## ABBREVIATIONS

A.B. anchor bolt A.F.F. above finished floor ACOUST. acoustical ACT. acoustical ceiling tild A/C air conditioning ALT. alternate ALUM. aluminum APPROX. approximate ARCH. architect(ural) ASPH. asphalt BIT. bituminous BLK. block BRK. brick BLKG. blocking BOT.(T.) bottom BLDG. building BD. board CLG. ceiling CER. ceramic C.H. ceiling heigh CIR. circle CLR. clear(ance) CMU concrete masonry un COL. column COMP. composite(tion CONC. concrete CONSTR. construction CONT. continuous C.J. control joint C.O. clean out CORR. corridor/corrugate DTL. detail DIAG. diagonal DIAM. diameter DISP. dispense DIV. division DN. down D.S. downspout D.F. drinking fountai DWGS. drawings EA. each E.F. exhaust fan ELEC. electric(al) E.W.C. electric water c ELEV. elevation EMERG. emergence EQ. equal FXH. exhau EXIST. existing EXP. expansio EXP. JT. expansion join EXT. exterior FIN. finish F.F. finished floc F.F.E. finished floor elevation F.E.C fire extinguisher cabine FL. floor F.D. floor drain

FLUOR. fluorescen FTG. footing FURR. furring GA. gauge GALV. galvanized G.C. general contracto G.B. grab bar GYP. gypsum H.C. hollow core HDW. hardware HVAC heating/ ventilating air conditionin HT. height H.M. hollow metal HORZ. horizontal H.B. hose bibb HR. hour H.W.H. hot water heate INCL. included I.D. inside diameter INSUL. insulate(d)/(ion INT. interior INTER. intermediate INV. invert JT. joint LBL. label LAB. laboratory LAM. laminated LAV. lavatory L.H. left hand LT. light L. length LOUV. louver M.H. manhole MFR. manufacture MAT. materials MAX. maximum MECH. mechanica MED. medium MBR. member MEMB. membrane MET. metal MTL. metal MIN. minimum MIR. mirror MISC. miscellaneous M.O. masonry opening MTD. mounted N.R.C. noise reduction coe N.I.C. not in contract NO. number NOM. nominal 0.C. on center(s) OPNG. opening OPP. opposite 0.H. opposite hand 0.D. outside diamete 0.H. overhead

PNL. panel PVMT. pavement PERF. perforated PLAS. plastic PL. plate PLumb. plumbing PLWD. plywood PTD. painted P.T. pressure treated P.V.C. polyvinyl chloride P.S.F. pounds per square foot P.S.I. pounds per square inch P.L. property line R. radius RE. reference REG. regular REINF. reinforced(ing) R.C.P. reinforced concrete pipe RESIL. resilient R.A. return air R.H. right hand R.O.W. right of way RD. roof drain RL. rain leader R.O. rough opening SCHED.schedule SECT. section STHG. sheathing SHT. sheet SIM. similar S.C. solid core S.C.W. solid core wood SPEC. specification(s) SQ. square STAIN.STL.stainless steel STD. standard STL. steel STOR. storage STRUCT. structural SUSP. suspended TEL. telephone THK. thick(ness) TG tempered glass T&G tongue and groov T.O.C. top of concrete T.O.J. top of joist T.O.R. top of roof TYP. typical U.N.O. unless noted otherwise V.T.R. vent through roof V.T.S. vinyl transition strip VERT. vertical V.C.T. vinyl composition tile W.C. water closet W.R. water resistant W.W.F. welded wire fabric W/ with

# **GRAPHIC SYMBOLS**

CONCRETE

GYPSUM BOARD

PLYWOOD

WOOD- ROUGH

WOOD- FINISH

BRICK

CONCRETE MASONRY UNITS

METAL



(2) KITCHEN EQUIPMENT

ENLARGED DETAIL 🗝 detail key # A1X

\_\_\_\_ Sheet #



**FXIT** 

# PRODUCT APPROVAL LIST

MANUFACTURER**	MODEL #	CATEGORY	SUBCATEGORY	APPROV
Coral Architectural Products	FL550	Panel Walls	Storefront	FL10467.2
EFCO Corporation	321G	Windows	Casement	FL17320
Schlage Lock Company, LLC	Steelcraft H series	Exterior Doors	Swinging Exterior Doors	FL3905.1
W.R. Grace	Ice and Water Shield	Roofing	Underlayment	FL298.1
Berridge	Standing Seam-Roof Panel	Roofing	Metal Roofing	FL11159.2

\*\* CONTRACTOR TO SUBMIT MANUFACTURER'S BASED ON SPECIFICATIONS AND PRODUCT APPROVAL NUMBERS IF DIFFERENT THAN THOSE SHOWN



## VALIDATION ENTITY /AL # Shawn G. Collins, PE Robert J. Amoruso Eric C. VanHorn, P.E. PRO Ashpalt Technologies James Buckner, P.E.

# Addition to Pace Fire Station #4 Pace Fire Rescue District



CODE SUMMARY
Florida Building Code 8th Edition (2023)

FIORIDA Building Lode Str Edition (2025) Florida Fire Prevention Code 6th Edition

Risk IV Category 163 mph wind speed

Allowable Area: FBC-Table 506.2

Fire Station with Residential and Storage Occupancies Actual Allowed Number of Stories rpe VB - Sprinklered\* 28,000 sf (w area increase) 5,379 s.f.
\* sprinklers required per NFPA 13.3.2.3 Type VB - Sprinklered\*

R2 Residential Occupancy (Sleeping quarters) S2 Storage Occupancy (Truck bays)

Occupant Load: FBC-Table 100	4.5			
Residential Occupancy	2800 s.f. @ 120 sf/person = 23			
Storage Area	2500 s.f. @ 200 sf/person =	12		
	Total Occupant Load	3		
Egress Requirements:	Required Actu	al		
Maximum travel distance (FBC—Table 1017.2)	200 ft. 56 ft	t.		
Level egress width — 0.2 per occupant (FBC—Table 1005.3.2)	29.8" or 32" 36" (min. @ doors)			
Minimum clear opening @ doors (FBC—Section 1010.1.1)	32" 36"			
<b>Exit Requirements:</b> (FBC—Table 1006.3.2)	Required Actu	al		
Residential (Sleeping quarters) Storage (Truck bays)	2 2 2 2			
Fire-Resistance Rating	Dequired Astu	~1		
Bearing + Nonbearing Walls, Floor, and F Mixed Occupancy Separation (Table 508.4	Required Actual Roof 0 0 4) 1 1	u		
<b>Plumbing Fixtures</b> (FPC-TABLE 403.1)	Required Actu	al		
Water Closets — Male and Female (1 per Lavatories (1 per 10) Drinking Fountains (1 per 100)	- 10) 1 1 1 1 1 1 du	al		

	SEQ.	SHEET #	DESCRIPTION	
	1		Title Sheet	0
	Civil			Pa
-		<u> </u>		Pac
	2	C0	Site Map	
	3 1	GUUI	General Notes Existing Site Conditions	
	4	C000 C100	Site Demolition & Frosion Control	A
	6	C200	Site Improvement & Dimensioning Plan	Qu
	° 7	C300	Site Grading & Drainage Plan	Per
	8	C400	Site Utility Plan	
	9	C900	Erosion Control Details	
	10	C910	Site Details	Μ
	11	C920	Utility Details	Н
	12	C930	Stormwater Details	Per
-	Architect	tural		
	13	D1.1	Demo Floor Plan & Elevations	
	14	A1.1	Floor Plan & Reflected Ceiling Plan	E
	15	A2.1	Elevations	H.
	16	A2.2	Building Sections	Per
	17	A3.1	Wall Sections	
	18	A3.2	Wall Sections	
	19	A3.3	Rooi Plan	S
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	22	A5 1	Finishes Floor Plan	Per
	Structure	1		
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	24	SU.1	General Notes	M
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	28	S1.2 S2.0	Elevations	
	29	S3.0	Wall Sections	
	30	<b>\$3.1</b>	Wall Sections	
	31	S4.0	Details	
	32	S5.0	Details	
	33	\$5.1 \$5.2	Details	Draigat
	34	<b>3</b> 3.2	Details	Project
-	Fire Prot	ection		
	35	FP1.1	Fire Protection Floor Plan	
-	Plumbing	g		Pac
	36	P1.1	Sanitary Waste Plan, Schedules, & Details	Pace Fire F
	37	<b>P2.1</b>	Domestic Water Plan	Pace Flori
-	Mechani	cal		1 400, 1 1011
	38	M1.1	HVAC Plan	Project No
	39	M2.1	Details & Schedule	1222
	Electrica	1		1223
-	40	E0.0	General Notes, Schedules and Legend	Set No.
	41	E0.1	Site Plan	
	42	E1.1	Lighting Plan & Power Plan	Date:
	43	E1.2	System Floor Plan	

Pace, Florida

# LIST OF DRAWINGS

# PERSONNEL

**OWNER:** Pace Fire Rescue District Pace, Florida

**ARCHITECT:** Quina Grundhoefer Architects, P.A. Pensacola, Florida

MECHANICAL ENGINEER: H.M. Yonge & Associates, Inc. Pensacola, Florida

ELECTRICAL ENGINEER: H.M. Yonge & Associates, Inc. Pensacola, Florida

STRUCTURAL ENGINEER: Joe DeReuil Associates, LLC Pensacola, Florida

**CIVIL ENGINEER:** McKim Creed Engineering Pensacola, Florida

## ldition to ce Fire Station #4 re Rescue District

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4/30/24



# PACE FIRE STATION #4 ADDITION PROJECT NO. 07615-0017

# 2024-04-30

# BID SET

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2024

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## Sheet List Table

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GENERAL						
G-000		COVE	R SHEET			
G-001		GENE	RAL NOTES			
CIVII						
<u> </u>		EVICT				
0.100		DEMO				
C-100		DEMC	DLITION & EROS	SION CONTR	ROL	
C-200		SITE I	MPROVEMENT	S		
C-300		GRAD	ING & DRAINAC	θE		
C-400		UTILIT	TIES			
C-500		LAND	SCAPING PLAN			
DETAILS						
C-900		FROS				
0.010						
<u>C-910</u>		SILE		N DETAILS		
C-920		UTILI	TY DETAILS			
C-930		STOR	M WATER DET	AILS		
SITE DATA TABLE						
PROPERY REF. NO.: PARCEL AREA: STREET ADDRESS:	07-2N-29-00 1.01 AC 6926 CHUMI MILTON, FL	00-0010 UCKLA 32571	04-0000 HWY			
ZONING: CURRENT USE: FUTURE LAND USE: PROPOSED USE:	AG-RR WAREHOUS WAREHOUS VOLUNTEEF	SE-STO SE-STO R FIRE	RAGE RAGE STATION			
BUILDING SETBACKS	<u>(LDC C</u> H. 2, S	<u>SEC</u> . 2.0	<u>)5.01. T</u> ABLE 2.	<u>05.01</u> .a)		
FRONT:	50'			<u>/</u>		
REAR:	25' 15'					
LANDSCAPE BUFFERS FRONT: REAR: NORTH:	<u>S (LDC CH. 4, 5</u> NONE NONE 35' TYPE C	<u>SEC. 4.</u>	07.04.c.iv & F T	ABLE)		
LOT COVERAGE - CON	ITRIBUTING A	REA				
	EVIOTI					
COVERAGE TYPE	EXISTIN	NG	EXISTING (%)	PROP	OSED	PROPOSED
COVERAGE TYPE	AC	NG SF	EXISTING (%)	AC	OSED SF	PROPOSED (%)
POND AREA	AC 0.066 2	NG SF 2,880	EXISTING (%) 13.39%	<b>PROP</b> AC 0.114	OSED SF 4,969	<b>PROPOSED</b> (%) 16.22%
POND AREA BUILDING AREA	AC 0.066 2 0.058 2	SF 2,880 2,525	EXISTING (%) 13.39% 11.76%	AC 0.114 0.122	OSED SF 4,969 5,325	<b>PROPOSED</b> (%) 16.22% 17.35%
POND AREA BUILDING AREA OTHER IMPERVIOUS	AC 0.066 2 0.058 2 0.095 4	SF 2,880 2,525 4,131	EXISTING (%) 13.39% 11.76% 19.27%	PROP AC 0.114 0.122 0.126	OSED SF 4,969 5,325 5,461	<b>PROPOSED</b> (%) 16.22% 17.35% 17.92%
COVERAGE TYPE POND AREA BUILDING AREA OTHER IMPERVIOUS PERVIOUS	AC 0.066 2 0.058 2 0.095 4 0.274 1	SF 2,880 2,525 4,131 1.932	EXISTING (%) 13.39% 11.76% 19.27% 55.58%	AC 0.114 0.122 0.126 0.341	OSED SF 4,969 5,325 5,461 14.850	PROPOSED (%) 16.22% 17.35% 17.92% 48.51%
COVERAGE TYPE POND AREA BUILDING AREA OTHER IMPERVIOUS PERVIOUS	AC 0.066 2 0.058 2 0.095 4 0.274 1 0.493 2	SF 2,880 2,525 4,131 1,932 21,468	EXISTING (%) 13.39% 11.76% 19.27% 55.58% 100.00%	PROP AC 0.114 0.122 0.126 0.341 0.703	OSED SF 4,969 5,325 5,461 14,850 30.605	PROPOSED (%) 16.22% 17.35% 17.92% 48.51% 100.00%
COVERAGE TYPE POND AREA BUILDING AREA OTHER IMPERVIOUS PERVIOUS OVERALL FLOOD ZONE: THE ZON MAP	AC 0.066 2 0.058 2 0.095 4 0.274 1 0.493 2 PARCELS SH E(S) AS DETA ) INFORMATIO	SF 2,880 2,525 4,131 1,932 1,468 IOWN A NILED B ON DES	EXISTING (%) 13.39% 11.76% 19.27% 55.58% 100.00% RE LOCATED Y FEMA FORM SCRIBED BELO	PROP           AC           0.114           0.122           0.126           0.341           0.703           WITHIN TH           (FLOOD IN W:	OSED SF 4,969 5,325 5,461 14,850 30,605 E FOLLOW ISURANCE	PROPOSED (%) 16.22% 17.35% 17.92% 48.51% 100.00% ING FLOOD RATE
COVERAGE TYPE POND AREA BUILDING AREA OTHER IMPERVIOUS PERVIOUS OVERALL FLOOD ZONE: THE ZON MAP	AC 0.066 2 0.058 2 0.095 4 0.274 1 0.493 2 PARCELS SH E(S) AS DETA ) INFORMATION NFIP COMMUNITY NUMBER*	SF 2,880 2,525 4,131 1,932 1,468 NILED B ON DES MAP N	EXISTING (%) 13.39% 11.76% 19.27% 55.58% 100.00% RE LOCATED Y FEMA FORM SCRIBED BELO	PROP           AC           0.114           0.122           0.126           0.341           0.703           WITHIN TH           (FLOOD IN           W:	OSED SF 4,969 5,325 5,461 14,850 30,605 E FOLLOW ISURANCE MAP SUFFIX*	PROPOSED (%)           16.22%           17.35%           17.92%           48.51%           100.00%           ING FLOOD RATE
COVERAGE TYPE POND AREA BUILDING AREA OTHER IMPERVIOUS PERVIOUS OVERALL FLOOD ZONE: THE ZON MAP FLOOD ZONE(S) (	AC 0.066 0.058 0.095 0.274 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.100 0.493 0.000 0.274 10.493 0.000 0.274 10.493 0.000 0.274 10.493 0.000 0.274 10.000 0.000 0.274 10.000 0.000 0.274 10.000 0.000 0.000 0.274 10.000 0.0000 0.0000 0.0000 0.0000 0.000 0.000 0.000 0.000 0.000 0.	SF 2,880 2,525 4,131 1,932 1,468 IOWN A NILED B ON DES MAP 1	EXISTING (%) 13.39% 11.76% 19.27% 55.58% 100.00% RE LOCATED Y FEMA FORM SCRIBED BELO NUMBER* P NUMBER* NUM	PROP           AC           0.114           0.122           0.126           0.341           0.703           WITHIN TH (FLOOD IN W:           ANEL //BER(S)           0285	OSED SF 4,969 5,325 5,461 14,850 30,605 E FOLLOW ISURANCE MAP SUFFIX* H	PROPOSED         (%)         16.22%         17.35%         17.92%         48.51%         100.00%         ING FLOOD         RATE         MAP REVISION         DATE         11/19/2021
COVERAGE TYPE POND AREA BUILDING AREA OTHER IMPERVIOUS PERVIOUS OVERALL FLOOD ZONE: THE ZON MAP FLOOD ZONE(S) (	AC 0.066 2 0.058 2 0.095 4 0.274 1 0.493 2 PARCELS SH E(S) AS DETA ) INFORMATION NFIP COMMUNITY NUMBER* 120274	NG SF 2,880 2,525 4,131 1,932 21,468 NOWN A NILED B ON DES MAP N 12	EXISTING (%) 13.39% 11.76% 19.27% 55.58% 100.00% RE LOCATED Y FEMA FORM SCRIBED BELO NUMBER* P NUM 2113C	PROP           AC           0.114           0.122           0.126           0.341           0.703           WITHIN TH (FLOOD IN W:           ANEL //BER(S)           0285	OSED SF 4,969 5,325 5,461 14,850 30,605 E FOLLOW ISURANCE MAP SUFFIX* H	PROPOSED (%) 16.22% 17.35% 17.92% 48.51% 100.00% ING FLOOD RATE MAP REVISION DATE 11/19/2021

