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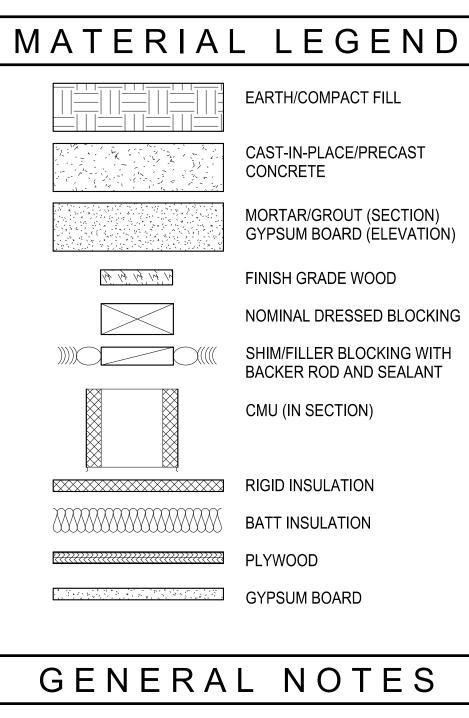
ADAL & REPAIR CHILD DEVELOPMENT CENTER **BUILDING 90353** FTEV 12-1164 A&B

DESCRIPTION APP'D			
REV # DATE			
APPROVED	CHIEF ENGINEER APPROVED	CIVIL ENGINEER	
ADAL CHILD DEVELOPMENT CENTER	BLDG. & REPAIR CHILD DEVELOPMENT CENTER BLDG 90353	COVER SHEET	
DATE			
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SHEET	_	SUBMITTAL	1	SHEET	-
NO.	SHEET NAME	DATE	_	NO.	
GENER G1	COVER SHEET	16 SEPT 2016	-	M16 M17	MECHANICAL DETAILS
G2	SYMBOLS AND ABBREVATIONS	17 JUNE 2021		M18	MECHANICAL DETAILS
G3	LIFE SAFETY	16 SEPT 2016		M19	MECHANICAL DETAILS
G4	OVERALL SEQUENCING PLAN	{17 JUNE 2021]/1\	M20	MECHANICAL DETAILS
			1	M21	MECHANICAL DETAILS
21	EXISTING SITE, DEMOLITION & EROSION CONTROL PLAN	16 SEPT 2016	_	M22	CONTROLS
22	SITE LAYOUT AND DIMENSION PLAN	16 SEPT 2016	-	M23	
23 24	GRADING & DRAINAGE PLAN UTILITY PLAN	16 SEPT 2016 16 SEPT 2016	-	ELECT E0	
24 25	DETAILS	16 SEPT 2016	-	E0 E1	OVERALL ELECTRICAL
DEMOL			-	E2	
D1	OVERALL DEMOLITION PLAN	16 SEPT 2016	-	E3	ENLARGED ELECTRICA
02	PARTIAL DEMOLITION PLAN - PART A	16 SEPT 2016		E4	OVERALL ELECTRICAL
03	DEMOLITION ROOF PLAN AND WALL SECTION	16 SEPT 2016		E5	ENLARGED ELECTRICA
	TURAL		_	E6	ENLARGED ELECTRICA
<u>51</u>	GENERAL NOTES	16 SEPT 2016	_	E7	
S2	GENERAL NOTES AND WIND LOAD DIAGRAMS	16 SEPT 2016	_	E8	
53 54	FOUNDATION & SLAB-ON-GRADE PLAN ROOF FRAMING PLAN	16 SEPT 2016 16 SEPT 2016	-	E9 E10	ENLARGED ELECTRICA
5 5	WALL SECTIONS	16 SEPT 2016	-	E11	ELECTRICAL SCHEDUL
55 56	WALL SECTIONS WALL SECTIONS	16 SEPT 2016	1	E12	ELECTRICAL SCHEDOL
50 57	TYPICAL MASONRY DETAILS	16 SEPT 2016	1		OMMUNICATIONS
\$8	TYPICAL SECTIONS & DETAILS	16 SEPT 2016	1	T0	TELECOMMUNICATION
RCHI	TECTURAL	_,]	T1	OVERALL TELECOMMU
\1	OVERALL NEW WORK PLAN	16 SEPT 2016]	T2	ENLARGED TELECOMM
2	PARTIAL NEW WORK FLOOR PLAN - PART A	16 SEPT 2016	4	Т3	ENLARGED TELECOMM
43	PARTIAL NEW WORK FLOOR PLAN - PART B	16 SEPT 2016	4	T4	OVERALL TELECOMMU
\4	PARTIAL NEW WORK FLOOR PLAN - PART C	16 SEPT 2016	4	T5	ENLARGED TELECOMM
<u>\</u> 5	OVERALL NEW WORK RCP	16 SEPT 2016	-	T6	ENLARGED TELECOMM
\6 \7	PARTIAL NEW WORK REFLECTED CEILING PLAN - PART A	16 SEPT 2016	-	Т7 то	TELECOMMUNICATION
\7 \8	NEW WORK ROOF PLAN	16 SEPT 2016	-	Т8 то	
48 49	EXTERIOR ELEVATIONS BUILDING SECTION	16 SEPT 2016	-	T9	
10	WALL SECTIONS	16 SEPT 2016 16 SEPT 2016	-	T10	TELECOMMUNICATION
410 411	INTERIOR ELEVATIONS	16 SEPT 2016	-		
12	WALL TYPES	16 SEPT 2016	-		
A13	DETAILS	16 SEPT 2016	-		
A14	DETAILS	16 SEPT 2016	-		
415	CASEWORK DETAILS	16 SEPT 2016	-		
416	DOOR DETAILS	16 SEPT 2016	-		
417	WINDOW DETAILS	16 SEPT 2016			
418	DOOR SCHEDULE AND WINDOW TYPES	16 SEPT 2016			
NTERI	ORS				
1	FINISH PLAN	16 SEPT 2016			
2	SIGNAGE PLAN	16 SEPT 2016			
3	FINISH SCHEDULE AND LEGEND	{17 JUNE 2021	<u>/ 1 \</u>	7	
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ຊ1 ຊ2	ENLARGED FOODSERVICE PLAN AND ELEVATIONS FOODSERVICE EQUIPMENT LIST AND SCHEDULE OF CONNECTIONS	16 SEPT 2016 17 JUNE 2021			
22 23	ENLARGED FOODSERVICE PLUMBING ROUGH-IN PLAN	16 SEPT 2016	<u>/ 1 \</u>	2	
24 24	ENLARGED FOODSERVICE ELECTRICAL ROUGH-IN PLAN	16 SEPT 2016	-		
25 25	ENLARGED FOODSERVICE SPECIAL CONDITIONS PLAN	16 SEPT 2016	-		
			1		
0	FIRE PROTECTION LEGEND	16 SEPT 2016	1		
1	FIRE PROTECTION DEMO PLAN	16 SEPT 2016			
2	FIRE PROTECTION NEW WORK PLAN	16 SEPT 2016			
PLUMB	ING	1			
0	PLUMBING LEGEND NOTES	16 SEPT 2016	4		
P1	PLUMBING SCHEDULES	16 SEPT 2016	4		
2 2	ENLARGED DEMO PLAN AREA A	16 SEPT 2016	-		
23 24	ENLARGED DEMO PLAN AREA B	16 SEPT 2016	-		
24 25	PLUMBING SANITARY PLAN A ENLARGED SANITARY PLAN AREA B	16 SEPT 2016 16 SEPT 2016	-		
25 26	ENLARGED SANITARY PLAN AREA B ENLARGED ROOF PLAN AREA A	16 SEPT 2016 16 SEPT 2016	-		
26 27	ENLARGED ROOF PLAN AREA A ENLARGED DOMESTIC WATER AND GAS PLAN AREA A	16 SEPT 2016	-		
27 28	ENLARGED DOMESTIC WATER AND GAS PLAN AREA A	16 SEPT 2016	1		
-0 -9	SANITARY RISER DIAGRAMS	16 SEPT 2016	1		
9 P10	WATER AND GAS RISER DIAGRAM	16 SEPT 2016	1		
·10 ·11	PLUMBING DETAILS	16 SEPT 2016	1		
P12	PLUMBING DETAILS	16 SEPT 2016	1		
	NICAL		1		
/10	MECHANICAL LEGEND	16 SEPT 2016]		
И1	MECHANICAL SCHEDULES	16 SEPT 2016			
/12	MECHANICAL SCHEDULES	16 SEPT 2016	4		
//3	MECHANICAL OVERALL DEMO PLAN	16 SEPT 2016	4		
/4	ENLARGED MECHANICAL DEMO PLAN A	16 SEPT 2016	4		
Л5 10	ENLARGED MECHANICAL DEMO PLAN B	16 SEPT 2016	4		
/6	ENLARGED DEMO MECHANICAL ROOMS	16 SEPT 2016			
Л7 49	OVERALL MECHANICAL NEW WORK PLAN	17 JUNE 2021	-		
/18	ENLARGED MECHANICAL NEW WORK PLAN A	17 JUNE 2021	Λ		
И9 И10	ENLARGED MECHANICAL NEW WORK PLAN B	17 JUNE 2021	<u>¥1\</u>	7	
И10	OVERALL PIPING PLAN	16 SEPT 2016	-		
/11	ENLARGED NEW WORK PIPING PLAN A	16 SEPT 2016	-		
		16 SEDI 2016			
<i>I</i> 12	ENLARGED NEW WORK PIPING PLAN B	16 SEPT 2016			
M11 M12 M13 M14	ENLARGED NEW WORK PIPING PLAN B ENLARGED MECHANICAL ROOMS ENLARGED MECHANICAL ROOMS	16 SEPT 2016 17 JUNE 2021 17 JUNE 2021			

INDEX OF DRAWINGS	
SHEET NAME	SUBMITTAL DATE
\$	16 SEPT 2016
6	16 SEPT 2016
	16 SEPT 2016
	16 SEPT 2016

	16 SEPT 2016
END AND NOTES	17 JUNE 2021
RICAL DEMO PLAN	16 SEPT 2016
TRICAL DEMO PLAN A	16 SEPT 2016
TRICAL MECH ROOM 155 DEMO PLAN	16 SEPT 2016
RICAL NEW WORK PLAN	16 SEPT 2016
TRICAL NEW WORK LIGHTING PLAN A	17 JUNE 2021
TRICAL NEW WORK POWER PLAN A	17 JUNE 2021
TRICAL NEW WORK MECH POWER PLAN A	16 SEPT 2016
TRICAL NEW WORK SYSTEMS PLAN	16 SEPT 2016
TRICAL NEW WORK POWER PLAN B & C	16 SEPT 2016
GLE LINE DIAGRAM	17 JUNE 2021
EDULES	17 JUNE 2021
PLAN	17 JUNE 2021
ATIONS LEGEND AND NOTES	{17 JUNE 2021 1
OMMUNICATIONS DEMO PLAN	16 SEPT 2016
COMMUNICATIONS DEMO PLAN A	{17 JUNE 2021 1
COMMUNICATIONS DEMO PLAN B & C	16 SEPT 2016
DMMUNICATIONS NEW WORK PLAN	16 SEPT 2016
COMMUNICATIONS NEW WORK PLAN A	16 SEPT 2016
COMMUNICATIONS NEW WORK PLAN B & C	16 SEPT 2016
ATIONS DETAILS	16 SEPT 2016
ATIONS DETAILS	16 SEPT 2016
ATIONS SINGLE LINE DIAGRAMS	17 JUNE 2021 1
ATIONS SINGLE LINE DIAGRAMS	16 SEPT 2016
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- . DO NOT SCALE DRAWINGS; REFERENCE DIMENSIONS ON
- DRAWINGS AND FIELD VERIFY ALL MEASUREMENTS. 2. UNLESS NOTED OTHERWISE, DIMENSIONS ARE TO FACE OF
- STUD, COLUMN CENTERLINE, OR FACE OF EXISTING FINISH. 3. UNLESS NOTED OTHERWISE, ALL NEW WORK WHICH EXTENDS OR INFILLS EXISTING WORK SHALL ALIGN WITH
- AND MATCH EXISTING CONDITIONS. 4. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS 2x6 BLOCKING OR 18ga GALVANIZED METAL STRAPPING FOR ALL
- HANDRAILS, GRAB BARS, OTHER ACCESSORIES, FIXTURES, BRACKETS, GFCI ITEMS AND MISCELLANEOUS SPECIALTIES. 5. ALL WALL MOUNTED CABINETS, WALL MOUNTED TV's, AND
- MONITORS SHALL HAVE WOOD BLOCKING BETWEEN STUDS FOR INSTALLATION. 6. DUE TO MANUFACTURER'S VARIATION WITH SIZE OF
- EQUIPMENT, CASEWORK, PLUMBING FIXTURES, ETC., ALL DIMENSIONS REFERRING TO THE SPACE WHERE SUCH ITEMS ARE BUILT-IN SHALL BE VERIFIED WITH THE ITEM SUPPLIED.
- ALL DISCREPANCIES OR CONFLICTING INFORMATION BETWEEN EXISTING CONDITIONS, CONSTRUCTION DRAWINGS, AND SPECIFICATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER FOR RESOLUTION BEFORE COMMITTING TO WORK OUTLINED.
- 3. KEYNOTE NUMBERING SEQUENCE FOUND ON ONE SHEET IS INDEPENDENT FROM OTHER SHEETS IN THE SET.

SCOPE OF WORK

SCOPE OF WORK FOR THIS PROJECT IS DIVIDED INTO TWO SEPERATE SUB-PROJECTS:

FTEV 12-1164-A SCOPE INCLUDES AN ADDITION OF 1,929 SF FOR THE EXPANSION OF EXISTING KITCHEN AND ADMINISTRATIVE OFFICE SPACES. SITE AND LANDSCAPE COMPONENTS WILL BE MODIFIED TO ACCOMODATE THE NEW ADDITION, INCLUDING PROVISIONS FOR ACCESS CONTROL TO THE ADJACENT EMPLOYEE PARKING AREA AND RE-CONFIGURATION OF THE EXISTING DUMPSTER ENCLOSURE. EXTENSION OF NEW AND EXISTING BUILDING INFRASTRUCTURE AND SITE UTILITIES WILL BE PROVIDED TO SUPPORT THE NEW ADDITION.

