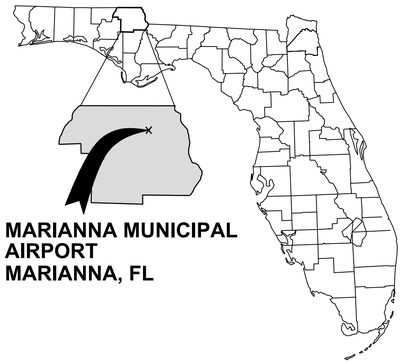
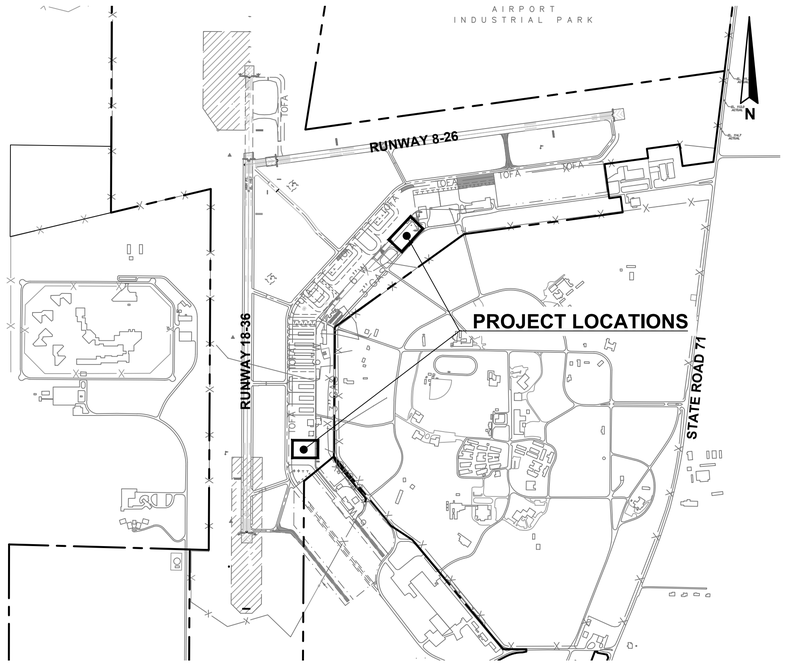
MAI HANGAR DEVELOPMENTS

MARIANNA MUNICIPAL AIRPORT (MAI)
MARIANNA, FLORIDA



VICINITY MAP
NTS



SITE LOCATION MAP
NTS

CITY OF MARIANNA CITY COMMISSIONERS

DISTRICT 5: KENNETH HAMILTON, MAYOR
DISTRICT 2: JOHN ROBERTS, MAYOR PRO TEMPORE
DISTRICT 1: TRAVIS EPHRIAM
DISTRICT 3: ALLEN WARD
DISTRICT 4: RICO WILLIAMS

PREPARED FOR:

CITY OF MARIANNA FLORIDA

THE CITY OF MARIANNA
CITY MANAGER: WILLIAM LONG
PUBLIC WORKS DIRECTOR: CLAY WELLS
AIRPORT MANAGER: DOUGLAS GLASS

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P502	PLUMBING DETAILS
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RELEASE FOR BID

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CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

COVER SHEET AND DRAWING INDEX

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
G-1

GENERAL NOTES:

1. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, PERMANENT CONTROL POINTS, PERMANENT BENCH MARKS AND PROPERTY CORNERS. IN THE EVENT THE MONUMENTS, POINTS OR MARKERS ARE DISTURBED THE CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE THEM.

2. CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING, SIDEWALKS, PAVEMENTS, CURBS, AND SOD NOT SPECIFIED FOR REMOVAL IN THESE PLANS. ANY DAMAGE TO THE EXISTING IMPROVEMENTS SHALL BE RESTORED BY THE CONTRACTOR AT NO COST TO THE OWNER, UNLESS OTHERWISE SPECIFIED HEREIN.

3. UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH THE FOLLOWING SPECIFICATIONS: CITY OF MARIANNA, FAA, AND FDOT.

4. NOT USED

5. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUB-SURFACE CONDITIONS, THE WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY EFFECT THE SUCCESSFUL COMPLETION OF THE JOB PRIOR TO COMMENCEMENT OF WORK.

6. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND PERMIT CONDITIONS BEARING ON THE CONDUCT OF THE WORK, AS DRAWN AND SPECIFIED. IF THE CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, HE SHALL PROMPTLY NOTIFY THE ENGINEER, IN WRITING, AND ANY NECESSARY CHANGES SHALL BE ADJUSTED, AS PROVIDED IN THE AGREEMENT FOR CHANGES IN THE WORK.

7. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER AND THE ENGINEER FOR THE ACTS AND OMISSIONS OF CONTRACTOR'S EMPLOYEES AND ALL HIS SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH GOVERNMENTAL DEPARTMENTS, PUBLIC UTILITIES, PUBLIC CARRIERS, SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, AND TELEGRAPH FACILITIES SUCH AS PAVEMENTS, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS, OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED THEREWITH THAT ARE ENCOUNTERED IN THE WORK IN ORDER THAT SUCH ITEMS MAY BE PROPERLY SUPPORTED, PROTECTED OR LOCATED.

9. UNLESS OTHERWISE SPECIFIED IN THE GENERAL CONDITIONS, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, APPLICABLE PERMITS, AND SPECIFICATIONS HEREIN, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING AND SAFETY CODES, LAWS AND ORDINANCES.

10. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN CONSISTENT WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

11. PRIOR TO PERFORMING ANY WORK WITHIN ANY UTILITY RIGHT-OF-WAY, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMIT FROM JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY.

12. IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER.

13. THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS, SHALL AT ALL TIMES HAVE ACCESS TO THE WORK WHEREVER AND WHENEVER IT IS IN PREPARATION OR PROGRESS; AND THE CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR SUCH ACCESS AND FOR THE INSPECTION.

14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL REASONABLE AND PRUDENT PRECAUTIONS TO ENSURE THAT ALL COMPLETED WORK, MATERIALS AND EQUIPMENT STORED ON SITE ARE SAFE AND SECURED FROM UNAUTHORIZED ACCESS OR USE. SUCH PRECAUTIONS MAY INCLUDE INSTALLATION OF SIGNS, FENCES, OR POSTING OF SECURITY GUARDS.

15. CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND GUIDELINES PERTAINING TO SAFE UTILIZATION OF EQUIPMENT OR MATERIALS AS PUBLISHED BY MANUFACTURER.

16. PRIOR TO INITIATING ANY EXCAVATION (INCLUDING BUT NOT LIMITED TO TUNNELS, DITCHES, STORMWATER PONDS, CANALS) CONTRACTOR SHALL INSTALL FENCES AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO ENSURE THAT ACCESS TO EXCAVATION BY UNAUTHORIZED PERSONNEL IS PREVENTED.

17. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:

    17.1. ALL EMPLOYEES ON THE WORK SITE AND ALL OTHER PERSONS WHO MAY BE AFFECTED THEREBY;

    17.2. ALL WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS;

    17.3. ANY OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAY, STRUCTURES AND UTILITIES NOT DESIGNATED FOR DEMOLITION IN THE COURSE OF CONSTRUCTION.

18. CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS ON INDUSTRIAL PARK DRIVE AT ALL TIMES, UNLESS CLOSED FOR CONSTRUCTION.

19. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC, QUASI-PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THEIR PROTECTION AGAINST DAMAGE, INJURY OR LOSS, OR DESIGNED TO PROTECT THE ENVIRONMENT. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND OF THE SAFETY REGULATIONS.

20. ALL DAMAGE OR LOSS TO ANY PROPERTY REFERRED TO IN CLAUSES 17.2 AND 17.3 CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, A SUBCONTRACTOR, OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER, OR THE ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART, TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.

21. UNTIL FINAL ACCEPTANCE OF THE WORK BY OWNER, THE CONTRACTOR SHALL HAVE THE CHARGE AND CARE OF AND SHALL BEAR THE RISK OF INJURY OR DAMAGE, LOSS OR EXPENSE TO ANY PART THEREOF, OR TO ANY MATERIALS STORED ON SITE, BY THE ACTION OF THE ELEMENTS OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD ALL INJURIES OR DAMAGES TO ANY PORTION OF THE WORK OCCASIONED BY ANY OF THE ABOVE CAUSES BEFORE FINAL ACCEPTANCE AND SHALL BEAR THE EXPENSES THEREOF.

22. THOSE PARTS OF WORK IN PLACE WHICH ARE SUBJECT TO DAMAGE BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.

23. PERMANENT OPENINGS USED AS THOROUGHFARES FOR THE INTRODUCTION OF WORK AND MATERIALS TO THE STRUCTURE SHALL HAVE HEADS, JAMBS AND SILLS WELL BLOCKED AND BOARDED BY THE CONTRACTOR. OWNER RETAINS THE AUTHORITY, BUT ASSUMES NO DUTY, TO ESTABLISH STANDARDS OF PROTECTION, AND TO REVIEW THE EFFICIENCY OF PROTECTIVE MEASURES TAKEN BY THE CONTRACTOR.

24. ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMAN SERVICES SHALL BE FURNISHED AND MAINTAINED BY THE CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTERS ONTO OR CROSSES TRAFFIC-CARRYING ROADS.

25. THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ACT OF 1970 AND ALL RULES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT, AND THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY AND ALL APPLICABLE STATE LAWS AND REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH.

26. THE CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COSTS, ATTORNEY'S FEES, EXPENSES, CAUSES OF ACTION, CLAIMS OR JUDGMENTS RESULTING FROM THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AS AMENDED OR ANY RULE OR REGULATION PROMULGATED THEREUNDER OR OF ANY STATE LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, AND CONTRACTOR SHALL INDEMNIFY OWNER FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING ATTORNEY'S FEES PAID OR INCURRED BY OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENTS AND EMPLOYEES. THE CONTRACTOR FURTHER AGREES, IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL OR STATE SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, OWNER MAY IMMEDIATELY TAKE WHATEVER ACTION IS DEEMED NECESSARY BY OWNER TO REMEDY THE CLAIMED VIOLATION. ANY AND ALL COSTS OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COSTS OR EXPENSES.

27. ALL WORK PERFORMED UNDER THE CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE WORK SHALL CONFORM TO APPLICABLE SAFETY CODES AND REGULATIONS OF ANY PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT INTERPRETATION OR REGULATION SHALL GOVERN.

28. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT AN EROSION CONTROL PLAN TO MINIMIZE EROSION AND ENSURE FUNCTIONING OF STORMWATER MANAGEMENT SYSTEM UPON COMPLETION OF CONSTRUCTION.

29. CONTRACTOR AND ITS SUBCONTRACTORS SHALL USE, HANDLE, TRANSPORT, AND DISPOSE OF ALL HAZARDOUS MATERIALS (AS DEFINED PARAGRAPH 36.) IN COMPLIANCE WITH ALL PRESENT FEDERAL, STATE AND LOCAL ENVIRONMENTAL, HEALTH OR SAFETY LAW, INCLUDING, BUT NOT LIMITED TO, ALL SUCH STATUTES, REGULATIONS, RULES, ORDINANCES, CODES, AND RULES OF COMMON LAW.

30. CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.

31. CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS CONTRACT, REMOVE ALL SUPPLIES, MATERIALS, AND WASTE CONTAINING AND HAZARDOUS MATERIAL FROM THE JOB SITE. CONTRACTOR SHALL BEAR FULL FINANCIAL RESPONSIBILITY, AS BETWEEN THE PARTIES OF THIS CONTRACT, FOR THE COMPLIANCE OF CONTRACTOR AND ITS SUBCONTRACTORS WITH THE PROVISIONS OF THIS PARAGRAPH.

32. CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY CLAIMS INCLUDING, WITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COSTS OF INVESTIGATION, SOILS TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEAN-UP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS, OR REPRESENTATIVES, TO COMPLY WITH THE TERMS OF THIS ARTICLE.

33. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE JOB SITE IN VIOLATION OF REGULATIONS, CONTRACTOR SHALL IMMEDIATELY SO INFORM OWNER IN WRITING.

34. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY. IN THE EVENT CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER, OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO OWNER IN WRITING.

35. IF CONTRACTOR OR ITS SUBCONTRACTORS DO NOT COMPLY WITH FEDERAL AND STATE REQUIREMENTS, OWNER MAY, BUT IS NOT OBLIGATED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH THE REQUIREMENTS WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE OR WITHIN THE TIME OF AN ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.

36. "HAZARDOUS MATERIAL" MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, ORDINANCE, RULE, CODE, ORDER, ACTION, POLICY OR COMMON LAW, OR (B) WHICH IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE," "HAZARDOUS SUBSTANCE," POLLUTANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, RULE OR ORDINANCE OR AMENDMENTS THERETO INCLUDING, WITHOUT LIMITATION, THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (42 U.S.C. SECTIONS 9601 ET SEQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET SEQ.), OR (C) WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC, OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD, AGENCY OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE IN WHICH THE PREMISES ARE LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR (D) THE PRESENCE OF WHICH ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR (E) WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENYLS (PCBS), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.

37. THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES AS TO SIZE, LOCATION, AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.

38. IF ANY TESTING, INSPECTION OR APPROVAL REVEAL DEFECTIVE WORK, CONTRACTOR SHALL NOT BE ALLOWED TO RECEIVE ANY ASSOCIATED COSTS AND THE OWNER SHALL BE ENTITLED TO DEDUCT FROM THE CONTRACT PRICE, BY ISSUING A CHANGE ORDER, OWNER'S COSTS ARISING OUT OF THE DEFECTIVE WORK, INCLUDING COSTS OF REPEATED PROCEDURES, COMPENSATION FOR ENGINEER'S AND DESIGN ENGINEER'S SERVICES AND OTHER RELATED COSTS.

39. TYPE AND HEIGHT (NOT-TO-EXCEED) OF CONSTRUCTION EQUIPMENT:

    TRUCKS (DUMP, FLATBED, PANEL, PICKUP, CONCRETE) – 15 FEET
    FRONT END LOADERS – 15 FEET
    DOZERS – 15 FEET
    CRANE – 50 FEET
    ROLLERS AND COMPACTORS – 15 FEET

*NOTE – CONSTRUCTION EQUIPMENT LOCATIONS SHALL NOT VIOLATE RUNWAY 7 TO 1 TRANSITIONAL SURFACES AND RUNWAY APPROACH ZONE HEIGHT LIMITATIONS EXCEPT UNDER SPECIAL WAIVER CONDITIONS. APPROPRIATE WAIVERS MUST BE REQUESTED BY THE CONTRACTOR AT LEAST 60 DAYS PRIOR TO EQUIPMENT EXCEEDING THESE LIMITATIONS ACCESSING AIRPORT PROPERTY. HOWEVER, APPROVAL OF EQUIPMENT EXCEEDING THESE LIMITATIONS IS NOT GUARANTEED. WAIVER MUST BE OBTAINED BY THE OWNER FROM FAA.

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

GENERAL NOTES

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
G-2

BASE BID- COMMERCIAL HANGAR				
ITEM NUMBER	BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	102-1	MAINTENANCE OF TRAFFIC	LS	1
3	104-1	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
4	110-1	COMPLETE CONCRETE AND BASE REMOVAL	SY	435
5	110-2	MISC. UTILITY/FENCE DEMOLITION	LS	1
6	120-1	UNCLASSIFIED EXCAVATION AND EMBANKMENT	LS	1
7	160-1	8" STABILIZED SUBGRADE	SY	1,255
8	160-2	12" STABILIZED SUBGRADE	SY	855
9	204-1	8" GRADED AGGREGATE BASE COURSE	SY	1,930
10	204-2	GRADED AGGREGATE (GRAVEL)	SY	35
11	334-1	2" BITUMINOUS SURFACE COURSE	TN	127
12	346-1	10" PCC APRON	SY	715
13	425-1	FDOT TYPE "F" DBI	EA	5
14	425-2	ADS YARD DRAIN	EA	6
15	430-1	12" ADS, N-11	LF	315
16	430-2	18" ADS, N-12	LF	305
17	430-3	24" ADS, N-12	LF	100
18	430-4	18" MES	EA	1
19	520-1	CONCRETE WHEEL STOP	EA	13
20	522-1	CONCRETE SIDEWALK	SY	135
21	527-1	DETECTABLE WARNING SURFACES	EA	1
22	700-1	VEHICULAR SIGNAGE	LS	1
23	710-1	VEHICULAR PAVEMENT MARKINGS, (WHITE)	SF	136
24	710-2	VEHICULAR PAVEMENT MARKINGS, (BLUE)	SF	20
25	711-1	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	30
26	711-2	HANDICAP PARKING SYMBOL	EA	1
27	981-1	CENTIPEDE SOD- COMMERCIAL HANGAR	SY	5,990
28	02660-1	POTABLE WATER INFRASTRUCTURE	LS	1
29	02660-2	CONCRETE ENCASED 6" DIP WATER LINE	LF	190
30	02730-1	SANITARY SEWER INFRASTRUCTURE	LS	1
31	02730-2	LIFT STATION	EA	1
32	F-162-1	FENCING	LF	190
33	F-162-2	5' PEDESTRIAN GATE WITH CONTROLS	EA	1
34	P-620-1	AIRFIELD PAVEMENT MARKINGS WITH REFLECTIVE MEDIA, YELLOW	SF	30
35	P-620-2	AIRFIELD PAVEMENT MARKINGS WITHOUT REFLECTIVE MEDIA, BLACK	SF	60
36	SP-1	DUMPSTER ENCLOSURE	EA	1
37	CH-1	COMMERCIAL HANGAR, COMPLETE	LS	1

ADDITIVE ALTERNATE NO. 1 - NORTH T-HANGAR				
ITEM NUMBER	BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	102-1	MAINTENANCE OF TRAFFIC	LS	1
3	104-1	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
4	110-1	COMPLETE CONCRETE AND BASE REMOVAL	SY	5,710
5	120-1	UNCLASSIFIED EXCAVATION AND EMBANKMENT	LS	1
6	160-2	12" STABILIZED SUBGRADE	SY	5,310
7	204-1	8" GRADED AGGREGATE	SY	4,870
8	346-1	10" PCC APRON	SY	4,425
9	522-2	CONCRETE FLUME	EA	1
10	981-2	CENTIPEDE SOD- NORTH HANGAR	SY	125
11	02660-1	POTABLE WATER INFRASTRUCTURE	LS	1
12	P-620-1	AIRFIELD PAVEMENT MARKINGS WITH REFLECTIVE MEDIA, YELLOW	SF	600
13	P-620-2	AIRFIELD PAVEMENT MARKINGS WITHOUT REFLECTIVE MEDIA, BLACK	SF	1,200
14	TH-1	NORTH T-HANGAR, COMPLETE	LS	1

ADDITIVE ALTERNATE NO. 2 - SOUTH T-HANGAR				
ITEM NUMBER	BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	102-1	MAINTENANCE OF TRAFFIC	LS	1
3	104-1	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
4	110-1	COMPLETE CONCRETE AND BASE REMOVAL	SY	5,160
5	120-1	UNCLASSIFIED EXCAVATION AND EMBANKMENT	LS	1
6	160-2	12" STABILIZED SUBGRADE	SY	4,635
7	204-1	8" GRADED AGGREGATE	SY	4,250
8	346-1	10" PCC APRON	SY	3,865
9	981-3	CENTIPEDE SOD- SOUTH HANGAR	SY	85
10	02660-1	POTABLE WATER INFRASTRUCTURE	LS	1
11	P-620-1	AIRFIELD PAVEMENT MARKINGS WITH REFLECTIVE MEDIA, YELLOW	SF	330
12	P-620-2	AIRFIELD PAVEMENT MARKINGS WITHOUT REFLECTIVE MEDIA, BLACK	SF	660
13	TH-2	SOUTH T-HANGAR, COMPLETE	LS	1

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
NICEVILLE, FL. 32578-2425
OFFICE: (850) 678-0050
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

SUMMARY OF QUANTITIES

RELEASE FOR BID

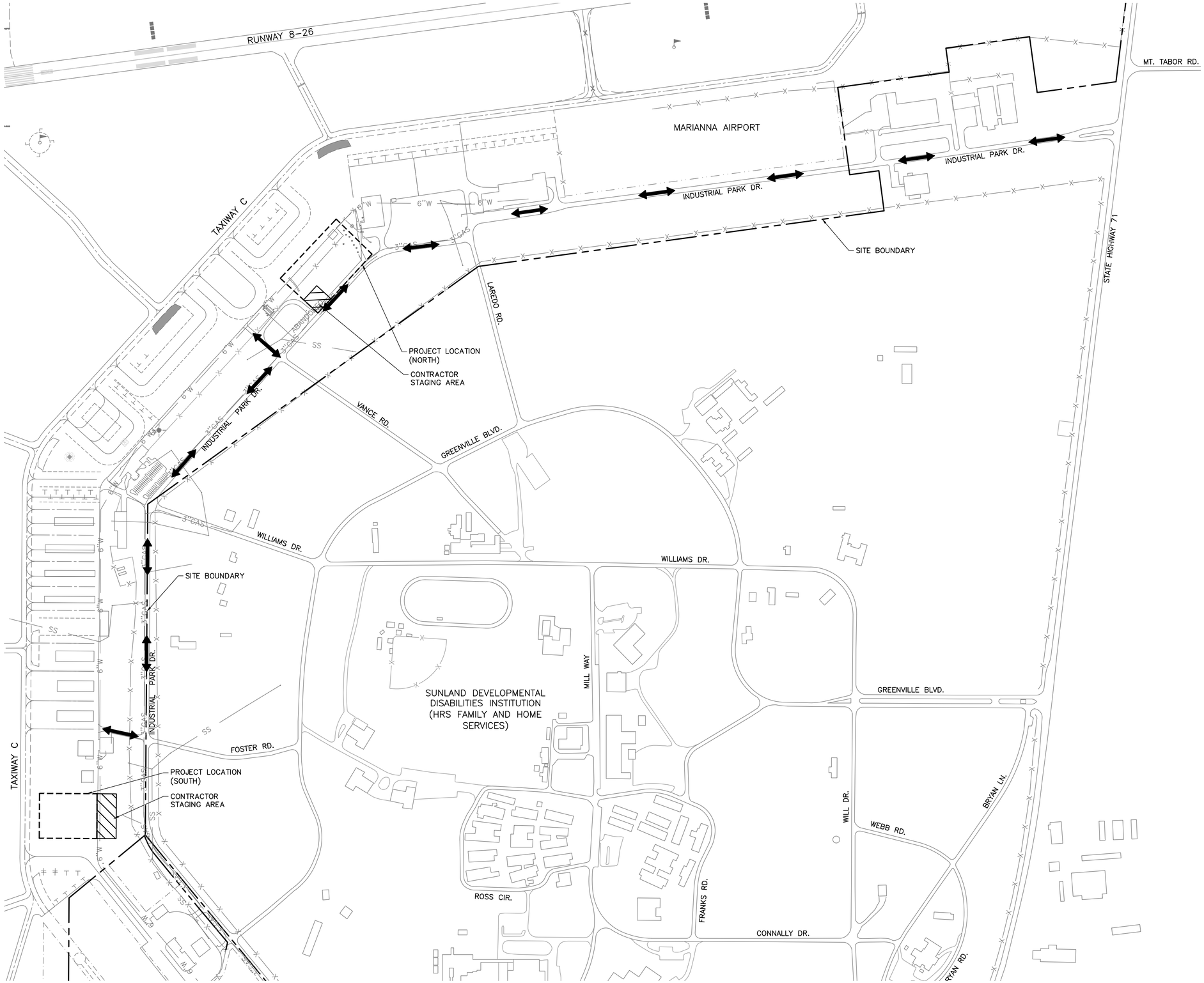
MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY: J.R.C.
DRAWN BY: M.A.B.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
PROJECT NO: 2022.260.03
DATE: JANUARY 2024

SHEET
G-3



NOTES:

1. ALL COSTS ASSOCIATED WITH PREPARING THE STAGING AREA SITE SHALL BE BORNE BY THE CONTRACTOR. THIS INCLUDES, BUT IS NOT LIMITED TO, ACCESS ROADS, STORAGE AND STAGING AREA SECURITY FENCING, ETC. THE CONTRACTOR SHALL MAKE PROVISIONS FOR ALL REQUIRED TEMPORARY UTILITIES.
2. AT THE COMPLETION OF THE CONTRACT THE CONTRACTOR SHALL LEAVE THE STORAGE AND STAGING AREAS IN AN EQUAL OR BETTER CONDITION THAN PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES RE-ESTABLISHING ACCEPTABLE TURF.
3. ALL COSTS FOR CONTROLLING DUST OR POLLUTANTS TO THE AIR OF ANY KIND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAY ITEM SHALL BE PROVIDED.
4. AT NO TIME SHALL THERE BE AN UNSECURED GAP IN THE AIRPORT SECURITY FENCE.

LEGEND

- PROPERTY LINE
- HAUL ROUTE
- CONTRACTOR STAGING AREA

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CONSTRUCTION SAFETY & ACCESS PLAN

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

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SAFETY NOTES:

1. AIRPORT OPERATIONS – THE CONTRACTOR SHALL APPOINT SAFETY OFFICERS IN ACCORDANCE WITH THE PROJECT MANUAL. THE CONTRACTOR SHALL ALSO ACQUAINT ALL SUPERVISORS AND EMPLOYEES WITH THE ACTIVITIES OF THE PERRY–FOLEY AIRPORT AND OPERATIONS THAT ARE INHERENT AT THIS ACTIVE AIRPORT AND SHALL CONDUCT CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND GUIDELINES ON SAFETY SPECIFIED IN THE PROJECT MANUAL AND AS SPECIFIED BY THE FIELD REPRESENTATIVE AND THE FAA.

2. VEHICLE IDENTIFICATION – ALL CONTRACTOR VEHICLES THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3' X 3' OR LARGER ORANGE AND WHITE CHECKERED FLAG, EACH CHECK BEING 1' SQUARE. COMPANY DECALS WITH NOT LESS THAN 6" LETTERS MAY BE SUBSTITUTED FOR FLAGS ON SUPERVISORY VEHICLES AND LIGHT TRUCKS. ALL VEHICLES OPERATING IN THE ACTIVE AIRPORT OPERATIONS AREA (AOA) DURING THE HOURS OF DARKNESS SHALL BE EQUIPPED WITH A FLASHING YELLOW DOME – TYPE LIGHT MOUNTED ON TOP OF THE VEHICLE AND OF SUCH INTENSITY TO CONFORM TO LOCAL CODES FOR MAINTENANCE AND EMERGENCY VEHICLES.

3. GROUND CONTROL – NO CONTRACTOR VEHICLES OR EQUIPMENT SHALL ACCESS OR CROSS ACTIVE RUNWAYS, TAXIWAYS, OBJECT FREE AREAS AND APPROACH CLEAR ZONES. ACCESS ONTO THE EXISTING APRON SHALL BE LIMITED TO THE NORTHERNMOST 40 FT OF THE APRON PAVEMENT. CONTRACTOR SHALL YIELD RIGHT–OF–WAY TO AIRCRAFT AT ALL TIMES.

4. WORK REQUIRING PAVEMENT CLOSURE SHALL BE PERFORMED IN ACCORDANCE WITH THE SAFETY PLANS AND THE PROJECT MANUAL. NO RUNWAY, TAXIWAY, APRON OR AIRPORT ROADWAY SHALL BE CLOSED WITHOUT APPROVAL OF AIRPORT MANAGEMENT. TO ENABLE NECESSARY NOTICES TO AIRMEN (NOTAMS) OR ADVISORIES TO AIRPORT SERVICES OR TENANTS, A MINIMUM OF SEVENTY–TWO (72) HOURS WRITTEN NOTICE OF REQUESTED CLOSING SHALL BE DIRECTED TO THE OWNER, WHO WILL COORDINATE THE REQUEST WITH FAA AND AIRPORT OPERATIONS.

5. OPEN TRENCHES – ANY CONSTRUCTION ABOVE 3" OR OPEN TRENCHES IN EXCESS OF 3" WITHIN 150' OF AN ACTIVE RUNWAY CENTERLINE OR WITHIN 48' FROM AN ACTIVE TAXIWAY CENTERLINE WILL REQUIRE CLOSURE OF THE AFFECTED RUNWAY OR TAXIWAY, UNLESS OTHERWISE APPROVED BY THE OWNER. (SEE NOTE 4 ABOVE). ALL TRENCHING MUST BE CONSTRUCTED TO MEET ALL FEDERAL, STATE (FLORIDA TRENCH SAFETY ACT) AND LOCAL LAWS (INCLUDES OSHA STANDARDS).

6. TRENCH MARKING – OPEN TRENCHES AND EXCAVATIONS LOCATED WITHIN 200' FROM AN ACTIVE TAXIWAY CENTERLINE SHALL BE PROMINENTLY MARKED WITH FLAGS AND LIGHTED BY APPROVED LIGHT UNITS (FLARE POTS NOT ALLOWED) DURING HOURS OF RESTRICTED VISIBILITY AND DARKNESS. THE CONTRACTOR WILL ENSURE THAT AN EMPLOYEE REMAINS ON–CALL TWENTY–FOUR (24) HOURS PER DAY FOR EMERGENCY MAINTENANCE OF HAZARD LIGHTING AND BARRICADES. NO OPEN TRENCHES ARE PERMITTED ADJACENT TO ACTIVE AOA, UNLESS APPROVED BY AIRSIDE OPERATIONS. THESE TRENCHES SHALL BE BACKFILLED WHEN THE CONTRACTOR IS NOT PERFORMING CONSTRUCTION IN THESE TRENCHES. DITCHES OR EXCAVATIONS PERMITTED TO REMAIN OPEN SHALL BE COMPLETELY ENCLOSED WITHIN AIRPORT–TYPE BARRICADES AND PROPERLY LIGHTED. INDIVIDUAL FLAGS AND/OR LIGHTS WILL NOT BE PERMITTED AROUND OPEN TRENCHES/EXCAVATIONS DURING NIGHTTIME HOURS.

7. OPEN FLAME – OPEN FLAME, WELDING OR TORCH–CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN TAKEN AND THE PROCEDURE APPROVED BY AIRPORT OPERATIONS.

8. STOCKPILE EROSION AND DUST CONTROL – STOCKPILED MATERIAL AND OPEN EXCAVATIONS SHALL BE TREATED IN SUCH A MANNER AS TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT BLAST OR WIND CONDITIONS IN EXCESS OF 10 KNOTS. STOCKPILED MATERIALS SHALL NOT BE PERMITTED WITHIN 250' OF AN ACTIVE RUNWAY CENTERLINE OR 65.5' FROM AN ACTIVE TAXIWAY CENTERLINE.

9. DEBRIS CONTROL – DEBRIS, WASTE AND LOOSE MATERIAL SHALL NOT BE ALLOWED ON ACTIVE AIRCRAFT MOVEMENT AREAS OR APRONS. IF OBSERVED TO BE ON ACTIVE AIRCRAFT MOVEMENT AREAS OR APRONS, THE MATERIAL WILL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE FIELD REPRESENTATIVE MAY DIRECT THAT DEBRIS PROBLEMS DURING CONSTRUCTION NOT CORRECTED BY THE CONTRACTOR BE CORRECTED BY OTHERS AT THE EXPENSE OF CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO KEEP THE PAVEMENTS ADJACENT TO THE WORK AREA CLEAR OF DEBRIS AND FOD AT ALL TIMES.

10. INSPECTION BY OPERATIONS – PRIOR TO OPENING FOR AIRCRAFT USE AND THE DEPARTURE OF THE CONTRACTOR'S WORK CREWS, THE FIELD REPRESENTATIVE WILL ARRANGE FOR INSPECTION BY AIRPORT OPERATIONS OF ANY RUNWAY, TAXIWAY SAFETY AREA, OR APRON THAT HAS BEEN CLOSED FOR WORK, OR THAT HAS BEEN USED FOR A CROSSING POINT OR HAUL ROUTE BY THE CONTRACTOR. THESE AREAS MUST COMPLY WITH THE SAFETY REQUIREMENTS DEFINED BY FEDERAL AVIATION REGULATIONS PART 139 AND INTERPRETED BY THE DESIGNATED OPERATION'S INSPECTOR BEFORE PERMISSION FOR THE CONTRACTOR'S WORK CREWS TO DEPART WILL BE GRANTED.

11. NO SMOKING SHALL BE ALLOWED WITHIN THE AOA.

12. DESIGNATED AIRPORT REPRESENTATIVE SHALL HAVE THE AUTHORITY TO DISCONTINUE CONSTRUCTION OPERATIONS AT ANY TIME, FOR ANY REASON. THE AIRPORT REPRESENTATIVE CAN REQUIRE THE CONTRACTOR TO LEAVE THE AIRSIDE AOA AND/OR AIRPORT PROPERTY AND EVACUATE THE WORK AREA WITHIN THIRTY (30) MINUTES AFTER RECEIVING NOTICE.

13. ALL BARRICADE LIGHTING, TEMPORARY SIGNAGE AND COVERS SHALL BE VERIFIED BY THE CONTRACTOR FOR PROPER OPERATION AT THE END OF EACH DAY BEFORE THE CONTRACTOR CEASES OPERATION. THE INTENSITY OF THE LIGHTS AND THE SPACING FOR BARRICADES, SHALL BE ADEQUATE TO DELINEATE THE HAZARDOUS AREA WITHOUT AMBIGUITY. NO MORE THAN 10% OF THE LIGHTS FOR BARRICADES SHALL BE INOPERABLE AT ANY TIME, AND AT NO TIME SHALL TWO (2) CONSECUTIVE LIGHTS BE INOPERABLE. THE CONTRACTOR SHALL IMMEDIATELY REPLACE ANY BARRICADES, LIGHTS OR FLAGS WHICH IN THE OPINION OF THE FIELD REPRESENTATIVE OR AIRPORT OPERATIONS ARE NOT ADEQUATE.

14. SAFETY GUIDELINES – IN THE INTEREST OF SAFETY, THE CONTRACTOR IS ALSO DIRECTED TO ACQUAINT HIS/HER EMPLOYEES WITH THE PROVISIONS OF THE FOLLOWING FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULARS:

150/5370–2G	–	OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
150/5210–5D	–	PAINTING, MARKING AND LIGHTING OF VEHICLES USED ON AN AIRPORT
150/5200–18C	–	AIRPORT SAFETY SELF–INSPECTION
150/5340–1M	–	STANDARDS FOR AIRPORT MARKINGS

15. AFTER COMPLETION OF WORK, THE CONTRACTOR SHALL RE–STRIPE ALL/ANY EXISTING RUNWAY, TAXIWAY, APRON OR ROAD MARKINGS WHICH WERE TEMPORARILY REMOVED FOR CONSTRUCTION OR DAMAGED DURING CONSTRUCTION, MATCHING ORIGINAL CONDITION.

16. CONTRACTOR SHALL RELOCATE AND RESTORE AFTER COMPLETION OF CONSTRUCTION, ANY TAXIWAY CENTER LIGHTS, EDGE LIGHTS, OR GUIDANCE SIGNS THAT MAY EXIST WITHIN THE CONSTRUCTION AREA. IF REMOVED OR RELOCATED, CONTRACTOR SHALL PROVIDE "JUMPER CABLES" TO KEEP ELECTRICAL CIRCUITS IN OPERATION.

17. CONTRACTOR SHALL REMOVE ALL EQUIPMENT FROM OBJECT FREE AREAS DURING HOURS OF AIRCRAFT OPERATIONS.

18. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND DESIGNATED AIRPORT REPRESENTATIVES FOR THE ISSUANCE OF NOTAMS BEFORE CONSTRUCTION BEGINS. PRIOR TO THE END OF THE WORK SHIFT, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT, MATERIALS AND STOCK PILES FROM THE CONSTRUCTION AREA, AND SHALL SWEEP THE AREA FOR ALL LOOSE PARTICLES THAT MAY BE INGESTED BY JET ENGINES.

19. ALL EQUIPMENT, MATERIAL AND CONSTRUCTION PERSONNEL SHALL BE KEPT AT LEAST 250' FROM CENTERLINE OF ACTIVE RUNWAY, 65.5' FROM AN ACTIVE TAXIWAY AT ALL TIMES.

20. CONTRACTOR IS REQUIRED TO MONITOR RADIO COMMUNICATIONS AT ALL TIMES. CTAF (COMMON TRAFFIC ADVISORY FREQUENCY) & UNICOM FREQUENCY: 122.8 MHZ.

21. NO EQUIPMENT OR MATERIALS SHALL EXCEED A HEIGHT OF 25 FT WITHOUT PRIOR APPROVAL FROM ENGINEER.

22. THIS AIRPORT DOES NOT HAVE AN AIR TRAFFIC CONTROL TOWER.

SECURITY NOTES:

1. GENERAL – THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED IN THE CONTRACT MANUAL. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE FIELD REPRESENTATIVE, THE NAME OF THE "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.

2. CONSTRUCTION SECURITY COMMITTEE – A COMMITTEE SHALL BE ESTABLISHED CONCURRENT WITH THE LIFE OF THIS CONTRACT TO MONITOR AND COORDINATE SECURITY PROVISIONS, ADOPT NEW SECURITY PROVISIONS IF REQUIRED AND REVIEW AND APPROVE ALL MATTERS OF AIRPORT SECURITY RELATING TO THIS CONTRACT. MEETINGS SHALL BE SCHEDULED BY THE FIELD REPRESENTATIVE. COMMITTEE MEMBERSHIP SHALL INCLUDE THE CONTRACTOR SECURITY OFFICER, FIELD REPRESENTATIVE AND AIRPORT OPERATIONS.

3. CONTRACTOR PERSONNEL SECURITY ORIENTATION – THE CONTRACTOR SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS AND, FROM TIME TO TIME, OTHER SECURITY PROVISIONS ADOPTED BY THE CONSTRUCTION SECURITY COMMITTEE. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.

4. ACCESS TO THE SITE – CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD REPRESENTATIVE. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED PERSONNEL OR TRAFFIC ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE VARIOUS CONSTRUCTION AREAS ON THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS DEPOSITED ALONG ANY ACCESS ROAD AS A RESULT OF THE CONSTRUCTION TRAFFIC. DIRECTIONAL SIGNING AT THE ACCESS GATE AND ALONG THE DELIVERY ROUTE TO THE STORAGE AREA OR WORK SITE SHALL NOT BE PERMITTED.

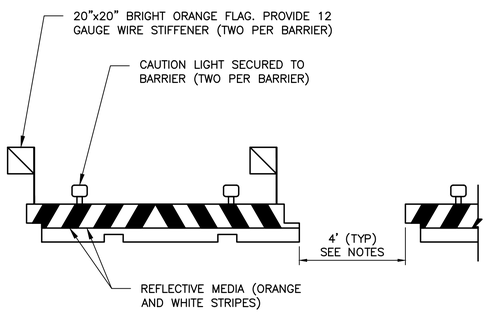
5. MATERIALS DELIVERY TO THE SITE – ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE SITE WILL USE THE ACCESS POINT AT THE CONTRACTOR'S STAGING AREA AS A DELIVERY ADDRESS AT THE AIRPORT. ALL ASSOCIATED COSTS SHALL BE INCIDENTAL TO VARIOUS OTHER BID ITEMS.

6. CONSTRUCTION AREA LIMITS – THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR AND APPROVED BY THE FIELD REPRESENTATIVE. THE CONTRACTOR SHALL ERECT AND MAINTAIN SUITABLE FENCING, SIGNAGE AND WARNING DEVICES VISIBLE FOR BOTH DAY/NIGHT USE TO DELINEATE THE PERIMETER OF ALL SUCH AREAS.

7. VEHICLE IDENTIFICATION – THE CONTRACTOR, THROUGH THE CONTRACTOR SECURITY OFFICER, SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTOR AND SUBCONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON THE SITE. THE CONTRACTOR SECURITY OFFICER WILL REQUIRE EACH VEHICLE TO DISPLAY A LARGE COMPANY SIGN (WITH NOT LESS THAN 6" LETTERING) ON BOTH SIDES OF THE VEHICLE. THE CONTRACTOR SHALL PROVIDE A CURRENT LISTING OF VEHICLES AND COMPANIES AUTHORIZED TO ENTER AND CONDUCT WORK ON THE AIRPORT TO THE FIELD REPRESENTATIVE. CONTRACTOR'S EMPLOYEE PERSONAL VEHICLES SHALL BE RESTRICTED TO THE CONTRACTOR'S STAGING AREA OR CONTRACTOR'S EMPLOYEE PARKING AREA AND ARE NOT ALLOWED ON THE AIRFIELD AT ANY TIME.

8. OPERATORS OF VEHICLES MUST POSSESS A VALID DRIVER'S LICENSE, FOR THE VEHICLE BEING OPERATED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EMPLOYEES DRIVING WITHIN THE AOA, AND SHALL LIMIT EMPLOYEE ACCESS TO RUNWAY AND TAXIWAY OBJECT FREE AREAS TO THOSE WHOSE FUNCTIONS ARE ABSOLUTELY NECESSARY. DRIVERS SHALL MONITOR PERRY–FOLEY AIRPORT UNICOM FREQUENCY AT ALL TIMES WHEN DRIVING WITHIN ANY RUNWAY OR TAXIWAY OBJECT FREE AREA, AND SHALL BE PREPARED TO LEAVE THE AREA IMMEDIATELY IF NECESSARY.

9. ALL ACCESS GATES SHALL REMAIN LOCKED OR MONITORED AT ALL TIMES. THE COST OF PROVIDING FLAGGER AND SECURITY GUARDS, IF NEEDED, SHALL BE INCIDENTAL AND INCLUDED IN THE VARIOUS CONTRACT ITEMS.



CONSTRUCTION BARRICADE DETAIL
N.T.S.

CONSTRUCTION BARRICADE NOTES:

1. FRANGIBLE, LOW PROFILE BARRICADES SHALL BE USED WHERE WORK IS ADJACENT TO ACTIVE AIRCRAFT RUNWAYS, TAXIWAYS, TAXILANES, OR APRONS, OR AS SHOWN ON THE PLANS. CAUTION LIGHTS TO BE HIGH INTENSITY RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. BARRICADE LIGHTS SHALL BE 360° OMNIDIRECTIONAL. ALL BARRICADE LIGHTING SHALL BE VERIFIED BY THE CONTRACTOR FOR PROPER OPERATION AT THE END OF EACH DAY OR NIGHT BEFORE CONTRACTOR CEASES OPERATION.

2. BARRICADES SHALL NOT BE PLACED INSIDE ANY ACTIVE RUNWAY SAFETY AREA, OR INSIDE ANY ACTIVE TAXIWAY OR TAXILANE OBJECT FREE AREA.

3. ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND SHALL BE REPAINTED WHEN DEEMED APPROPRIATE BY THE CONSTRUCTION MANAGER. THE CONDITIONS OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATING BY THE CONTRACTOR ON A DAILY BASIS BEFORE THE CONTRACTOR CEASES OPERATION FOR THE DAY.

4. ALL BARRICADES SHALL BE MOVED AT LEAST ONCE A WEEK AND THE CONTRACTOR SHALL SWEEP THE DEBRIS WHICH HAS ACCUMULATED AND REMOVE FROM THE SITE. THE BARRICADES SHALL THEN BE REPLACED AT THE APPROPRIATE LOCATION.

5. BARRICADES SHALL BE SPACED 4' MAXIMUM, END–TO–END, OR AS DIRECTED BY THE CONSTRUCTION MANAGER. AT LEAST ONE 15' GAP IN EACH LINE OF BARRICADES SHALL BE PROVIDED FOR EMERGENCY VEHICLE ACCESS.

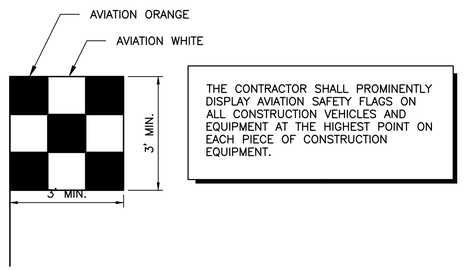
6. CAUTION LIGHTS SHALL BE RED IN COLOR AND FLASHING OR STEADY BURNING DURING HOURS OF DARKNESS.

7. ALL BARRICADES SHALL BE SECURED IN PLACE AGAINST MOVEMENT OR JET BLAST BY FILLING WITH WATER OR WEIGHING DOWN WITH (2) 50–LB SAND BAGS.

CONTRACTOR SHALL PLACE 2 TEMPORARY "TRUCKS ENTERING HIGHWAY" SIGNS – MIN. 300–FEET FROM INTERSECTIONS. SEE F.D.O.T. INDEX NO. 102–600 FOR INFORMATION

36" X 36"

TRUCKS ENTERING HIGHWAY SIGN
N.T.S.



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N.T.S.

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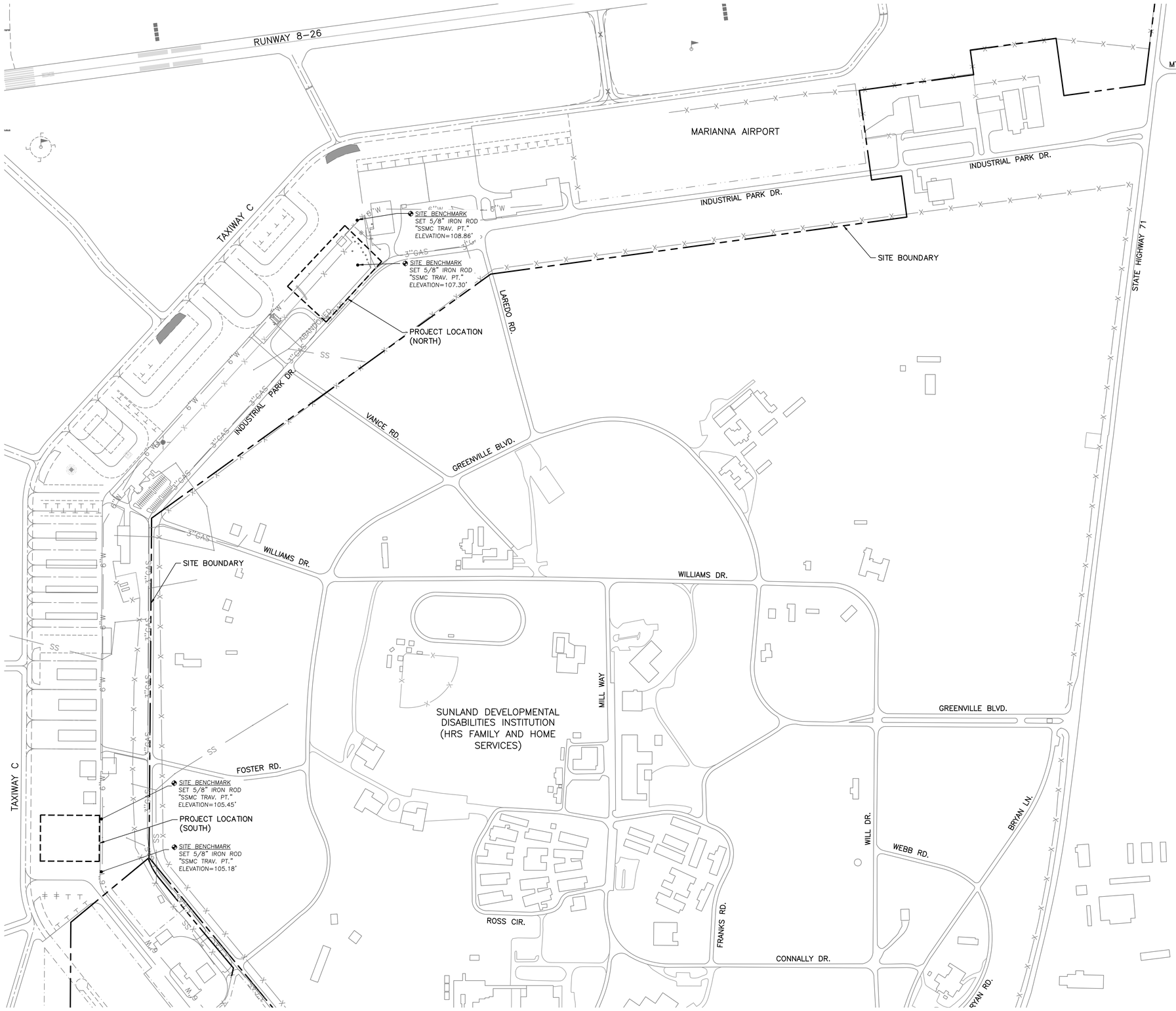

North

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GRAPHIC SCALE IN FEET

SURVEYOR'S REPORT:

1. UTILITY LOCATIONS IF SHOWN HEREON ARE BASED ON FIELD LOCATION OF MARKINGS BY UTILITY COMPANY REPRESENTATIVES, SURFACE FEATURES AND CONSTRUCTION PLANS FURNISHED TO THE SURVEYOR. ADDITIONAL SUB-SURFACE UTILITIES MAY EXIST THAT HAVE NOT BEEN FIELD LOCATED.
2. EASEMENTS OR RIGHTS OF WAY THAT APPEAR ON RECORDED PLANS OR THAT HAVE BEEN FURNISHED TO THE SURVEYOR BY OTHERS HAVE BEEN INCORPORATED INTO THIS DRAWING WITH APPROPRIATE NOTATION. OTHER EASEMENTS MAY BE DISCOVERED BY A SEARCH OF THE PUBLIC RECORDS.
3. MINIMUM HORIZONTAL ACCURACY FOR THIS SURVEY IS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE SET FORTH BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17 REQUIREMENTS OF FLORIDA ADMINISTRATION CODE. THE MAP AND MEASUREMENT METHODS USED FOR THIS SURVEY MEET OR EXCEED THIS REQUIREMENT. THE DIMENSIONS SHOWN HEREON ARE IN UNITED STATES STANDARD SURVEY FEET AND DECIMALS THEREOF.
4. THIS SURVEY DOES NOT DETERMINE OWNERSHIP OF THE LANDS SHOWN HEREON.
5. UNDERGROUND FOUNDATIONS HAVE NOT BEEN LOCATED.
6. SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OR THE ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, AND IF SHOWN HEREON IS IN COMPLIANCE WITH FLORIDA ADMINISTRATIVE CODE 5J-17.062 AND FLORIDA STATUTE 472.025.
7. FEATURES SHOWN BY SYMBOL AS INDICATED IN THE LEGEND ARE NOT TO SCALE.
8. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
9. VERTICAL INFORMATION SHOWN HEREON REFERS TO NATIONAL GEODETIC SURVEY (NGS) POINT WITH DESIGNATION MARIPORT AZ MK, PID # BE3960 AND A PUBLISHED ELEVATION OF 104.63 FEET NORTH AMERICAN DATUM OF 1988 (NAVD88)
10. HORIZONTAL POSITIONS FOR ALL FEATURES SHOWN ON THE MAP ARE RELATIVE TO NORTH AMERICAN DATUM OF 1983 (NAD83), 2007 ADJUSTMENT, STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE. CONTROL POINT(S) USED FOR THIS SURVEY ARE NATIONAL GEODETIC SURVEY (NGS) POINTS DESIGNATION MARIPORT AZ MK PID# BE3960 AND PID # BE3944; DISTANCES SHOWN ARE GRID DISTANCES.
11. THIS SURVEY WAS PERFORMED WITHOUT BENEFIT OF AN ABSTRACT, TITLE SEARCH, TITLE OPINION OR TITLE COMMITMENT. A TITLE SEARCH MAY REVEAL ADDITIONAL INFORMATION AFFECTING THE PARCEL AS SHOWN.
12. IMPROVEMENTS & TOPOGRAPHIC FEATURES SHOWN HEREON ARE LIMITED TO AREAS PER SPECIFIC INSTRUCTIONS OF THE CLIENT.

NOTICE OF LIABILITY:

THIS SURVEY IS CERTIFIED TO THOSE INDIVIDUALS SHOWN ON THE FACE THEREOF. ANY OTHER USE, BENEFIT OR RELIANCE BY ANY OTHER PARTY IS STRICTLY PROHIBITED AND RESTRICTED. SURVEYOR IS RESPONSIBLE ONLY TO THOSE CERTIFIED AND HEREBY DISCLAIMS ANY OTHER LIABILITY AND HEREBY RESTRICTS THE RIGHTS OF ANY OTHER INDIVIDUAL OR FIRM TO USE THIS SURVEY, WITHOUT EXPRESS WRITTEN CONSENT OF THE SURVEYOR.

TOPOGRAPHIC SURVEY PERFORMED BY:

SOUTHEASTERN SURVEYING AND MAPPING, INC.

DATED: 02/08/2023

CONTRACTOR RESPONSIBLE TO OBTAIN SIGNED AND SEALED SURVEY FROM OWNER AND VERIFY BENCHMARKS, CONTROL, AND CONSTRUCTION FIELD STAKES PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

SOUTHEASTERN SURVEYING AND MAPPING, INC.

1130 HIGHWAY 90

CHIPLEY, FLORIDA 32428

PHONE: (850) 638-0790

EMAIL: INFO@SOUTHEASTERNSURVEYING.COM

LEGEND

PROPERTY LINE

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
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OFFICE: (850) 678-0050
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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

PROJECT LAYOUT AND SURVEY CONTROL PLAN

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

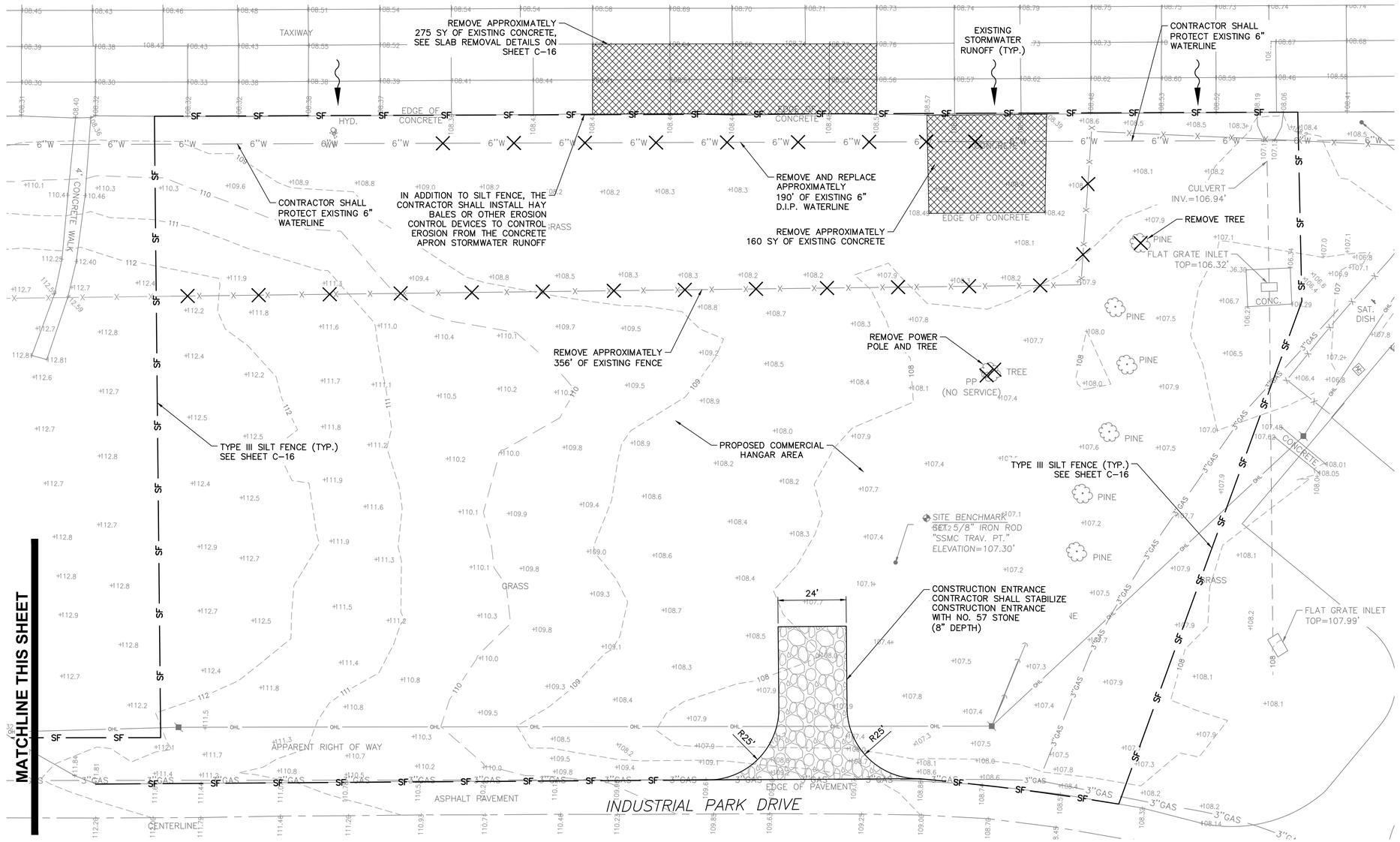
PREPARED FOR

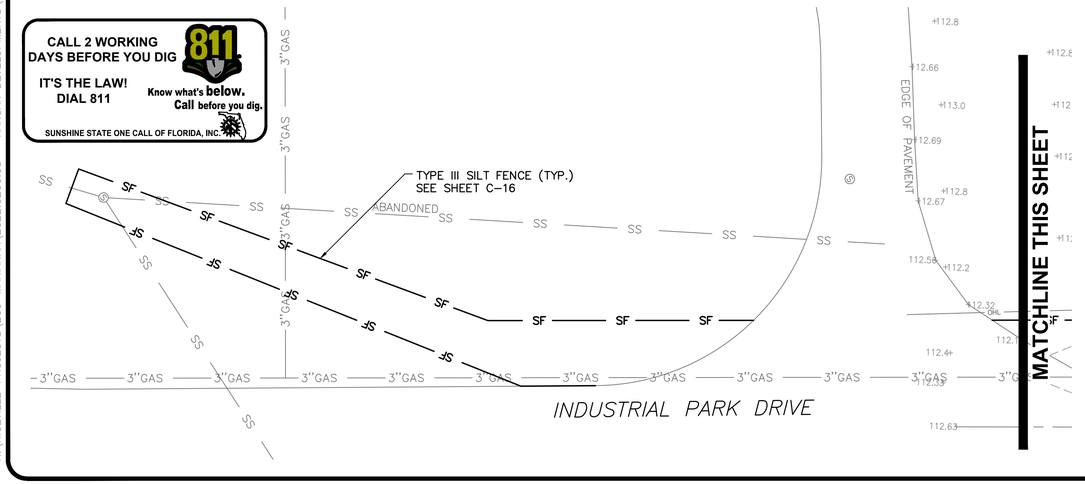
CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET

G-6





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North

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GRAPHIC SCALE IN FEET

EROSION CONTROL NOTES:

1. ALL SEDIMENT CONTROL MEASURES SHOWN OF THESE PLANS ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE BALANCE OF THE SITE.
2. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED AT NO ADDITIONAL COST TO THE OWNER.
3. ALL TEMPORARY EARTH BERMS AND DIVERSIONS ARE TO BE MACHINE COMPACTED AND SODDED FOR TEMPORARY VEGETATIVE COVER WITHIN 10 DAYS AFTER GRADING.
4. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY, ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
5. THE IN PLACE SEDIMENT CONTROL MEASURES WILL BE MAINTAINED ON A CONTINUING BASIS UNTIL THE SITE IS PERMANENTLY STABILIZED AND ALL PERMIT REQUIREMENTS ARE MET.
6. THE CONSTRUCTION OF SWALES SHALL BE PERFORMED PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS.
7. EXISTING AND PROPOSED INLET OPENINGS IN THE PROJECT SHALL BE COVERED WITH FILTER FABRIC AND SURROUNDED BY TYPE III SILT FENCE ALONG WITH HAYBALES.
8. THE CONTRACTOR SHALL MINIMIZE THE EXTENT OF EXPOSED EARTH AT ONE TIME DURING CONSTRUCTION AND UTILIZE WATERING TRUCKS TO WET THE EARTH DURING DRY MONTHS TO MINIMIZE EROSION DUE TO WIND.
9. UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS, AS A MINIMUM, SHALL BE SEEDED AND MULCHED AND COMPACTED EQUIVALENT TO THAT OF NATIVE SURROUNDING EARTH.
10. CONTRACTOR SHALL NOTIFY THE ENGINEER IF EROSION CONTROL ISSUES DEVELOP ONSITE.

GENERAL DEMOLITION NOTES:

1. THE LIMITS OF DEMOLITION SHOWN ON THE PLAN ARE APPROXIMATE. SEE GEOMETRY AND PAVING PLAN FOR EXACT LIMITS.
2. THE CONTRACTOR SHALL PROTECT THE EXISTING FEATURES TO REMAIN. ANY DAMAGE TO PROTECTED EXISTING FEATURES SHALL BE REPAIRED AS SOON AS POSSIBLE AND THE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL SAWCUT THE EDGES AT ALL PAVEMENT TIE-INS, LONGITUDINAL AND TRANSVERSE JOINTS.
4. THE TRANSPORT & DISPOSAL OF MATERIALS OFF-SITE SHALL BE INCIDENTAL TO THE ASSOCIATED PAY ITEMS (INCLUDING MILLINGS).
5. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE FLOW PATTERNS AT PRE-CONSTRUCTION LEVELS – WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN EXCAVATIONS, OR ON THE BASE AND SURFACE OF PAVEMENT SURFACES. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE FACILITIES SUCH AS PUMPS, PIPES AND OTHER NECESSARY FACILITIES TO PROTECT THE SITE AND MAINTAIN DRAINAGE SYSTEM CONVEYANCE CAPACITY AND FLOW PATTERNS. THE TEMPORARY DRAINAGE FACILITIES SHALL BE PROVIDED UNTIL THE END OF THE PROJECT AND SHALL BE INCIDENTAL TO MOBILIZATION PAY ITEM M-101-1.
6. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION, INCLUDING DEMOLITION OPERATIONS.
7. SEE SHEETS C-1 & C-16 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
8. CONTRACTOR SHALL PHASE FENCE CONSTRUCTION AND REMOVAL OF EXISTING FENCE TO ENSURE A CONTINUOUS SECURED AIRPORT PERIMETER. ANY OPENINGS SHALL BE CONTINUOUSLY MONITORED BY THE CONTRACTOR'S DESIGNATED FLAGPERSON. NO FENCE OPENINGS WILL BE PERMITTED WITHOUT A DESIGNATED FLAGPERSON. CONTRACTOR SHALL ENSURE NO UNAUTHORIZED ACCESS AT ANY TIME.
9. COSTS ASSOCIATED WITH FENCE PHASING AND SECURITY SHALL BE INCLUDED IN THE ITEMS OF WHICH IT IS A PART.

LEGEND

- AIR CONDITIONING UNIT
- SANITARY MANHOLE
- CLEANOUT
- FIRE HYDRANT
- GUY ANCHOR
- WATER SPIGOT
- IRON ROD
- MONITORING WELL
- UTILITY POLE
- PUMP
- SERVICE POLE
- TRAFFIC SIGN
- TREE
- WATER METER
- WATER VALVE
- 6"W — EXISTING WATER LINE
- 3"GAS — EXISTING GAS LINE
- SS — EXISTING SANITARY LINE
- OHL — OVERHEAD UTILITY LINE
- X — X — EXISTING FENCE
- TRAV.PT. — TRAVERSE POINT
- SSMC — SOUTHEASTERN SURVEYING & MAPPING CORPORATION
- PROPERTY BOUNDARY
- 110 — EXISTING CONTOUR
- EXISTING ROAD
- DEMO CONCRETE PAVEMENT
- TO BE REMOVED

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EXISTING CONDITIONS, EROSION CONTROL & DEMO PLAN

RELEASE FOR BID

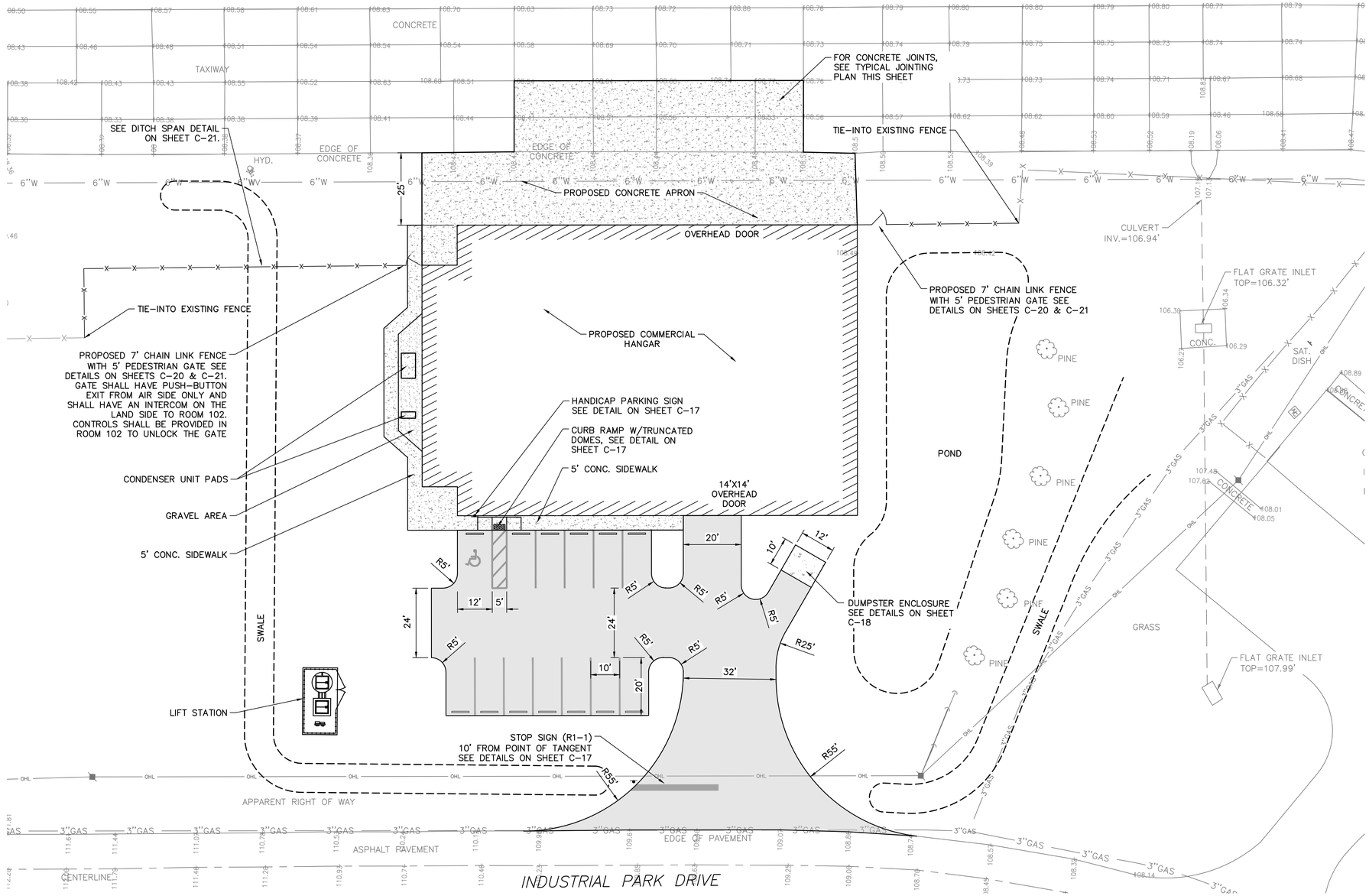
MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
C-1

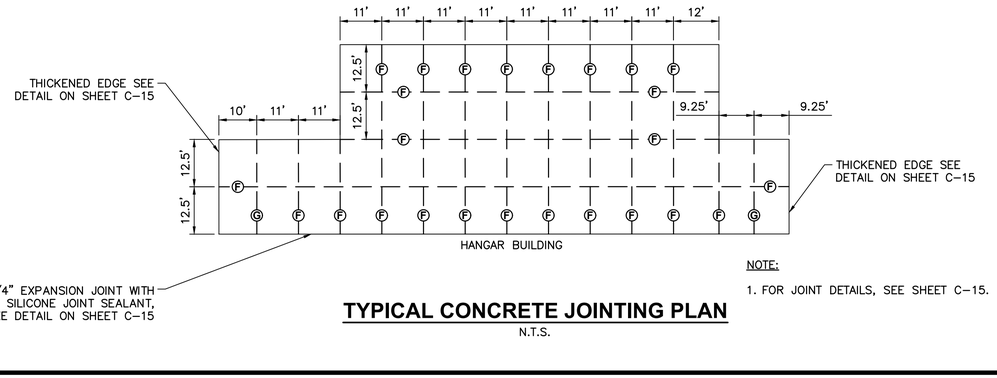


NOTES:

1. SEE SHEET C-4 FOR CONSTRUCTION SAFETY AND ACCESS PLAN.
2. SEE SHEET C-1 FOR LIMITS OF DEMOLITION.
3. SEE SHEET C-3 FOR GRADING PLAN AND STORM AND SANITARY INFORMATION.
4. SEE SHEET C-14 FOR PAVEMENT SECTION DETAILS.

SITE DATA TABLE:

PARCEL ID NOS.:	13-5N-10-0000-0010-0000
EXISTING LAND USE:	MUNICIPAL
PROPOSED USE:	MUNICIPAL
ZONING:	HIGH INTENSITY COMMERCIAL (C-2) (CITY)
NORTH:	HIGH INTENSITY COMMERCIAL (C-2) (CITY)
SOUTH:	GENERAL COMMERCIAL (COUNTY)
WEST:	GENERAL COMMERCIAL (COUNTY)
EAST:	GENERAL COMMERCIAL (COUNTY)
FUTURE LAND USE:	COMMERCIAL (CITY)
NORTH:	COMMERCIAL (CITY)
SOUTH:	COMMERCIAL (COUNTY)
WEST:	COMMERCIAL (COUNTY)
EAST:	COMMERCIAL (COUNTY)
SITE AREA.:	PARCEL=XX SF (XX ACRES)
IMPERVIOUS SURFACE AREA:	XX SF (XX ACRES) OR 0%
PERVIOUS SURFACE AREA:	XX SF (XX ACRES) OR 100%
UPLAND/WETLAND SUMMARY:	
TOTAL UPLAND AREA:	PARCEL=XX SF (XX ACRES)
TOTAL WETLAND AREA:	PARCEL=XX SF (XX ACRES)
TOTAL WETLAND BUFFER AREA:	PARCEL=XX SF (XX ACRES)
SETBACKS:	
FRONT: REQUIRED: XX'	PROVIDED: N/A
SIDES: N/A	
REAR: REQUIRED: XX'	PROVIDED: N/A



NOTE:

1. FOR JOINT DETAILS, SEE SHEET C-15.

TYPICAL CONCRETE JOINTING PLAN

N.T.S.

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LEGEND

- PROPERTY BOUNDARY
- EXISTING ROAD
- PROPOSED PAVEMENT
- PROPOSED FENCE

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SITE & GEOMETRY PLAN

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
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PROJECT NO:	2022.260.03
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SHEET
C-2

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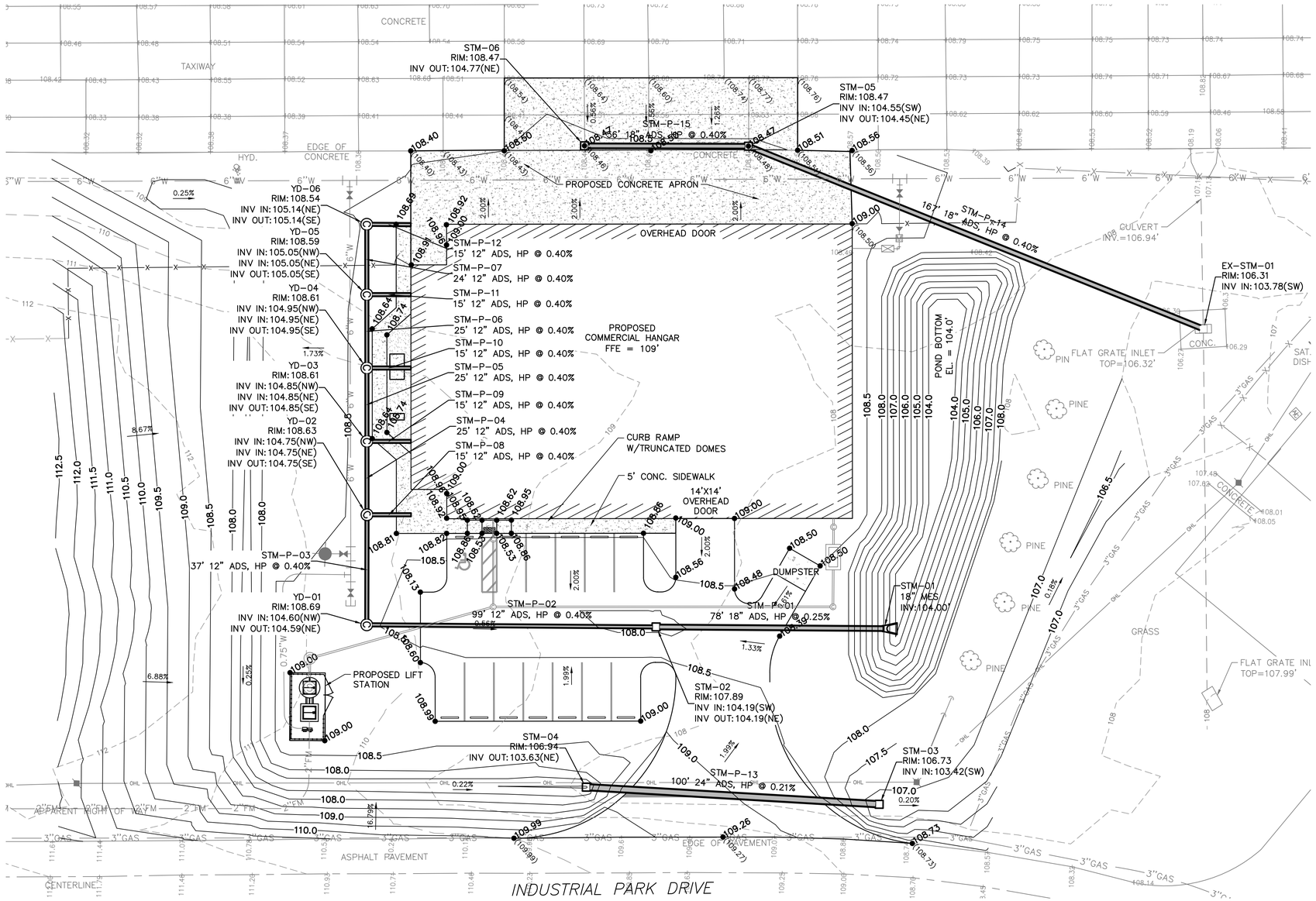

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GRAPHIC SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING ROAD
- PROPOSED PAVEMENT
- PROPOSED FENCE
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- PROPOSED STORM INLET
- PROPOSED STORM PIPE

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STORMWATER PIPE TABLE			
NAME	DESCRIPTION	LENGTH	SLOPE
STM-P-01	18" ADS, HP	77.59'	0.25%
STM-P-02	12" ADS, HP	98.53'	0.40%
STM-P-03	12" ADS, HP	37.49'	0.40%
STM-P-04	12" ADS, HP	25.00'	0.40%
STM-P-05	12" ADS, HP	25.00'	0.40%
STM-P-06	12" ADS, HP	25.00'	0.40%
STM-P-07	12" ADS, HP	23.96'	0.40%
STM-P-08	12" ADS, HP	15.00'	0.40%
STM-P-09	12" ADS, HP	15.00'	0.40%
STM-P-10	12" ADS, HP	15.00'	0.40%
STM-P-11	12" ADS, HP	15.00'	0.40%
STM-P-12	12" ADS, HP	15.00'	0.40%
STM-P-13	24" ADS, HP	99.92'	0.21%
STM-P-14	18" ADS, HP	166.95'	0.40%
STM-P-15	18" ADS, HP	55.81'	0.40%

GRADING AND DRAINAGE NOTES:

1. SIDE SLOPES OF ALL SWALES AND PONDS SHALL BE NO STEEPER THAN 4:1. (MAX).
2. CONTRACTOR SHALL INSTALL SILT FENCE PRIOR TO COMMENCING IN ANY CONSTRUCTION ACTIVITIES AND MAINTAIN SILT FENCE THROUGHOUT CONSTRUCTION.
3. CONTRACTOR SHALL NOTIFY THE ENGINEER IF EROSION CONTROL ISSUES DEVELOP ONSITE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL MEASURES ON SITE 24 HOURS A DAY THROUGHOUT CONSTRUCTION.
5. CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET PROTECTION THROUGHOUT CONSTRUCTION SEE SHEET C-16 FOR DETAIL.
6. ALL DISTURBED AREAS (INCLUDING RE-GRADED AREA) SHALL BE RETURNED TO ORIGINAL CONDITION.
7. ALL SUITABLE MATERIAL EXCAVATED SHALL BE USED IN THE FORMATION OF EMBANKMENTS OR PLACED IN STOCKPILES FOR FUTURE USE IN ACCORDANCE WITH THE PLANS AND AS DIRECTED BY THE ENGINEER. UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED OF BY THE CONTRACTOR AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
8. UNSUITABLE OR UNSTABLE MATERIALS ENCOUNTERED IN THE SUBGRADE PREPARATION SHALL BE UNDERCUT AND STABILIZED AS SPECIFIED IN THE PROJECT SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ALWAYS OBTAIN ENGINEER AUTHORIZATION PRIOR TO BEGINNING ANY UNDERCUT EXCAVATION OPERATIONS. UPON COMPLETION OF THE UNDERCUT AND ACCEPTANCE OF THE RESULTING STABLE SUBGRADE BY THE ENGINEER, THE CONTRACTOR SHALL SURVEY THE BOTTOM OF THE UNDERCUT AREA FOR THE PURPOSES OF ESTABLISHING PAYMENT QUANTITIES.
9. EXCAVATION LIKELY TO DISLOCATE, DAMAGE, OR IMPAIR THE STRENGTH OF OTHER STRUCTURES ALREADY IN PLACE SHALL BE DONE ONLY AFTER ADEQUATE PROTECTION HAS BEEN PROVIDED FOR THE IN-PLACE STRUCTURES.
10. CONTRACTOR SHALL GRADE ALL AREAS AS INDICATED OR DIRECTED BY OWNER. FILL SHALL BE BROUGHT TO FINISH GRADES AS SHOWN AND SHALL BE GRADED TO DRAIN WATER AWAY FROM STRUCTURES.
11. CONTRACTOR SHALL PROMOTE POSITIVE DRAINAGE TOWARDS INLETS, NO "BIRD BATHS" OR PONDING SHALL BE ACCEPTED.
12. UNPAVED AREAS SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE TO THE STORMWATER RETENTION AREA OR ASSOCIATED INLET.