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GE	NERAL NOTES	GENERAL NOTES FOR EROSION AND SEDIMENT CONTROL (CONT'D
1.	NO DEVIATIONS FROM THE PROJECT PLANS OR SPECIFICATIONS ARE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD AND THE ARCHITECT.	SITE GRADING
2.	IN CASE OF A DISCREPANCY ON THESE DRAWINGS, BETWEEN THESE DRAWINGS AND THE DRAWINGS OF OTHER DISCIPLINES, OR BETWEEN THESE DRAWINGS AND CONDITIONS IN THE FIELD. THE MORE STRINGENT REQUIREMENT MUST BE MET. REPORT ANY	1. THE SITE MUST, AT ALL TIMES, BE GRADED AND MAINTAINED SUCH AND SEDIMENT CONTROL MEASURES.
3.	DISCREPANCY TO ENGINEER PRIOR TO ACTION. LOCATIONS AND ELEVATIONS OF UTILITIES SHOWN ON PLANS ARE TO BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR	2. ALL AREAS USED FOR MATERIAL STOCKPILE, BE IT FILL/EXCAVATI AND MUST HAVE SILT FENCE INSTALLED PER THE DETAILS PROV THEIR ENTIRE DOWNGRADE PERIMETER.
	LOCATE, IDENTIFY AND PROTECT EXISTING UNDERGROUND UTILITIES IN THE AREA OF WORK. ANY UTILITIES SPOTTED MUST BE DRAWN ON THE SITE PLAN PROVIDED BY THE ARCHITECT/ENGINEER AND SUBMITTED AS PART OF THE AS-BUILT DRAWINGS. COST OF GPR LOCATES MUST BE INCLUDED IN THE CONTRACTOR'S BASE BID. NOTIFY UTILITY AND ARCHITECT/ENGINEER OF CONFLICTS BETWEEN EXISTING AND PROPOSED FACILITIES.	3. PRIOR TO PROCEEDING WITH CONSTRUCTION, ALL TOPSOIL AND ANY OTHER DELETERIOUS NON-SOIL MATERIALS FOUND TO E CONSTRUCTION AREAS. CLEAN TOPSOIL SHALL BE STOCKPILE DEBRIS-LADEN MATERIALS SHOULD BE EXCAVATED, TRANSPOR
4.	DAMAGE TO EXISTING SIDEWALKS, ASPHALT OR OTHER IMPROVEMENTS OUTSIDE THE PRIMARY PROJECT LIMITS DURING DEMOLITION WILL REQUIRE REPAIR AND/OR REPLACEMENT BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.	APPROPRIATE SOLID WASTE RULES AND REGULATIONS.
5.	THE CONTRACTOR MUST COMPLY WITH ALL FEDERAL AND STATE REGULATIONS CONCERNING NOTIFICATION TO THE	1. PERMANENT SOD MUST BE INSTALLED ON ALL EXPOSED AREAS WIT
6.	THE CONTRACTOR MUST PROVIDE THE ENGINEER WITH REDLINED DRAWINGS FOR THE ENGINEER'S USE IN PREPARING AS-BUILT	2. UPON COMPLETION OF DEMOLITION, BUT PRIOR TO FINAL ACCEPTA FROM THE SITE AND ALL PAVED ROADWAYS AND/OR PARKING AREA
	CERTIFICATIONS AND AS-BUILT RECORD DRAWINGS FOR THE OWNER. AS-BUILT INFORMATION WILL INCLUDE BUT NOT BE LIMITED TO: ROUTING OF ALL EXISTING AND PROPOSED UNDERGROUND UTILITIES WITH DISTANCES TO/LOCATIONS OF LINES, BENDS, FITTINGS, STRUCTURES, AND OTHER APPURTENANCES MEASURED FROM AT LEAST TWO FIXED POINTS; TOP, BOTTOM, AND PIPE INVERT ELEVATIONS OF ALL STORM WATER AND SANITARY SEWER STRUCTURES, INCLUDING CLEANOUTS, RELATIVE TO FINISHED ELOOR: REVISIONS TO SITE LAYOUT DEPICTED IN THE PLANS.	3. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST ALL UP-GRADE AREAS HAVE BEEN PERMANENTLY STABILIZED.
7.	A SEPARATE PERMIT IS REQUIRED FOR ALL BUSINESS SIGNAGE.	DEMOLITION NOTES
8.	THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A UTILITY PERMIT FROM THE COUNTY ROAD AND BRIDGE DEPARTMENT PRIOR TO COMMENCING ANY WORK IN THE COUNTY'S RIGHT OF WAY.	FURNISH A COPY OF SAME TO THE ENGINEER PRIOR TO COMMENC REQUIREMENTS OF THE PERMITS.
9.	DRIVEWAY CUTS ARE TO BE REVIEWED ON AN INDIVIDUAL BASIS BY THE ROAD AND BRIDGE DEPARTMENT.	2. NO WORK WITHIN THE RIGHT-OF-WAY IS AUTHORIZED UNTIL A RIGH
10.	CONTRACTOR MUST OBTAIN ALL NECESSARY DEWATERING PERMITS PRIOR TO COMMENCING ANY SUCH ACTIVITIES, AND IS	3. DEMOLITION AREAS SHOWN ON THIS PLAN ARE NOT PHASED, BUT S
		<ol> <li>THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR TELEPHONE, OR SEWER SERVICE SO THEY CAN REMOVE, RELOCAT FACILITATE DEMOLITION.</li> </ol>
<u>GE</u> 1.	CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION (PRIOR TO CONSTRUCTION) AND MAINTENANCE/REPAIRS (DURING	5. CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROV
	CONSTRUCTION) OF EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENT AND EROSION ON THE SITE OF DEVELOPMENT. THE PROVISIONS SHOWN HEREIN REPRESENT POTENTIAL EROSION CONTROL MEASURES TO BE TAKEN.	IMPROVEMENTS NOT SHOWN. CONTRACTOR SHALL ASSUME IMPROVEMENTS DAMAGED DURING CONSTRUCTION AND SHALL MA TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC I EXISTING UTILITIES AS REQUIRED FOR INSTALLATION OF ALL F
2.	THE CONTRACTOR IS TO DETERMINE AND PREPARE A FINAL EROSION CONTROL PLAN UTILIZING WHAT BMPs THEY DEEM NECESSARY TO ENSURE ALL SEDIMENT REMAINS ON-SITE.	PROTECTING, SUPPORTING, REPAIRING, AND OTHER ACTIVITIES R THE CONTRACTORS RESPONSIBILITY AT NO ADDITIONAL COST TO T
3.	AT THE TIME OF SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT PERMANENT COVER MUST BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITION AND RENDER IT SUITABLE FOR PERMANENT COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL BE EMPLOYED (LE EROSION CONTROL FABRIC RIP.RAP. ETC.)	<ol> <li>CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TRE OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN AC BARRICADE.</li> </ol>
4.	THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NPDES COVERAGE FOR THE PROPOSED CONSTRUCTION AREA, INCLUDING DEVELOPMENT OF THE NOTICE OF INTENT, STORM WATER POLLUTION PROTECTION PLAN DOCUMENTS, AND PERMIT APPLICATION	7. CONTRACTOR SHALL CLEAR AND GRUB THE SITE AS NECESSARY MARKED FOR REMOVAL WHICH INCLUDES THE ROOTS ASSOCIATED
5.	THE CONTRACTOR MUST MAKE REGULAR INSPECTIONS OF ALL CONTROL MEASURES THROUGHOUT THE CONSTRUCTION	REPLACED WITH CLEAN SAND PRIOR TO GRADING THE SITE.
•	PROCESS TO ENSURE THE OVERALL EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL PLAN. AT A MINIMUM, INSPECTIONS WILL OCCUR AT LEAST ONCE A WEEK AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM EVENT THAT IS ONE-HALF (0.50) INCH OR GREATER. ALL INSPECTIONS WILL BE DOCUMENTED.	<ol> <li>CONTRACTOR SHALL TAKE PROPER MEASURES TO ENSURE EXCA PROTECTED AGAINST EROSION AND SEDIMENTATION. CONTRAC WASTE FROM THE SITE IN A TIMELY MANNER AND DISPOSE OF IN REGULATIONS.</li> </ol>
6.	IN THE EVENT THAT AN ON-SITE INSPECTION BY ANY PARTY REVEALS A DEFICIENCY IN THE INSTALLATION AND/OR MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE IMMEDIATE REMEDIATION OF THE PROBLEM AT NO ADDITIONAL COST TO THE OWNER.	10. UNLESS OTHERWISE NOTED, ALL DEMOLISHED MATERIALS (PAVING OF OFF SITE. NOTHING IDENTIFIED FOR DEMOLITION SHALL BE ABAI
7.	NO CHANGE ORDERS WILL BE ACCEPTED PERTAINING TO REPAIR OR REMEDIATION OF THE EROSION CONTROL MEASURES OUTLINED IN BASE BID.	11. CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON REMOVAL. PRIOR TO CONNECTING PROPOSED PAVEMENT TO EXIS EDGE OF THE EXISTING PAVEMENT IS STRAIGHT AND UNIFORM.
8.	FAILURE TO COMPLY WITH THE REQUIRED EROSION AND SEDIMENT CONTROL GUIDELINES MAY RESULT IN FINES LEVIED BY GOVERNMENTAL AGENCIES. ANY FINES SUFFERED DUE TO NON-COMPLIANCE WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.	12. FULL DEPTH PAVEMENT SECTION REMOVAL INCLUDES ANY ASSO AND COMPACTED SUBGRADE TO A DEPTH TO REACH OF NATURAL S
	SEQUENCE OF EROSION AND SEDIMENT CONTROL MEASURES IMPLEMENTATION SITE PREPARATION	FARTHWORK GRADING AND STABILIZATION NOTES
1.	PRIOR TO ANY SOIL DISTURBANCE, SILT FENCE MUST BE INSTALLED ALONG ENTIRE DOWN-GRADE PERIMETER OF PLANNED DISTURBANCE AS SHOWN IN PLANS AND DETAILS, OR BY EQUIVALENT MEASURES. SILT FENCE MUST REMAIN IN PLACE UNTIL ALL	1. INFORMATION CONCERNING SITE SOIL CONDITIONS WILL BE PROVID
2	UP-GRADE AREAS OF DISTURBANCE HAVE BEEN PERMANENTLY STABILIZED.	2. ALL ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE SOD (SAME AS SURROUNDING AREA OR BETTER) OR APPROVED EQ
۷.	SITE. AT A MINIMUM, ACCESS MUST INCLUDE ROCK INSTALLED ON TOP OF ENGINEERING FABRIC AS DETAILED IN THE PLANS. IF THIS MINIMUM ACCEPTABLE MEASURE DOES NOT COMPLETELY PREVENT OFFSITE TRACKING OF SOILS FROM THE	3. ALL DEWATERING COSTS ASSOCIATED WITH THE PERMITTING, UNDERGROUND UTILITIES: STORM WATER PIPES AND MANHOLES:
	CONSTRUCTION SITE, CONTRACTOR MUST SUPPLEMENT ADDITIONAL MEASURES SUCH AS INCREASING THE LENGTH OF THE ROCK ACCESS, ADDING A MANUAL HOSE WASHDOWN STATION, OR OTHER SIMILAR MEASURES. COSTS OF ANY AND ALL MEASURES NECESSARY TO PREVENT OFFSITE TRACKING OF SOILS MUST BE INCLUDED IN THE CONTRACTOR'S BASE BID AND ANY	STATIONS; AND STORM WATER MANAGEMENT SYSTEMS SHALL BE CONTRACTOR SHALL SUBMIT FOR WATER USE PERMITS IF REQUIRE
	SUPPLEMENTAL MEASURES MUST BE PROVIDED AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR MUST ALSO INCLUDE IN THE BASE BID ALL COSTS ASSOCIATED WITH ONGOING MAINTENANCE AND REHAB OF ACCESS POINTS THROUGHOUT	4. UNLESS SHOWN OTHERWISE ON THE PLANS, CONTRACTOR SHALL PLANT GLASS SEED OR SOD, APPLY STRAW, AND WATER. IT IS
	CONSTRUCTION AND THE REMOVAL OF ACCESS AND STABILIZATION OF THE ACCESS POINTS AFTER CONSTRUCTION OPERATIONS HAVE CEASED. ANY SOILS THAT ARE TRACKED OR OTHERWISE CARRIED OFFSITE MUST BE IMMEDIATELY REMOVED FROM ROADS AND DRAINAGE SYSTEMS, AND ALL COSTS FOR SUCH CLEANUP ARE THE RESPONSIBILITY OF THE CONTRACTOR	HEALTHY STAND OF GRASS ON ALL SEEDED OR SODDED AREAS. I THE TIME THE BUILDING BECOMES OCCUPIED, THEN SOD SHALL BE
	CLEARING AND GRUBBING	5. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTR THE INSTALLATION OF TURBIDITY BARRIERS AND SILT FENCES AT
1.	ALL DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) DAYS AND ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC MUST RECEIVE A TEMPORARY SEEDING IMMEDIATELY UPON DISTURBANCE. IF THE SEASON PREVENTS ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREA WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE.	SUSPENDED SOLIDS OFF-SITE EXISTS DUE TO THE PROPOSED WO PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MAINTAI AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR AT NO TIME SHALL THERE BE ANY OFFSITE DISCHARGE WHICH VIO AND 62-4. FAC.
2.	ALL DISTURBED AREAS THAT ARE SUBJECT TO HIGH AMOUNTS OF EROSION (I.E. STEEP SLOPES, EMBANKMENTS GREATER THAN 3:1, OR OTHER AS DICTATED BY SITE CONDITIONS) MUST IMMEDIATELY RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH MULCHING WITH STRAW, OR EQUIVALENT MATERIAL, AT A THICKNESS OF TWO (2) TO FOUR (4) INCHES MIXED WITH THE TOP TWO	
3.	ALL DISTURBED AREAS MUST, AS A MINIMUM, BE MAINTAINED BY WATER TO MINIMIZE THE GENERATION OF DUST.	
_		
REV.	NO. DESCRIPTION DATE	

REVISIONS

THAT ALL STORM WATER RUNOFF IS CONTROLLED BY EROSION

ED MATERIALS, STONE, OR OTHERWISE, MUST BE STABILIZED, DED IN THE PLANS, OR BY EQUIVALENT MEASURES, AROUND

VEGETATION, TREES AND ASSOCIATED ROOT SYSTEMS, AND PRESENT SHOULD BE STRIPPED FROM THE PROPOSED D AND SUBSEQUENTLY RE-USED IN LANDSCAPED AREAS. RTED, AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH

HIN THREE (3) DAYS AFTER FINAL GRADING.

NCE, ALL DEMOLITION WASTE AND DEBRIS MUST BE REMOVED AS WILL BE SWEPT CLEAN OF ALL SEDIMENT.

REMAIN IN PLACE AND BE MAINTAINED UNTIL SUCH TIME WHEN

SES FOR PERFORMING THE DEMOLITION WORK AND SHALL CING THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE

I-OF-WAY PERMIT IS OBTAINED.

SHOWN IN THEIR ENTIRETY.

LOCAL AUTHORITIES FURNISHING GAS, WATER, ELECTRICAL E, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN ORDER TO

EMENTS SHOWN ON THESE PLANS AND UTILITIES AND OTHER RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER INTAIN SUFFICIENT PROTECTION FOR ALL UTILITIES REQUIRED URING CONSTRUCTION. CONTRACTOR SHALL ALSO SUPPORT ROPOSED IMPROVEMENTS. ALL COSTS ASSOCIATED WITH ESULTING FROM CONTRACTOR DAMAGING UTILITIES SHALL BE HE OWNER OR LOCAL UTILITY.

ES, STRUCTURES, AND UTILITIES NOT MARKED FOR REMOVAL DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER. CORDANCE WITH FDOT PLAN NO. 580-001 TREE PROTECTION

TO CONSTRUCT PROPOSED IMPROVEMENTS. REMOVE TREES WITH THE TREE.

MUST BE EXCAVATED AND REMOVED FROM THE SITE AND

VATED OR UNSALVAGEABLE MATERIAL STORED ON-SITE ARE FOR SHALL REMOVE UNSALVAGEABLE MATERIALS AND YARD ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL

, CURB, UTILITY PIPE, ETC.) SHALL BE REMOVED AND DISPOSED IDONED IN PLACE.

ANY PAVEMENT PROPOSED FOR DEMOLITION PRIOR TO ITS TING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT THE

CIATED ASPHALT OR CONCRETE PAVEMENT, BASE MATERIAL, SOIL

DED BY THE GEOTECH REPORT.

STABILIZED IN ACCORDANCE WITH LANDSCAPE PLANS OR WITH UAL.

INSTALLATION, MAINTENANCE, AND CONSTRUCTION OF THE SANITARY SEWER MAINS, FORCE MAINS, MANHOLES, AND LIFT INCLUDED AS PART OF THE CONSTRUCTION BID COSTS. THE ED FOR DEWATERING ACTIVITIES.

APPLY 4" OF TOP SOIL TO ALL DISTURBED AREAS OF THE SITE, THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A A HEALTHY STAND OF GRASS CAN NOT BE ESTABLISHED BY INSTALLED AND WATERED UNTIL GRASS IS ESTABLISHED.

OL TURBIDITY AND SEDIMENT INCLUDING, BUT NOT LIMITED TO, ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING RK. TURBIDITY AND SEDIMENT BARRIERS MUST BE INSTALLED NED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS. DLATES THE WATER QUALITY STANDARDS IN CHAPTERS 62-302

#### PAVING, GRADING, AND DRAINAGE NOTES

- STANDARDS.

- INDICATED. 9.

- ACCEPTANCE.
- REVIEW.

#### **GENERAL UTILITY NOTES**

- 2.

- 8.
- CONSTRUCTED.

MCKIN&CREED 1206 N. Palafox Street	PACE FIRE STATION #4 ADDITION	ISSUE DATE: MCE PROJ. # DRAWN DESIGNED	2024-04-30 07615-0017 C.FELDMEYER C.FELDMEYER	SCALE HORIZONTAL: AS SHOWN VERTICAL:	G-001
Pensacola, Florida 32501 Phone: (850) 994-9503	GENERAL	PROJ. MGR.	A.MAINIERO	AS SHOWN	REVISION
CA Lic. No. 29588 www.mckimcreed.com	GENERAL NOTES	STATUS:			BID SET

ALL CURBS (EXISTING OR NEW) SHALL BE PROTECTED FROM CONSTRUCTION DAMAGE. ALL CHIPPED OR CRACKED PORTIONS OF CURB SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. IN ADDITION, ANY MORTAR, CONCRETE, SOIL AND OTHER DEPOSITS OR STAINS SHALL BE CLEANED TO RETURN THE CURBS TO THEIR ORIGINAL CONDITION.

2. UPON COMPLETION OF FINAL ASPHALT PAVING, TOOL AND CLEAN ALL MANHOLE AND VALVE COVERS OF DIRT, DEBRIS AND ASPHALT. ALL MANHOLE AND VALVE COVERS SHALL BE CLEAN AND OPERABLE PRIOR TO OWNER'S ACCEPTANCE.

3. IN ADDITION TO THE REQUIREMENTS IN THE ENGINEER'S TECHNICAL SPECIFICATIONS, ALL ROADWAY CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE STATE OR LOCAL GOVERNMENT SPECIFICATIONS.

CONTRACTOR TO PROVIDE MOT PLAN FOR REVIEW AND APPROVAL TO THE APPLICABLE STATE OR LOCAL GOVERNMENT PRIOR TO WORK IN THE RIGHT-OF-WAY. CONTRACTOR SHALL EXECUTE AND IMPLEMENT THE MOT PLAN IN ACCORDANCE WITH FDOT

5. STABILIZED SUBGRADE TO BE FDOT TYPE "B".

ALL CONCRETE STRUCTURES, SUCH AS, BUT NOT LIMITED TO: FLUMES, WALKS, CURBS AND DRAINAGE STRUCTURES, SHALL BE TO FDOT STANDARD SPECIFICATIONS (LATEST EDITION).

COMPLETE CONSTRUCTION WITHOUT IMPACTING THE NORMAL OPERATION OF PEDESTRIAN AND VEHICULAR TRAFFIC.

8. THE EXISTING GRADES SHOWN ON THE DRAWINGS (IN PLAN OR IN SECTION) ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR GRADING, INCLUDING PLACEMENT OR REMOVAL OF FILL MATERIAL AS APPROPRIATE, TO PROVIDE PROPER RELATIONSHIP BETWEEN WALKS/RAMPS AND ADJACENT ROADWAYS, CURBS, LOTS, UTILITIES, AND OTHER APPURTENANCES, AS

CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY PROVIDER FOR THE ADJUSTMENT OF ANY EXISTING OR PROPOSED UTILITY BOXES OR COVERS SHOWN ON THE DRAWINGS.

10. CONTRACTOR SHALL MAINTAIN CLEAR, SAFE WALKWAYS AND WALKING DETOURS FOR NORMAL PEDESTRIAN AND GUEST TRAFFIC AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PEDESTRIAN AND GUEST MOT PLANS.

11. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS.

12. ON-SITE STORMWATER MANAGEMENT AND DRAINAGE SYSTEM WILL BE PRIVATELY OWNED AND MAINTAINED.

13. ALL PIPES SHALL HAVE 3-FEET MINIMUM COVER UNLESS OTHERWISE SPECIFIED IN PLANS, CONTRACTOR SHALL TAKE CARE TO PROVIDE PROPER GRADE ELEVATIONS AND ALIGNMENTS.