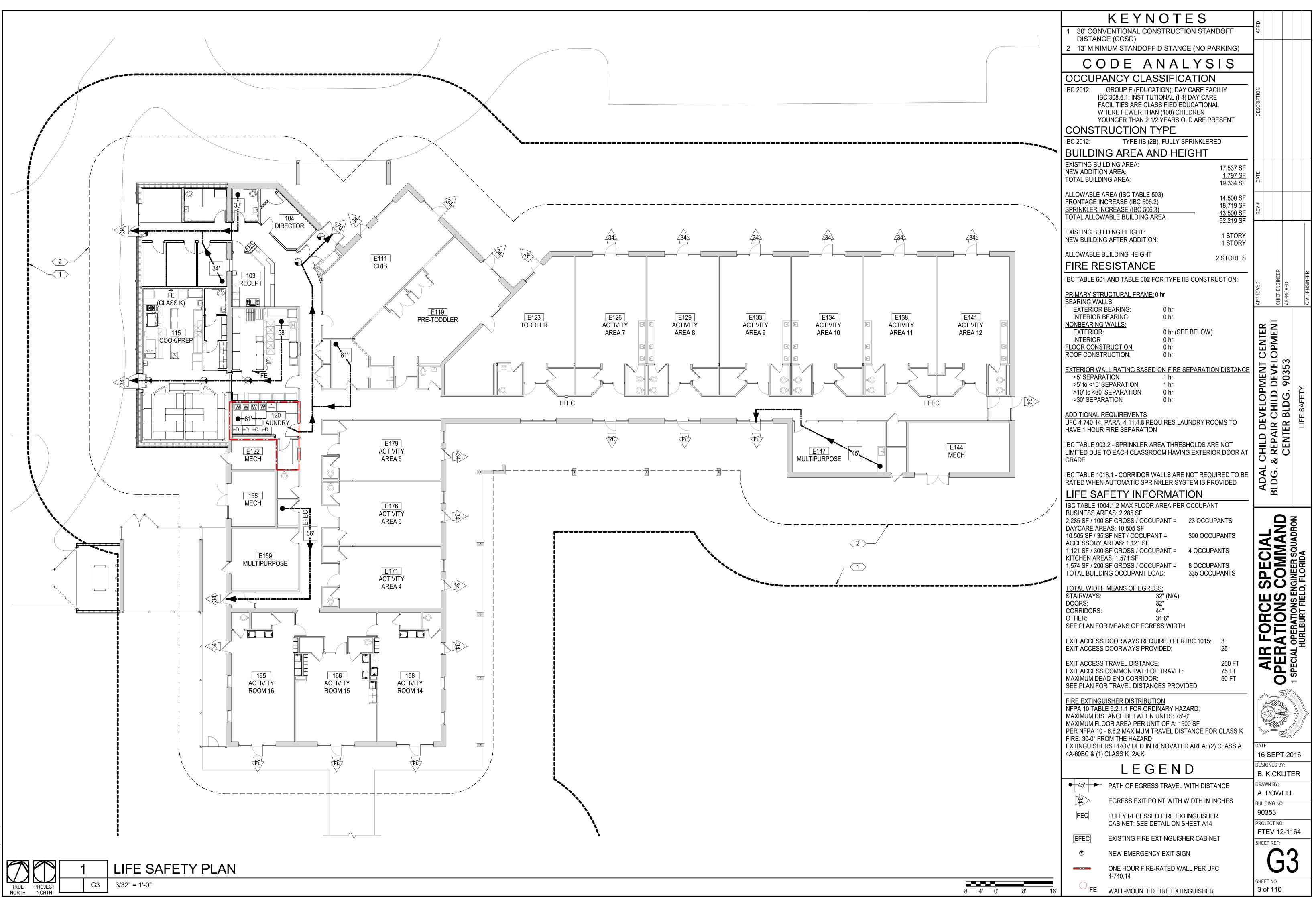
FTEV 12-1164-B SCOPE INCLUDES RENOVATION OF SELECT EXISTING SPACES AND REPLACEMENT OF BUILDING SYSTEMS. RENOVATION SCOPE INCLUDES THE EXPANSION OF THE LAUNDRY ROOM AND REORGANIZATION OF ADMINISTRATIVE AND KITCHEN SPACES ADJACENT TO THE NEW ADDITION. NEW CASEWORK AND CEILINGS WILL BE PROVIDED IN ACTIVITY ROOMS 14, 15, AND 16, AS WILL MINOR ROOM UPGRADES TO FOUR TOILET AREAS LOCATED IN BUILDING 90357; ALSO KNOWN AS "CDC ANNEX". BUILDING SYSTEMS REPLACEMENT INCLUDES THE REMOVAL AND REPLACEMENT OF AIR HANDLER UNITS, BOILERS, PUMPS AND OTHER SUPPORTING MECHANICAL DEVICES AND ASSOCIATED SYSTEMS FOR THE ENTIRE BUILDING. EXISTING, ISOLATED MECHANICAL SYSTEMS THAT SUPPORT ACTIVITY ROOMS 14, 15, AND 16 WILL ALSO BE REMOVED AND THE EXISTING BUILDING'S DISTRIBUTION SYSTEM WILL BE EXTENDED AND SUPPLEMENTED TO SUPPORT THESE SPACES.

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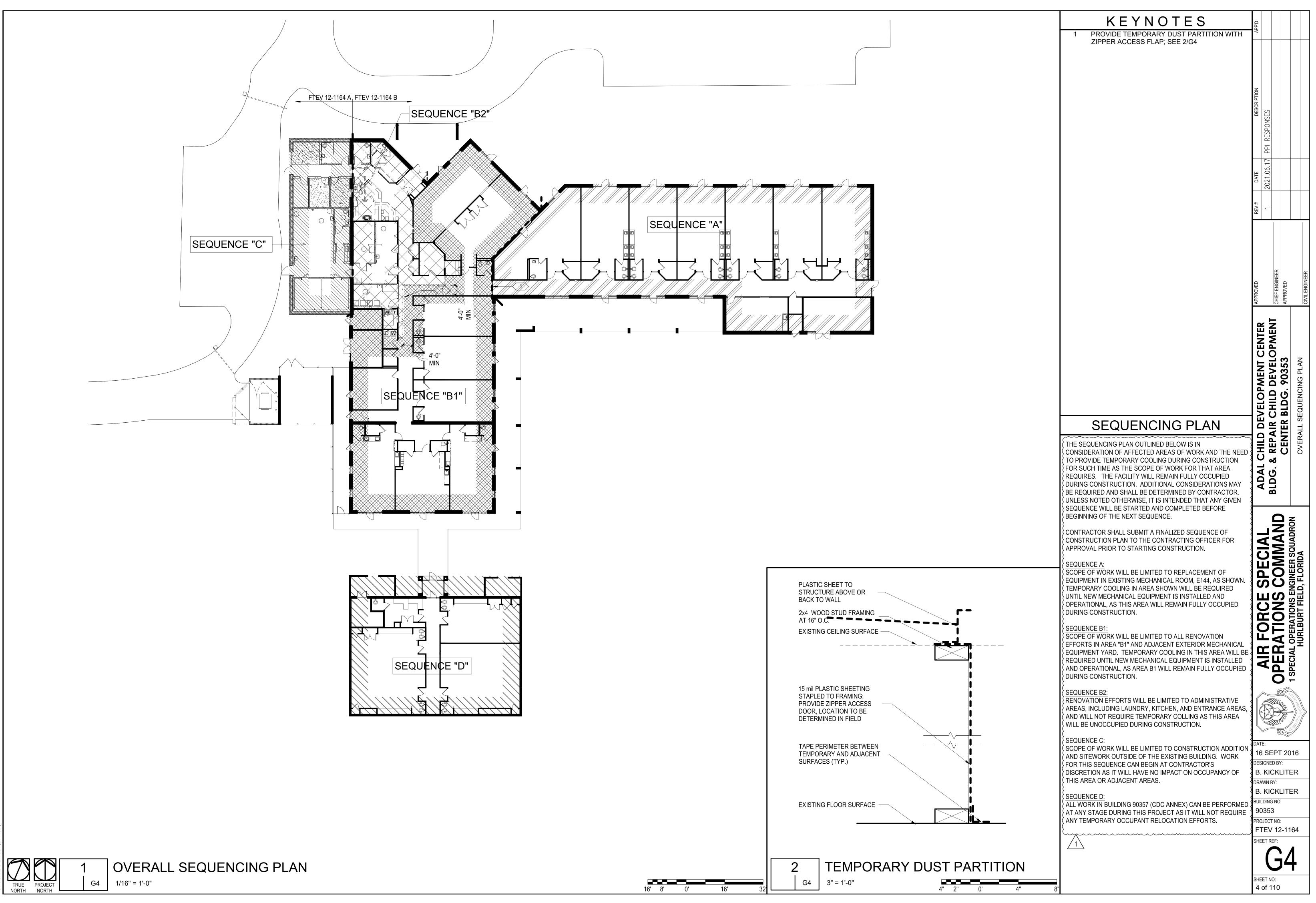
AFF AFG ACOUS ADJ AL AB APPROX BD BLDG BLK BM BOD CB CDS CFCI CG CJ CMU CEM CLG CONST CONST CONST CONST CONST DBL DTL DIA DIA DIA DIA DIA DIA S DWGS EA EF EL	ABON ABON ACOU ADJU ALUM ANCH BOAF BOAF BUILE BLOC BEAM BOTT CATC CONT CONT CONT CONT CONT
CLM CLG COL CONC CONST CONT DBL DTL DIA DIAG DIM DS DWGS EA EF EL ELECT EQ EQUIP	CENT CEILI COLU CON CON CON DOUE DETA DIAM DIAG DIAM DIAG DOW DRAV EACH EXHA ELEV ELEC EQUA