STORMWATER STRUCTURE TABLE			
STRUCTURE NAME	STRUCTURE TYPE	DETAILS	NORTHING/EASTING
EX-STM-01	EXISTING DI	RIM = 106.31 STM-P-14 INV IN = 103.78	N: 669344.77 E: 1755489.0206
STM-01	18" MES	RIM = 105.63 STM-P-01 INV IN = 104.00	N: 669195.57 E: 1755490.5924
STM-02	FDOT TYPE 'F' DBI	RIM = 107.89 STM-P-02 INV IN = 104.19 STM-P-01 INV OUT = 104.19	N: 669138.83 E: 1755437.6763
STM-03	FDOT TYPE 'F' DBI, BUBBLER	RIM = 106.73 STM-P-13 INV IN = 103.42	N: 669153.91 E: 1755533.5916
STM-04	FDOT TYPE 'F' DBI, BUBBLER	RIM = 106.94 STM-P-13 INV OUT = 103.63	N: 669084.40 E: 1755461.8043
STM-05	FDOT TYPE 'F' DBI	RIM = 108.47 STM-P-15 INV IN = 104.55 STM-P-14 INV OUT = 104.45	N: 669272.80 E: 1755338.3747
STM-06	FDOT TYPE 'F' DBI	RIM = 108.47 STM-P-15 INV OUT = 104.77	N: 669231.80 E: 1755300.5121
YD-01	YARD DRAIN	RIM = 108.69 STM-P-03 INV IN = 104.60 STM-P-02 INV OUT = 104.59	N: 669066.77 E: 1755370.4794

STORMWATER STRUCTURE TABLE			
STRUCTURE NAME	STRUCTURE TYPE	DETAILS	NORTHING/EASTING
YD-02	YARD DRAIN	RIM = 108.63 STM-P-04 INV IN = 104.75 STM-P-08 INV IN = 104.75 STM-P-03 INV OUT = 104.75	N: 669092.19 E: 1755342.9312
YD-03	YARD DRAIN	RIM = 108.61 STM-P-05 INV IN = 104.85 STM-P-09 INV IN = 104.85 STM-P-04 INV OUT = 104.85	N: 669109.10 E: 1755324.5099
YD-04	YARD DRAIN	RIM = 108.61 STM-P-06 INV IN = 104.95 STM-P-10 INV IN = 104.95 STM-P-05 INV OUT = 104.95	N: 669126.00 E: 1755306.0885
YD-05	YARD DRAIN	RIM = 108.59 STM-P-07 INV IN = 105.05 STM-P-11 INV IN = 105.05 STM-P-06 INV OUT = 105.05	N: 669142.90 E: 1755287.6671
YD-06	YARD DRAIN	RIM = 108.54 STM-P-12 INV IN = 105.14 STM-P-07 INV OUT = 105.14	N: 669159.10 E: 1755270.0117

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GRADING AND DRAINAGE PLAN

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
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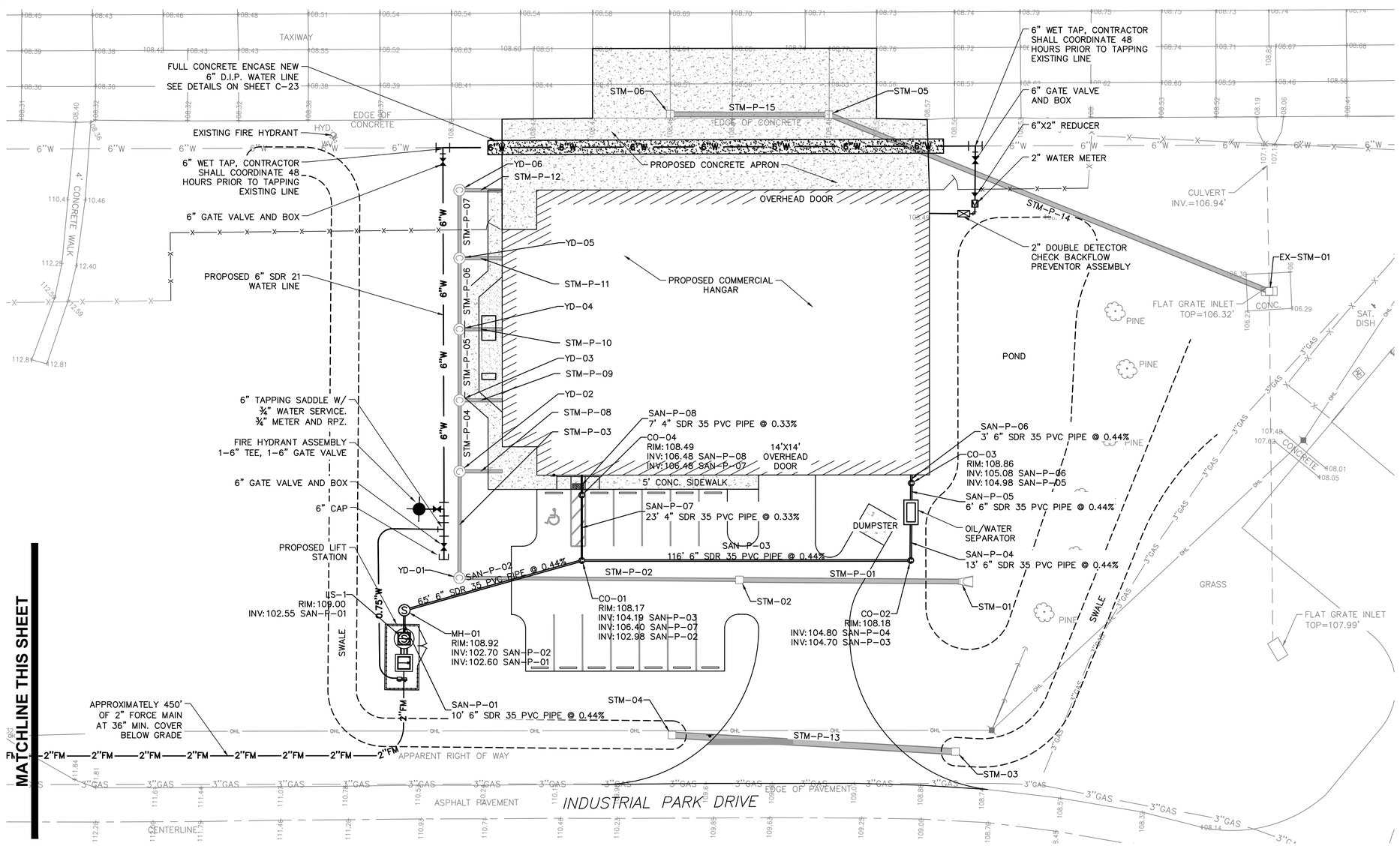
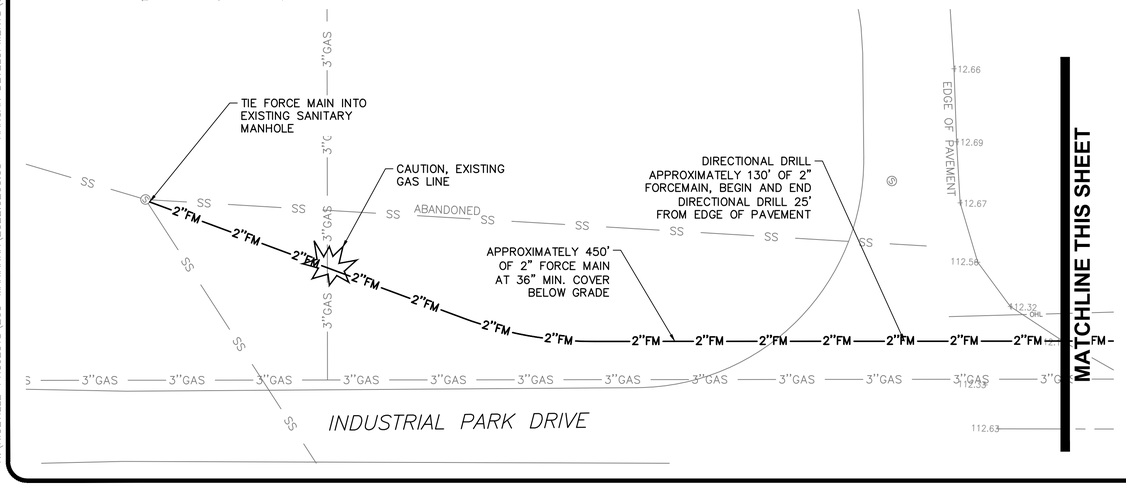
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET

C-3





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GRAPHIC SCALE IN FEET

UTILITY NOTES:

1. THE LOCATION OF UTILITIES IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. IF THE LOCATION OR ELEVATION IS SUBSTANTIALLY DIFFERENT FROM THAT SHOWN ON THE PLANS OR IS CONFLICTS EXIST, THE ENGINEER SHALL BE NOTIFIED.
2. THE CONTRACTOR SHALL HAVE ALL APPLICABLE PERMITS PRIOR TO BEGINNING CONSTRUCTION.
3. TAPS TO EXISTING UTILITIES SHALL BE COORDINATED WITH THE LOCAL UTILITY CO. ALL TAPS SHALL BE MADE IN AN EXPEDITIOUS MANNER TO MINIMIZE INTERRUPTION OF SERVICE.
4. ALL WATER SERVICE PIPING SHALL BE C900 UNLESS OTHERWISE NOTED OR REQUIRED. A MINIMUM COVER OF 36" SHALL BE PROVIDED OVER THE WATER MAINS. INSTALL TRACER WIRE ABOVE WATER MAINS, SERVICES AND VALVES.
5. ALL SEWER PIPING SHALL BE SDR 26 UNLESS OTHERWISE NOTED OR REQUIRED. A MINIMUM COVER OF 36" SHALL BE PROVIDED OVER THE SEWER MAINS.
6. COORDINATE WITH THE UTILITY PROVIDER FOR ALL INSPECTIONS. A FORTY EIGHT (48) HOUR NOTICE IS REQUIRED.
7. SEE UTILITY DETAIL SHEETS FOR MINIMUM HORIZONTAL & VERTICAL SEPARATION BETWEEN WATER, SEWER, AND STORMWATER.
8. ALL WATER MAINS SHALL BE ENCASED IN PVC SLEEVE WHEN CROSSING UNDER PAVEMENT, UNLESS OTHERWISE NOTED. EXTEND CASING A MINIMUM OF 10' BEYOND THE BACK OF CURB. DIAMETER OF SLEEVE SHALL BE 1.5 TIMES THE DIAMETER OF THE LINE. SLEEVES SHALL INCLUDE PIPE SPACERS TO EFFECTIVELY SEAT THE PIPE AND THE ENDS SHALL BE SEALED TO PREVENT MOISTURE AND SEDIMENT INTRUSION.
9. ALL WATER VALVES AND ASSOCIATED RISERS AND CONCRETE COLLARS SHALL BE INSTALLED OUTSIDE OF SIDEWALKS OR IN PAVEMENT AREAS.

SANITARY SEWER PIPE TABLE

PIPE NAME	SIZE	LENGTH	SLOPE
SAN-P-01	6" SDR 35 PVC PIPE	10'	0.44%
SAN-P-02	6" SDR 35 PVC PIPE	65'	0.44%
SAN-P-03	6" SDR 35 PVC PIPE	116'	0.44%
SAN-P-04	6" SDR 35 PVC PIPE	13'	0.44%
SAN-P-05	6" SDR 35 PVC PIPE	6'	0.44%
SAN-P-06	6" SDR 35 PVC PIPE	3'	0.44%
SAN-P-07	4" SDR 35 PVC PIPE	23'	0.33%
SAN-P-08	4" SDR 35 PVC PIPE	7'	0.33%

SANITARY SEWER STRUCTURE TABLE

STRUCTURE NAME:	STRUCTURE TYPE:	DETAILS:	NORTHING:	EASTING:
CO-01	SANITARY CLEANOUT	RIM = 108.17 INV IN = 104.19 INV IN = 106.40 INV OUT = 102.98	669102.60	1755395.13
CO-02	SANITARY CLEANOUT	RIM = 108.18 INV IN = 104.80 INV OUT = 104.70	669187.84	1755473.41
CO-03	SANITARY CLEANOUT	RIM = 108.86 INV IN = 105.08 INV OUT = 104.98	669206.39	1755453.51
CO-04	SANITARY CLEANOUT	RIM = 108.49 INV IN = 106.48 INV OUT = 106.48	669118.18	1755378.14
LS-1	LIFT STATION	RIM = 109.00 INV IN = 102.55	669037.95	1755373.08
MH-01	STANDARD SANITARY MANHOLE	RIM = 108.92 INV IN = 102.70 INV OUT = 102.60	669044.78	1755365.78

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LEGEND

- PROPERTY BOUNDARY
- EXISTING ROAD
- PROPOSED PAVEMENT
- PROPOSED FENCE
- 2"FM — PROPOSED FORCE MAIN
- 6"W — PROPOSED WATER
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED CLEANOUT

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UTILITY PLAN

RELEASE FOR BID

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SHEET
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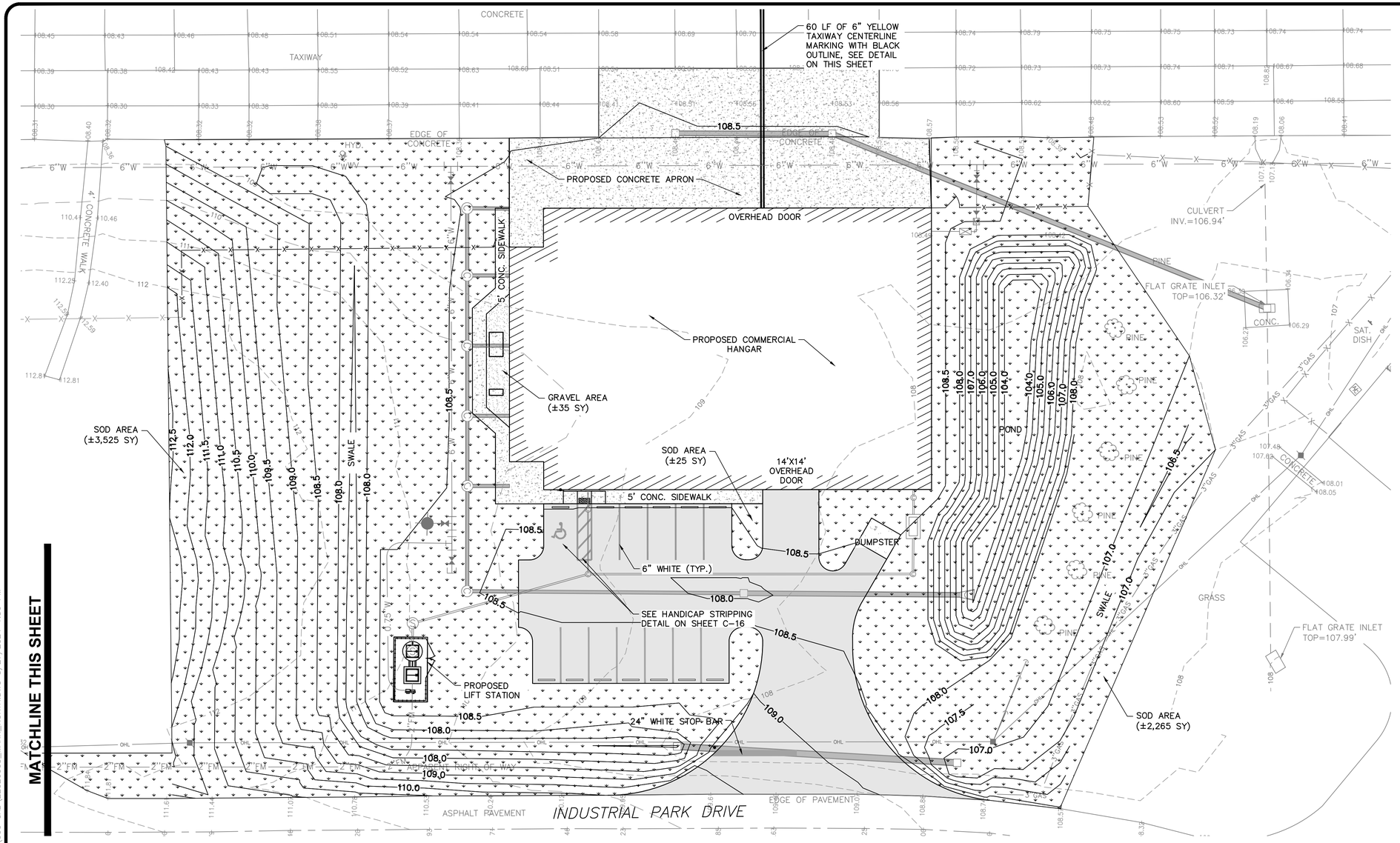

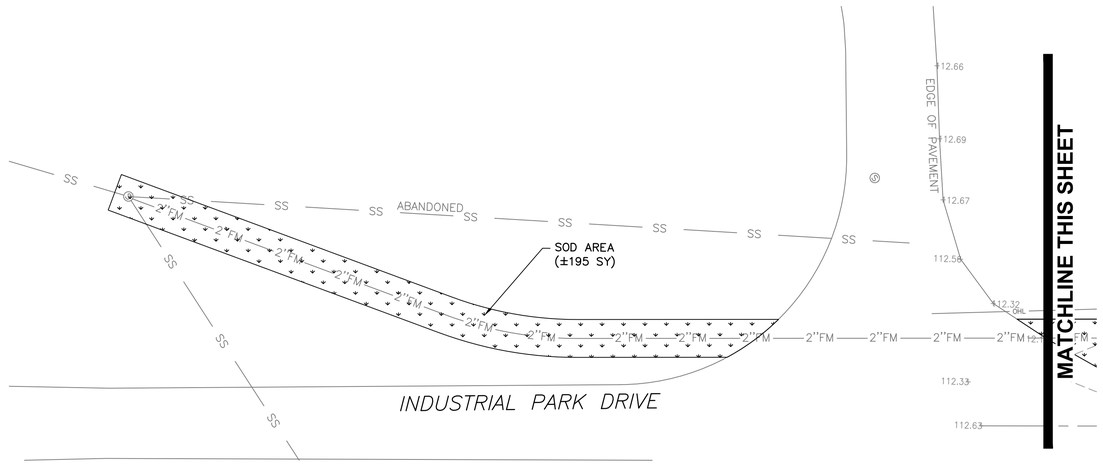

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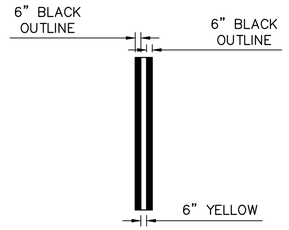
GRAPHIC SCALE IN FEET

GENERAL NOTES:

1. SOD SHALL BE CERTIFIED TO BE FREE OF MILLET SEED AND NOXIOUS WEEDS BY THE FLORIDA DEPARTMENT OF AGRICULTURE, DIVISION OF PLANT INDUSTRY.
2. ALL DISTURBED AREAS SHALL BE SODDED. IF AREAS TO BE SODDED ARE OUTSIDE OF THE LIMITS SHOWN ON THIS SHEET, THIS SODDING SHALL BE AT THE CONTRACTORS EXPENSE.
3. SOD FOR RESTORATION PURPOSES TO BE OF SAME SPECIES AND TYPE.
4. CONTRACTOR IS RESPONSIBLE FOR MINIMIZING AND REPAIRING EROSION DURING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR PROTECTING NEW SOD FROM EROSION UNTIL THE SOD IS FULLY ESTABLISHED.
5. CONTRACTOR SHALL WATER AND MOW SOD REGULARLY TO ENSURE SOD BECOMES ESTABLISHED. PAYMENT FOR SOD SHALL NOT BE PROVIDED UNTIL A HEALTHY STAND OF SOD IS ESTABLISHED.



TAXIWAY CENTERLINE STRIPE MARKING DETAIL

N.T.S.

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

LEGEND

- PROPERTY BOUNDARY
- 110 EXISTING CONTOUR
- 110 PROPOSED CONTOUR
- EXISTING ROAD
- PROPOSED PAVEMENT
- PROPOSED FENCE
- LIMITS OF SOD
- LIMITS OF GRAVEL

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

MARKING & SOD PLAN

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

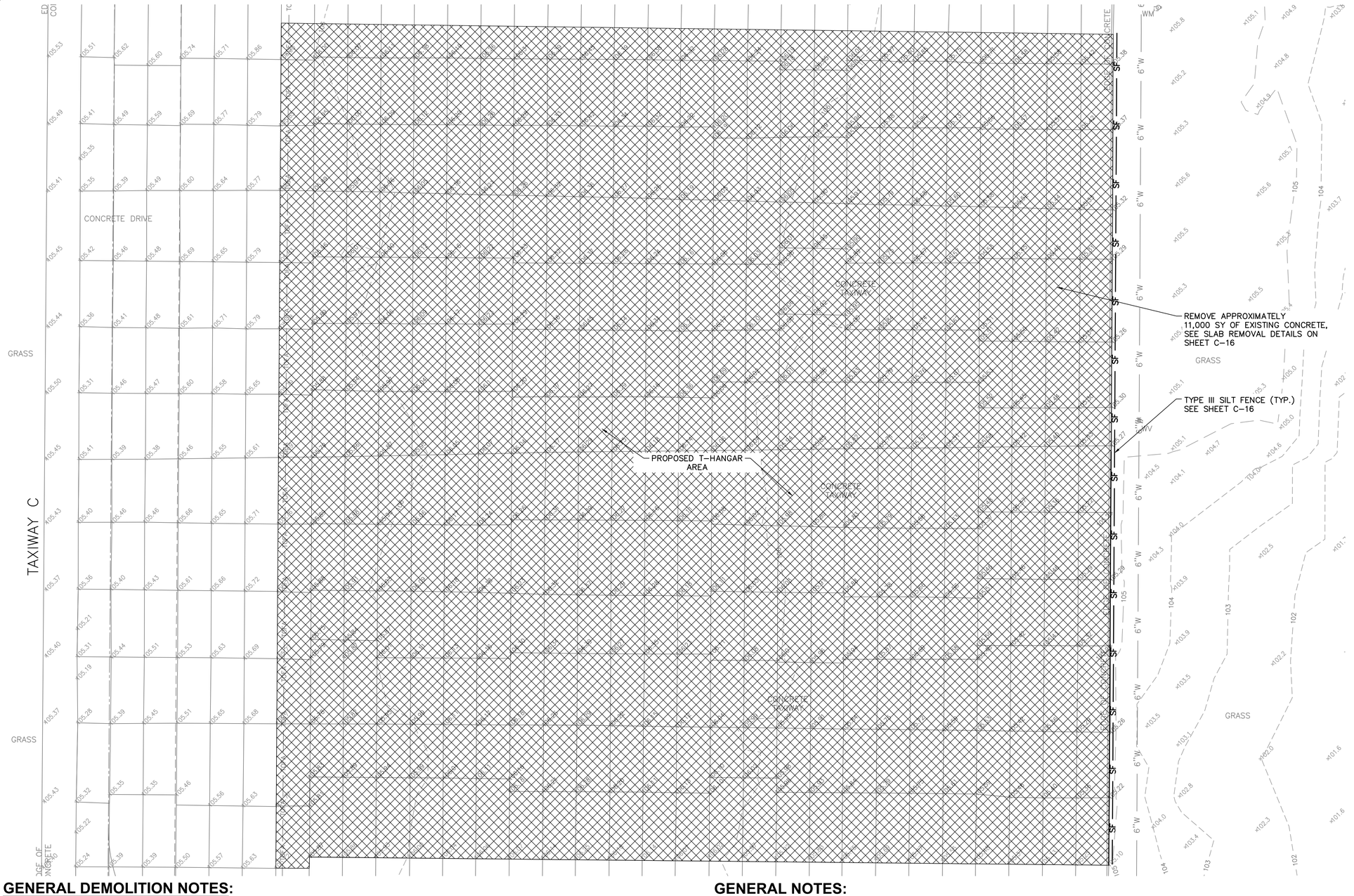
PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET C-5

N:\NICEVILLE_PROJECTS\260 - MARIANNA\2022.0260.03 - HANGAR DEVELOPMENTS\000 CAD\22026003_MARK_NORTH.DWG 3/27/2024 1:36 PM



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LEGEND

- AIR CONDITIONING UNIT
- SANITARY MANHOLE
- CLEANOUT
- FIRE HYDRANT
- GUY ANCHOR
- WATER SPIGOT
- IRON ROD
- MONITORING WELL
- UTILITY POLE
- PUMP
- SERVICE POLE
- TRAFFIC SIGN
- TREE
- WATER METER
- WATER VALVE
- 6"W — EXISTING WATER LINE
- 3"GAS — EXISTING GAS LINE
- EXISTING SANITARY LINE
- OHL — OVERHEAD UTILITY LINE
- X — X — EXISTING FENCE
- TRAV.PT. — TRAVERSE POINT
- SSMC — SOUTHEASTERN SURVEYING & MAPPING CORPORATION
- PROPERTY BOUNDARY
- 110 — EXISTING CONTOUR
- EXISTING ROAD
- SF — TYPE III SILT FENCE
- DEMO CONCRETE PAVEMENT
- TO BE REMOVED

GENERAL DEMOLITION NOTES:

1. THE LIMITS OF DEMOLITION SHOWN ON THE PLAN ARE APPROXIMATE. SEE GEOMETRY AND PAVING PLAN FOR EXACT LIMITS.
2. THE CONTRACTOR SHALL PROTECT THE EXISTING FEATURES TO REMAIN. ANY DAMAGE TO PROTECTED EXISTING FEATURES SHALL BE REPAIRED AS SOON AS POSSIBLE AND THE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL SAWCUT THE EDGES AT ALL PAVEMENT TIE-INS, LONGITUDINAL AND TRANSVERSE JOINTS.
4. THE TRANSPORT & DISPOSAL OF MATERIALS OFF-SITE SHALL BE INCIDENTAL TO THE ASSOCIATED PAY ITEMS (INCLUDING MILLINGS).
5. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE FLOW PATTERNS AT PRE-CONSTRUCTION LEVELS – WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN EXCAVATIONS, OR ON THE BASE AND SURFACE OF PAVEMENT SURFACES. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE FACILITIES SUCH AS PUMPS, PIPES AND OTHER NECESSARY FACILITIES TO PROTECT THE SITE AND MAINTAIN DRAINAGE SYSTEM CONVEYANCE CAPACITY AND FLOW PATTERNS. THE TEMPORARY DRAINAGE FACILITIES SHALL BE PROVIDED UNTIL THE END OF THE PROJECT AND SHALL BE INCIDENTAL TO MOBILIZATION PAY ITEM M-101-1.
6. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION, INCLUDING DEMOLITION OPERATIONS.
7. SEE SHEETS C-1 & C-16 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
8. CONTRACTOR SHALL PHASE FENCE CONSTRUCTION AND REMOVAL OF EXISTING FENCE TO ENSURE A CONTINUOUS SECURED AIRPORT PERIMETER. ANY OPENINGS SHALL BE CONTINUOUSLY MONITORED BY THE CONTRACTOR'S DESIGNATED FLAGPERSON. NO FENCE OPENINGS WILL BE PERMITTED WITHOUT A DESIGNATED FLAGPERSON. CONTRACTOR SHALL ENSURE NO UNAUTHORIZED ACCESS AT ANY TIME.
9. COSTS ASSOCIATED WITH FENCE PHASING AND SECURITY SHALL BE INCLUDED IN THE ITEMS OF WHICH IT IS A PART.

GENERAL NOTES:

1. ALL SEDIMENT CONTROL MEASURES SHOWN OF THESE PLANS ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE BALANCE OF THE SITE.
2. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED AT NO ADDITIONAL COST TO THE OWNER.
3. ALL TEMPORARY EARTH BERMS AND DIVERSIONS ARE TO BE MACHINE COMPACTED AND SODDED FOR TEMPORARY VEGETATIVE COVER WITHIN 10 DAYS AFTER GRADING.
4. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY, ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
5. THE IN PLACE SEDIMENT CONTROL MEASURES WILL BE MAINTAINED ON A CONTINUING BASIS UNTIL THE SITE IS PERMANENTLY STABILIZED AND ALL PERMIT REQUIREMENTS ARE MET.
6. THE CONSTRUCTION OF SWALES SHALL BE PERFORMED PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS.
7. EXISTING AND PROPOSED INLET OPENINGS IN THE PROJECT SHALL BE COVERED WITH FILTER FABRIC AND SURROUNDED BY TYPE III SILT FENCE ALONG WITH HAYBALES.
8. THE CONTRACTOR SHALL MINIMIZE THE EXTENT OF EXPOSED EARTH AT ONE TIME DURING CONSTRUCTION AND UTILIZE WATERING TRUCKS TO WET THE EARTH DURING DRY MONTHS TO MINIMIZE EROSION DUE TO WIND.
9. UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS, AS A MINIMUM, SHALL BE SEEDED AND MULCHED AND COMPACTED EQUIVALENT TO THAT OF NATIVE SURROUNDING EARTH.
10. CONTRACTOR SHALL NOTIFY THE ENGINEER IF EROSION CONTROL ISSUES DEVELOP ONSITE.

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

EXISTING CONDITIONS, EROSION CONTROL & DEMO PLAN (T-HANGARS)

RELEASE FOR BID

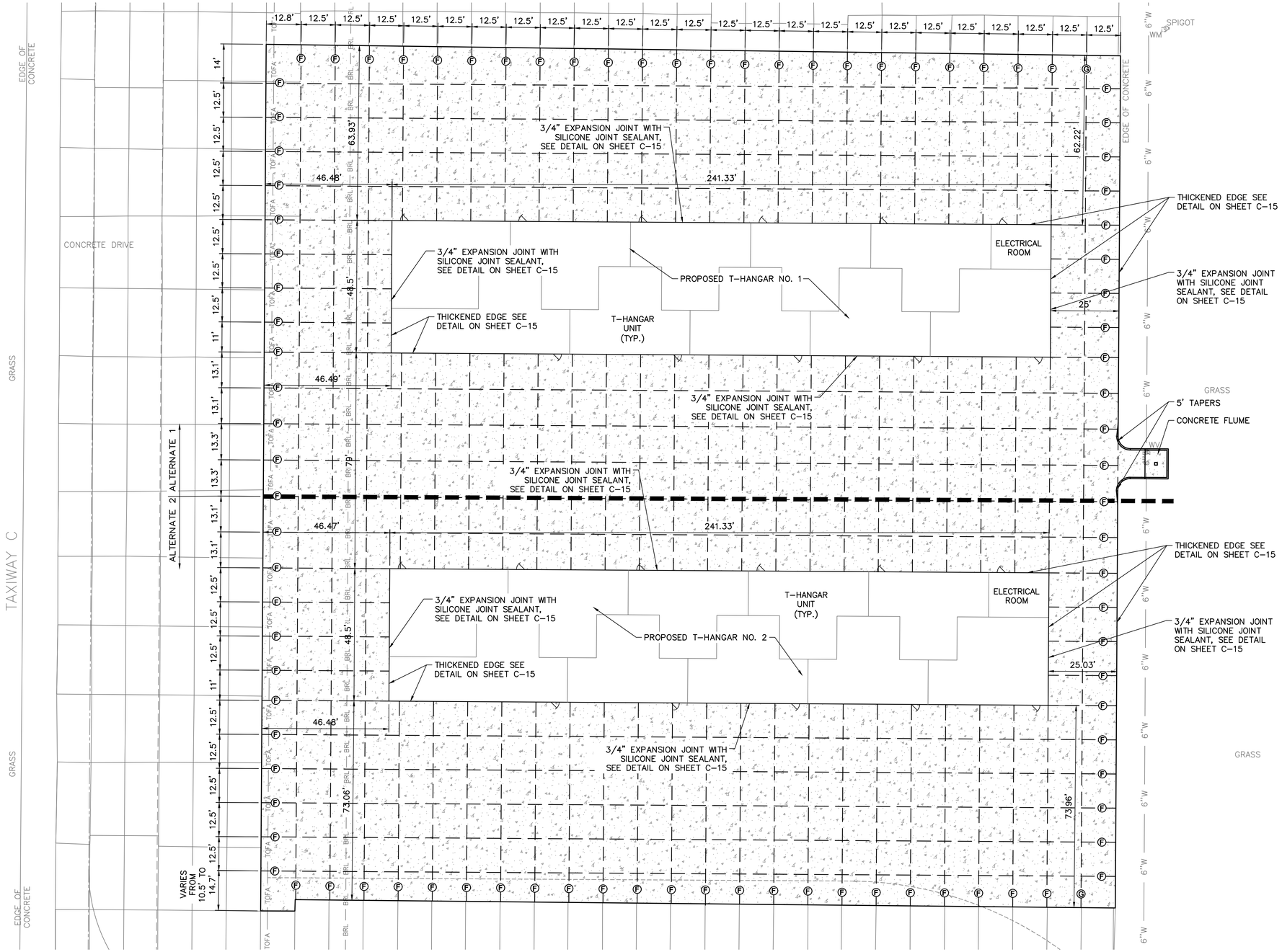
MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
C-6



NOTES:

1. SEE SHEET C-4 FOR CONSTRUCTION SAFETY AND ACCESS PLAN.
2. SEE SHEET C-1 FOR LIMITS OF DEMOLITION.
3. SEE SHEET C-3 FOR GRADING PLAN AND STORM AND SANITARY INFORMATION.
4. SEE SHEET C-12 FOR PAVEMENT SECTION DETAILS.

North

0 10 20 40

GRAPHIC SCALE IN FEET

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LEGEND

- PROPERTY BOUNDARY
- EXISTING CONCRETE
- PROPOSED CONCRETE

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

T-HANGAR SITE & GEMOETRY PLAN

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
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SHEET

C-7

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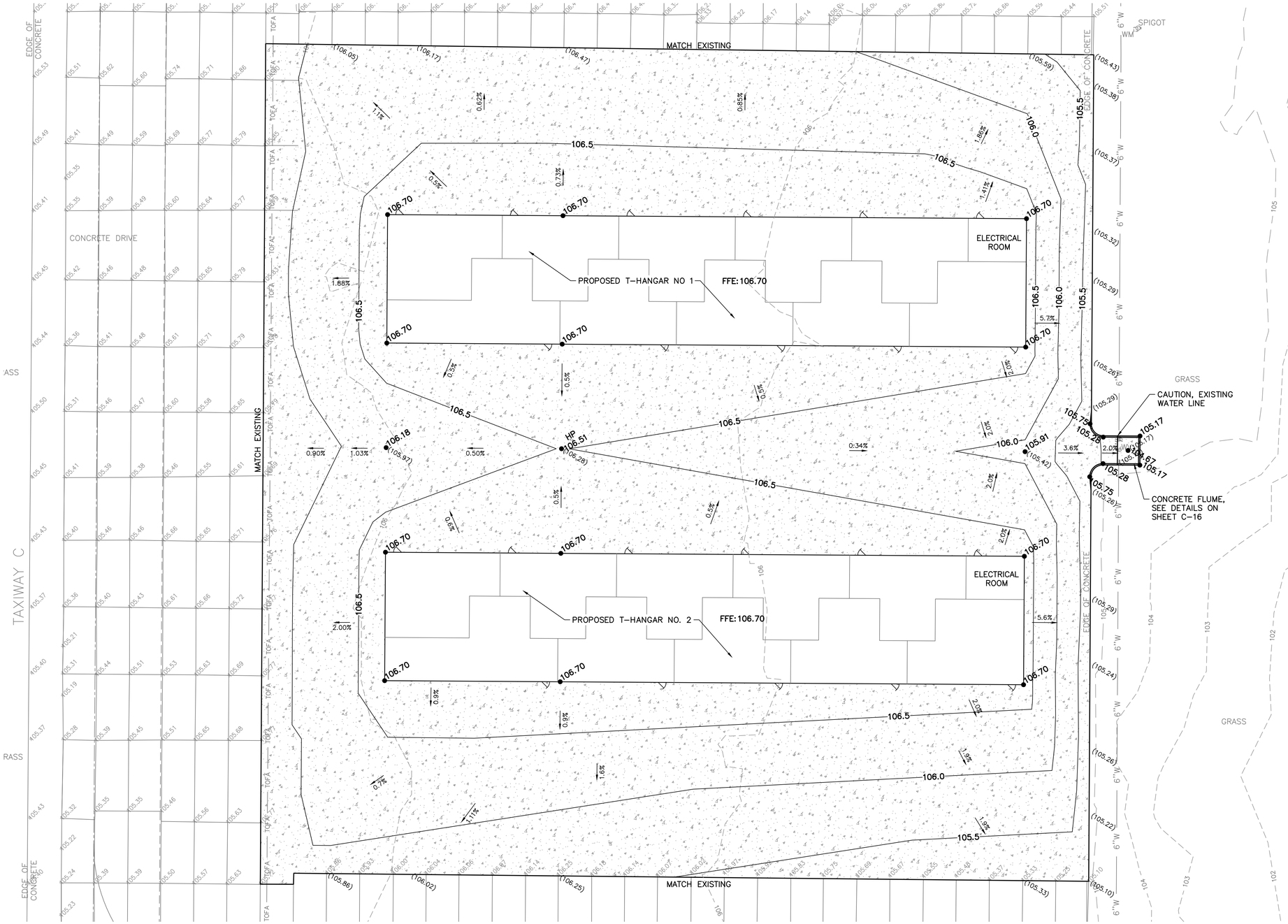

GRADING AND DRAINAGE NOTES:

1. SIDE SLOPES OF ALL SWALES AND PONDS SHALL BE NO STEEPER THAN 4:1. (MAX).
2. CONTRACTOR SHALL INSTALL SILT FENCE PRIOR TO COMMENCING IN ANY CONSTRUCTION ACTIVITIES AND MAINTAIN SILT FENCE THROUGHOUT CONSTRUCTION.
3. CONTRACTOR SHALL NOTIFY THE ENGINEER IF EROSION CONTROL ISSUES DEVELOP ONSITE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL MEASURES ON SITE 24 HOURS A DAY THROUGHOUT CONSTRUCTION.
5. CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET PROTECTION THROUGHOUT CONSTRUCTION SEE SHEET C-16 FOR DETAIL.
6. ALL DISTURBED AREAS (INCLUDING RE-GRADED AREA) SHALL BE RETURNED TO ORIGINAL CONDITION.
7. ALL SUITABLE MATERIAL EXCAVATED SHALL BE USED IN THE FORMATION OF EMBANKMENTS OR PLACED IN STOCKPILES FOR FUTURE USE IN ACCORDANCE WITH THE PLANS AND AS DIRECTED BY THE ENGINEER. UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED OF BY THE CONTRACTOR AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
8. UNSUITABLE OR UNSTABLE MATERIALS ENCOUNTERED IN THE SUBGRADE PREPARATION SHALL BE UNDERCUT AND STABILIZED AS SPECIFIED IN THE PROJECT SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ALWAYS OBTAIN ENGINEER AUTHORIZATION PRIOR TO BEGINNING ANY UNDERCUT EXCAVATION OPERATIONS. UPON COMPLETION OF THE UNDERCUT AND ACCEPTANCE OF THE RESULTING STABLE SUBGRADE BY THE ENGINEER, THE CONTRACTOR SHALL SURVEY THE BOTTOM OF THE UNDERCUT AREA FOR THE PURPOSES OF ESTABLISHING PAYMENT QUANTITIES.
9. EXCAVATION LIKELY TO DISLOCATE, DAMAGE, OR IMPAIR THE STRENGTH OF OTHER STRUCTURES ALREADY IN PLACE SHALL BE DONE ONLY AFTER ADEQUATE PROTECTION HAS BEEN PROVIDED FOR THE IN-PLACE STRUCTURES.
10. CONTRACTOR SHALL GRADE ALL AREAS AS INDICATED OR DIRECTED BY OWNER. FILL SHALL BE BROUGHT TO FINISH GRADES AS SHOWN AND SHALL BE GRADED TO DRAIN WATER AWAY FROM STRUCTURES.
11. CONTRACTOR SHALL PROMOTE POSITIVE DRAINAGE TOWARDS INLETS, NO "BIRD BATHS" OR PONDING SHALL BE ACCEPTED.
12. UNPAVED AREAS SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE TO THE STORMWATER RETENTION AREA OR ASSOCIATED INLET.

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LEGEND

— — — —	PROPERTY BOUNDARY
- - -110- - -	EXISTING CONTOUR
——110——	PROPOSED CONTOUR
	EXISTING CONCRETE
	PROPOSED CONCRETE
● 106	PROPOSED SPOT ELEVATION
× (105.22)	EXISTING SPOT ELEVATION

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

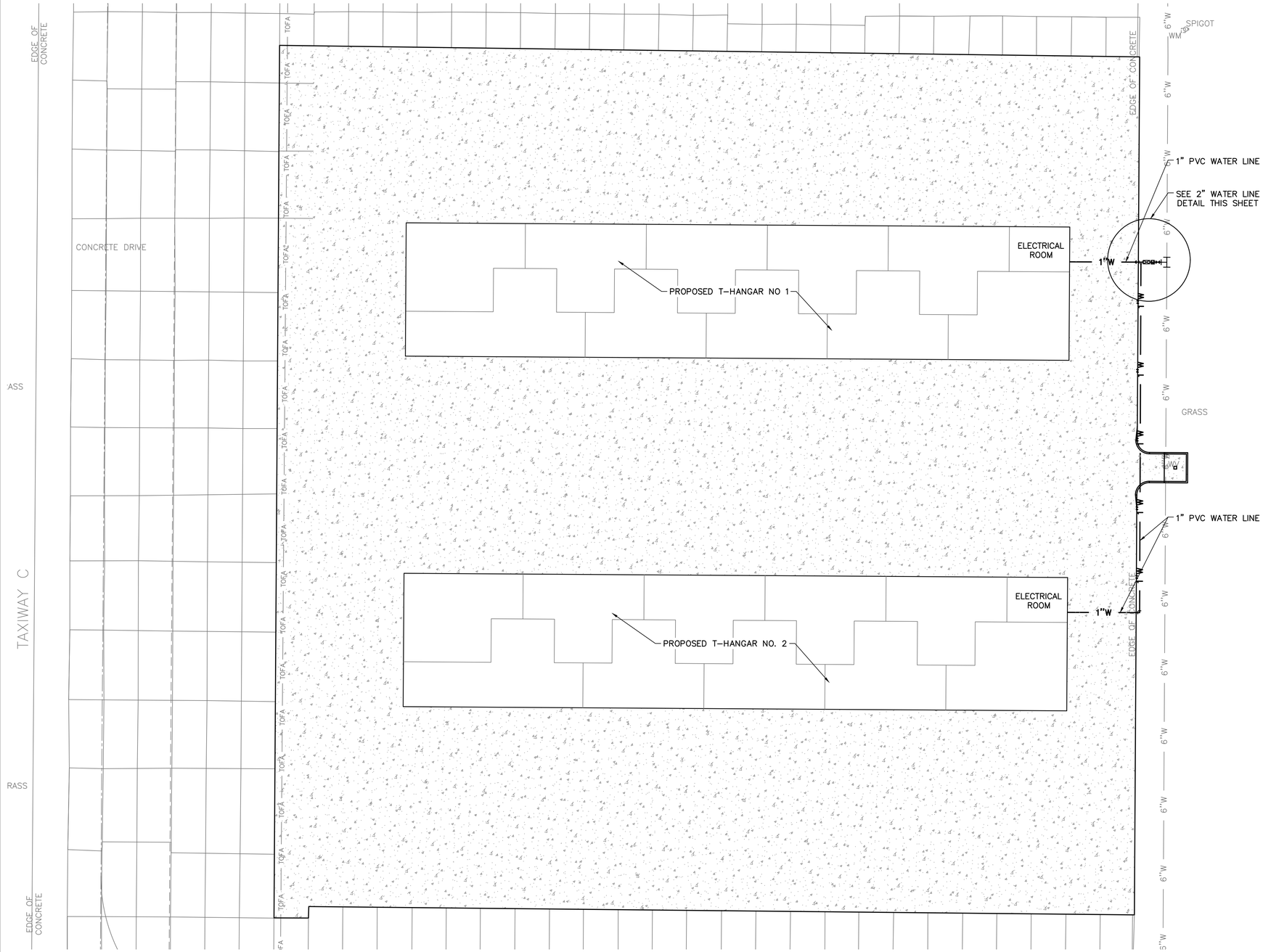
T-HANGAR GRADING AND DRAINAGE PLAN

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
C-8



North

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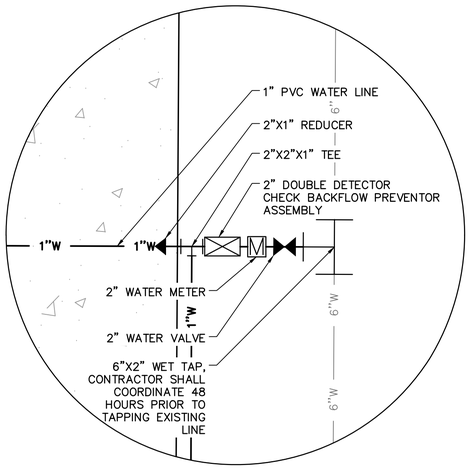
GRAPHIC SCALE IN FEET

UTILITY NOTES:

1. THE LOCATION OF UTILITIES IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. IF THE LOCATION OR ELEVATION IS SUBSTANTIALLY DIFFERENT FROM THAT SHOWN ON THE PLANS OR IS CONFLICTS EXIST, THE ENGINEER SHALL BE NOTIFIED.
2. THE CONTRACTOR SHALL HAVE ALL APPLICABLE PERMITS PRIOR TO BEGINNING CONSTRUCTION.
3. TAPS TO EXISTING UTILITIES SHALL BE COORDINATED WITH THE LOCAL UTILITY CO. ALL TAPS SHALL BE MADE IN AN EXPEDITIOUS MANNER TO MINIMIZE INTERRUPTION OF SERVICE.
4. ALL WATER SERVICE PIPING SHALL BE C900 UNLESS OTHERWISE NOTED OR REQUIRED. A MINIMUM COVER OF 36" SHALL BE PROVIDED OVER THE WATER MAINS. INSTALL TRACER WIRE ABOVE WATER MAINS, SERVICES AND VALVES.
5. ALL SEWER PIPING SHALL BE SDR 26 UNLESS OTHERWISE NOTED OR REQUIRED. A MINIMUM COVER OF 36" SHALL BE PROVIDED OVER THE SEWER MAINS.
6. COORDINATE WITH THE UTILITY PROVIDER FOR ALL INSPECTIONS. A FORTY EIGHT (48) HOUR NOTICE IS REQUIRED.
7. SEE UTILITY DETAIL SHEETS FOR MINIMUM HORIZONTAL & VERTICAL SEPARATION BETWEEN WATER, SEWER, AND STORMWATER.
8. ALL WATER MAINS SHALL BE ENCASED IN PVC SLEEVE WHEN CROSSING UNDER PAVEMENT, UNLESS OTHERWISE NOTED. EXTEND CASING A MINIMUM OF 10' BEYOND THE BACK OF CURB. DIAMETER OF SLEEVE SHALL BE 1.5 TIMES THE DIAMETER OF THE LINE. SLEEVES SHALL INCLUDE PIPE SPACERS TO EFFECTIVELY SEAT THE PIPE AND THE ENDS SHALL BE SEALED TO PREVENT MOISTURE AND SEDIMENT INTRUSION.
9. ALL WATER VALVES AND ASSOCIATED RISERS AND CONCRETE COLLARS SHALL BE INSTALLED OUTSIDE OF SIDEWALKS OR IN PAVEMENT AREAS.



2" WATER LINE DETAIL

N.T.S.

LEGEND

PROPERTY BOUNDARY	
110	EXISTING CONTOUR
110	PROPOSED CONTOUR
	EXISTING ROAD
	PROPOSED PAVEMENT
x x	PROPOSED FENCE
6"W	PROPOSED WATER

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T-HANGAR UTILITY PLAN

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

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DRAWN BY:	M.A.B.
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APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET

C-9

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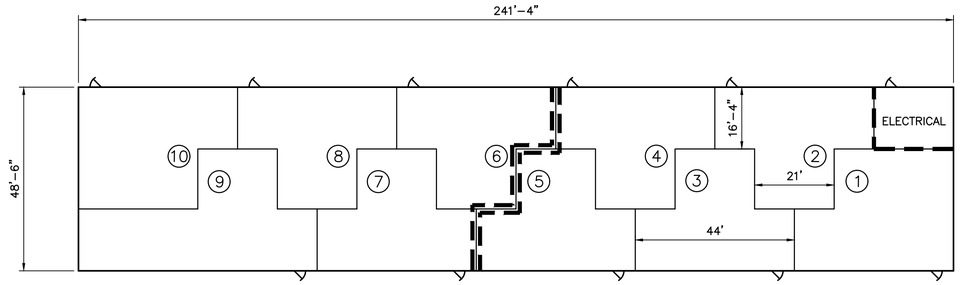

ADDITIVE ALTERNATE 1 AND 2

N.T.S.

MINIMUM HANGAR DIMENSIONS		
HANGARS	MINIMUM CLEAR DOOR WIDTH	MINIMUM CLEAR DOOR HEIGHT
T–HANGARS (UNIT #1–10)	41'–6"	12'–0"

LEGEND

- 10' GALVALUME PARTITION TOPPED W/ CHAIN LINK FENCE OR APPROVED EQUAL
- 1–HOUR RATED FIRE WALL CURB TO ROOF
- 4–HOUR RATED FIRE WALL CURB TO ROOF
- (1) HANGAR UNIT DESIGNATION

NOTES:

1. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. SEE SHEET C–12 FOR FLOOR SLAB DETAIL.
3. THIS DRAWING IS ONLY TO SHOW THE DESIGN INTENT OF THE T–HANGAR FLOOR PLAN LAYOUT. IT IS NOT INTENDED TO SHOW STRUCTURAL OR ARCHITECTURAL DESIGN. THE MANUFACTURER'S PRE–ENGINEERED DESIGN DRAWINGS FOR THE BUILDING STRUCTURE AND ITS FOUNDATION SHALL BE PREPARED BY THEIR ENGINEER OF RECORD AND SUBMITTED SEPARATELY FOR PUBLIC RECORD AND PERMITTING. THE STRUCTURAL DESIGN SHALL BE PER THE LATEST EDITIONS OF THE FLORIDA BUILDING CODE, CITY OF MARIANNA DEVELOPMENT CODE, AISC, ACI, AND ASCE.
4. PARTITION AND FIREWALL LOCATIONS ARE SHOWN PER NFPA 409 (LATEST EDITION)–STANDARD ON AIRCRAFT HANGARS. ADDITIONAL DETAILS ARE INCLUDED ON SHEET C–12. PAYMENT FOR FURNISHING AND INSTALLING PARTITIONS AND FIREWALLS INCLUDING BUT NOT LIMITED TOO ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCIDENTAL TO THE RESPECTIVE H–100 HANGAR UNIT PAY ITEMS.
5. ALL MOBILIZATION AND SITE WORK ASSOCIATED WITH HANGAR DEVELOPMENT SHALL BE INCIDENTAL TO PAY ITEM H–100–1 AND H–100–2.
6. WALK DOOR SHOWN RIGHT SIDE, OUTWARD OPENING. ACTUAL LOCATION AND OPENING ORIENTATION SHALL BE PER THE MANUFACTURER'S SHOP AND ERECTION DRAWINGS.
7. TAIL BAY SECTION WIDTHS SHALL BE THE SAME DIMENSION.
8. IF HANGAR UNIT LENGTH DIFFERS FROM THE MINIMUM DIMENSION PROVIDED, CONTRACTOR SHALL COORDINATE WITH ENGINEER ON BUILDING PLACEMENT.
9. BOTH T–HANGAR BUILDINGS SHALL BE IDENTICAL.

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T-HANGAR LAYOUT PLAN

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

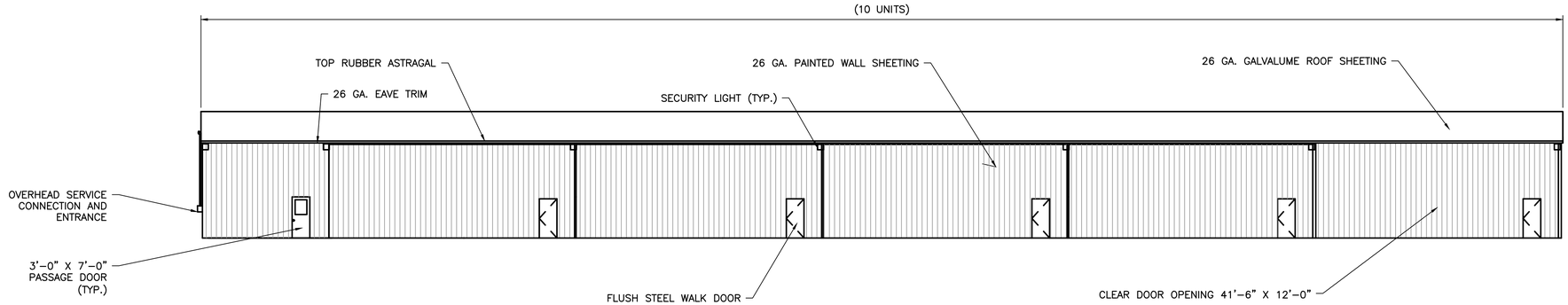
PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

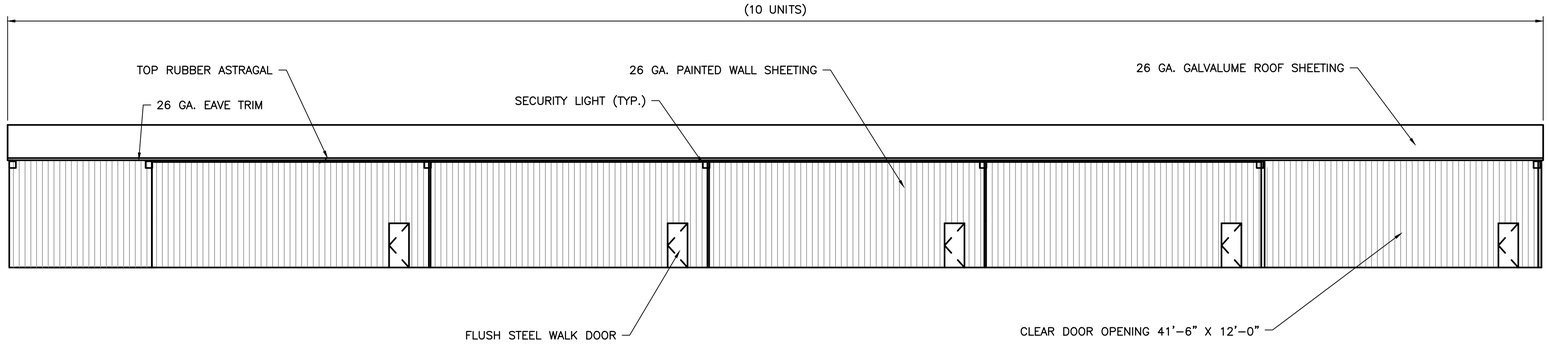
SHEET

C-10



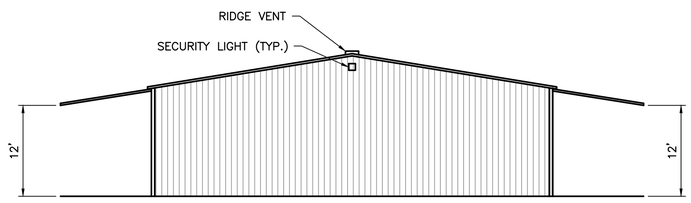
NORTH ELEVATION
ADD ALTERNATE 1 AND 2

N.T.S.



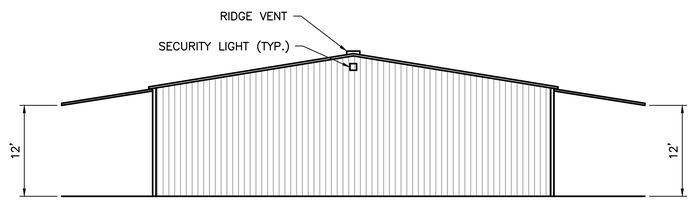
SOUTH ELEVATION
ADD ALTERNATE 1 AND 2

N.T.S.



EAST ELEVATION
ADD ALTERNATE 1 AND 2

N.T.S.



WEST ELEVATION
ADD ALTERNATE 1 AND 2

N.T.S.

NOTES:

1. THIS DRAWING IS PROVIDED TO SHOW DESIGN INTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BUILDING STRUCTURAL DESIGN AND FLOOR SLAB DESIGN BY A COMPETENT STRUCTURAL ENGINEER LICENSED IN THE STATE OF FLORIDA FOR PERMITTING AND CONSTRUCTION. REFER TO SHEET C–12 FOR ADDITIONAL STRUCTURAL GUIDELINES.
2. REFER TO TECHNICAL SPECIFICATION SECTION H–100 AND TABLE OF MINIMUM DIMENSIONS ON SHEET C–10 FOR ADDITIONAL HANGAR REQUIREMENTS.
3. BOTH T–HANGAR BUILDINGS SHALL BE IDENTICAL.

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T-HANGAR ELEVATIONS

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	J.R.C.
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PROJECT NO:	2022.260.03
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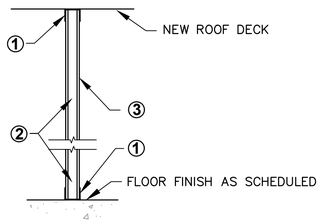
SHEET
C-11

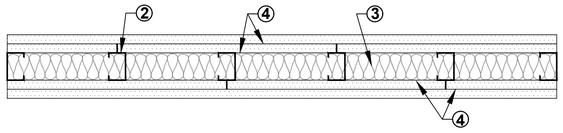


1 HOUR FIRE-RATED PARTITION

N.T.S.

FIRE RESISTANCE RATINGS - ANSI/UL 263		
NON-BEARING WALL RATING - 1 HOUR		
1	FLOOR AND CEILING RUNNER:	3 5/8–INCH WIDE, 1 1/2–INCH DEEP, GALVANIZED STEEL CHANNEL OF NO. 20 MSG MINIMUM SECURED WITH STEEL FASTENERS AT MAXIMUM 16–INCH SPACING, O.C. CONTINUOUS SEALANT AND MTL. J BEAD BOTH SIDES.
2	STEEL STUDS:	3 5/8–INCH WIDE, 1 1/4–INCH DEEP WITH 1/4–INCH FOLDED BACK RETURN FLANGE LEGS, GALVANIZED STEEL CHANNEL OF NO. 20 MSG MINIMUM AT MAXIMUM 16–INCH SPACING. STUDS TO BE CUT 3/4–INCH LESS THAN FULL HEIGHT, FRICTION FITTED INTO FLOOR AND CEILING RUNNERS.
3 – A	GYPSUM BOARD:	5/8–INCH THICK, 4–FOOT WIDE, 1–LAYER APPLIED TO EACH SIDE OF STEEL STUDS. INNER LAYER APPLIED VERTICALLY WITH JOINTS CENTERED OVER STUDS AND STAGGERED ON OPPOSITE STUD SIDES.
3 – B	GYPSUM BOARD FASTENERS:	1 1/4–INCH LONG TYPE S STEEL SCREWS SPACED 12–INCH O.C. ALONG PERIMETER AND 24–INCH O.C. IN–FIELD.
4	JOINT TAPE AND COMPOUND:	OUTER LAYER JOINTS COVERED WITH JOINT COMPOUND AND PAPER OR MESH TAPE. SCREW HEADS COVERED WITH JOINT COMPOUND.

NONBEARING WALL RATING - 1 HOUR



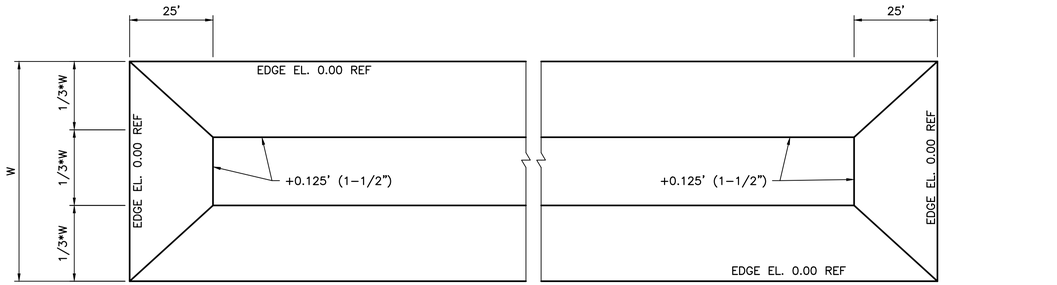
HORIZONTAL SECTION

N.T.S.

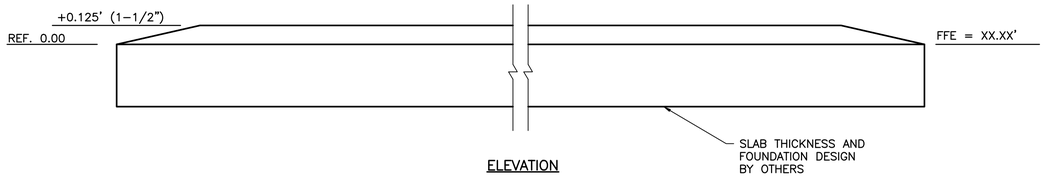
NOTE: ALTERNATE TAYLOR COUNTY APPROVED DESIGN WILL BE ALLOWED.

FIRE RESISTANCE RATINGS - ANSI/UL 263		
DESIGN NO. U490		
NON-BEARING WALL RATING - 4 HOUR		
1	FLOOR AND CEILING RUNNER:	3 5/8–INCH WIDE, 1 1/2–INCH DEEP, GALVANIZED STEEL CHANNEL OF NO. 20 MSG MINIMUM SECURED WITH STEEL FASTENERS AT MAXIMUM 16–INCH SPACING, O.C.
2	STEEL STUDS:	3 5/8–INCH WIDE, 1 1/4–INCH DEEP WITH 1/4–INCH FOLDED BACK RETURN FLANGE LEGS, GALVANIZED STEEL CHANNEL OF NO. 20 MSG MINIMUM AT MAXIMUM 16–INCH SPACING. STUDS TO BE CUT 3/4–INCH LESS THAN FULL HEIGHT, FRICTION FITTED INTO FLOOR AND CEILING RUNNERS.
3	BATTS AND BLANKETS:	NOMINAL 2–INCH THICK MINERAL WOOL BATT, FRICTION FITTED BETWEEN STUDS AND FLOOR AND CEILING RUNNER: THERMAFIBER, INC. TYPE SAFB.
4 – A	GYPSUM BOARD:	3/4–INCH THICK, 4–FOOT WIDE, 2–LAYERS APPLIED TO EACH SIDE OF STEEL STUDS. INNER LAYER APPLIED VERTICALLY WITH JOINTS CENTERED OVER STUDS AND STAGGERED ON OPPOSITE STUD SIDES. OUTER LAYER APPLIED HORIZONTALLY WITH VERTICAL BUTT JOINTS STAGGERED FROM INNER LAYER JOINTS, OR VERTICALLY WITH JOINTS CENTERED OVER STUDS AND STAGGERED ON OPPOSITE STUD SIDES.
4 – B	GYPSUM BOARD FASTENERS:	INNER LAYER: 1 1/4–INCH LONG TYPE S STEEL SCREWS SPACED 24–INCH O.C. ALONG PERIMETER AND IN–FIELD. OUTER LAYER (HORIZ. APP.): 2 1/4–INCH LONG TYPE S STEEL SCREWS SPACED 12–INCH O.C. ALONG PERIMETER AND IN–FIELD. ALONG HORIZONTAL JOINTS, 1 1/2–INCH LONG TYPE G STEEL SCREWS TO BE APPLIED 24–INCH O.C. BETWEEN STUDS, AND 1–INCH FROM THE LONGITUDINAL JOINT. OUTER LAYER (VERT. APP.): JOINTS STAGGERED, SECURED WITH 2 1/4–INGH LONG TYPE S STEEL SCREWS SPACED 12–INCH O.C. ALONG PERIMETER AND IN–FIELD.
4 – C	GYPSUM BOARD SPEC:	UNITED STATES GYPSUM CO. TYPE IP–X3 OR ULTRACODE
5	JOINT TAPE AND COMPOUND:	OUTER LAYER JOINTS COVERED WITH JOINT COMPOUND AND PAPER OR MESH TAPE. SCREW HEADS COVERED WITH JOINT COMPOUND.

NONBEARING WALL RATING - 4 HOUR UL DESIGN NUMBER U490



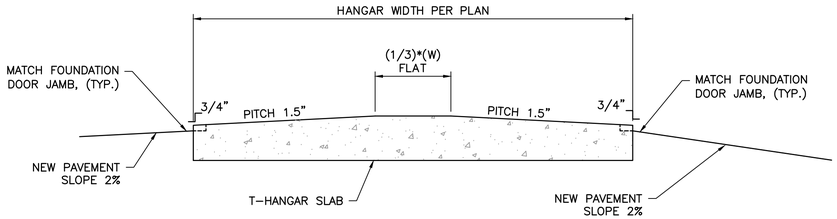
PLAN



ELEVATION

SLOPED FLOOR SLAB DETAIL

N.T.S.



TYPICAL T-HANGAR PAVEMENT SECTION AT HANGAR DOOR

N.T.S.

NOTES:

1. FOR FOUNDATION SLAB FINISHING TO PITCH FLOOR.
2. CONCRETE FLOOR SLAB SHALL BE NOTCHED A HEIGHT OF –3/4" AT ALL HANGAR DOORS TO LIMIT INFILTRATION OF MOISTURE INTO THE HANGAR. NOTCHED AREA SHALL BE LARGE ENOUGH TO ACCEPT HANGAR DOOR JAMB.

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ENGINEERS & PLANNERS
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CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

T-HANGAR FOUNDATION PLANS & DETAILS

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

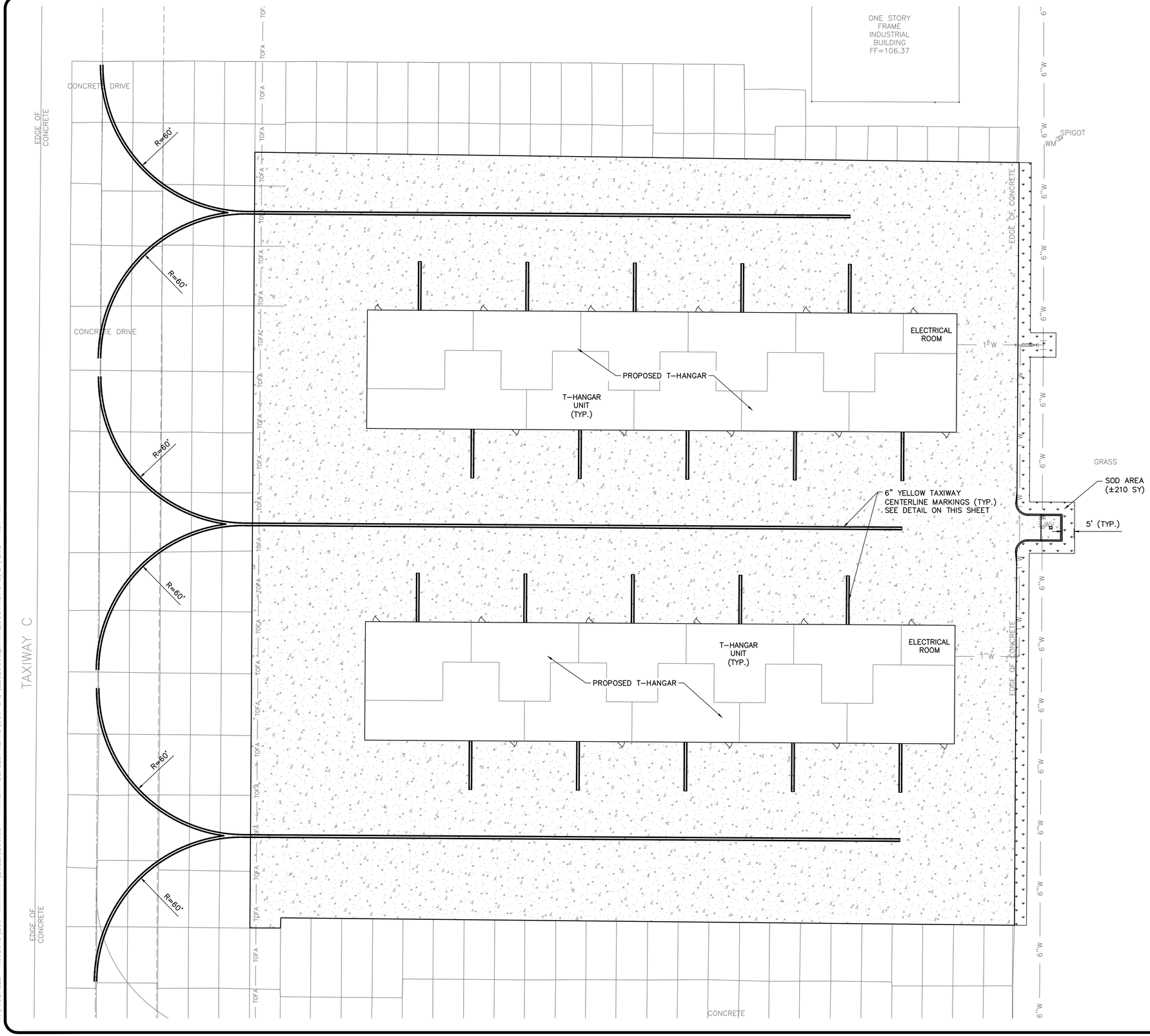
PREPARED FOR

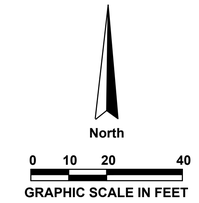
CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET

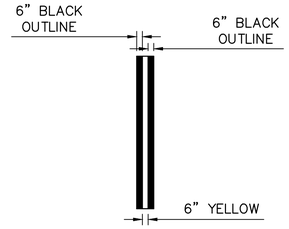
C-12





GENERAL NOTES:

1. SOD SHALL BE CERTIFIED TO BE FREE OF MILLET SEED AND NOXIOUS WEEDS BY THE FLORIDA DEPARTMENT OF AGRICULTURE, DIVISION OF PLANT INDUSTRY.
2. ALL DISTURBED AREAS SHALL BE SODDED. IF AREAS TO BE SODDED ARE OUTSIDE OF THE LIMITS SHOWN ON THIS SHEET, THIS SODDING SHALL BE AT THE CONTRACTORS EXPENSE.
3. SOD FOR RESTORATION PURPOSES TO BE OF SAME SPECIES AND TYPE.
4. CONTRACTOR IS RESPONSIBLE FOR MINIMIZING AND REPAIRING EROSION DURING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR PROTECTING NEW SOD FROM EROSION UNTIL THE SOD IS FULLY ESTABLISHED.
5. CONTRACTOR SHALL WATER AND MOW SOD REGULARLY TO ENSURE SOD BECOMES ESTABLISHED. PAYMENT FOR SOD SHALL NOT BE PROVIDED UNTIL A HEALTHY STAND OF SOD IS ESTABLISHED.



TAXIWAY CENTERLINE STRIPE MARKING DETAIL

N.T.S.

CALL 2 WORKING DAYS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

LEGEND

- PROPERTY BOUNDARY
- 110 EXISTING CONTOUR
- 110 PROPOSED CONTOUR
- EXISTING ROAD
- PROPOSED CONCRETE
- LIMITS OF SOD

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

MARKING & SOD PLAN (T-HANGARS)

RELEASE FOR BID

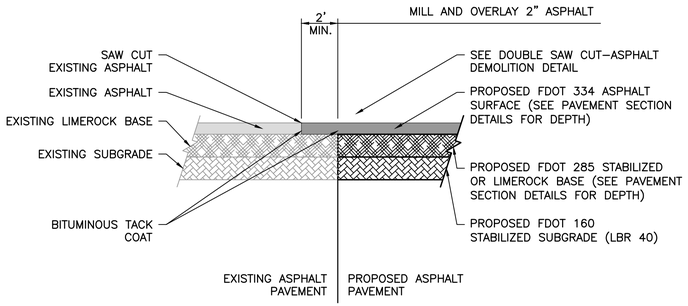
MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

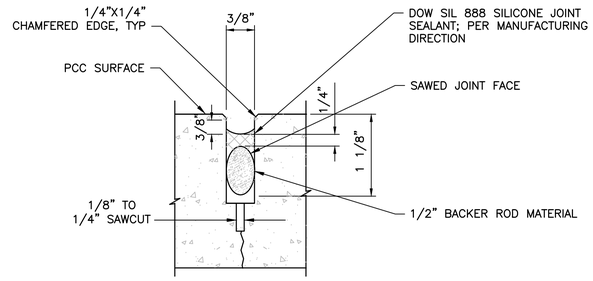
DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
C-13



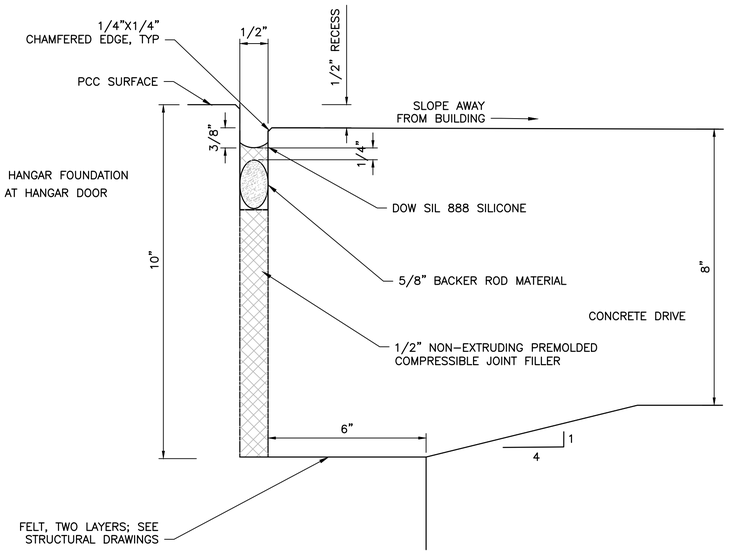
ASPHALT / ASPHALT PAVEMENT BUTT JOINT DETAIL

N.T.S.



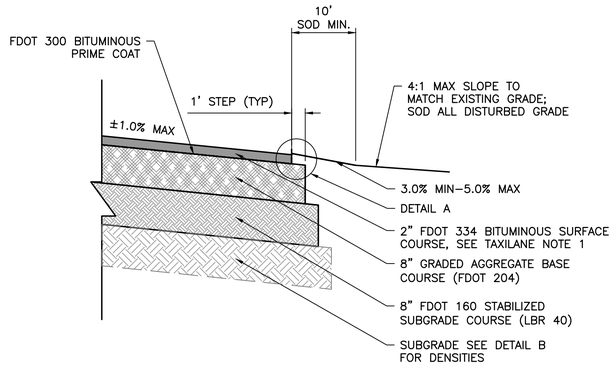
PCC CONTRACTION JOINT DETAIL

N.T.S.



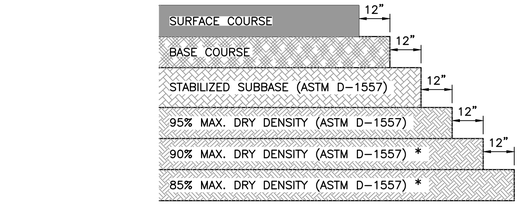
HANGAR FOUNDATION CONCRETE DRIVE PCC CONSTRUCTION JOINT DETAIL

N.T.S.



TYPICAL ASPHALT SECTION

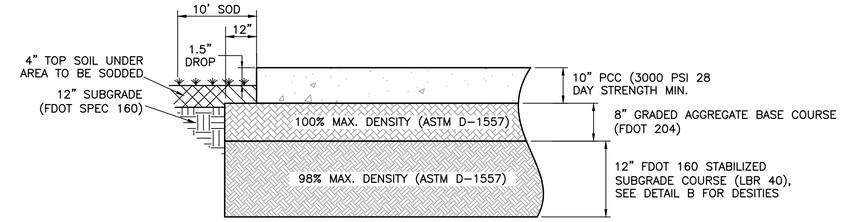
N.T.S.



* MINIMUM COMPACTION AT LEAST 95% OF MODIFIED PROCTOR MAX. DENSITY (ASTM D–1557) REQUIRED FOR ALL BACKFILLED MATERIALS BENEATH PAVEMENT.

DETAIL B - SUBGRADE COMPACTION

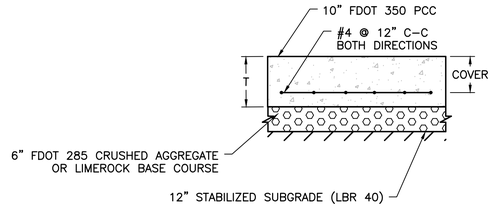
N.T.S.



TYPICAL PCC APRON SECTION

N.T.S.

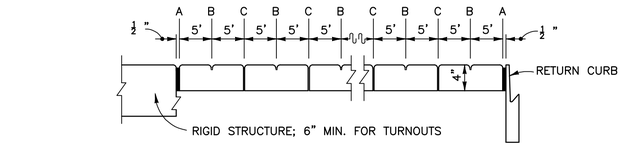
* MINIMUM COMPACTION AT LEAST 95% OF MODIFIED PROCTOR MAX. DENSITY (ASTM D–1557) REQUIRED FOR ALL BACKFILLED MATERIALS BENEATH PAVEMENT.



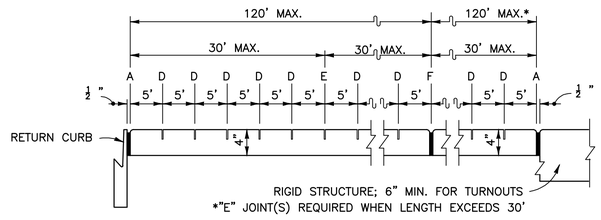
CONCRETE SECTION DESIGNATION	(T) SLAB THICKNESS (IN.)	(COVER) COVER (IN.) (2" MIN)	MAX. EXPANSION JOINT SPACING (FT.)	60,000 PSI STEEL REINFORCING STEEL BAR SIZE & SPACING*
4000 PSI	10	6	15	#4 @ 12" C–C

TYPICAL PCC APRON SECTION

N.T.S.



OPEN JOINTS

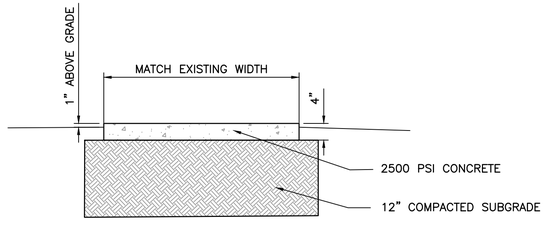


SAWED JOINTS

LONGITUDINAL SECTION

CONCRETE SIDEWALK JOINT DETAIL

N.T.S. – FDOT STANDARD PLANS 550–001 LATEST EDITION



TYPICAL SIDEWALK SECTION

N.T.S.

LEGEND:

- A– 1/2" EXPANSION JOINTS (PREFORMED JOINT FILLER) BETWEEN THE SIDEWALK AND: DRIVEWAYS, SIDEWALK–INTERSECTIONS, AND ALL OTHER FIXED OBJECTS (E.G. DRAINAGE INLETS AND UTILITY POLES)
- B– 1/8" DUMMY JOINTS, TOOLED
- C– 1/8" FORMED OPEN JOINTS
- D– 3/16" SAW CUT JOINTS, 1 1/4" DEEP (96 HOUR) MAX. 5' CENTERS
- E– 3/16" SAW CUT JOINTS, 1 1/4" DEEP (WITHIN 12 HOURS) MAX. 30' CENTERS JOINT(S) REQUIRED WHEN LENGTH EXCEEDS 30'
- F– 1/2" EXPANSION JOINT WHEN RUN OF SIDEWALK EXCEEDS 120' INTERMEDIATE LOCATIONS WHEN CALLED FOR IN THE PLANS OR AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- G– COLD JOINT WITH BOND BREAKER, TOOLED

CONCRETE SIDEWALK JOINT DETAIL

N.T.S. – FDOT STANDARD PLANS 550–001 LATEST EDITION

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AUTHORIZATION NUMBER: 5057
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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

TYPICAL PAVEMENT DETAILS (SHEET 1 OF 2)

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

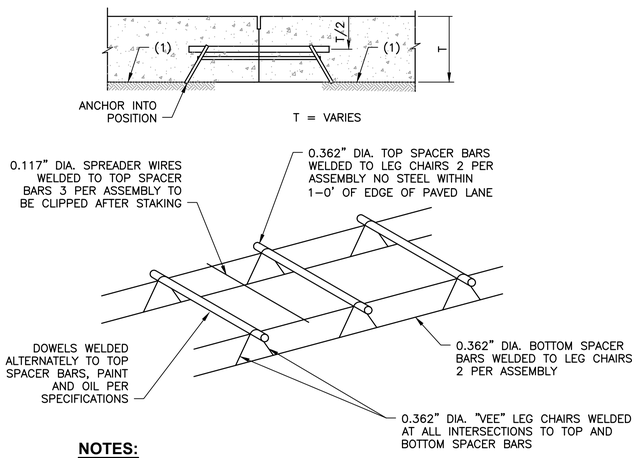
PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET

C-14

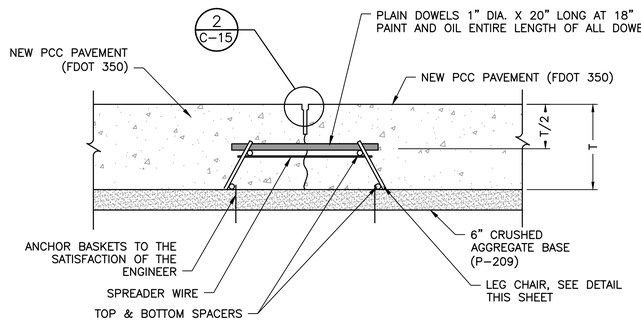


NOTES:

1. BASKET MUST BE FIRMLY ATTACHED TO EXISTING OR NEW BASE.
2. ALL WIRE SIZES SHOWN ARE MINIMUM SIZE.
3. DOWELS SHALL BE HELD FIRMLY IN THE ABOVE WELDED ASSEMBLY.