14. ALL STORM DRAINAGE INLETS AND PIPES SHALL BE PROTECTED FROM SILT. SAND AND DEBRIS DURING CONSTRUCTION. ANY ACCUMULATION WITHIN THE STORM DRAINAGE PIPE SYSTEM SHALL BE REMOVED WITHOUT PUMPING OR FLUSHING INTO THE PONDS. STORM DRAINAGE SYSTEM SHALL BE CLEANED AND FREE OF DEBRIS PRIOR TO CONSTRUCTION MANAGER'S

15. ALL DRAINAGE PIPE JOINTS TO BE WRAPPED WITH FILTER FABRIC CLOTH PER FDOT PLAN 430-001

16. ALL DRAINAGE STRUCTURES (EXISTING AND PROPOSED) SHALL REMAIN CLEAR OF SILT, SAND, AND DEBRIS. PRIOR TO FINAL CERTIFICATION BY THE EOR, THE CONTRACTOR SHALL SUBMIT INSPECTION OF THE STORMWATER CONVEYANCE SYSTEM FOR

ALL UTILITY WORK SHALL CONFORM TO AND SHALL BE INSTALLED. TESTED AND CLEARED FOR SERVICE IN ACCORDANCE WITH THE WORK SHALL ALSO CONFORM TO THE APPROVED PROJECT SPECIFICATIONS, LOCAL UTILITY SPECIFICATIONS, AND/OR FDEP PERMIT.

PROTECT THE UTILITY SYSTEMS AT ALL TIMES DURING CONSTRUCTION. SHOULD A SYSTEM BECOME DAMAGED, ALTERED OR EXTENDED AFTER THE INITIAL TESTING, THE AFFECTED PORTION OF THE SYSTEM SHALL BE RESTORED AS NECESSARY AND RETESTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

ALL POTABLE WATER MAINS MUST BEAR "NSF" "PW" LOGO.

UNDERGROUND FIRE LINES SHALL MEET NFPA 24 REQUIREMENTS.

ALL UNDERGROUND UTILITIES MUST BE INSTALLED, SURVEYED, AND AS-BUILTS APPROVED BEFORE THE ROADWAY BASE AND SURFACE ARE CONSTRUCTED.

6. ALL UNDERGROUND UTILITY PIPING SHALL HAVE A MINIMUM OF 3-FEET OF COVER UNLESS SHOWN OTHERWISE ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

ALL RIGHT-OF-WAY INSTALLATIONS WILL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE STATE OF FLORIDA UTILITIES ACCOMMODATION MANUAL.

CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR UTILITY LOCATE TICKETS, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE. CONTRACTOR IS TO COORDINATE FULLY WITH LOCAL UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE UTILITY COMPANIES LISTED IN THE TABLE BELOW SHALL BE CONTACTED BY THE CONTRACTOR AT LEAST 3 FULL WORK DAYS IN ADVANCE.

LOCATIONS OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER OR ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY. EXISTING UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED AS DIRECTED ON THE PLANS.

10. ALL UTILITY LINES ARE TO BE CAPPED TEMPORARILY AT THEIR OPEN ENDS UNTIL CONNECTIONS ARE

ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

12. A 48-HOUR NOTICE WILL BE GIVEN TO THE ENGINEER OF RECORD AND LOCAL UTILITY INSPECTORS PRIOR TO TESTING ANY UTILITY SHOWN ON THESE PLANS.

13. PROPOSED FIRE LINE PIPING FOR THE FIRE PROTECTION SYSTEM, INCLUDING BACKFLOW PREVENTER SHALL BE INSTALLED BY A CLASS I, II, OR V CONTRACTOR PER CHAPTER 633.102 F.S. THE UNDERGROUND FIRE RISER SHALL EXTEND TO 1- FOOT ABOVE FINISH FLOOR (AFF) OR FINISH GRADE.



LEG	END
	FOUND 1/2" DIA CAPPED IRON ROD (NO. 5170) FOUND 1/2" DIA CAPPED IRON ROD (NO. 345 SET BENCHMARK
(F)	FIELD
(PS)	PROVIDED SURVEY
—— 0 ——	CHAIN LINK FENCE
— – °00 – —	OVERHEAD UTILITIES
— – W – —	BURIED WATER LINE
SD - —	STORMWATER LINE
	SURVEY LIMITS
SWL	SOLID WHITE PAINT LINE
$\diamond$	WATER METER
$\bowtie$	WATER VALVE
, С	FIRE HYDRANT
GAS	GAS MARKER
Ŷ ſ \$	GAS VENT
C∽	GAS VALVE
$\leftarrow$	GUY WIRE ANCHOR
$\mathcal{Q}$	WOOD UTILITY POLE
+ 6.00	SPOT ELEVATION
100	ELEVATION CONTOUR LINE
AND	CREPE MYTRLE

GENERAL NOTES (MCKIM & CREED, PROJECT NUMBER 07615-0018:

1. NORTH AND THE SURVEY DATUM SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM (FLORIDA NORTH ZONE), NORTH AMERICAN DATUM OF 1983 (NAD83)-(2011)-(EPOCH 2010.0000) AND EXISTING FIELD MONUMENTATION.

2. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE BASED ON GPS OBSERVATIONS.

 BOUNDARY INFORMATION AS SHOWN HEREON IS BASED ON A PREVIOUS SURVEY AS COMPLETED BY BENCHMARK SURVEYING AND LAND PLANNING, INC. DATED 7/22/14 AND HAVING A JOB NUMBER OF L14–498 1893.

4. MEASUREMENTS AS SHOWN HEREON WERE MADE TO UNITED STATES SURVEY FEET AND DECIMALS THEREOF.

5. VISIBLE UTILITIES WITHIN THE SURVEY LIMITS ARE AS SHOWN HERON.

6. VISIBLE IMPROVEMENTS ARE AS SHOWN HEREON.

7. IT IS THE OPINION OF THE UNDERSIGNED SURVEYOR & MAPPER THAT THE PARCEL OF LAND SHOWN HEREON IS IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR SANTA ROSA COUNTY, FLORIDA, COMMUNITY PANEL NUMBER 12113C0285H, EFFECTIVE DATE OF NOVEMBER 19, 2021.

8. GRAPHIC SYMBOLISM FOR FEATURES SUCH AS MONUMENTATION, FENCES, TREES, UTILITIES ETCETERA MAY BE EXAGGERATED IN SIZE FOR CLARITY PURPOSES. DIMENSIONS TO EXAGGERATED FEATURES WILL SUPERSEDE SCALED MEASUREMENTS.

9. NO TITLE SEARCH WAS PERFORMED BY NOR PROVIDED TO THIS FIRM FOR THE SUBJECT PROPERTY. THERE MAY BE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, RIGHTS-OF-WAY, BUILDING SETBACKS, RESTRICTIVE COVENANTS OR OTHER INSTRUMENTS WHICH COULD AFFECT THE BOUNDARIES OR USE OF THE SUBJECT PROPERTY.

10. THE SURVEYING BUSINESS CERTIFICATE OF AUTHORIZATION NUMBER FOR MCKIM & CREED, INC. IS LB7917.

11. THIS SURVEY DOES NOT REPRESENT NOR GUARANTEE OWNERSHIP.

12. THE FIELD SURVEY SHOWN HEREON WAS PERFORMED IN NOVEMBER-DECEMBER 2021, AND RECORDED IN FIELD BOOK RG26, PAGE 72 AND FIELD BOOK RG28, PAGES 18-44.



**PACE FIRE STATION #4 ADDITION** 

CIVIL

**EXISTING CONDITIONS** 



l		)				
	$\oplus$	½" CA	PPED IRON ROD		0U— — —	OVERHEAD U
	<b></b>	BENCI	HMARK IN VICINITY		- G — — –	GAS LINE
	R/W	RIGHT	Γ OF WAY		0	CHAINLINK FE
	$\bowtie$	WATE	RVALVE		- w	WATER LINE
	$\Diamond$	WATE	RMETER	<u> </u>	<u> </u>	CONCEPTION
	, Ç	FIRE H	HYDRANT	5	40	ENTRANCE
	0_			$\boxtimes$		ASPHALT PV
	0	SIGN				SECTION REI
		WOOD	DEN POST	••••	•••••	
-			PROPERTY BOUNDARY	••••	•••••	STORAGE/LA
-			SAWCUT LINE			
-	SF	-SF	SILT FENCE SINGLE ROW			
	0		TREE TO BE PROTECTED			
	X		TREE TO BE REMOVED			

OU--- OVERHEAD UTILITY LINE

-G--- GAS LINE O — CHAINLINK FENCE LINE



ENTRANCE

ASPHALT PVMT SECTION REMOVED

STORAGE/LAYDOWN AREA



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## PACE FIRE STATION #4 ADDITION

CIVIL **DEMOLITION & EROSION CONTROL** 



LEGE	ND	
$\oplus$	$\frac{1}{2}$ " CAPPED IRON ROD	OU OVERHEAD UTILITY LINE
•	BENCHMARK IN VICINITY	G GAS LINE
R/W	RIGHT OF WAY	
$\bigvee_{i=1}^{W}$	WATER VALVE	WATER LINE
$\Diamond$	WATER METER	
, , , ,	FIRE HYDRANT	
$\mathcal{O}$	UTILITY POLE	ASPHALT PVMT
	SIGN	SECTION MILLED AND OVERLAY
	WOODEN POST	ASPHALT PVMT
<u> </u>	PROPERTY BOUNDARY	SECTION



## PACE FIRE STATION #4 ADDITION

CIVIL SITE IMPROVEMENTS & DIMENSIONING



LEGEN	ID	
$\oplus$	$\frac{1}{2}$ " CAPPED IRON ROD	
•	BENCHMARK IN VICINITY	G GAS LINE
R/W	RIGHT OF WAY	
$\bowtie$	WATER VALVE	
$\diamond$	WATER METER	
,	FIRE HYDRANT	
$\mathcal{O}$	UTILITY POLE	
0	SIGN	
	WOODEN POST	
	PROPERTY BOUNDARY	

#### **GRADING NOTES**

- 1. THE FOLLOWING ABBREVIATIONS APPLY
  - EP = EDGE OF CONCRETE PAVEMENT MG = MATCH EXISTING GRADE
  - TC = TOP OF CURB
  - FL = FLOW LINE
  - FG = FINISHED GRADE



## **PACE FIRE STATION #4 ADDITION**

CIVIL





LEGE	EGEND								
$\oplus$	$\frac{1}{2}$ " CAPPED IRON ROD								
•	BENCHMARK IN VICINITY	G GAS LINE							
R/W	RIGHT OF WAY								
$\bigvee^{\mathbb{W}}$	WATER VALVE								
$\Diamond$	WATER METER								
	FIRE HYDRANT								
$\mathcal{O}$	UTILITY POLE								
	SIGN								
	WOODEN POST								
<u> </u>	PROPERTY BOUNDARY								

#### 20' 0 20' ISSUE DATE: 2024-04-30 SCALE MCE PROJ. # DRAWN DESIGNED 07615-001 **C-400** HORIZONTAL C.FELDMEYER AS SHOWN C.FELDMEYER WING NUMBE VERTICAL: A.MAINIERO CHECKED PROJ. MGR. A.MAINIERO AS SHOWN REVISION

## **PACE FIRE STATION #4 ADDITION**

civi∟ UTITLITIES

 PROJ. MGR.
 A.MAINIERO
 AS SHOWN
 REVISION

 STATUS:
 BID SET
 ---



### LANDSCAPE SUMMARY

19 SHRUBS

29 SHRUBS

12" DBH

MEASURED IMMEDIATELY AFTER PLANTING.

8 CANOPY TREES

REQUIRED

PROPOSED

REMOVED

REQUIRED

PROPOSED

UNDERSTORY TREE

ABOVE GRADE (DBH).

CANOPY

SHRUBS

MITIGATION TREES

ADJACENT	USE LANDSCAPE BUFFER
REQUIRED	150' NORTH BOUNDARY - 35' TYPE C BUFFER

PER 100' OF FRONTAGE: 4.8 CANOPY TREE 2.4 UNDERSTORY TREE

4 UNDERSTORY TREES

FOUR (4) TREES, 4"-12" TREES

CANOPY TREE SPECIES SHALL BE A MINIMUM OF EIGHT FEET OVERALL HEIGHT IMMEDIATELY AFTER PLANTING WITH AT LEAST A TWO INCH

MUST BE A MINIMUM OF FOUR FEET OVERALL HEIGHT IMMEDIATELY AFTER

PLANTING WITH AT LEAST A ONE INCH DIAMETER MEASURED AT 4.5 FEET

SHRUBS SHALL BE A MINIMUM OF TWELVE (12) INCHES IN HEIGHT WHEN

PRESERVED VEGETATION COUNTS MEET MINIMUM BUFFER REQ'S.

FIVE (5) TREES, 2.5" DBH

DIAMETER MEASURED AT 4.5 FEET ABOVE GRADE (DBH).

CIVIL LANDSCAPING PLAN

LEGE	ND		
$\oplus$	$\frac{1}{2}$ " CAPPED IRON ROD	- — — OU— — -	OVERHEAD UTILITY LINE
•	BENCHMARK IN VICINITY	- — — G — — –	GAS LINE
R/W	RIGHT OF WAY	O	CHAINLINK FENCE LINE
$\bowtie$	WATER VALVE	W	WATER LINE
$\Diamond$	WATER METER		
, Çç	FIRE HYDRANT		
$\mathcal{O}$	UTILITY POLE	ير ا∨ا چا	MITIGATION TREE
	SIGN	1000	
	WOODEN POST	ξP,	PARKING TERMINATION TREE
	PROPERTY BOUNDARY	Law -	
		CC)	BUFFER C TREE (CANOPY)
		CU,	BUFFER C TREE (UNDERSTORY)
LAN	IDSCAPE NOTES	$\mathbf{O}$	SHRUB

- 1. THIS PLAN IS THE ENGINEER'S LANDSCAPING CONCEPT AND IS ONLY INTENDED TO BE A REPRESENTATION OF AN INSTALLATION THAT SATISFIES THE CRITERIA OF THE SANTA ROSA COUNTY LAND DEVELOPMENT CODE. THE OWNER MAY CHOOSE TO REVISE THIS LAYOUT TO BETTER SUIT THE INTENT OF THE SITE. PRIOR TO ANY LANDSCAPING OR IRRIGATION INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING ANY REVISIONS TO THIS LANDSCAPING PLAN TO SANTA ROSA COUNTY DEVELOPMENT SERVICES FOR FINAL APPROVAL. CONTRACTOR MUST COORDINATE WITH ARCHITECT FOR FINAL SPECIES DESIGNATION AND LOCATION OF ALL SITE PLANTINGS.
- 2. NO MORE THAN 50% OF THE REQUIRED LANDSCAPING MATERIAL MAY BE OF THE SAME SPECIES.
- 3. THE USE OF EXISTING NATIVE SPECIES OF PLANT MATERIAL IS REQUIRED IN LANDSCAPE BUFFERS WHEN POSSIBLE.
- 4. ALL EXPOSED DIRT SHALL BE STABILIZED WITH SOD, HYDRO-SEED OR HAY/SEED.
- 5. ALL EXISTING VEGETATION OUTSIDE THE IDENTIFIED DEVELOPMENT AREA WILL REMAIN INTACT. NO FUTURE DEVELOPMENT OF THE REMAINING PARCEL WILL OCCUR WITHOUT FORMAL REVIEW AND APPROVAL FROM SANTA ROSA COUNTY DEVELOPMENT SERVICES.
- 6. OWNER ACCEPTS WATERING/MAINTENANCE RESPONSIBILITY FOR THE REQUIRED LANDSCAPING.
- 7. CANOPY TREES SHOULD NOT BE PLANTED WITHIN TWENTY FEET (20') OF OVERHEAD UTILITY LINES. WHEN OVERHEAD UTILITY LINES ARE PRESENT, CANOPY TREES MAY BE SUBSTITUTED USING A MIXTURE OF UNDERSTORY TREES AND SHRUBS. UNDERSTORY TREES MAY BE SUBSTITUTED FOR TREES AT A RATIO OF TWO (2) TO ONE (1), AND SHRUBS MAY BE SUBSTITUTED FOR TREES AT A RATIO OF FOUR (4) TO ONE (1). SUBSTITUTED UNDERSTORY TREES MUST MAINTAIN A MINIMUM CLEARANCE OF TEN (10) FEET FROM ANY OVERHEAD UTILITY. IN NO CASE SHALL THE SUBSTITUTED UNDERSTORY TREES BE A SPECIES THAT CAN REACH A MATURE HEIGHT TO EXCEED FIFTEEN (15) FEET.
- 8. WHEN, AS DETERMINED BY THE PLANNING DIRECTOR, OR THEIR DESIGNEE REQUIRED PERIMETER LANDSCAPING WOULD LIMIT THE VISIBILITY OF A BUSINESS, SHRUBS MAY BE SUBSTITUTED FOR TREES AT A RATIO OF FOUR (4) TO ONE (1).
- 9. ALL EXISTING NATIVE VEGETATION WITHIN THE BUFFER MUST BE SAVED AND PROTECTED DURING CONSTRUCTION OF THIS PROJECT TO THE GREATEST EXTENT POSSIBLE. ANY NATIVE CANOPY TREES WITHIN THE BUFFER AREA 2" DBH OR NATIVE UNDERSTORY TREES 1" DBH, AND ANY NATIVE SHRUBS CAN BE COUNTED TOWARD THE PLANTING REQUIREMENTS. COUNTY STAFF WILL INSPECT THE SITE TO VERIFY EXISTING VEGETATION COUNTS. PLEASE CONTACT THE COUNTY PLANNING AND ZONING OFFICE AFTER ALL SITE GRADING IS COMPLETE FOR A LANDSCAPE BUFFER INSPECTION. ADDITIONAL PLANTINGS MAY BE REQUIRED."