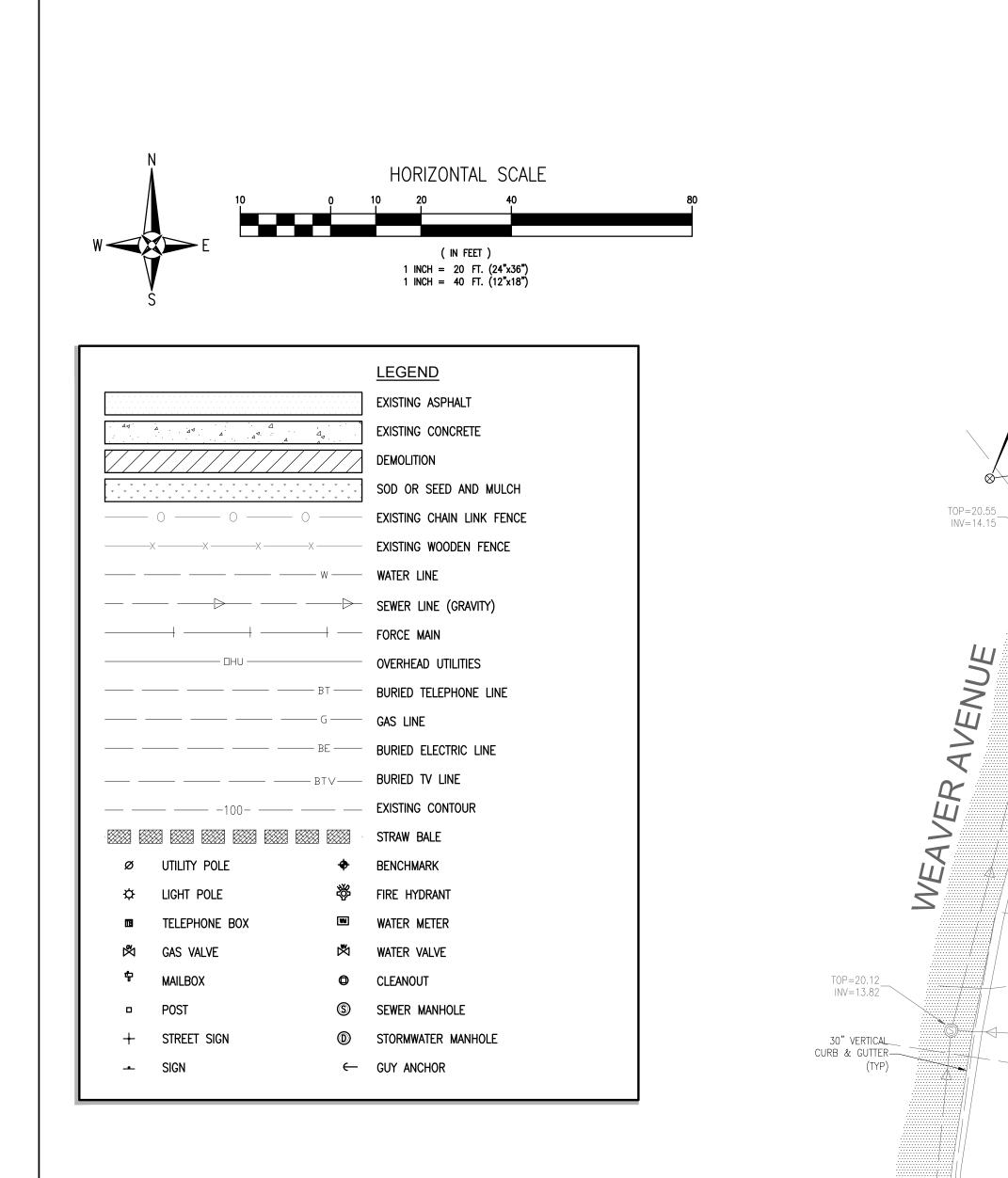
PROJECT TEAM		Q.J.J.
ARCHITECTCIVILCALDWELL ASSOCIATES ARCHITECTS, INCREBOL-BATTLE INC.H. MILLER CALDWELL, JR., RAPAUL BATTLE, PE116 NORTH TARRAGONA STREET214 EAST CHURCH STREETPENSACOLA, FLORIDA 32501PENSACOLA, FLORIDA 32502(850) 439-6576 phone(850) 438-0400 phone(850) 438-6537 faxCIVIL	MECHANICAL/PLUMBING/FIRE PROTECTION SCHMIDT CONSULTING GROUP JOE JONES, PE 9014 WEST GARDEN STREET PENSACOLA, FLORIDA 32502 (850) 438-0050 phone (850) 432-8631 fax	
STRUCTURAL JOE DEREUIL ASSOCIATES, LLC JOSH GREENWELL, PE 301 WEST CERVANTES STREET PENSACOLA, FLORIDA 32502 (850) 429-1951 phone	ELECTRICAL SCHMIDT CONSULTING GROUP TODD NICHOLSON, PE 9014 WEST GARDEN STREET PENSACOLA, FLORIDA 32502 (850) 438-0050 phone (850) 432-8631 fax	.17 PPI RESPONSES
		DATE 2021.06.1
SYMBOLS LEGEN	ID	T 4
EXTERIOR ELEVATION DETAIL NUMBER	KEYNOTE ROOM IDENTIFICATION; SEE ROOM	
SHEET DRAWN ON ROOMPNAME	FINISH SCHEDULE	
	DOOR IDENTIFICATION; SEE DOOR SCHEDULE	缶
A101 DETAIL NUMBER AAA SHEET DRAWN ON	WINDOW OR LOUVER IDENTIFICATION; SEE WINDOW SCHEDULE	APPROVED CHIEF ENGINEER APPROVED
	PARTITION TYPE; SEE WALL TYPES	APPI APPF
	ELEVATION	ENT
SHEET DRAWN ON C PRIVATE CALLOUT C PRIVATE CALLOUT	NORTH ARROW	CENTER OPMEN
DETAIL NUMBER Af01 DETAIL NUMBER Af01 SHEET DRAWN ON ()	A REVISION SYMBOL AND BUBBLE	MENT DEVEL 90353
	- DETAIL NUMBER	DEVELOF IR CHILD ER BLDG.
8'4'0' 8' 16'	— GRAPHIC SCALE BAR — SHEET DRAWN ON — SHEET OF FIRST REFERENCE	ADAL CHILD D BLDG. & REPAIF CENTEI SYMBOLS
ABBREVIATION	S	<u> </u>
AFFABOVE FINISHED FLOOREXISTEXISTINGAFGABOVE FINISHED GRADEEXPEXPANSIONACOUSACOUSTICALEXTEXTERIORADJADJUSTABLEFNDFOUNDATIONALALUMINUMFFEFINISH FLOOR ELEVATIONABANCHOR BOLTFINFINISHAPPROXAPPROXIMATELYFLRFLOORBDBOARDFLUORFLUORESCENTBLGBUILDINGFTFOOTBLKBLOCKFTGFOOTINGBMBEAMFPFILLER PANELBODBOTTOM OF DECKFVFIELD VERIFYCBCATCH BASINGAGAUGECDSCONCRALED DOWNSPOUTGALVGALVANIZEDCFCICONTRACTOR FURNISH,GENGENERALCONTRACTOR INSTALLEDGYPGYPSUM BOARDCJCONTROL JOINTHMHOLLOW METALCMUCONCRETE MASONRY UNITHORIZHORIZONTALCGCEILINGINSULINSUL INSULATIONCOLCOLUMNINTINTERIORCONTCONTRUCTIONLAWLAVATORYDBLDOUBLELT WTLIGHT WEIGHTDTLDETAILMOMASONRY OPENINGDIADIAMETERMANUFMANUFACTURERDIADIAMETERMANUFMANUFACTURERDIADIAMETERMANUFMANUFACTURERDIADIAMETERMANUFMANUFACTURERDIADIAMETERMANUFMANUFACTURERDIA	OPNGOPENINGOVHOVERHANGPTPLATEPLYWDPLYWOODRRADIUSROROUGH OPENINGREINFREINFORCEDREQDREQUIREDRETRETAININGRMROOMSCSCUPPERSCHEDSCHEDULESECTSECTIONSHTSHEETSIMSIMILARSPECSPECIFICATIONSQSQUARESQ FTSQUARE FOOTSTSTANDARDSTLSTEELSTRUCTSTRUCTURALSUSPSUSPENDEDTBBTILE BACKER BOARDT>OP OF GRADETOTOP OFTODTOP OF SLABTOWTOP OF SLABTOWTOP OF WALLTELTELEPHONETYPTYPICALVIFVERIFY IN FIELDVTRVENT THROUGH ROOFWWFWELDED WIRE FABRICWDWOODXPTEPOXY PAINT	A COMMANC A COMMANC A COMMANC A COMMANC DESIGNED BY: B. KICKLITER HURTBURT FIELD, FLORIDA M. BURCH

SHEET NO: 2 of 110



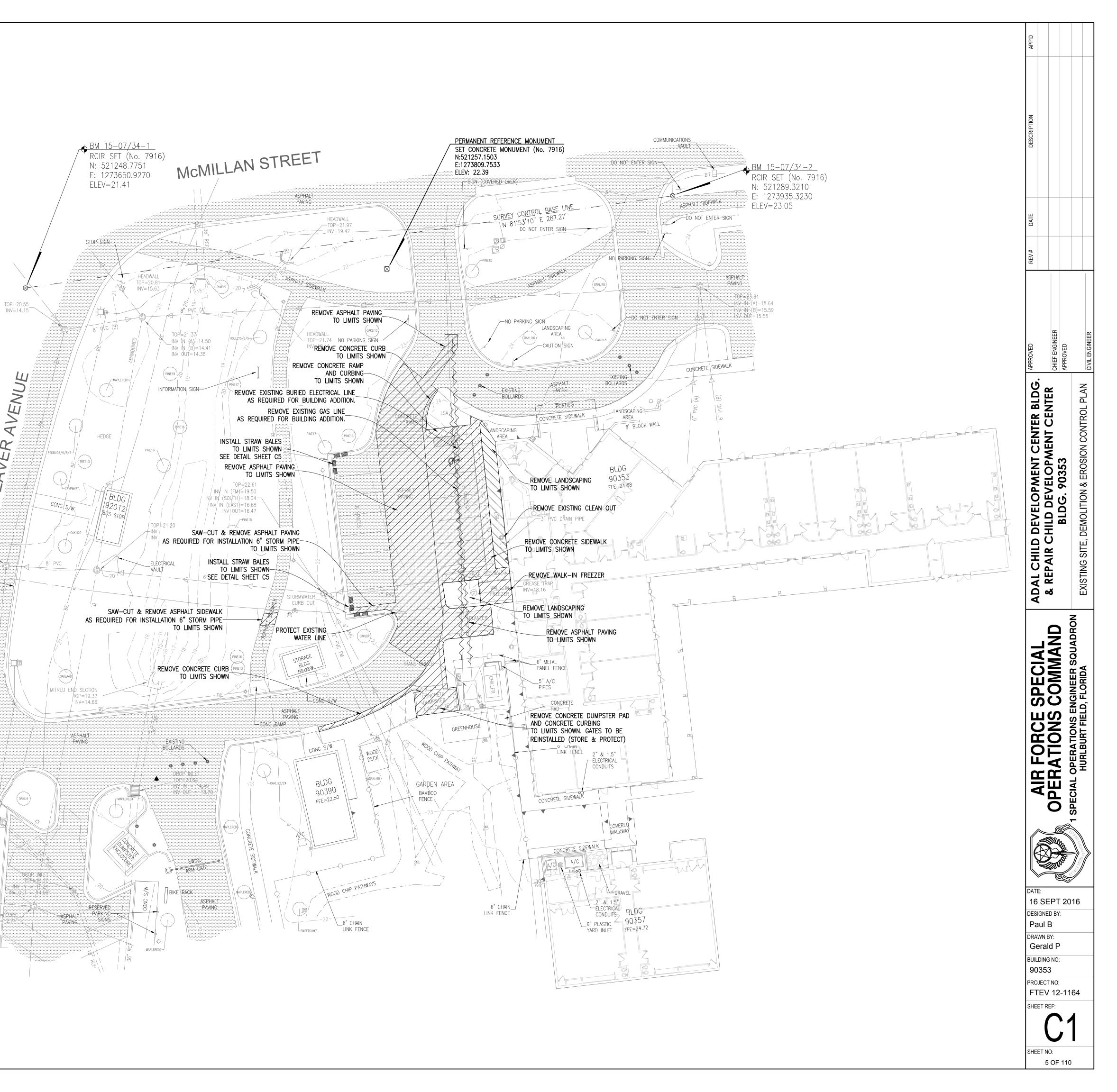
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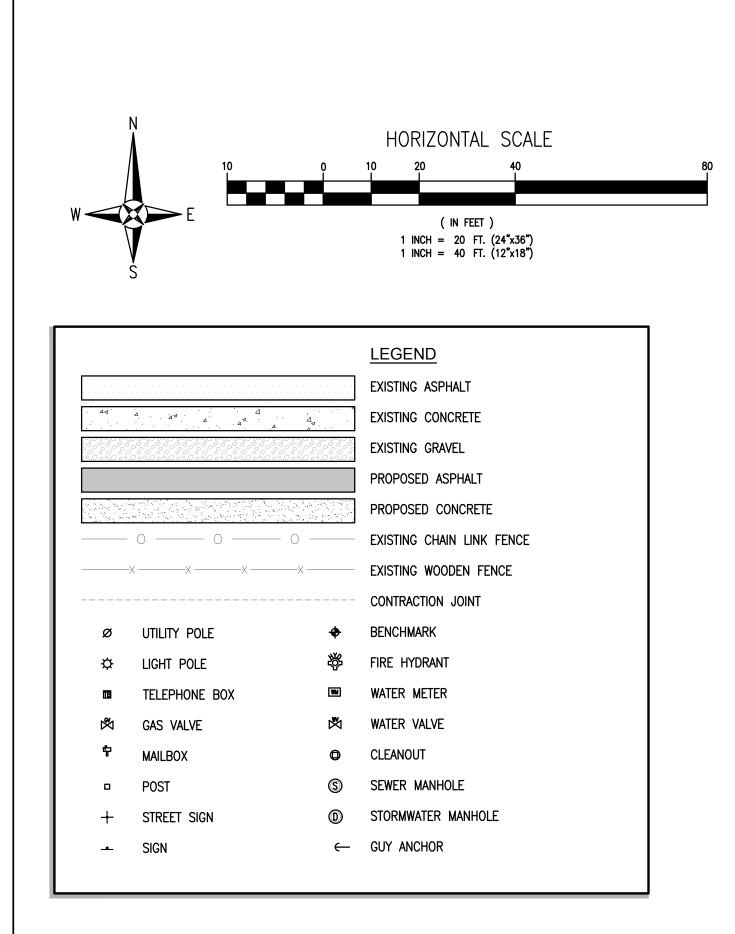