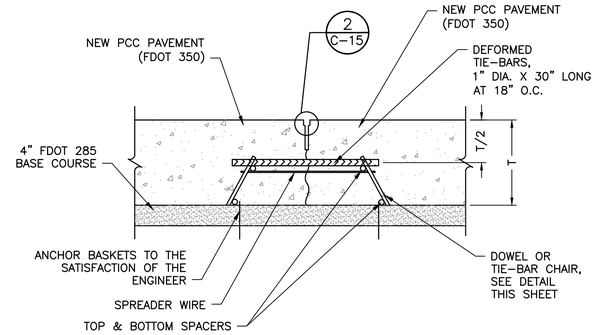
TYPICAL DOWELED AND TIE-BAR BASKET

N.T.S.



TYPE F DOWELED CONTRACTION JOINT DETAIL

N.T.S.



TYPE G DEFORMED DOWELED CONTRACTION JOINT DETAIL

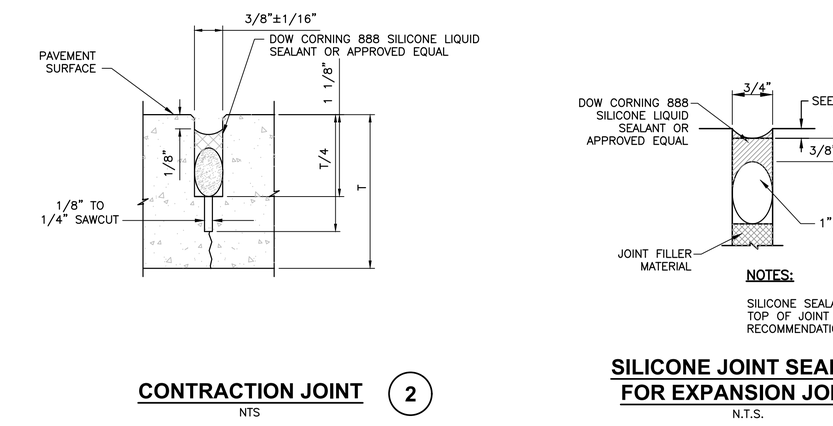
N.T.S.

JOINT NOTES:

1. COLD APPLIED SEALANTS: A BACKER ROD SHALL BE INSTALLED AS SHOWN ON THE PLANS AND THE PRIMER SHALL BE APPLIED IN THE CORRECT SEQUENCE IN ACCORDANCE WITH THE SEALANT MANUFACTURER'S INSTRUCTIONS PRIOR TO PLACEMENT OF THE JOINT SEALER. THE SEALANT SHALL BE APPLIED IN CONTINUOUS OPERATION WITH AN APPROVED MECHANICAL DRIVE THAT WILL FORCE THE SEALANT TO THE BOTTOM OF THE JOINT AND COMPLETELY FILL THE JOINT WITHOUT SPILLING THE MATERIAL ON THE SURFACE OF THE PAVEMENT AND SHALL ADHERE TO THE CONCRETE AND BE FREE OF VOIDS. THE SEALANT SHALL THEN BE TOOLED WITH AN APPROPRIATE TOOL TO PRODUCE A SLIGHTLY CONCAVE SURFACE APPROXIMATE 3/8" BELOW THE SURFACE. THE SEALANT SHALL HAVE A MINIMUM THICKNESS OF 3/8". TOOLING SHALL BE ACCOMPLISHED BEFORE A SKIN FORMS ON THE SURFACE, USUALLY WITHIN TEN MINUTES OF APPLICATION. THE SEALANT SHALL BE TOOLED IN BOTH DIRECTIONS TO ENSURE A VOID–FREE INSTALLATION. SEALANT WHICH DOES NOT BOND TO THE SURFACE OF THE JOINT WALLS, CONTAINS VOIDS, OR FAILS TO SET TO A TACK–FREE CONDITION, WILL BE REJECTED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST. BEFORE SEALING THE JOINTS THE CONTRACTOR SHALL DEMONSTRATE THAT THE EQUIPMENT AND PROCEDURES FOR PREPARING, MIXING, AND PLACING THE SEALANT WILL PRODUCE A SATISFACTORY JOINT SEAL. THIS SHALL INCLUDE THE PREPARATION OF TWO SMALL BATCHES AND THE APPLICATION OF THE RESULTING MATERIAL.

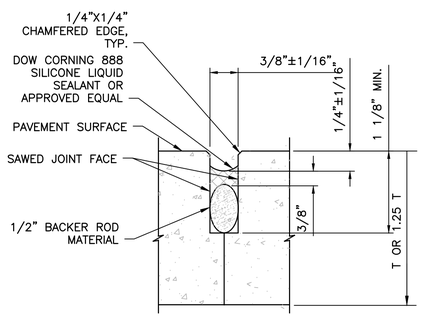
2. A MANUFACTURER'S REPRESENTATIVE(S) IS TO CONDUCT THE DEMONSTRATION(S), TRAIN THE CONTRACTOR'S PERSONNEL, AND ENSURE THE INSTALLATION PROCEDURES ARE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS PRIOR TO THE START OF THE SEALING OPERATIONS. THE REPRESENTATIVE(S) SHALL VISIT THE JOB–SITE AT LEAST ONE (1) TIME DURING THE SEALING OPERATION FOR EACH TYPE OF SEALANT, AND AFTER THE SEALING IS COMPLETE. THE REPRESENTATIVE IS TO CONDUCT A GENERAL INSPECTION OF THE WORK AND PERFORM MORE EXTENSIVE INSPECTIONS AND/OR TESTING ON A RANDOM BASIS TO REASONABLY ASSURE THAT THE CONSTRUCTION IS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED CONSTRUCTION METHODS AND PROCEDURES. A REPORT OUTLINING THE FINDINGS IS TO BE SUBMITTED AT THE COMPLETION OF THE INSPECTION.

3. IN ORDER TO ENSURE THAT SUPERIOR WORKMANSHIP IS ACHIEVED THROUGHOUT THE CONTRACT, THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT A TEST SECTION PER CREW ON A PORTION OF THE CONTRACT SITE PRIOR TO COMMENCING THE CONTRACT WORK IN ORDER TO EVALUATE WORKMANSHIP OF EACH OF THE CONTRACTOR'S CREWS. IF THE TEST SITES ARE COMPLETED TO THE SATISFACTION OF THE OAR, THE CONTRACTOR SHALL THEN RECEIVE NOTICE TO PROCEED WITH THE APPROVED CREWS FOR THE REMAINDER OF THE CONTRACT WORK. HOWEVER, TO MAINTAIN AN ACCEPTABLE LEVEL OF PRODUCTIVITY, THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE SAME CREW MEMBERS PER CREW WHO PERFORMED WORK IN THE TEST AREA TOGETHER THROUGHOUT THE DURATION OF THE CONTRACT. IF ANY PERSONNEL CHANGES ARE ANTICIPATED BY THE CONTRACTOR, EITHER REDUCING THE WORK FORCE OR CHANGING SPECIFIC INDIVIDUALS, THE OWNER'S AUTHORIZED REPRESENTATIVE IS TO BE NOTIFIED. IF, AT ANY POINT DURING THE CONSTRUCTION PERIOD AFTER A PERSONNEL CHANGE HAS BEEN MADE, THE OAR BELIEVES THE WORKMANSHIP HAS DIMINISHED, THE CREW SHALL BE ORDERED TO HALT ALL CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL THEN BE REQUIRED TO REINSTATE THE ORIGINAL WORK CREW OF SET–UP WITH THE PROJECT MANAGER TO PERFORM IN ANOTHER TEST AREA TO RE–QUALIFY THE NEW CREW. A NEW TEST AREA WILL THEN BE DEVELOPED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. UPON A SUCCESSFUL EVALUATION OF THE NEW TEST AREA, THE EVALUATED CREW MAY PROCEED WITH THE CONTRACT CONSTRUCTION.



THICKENED EDGE DETAIL

N.T.S.



CONSTRUCTION JOINT 1

NTS

CONTRACTION JOINT 2

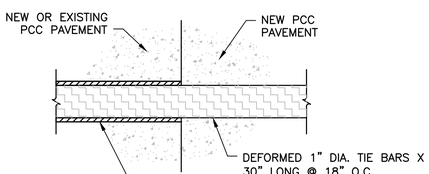
NTS

NOTES:

SILICONE SEALANT SHALL BE RECESSED BELOW TOP OF JOINT IN ACCORDANCE WITH MFG. RECOMMENDATIONS.

SILICONE JOINT SEALANT FOR EXPANSION JOINTS 3

N.T.S.



TIE-BAR DETAIL 5

N.T.S.

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

TYPICAL PAVEMENT DETAILS (SHEET 2 OF 2)

RELEASE FOR BID

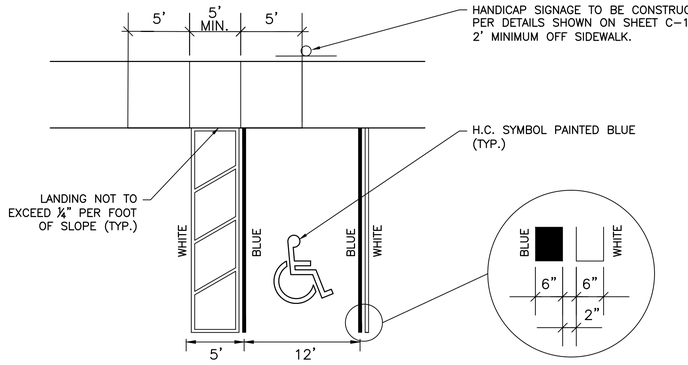
MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
C-15



SEE CODE 6.04.051

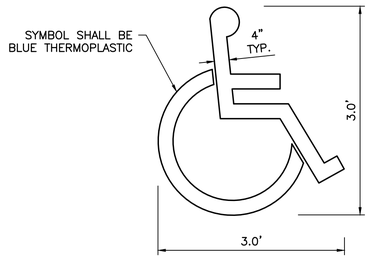
TYPICAL HANDICAPPED STRIPING AND RAMP DETAIL

N.T.S.

NOTES:

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

2. FDOT RECOMMENDS MEASURING PARKING SPACE WIDTH FROM CENTER TO CENTER BETWEEN BLUE STRIPES.

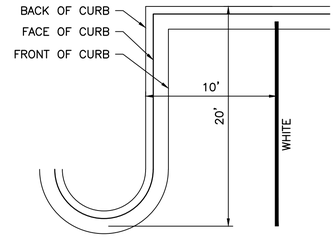


ACCESSIBLE PARKING SYMBOL

N.T.S.

NOTE:

1. EACH SUCH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT. AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE GRADE SIGN.



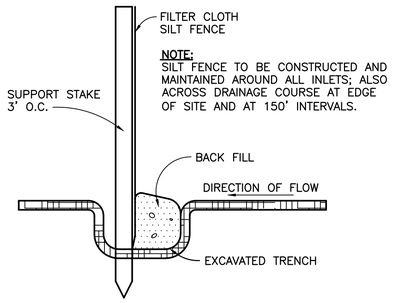
PARKING SPACE DETAIL

N.T.S.

NOTES:

1. PARKING SPACES ARE 20' IN LENGTH. REFER TO SITE GEOMETRY PLAN.

2. ALL PAVEMENT MARKINGS SHALL CONFORM TO FDOT STANDARD PLANS 711-001.



TYPE III SILT FENCE DETAIL

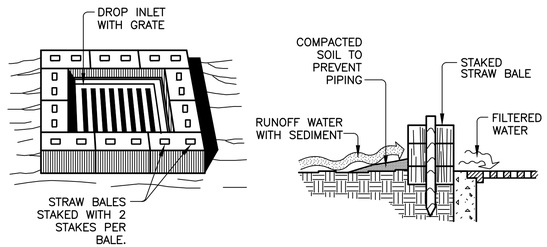
N.T.S.

NOTES:

1. EROSION PROTECTION: SOIL EROSION SEDIMENTATION MUST BE CONTROLLED AND RETAINED ON SITE DURING CONSTRUCTION. THEREFORE, EROSION PROTECTION, SUCH AS STAKED BALED HAY AND SILT FENCE BARRIERS, MUST BE INSTALLED PRIOR TO START OF CONSTRUCTION.

2. SILT FENCE BARRIER SHALL BE INSTALLED AS SHOWN ON PLANS, AND IN ALL AREAS SUBJECT TO SOIL EROSION SEDIMENTATION.

3. SEE SHEETS C-5, C-6, C-7, C-8 FOR SILT FENCE LOCATIONS.



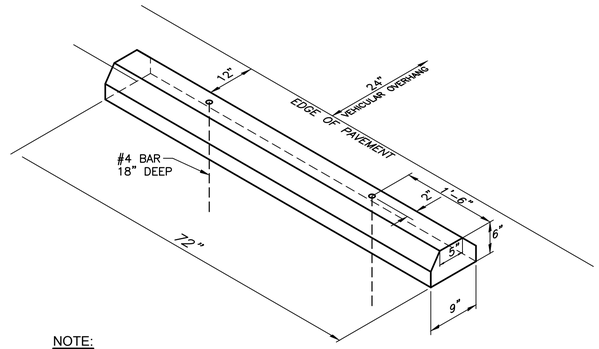
STRAW BALE DROP INLET SEDIMENT FILTER DETAIL

N.T.S.

NOTES:

1. THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

2. CONTRACTOR SHALL UTILIZE HAY BALES TO PROTECT EXISTING OR PROPOSED INLETS WITHIN THE CONSTRUCTION AREA.

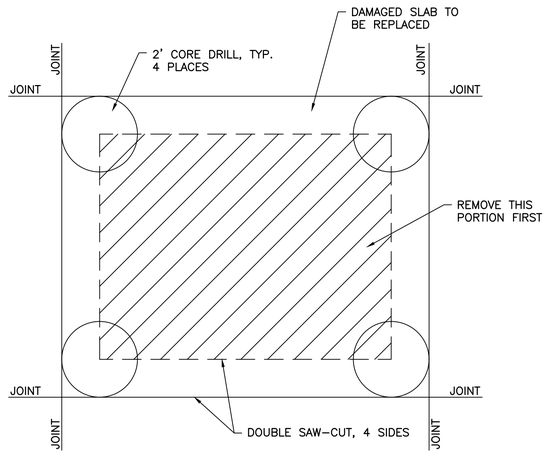


NOTE:

1. ALL PROPOSED HC PARKING SPACES REQUIRE WHEEL STOPS.

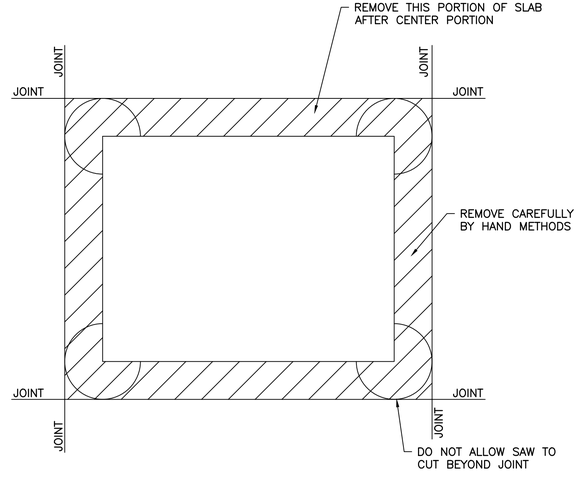
WHEEL STOP (CONCRETE)

N.T.S.



CONCRETE SLAB REMOVAL DETAIL STEP 1

N.T.S.



CONCRETE SLAB REMOVAL DETAIL STEP 2

N.T.S.

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
NICEVILLE, FL. 32578-2425
OFFICE: (850) 678-0050
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

AVCON

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

MISCELLANEOUS DETAILS (SHEET 1 OF 4)

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

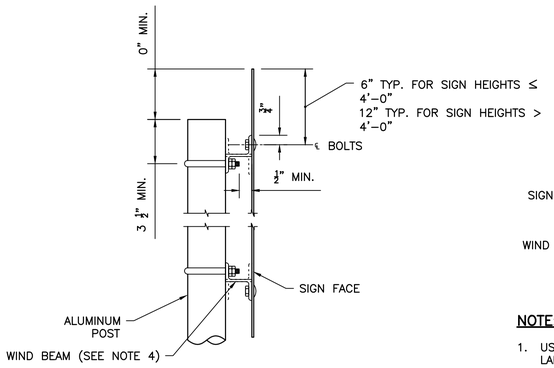
PREPARED FOR

CITY OF MARIANNA

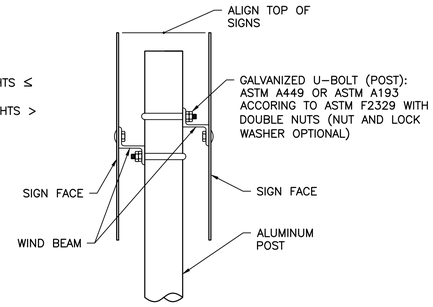
DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET

C-16



SINGLE SIGN SECTION



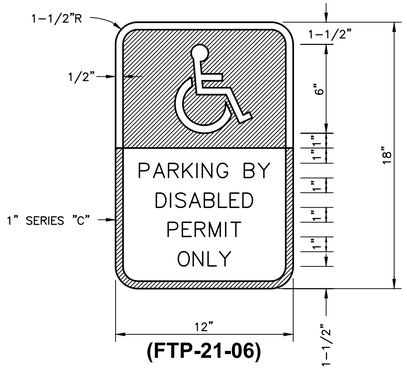
NOTE:

1. USE THE AREA AND THE CENTROID LOCATION OF THE LARGEST SIGN TO DETERMINE ALUMINUM POST SIZE.

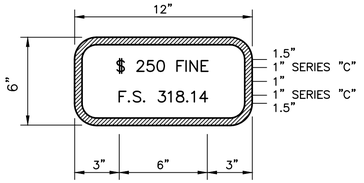
DOUBLE SIGN SECTION

MOUNTING DETAILS

N.T.S.



(FTP-21-06)



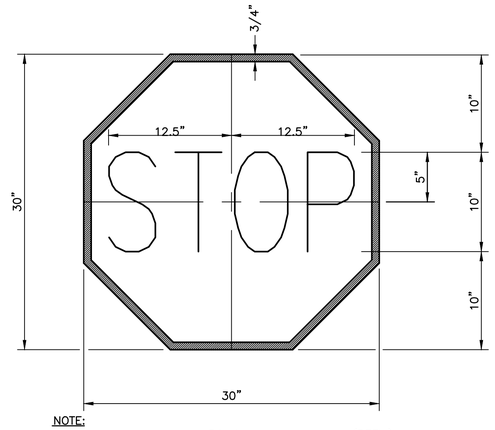
(FTP-22-06)

NOTES:

HEIGHT OF SIGNAGE REQUIREMENTS ARE 60" TO BOTTOM OF SIGN

HANDICAP SIGN DETAIL

(FDOT STANDARD PLANS NO. 700-010 AND 700-101)
N.T.S.

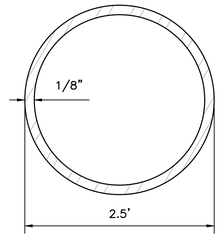


NOTE:

SIGN DESIGNATION:	R1-1	(REFL.)
RELECTORIZATION:	LEGEND, BORDER BACKGROUND	(REFL.)
SIGN COLORS:	LEGEND, BORDER BACKGROUND	(WHITE) (RED)

STOP SIGN DETAIL

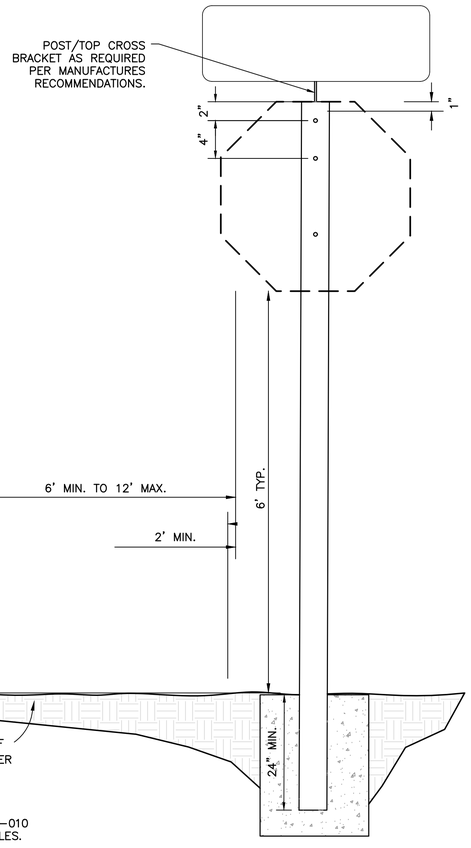
N.T.S.



NOTE:
ALUMINUM COLUMN POST RATED FOR 130 MPH WIND SPEEDS

POST SECTION

N.T.S.



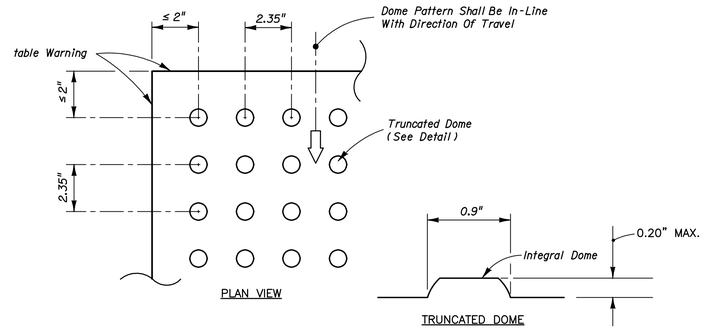
NOTES:

SEE FDOT STANDARD PLANS 700-010 FOR POST AND FOUNDATION TABLES.

TRAFFIC SIGN POST DETAIL

N.T.S.

ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL LENGTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES (610mm) FROM THE BACK OF CURB



ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL LENGTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES (610mm) FROM THE BACK OF CURB

TRUNCATED DOMES DETECTABLE WARNING

N.T.S. – COLOR BY LOCAL ORDINANCE

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
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OFFICE: (850) 678-0050
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

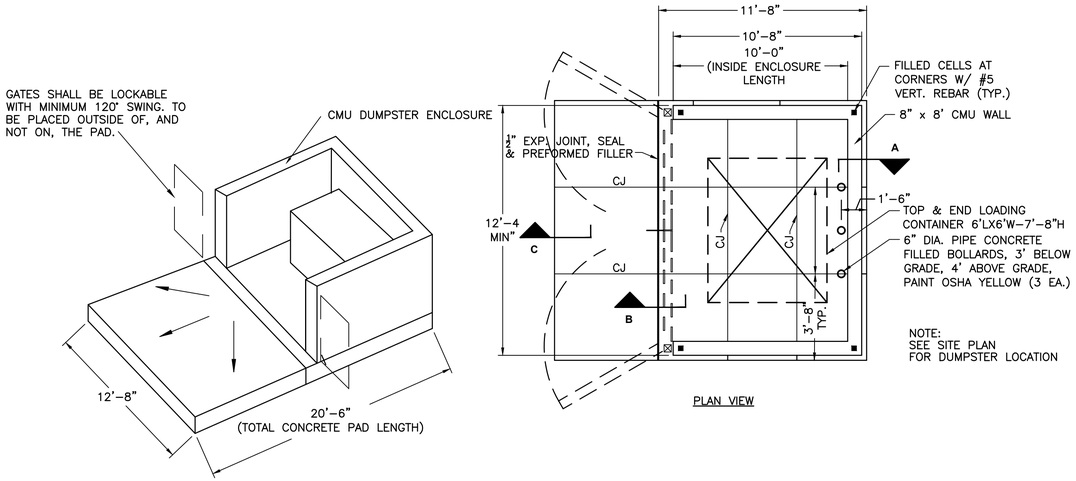
MISCELLANEOUS DETAILS (SHEET 2 OF 4)

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
PREPARED FOR
CITY OF MARIANNA

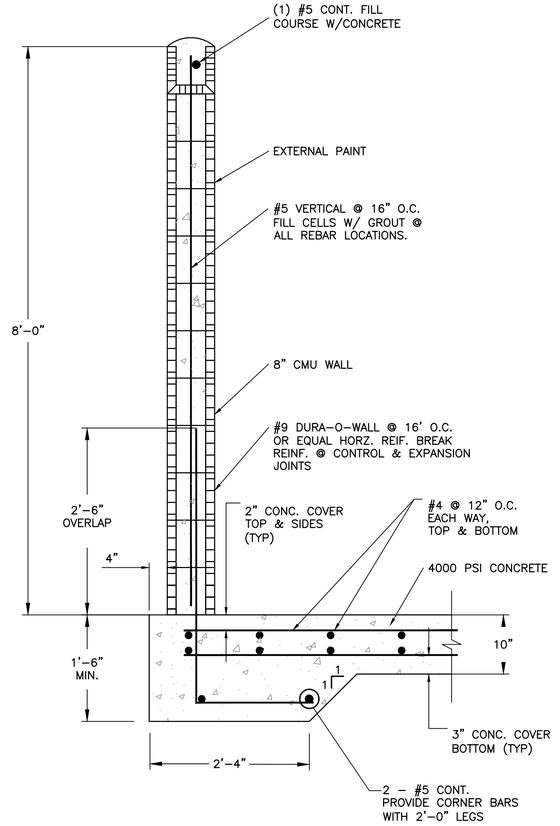
DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
C-17



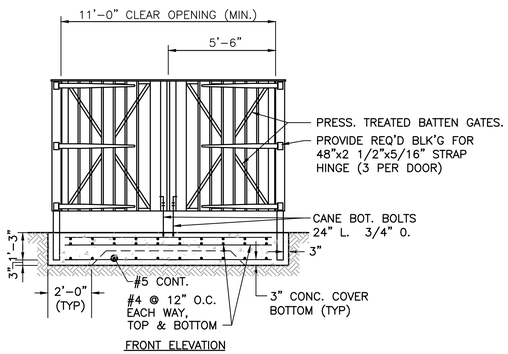
DUMPSTER PAD DETAIL

N.T.S.



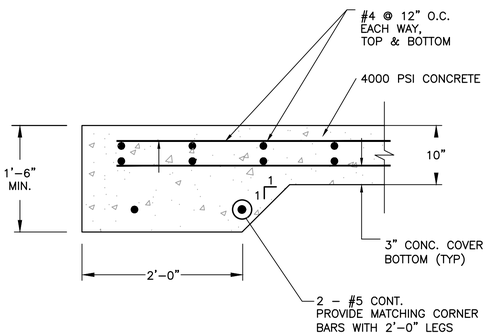
SECTION A
DUMPSTER ENCLOSURE

N.T.S.



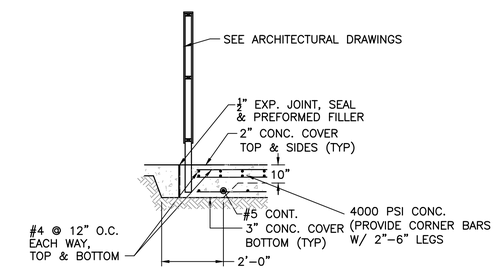
DUMPSTER GATE DETAIL

N.T.S.



SECTION C
TYP. TURN-DOWN-SLAB EDGE

N.T.S.



SECTION B
TRASH DUMPSTER GATE

N.T.S.

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
NICEVILLE, FL. 32578-2425
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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

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MISCELLANEOUS DETAILS (SHEET 3 OF 4)

RELEASE FOR BID

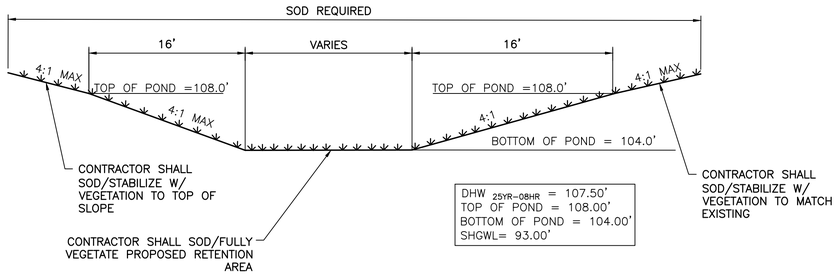
MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

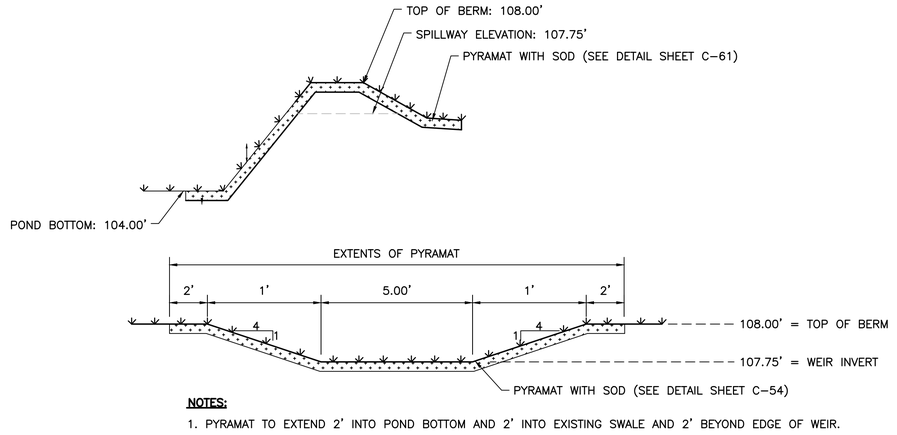
DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
C-18



RETENTION POND A

N.T.S.

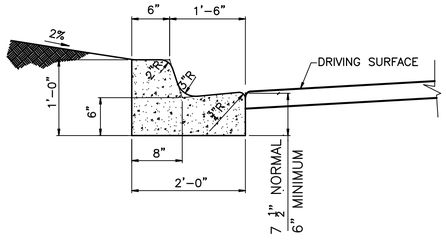


NOTES:

1. PYRAMAT TO EXTEND 2' INTO POND BOTTOM AND 2' INTO EXISTING SWALE AND 2' BEYOND EDGE OF WEIR.

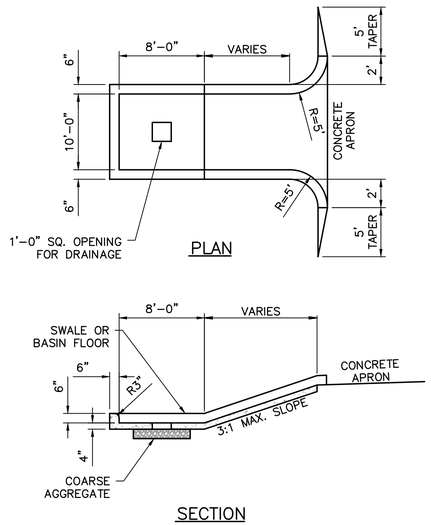
POND C OVERFLOW WEIR DETAIL

N.T.S.



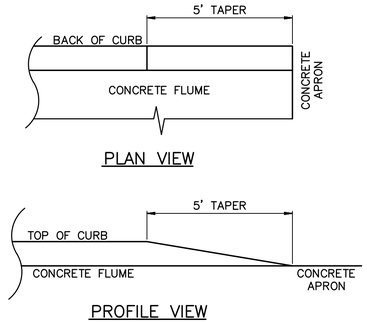
TYPE "F" CURB DETAIL

N.T.S.



CONCRETE FLUME DETAIL

N.T.S.



CURB TAPER DETAIL

N.T.S.

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

MISCELLANEOUS DETAILS (SHEET 4 OF 4)

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

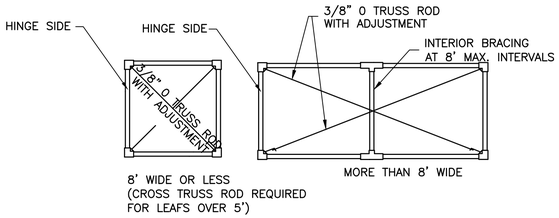
PREPARED FOR

CITY OF MARIANNA

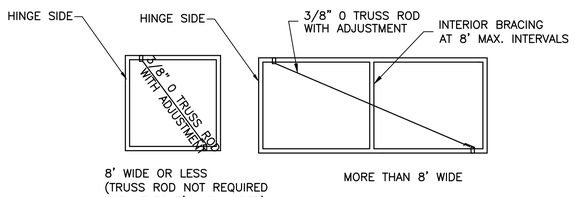
DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET

C-19



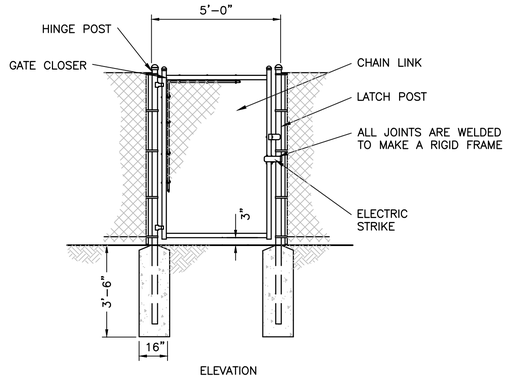
FITTED CONNECTIONS



WELDED CONNECTIONS

GATE FRAMES

N.T.S.

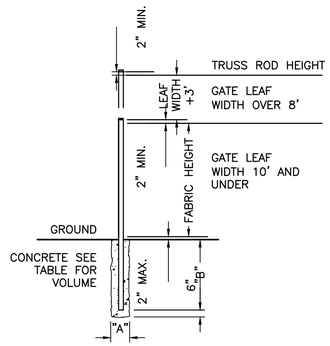


ELEVATION

PEDESTRIAN GATE

N.T.S.

NOTE:
REFER TO ELECTRICAL PLANS FOR WIRING DIAGRAM FOR ACCESS CONTROL THROUGH GATE.



DIMENSIONS	GATE WIDTH (ONE LEAF)			
	6' AND LESS	OVER 6' THROUGH 10'	OVER 10' THROUGH 15'	OVER 15' THROUGH 18'
A	12"	16"	20"	24"
B	48"	56"	62"	68"
C.Y. CONC.	0.13	0.26	0.45	0.70

GATE POST DETAIL

N.T.S.

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
NICEVILLE, FL. 32578-2425
OFFICE: (850) 678-0050
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

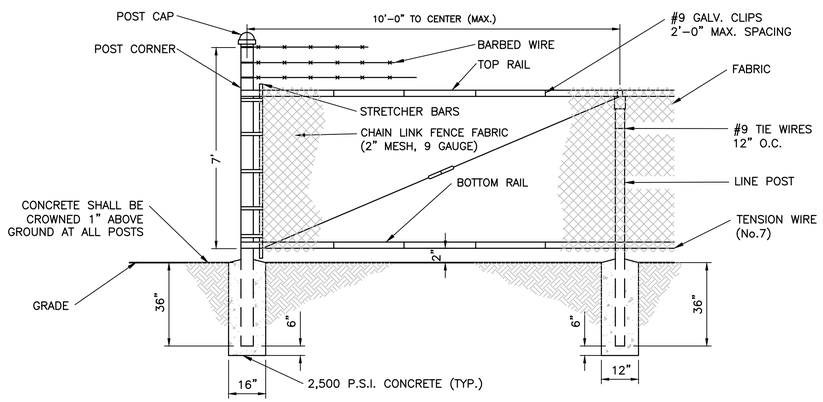
TYPICAL GATE DETAILS

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
PREPARED FOR
CITY OF MARIANNA

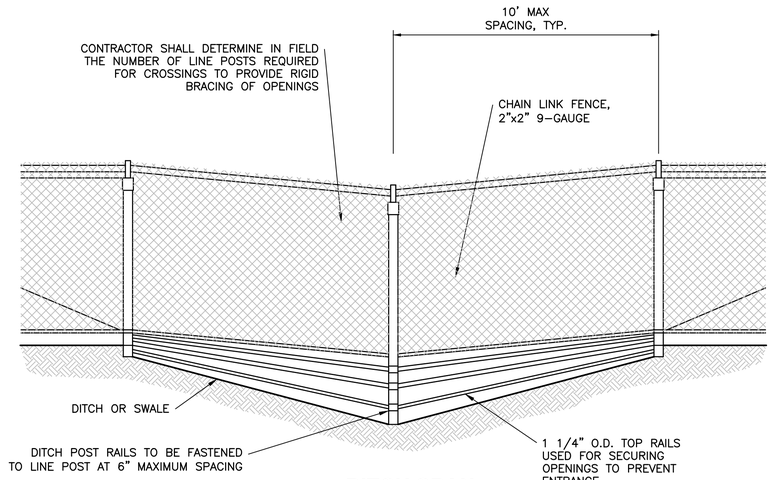
DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
C-20



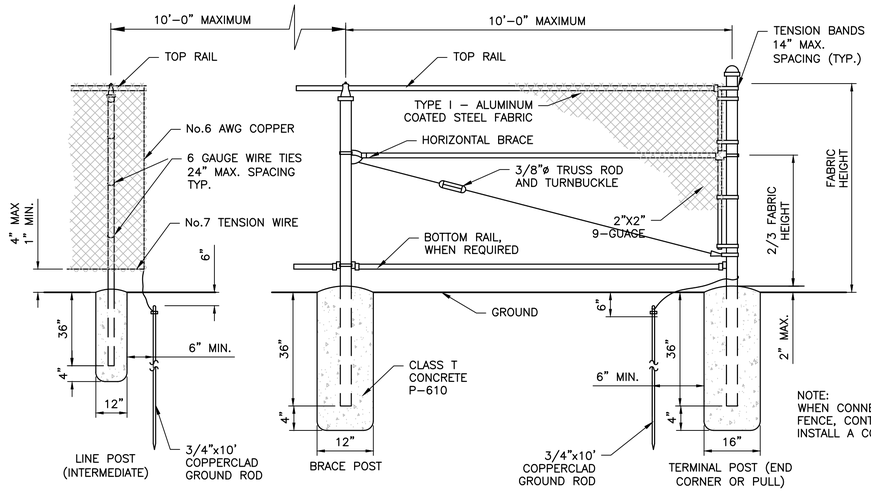
7' WIRE MESH SECURITY FENCE

N.T.S.



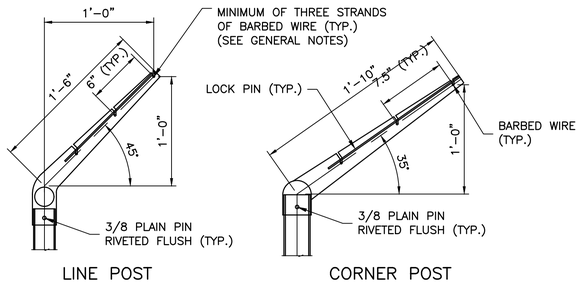
DITCH SPAN

N.T.S.



BRACE SECTION CHAIN LINK FENCE

N.T.S.



LINE POST CORNER POST

NOTE:

FENCE POST SHALL BE SET BACK SO BARBED WIRE DOES NOT EXTEND OVER PROPERTY LINES. BARBED WIRE ARMS SHALL BE INSTALLED ON SIDE AWAY FROM AIRPORT PROPERTY OR AIRCRAFT OPERATIONS AREA.

BARBED WIRE EXTENSION ARM DETAILS

N.T.S.

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
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OFFICE: (850) 678-0050
CORPORATE CERTIFICATE OF
AUTHORIZATION NUMBER: 5057
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AVCON

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

TYPICAL FENCE DETAILS

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET

C-21

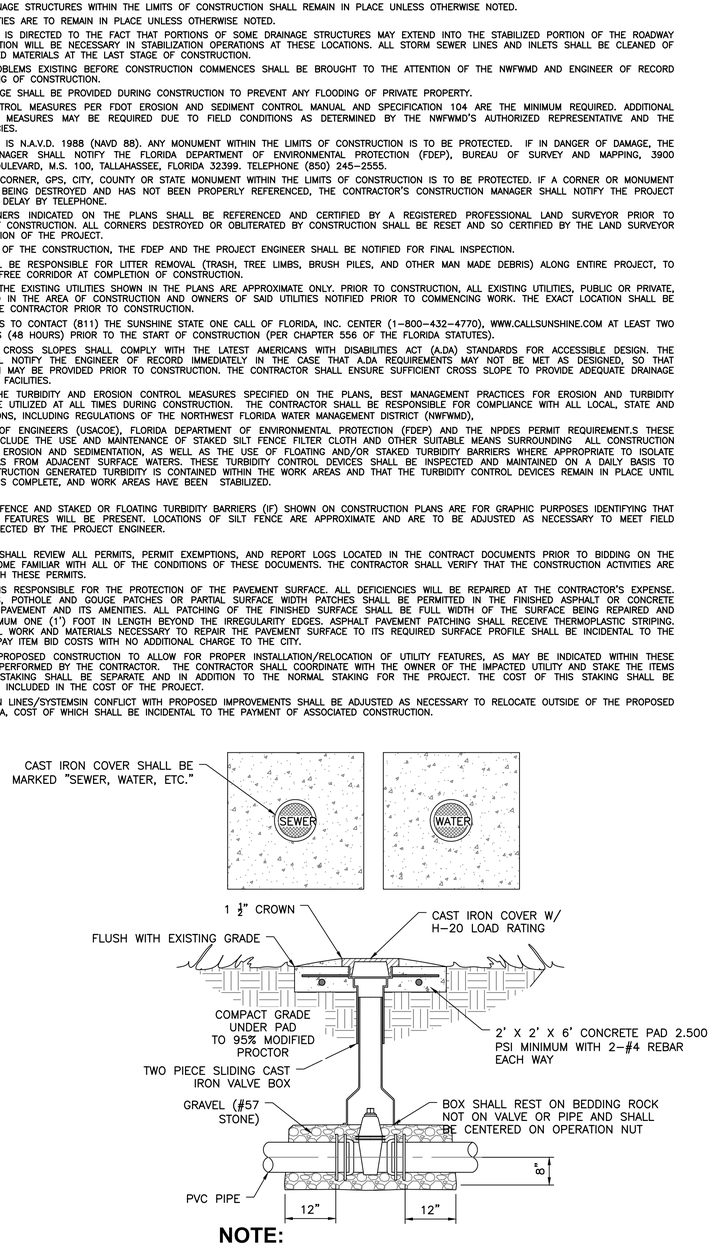
GENERAL NOTES

1. ALL GRADES ARE FINISHED GRADES.
2. ALL STATIONING AND OFFSETS ARE FROM, AND PERPENDICULAR OR RADIAL TO THE THE BASELINE OF SURVEY UNLESS OTHERWISE NOTED.
3. FOR STABILIZING AT INTERSECTIONS, TURNOUTS AND GRADED CONNECTIONS, SEE FDOT INDEX NO. 515.
4. ALL GRASSED AREAS DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE RESODDED "IN KIND' UNLESS OTHERWISE NOTED IN THE PLANS.
5. UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE CONSTRUCTION AREAS AND BACKFILLED WITH SUITABLE MATERIALS.
6. CONSTRUCTION SHALL INCLUDE REPLACING, WITH MATCHING MATERIALS; ANY DRIVEWAYS, WALKS, CURBS, SOD, STRIPING ETC. THAT ARE DAMAGED OR REMOVED DUE TO CONSTRUCTION. THIS WORK SHALL BE COORDINATED WITH THE PROPERTY OWNERS. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO THE OTHER CONTRACT ITEMS.
7. ALL PERSONAL PROPERTY WITHIN THE RIGHT-OF-WAY SHALL BE RELOCATED BY THE PROPERTY OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNERS TO PROVIDE NOTIFICATION AND A REASONABLE TIME FRAME TO RELOCATE ITEMS. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO REMOVING THE ITEMS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS UNLESS OTHERWISE STATED IN THE PLANS.
8. ALL PUBLIC AND PRIVATE PROPERTY AFFECTED BY THE CONSTRUCTION WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
9. ALL EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.
10. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
11. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES MAY EXTEND INTO THE STABILIZED PORTION OF THE ROADWAY AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS. ALL STORM SEWER LINES AND INLETS SHALL BE CLEANED OF DEBRIS AND ERODED MATERIALS AT THE LAST STAGE OF CONSTRUCTION.
12. ANY DRAINAGE PROBLEMS EXISTING BEFORE CONSTRUCTION COMMENCES SHALL BE BROUGHT TO THE ATTENTION OF THE NWFWMD AND ENGINEER OF RECORD PRIOR TO BEGINNING OF CONSTRUCTION.
13. TEMPORARY DRAINAGE SHALL BE PROVIDED DURING CONSTRUCTION TO PREVENT ANY FLOODING OF PRIVATE PROPERTY.
14. THE EROSION CONTROL MEASURES PER FDOT EROSION AND SEDIMENT CONTROL MANUAL AND SPECIFICATION 104 ARE THE MINIMUM REQUIRED. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO FIELD CONDITIONS AS DETERMINED BY THE NWFWMD'S AUTHORIZED REPRESENTATIVE AND THE REGULATORY AGENCIES.
15. BENCHMARK DATUM IS N.A.V.D. 1988 (NAVD 88). ANY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONSTRUCTION MANAGER SHALL NOTIFY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), BUREAU OF SURVEY AND MAPPING, 3900 COMMONWEALTH BOULEVARD, M.S. 100, TALLAHASSEE, FLORIDA 32399. TELEPHONE (850) 245-2555.
16. ANY PUBLIC LAND CORNER, GPS, CITY, COUNTY OR STATE MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER OR MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR'S CONSTRUCTION MANAGER SHALL NOTIFY THE PROJECT ENGINEER WITHOUT DELAY BY TELEPHONE.
17. ALL SURVEY CORNERS INDICATED ON THE PLANS SHALL BE REFERENCED AND CERTIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL CORNERS DESTROYED OR OBLITERATED BY CONSTRUCTION SHALL BE RESET AND SO CERTIFIED BY THE LAND SURVEYOR PRIOR TO COMPLETION OF THE PROJECT.
18. UPON COMPLETION OF THE CONSTRUCTION, THE FDEP AND THE PROJECT ENGINEER SHALL BE NOTIFIED FOR FINAL INSPECTION.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR LITTER REMOVAL (TRASH, TREE LIMBS, BRUSH PILES, AND OTHER MAN MADE DEBRIS) ALONG ENTIRE PROJECT, TO PROVIDE A LITTER FREE CORRIDOR AT COMPLETION OF CONSTRUCTION.
20. THE LOCATION OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES, PUBLIC OR PRIVATE, SHALL BE LOCATED IN THE AREA OF CONSTRUCTION AND OWNERS OF SAID UTILITIES NOTIFIED PRIOR TO COMMENCING WORK. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
21. THE CONTRACTOR IS TO CONTACT (811) THE SUNSHINE STATE ONE CALL OF FLORIDA, INC. CENTER (1-800-432-4770), WWW.CALLSUNSHINE.COM AT LEAST TWO (2) BUSINESS DAYS (48 HOURS) PRIOR TO THE START OF CONSTRUCTION (PER CHAPTER 556 OF THE FLORIDA STATUTES).
22. ALL GRADES AND CROSS SLOPES SHALL COMPLY WITH THE LATEST AMERICANS WITH DISABILITIES ACT (A.DA) STANDARDS FOR ACCESSIBLE DESIGN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY IN THE CASE THAT A.DA REQUIREMENTS MAY NOT BE MET AS DESIGNED, SO THAT CORRECTIVE ACTION MAY BE PROVIDED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL ENSURE SUFFICIENT CROSS SLOPE TO PROVIDE ADEQUATE DRAINAGE OF THE PROPOSED FACILITIES.
23. IN ADDITION TO THE TURBIDITY AND EROSION CONTROL MEASURES SPECIFIED ON THE PLANS, BEST MANAGEMENT PRACTICES FOR EROSION AND TURBIDITY CONTROL SHALL BE UTILIZED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS, INCLUDING REGULATIONS OF THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (NWFWMD).

    U.S. ARMY CORPS OF ENGINEERS (USACOE), FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND THE NPDES PERMIT REQUIREMENT.S THESE PRACTICES SHALL INCLUDE THE USE AND MAINTENANCE OF STAKED SILT FENCE FILTER CLOTH AND OTHER SUITABLE MEANS SURROUNDING ALL CONSTRUCTION AREAS TO PREVENT EROSION AND SEDIMENTATION, AS WELL AS THE USE OF FLOATING AND/OR STAKED TURBIDITY BARRIERS WHERE APPROPRIATE TO ISOLATE CONSTRUCTION AREAS FROM ADJACENT SURFACE WATERS. THESE TURBIDITY CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS TO ENSURE THAT CONSTRUCTION GENERATED TURBIDITY IS CONTAINED WITHIN THE WORK AREAS AND THAT THE TURBIDITY CONTROL DEVICES REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETE, AND WORK AREAS HAVE BEEN STABILIZED.

24. LOCATION OF SILT FENCE AND STAKED OR FLOATING TURBIDITY BARRIERS (IF) SHOWN ON CONSTRUCTION PLANS ARE FOR GRAPHIC PURPOSES IDENTIFYING THAT EROSION CONTROL FEATURES WILL BE PRESENT. LOCATIONS OF SILT FENCE ARE APPROXIMATE AND ARE TO BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS AS DIRECTED BY THE PROJECT ENGINEER.

25. THE CONTRACTOR SHALL REVIEW ALL PERMITS, PERMIT EXEMPTIONS, AND REPORT LOGS LOCATED IN THE CONTRACT DOCUMENTS PRIOR TO BIDDING ON THE PROJECT AND BECOME FAMILIAR WITH ALL OF THE CONDITIONS OF THESE DOCUMENTS. THE CONTRACTOR SHALL VERIFY THAT THE CONSTRUCTION ACTIVITIES ARE IN COMPLIANCE WITH THESE PERMITS.
26. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE PAVEMENT SURFACE. ALL DEFICIENCIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. NO EDGE PATCHES, POTHOLE AND GOUGE PATCHES OR PARTIAL SURFACE WIDTH PATCHES SHALL BE PERMITTED IN THE FINISHED ASPHALT OR CONCRETE SURFACE OF THE PAVEMENT AND ITS AMENITIES. ALL PATCHING OF THE FINISHED SURFACE SHALL BE FULL WIDTH OF THE SURFACE BEING REPAIRED AND EXTEND AT A MINIMUM ONE (1') FOOT IN LENGTH BEYOND THE IRREGULARITY EDGES. ASPHALT PAVEMENT PATCHING SHALL RECEIVE THERMOPLASTIC STRIPING. THE COST FOR ALL WORK AND MATERIALS NECESSARY TO REPAIR THE PAVEMENT SURFACE TO ITS REQUIRED SURFACE PROFILE SHALL BE INCIDENTAL TO THE OTHER CONTRACT PAY ITEM BID COSTS WITH NO ADDITIONAL CHARGE TO THE CITY.
27. ALL STAKING OF PROPOSED CONSTRUCTION TO ALLOW FOR PROPER INSTALLATION/RELOCATION OF UTILITY FEATURES, AS MAY BE INDICATED WITHIN THESE PLANS, SHALL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER OF THE IMPACTED UTILITY AND STAKE THE ITEMS REQUESTED. THIS STAKING SHALL BE SEPARATE AND IN ADDITION TO THE NORMAL STAKING FOR THE PROJECT. THE COST OF THIS STAKING SHALL BE INCIDENTAL TO AND INCLUDED IN THE COST OF THE PROJECT.
28. EXISTING IRRIGATION LINES/SYSTEMSIN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE ADJUSTED AS NECESSARY TO RELOCATE OUTSIDE OF THE PROPOSED CONSTRUCTION AREA, COST OF WHICH SHALL BE INCIDENTAL TO THE PAYMENT OF ASSOCIATED CONSTRUCTION.

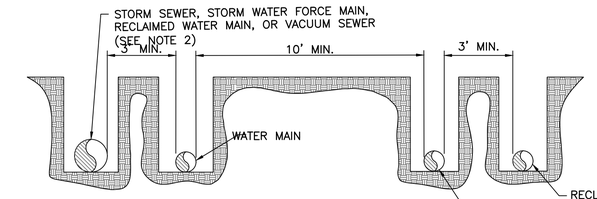


NOTE:

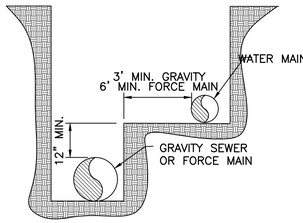
1. ALL CONCRETE PADS SHALL BE FORMED WITH WOOD, NO EXCEPTIONS.
2. CONTRACTOR SHALL PROVIDE DUCTILE IRON RISER EXTENSIONS IF NEEDED. PVC SHALL NOT BE USED FOR EXTENSIONS.

DETAIL- TYPICAL VALVE BOX & PAD

N.T.S.



HORIZONTAL SEPARATION



VERTICAL SEPARATION

HORIZONTAL SEPARATION NOTES:
(1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

(a) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

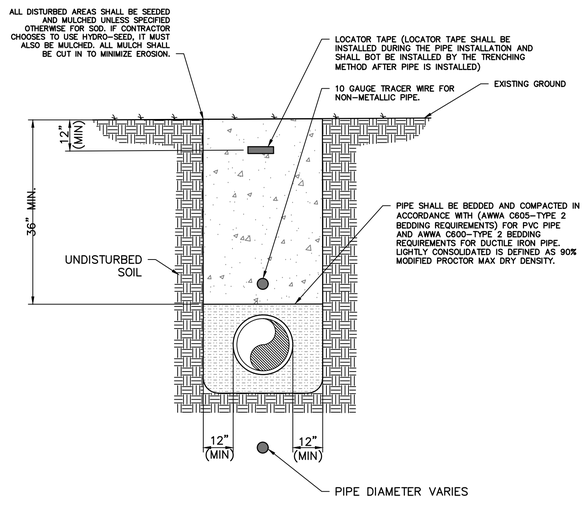
(b) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

(c) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

(d) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

DETAIL-WATER/SEWER SEPARATION

N.T.S.

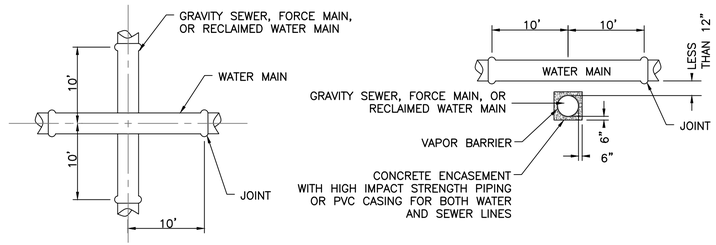


NOTE:

1. NO TRASH, RUBBISH, ROCKS OR DEBRIS WILL BE ALLOWED IN TRENCHES.
2. ALL PIPE SHALL BE INSTALLED IN DRY TRENCHES.
3. CONTRACTOR MAY BE REQUIRED BY THE ENGINEER TO WE-WATER PIPE TRENCH, IF NECESSARY.
4. AT THE ENGINEERS DISCRETION, THE CONTRACTOR SHALL SUBSTITUTE SELECT CONTRACTOR'S BID FORM.
5. THE CONTRACTOR WILL BE COMPENSATED FOR SELECT BACKFILL ONLY IF DIRECTED BY THE ENGINEER IN WRITING. THE ENGINEER MAY ISSUE A FIELD ORDER WITH WRITTEN CONFIRMATION WITHIN 24 HOURS.

DETAIL- TYPICAL PIPE BEDDING

N.T.S.



DETAIL-WATER/SEWER CROSSING

N.T.S.

VERTICAL SEPARATION NOTES:
1. VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES:

(a) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(b) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(c) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS FOSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

SEPARATION EXCEPTION NOTES:
WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THE REQUIREMENTS IN SUBSECTION (1) OR (2) ABOVE, THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THESE REQUIREMENTS IF SUPPLIERS OF WATER OR CONSTRUCTION PERMIT APPLICANTS PROVIDE TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH EXCEPTION AND PROVIDE ALTERNATIVE CONSTRUCTION FEATURES THAT AFFORD A SIMILAR LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION. ACCEPTABLE ALTERNATIVE CONSTRUCTION FEATURES INCLUDE THE FOLLOWING:

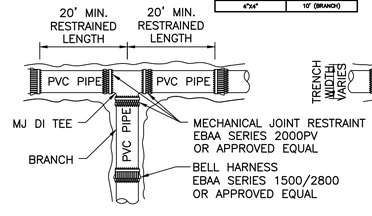
(a) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE:
1. USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-555.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY- OR VACUUM-TYPE PIPELINE;
2. USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR
3. USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.

(a) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE:
1. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND
2. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.

RESTRAINT LENGTH REQUIREMENTS FOR FITTING

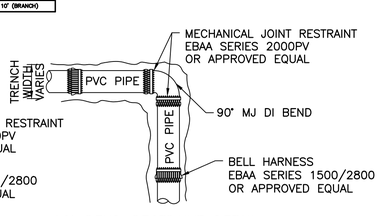
FITTING	RESTRAINT LENGTH REQUIRED 4"	RESTRAINT LENGTH REQUIRED 6"	RESTRAINT LENGTH REQUIRED 8"	RESTRAINT LENGTH REQUIRED 10"	RESTRAINT LENGTH REQUIRED 12"	RESTRAINT LENGTH REQUIRED 14"	RESTRAINT LENGTH REQUIRED 16"
11 ¼° BEND	10'	10'	10'	10'	10'	10'	10'
22 ½° BEND	10'	10'	20'	20'	20'	20'	20'
24° BEND	20'	20'	40'	40'	40'	40'	40'
90° BEND	40'	40'	40'	40'	80'	90'	100'
REDUCER	4X3 = 35'	6X4 = 35'	8X6 = 40'	10X8 = 39'	12X10 = 50'	14X12 = 50'	16X14 = 50'
45° VERTICAL OFFSET	UPPER 30' LOWER 7'	UPPER 30' LOWER 7'	UPPER 40' LOWER 9'	UPPER 48' LOWER 11'	UPPER 68' LOWER 13'	UPPER 78' LOWER 14'	UPPER 88' LOWER 16'
DEAD END	60'	60'	80'	80'	140'	190'	210'

TEE'S	RESTRAINT LENGTH
4"x4"	10' (BRANCH)
4"x4"	10' (BRANCH)



TEE RESTRAINT DETAIL

N.T.S.



90° BEND RESTRAINT DETAIL

N.T.S.

NOTES:

RESTRAINED JOINT PIPING SHALL BE USED FOR ALL THRUST RESTRAINTS. THE ADJACENT SCHEDULE GIVES MINIMUM PIPE LENGTHS (FT) TO BE RESTRAINED ON EACH SIDE OF THE STANDARD FITTINGS.

CONCRETE THRUST BLOCKS SHALL NOT BE USED, NO EXCEPTIONS.

SOME PIPE RESTRAINT REQUIREMENTS ARE SHOWN IN THE PLANS FOR SPECIFIC CIRCUMSTANCES.

ALL 45° AND 22-1/2° COMBINATION BENDS AND 22-1/2° 11-1/4° COMBINATION BENDS SHALL BE TREATED AS 90° BENDS AND 45° BENDS, RESPECTIVELY, FOR RESTRAINED LENGTHS.

ALL FITTINGS AND RESTRAINED JOINTS MUST BE VISUALLY INSPECTED AND APPROVED BY THE ENGINEER BEFORE COVERED.

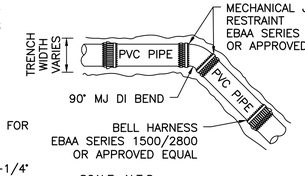
ALL VALVES SHALL BE RESTRAINED W/ EBAA SERIES 2000 MECHANICAL JOINT RESTRAINT OR APPROVED EQUAL.

BELL HARNESS RESTRAINTS SHALL BE EBAA SERIES 1500/2000 OR APPROVED EQUAL.

ALL DIRECTIONAL BORES SHALL BE RESTRAINED A MINIMUM OF 40'.

DETAIL- THRUST RESTRAINTS

N.T.S.



SCALE: N.T.S.
NOTE: 22 1/2" AND 11 1/4" BEND SHALL BE RESTRAINED THE SAME AS SHOWN ABOVE

45° BEND RESTRAINT DETAIL

N.T.S.

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
NICEVILLE, FL 32578-2425
OFFICE: (850) 678-0050
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

AVCON

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

UTILITY DETAILS (SHEET 1 OF 3)

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

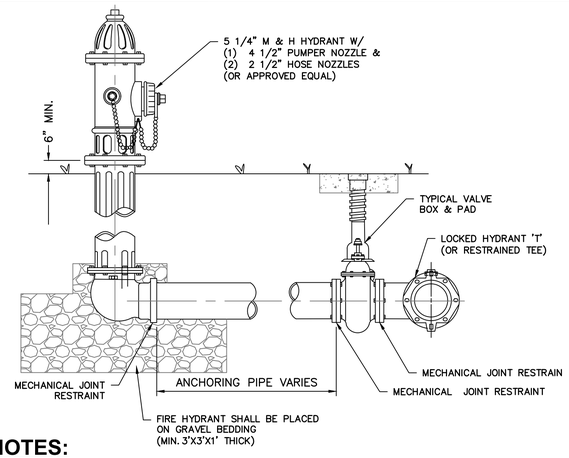
PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET

C-22

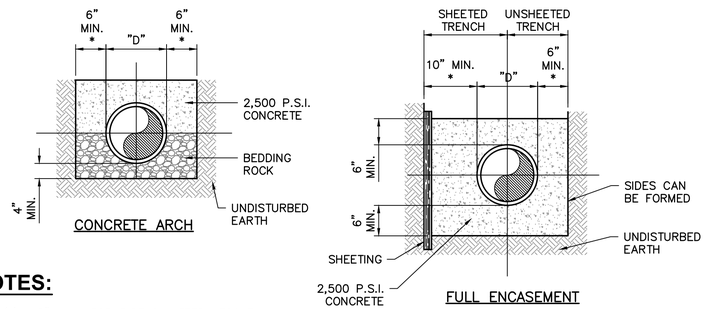


NOTES:

1.) HYDRANT SHALL BE AMERICAN DARLING, MK#73, OR APPROVED EQUAL FIRE HYDRANT SHALL BE YELLOW, WITH STAINLESS STEEL EXTERNAL NUTS AND BOLTS.
2.) VALVE OPENING IS 5 1/4".
3.) HOSE NOZZLES:
TWO (2) 2 1/2" HOSE NOZZLES
ONE (1) 4 1/2" PUMPER NOZZLE
4.) HYDRANT SHALL BE PLACED WITH NOZZLES FACING STREET.
5.) HYDRANT PLACEMENT :
CURB AND GUTTER – BEHIND SIDE AS NOTED PER PLAN.
OPEN DITCH STREET – TOP OF BACK SLOPE OF DITCH ON THE RIGHT–OF–WAY LINE.
6.) SOME FIRE HYDRANTS MAY REQUIRE RISER EXTENSIONS AT NO ADDITIONAL COST TO THE OWNER.
7.) ALL PIPE FROM MAIN TO HYDRANT SHALL BE DUCTILE IRON, NO SUBSTITUTES.
8.) SIX INCH MJ TO MAIN.
9.) GATE VALVE IS TO BE RESTRAINED TO THE MAIN TO ALLOW REMOVAL OF FIRE HYDRANT WITHOUT BLOWING THE
GATE VALVE OFF.
10.) FIRE HYDRANT TEE MAY BE USED IN LIEU OF RESTRAINED TEE.
11.) MINIMUM BURY IS 36".
12.) PROPER COMPACTION FOR BREAKAWAY WILL MEET 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY.
13.) PLASTIC BAGS SHALL BE PLACED OVER ALL HYDRANTS UNTIL THEY ARE PLACED INTO SERVICE FOR USE.

STANDARD FIRE HYDRANT ASSEMBLY

N.T.S.



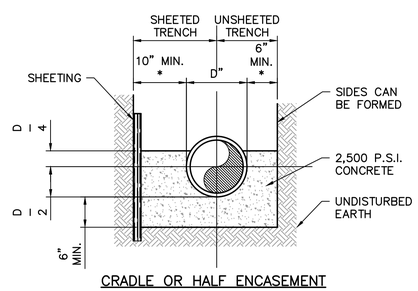
* SEE NOTE 1 (TYPICAL)

NOTES:

1.) (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIA. 24" AND OVER.

2.) "D" REFERS TO THE DIAMETER OF THE PIPE.

3.) USE OF CONCRETE ARCH HALF ENCASEMENT OR FULL ENCASEMENT TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.



CONCRETE ARCH & ENCASEMENT DETAILS

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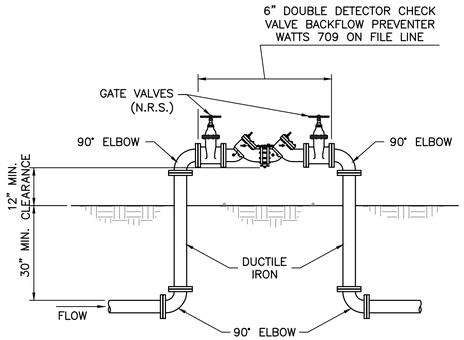
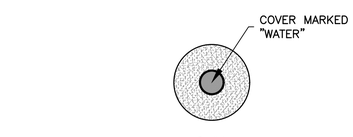


DOUBLE DETECTOR CHECK BACKFLOW PREVENTER DETAIL

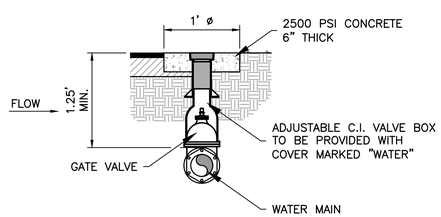
N.T.S.

GENERAL NOTES:

1. ALL FITTINGS SHALL BE CAST OR DUCTILE IRON.
2. PROVIDE THRUST BLOCKS FOR BELOW GROUND FITTINGS, SEE THRUST BLOCK DETAIL.
3. PROVIDE SUPPORTS UNDER BACKFLOW PREVENTER AS REQUIRED.
4. DOUBLE DETECTOR CHECK VALVE BACKFLOW PREVENTER FOR FIRE LINE SHALL INCLUDE A FIRE DEPARTMENT CONNECTION ON THE BACKFLOW AS REQUIRED BY AIRPORT FIRE DEPARTMENT.



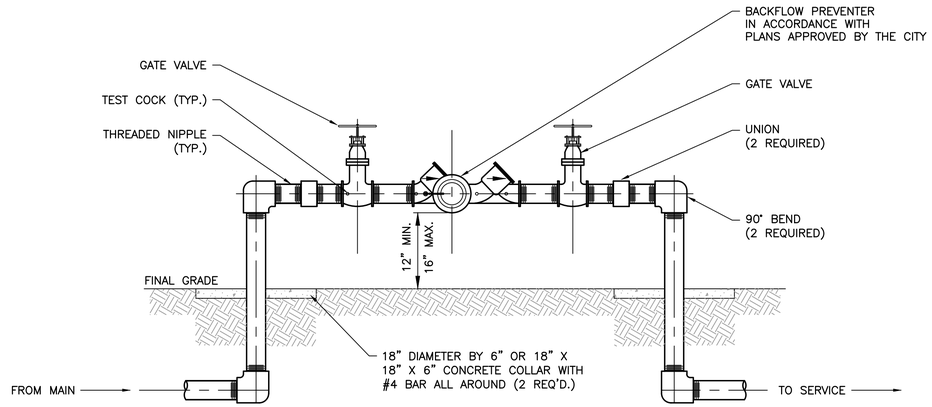
PLAN



SECTION

GATE VALVE AND VALVE BOX DETAIL

N.T.S.

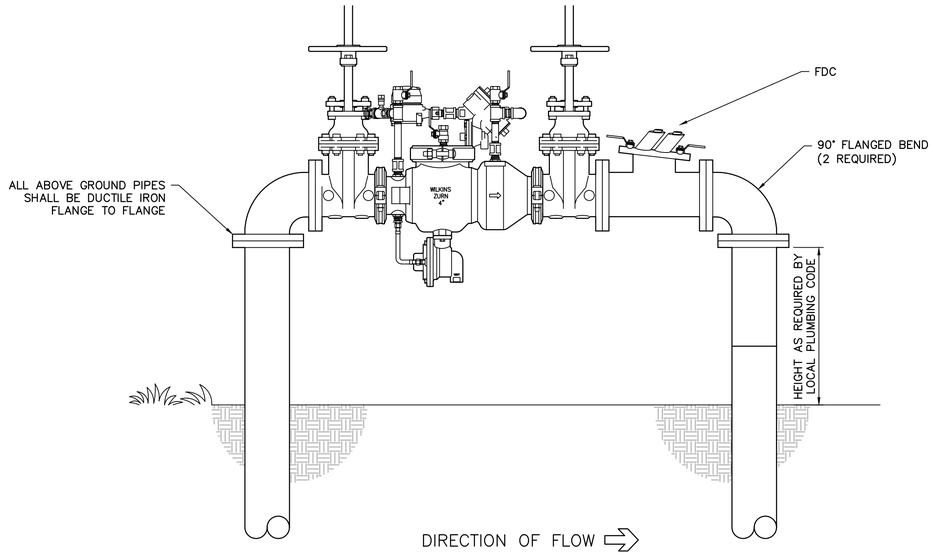


NOTES:

1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL OR BRASS.

REDUCED PRESSURE BACKFLOW PREVENTER

N.T.S.



NOTES:

1. RPZ SHALL BE WILKINS UNLESS OTHERWISE APPROVED.
2. DEVICE SHALL BE INSULATED WITH APPROVED MATERIALS.

RPZ ASSEMBLY BACKFLOW PREVENTER 3" AND UP

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

UTILITY DETAILS (SHEET 2 OF 3)

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

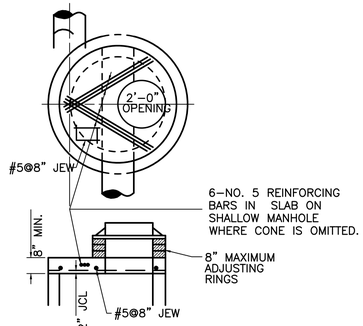
SHEET
C-23

GENERAL UTILITY NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE LOCAL UTILITY SERVICES FOR SITE UTILITY STAKE-OUT PRIOR TO BEGINNING WORK.
2. LOCATIONS OF UTILITIES SHOWN ON THIS PLAN ARE AN APPROXIMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF THE LOCATION, TYPE, DEPTH, ETC. OF ALL UTILITIES. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL UTILITIES LOCATED IN THE FIELD AND SHALL INDICATE THEM ON THE RECORD (AS-BUILT) DRAWINGS.
3. ALL METHODS AND MATERIALS OF RELOCATION, INSTALLATION, AND PROTECTION SHALL BE IN ACCORDANCE WITH INDIVIDUAL UTILITY STANDARDS. WHERE PROPOSED UTILITY INSTALLATIONS OR MODIFICATIONS CROSS EXISTING PAVEMENTS TO REMAIN.
4. ALL UTILITIES SHALL REMAIN IN PLACE AND IN SERVICE UNLESS SHOWN OTHERWISE.

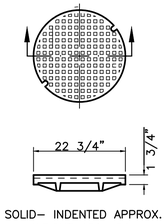
SANITARY SEWER NOTES:

1. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000 P.S.I. AT 28 DAYS.
2. PRECAST REINFORCED CONCRETE MANHOLE TOP, BASE, AND SECTIONS SHALL CONFORM TO ASTM SPECIFICATIONS C-478.
3. GROUT ALL RISER JOINTS AND ENTRY PIPES.
4. INVERT GROUTING SHALL BE UNIFORM AND SMOOTH-SLOPED TO CENTER LINE OF PIPE.
5. MINIMUM RADIUS 20".
6. USE COUPLINGS OR BELLS FOR ALL PIPES ENTERING OR EXITING M.H.
7. INSTALL 45° BEND AND EXTEND ALL SEWER SERVICE LATERALS 18" ABOVE GROUND.
8. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE ENGINEER.
9. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION.
10. MANHOLE RINGS AND FRAMES SHALL BE RATED FOR AASHTO H-20 TRAFFIC LOADINGS.



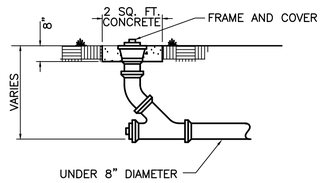
SLAB TOP FOR SHALLOW MANHOLE

N.T.S.



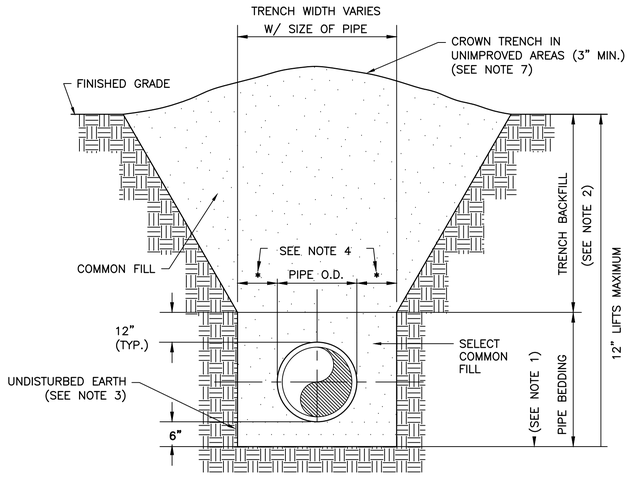
MANHOLE COVER

N.T.S.



CLEAN OUT DETAIL

N.T.S.

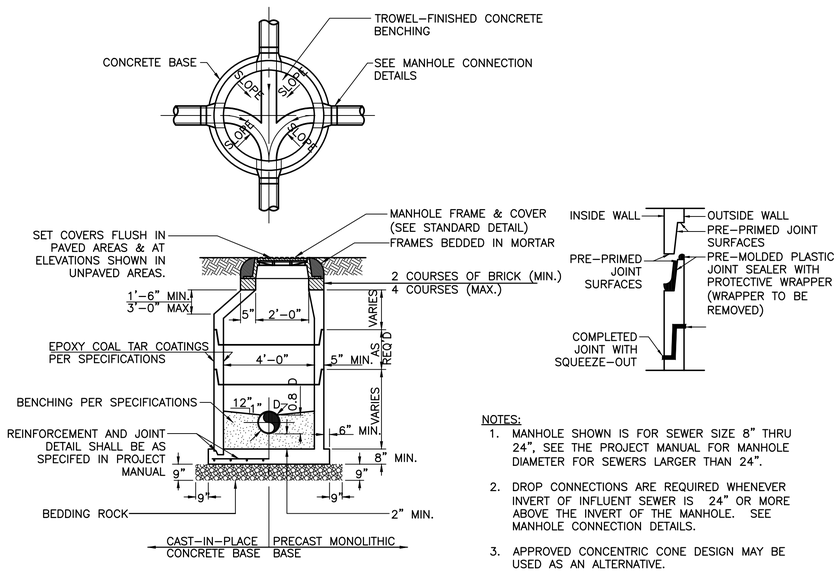


CLASS B BEDDING AND TRENCHING DETAIL

N.T.S.

NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180
2. TRENCH BACKFILL: COMPACTED PER FAA P-152.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH CLASS B BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES.

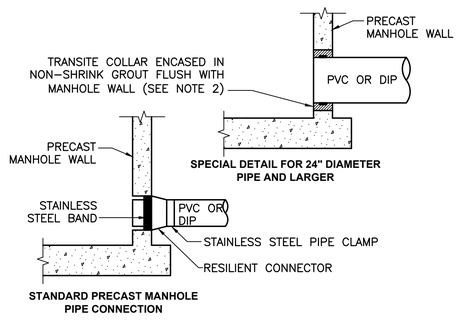


NOTES:

1. MANHOLE SHOWN IS FOR SEWER SIZE 8" THRU 24", SEE THE PROJECT MANUAL FOR MANHOLE DIAMETER FOR SEWERS LARGER THAN 24".
2. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE MANHOLE CONNECTION DETAILS.
3. APPROVED CONCENTRIC CONE DESIGN MAY BE USED AS AN ALTERNATIVE.

PRECAST CONCRETE MANHOLE PLAN AND SECTION

N.T.S.

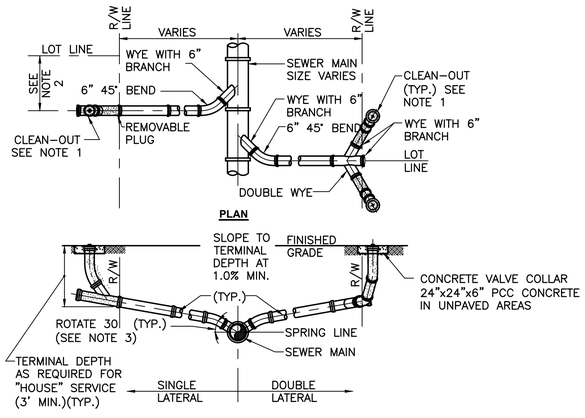


NOTES:

1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. THE COUNTY MAY APPROVE ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER.
3. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE INVERT.

MANHOLE CONNECTION DETAILS

N.T.S.



NOTES:

1. CLEAN-OUT (SHOWN SHADED) SHALL BE INSTALLED BY THE BUILDER IN ACCORDANCE WITH STANDARD PLUMBING CODE.
2. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.

SANITARY SERVICE LATERAL DETAIL

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

UTILITY DETAILS (SHEET 3 OF 3)

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET

C-24

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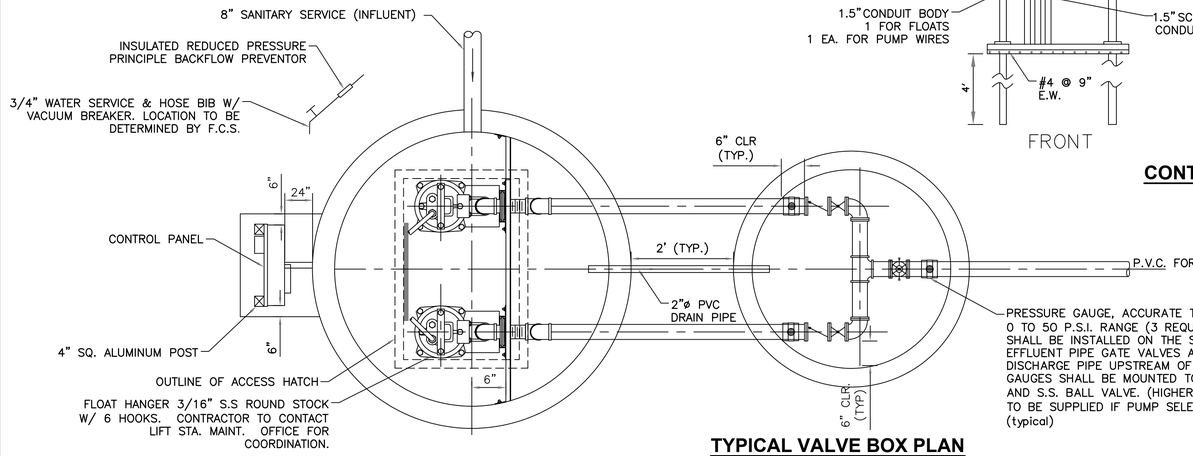
PUMPING STATION DATA	
Designation	
Pump model	BARNES ZSGV2092L
Impeller	5.67 IN DIAMETER
voltage (3 PHASE)	208 Volt
h.p.	2
r.p.m.	3450 R.P.M
Influent Size	6.00 IN
Force main	2.00 IN

PUMP STATION NOTE:

1. PUMP SHALL BE FLYGHT, KSB, ZOELLER, HYDRASERVICE, OR GRUMPHOS, PUMP STATION DATA ABOVE PROVIDED FOR PERFORMANCE CRITERIA ONLY.