THE EXISTING NATIVE VEGETATION MUST BE SAVED WHERE POSSIBLE PER LDC SECTIONS 4.07.02 AND 4.07.0.3 AND WILL COUNT TOWARDS BUFFER REQUIREMENTS, AN INSPECTION MUST BE REQUESTED TO VERIFY



MCKIM&CREED	
1206 N. Palafox Street Pensacola, Florida 32501 Phone: (850) 994-9503	
CA Lic. No. 29588 www.mckimcreed.com	



ISSUE DATE:	2024-04-30	( 5
MCE PROJ. #	07615-0017	
DRAWN	C.FELDMEYER	HOF
DESIGNED	C.FELDMEYER	AS
CHECKED	A.MAINIERO	VE
PROJ. MGR.	A.MAINIERO	AS
STATUS:		





N.T.S.	5	TYPICAL GRASSED SWA	N.T.S.
GINEERING JND DF PAD HICK NE PER		GRADE ADJACENT AREAS POSITIVE FLOW INTO SWA	FOR ALE DEPTH HIN MAX.
FREE FROM TH A DADING AT BINATION S. STONES E RLYING IES. OF STONE THE			
N.T.S.			
ITH			
STATIO DETAILS	N #4 AD	DITION SOLUTION SUBJECT OF C.FELL DESIGNED C.FELL DESIGNED C.FELL CHECKED A.M PROJ. MGR. A.M STATUS:	24-04-30 315-0017 DMEYER AINIERO AINIERO AINIERO BID SET



		Quina Grundhoefer Architects         I       I         400 West Romana Street       Pensacola, FI 32502         80-433-5575       gg@qgarchitects.com         WALL LEGEND         EXISTING WALLS TO REMAIN         EXISTING WALL TO BE REMOVED
10,	REMOVE PORTION OF EXIST. WALL - SEE DETAIL 5/52.0	
50'	AT A A A A A A A A A A A A A A A A A A	Project Addition to Pace Fire Station #4 Pace Fire Rescue District Pace, Florida Date: Sheet No. 4/30/24 Project No. 1223









Quina Grundhoefer Architects 400 West Romana Street Pensacola, Fl 32502 850-433-5575 qg@qgarchitects.com WALL LEGEND EXISTING WALLS TO REMAIN INTERIOR WALL: 5/8" GYP. BD. ON BOTH SIDES 3 5/8" MTL STUDS @ 16"o.c. (6" MTL STUDS WHERE NOTED) w/ 3 1/2" ACOUSTIC BATT INSULATION EXTERIOR WALL: 4" NOMINAL BRICK VENEER w/ AIR SPACE & 2 1/2" RIGID INSULATION ON FLUID APPLIED AIR BURRIER ON 8" CMU'S GEAR STORAGE WALL: PAINTED 5/8" CDC PLYWOOD ON 2x4 WOOD STUDS @ 16" o.c. (01) NEW DOOR. SEE SHEET A4.1 NEW WINDOW. SEE SHEET A4.1 FEC FIRE EXTINGUISHER CABINET GENERAL NOTES 1. DIMENSIONS ARE TO FACE OF BRICK, AND FACE OF GYP. BD 2. SEAL ALL PENETRATIONS FROM CONDITIONED TO NON-CONDITIONED SPACES

### Project















![](_page_19_Figure_0.jpeg)

-	DOOR TYPE	HEAD	JAMB	T'HOLD	HDW. Set	UNDERCUT	REMARKS	Oping Crundhaafar Architagta
М.	ALUM./GLASS	3a/A4.1	3b/A4.1	3c/A4.1	1		PANIC DEVICE - ACCESS CONTROL	Quina Grundhoefer Architects
,	S.C.W./GLASS	1a/A4.1	1b/A4.1	1c/A4.1	2			
	S.C.W./GLASS	1a/A4.1	1b/A4.1	1c/A4.1	3			
,	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	4			
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	4			
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	4			
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	4			
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	4			
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	4			
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	4	5/8"		400 West Romana Street Pensacola, FI 32502
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	4	5/8"		dg@dgarcimetis.com
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	4	5/8"		
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	4	5/8"		
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	3	5/8"		
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	3			
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	5	5/8"		
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	6	5/8"	PANIC DEVICE	
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	3			
	S.C.W.	2a/A3.1	2b/A3.1	2c/A3.1	7		FIRE RATED - HOLD OPEN DEVICE-TIE TO F	IRE ALARM
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	8			
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	8			
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	8			
<b>v</b> I.	ALUM./GLASS	2a/A4.1	2b/A4.1	2c/A4.1	1		PANIC DEVICE – ACCESS CONTROL	
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	3			
	S.C.W.	1a/A4.1	1b/A4.1	1c/A4.1	3			
	NO DOOR	1a/A4.1	1b/A4.1	1c/A4.1	-		CASED OPENING	
					9		CHANGE EXIST LOCK TO KEY PAD	
					9		CHANGE EXIST LOCK TO KEY PAD	

![](_page_20_Figure_0.jpeg)

![](_page_21_Figure_0.jpeg)

F	FINISH SCHEDULE																					
FLOOR							ВА	SE		w/	٩LL	S		CE	ILIN	IG		WIN	NDOW	REMARKS		
.on mo	ROOM NAME	CARPET TILE	LUXURY VINYL TILE "A"	LUXURY VINYL TILE "B"	LUXURY VINYL TILE "C"	CERAMIC TILE	EXISTING TO REMAIN	WALK OFF MATT	VINYL	CERAMIC TILE	EXISTING TO REMAIN	PAINTED CYP. BD.	CERAMIC TILE	PAINTED CMU	PAINTED PLYWOOD	PAINTED GYP. BD.	ACOUSTIC. CLG. TILE	OPTIMA ACOUSTIC. PANELS	EXPOSED CONST.	BLINDS		
ß	FINISH	1	2	3	4	5	6	7	10	11	12	20	21	22	23	30	31	32	32	*		
100	ENTRY		2					7	10			20		22			31					NO BASE AT STOREFRONT
101	OFFICE		2						10			20		22			31					NO BASE AT STOREFRONT
102	EXERCISE		2						10			20		22			31					
103	BUNK 6	1							10			20		22			31			*		
104	BUNK 5	1							10			20		22			31			*		
105	BUNK 4	1							10			20		22			31			*		
106	BUNK 3	1							10			20		22			31			*		
107	BUNK 2	1							10			20		22			31			*		
108	BUNK 1	1							10			20		22			31			*		
109	WOMEN'S RESTROOM					5				11			21			30						
110	MEN'S RESTROOM					5				11			21			30						
111	LAUNDRY		2						10			20				30						
112	HVAC		2						10			20						·	33			EXPOSED CEILING
113	STORAGE		2						10			20					31					
114	ELECT.	1	2						10			20					31					
115	SPRINKLER		2						10			20					31					
116	DAY ROOM		2	3	4				10			20		22				32				
117	KITCHEN		2	-					10			20						32				
118	PANTRY 1		2						10			20				30						
119	PANTRY 2		2						10			20				30						
120	PANTRY 3		2						10			20				30						
121	JANITOR	$\vdash$	-	-		5				11		20				30						
122	HALLWAY	$\mathbf{I}$	2	1					10			20		22	+		31	+				
12.3	CONNECTOR	╞	2						<del>ات</del>	-		1			-	1	31					NO BASE AT STORFFRONT
124	GEAR STORAGE	╞					6			-	12	1			23	1	31					
		-	1	1	1	1			-		·	-	1			-				-		1
*	* BLINDS TO BE HUNTER DOUGLAS OR EQUAL – DARK BRONZE COLOR																					

![](_page_22_Figure_1.jpeg)

![](_page_22_Figure_2.jpeg)

1.00 1.01 SPEC THE S CONS	GENERAL NOTES THESE STRUCTURAL NOTES SHALL BE APPLIED WITH THE TECHNICAL SPECIFICATIONS IN THE IFICATIONS MANUAL. ANY CONFLICTING REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF TRUCTURAL ENGINEER-OF-RECORD FOR RESOLUTION BEFORE PROCEEDING WITH FABRICATION OR TRUCTION.	2.00 2.01 GEO 10110 CON
1.02 SPEC	DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT IFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.	2.02 PRES
1.03 STRU	VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY CTURAL ENGINEER OF ANY DISCREPANCY.	2.03 SUB(
1.04 ETC., THE E CONS	THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. TAKE NECESSARY PRECAUTIONS TO PROTECT XISTING STRUCTURE AND ITS FOUNDATION AND TO LIMIT, TO THE EXTENT POSSIBLE, THE EFFECTS OF TRUCTION THAT THE NEW STRUCTURE HAS ON THE EXISTING STRUCTURE.	IMME SOIL THE
1.05 ELEC <sup>-</sup> CONT ARCH ARCH	COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, TRICAL, PLUMBING AND CIVIL. NOTIFY STRUCTURAL ENGINEER OF ANY CONFLICT AND/OR OMISSION. RACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ITECT. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS.	2.04 FOUI EXCA DURI 2.05
1.06	DESIGN CRITERIA: THE STRUCTURE HAS BEEN DESIGNED UTILIZING THE FOLLOWING REFERENCES:	2.06
	<ul> <li>A. FLORIDA BUILDING CODE, 2023</li> <li>B. ASCE 7-22, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES</li> <li>C. ACI 302.1 R-15, CONCRETE FLOOR AND SLAB CONSTRUCTION</li> <li>D. ACI 318-19, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE</li> <li>E. ACI 360 R-10, DESIGN OF SLABS-ON-GROUND</li> <li>F. AISC STEEL CONSTRUCTION MANUAL 15<sup>TH</sup> EDITION</li> <li>G. TMS 402/602-16, BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES</li> </ul>	2.07
1.07	DESIGN LOADS A. DEAD LOADS: 1. MECHANICAL, ELECTRICAL, PLUMBING: 5 PSF 2. CEILINGS AND INSULATION: 5 PSF 3. ROOFING MEMBRANE: 5 PSF	
	<ul> <li>B. LIVE LOADS: (MAY BE REDUCED PER CODE)</li> <li>1. ROOFS: 20 PSF</li> <li>2. SLAB-ON-GRADE: 100 PSF</li> </ul>	
	C. WIND LOADS - STRUCTURE HAS BEEN DESIGNED TO CONFORM TO THE WIND PROVISIONS OF ASCE 7-16. SEE WIND PRESSURE DIAGRAM AND CHART FOR DESIGN INFORMATION.	
	<ol> <li>SEISMIC IMPORTANCE FACTOR (le): 1.25</li> <li>OCCUPANCY CATEGORY: III</li> <li>SEISMIC DESIGN CATEGORY: B</li> <li>MAPPED SPECTRAL RESPONSE ACCELERATIONS &amp; PARAMETERS Ss = 0.073g Sds = 0.078g S1 = 0.053g Sd1 = 0.085g</li> <li>SITE CLASSIFICATION: D</li> <li>BASIC SEISMIC-FORCE-RESISTING SYSTEM: REINFORCED MASONRY SHEARWALLS</li> <li>DESIGN BASE SHEAR: 2 KIPS</li> <li>SEISMIC RESPONSE COEFFICIENT, Cs = 0.032</li> <li>RESPONSE MODIFICATION FACTOR(S): 3</li> <li>ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE</li> </ol>	3.00 3.01 CON DET PRES SHO FOR STEE
	REFER TO MEP DWGS FOR SEISMIC SUPPORT AND ATTACHMENT REQUIREMENTS FOR CERTAIN MEP COMPONENTS AS PER THE IBC.	REVI
1.08	SHOP DRAWING SUBMITTALS: A. THE REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS DONE BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE REVIEW BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE ONLY. IF SHOP DRAWINGS HAVE NOT BEEN REVIEWED AND APPROVED BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER, THEY SHALL BE RETURNED WITHOUT APPROVAL.	S.02 MINII CON
B. WITH DIMEN	THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL ERRORS AND OMISSIONS ASSOCIATED THE PREPARATION OF ALL SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND ISIONS SPECIFIED IN THE CONSTRUCTION DOCUMENTS.	
C. CHAN	ALL MODIFICATIONS MADE FOR SUBMITTALS THAT ARE RE-SUBMITTED SHALL CLEARLY NOTE ALL GES.	
D. Shop	REPRODUCING THE CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT ALLOWED, AND DRAWINGS WILL BE RETURNED WITHOUT APPROVAL.	3.03 3.04
E.	<ul> <li>GENERAL SHOP DRAWING REQUIREMENTS:</li> <li>1. SUBMIT SHOP DRAWINGS AND ANY OTHER SPECIAL INFORMATION NECCESSARY FOR PROPER FABRICATION, ERECTION, AND PLACEMENT OF STRUCTURAL FABRICATIONS. INCLUDE PLANS, ELEVATIONS, AND SECTIONS. CLEARLY SHOW ANCHORAGES, CONNECTIONS, AND ACCESSORY ITEMS. THE DETAILER MUST INTERPRET THE CONTRACT DOCUMENTS AND CLEARLY CONVEY THIS INTERPRETATION TO THE FIELD IN THE FORM OF PLACING OR ERECTION DRAWINGS.</li> <li>2. CONCRETE REINFORCING DETAILER - PROVIDE PLACING DRAWINGS FOR FABRICATION AND PLACING OF REINFORCING STEEL. THESE DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: BAR LISTS, SCHEDULES, BENDING DETAILS, PLACING DETAILS, PLACING PLANS, AND PLACING ELEVATIONS. CLEARLY SHOW FOUNDATION REINFORCING. INDICATE BAR LENGTHS, LOCATION AND SPLICES OF CONTINUOUS BARS, AND BAR SUPPORTS. CLEARLY SHOW LOCATIONS OF ALL DOWELS ON PLAN.</li> </ul>	OWN CON 3.05 3.06 ENG SHAI DRA ENG 3.07
1.09	<ul> <li>SHOP DRAWINGS BY SPECIALTY ENGINEER:</li> <li>A. THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE SPECIALTY</li> <li>ENGINEERED ERECTION AND FABRICATION DRAWINGS WITH INPUT BY A SPECIALTY ENGINEER, BUT</li> <li>ARE NOT LIMITED TO: WINDOW SYSTEMS, STOREFRONT SYSTEM, ROOF TRUSS SYSTEMS, AWNINGS,</li> <li>LOUVERS, LADDERS, AND ALL EXTERIOR SOFFIT FRAMING.</li> <li>B. THE SPECIALTY ENGINEER OR SUPPLIER SHALL DESIGN AND INSTALL THEIR COMPLETED</li> <li>SYSTEM IN ITS ENTIRETY TO THE PRIMARY STRUCTURE PER THE CRITERIA NOTED ON THESE</li> <li>CONSTRUCTION DOCUMENTS. THE SPECIALTY ENGINEER SHALL ADHERE TO ALL REQUIREMENTS OF</li> <li>THE APPLICABLE BUILDING CODE OR THESE NOTES, WHICHEVER IS MORE STRINGENT.</li> <li>C. SHOP DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT/E.O.R. AND CALCULATIONS SHALL</li> <li>REQUIRE THE SEAL DATE AND SIGNATURE OF THE SPECIALTY ENGINEER REGISTERED IN THE</li> </ul>	3.08 PRO TOLE PERM 3.09 APPF OTHI BE L/ STAM

PROJECT STATE.

FOUNDATIONS AND SLAB-ON-GRADE

THE DESIGN OF FOUNDATIONS AND SLAB ON GRADE IS BASED ON THE CRITERIA ESTABLISHED IN THE ITECHNICAL REPORT BY NOVA ENGINEERING AND ENVIRONMENTAL LLC (NOVA), PENSACOLA, FL; FILE # 6-2023312, DATED DECEMBER 18, 2023. THE RECOMMENDATIONS OF THAT REPORT SHALL BE ISIDERED AN INTEGRAL PART OF THE CONTRACT DOCUMENTS.

THE TYPICAL SHALLOW FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING SSURE OF 2,000 PSF.

A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL GRADES, FILLS AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, KFILLS, ETC. SHOULD THE CONTRACTOR FIND UNDESIRABLE SOILS, HE SHALL STOP WORK AND EDIATELY CONTACT THE ENGINEER OF RECORD. ALL FOOTINGS SHALL REST EITHER ON UNDISTURBED . OR A MANUALLY OPERATED VIBRATORY SLED OR TAMPER SHOULD BE USED TO DENSIFY ANY SOILS IN BOTTOM OF THE FOOTING TRENCHES LOOSENED DURING THE EXCAVATION OPERATION.

SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. NDATIONS POURED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF AVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND RING CONCRETE PLACEMENT.

CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY PROTECTING ALL EXCAVATION SLOPES.

WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO IZONTAL.

SLAB-ON-GRADE REQUIREMENTS:

- UNLESS NOTED OTHERWISE, THE SLAB-ON-GRADE SHALL BE A MINIMUM OF: 4 INCHES THICK, PLACED ON COMPACTED SUBGRADE, AND REINFORCED WITH 6x6 W2.9xW2.9 WWF IN FLAT SHEETS (ROLLS ARE NOT PERMITTED). PROVIDE POSITIVE SUPPORT 2<sup>1</sup>/<sub>2</sub>" CLEAR FROM BOTTOM OF SLAB. LAP MESH 12".
- MACRO SYNTHETIC FIBER ALTERNATE ALLOWED SUCH AS FORTA FERRO AT 3 LBS. PER YARD (FORTA FERRO OR EQUIV.). (PROPERLY DESIGNED FIBER REINFORCED CONCRETE MAY BE SUBSTITUTED FOR MESH, SUBJECT TO PRIOR APPROVAL.)

PLACE CONTROL OR CONSTRUCTION JOINTS AT LOCATIONS INDICATED BY "C.J." IF NOT INDICATED, LOCATED JOINTS AT COLUMN CENTERLINES AND AT 12'-0" O.C MAX. SAWCUT CONTROL JOINTS AS SOON AFTER POURING AS POSSIBLE, WHEN CONCRETE WILL NOT RAVEL; 12 HRS. MAX. CURE CONCRETE IN ACCORDANCE WITH ACI 301. BEGIN CURING IMMEDIATELY AFTER POURING TO LIMIT CRACKING PRIOR TO SAWCUTTING CONTROL JOINTS.

SUBGRADE SHALL BE PREPARED AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

D. SEE SPECIFICATIONS FOR VAPOR RETARDER MATERIAL. VAPOR RETARDER SHALL BE A MINIMUM 15 MIL THICKNESS AND CONFORM TO ASTM E1745, CLASS A, B, OR C. THE VAPOR RETARDER SHOULD BE PLACED OVER THE PREPARED SUBGRADE. TO REDUCE THE POSSIBILITY OF PUNCTURE WHEN THE VAPOR RETARDER IS TO BE PLACED OVER A ROUGH GRANULAR FILL LAYER, PROVIDE A THIN LAYER OF APPROXIMATELY 1/2 INCH OF FINE-GRADED MATERIAL ROLLED OR COMPACTED OVER THE GRANULAR FILL LAYER PRIOR TO INSTALLATION OF THE VAPOR RETARDER. VAPOR RETARDER SHOULD BE OVERLAPPED 8 IN. AND TAPED AT THE JOINTS AND CAREFULLY FITTED AROUND SERVICE OPENINGS.

#### REINFORCED CONCRETE

ALL CONCRETE WORK SHALL CONFORM TO ACI 301-16, SPECIFICATIONS FOR STRUCTURAL CRETE. DESIGN IS BASED ON ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. AIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315R-18, GUIDE TO SENTING REINFORCING STEEL DESIGN DETAILS. DETAIL ALL CONCRETE WALLS AND BEAMS ON THE P DRAWINGS IN ELEVATION UNLESS SPECIFICALLY APPROVED OTHERWISE. SUBMIT SHOP DRAWINGS APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING EL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND IFWFD

UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING IMUM 28 DAY COMPRESSIVE STRENGTHS (Fc'), WATER TO CEMENTITIOUS CONTENT (W/CM) AND AIR ITENT ACCORDING TO EXPOSURE CLASS (EC):

		Fc'	MAX. W/CM	AIR CONTENT
۹.	FOUNDATIONS (EC)-F0, S0, W0, C0)	3500 PSI	0.50	N/A
З.	SLAB-ON-GRADE			
	(EC-F2, S0, W0, C0)	4500 PSI	0.45	6% (+/-1%)
С.	BEAMS – EXTERIOR			
	(EC-F2, S0, W0, C0)	4500 PSI	0.45	6% (+/-1%)
D.	COLUMNS AND SHEAR WALLS			
			0.45	60/ (+/ 10/)

(EC-F2, S0, W0, C0)4500 PSI 0.45 6% (+/-1%) CONCRETE MAY CONTAIN A PROPERLY DESIGNED SUPERPLASTICIZER FOR WORKABILITY.

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.

THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE VER'S TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE ITRACTOR'S.

USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED. THE STRUCTURAL INEER SHALL APPROVE THE LOCATION OF VERTICAL CONSTRUCTION JOINTS. CONSTRUCTION JOINTS LL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS AND CLEANED. CONTRACTOR SHALL SUBMIT WINGS SHOWING INTENDED POURING SEQUENCE AND LOCATION OF CONSTRUCTION JOINT TO THE INEER FOR REVIEW. PROPOSED METHODS MUST BE ACCEPTABLE TO THE ARCHITECT BEFORE USE.

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

TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. VIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED ERANCE DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT MITTED.

PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR ROVED; STAGGER SPLICE WHERE POSSIBLE; USE FULL TENSION SPLICE (CLASS "B") UNLESS NOTED ERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL APPED WITH FULL TENSION SPLICES (CLASS "B") UNLESS NOTED OTHERWISE. TERMINATE BARS WITH NDARD HOOKS.

3.10 REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE (PER ACI 318-14 TABLE 20.6.1.3.1):

- A. CONCRETE AGAINST EARTH (NOT FORMED): 3"
- FORMED CONCRETE:
  - #6 THROUGH #18 BARS: 2" #5 BARS AND SMALLER: 1-1/2"

3.11 DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.

3.12 THE DESIGN AND CONSTRUCTION OF FORMS AND SHORES SHALL CONFORM TO THE FOLLOWING **REQUIREMENTS:** 

- FORMS SHALL CONFORM TO SHAPE, FORM AND LINES ON DRAWINGS. ADEQUATE BRACING SHALL BE USED.
- FORMS SUPPORTED ON GROUND SHALL HAVE ADEQUATE MUDSILLS. D. QUALIFIED WORKMEN SHALL CONSTANTLY OBSERVE AND ADJUST, AS REQUIRED, ALL SHORES
- DURING CONCRETE PLACING. E. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ADEQUATE DESIGN AND
- CONSTRUCTION OF ALL FORMS F. SPECIAL ATTENTION IS DIRECTED TO THE REQUIREMENT THAT THE CONTRACTOR MUST

OF CONCRETE FOR SLABS; THIS ADJUSTMENT MUST NOT BE ATTEMPTED AFTER THE INITIAL SET OF CONCRETE.

3.13 SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED 75% OF ITS 28-DAY STRENGTH

3.14 THE LICENSED DESIGN PROFESSIONAL, A PERSON UNDER THE SUPERVISION OF A LICENSED DESIGN PROFESSIONAL, OR A QUALIFIED INSPECTOR SHALL VERIFY COMPLIANCE WITH CONSTRUCTION DOCUMENTS. (ACI 318-19)

3.15 FOR CONCRETE PADS SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

4.00 STRUCTURAL STEEL, STEEL DECK

4.01 STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED ACCORDING TO AISC 360-10 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

4.02 SUBMIT SHOP DRAWINGS PREPARED IN ACCORDANCE WITH AISC MANUAL "DETAILING FOR STEEL CONSTRUCTION", LATEST EDITION. STEEL FABRICATOR SHALL SUPPLY ANCHOR BOLT LOCATION DRAWINGS. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

4.03 STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL STEEL SHAPES, ANGLES, AND CHANNELS SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE. STEEL CONNECTION, GUSSET AND BASE PLATES SHALL CONFORM TO ASTM A572, GRADE 50. HOLLOW STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A500, GRADE C, FY = 50 KSI, UNLESS NOTED OTHERWISE.

4.04 BOLTS SHALL CONFORM TO ASTM F3125 A325 OR A490, 3/4-INCH DIAMETER MINIMUM, UNLESS NOTED OTHERWISE. BOLTS IN BEARING CONNECTIONS SHALL BE DESIGNATED TYPE N, TENSIONED, SNUG-TIGHT AS DEFINED BY AISC. BOLTS IN MOMENT CONNECTIONS AND IN TRUSSES SHALL BE DESIGNATED SLIP-CRITICAL (SC). FULLY TENSION SLIP-CRITICAL CONNECTIONS WITH DIRECT TENSION INDICATOR WASHERS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.

4.05 ALL ANCHOR BOLTS: ASTM F 1554, GRADE 55, WITH WELDABLE, STRAIGHT NUTS: ASTM A 563 (ASTM A 563M) HEAVY-HEX CARBON STEEL, PLATE WASHERS: ASTM A 36/A 36M CARBON STEEL, WASHERS: ASTM F 436 (ASTM F 436M). TYPE 1. HARDENED CARBON STEEL. FINISH: HOT-DIP ZINC COATING, ASTM A 153/A 153M, CLASS C MECHANICALLY DEPOSITED ZINC COATING, ASTM B 695, CLASS 50.

4.06 ALL COLUMNS, UNLESS NOTED OTHERWISE, SHALL BEAR ON 1 1/2" GROUT BED. GROUT SHALL BE NON-SHRINK, NON-METALLIC AND SHALL BE PLACED PRIOR TO POURING OF UPPER FLOOR LEVELS.

4.07 HEADED STUD SHEAR CONNECTORS (INDICATED AS "HS" ON PLANS): ASTM A 108, GRADES 1010 THROUGH 1020. HEADED-STUD TYPE, COLD-FINISHED CARBON STEEL: AWS D1.1. TYPE B. USE AUTOMATIC END WELDING OF HEADED-STUD SHEAR CONNECTORS ACCORDING TO AWS D1.1 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

4.08 DEFORMED BAR ANCHORS (INDICATED AS "DBA" ON PLANS): DEFORMED STEEL REINFORCING BARS IN ACCORANCE WITH ASTM A-706 (GRADE 420) SPECIFICATIONS, YIELD STRENGTH 70 KSI. USE AUTOMATIC END WELDING OF HEADED-STUD SHEAR CONNECTORS ACCORDING TO AWS D1.1 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

4.09 USE PRE-QUALIFIED WELDED JOINTS AS PER AISC, AND AWS D1.1 "STRUCTURAL WELDING CODE." USE ONLY CERTIFIED WELDERS; ALL ELECTRODES SHALL CONFORM TO AWS A5 GRADE E70XX. BARE ELECTRODE AND GRANULAR FLUX SHALL CONFORM TO AWS A5, F70 AWS FLUX CLASSIFICATION. MINIMUM WELD SIZE TO BE 3/16" FILLET WELD, U.N.O.

4.10 CUTS, BOLTS, COPING, ETC. REQUIRED FOR WORK OR OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.

4.11 SHOP CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS MAY BE WELDED OR BOLTED. FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED, WHERE POSSIBLE.

4.12 WHEN SPECIFICALLY NOT DETAILED ON THE DESIGN DRAWINGS PROVIDE THE FOLLOWING BEAM CONNECTIONS:

- USE TWO-SIDE ANGLE CONNECTIONS PER AISC SPECIFICATIONS, LATEST EDITION. Α.
- WHERE BEAM REACTIONS ARE SHOWN, CONNECTIONS SHALL DEVELOP THE REACTION GIVEN. WHEN BEAM REACTIONS ARE NOT SHOWN, CONNECTIONS SHALL BE DESIGNED TO SUPPORT ONE HALF THE TOTAL UNIFORM LOAD CAPACITIES SHOWN IN THE ALLOWABLE UNIFORM LOAD TABLES, PARTS 2 OF THE AISC MANUAL, FOR THE GIVEN BEAM, SPAN, AND GRADE OF STEEL SPECIFIED.

D. WHERE REACTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT.

4.13 FIELD SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF MEMBER AT THE POINT OF SPLICE IN BENDING, SHEAR AND AXIAL LOAD (COMPRESSION AND TENSION).

4.14 ALTERNATE CONNECTION DETAILS MAY BE USED IF SUCH DETAILS ARE SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE IS GRANTED. HOWEVER, THE ENGINEER SHALL BE THE SOLE JUDGE OF ACCEPTABILITY AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THE SPECIFIC DETAILS SHOWN ON THE DRAWINGS. IN ANY EVENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF SUCH ALTERNATE DETAILS, WHICH HE PROPOSES.

4.15 PROVIDE STIFFENER PLATES ON EACH SIDE OF WEB OF BEAM OR GIRDER AT POINTS OF CONCENTRATED LOADS. MINIMUM STIFFENER PLATE THICKNESS SHALL BE 1/2" OR FLANGE THICKNESS OF COLUMNS ABOVE OR BELOW, WHICHEVER IS THICKER.

4.16 FILLER BEAMS SHOULD BE SPACED EQUALLY BETWEEN THE COLUMNS IF NOT SHOWN OTHERWISE ON THE DRAWINGS.

ADJUST THE SHORING, USING SURVEYING INSTRUMENTS, DURING AND IMMEDIATELY AFTER PLACING

Ouina Grundhoefer Architects . . .

400 West Romana Street Pensacola, Fl 32502 850 433-5575 fax 850 433-5366 qg@qgarchitects.com

![](_page_23_Picture_67.jpeg)

![](_page_23_Picture_68.jpeg)

#### Project

Addition to Pace Fire Station #4 Pace, Florida

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![](_page_23_Picture_72.jpeg)

4.17 PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING TO PROVIDE LATERAL SUPPORT UNTIL ALL PERMANENT BRACING MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED.

4.18 STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND DRAWINGS RELATED TO OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND COORDINATE DIMENSIONS, CLEARANCES, ETC. WITH THE WORK OF OTHER TRADES. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE FRAMING AROUND OPENINGS IN FLOOR AND ROOF SLAB AS INDICATED IN THE MECHANICAL AND ARCHITECTURAL DRAWINGS.

4.19 THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE WEB REINFORCEMENT AT OPENINGS IN STEEL BEAMS AND GIRDERS FOR MECHANICAL AND ELECTRICAL PENETRATIONS. WEB OPENINGS SHALL BE LOCATED IN THE MIDDLE 1/3 OF BEAM DEPTH. WEB REINFORCEMENT IS NOT REQUIRED FOR WEB OPENINGS LESS THAN 4" DIAMETER OR 3" X 3". A MAXIMUM OF ONE WEB OPENING IS PERMITTED FOR EACH BEAM NOT HAVING WEB REINFORCEMENT.

4.20 STRUCTURAL STEEL CONTRACTOR SHALL COORDINATE THE BOTTOM OF BASE PLATE ELEVATION WITH THE TOP OF CONCRETE ELEVATION. IN CASE OF CONFLICT, THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR MORE STRINGENT REQUIREMENTS

4.21 PAINT STRUCTURAL STEEL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. DO NOT PAINT STEEL SURFACES TO BE ENCASED IN CONCRETE OR RECEIVE SPRAYED ON FIREPROOFING. CONNECTIONS DESIGNATED AS SLIP CRITICAL, OR TO BE WELDED.

4.22 PRIMER: SSPC-PAINT 25, TYPE I, ZINC OXIDE, ALKYD, LINSEED OIL PRIMER.

4.23 FABRICATION AND ERECTION OF STEEL DECKING SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S (SDI) "SPECIFICATION AND COMMENTARY FOR COMPOSITE STEEL FLOOR DECK, NON-COMPOSITE STEEL DECK, AND STEEL ROOF DECK" AS APPLICABLE TO THIS PROJECT.

4.24 MATERIAL FOR STEEL DECKING SHALL CONFORM TO ASTM A1008 OR A653 WITH 50 KSI MINIMUM YEILD STRENGTH. SEE DRAWINGS FOR STEEL DECK TYPE, GAUGE, AND SECTION PROPERTIES

4.25 ROOF DECK SHALL BE TYPE B. WIDE RIB.

4.26 UNLESS NOTED OTHERWISE ALL STEEL DECKING SHALL HAVE A GALVANIZED COATING CONFORMING TO ASTM A653, G90

4.27 STEEL ROOF DECK ANCHORAGE (UNLESS NOTED OTHERWISE ON PLANS OR DETAILS) ANCHOR DECK TO SUPPORTING STRUCTURE AT ALL EDGE RIBS PLUS INTERIOR RIBS AT A

MAXIMUM SPACING OF 6 INCHES USING THE FOLLOWING: WHEN BASE STEEL THICKNESS IS 3/8" OR LESS, USE #12 SELF-TAPPING HEX WASHER HEAD SCREWS (OR APPROVED EQUAL) OR X-EDN19 THQ12 POWDER ACTUATED FASTENERS BY HILTI (OR APPROVED EQUAL).

WHEN BASE STEEL THICKNESS EXCEEDS 3/8", IT IS THE CONTRACTOR'S OPTION TO PRE-DRILL AND USE #12 HEX WASHER HEAD SCREWS (OR APPROVED EQUAL) OR TO USE HILTI X-ENP-19 L15 POWDER ACTUATED FASTENERS (OR APPROVED EQUAL).

B. FASTEN SIDE LAPS OF ADJACENT UNITS AT A MAXIMUM SPACING OF 12 INCHES WITH #10 SELF-TAPPING SCREWS.

4.28 PROVIDE DECKING CONTINUOUS OVER 3 SPANS MINIMUM WHERE SUPPORTING STRUCTURE PERMITS.

4.29 STEEL DECKING SHALL BE ERECTED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS

#### 5.00 MASONRY

5.01 CONCRETE MASONRY DESIGN, CONSTRUCTION AND TESTING SHALL CONFORM TO TMS 402/602-16, BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES.

5.02 PROVIDE LIGHTWEIGHT, HOLLOW, LOAD-BEARING CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C90, UNLESS NOTED OTHERWISE.

5.03 PROVIDE MASONRY CONSTRUCTION WITH MINIMUM COMPRESSIVE STRENGTH. fm = 2.000 PSI.

5.04 PROVIDE TYPE "M" OR "S" MORTAR IN ACCORDANCE WITH ASTM C270 BY PROPORTION REQUIREMENTS, UNLESS NOTED OTHERWISE.

5.05 VERTICAL CELLS SHALL BE REINFORCED WITH #5 AT 24" O.C. MINIMUM, UNLESS NOTED OTHERWISE (U.N.O.) IN THE CONTRACT DRAWINGS. VERTICAL REINFORCING SHALL BE CONTINUOUS (LAPPED 48 BAR DIAMETERS MINIMUM AT SPLICES, U.N.O.) AND HELD IN POSITION AT THE TOP AND BOTTOM OF THE GROUT POUR. U.N.O., POSITION VERTICAL REINFORCING IN THE CENTER OF THE CELL.

5.06 PROVIDE GROUT FOR REINFORCED MASONRY IN ACCORDANCE WITH ASTM C476. GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI UNLESS NOTED OTHERWISE. GROUT SHALL BE FLUID CONSISTENCY. FLUID CONSISTENCY SHALL MEAN THAT CONSISTENCY IS AS FLUID AS POSSIBLE FOR POURING WITHOUT SEGREGATION OF THE CONSTITUENT PARTS. FILL ALL CELLS BELOW GRADE WITH GROUT. ALL GROUT SHALL BE CONSOLIDATED AT THE TIME OF POURING BY VIBRATING AND THEN RECONSOLIDATED BY AGAIN PUDDLING LATER, BEFORE PLASTICITY IS LOST. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF THE GROUT 1-1/2 INCHES BELOW THE TOP OF THE UPPERMOST UNIT.

5.07 PROVIDE HORIZONTAL JOINT REINFORCEMENT COMPLYING WITH ASTM A82, NO. 9 GAUGE OR HEAVIER, ZINC COATED, PLACED 16 INCHES ON CENTER UNLESS NOTED OTHERWISE.

5.08 PROVIDE RUNNING BONDS WITH VERTICAL JOINTS LOCATED AT CENTER OF MASONRY UNITS IN THE ALTERNATE COURSE BELOW, UNLESS NOTED OTHERWISE.

5.09 ALL MASONRY UNITS SHALL BE FREE OF EXCESSIVE DUST AND DIRT AT THE TIME THEY ARE LAYED BY THE MASON.

5.10 ALL REINFORCED HOLLOW UNIT MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. WALLS AND CROSS WEBS IN ALL REINFORCED MASONRY WALLS SHALL BE FULLY BEDDED IN MORTAR. ALL HEAD (OR END) JOINTS SHALL BE SOLIDLY FILLED WITH MORTAR FOR A DISTANCE IN FROM EACH FACE OF THE UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS, BOND SHALL BE PROVIDED BY LAPPING UNITS IN SUCCESSIVE VERTICAL COURSES.

5.11 PROVIDE VERTICAL CONTROL JOINTS BETWEEN REINFORCED MASONRY WALLS AND MASONRY PARTITION WALLS, AND AT A MINIMUM OF 20'-0" O.C.

ESR.

ANCHORS.

(1) (2) (3) (1) (2)

(2)

(3)

C)

(1)

(2)

(2)

(1)

(2)

6.00

6.01

POST-INSTALLED ANCHORS

EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. CONTACT HILTI AT (800) 879-8000 FOR PRODUCT RELATED QUESTIONS.

ANCHORAGE TO CONCRETE

- ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
- HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD PER ICC ESR-3187. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH HAS-E
- THREADED ROD PER ICC ESR-3187 HILTI HIT-RE 500-V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD PER ICC ESR-2322 FOR SLOW CURE APPLICATIONS
  - MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE: HILTI KWIK HUS-EZ AND KWIK HUS EZ-I SCREW ANCHORS PER ICC ESR-3027 HILTI KWIK BOLT-TZ EXPANSION ANCHORS PER ICC ESR-1917 HILTI KWIK BOLT 3 EXPANSION ANCHORS (UNCRACKED CONCRETE ONLY) PER ICC ESR-2302
  - HEAVY DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
  - HILTI HDA UNDERCUT ANCHORS PER ICC ESR 1546 HILTI HSL-3 EXPANSION ANCHORS PER ICC ESR 1545

**REBAR DOWELING INTO CONCRETE** 

- ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE: HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187. HILTI HIT-RE 500-V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH CONTINUOUSLY DEFORMED **REBAR PER ICC ESR-2322.**
- ANCHORAGE TO SOLID GROUTED MASONRY
  - ADHESIVE ANCHORS USE:
- HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM (ICC PENDING). STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR
  - MECHANICAL ANCHORS USE:
  - HILTI KWIK HUS-EZ SCREW ANCHOR PER ICC ESR-3056 HILTI KWIK BOLT-3 EXPANSION ANCHORS PER ICC ESR-1385
- 6.02 ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. 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. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
- 6.03 INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING AND IN STRICT ACCORDANCE WITH THE CURRENT ICC ESR. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFIS SYSTEM AND IN STRICT ACCORDANCE WITH THE CURRENT ICC
- 6.04 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
- 6.05 ANCHOR CAPACITY IS DEPENDANT 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.
- 6.06 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 HILTI FERROSCAN, GPR, X-RAY, CHIPPING, OR OTHER MEANS.
- 6.07 ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION IN ACCORDANCE WITH ACI 318-11 D.2.2.
- 6.08 INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318-2011 (SECTION D.9.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
- 6.09 PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDLING CODE AND PER THE CURRENT ICC-ES REPORT FOR THE ANCHOR.