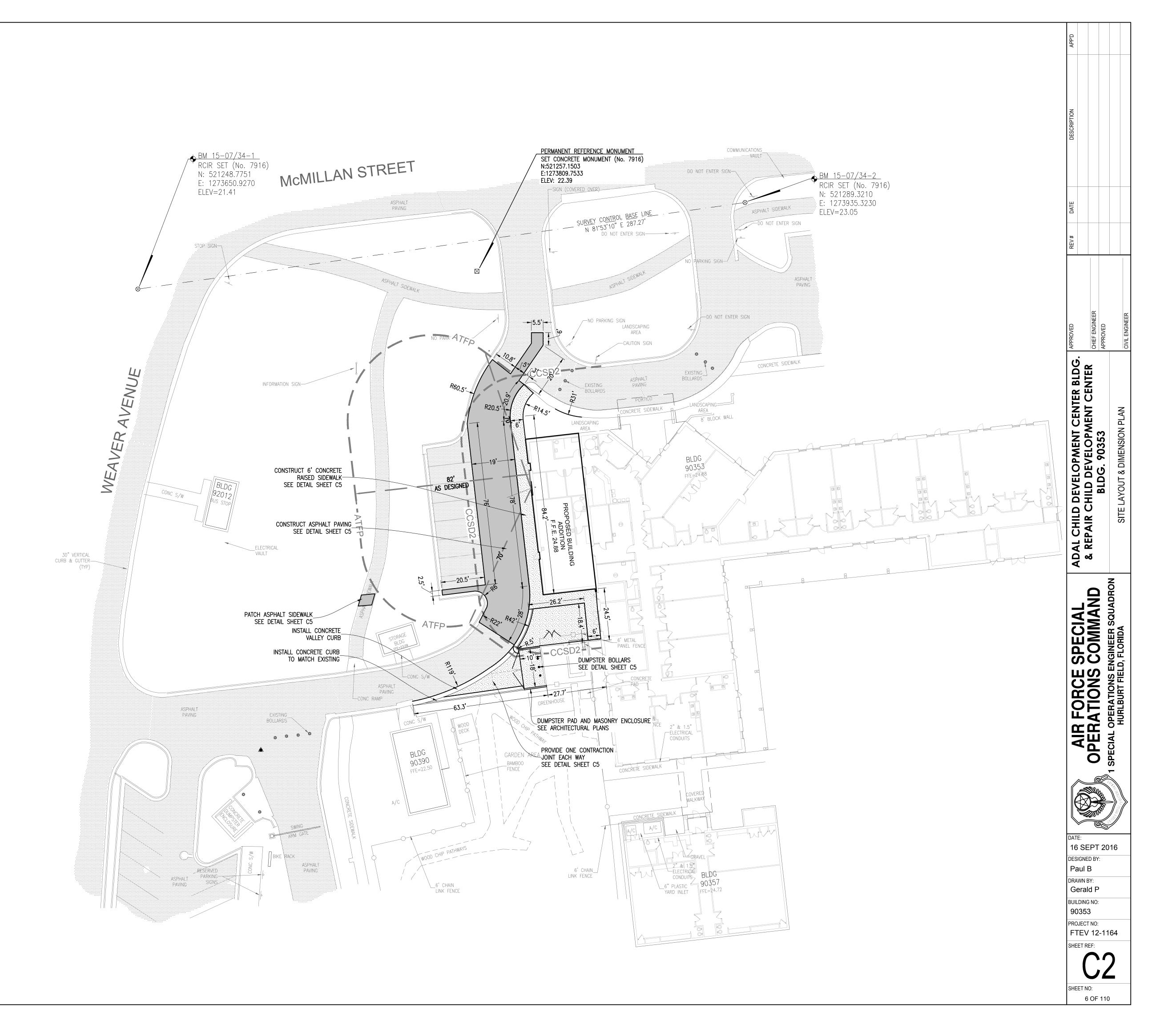


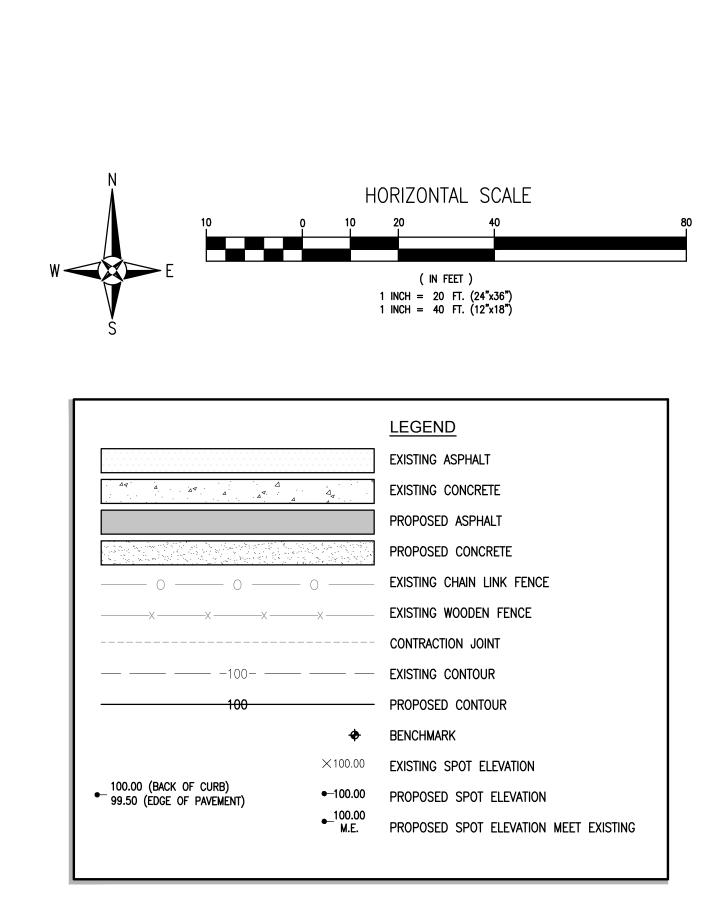
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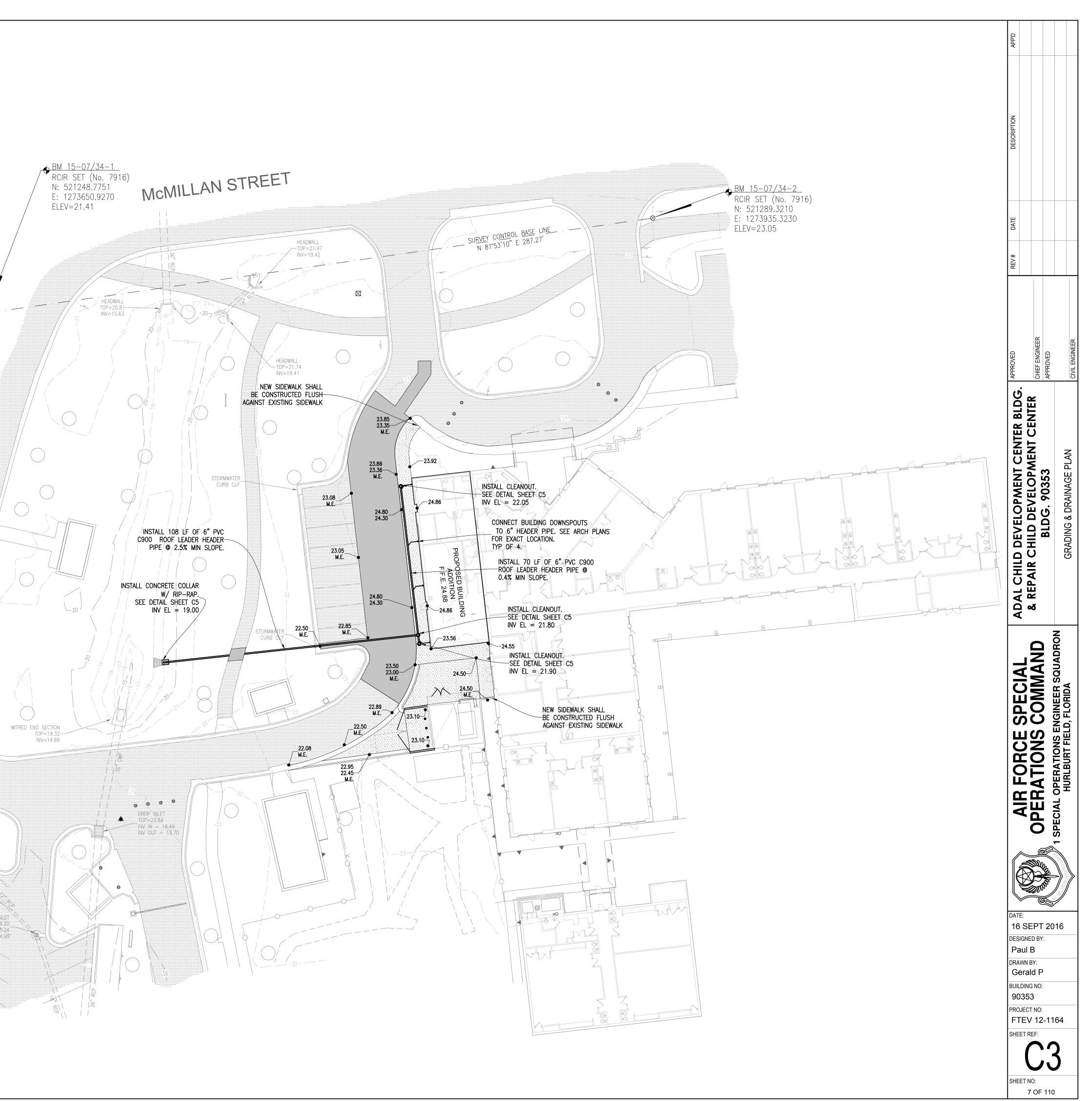