TYPICAL WET WELL PLAN

N.T.S.

TYPICAL VALVE BOX PLAN

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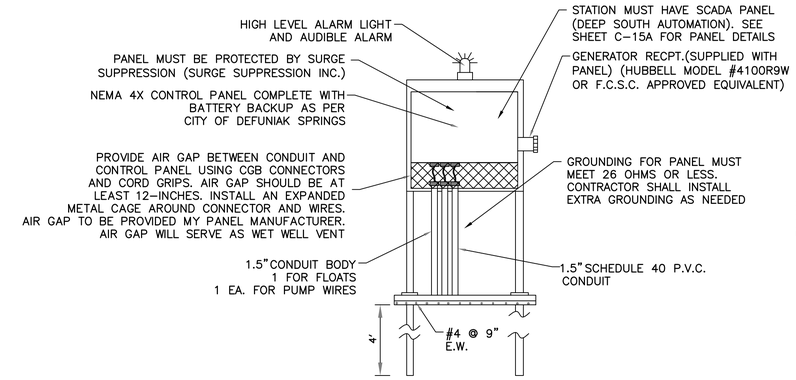
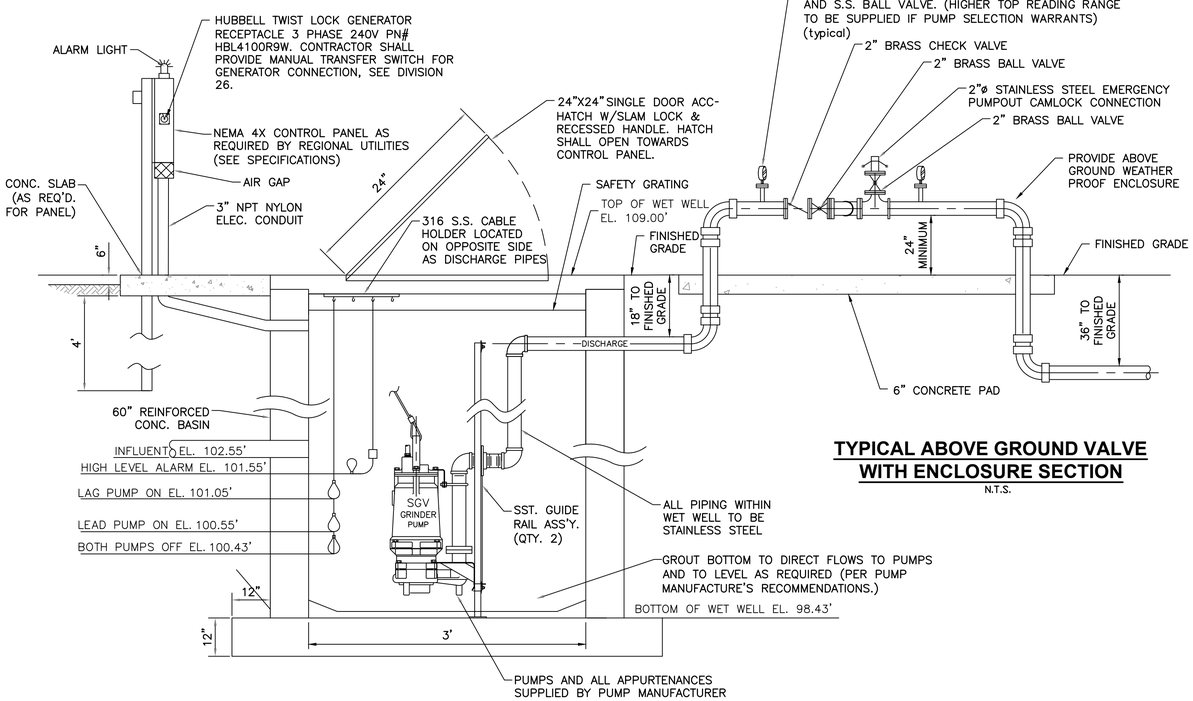


CONTROL PANEL SCHEMATIC

N.T.S.

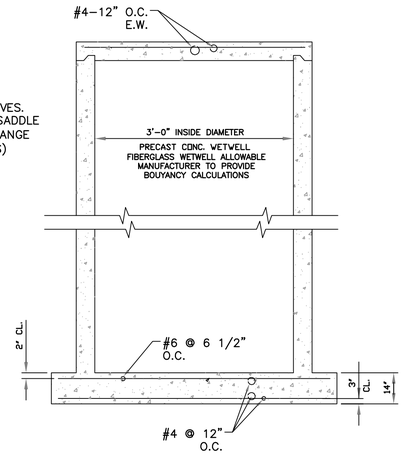


TYPICAL ABOVE GROUND VALVE WITH ENCLOSURE SECTION

N.T.S.

GRINDER LIFT STATION SECTION

N.T.S.



TOP AND BOTTOM SLAB REINFORCING GRINDER LIFT STATION

N.T.S.

GENERAL NOTES:

1. WET WELL AND VALVE VAULT SHALL BE COATED WITH KOP-COAL TAR EPOXY 300-M INSIDE AND OUT. (TWO COATS, 9MILS EACH)
2. BASE AND FIRST RISER UNIT TO BE CAT MONOLITHIC.
3. VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE.
4. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE OR NON-SHRINK.
5. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
6. WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE SIZE AS REQUIRED BY PUMP MANUFACTURE AND APPROVED BY FLORIDA COMMUNITY SERVICES.
7. FLEXIBLE COUPLING IF USED SHALL BE SLEEVE TYPE.
8. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE STAINLESS STEEL.
9. ALL ENCLOSURES SHALL BE NEMA 3R OR BETTER EXCEPT CONTROL PANEL WHICH SHALL BE NEMA 4X.
10. ALL MECHANICAL JOINT FITTINGS ON PRESSURE PIPE SHALL HAVE BOTH 'MEGALUG' TYPE JOINT RESTRAINING CLANDS AND THRUST BLOCKS.
11. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MEETING THE REQUIREMENTS OF REGIONAL UTILITIES STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.
12. ANY LOCATION WHERE PRESSURE PIPELINES CURVATURE EXCEEDS MANUFACTURES' SPECIFICATIONS; APPROPRIATE MECHANICAL JOINT FITTINGS SHALL BE USED.
13. ALL 2-INCH VALVE SHALL BE BALL TYPE- 2 - INCH GATE VALVE SHALL NOT BE USED.
14. ALL TIE IN TO EXISTING PRESSURIZED PIPELINES SHALL BE BY TAPPING SLEEVE (3 INCH TAP AND LARGER) (OR TAPPING SADDLE, 2 INCH TAP AND SMALLER) AND VALVE W/VALVE BOX.
15. DEVELOPERS OF PRIVATE PROJECTS SHALL PROVIDE ALL WETLANDS PERMITS NECESSARY FOR UTILITY CONSTRUCTIONS.
16. ALL GRINDER LIFT STATIONS LOCATED IN A PUBLIC RIGHT- OF- WAY MUST BE DESIGNED AND CONSTRUCTED OF REINFORCED CONCRETE AS PER THE SECTION TITLED 'STRUCTURAL AND OTHER NOTES' DETAILED BELOW.
17. GRINDER LIFT STATION SHALL BE EQUIPPED WITH 3 HOOKS FOR THE STATION, ONE 5 HOOK FOR THE FLOATS, AND 2 SINGLE OR 2 HOOKS FOR PUMP CABLES.
18. ALL FLOAT CONDUITS SHALL INCLUDE SWEEPS, NOT 90° ANGLES.
19. LIFT STATION AND BYPASS PUMP SHALL BE FENCED AND ROCKED INSIDE THE FENCE.
20. ALL VALVES SHALL BE AMERICAN DARLING OR MTH.

STRUCTURAL AND OTHER NOTES:

1. CONCRETE: DESIGN PER CURRENT EDITION OF A.C.I (318-83).
   CONCRETE STRENGTH @ 28 DAYS IS:
   Fc' = 3500 PSI

   CONCRETE MIX SHOULD NOT CONTAIN MORE THAN 5 GALLSONS OF WATER PER SACK OF CEMENT. AGGREGGATES SHOULD HAE LOW ABSORPTION AND SHOULD BE CLEAN, SOUND AND WELL GRADED FORM FINE TO COARSE. SAND MUST HAVE 10 TO 20 PERCENT OF PARTICLES PASSING A 50 MESH SIEVE. COASTE AGGREGATE MUST BE GRADED FROM ¼" UP TO A MAXIMUM OF 2", KEEPING THE CONCRETE CURED FOR ATLEAST 7 DAYS IS ADVISABLE. REINFORCING ASTM A-615, GRADE 60.
2. CLEAR COVER FOR BASE SLAB - 3" FOR BOTTOM BARS AND - 2" FOR TOP BARS.
3. CLEAR COVER FOR TOP SLAB - 2" FOR TOP & BOTTOM BARS.
4. CLEAN SAND BACKFILL WITH A FRICTION FACTOR OF 30° ROUND AND WEIGHING 120 PCF TO 130 PCF IS ASSUMED. THE DESIGN IS BASED ON A SUBMERGED CONDITION.
5. ALL REINFORCING SHALL BE SECURELY HELD IN POSITION WITH STANDARD ACCESSORIES DURING THE PLACING OF CONCRETE.
6. SPLICES IN REINFORCEMENT AR ENOT PERMITTED
7. IF FOTTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL, THE ENGINEER SHALL BE NOTIFIED.
8. MAXIMUM DESIGN SOIL PRESSURE ASSUMED = 2000 PSF.
9. ALL GRAVITY SEWER AND SEWER SERVICES SHALL HAVE CONCRETE ENCASEMENT WHERE COVER IS LESS THAN 30 INCHES UNDER PAVEMENT OR LESS THAN 18 INCHES IN GREEN AREAS.
10. AT ALL HIGH POINTS CREATED DURING FORCE MAIN CONSTRUCTION, AIR RELEASE VALVES SHALL BE CONSTRUCTED.
11. EXTERNAL DROP TYPE MANHOLES ARE REQUIRED WHERE MANHOLE INVERT ELEVATIONS VARY BY OVER TWO FEET.
12. MANHOLE TOPS IN GREEN AREAS SHALL BE ELEVATED TO PROHIBIT STORMWATER ENTRY.
13. SEWER SERVICES SHALL BE CONSTRUCTED AT THE LOWER SIDE OF LOTS AS MAY BE APPLICABLE.

BYPASS PUMP NOTES:

1. CONTRACTOR SHALL INSTALL A GODWIN MODEL CD80M DRI-PRIME PUMP.
2. BYPASS PUMP SHALL BE NATURAL GAS. THE CITY WILL PROVIDE GAS TO THE PUMP LOCATION.
3. PIPING FOR BYPASS PUMP MUST INCLUDE A TEE END VALVE ON THE SUCTION AND DISCHARGE LINE IN CASE THE BYPASS PUMP FAILS.
4. FLOAT CONDUIT MUST BE 2" AND INCLUDE SWEEPS INSTEAD OF 90° BENDS.
5. BYPASS PIPING SHALL BE SS (304), HDPE (DIPS), OR DUCTILE IRON.
6. BYPASS PAD MUST BE AT LEAST 6" AND FIBER CONCRETE.

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

GRINDER PUMP DETAILS

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	J.R.C.
DRAWN BY:	M.A.B.
CHECKED BY:	J.R.C.
APPROVED BY:	V.C.L.
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
C-25

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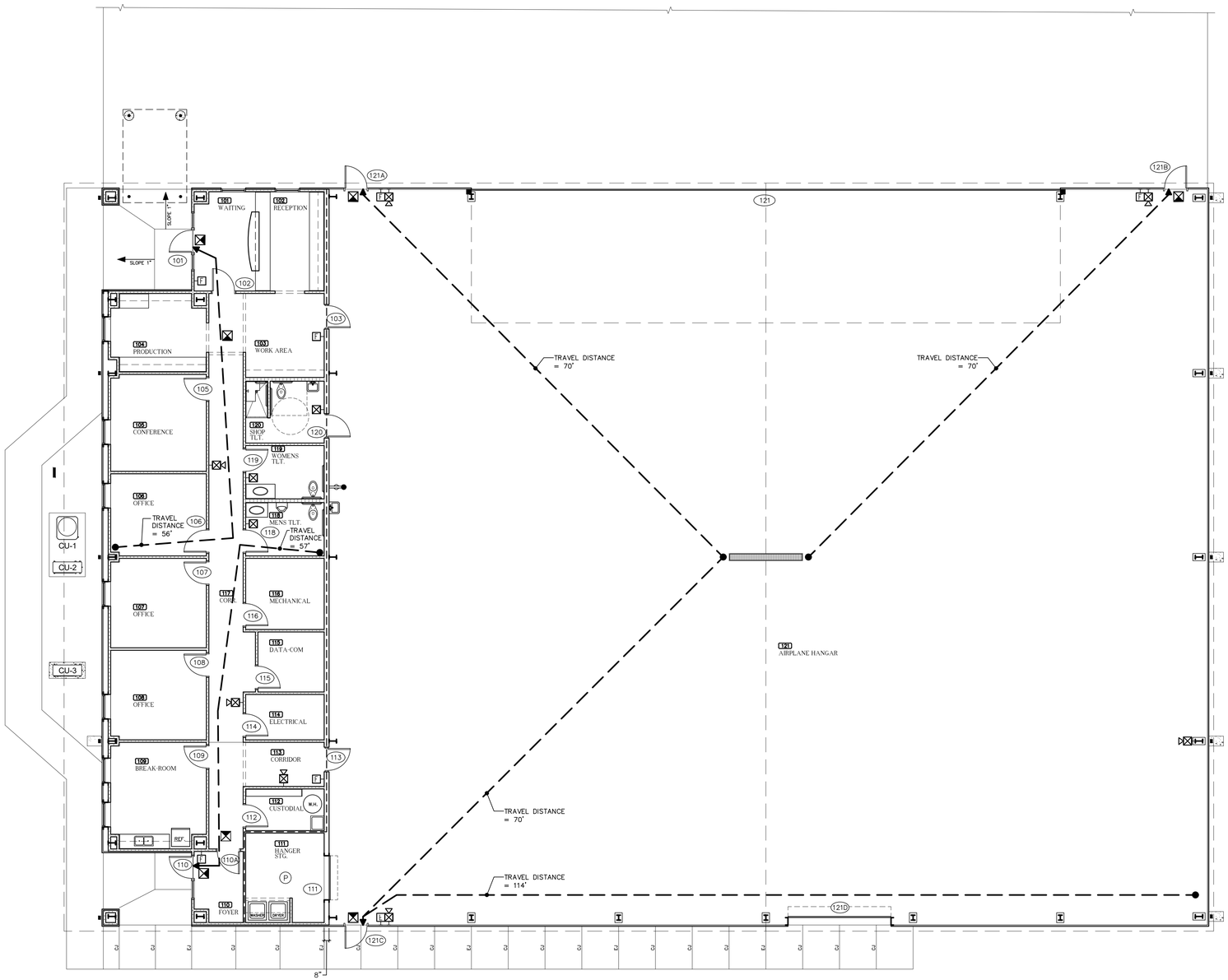

FLOOR PLAN
1/8" = 1' - 0"

FIRE ALARM LEGEND

	CLG. MTD. EMERGENCY EXIT LIGHT		WALL MTD. MANUAL PULL STATION FIRE ALARM DEVICE
	INDICATE'S MAXIMUM TRAVEL DISTANCE	P	PHOTO ELECTRIC TYPE SMOKE DETECTOR
	WALL MTD. SPEAKER / STROBE FIRE ALARM DEVICE		WALL MTD. EMERGENCY LIGHTS
	WALL MTD. STROBE FIRE ALARM DEVICE		CEILING MTD. HEAT DETECTOR
WP	WATERPROOF F.A. WALL MTD. HORN STROBE	FE	WALL MTD. FIRE EXTINGUISHER

DONOFRO ARCHITECTS

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

LIFE SAFETY PLAN
* LEGEND * NOTES

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	P.A.D.
DRAWN BY:	C.L.D.
CHECKED BY:	P.A.D.
APPROVED BY:	P.A.D.
PROJ. NO:	2022.260.03
DATE:	JANUARY 2024

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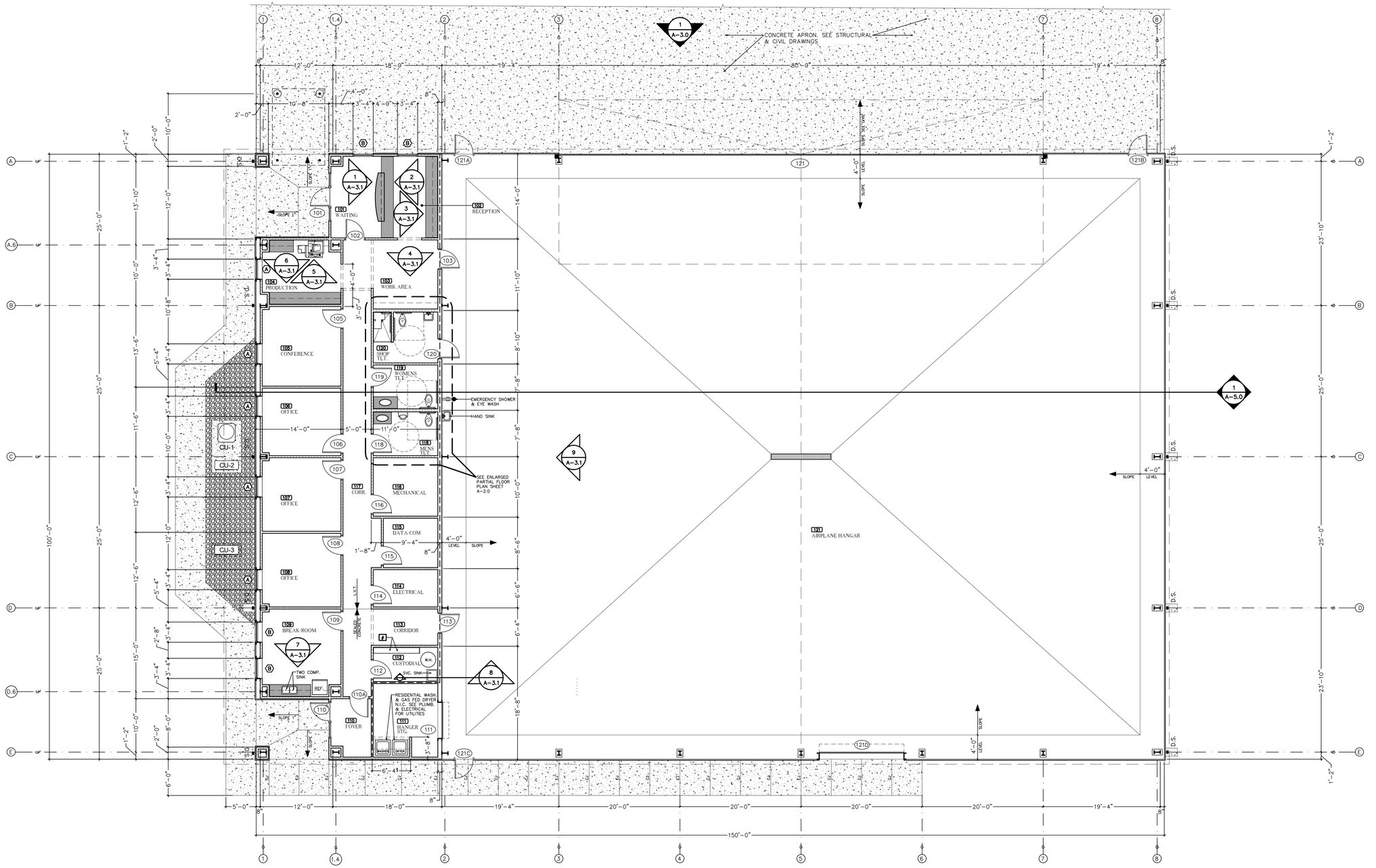

FLOOR PLAN
1/8" = 1' - 0"

FLOOR PLAN LEGEND

- ROOM FINISH SCHEDULE REFERENCE SYMBOL
- WINDOW SCHEDULE REFERENCE SYMBOL
- DOOR SCHEDULE REFERENCE SYMBOL
- STEEL COLUMN LOCATION REFERENCE SYMBOL
- GENERAL CONSTRUCTION NOTE REF. SYMBOL SEE SHEET A-1.1
- NEW REINFORCED CONC. PAD, APRON, RAMP, OR WALK
- INDICATES CFS STUD FRAMED WALL 3.5" X 20GA. @ 16" O.C. W/ 5/8" GYP. BOARD DRYWALL EA. SIDE W/ 3.5" FIBERGLASS SOUND BATTS IN BETWEEN STUDS EXTEND WALL UP 10'-0" A.F.F, U.O.N.
- INDICATES CFS STUD FRAMED WALL 36" X 20GA. @ 16" O.C. W/ 5/8" MOISTURE RESISTANT GREEN GYP. BOARD DRYWALL EA. SIDE W/ 6" FIBERGLASS SOUND BATTS IN BETWEEN STUDS EXTEND WALL UP 10'-0" A.F.F. U.O.N.
- NEW EXTERIOR WALL CONSTRUCTION SEE TRANSVERSE SECTION
- NEW FIRE WALL CONSTRUCTION
- F.E. WALL MTD. 10 LB. CAPACITY FIRE EXTINGUISHER
- HB HOSE BIB
- D.S. PRE-FIN. MTL. DOWNSPOUT AND PRE-FORMED CONC. SPLASH PAD
- EXTERIOR ELEVATION REFERENCE SYMBOL
- INTERIOR ELEVATION REFERENCE SYMBOL

DONOFRO ARCHITECTS

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FLOOR PLAN * LEGEND

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	P.A.D.
DRAWN BY:	C.L.D.
CHECKED BY:	P.A.D.
APPROVED BY:	P.A.D.
PROJ. NO:	2022.260.03
DATE:	JANUARY 2024

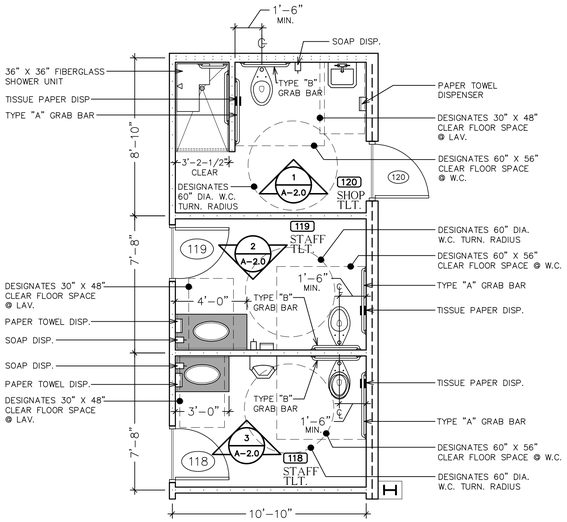
SHEET
A-1.0

ROOM FINISH SCHEDULE

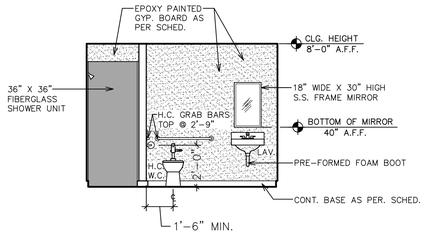
ROOM NUMBER	ROOM NAME	FLOORING: CARPET TILE	FLOORING: SOLID VINYL PLANK TILE	FLOORING: CERAMIC TILE	FLOORING: SEALED CONC.	FLOORING: NONE	BASE: CERAMIC TILE	BASE: WOOD	BASE: RUBBER	BASE: NONE	WALLS: PAINTED GYP. BOARD	WALLS: PAINTED WOOD	WALLS: EPOXY PAINTED GYPSUM BOARD	WALLS: NONE	CEILING: SUSPENDED ACOUSTICAL TILE	CEILING: ACOUSTICAL GYP. BOARD TILE	CEILING: PAINTED GYP. BOARD	CEILING: NONE			CEILING HEIGHT	REMARKS	ROOM NUMBER
101	WAITING		●						●		●				●						8'–8" A.F.F.		101
102	RECEPTION		●						●		●	●			●						8'–8" A.F.F.	PAINT. WOOD @ NORTH WALL. SEE INTERIOR EL.	102
103	WORK AREA		●						●		●				●						8'–8" A.F.F.		103
104	PRODUCTION		●						●		●				●						8'–8" A.F.F.		104
105	OFFICE	●							●		●				●						9'–0" A.F.F.		105
106	CONFERENCE	●							●		●				●						8'–8" A.F.F.		106
107	OFFICE	●							●		●				●						8'–8" A.F.F.		107
108	OFFICE	●							●		●				●						8'–8" A.F.F.		108
109	BREAK ROOM		●						●		●					●					9'–0" A.F.F.		109
110	FOYER		●						●		●				●						8'–8" A.F.F.		110
111	HANGER STORAGE				●					●	●						●				9'–0" A.F.F.		111
112	CUSTODIAL		●						●		●						●				8'–8" A.F.F.		112
113	CORRIDOR				●				●		●				●						8'–8" A.F.F.		113
114	ELECTRICAL				●				●		●						●				8'–8" A.F.F.		114
115	DATACOM		●						●		●						●				8'–8" A.F.F.		115
116	MECHANICAL				●					●	●						●				8'–8" A.F.F.		116
117	CORRIDOR				●				●		●				●						8'–8" A.F.F.		117
118	STAFF TOILET			●			●						●			●					8'–0" A.F.F.		118
119	STAFF TOILET			●			●						●			●					8'–0" A.F.F.		119
120	SHOP TOILET				●		●						●			●					8'–0" A.F.F.		120
121	AIRPLANE HANGAR				●					●				●				●					121

DOOR SCHEDULE

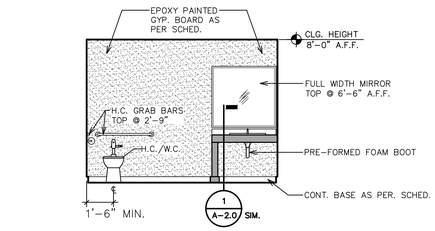
DOOR NUMBER	DOOR SIZE: WIDTH	DOOR SIZE: HEIGHT	DOOR SIZE: THICKNESS	DOOR DESCRIPTION	DOOR TYPE	FRAME DESCRIPTION	FRAME TYPE	HARDWARE: SET. NUMBER	HARDWARE: CLOSER	HARDWARE: WEATHERSTRIPPING	REMARKS	SIGNAGE: PUSH SIDE	SIGNAGE: PULL SIDE	DOOR NUMBER
101	3'–0"	7'–0"	1–¾"	ALUM. FRAME GLASS PANEL DOOR	A	ALUM. TUBE STOREFRONT	A		●					101
102	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B		●			WAITING		102
103	3'–0"	7'–0"	1–¾"	HOLLOW METAL FLUSH PANEL	C	HOLLOW METAL	B		●			HANGAR	OFFICE	103
104	NO DOOR FOR THIS NUMBER					NO DOOR FOR THIS NUMBER					NO DOOR FOR THIS NUMBER			104
105	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B							105
106	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B							106
107	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B							107
108	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B							108
109	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B					BREAK ROOM		109
110	3'–0"	7'–0"	1–¾"	ALUM. FRAME GLASS PANEL DOOR	A	ALUM. TUBE STOREFRONT	C		●					110
110A	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B		●					110A
111	6'–0"	8'–0"		STEEL ROLL UP SHOP DOOR	D							STORAGE		111
112	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	E	HOLLOW METAL	B					CUSTODIAL		112
113	3'–0"	7'–0"	1–¾"	HOLLOW METAL FLUSH PANEL	C	HOLLOW METAL	B		●			HANGAR	OFFICE	113
114	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	E	HOLLOW METAL	B					ELECTRICAL		114
115	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	E	HOLLOW METAL	B					DATA–COM		115
116	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	E	HOLLOW METAL	B					MECHANICAL		116
117	NO DOOR FOR THIS NUMBER					NO DOOR FOR THIS NUMBER					NO DOOR FOR THIS NUMBER			117
118	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	E	HOLLOW METAL	B					MENS TOILET		118
119	3'–0"	7'–0"	1–¾"	SOLID CORE WOOD FLUSH PANEL	E	HOLLOW METAL	B					WOMENS TOILET		119
120	3'–0"	7'–0"	1–¾"	HOLLOW METAL FLUSH PANEL	E	HOLLOW METAL	B						SHOP TOILET	120
121	80'–0"	18'–0"		SINGLE PANEL HYDRAULIC DOOR	F									121
121A	3'–0"	7'–0"	1–¾"	HOLLOW METAL FLUSH PANEL	E	HOLLOW METAL	B		●					121A
121B	3'–0"	7'–0"	1–¾"	HOLLOW METAL FLUSH PANEL	E	HOLLOW METAL	B		●					121B
121C	3'–0"	7'–0"	1–¾"	HOLLOW METAL FLUSH PANEL	E	HOLLOW METAL	B		●					121C
121D	14'–0"	14'–0"		ELECT. OPERATED STEEL ROLL UP SHOP DOOR	D									121D



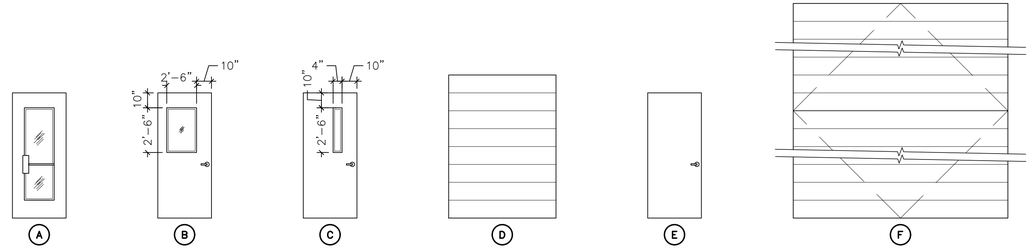
ENLARGED PARTIAL FLOOR PLAN
1/4" = 1'-0"



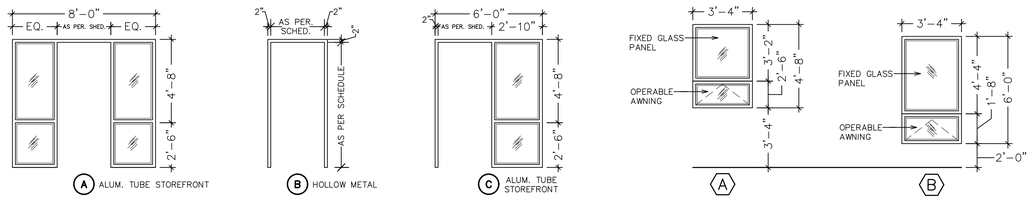
1 A–2.0 INTERIOR ELEVATION
1/4"= 1'–0"



2 A–2.0 INTERIOR ELEVATION
1/4"= 1'–0"

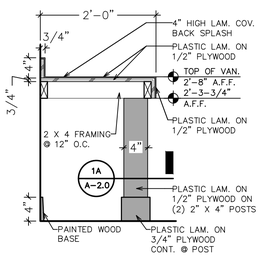


DOOR TYPES
1/4" = 1'-0"

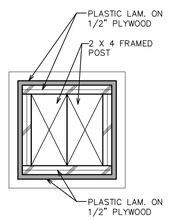


DOOR FRAME TYPES
1/4" = 1'-0"

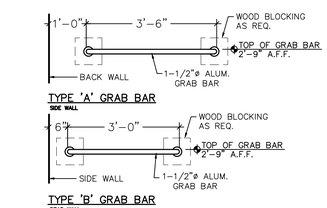
WINDOW TYPES
1/4" = 1'-0"



1 A–2.0 VANITY SECTION
1"=1'-0"

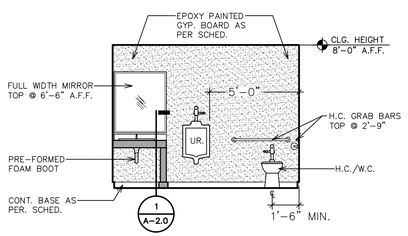


1A A–2.0 POST DETAIL
3"=1'-0"



GRAB BAR SCHEDULE
NO SCALE

NOTE:
PROVIDE WOOD BLOCKING AS REQ.



3 A–2.0 INTERIOR ELEVATION
1/4"= 1'–0"

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

ROOM FINISH & DOOR SCHEDULES DOOR & * DOOR FRAME TYPES * WINDOW TYPES * ENLARGED PARTIAL FLOOR PLANS * INTERIOR ELEVATIONS

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

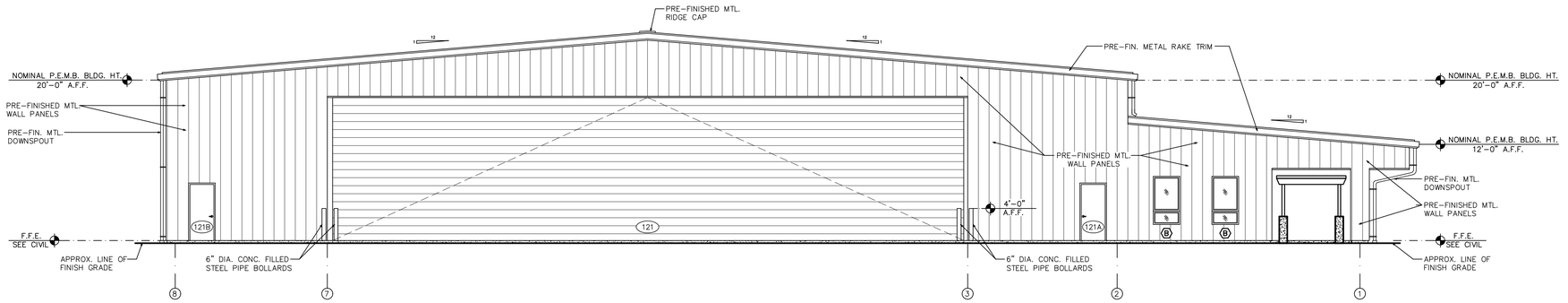
PREPARED FOR

CITY OF MARIANNA

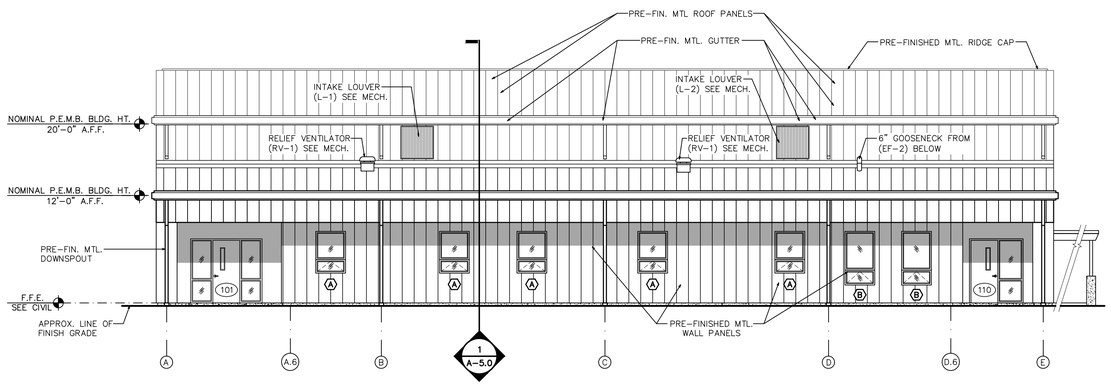
DESIGNED BY:	P.A.D.
DRAWN BY:	C.L.D.
CHECKED BY:	P.A.D.
APPROVED BY:	P.A.D.
PROJ. NO:	2022.260.03
DATE:	JANUARY 2024

DONOFRO ARCHITECTS

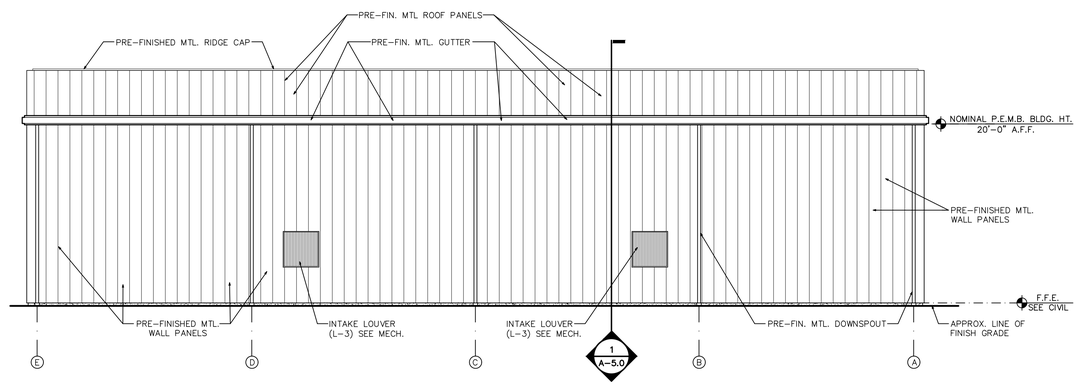
SHEET
A-2.0



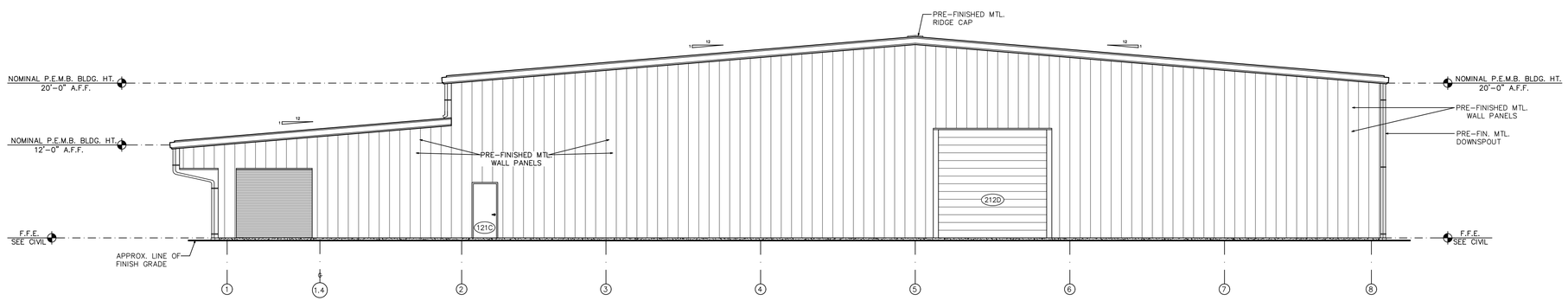
NORTH ELEVATION
4 / A-3.0
1/8" = 1'-0"



WEST ELEVATION
2 / A-3.0
1/8" = 1'-0"



EAST ELEVATION
3 / A-3.0
1/8" = 1'-0"



SOUTH ELEVATION
4 / A-3.0
1/8" = 1'-0"

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

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EXTERIOR ELEVATIONS

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	P.A.D.
DRAWN BY:	C.L.D.
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APPROVED BY:	P.A.D.
PROJ. NO:	2022.260.03
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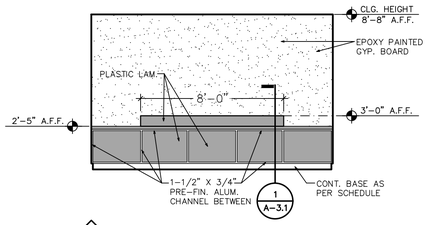
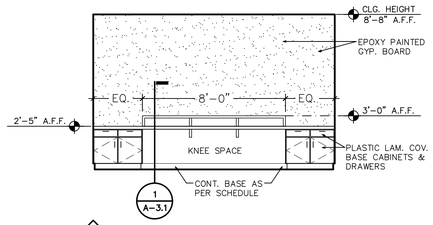
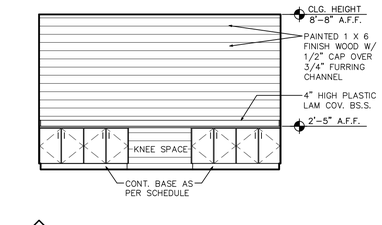
SHEET
A-3.0



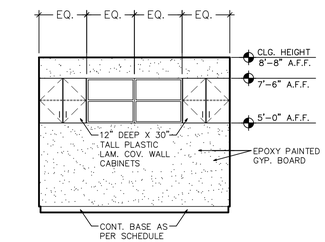
1 A-3.1 INTERIOR ELEVATION
1/4"= 1'-0"



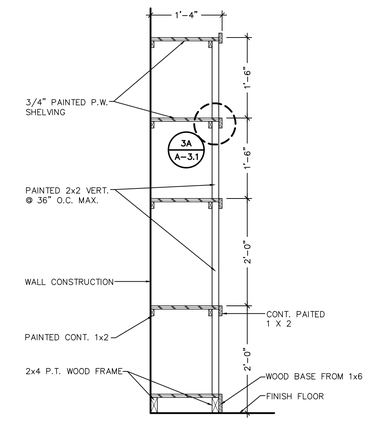
2 A-3.1 INTERIOR ELEVATION
1/4"= 1'-0"



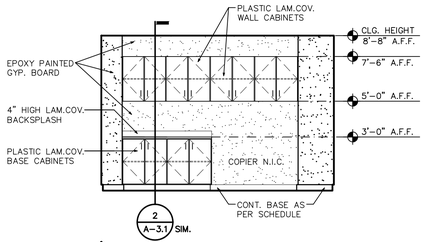
3 A-3.1 INTERIOR ELEVATION
1/4"= 1'-0"



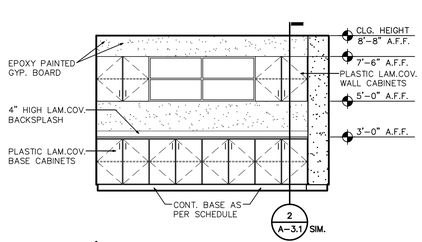
4 A-3.1 INTERIOR ELEVATION
1/4"= 1'-0"



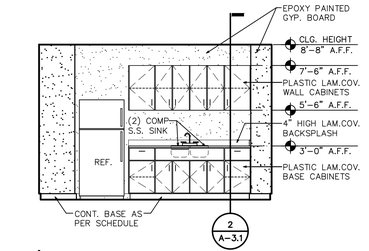
3 A-3.1 WOOD SHELF SECTION
3/4"= 1'-0"



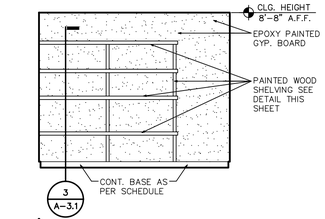
5 A-3.1 INTERIOR ELEVATION
1/4"= 1'-0"



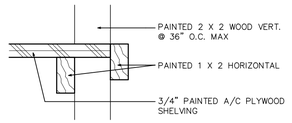
6 A-3.1 INTERIOR ELEVATION
1/4"= 1'-0"



7 A-3.1 INTERIOR ELEVATION
1/4"= 1'-0"

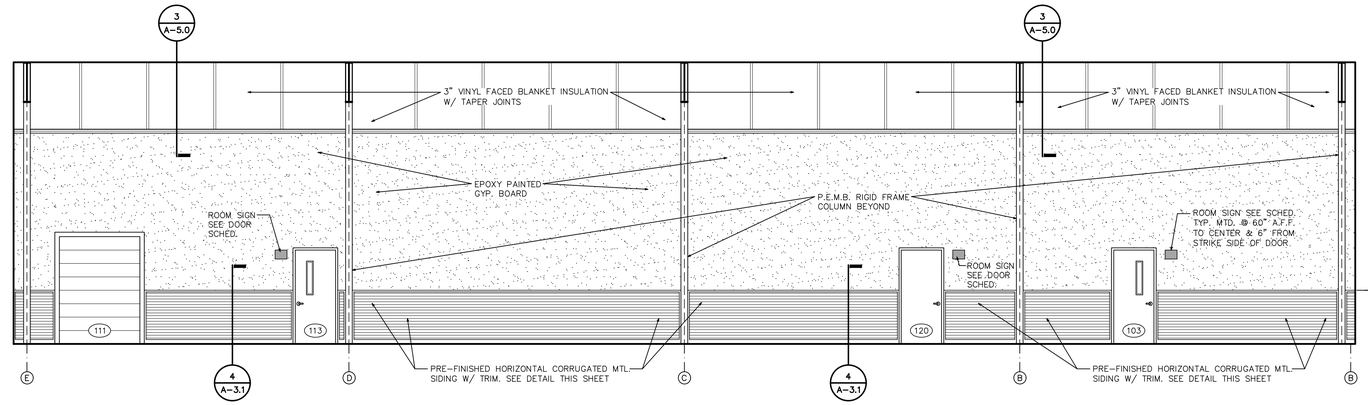


3 A-3.1 INTERIOR ELEVATION
1/4"= 1'-0"

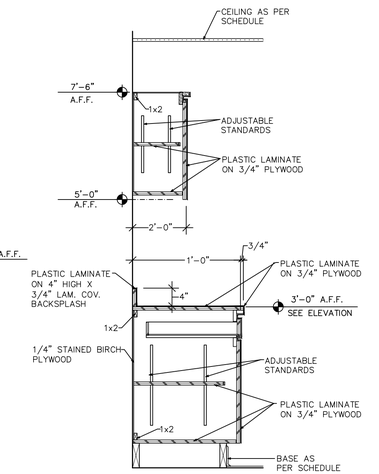


3A A-3.1 WOOD SHELF SECTION
1/4"= 1'-0"

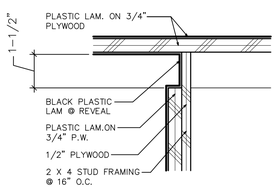
4 A-3.1 WALL SECTION
1" = 1'-0"



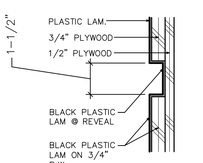
9 A-3.1 INTERIOR ELEVATION
3/16"= 1'-0"



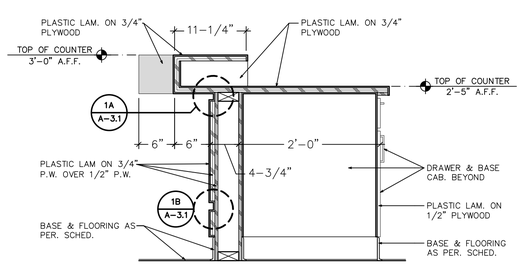
2 A-3.1 BASE/ WALL CAB. SECTION
3/4"= 1'-0"



1A A-3.1 DETAIL
3" = 1'-0"



1B A-3.1 DETAIL
3" = 1'-0"



1 A-3.1 COUNTER SECTION
1" = 1'-0"

DONOFRO ARCHITECTS

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

NO.	DATE	REVISION	BY

* INTERIOR ELEVATIONS
* DETAILS * SECTIONS

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	P.A.D.
DRAWN BY:	C.L.D.
CHECKED BY:	P.A.D.
APPROVED BY:	P.A.D.
PROJ. NO:	2022.260.03
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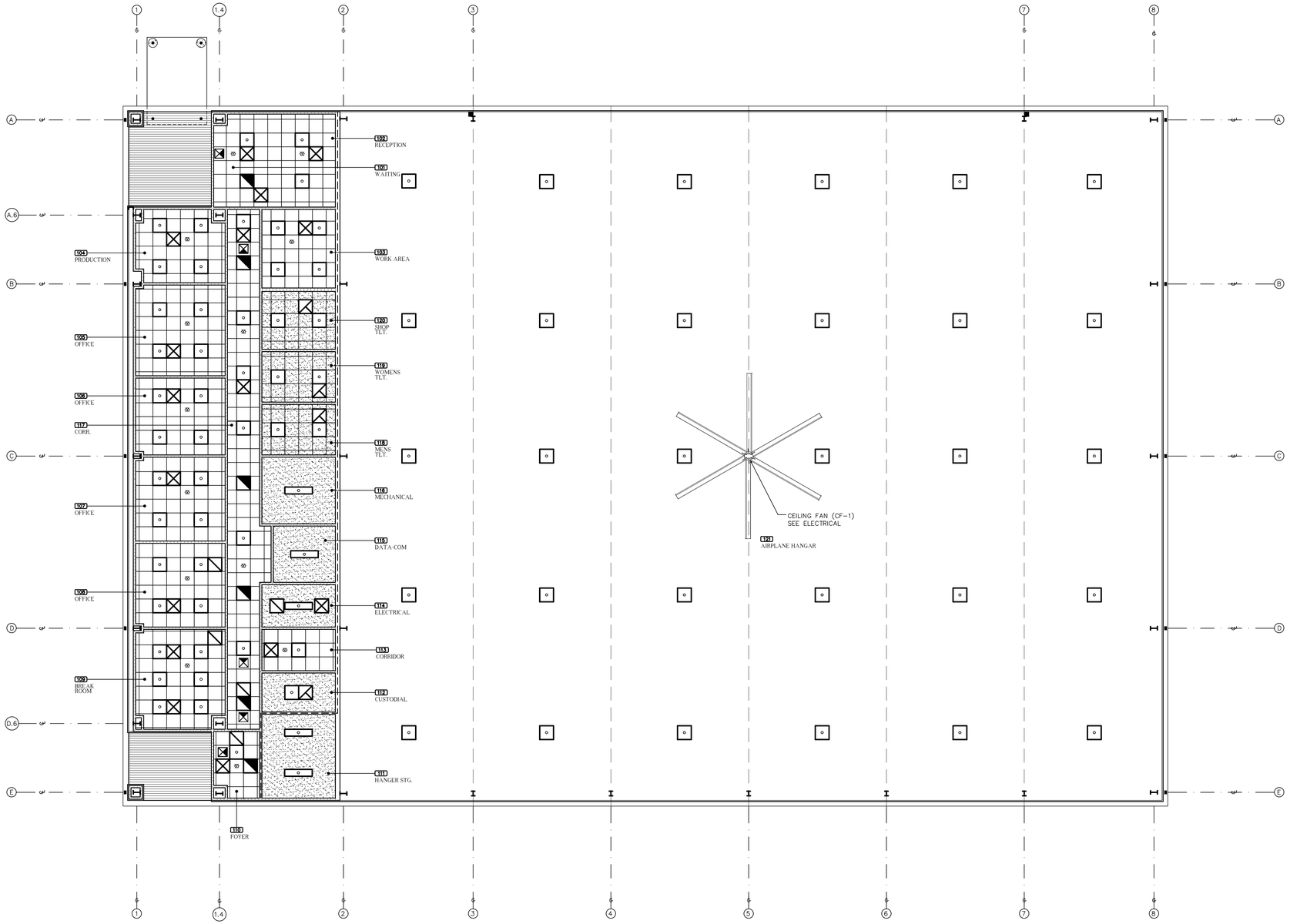
SHEET
A-3.1



REFLECTED CEILING PLAN
1/8" = 1' - 0"

REFLECTED CEILING PLAN LEGEND

- LIGHT FIXTURE, SEE ELECTRICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- CLG. MTD. DIRECTIONAL EMERGENCY EXIT LIGHT. SEE ELECTRICAL
- CLG. MTD. OCCUPANCY/VACANCY SENSOR. SEE ELECTRICAL
- HVAC DIFFUSERS, SEE HVAC PLAN
- RETURN AIR, SEE HVAC PLAN
- EXHAUST FAN, SEE HVAC PLAN
- PAINTED GYP. BOARD
- INDICATE'S NEW SUSPENDED CEILING SYSTEM
- INDICATE'S NEW SUSPENDED VINYL GYP. BOARD TILE

DONOFRO ARCHITECTS

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REFLECTED CEILING PLAN * LEGEND

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS
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DESIGNED BY:	P.A.D.
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PROJ. NO:	2022.260.03
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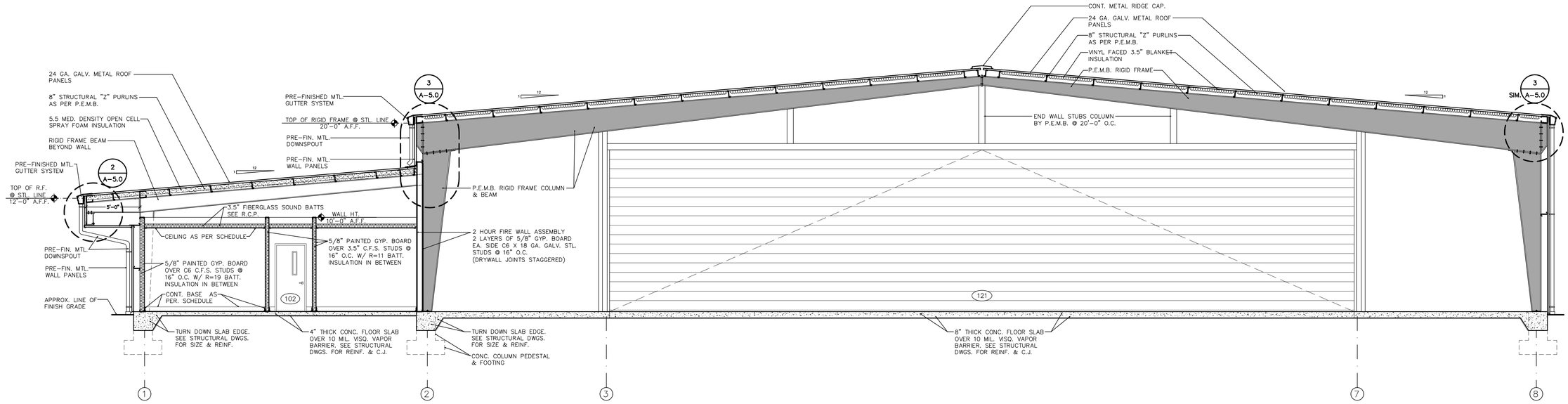
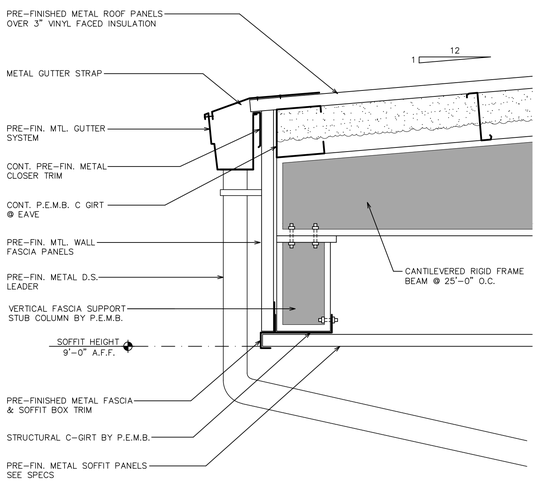
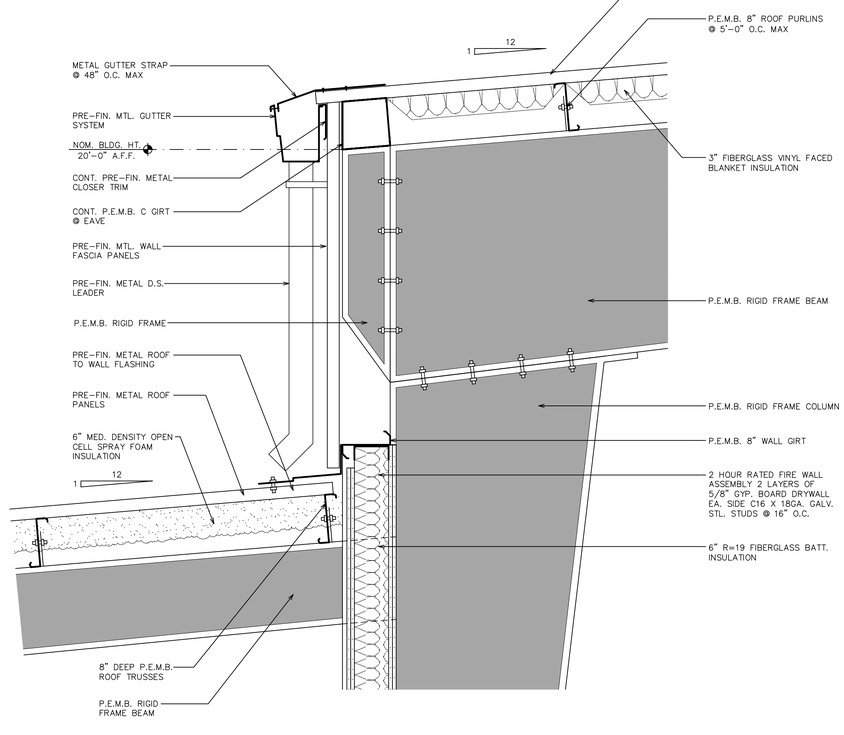
SHEET
A-4.0



1 A-5.0 TRANSVERSE SECTION
3/16" = 1'-0"



2 A-5.0 DETAIL
1" = 1'-0"



3 A-5.0 DETAIL
1" = 1'-0"

DONOFRO ARCHITECTS

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* TRANSVERSE SECTION DETAILS

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CITY OF MARIANNA

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PROJ. NO:	2022.260.03
DATE:	JANUARY 2024

SHEET
A-5.0

GENERAL

1. ALL STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM STANDARDS:

   FLORIDA BUILDING CODE 2020:
   A. REGULATIONS IN ACCORDANCE WITH THE LOCAL JURISDICTION.

   B. SIGNED AND SEALED PROJECT CONTRACT DOCUMENTS (INCLUDING SIGNED AND SEALED DRAWINGS BY DELEGATED ENGINEERS AND THE GEOTECHNICAL REPORT) AND LATEST ADDENDA. CONTRACT DOCUMENTS DO NOT INCLUDE SHOP DRAWINGS AND OTHER UNSEALED SUBMITTAL DOCUMENTS.

2. THE REFERENCE OF "GENERAL CONTRACTOR" WITHIN THE STRUCTURAL GENERAL NOTES INCLUDES BUT IS NOT LIMITED TO SUBCONTRACTORS, ERECTORS, FABRICATORS, MATERIAL SUPPLIERS AND/OR INDIVIDUALS PERFORMING THE WORK.

3. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. REFER TO THESE DRAWINGS FOR DIMENSIONS, EMBEDDED ITEMS, AND OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL REVIEW THE DRAWINGS OF ALL DISCIPLINES AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OF RECORD AND STRUCTURAL ENGINEER OF RECORD IN WRITING PRIOR TO SECURING MATERIALS, FABRICATING, OR COMMENCING WORK. THE MORE STRINGENT REQUIREMENTS SHALL GOVERN UNLESS OTHERWISE STATED IN WRITING BY THE ARCHITECT OF RECORD AND STRUCTURAL ENGINEER OF RECORD.

4. DO NOT SCALE DRAWINGS.

5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS PRIOR TO SECURING MATERIALS, FABRICATING, OR COMMENCING WORK.

6. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD.

7. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER ITS CONSTRUCTION IS COMPLETE. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND THEY DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS TO ENSURE STABILITY AND SAFEKEEPING OF THE STRUCTURE AND ITS COMPONENTS DURING CONSTRUCTION AS PER THE MOST RECENT PRINTING/ERRATA OF ASCE 37-14 'DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION'. THE ENGINEER DOES NOT HAVE CONTROL OF, AND SHALL NOT BE RESPONSIBLE FOR: CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY PRECAUTIONS, SAFETY PROGRAMS IN CONNECTION WITH THE WORK, OMISSIONS BY THE GENERAL CONTRACTOR, OR THE FAILURE OF THE GENERAL CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

8. DETAILS LABELED "TYPICAL" 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 PLANS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DIRECTED TO THE STRUCTURAL ENGINEER OF RECORD.

9. PERIODIC, LIMITED, SITE OBSERVATION BY FIELD REPRESENTATIVES OF AVCON, INC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE CONTRACTOR'S WORK IS PROCEEDING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SITE OBSERVATIONS SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS CHECKS OF THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER AS PERIODIC SPOT CHECKS OF READILY APPARENT DEFECTS OR DEFICIENCIES IN THE WORK. LIMITED SITE VISITS BY THE ENGINEER OF RECORD DO NOT RELIEVE OR TAKE THE PLACE OF SCHEDULED TESTING AND INSPECTIONS BY AUTHORIZED AGENT OR INSPECTOR.

10. THE USE OF REPRODUCTION OF THESE CONTRACT DOCUMENTS AND/OR USE OF CAD FILES BY THE GENERAL CONTRACTOR IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFY HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR.

11. STRUCTURAL WORK SHALL BE INSPECTED BY QUALIFIED INSPECTORS. FIELD INSPECTION REPORTS SHALL BE FILED WITH THE STRUCTURAL ENGINEER OF RECORD WITHIN 5 DAYS OF TIME OF ACTUAL INSPECTION.

12. SUBSTITUTIONS IN ITEMS (PRODUCTS, MATERIALS, EQUIPMENT, AND INSTRUCTIONS) WITHIN THE CONTRACT DOCUMENTS FOR ANY REASON SHALL BE APPROVED BY THE ARCHITECT OF RECORD AND STRUCTURAL ENGINEER OF RECORD PRIOR TO SECURING MATERIALS, FABRICATING, OR COMMENCING WORK. THE CONTRACTOR SHALL SUBMIT REQUEST FOR SUBSTITUTION IN WRITING TO THE STRUCTURAL ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY OF NEED AND 15 DAYS PRIOR TO INITIAL LEAD TIME DATE. THE SUBSTITUTION REQUEST SHALL BE SIGNED/DATED AND INCLUDE, AT MINIMUM, THE FOLLOWING:

    A. THE ITEM TO BE SUBSITUTED WITH CLEAR REFERENCE TO THE INTENDED USE IN THE STRUCTURAL SPECIFICATIONS AND DRAWINGS

    B. REASONS FOR SUBSTITUTION INCLUDING CHANGES TO CONTRACT COST AND SCHEDULE

    C. MANUFACTURER TECHNICAL PRODUCT DATA SHEETS, TEST REPORTS FOR THE SUBSTITUTION ITEM

    D. A STATEMENT OF ITEM'S COMPLIANCE WITH THE FLORIDA BUILDING CODE

    E. A STATEMENT OF ITEM'S COMPATIBILITY WITH OTHER PORTIONS OF WORK

CAST-IN-PLACE CONCRETE

1. ALL CAST-IN-PLACE CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT PRINTING/ERRATA OF ACI 318-14 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE' AND ACI 301-10 'SPECIFICATION FOR STRUCTURAL CONCRETE'.

2. STRUCTURAL CONCRETE MIX DESIGNS SHALL BE AN APPROVED COMMERCIAL MIX OF PLASTIC AND WORKABLE CONSISTENCY AT TIME OF PLACEMENT CONFORMING TO THE MINIMUM REQUIREMENTS PER THE CONCRETE MIX DESIGN SCHEDULE.

3. SUBMIT MIX DESIGN FOR ENGINEER'S APPROVAL FOR EACH CLASS WITH SPECIFIC LOCATION OF PLACEMENT INDICATED NO LATER THAN TWO WEEKS PRIOR TO SECURING CONCRETE MATERIALS. EACH MIX DESIGN SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER ACI 301. ALL MIXES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C33 FOR COURSE AGGREGATE, UNO.

4. CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE BATCH TICKET SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.

5. PLACE AND CURE CONCRETE IN ACCORDANCE WITH ACI STANDARDS AND SPECIFICATIONS. DISCARD CONCRETE EXCEEDING 1-1/2 HOURS FROM THE TIME THE MIXING WATER IS ADDED AT THE BATCH PLANT UNTIL THE CONCRETE IS DEPOSITED IN ITS FINAL POSITION.

6. A CERTIFIED TESTING AGENT SHALL PERFORM INDUSTRY STANDARD TESTS SUCH AS BUT NOT LIMITED TO SLUMP, CYLINDER AND PRISM COMPRESSIVE BREAKS, UNIT WEIGHT, ETC. SLUMP TEST SAMPLES SHALL BE TAKEN AT DISCHARGE POINTS OF CONCRETE PER ASTM C143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." WHERE NOT SPECIFIED IN THE SPECIFICATIONS, COLLECT AND TEST 4 CYLINDER SETS FOR EACH COMPRESSIVE STRENGTH TEST IN CONFORMANCE WITH ASTM C39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." EACH SET OF CYLINDERS CONSIST OF ONE FIELD-CURED SET OF CYLINDERS AND ONE LABORATORY-CURED SET OF CYLINDERS. TESTS SHALL BE CONDUCTED FOR EACH CLASS AND EACH DAY PLACED AT A FREQUENCY OF EVERY 50 CUBIC YARDS. BREAK ONE SET OF CYLINDERS AT 7 DAYS, 1 SET AT 28 DAYS, AND HOLD 2 SETS IN RESERVE. BREAK RESERVE CYLINDERS AS DIRECT BY ENGINEER. AGENT SHALL SUBMIT REPORTS TO THE ENGINEER WITHIN FIVE WORKING DAYS OF TEST RESULTS.

7. CONTRACTOR SHALL COORDINATE ALL TRADES FOR INSTALLATION OF ALL BUILT-IN WORK, SLEEVES, INSERTS, ETC. AS REQUIRED FOR THE COMPLETION OF CONSTRUCTION.

8. ALL CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE SHALL BE 3/4" CHAMFER, UNO.

7. ALL STRUCTURAL SLABS AND FLAT HORIZONTAL SURFACES TO REMAIN EXPOSED TO WEATHER THROUGHOUT ITS LIFETIME SHALL BE TREATED WITH A CLEAR NON-FLAMMABLE PENETRATING SILANE SEALER. PREPARE CONCRETE SURFACES AND APPLY SEALER IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

8. REINFORCING STEEL: REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BARS AND WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI MANUAL OF STANDARD PRACTICE AND THE PROJECT SPECIFICATIONS. SUBMIT REINFORCING SHOP DRAWINGS AND OBTAIN ENGINEER'S APPROVAL PRIOR TO SECURING MATERIAL AND COMMENCING FABRICATION. SEE THE CONCRETE SCHEDULE(S) FOR ALL REQUIRED INFORMATION TO BE SHOWN ON THE BEAM REINFORCING ERECTION SHOP DRAWING SUBMITTAL.

9. PROVIDE CONCRETE COVER OVER REINFORCEMENT PER THE CONCRETE COVER SCHEDULE, UNO.

10. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS. TOP BARS AT EXPOSED AREAS SUCH AS BALCONIES, WALKWAYS AND AS SPECIFICALLY SHOWN ON PLAN SHALL BE EPOXY COATED ACCORDING TO ASTM A775.

11. PROVIDE 48xBAR DIAMETER FOR ALL LAP SPLICES IN FOUNDATIONS AND WHERE SPECIFIED ELSEWHERE IN THE PLANS. LAP WELDED WIRE FABRIC SHEETS WITH ONE SPACE PLUS TWO INCHES.

12. PROVIDE CONTINUOUS REINFORCING OR STAGGER SPLICES WHERE POSSIBLE. DO NOT EXCEED 3" CENTER-TO-CENTER BAR SPACING OF SPLICED REINFORCING AND LOCATE SPLICE REINFORCING IN THE SAME PLANE WITH RESPECT TO THE CONCRETE ELEMENT'S CLEAR CONCRETE SURFACE.

BAR SIZE	3000 PSI	4,000 PSI AND GREATER
A. #6 AND SMALLER	58xBAR DIA	48xBAR DIA
B. #7 AND GREATER	72xBAR DIA	62xBAR DIA

CONCRETE MIX DESIGN SCHEDULE:

LOCATION	28-DAY STRENGTH	SLUMP	AGGREGATE SIZE
SLAB-ON-GRADE	3000	4" ± 1"	3/4"
FOOTINGS	3000	4" ± 1"	3/4"

CONCRETE COVER SCHEDULE:

LOCATION	COVER
SLAB-ON-GRADE	1 1/2"
FOOTINGS	3"

SUBMITTALS

1. THE GENERAL CONTRACTOR SUBMITTALS FOR ENGINEER REVIEW ARE AS FOLLOWS:

   A. PRE-ENGINEERED METAL BUILDING (#)
   B. PRE-ENGINEERED HANGAR DOOR (#)
   C. CONCRETE MIX DESIGNS
   D. REINFORCING STEEL
   E. CHEMICAL ADHESIVE ANCHORS

      a. ITEMS MARKED (*) SHALL REQUIRE SUBMITTAL OF SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION AND SIGNED AND SEALED BY A PROFESSIONAL DELEGATED ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR ENGINEER OF RECORD'S REVIEW. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

      b. ITEMS MARKED (#) SHALL REQUIRE SUBMITTAL OF SHOP DRAWINGS AND CALCULATIONS PREPARED UNDER THE DIRECT SUPERVISION AND SIGNED AND SEALED BY A PROFESSIONAL DELEGATED ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR ENGINEER OF RECORD'S REVIEW.

      c. ENGINEER OF RECORD REVIEW OF SUBMITTALS MARKED (*) OR (#) WILL NOT BEGIN UNTIL THE SUBMITTAL IS SIGNED AND SEALED BY THE DELEGATED PROFESSIONAL.

2. THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

3. SUBMITTALS SHALL CLEARLY IDENTIFY THE PROJECT NAME, SPECIFIC PRODUCT UTILIZED, APPLICABLE CODES, DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. HAND-WRITTEN COMMENTS AND/OR MARKINGS ON THE SUBMITTALS BY THE CONTRACTOR SHALL BE MADE USING A GREEN COLOR PEN AND THE ENGINEER/ARCHITECT SHALL UTILIZE A RED COLOR PEN.

4. SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR FOR FULL COORDINATION OF ALL CONSTRUCTION TRADES WITH THE LATEST DESIGN DISCIPLINES DOCUMENTS, REVISIONS/CLARIFICATIONS, AND RESPONSES TO RFIs. SHOP DRAWINGS SHALL BE MARKED BY THE GENERAL CONTRACTOR "APPROVED" PRIOR TO SUBMITTING TO THE OWNER, ARCHITECT OF RECORD, OR ENGINEER OF RECORD. GENERAL CONTRACTOR-GENERATED QUESTIONS OR REQUESTS FOR INFORMATION WITHIN THE SUBMITTALS SHALL BE CLEARLY MARKED. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER REVIEW WILL BE LIMITED TO ONLY THOSE ITEMS CAUSING THE RE-SUBMITTAL.

5. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS AND PRODUCTS FUNCTIONAL EQUIVALENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC.

6. NON-CONFORMING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. ARCHITECT/ENGINEER WILL NOT BE RESPONSIBLE FOR SCHEDULE DELAYS CAUSED BY RETURNED SUBMITTALS THAT FAILED TO MEET THE AFOREMENTIONED CRITERIA.

PRE-ENGINEERED METAL BUILDING

1. THE PRE-ENGINEERED METAL BUILDING (PEMB) SHALL CONSIST OF ROOF DECK, RIGID FRAMES, METAL WALL PANELS ON FRAMING, CANOPY FRAMING, GUTTERS AND DOWNSPOUTS, AND FLASHING. DEVIATION FROM BAY SPACING SHOWN ON THE PLANS SHALL NOT BE PERMITTED TO SUIT MANUFACTURER'S STANDARDS. THE PEMB MANUFACTURER SHALL BE A MEMBER OF THE METAL BUILDING MANUFACTURER'S ASSOCIATION (MBMA).

2. THE SYSTEM SHALL BE DESIGNED AND DETAILED BY THE MANUFACTURER TO SUSTAIN THE DESIGN LOADS SPECIFIED IN 'DESIGN LOADS' GENERAL NOTES, INCLUDING WIND LOADS. REFER TO OTHER DESIGN DISCIPLINE DRAWINGS FOR OTHER LOADS NOT INDICATED HEREIN SUCH AS BUT NOT LIMITED TO HANGAR SWINGING DOORS, HANGAR BI-PARTING ROLLING DOORS, HANGAR FLOATING ROLLING DOORS, SUSPENDED FANS, WALL-MOUNTED FANS, STAIRS, CRANE RAILS, EQUIPMENT, CURTAINS, CURTAIN WALL FRAMING, OPERABLE PARTITIONS, OVERHEAD FOLDING DOORS, ETC. THE DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST ISSUES OF THE AISC AND AISI SPECIFICATIONS AND MBMA 'METAL BUILDING SYSTEMS MANUAL' DESIGN PRACTICES.

3. COLUMNS SHALL BE DESIGNED AS UNBRACED BY THE MASONRY.

4. SHOP DRAWINGS AND A LETTER OF CERTIFICATION SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL INDICATE THE DESIGN LOADS AND JOB NAME AND NUMBER. THEY SHALL INCLUDE SIZES OF ALL THE FRAMING MEMBERS AND RELATED ACCESSORIES AND SPECIALIZED CONNECTIONS, THE ANCHOR BOLT PLAN AND REACTIONS. STANDARD CUT SHEETS OF THE ABOVE ARE NOT ACCEPTABLE. STANDARD CUT SHEETS MAY BE SUBMITTED FOR SECONDARY FRAMING CONNECTION DETAILS, FLASHING AND SHEETING DETAILS, ETC. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEW AND APPROVAL IN WRITING OF ANY INTERIM AND ALL FINAL PEMB SHOP DRAWINGS TO ASSURE THEY MATCH THE CONCEPT DESIGN INTENT PRIOR TO FORWARDING ONTO ENGINEER FOR REVIEW.

5. THE MANUFACTURER SHALL PROVIDE SIGNED AND SEALED CALCULATIONS FOR ALL FRAMING MEMBERS, RELATED ACCESSORIES, AND SPECIALIZED CONNECTIONS PREPARED UNDER THE SUPERVISION OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER. THE SUBMITTAL SHALL INCLUDE THE LOAD COMBINATION REACTIONS FOR EACH COLUMN SUPPORT TO THE ENGINEER OF RECORD PRIOR TO THE FINAL FOUNDATION PRICING PACKAGE SUBMITTAL. IF THE MANUFACTURER DOES NOT COMPLY, THE FOUNDATION DESIGN WILL BE ASSUMED TO RESIST THE NOMINAL LOADS SHOWN ON PLAN. IF THE PEMB MANUFACTURER'S REACTION BECOME AVAILABLE AFTER THE OWNER'S FINAL NEGOTIATED COST AND THE ASSUMED FOUNDATION REQUIRE LARGER FOUNDATIONS, THE INCREASE IN FOUNDATION SIZE SHALL BE PROVIDED AT NO COST TO THE OWNER OR THE ENGINEER OF RECORD.

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

LUCA DELVERME, P.E.
FL LICENSE #63055

NO	DATE	REVISION	BY

STRUCTURAL GENERAL NOTES

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR THE CITY OF MARIANNA

DESIGNED BY:	BR
DRAWN BY:	BR
CHECKED BY:	LDV
APPROVED BY:	LDV
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET NUMBER

S-0.1

DESIGN LOADS

THE FOLLOWING SUPERIMPOSED LOADS HAVE BEEN UTILIZED IN ACCORDANCE WITH THE MOST RECENT PRINTING/ERRATA OF ASCE 7-10 'MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES'.

1. LIVE LOADS:
   - A. ROOF — 20 PSF
   - B. AIRCRAFT WHEEL LOAD — 16 KIPS

2. DEAD LOADS:
   - A. METAL ROOF STRUCTURE W/ INSULATION — 5 PSF
   - B. ROOF TO RESIST WIND UPLIFT — 2 PSF
   - C. SUSPENDED M/E/P — 2 PSF

3. WIND DESIGN DATA:
   - A. ULTIMATE WIND SPEED (Vult) — 125 MPH
   - B. NOMINAL WIND SPEED (Vasd) — 100 MPH
   - C. RISK CATEGORY — II
   - D. EXPOSURE CATEGORY — C
   - E. INTERNAL PRESSURE COEFF. (GCpi) — +/- 0.18 (ENCLOSED)
   - F. COMPONENTS AND CLADDING PRESSURE — SEE WIND PRESSURE PLAN

POST-INSTALLED CONCRETE ANCHORS

1. POST-INSTALLED CONCRETE ANCHORS SHALL BE ADHESIVE ANCHORS ONLY. THE ANCHOR TYPES AND CONDITIONS LISTED BELOW ARE THE DESIGN AND DETAILING BASIS OF ALL POST-INSTALLED ANCHORAGE IN THE CONTRACT DOCUMENTS:
   - A. ANCHORAGE TO CONCRETE (CRACKED) ELEMENTS
     - FOR FAST CURE APPLICATIONS:
       - a. HILTI HIT-HY 200 MAX-A (ICC ESR-3187) WITH CONTINUOUSLY THREADED RODS (ASTM A193 GrB7 FOR CARBON STEEL AND ASTM F593 FOR STAINLESS STEEL) OR CONTINUOUSLY DEFORMED REINFORCING STEEL.
     - FOR SLOW CURE APPLICATIONS:
       - a. HILTI HIT-RE 500-V3 (ICC ESR-3814) WITH HILTI HIS-N OR HIS-RN INTERNALLY THREADED INSERTS, CONTINUOUSLY THREADED RODS (ASTM A193 GrB7 FOR CARBON STEEL AND ASTM F593 FOR STAINLESS STEEL) OR CONTINUOUSLY DEFORMED REINFORCING STEEL.
       - b. SIMPSON STRONG-TIE SET-XP (ICC-ES ESR-2508) CONTINUOUSLY THREADED RODS (ASTM A193 GrB7 FOR CARBON STEEL AND ASTM F593 FOR STAINLESS STEEL) OR CONTINUOUSLY DEFORMED REINFORCING STEEL.

2. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT LISTED ABOVE FOR EACH OF THE SPECIFIC CONNECTIONS DETAILED IN THE PLANS. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC-ES AC58, ICC-ES AC60, AND/OR ICC-ES AC308 SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.

3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

4. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFIS SYSTEM.

5. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

6. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

7. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.

SHALLOW FOUNDATIONS (WITHOUT GEOTECHNICAL REPORT)

1. THE DESIGN OF SITE PREPARATION AND FOUNDATION HAVE BEEN ASSUMED BASED ON 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE ON COMPACTED FILL. THE GENERAL CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION PRIOR TO COMMENCING WORK:
   - A. SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION, AS FIELD AND LABORATORY TESTS PERFORMED BY A CERTIFIED TESTING LABORATORY, WHOSE REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS.
   - B. AS A MINIMUM REQUIREMENT, TOP SOIL SHALL BE REMOVED TO A MINIMUM DEPTH OF ONE FOOT BELOW FOOTING/SLAB ELEVATION OVER THE ENTIRE BUILDING AREA AND FIVE FEET BEYOND BUILDING LINES. FILL MATERIAL TO FINISHED GRADE SHALL BE PLACED WITH MAXIMUM LIFT OF 6 INCHES. SUBGRAGE AND EACH LIFT OF MATERIAL SHALL BE COMPACTED TO 95% OF A MODIFIED PROCTOR DENSITY DETERMINED IN ACCORDANCE WITH ASTM D1557.

2. NO CONCRETE SHALL BE PLACED IN WATER. CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND SHALL KEEP THEM FREE OF WATER. GROUND WATER MUST BE MAINTAINED AT A MINIMUM OF 2 FT. BELOW BOTTOM OF EXCAVATION AT ALL TIMES DURING CONSTRUCTION.

3. LOCATE ALL EXISTING UTILITIES IN THE CONSTRUCTION AREA PRIOR TO EXCAVATION AND AVOID DAMAGE TO THEM. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY AND ALL DAMAGED UTILITIES CAUSED IN CONSTRUCTION TO THE SATISFACTION OF THE LOCAL BUILDING OFFICIALS AND/OR OWNER.