![](_page_24_Figure_62.jpeg)

![](_page_24_Figure_63.jpeg)

#### WIND LOAD DETERMINATION ASSUMPTIONS - FLORIDA BUILDING CODE 2023

WIND VELOCITY	EXPOSURE	MEAN ROOF	ROOF SLOPE
(MPH)	CATEGORY	HEIGHT (FT.)	
150	С	15.5	1/4 :12

ULTIMATE DESIGN WIND PRESSURES COMPONENTS AND CLADDING (PS								
WIND ZONE	EFFECTIVE							
PER ASCE 7-22	10 SF	50 SF	100 SF					
ROOF ZONE 1	-79	-67	-62					
ROOF ZONE 1'	-45	-45	-45					
ROOF ZONE 2	-104	-89	-82					
ROOF ZONE 3	-142	-111	-97					
POSITIVE ALL ZONES	20	17	16					
OVERHANG ZONE 1&1'	-71	-68	-67					
OVERHANG ZONE 2	-97	-76	-67					
OVERHANG ZONE 3	-134	-98	-82					
WALL ZONE 4	-49	-44	-42					
WALL ZONE 5	-60	-51	-47					
POSITIVE ZONE 4&5	45	41	39					

NOTES:

- 1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA. 2. THE EDGE STRIP, a = 5.0 FT.
- PRESSURES SHALL BE APPLIED IN ACCORDANCE WITH THE FIGURE SHOWN ON THIS SHEET. 4. PRESSURES GIVEN ARE ULTIMATE LOADS TO BE USED WITH STRENGTH DESIGN. FOR SERVICE
- LOADS TO BE USED WITH ALLOWABLE STRESS DESIGN, MULTIPLY THE PRESSURES BY 0.60. SEE TABLES 2.3 AND 2.4 IN ASCE 7-22 FOR MORE INFORMATION ON LOAD COMBINATIONS.

![](_page_24_Figure_71.jpeg)

Project

Addition to Pace Fire Station #4 Pace, Florida

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![](_page_24_Picture_76.jpeg)

<u>ک</u>

![](_page_25_Figure_1.jpeg)

![](_page_25_Picture_2.jpeg)

#### 8" NOMINAL CMU WALL. UNLESS NOTED OTHERWISE (U.N.O.), WALL SHALL BE REINFORCED WITH #5 VERTICAL REINFORCING AT 2'-0" ON CENTER, CENTERED IN GROUT FILLED CELLS. PROVIDE HORIZONTAL JOINT REINFORCING AND ADDITIONAL VERTICAL REINFORCING AS OUTLINED IN THE GENERAL NOTES, TYPICAL DETAILS AND SECTIONS IN THESE DRAWINGS.

- = ADDITIONAL GROUT FILLED AND REINFORCED CELL IN ADDITION TO TYPICAL REINFORCING. PROVIDE BAR SIZE TO MATCH WALL REINF.
- = VERTICAL MASONRY CONTROL JOINT LOCATION; SEE TYPICAL DETAILS
- SAWN CONTRACTION JOINT OR COLD CONSTRUCTION JOINT; CONTRACTOR'S OPTION U.N.O. PLACE S.C.J. AS INDICATED AND AT 15'-0" O.C. MAXIMUM SPACING, TYPICAL
- = WHERE INDICATED, PROVIDE FORMED CONSTRUCTION JOINT ONLY.
- 4" MINIMUM THICKNESS SLAB-ON-GRADE REINFORCED WITH WWF 6x6
   W2.9xW2.9 WITH 3" CLR. POSITIVE SUPPORT FROM BOTTOM OF SLAB.
   SLAB SHALL BE PLACED OVER A VAPOR BARRIER AND CAPILLARY BREAK
   AS INDICATED IN THE GENERAL NOTES ON SHEET S0.1.
- = (2) #4x4'-0" RE-ENTRANT CRACK CONTROL REINF. W/1" CLR TO TOP OF SLAB

#### FOUNDATION SCHEDULE

IDTH	LENGTH	THICKNESS	BOTTOM REINFORCING	TOP REINFORCING						
3'-0"	3'-0"	1'-0"	(4)-#4 BARS E.W.	N/A						
7'-0"	7'-0"	1'-6"	(8)-#6 BARS E.W.	(8)-#5 BARS E.W.						
2'-6"	SEE PLAN	1'-0"	(4)-#5 CONTINUOUS BARS #5 AT 12" O.C. TRANSVERSE	N/A						
3'-6"	SEE PLAN	1'-0"	(6)-#5 CONTINUOUS BARS #5 AT 12" O.C. TRANSVERSE	N/A						

TYPICAL TOP OF FOOTINGS AT EL. -2'-0" U.N.O.

![](_page_25_Picture_13.jpeg)

![](_page_25_Figure_14.jpeg)

![](_page_25_Picture_15.jpeg)

Project

Addition to Pace Fire Station #4 Pace, Florida

Date:	
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![](_page_25_Picture_19.jpeg)

![](_page_26_Picture_0.jpeg)

B OF

BEAM BOTTOM FLANGE BRACES AT ALTERNATE – INTERIOR JOISTS.

2.5K1 JOIST OUTRIGGERS -L2x2x3/16" AT EACH \_ ALTERNATE JOISTS.

![](_page_26_Picture_4.jpeg)

![](_page_26_Figure_5.jpeg)

![](_page_26_Figure_6.jpeg)

![](_page_26_Picture_7.jpeg)

![](_page_26_Picture_8.jpeg)

![](_page_26_Picture_9.jpeg)

### **ROOF FRAMING NOTES**

K SERIES JOIST MFR. NOTES:

- 1. PROVIDE BEAM BOTTOM FLANGE BRACING AT ALL PERIMETER JOISTS AND ALTERNATE INTERIOR JOISTS TO BOTTOM FLANGE OF W-SHAPE BEAMS; LOADS SHOWN FOR JOIST DESIGN ARE SERVICE.
- 2. PROVIDE JOIST UPLIFT BRIDGING AND TYPICAL BRACING AT A SPACING EQUAL TO THE MINIMUM OF 10' OR AS REQUIRED FOR JOIST DESIGN. PROVIDE A MINIMUM OF ONE X-BRIDGED BAY AT EACH BRIDGING RUN.
- 3. SPACE JOISTS AT A MAXIMUM SPACING OF 5'-0" O.C., U.N.O. ON ROOF FRAMING PLAN.

1.5" TYPE B 20 GA VULCRAFT OR EQUIVALENT (fy ≥ 40 ksi) ( TH= 0.0358 in, I= 0.201 in<sup>4</sup>/ft) ROOF DECK, U.N.O. INSTALLATION/ATTACHMENT:

SUPPORT FASTENERS: #12 HWH SELF TAPPING TEK SCREWS SIDELAP FASTENERS: PUNCHLOK II SYSTEM OR #12 SCREWS FASTENER LAYOUT:

ALL ROOF ZONES: 36/7 PATTERN

SIDELAPS: PUNCHLOK II FASTENER SPACING: 24" O.C. OR #12 SCREWS AT 6" ON CENTER \* ANCHOR DECK ALONG ALL EDGES TO EXISTING DECKING WITH #12 SCREWS AT 6" O.C.; TYPICAL

**-FINISH REQUIREMENTS:** G-90 GALVANIZED COATING WITH SHOP PRIMER OVER GALVANIZING AT BOTTOM OF DECK.

Project

Addition to Pace Fire Station #4 Pace, Florida

Date: 4/30/2024 Project No. 1223 Sheet No.

![](_page_27_Figure_0.jpeg)

![](_page_28_Figure_0.jpeg)

S3.0

Project No. 1223

![](_page_29_Figure_0.jpeg)

![](_page_30_Figure_0.jpeg)

Date:	
4/30/2024	
Project No.	
1223	

![](_page_30_Picture_6.jpeg)

![](_page_31_Figure_0.jpeg)

![](_page_31_Picture_3.jpeg)

Project

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1223	

Sheet No. S5.0

![](_page_32_Figure_0.jpeg)

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TYPICAL GROUT FILLED AND REINF. CELL; SEE PLAN FOR REQ'MENTS.

ELEVATION AT OPENINGS WITH 2'-0" MIN. WALL EXTENSION PAST FACE OF OPENING

<sup>2</sup> TYPICAL MASONRY WALL OPENING DETAILS S5.1 3/4" = 1'-0"

![](_page_32_Figure_6.jpeg)

Project

Addition to Pace Fire Station #4 Pace, Florida

Date:	
4/30/2024	
Project No.	
1223	

![](_page_32_Picture_10.jpeg)

![](_page_33_Figure_0.jpeg)

![](_page_33_Picture_2.jpeg)

Project

Date:

Addition to Pace Fire Station #4 Pace, Florida

4/30/2024 Project No. 1223

Sheet No. S5.2

#### SYSTEM DESIGN APPROACH CRITERIA

URDINART HAZARD	GROUP I -	REMOTE AREA OF 1500 SQUARE FEET WITH A DENSITY OF .15 GPM OVER A MINIMO GPM AND 130 SQUARE FEET OF COVERAGE PER SPRINKLER HEAD MAXIMUM.
LIGHT HAZARD	-	WET PIPE FIRE SPRINKLER SYSTEM WITH A DENSITY OF .10 GPM OVER A MINIMU REMOTE AREA OF 1500 SQUARE FEET WITH A HOSE STREAM ALLOWANCE OF 100 GPM AND 225 SQUARE FEET OF COVERAGE PER SPRINKLER HEAD MAXIMUM.

SPRINKLER DESIGN SHALL BE IN ACCORDANCE WITH NFPA 13.

ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.

WATER	FLOW	DATA
WATER FLOW TEST DAT, ONLY AND IS CONSIDER OF SERVICE. THE CONT HYDRANT FLOW TEST A OBTAIN CURRENT FLOW	A IS FOR ESTIM RED NOT CURRE IRACTOR SHALL T POINT OF COI CONDITIONS FO	ATING PURPOSES INT AT THE POINT CONDUCT A NNECTION TO DR THE SPRINKLER
SYSTEM HYDRAULIC CAI (MIC) MICROBIAL INDUC	LCULATIONS. CED CORROSION	IS NOT EXPECTED.
STATIC PRESSURE: RESIDUAL PRESSURE: WATER FLOW:	70 PSI 55 PSI 1210 GPM	

![](_page_34_Figure_6.jpeg)

PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING AND/OR DEVICES ARE TO BE ATTACHED TO THE SPRINKLER PIPE HANGER SYSTEM UNLESS THE HANGER HAS BEEN SPECIFICALLY DESIGNED FOR THE ADDITIONAL LOADING.

THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.

> <u>BEAM HANGER DETAIL</u> NOT TO SCALE

![](_page_34_Figure_10.jpeg)

**INSPECTORS TEST CONNECTION DETAIL** NOT TO SCALE

![](_page_34_Figure_12.jpeg)

![](_page_35_Figure_0.jpeg)

] [	PLUMBING FIXTURE CONNECTION SCHEDULE									
1	MARK FIXTURE CONNECTIONS			NECTION	S	DESCRIPTION				
		TIXTORE	WASTE	CW	HW					
	P-1	WATER CLOSET (HANDICAPPED)	4"	1"		17" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE. PROVIDE WHITE OPEN FRONT SEAT LESS COVER, FLUSH VALVE, AND FLEXIBLE SUPPLY WITH STOP. INSTALL PER ADA REQUIREMENTS.				
	P-2	LAVATORY (HANDICAPPED)	1 1/2"	1/2"	1/2"	WALL HUNG TYPE. PROVIDE WITH SINGLE LEVER FAUCET, GRID WASTE, 17 GA P-TRAP, FLEXIBLE SUPPLIES WITH STOPS, TRAP INSULATION KIT, AND FLOOR MOUNTED CONCEALED ARM CARRIER. INSTALL PER ADA REQUIREMENTS.				
	P-3	WATER COOLER (HANDICAPPED)	1 1/2"	1/2"		DUAL HEIGHT WITH BOTTLE FILLING STATION, BARRIER FREE, WALL MOUNTED TYPE WITH ROUGH BRASS STOPS, 17 GA. P-TRAP, AND WALL HANGER. INSTALL PER ADA REQUIREMENTS.				
-	P-4	MOP SINK	3"	1/2"	1/2"	24"x24" TERRAZZO CORNER TYPE SERVICE BASIN WITH WALL MOUNTED SERVICE SINK FAUCET, VACUUM BREAKER, WALL BRACE, 3" STAINLESS STEEL DRAIN, AND STAINLESS STEEL RIM GUARD.				
	P-5	SHOWER	2"	1/2"	1/2"	FIELD CONSTRUCTED TILE ENCLOSURE WITH PRESSURE BALANCED ANTI-SCALD SHOWER VALVE, SHOWER HEAD, COMMERCIAL GRADE CURTAIN AND CURTAIN ROD, AND 2" STAINLESS STEEL DRAIN WITH 4"x4" SQUARE STRAINER.				
	P-5A	SHOWER (HANDICAPPED)	2"	1/2"	1/2"	FIELD CONSTRUCTED TILE ENCLOSURE WITH PRESSURE BALANCED ANTI-SCALD SHOWER VALVE, HAND HELD SHOWER HEAD, GRAB BARS, SEAT, COMMERCIAL GRADE CURTAIN AND CURTAIN ROD, AND 2" STAINLESS STEEL DRAIN WITH 4"x4" SQUARE STRAINER. INSTALL PER ADA REQUIREMENTS.				
-	P-6	KITCHEN SINK	1 1/2"	1/2"	1/2"	33"x21"x10" MIN. DEEP, TWO COMPARTMENT, COUNTER MOUNTED STAINLESS STEEL SINK, DECK MOUNTED FAUCET, SPRAY ASSEMBLY, BASKET STRAINER, 1 1/2" P-TRAP, FLEXIBLE SUPPLIES WITH STOPS, GARBAGE DISPOSAL EQUAL TO INSINKERATOR, AND DISHWASHER TEE FITTING.				
	P-7	DISHWASHER	5/8"		1/2"	PROVIDED BY OTHERS. PLUMBING CONTRACTOR TO MAKE ALL WASTE AND WATER CONNECTIONS.				
$\left  \right $	P-8	WASHING MACHINE BOX	2"	1/2"	1/2"	GALVANIZED STEEL, WALL RECESSED BOX WITH 1/2" HOT AND COLD WATER VALVES AND 2" CENTER DRAIN.				
] [	P-9	ICE MAKER BOX		3/8"		RECESSED BOX WITH 1/4 TURN ANGLE STOP.				

NOTE: FIXTURES SHALL BE WHITE AND FAUCETS SHALL BE POLISHED CHROME UNLESS OTHERWISE INDICATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL HANDICAPPED FIXTURES SHALL BE ADA COMPLIANT AND INSTALLED PER ADA REQUIREMENTS. REFERENCE ARCHITECTURAL PLANS FOR INSTALLATION HEIGHTS. ALL DOMESTIC WATER PIPING ABOVE THE SLAB SHALL BE INSULATED INCLUDING PIPING INSIDE WALLS. PIPING SHALL NOT BE INSTALLED IN A MANNER IN WHICH CONTACT WITH MASONRY PRODUCTS IS ALLOWED.

TANKLESS WATER HEATER SCHEDULE									
MARK TWH#	MINIMUM GAS INPUT BTU/HR	Maximum Gas input BTU/HR	GPM @ 35° RISE	ELECTRICAL DATA		DATA PHASE	REMARKS		
1	15,200	199,000	0.4 – 9.8	120	60	1	EQUAL TO RINNAI RL94eN WITH MCC-91 CONTROLLER AND RECESSED BOX AND ASSOCIATED PIPE COVERS. COORDINATE CONTROLLER LOCATION WITH OWNER. SET FOR 120° TEMPERATURE.		

LAUNDRY EQUIPMENT SCHEDULE											
MARK	FIXTURE	CW	HW HW TEMP		WASTE						
L-1	WASHER MACHINE	3/4"			TRENCH DRAIN	SS					

NOTE: LAUNDRY EQUIPMENT IS OWNER PROVIDED TO BE INSTALLED BY PLUMBING CONTRACTOR.

![](_page_35_Figure_7.jpeg)

![](_page_35_Figure_8.jpeg)

WAY ECO 3"VTR P-8 AAV <del>"</del> ታህ<sup>3"FD</sup> 385 ECO 4"

4" SANITARY WASTE.

<del>10</del>

TWO

FOR CONTINUATION.

SANITARY WASTE RISER NOT TO SCALE

![](_page_35_Figure_12.jpeg)

![](_page_36_Figure_0.jpeg)

![](_page_37_Figure_0.jpeg)

### HVAC NEW WORK KEY NOTES:

- (1) MOUNT AIR HANDLING UNIT ON RETURN AIR PLENUM CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS. INTERIOR OF PLENUM SHALL BE LINED WITH 1" THICK FIBER BOARD HAVING METALIZED VAPOR BARRIER TO AIR STREAM. ADJUST FINAL DIMENSIONS OF PLENUM TO ACCOMMODATE INSTALLATION OF A FLOOR DRAIN. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR. ENSURE FILTER TRAY REMAINS COMPLETELY ACCESSIBLE. INCLUDE A FLOAT SWITCH IN CONDENSATE DRAIN LINE THAT SHALL AUTOMATICALLY SHUT DOWN UNIT AS DRAINAGE SYSTEM FLOODS. ROUTE FULLY INSULATED CONDENSATE DRAIN TO FLOOR DRAIN. SUPPORT DRAIN PIPING WITH UNISTRUT TYPE SUPPORT SYSTEM IN HORIZONTAL AND VERTICAL POSITIONS
- (2) WALL MOUNTED TEMPERATURE CONTROLLER TO BE SEVEN DAY PROGRAMMABLE WITH DIGITAL DISPLAY, MODE SELECTION, OCCUPIED/UNOCCUPIED SCHEDULING, AUTOMATIC CHANGE OVER AND BATTERY BACK-UP.
- 3 ROUTE SUPPLY AIR DUCT UP FROM FULL SIZE OF AIR HANDLING UNIT OPENING AND TRANSITION TO INDICATED DUCT SIZE. INSTALL DUCT ABOVE CEILING FOR CONNECTION TO SUPPLY AIR DEVICES. OFFSET DUCT TO AVOID OBSTRUCTIONS AND INTERFERENCES. CONNECT AIR DEVICES TO TRUNK DUCT WITH BRANCH DUCT HAVING A MANUAL VOLUME DAMPER. BALANCE AIR DEVICES TO INDICATED AIR FLOW.
- (4) RETURN AIR DUCT SHALL BE DIRECTLY CONNECTED TO RETURN AIR PLENUM AND ROUTED UP TO ABOVE CEILING AND OVER GENERALLY AS INDICATED. PROVIDE DAMPERS IN DUCT CONNECTING TO RETURN AIR DEVICES. BALANCE EACH AIR DEVICE TO THE INDICATED AIR FLOW. OFFSET DUCT TO AVOID OBSTRUCTIONS. INCLUDE A MANUAL VOLUME DAMPER IN RETURN AIR DUCT WITHIN 36 INCHES OF PLENUM.
- 5 OUTDOOR HEAT PUMP SECTION TO BE MOUNTED ON 4" CONCRETE PAD 6" LARGER THAN UNIT IN ALL DIRECTIONS. ROUTE REFRIGERANT PIPING THROUGH EXTERIOR WALL INTO PIPING CHASE AND UP TO ABOVE CEILING AND OVER TO RESPECTIVE AIR HANDLING UNIT. SECURE UNIT TO PAD AT EACH CORNER WITH MECHANICAL FASTENER.
- 6 WALL MOUNTED (MIAMI-DADE CERTIFIED) WEATHERPROOF OUTSIDE AIR INTAKE LOUVER. LOUVER SHALL BE 16X16 WITH FULL SIZE INSULATED PLENUM BEHIND. CONNECT OUTDOOR AIR INTAKE TO LOUVER AND ROUTE ABOVE CEILING OVER TO MECHANICAL CLOSET FOR CONNECTION TO RETURN AIR PLENUMS. INCLUDE A MANUAL VOLUME DAMPER AND MOTORIZED DAMPER IN EACH DUCT NEAR PLENUM. BALANCE MANUAL VOLUME DAMPER TO INDICATED AIR FLOW AND INTERLOCK MOTORIZED DAMPER WITH OUTDOOR HEAT PUMP UNIT. AS HEAT PUMP UNIT IS OPERATING DAMPER SHALL BE OPEN AND OTHERWISE CLOSED.
- CEILING MOUNTED EXHAUST FAN WITH 8X4 DUCT ROUTED FOR DISCHARGE THROUGH EXTERIOR WALL LOUVER. CONNECT DUCT TO FULL SIZE PLENUM BEHIND DISCHARGE LOUVER.
- 8 Wall mounted (miami-dade certified) exhaust air louver. Louver shall have full size insulated plenum extended from behind louver for connection OF NEW EXHAUST AIR SYSTEMS. ADJUST FINAL LENGTH OF PLENUM TO ACCOMMODATE DUCT CONNECTIONS.
- (9) BI-POLAR IONIZATION AIR PURIFICATION SYSTEM INSTALLED IN SUPPLY AIR DUCT PER MANUFACTURER'S INSTRUCTIONS. INTERLOCK DEVICE WITH AIR HANDLING UNIT SUCH THAT AS UNIT IS OPERATING SO SHALL THE DEVICE BE OPERATING AND OTHERWISE BOTH SHALL NOT BE OPERATING.
- (1) KITCHEN HOOD TO BE RECIRCULATING TYPE. MECHANICAL CONTRACTOR TO INSTALL WITH INTEGRAL FIRE SUPPRESSION SYSTEM.
- ① CLOTHES DRYER EXHAUST VENT ROUTED FROM DRYER UP IN WALL TO ABOVE CEILING AND OVER FOR CONNECTION TO DISCHARGE VENT ON EXTERIOR WALL. DISCHARGE VENT SHALL HAVE BACKDRAFT FLAPPER AND BE A MINIMUM OF 10 FEET FROM OUTDOOR AIR INTAKE LOUVER. INSTALL VENT SYSTEM PER FMC. INCLUDE A BOOSTER FAN IN DRYER VENT AND A LINT TRAP. FAN AND LINT TRAP SHALL BE IN WALL BEHIND AND ABOVE DRYER. CONTROL FROM FAN SENSOR.
- (2) WALL MOUNTED PROPELLER TYPE EXHAUST FAN. FAN SHALL BE INSTALLED BEHIND WALL LOUVER WITH BACK DRAFT DAMPER AND BIRD SCREEN. INCLUDE ROOM SIDE GUARD. ADJUST FINAL POSITION OF FAN TO ACCOMMODATE ARCHITECTURAL PLANS. FAN SHALL BE WITHIN 24 INCHES OF CEILING STRUCTURE. CONTROL OF EXHAUST FAN SHALL BE FROM A MANUALLY OPERATED WALL SWITCH.
- (13) WALL LOUVER MOUNTED LOW ON WALL WITH BOTTOM WITHIN 18 INCHES ABOVE FLOOR. INCLUDE A BIRD SCREEN BEHIND LOUVER.
- 14 LINEAR SLOT DIFFUSER 48 INCHES LONG WITH 1 INCH SLOT. PROVIDE FULL SIZE ABOVE DIFFUSER FOR CONNECTION OF 10 INCH ROUND BRANCH DUCT .