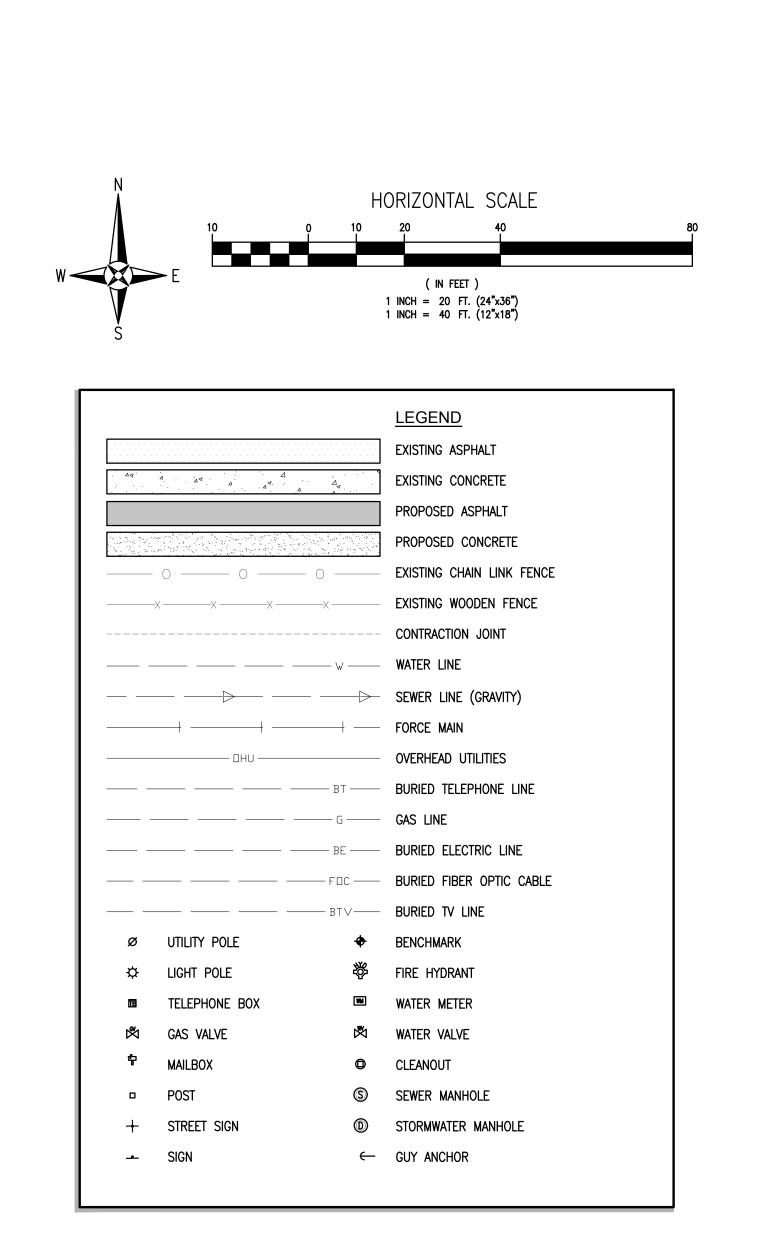


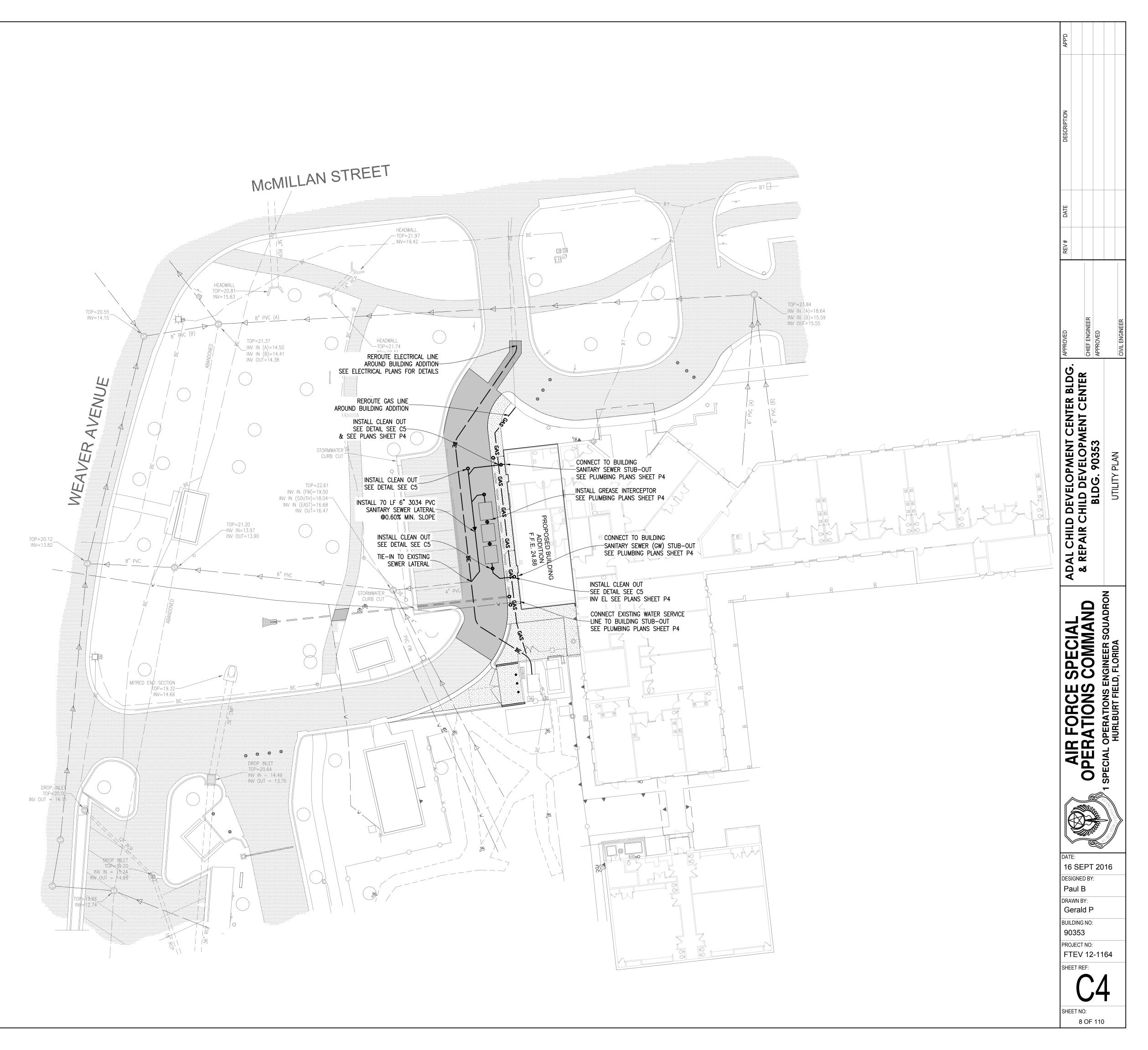


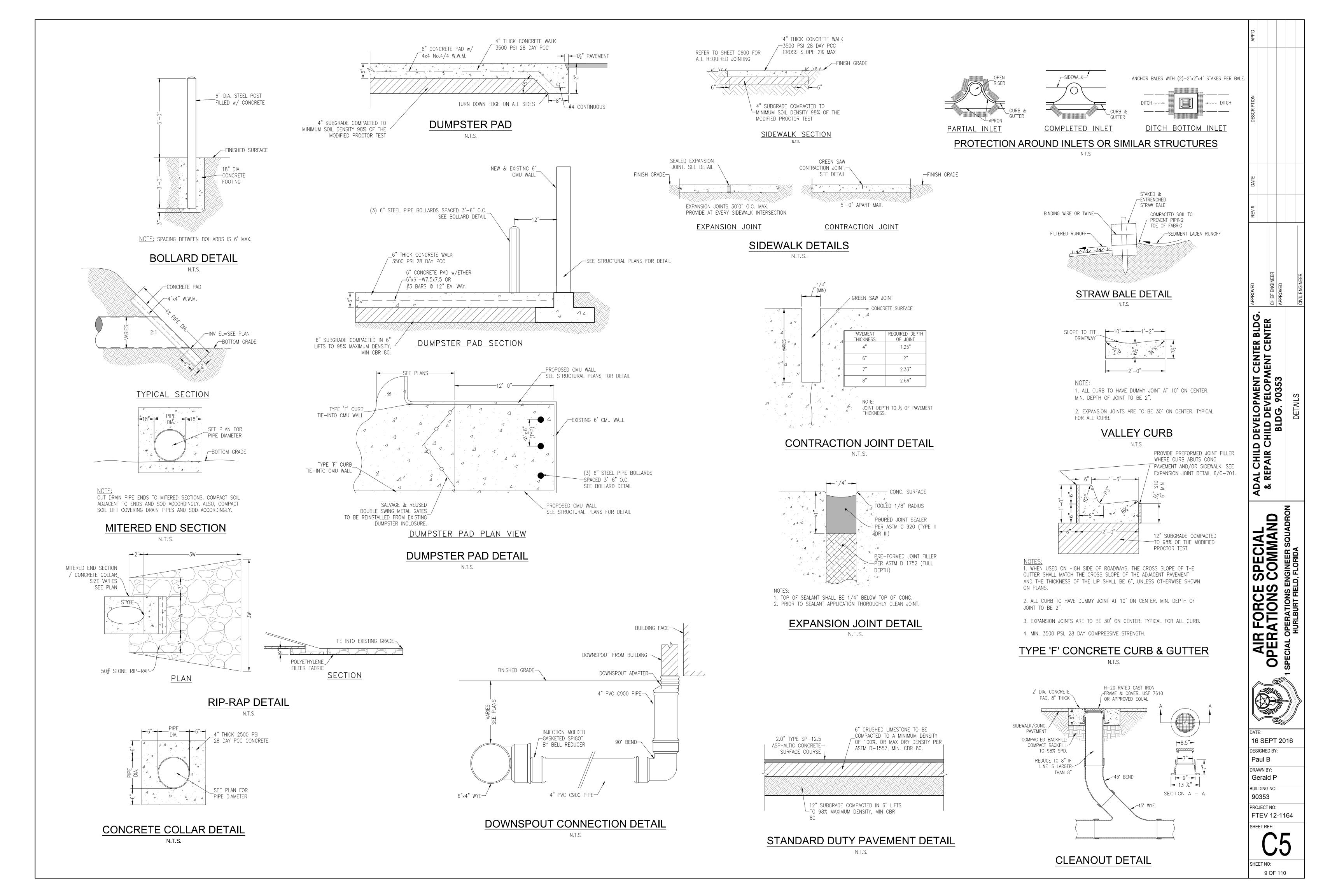


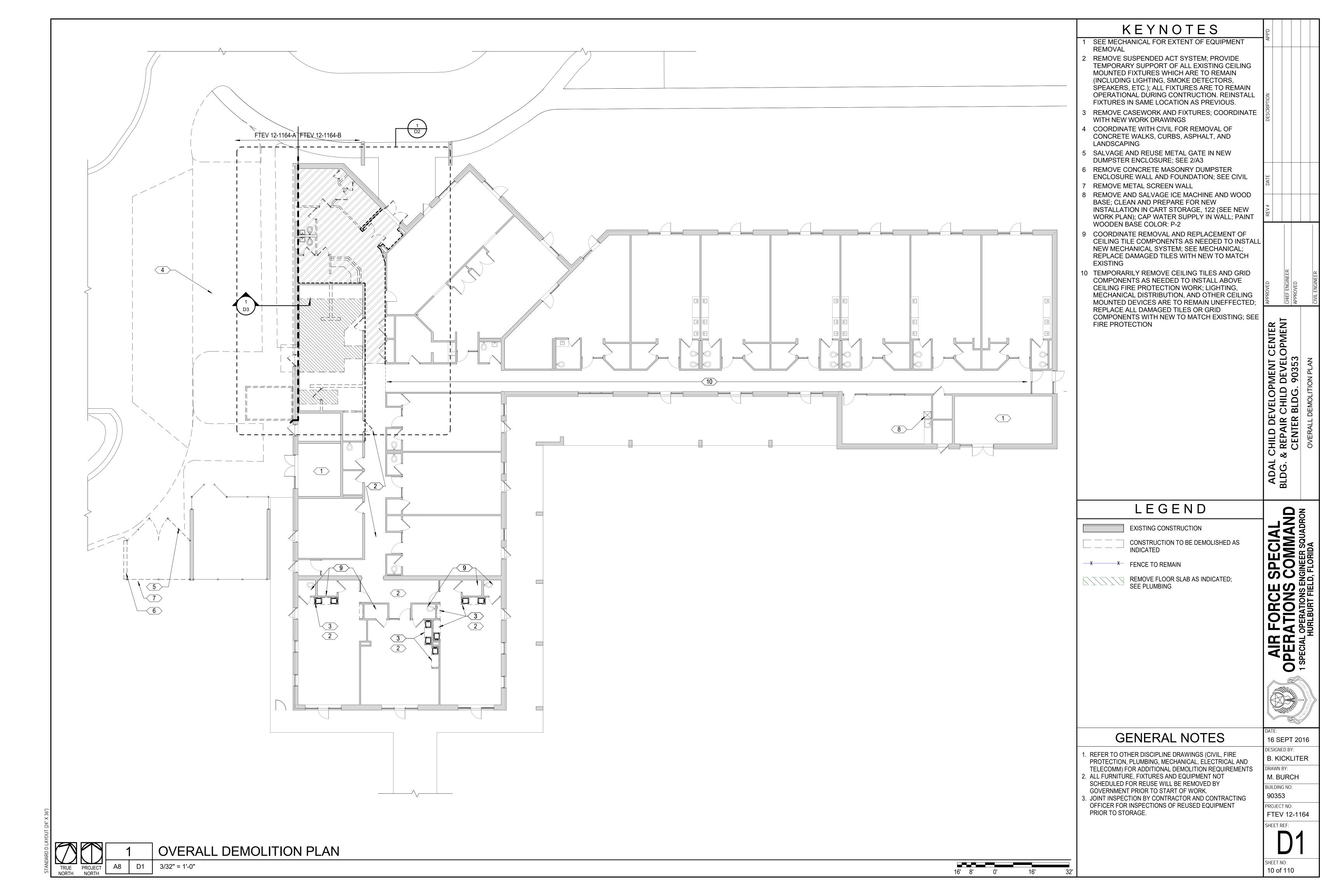
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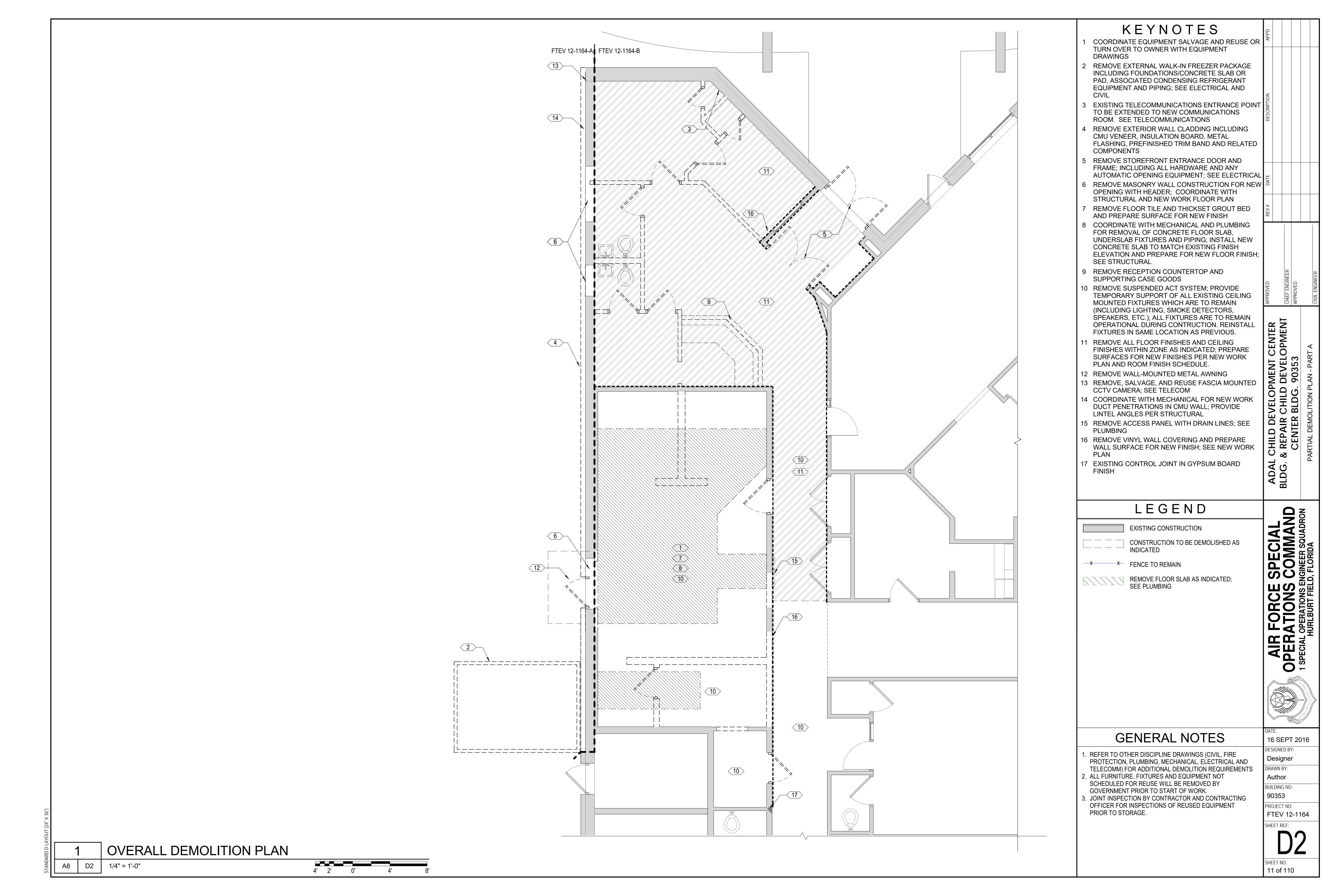


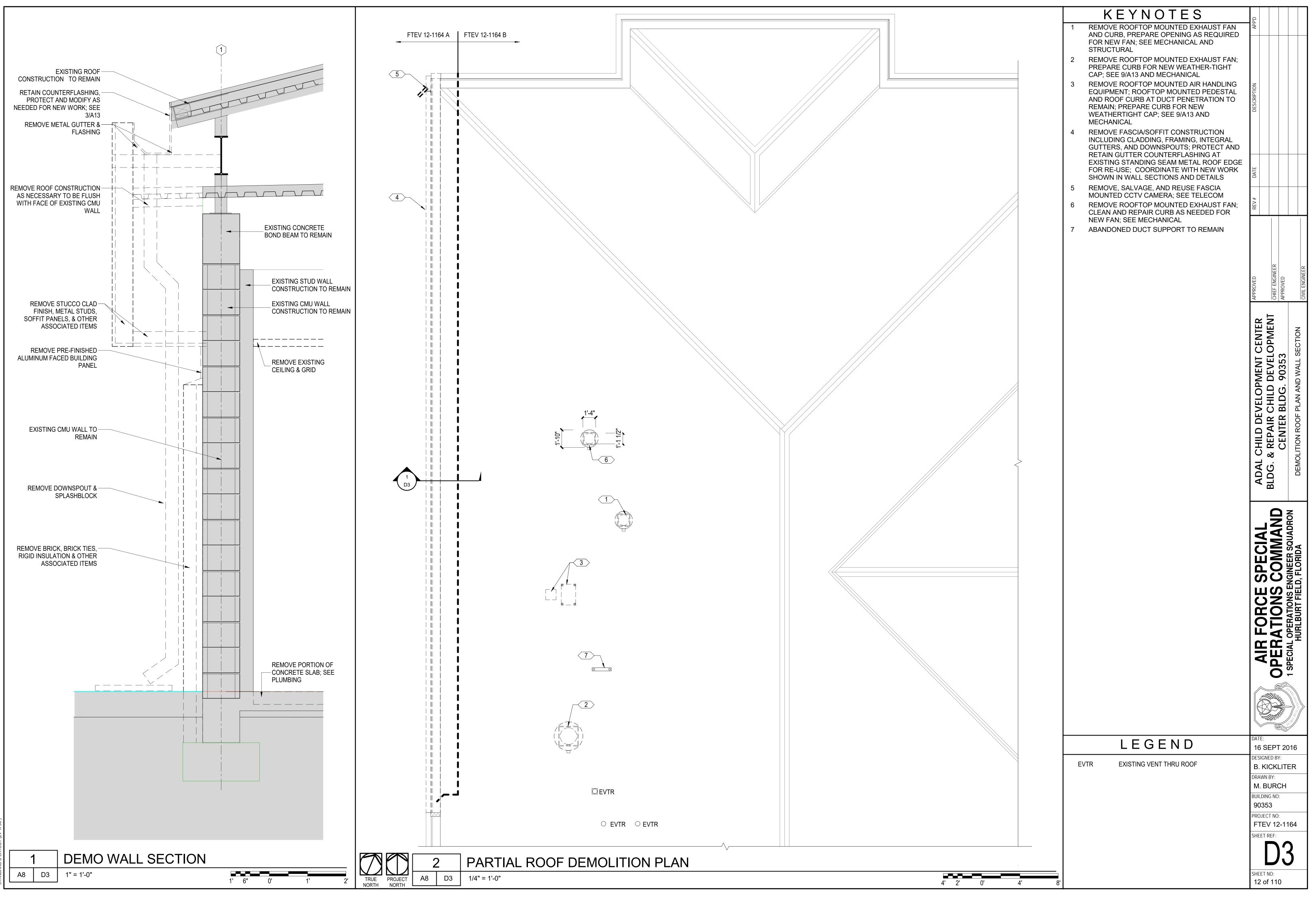












1.00 <u>GENERAL NOTES</u>

1.01 DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.

1.02 VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCY.

1.03 THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. TAKE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING STRUCTURE AND ITS FOUNDATION AND TO LIMIT, TO THE EXTENT POSSIBLE, THE EFFECTS OF CONSTRUCTION THAT THE NEW STRUCTURE HAS ON THE EXISTING STRUCTURE.