4. COORDINATE BURIED PLUMBING AND OTHER UTILITY LINES WITH FOOTING LOCATIONS FOR INTERFERENCE AS PER THE TYPICAL CONDUIT PENETRATION AT FOOTING DETAIL. WITH PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD, WALL FOOTINGS MAY BE STEPPED AND ISOLATED COLUMN FOOTINGS MAY BE DROPPED AS IN ACCORDANCE WITH THE TYPICAL WALL STEP FOOTING DETAIL.

5. EXCAVATING UNDER OR NEAR IN-PLACE FOUNDATIONS WHICH DISTURBS THE COMPACTED SOIL BENEATH SHALL NOT BE PERMITTED. TRENCH EXCAVATIONS WITHIN THE 45 DEGREE LOAD INFLUENCE WIDTH ALONG FOUNDATIONS ARE PROHIBITED.

6. SECURE ALL ANCHOR RODS, AND OTHER EMBEDDED COMPONENTS INTO PROPER PLACE WITHIN FOOTINGS. DO NOT WET-SET THEM INTO NEWLY POURED CONCRETE.

DESIGN BASIS PEMB COLUMN REACTIONS

COLUMN GRIDLINE	NOMINAL UPLIFT (KIPS)	(NUMBER)-DIAMETER OF ANCHOR RODS
B2, D2	-52.5	(4)-3/4"
C2	-48.7	(4)-3/4"
B8, D8	-30.5	(4)-3/4"
8C	-28.6	(4)-3/4"
E3, E6, A1, E1	-12.2	(4)-3/4"
A2	-31.9	(4)-3/4"
E4, E5, E7	-6.95	(4)-3/4"
A8	-28.45	(4)-3/4"
E2, E8	-3.3	(4)-3/4"
A3, A7	-1	(4)-3/4"
B1, C1, D1	-19.5	(4)-3/4"

NOTES:

1. REFER TO PRE-ENGINEERED METAL BUILDING (PEMB) GENERAL NOTES. REFER TO ANCHOR ROD DETAIL FOR LENGTH AND OTHER INFORMATION.
2. THE NOMINAL UPLIFT VALUES ABOVE ARE THE DESIGN BASIS ENVELOPE REACTIONS (BASED ON SERVICE LOADING) USED FOR PRICING PURPOSES. THEY ACCOUNT FOR SUPERIMPOSED LOADS ON THE PEMB AND SUPERSTRUCTURE SELF-WEIGHT.
3. THE LOADS HEREIN ARE BASED ON THE WALL X-BRACING CONFIGURATION SHOWN ON THE FOUNDATION PLAN WITH MATCHING ROOF X-BRACING IN THE SAME BAYS.

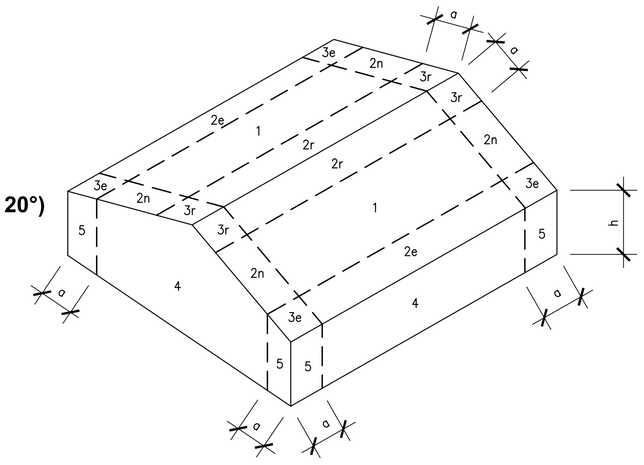
COMPONENTS AND CLADDING WIND PRESSURES (PSF)

LOCATION	ZONE	EFFECTIVE WIND AREA (A), FT²						
		A = 2	A = 10	A = 20	A = 50	A = 100	A = 250	A = 500
ROOF	1	+25.5,-63.1	+20.7,-63.1	+18.7,-63.1	+16.0,-38.4	+16.0,-19.7	+16.0,-19.7	+16.0,-19.7
	1-OH	-77.6	-77.6	-77.6	-61.1	-48.6	-48.6	-48.6
	2e	+25.5,-63.1	+20.7,-63.1	+18.7,-63.1	+16.0,-38.4	+16.0,-19.7	+16.0,-19.7	+16.0,-19.7
	2e-OH	-77.6	-77.6	-77.6	-61.1	-48.6	-48.6	-48.6
	2n	+25.5,-92.1	+20.7,-92.1	+18.7,-79.6	+16.0,-63.1	+16.0,-50.6	+16.0,-34.2	+16.0,-34.2
	2n-OH	-106.5	-106.5	-97.2	-84.8	-75.5	-63.1	-63.1
	2r	+25.5,-92.1	+20.7,-92.1	+18.7,-79.6	+16.0,-63.1	+16.0,-50.6	+16.0,-34.2	+16.0,-34.2
	2r-OH	-106.5	-106.5	-97.2	-84.8	-75.5	-63.1	-63.1
	3e	+25.5,-92.1	+20.7,-92.1	+18.7,-79.6	+16.0,-63.1	+16.0,-50.6	+16.0,-34.2	+16.0,-34.2
	3e-OH	-123.9	-123.9	-107.7	-86.3	-70.1	-48.6	-48.6
	3r	+25.5,-109.4	+20.7,-109.4	+18.7,-93.8	+16.0,-73.0	+16.0,-57.3	+16.0,-57.3	+16.0,-57.3
	3r-OH	-141.3	-141.3	-120.4	-92.7	-71.8	-71.8	-71.8
WALLS	4	+31.3,-33.9	+31.3,-33.9	+29.9,-32.5	+28.1,-30.7	+26.7,-29.3	+24.8,-27.4	+23.5,-26.1
	5	+31.3,-41.7	+31.3,-41.7	+29.9,-38.9	+28.1,-35.3	+26.7,-32.5	+24.8,-28.8	+23.5,-26.1

NOTES:

1. EFFECTIVE WIND AREA IS SUCH AS DEFINED BY ASCE 7 FOR EFFECTIVE WIND AREAS BETWEEN THOSE GIVEN ABOVE, THE PRESSURE MAY BE INTERPOLATED, OTHERWISE USE PRESSURE WITH THE LOWER EFFECTIVE AREA.
2. WIND PRESSURES ARE GROSS POSITIVE AND NEGATIVE VALUES CALCULATED WITH THE ULTIMATE WIND SPEED (Vult) PER THE GENERAL NOTES DESIGN LOADS CRITERIA. FOR WIND PRESSURES USING NOMINAL WIND SPEED (Vasd), MULTIPLY THE ABOVE VALUES BY 0.6.
3. POSITIVE (+) WIND PRESSURE INDICATES TOWARDS THE SURFACE, NEGATIVE (-) WIND PRESSURE INDICATES AWAY FROM THE SURFACE.
4. "XX-O" INDICATES OVERHANG WIND PRESSURE.
5. a = 9.2 FT; h = 23 FT

GABLE (7<Θ <= 20°)



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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

LUCA DELVERME, P.E.
FL LICENSE #63055

NO.	DATE	REVISION	BY

STRUCTURAL GENERAL NOTES AND COLUMN REACTIONS

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR THE CITY OF MARIANNA

DESIGNED BY:	BR
DRAWN BY:	BR
CHECKED BY:	LDV
APPROVED BY:	LDV
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET NUMBER

S-0.2

FOUNDATION PLAN NOTES:

1 SEE GENERAL NOTES ON SHEET S001 AND S002.

2 DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCY TO THE ARCHITECT OF RECORD IN WRITING FOR CLARIFICATION PRIOR TO START OF CONSTRUCTION.

3 COORDINATE EXTENT AND LOCATION OF ALL FLOOR AND ROOF OPENINGS/PENETRATIONS WITH ARCH/MECH DRAWINGS.

4 PROVIDE CORNER BARS WHERE ALL TURNDOWN EDGE FOOTINGS CHANGE DIRECTION AND AT ALL TURNDOWN SLAB EDGE FOOTING INTERSECTIONS. REFER TO FOUNDATION DETAILS FOR FURTHER INFORMATION.

5 CONCRETE SLAB CONSTRUCTION: COORDINATE LOCATION AND EXTENT OF ALL SLAB SLOPES, FLOOR DRAINS, AND DEPRESSIONS WITH ARCHITECTURAL DRAWINGS AND REFER TO CIVIL DRAWINGS FOR ACTUAL ELEVATION. FOR EXTERIOR CONCRETE DOORSTEP AND WALKWAY SLABS NOT SHOWN HEREIN, SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR THEIR LIMITS. FOR MORE INFORMATION REFER TO CAST-IN-PLACE CONCRETE GENERAL NOTES. SLAB SHALL BE CAST ON A 10 MIL VAPOR BARRIER ON COMPACTED SUBGRADE. PROVIDE (2)-#5 x 4'-0" LONG BARS AT ALL RE-ENTRANT SLAB CORNERS CENTERED WITH CONCRETE SLAB THICKNESS IN ADDITION TO THE REINFORCEMENT SHOWN BELOW.

A. 8" THICK SLAB-ON-GRADE REINFORCED WITH #5 BARS SPACED AT 16" OC (MAX, MID-DEPTH, EACH WAY), REFER TO TYPICAL SLAB-ON-GRADE DETAIL FOR MORE INFORMATION

B. 4" THICK CONCRETE SLAB REINFORCED WITH 6X6-W2.0XW2.0 WWF LOCATED AT MID-DEPTH, REFER TO TYPICAL SLAB-ON-GRADE DETAIL FOR MORE INFORMATION

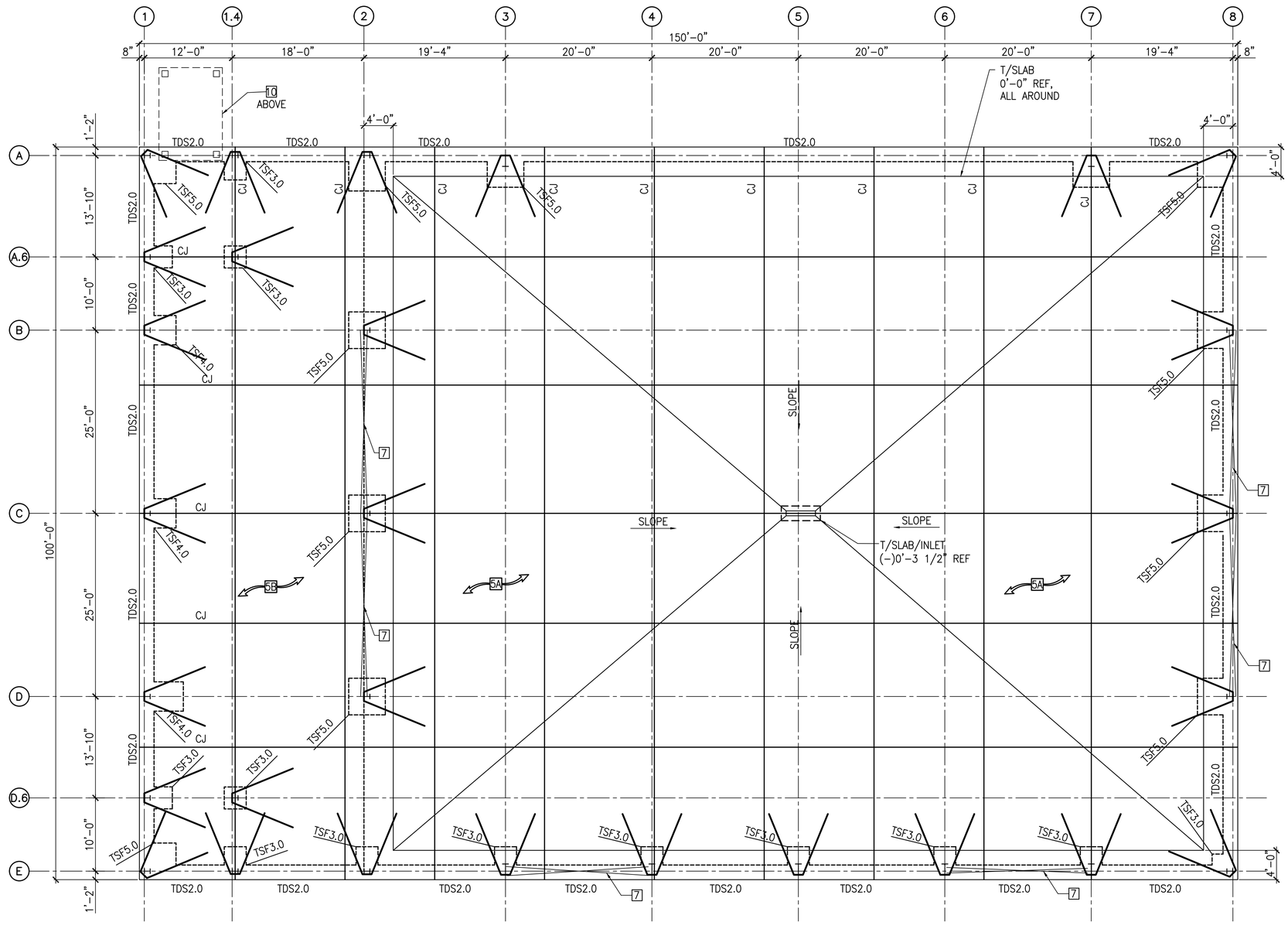
6 PRE-ENGINEERED METAL BUILDING (PEMB) FRAMES: GENERAL CONTRACTOR TO VERIFY/COORDINATE EXACT COLUMN LOCATION, EXACT ANCHOR BOLT LOCATION, MEMBER QUANTITIES AND LAYOUT WITH PRE-ENGINEERED METAL BUILDING MANUFACTURER/SUPPLIER'S APPROVED SHOP DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND THE APPROVED PEMB SHOP DRAWINGS AND REPORT ANY DISCREPANCY TO THE ARCHITECT OF RECORD IN WRITING FOR CLARIFICATION PRIOR TO START OF CONSTRUCTION.

7 >-< - INDICATES PRE-ENGINEERED METAL BUILDING WALL X-BRACING AS LOCATED ON PLAN. COMPRESSION ELEMENTS BETWEEN FRAMES SHALL BE PROVIDED AS INDEPENDENT PIPE STRUTS OR INCORPORATED IN COMBINATION WITH THE BUILDING PURLIN SYSTEM. ALTERNATIVE BRACING LOCATIONS MUST BE APPROVED BY THE ARCHITECT OF RECORD PRIOR TO FINALIZING METAL BUILDING DRAWINGS.

8 HOUSEKEEPING PAD: 3" MINIMUM THICK CONCRETE PAD REINFORCED WITH 6x6-W2.0xW2.0 WWF AT MID-DEPTH OVER CONCRETE SLAB. COORDINATE PAD THICKNESS, LOCATION, AND LIMITS WITH OTHER DESIGN DISCIPLINE CONTRACT DRAWINGS AND THE EQUIPMENT MANUFACTURER/SUPPLIER'S APPROVED SHOP DRAWINGS. FOR MORE INFORMATION REFER TO THE TYPICAL HOUSEKEEPING PAD DETAIL

9 CIP CONCRETE CURB AT BATHROOM WALLS: 6" HIGH CONCRETE CURB REINFORCED WITH CONT (1)-#5 LONGITUDINAL BARS, REFER TO GENERAL NOTES AND TYPICAL CURB DETAILS FOR MORE INFORMATION.

10 PRE-ENGINEERED ALUMINUM CANOPY (PEAC): GENERAL CONTRACTOR TO VERIFY/COORDINATE EXACT COLUMN LOCATION, EXACT ANCHOR BOLT LOCATION, MEMBER QUANTITIES AND LAYOUT WITH PRE-ENGINEERED METAL CANOPY. DELEGATED ENGINEER TO DESIGN FOUNDATION AND ANCHORAGE FOR PEAC MANUFACTURER/SUPPLIER'S APPROVED SHOP DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND THE APPROVED PEAC SHOP DRAWINGS AND REPORT ANY DISCREPANCY TO THE ARCHITECT OF RECORD IN WRITING FOR CLARIFICATION PRIOR TO START OF CONSTRUCTION.



1 FOUNDATION PLAN
S1.0 SCALE: 1/8"=1'-0"

FOOTING SCHEDULE

FOOTING MARK	SIZE		REINFORCEMENT
	T	W x L	
TDS2.0	24"	2'-0"x CONT	CONT (3)-#5 BOTTOM; #5 @ 24" OC TRANSVERSE
TSF3.0	24"	3'-0" x 3'-0"	(5)-#6 BOTTOM, EACH WAY
TSF4.0	24"	4'-0" X 4'-0"	(5)-#5 BOTTOM, EACH WAY
TSF5.0	24"	5'-0" X 5'-0"	(6)-#5 BOTTOM, EACH WAY

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STRUCTURAL FLOOR PLAN AND PLAN NOTES

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR
THE CITY OF MARIANNA

DESIGNED BY:	BR
DRAWN BY:	BR
CHECKED BY:	LDV
APPROVED BY:	LDV
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

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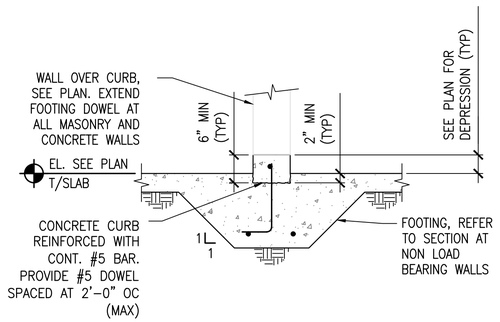
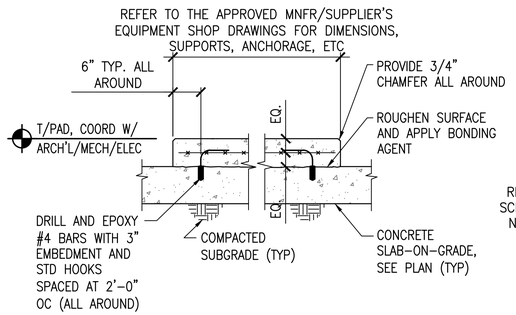


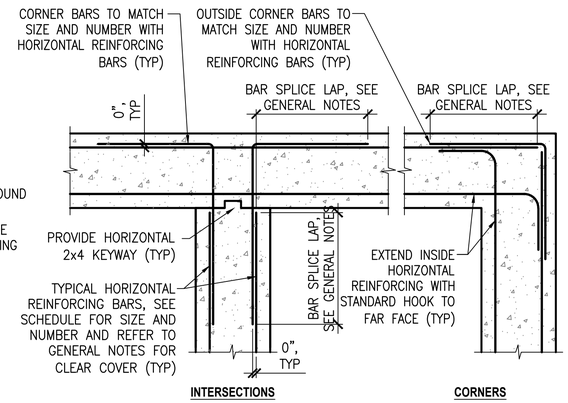
1 TYP. CURB DETAIL

S4.02 | S4.02 SCALE: 3/4"=1'-0"



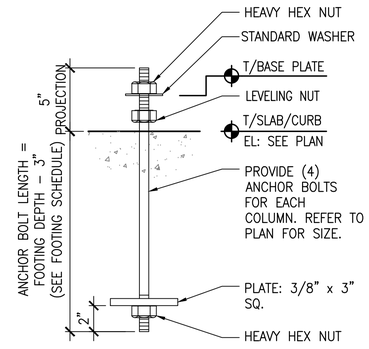
2 TYP. HOUSEKEEPING PAD DETAIL

S3.01 | S3.01 SCALE: 3/4"=1'-0"



3 TYPICAL HORIZONTAL REINFORCING AT FOOTINGS/BEAMS/WALLS DETAIL

S3.01 | S3.01 SCALE: 3/4"=1'-0"

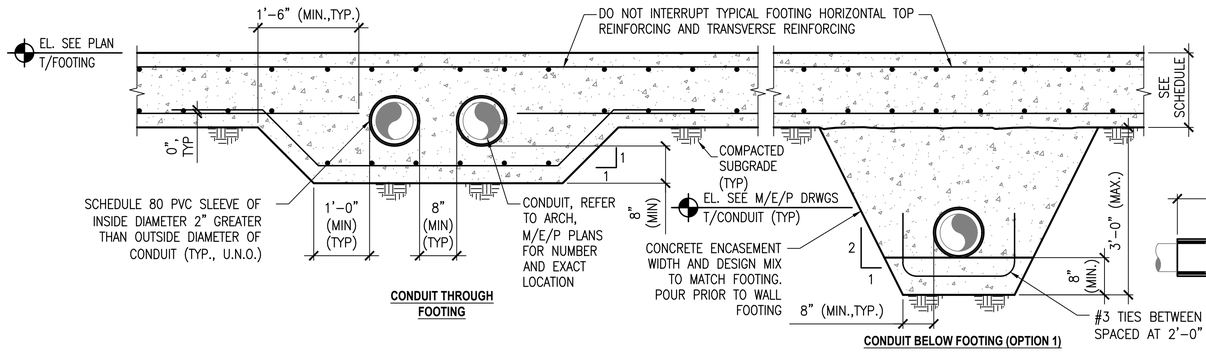


NOTES:

1. UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" PLUS 1/2 TURN.

4 TYPICAL ANCHOR BOLT DETAIL

S3.01 | S3.01 3/4"=1'-0"

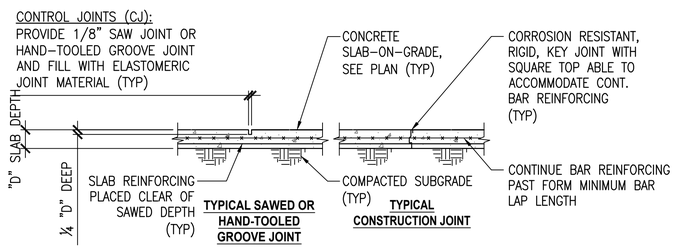


CONDUIT AT FOUNDATIONS NOTES:

1. PROVIDE A STEP FOOTING AND ALLOW CONDUIT TO PASS THROUGH THE WALL ABOVE FOR ALL CONDUIT WITH TOP OF CONDUIT ELEVATION WITHIN 10" OF THE TOP OF FOOTING ELEVATION. PROVIDE 'CONDUIT THROUGH FOOTING' DETAIL FOR ALL CONDUIT WITH TOP OF CONDUIT ELEVATION WITHIN 10" FROM THE BOTTOM OF FOOTING ELEVATION. PROVIDE 'CONDUIT BELOW FOOTING OPTION 1 OR OPTION 2 DETAIL FOR ALL CONDUIT WITH TOP OF CONDUIT ELEVATION GREATER THAN 10" BELOW THE BOTTOM OF FOOTING ELEVATION. 'CONDUIT BELOW FOOTING OPTION 2' DETAIL SHALL NOT BE USED WHERE CONDUIT IS GREATER THAN 30 DEGREES FROM ORTHOGONAL WITH RESPECT TO THE WALL FOOTING. FOR CONDUIT DIAMETERS, LOCATIONS, AND ELEVATIONS DEVIATING FROM THE CRITERIA ABOVE, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION.

5 TYPICAL CONDUIT PENETRATION AT FOOTING

S3.01 | S3.01 SCALE: 3/4"=1'-0"

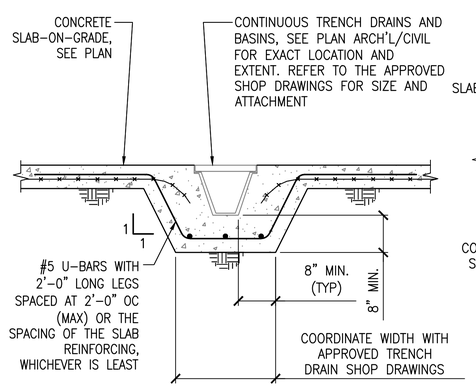


SLAB-ON-GRADE NOTES:

1. FORMED CONSTRUCTION JOINTS AND HAND-TOOLED CONTROL JOINTS ARE EQUAL SUBSTITUTES. PROVIDE HAND-TOOLED GROOVE JOINTS AT EXTERIOR SLABS ONLY AND WHERE SAWED JOINTS SAW BLADE IS OBSTRUCTED. DO NOT PROVIDE CRACK CONTROL JOINTS AT ELEVATED FORMED OR DECK-SUPPORTED ELEVATED SLABS.
2. SAWED CONTROL JOINTS SHALL BE PLACED AS SOON AS POSSIBLE WITHOUT RAVELING CONCRETE OR DISLODGING AGGREGATE. CLEAN SAWED/TOOLED JOINT AND APPLY JOINT MATERIAL PER MANUFACTURER'S INSTRUCTIONS.
3. SEE PLAN FOR JOINT SPACING. DO NOT EXCEED 30xD (EACH DIRECTION) JOINT SPACING OR MAXIMUM 15'-0" FEET. WHERE TOP OF SLAB SURFACES ARE TO BE FINISHED WITH TILE OR OTHER FEATURES, GENERAL CONTRACTOR SHALL COORDINATE JOINT LOCATIONS WITH TILE MORTAR JOINTS. JOINT PATTERN SHALL NOT EXCEED 1.5 TO 1 ASPECT RATIO.

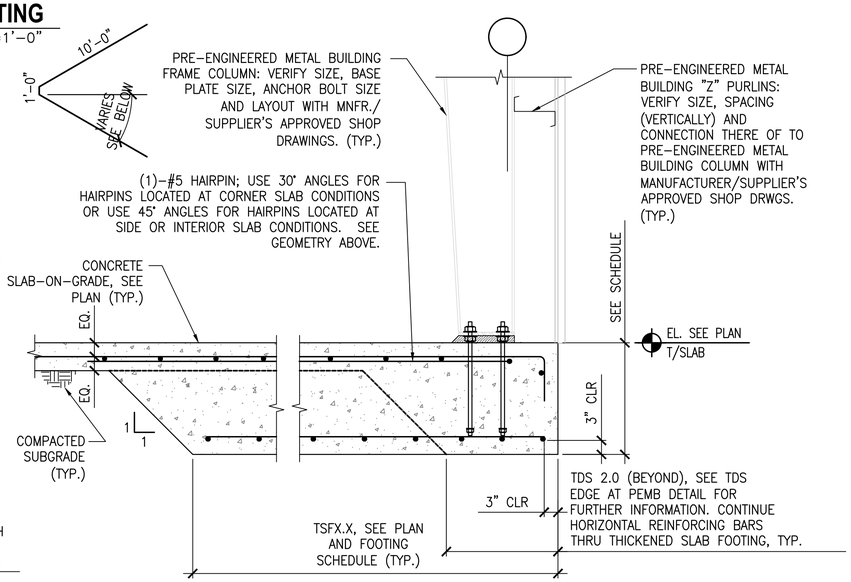
6 TYPICAL SLAB-ON-GRADE DETAIL

S201 | S201 3/4"=1'-0"



7 TYP TRENCH DRAIN/BASIN DETAIL

S201 | S201 3/4"=1'-0"



8 TYPICAL TSF AT PEMB COLUMN

S201 | S201 SCALE: 3/4"=1'-0"

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NO.	DATE	REVISION	BY

STRUCTURAL DETAILS

RELEASE FOR BID

MAI HANGAR DEVELOPMENTS

PREPARED FOR THE CITY OF MARIANNA

DESIGNED BY:	BR
DRAWN BY:	BR
CHECKED BY:	LDV
APPROVED BY:	LDV
PROJECT NO:	2022.260.03
DATE:	JANUARY 2024

SHEET NUMBER

S-2.0

MECHANICAL SYMBOLS

NOTE: NOT ALL SYMBOLS TABULATED BELOW ARE NECESSARILY USED ON THE DRAWINGS.

SYMBOLS	DESCRIPTION
SD	SMOKE DAMPER
F	FIRESTAT
H	HUMIDSTAT
T	TEMPERATURE SENSOR
M	MOTORIZED DAMPER
FD	BAROMETRIC DAMPER
OBD	OPPOSED BLADE DAMPER
BDD	BACKDRAFT DAMPER
CO	CARBON DIOXIDE SENSOR
°F	FREEZESTAT
S	SMOKE DETECTOR (BY DIVISION 16)
AFM	AIR FLOW MONITORING STATION
07/M-3	INDICATES REFERENCE TO DETAIL 07, SHEET M-3. ALSO INDICATED BY: REF. 07/M-3.
	FILTER SECTION
	FLEXIBLE CONNECTION
	MECHANICAL EQUIPMENT
A 12" x 12" CFM	AIR DEVICE TAG
	CEILING SUPPLY DIFFUSER
	CEILING RETURN GRILLE
	CEILING EXHAUST AIR GRILLE
	DUCTWORK
	FIRE DAMPER (WITH ACCESS PANEL)
	FIRE & SMOKE DAMPER (WITH ACCESS PANEL)
	ADJUSTABLE VOLUME DAMPER
	FLEXIBLE DUCT
	CONCENTRIC TRANSITION
	ECCENTRIC TRANSITION
	SUPPLY REGISTER OR GRILLE
	RETURN/EXHAUST REGISTER OR GRILLE
	OUTSIDE AIR LOUVER
	EXHAUST AIR LOUVER
SP	STATIC PRESSURE SENSOR

SYMBOLS	DESCRIPTION
	GATE VALVE
	CHECK VALVE
	GLOBE VALVE
	CALIBRATED BALANCING VALVE (CIRCUIT SETTER)
	AUTOMATIC FLOW CONTROL VALVE (PRESSURE INDEPENDENT BALANCING)
	PLUG VALVE
	BUTTERFLY VALVE
	BALL VALVE
	Y-STRAINER WITH BALL VALVE AND HOSE BIBB DRAIN AND CAP
	2-POSITION, 3-WAY CONTROL VALVE
	MODULATING 3-WAY CONTROL VALVE
	2-POSITION, 2-WAY CONTROL VALVE
	MODULATING 2-WAY CONTROL VALVE
S	SOLENOID VALVE
	P/V TEST PLUG
	PRESSURE GAUGE WITH PLUG VALVE AND SNUBBER
	THERMOMETER
	PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE
AAV	AUTOMATIC AIR VENT
MAV	MANUAL AIR VENT
	UNION OR FLANGE OR FLEX CONNECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	FLOW METER
	UNION OR FLANGE
	FLOW CONTROL VALVE
	SCHEMATIC PUMP
	PIPE CAP
	CONNECTION, BOTTOM
	CONNECTION, TOP
	TEE, OUTLET DOWN
	TEE, OUTLET UP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	VALVE IN RISER
	DIRECTION OF FLOW IN PIPE
	NEW CONNECTION
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
G	GAS LINE
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
RS	REFRIGERANT SUCTION LINE
RL	REFRIGERANT LIQUID LINE

SYMBOLS	DESCRIPTION
UC	1/2" DOOR UNDERCUT
	DOOR AIR TRANSFER GRILLE
	CONDENSATE P-TRAP
01 / M-3	INDICATES REFERENCE TO SEC. 01, SHEET M-3
	POINT OF CONNECTION
	POINT OF DEMOLITION

ABBREVIATIONS	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AFMS	AIRFLOW MEASURING SYSTEM
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CT	COOLING TOWER
CV	CONSTANT VOLUME / CONTROL VALVE
CU	CONDENSING UNIT
CHWP	CHILLED WATER PUMP
CWP	CONDENSER WATER PUMP
DDC	DIRECT DIGITAL CONTROLS
ΔP	DIFFERENTIAL PRESSURE
ΔT	CHANGE IN TEMPERATURE
DB	DRY BULB
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
EF	EXHAUST FAN
EPO	EMERGENCY POWER OFF
ERU	ENERGY RECOVERY UNIT
ERW	ENERGY RECOVERY WHEEL
ESP	EXTERNAL STATIC PRESSURE
FCU	FAN COIL UNIT
FF	FINAL FILTERS
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE/SMOKE DAMPER
FT	FEET
GPM	GALLONS PER MINUTE
GUI	GRAPHICAL USER INTERFACE
HP	HORSE POWER
HWP	HOT WATER PUMP
KW	KILOWATTS
LD	LINEAR DIFFUSER
MAU	MAKE-UP AIR UNIT
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPERAGE
MIN	MINIMUM
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
NTS	NOT TO SCALE
OA	OUTDOOR AIR

ABBREVIATIONS	DESCRIPTION
OAT	OUTDOOR AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
PH	PHASE
PRBP	PRESS. REDUCING BACKFLOW PREVENTER
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RF	RETURN / RELIEF FAN
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF-TOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN
SP	STATIC PRESSURE
SS	STAINLESS STEEL
TAB	TEST AND BALANCE
TAD	TRANSFER AIR DUCT
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V/PH	VOLTS / PHASE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VPF	VARIABLE PRIMARY FLOW
VTR	VENT THROUGH ROOF
VTU	VARIABLE VOLUME TERMINAL UNIT
WB	WET BULB

GENERAL NOTES

A. SITE VISIT-THE CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE FACILITY AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS. NO CLAIMS FOR ADDITIONAL WORK DUE TO OBSERVABLE CONDITIONS WILL BE CONSIDERED.

B. REPORT ANY ALTERATION TO AND/OR DEVIATIONS FROM THE DRAWING AS REQUIRED BY THE REGULATORY AUTHORITIES TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE STARTING ALTERATIONS.

C. PROVIDE EQUIPMENT CLEARANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES.

D. ALL WORK AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE MOST RECENTLY REVISED VERSION OF ALL APPLICABLE LAWS, RULES, REGULATION AND ORDINANCES OF FEDERAL, STATE, AND LOCAL AUTHORITIES, WHETHER INDICATED ON THE DRAWINGS OR NOT.

E. PATCH ALL WALL PENETRATIONS WHERE PIPING OR EQUIPMENT IS REMOVED AND WHERE OPENING IS NOT BEING REUSED. WALL SHALL BE SEALED TO PRE-CONSTRUCTION CONDITION AND MEET EXISTING WALL RATING.

F. PROVIDE FIRE STOPPING AT PENETRATIONS OR RATED ASSEMBLIES (SLAB AND RATED WALLS).

G. THE PIPING SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL ARRANGE WORK IN A NEAT AND ORDERLY MANNER. THE CONTRACTOR SHALL MAKE ANY OFFSETS, TRANSITIONS, AND OTHER MINOR ADJUSTMENTS AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM INSTALLATION.

H. DRAWINGS SHOW GENERAL SIZE AND APPROXIMATE LOCATIONS. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT OF THE UTILITY SYSTEM. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CONNECTIONS SIZE, LOCATION, DEPTH. THE CONTRACTOR SHALL INSTALL ALL SYSTEMS ACCORDING TO THE ACTUAL FIELD CONDITIONS FOUND. ANY MECHANICAL SYSTEM COMPONET INSTALLED INCORRECTLY DUE TO FIELD CONDITIONS SHALL BE REMOVED AND INSTALLED CORRECTLY AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS OF BUILDING WITHOUT PRIOR CONSENT OF ARCHITECT AND/OR STRUCTURAL ENGINEER.

I. ENGAGE A FACTORY AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM START-UP SERVICES AND TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST. OPERATE AND MAINTAIN EQUIPMENT.

J. PROVIDE OPERATION AND MAINTENANCE MANUALS TO OWNER FOR ALL INSTALLED EQUIPMENT.

K. ALL PIPING ELEVATIONS INDICATED ON THIS DRAWING SET ARE APPROXIMATE AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL PIPING ELEVATIONS IN THE FIELD PRIOR TO SUBMITTING A BID.

MECHANICAL SHEET INDEX

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ENGINEER OF RECORD:
NAME:
FL. LICENSE NO.:

NO.	DATE	BY

REVISIONS:

MECHANICAL SYMBOLS AND LEGENDS

RELEASE FOR BID

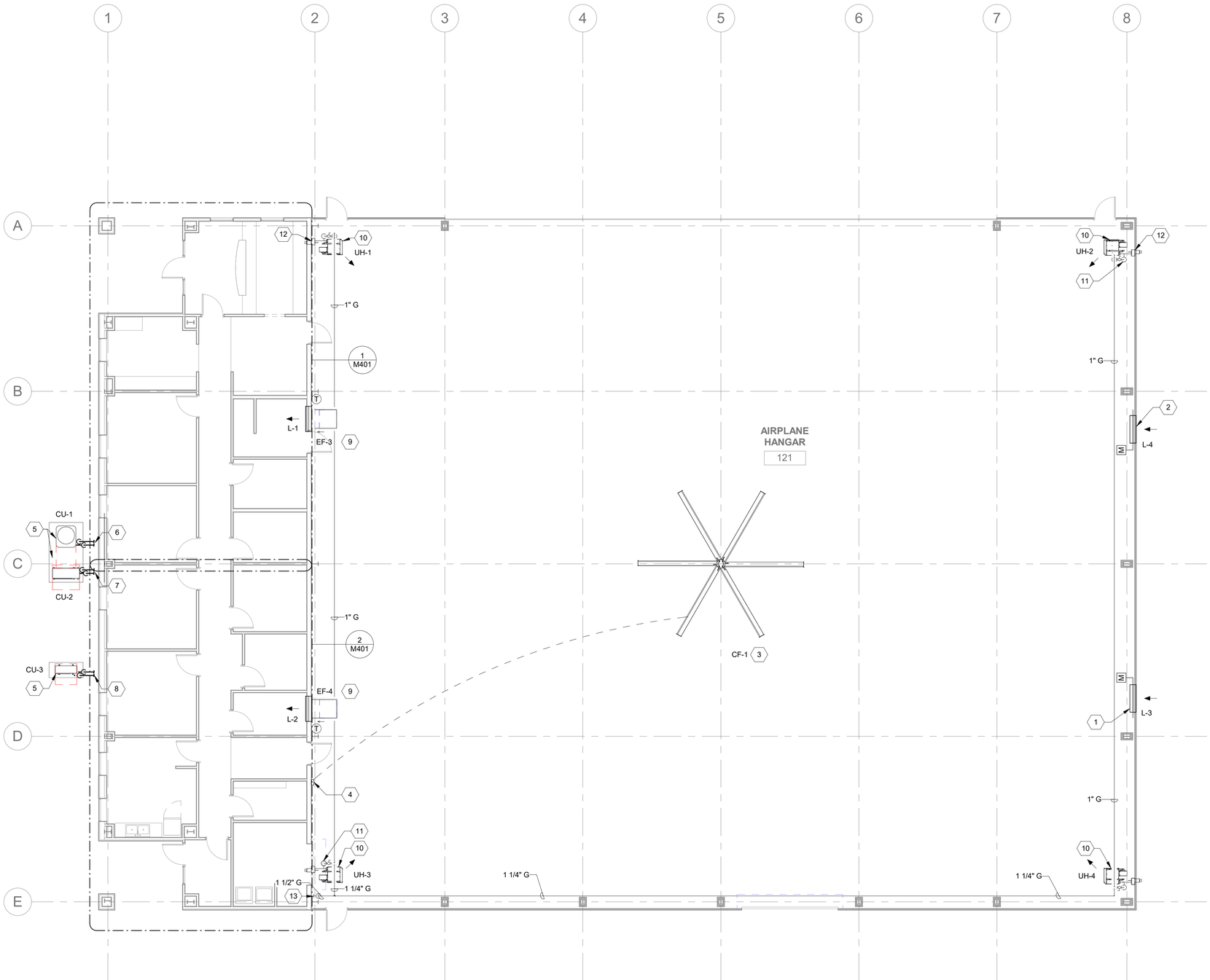
MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	JC
DRAWN BY:	JC
CHECKED BY:	ZP
APPROVED BY:	ZP
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET
M001



1 MECHANICAL 1ST FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH

MECHANICAL GENERAL NOTES

A.	SITE VISIT-THE CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE FACILITY AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS. NO CLAIMS FOR ADDITIONAL WORK DUE TO OBSERAVABLE CONDITIONS WILL BE CONSIDERED.
B.	REPORT ANY ALTERATION TO AND/OR DEVIATIONS FROM THE DRAWING AS REQUIRED BY THE REGULATORY AUTHORITIES TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE STARTING ALTERATIONS.
C.	PROVIDE EQUIPMENT CLEARANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH APPLICABLE CODES.
D.	ALL WORK AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE MOST RECENTLY REVISED VERSION OF ALL APPLICABLE LAWS, RULES, REGULATION AND ORDINANCES OF FEDERAL, STATE, AND LOCAL AUTHORITIES. WHETHER INDICATED ON THE DRAWINGS OR NOT.
E.	ROOM TEMPERATURE CONTROLLERS SHALL BE MOUNTED AT 48" AFF UNLESS NOTED OTHERWISE. DO NOT INSTALL ABOVE DIMMER.
F.	PROVIDE FIRE STOPPING AT PENETRATIONS OF RATED ASSEMBLIES (SLAB AND RATED WALLS).
G.	ALL EQUIPMENT IN HANGAR SHALL BE MOUNTED TO MAINTAIN A MINIMUM CLEARANCE OF 20'-0" ABOVE FINISHED FLOOR.

MECHANICAL KEY NOTES

1	PROVIDE INTAKE LOUVER WITH MOTORIZED DAMPER INTERLOCKED WITH EXHAUST FAN EF-3. REFER TO FAN SCHEDULE ON SHEET M601 AND TO ELECTRICAL WIRING DIAGRAM. MOTOR STARTER SHALL BE PROVIDED BY MECHANICAL CONTRACTOR WITH AUXILIARY CONTACT FOR INTERLOCKING LOUVER DAMPER ACTUATOR.
2	PROVIDE INTAKE LOUVER WITH MOTORIZED DAMPER INTERLOCKED WITH EXHAUST FAN EF-4. REFER TO FAN SCHEDULE ON SHEET M601 AND TO ELECTRICAL WIRING DIAGRAM. MOTOR STARTER SHALL BE PROVIDED BY MECHANICAL CONTRACTOR WITH AUXILIARY CONTACT FOR INTERLOCKING LOUVER DAMPER ACTUATOR.
3	INDUSTRIAL CEILING FAN, REFERENCE FAN SCHEDULE ON SHEET M601. MOUNT BOTTOM OF FAN AT MINIMUM CLEARANCE NOTED OR HIGHER. REFERENCE GENERAL NOTE G THIS SHEET. PROVIDE SUPPLEMENTAL SUPPORT STRUCTURE WHERE FAN IS NOT DIRECTLY BELOW STRUCTURE WITH ADEQUATE CAPACITY. REFER TO STRUCTURAL PLANS.
4	CEILING FAN CONTROLLER, REFER TO FAN SCHEDULE ON SHEET M601.
5	CONDENSING UNIT MOUNTED AT GRADE WITH CONCRETE EQUIPMENT PAD. REFER TO DETAILS 01/M501, 05/M501, AND 05/M501. REFER TO SPLIT SYSTEM HEAT PUMP UNIT SHCEDULE ON SHEET M601.
6	7/8" RS, 3/8" RL FROM FCU-1 TO CU-1. INSULATE BOTH RS/RL PIPE LINES PER SPECIFICIATION SECTION 23 23 00. REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES FOR LONG LINE APPLICATIONS AS REQUIRED.
7	7/8" RS, 3/8" RL FROM FCU-2 TO CU-2. INSULATE BOTH RS/RL PIPE LINES PER SPECIFICIATION SECTION 23 23 00. REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES FOR LONG LINE APPLICATIONS AS REQUIRED.
8	5/8" RS, 3/8" RL FROM AHU-3 TO CU-3. INSULATE BOTH RS/RL PIPE LINES PER SPECIFICIATION SECTION 23 23 00. REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES FOR LONG LINE APPLICATIONS AS REQUIRED.
9	PROVIDE SIDEWALL EXHAUST FAN IN HANGAR. REFERENCE DETAIL 03/M502 AND FAN SCHEDULE ON SHEET M601. PROVIDE EXHAUST LOUVER AT SIDEWALL FAN DISCHARGE, REFER TO LOUVER SCHEDULE ON SHEET M601.
10	PROVIDE NEW SEPARATED COMBUSTION GAS-FIRED UNIT HEATER. REFER TO SCHEDULE ON SHEET M601.
11	3/4" SUPPLY GAS LINE DN TO UNIT HEATER CONNECTION. PROVIDE UNION, SHUTOFF VALVE, AND DRIP LEG (TYP.). REFER TO DETAIL 2/P503.
12	PROVIDE MANUFACTURER'S HORIZONTAL CONCENTRIC COMBUSTION AIR INLET AND FLUE VENT ADAPTER BOX (TYP.).
13	REFER TO PLUMBING FLOOR PLAN ON SHEET P401 FOR CONTINUATION OF GAS PIPING.

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MECHANICAL 1ST FLOOR PLAN

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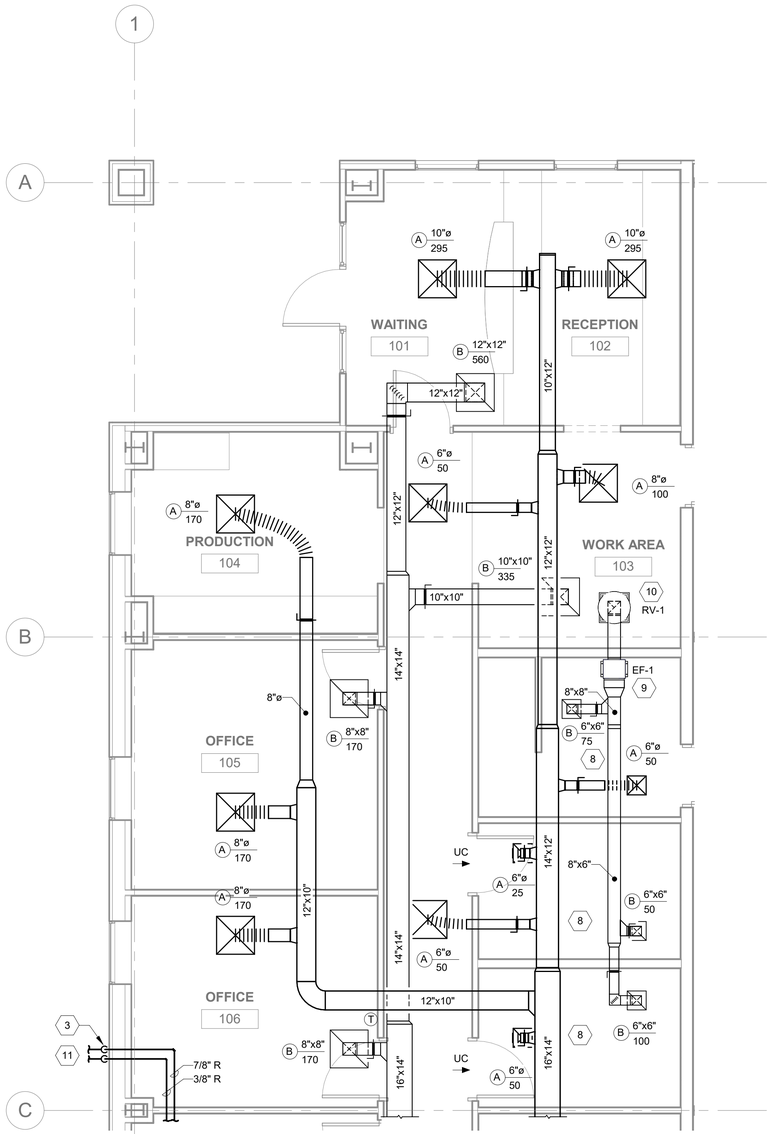
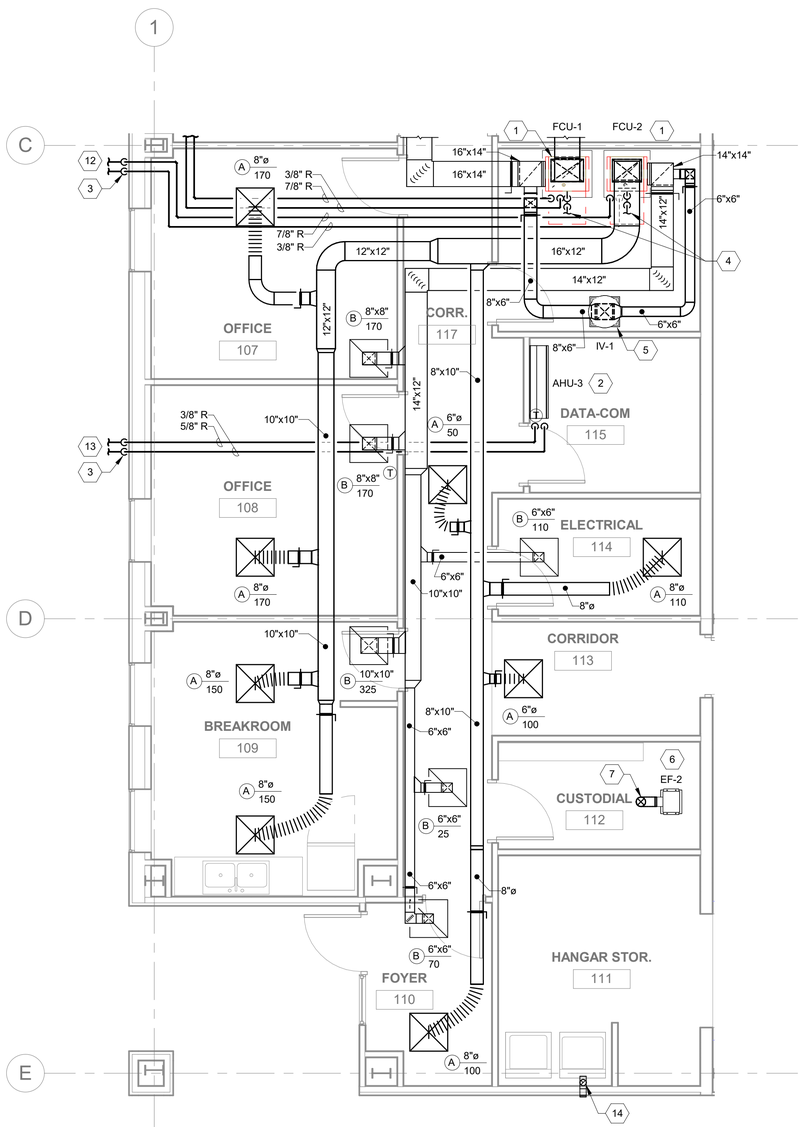
SHEET
M101



1 MECHANICAL ENLARGED PLAN - OFFICE NORTH
1/4" = 1'-0"



2 MECHANICAL ENLARGED PLAN - OFFICE SOUTH
1/4" = 1'-0"

MECHANICAL GENERAL NOTES

A.	SITE VISIT-THE CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE FACILITY AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS. NO CLAIMS FOR ADDITIONAL WORK DUE TO OBSERAVABLE CONDITIONS WILL BE CONSIDERED.
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E.	ROOM TEMPERATURE CONTROLLERS SHALL BE MOUNTED AT 48" AFF UNLESS NOTED OTHERWISE. DO NOT INSTALL ABOVE DIMMER.
F.	PROVIDE FIRE STOPPING AT PENETRATIONS OF RATED ASSEMBLIES (SLAB AND RATED WALLS).
G.	ALL EQUIPMENT IN HANGAR SHALL BE MOUNTED TO MAINTAIN A MINIMUM CLEARANCE OF 20'-0" ABOVE FINISHED FLOOR.

MECHANICAL KEY NOTES

1	REFERENCE VERTICAL AIR HANDLER UNIT DETAIL 02/M501. REFER TO SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE ON SHEET M601.
2	MINI SPLIT AIR HANDLER UNIT MOUNTED AT MINIMUM 7'-6" AFF. REFER TO DETAIL 05/M502 AND MINI SPLIT SYSTEM UNIT SCHEDULE ON SHEET M601. EXACT LOCATION OF NIT SHALL BE COORDINATED WITH IDF EQUIPMENT, CABLE BASKETS, AND LIGHTING, REFER TO ELECTRICAL PLANS.
3	PROVIDE REMOVABLE SHEET METAL PIPE CHASE AROUND REFRIGERANT PIPING. PAINT TO MATCH BUILDING EXTERIOR, COLOR TO BE APPROVED BY ARCHITECT. REFER TO DETAIL 06/M502.
4	CONDENSATE SHALL BE ROUTED TO CONDENSATE DRAIN IN MECHANICAL ROOM, REFERENCE PLUMBING FLOOR PLAN FOR LOCATION. REFER TO DETAIL 06/M501.
5	VENTILATION AIR INTAKE HOOD ON ROOF ABOVE. REFER TO SCHEDULE ON SHEET M601.
6	CEILING RECESSED CABINET TYPE EXHAUST FAN WITH BOTTOM GRILLE. REFER TO FAN SCHEDULE ON SHEET M601 AND FAN DETAIL 07/M502.
7	6" EA UP TO GOOSENECK VENT ON ROOF ABOVE.
8	PROVIDE CONCEALED DAMPERS WITH CABLE OPERATED DAMPER CONTROLLERS IN AREAS WITH HARD CEILINGS.
9	INLINE EXHAUST FAN. REFER TO FAN SCHEDULE ON SHEET M601 AND FAN DETAIL 04/M502.
10	EXHAUST AIR RELIEF HOOD ON ROOF ABOVE. REFER TO SCHEDULE ON SHEET M601.
11	7/8" RS, 3/8" RL FROM FCU-1 TO CU-1. INSULATE BOTH RS/RL PIPE LINES PER SPECIFICIATION SECTION 23 23 00. REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES FOR LONG LINE APPLICATIONS AS REQUIRED.
12	7/8" RS, 3/8" RL FROM FCU-2 TO CU-2. INSULATE BOTH RS/RL PIPE LINES PER SPECIFICIATION SECTION 23 23 00. REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES FOR LONG LINE APPLICATIONS AS REQUIRED.
13	5/8" RS, 3/8" RL FROM AHU-3 TO CU-3. INSULATE BOTH RS/RL PIPE LINES PER SPECIFICIATION SECTION 23 23 00. REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES FOR LONG LINE APPLICATIONS AS REQUIRED.
14	PROVIDE 4"Ø DUCT FOR DRYER EXHAUST VENT. VENT SHALL TERMINATE AT BUILDING EXTERIOR WITH BACKDRAFT DAMPER AND WALL CAP.

HVAC EQUIPMENT SEQUENCE OF OPERATIONS NOTES

FCU / HP-1 & 2

SPLIT-DX SYSTEMS CONSIST OF OUTDOOR AIR-COOLED HEAT PUMPS AND INDOOR FLOOR-MOUNTED VERTICAL FAN COIL UNITS WITH DX COILS AND AUXILIARY ELECTRIC HEAT. UNITS SHALL BE CONTROLLED BY 7-DAY PROGRAMMABLE THERMOSTATS.

IN THE COOLING MODE, FAN COIL UNITS OPERATE TO MAINTAIN COOLING SETPOINT OF 74°F (ADJ.). SYSTEMS CHANGE TO HEATING MODE AUTOMATICALLY WHEN SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT OF 70°F (ADJ.). HEAT PUMPS SHALL PROVIDE 1ST STAGE HEATING. WHEN UNABLE TO MAINTAIN THE HEATING SETPOINT, SYSTEMS SHALL ENERGIZE AUXILIARY HEATING COILS. FAN COIL UNITS SHALL BE OPERATED IN THE FAN "AUTO" POSITION. PROVIDE A +/- 2° DEADBAND BETWEEN COOLING AND HEATING MODES.

ELECTRICALLY INTERLOCKED OA DAMPERS SHALL BE ENERGIZED FULLY OPEN THROUGH CONTACT SWITCHES (SPRING RETURN TO FAIL-CLOSE) WHEN ASSOCIATED FAN COILS ARE COMMANDED ON.

UNOCCUPIED (SET-BACK) MODE SHALL BE SCHEDULED THROUGH PROGRAMMABLE THERMOSTATS. OA DAMPERS SHALL REMAIN CLOSED. UNOCCUPIED MODE SET POINTS SHALL BE 82°F (ADJ.) AND 65°F (ADJ.) FOR COOLING AND HEATING RESPECTIVALLY.

HANGAR GAS-FIRED UNIT HEATERS

GAS-FIRED UNIT HEATERS SHALL BE THERMOSTATICALLY CONTROLLED AND ENERGIZED UPON A DROP IN SPACE TEMPERATURE BELOW THE SETPOINT OF 55°F (ADJ.). WHEN SPACE TEMPERATURE IS SATISFIED, THE THERMOSTAT CLOSES THE GAS VALVE AND TURNS OFF BURNER CONTROLS AND FAN.

HIGH-VOLUME-LOW-SPEED FANS

HVLS FANS SHALL BE FURNISHED WITH A SMART CONTROLLER AND SPACE TEMPERATURE SENSORS. CONTROLLER USES FAN VARIABLE SPEED TO PROVIDE A WINTER DISTRATIFICATION MODE, SUMMER COOL-DOWN MODE AND MANUAL OPERATION.

PLAN NORTH

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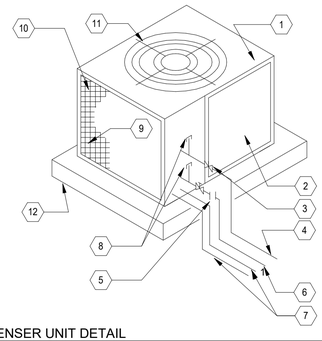
SHEET
M401

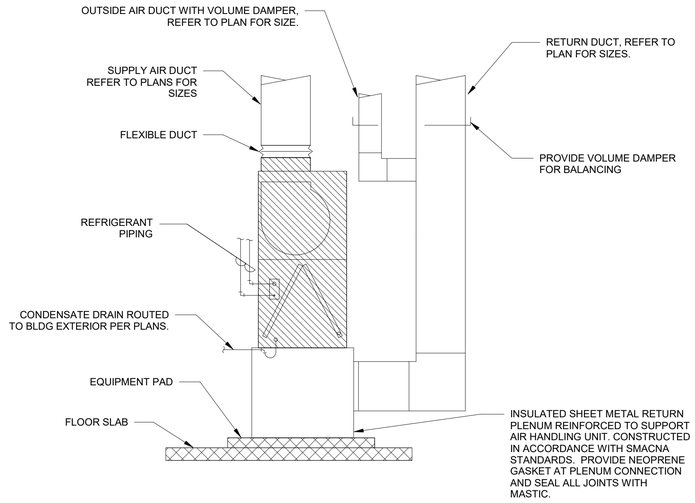
1. CONDENSING UNIT
2. COMPRESSOR ACCESS PANEL
3. BACK-SEATED REFRIGERANT VALVE
4. REFRIGERANT SUCTION LINE WITH INSULATION
5. SIGHT GLASS WITH MOISTURE INDICATOR
6. REFRIGERANT LIQUID LINE
7. CONDUIT - POWER AND CONTROL
8. REFRIGERANT GAUGE CONNECTION
9. CONDENSER COIL
10. COIL GUARD
11. FAN GUARD
12. REINFORCED CONCRETE EQUIPMENT PAD



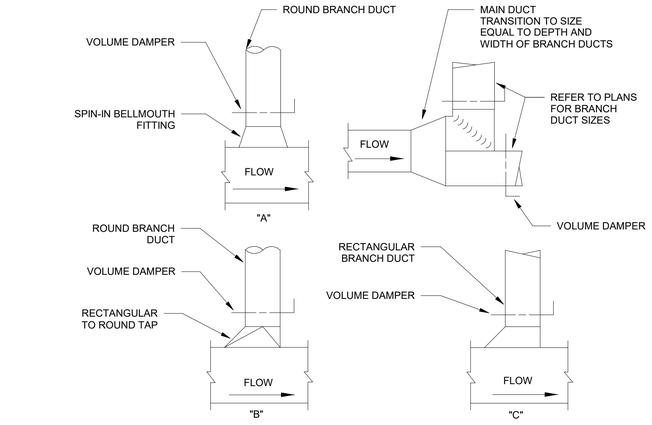
1 CONDENSER UNIT DETAIL
NOT TO SCALE

NOTES:

PROVIDE ACCESS TO CONDENSER UNIT PER MANUFACTURER RECOMMENDATIONS



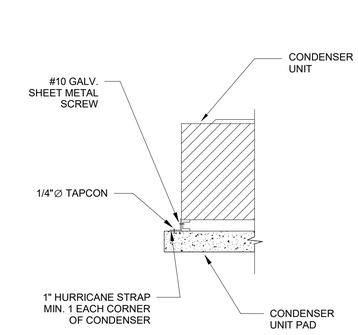
2 VERTICAL AIR HANDLER UNIT DETAIL
NOT TO SCALE



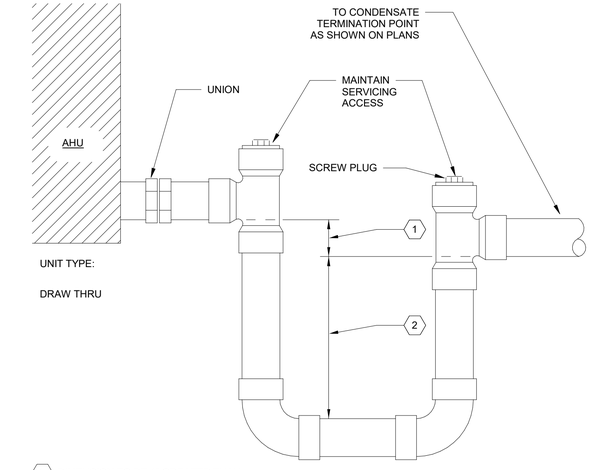
NOTES:

1. USE TYPE "A" CONNECTION ONLY FOR BRANCHES TO SINGLE DIFFUSERS, TERMINAL BOXES OR GRILLES FROM THE MAIN.
2. USE TYPE "B" OR "C" BRANCH WHERE BRANCH FLOW IS 20% OR LESS OF MAIN.
3. USE TEE SPLIT WHERE BRANCH FLOW IS MORE THAN 20% OF MAIN.
4. FOR TYPE "A" CONNECTION TO DIFFUSERS, THE ROUND DUCT RUN-OUT SIZE SHALL BE THE SAME SIZE AS THE NECK OF DIFFUSER, UNLESS OTHERWISE INDICATED.

3 BRANCH DUCT DETAIL
NOT TO SCALE



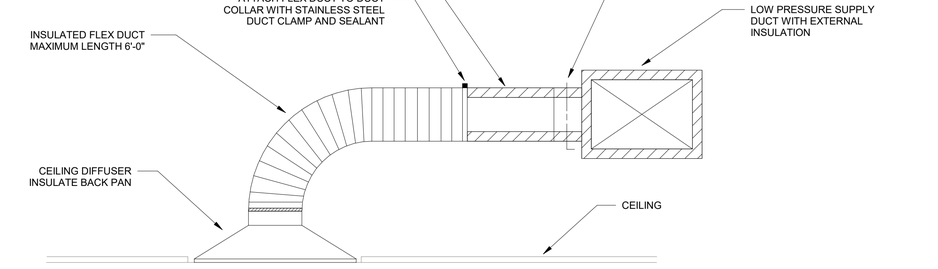
4 CONDENSER TIE DOWN DETAIL
NOT TO SCALE



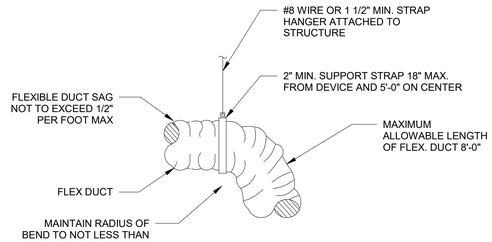
1 DIMENSION TO BE 1" GREATER THAN SUCTION PRESSURE OF UNIT (IN. W.G.)

2 DIMENSION TO BE 1/2 TOTAL PRESSURE OF UNIT (IN. W.G.)

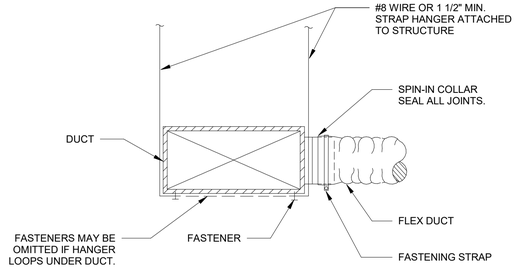
6 CONDENSATE DRAIN DETAIL
NOT TO SCALE



7 DIFFUSER CONNECTION DETAIL
NOT TO SCALE

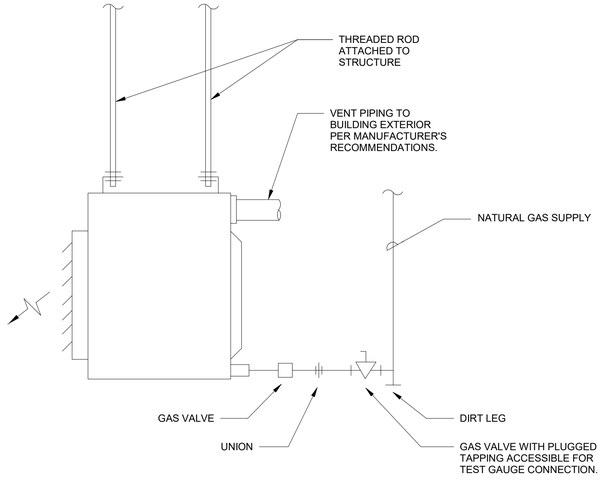


FLEX DUCT



RIGID RECTANGULAR DUCT

8 DUCTWORK SUPPORT DETAIL
NOT TO SCALE



9 GAS-FIRED UNIT HEATER DETAIL
NOT TO SCALE

5 CONDENSER UNIT PAD DETAIL
NOT TO SCALE

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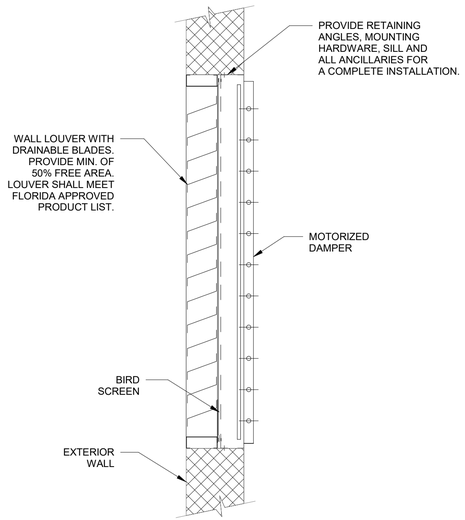
SHEET

M501



1 LOUVER DETAIL
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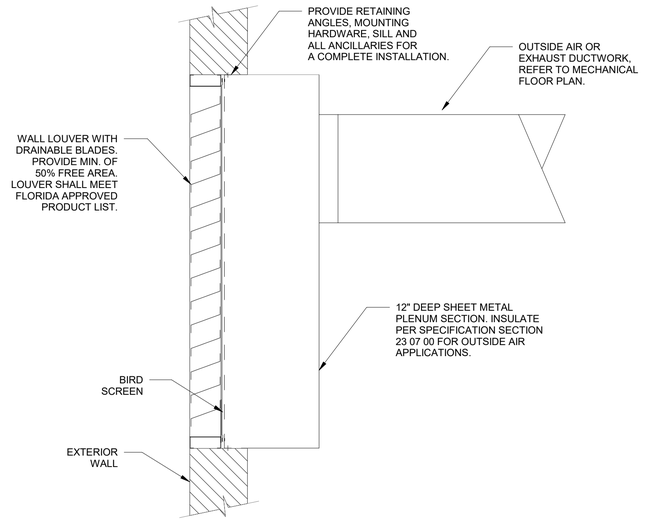

2 OUTSIDE AIR LOUVER DETAIL
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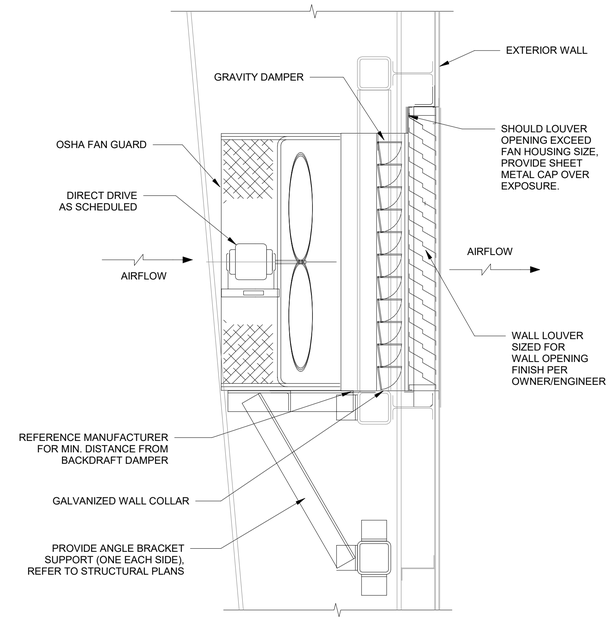
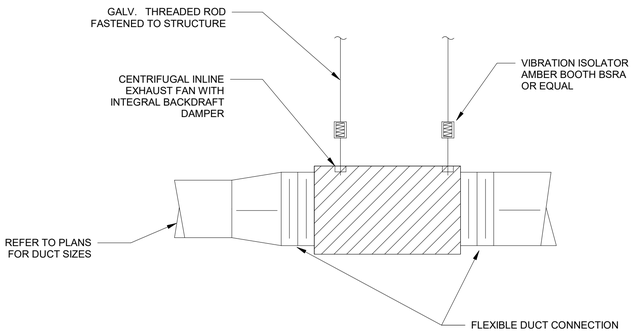


3 PROP FAN DETAIL
NOT TO SCALE



4 INLINE FAN DETAIL
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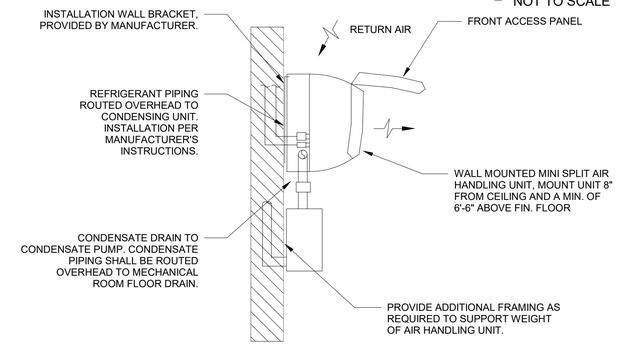
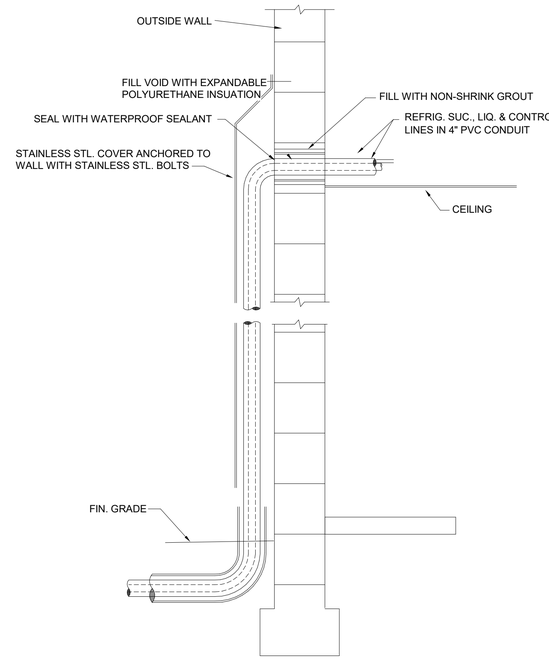


5 MINI SPLIT AIR HANDLER DETAIL
NOT TO SCALE



6 REFRIGERATION PIPE DETAIL
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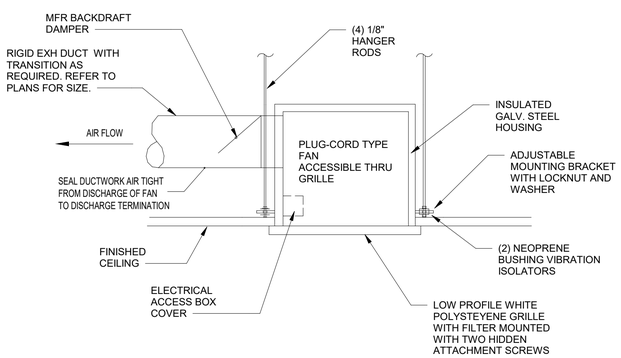
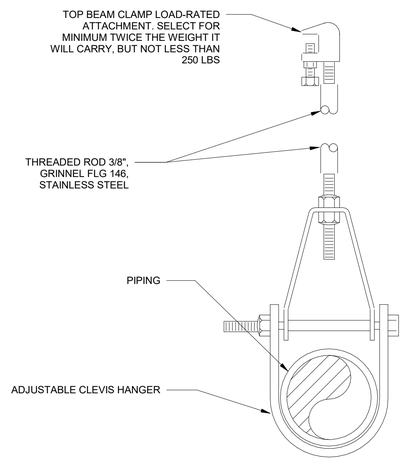


7 CEILING CABINET EXH. FAN DETAIL
NOT TO SCALE



8 PIPE HANGER DETAIL - HVAC
NOT TO SCALE

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SHEET
M502

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

1. INDOOR FAN COIL UNITS SHALL BE CONFIGURED FOR VERTICAL INSTALLATION.
2. PROVIDE SLOPED DRAIN PAN.
3. PROVIDE 1" MERV 8 THROW-AWAY FILTER.
4. UNIT SHALL HAVE DIRECT DRIVE FAN WITH VARIABLE SPEED OPERATION.
5. PROVIDE SIDE ACCESS PANELS.
6. CONDENSER UNIT SHALL HAVE SCROLL COMPRESSOR.
7. CONTROLS: PROVIDE PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL INCORPORATE 7-DAY OCCUPANCY SHCEDULE, SET BACKS, OVERRIDES. IN NORMAL OPERATION UNIT SHALL CYCLE TO MAINTAIN TEMPERATURE SET POINTS.
8. PROVIDE 1 STAGE AUX, ELECTRIC HEATING COIL.
9. SPLIT SYSTEM HEAT PUMPS SHALL BE REMOTELY MOUNTED FOR STATUS AND SPACE TEMPERATURE.
10. SPLIT SYSTEM HEAT PUMP UNITS SHALL BE TRANE OR APPROVED EQUAL.
11. PROVIDE FACTORY APPLIED COASTAL COATING ON CONDENSER UNIT COIL CAPABLE OF WITHSTANDING SALT SPRAY TEST PER ASSTM B117 FOR 1500 HOURS.

				FAN SECTION						COOLING COIL SECTION						HEATING DATA		CONDENSER UNIT				ELECTRICAL DATA							
								MOTOR DATA				E.A.T. (F)		L.A.T. (F)															
PLAN MARK	LOCATION	SERVES	AHRI SEER	TOTAL (CFM)	OSA (CFM)	WHEEL TYPE	E.S.P. IN. WG.	R.P.M.	H.P.	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	D.B.	W.B.	D.B.	W.B.	CAPACITY (MBH)	AUX. HEATING CAPACITY (KW)	PLAN MARK	NO COMP.	CAPACITY STEPS	REFRIG.	TYPE	VOLTS	PH	TYPE	VOLTS	PH	UNIT WT. (LBS)	MANUFACTURER - TRANE MODEL NO.
FCU-1	MECHANICAL RM	OFFICES	15.4	1400	165	DIRECT	0.60	1050	0.75	40.0	34.2	79.7	65.3	56.7	55.6	24.6	7.2	CU-1	1	1	R-410A	FCU-1	208	1	CU-1	208	1	166 (AHU) 227 (CU)	4TWR5042N1 (AHU) GAM5B0C48M41 (CU)
FCU-2	MECHANICAL RM	OFFICES	15.4	1000	130	DIRECT	0.60	1050	0.75	28.6	25.2	80.0	64.8	56.3	55.0	18.1	5.8	CU-2	1	1	R-410A	FCU-2	208	1	CU-2	208	1	142 (AHU) 197 (CU)	4TWL5030N1 (AHU) GAM5B0B36M31 (CU)

MINI-SPLIT DX SYSTEM UNIT SCHEDULE

1. AIR HANDLER SHALL BE CONFIGURED FOR HIGH WALL MOUNT INSTALLATION.
2. PROVIDE SLOPED DRAIN PAN.
3. PROVIDE 30% ILTER.
4. PROVIDE FRONT ACCESS PANELS.
5. CONTROLS: PROVIDE PROGRAMMABALE THERMOSTAT, THERMOSTAT SHALL INCORPORATE 7-DAY OCCUPANCY SCHEDULE, SETBACKS, OVERRIDES. IN NORMAL OPERATION UNIT SHALL CYCLE TO MAINTAIN TEMPERATURE SETPOINTS.
6. PROVIDE FACTORY APPLIED COASTAL COATING ON CONDENSER COILS CAPABLE OF WITHSTANDING SALT SPRAY TEST PER ASTM B117 FOR 1500 HOURS.

INDOOR AIR HANDLER UNIT										OUTDOOR AIR-COOLED HEATPUMP OR CONDENSING UNIT										
					COOLING COIL SECTION	HEATING COIL SECTION														
PLAN MARK	UNIT TYPE	SERVES	TOTAL (CFM)	OSA (CFM)	TOTAL CAP. (MBH)	HEATING CAP. (MBH)	MODEL NO. (TRANE)	WEIGHT (LBS)	VOLTS	PH	PLAN MARK	SEER	NO. COMP.	CAPACITY STEPS	REFRIG.	WEIGHT (LBS)	MODEL NO. (TRANE)	VOLTS	PH	MCA	MOCP
AHU-3	DATA-COM RM	DATA-COM RM	590	0	21.4	23.0	4MXW8524A1	35.2	208	1	CU-3	18	1	1	R-410A	132.1	4TXK8524A1	208	1	16	20

FAN SCHEDULE

1. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
2. PROVIDE GRAVITY BACKDRAFT DAMPER WHERE SHOWN ON THE FAN DETAILS.
3. EXHAUST FANS SHALL BE GREENHECK OR APPROVED EQUAL.
4. FAN CONTROL WHERE SHOWN ON THE PLANS.
5. PROVIDE ECM MOTOR FOR MANUAL SPEED CONTROL WITH POTENTIOMETER DIAL FOR ALL SINGLE SPEED FAN MOTORS.
6. EXHAUST FANS EF-3 AND EF-4 SHALL BE INTERLOCKED WITH MOTORIZED DAMPERS FOR LOUVERS L-3 AND L-4 AS NOTED ON PLAN. PROVIDE RELAYS AND CONTACTS AS REQUIRED.
7. PROVIDE GREENHECK NEMA 3R MSAC MOTOR STARTER OR EQUIVALENT FOR EF-3 AND EF-4. MOTOR STARTER SHALL HAVE AUXILIARY CONTACT FOR INTERLOCKING LOUVER DAMPER ACTUATOR. REFER TO ELECTRICAL WIRING DIAGRAM ON SHEET E601.
8. MECHANICAL CONTRACTOR SHALL PROVIDE LINE VOLTAGE OR MOTOR RATED THERMOSTAT FOR CONTROL OF MOTOR STARTER AND LOUVER DAMPER ACTUATOR FOR EF-3 AND EF-4.