![](_page_37_Figure_17.jpeg)

![](_page_38_Figure_0.jpeg)

							SF	PLIT	SYST	ГЕМ	AIR	to A	AIR H	IEAT	PUN	1P U	INIT S	SCHED	ULE											
MARK	AREA				AHU	DATA				# OF	STRIP				COO ARI ST.	LING CAF ANDARD	Pacity @ Condition:	6	HEAT ARI STA	TING CAPA ANDARD C	ACITY @ CONDITIONS	MIN.	COMPR.	OUTDOOR	HE	AT PUM	P ELECTR	ICAL DAT	A	
HPU#	SERVED	UNIT TONNAGE	TOTAL CFM	OA CFM	ESP	MOTOR HP	VOLTS	Hz	PHASE	HEAT STAGES	HEAT KW	MCA	MOCP	EDB •F	EWB °F	AMBIENT °F	TOTAL BTU/HR	SENSIBLE BTU/HR	EDB •F	AMBIENT F	TOTAL BTU/HR	SEER	RLA	FAN FLA	VOLTS	Hz	PHASE	MCA	MOCP	REMARKS
1	BUNK ROOM AREA	3	1080	120	0.5"	0.5	208	60	3	2	10.80	42	45	80	67	95	36,000	25,200	70	47	34,200	17.0	11.6	0.71	208	60	3	15	25	123
2	DAY ROOM	5	1740	180	0.5"	1.0	208	60	3	2	10.80	46	50	80	67	95	60,000	43,000	70	47	57,000	17.0	16.2	1.30	208	60	3	22	35	123

![](_page_38_Figure_5.jpeg)

MEC	HANICAL LEGEND
AHU	AIR HANDLING UNIT
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
FF	FXHAUST FAN
MVD	
RA RA	
RAR	RETURN AIR RECISTER
	CEILING DIFFUSER WITH THROW INDICATION
ar and a second	EXHAUST/RETURN AIR DEVICE
A+++++++++++++++++++++++++++++++++++++	FLEXIBLE DUCT
<del>ک</del> ے ج	DUCTWORK (DIMENSIONS: WIDTH X HEIGHT)
W X H	FLEX DUCT TAKE-OFF WITH AIR-SCOOP, SPIN-IN TAP AND BALANCING DAMPER
J.	ELBOW WITH TURNING VANES
<del>کر ا</del>	BULLHEAD TEE WITH TURNING VANES AND SPLITTER DAMPER
<u>کے ج</u>	45' SHOE-FITTING TAKE-OFF
	DUCT CONNECTION OVER AIR DEVICE
	RETURN AIR DUCT IN SECTION
	SUPPLY AIR DUCT IN SECTION
M	MOTORIZED DAMPER
$\mathbb{O}_{\#}$	THERMOSTAT WITH EQUIPMENT # SERVED MOUNT 48" A.F.F.
$\mathbf{}$	5/8" DOOR UNDERCUT
L	MANUAL VOLUME DAMPER

![](_page_38_Figure_7.jpeg)

• •	
400 West Romana Street	Pensacola, Fl 32502

1 THE HEAT PUMP SHALL OPERATE AS STAGE 1 HEATING. THE ELECTRIC STRIP HEAT SHALL OPERATE AS STAGE 2 HEATING AND DEFROST CYCLE. DURING STAGE 2 HEATING, THE COMPRESSOR AND THE ELECTRIC STRIP HEAT SHALL OPERATE SIMULTANEOUSLY.

	AIR	DEVICE	SCHED	ULE	
MARK	CFM	MAX. NC	AIR DEVICE SIZE	DUCT CONNECTION SIZE	REMARKS (TYPE)
0-75	0-75	25	6"x6"	6 <b>"</b> ø	CD
76-150	76–150	25	9"x6"	7 <b>"</b> ø	CD
151-200	151-200	25	9"x9"	8"ø	CD
201-300	201-300	25	9"x9"	9"ø	CD
201-300	201-300	25	9"x12"	10 <b>"</b> ø	CD
0-150	0-150	25	8"x8"	SEE PLANS	RAR
151-450	151-450	25	12"x12"	SEE PLANS	RAR
451-600	451-600	25	14"x14"	SEE PLANS	RAR
601-1000	601-1000	25	18"x18"	SEE PLANS	RAR
1001-2000	1001-2000	25	24"x24"	SEE PLANS	RAR
0-400	0-400	25	12 <b>"</b> x8"	SEE PLANS	SWR
0-400	0-400	25	18"x10"	SEE PLANS	SWRR

NOTES: 1. PROVIDE 24"x24" PANEL FOR ALL AIR DEVICES IN LAY-IN CEILING. 2. PROVIDE DUCT CONNECTION SIZE SHOWN UNLESS OTHERWISE NOTED

ON PLANS. 3. AIR DEVICE SIZES SHOWN ON PLANS TAKE PRECEDENCE OVER THIS SCHEDULE.

					F	TAN SO	CHEDU	LE				
MARK	TOTAL	TSP	MAX	TYPE	TYPE	INTERLOCK	MOTOR	MAX	ELEC	CTRICAL	DATA	DEMADKS
	CFM	IN WC	RPM	DRIVE	FAN	WITH	HP/WATTS	SONES	VOLTS	Hz	PHASE	NEWIANNS
EF#1	70	0.5	777	DIRECT	CEILING MOUNTED	LIGHT SWITCH	80 W	2.0	115	60	1	12345
EF#2	70	0.5	777	DIRECT	CEILING MOUNTED	LIGHT SWITCH	80 W	2.0	115	60	1	12345
EF#3	70	0.5	777	DIRECT	CEILING MOUNTED	LIGHT SWITCH	80 W	2.0	115	60	1	12345
EF#4	70	0.5	777	DIRECT	CEILING MOUNTED	LIGHT SWITCH	80 W	2.0	115	60	1	12345
EF#5	250	0.5	777	DIRECT	WALL MOUNTED	WALL SWITCH	1/8	8.0	115	60	1	12345
DBF#1	135	0.5	2500	DIRECT	IN LINE	HEAT SENSOR	0.65 A	•	120	60	1	6

<u>NOTES:</u> 1 PROVIDE WITH FAN SPEED CONTROLLER, CONTROLLER SHALL BE MOUNTED TO FAN. (4) PROVIDE WITH INTEGRAL DISCONNECT. 2 PROVIDE WITH ALUMINUM GRILLE. PLASTIC GRILLES SHALL NOT BE ACCEPTABLE  $\bigcirc$  provide with thermal overload.  $\bigcirc$  provide with integral backdraft damper. 6 BASIS OF DESIGN - REVERSOMATIC TLD-200.

-----OUTDOOR AIR DUCT

- PROVIDE TURNING VANES IN ALL 90° SUPPLY DUCT ELBOWS.

- RETURN AIR DUCT. REFER TO PLANS FOR ROUTING AND SIZE.

- ELECTRIC HEATING COIL. FIELD OR FACTORY INSTALLED AS REQUIRED.

MOTORIZED DAMPER MANUAL VOLUME DAMPER

- COIL SECTION

- PLENUM SECTION CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS AND SIZED TO SUIT PLAN REQUIREMENTS. WIDTH OF PLENUM SHALL BE ADJUSTED FOR CONNECTION OF OUTDOOR AIR DUCT AND RETURN AIR DUCT.

- CONDENSATE DRAIN WITH P-TRAP ROUTE TO FLOOR DRAIN.

![](_page_38_Picture_24.jpeg)

**CERTIFICATION OF AUTHORIZATION No: 5254** MECHANICAL ENGINEER: HOWARD M. YONGE, P.E. FLORIDA REG No. 32093 MECHANICAL ENGINEER: TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 66792 ELECTRICAL ENGINEER: ARUN T. VARGHESE, P.E. FLORIDA REG No. 76315 H. M. YONGE AND ASSOC. JOB# 23-158

![](_page_38_Picture_26.jpeg)

![](_page_38_Picture_27.jpeg)

### 

	DESCRIPTION
	LIGHTING FIXTURE. LETTER(S) DENOTE TYPE – SEE LIGHTING FIXTURE SCHEDULE.
	EXIT LIGHT, DARKENED QUADRANTS INDICATE ILLUMINATED FACES, ARROWS AS INDICATED. LETTER(S) DENOTE TYPE – SEE LIGHTING FIXTURE SCHEDULE.
	PANELBOARD – SEE RESPECTIVE PANELBOARD SCHEDULE. PROVIDE MECHANICALLY FASTENED PHENOLIC LABEL.
HII A-1,3,5	HASHMARKS INDICATE NUMBER OF CONDUCTORS, ABSENCE OF HASHMARKS INDICATES TWO CONDUCTORS PLUS GROUND. "A" DENOTES PANELBOARD SERVING CIRCUIT, "1" INDICATES CIRCUIT BREAKER SPACE IN
, 	PANELBOARD. SEE RESPECTIVE PANEL CIRCUIT SCHEDULE. MINIMUM CONDUCTOR SIZE = $\#12$ AWG.
$\sim$	ELECTRIC MOTOR
\$	<ul> <li>20 AMP, 120/277 VAC SINGLE POLE TOGGLE SWITCH – FLUSH WALL MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:</li> <li>3 – 20 AMP, 120/277 VAC THREE WAY TOGGLE SWITCH</li> <li>4 – 20 AMP, 120/277 VAC FOUR WAY TOGGLE SWITCH.</li> <li>M – FRACTIONAL HP SWITCH 30 AMP EQUAL TO HUBBELL HBL7832D OR HBL7810D, AS REQUIRED. PROVIDE PHENOLIC LABEL.</li> <li>DT – DUAL TECHNOLOGY WALL SWITCH WATTSTOPPER DSW-100 OR EQUAL.</li> </ul>
	D – LOW VOLTAGE DIMMER, 0–10V DIMMER – FLUSH WALL MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE. LOW VOLTAGE WIRING NOT INDICATED BUT SHALL BE PROVIDED TO EACH FIXTURE WITHIN THE SPACE IT SERVES.
WP	INDICATES WIRING DEVICE WITH WEATHER PROOF COVER PLATE. SHALL BE "EXTRA DUTY" TYPE. INDICATES DEVICE FLUSH MOUNTED HORIZONTALLY 42" AFF OR 6" ABOVE COUNTERTOP OR
	IN BACKSPLASH. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. 20 AMP, 125 VAC, 2-POLE, 3-WIRE, GROUNDING TYPE, DUPLEX RECEPTACLE. FLOOR BOX TYPE
	18" A.F.F. UNLESS NOTED OTHERWISE.
-0	18" A.F.F. UNLESS NOTED OTHERWISE.
⇒ <sub>N</sub>	ZU AMP, IZƏ VAU, Z-PULE, Ə-WIRE, GRUUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED DIRECTLY ADJACENT TO CATV OUTLET.
-	20 AMP, 125 VAC, 2–POLE, 3–WIRE, GROUND FAULT CIRCUIT INTERRUPTED TYPE DUPLEX RECEPTACLE FLUSH WALL-MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE.
	SPECIAL NEMA TYPE RECEPTACLE. PLUG TO MATCH EQUIPMENT BEING PROVIDED.
$\overline{\mathbb{D}}$	RETRACTABLE PLUG REEL.
(J)	JUNCTION BOX. POWER RELAY, PROVIDE WITH NEMA 1 ENCLOSURE MOUNT IN ACCESSIBLE SPACE
P	SEE MECHANICAL SCHEDULES FOR INTERLOCK REQUIREMENTS.
	AFF UNLESS NOTED OTHERWISE WITH 3/4" CONDUIT UP IN WALL TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE CONDUIT BUSHINGS. PROVIDE 2–CAT5E VOICE/DATA CABLES BACK TO COMMUNICATIONS BACKBOARD. PROVIDE 2–PORT COVER PLATE EQUAL TO COOPER CAT# 5520. PROVIDE TERMINATION AT OUTLET AND COMMUNICATION BACKBOARD.
Ŷ	CABLE TV OUTLET. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ANY ROUGH-IN. PROVIDE SINGLE-GA JUNCTION BOX. PROVIDE 3/4" CONDUIT UP IN WALL TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE CONDUIT BUSHIN PROVIDE 1-CATV COAX CABLE BACK TO COMMUNICATIONS BACKBOARD. PROVIDE TERMINATION AT OUTLET AND COMMUNICATION BACKBOARD.
SP-	16 GAUGE WIRE, BELDEN 8471, 2 CONDUCTOR LOUD SPEAKER WIRE.
(SA)	CEILING MOUNTED SPEAKER BOGEN MODEL S86T725PG8WBRVK.
<u>н</u> сі н <u>сі</u>	WALL-MOUNTED SPEAKER BOGEN MODEL WB1EZ WALL BAFFLE SPEAKER.
S	WALL-MOUNTED SPEAKER BOGEN MODEL SPT15A.
F	FIRE ALARM SYSTEM PULL STATION – SEMI FLUSH MOUNTED 48" A.F.F. TO CENTER UNLESS NOTED OTHERWISE. PROVIDE CLEAR PULL STATION LIFT COVER GUARD WITH STOPPER II.
Г F	FIRE ALARM SYSTEM AUDIO / VISUAL DEVICE SEMI FLUSH WALL MOUNTED 80" A.F.F. OR 6" FROM BOTTOM OF CEILING WHICHEVER IS LOWER. STROBES SHALL BE 75cd UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON AREAS OR CORRIDORS SHALL BE SYNCHRONIZED.
FX	FIRE ALARM SYSTEM VISUAL DEVICE SEMI FLUSH WALL MOUNTED 80" A.F.F. OR 6" FROM BOTTOM OF CEILING WHICHEVER IS LOWER. STROBES SHALL BE 75cd UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON AREAS OR CORRIDORS SHALL BE SYNCHRONIZED.
SD	CEILING MOUNTED FIRE ALARM SYSTEM PHOTOELECTRIC TYPE SMOKE DETECTOR.
Fs	SPRINKLER SYSTEM FLOW SWITCH. FURNISHED BY FIRE ALARM SYSTEM SUPPLIER, INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR.
Ts	PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR.
S.	FIRE ALARM SYSTEM DUCT MOUNTED PHOTOELECTRIC SMOKE DETECTOR COMPLETE WITH HOUSING AND AIR SAMPLING TUBES. "S" DENOTES DETECTOR IN SUPPLY DUCT; "R" DENOTES DETECTOR IN RETURN DUCT
	CEILING/WALL MOUNTED COMBINATION SMOKE ALARM AND CARBON MONOXIDE DETECTOR, AC PRIMARY WITH BATTERY BACKUP SECONDARY WITH 85dB ALARM HORN, PHOTOELECTRIC AND CO SENSORS, AND SOUNDER BASE. INTERCONNECT ALL DETECTORS TO SOUND WHEN ONE GOES INTO ALARM. WHERE WALL MOUNTED, THE SMOKE ALARM SHALL BE LOCATED NO FARTHER THAN 12" FROM THE ADJOINING CEILING SURFACE.
$\bigcirc$	DEVICE LOCATED WITHIN 20'-0" OF A STATIONARY OR FIXED COOKING APPLIANCE SHALL BE LISTED FOR RESISTANCE TO COMMON NUISANCE SOURCES FROM COOKING. ADDITIONAL INSTALLATION PLACEMENT REQUIREMENTS SHALL BE COORDINATED WITH CHAPTER 29 OF NFPA 72.
<u>(</u> (0)	DEVICE LOCATED WITHIN 20'-0" OF A STATIONARY OR FIXED COOKING APPLIANCE SHALL BE LISTED FOR RESISTANCE TO COMMON NUISANCE SOURCES FROM COOKING. ADDITIONAL INSTALLATION PLACEMENT REQUIREMENTS SHALL BE COORDINATED WITH CHAPTER 29 OF NFPA 72. CEILING/WALL MOUNTED SMOKE ALARM, AC PRIMARY WITH BATTERY BACKUP SECONDARY WITH 85dB ALARM HORN, PHOTOELECTRIC SENSOR. INTERCONNECT ALL DETECTORS TO SOUND WHEN ONE GOES INTO ALARM. WHERE WALL MOUNTED, THE SMOKE ALARM SHALL BE LOCATED NO FARTHER THAN 12" FROM THE ADJOINING CEILING SURFACE. DEVICE LOCATED WITHIN 20'-0" OF A STATIONARY OR FIXED COOKING APPLIANCE SHALL BE LISTED FOR RESISTANCE TO COMMON NUISANCE SOURCES FROM COOKING. ADDITIONA INSTALLATION PLACEMENT REQUIREMENTS SHALL BE COORDINATED WITH CHAPTER 29 OF NFPA 72.
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© S R FAC	DEVICE LOCATED WITHIN 20'-O" OF A STATIONARY OR FIXED COOKING APPLIANCE SHALL BE LISTED FOR RESISTANCE TO COMMON NUISANCE SOURCES FROM COOKING. ADDITIONAL INSTALLATION PLACEMENT REQUIREMENTS SHALL BE COORDINATED WITH CHAPTER 29 OF NFPA 72. CEILING/WALL MOUNTED SMOKE ALARM, AC PRIMARY WITH BATTERY BACKUP SECONDARY WITH 85dB ALARM HORN, PHOTOELECTRIC SENSOR. INTERCONNECT ALL DETECTORS TO SOUND WHEN ONE GOES INTO ALARM. WHERE WALL MOUNTED, THE SMOKE ALARM SHALL BE LOCATED NO FARTHER THAN 12" FROM THE ADJOINING CEILING SURFACE. DEVICE LOCATED WITHIN 20'-O" OF A STATIONARY OR FIXED COOKING APPLIANCE SHALL BE LISTED FOR RESISTANCE TO COMMON NUISANCE SOURCES FROM COOKING. ADDITIONA INSTALLATION PLACEMENT REQUIREMENTS SHALL BE COORDINATED WITH CHAPTER 29 OF NFPA 72. FIRE ALARM SYSTEM FAN SHUTDOWN RELAY – MOUNTED AT EQUIPMENT. FIRE ALARM CONTROL PANEL.
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				L	IGHTING FIXTURE SCHEDULE	
LIG <del>I</del> FIXTUR	ITING MANU ES WILL B	JFACTURERS E REVIEWEI	S OTHER TH	HAN THOSE LISTED	D IN THIS SCHEDULE SHALL SUBMIT <u>PRIOR APPROVAL NO LESS THAN 10</u> INE, NO EXCEPTIONS. SUBSTITUTE PACKAGES MAY BE RESUBMITTED <u>ONE</u>	D DAYS PRIOR TO BID. NO TIME FOLLOWING THE INITIAL
EI	NGINEER S	REVIEW. FA	MANUFA	CTURERS NOT AP	PROVED EQUIVALENT PACKAGE WILL RESULT IN DISAPPROVAL OF THE ENTIF PROVED PRIOR TO BID SHALL NOT BE SUBMITTED FOR CONSTRUCTION.	E SUBSTITUTE PACKAGE.
MARK		LAMPS	1	MOUNTING	MANUFACTURER AND CATALOG NUMBER	NOTES
1.7.4	LUMENS	WATTS				
LJAE	2200	55.1	35K	RECESSED GRID	H.E. WILLIAMS $LI = 22 - L39 - 835 - AF - DIM - UNV$ H.E. WILLIAMS $LT = 22 - L39 - 835 - AF - EM/10W - DIM - UNV$	
HF3	2400	27	LED 30K	CEILING MOUNT	HUNTERFAN 51025 MATTE SILVER	
LB2	4500	34.4	LED 35K	WALL SURFACE	H.E. WILLIAMS WMA-2-L40-835-AF-DIM-UNV	
DL8 DL8E	4000	49	LED 35K	SUSPENDED STEM	PEACHTREE LBB-12A-40-DMLV1-DX-35-80-E-NA-PND-LBB-120/277 PEACHTREE LBB-12A-40-DMLV1-DX-35-80-E-NA-PND-LBB-EML1-120/277	
S1 S1E	3800	39	LED 35K	SURFACE MOUNT	FCW3060-UNV4K-CRI85-38L-(FINISH)-LD FCW3060-UNV4K-CRI85-38L-(FINISH)-LD-BBU	
SO	2200	30	LED 35K	SUSPENDED STEM	CAMMAN P3001-18-LH-35K-CLV-MV-WM	
DL4 DL4E	4000	36.5	LED 35K	RECESSED	HE WILLIAMS 6DR L40 9 35 DIM UNV 0 W OF CS MWT HE WILLIAMS 6DR L40 9 35 DIM UNV 0 W OF CS MWT EM	
75R 75RE	9600	66	LED 35K	SURFACE MOUNT	HE WILLIAMS 75R-8-L100-835-UNV HE WILLIAMS 75R-8-L100-835-EM/10WLP-UNV	
НВ	530	28	LED 35K	WALL 10'0" A.F.G.	GARDCO 121-16L-530-NW-G4-3-UNV-LLC-IMRI2-BZ	
PL1	22000	210	LED 30K	POLE MOUNT 30'0" AFF	HE WILLIAMS VA1-L220-730-T5-F-D180-(BLK)-DIM/NDP 4 50	POLE: HE WILLIAMS AV30-A-160-40-188-T-TM238 -(BLK)-AB

