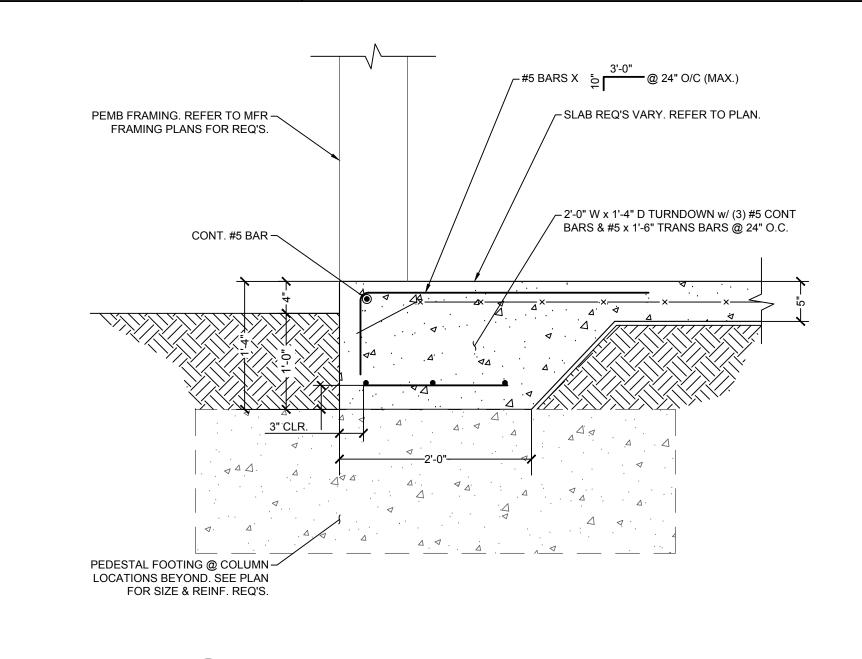
TYP. HAIRPIN DETAIL

SCALE: 1" = 1'-0"

(8) #7 VERT. BARS & #4
CLOSED STIRRUPS @
8" O.C. (MAX.)

TYP. CONCRETE PIER DETAIL

SCALE: 1" = 1'-0"



TYP. TURNDOWN DETAIL

SCALE: 1" = 1'-0"

CONSTRUCTION DOCUMENTS

ARCHITECTS

DAG Architects AR0009694 455 Harrison Ave Suite I & J Panama City, FL 32401 850.387.1671 www.DAGarchitects.com

PERMIT

V HANGAR AND HELIPAD PROJECT FOR:

Y COUNTY SHERIFFS

FILE

No. 89388

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STATE OF

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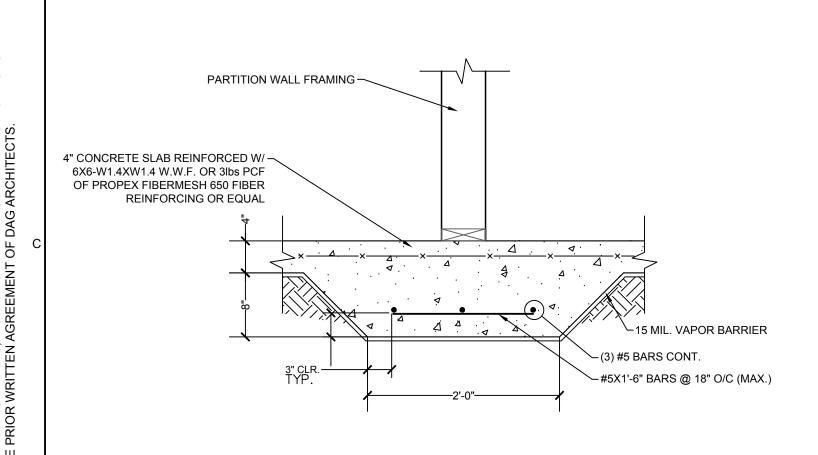
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STRUCTURAL
CONSTRUCTION DETAILS

 PROJECT NUMBER
 23084

 DATED
 01.31.2024

S501



TYP. THICKENED SLAB DETAIL

SCALE: 1" = 1'-0"

24-37 Bay County Sheriff's Office Helicopter Facility