							MOTOR DATA							
MARK	LOCATION	TYPE	DRIVE	CFM	S.P. IN. WG.	R.P.M.	FLA	HP	VOLTS	PH	WEIGHT (LBS)	DIMENSIONS (LxWxH)	MANUFACTURER MODEL NO.	CONTROL/INTERLOCK
CF-1	HANGAR	HVLS		125,585		34	3.5		460	3	251	24 FT. DIAMETER	GREENHECK DS-6-24-170HV	CF CONTROLLER
EF-1	RESTROOMS	INLINE	DIRECT	225	0.40	1157	1.5	0.05	115	1	24	14 x 12 x 11	GREENHECK CSP-A390-VG	INTERLOCK WITH FCU-1/CU-1
EF-2	JANITOR'S CLOSET	CEILING	DIRECT	75	0.25	900	0.2	0.01	115	1	12	13 x 11 x 9	GREENHECK SP-A90	LIGHT SWITCH
EF-3	HANGAR	PROPELLER	DIRECT	6,000	0.40	1160	4.6	1.00	208	3	0	32 x 32 x 20	GREENHECK AER-24-02-0623	THERMOSTAT
EF-4	HANGAR	PROPELLER	DIRECT	6,000	0.40	1160	4.6	1.00	208	3	0	32 x 32 x 20	GREENHECK AER-24-02-0623	THERMOSTAT

LOUVER SCHEDULE

1. LOUVERS SHALL BE 5" DEEP LOUVER, EXTRUDED ALUMINUM CONSTRUCTION, AND EPOXY COATED. PROVIDE EXPANDED, FLATTENED ALUMINUM BIRDSCREEN IN REMOVABLE FRAME. COLOR SHALL BE SELECTED BY ARCHITECT.
2. LOUVERS SHALL MEET AMCA 550 CRITERIA FOR HIGH VELOCITY WIND DRIVEN RAIN RESISTANT LOUVERS AND SHALL HAVE FLORIDA PRODUCT APPROVAL.
3. CONTRACTOR SHALL PROVIDE WALL SLEEVE AND OTHER APPURTENANCES NECESSARY FOR A COMPLETE OPERATING SYSTEM.
4. GRAVITY DAMPERS SHALL BE EXTRUDED ALUMINUM CONSTRUCTION WITH COUNTER BALANCED WEIGHTS. DAMPERS SHALL BE RATED FOR VELOCITY OF 2000 FPM AND PRESSURE TO 2.5" W.G. DAMPERS SHALL BE MOUNTED VERTICALLY FOR HORIZONTAL AIR FLOW. PROVIDE WALL SLEEVE WITH LENGTH AS REQUIRED TO MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE BETWEEN LOUVER, DAMPER AND FAN.
5. PROVIDE SPRING RETURN ACTUATOR FOR MOTORIZED DAMPERS WITH TORQUE RATING AND TIMING IN ACCORDANCE WITH LOUVER MANUFACTURER'S REQUIREMENTS. ACTUATORS SHALL BE 120V/1PHASE MANUFACTURED BY BELIMO OR HONEYWELL.
6. MOTORIZED DAMPERS FOR LOUVERS L-3 AND L-4 SHALL BE INTERLOCKED WITH EXHAUST FANS EF-3 AND EF-4 AS NOTED ON PLAN. PROVIDE RELAYS AND CONTACTS AS REQUIRED.

MARK	FUNCTION	SERVICE	MANUFACTURER	MODEL	CFM	PRESSURE DROP (IN. WG)	SIZE (W" X H" X D")	FREE AREA (FT2)	DAMPER TYPE
L-1	EXHAUST	HANGAR	GREENHECK	EVH-501D	6,000	0.12	44 x 44 x 5	7.1	GRAVITY
L-2	EXHAUST	HANGAR	GREENHECK	EVH-501D	6,000	0.07	44 x 44 x 5	7.1	GRAVITY
L-3	INTAKE	HANGAR	GREENHECK	EVH-501D	6,000	0.06	48 x 48 x 5	8.8	MOTORIZED
L-4	INTAKE	HANGAR	GREENHECK	EVH-501D	6,000	0.06	48 x 48 x 5	8.8	MOTORIZED

GAS-FIRED UNIT HEATER SCHEDULE

1. PROVIDE 24V STEP-DOWN TRANSFORMER FOR CONTROLS.
2. PROVIDE MANUFACTURER'S DISCONNECT SWITCH.
3. PROVIDE TWO-STAGE NATURAL GAS VALVE.
4. PROVIDE 409 STAINLESS STEEL HEAT EXCHANGER.
5. PROVIDE WALL-MOUNTED THERMOSTATS WITH LOCKABLE COVERS.
6. PROVIDE WALL SUSPENSION KIT. UNIT HEATERS SHALL BE MOUNTED 10'-0" ABOVE UPPER SURFACE OF WINGS OR ENGINE ENCLOSURE OF DESIGN AIRCRAFT.
7. PROVIDE HORIZONTAL COMBUSTION AIR AND VENTILATION KIT INCLUDING CONCENTRIC ADAPTER BOX FROM MANUFACTURER.
8. PROVIDE 45 DEG DOWN NOZZLE WITH HORIZONTAL ADJUSTABLE BLADES.

				ELECTRICAL DATA										
TAG	MANUFACTURER	MODEL	CFM	HP	FLA	VOLTS	PH	MCA	MOCP	INPUT HEATING CAP. (MBH)	OUTPUT HEATING CAP. (MBH)	NATURAL GAS CONN. SIZE (IN)	VENT/COMBUST. CONN. SIZE (IN)	WEIGHT (LBS)	THERMAL EFF. (%)	REMARKS
UH-1	REZNOR	UBZ-60	800	0.2	3.7	115	1	0.0 A	15	60.0	49.2	1/2"	4"	103	83	
UH-2	REZNOR	UBZ-60	800	0.2	3.7	115	1	0.0 A	15	60.0	49.2	1/2"	4"	103	83	
UH-3	REZNOR	UBZ-60	800	0.2	3.7	115	1	0.0 A	15	60.0	49.2	1/2"	4"	103	83	
UH-4	REZNOR	UBZ-60	800	0.2	3.7	115	1	0.0 A	15	60.0	49.2	1/2"	4"	103	83	

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE

1. ALL HVAC DUCTWORK AND EXHAUST FANS SHALL BE SECURELY SUPPORTED FROM THE STRUCTURAL MEMBERS AND NOT FROM THE ACOUSTICAL TILE CEILING.
2. CEILING GRILLES TO BE PROVIDED WITH BORDER FOR SURACE MOUNTING.
3. GRILLES AND REGISTERS TO BE PROVIDED WITH BACK PAN INSULATION.

MARK	TYPE	MAX NC LEVEL	MAX PD (IN. WG.)	SIZE INCHES (FACE/NECK)	MATERIAL	FINISH	MANUFACTURER MODEL NUMBER	REMARKS
A	CEILING SUPPLY GRILLE	20	0.069	SEE PLANS	ALUM.	WHITE	TITUS TMS-AA	PROVIDE O.B.D.
B	CEILING RETURN AND EXHAUST GRILLE		0.050	SEE PLANS		WHITE	TITUS 50F	PROVIDE O.B.D.

ROOF VENTILATOR SCHEDULE

1. ALL HOODS SHALL BE PROVIDED WITH BIRD SCREENS.
2. TOPS OF ALL HOODS SHALL BE SOUND DEADENED AND INSULATED FOR CONDENSATION AND NOISE CONTROL.
3. PROVIDE BAROMETRIC BACK-DRAFT DAMPER AND MIN. 14 INCH HIGH ROOF CURB.

				THROAT				
MARK	TYPE	MANUFACTURER MODEL NUMBER	CFM	DIMENSIONS (IN.)	VELOCITY	UNIT HEIGHT	PRESSURE DROP IN. WG.	WEIGHT (LBS)
IV-1	INTAKE	Greenheck / GRSI-10	295	10	520 FPM	20	0.045	8
RV-1	RELIEF	Greenheck / GRSR-8	200	8	540 FPM	19	0.030	7

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www.avconinc.com

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

ENGINEER OF RECORD:
NAME:
FL. LICENSE NO.:

NO.	DATE	REVISIONS:	BY

MECHANICAL SCHEDULES

RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	JC
DRAWN BY:	JC
CHECKED BY:	ZP
APPROVED BY:	ZP
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET
M601

ELECTRICAL GENERAL NOTES

1. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS.
2. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND THE OMISSION OF AN ITEM NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THAT ITEM.
3. GENERAL ELECTRICAL NOTES LISTED BELOW APPLY TO ALL ELECTRICAL SHEETS, INCLUDING ALL DETAILS, SECTIONS, AND/OR DRAWINGS ISSUED AS ADDENDA TO THESE DRAWINGS.
4. ALL WORK SHALL COMPLY WITH CODES AND STANDARDS LISTED ON THE DRAWINGS AND PER THE SPECIFICATIONS.
5. PHENOLIC LABELS SHALL BE PROVIDED FOR ALL 2-POLE AND 3-POLE BREAKERS WITHIN ALL SWITCHGEAR, DISTRIBUTION PANELS AND PANELBOARDS.
6. PHENOLIC LABELS SHALL BE PROVIDED FOR ALL SWITCHGEAR, DISTRIBUTION PANELS, PANELBOARDS AND ALL 2 POLE OR 3 POLE EQUIPMENT, SEE PHENOLIC LABEL DETAILS FOR INFORMATION REQUIRED FOR ALL LABELS.
7. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR RESPECTIVE CONDUIT/CONDUCTORS, DISCONNECTS, MISC. EQUIPMENT REQUIRED FOR ALL MECHANICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE ALL MECHANICAL LOADS, VOLTAGES AND LOCATIONS WITH EQUIPMENT INSTALLER AND MAKE ANY NECESSARY ADJUSTMENT WITHOUT EXTRA CHARGES.
8. MOUNT ALL EQUIPMENT SAFETY SWITCHES / DISCONNECT SWITCHES WITHIN 6FT OR LINE OF SIGHT OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONTACT WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF EQUIPMENT LOCATION.
9. WHERE DRAWINGS SHOW CONDUIT ROUTE, THE CONDUIT IS SHOWN ON FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT. THE ROUTINGS SHOWN ARE PROPOSED CONDUIT ROUTES. CONTRACTOR TO COORDINATE ALL ROUTING WITH OTHER TRADES PRIOR TO BID. CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY CONDUIT FROM THE PROPOSED ROUTING SHOWN TO BE ROUTING REQUIRED TO FACILITATE INSTALLATION PER SPECIFICATIONS AND APPLICABLE CODES, COMPLETE WITH ALL COORDINATION TAKEN INTO ACCOUNT.
10. THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE PLANS, SPECIFICATIONS, AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND/OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.
11. IN THE EVENT OF CONTRADICTIONS, ON THESE PLANS FROM SHEET TO SHEET (ELECTRICAL, MECHANICAL, ARCHITECTURAL, CIVIL AND/OR STRUCTURAL), THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE COST OF THE MOST RESTRICTIVE (COSTLY) ACTION SPECIFIED. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S AND ENGINEER'S ATTENTION PRIOR TO THE PRE-CONSTRUCTION MEETING FOR CLARIFICATION OF THE WORK TO BE PERFORMED. ANY COSTS GENERATED AS A RESULT OF FAILURE TO IDENTIFY THESE DISCREPANCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. SHOULD ANY QUESTIONS AND/OR DISCREPANCIES ARISE REGARDING THE CONTRACT DOCUMENTS AND/OR FIELD CONDITIONS, THE CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER FOR PROPER INTERPRETATION AND/OR CLARIFICATION PRIOR TO THE COMMENCEMENT OF ANY WORK. IN THE ABSENCE OF SUCH REQUEST AND/OR AUTHORIZATION FROM THE ARCHITECT /ENGINEER, THE CONTRACTOR WILL BE PROCEEDING AT HIS OWN RISK.
13. THE ELECTRICAL CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED AND APPROVED BY ELECTRICAL INSPECTOR AND/OR ARCHITECT/ENGINEER. THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF A SCHEDULED INSPECTION TIME WITHIN 72 HOURS.
14. WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, THE CONTRACTOR SHALL MAKE COMPOSITE DRAWINGS SHOWING THE EXACT LOCATION OF DUCTS, CONDUIT, AND EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD MEASUREMENTS AND, AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER BEFORE INSTALLATION OF THE WORK.
15. FOR SPACES WITH INACCESSIBLE HARD CEILINGS OR PLUMBING CHASES, PROVIDE 30" x 30" HINGED ACCESS PANELS AS REQUIRED FOR ELECTRICAL EQUIPMENT ACCESS OR CLEARANCE.
16. SPLICES IN POWER AND LIGHTING OUTLET BOXES SHALL BE KEPT TO A MINIMUM, PULL CONDUCTORS THROUGH TO DEVICES, EQUIPMENT CABINETS / PANELBOARDS. SPLICING IN WIREWAYS IS PROHIBITED UNLESS SPECIAL WRITTEN PERMISSION IS GRATED BY A/E.
17. NO SPLICES SHALL BE MAKE IN UNDERGROUND (OR FLUSH) IN-GRADE PULL BOXES UNLESS SPECIAL SPECIFIC WRITTEN PERMISSION HAS BEEN GRANTED BY ENGINEER OF RECORD.
18. THE ELECTRICAL CONTRACTOR IS TO PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT AND RACEWAYS WITH LABELING TAGS AT EACH END.
19. COORDINATE LIGHTING, SWITCHING, AND RECEPTACLE LOCATIONS IN MECHANICAL SPACES WITH RESPECT TO ACTUAL MECHANICAL EQUIPMENT INSTALLATION FOR OPTIMUM LIGHTING AND UTILIZATION OF RECEPTACLES.
20. CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT ACCESS AND WORKING SPACE ABOUT ALL ELECTRICAL EQUIPMENT AS REQUIRED BY NEC 110.26.
21. CONDUCTORS: FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE THHN COPPER (MINIMUM SIZE #12 UNLESS OTHERWISE NOTED). NO ALUMINUM SHALL BE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE. INSTALL ALL WIRING IN CONDUIT OR APPROVED RACEWAYS UNLESS OTHERWISE INDICATED. ALL RACEWAYS SHALL HAVE A GREEN GROUNDING CONDUCTOR. ALL BRANCH CIRCUITS SHALL CARRY A GROUNDING EQUIPMENT CONDUCTOR, AND BE WIRED WITH COLOR-CODED WIRE WITH THE SAME COLOR USED FOR A PHASE THROUGHOUT. COLOR-CODE SHALL BE AS FOLLOWS:
    a. 120/208 VOLT: PHASE A - BLACK; PHASE B - RED; PHASE C - BLUE; NEUTRAL - WHITE; GROUND - GREEN.
22. RACEWAYS AND FITTINGS: ALL RACEWAYS AND FITTINGS SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METAL CONDUIT WITH LOCKNUTS AND BUSHINGS, WITH THE EXCEPTION THAT WHERE SPECIFICALLY ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES. ELECTRICAL METALLIC TUBING (E.M.T) MAY BE USED FOR ALL INTERIOR EXPOSED AND CONCEALED WORK WHERE IT IS NOT SUBJECT TO PHYSICAL DAMAGE OR CORROSION. FITTINGS SHALL BE STEEL SET SCREW TYPE. NO BX CABLE ALLOWED. EXPOSED CONDUIT IS NOT PERMITTED IN FINISHED OFFICE AREAS. INSTALL EXPANSION FITTINGS IN RACEWAYS EVERY 200' LINEAR RUN OR WHEREVER STRUCTURAL EXPANSION JOINTS ARE CROSSED.
23. MATERIALS SHALL BE NEW AND UNUSED AND THE CATALOGUED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH MATERIALS. THE MATERIALS SHALL BE OF THE MANUFACTURER'S LATEST STANDARD DESIGN THAT COMPLIES WITH THE SPECIFICATION REQUIREMENTS.
24. CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS, WALLS OR FLOORS SHALL BE SEALED AND FIREPROOFED USING APPROVED FIRE STOPPING COMPOUND. REFER TO EXISTING ARCHITECTURAL FLOOR PLAN FOR LOCATION OF FIRE RATED PARTITIONS PRIOR TO BID. FIRESTOPPING SYSTEM SHALL BE USED AS REQUIRED BY UL FOR RATING OF WALL OR FLOOR CONDUIT/CABLE PENETRATION.

ELECTRICAL GENERAL NOTES, CONT.

25. REVIEW AND COORDINATE WITH DIV. 23 DRAWINGS FOR EQUIPMENT, CONDUIT, DEVICES, ETC. REQUIRED FOR A COMPLETE AND OPERATING HVAC SYSTEM. LOW VOLTAGE CONTROL WIRING FURNISHED AND INSTALLED BY DIVISION 23. CHECK ALL MOTORS AND ROTATING EQUIPMENT FOR PROPER ROTATION.
26. ELECTRICAL CONTRACTOR SHALL INCLUDE CUTTING AND PATCHING FOR THE INSTALLATION OF THEIR WORK WITHIN BASE BID.
27. CONTRACTOR SHALL PROVIDE AS BUILT ELECTRICAL DRAWINGS AT THE COMPLETION OF THE PROJECT.
28. CONTRACTOR REPRESENTS THAT THEIR BID IS BASED UPON THE MANUFACTURER'S MATERIALS AND EQUIPMENT DESCRIBED IN THE CONTRACT DOCUMENTS.
29. ALL EQUIPMENT SHOWN IS TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
30. ELECTRICAL EQUIPMENT BASIS OF DESIGN IS AS NOTED ON PLANS. ACCEPTABLE EQUIVALENT EQUIPMENT MAY BE SUBMITTED FOR REVIEW.

CODES & STANDARDS REQUIREMENTS

CONFORM TO ALL THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CODE, STANDARDS, GUIDELINES, ETC. IF THERE SHOULD BE CONFLICTING REQUIREMENTS BETWEEN THESE CODES, STANDARDS, GUIDELINES, ETC., THE MORE OR MOST STRINGENT REQUIREMENT SHALL APPLY THAT DOES NOT VIOLATE ANY CODES.

a. [NFPA 70] NATIONAL ELECTRIC CODE (NEC), 2017 EDITION
b. [NFPA 72] NATIONAL FIRE ALARM CODE, 2016 EDITION
c. [NFPA 101] LIFE SAFETY CODE, 2018 EDITION
d. [NFPA 110] STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, 2016 EDITION
e. [NFPA 780] STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS, 2020 EDITION
f. 2018 NORTH CAROLINA ENERGY CONSERVATION CODE
g. LOCAL GOVERNMENT AND 2018 NORTH CAROLINA STATE BUILDING CODE

TYP. MOUNTING HEIGHTS

CEILING	SMOKE AND HEAT DETECTORS, 360° SECURITY MOTION DETECTORS, CCTV SURVEILLANCE CAMERAS, PUBLIC ADDRESS AND VOICE EVACUATION SPEAKERS, WIRELESS ACCESS POINTS, CEILING MOUNTED JUNCTION BOXES FOR RECEPTACLES AND TV OUTLETS, LIGHT FIXTURES AND CEILING MOUNTED EXIT SIGNS.
8'-0" AFF	EXTERIOR VISUAL AND AUDIO/VISUAL FIRE ALARM NOTIFICATION DEVICES, EXTERIOR PUBLIC ADDRESS SPEAKERS.
7'-6" AFF	CLOCKS, COMBINATION CLOCK/SPEAKERS, TRUMPET SPEAKERS
6" ABOVE DOOR JAMB	REQUEST TO EXIT MOTION DETECTORS
4" ABOVE DOOR JAMB	EXIT SIGNS, EMERGENCY LIGHTING FIXTURES
7'-0" AFF	TOP OF PANELBOARD, LIGHTING PANELBOARD, DISTRIBUTION PANEL, LIGHTING CONTROL PANEL MAX, VISUAL AND AUDIO/VISUAL FIRE ALARM NOTIFICATION DEVICES, WALL MOUNTED SECURITY MOTION DETECTORS (CENTER OF DEVICE)
6'-8" AFF	TOP OF DOOR
5'-6" AFF	TV RECEPTACLES, TOP OF PLYWOOD TELEPHONE BACKBOARD
5'-4" AFF	FIRE ALARM ANNUNCIATOR PANELS, FIRE FIGHTER CONTROL STATIONS, SECURITY ANNUNCIATOR PANELS
4'-8" AFF MAX	PEDESTAL MOUNT INTERCOM PEDESTAL MOUNT CARD READER
4'-0" AFF	LIGHT SWITCHES, (WALL MOUNTED)-TELEPHONE INSTRUMENTS, MICROPHONE JACKS, INTERCOM STATIONS, FIRE FIGHTER TELEPHONE JACKS, FIRE ALARM MANUAL STATIONS, CARD READERS, MANUAL REQUEST TO EXIT DEVICES, WALL MOUNTED DURESS ALARM STATIONS, RESCUE ASSISTANCE PANELS, LCD KEYPADS (CENTER OF DEVICE)
3'-6" AFF	COUNTERTOP HEIGHT RECEPTACLES OR LIGHT SWITCHES
3'-0" AFF	COUNTERTOP HEIGHT
UNDER DESK	DURESS ALARM BUTTONS, DOOR RELEASE BUTTONS
1'-6" AFF	RECEPTACLE OUTLETS, DATA/VOICE JACKS, LOW TELEVISION JACKS, MICROPHONE JACKS
0'-0" AFF	IN FLOOR JUNCTION BOXES FOR RECEPTACLES, DATA/VOICE JACKS

THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS.

COORDINATE THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES WITH DOA, DESIGN PROFESSIONAL AND ALL AFFECTED TRADES PRIOR TO INSTALLATION. DOCUMENT ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES AT THE TIME OF SHOP DRAWING SUBMITTAL

IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSING.

STANDARD ABBREVIATIONS

A	AMPERES
AC / CU	AIR CONDITIONER / CONDENSING UNIT
A.C.	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLER UNIT (HVAC)
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BBS	BELOW BOTTOM OF SLAB
BF	BIG/LARGE RADIUS INDUSTRIAL FANS
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CKT	CIRCUIT
COMM	COMMUNICATIONS
C.U.	COPPER
C/B	CIRCUIT BREAKER
C/T	CURRENT TRANSFORMERS
Δ	DELTA
D.C.	DIRECT CURRENT
DIA	DIAMETER
DWG	DRAWING
DVP	DIVERTER VALVE PANEL
EF	EXHAUST FAN (HVAC)
EQUIP	EQUIPMENT
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FIDS	FLIGHT INFORMATION DISPLAY SYSTEM
FOC	FIBER OPTIC CABLE
FOTC	FIBER OPTIC TERMINAL CABINET
FLA	FULL LOAD AMPS
FT	FEET
G, GND	GROUND
GAA	GENERATOR ANNUNCIATOR ALARM
GEN	GENERATOR
GF	GROUND FAULT
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HH	HAND HOLE
HVAC	HEATING, VENTILATION & AIR CONDITION
IG	ISOLATED GROUND
kCMIL	THOUSAND CIRCULAR MILLS WIRE
kVA	KILOVOLT AMPERES
KW	KILOWATTS
JB	JUNCTION BOX
LCP	LIGHTING CONTROL PANEL
LRP	LIGHTING RELAY PANEL
LSIA	LONG, SHORT, INSTANT FAULT ALARM
LSIG	LONG, SHORT, INSTANT GROUND FAULT
LTG	LIGHTING
MAINT	MAINTENANCE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECANICAL
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOC.
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OSB	OIL/WATER SEPERATOR PANEL
ϕ	PHASE
P	POLES
PB	PULL BOX
PE	PHOTO ELECTRIC SENSOR
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
R	RECESSED
REC	RECEPTACLES
SPD	SURGE PROTECTION DEVICE
SURF	SURFACE
TECH	TECHNOLOGY
TEMP	TEMPERATURE
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
TV	TELEVISION
UG	UNDERGROUND
UL	UNERWRITERS' LABRATORIES
UNIV	UNIVERSAL
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SUPPLY
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WP	WEATHERPROOF ENCLOSURE
WPG	WEATHERPROOF GFI RECEPTACLE
XFMR	TRANSFORMER
Y	WYE

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

ENGINEER OF RECORD:
NAME:
FL. LICENSE NO.:

NO.	DATE	REVISIONS:	BY

ELECTRICAL GENERAL NOTES

RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	KB
DRAWN BY:	KB
CHECKED BY:	SD
APPROVED BY:	SD
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET
E001

LEGEND NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR IN THIS PROJECT DRAWING SET. REFER TO ELECTRICAL GENERAL NOTES FOR ABBREVIATION LIST AND SPECIFICATIONS FOR MOUNTING HEIGHTS

ELECTRICAL SYMBOL LEGEND

POWER DISTRIBUTION EQUIPMENT

	MAIN SERVICE DISTRIBUTION SWITCHGEAR, SEE RISER DIAGRAM AND PANEL SCHEDULE FOR DETAILS
	MAIN / BRANCH DISTRIBUTION PANELBOARD, SEE RISER DIAGRAM AND PANEL SCHEDULE FOR DETAILS
	480Y/277V, 3Φ, 4W BRANCH PANELBOARD, SEE RISER DIAGRAM AND PANEL SCHEDULE FOR DETAILS
	208Y/120V, 3Φ, 4W BRANCH PANELBOARD, SEE RISER DIAGRAM AND PANEL SCHEDULE FOR DETAILS
	240/120V, 1Φ, 3W BRANCH PANELBOARD, SEE RISER DIAGRAM AND PANEL SCHEDULE FOR DETAILS
	RISER OR ONE-LINE DIAGRAM BRANCH LIGHTING PANELBOARD, MCB OR MLO TYPE. NAME, FRAME SIZE, VOLTAGE AND POLES AS NOTED.
ATS	ATS - AUTOMATIC TRANSFER SWITCH, SEE RISER DIAGRAM AND PANEL SCHEDULE FOR DETAILS
MBS	MBS - MAINTENANCE BY-PASS SWITCH, SEE RISER DIAGRAM AND PANEL SCHEDULE FOR DETAILS
	RISER OR ONE-LINE DIAGRAM AUTOMATIC TRANSFER SWITCH (ATS), NAME, FRAME SIZE, VOLTAGE AND POLES AS NOTED.
	DRY-TYPE TRANSFORMER MOUNTED TO 4" CONCRETE HOUSEKEEPING PAD UNLESS OTHERWISE NOTED, SEE RISER DIAGRAM AND PANEL SCHEDULE FOR DETAILS
DWKY	RISER OR ONE-LINE DIAGRAM DRY-TYPE STEP DOWN TRANSFORMER, DELTA - WYE CONFIGURATION. NAME, PRIMARY / SECONDARY VOLTAGE AND SIZE AS NOTED.
M	UTILITY METER BASE, SEE RISER DIAGRAM FOR DETAILS
	RISER OR ONE-LINE DIAGRAM UTILITY METER, NAME, VOLTAGE AND POLES AS NOTED.
	RISER OR ONE-LINE DIAGRAM UTILITY AM-METER INTERNAL OR EXTERNAL TO MAIN SWITCHGEAR OR DISTRIBUTION PANEL.
	RISER OR ONE-LINE DIAGRAM UTILITY VOLT METER INTERNAL OR EXTERNAL TO MAIN SWITCHGEAR OR DISTRIBUTION PANEL.
	RISER OR ONE-LINE DIAGRAM UTILITY INTERNAL CIRCUIT BREAKER TO MAIN SWITCHGEAR OR DISTRIBUTION PANEL.
ST	EMERGENCY SHUNT TRIP, MOUNTED 84" AFF FOR OUTDOOR USE AND 48" AFF FOR INDOOR USE UNLESS OTHERWISE NOTED, SEE RISER DIAGRAM FOR DETAILS
SPD	SURGE PROTECTION DEVICE, SEE RISER DIAGRAM FOR LOCATIONS AND SEE SPECIFICATIONS FOR DETAIL INFORMATION
MH	TRAFFIC RATED PRE-FORMED MAN HOLE OR APPROVED EQUAL
PB	24"x24" ELECTRICAL PULL BOX OR APPROVED EQUAL, UNLESS OTHERWISE NOTED
HH	12"x12" ELECTRICAL HAND-HOLE OR APPROVED EQUAL, UNLESS OTHERWISE NOTED
WW	ELECTRICAL WIRE WAY, CONTRACTOR TO SIZE ACCORDING TO NEC CODE, UNLESS OTHERWISE NOTED. SEE ELECTRICAL SPECIFICATIONS FOR DETAIL INFORMATION AND TYPE
PP	PP - FLOOR TO CEILING POWER POLE FOR POWER AND DATA CABLE FOR DISTRIBUTION THROUGH CEILING
EGB	EGB - ELECTRICAL GROUND BAR

POWER EQUIPMENT

	DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT 18" AFF, UNLESS OTHERWISE NOTED
GFI	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT 18" AFF, UNLESS OTHERWISE NOTED
C	OUTLET CONTROLLED, VIA LIGHTING CONTROLLER, DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT 18" AFF, UNLESS OTHERWISE NOTED
EWC	DEDICATED ELECTRIC WATER COOLER GFI DUPLEX RECEPTACLE, SEE PLUMBING PLANS FOR LOCATION, STANDARD MOUNTING HEIGHT 18" AFF, UNLESS OTHERWISE NOTED
IG	ISOLATED GROUND FAULT DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT 18" AFF, UNLESS OTHERWISE NOTED
MW	DEDICATED MICROWAVE GFI DUPLEX RECEPTACLE, CONTRACTOR TO COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT LOCATION.
REF	DEDICATED REFRIGERATOR DUPLEX RECEPTACLE, CONTRACTOR TO COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT LOCATION.
WP	GFI DUPLEX RECEPTACLE IN WEATHERPROOF BOX w/ COVER, STANDARD MOUNTING HEIGHT 18" AFF, UNLESS OTHERWISE NOTED
	COUNTERTOP GFI DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT 42" AFF, UNLESS OTHERWISE NOTED
	QUADRUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT 18" AFF, UNLESS OTHERWISE NOTED
	SIMPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT 18" AFF, UNLESS OTHERWISE NOTED
	METAL BACKBOX & DUPLEX RECEPTACLE FLUSH MOUNTED IN FLOOR w/ COVER, UNLESS OTHERWISE NOTED
	METAL BACKBOX & DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING w/ COVER, UNLESS OTHERWISE NOTED
DRY	208V / 230V 1Φ, 2 POLE, 3 WIRE DEDICATED SPECIALTY DRYER OUTLET MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED
	208V, 3Φ, 3 POLE, 4 WIRE DEDICATED SPECIALTY OUTLET MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED
	480V, 3Φ, 3 POLE, 4 WIRE DEDICATED SPECIALTY OUTLET MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED
TV	TV WALL BOX COMBINATION DUPLEX RECEPTACLE & DATA JACK OR HDMI OUTLET MOUNTED AT 72", UNLESS OTHERWISE NOTED
FIDS	FLIGHT INFORMATION DISPLAY SYSTEM (FIDS) WALL BOX COMBINATION DUPLEX RECEPTACLE & DATA JACK OR HDMI OUTLET MOUNTED AT 80", UNLESS OTHERWISE NOTED
	COMBO DUPLEX RECEPTACLE, (DV) VOICE/DATA JACK OUTLET AND BACK BOX. FLUSH MOUNTED IN FLOOR, METAL BOX w/ COVER UNLESS OTHERWISE NOTED
	COMBO QUAD RECEPTACLE, (DV) VOICE/DATA JACK OUTLET AND BACK BOX. FLUSH MOUNTED IN FLOOR, METAL BOX w/ COVER UNLESS OTHERWISE NOTED
J	FLOOR / WALL MOUNTED JUNCTION BOX, STANDARD SIZE 4"x4" METAL BOX UNLESS NOTED OTHERWISE
J	CEILING MOUNTED JUNCTION BOX, STANDARD SIZE 4" METAL BOX UNLESS NOTED OTHERWISE

WH	INSTANTANEOUS ELECTRIC WATER HEATER, SEE PLUMBING SCHEDULE FOR SIZE AND ELECTRICAL DATA
WH	ELECTRIC HOT WATER HEATER, SEE PLUMBING SCHEDULE FOR SIZE AND ELECTRICAL DATA
	RE-CIRCULATION PUMP, SEE PLUMBING SCHEDULE FOR SIZE AND ELECTRICAL DATA
AF	24V ELECTRIC AUTOMATIC FLUSH VALVE AND MINI TRANSFORMER, SEE PLUMBING SCHEDULE FOR SIZE AND ELECTRICAL DATA
AS	24V ELECTRIC AUTOMATIC SINK VALVE AND MINI TRANSFORMER, SEE PLUMBING SCHEDULE FOR SIZE AND ELECTRICAL DATA
TX	FLUSH VALVE TRANSFORMER JUNCTION BOX
D	ELECTRIC DRYER JUNCTION BOX FOR CIRCUIT CONNECTION
	ELECTRIC PUMP MOTOR, ID MARK WILL CORRESPOND WITH PLUMBING SCHEDULE FOR SIZE AND ELECTRICAL DATA
	ELECTRIC HVAC MOTOR, ID MARK WILL CORRESPOND WITH MECHANICAL SCHEDULE FOR SIZE AND ELECTRICAL DATA
	ELECTRIC MOTOR, ID MARK WILL CORRESPOND WITH ELECTRICAL SCHEDULE FOR SIZE AND ELECTRICAL DATA
$M	20A MOTOR RATED TOGGLE SAFETY SWITCH OR APPROVED EQUAL, UNLESS OTHERWISE NOTED
RS	ENCLOSED ROTARY DISCONNECT SWITCH OR APPROVED EQUAL, UNLESS OTHERWISE NOTED
30/3P 4X NF	NON-FUSED HEAVY DUTY SAFETY SWITCH (SIZE AND NO. OF POLES ARE INDICATED) SAFETY SWITCH ENCLOSURE NEMA RATING NF (NON-FUSED) SAFETY SWITCH SIZE / NUMBER OF POLES
30/3P 4X 30A	FUSED HEAVY DUTY SAFETY SWITCH (SIZE AND NO. OF POLES ARE INDICATED) SAFETY SWITCH ENCLOSURE NEMA RATING FUSE SIZE SAFETY SWITCH SIZE / NUMBER OF POLES
	RISER OR ONE-LINE DIAGRAM NON FUSED HEAVY DUTY SAFETY SWITCH (ID, SIZE AND NO. OF POLES ARE INDICATED)
	RISER OR ONE-LINE DIAGRAM FUSED HEAVY DUTY SAFETY SWITCH (ID, SIZE, FUSE SIZE AND NO. OF POLES ARE INDICATED)
VFD 10 HP 4X	VFD (VARIABLE FREQUENCY DRIVE) STARTER / DISCONNECT, SEE MECHANICAL SCHEDULE FOR MOTOR SIZE AND ELEC. DATA UNIT MOTOR SIZE, SEE MECH SCHEDULE FOR MOTOR SIZE VFD ENCLOSURE NEMA RATING
VFD	RISER OR ONE-LINE DIAGRAM VFD STARTER / DISCONNECT (ID, SIZE, FUSE SIZE AND NO. OF POLES ARE INDICATED)

GROUNDING & LIGHTNING PROTECTION

	GROUND MECHANICAL OR CAD WELD CONNECTION TO BUILDING STEEL
	ALUMINUM STUB NOSE 24" LIGHTNING PROTECTION AIR TERMINAL
	AIRCRAFT GROUND LUG, FLUSH MOUNTED IN HANGAR FLOOR WITH COVER PLATE
	COPPER CLADDED GROUND ROD AND GROUND WELL, SIZE TO BE NOTED
	COPPER CLADDED GROUND ROD, SIZE TO BE NOTED
	MECHANICAL CONNECTION OR CAD WELD FOR GROUND CABLE TO CABLE CONNECTION
	ALUMINUM DOWN CONDUCTOR, INTERIOR OR EXTERIOR TO BE NOTED
—LP—	ALUMINUM LIGHTNING PROTECTION CABLE, SIZE TO BE NOTED
— G —	UNDERGROUND BARE COPPER GROUND CABLE CONDUCTOR OR GROUND RING, SIZE TO BE NOTED

CONDUIT AND WIRE

—C—	ABOVE GROUND EMT CONDUIT UNLESS NOTED OTHERWISE
— —C— —	BURIED SCHD 40 PVC CONDUIT, UNLESS NOTED OTHERWISE
—G—	ABOVE GROUND CONDUCTOR OR GROUND CABLE, UNLESS NOTED OTHERWISE
— · —	BURIED GROUND CONDUCTOR OR GROUND CABLE, UNLESS NOTED OTHERWISE
-UPL-	BURIED UTILITY PRIMARY POWER FEEDER AND CONDUIT, UNLESS NOTED OTHERWISE
-BEL-	BURIED ELECTRICAL POWER CONDUCTOR AND CONDUIT, UNLESS NOTED OTHERWISE
-FOC-	BURIED FIBER OPTIC CABLE AND CONDUIT, UNLESS NOTED OTHERWISE
— COM —	BURIED COMMUNICATION/DATA CABLE AND CONDUIT, UNLESS NOTED OTHERWISE
	GROUND CONNECTION OR GROUND CONNECTOR
	POWER OR EQUIPMENT CONNECTION TO GROUND
	ELECTRICAL CONDUCTOR HOME RUN. STANDARD CONDUCTOR SIZE IS 20A, 75° RATED, #12AWG THHN WIRE UNLESS OTHERWISE NOTED.

FIRE ALARM DEVICES

	WALL MOUNTED COMBINATION SPEAKER / STROBE FIRE ALARM DEVICE (STROBE TO BE 110 CD UNLESS NOTED) MOUNTED AT 80" AFF UNLESS OTHERWISE NOTED
	WALL MOUNTED STROBE FIRE ALARM DEVICE (STROBE TO BE 110 CD UNLESS NOTED) MOUNTED AT 80" AFF UNLESS OTHERWISE NOTED
	WALL MOUNTED SPEAKER FIRE ALARM DEVICE MOUNTED AT 80" AFF UNLESS OTHERWISE NOTED
F	WALL MOUNTED MANUAL PULL STATION FIRE ALARM DEVICE MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED
P	PHOTO-ELECTRIC TYPE SMOKE DETECTOR, 120V w/ BATTERY BACK-UP.
H	HEAT DETECTOR, COMBINATION RATE OF RISE AND FIXED TEMPERATURE
DT	SUPPLY AIR SIDE HVAC DUCT SMOKE DETECTOR w/ MOTORIZED ACTUATOR AND ADDRESSABLE MODULE, SEE MECHANICAL PLANS FOR SPECIFICATIONS AND MOUNTING LOCATION
DT	RETURN AIR SIDE HVAC DUCT SMOKE DETECTOR w/ MOTORIZED ACTUATOR AND ADDRESSABLE MODULE, SEE MECHANICAL PLANS FOR SPECIFICATIONS AND MOUNTING LOCATION
FACP	FIRE ALARM CONTROL PANEL, REFER TO FIRE ALARM SPECIFICATIONS FOR INFORMATION
FAA	FIRE ALARM ANNUNCIATOR PANEL, REFER TO FIRE ALARM SPECIFICATIONS FOR INFORMATION
SR	FIRE ALARM SHUT-DOWN RELAY NODE
KB	TAMPER RESISTANT KNOX BOX, MODEL 3200 w/ HINGED DOOR OR APPROVED EQUAL
R	FIRE ALARM RELAY SWITCH
FS	WATER FLOW SWITCH (FIRE PROTECTION DEVICE)
TS	WATER TAMPER SWITCH (FIRE PROTECTION DEVICE)

PREMISE SYMBOL INDENTIFICATION

DATA OUTLET ID TAGS:
IDF ROOM # — DV — #C — CABLE #
SYSTEM ID

SYSTEM ID	DESCRIPTION	REMARKS
AP	WIRELESS ACCESS POINT	FIELD COORDINATE AP INSTALLATION WITH CEILING / WALL CONSTRUCTION. REFER TO DETAILS FOR MOUNTING REQUIREMENTS.
DV	DATA / VOICE OUTLET	6 PORT DATA/VOICE OUTLET. PROVIDE DUST CAPS OVER SPARE PORTS.
V	VOICE OUTLET	2 PORT VOICE OUTLET. PROVIDE DUST CAPS OVER SPARE PORT.

NOTE:
- COORDINATE INSTALLATION OF CONDUIT AND CABLING WITH SECURITY INSTALLER.
- ALL JUNCTION BOXES CONCEALED BY HARD CEILING / WALLS SHALL BE PROVIDED WITH AN ACCESS PANEL. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT.

PREMISE DISTRIBUTION

#C	WALL MOUNTED (3) DATA JACK OUTLET AND BACK BOX, MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED
#C	WALL MOUNTED COMBO (6) VOICE/DATA JACK OUTLET AND BACK BOX, MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED
#C	WALL MOUNTED (2) VOICE JACK OUTLET AND BACK BOX, MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED
#C	FLOOR (3) DATA JACK OUTLET AND BACK BOX. FLUSH MOUNTED IN FLOOR, METAL BOX w/ COVER UNLESS OTHERWISE NOTED
#C	COMBO (6) VOICE/DATA JACK OUTLET AND BACK BOX, FLUSH MOUNTED IN FLOOR, METAL BOX w/ COVER UNLESS OTHERWISE NOTED
TGB	TELECOMMUNICATIONS GROUND BAR
TTB	3/4" PLYWOOD TELEPHONE TERMINAL BACKBOARD w/ GRAY FIRE RESISTANT PAINT
	WALL MOUNTED IDF/MDF RACK
	4 POST IDF/MDF DATA CABINET
WAP	WIRELESS ACCESS POINT CEILING JACK AND BACK BOX w/ BLUE DATA INPUT CAT6a WIRE

LIGHTING FIXTURES

	INDUSTRIAL STRIP LED FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE
	1x4 OR STRIP LED FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE
	1x4 OR STRIP LED FIXTURE ON EMERGENCY CIRCUIT OR BATTERY BACKED. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	2x2 LED FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	2x2 LED FIXTURE ON EMERGENCY CIRCUIT OR BATTERY BACKED. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	2x4 LED FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	2x4 LED FIXTURE ON EMERGENCY CIRCUIT OR BATTERY BACKED. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	HIGH BAY SQUARE HANGAR FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	HIGH BAY SQUARE HANGAR FIXTURE ON EMERGENCY CIRCUIT OR BATTERY BACKED. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	RECESSED ROUND CAN LIGHT. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	SURFACED MOUNT ROUND CAN LIGHT. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	LED EXIT LIGHT, SINGLE FACE, ARROWS SHOWN ON FLOOR PLAN FOR DIRECTION OF EXIT. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA AND MOUNTING TYPE.
	LED EXIT LIGHT, DUAL FACE, ARROWS SHOWN ON FLOOR PLAN FOR DIRECTION OF EXIT. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA AND MOUNTING TYPE.
	LED EMERGENCY, DUAL HEAD BATTERY BACKED FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA AND MOUNTING TYPE.
	SURFACE MOUNT WALL PACK. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	POLE MOUNT STREET LIGHT. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	POLE MOUNT (2) FIXTURE STREET LIGHT. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.
	SURFACE MOUNT FLOOD LIGHT. SEE LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER, ELECTRICAL DATA, AND MOUNTING TYPE.

LIGHTING CONTROLS

$	SINGLE POLE TOGGLE SWITCH, UNLESS OTHERWISE NOTED
$3W	SINGLE POLE 3-WAY TOGGLE SWITCH AND BACKBOX
$TS	SINGLE POLE MECHANICAL TIMMER SWITCH AND BACKBOX
$WP	WEATHERPROOF TOGGLE SWITCH IN WEATHERPROOF BOX w/ COVER
$(1)	MULTI BUTTON DIGITAL SWITCH (# OF BUTTONS)
$OS	DIGITAL SWITCH w/ OCCUPANCY SENSOR AND BACKBOX COMBINATION
$DM	DIGITAL SWITCH w/ DIMMER CONTROL AND BACKBOX COMBINATION
$LV	LOW VOLTAGE SWITCH
LPP	LIGHTING POWER PACK INSTALLED ABOVE CEILING UNLESS OTHERWISE NOTED
PE	EXTERIOR PHOTO-ELECTRIC CELL FOR RELAY PANEL
TC	ASTRONOMICAL TIME CLOCK
PP	24VDC POWER PACK
OS	OCCUPANCY SENSOR, CELING SURFACE MOUNT

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

ENGINEER OF RECORD:
NAME:
FL. LICENSE NO.:

NO.	DATE	BY

REVISIONS:

ELECTRICAL SYMBOL LEGEND

RELEASE FOR BID

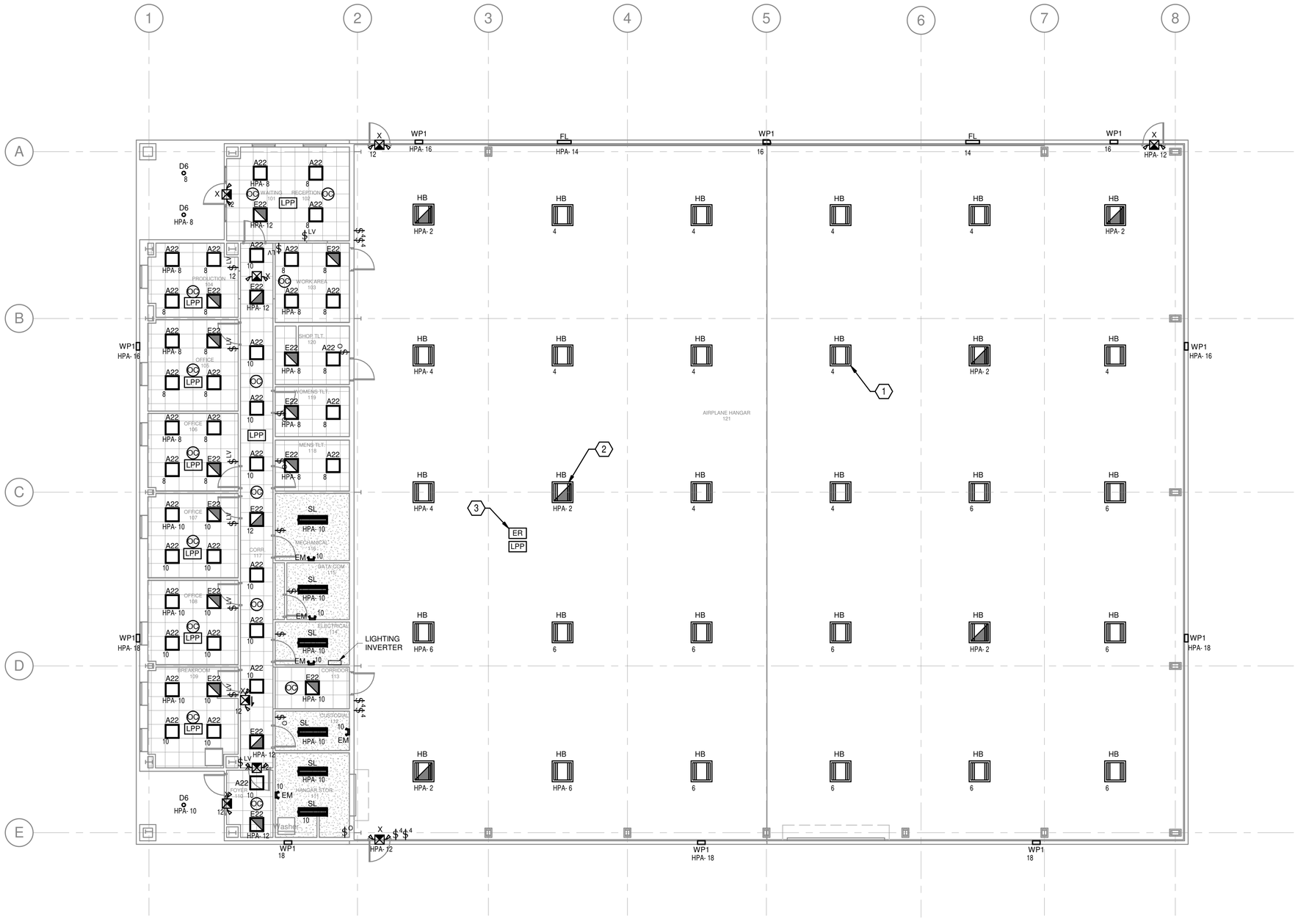
MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	KB
DRAWN BY:	KB
CHECKED BY:	SD
APPROVED BY:	SD
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET
E002



1 HANGAR & OFFICE CEILING LIGHTING PLAN
1/8" = 1'-0"

LIGHTING GENERAL NOTES:

1. REFER TO LUMINAIRE SCHEDULE SHEET E102.
2. REFER TO DIV. 26 SPECIFICATIONS FOR LIGHTING CONTROL DEVICES.
3. REFER TO ENLARGED PLAN SHEET E102 FOR TYPICAL LIGHITNG REQUIREMENTS TYPICAL OF ALL T-HANGARS.
4. HALF SHADED LIGHTS INSIDE HANGAR TO BE CIRCUITED TO EMERGENCY LIGHTING INVERTER LOCATED INSIDE ELECTRICAL ROOM.

LIGHTING KEY NOTES

1	COORDINATE MOUNTING OF HIGH BAY PENDANT LIGHTING WITH CEILING FAN AND HANGAR DOOR. BOTTOM OF HANGAR LIGHTS SHALL CLEAR HEIGHT OF HANGAR DOOR BY AT LEAST SIX INCHES.
2	HALF SHADED LIGHTS INSIDE HANGAR TO BE CIRCUITED TO EMERGENCY LIGHTING INVERTER LOCATED INSIDE ELECTRICAL ROOM
3	UL 924 EMERGENCY LIGHTING RELAY. CIRCUIT TO BYPASS LIGHTING CONTROLS IN HANGAR DURING UTILITY OUTAGE

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HANGAR & OFFICE CEILING LIGHTING PLAN

RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	KB
DRAWN BY:	KB
CHECKED BY:	SD
APPROVED BY:	SD
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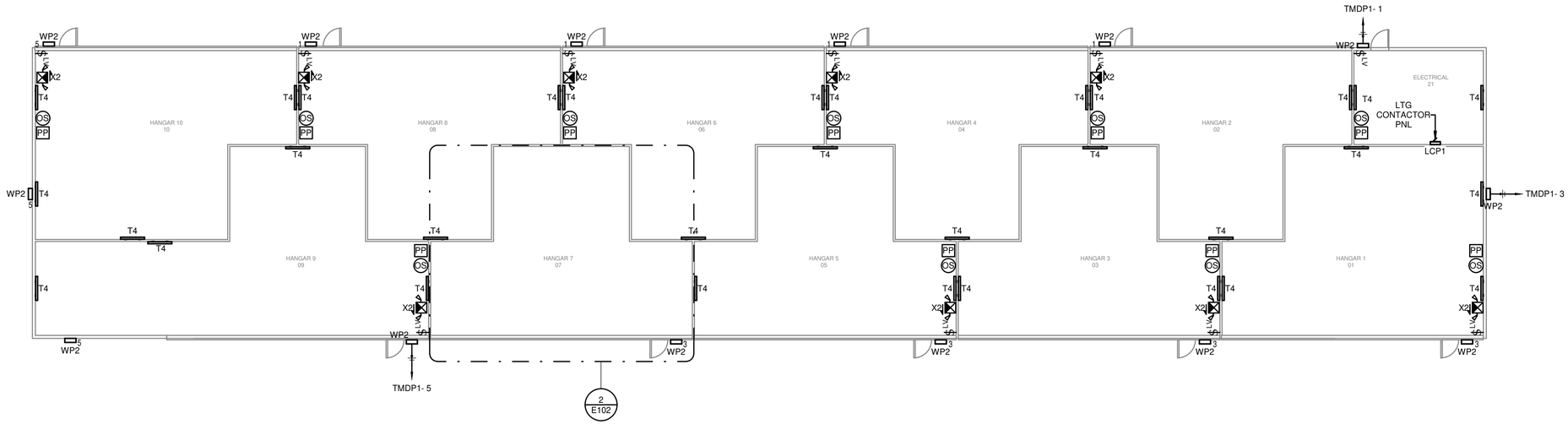
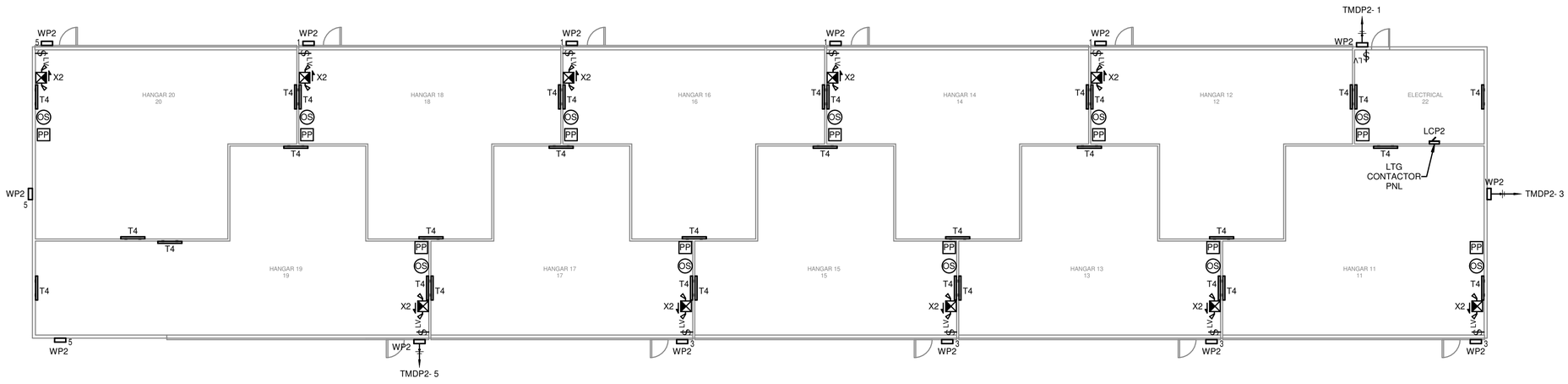
SHEET
E101



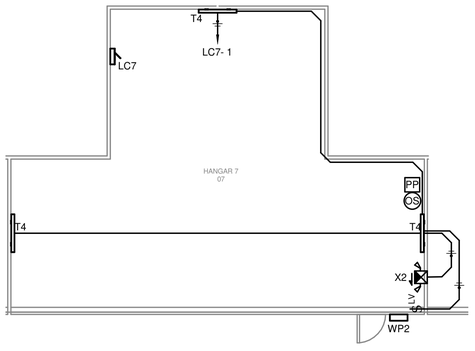
1 T-HANGAR 1 LIGHTING PLAN

3/32" = 1'-0"



3 T-HANGAR 2 LIGHTING PLAN

3/32" = 1'-0"



2 TYP. ENLARGED T-HANGAR LIGHTING PLAN

1/8" = 1'-0"

HANGAR LIGHTING GENERAL NOTES:

1. MOUNT OCCUPANCY 10'-0" AFF ON WALL. BASIS OF DESIGN IS LEGRAND DT-200 DUAL TECHNOLOGY OCCUPANCY SENSOR, DEFAULT TIMER SENSOR SETTING TO 30 MINS.
2. PROVIDE WATT STOPPER POWER PACK IN EACH HANGAR FOR POWERING OCCUPANCY SENSOR AND LOW VOLTAGE SWITCH.
3. LOW VOLTAGE SWITCH SHALL MANUAL TURN LIGHT ON/OFF. LIGHTS TIME OUT IF OCCUPANCY IS NOT DETECTED AFTER 30 MINS.
4. WALL MOUNT LINEAR FIXTURES 10'-0" AFF.

LUMINAIRE FIXTURE SCHEDULE

Light Fixture ID	Fixture Lamp Type	Light Fixture Description	Light Fixture Manufacturer	Light Fixture Model #	Light Fixture Load	Light Fixture Voltage	Fixture No of Poles	Light Fixture Color Temp	Light Fixture Lumens
A22	LED	BP FIELD SELECT BACKLIT FLAT PANEL LED FIXTURE	HE WILLIAMS	BP-22-LS3500/8CS4000-UNV	29 VA	277 V	1	4000 K	3549 lm
D6	LED	6" SHALLOW PLENUM ROUND DOWNLIGHT	HE WILLIAMS	6PR-TL-L40/840-UNV - TRIM-LM-OF-WH-IP	44 VA	277 V	1	4000 K	4415 lm
E22	LED	BP FIELD SELECT BACKLIT FLAT PANEL LED FIXTURE	HE WILLIAMS	BP-22-LS3500/8CS4000-UNV-EM/8W	37 VA	277 V	1	4000 K	3549 lm
EM	LED	EMERGENCY LIGHT	HE WILLIAMS		14 VA	277 V	1		
FL	LED	MODULAR LED FLOOD, IP66, HIGH OUTPUT	SPECGRAGE VANGUARD	MFL-1200-50K-30-V01-BL-TL-NDIM-GS	1200 VA	277 V	1	5000 K	201708 lm
HB	LED	PERFORMANCE HIGH BAY LED FIXTURE	HE WILLIAMS	GP4-L400/840-W-GS/Y26/10-277V	317 VA	277 V	1	4000 K	38934 lm
SL	LED	PREMIUM INDUSTRIAL STRIP	HE WILLIAMS	82-8-L128/840-WG-8211-DIM-277	82 VA	277 V	1	4000 K	12887 lm
T4	LED	WALL MOUNT UP/DOWN LINEAR	HE WILLIAMS	29-4-L54/840-AF-UNV	42 VA	120 V	1	4000 K	5414 lm
WP1	LED	WPCL FULL CUTOFF LARGE LED WALL PACK	HE WILLIAMS	WPCL-L200/850-BZ-UNV	188 VA	277 V	1	5000 K	20704 lm
WP2	LED	LED WALL SCONCE	HE WILLIAMS	WPAS-L34/850-BZ-UNV	44 VA	120 V	1	5000 K	21811 lm
X	LED	SINGLE FACE EXIT SIGN	HE WILLIAMS	EXIT-R-AC-WHT-D	4 VA	277 V	1		
X1	LED	SINGLE FACE EXIT SIGN WITH ARROWS	HE WILLIAMS	EXIT-R-AC-WHT-D	4 VA	277 V	1		
X2	LED	EXIT SIGN AND EMERGENCY LIGHTS WITH ARROWS	HE WILLIAMS	EXIT-R-AC-WHT-D-DRHL	4 VA	120 V	1		

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

ENGINEER OF RECORD:

NAME:

FL. LICENSE NO.:

NO.	DATE	BY

REVISIONS:

T-HANGAR LIGHTING PLAN

RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT

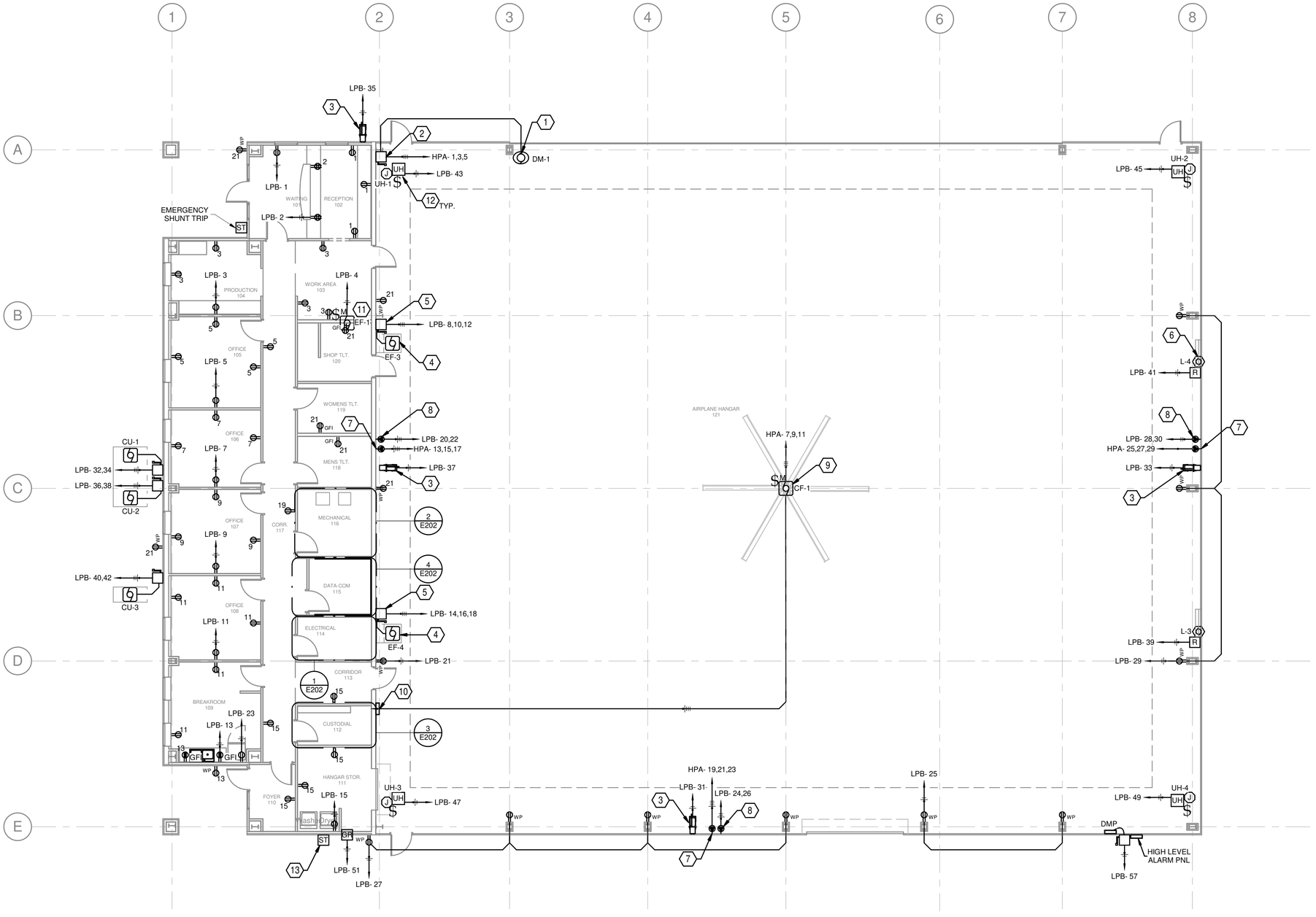
PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	KB
DRAWN BY:	KB
CHECKED BY:	SD
APPROVED BY:	SD
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET

E102



1 HANGAR & OFFICE FLOOR POWER PLAN
1/8" = 1'-0"

ELECTRICAL KEY NOTES

1	HANGAR DOOR MANUFACTURER PROVIDES 2 H.P. MOTOR AND STARTER ALONG WITH 3 BUTTON DOOR OPERATOR, CORD AND REELS.
2	PROVIDE 30A NON-FUSED, NEMA 1 DISCONNECT FOR DOOR MOTOR
3	50' CORD REEL WITH GF/WP TWIST LOCK RECEPTACLE. LARSON ELECTRONICS #EPLRT-50-HR. A COMPARABLE 50' CORD REEL THAT IS NOT EXPLOSION PROOF IS ACCEPTABLE.
4	EXHAUST FANS EF-3 & EF-4 SHALL BE INTERLOCKED WITH MOTORIZED DAMPERS L-3 & L-4. SEE MECHANICAL PLANS FOR SPECIFICATIONS
5	DISCONNECT FOR EF-3 AND EF-4, PROVIDED BY DIV. 15. EXHAUST FAN START/STOP CONTROLLED FROM LINE VOLTAGE THERMOSTAT. REFER TO INSTALLATION DETAILS
6	120V, SINGLE PHASE MOTORIZED DAMPERS L-3 & L-4 TO INTERLOCKED WITH EXHAUST FANS EF-3 & EF-4 VIA RELAY. SEE MECHANICAL PLANS FOR SPECIFICATIONS
7	NEMA 4X KILLARK 100A, 208V, 3 PHASE, 3W, 4P RECEPTACLE WITH BACK BOX, #VR1042E OR ACCEPTABLE EQUIVALENT. *VERIFY RECEPTACLE PIN CONFIGURATION WITH OWNER PRIOR TO ORDERING PART.
8	PROVIDE KILLARK VR642E4 WITH BACK BOX FOR CONNECTION OF FUTURE GPU PROVIDED BY OTHERS. ROUTE 3#6, #10G IN 1"C. MOUNT 48" AFF.
9	CF-1 LARGE HANGAR FAN CONTROLLED VIA FAN CONTROLLER, SEE MECHANICAL PLANS FOR DETAILS AND MOUNTING LOCATION
10	CEILING FAN CONTROLLER. MOUNT 60" AFF. ROUTE 3/4"C TO FAN FOR CONTROL WIRING. SEE MECHANICAL PLANS FOR DETAILS AND MOUNTING LOCATION
11	MOTOR RATED SWITCH, NEMA 1 BOX WITH COVER FOR EXHAUST FAN DISCONNECT MOUNTED NEAR OR AT EXHAUST FAN LOCATION
12	ELECTRIC UNIT HEATERS, MOUNTED TO WALL, SEE MECHANICAL PLANS FOR SPECIFICATIONS
13	PROVIDE EMERGENCY STOP MUSHROOM BUTTON WITH MANUAL RESET FOR GAS SHUT-OFF

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FL. LICENSE NO.:

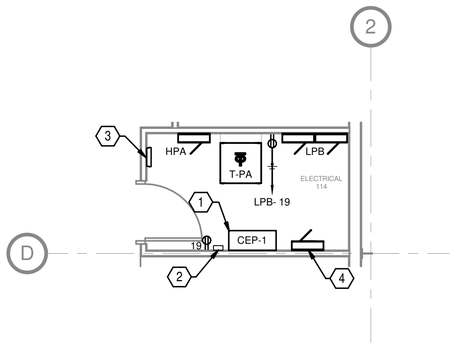
NO.	DATE	REVISIONS:	BY

HANGAR & OFFICE FLOOR POWER PLAN
RELEASE FOR BID

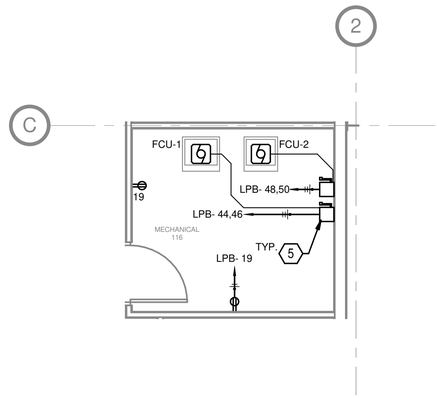
MARIANNA HANGAR DEVELOPMENT
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	KB
DRAWN BY:	KB
CHECKED BY:	SD
APPROVED BY:	SD
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

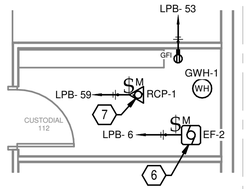
SHEET
E201



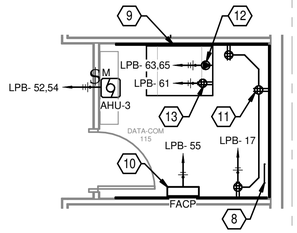
1 ENLARGED ELECTRICAL RM PWR PLAN
1/4" = 1'-0"



2 ENLARGED MECH RM PWR PLAN
1/4" = 1'-0"



3 ENLARGED CUSTODIAL PWR PLAN
1/4" = 1'-0"



4 ENLARGED DATA-COM PWR PLAN
1/4" = 1'-0"

ELECTRICAL KEY NOTES

1	(1) CEPS-A 2000W EMERGENCY POWER INVERTER CABINETS OR APPROVED EQUAL UL 924 LISTED EMERGENCY LIGHTING INVERTER.
2	(2) 20A EPC-A EMERGENCY POWER CONTROL UNITS FOR EMERGENCY LIGHTING.
3	MAIN ELECTRICAL GROUND BUSBAR (MGB).
4	HALF SHADED LIGHTS INSIDE HANGAR TO BE CIRCUITED TO EMERGENCY LIGHTING INVERTER LOCATED INSIDE ELECTRICAL ROOM
5	NEMA1 208V 30/1P NON-FUSED DISCONNECT SWITCH, TYPICAL BOTH FCU HEATING UNITS
6	MOTOR RATED SWITCH, NEMA 1 BOX WITH COVER FOR EXHAUST FAN DISCONNECT MOUNTED NEAR OR AT EXHAUST FAN LOCATION
7	RCP-1 PUMP AND MOTOR RATED SWITCH FOR RECIRCULATION PUMP DISCONNECTING MEANS, LOCATED ABOVE CEILING. SEE PLUMBING SHEETS FOR EXACT LOACTION AND SPECIFICATIONS.
8	TELECOMMUNICATION GROUND BAR. REFER TO ONE-LINE DIAGRAM.
9	3/4"x4'x4' FIRE RATED PLYWOOD BACKER BOARD, MOUNTED HORIZONTALLY 36" A.F.F. TO BOTTOM OF PLYWOOD
10	FACP FIRE ALARM CONTROL PANEL, COORDINATE POWER WITH FIRE ALARM PROVIDER
11	QUAD OUTLET, BOX MOUNTED TO PLYWOOD TERMINAL BACKER BOARD
12	NEMA L5-20R TWIST LOCK RACK MOUNTED RECEPTACLE, POWERED FROM CEILING MOUNTED J-BOX
13	QUAD OUTLET, BOX MOUNTED TO UNDERSIDE OF LADDER RACK WITH OUTLETS FACING FLOOR.

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NO.	DATE	REVISIONS:	BY

ENLARGED ELECTRICAL PLANS

RELEASE FOR BID

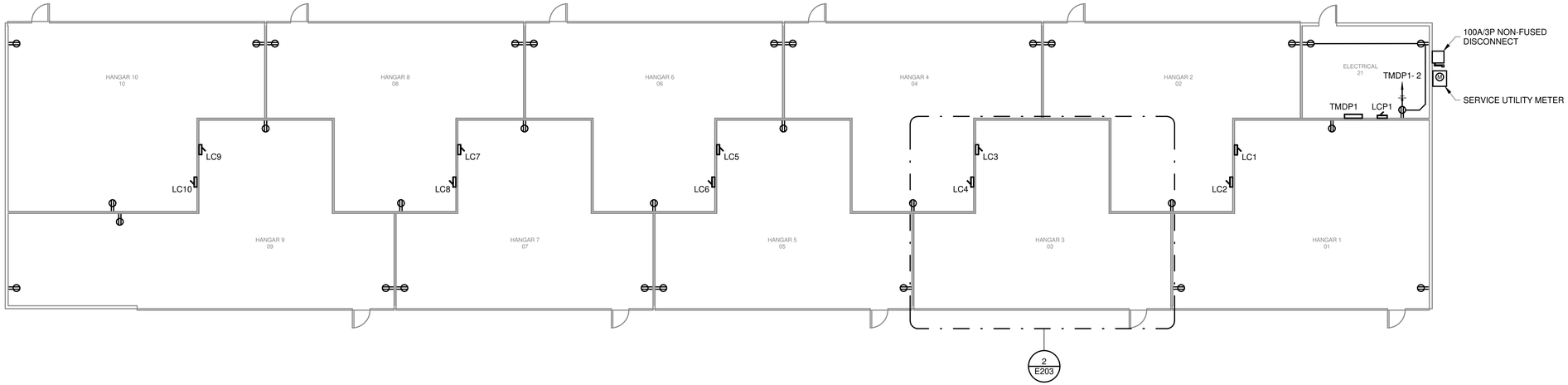
MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

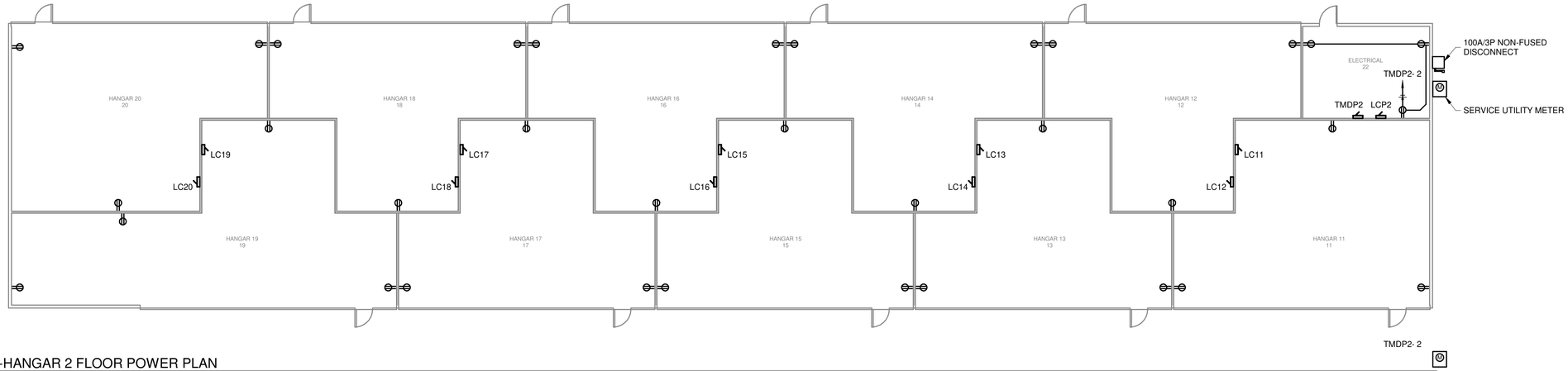
CITY OF MARIANNA

DESIGNED BY:	KB
DRAWN BY:	KB
CHECKED BY:	SD
APPROVED BY:	SD
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

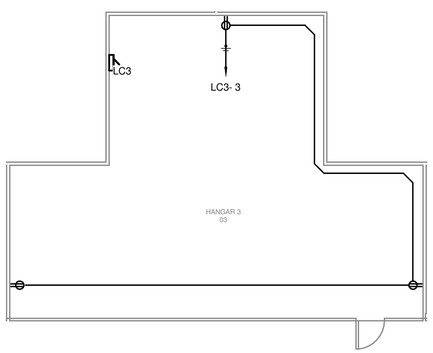
SHEET
E202



1 T-HANGAR 1 FLOOR POWER PLAN
3/32" = 1'-0"



3 T-HANGAR 2 FLOOR POWER PLAN
3/32" = 1'-0"



2 TYP. ENLARGED T-HANGAR POWER PLAN
1/8" = 1'-0"

BRANCH LMDP1 / LMDP2 PANEL FEEDER SCHEDULE & VOLTAGE DROP CACULATIONS									
C/B#	Load Description	C/B Trip	kVA	Amps	Voltage	Poles	Wire Size	# of Wires	Conduit
1	LTG - EXTERIOR WALL PACK	20A	0.22	1.8	120V	1	2#12, 1#12G	2W	3/4"
2	REC - ELECTRICAL RM	20A	0.54	4.5	120V	1	2#12, 1#12G	2W	3/4"
3	LTG - EXTERIOR WALL PACK	20A	0.22	1.8	120V	1	2#12, 1#12G	2W	3/4"
5	LTG - EXTERIOR WALL PACK	20A	0.18	1.5	120V	1	2#12, 1#12G	2W	3/4"
7	LC1/LC11 - T-HANGAR LOAD CNTR	30A	0.73	3.5	208V	2	2#10, 1#10G	3W	3/4"
8	LC2/LC12 - T-HANGAR LOAD CNTR	30A	0.73	3.5	208V	2	2#10, 1#10G	3W	3/4"
11	LC13/LC13 - T-HANGAR LOAD CNTR	30A	0.73	3.5	208V	2	2#10, 1#10G	3W	3/4"
12	LC4/LC14 - T-HANGAR LOAD CNTR	30A	0.73	3.5	208V	2	2#10, 1#10G	3W	3/4"
15	LC5/LC15 - T-HANGAR LOAD CNTR	30A	0.73	3.5	208V	2	2#10, 1#10G	3W	3/4"
16	LC6/LC16 - T-HANGAR LOAD CNTR	30A	0.73	3.5	208V	2	2#10, 1#10G	3W	3/4"
19	LC7/LC17 - T-HANGAR LOAD CNTR	30A	0.73	3.5	208V	2	2#10, 1#10G	3W	3/4"
20	LC8/LC18 - T-HANGAR LOAD CNTR	30A	0.73	3.5	208V	2	2#10, 1#10G	3W	3/4"
23	LC9/LC19 - T-HANGAR LOAD CNTR	30A	0.91	4.4	208V	2	2#10, 1#10G	3W	3/4"
24	LC10/LC20 - T-HANGAR LOAD CNTR	30A	0.73	3.5	208V	2	2#10, 1#10G	3W	3/4"

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ENGINEER OF RECORD:
NAME:
FL. LICENSE NO.:

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T-HANGAR POWER PLAN

RELEASE FOR BID

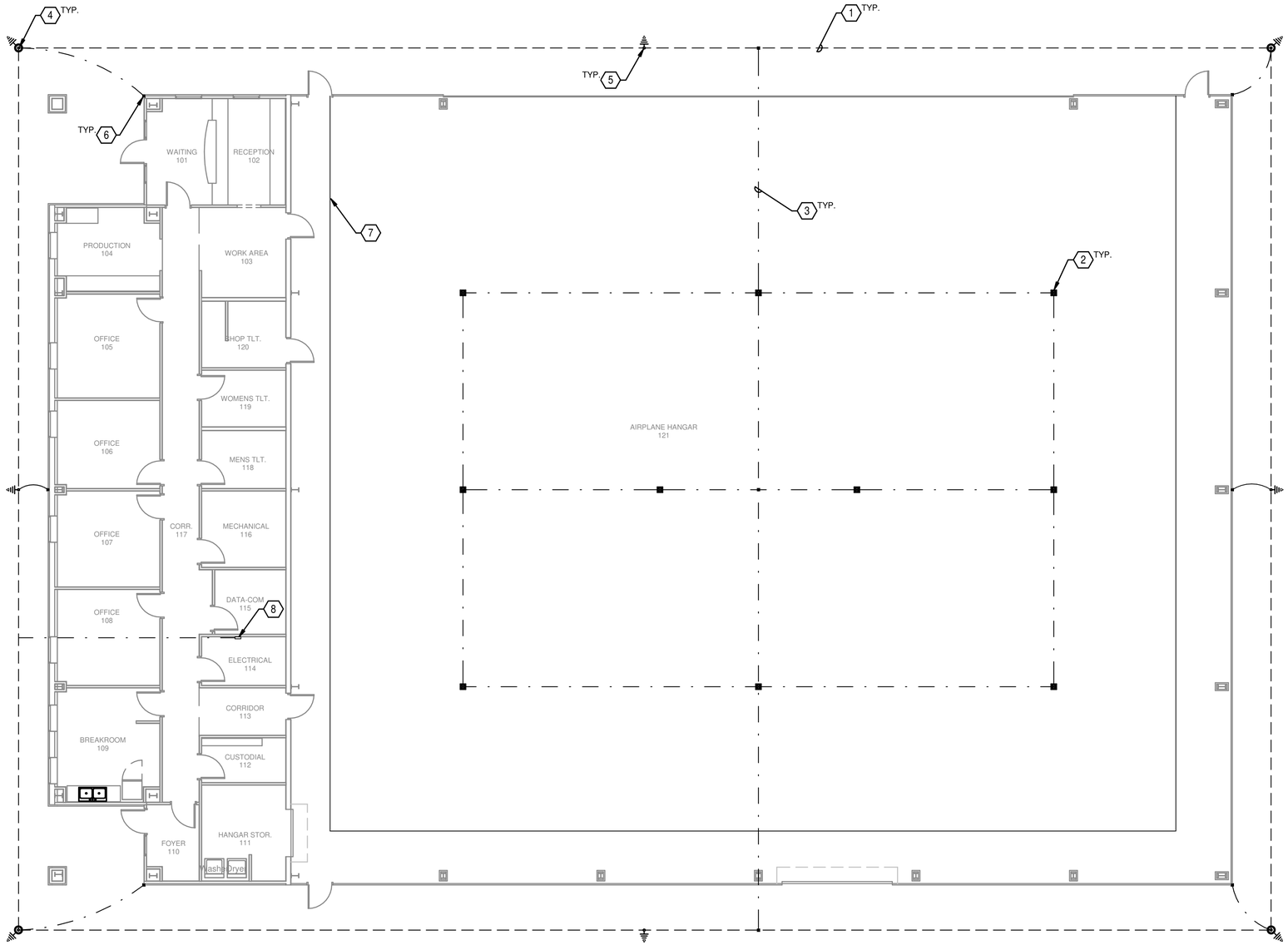
MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY: KB
DRAWN BY: KB
CHECKED BY: SD
APPROVED BY: SD
PROJECT NO. 2022.0260.03
DATE: JANUARY 2024

SHEET
E203



1 HANGAR GROUNDING PLAN
1/8" = 1'-0"

GROUNDING & LPS KEY NOTES

1	#2/0 BARE COPPER WIRE GROUND RING COUNTERPOISE SHALL BE LOCATED 24" FROM BUILDING FOUNDATION AND FOOTING. EARTH TO GROUND RESISTANCE OF 25 OHMS OR LESS.
2	AIRCRAFT GROUNDING LUG. SEE SHEET FOR DETAILS.
3	#2/0 BARE COPPER BONDING CONDUCTOR.
4	5/8" x 30'-0" COPPER CLADDED GROUNDING ROD AND INSPECTION WELL. GROUND RODS AND COUNTERPOISE SHALL BE LOCATED 24" FROM BUILDING FOUNDATION AND FOOTING. EARTH TO GROUND RESISTANCE OF 10 OHMS OR LESS. SEE SHEET FOR DETAILS.
5	5/8" x 30'-0" COPPER CLADDED GROUNDING ROD. GROUND RODS AND COUNTERPOISE SHALL BE LOCATED 24" FROM BUILDING FOUNDATION AND FOOTING. EARTH TO GROUND RESISTANCE OF 10 OHMS OR LESS. SEE SHEET FOR DETAILS.
6	BOND TO BUILDING STEEL. SEE SHEET FOR DETAILS.
7	AIRCRAFT EXCLUSION ZONE. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS
8	SERVICE MAIN GROUND BAR (MGB).