NEM/	a 1, surface mount $EX$	(IST	INC	; L(	DAD	CE	ENT	ER	
200A	A M.C.B. 240/120V 1ø 3W							22,000	) AIC
CKT NO.	LOAD DESCRIPTION	BRE/ POLE	AKER AMP	ĸ	VA	BRE/	AKER Pole	LOAD DESCRIPTION	CKT NO.
1		0	60			60	0		2
3	NORIN EAST WALL HEATER	2	60	•		60	Z	SUUIN WEST WALL HEATER	4
5	BETWEEN DOORS	1	20	•		20	1	LIGHTS	6
7	DOOR OPENERS	1	20	•		20	1	TRUCK CHARGERS	8
9	SPACE	1	•	•		20	1	WALL OUTLET 1, 3, 4, 6	10
11	SPACE	1	•	•		20	1	WALL OUTLET 2, 5, EXIT LIGHTS	12
13	SPACE	1	•	•			1	SPACE	14
15	SPACE	1	•	•			1	SPACE	16
17	SPACE	1	•	•			1	SPACE	18
19	SPACE	1	•	•			1	SPACE	20
21	SPACE	1	•	•			1	SPACE	22
23	SPACE	1	•	•			1	SPACE	24
25	SPACE	1	•	•			1	SPACE	26
27	SPACE	1	•	•			1	SPACE	28
29	SPACE	1	•	•		•	1	SPACE	30
	ESTIMATE	D MAX	K LOA	D 35	.6 K	VA			

3 EXISTING SERVICE FEEDER FOR LOAD CENTER TO BE REMOVED. LOAD CENTER SHALL BE FED FROM NEW PANEL MAIN PANEL P1.

4. ALL MULTI - GANG DEVICES SHALL USE A COMMON COVER PLATE

5. ALL DEVICES (i.e. SWITCHES, RECEPTACLES, ETC.) SHALL BE IVORY AND THEIR COVER PLATES SHALL BE 302 STAINLESS.

6. AFF INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.

### 7. AFG INDICATES MOUNTING HEIGHT ABOVE FINISHED GRADE.

![](_page_39_Figure_15.jpeg)

NEMA 1, SURFACE MOUNT

NO LOAD DESCRIPTION

LIGHTS SOUTH

400A MLO 208Y/120V 3Ø 4W

(G) – PROVIDE GFCI BREAKER (L) – PROVIDE RED LOCKABLE BREAKER

\*\*\* - SUBFEED EXISTING LOAD CENTER THROUGH THIS BREAKER. SEE PANEL RISER DIAGRAM FOR MORE INFO.

![](_page_39_Figure_18.jpeg)

5 NEW PANEL P1 SCHEDULE FOR REQUIRED GENERATOR CIRCUITS.

NOTES: 2. FIELD VERIFY SERVING PANEL LOCATION. SEE FLOOR PLAN.

Ν	EW	′ M	AIN	ΡA	NEI	_ F	21	
							22,000	AIC
	BRE/ POLE	AKER AMP	K١	/A	BRE/	NKER POLE	LOAD DESCRIPTION	CKT NO.
	1	20	1.0	1.0	20	1	LIGHTS NORTH	2
(L)	1	20	0.5	1.4	20	1	ENTRY, DAY ROOM, ELECT	4
(G)	1	20	1.2	1.2	20	1	RIGHT REFRIGERATOR (G)	6
(G)	1	20	1.2	1.2	20	1	LEFT REFRIGERATOR (G)	8
	1	20	0.6	0.8	20	1	EXERCISE 102	10
	1	20	0.6	0.6	20	1	BUNK 6 103	12
	1	20	0.6	0.6	20	1	BUNK 4 105	14
	1	20	0.6	0.6	20	1	BUNK 2 107	16
	1	20	0.6	1.2	20	1	WATER FOUNTAINS (G)	18
	1	20	0.8	1.0	20	1	WASHER (G)	20
				F 0	70	0		22
	3	50	13.5	5.0	30	Ž	DRYER (G)	24
				0.1	20	1	DBF#1	26
(G)	1	20	1.9	0.2	20	1	OUTSIDE LIGHTING	28
	1	20	0.4					30
				4.5	25	3	HPU#1	32
	3	45	11.7					34
								36
				6.3	35	3	HPU#2	38
	3	50	12.5					40
				1.2	20	1	TELEPHONE BACKBOARD	42
				<b>F</b> 0	50	_		44
***	2	200	34.6	5.0	50	2	OVEN/RANGE	46
	1	20	1.0	1.0	20	1	KITCHEN COUNTER EQUIPMENT	48
	1	20	0.4	0.2	20	1	SITE LIGHTING	50
	1	20	1.0	0.2	20	1	GENERATOR RECEPTACLE AND LTG	52
	1	20	1.0		20	1	SPARE	54
INEC	TED	LOAD	116	5.6 K\	/A			1

		•
	400 West Romana Street 850-433-5575	Pensacola, Fl 32502
		15@15

#### **ELECTRICAL SPECIFICATIONS:**

- 1. ALL ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH THE 2014 NATIONAL ELECTRICAL CODE AND LOCAL CODES AND ORDINANCES.
- 2. ALL WIRING SHALL BE COPPER CONDUCTORS WITH TYPE THHN OR TYPE THW INSULATION RUN IN CONDUIT. PROVIDE INDIVIDUAL NEUTRAL CONDUCTORS FOR ALL SINGLE-POLE BRANCH CIRCUITS. TIED BREAKER HANDLES ARE NOT ACCEPTABLE.
- 3. ALL MATERIALS SHALL BE NEW AND UL LISTED FOR THE APPLICATION.
- 4. PROVIDE TYPED PANELBOARD SCHEDULES IN ALL PANELBOARDS.
- 5. CONDUITS RUN CONCEALED IN THE HOLLOW SPACE OF NON-MASONRY WALLS OR ABOVE SUSPENDED CEILINGS SHALL BE EMT. FLEX SHALL NOT BE PERMITTED. EXPOSED CONDUITS SHALL BE RUN AT RIGHT ANGLES TO OR PARALLEL WITH BUILDING LINES AND EXPOSED STRUCTURE. IN ALL CASES, CONDUIT RUNS SHALL BE GROUPED TOGETHER WHERE POSSIBLE AND SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, NOT FOR ANY SUSPENDED CEILING SUPPORT SYSTEM.
- 6. CONDUITS USED FOR CONNECTION TO RECESSED LIGHTING FIXTURES SHALL BE FLEX NOT OVER 6 FEET IN TOTAL LENGTH. CONDUITS FOR CONNECTION TO MOTORS OR VIBRATING EQUIPMENT SHALL BE LQFLEX NOT LESS THAN 18" LONG AND NOT OVER 60" LONG.
- 7. LIGHTING FIXTURES SHALL BE INSTALLED PLUMB, SQUARE, AND LEVEL WITH THE CEILING, WALL, AND IN ALIGNMENT WITH ADJACENT LIGHTING FIXTURES. MOUNTING HEIGHTS INDICATED SHALL BE TO THE BOTTOM OF THE FIXTURE FOR CEILING-MOUNTED FIXTURES AND TO CENTER OF FIXTURE FOR WALL-MOUNTED FIXTURES. LAY-IN TROFFER FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF 4 CEILING SUPPORT WIRES PER FIXTURE AND NOT MORE THAN 6 INCHES FROM EACH CORNER OF THE FIXTURE. FOR FIXTURES SMALLER IN SIZE THAN THE CEILING GRID, PROVIDE A MINIMUM OF FOUR WIRES PER FIXTURE. DO NOT SUPPORT FIXTURES BY CEILING ACOUSTICAL PANELS. ALL CONCEALED FIXTURE MOUNTING ACCESSORIES SHALL BE SECURELY TIED TO STRUCTURE. FLEXIBLE CONNECTIONS TO FIXTURES SHALL NOT EXCEED 6 FEET IN LENGTH. FIXTURES SHALL BE SOLIDLY GROUNDED TO RACEWAY SYSTEM.

	MECHANICAL	EQUIPMENT	ELECTRICAL SCHEDUL	E	
MARK	TYPE OF EQUIPMENT	VOLTAGE	FEEDER	DISCONNECT	NOTE
WH#1	WATER HEATER	208/3	3#8, 1#10G, 0.75"C	60A/3P	2
AHU#1	AIR HANDLING UNIT	208/3	3#8, 1#10G, 0.75"C	60A/3P	1
AHU#2	AIR HANDLING UNIT	208/3	3#8, 1#10G, 0.75"C	60A/3P	1
HPU#1	HEAT PUMP UNIT	208/3	3#10, 1#10G, 0.5"C	30A/3P	1
HPU#2	HEAT PUMP UNIT	208/3	3#8, 1#10G, 0.75"C	60A/3P	1

1. COORDINATE WITH THE MECHANICAL CONTRACTOR TO ENSURE ALL DISCONNECTS AND/OR VFD'S ARE PROVIDED AS REQUIRED.

![](_page_39_Picture_35.jpeg)

N3R – NEMA 3R

![](_page_39_Picture_36.jpeg)

MECHANICAL ENGINEER: HOWARD M. YONGE, P.E. FLORIDA REG No. 32093 MECHANICAL ENGINEER: TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 66792 ELECTRICAL ENGINEER: ARUN T. VARGHESE, P.E. FLORIDA REG No. 76315

51 EAST GREGORY STREET

PENSACOLA, FLORIDA 32502

PHONE: (850)434-2661

CERTIFICATION OF AUTHORIZATION No: 5254

H.M. YONGE & ASSOCIATES, INC.

CONSULTING ENGINEERS // EST. 1988

H. M. YONGE AND ASSOC, JOB# 23-158

![](_page_40_Figure_0.jpeg)

![](_page_40_Figure_1.jpeg)

![](_page_40_Figure_2.jpeg)

FINISH GRADE

![](_page_40_Figure_3.jpeg)

![](_page_40_Picture_4.jpeg)

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## SITE PLAN KEYNOTES:

1 PROVIDE ONE 1.5" CONDUIT FOR NEW FIRE ALARM SYSTEM NETWORK CONNECTION. SEE FIRE ALARM SYSTEM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS. PROVIDE ALL PULL BOXES AS REQUIRED. PENETRATIONS THROUGH FIRE WALLS SHALL BE PROVIDED WITH UL LISTED FIRE STOPPING COMPOUND.

- 2 NEW PAD-MOUNTED TRANSFORMER LOCATION. SEE RISER DIAGRAM FOR MORE INFORMATION.
- 3 METER AND SERVICE ENTRANCE AUTOMATIC TRANSFER SWITCH TO BE MOUNTED ON UNISTRUT.

A NEW DIESEL GENERATOR WITH SUB BASE FUEL TANK. PROVIDE WITH CONCRETE HOUSEKEEPING PAD TO EXTEND 4" ON ALL SIDES.

![](_page_40_Picture_11.jpeg)

![](_page_40_Picture_12.jpeg)

H.M. YONGE & ASSOCIATES, INC. CONSULTING ENGINEERS // EST. 1988

> 51 EAST GREGORY STREET PENSACOLA, FLORIDA 32502

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CERTIFICATION OF AUTHORIZATION No: 5254 MECHANICAL ENGINEER: HOWARD M. YONGE, P.E. FLORIDA REG No. 32093 MECHANICAL ENGINEER: TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 66792 ELECTRICAL ENGINEER: ARUN T. VARGHESE, P.E. FLORIDA REG No. 76315

![](_page_41_Figure_0.jpeg)

![](_page_41_Figure_1.jpeg)

NORTH

LIGHTING FLOOR PLAN scale: 1/8" = 1'-0"

![](_page_41_Figure_3.jpeg)

![](_page_41_Figure_4.jpeg)

# NORTH

## ELECTRICAL KEYNOTES:

- CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUIT IN THIS BUILDING. PROVIDE NEW CONDUIT, WIRE AND JUNCTION BOXES AS REQUIRED.
- 2 REPLACE FIXTURES IN EXISTING FIRE STATION WITH LED FIXTURES. CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITS.
- 3 ROUTE HOMERUN THROUGH ASTRONOMIC TIME CLOCK IN NEMA 3R ENCLOSURE EQUAL TO INTERMATIC ET90000. LIGHTS SHALL BE PROGRAMMED "ON" AS DUSK. "OFF" TIME PROGRAMMING SHALL BE COORDINATED WITH THE OWNER. INSTALL TIME CLOCK ADJACENT TO SERVING PANELBOARD.
- PROVIDE 3/4" x4' x 8' PLYWOOD BACKBOARD. PROVIDE 6" CLEARANCE ABOVE FLOOR. ALL POWER AND DATA RECEPTACLES SHALL BE FLUSHED WITH BACKBOARD. PROVIDE #6 GROUND IN 3/4" EMT CONDUIT FROM SERVING ELECTRICAL PANEL TO BACKBOARD. COIL 10' SLACK AT BACKBOARD. PROVIDE GROUND BUS BAR (HARGER GBI SERIES) AS REQUIRED BY COMMUNICATIONS CONTRACTOR.
- 5 DISCONNECTS TO BE MOUNTED ON UNISTRUT.

![](_page_41_Figure_12.jpeg)

POWER FLOOR PLAN SCALE: 1/8" = 1'-0"

![](_page_41_Picture_14.jpeg)

Pace Fire Station #4 Pace Fire Rescue District Pace, Florida Sheet No.

F

Date: 04/30/24

Project No. 1223

![](_page_41_Picture_16.jpeg)

H. M. YONGE AND ASSOC. JOB# 23-158 TAD> M:\Jobs\_Active\23158 Pace Fire Station #4\23158E11.dwg 02/27/24 15:24

![](_page_42_Figure_0.jpeg)

![](_page_42_Figure_2.jpeg)

NORTH

SYSTEMS FLOOR PLAN SCALE: 1/8" = 1'-0"

![](_page_42_Picture_6.jpeg)

![](_page_42_Picture_7.jpeg)

![](_page_42_Picture_8.jpeg)

TAD> M:\Jobs\_Active\23158 Pace Fire Station #4\23158E12.dwg 02/27/24 15:24

H.M. YONGE & ASSOCIATES, INC. CONSULTING ENGINEERS // EST. 1988 51 EAST GREGORY STREET PENSACOLA, FLORIDA 32502 PHONE: (850)434-2661 CERTIFICATION OF AUTHORIZATION No: 5254 MECHANICAL ENGINEER: HOWARD M. YONGE, P.E. FLORIDA REG No. 32093 MECHANICAL ENGINEER: TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 66792 ELECTRICAL ENGINEER: ARUN T. VARGHESE, P.E. FLORIDA REG No. 76315

H. M. YONGE AND ASSOC. JOB# 23-158