1.04 COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL. NOTIFY STRUCTURAL ENGINEER OF ANY CONFLICT AND/OR OMISSION. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS.

1.05 DESIGN CRITERIA:

THE STRUCTURE HAS BEEN DESIGNED UTILIZING THE FOLLOWING REFERENCES:

- A. UFC 1-200-01, GENERAL BUILDING REQUIREMENTS
- UFC 3-301-01, STRUCTURAL ENGINEERING, WITH CHANGE 1
- C. UFC 3-310-04, SEISMIC DESIGN FOR BUILDINGS WITH CHANGE 1
- D. UFC 4-010-01, DOD MINIMUM ANTITERRORISM STANDARD FOR BUILDINGS, INCLUDING CHANGE 1
- . INTERNATIONAL BUILDING CODE, 2015
- F. ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURESG. ACI 318-11, BUILDING CODE REQUIREMENTS FOR CONCRETE STRUCTURES
- H. ACI 360 R-06, DESIGN OF SLAB ON GRADES
- I. AISC STEEL CONSTRUCTION MANUAL 14TH EDITION
- J. ACI 530-05, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
- 1.06 DESIGN LOADS
 - A. DEAD LOAI
 - DEAD LOADS: 1. MECHANICAL, ELECTRICAL, PLUMBING: 5 PSF
 - 2. CEILINGS: 5 PSF
 - 3. ROOF FRAMING: 20 PSF
 - B. LIVE LOADS: (MAY BE REDUCED PER CODE)1. ROOFS: 20 PSF
 - SLAB-ON-GRADE: 100 PSF
 - C. WIND LOADS STRUCTURE HAS BEEN DESIGNED TO CONFORM TO THE WIND PROVISIONS OF ASCE 7-10. SEE WIND PRESSURE DIAGRAM & CHART FOR THE FOLLOWING:
 - 1. BASIC WIND SPEED (3-SEC GUST)
 - 2. BUILDING RISK CATEGORY
 - WIND EXPOSURE CATEGORY
 INTERNAL PRESSURE COEFFICIENT
 - 5. COMPONENT & CLADDING WIND PRESSURES
 - D. EARTHQUAKE LOADS:
 - 1. SEISMIC IMPORTANCE FACTOR (le): 1.25
 - . RISK CATEGORY: III
 - SEISMIC DESIGN CATEGORY: B
 MAPPED SPECTRAL RESPONSE ACCELERATIONS & PARAMETERS
 - Ss = 0.080q Sds = 0.085q
 - S1 = 0.050g Sd1 = 0.080g
 - SITE CLASSIFICATION: D
 - 6. BASIC SEISMIC-FORCE-RESISTING SYSTEM: ORDINARY REINFORCED MASONRY SHEARWALLS
 - 7. DESIGN BASE SHEAR: 5.7 KIPS
 - 8. SEISMIC RESPONSE COEFFICIENT, Cs = .029
 - 9. RESPONSE MODIFICATION FACTOR(S): 2.0
 - 10. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE

REFER TO MEP DWGS FOR SEISMIC SUPPORT AND ATTACHMENT REQUIREMENTS FOR CERTAIN MEP COMPONETS AS PER THE IBC.

1.07 SUBMITTALS:

A. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE CONTRACTING OFFICER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE CONTRACTING OFFICER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

2.00 FOUNDATIONS AND SLAB-ON-GRADE

2.01 THE DESIGN OF FOUNDATIONS, RETAINING WALLS AND SLAB ON GRADE IS BASED ON THE CRITERIA ESTABLISHED IN THE GEOTECHNICAL REPORT BY NOVA ENGINEERING AND ENVIRONMENTAL, PENSACOLA, FLORIDA; FILE #8215080, DATED JULY 16, 2015. THE RECOMMENDATIONS OF THAT REPORT SHALL BE CONSIDERED AN INTEGRAL PART OF THE CONTRACT DOCUMENTS.

2.02 SHALLOW FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.

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

2.04 SIDES OF FOUNDATIONS SHALL BE FORMED. SLOPE SIDES OF EXCAVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.

2.05 CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY PROTECTING ALL EXCAVATION SLOPES.

2.06 DEWATER TO AT LEAST TWO FEET BELOW BOTTOM OF LOWEST FOUNDATION IF GROUNDWATER IS ENCOUNTERED.

2.07 SLAB-ON-GRADE REQUIREMENTS:

A. THE SLAB-ON-GRADE SHALL BE A MINIMUM OF 6 INCHES THICK, PLACED ON COMPACTED SUBGRADE, AND REINFORCED WITH #3@12".

B. SUBGRADE SHALL BE PREPARED AS RECOMMENDED IN THE GEOTECHNICAL REPORT. IN THE ABSENCE OF A GEOTECHNICAL REPORT, PROVIDE TYPE D FILL, 8 INCHES THICK BELOW THE BOTTOM OF THE FLOOR SLABS AND FOOTINGS COMPACTED TO 100% OF THE MAXIMUM MODIFIED PROCTOR DENSITY. DENSITY TESTS SHALL BE TAKEN AT 1000 SF INTERVALS. SEE SPECIFICATIONS AND REPORT (IF AVAILABLE).

C. PROVIDE A CAPILLARY BREAK CONSISTING OF A COMPACTED 4" LAYER OF CLEAN #57 STONE OVER THE COMPACTED SUBGRADE.

D. SEE SPECIFICATIONS FOR VAPOR RETARDER MATERIAL. VAPOR RETARDER SHALL CONFORM TO ASTM E1745, CLASS A, B, OR C AND BE A MINIMUM OF 15 MIL THICKNESS. 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.

3.00 REINFORCED CONCRETE

3.01 ALL CONCRETE WORK SHALL CONFORM TO ACI 301-05, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. DESIGN IS BASED ON ACI 318-05, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315, DETAILING MANUAL. DETAIL ALL CONCRETE WALLS AND BEAMS ON THE SHOP DRAWINGS IN ELEVATION UNLESS SPECIFICALLY APPROVED OTHERWISE. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

3.02 PLACE SAWN CONTROL JOINTS IN THE SLAB ON GRADE AT LOCATIONS INDICATED BY "S.C.J." SEE SPECS FOR SAW CUTTING CONTROL JOINTS UNDER THE HEADING "INTERIOR LONGITUDINAL CONTRACTION JOINT".

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

A.FOUNDATIONS3000 PSIB.SLAB-ON-GRADE3000 PSI

ALL CONCRETE SHALL HAVE ENTRAINED AIR, U.N.O. CONCRETE MAY CONTAIN A PROPERLY DESIGNED SUPERPLASTICIZER FOR WORKABILITY.

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

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

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

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

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

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

3.10 REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE (PER ACI 318-05 PAR.7.7.1):

- A. CONCRETE AGAINST EARTH (NOT FORMED): 3"
- B. FORMED CONCRETE EXPOSED TO THE EARTH OR WEATHER:
- 1. #6 THROUGH #18 BARS: 2"
- 2. #5 BARS AND SMALLER: 1-1/2"
- C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
- SLABS AND WALLS: 1"
 BEAMS (STIRRUPS) AND COLUMNS (TIES): 1-1/2"

3.11 DO NOT PLACE DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.

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

3.13 ALL REINFORCING STEEL PLACEMENTS SHALL BE REVIEWED BY THE CONTRACTING OFFICER, OR BY A REPRESENTATIVE RESPONSIBLE TO HIM. (RE: ACI 318 PAR. 1.3.1)

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

4.00 STRUCTURAL STEEL, STEEL

4.01 STRUCTURAL STEEL SHALL B FOR STRUCTURAL STEEL BUILDINGS

4.02 SUBMIT SHOP DRAWINGS PRE CONSTRUCTION", LATEST EDITION. S BEGIN FABRICATION UNTIL SHOP DR

4.03 STRUCTURAL STEEL WIDE FLA PLATES, ANGLES, AND CHANNELS SH SHALL CONFORM TO ASTM A500, GR/ ASTM A501 OR ASTM A53, TYPE E OR OTHERWISE.

4.04 BOLTS SHALL CONFORM TO A BEARING CONNECTIONS SHALL BE D MOMENT CONNECTIONS AND IN TRUS CONNECTIONS WITH DIRECT TENSIO INSTRUCTION.

4.05 USE PRE-QUALIFIED WELDED CERTIFIED WELDERS; ALL ELECTROE FLUX SHALL CONFORM TO AWS A5, F

4.06 CUTS, BOLTS, COPING, ETC. F DRAWINGS AND MADE IN THE SHOP. BE PERMITTED.

4.07 SHOP CONNECTIONS NOT SPI CONNECTIONS NOT SPECIFICALLY D

4.08 WHEN SPECIFICALLY NOT DE CONNECTIONS:

A. USE TWO-SIDE ANGLE CONNE
B. WHERE BEAM REACTIONS AR
C. WHEN BEAM REACTIONS ARE
TOTAL UNIFORM LOAD CAPACITIES S
FOR THE GIVEN BEAM, SPAN, AND GF
D. WHERE REACTIONS ARE SUB.

4.09 FIELD SPLICES SHALL BE DES BENDING, SHEAR AND AXIAL LOAD (C

4.10 ALTERNATE CONNECTION DE REVIEW AND ACCEPTANCE IS GRANT AND THE CONTRACTOR'S BID SHALL ANY EVENT, THE CONTRACTOR SHAL PROPOSES.

4.11 PROVIDE STIFFENER PLATES LOADS. MINIMUM STIFFENER PLATE WHICHEVER IS THICKER.

4.12 FILLER BEAMS OR JOISTS SHO ON THE DRAWINGS.

4.13 PROVIDE TEMPORARY BRACII PERMANENT BRACING MOMENT CON INSTALLED.

4.14 STRUCTURAL DRAWINGS SHA AND DRAWINGS RELATED TO OTHER DIMENSIONS, CLEARANCES, ETC. WIT PROVIDE FRAMING AROUND OPENING ARCHITECTURAL DRAWINGS.