GROUNDING EQUIPMENT

	5/8" COPPER CLADDED GROUND ROD WITH INSPECTION WELL, SEE E501 FOR DETAILS
	5/8" COPPER CLADDED GROUND ROD, SEE E501 FOR DETAILS
■	AIRCRAFT GROUNDING LUG, SEE E501 FOR DETAILS
●	COPPER OR BI-METAL MECHANICAL CONNECTION, SEE E501 FOR TYPE DETAILS
— - —	COPPER GROUND CONDUCTOR

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HANGAR GROUNDING PLAN
RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	KB
DRAWN BY:	KB
CHECKED BY:	SD
APPROVED BY:	SD
PROJECT NO.	2022.0260.03
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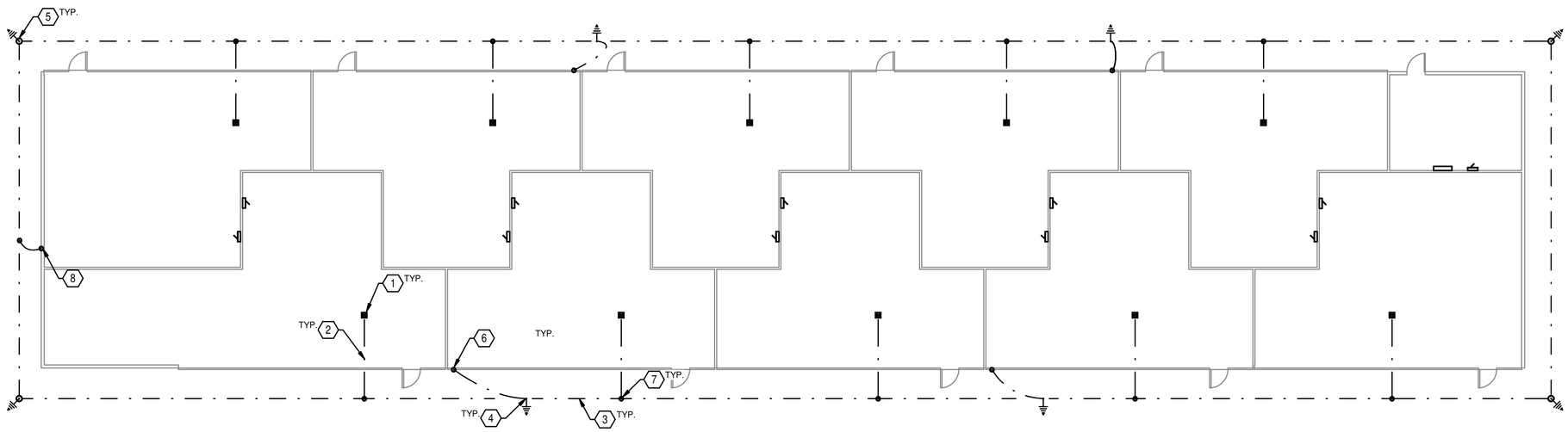
SHEET
E301



1 T-HANGAR GROUNDING PLAN
3/32" = 1'-0"

GROUNDING GENERAL NOTES:

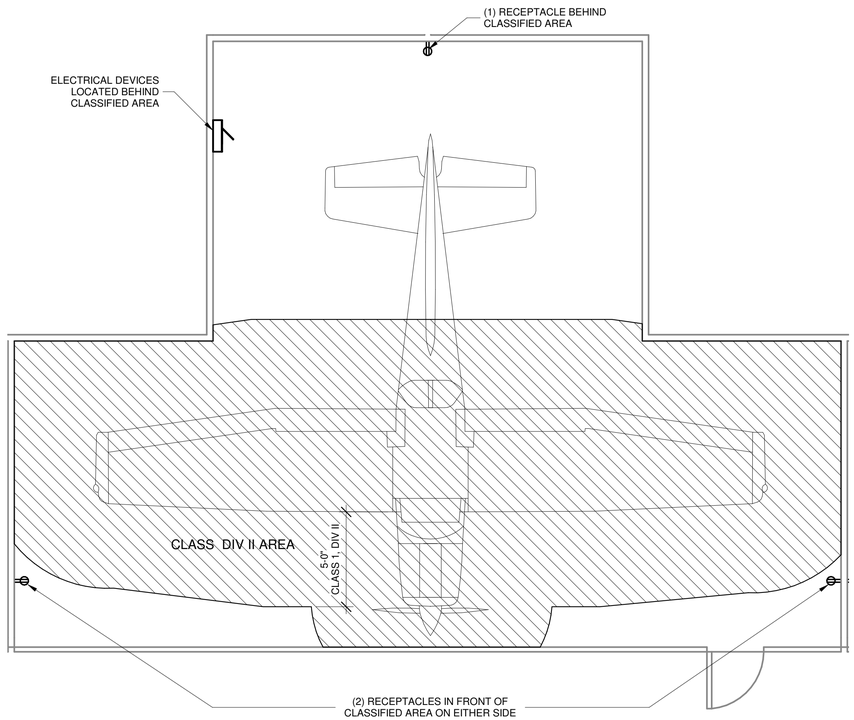
1. LOCATE AIRCRAFT GROUND LUG 8'-0" FROM FRONT OF HANGAR CENTER ON HANGAR DOOR.
2. EARTH TO GROUND RESISTANCE OF 25 OHMS OR LESS.

GROUNDING & LPS KEY NOTES

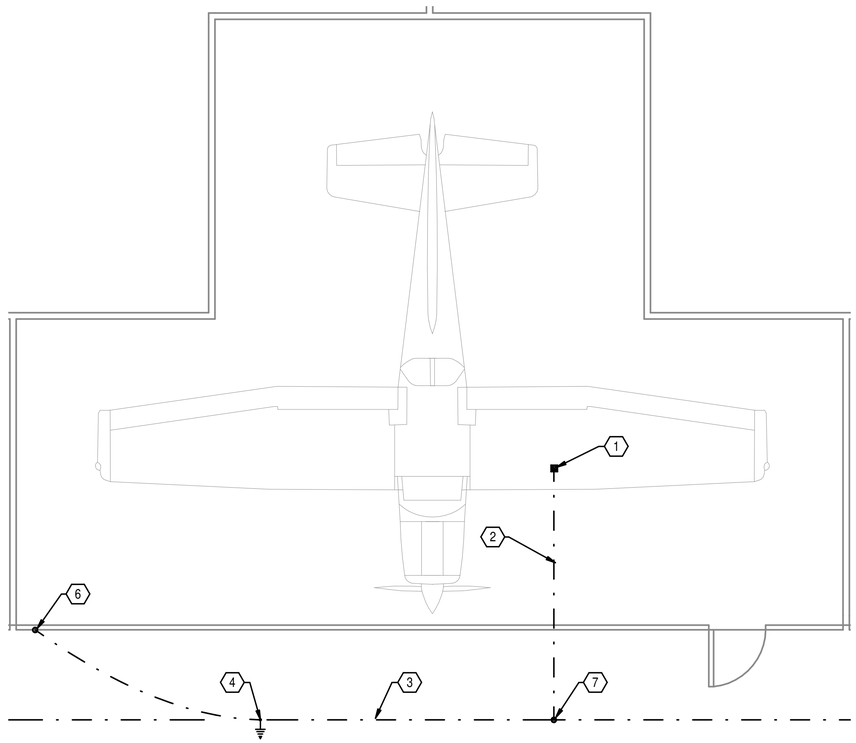
1	AIRCRAFT GROUNDING LUG. SEE SHEET FOR DETAILS.
2	#2/0 BARE COPPER BONDING CONDUCTOR.
3	#2/0 BARE COPPER WIRE GROUND RING COUNTERPOISE SHALL BE LOCATED 24" FROM BUILDING FOUNDATION AND FOOTING. EARTH TO GROUND RESISTANCE OF 25 OHMS OR LESS.
4	5/8" x 30'-0" COPPER CLADDED GROUNDING ROD. GROUND RODS AND COUNTERPOISE SHALL BE LOCATED 24" FROM BUILDING FOUNDATION AND FOOTING. EARTH TO GROUND RESISTANCE OF 10 OHMS OR LESS. SEE SHEET FOR DETAILS.
5	5/8" x 30'-0" COPPER CLADDED GROUNDING ROD AND INSPECTION WELL. GROUND RODS AND COUNTERPOISE SHALL BE LOCATED 24" FROM BUILDING FOUNDATION AND FOOTING. EARTH TO GROUND RESISTANCE OF 10 OHMS OR LESS. SEE SHEET FOR DETAILS.
6	BOND TO BUILDING STEEL. SEE SHEET FOR DETAILS.
7	HIGH COMPRESSION GROUND CRIMP, HARGER CGET OR EQUAL.
8	SERVICE MAIN GROUND BAR (MGB).

GROUNDING EQUIPMENT

	5/8" COPPER CLADDED GROUND ROD WITH INSPECTION WELL, SEE E501 FOR DETAILS
	5/8" COPPER CLADDED GROUND ROD, SEE E501 FOR DETAILS
■	AIRCRAFT GROUNDING LUG, SEE E501 FOR DETAILS
	COPPER OR BI-METAL MECHANICAL CONNECTION, SEE E501 FOR TYPE DETAILS
— - —	COPPER GROUND CONDUCTOR



2 TYP. T-HANGAR AIRCRAFT EXCLUSION ZONE
1/4" = 1'-0"



3 TYP. ENLARGED T-HANGAR GROUNDING PLAN
1/4" = 1'-0"

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T-HANGAR GROUNDING PLAN

RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	KB
DRAWN BY:	KB
CHECKED BY:	SD
APPROVED BY:	SD
PROJECT NO.	2022.0260.03
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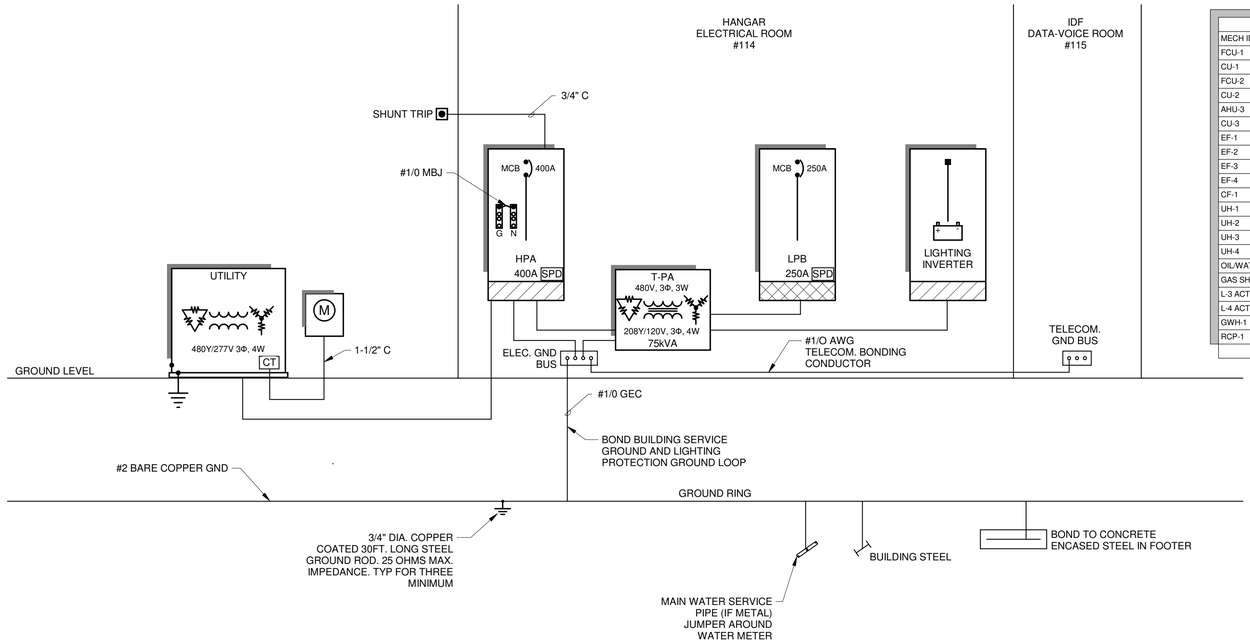
SHEET
E302

BRANCH PANEL FEEDER SCHEDULE & VOLTAGE DROP CACULATIONS										
CKT	Load Description	C/B Trip	kVA	Amps	Voltage	Phase	Poles	Conduit	# of Wires	Wire Size
#1	PANEL HPA	400A	159.74	192	480V	3	3	3"	4W	4#500, 1#3G
#2	XFMR T-PA (75kVA)	125A	63.14	76	480V	3	3	1-1/4"	4W	3#1, 1#6G
#3	PANEL LPB	250A	63.14	175	208V	3	3	2-1/2"	4W	4#250, 1#4G
#4	CEP-1	20A	2.00	2	480V	3	3	3/4"	3W	3#12, 1#12G
#5	DM-1	20A	6.32	8	480V	3	3	3/4"	3W	3#12, 1#12G
#6	GSE-100A	100A	66.00	79	480V	3	3	1"	4W	3#3, 1#8G
#7	GSE-60A	60A	17.29	48	208V	3	3	1"	4W	3#4, 1#6G
#8	PANEL TMDP1	100A	25.30	30	208V	3	3	1-1/4"	4W	4#3, 1#8G
#9	PANEL TMDP2	100A	25.30	30	208V	3	3	1-1/4"	4W	4#3, 1#8G

MECHANICAL EQUIPMENT		ELECTRICAL DATA			EQUIPMENT LOADS		CIRCUIT DATA			DISCONNECT SWITCH					NOTE TYPE
MECH ID	MECH EQUIP. DESCRIPTION	PHASE	VOLTAGE	POLES	FLA (Amps)	kVA LOAD	TOTAL FLA	TOTAL kVA	BREAKER	TYPE	SIZE	NEMA	CONDUIT SIZE	CONDUCTOR SIZE	
FCU-1	FAN COIL UNIT	1Φ	208V	2	42.00	8.74	42.00	8.74	60A	NF	60/2	1	3/4"	3#6, 1#10G	A
CU-1	AIR CONDENSOR UNIT	1Φ	208V	2	20.00	4.16	20.00	4.16	30A	NF	30/2	3R	3/4"	3#10, 1#10G	F
FCU-2	FAN COIL UNIT	1Φ	208V	2	33.00	6.86	33.00	6.86	50A	NF	60/2	1	3/4"	3#8, 1#10G	F
CU-2	AIR CONDENSOR UNIT	1Φ	208V	2	20.00	4.16	20.00	4.16	30A	NF	30/2	3R	3/4"	3#10, 1#10G	F
AHU-3	AIR MINI SPLIT SYSTEM	1Φ	208V	2	30.00	6.24	30.00	6.24	40A	NF	60/2	1	3/4"	3#8, 1#10G	F
CU-3	AIR CONDENSOR UNIT	1Φ	208V	2	7.00	1.46	7.00	1.46	20A	NF	30/2	3R	3/4"	3#12, 1#12G	F
EF-1	EXHAUST FAN	1Φ	120V	1	7.00	0.84	7.00	0.84	20A	MS	20A	1	3/4"	2#12, 1#12G	F
EF-2	EXHAUST FAN	1Φ	120V	1	2.00	0.24	2.00	0.24	20A	MS	20A	1	3/4"	2#12, 1#12G	F
EF-3	SIDE WALL EXHAUST FAN	3Φ	208V	3	5.00	1.80	5.00	1.80	20A	NF	30/3	3R	3/4"	3#12, 1#12G	F
EF-4	SIDE WALL EXHAUST FAN	3Φ	208V	3	5.00	1.80	5.00	1.80	20A	NF	30/3	3R	3/4"	3#12, 1#12G	F
CF-1	BIG HANGAR CEILING FAN	3Φ	480V	3	14.00	11.64	14.00	11.64	20A	MS	20A	1	3/4"	3#12, 1#12G	F
UH-1	HANGAR UNIT HEATER	1Φ	120V	1	4.00	0.48	4.00	0.48	20A	NF	30/1	3R	3/4"	2#12, 1#12G	F
UH-2	HANGAR UNIT HEATER	1Φ	120V	1	4.00	0.48	4.00	0.48	20A	NF	30/1	3R	3/4"	2#12, 1#12G	F
UH-3	HANGAR UNIT HEATER	1Φ	120V	1	4.00	0.48	4.00	0.48	20A	NF	30/1	3R	3/4"	2#12, 1#12G	F
UH-4	HANGAR UNIT HEATER	1Φ	120V	1	4.00	0.48	4.00	0.48	20A	NF	30/1	3R	3/4"	2#12, 1#12G	F
OIL/WATER PNL	OIL/WATER SEPERATOR PANEL	1Φ	120V	1	2.00	0.24	2.00	0.24	20A	-			3/4"	2#12, 1#12G	F
GAS SHUT-OFF	EMERGENCY SHUT OFF VALVE	1Φ	120V	1	1.00	0.12	1.00	0.12	20A	-			3/4"	2#12, 1#12G	F
L-3 ACTUATOR	LOUVER ACTUATOR MOTOR	1Φ	120V	1	0.30	0.04	0.30	0.04	20A	-			3/4"	2#12, 1#12G	F
L-4 ACTUATOR	LOUVER ACTUATOR MOTOR	1Φ	120V	1	0.30	0.04	0.30	0.04	20A	-			3/4"	2#12, 1#12G	F
GWH-1	GAS WATER HEATER CONTROL	1Φ	120V	1	5.00	0.60	5.00	0.60	20A	-			3/4"	2#12, 1#12G	F
RCP-1	HOT WATER CIRC PUMP	1Φ	120V	1	0.30	0.04	0.30	0.04	20A	MS	20A		3/4"	2#12, 1#12G	F
		1Φ	120V	1	0.00	0.00	0.00	0.00	20A				-	-	-

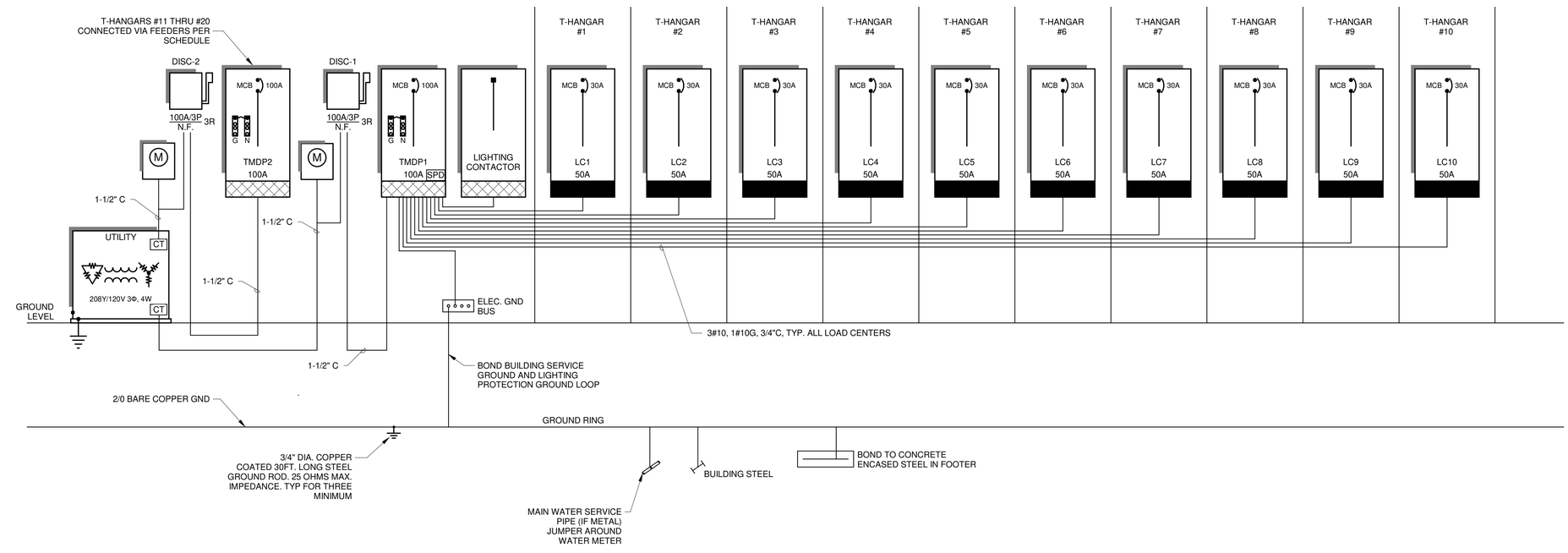
NOTE TYPE — NOTES:

- A — DISCONNECT AT EQUIPMENT BY DIV. 15 CONTRACTOR
- B — CONTROL DEVICE BY DIV. 15 CONTRACTOR
- C — CONTROL BY LINE VOLTAGE T-STAT
- D — COMBO DISC/STARTER BY DIV. 15 CONTRACTOR
- E — DIV. 26 CONTRACTOR TO PROVIDE TOGGLE SWITCH
- F — .



1 BOX HANGAR ELECTRICAL RISER DIAGRAM

1/8" = 1'-0"



2 T-HANGAR ELECTRICAL RISER DIAGRAM

1/8" = 1'-0"

LOAD CALCULATIONS:

		LOAD	DEMAND
NEC 220.44 - TOTAL RECEPTACLE LOAD:		16.69	
1st 10 kVA @	100%		10.00
Remaining Load @	50%		3.35
TOTAL RECEPTACLE DEMAND LOAD:			13.35
NEC 220.42 - TOTAL LIGHTING LOAD:		14.88	
INTERIOR LIGHITNG @	125%		14.40
EXTERIOR LIGHTING @	100%		3.36
TOTAL LIGHTING DEMAND LOAD:			17.76
NEC 220.18(A) - TOTAL MOTOR LOAD:		16.52	
TOTAL MOTOR LOAD @	100%		16.52
LARGEST MOTOR LOAD @	25%		1.58
TOTAL LIGHTING DEMAND LOAD:			18.10
TOTAL EQUIPMENT LOAD:		82.04	
EQUIPMENT LOAD @	100%		81.71
1st 8kVA MECH LOAD @	100%		0.33
REMAINING MECH LOAD @	60%		0.00
TOTAL EQUIPMENT DEMAND LOAD:			82.04
HVAC EQUIPMENT LOAD:		33.28	
ELEC. SPACE HEATING @	100%		1.76
AHU LOAD w/ HEAT @	100%		9.54
1st 8kVA A/C LOAD @	100%		10.00
REMAINING A/C LOAD @	60%		7.19
TOTAL HVAC DEMAND LOAD:			28.49
MISCELLANEOUS EQUIPMENT LOAD:			
NEC 620.14 - ELEVATOR LOAD @	100%	0.00	0.00
NEC 22.55 - KITCHEN APPLIANCE LOAD @	100%	0.00	0.00
NEC 551.73(A) - RV RECEPTACLE LOAD @	100%	0.00	0.00
TOTAL MISCELLANEOUS LOAD:			0.00
TOTAL CONNECTED LOAD (kVA):		163.41	
TOTAL DEMAND LOAD (kVA):			159.74
		kVA	Amps
ESTIMATED SERVICE LOAD:		159.74	192.13

T-HANAGR LOAD CALCULATIONS:

		LOAD	DEMAND
NEC 220.44 - RECEPTACLE LOAD:		6.48	
1st 10 kVA @	100%		6.48
Remaining Load @	50%		0.00
TOTAL RECEPTACLE DEMAND LOAD:			6.48
NEC 220.42 - LIGHTING LOAD:		2.52	
INTERIOR LIGHITNG @	125%		3.15
EXTERIOR LIGHTING @	100%		0.00
TOTAL LIGHTING DEMAND LOAD:			3.15
NEC 220.18(A) - MOTOR LOAD:		0.00	
TOTAL MOTOR LOAD @	100%		0.00
LARGEST MOTOR LOAD @	25%		0.00
TOTAL LIGHTING DEMAND LOAD:			0.00
TOTAL EQUIPMENT LOAD:		0.00	
EQUIPMENT LOAD @	100%		0.00
1st 8kVA MECH LOAD @	100%		0.00
REMAINING MECH LOAD @	60%		0.00
TOTAL EQUIPMENT DEMAND LOAD:			0.00
HVAC EQUIPMENT LOAD:		0.00	
ELEC. SPACE HEATING @	100%		0.00
AHU LOAD w/ HEAT @	100%		0.00
1st 8kVA A/C LOAD @	100%		0.00
REMAINING A/C LOAD @	60%		0.00
TOTAL HVAC DEMAND LOAD:			0.00
TOTAL CONNECTED LOAD:		10.90	
TOTAL DEMAND LOAD:			9.63
		kVA	Amps
ESTIMATED SERVICE LOAD:		10.83	30.06

AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A
NICEVILLE, FL 32578-2425
OFFICE: (850) 678-0050
CORPORATION CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

ENGINEER OF RECORD:

NAME:
FL. LICENSE NO.:

NO.	DATE	REVISIONS:	BY

ELECTRICAL RISER DIAGRAM

RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	KB
DRAWN BY:	KB
CHECKED BY:	SD
APPROVED BY:	SD
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET

E401

HPA

BRANCH PANEL: HPA | FED FROM: UTILITY
FRAME: 400A | MAIN CIRCUIT BREAKER | LOCATION: ELECTRICAL RM 114
MAIN C/B SIZE: 400A | BUS TYPE: COPPER | FULLY RATED | SERIES RATED
VOLTAGE: 480Y/277V | NEMA RATING: TYPE 1 | AIC RATING: 42,000 | -
PHASE / WIRES: 3Φ / 4W | MOUNTING: SURFACE | LUG TYPE: BOLT-ON / 75°C

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	ΦC	BREAKER C/B TRIP	POLE
MAIN CIRCUIT BREAKER	105.92				
		106.06		400A	3
			103.39		

	(kVA)	(AMPS)
TOTAL LOAD PHASE A:	105.92	382.38
TOTAL LOAD PHASE B:	106.06	382.89
TOTAL LOAD PHASE C:	103.39	373.25
TOTAL CONNECT LOAD:	317.05	381.35
TOTAL DEMAND LOAD:	159.74	192.13

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	ΦC	BREAKER C/B TRIP	POLE	BUS #	A B C	#	BREAKER POLE	C/B TRIP	LOAD (kVA) ΦA	ΦB	ΦC	LOAD DESCRIPTION
	2.11					1		2	1	20A	1.90			LTG - EMERGENCY LIGHTS
HANGAR DOOR MOTOR		2.11		20A	3	3		4	1	20A		3.80		LTG - HANGAR LIGHTS*
			2.11			5		6	1	20A			3.80	LTG - HANGAR LIGHTS*
	0.97					7		8	1	20A	0.70			LTG - OFFICE LIGHTS
CF-1 BIG HANGAR FAN		0.97		20A	3	9		10	1	20A		1.07		LTG - OFFICE LIGHTS
			0.97			11		12	1	20A			0.25	LTG - EXIT SIGNS (EMERGENCY)
	22.00					13		14	1	20A	2.40			LTG - APRON FLOOD LIGHTS
100A GSE OUTLET		22.00		100A	3	15		16	1	20A		0.43		LTG - EXTERIOR WALL PACKS
			22.00			17		18	1	20A			0.43	LTG - EXTERIOR WALL PACKS
	22.00					19		20			0.67			
100A GSE OUTLET		22.00		100A	3	21	3	22		20A		0.67		CEP-1 (EMERGENCY POWER)
			22.00			23		24					0.67	
	22.00					25		26	1	20A	0.10			LTG - PARKING LOT LIGHT
100A GSE OUTLET		22.00		100A	3	27		28	1	20A		-		SPARE
			22.00			29		30	1	20A			-	SPARE
	31.07					31		32	1	20A	-			SPARE
XFMR T-PA (PANEL LPB)		31.01		125A	3	33		34	1	20A		-		SPARE
			29.16			35		36	1	20A			-	SPARE
SPARE	-			20A	1	37		38	1	20A	-			SPARE
SPARE		-		20A	1	39		40	1	20A		-		SPD - SURGE PROTECTION DEVICE
SPARE			-	20A	1	41		42	1	20A				SPARE
TOTALS	100.15	100.09	98.24								5.77	5.97	5.15	TOTALS

PANEL SCHEDULE NOTES:

TMDP1

BRANCH PANEL: TMDP1 | FED FROM: UTILITY XFMR
FRAME: 100A | MAIN CIRCUIT BREAKER | LOCATION: EXTERIOR T-HANGAR WALL
MAIN C/B SIZE: 100A | BUS TYPE: COPPER | FULLY RATED | SERIES RATED
VOLTAGE: 208Y/120V | NEMA RATING: TYPE 1 | AIC RATING: 42,000 | -
PHASE / WIRES: 3Φ / 4W | MOUNTING: SURFACE | LUG TYPE: BOLT-ON / 75°C

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	ΦC	BREAKER C/B TRIP	POLE
	3.86				
MAIN CIRCUIT BREAKER		2.76		100A	3
			2.02		

	(kVA)	(AMPS)
TOTAL LOAD PHASE A:	3.86	32.17
TOTAL LOAD PHASE B:	2.76	23.00
TOTAL LOAD PHASE C:	2.02	16.83
TOTAL CONNECT LOAD:	10.32	28.65
TOTAL DEMAND LOAD:	9.12	25.30

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	ΦC	BREAKER C/B TRIP	POLE	BUS #	A B C	#	BREAKER POLE	C/B TRIP	LOAD (kVA) ΦA	ΦB	ΦC	LOAD DESCRIPTION
LTG - EXTERIOR WALL PACK	0.22			20A	1	1		2	1	20A	0.54			REC - ELECTRICAL RM 21
LTG - EXTERIOR WALL PACK		0.22		20A	1	3		4	1	20A		-		SPARE
LTG - EXTERIOR WALL PACK			0.18	20A	1	5		6	1	20A			-	SPARE
LC1 - T-HANGAR LOAD CENTER	0.19			30A	2	7		8	2	30A	0.19			LC2 - T-HANGAR LOAD CENTER
		0.54				9		10				0.54		
LC3 - T-HANGAR LOAD CENTER			0.19	30A	2	11		12	2	30A			0.19	LC4 - T-HANGAR LOAD CENTER
	0.54					13		14			0.54			
LC5 - T-HANGAR LOAD CENTER		0.19		30A	2	15		16	2	30A		0.19		LC6 - T-HANGAR LOAD CENTER
			0.54			17		18					0.54	
LC7 - T-HANGAR LOAD CENTER	0.19			30A	2	19		20	2	30A	0.19			LC8 - T-HANGAR LOAD CENTER
		0.54				21		22				0.54		
LC9 - T-HANGAR LOAD CENTER			0.19	30A	2	23		24	2	30A			0.19	LC10 - T-HANGAR LOAD CENTER
	0.72					25		26			0.54			
SPARE		-		20A	1	27		28	1	20A		-		SPARE
SPARE			-	20A	1	29		30	1	20A			-	SPARE
SPARE	-			20A	1	31		32	1	20A	-			SPARE
SPARE		-		20A	1	33		34	1	20A		-		SPARE
SPARE			-	20A	1	35		36	1	20A			-	SPARE
BLANK SPACE	-			-	-	37		38			0.00			
BLANK SPACE		-		-	-	39		40	3	30A		0.00		SPD - SURGE PROTECTION DEVICE
BLANK SPACE			-	-	-	41		42					0.00	
TOTALS	1.86	1.49	1.10								2.00	1.27	0.92	TOTALS

PANEL SCHEDULE NOTES:

SECTION 1

LPB

BRANCH PANEL: LPB | FED FROM: XFMR T-PA (PNL HPA)
FRAME: 225A | MAIN CIRCUIT BREAKER | LOCATION: ELECTRICAL RM 114
MAIN C/B SIZE: 150A | BUS TYPE: COPPER | FULLY RATED | SERIES RATED
VOLTAGE: 208Y/120V | NEMA RATING: TYPE 1 | AIC RATING: 35,000 | -
PHASE / WIRES: 3Φ / 4W | MOUNTING: SURFACE | LUG TYPE: BOLT-ON / 75°C

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	ΦC	BREAKER C/B TRIP	POLE
	31.07				
MAIN CIRCUIT BREAKER		31.01		150A	3
			29.16		

	(kVA)	(AMPS)
TOTAL LOAD PHASE A:	20.00	166.67
TOTAL LOAD PHASE B:	20.15	167.92
TOTAL LOAD PHASE C:	18.96	158.00
TOTAL LOAD SECTION 1:	59.11	164.07
TOTAL LOAD SECTION 2:	32.13	89.18
TOTAL DEMAND LOAD:	63.14	175.27

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	ΦC	BREAKER C/B TRIP	POLE	BUS #	A B C	#	BREAKER POLE	C/B TRIP	LOAD (kVA) ΦA	ΦB	ΦC	LOAD DESCRIPTION
REC - RM 101, 102	0.90			20A	1	1		2	1	20A	0.72			REC - RECEPTION DESK
REC - RM 103, 104		1.08		20A	1	3		4	1	20A		0.86		EF-1
REC - RM 105			0.90	20A	1	5		6	1	20A			0.02	EF-2
REC - RM 106	0.72			20A	1	7		8			0.55			
REC - RM 107		0.72		20A	1	9	3	10	3	20A		0.55		EF-3
REC - RM 108, 109			1.08	20A	1	11		12					0.55	
REC - GFCI RM 109, WP	0.54			20A	1	13		14			0.55			
REC - RM 110, 111, 112, 113		1.08		20A	1	15	3	16	3	20A		0.55		EF-4
REC - QUAD OUTLET, RM 115			1.08	20A	1	17		18					0.55	
REC - RM 114, 116, 117	0.90			20A	1	19		20			4.99			
REC - RM 118, 119, 120, WP		1.44		20A	1	21	2	22	2	60A		4.99		GSE 60A OUTLET
REC - REFRIGERATOR, RM 109			1.12	20A	1	23		24			4.99			
REC - WP	0.36			20A	1	25	2	26	2	60A			4.99	GSE 60A OUTLET
REC - WP		0.75		20A	1	27		28				4.99		
REC - WP			0.54	20A	1	29		30					4.99	
REC - POWER CHORD REEL	0.36			20A	1	31	2	32	2	30A	2.03			CU-1
REC - POWER CHORD REEL		0.36		20A	1	33		34				2.03		
REC - POWER CHORD REEL			0.36	20A	1	35	2	36	2	30A			2.03	CU-2
REC - POWER CHORD REEL	0.36			20A	1	37		38			2.03			
L-3 ACTUATOR RELAY		0.04		20A	1	39	2	40	2	20A		0.71		CU-3
L-4 ACTUATOR RELAY			0.04	20A	1	41		42					0.71	
TOTALS	4.14	5.47	5.12								15.86	14.68	13.84	TOTALS

SECTION 2

LPB

BRANCH PANEL: LPB | FED FROM: SUB-FED PNL NAME (SECT 1)
FRAME: 225A | MLO (MAIN LUG ONLY) | LOCATION: ELECTRICAL RM 114
MAIN C/B SIZE: - | BUS TYPE: COPPER | FULLY RATED | SERIES RATED
VOLTAGE: 208Y/120V | NEMA RATING: TYPE 1 | AIC RATING: 35,000 | -
PHASE / WIRES: 3Φ / 4W | MOUNTING: SURFACE | LUG TYPE: BOLT-ON / 75°C

	(kVA)	(AMPS)
TOTAL LOAD PHASE A:	11.07	92.25
TOTAL LOAD PHASE B:	10.86	90.50
TOTAL LOAD PHASE C:	10.20	85.00
TOTAL CONNECT LOAD:	32.13	89.18

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	ΦC	BREAKER C/B TRIP	POLE	BUS #	A B C	#	BREAKER POLE	C/B TRIP	LOAD (kVA) ΦA	ΦB	ΦC	LOAD DESCRIPTION
UH-1	0.44			20A	1	43		44	2	60A	4.39			FCU-1
UH-2		0.44		20A	1	45		46				4.39		
UH-3			0.44	20A	1	47		48	2	50A			3.46	FCU-2
UH-4	0.44			20A	1	49		50			3.46			
EMERGENCY GAS SHUT OFF PWR		0.12		20A	1	51	2	52	2	40A		3.14		AHU-3
REC - GWH-1 OUTLET			0.60	20A	1	53		54					3.14	
FACP**	0.60			20A	1	55		56			1.02			
OIL / WATER SEPERATOR PANEL		0.25		20A	1	57	3	58	3	20A		1.02		LIFT STATION
RCP-1			0.04	20A	1	59		60					1.02	
REC - IT CABINET POWER	0.72			20A	1	61		62	1	20A	-			SPARE
REC - IT CABINET UPS		1.50		20A	2	63		64	1	20A		-		SPARE
			1.50			65		66	1	20A			-	SPARE
SPARE	-			20A	1	67		68	1	20A	-			SPARE
SPARE		-		20A	1	69		70	1	20A		-		SPARE
SPARE			-	20A	1	71		72	1	20A			-	SPARE
SPARE	-			20A	1	73		74	1	20A	-			BLANK SPACE
SPARE		-		20A	1	75		76	1	20A		-		BLANK SPACE
SPARE			-	20A	1	77		78	1	20A			-	BLANK SPACE
BLANK SPACE	-			20A	1	79		80			0.00			
BLANK SPACE		-		20A	1	81	3	82	3	30A		0.00		SPD - SURGE PROTECTION DEVICE
BLANK SPACE			-	20A	1	83		84					0.00	
TOTALS	2.20	2.31	2.58								8.87	8.55	7.62	TOTALS

PANEL SCHEDULE NOTES:

TMDP2

BRANCH PANEL: TMDP2 | FED FROM: UTILITY XFMR
FRAME: 100A | MAIN CIRCUIT BREAKER | LOCATION: EXTERIOR T-HANGAR WALL
MAIN C/B SIZE: 100A | BUS TYPE: COPPER | FULLY RATED | SERIES RATED
VOLTAGE: 208Y/120V | NEMA RATING: TYPE 1 | AIC RATING: 42,000 | -
PHASE / WIRES: 3Φ / 4W | MOUNTING: SURFACE | LUG TYPE: BOLT-ON / 75°C

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	ΦC	BREAKER C/B TRIP	POLE
	3.86				
MAIN CIRCUIT BREAKER		2.76		100A	3
			2.02		

	(kVA)	(AMPS)
TOTAL LOAD PHASE A:	3.86	32.17
TOTAL LOAD PHASE B:	2.76	23.00
TOTAL LOAD PHASE C:	2.02	16.83
TOTAL CONNECT LOAD:	10.32	28.65
TOTAL DEMAND LOAD:	9.12	25.30

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	ΦC	BREAKER C/B TRIP	POLE	BUS #	A B C	#	BREAKER POLE	C/B TRIP	LOAD (kVA) ΦA	ΦB	ΦC	LOAD DESCRIPTION
LTG - EXTERIOR WALL PACK	0.22			20A	1	1		2	1	20A	0.54			REC - ELECTRICAL RM 22
LTG - EXTERIOR WALL PACK		0.22		20A	1	3		4	1	20A		-		SPARE
LTG - EXTERIOR WALL PACK			0.18	20A	1	5		6	1	20A			-	SPARE
LC11 - T-HANGAR LOAD CENTER	0.19			30A	2	7		8	2	30A	0.19			LC12 - T-HANGAR LOAD CENTER
		0.54				9		10				0.54		
LC13 - T-HANGAR LOAD CENTER			0.19	30A	2	11		12	2	30A			0.19	LC14 - T-HANGAR LOAD CENTER
	0.54					13		14			0.54			
LC15 - T-HANGAR LOAD CENTER		0.19		30A	2	15		16	2	30A		0.19		LC16 - T-HANGAR LOAD CENTER
			0.54			17		18					0.54	
LC17 - T-HANGAR LOAD CENTER	0.19			30A	2	19		20	2	30A	0.19			LC18 - T-HANGAR LOAD CENTER
		0.54				21		22				0.54		
LC19 - T-HANGAR LOAD CENTER			0.19	30A	2	23		24	2	30A			0.19	LC20 - T-HANGAR LOAD CENTER
	0.72					25		26			0.54			
SPARE		-		20A	1	27		28	1	20A		-		SPARE
SPARE			-	20A	1	29		30	1	20A			-	SPARE
SPARE	-			20A	1	31		32	1	20A	-			SPARE
SPARE		-		20A	1	33		34	1	20A		-		SPARE
SPARE			-	20A	1	35		36	1	20A			-	SPARE
BLANK SPACE	-			-	-	37		38			0.00			
BLANK SPACE		-		-	-	39		40	3	30A		0.00		SPD - SURGE PROTECTION DEVICE
BLANK SPACE			-	-	-	41		42					0.00	
TOTALS	1.86	1.49	1.10								2.00	1.27	0.92	TOTALS

PANEL SCHEDULE NOTES:

LC1

BRANCH PANEL: LC1 | FED FROM: PANEL TMDP
FRAME: 50A | MAIN CIRCUIT BREAKER | LOCATION: T-HANGAR 1
MAIN C/B SIZE: 30A | BUS TYPE: COPPER | AIC FULLY RATED: 10,000
VOLTAGE: 120/208V | NEMA RATING: TYPE 1 | AIC SERIES RATED: -
PHASE / WIRES: 1Φ / 3W | MOUNTING: SURFACE | LUG TYPE: 75°C / BOLT-ON

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	BREAKER C/B TRIP	POLE
MAIN CIRCUIT BREAKER	0.19		30A	3
		0.54		

	(kVA)	(AMPS)
TOTAL LOAD PHASE A:	0.19	1.58
TOTAL LOAD PHASE B:	0.54	4.50
TOTAL CONNECT LOAD:	1.05	5.05
TOTAL DEMAND LOAD:	1.10	5.28

LOAD DESCRIPTION	LOAD (kVA) ΦA	ΦB	BREAKER C/B TRIP	POLE	BUS #	A	B	#	BREAKER POLE	C/B TRIP	LOAD (kVA) ΦA	ΦB	LOAD DESCRIPTION
LTG - HANGAR LIGHTING	0.19		20A	1	1			2	1	20A			SPARE
REC - HANGAR RECEPTACLES		0.54	20A	1	3			4	1	20A			SPARE
SPARE			20A	1	5			6	2	30A			MAIN CIRCUIT BREAKER
SPARE			20A	1	7			8					
TOTALS	0.19	0.54									0.00	0.00	TOTALS

PANEL SCHEDULE NOTES:
PANEL SCHEDULE IS TYPICAL OF ALL 20 T-HANGAR UNITS

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

ENGINEER OF RECORD:
NAME:
FL. LICENSE NO.:

NO.	DATE	BY	REVISIONS:

ELECTRICAL PANEL SCHEDULES

RELEASE FOR BID

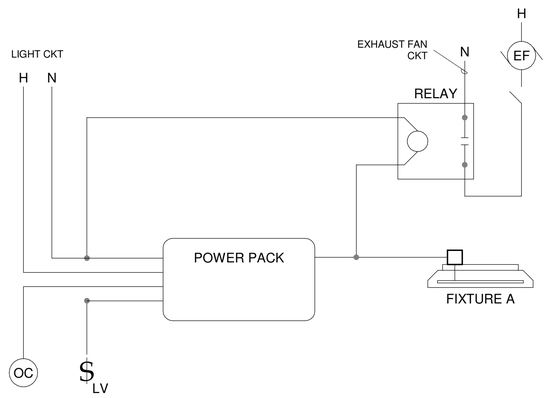
MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

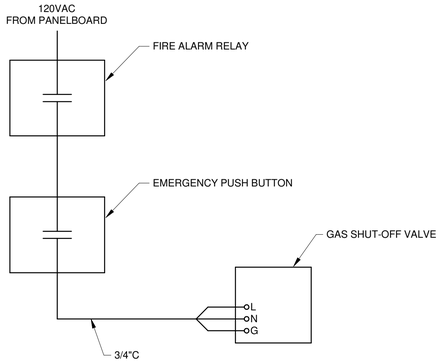
CITY OF MARIANNA

DESIGNED BY: KB
DRAWN BY: KB
CHECKED BY: SD
APPROVED BY: SD
PROJECT NO. 2022.0260.03
DATE: JANUARY 2024

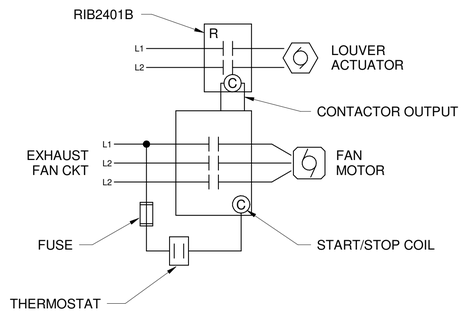
SHEET
E501



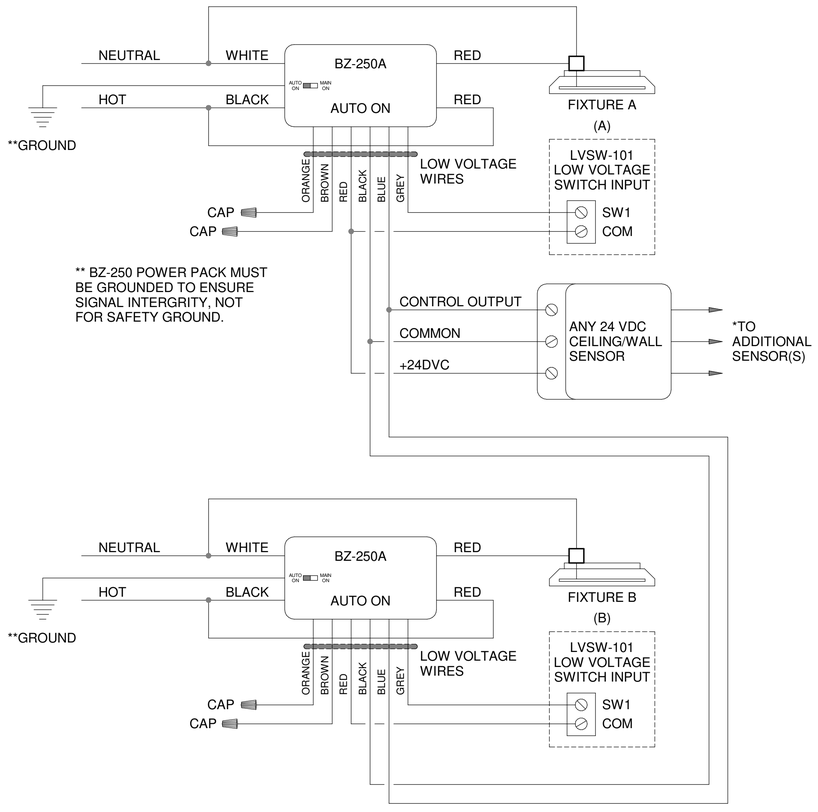
1 RESTROOM EXHAUST FAN CONTROL
12" = 1'-0"



3 EMERGENCY GAS SHUT OFF
12" = 1'-0"

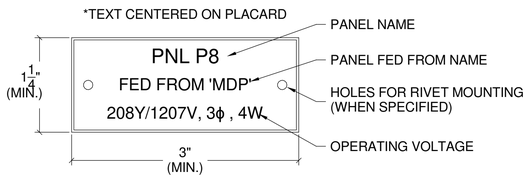


4 THERMOSTAT & ACTUATOR MOTOR WIRING DIAGRAM
1/4" = 1'-0"



P = POWER PACK,MUST BE GROUNDED FOR CIRCUIT INTERGRITY, WATTSTOPPER BZ-250 OE EQUAL
DT = DUAL TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER DT-305 OR EQUAL
SL = LOW VOLTAGE TRIGGER SWITCH HUBBELL 1557 OR EQUAL

2 TYP. OCCUPANCY SENSOR DIAGRAM
12" = 1'-0"



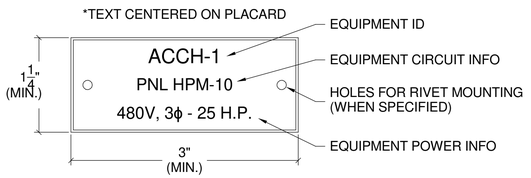
GENERAL NOTES

1. PLACARD SHALL HAVE WHITE ENGRAVED LETTERING WITH BLACK FOREGROUND
2. PLACARD SHALL BE APPLIED USING EPOXY ADHESIVE OR APPROVED SELF ADHESIVE MATERIALS.
3. EDGES SHALL BE BEVELED WITH 1/64" TO 1/32" CHAMFER.
4. MINIMUM LETTERING SIZE TO BE 3/16".
5. PLACARD WIDTH MAY INCREASE BY 1/4" INCREMENTS TO ACCOMMODATE SPECIFIED INFORMATION.

PANEL TYPES:

- MAIN DISTRIBUTION PANEL
- BRANCH DISTRIBUTION PANEL
- BRANCH LIGHTING/POWER PANEL
- TRANSFORMER

5 PANELBOARD PLACARD DETAIL
12" = 1'-0"



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4. MINIMUM LETTERING SIZE TO BE 3/16".
5. PLACARD WIDTH MAY INCREASE BY 1/4" INCREMENTS TO ACCOMMODATE SPECIFIED INFORMATION.

EQUIPMENT TYPES:

- ALL HVAC EQUIPMENT TYPES
- EQUIPMENT SAFETY SWITCHES / DISCONNECT
- ANY MOTOR
- VFD / MOTOR STARTERS / ENCLOSED FUSES

6 EQUIPMENT PLACARD DETAIL
12" = 1'-0"

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CITY OF MARIANNA

DESIGNED BY:	KB
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APPROVED BY:	SD
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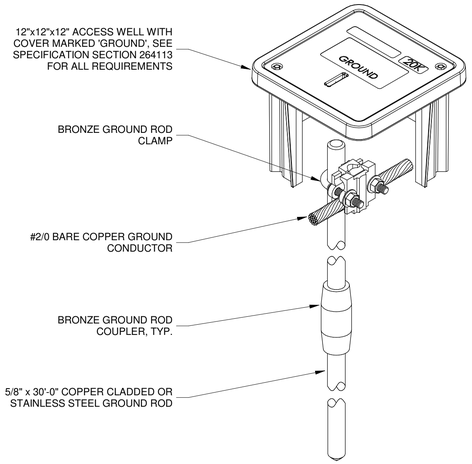
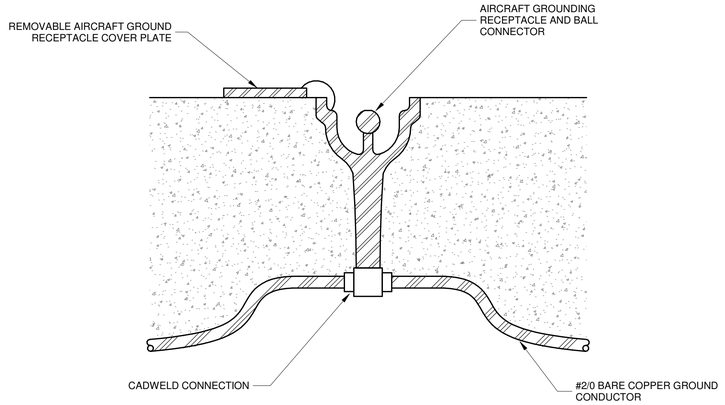
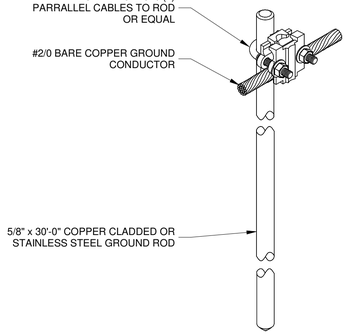
SHEET
E601



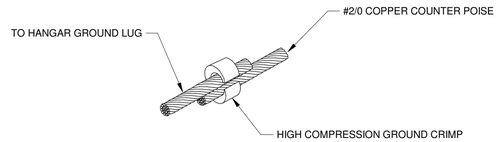
① GROUND ROD & INSPECTION WELL DETAIL
12" = 1'-0"



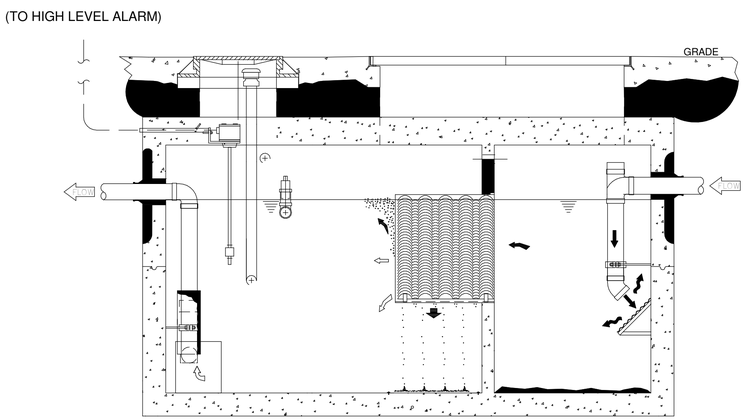
② AIRCRAFT GROUNDING LUG DETAIL
6" = 1'-0"



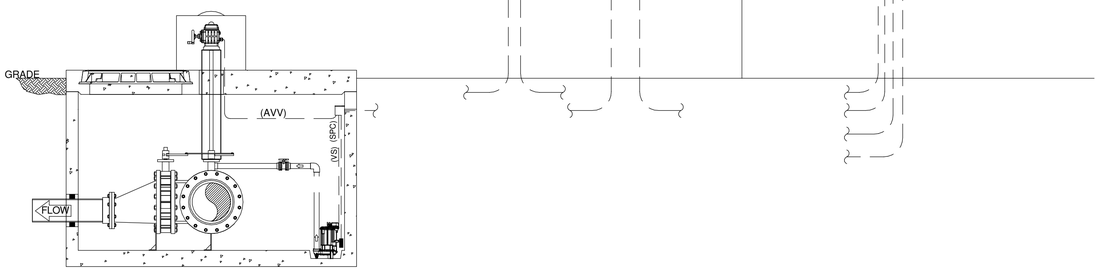
③ GROUND ROD DETAIL
1" = 1'-0"



④ TYP. COUNTERPOISE CONNECTION DETAIL
12" = 1'-0"



OIL / WATER SEPERATOR ELEVATION



DIVERTER VALVE ELEVATION

⑤ OIL / WATER SEPERATOR DETAIL
12" = 1'-0"

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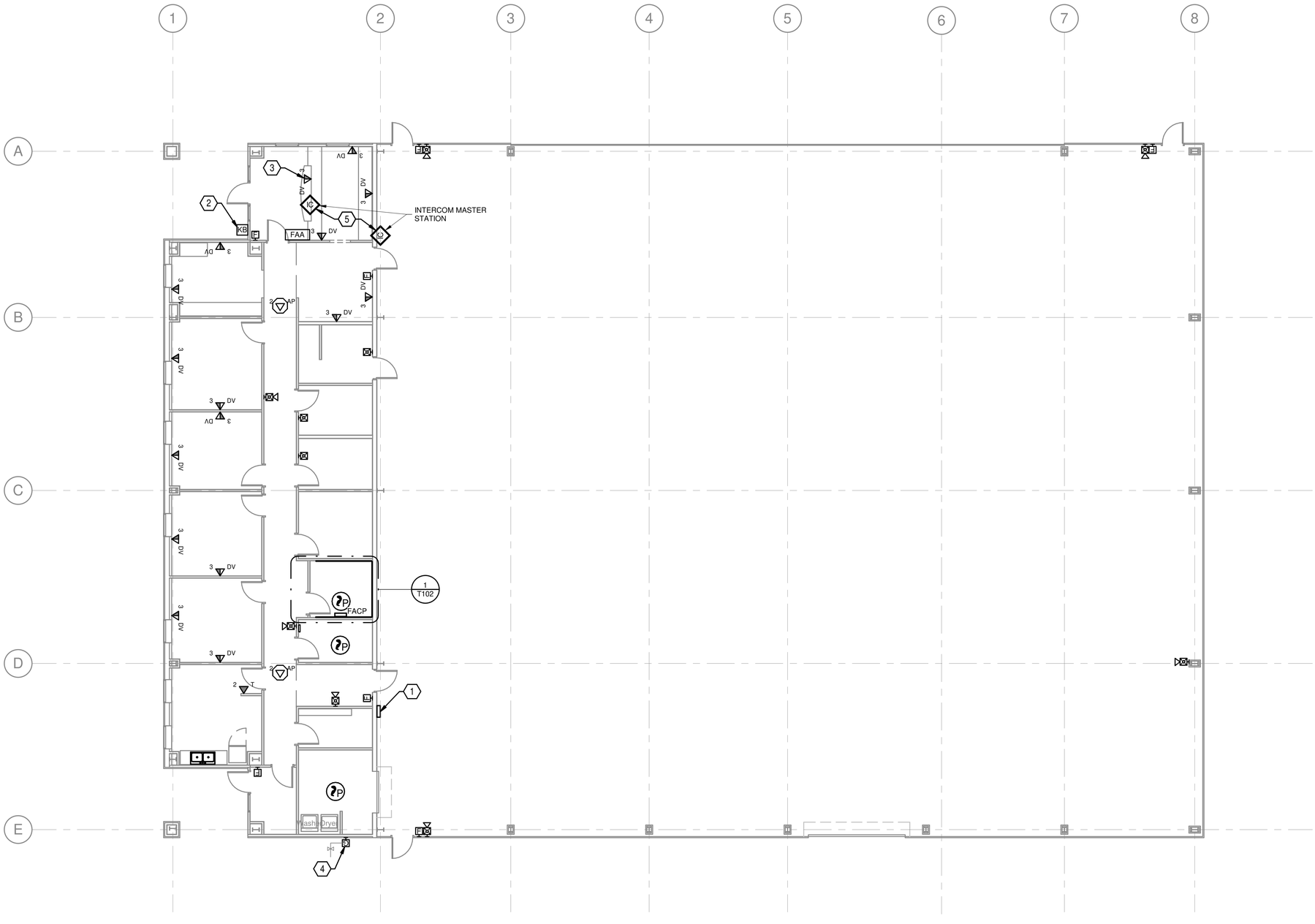
SHEET
E602



SYSTEMS KEY NOTES

1	PROVIDE FIRE ALARM RELAY FOR SHUT DOWN OF EXHAUST FAN AND B.A.F.
2	PROVIDE KNOX BOX 3200 AT MAIN ENTRANCE. MOUNT AT +80" AFG.
3	MOUNT DATA IN RECEPTION DESK. COORDINATE WITH ATCHITECTURAL PLANS.
4	FIRE ALARM RELAY FOR GAS SHUT OFF.
5	INTERCOM MASTER STATION AND SUB-MASTER STATION FOR CONTROL OF PEDESTRIAN GATE. REFER TO E003 AND SPECIFICATION 28 13 53. ROUTE CONDUIT OUTSIDE BUILDING TO PEDESTRIAN GATE LOCATION.

1 HANGAR & OFFICE FLOOR SYSTEMS & FIRE ALARM PLAN
1/8" = 1'-0"

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HANGAR TECHNOLOGY & FIRE ALARM PLAN

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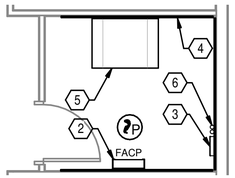
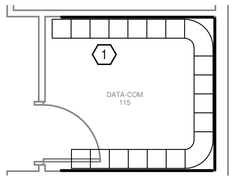
SHEET
T101



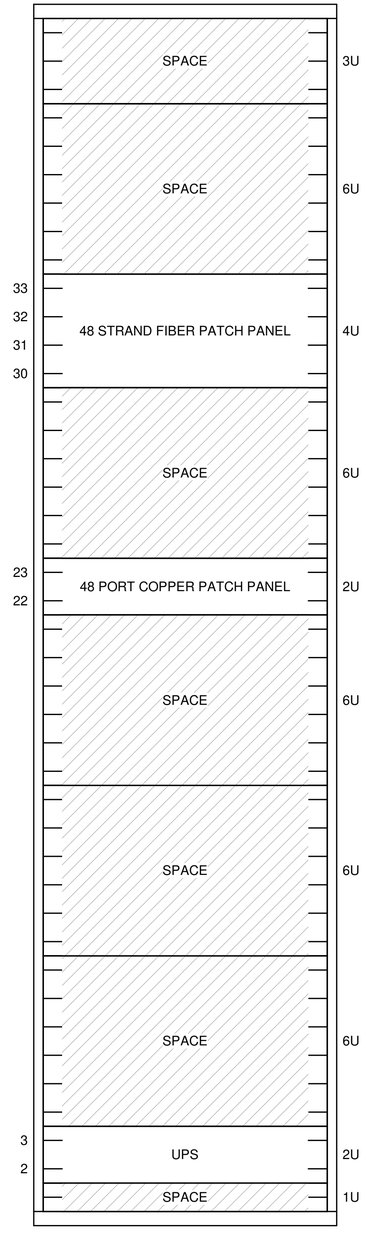
1 ENLARGED DATA-COM SYSTEMS PLAN
1/4" = 1'-0"



2 ENLARGED DATA-COM SYSTEMS CABLE TRAY LAYOUT
1/4" = 1'-0"

SYSTEMS KEY NOTES

1	INSTALL LADDER RACKS FOR STRUCTURED CABLE MANAGEMENT AROUND PERIMETER OF ROOM. BOND RACKS TO ROOM GROUND BUS BAR WITH #6 GROUND CONDUCTOR.
2	FACP FIRE ALARM CONTROL PANEL, COORDINATE POWER WITH FIRE ALARM PROVIDER
3	TELECOMMUNICATION GROUND BAR. REFER TO ONE-LINE DIAGRAM.
4	3/4"x4'x4' FIRE RATED PLYWOOD BACKER BOARD, MOUNTED HORIZONTALLY 36" A.F.F. TO BOTTOM OF PLYWOOD
5	FLOOR MOUNTED 42U DATA IT CABINET, REFER TO DIV. 27. BOND IT CABINET TO ROOM TGB WITH #6 AWG
6	STUB UP INTO ROOM WITH RGS CONDUIT. BOND CONDUIT TO TGB WITH #6 GROUND CABLE USING GROUND BUSHINGS



3 HANGAR DATA CABINET ELEVATION DETAIL
12" = 1'-0"

DATA CABINET NOTES:

1. PROVIDE 42U CABINET, FIBER AND COPPER PATCH PANELS. REFER TO DIV. 27 FOR REQUIREMENTS.
2. PROVIDE RACK MOUNTED UPS. REFER TO 26.33.53.

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ENLARGED TECHNOLOGY PLANS & DETAILS

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SHEET
T102

PLUMBING SYMBOLS

	COLD WATER
	HOT WATER SUPPLY
	HOT WATER RETURN
T	TEMPERED WATER
140°	140° HOT WATER
	WASTE OR SANITARY
	WASTE OR SANITARY BELOW GRADE
2"V	VENT AND SIZE
S	STORM PIPE BELOW GRADE
S	STORM PIPE ABOVE GRADE
CD	CONDENSATE DRAIN
A	COMPRESSED AIR
	ACID VENT
AW	ACID WASTE
G	GAS
	BALANCING VALVE
	CHECK VALVE VALVE
HB/WH	HOSE BIBB/WALL HYDRANT
	PRESSURE REDUCING VALVE
	SHUT OFF VALVE
	DIRECTION OF FLOW
	REDUCER OR INCREASER
	TOP CONNECTION, 45 OR 90 DEGREES
	BOTTOM CONNECTION, 45 OR 90 DEGREES
	SIDE CONNECTION
	CAPPED OUTLET
	DROP IN PIPING
	RISE IN PIPING
	UNION
	SOLENOID VALVE
	WATER FLOW MEASURING DEVICE
	PRESSURE GAUGE
	VALVE IN RISER

NOTE: NOT ALL SYMBOLS NECESSARILY USED ON THE DRAWINGS.

PLUMBING SHEET INDEX

PLUMBING ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
ACW	AUTOMATIC CLOTHES WASHER
ADA	AMERICANS WITH DISABILITIES ACT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
C/I	CONTRACTORS INSTALLED
CD	CONDENSATE
CO	CLEANOUT
CONN	CONNECTION
CONT	CONTINUOUS
CV	CHECK VALVE
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
DOMW	DOMESTIC WATER
DWG	DRAWING
ECO	EXTERIOR CLEAN OUT
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FBC	FLORIDA BUILDING CODE
FCW	FILTERED COLD WATER
GAL	GALLONS
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HR	HOUR
HW	HOT WATER
I.E.	INVERT ELEVATION
IR	INDIRECT RECEPTOR
MAX	MAXIMUM
MIN	MINIMUM
NFPA	NATIONAL FIRE PROTECTION
NTS	NOT TO SCALE
O/F	OWNER FURNISHED
PD	PUMP FURNISHED
PDI	PLUMBING DRAINAGE INSTITUTE
PRL	PRESSURE RELIEF LINE
PSIG	POUNDS PER SQUARE INCH
RWL	RAIN WATER LEADER
RM	ROOM
SPC	STANDARD PLUMBING CODE
ST	STORM
STO	STORM OVERFLOW
T&P	TEMPERATURE & PRESSURE
TPV	TRAP PRIMER VALVE
TYP	TYPICAL
U/G	UNDERGROUND
W/	WITH
WCO	WALL CLEAN OUT

PLUMBING GENERAL NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE, WITH ALL APPLICABLE LOCAL CODES AND ORDINANCES.

B. CONTRACTOR SHALL VERIFY AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALLED ON THE SITE.

C. ALL SANITARY PIPING 3" AND LARGER SHALL HAVE A 1/8" PER FOOT SLOPE. ALL SANITARY PIPING SMALLER THAN 3" SHALL HAVE A SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED.

D. VENT PIPING SHOWN ON FLOOR PLAN IS ONLY INDICATIVE EXCEPT FOR VTR LOCATIONS.

E. VALVES AND FITTINGS SHALL BE SAME SIZE OF LINE ON WHICH THEY ARE LOCATED.

F. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.

G. CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL PIPING SYSTEMS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.

H. INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY-FABRICATED INSTALL ARRESORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I WH-201.

I. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.

J. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHER PROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.

K. ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.

L. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.

M. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.

N. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURE MOUNTING HEIGHTS AND DIMENSIONS.

O. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.

P. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.

Q. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL. SO THAT WALL INSULATION CAN BE PLACED ON THE EXTERIOR SIDE OF THE PIPING.

R. DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER.

S. PIPING SHALL ESSENTIALLY BE ROUTED AND LOCATED AS INDICATED ON THE DRAWINGS: HOWEVER, ACTUAL PLACEMENT SHALL BE VERIFIED BY CONFIRMING EXACT LOCATION OF STRUCTURES AND OTHER UTILITIES IN THE FIELD AND BY CAREFUL LAYOUT PRIOR TO EXECUTION OF THE WORK. DRAWINGS ARE GENERALLY DIAGRAMMATIC. PIPING SHALL BE CONCEALED EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.

T. HOT AND COLD WATER SUPPLY PIPES AND DRAIN PIPES UNDER HANDICAPPED LAVATORIES SHALL BE INSULATED PER AMERICANS WITH DISABILITIES ACT, WITH FACTOR PREFABRICATED MICROBIAL PVC RESIN SEAMLESS INSULATION. BASIS OF DESIGN: ZURN INDUSTRIES, INCL.

U. VALVES ABOVE HARD CEILINGS SHALL BE PROVIDED WITH CEILING ACCESS HATCHES PER ARCHITECTURAL SPECIFICATIONS.

V. NOT ALL PIPE SIZES ARE INDICATED IN PLANS. REFER TO ISOMETRICS AND PLUMBING FIXTURE EQUIPMENT SCHEDULE FOR SIZES.

W. NOT ALL VALVING IS INDICATED ON PLANS SHEETS. REFER TO ISOMETRICS AND DETAILS FOR ADDITIONAL VALVING.

X. ALL PIPING ABOVE GRADE OR IN AN EXTERIOR ENVIRONMENT SHALL BE FREEZE PROTECTED BY ADDING INSULATION PER SPECIFICATION 22 07 00.

Y. IN ADDITION TO PROVIDING VALVE TAGS, CONTRACTOR SHALL AFFIX A LABEL TO CEILING GRID OR ACCESS DOOR INDICATING VALVE FUNCTION AND NUMBER.

Z. CONTRACTOR SHALL COORDINATE EXACT PLUMBING FIXTURE LOCATION WITH DIMENSIONED ARCHITECTURAL PLANS PRIOR TO ROUGHING IN. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT REPRESENT EXACT LOCATIONS.

AA. PROVIDE WALL CLEANOUT AT THE BASE OF EACH SANITARY AND STORM VERTICAL STACK AS REQUIRED PER FLORIDA PLUMBING CODE. PROVIDE CLEANOUT ACCESS COVERS.

BB. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.

CC. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSABLE CEILINGS.

DD. SLEEVE AND FIRE STOP PENETRATIONS OF RATED WALLS, FLOORS, CEILINGS AND ROOFS. FLASH AND COUNTERFLASH ROOF PENETRATIONS.

EE. PROVIDE, WHEN REQUIRED BY CODE, A 2" MIN. AIR GAP SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.

PLUMBING FIXTURE SCHEDULE

FIXTURE TAG	DESCRIPTION	REMARKS	WASTE	VENT	CW	HW	MANUFACTURER	MODEL
ACW-1	AUTOMATIC CLOTHES WASHER OUTLET BOX	WALL OUTLET BOX WITH BUILT-IN HAMMER ARRESTORS, QUARTER TURN VALVES, HOSE CONNECTIONS, AND DRAIN LINE. WHITE PLASTIC, RECESSED, FIRE RATED.	2"	2"	1/2"	1/2"	SIOUX CHIEF	696R
CD-1	CONDENSATE DRAIN	EPOXY COATED CAST IRON DRAIN, 5" ROUND NICKEL BRONZE STRAINER, RAISED FLANGE, REVERSIBLE CLAMPING COLLAR.	3"	-	-	-	WATTS	FD-100-ER
ECO	EXTERNAL CLEANOUT	EPOXY COATED CAST IRON CLEANOUT WITH 5" ROUND ADJUSTABLE HEAVY DUTY DUCTILE IRON TOP, REMOVABLE GASKETED BRASS CLEANOUT PLUG.	VARIES	-	-	-	WATTS	CO-200-P-RX4
ES-1	EMERGENCY EYEWASH / SHOWER	BARRIER-FREE EYE WASH / DRENCH SHOWER COMBINATION. STAY OPEN SHOWER VALVE OPERATED BY TRIANGULAR PULL HANDLE, EYEWASH OPERATED BY PUSH HANDLE WITH STAY OPEN VALVE, STAINLESS STEEL SHOWER HEAD AND BOWL, SAFETY YELLOW FINISH, MEETS ANSI Z358.1. PROVIDE WITH EMERGENCY THERMOSTATIC MIXING VALVE MX-3 AND FD-1.	1-1/4"	-	1-1/4"	-	BRADLEY	S19314
FCO	FLOOR CLEANOUT	EPOXY COATED CAST IRON CLEANOUT WITH 5 IN ROUND ADJUSTABLE NICKEL BRONZE TOP, REMOVABLE GASKETED BRASS CLEANOUT PLUG.	VARIES	-	-	-	WATTS	CO-200-P-R
FD-1	FLOOR DRAIN	EPOXY COATED CAST IRON DRAIN, 5" ROUND HEEL-PROOF NICKEL BRONZE STRAINER, REVERSIBLE CLAMPING COLLAR. PROVIDE WITH DEEP SEAL TRAP, AND TRAP GUARD.	3"	-	-	-	WATTS	FD-100-A
HB-1	HOSE BIBB	VANDAL RESISTANT, 3/4" MALE HOSE CONNECTION.	-	-	3/4"	-	WOODFORD	24
LAV-1 (ADA)	LAVATORY (ADA)	BARRIER FREE – ADA HEIGHT DROP IN LAV. PROVIDE STRAINER, TRAPS, AND STOPS. 4" CENTER-SET MANUAL FAUCET, 0.5 GPM AERATOR. PROVIDE WITH MIXING VALVE MX-1.	2"	2"	1/2"	1/2"	AMERICAN STANDARD AMERICIAN STANDARD	0476.028 6114110.002
LAV-2 (ADA)	ADA LAVATORY	BARRIER FREE – ADA HEIGHT WALL HUNG LAV. PROVIDE STRAINER, TRAPS, STOPS, AND FLOOR MOUNTED CARRIER, 4" CENTER-SET MANUAL FAUCET, 0.5 GPM AERATOR. PROVIDE WITH MIXING VALVE MX-1.	2"	2"	1/2"	1/2"	AMERICAN STANDARD AMERICIAN STANDARD	0355.012 6114110.002
MS-1	MOP SINK	ONE PIECE FLOOR MOUNTED MOP SINK. PROVIDE TRAP AND STRAINER. PROVIDE SERVICE FAUCET, MOP BRACKET, HOSE, AND HOSE BRACKET.	3"	2"	3/4"	3/4"	FIAT	MSBIDTG2424
SH-1	SHOWER	ACRYLIC 1 PIECE SHOWER UNIT WITH GRAB BARS AND STAINLESS CURTAIN ROD. HAND SHOWER WITH 60" HOSE, THERMOSTATIC MIXING VALVE, 1.5 GPM, SHOWER DRAIN WITH TRAP GUARD AND POLISHED CHROME STRAINER.	2"	2"	1/2"	1/2"	COMFORT DESIGNS SYMMONS ZURN	SST 3838 BF 9605-PLR-TRM FD2254-CP
SK-1 (ADA)	DOUBLE BOWL SINK (ADA)	DROP IN, STAINLESS STEEL, DOUBLE BOWL. PROVIDE STRAINER, TRAPS, STOPS, PLASTER TRAP (PT-1). TOP MOUNT FAUCET WITH GOOSENECK SWING SPOUT, WRISTBLADE FAUCET HANDLE, 1.5 GPM AERATOR. PROVIDE WITH MIXING VALVE MX-1.	2"	2"	1/2"	-	ELKAY ELKAY	LRAD372265 LKAV3031
UR-1	URINAL	VITREOUS CHINA, WALL HUNG, STANDARD HEIGHT, MANUAL FLUSH VALVE, DIAPHRAGM TYPE 0.125 GPF LOW CONSUMPTION, WASHOUT, 3/4" INLET SPUD. PROVIDE WALL HANGERS & MOUNTING HARDWARE. BARRIER FREE.	2"	2"	3/4"	-	AMERICAN STANDARD AMERICIAN STANDARD	6002.001 6145013.002
WC-1 (ADA)	WATER CLOSET (ADA)	ELONGATED VITEROUS CHINA, FLOOR MOUNTED, 1-PIECE, ADA HEIGHT, MANUAL FLUSH VALVE, DIAPHRAM TYPE 1.28 GPF. PROVIDE OPEN FRONT SEAT & MOUNTING HARDWARE, MOUNTING RING, BOLTS, AND STOP. BARRIER FREE.	4"	2"	1"	-	AMERICAN STANDARD AMERICIAN STANDARD	3043.001 6147121.002
WH-1	FREEZE-PROOF WALL HYDRANT	WALL HYDRANT, FREEZE PROOF, ANTI-SIPHON, BRASS CASING, VACUUM BREAKER, ALL BRONZE INTERIOR PARTS AND NON TURNING OPERATING ROD WITH FREE FLOATING COMPRESSION CLOSURE VALVE WITH CHROME FINISH AND OPERATING KEY.	-	-	3/4"	-	WATTS	HY-420
WOB	ICE-MAKER/REFRIGERATOR OUTLET BOX	WALL OUTLET BOX WITH BUILT-IN HAMMER ARRESTORS, QUARTER TURN VALVES. WHITE PLASTIC, RECESSED, FIRE RATED. 1/2" INLET AND 1/4" COMPRESSION OUTLET.	-	-	1/2"	-	SIOUX CHIEF	696 SERIES

GAS WATER HEATER SCHEDULE

1. BASIS OF DESIGN IS A.O. SMITH. STATE AND PVI ARE ACCEPTABLE.
2. GAS FIRED WATER HEATERS SHALL BE HIGH EFFICIENCY CONDENSING TYPE WITH MINIMUM EFFICIENCY OF 95%.
3. WATER HEATERS SHALL BE U.L. LISTED AND CSA CERTIFIED PER ANSI Z21.10.3.
4. PROVIDE CONDENSATE NEUTRALIZATION KIT.

MARK	STORAGE CAPACITY (GAL)	GAS INPUT (BTUH)	ELECTRICAL DATA			WATER HEATER DATA		MANUFACTURER	MODEL NO.
			VOLTS	PHASE	HZ	TEMPERATURE RISE	HEATER RECOVERY (GPH)		
GWH-1	60	120,000	120 V	1	60 Hz	80 °F	173	A.O. SMITH	BTH-120

HOT WATER CIRCULATING PUMP SCHEDULE

1. SEE PLANS FOR LOCATIONS

MARK	FLUID DATA		ELECTRICAL DATA	MANUFACTURER	MODEL NO.
	FLOW (GPM)	HEAD (FT)	MOTOR HP		
RCP-1	1 GPM	5	1/25	GRUNDFOS	UP 15-10B5

MIXING VALVE SCHEDULE

MARK	OUTLET SIZE	MIN FLOW	SET TEMP	DESCRIPTION	MANUFACTURER	MODEL
MX-1	1/2"	0.25 GPM	105 °F	THE VALVE SHALL BE ASSE 1070 LISTED. IT SHALL HAVE A LEAD FREE BRASS "H" PATTERN BODY. THE VALVE SHALL INCLUDE INTEGRAL CHECK VALVES, INTEGRAL SCREENS AND AN ADJUSTMENT NUT WITH LOCKING FEATURE.	WATTS	LFUSG-B-M2
MX-2	1"	0.50 GPM	120 °F	THE VALVE SHALL BE ASSE 1017, ASSE 1069, AND ASSE 1070 LISTED. IT SHALL HAVE A LEAD FREE CAST COPPER SILICON ALLOY BODY. THE VALVE SHALL INCLUDE INTEGRAL FILTER WASHERS AND CHECK VALVES AND AN ADJUSTMENT CAP WITH LOCKING FEATURE.	WATTS	LFMMV
MX-3	1"	3.00 GPM	70 °F	THE VALVE SHALL BE ASSE 1017, ASSE 1069, AND ASSE 1070 LISTED. IT SHALL HAVE A LEAD FREE CAST COPPER SILICON ALLOY BODY. THE VALVE SHALL INCLUDE INTEGRAL FILTER WASHERS AND CHECK VALVES AND AN ADJUSTMENT CAP WITH LOCKING FEATURE.	BRADLEY	S19-2250

AVCON, INC.
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AVCON
TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

ENGINEER OF RECORD:
NAME:
FL. LICENSE NO.:

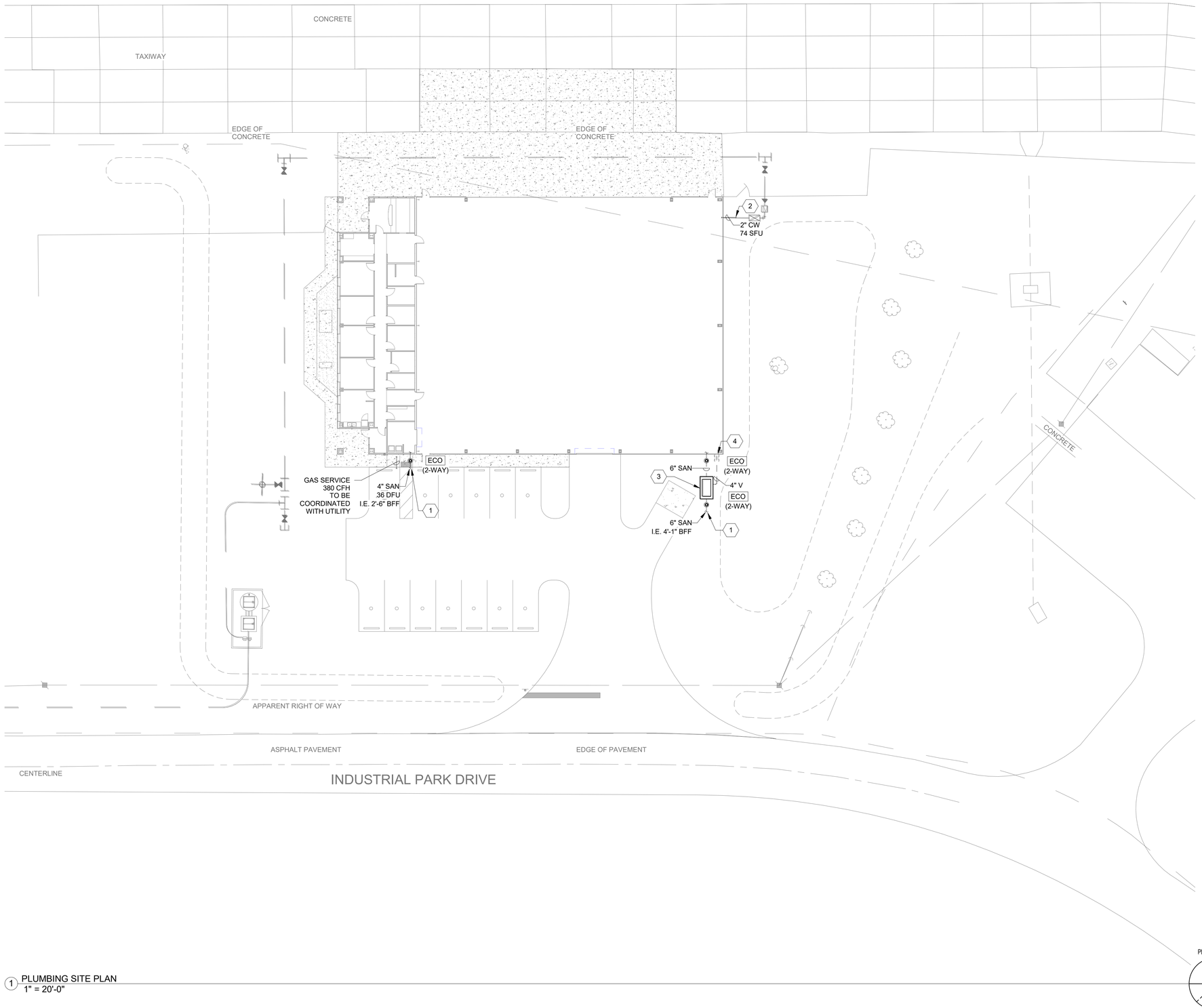
NO.	DATE	REVISIONS:	BY

PLUMBING SYMBOLS, LEGENDS, AND SCHEDULES
RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	JC
DRAWN BY:	JC
CHECKED BY:	ZP
APPROVED BY:	ZP
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET
P001



1 PLUMBING SITE PLAN
1" = 20'-0"

PLUMBING GENERAL NOTES

A.	REPORT ANY ALTERATION TO AND/OR DEVIATIONS FROM THE DRAWINGS AS REQUIRED BY THE ABOVE AUTHORITIES TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE STARTING ALTERATIONS.
B.	THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ARCHITECT/ENGINEER IN ALL CASES OF DOUBT AS TO THE WORK INTENDED, OR IF ADDITIONAL EXPLANATION IS NEEDED.
C.	PIPE ROUTING SHOWN IS SCHEMATIC AND IS INTENDED TO INDICATE GENERAL ROUTING. PLUMBING CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
D.	PROVIDE EQUIPMENT CLEARANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES.
E.	PROVIDE FIRE STOPPING AT ALL PENETRATIONS OF RATED ASSEMBLIES (SLAB AND ANY RATED WALLS).
F.	HANGAR PIPE AND CONDUIT ROUTING, PIPE AND CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS AND STRUCTURE, AVOID DIAGONAL RUNS. PIPE AND CONDUIT SHALL BE RACKED TIGH TOGETHER AND CONCEALED TO THE EXTENT POSSIBLE. ROUTE PIPING AND CONDUIT THRU ROOF DECK FLUTES TO EXTEND POSSIBLE. AVOID OFFSETS, TRAPS, AND POCKETS IN PIPE ROUTING TO THE EXTENT POSSIBLE. PIPING/CONDUIT SHALL BE INSTALLED AS HIGH AS POSSIBLE BUT SHALL BE A MINIMUM OF 20'-0" ABOVE FINISHED FLOOR IN HANGAR AREA ONLY. PAINT ALL EXPOSED PIPING, CONDUIT, ETC. TO MATCH ARCHITECT APPROVED COLOR (WHITE). REFER TO DIVISION 9 FOR PAINTING SPECIFICATIONS.
G.	NOTE ALL GRAVITY DRAINAGE PIPING SHALL BE SLOPED AT 1/8" PER FOOT UNLESS NOTED OTHERWISE.
H.	INSTALL ALL PIPING, EQUIPMENT, CONDUIT, ETC. TIGHT AGAINST ALL WALLS, ROOF, AND COLUMNS.
I.	REFER TO ARCHITECTURAL PLANS FOR DRAINAGE SYSTEM UTILIZING DOWNSPOUTS AND GUTTERS.
J.	PLUMBING PIPING INVERTS ARE REFERENCED TO FINISHED FLOOR ELEVATION 0'0".

PLUMBING KEY NOTES

1	SANITARY POINT OF CONNECTION TO SITE CIVIL, REFERENCE CIVIL DRAWINGS FOR CONTINUATION.
2	DOMESTIC WATER SERVICE POINT OF CONNECTION TO SITE CIVIL, REFERENCE CIVIL DRAWINGS FOR CONTINUATION.
3	PROVIDE OIL WATER SEPARATOR, REFERENCE DETAIL 01/P502.
4	TERMINATE VENT 10' AFF.

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PLUMBING SITE PLAN
RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	JC
DRAWN BY:	JC
CHECKED BY:	ZP
APPROVED BY:	ZP
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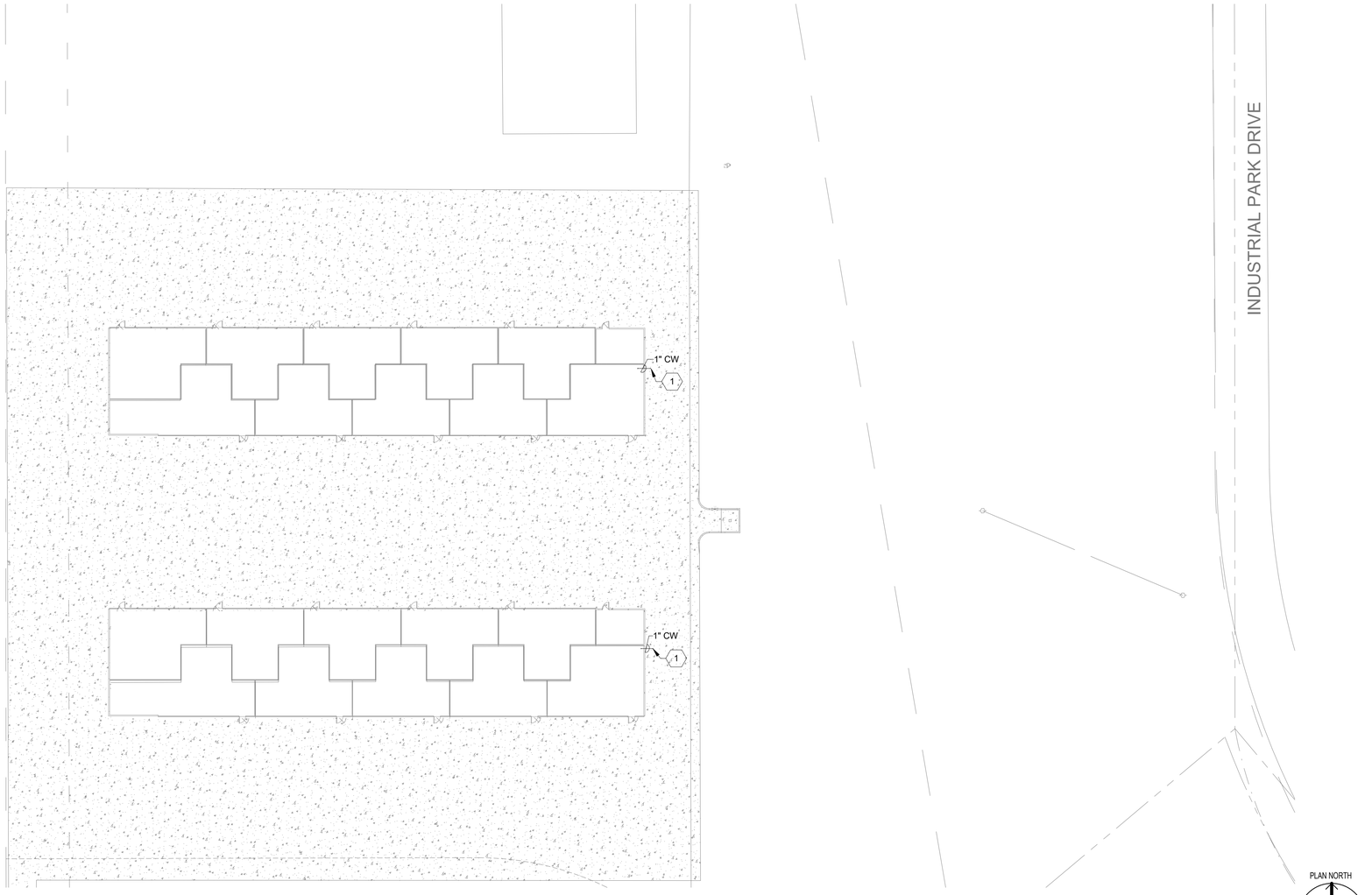
SHEET
P100



1 PLUMBING SITE PLAN - T-HANGARS
1" = 30'-0"

PLUMBING GENERAL NOTES

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I.	REFER TO ARCHITECTURAL PLANS FOR DRAINAGE SYSTEM UTILIZING DOWNSPOUTS AND GUTTERS.
J.	PLUMBING PIPING INVERTS ARE REFERENCED TO FINISHED FLOOR ELEVATION 0'0".

PLUMBING KEY NOTES

1	DOMESTIC WATER SERVICE POINT OF CONNECTION TO SITE CIVIL, REFERENCE CIVIL DRAWINGS FOR CONTINUATION.

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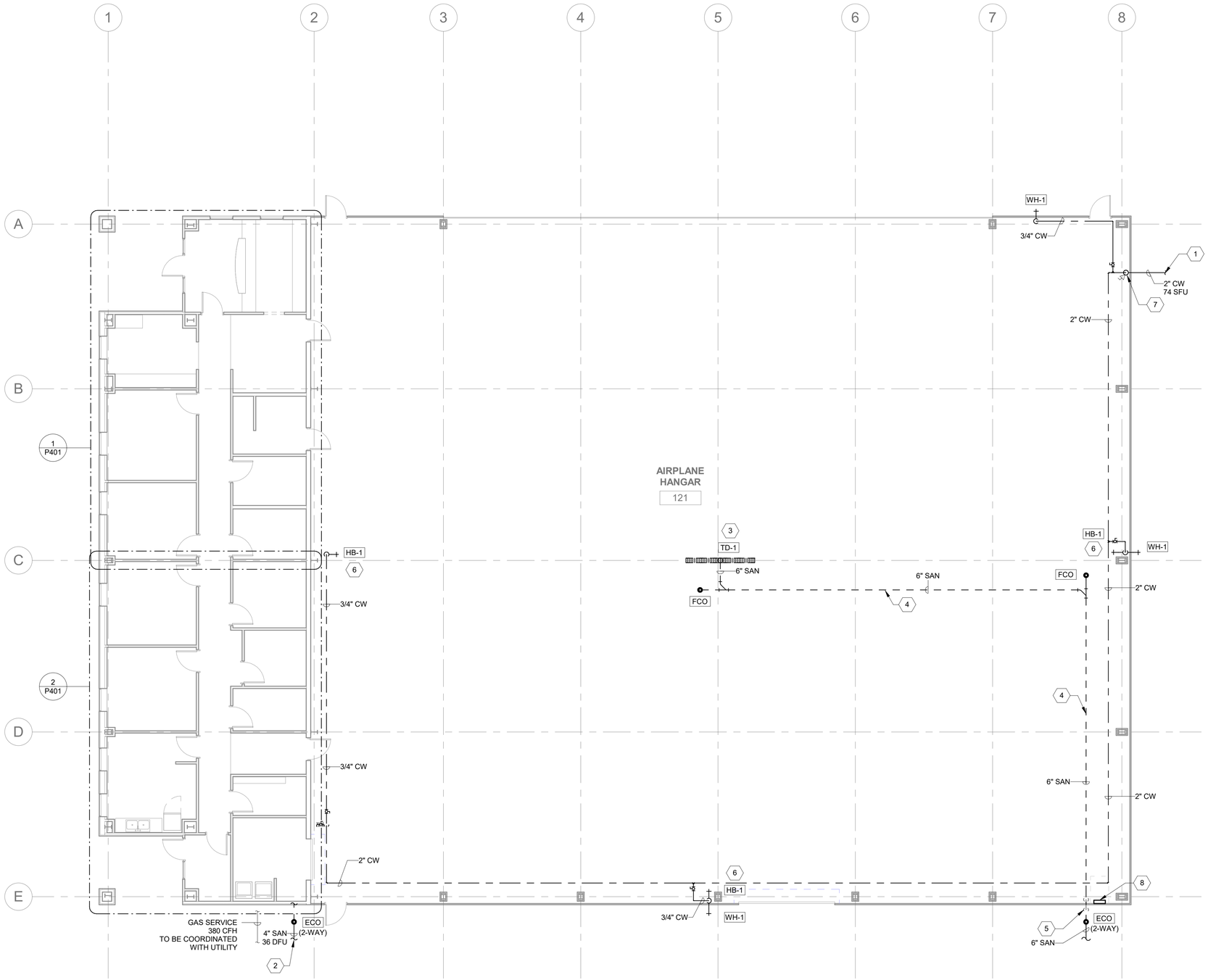
PLUMBING SITE PLAN - T-HANGARS

RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	JC
DRAWN BY:	JC
CHECKED BY:	ZP
APPROVED BY:	ZP
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET
P101



1 PLUMBING 1ST FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH

PLUMBING GENERAL NOTES

A.	REPORT ANY ALTERATION TO AND/OR DEVIATIONS FROM THE DRAWINGS AS REQUIRED BY THE ABOVE AUTHORITIES TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE STARTING ALTERATIONS.
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H.	INSTALL ALL PIPING, EQUIPMENT, CONDUIT, ETC. TIGHT AGAINST ALL WALLS, ROOF, AND COLUMNS.
I.	REFER TO ARCHITECTURAL PLANS FOR DRAINAGE SYSTEM UTILIZING DOWNSPOUTS AND GUTTERS.
J.	PLUMBING PIPING INVERTS ARE REFERENCED TO FINISHED FLOOR ELEVATION 0'0".

PLUMBING KEY NOTES

1	DOMESTIC WATER SERVICE POINT OF CONNECTION TO SITE CIVIL, REFERENCE CIVIL DRAWINGS FOR CONTINUATION.
2	SANITARY POINT OF CONNECTION TO SITE CIVIL, REFERENCE CIVIL DRAWINGS FOR CONTINUATION.
3	8" WIDE TRENCH DRAIN ASSEMBLY. TRENCH DRAIN ASSEMBLY SHALL BE RATED FOR CLASS F AIRCRAFT STRUCTURAL LOADING. REFERENCE DETAIL 03/P501.
4	TRENCH DRAIN WASTE PIPING SHALL BE DUCTILE IRON IN ACCORDANCE WITH SPECIFICATION 22 05 00.
5	PROVIDE NEW VENT THROUGH SIDE WALL. TURN DOWN AT BUILDING EXTERIOR AND PROVIDE BIRD SCREEN AT OPENING. VENT OPENING SHALL TERMINATE 10' AFF. REFERENCE SANITARY RISER FOR VENT SIZING.
6	SURFACE MOUNTED HOSE BIBB, REFENCE DETAIL 06/P501.
7	PROVIDE DOMESTIC WATER SHUT-OFF VALVE AT 5-0" AFF MAXIMUM.
8	OIL WATER SEPARATOR MONITOR PANEL. PROVIDE PARK-USA OIL TROOPER HIGH OIL ALARM PANEL OR APPROVED EQUAL. CONTROLLER SHALL PROVIDE AN AUDIO/VISUAL HIGH OIL LEVEL ALARM. UNIT SHALL HAVE SILENCE BUTTON. PROVIDE NEMA 4X RATED ENCLOSURE.

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FL. LICENSE NO.:

NO.	DATE	REVISIONS:	BY

PLUMBING 1ST FLOOR PLAN

RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	JC
DRAWN BY:	JC
CHECKED BY:	ZP
APPROVED BY:	ZP
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET
P102

PLUMBING KEY NOTES

1	DOMESTIC WATER SERVICE POINT OF CONNECTION TO SITE CIVIL, REFERENCE CIVIL DRAWINGS FOR CONTINUATION.
2	PROVIDE DOMESTIC WATER SHUT-OFF VALVE IN VALVE BOX. REFER TO DETAIL 5/P503.

PLUMBING GENERAL NOTES

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C.	PIPE ROUTING SHOWN IS SCHEMATIC AND IS INTENDED TO INDICATE GENERAL ROUTING. PLUMBING CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
D.	PROVIDE EQUIPMENT CLEARANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES.
E.	PROVIDE FIRE STOPPING AT ALL PENETRATIONS OF RATED ASSEMBLIES (SLAB AND ANY RATED WALLS).

PLUMBING GENERAL NOTES

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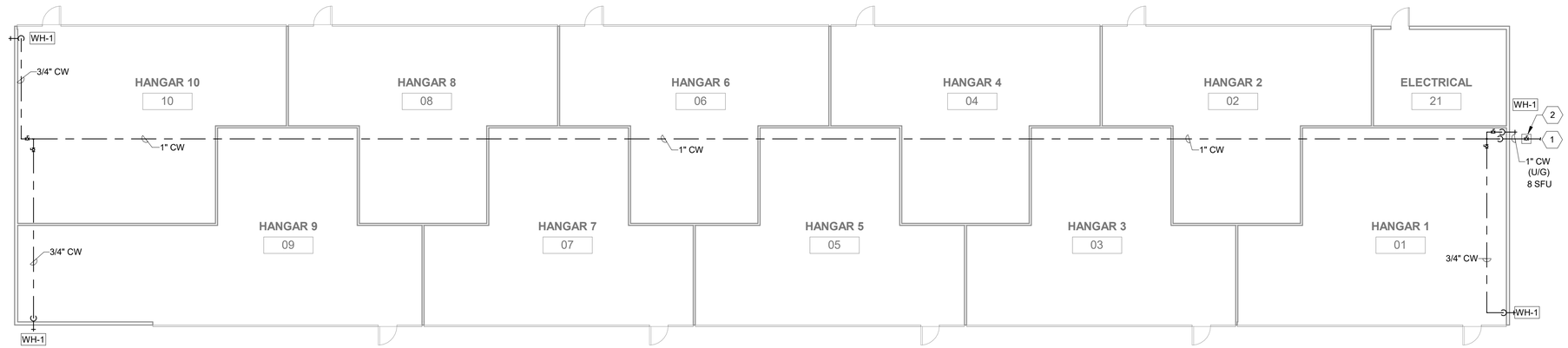
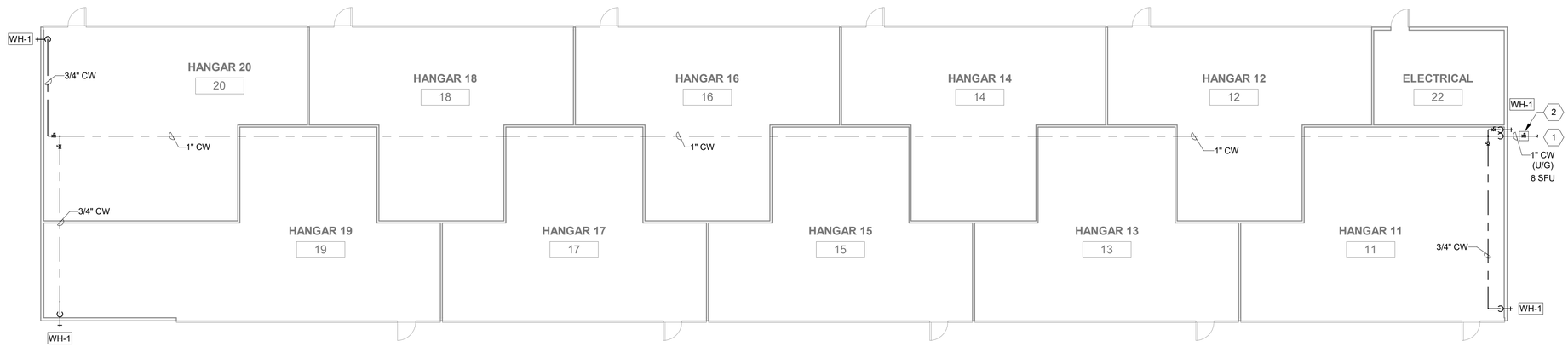


1 PLUMBING 1ST FLOOR PLAN - T-HANGAR 1
3/32" = 1'-0"



2 PLUMBING 1ST FLOOR PLAN - T-HANGAR 2
3/32" = 1'-0"

PLAN NORTH

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PLUMBING 1ST FLOOR PLAN - T-HANGARS

RELEASE FOR BID

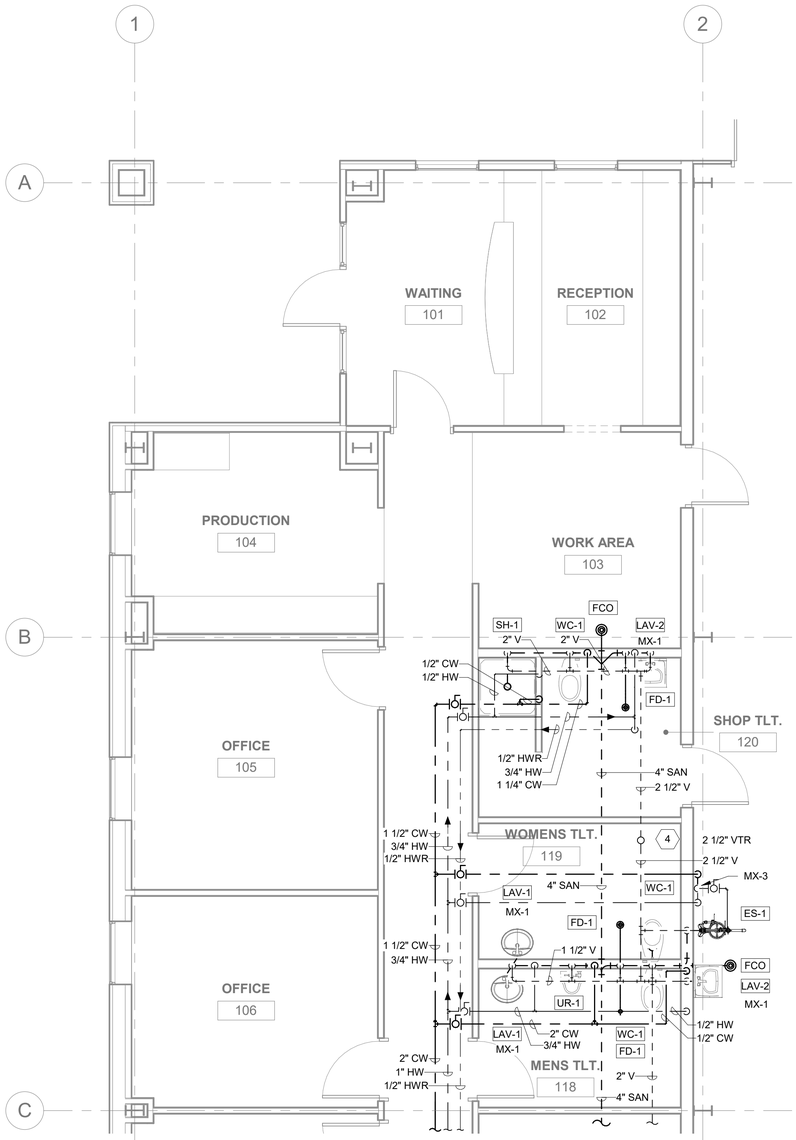
MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

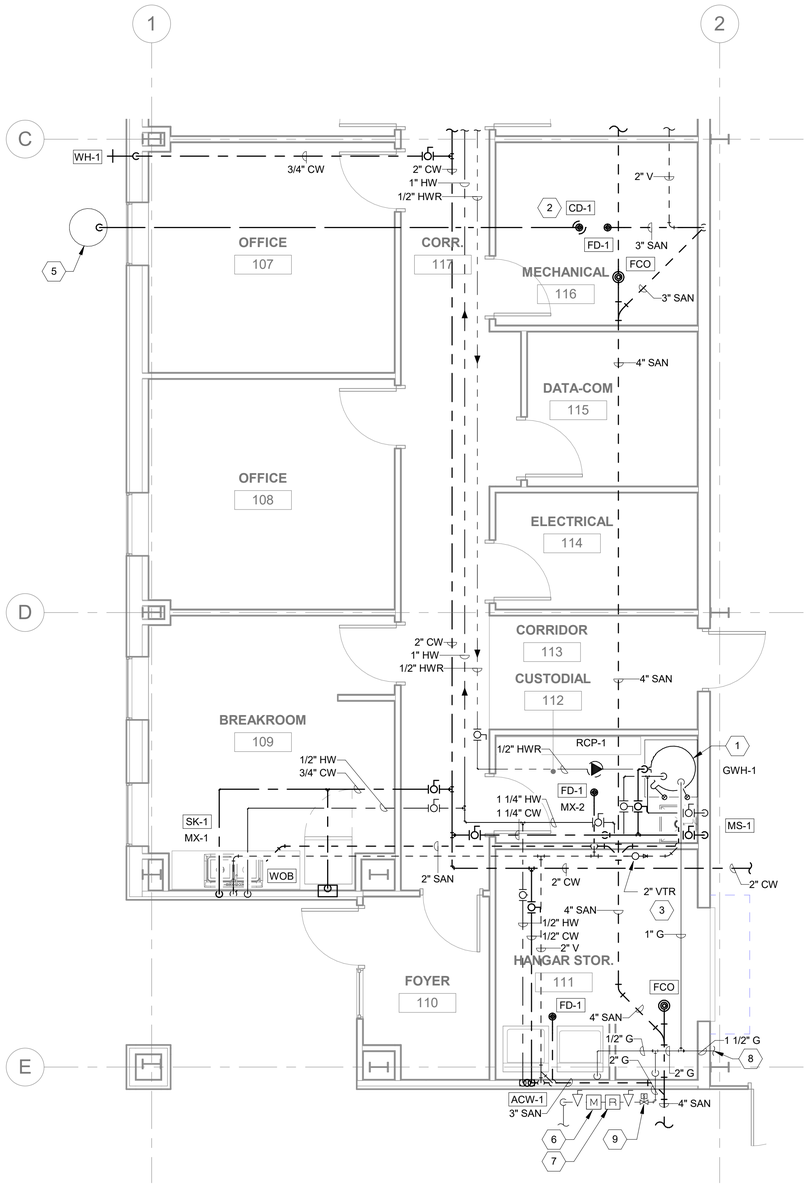
CITY OF MARIANNA

DESIGNED BY:	JC
DRAWN BY:	JC
CHECKED BY:	ZP
APPROVED BY:	ZP
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET
P103



1 PLUMBING ENLARGED PLAN - OFFICE NORTH
1/4" = 1'-0"



2 PLUMBING ENLARGED PLAN - OFFICE SOUTH
1/4" = 1'-0"

PLAN NORTH

PLUMBING GENERAL NOTES

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C.	PIPE ROUTING SHOWN IS SCHEMATIC AND IS INTENDED TO INDICATE GENERAL ROUTING. PLUMBING CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
D.	PROVIDE EQUIPMENT CLEARANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES.
E.	PROVIDE FIRE STOPPING AT ALL PENETRATIONS OF RATED ASSEMBLIES (SLAB AND ANY RATED WALLS).
F.	HANGAR PIPE AND CONDUIT ROUTING. PIPE AND CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS AND STRUCTURE, AVOID DIAGONAL RUNS. PIPE AND CONDUIT SHALL BE RACKED TIGH TOGETHER AND CONCEALED TO THE EXTENT POSSIBLE. ROUTE PIPING AND CONDUIT THRU ROOF DECK FLUTES TO EXTEND POSSIBLE. AVOID OFFSETS, TRAPS, AND POCKETS IN PIPE ROUTING TO THE EXTENT POSSIBLE. PIPING/CONDUIT SHALL BE INSTALLED AS HIGH AS POSSIBLE BUT SHALL BE A MINIMUM OF 20'-0" ABOVE FINISHED FLOOR IN HANGAR AREA ONLY. PAINT ALL EXPOSED PIPING, CONDUIT, ETC. TO MATCH ARCHITECT APPROVED COLOR (WHITE). REFER TO DIVISION 9 FOR PAINTING SPECIFICATIONS.
G.	NOTE ALL GRAVITY DRAINAGE PIPING SHALL BE SLOPED AT 1/8" PER FOOT UNLESS NOTED OTHERWISE.
H.	INSTALL ALL PIPING, EQUIPMENT, CONDUIT, ETC. TIGHT AGAINST ALL WALLS, ROOF, AND COLUMNS.
I.	REFER TO ARCHITECTURAL PLANS FOR DRAINAGE SYSTEM UTILIZING DOWNSPOUTS AND GUTTERS.
J.	PLUMBING PIPING INVERTS ARE REFERENCED TO FINISHED FLOOR ELEVATION 0'0".

PLUMBING KEY NOTES

1	PROVIDE NEW GAS-FIRED WATER HEATER AS SHOWN. REFERENCE DETAIL 3/P503 AND GAS WATER HEATER SCHEDULE ON SHEET P001. REFERENCE EQUIPMENT CONNECTION DETAIL 02/P503.
2	COORDINATE EXACT LOCATION OF CONDENSATE DRAIN WITH FINAL LOCATION OF AHU. REFERENCE MECHANCIAL PLANS.
3	2" V UP TO VTR. REFERENCE DETAIL 04/P501 FOR VENT PENETRATION THROUGH ROOF DETAIL.
4	2-1/2" V UP TO VTR. REFERENCE DETAIL 04/P501 FOR VENT PENETRATION THROUGH ROOF DETAIL.
5	PROVIDE CONDENSATE DRYWELL. REFERENCE DETAIL 03/P502.
6	PROVIDE NEW GAS METER BY UTILITY. 316 CFH. PROVIDE BOLLARDS AT METER FOR PROTECTION. REFERENCE DETAIL 1/P503. PROVIDE CLEARANCES AT METER IN ACCORDANCE WITH UTILITY REQUIREMENTS FOR SERVICE AND MAINTENANCE. PROVIDE REINFORCED CONCRETE PAD FOR METER BASE. PROVIDE FIRST STAGE STAGE GAS REGULATOR AT METER FOR 14" WC PRESSURE TO BUILDING.
7	REGULATOR VENT SHALL TERMINATE WITH MINIMUM CLEARANCES PER NFPA 54 AND MINIMUM 10' CLEARANCE TO MECHANICAL INTAKES AND 4' FROM OPERABLE WINDOWS OR DOORS. REGULATOR VENT SHALL BE 3' MINIMUM FROM A SOURCE OF IGNITION.
8	REFER TO MECHANICAL FLOOR PLAN ON SHEET M101 FOR GAS PIPING ROUTING IN HANGAR.
9	PROVIDE GAS LINE EMERGENCY SHUT-OFF VALVE. HONEYWELL, ASCO, OR APPROVED EQUAL. VALVE SHALL BE SHUT OFF BY FIRE ALARM SYSTEM. EMERGENCY SHUT-OFF VALVE SHALL HAVE MANUAL RESET.

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PLUMBING ENLARGED FLOOR PLAN
RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT
PREPARED FOR
CITY OF MARIANNA

DESIGNED BY:	JC
DRAWN BY:	JC
CHECKED BY:	ZP
APPROVED BY:	ZP
PROJECT NO.	2022.0260.03
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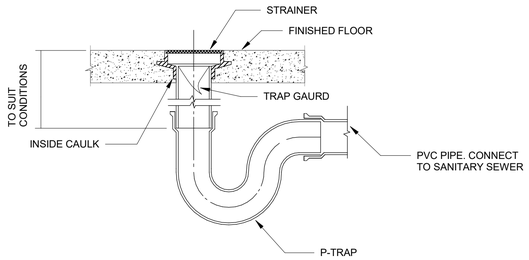
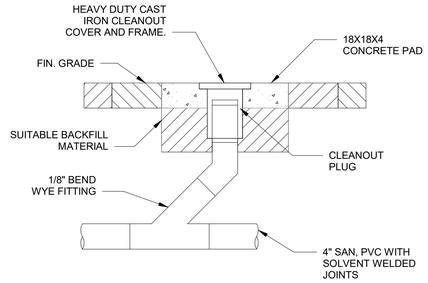
SHEET
P401

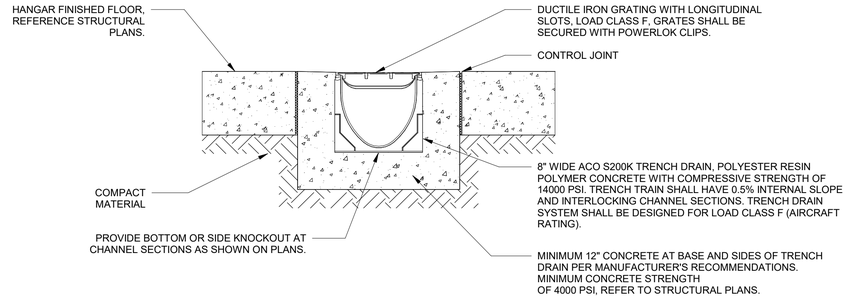


1 FLOOR DRAIN DETAIL
NOT TO SCALE

NOTE: PROVIDE ALL FLOOR DRAINS WITH TRAP GAURDS.



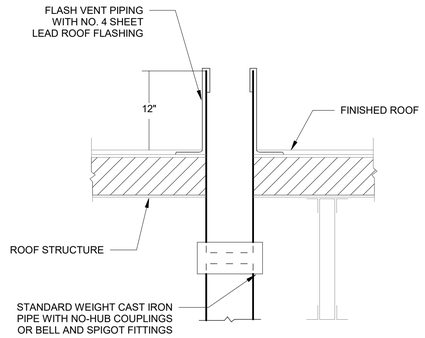
2 EXTERIOR CLEANOUT DETAIL
NOT TO SCALE



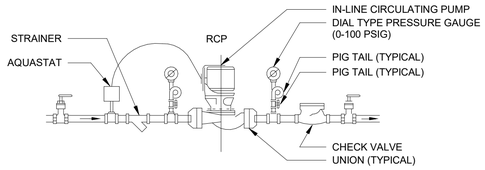
3 TRENCH DRAIN DETAIL
NOT TO SCALE

NOTE:

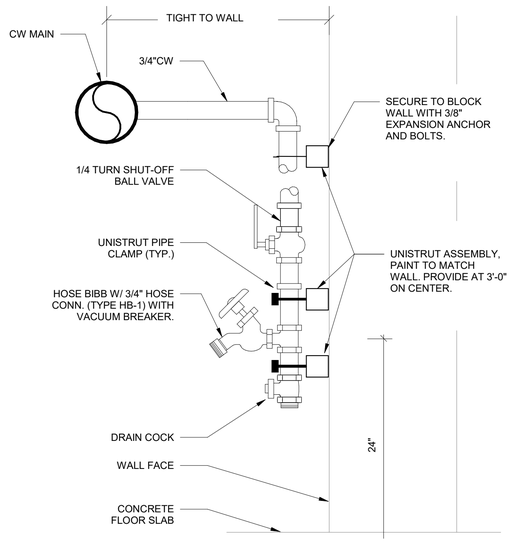
TRENCH DRAIN INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.



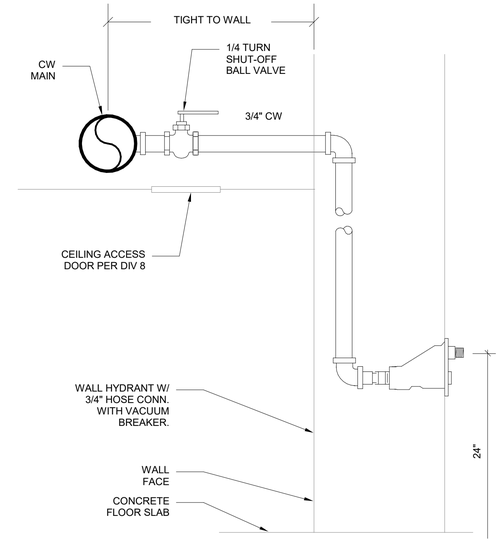
4 VTR DETAIL
NOT TO SCALE



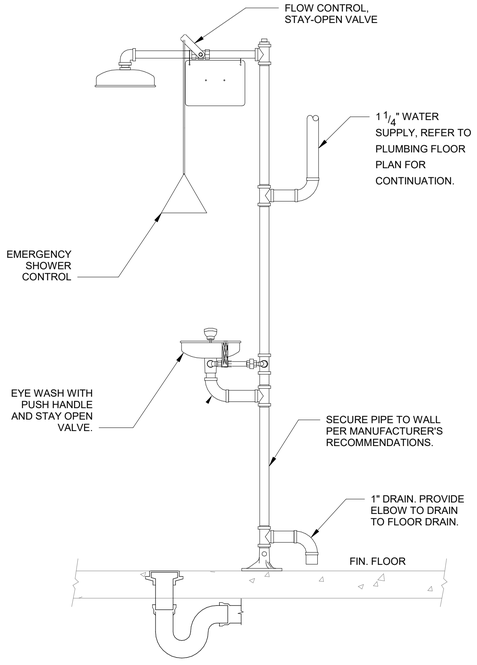
5 RECIRCULATION PUMP
NOT TO SCALE



6 EXPOSED HOSE BIBB DETAIL
NOT TO SCALE



7 WALL HYDRANT DETAIL
NOT TO SCALE



8 EMERGENCY SHOWER EYE WASH DETAIL
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PLUMBING DETAILS

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MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	JC
DRAWN BY:	JC
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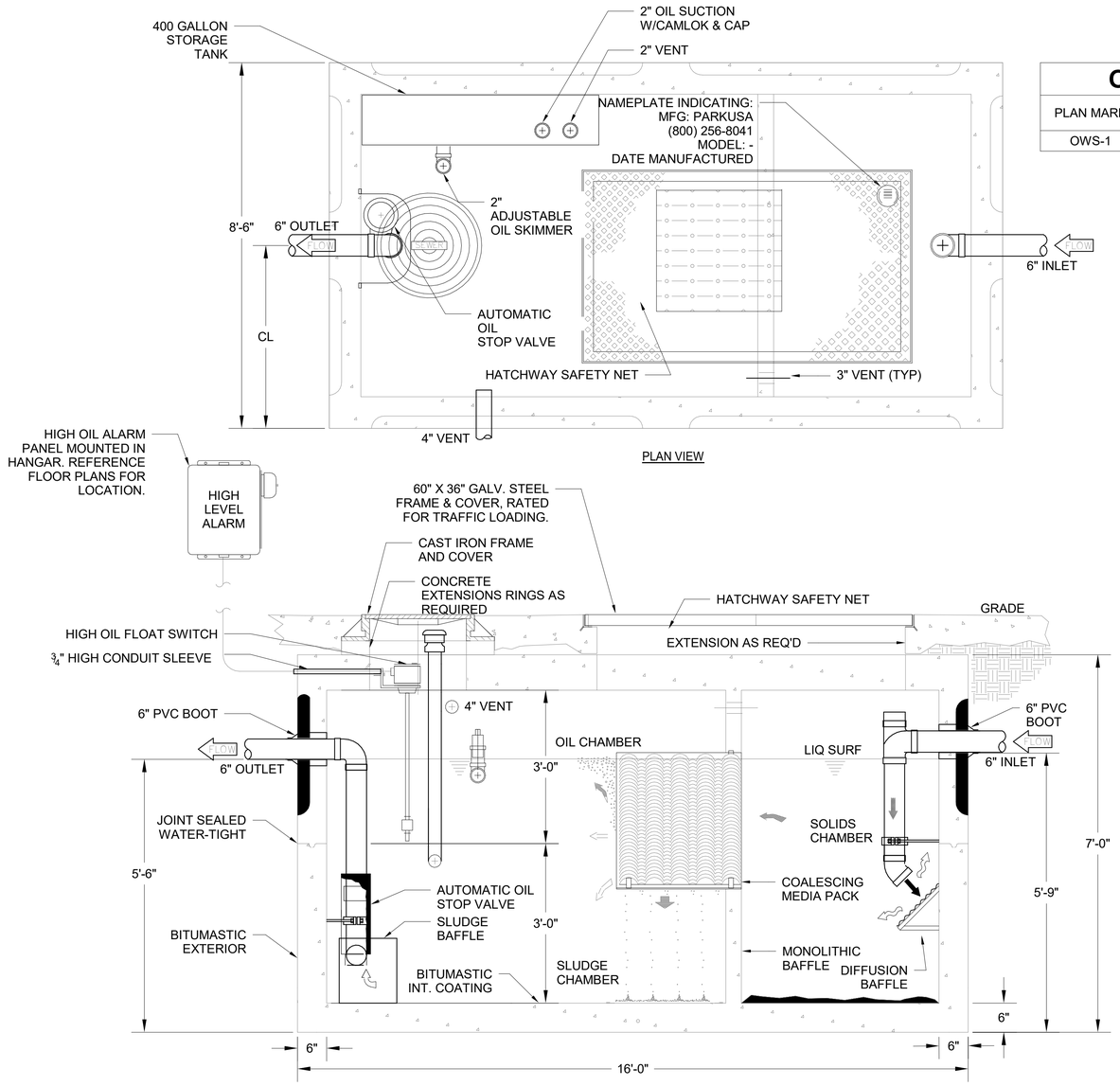
SHEET
P501



OIL WATER INTERCEPTOR SCHEDULE

PLAN MARK	MODEL NO.	CAPACITY USGal	OIL CAP. US (GAL)	FLOW RATE (GPM)	LENGTH L1	WIDTH W1	HEIGHT H1
OWS-1	SOCMP-1000	1,000	500	-	8' - 8"	5' - 0"	6' - 0"

SPECIFICATIONS:

CONCRETE: CLASS I/II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

C.I. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GRAY CAST IRON CONFORMING TO ASTM A48-76 CLASS 35. MANHOLE SHALL HAVE 24 INCH INSIDE DIAMETER

ENGINEERING DATA:

INTERCEPTOR IS STRUCTURALLY AND HYDRAULICALLY ENGINEERED CONFORMING TO FLORIDA PLUMBING CODE. NOMINAL CAPACITY AS INDICATED.

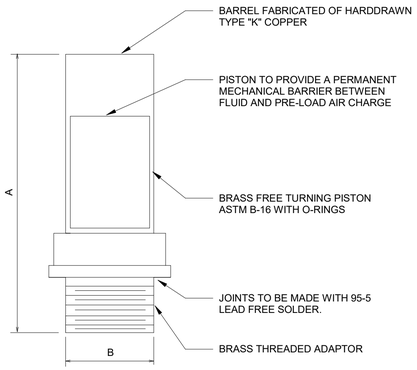
OIL/WATER INTERCEPTOR SHALL HAVE STATE APPROVAL (FAC) 64C-6.013 FLORIDA ADMINISTRATION CODE, FBC SECTION 1003.4 THRU 1003.4.2.2 AND FLORIDA ADMINISTRATION CODE.

FIELD EXCAVATION AND PREPARATION SHALL BE COMPLETED PRIOR TO DELIVERY OF INTERCEPTOR. USE DIMENSIONAL DATA AS SHOWN. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL OPENINGS AND VERIFY FIELD CONDITIONS.

MANUFACTURER SHALL SUBMIT PERFORMANCE CALCULATIONS FOR OIL & WATER SEPARATOR CERTIFIED AND SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER.

THE CONTRACTOR SHALL INSTALL CAST-IN PLACE LADDER RUNGS FOR THE INSIDE STRUCTURE FACE OF THE OIL WATER SEPARATORS (IF REQUIRED DUE TO DEPTH) IN ACCORDANCE WITH OSHA REQUIREMENTS.

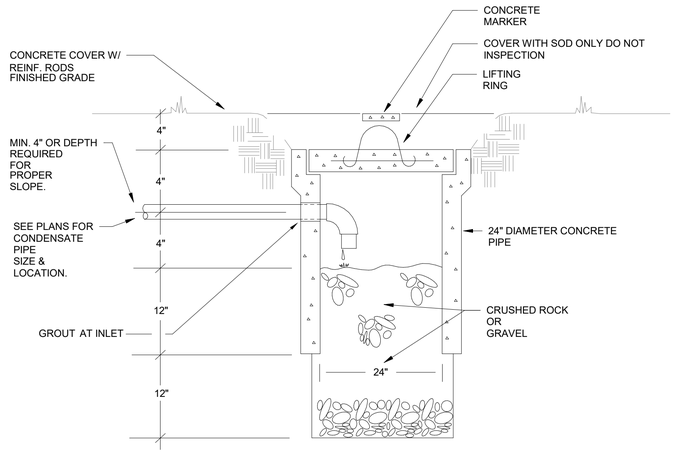
1 OIL WATER INTERCEPTOR DETAIL
NOT TO SCALE



PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

2 WATER SHOCK ARRESTOR DETAIL
NOT TO SCALE

NOTES:
1) SEE WATER RISER DIAGRAMS FOR LOCATIONS OF SHOCK ABSORBERS.
2) WATER HAMMER ARRESTOR SHALL BE BY MANUFACTURER APPROVING INSTALLATION REQUIRING ZERO ACCESS.



3 CONDENSATE DRYWELL DETAIL
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MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

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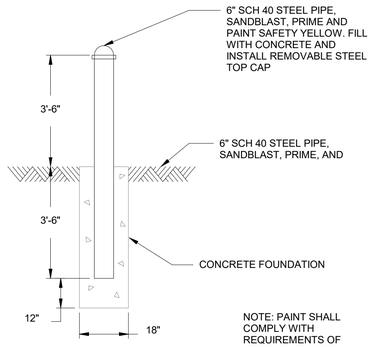
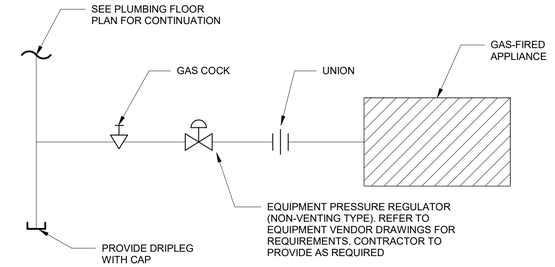
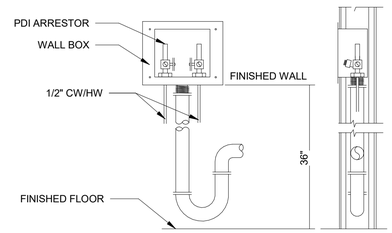
SHEET
P502



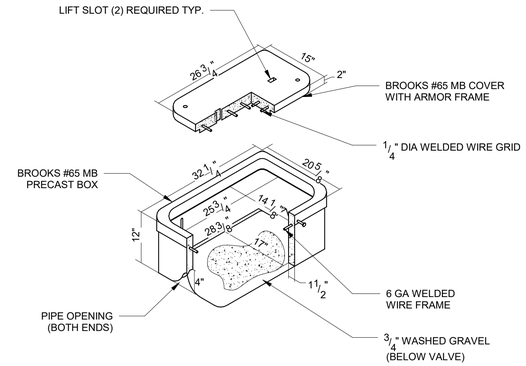
1 BOLLARD DETAIL
NOT TO SCALE



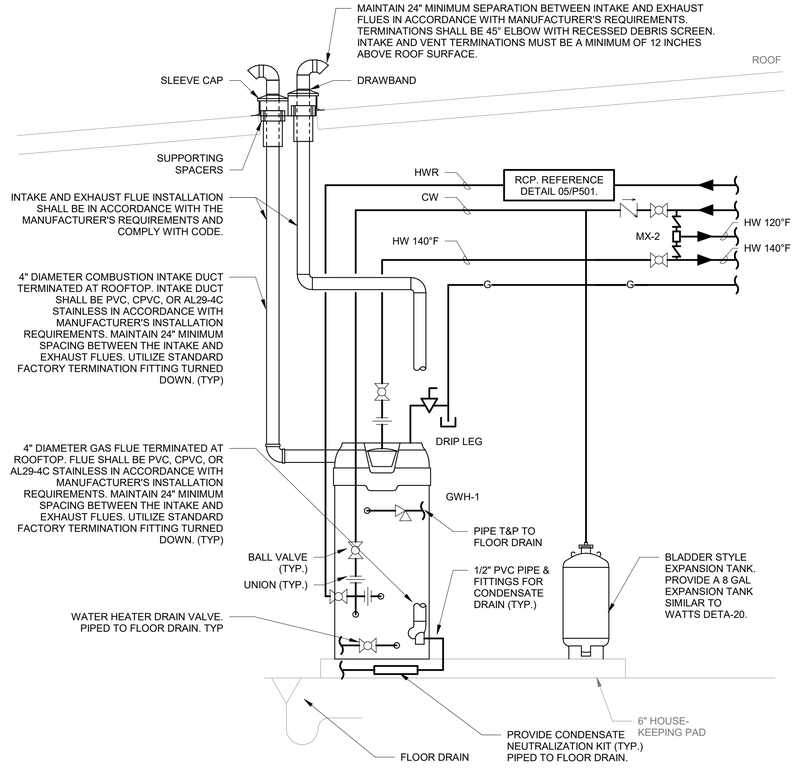
2 GAS PIPING CONNECTION
NOT TO SCALE



4 WALL OUTLET BOX DETAIL
NOT TO SCALE



5 VALVE BOX DIAGRAM
NOT TO SCALE



3 GAS WATER HEATER DETAIL
NOT TO SCALE

NOTE:
1. ALL PIPING SHALL BE SECURED TO MAKE RIGID.
2. ALL LINES TO BE FULL SIZE TO POINT OF CONNECTION AT HEATER.

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PREPARED FOR

CITY OF MARIANNA

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APPROVED BY:	ZP
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SHEET
P503

1 SANITARY RISER DIAGRAM - OFFICE
NOT TO SCALE

2 SANITARY RISER DIAGRAM - HANGAR
NOT TO SCALE

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PLUMBING RISERS

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SHEET

P601

1 DOMESTIC RISER DIAGRAM
NOT TO SCALE

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PLUMBING RISERS

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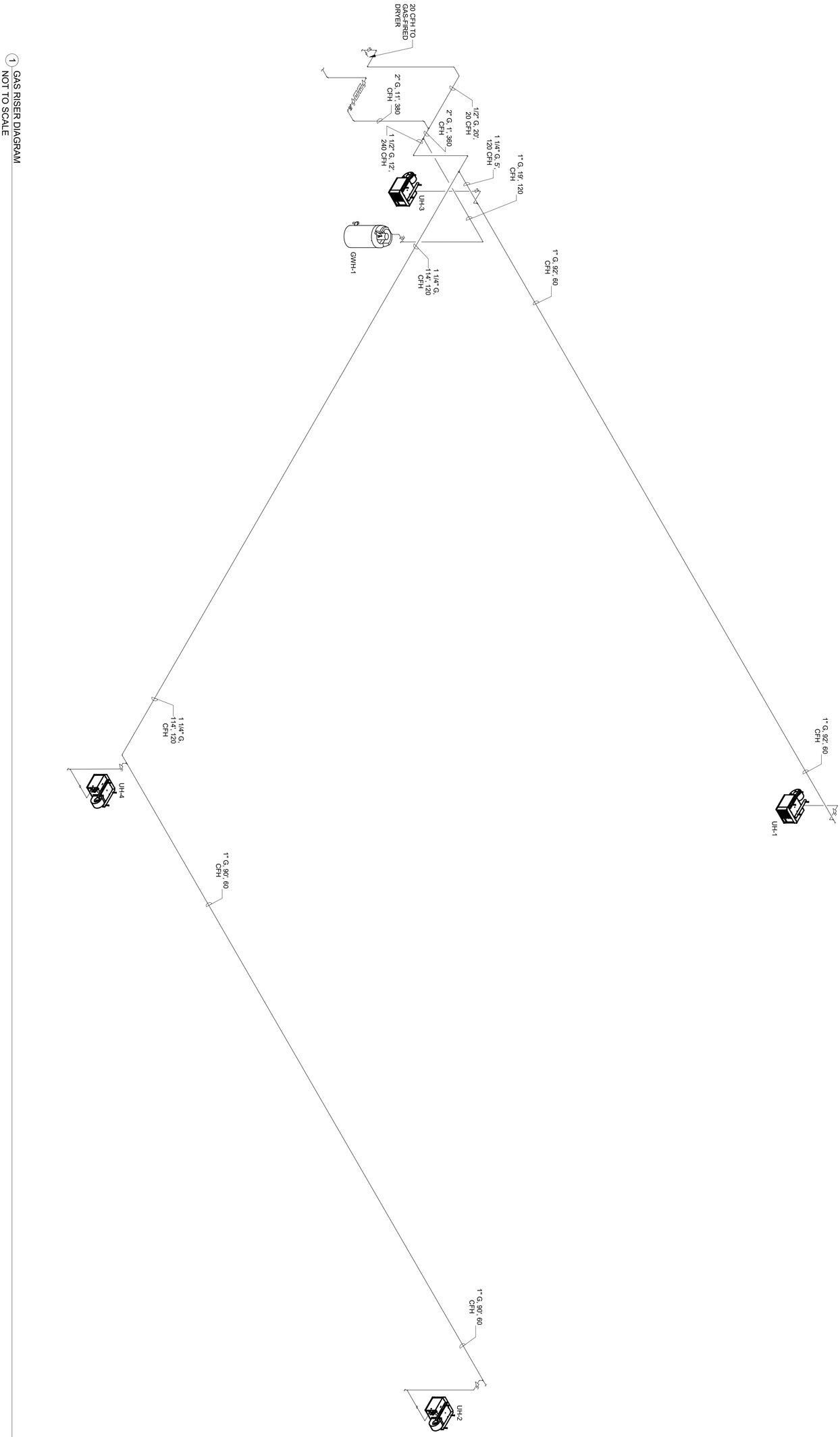
SHEET
P602



1 GAS RISER DIAGRAM
NOT TO SCALE

P603

SHEET

DESIGNED BY: JC
DRAWN BY: JC
CHECKED BY: ZP
APPROVED BY: ZP
PROJECT NO. 2022.0280.03
DATE: JANUARY 2024

MARIANNA HANGAR DEVELOPMENT

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CITY OF MARIANNA

PLUMBING RISERS

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FIRE PROTECTION LEGEND

F	FIRE LINE
	FIRE DEPARTMENT CONNECTION
	CHECK VALVE
	FIRE DEPARTMENT VALVE
	FIRE RISER (CONTROL VALVE ASSEMBLY)
	PIV
	FIRE RISER (CONTROL VALVE ASSEMBLY)
	PIPE UP
	PIPE DOWN

FIRE PROTECTION SHEET INDEX

FAC 61G15-32.003 NOTES

32.003(1) THE FIRE SPRINKLER CONTRACTOR SHALL PREPARE DETAILED WORKING PLANS IN ACCORDANCE WITH NFPA 13, 2016 EDITION. THE FIRE PROTECTION SYSTEM LAYOUT SHALL FOLLOW THE DESIGN GUIDELINES SET FORTH IN THESE FIRE PROTECTION ENGINEERING DOCUMENTS.

32.003(2) THE FIRE SPRINKLER CONTRACTOR SHALL OBTAIN THE ACCEPTANCE TESTS FROM THE LOCAL AUTHORITY. THE ACCEPTANCE TEST FOR THE SPRINKLER SYSTEM PIPING SHALL BE IN ACCORDANCE WITH NFPA 13, CHAPTER 16 AND NFPA 25.

FAC 61G15-32.004 NOTES

32.004(2)(a) THE POINT OF SERVICE IS INDICATED AT POST INDICATOR VALVE. AT THIS POINT, THE SYSTEM IS DEDICATED SOLELY FOR FIRE PROTECTION PURPOSES. NO DOMESTIC WATER SHALL BE TAKEN FROM THE SYSTEM BEYOND THIS POINT FOR OTHER PURPOSES.

32.004(2)(b) THE FOLLOWING ARE APPLICABLE STANDARDS:
2020 FLORIDA FIRE PREVENTION CODE
NFPA 13, 2016 EDITION, INSTALLATION OF SPRINKLER SYSTEMS.
NFPA 24, 2016 EDITION, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
NFPA 25, 2017 EDITION, INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS.

32.004(2)(c) CLASSIFICATIONS OF HAZARD OCCUPANCIES FOR THE AREAS OF DESIGN SHALL BE AS INDICATED ON THE DRAWINGS.

32.004(2)(d) THE SPRINKLER SYSTEM SHALL BE WET PIPE FOR OFFICES, CORRIDORS AND SUPPORT SPACES FOR A LIGHT HAZARD OCCUPANCY AND SHALL BE HYDRAULICALLY CALCULATED PER NFPA 13, 2016 EDITION, 0.10gpm/sq.ft. OVER THE MOST REMOTE 1500sq.ft. SPRINKLERS SHALL HAVE A TEMPERATURE RATING OF 155°F AND THE SPACING SHALL BE 225sq.ft. INCLUDE A FIRE HOSE ALLOWANCE OF 100gpm.
THE SPRINKLER SYSTEM SHALL BE WET PIPE FOR THE MECHANICAL ROOMS, KITCHEN, SCIENCE PASSENGER SPACES, ELECTRICAL ROOMS AND STORAGE FOR AN ORDINARY HAZARD GROUP 1 OCCUPANCY AND SHALL BE HYDRAULICALLY CALCULATED PER NFPA 13, 2016 EDITION, 0.15gpm/sq.ft. OVER THE MOST REMOTE 1500sq.ft. SPRINKLERS SHALL HAVE A TEMPERATURE RATING OF 155°F AND THE SPACING SHALL BE 130sq.ft. INCLUDE A FIRE HOSE ALLOWANCE OF 250gpm.

32.004(2)(e). WATER SUPPLY: THESE BUILDINGS WILL EACH HAVE A NEW 6" WATER SUPPLY FOR FIRE SPRINKLER PROTECTION, WHICH CONNECTS TO A WATER MAIN AS SHOWN ON THE CIVIL PLANS.

32.004(2)(f) WATER SUPPLY INFORMATION SHALL BE OBTAINED FROM THE LOCAL UTILITY BASED ON THE PROVIDED FIRE FLOW CONDITIONS.

32.004(2)(g) VALVE AND ALARM REQUIREMENTS: ALL CONTROL VALVES ON SPRINKLER RISERS AND FIRE PROTECTION BACKFLOW PREVENTERS SHALL HAVE A TAMPER SWITCH. THE FLOW SWITCH SHALL BE SET TO NOT ALARM WITH MINOR CITY WATER PRESSURE FLUCTUATIONS. HOWEVER, THE FLOW OF ONE SPRINKLER HEAD SHALL PRODUCE AN ALARM CONDITION BY TRIPPING THE FLOW SWITCH. ALL FLOW AND TAMPER SWITCHES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM PANEL. FLOW SWITCHES SHALL ALSO SOUND THE ELECTRIC ALARM BELL ON THE OUTSIDE WALL. FIRE SPRINKLER CONTRACTOR SHALL VERIFY AND TEST PER NFPA 13.

32.004(2)(h) THE LOCAL WATER PURVEYOR IS REQUESTED TO ADVISE THE ENGINEER OF RECORD IF CONDITIONS EXIST IN THEIR WATER SUPPLY THAT COULD LEAD TO MIC, SO THAT THE ENGINEER CAN DESIGN CORRECTIVE MEASURES. THERE ARE NO KNOWN MIC CONDITIONS IN THE COLLIER COUNTY WATER SYSTEMS.

32.004(2)(i) BACKFLOW PREVENTER AND METERING SPECIFICATIONS SHALL MEET OR EXCEED REQUIREMENTS OF THE LOCAL UTILITY AND AHJ.

32.004(2)(j) YARD AND INTERIOR FIRE PROTECTION COMPONENTS: PRODUCT DATA SHEETS SHALL BE SUBMITTED BY THE SPRINKLER CONTRACTOR ALONG WITH THEIR SHOP DRAWINGS. ALL FIRE PROTECTION DEVICES AND COMPONENTS SHALL BE UL LISTED AND FM APPROVED.

FIRE PROTECTION GENERAL NOTES

1. WET PIPE SPRINKLER SYSTEM DESIGNED PER NFPA 13, 2016 EDITION.
LIGHT HAZARD OCCUPANCY (OFFICES, CORRIDORS AND SUPPORT SPACES) USING 0.10gpm/sq.ft. OVER THE MOST REMOTE 1500 sq.ft., 225 sq.ft. MAXIMUM HEAD SPACING & 100gpm HOSE STREAM TO MEET OR EXCEED THE REQUIREMENTS OF NFPA 13, 2016 EDITION AND LOCAL AUTHORITIES. ORDINARY HAZARD GROUP 1 OCCUPANCY (MECHANICAL ROOMS, PASSENGER AREAS, ELECTRICAL ROOMS AND STORAGE USING 0.15gpm/sf.ft. OVER THE MOST REMOTE 1500 sq.ft., 130 sq.ft. MAXIMUM HEAD SPACING AND 250gpm HOSE STREAM TO MEET OR EXCEED THE REQUIREMENTS OF NFPA 13, 2010 ADDITION AND LOCAL AUTHORITIES.
2. ALL FIRE SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13, 2016 EDITION.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 13, 2016 EDITION.
4. ALL HANGERS & MATERIALS TO BE IN ACCORDANCE WITH NFPA 13, 2016 EDITION.
5. FIRE PROTECTION PIPING 2 1/2" AND LARGER TO BE SCHEDULE 10 BLACK PIPE, U.N.O. FIRE PROTECTION PIPING 2" AND SMALLER TO BE SCHEDULE 40 BLACK PIPE, U.N.O.
6. PIPE TO HANG AT 12"~ ABOVE FINISHED CEILING. COORDINATE WITH ALL STRUCTURAL ELEMENTS AND ABIDE BY ALL OBSTRUCTION RULES PER NFPA 13, 2016 EDITION AND FIRE SPRINKLER MANUFACTURER'S SPECIFICATIONS.
7. UPRIGHT SPRINKLERS TO BE LOCATED BETWEEN 1" AND 12" BELOW ROOF DECK.
8. SPRINKLER HEAD SPACING IS PER NFPA 13, 2016 EDITION.
9. THE CONTRACTOR SHALL PROVIDE, OR HAVE PROVIDED, A SET OF COORDINATION DRAWINGS FOR ALL SYSTEMS AND FEATURES THAT OCCUR ABOVE THE CEILING PLANE. THE COORDINATION DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO, STRUCTURAL MEMBERS, HVAC DUCTWORK, HYDRONIC PIPING, PLUMBING SUPPLY AND WASTE PIPING, FIRE PROTECTION PIPING, ELECTRICAL POWER CONDUITS AND RACEWAYS, AND ELECTRICAL LOW VOLTAGE CONDUITS AND RACEWAYS. THE COORDINATION DRAWINGS SHALL PROVIDE, APPORTION, AND COORDINATE SPACE FOR ALL SYSTEMS, HORIZONTALLY AND VERTICALLY ABOVE THE CEILING PLANE TO THE STRUCTURAL DECK ABOVE ALLOWING EACH TRADE CONTRACTOR THE SPACE TO PROPERLY EXECUTE HIS PORTION OF THE WORK.
10. ALL PENETRATIONS THRU RATED WALLS SHALL BE FIRESTOPPED UNDER DIVISION 07 SPECIFICATION SECTION "FIRESTOPPING".
11. ALL DIMENSIONS TO BE VERIFIED DURING FIELD CHECK OF SPRINKLER SYSTEM.
12. SPRINKLER SYSTEMS, INCLUDING ALL ASSOCIATED FIRE PROTECTION SIGNALS, SHALL BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY, AUXILIARY, OR REMOTE STATION SYSTEM IN ACCORDANCE WITH NFPA.
13. FIRE PROTECTION SHOP DRAWINGS, HYDRAULIC CALCULATIONS, AND MATERIAL DATA SUBMITTALS ARE TO BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
14. CORROSION PROTECTION FOR ALL UNDERGROUND BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION-RETARDING MATERIAL AFTER INSTALLATION IN ACCORDANCE WITH NFPA 13, 2016 EDITION.
15. THE UNDERGROUND MAIN STARTING AT THE PUBLIC WATER UTILITY POINT OF CONNECTION HAS BEEN DESIGNED TO NFPA 24, 2016 EDITION. INSTALLATION AND TESTING MUST BE IN ACCORDANCE WITH NFPA 24, 2016 EDITION.
16. ALL FIRE SPRINKLER COMPONENTS ARE TO BE RATED FOR THE MAXIMUM SYSTEM WORKING PRESSURE TO WHICH THEY ARE EXPOSED IN ACCORDANCE WITH NFPA 13, 2016 EDITION.
17. THE COMPONENTS OF THE FIRE PROTECTION SYSTEM(S) FURNISHED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE THEREOF, EITHER FOR BENEFICIAL USE OR FINAL ACCEPTANCE, WHICHEVER IS EARLIER, AGAINST DEFECTIVE MATERIALS, DESIGN, AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE ARCHITECT OF FAILURE OF ANY PART OF THE EQUIPMENT DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR PARTS SHALL BE REPLACED PROMPTLY WHICH INCLUDES REMOVING THE DEFECTIVE PART OR PARTS, REPLACING AND INSTALLING THE NEW PART OR PARTS AND AT THE EXPENSE OF THE CONTRACTOR.
18. OPERATING AND MAINTENANCE INSTRUCTIONS, PRINTED AND BOUND IN HARD COVER THREE-RING LOOSE LEAF NOTEBOOKS, SHALL BE PROVIDED TO THE OWNER.
19. CONTRACTOR SHALL PROVIDE FIRE SUPPRESSION SYSTEM IN CONFORMANCE WITH THE FOLLOWING CODES AND STANDARDS:
NFPA 13, 2016 EDITION
NFPA 24, 2016 EDITION
NFPA 25, 2017 EDITION
FLORIDA BUILDING CODE, 2020
FLORIDA FIRE PREVENTION CODE, 2020
FLORIDA ADMINISTRATIVE CODE 61G15-32.003 AND 61514-32.004
20. ALL SYSTEM MAIN DRAINS SHALL DISCHARGE AS SHOWN ON THE PLANS. FIRE PROTECTION CONTRACTOR SHALL COORDINATE LOCATION WITH THE PLUMBING CONTRACTOR.
21. PIPE ROUTING SHOWN IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.
22. PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE.
23. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
24. PROVIDE SPRINKLERS UNDER ALL EXPOSED DUCTWORK OVER 48" WIDE AND SPACE HEADS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. HEADS UNDER DUCTS ARE NOT INDICATED ON THE DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13. SPRINKLER LOCATIONS UNDER DUCTWORK AND AROUND OBSTRUCTIONS SHALL BE GOVERNED BY FINAL INSTALLED LOCATIONS.
25. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL SHALL BE REROUTED AT NO ADDITIONAL COST.
26. SPRINKLER HEADS IN ELEVATOR SHAFTS AND EQUIPMENT ROOMS ARE TO BE 286°F HEADS.
27. DEPTH OF COVER FOR UNDERGROUND PIPING SHALL BE NOT LESS THAN 30 INCHES.

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www.avconinc.com

TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

ENGINEER OF RECORD:
NAME:
FL. LICENSE NO.:

NO.	DATE	REVISIONS:	BY

FIRE PROTECTION GENERAL INFORMATION

RELEASE FOR BID

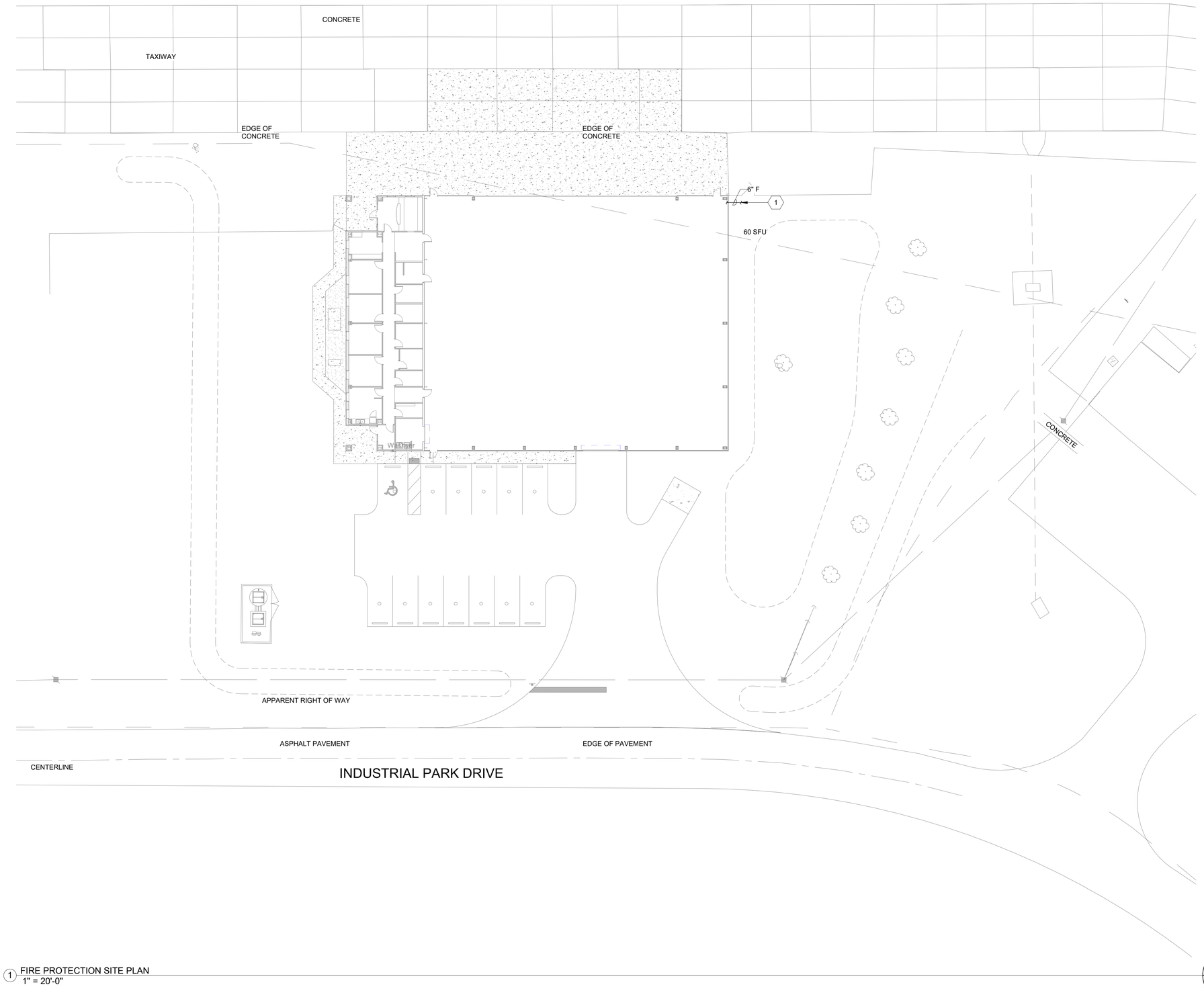
MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	JC
DRAWN BY:	JC
CHECKED BY:	ZP
APPROVED BY:	ZP
PROJECT NO.	2022.0260.03
DATE:	JANUARY 2024

SHEET
F001



1 FIRE PROTECTION SITE PLAN
1" = 20'-0"

FIRE PROTECTION GENERAL NOTES

1.	SPRINKLER HEADS IN EXPOSED SPACES SHALL BE UPRIGHT SPRINKLERS WITH HEAD GUARDS.
2.	PROVIDE AUXILIARY DRAINS FOR ALL TRAPPED SECTIONS OF PIPING IN ACCORDANCE WITH NFPA 13.

FIRE PROTECTION KEY NOTES

1	6" FIRE MAIN SUPPLY, REFERENCE CIVIL PLANS FOR CONTINUATION.

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FIRE PROTECTION SITE PLAN

RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

DESIGNED BY:	JC
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SHEET
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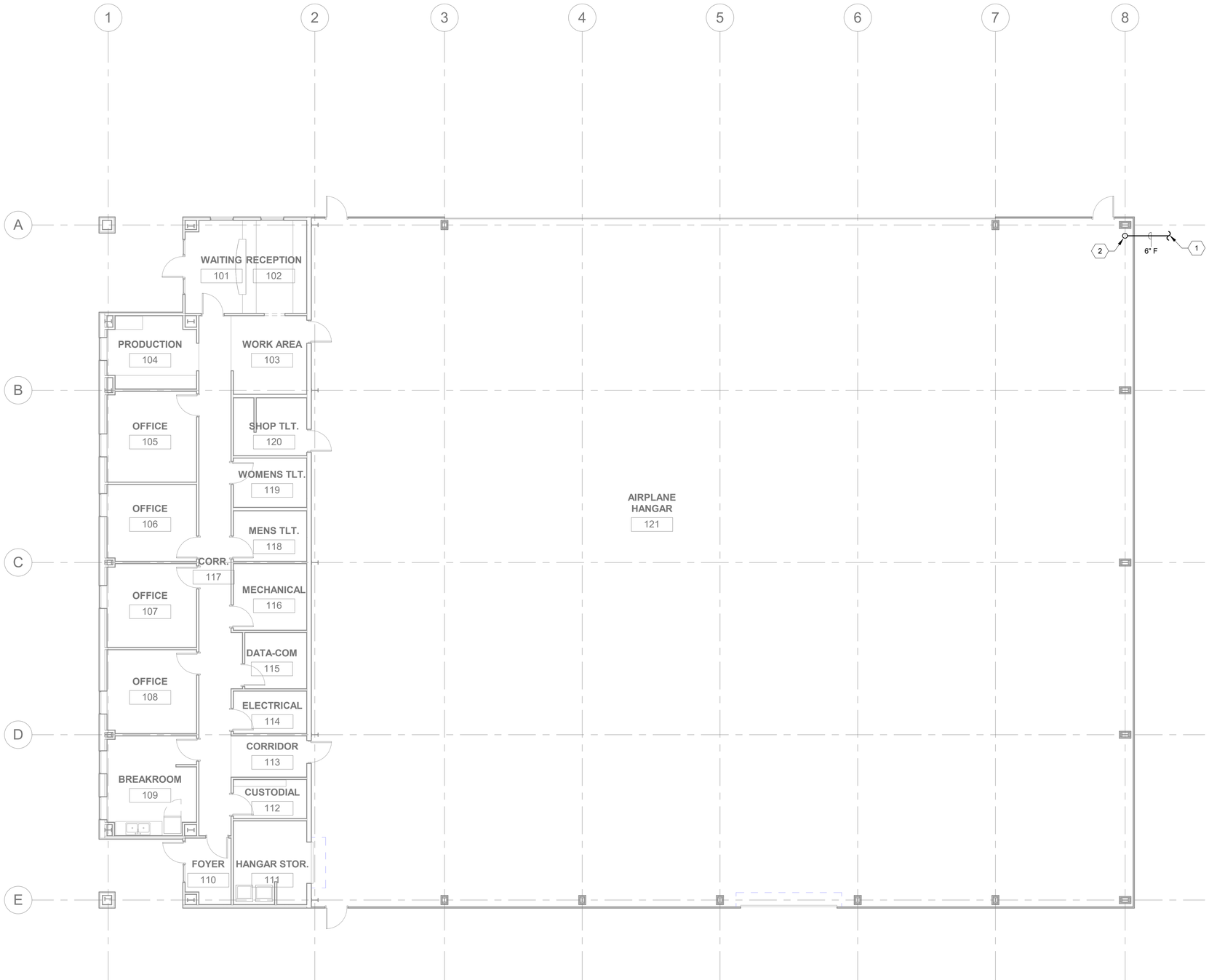


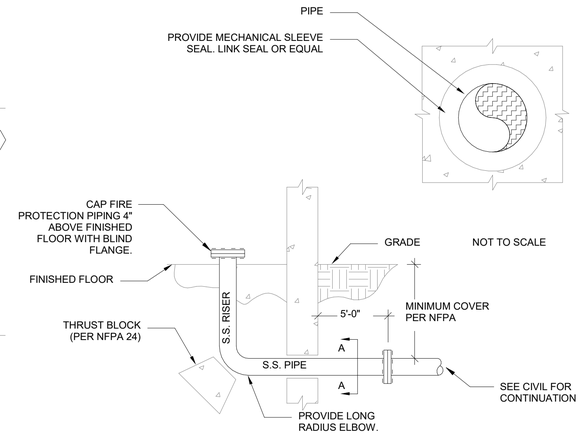
1 FIRE PROTECTION 1ST FLOOR PLAN
1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES

1.	SPRINKLER HEADS IN EXPOSED SPACES SHALL BE UPRIGHT SPRINKLERS WITH HEAD GUARDS.
2.	PROVIDE AUXILIARY DRAINS FOR ALL TRAPPED SECTIONS OF PIPING IN ACCORDANCE WITH NFPA 13.

FIRE PROTECTION KEY NOTES

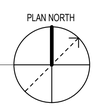
1	6" FIRE MAIN SUPPLY, REFERENCE CIVIL PLANS FOR CONTINUATION.
2	FIRE MAIN ENTRANCE TO BUILDING, REFERENCE DETAIL 02/F101. CAP FIRE PROTECTION PIPING 4 INCHES ABOVE FINISHED FLOOR WITH BLIND FLANGE.



NOTES :

1. U.G. PIPING BY SITE CONTRACTOR TO EXTEND 1'-0" ABOVE FINISHED FLOOR IN BUILDING AT LOCATION SHOWN ON FLOOR PLAN.
2. PROTECTION OF PIPING INCLUDING ARCHING OF FOUNDATION WALL AND DEPTH OF COVER SHALL BE IN ACCORDANCE WITH NFPA-24.
3. PROVIDE TAMPER SWITCHES AT BACKFLOW PREVENTER SERVING FIRE PROTECTION SYSTEM.
4. PROVIDE STAINLESS STEEL TRANSITION RISER (EQUAL TO WATTS TR SERIES). PLASTIC PIPE IS NOT PERMITTED BELOW OR WITHIN 5'-0" OF BUILDING.
5. PROVIDE DI-ELECTRIC FLANGE SET AT TRANSITION TO SYSTEM RISER PIPING MATERIAL.
6. PROVIDE CORROSION PROTECTION PER MANUFACTURER'S RECOMMENDATIONS FOR CORROSIVE SOIL INSTALLATIONS.

2 FIRE RISER FOUNDATION PENETRATION DETAIL
NOT TO SCALE



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FIRE PROTECTION 1ST FLOOR PLAN

RELEASE FOR BID

MARIANNA HANGAR DEVELOPMENT

PREPARED FOR

CITY OF MARIANNA

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SHEET
F101