4.15 THE STRUCTURAL STEEL COM AND GIRDERS FOR MECHANICAL AND 1/3 OF BEAM DEPTH. WEB REINFORC MAXIMUM OF ONE WEB OPENING IS F

4.16 STRUCTURAL STEEL CONTRA TOP OF CONCRETE ELEVATION. IN C/ MORE STRINGENT REQUIREMENTS.

4.17 PAINT STRUCTURAL STEEL IN SURFACES TO BE ENCASED IN CONC SLIP CRITICAL, OR TO BE WELDED.

	Cidde
<u>- JOIST, STEEL DECK</u> BE DETAILED, FABRICATED AND ERECTED ACCORDING TO AISC "SPECIFICATION	
GS, ASD, LATEST EDITION. REPARED IN ACCORDANCE WITH AISC MANUAL "DETAILING FOR STEEL . STEEL FABRICATOR SHALL SUPPLY ANCHOR BOLT LOCATION DRAWINGS. DO NOT DRAWINGS ARE COMPLETED AND REVIEWED.	DESCRIPTION
FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL STEEL SHAPES, SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE. STRUCTURAL TUBING RADE B, FY = 46 KSI, UNLESS NOTED OTHERWISE. STEEL PIPE SHALL CONFORM TO DR S, GRADE B. ANCHOR BOLTS SHALL CONFORM TO ASTM A36 UNLESS NOTED	DESCR
O ASTM A325, 3/4-INCH DIAMETER MINIMUM, UNLESS NOTED OTHERWISE. BOLTS IN DESIGNATED TYPE N, TENSIONED, SNUG-TIGHT AS DEFINED BY AISC. BOLTS IN RUSSES SHALL BE DESIGNATED SLIP-CRITICAL (SC). FULLY TENSION SLIP-CRITICAL ION INDICATOR WASHERS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S	DATE
ED JOINTS AS PER AISC, AND AWS D1.1 "STRUCTURAL WELDING CODE." USE ONLY ODES SHALL CONFORM TO AWS A5 GRADE E70XX. BARE ELECTRODE AND GRANULAR , F70 AWS FLUX CLASSIFICATION. MINIMUM WELD SIZE TO BE 3/16" FILLET WELD, U.N.O.	L L L L L L L L L L L L L L L L L L L
. REQUIRED FOR WORK OR OTHER TRADES SHALL BE SHOWN ON THE SHOP P. CUTS OR BURNING HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT	
SPECIFICALLY DETAILED ON THE DRAWINGS MAY BE WELDED OR BOLTED. FIELD DETAILED ON THE DRAWINGS SHALL BE BOLTED, WHERE POSSIBLE.	
ETAILED ON THE DESIGN DRAWINGS PROVIDE THE FOLLOWING BEAM	APPROVED CHIEF ENGINEER APPROVED APPROVED CIVIL ENGINEER
NECTIONS PER AISC SPECIFICATIONS, LATEST EDITION. ARE SHOWN, CONNECTIONS SHALL DEVELOP THE REACTION GIVEN. RE NOT SHOWN, CONNECTIONS SHALL BE DESIGNED TO SUPPORT ONE HALF THE S SHOWN IN THE ALLOWABLE UNIFORM LOAD TABLES, PARTS 2 OF THE AISC MANUAL, GRADE OF STEEL SPECIFIED. IBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT.	BLDG. NTER
ESIGNED TO DEVELOP THE FULL CAPACITY OF MEMBER AT THE POINT OF SPLICE IN (COMPRESSION AND TENSION).	CENTER MENT CE
DETAILS MAY BE USED IF SUCH DETAILS ARE SUBMITTED TO THE ENGINEER FOR NTED. HOWEVER, THE ENGINEER SHALL BE THE SOLE JUDGE OF ACCEPTABILITY .L ANTICIPATE THE USE OF THE SPECIFIC DETAILS SHOWN ON THE DRAWINGS. IN ALL BE RESPONSIBLE FOR THE DESIGN OF SUCH ALTERNATE DETAILS, WHICH HE	DEVELOPMENT CEN HILD DEVELOPMENT BLDG. 90353 GENERAL NOTES
ES ON EACH SIDE OF WEB OF BEAM OR GIRDER AT POINTS OF CONCENTRATED E THICKNESS SHALL BE 1/2" OR FLANGE THICKNESS OF COLUMNS ABOVE OR BELOW,	D DEVE BLD GEN
HOULD BE SPACED EQUALLY BETWEEN THE COLUMNS IF NOT SHOWN OTHERWISE	CHIL
CING OF STRUCTURAL FRAMING TO PROVIDE LATERAL SUPPORT UNTIL ALL DNNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY	ADAL & RE
HALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS ER TRADES. CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND COORDINATE WITH THE WORK OF OTHER TRADES. THE STRUCTURAL STEEL CONTRACTOR SHALL INGS IN FLOOR AND ROOF SLAB AS INDICATED IN THE MECHANICAL AND	IAL MAND squadron
ONTRACTOR SHALL PROVIDE WEB REINFORCEMENT AT OPENINGS IN STEEL BEAMS ND ELECTRICAL PENETRATIONS. WEB OPENINGS SHALL BE LOCATED IN THE MIDDLE RCEMENT IS NOT REQUIRED FOR WEB OPENINGS LESS THAN 4" DIAMETER OR 3" X 3". A S PERMITTED FOR EACH BEAM NOT HAVING WEB REINFORCEMENT.	SPEC COM GINEER FLORIDA
RACTOR SHALL COORDINATE THE BOTTOM OF BASE PLATE ELEVATION WITH THE CASE OF CONFLICT, THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR	
IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. DO NOT PAINT STEEL	AR FORCE OPERATIONS HURLBURT FIE
	DATE: 16 SEPT 2016
	DESIGNED BY: J. GREENWELL DRAWN BY:
	K. MORRIS BUILDING NO:
	90353 PROJECT NO: FTEV 12-1164
	SHEET REF:
	SHEET NO:
	SHEET 13 OF 110

4.18 STEEL JOISTS AND JOIST GIRDERS SHALL BE FABRICATED AND ERECTED IN STRICT CONFORMANCE WITH THE LATEST EDITION OF "STANDARD SPECIFICATIONS AND LOAD TABLES FOR JOIST AND JOIST GIRDERS, "OF THE STEEL JOIST INSTITUTE (SJI).

4.19 JOIST SEATS AND THEIR CONNECTIONS SHALL BE CAPABLE OF TRANSFERRING 1500 LBS PER JOIST OF DIAPHRAGM SHEAR FORCE FROM THE TOP OF JOIST SEAT INTO SUPPORT.

4.20 STEEL JOIST CONTRACTOR SHALL FURNISH ALL CROSS BRIDGING AND CONNECTIONS.

4.21 DESIGN STEEL JOISTS AND THEIR CONNECTIONS FOR UPLIFT AS SHOWN ON THE WIND PRESSURE DIAGRAM ON THESE DRAWINGS. A MAXIMUM OF 5 PSF OF GRAVITY LOAD MAY BE ASSUMED WHEN COMPUTING "NET" UPLIFT.

4.22 EXTEND AND FASTEN BOTTOM CHORDS TO ALL STEEL COLUMNS AND ALTERNATE JOISTS TO SUPPORTING BEAMS, U.N.O.

4.23 EXTEND AND FASTEN JOIST BOTTOM CHORD BRIDGING TO BOTTOM FLANGE OF BEAMS. PROVIDE BRIDGING AT A MAXIMUM SPACING OF 10'-0" O.C. WITH A MINIMUM OF ONE BAY X-BRIDGED TO TOP CHORD.

4.24 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.

STEEL DECKING:

4.25 MATERIAL FOR STEEL DECKING SHALL CONFORM TO ASTM A1008 GRADES 33 AND 40, OR FROM A653. SEE DRAWINGS FOR STEEL DECK TYPE, GAUGE, YIELD STRENGTH AND SECTION PROPERTIES.

4.26 ROOF DECK SHALL BE TYPE B, WIDE RIB.

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

4.28 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 BY HILTI (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 BY HILTI (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 BY HILTI (OR APPROVED EQUAL).

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

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

5.00 MASONRY

5.01 CONCRETE MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 530, BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES AND ACI 530.1, SPECIFICATIONS FOR CONCRETE MASONRY CONSTRUCTION.

5.02 PROVIDE LIGHTWEIGHT, HOLLOW, LOAD-BEARING CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C90, GRADE N, TYPE 1, fc' = 1900 PSI (NET), UNLESS NOTED OTHERWISE.

5.03 PROVIDE MASONRY CONSTRUCTION WITH MINIMUM COMPRESSIVE STRENGTH, fm = 1500 PSI.

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

5.05 VERTICAL CELLS SHALL BE REINFORCED WITH #5 @24" O.C. MINIMUM, UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS. VERTICAL REINFORCING SHALL BE CONTINUOUS (LAPPED 48 BAR DIAMETERS AT SPLICES) AND HELD IN POSITION AT THE TOP AND BOTTOM OF THE GROUT POUR. UNO, 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 2,500 PSI UNLESS NOTED OTHERWISE. GROUT SHALL BE FLUID CONSISTENCY. FLUID CONSISTENCY SHALL MEAN THAT CONSISTENCY 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.

6.01 FINAL DESIGN AND DETAIL FOR EXTERIOR METAL STUD FRAMING SHALL BE BY DELEGATED ENGINEER REGISTERED IN THE STATE OF FLORIDA. DELEGATED ENGINEER SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER OF RECORD. SHOP DRAWINGS SHALL INCLUDE WALL ELEVATIONS FOR EACH WALL, OPENING (JAMB, HEADER AND SILL) DETAILS, CONNECTION DETAILS, ETC.

6.02 COLD FORMED METAL STUDS: GALVANIZED STEEL PER ASTM A525, G60 COATING MEETING THE REQUIREMENTS OF ASTM A446 GRADE A, WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI.

6.03 ALL LOAD-BEARING (IN-PLANE OR OUT-OF-PLANE) STUDS INDICATED SHALL BE 18 GAGE MINIMUM AND HAVE 1-5/8" WIDE MINIMUM FLANGES WITH A 1/2" LIP AND SHALL BE SPACED AT 1'-4" O.C MAX SPACING, UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS. ALL TRACK INDICATED SHALL BE 18 GAGE MINIMUM AND HAVE 1-1/4" WIDE MINIMUM FLANGES, UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS. ALL TRACKS AND CONNECTIONS FRAMING TO 2ND FLOOR SLAB/BEAMS OR ROOF SLAB SHALL BE SLOTTED TO ALLOW FOR 3/4" OF VERTICAL MOVEMENT

6.04	CONNI	ECTION
A.	TRACK	(TO ST
	1.	0.145"
	2.	#12 H\
B.	TRACK	(TO IN
	1.	#8 x 2'
C.	TRACK	(TO BL
	JOIST/S	STUD L
D.	TRACK	K TO CO
	1.	0.145"
	2.	3/16" 7
E.	STUD '	TO STL
F.	STUD '	TO TRA
G.	STUD	TO STE
	1.	(2) 0.1
	2.	(2) #12
H.	HAT C	HANNE
	4	(0) #0

INSTALLATION.

6.00 COLD FORMED METAL FRAMING

6.04 CONNECTION REQUIREMENTS (UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS): TEEL OPTIONS

" DIA. MIN. P.A.F.S @ 8" O.C. STAGGERED.

WH SELF TAPPING TEK SCREWS @ 8" O.C.

ISULATED CONCRETE FORM PLASTIC WEB

"EXTERIOR DECK SCREWS AT 8" O.C. STAGGERED (IN CENTER OF PLASTIC WEBS) LOCK – (2) 3/16" TAPCON SCREW ANCHORS AT EACH OCATION EMBED 11/4" MINIMUM INTO BLOCK/GROUT.

ONCRETE OPTIONS:

" DIA. MIN. P.A.F.s @ 8" O.C. STAGGERED EMBED 1" MIN.

TAPCON SCREW ANCHORS @ 8" O.C. EMBED 1" MIN.

JD OR JOIST TO JOIST: (4) #8 HWH SELF TAPPING TEK SCREWS, MIN. ACK – (2) #8 MIN. HWH SELF TAPPING TEK SCREWS.

EEL OPTIONS

145" DIA. P.A.F.'s

2 HWH SELF TAPPING TEK SCREWS. ELS TO STUD/JOIST FRAMING

(2) #8 MIN. HWH SELF TAPPING TEK SCREWS AT EACH JOIST.

7.00 EPOXY ANCHORAGE: WHERE EPOXY ANCHORAGE IS SPECIFIED, PRODUCT SHALL BE HILTI HY200 OR HILTI HIT-RE 500 SD. FOLLOW STRICTLY THE MANUFACTURER'S SPECIFICATIONS FOR ANCHOR

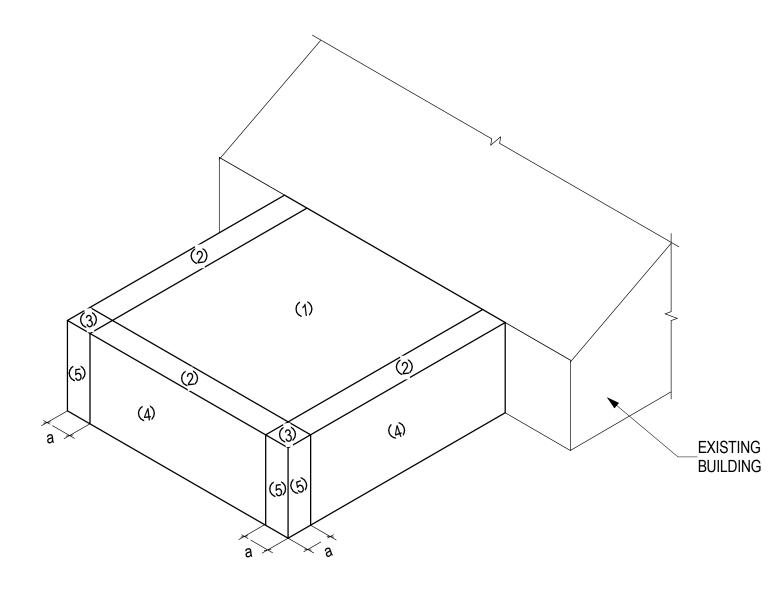
	WIND LOAD DETERMINATION ASSUMPTIONS - INTERNATIONAL BUILDING CODE 2012									
	WIND VELOCITY (MPH)	EXPOSURE CATEGORY	MEAN ROOF HEIGHT (FT.)				ROOF SLOPE	RISK CATEGO		ENCLOSURE CATEGORY
	156	С	13		0.5 ON 12			ENCLOSED		
ULTIMATE DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING (PSF)										

	ULTIMATE DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING (PSF)											
EFF. AREA	ROOF ZONE 1		ROOF ZC		DNE 2	ROOF ZONE 3		ONE 3	WALL ZONE 4		WALL Z	ZONE 5
(SQ. FT)					O-HANG			O-HANG				
<u><</u> 10	21.6	-53.0	21.6	-89.0	-76.4	21.6	-134.0	-125.9	48.5	-52.6	48.5	-64.7
50	18.4	-49.9	18.4	-67.0	-73.3	18.4	-80.5	-63.0	43.6	-47.6	43.6	-54.7
<u>></u> 100	17.1	-48.5	17.1	-57.5	-71.9	17.1	-57.5	-36.0	41.4	-45.4	41.4	-50.4

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 = 6.6 FT.

LOADS TO BE USED WITH ALLOWABLE STRESS DESIGN, MULTIPLY THE PRESSURES BY 0.60. SEE TABLES 2.3 AND 2.4 IN ASCE 7-10 FOR MORE INFORMATION ON LOAD COMBINATIONS.

3. 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



BUILDING LOCATION: BUILDING OCCUPANCY CATEGORY: PRIMARY GATHERING LEVEL OF PROTECTION:

EXPLOSIVE WEIGHT: STANDOFF DISTANCE PROVIDED: VARIES, SEE CIVIL (> 30 FT.) WALL TYPE (EXISTING): LOAD BEARING UNREINFORCED MASONRY WALLS WITH CMU VENEER WALL TYPE (NEW): LOAD BEARING REINFORCED MASONRY WALLS WITH CMU VENEER CONVENTIONAL CONSTRUCTION STANDOFF: 30 FT. MINIMUM REQUIRED STANDOFF BASED ON WALL TYPE: 13 FT. BLAST DESIGN: METAL DECKING, ROOF JOISTS, WINDOWS, WINDOW FRAMES, STOREFRONT SYSTEMS, CURTAIN WALL SYSTEMS, DOORS AND CONNECTIONS OF COMPONENTS SHALL BE DESIGNED AND DETAILED TO CONFORM TO THE REQUIREMENTS OF THE LATEST UFC 4-010-01 STATED ABOVE.

ALL DOORS, SKYLIGHTS, WINDOWS, STOREFRONT SYSTEMS, CURTAIN WALL SYSTEMS AND OTHER SIMILAR COMPONENTS AND THEIR CONNECTIONS SHALL BE DESIGNED TO RESIST LOADS AS OUTLINED IN THE INTERNATIONAL BUILDING CODE 2012 EDITION, ASCE 7-10, UFC 4-010-01, AND PDC TR-10-02 INCLUDING BUT NOT LIMITED TO WIND LOADS, IMPACT RESISTANCE, AND BLAST RESISTANCE. ALL WINDOWS, DOORS, STOREFRONT SYSTEMS, CURTAIN WALL SYSTEMS, ETC SHALL BE DESIGNED BY THEIR SYSTEMS ENGINEER AND PROVIDED AAS A SYSTEM INCLUDING ANY REQUIRED INTERMEDIATE SUPPORT AND THEIR ATTACHMENTS TO THE MAIN STRUCTURAL FRAME. SUBMIT CALCULATIONS TO THE CONTRACTING OFFICER.

REPRESENTATIVE DIAGRAM

ATFP DESIGN CRITERIA PER UFC 4-010-01 DATED 9 FEBRUARY 2012, CHANGE 1, 1 OCTOBER 2013 WITHIN CONTROLLED PERIMETER

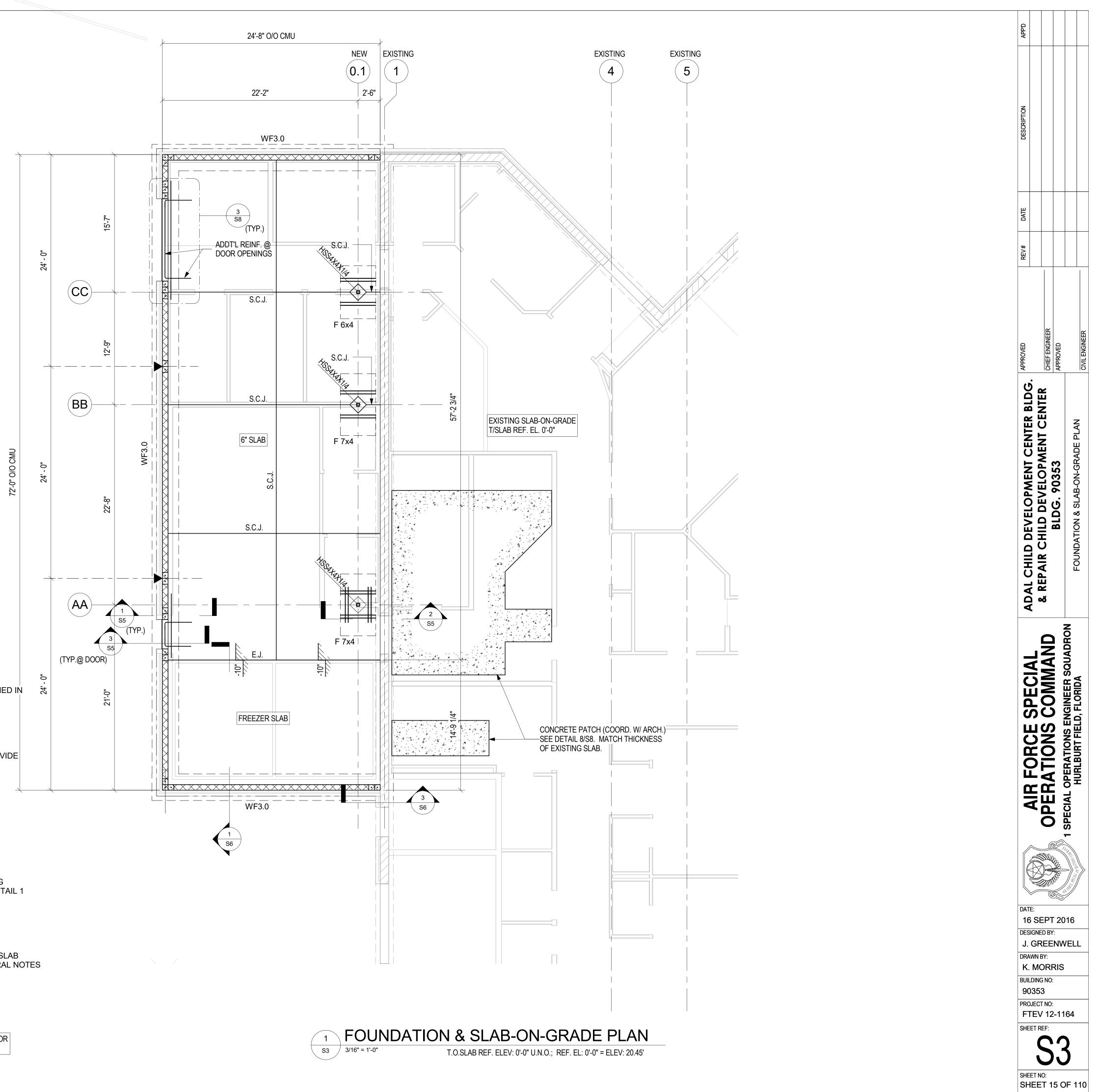
- LOW
- TYPE II

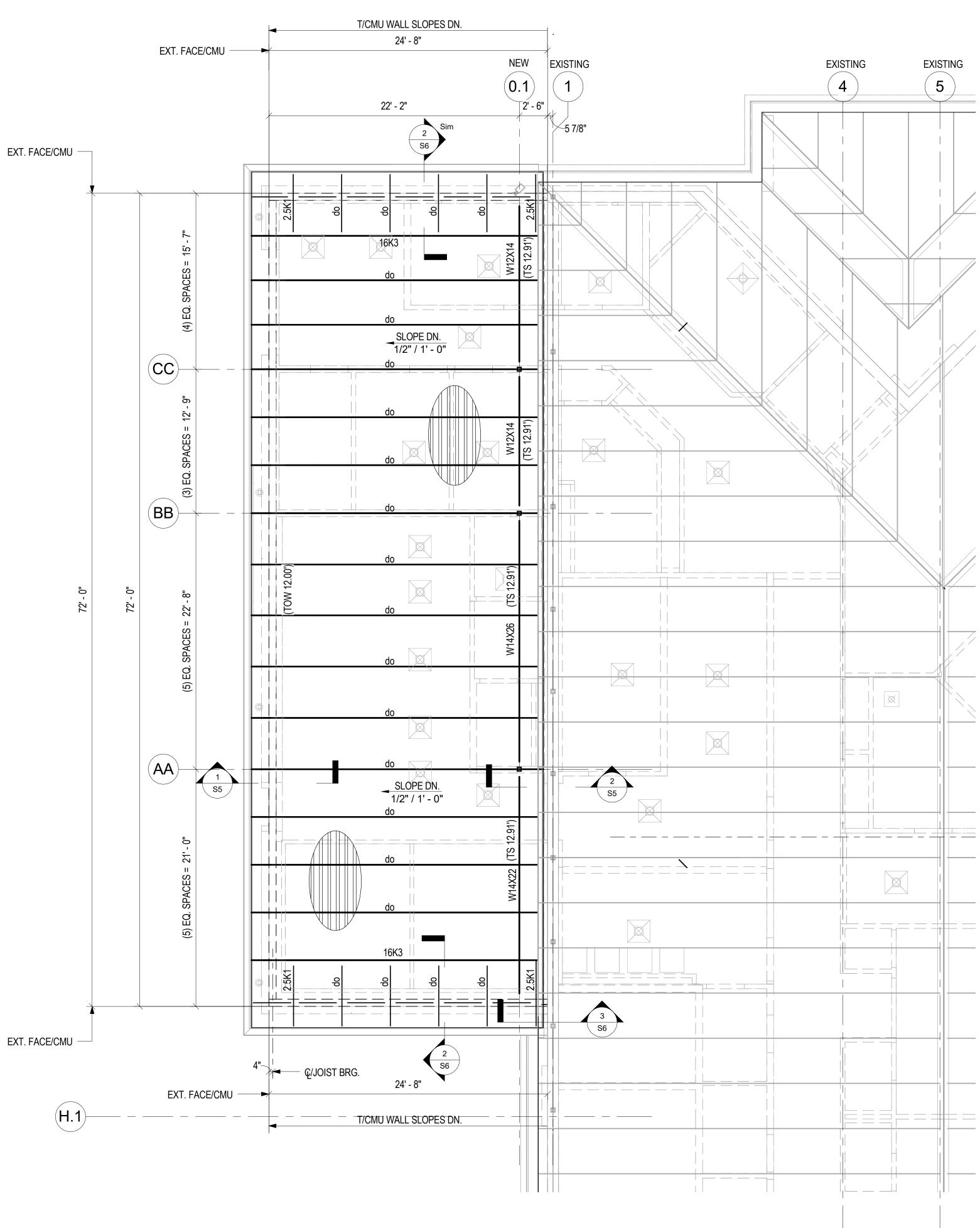
REV # DATE DESCRIPTION APPD					
APPROVED		CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
			BLDG. 90353	SMARRIN DAO I UNIM UNA SATON JARANAR	
	JHCE	OPERATIONS COMMAND			
1 DE J DR K BU 9 PR F SH	TE: 6 SE SIGNE . GR AWN E AWN E AWN E AWN E C. MC ILDING 035: 035: 035: 035: TEV EET R EET R EET N HEE	D BY REE 3Y: DRF 3 NO: 3 7 NO: 4 12 EF: 5 0:	- 20 	64	

	FOUNDATION SCHEDULE										
MAR	K WIDTH	LENGTH	THICKNESS	BOTTOM REINFORCING	TOP REINFORCING	TOP OF FOOTING					
F6x4	4'-0"	6'-0"	1'-0"	#5 @ 12" O.C.; E.W.	N/A	-1'-4"					
F7x4	4'-0"	7'-0"	1'-0"	#5 @ 12" O.C.; E.W.	N/A	-1'-4"					
WF3	.0 3'-0"	SEE PLAN	1'-0"	#5 @ 12" O.C.; E.W.	N/A	-1'-4"					

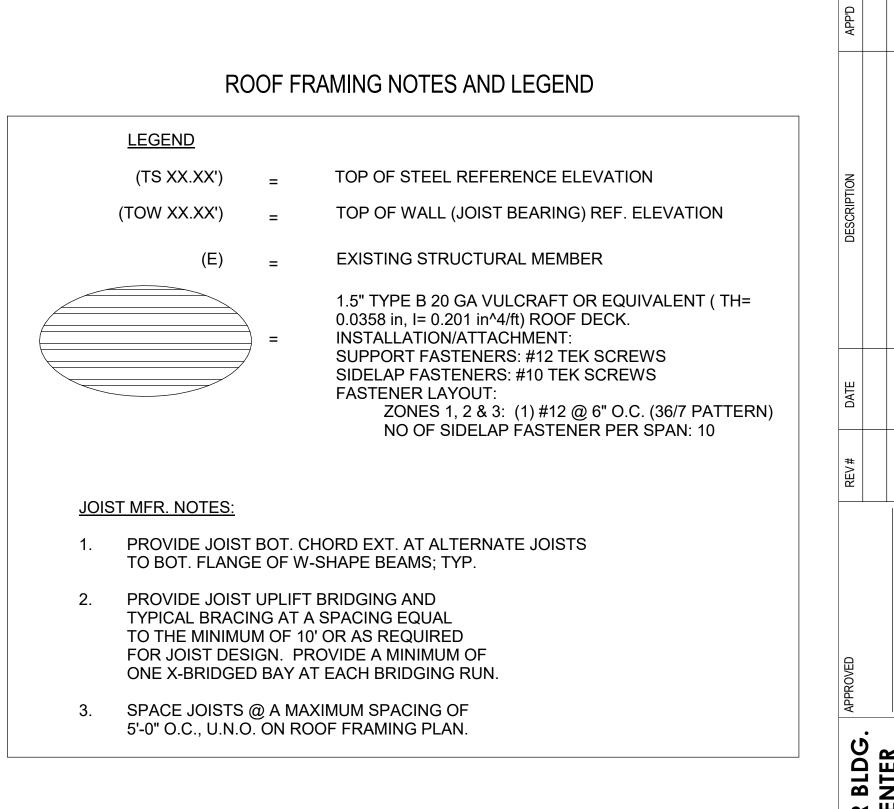


	=	NEW 8" NOMINAL CMU WALLS WALL. UNLESS NOTED OTHERWISE (U.N.O.), WALL SHALL BE REINFORCED WITH #5 VERTICAL REINFORCING AT 32" O.C. IN CENTER OF GROUT FILLED CELLS. PROVIDE HORIZONTAL JOINT REINFORCING AND ADDITIONAL VERTICAL REINFORCING AS OUTLINEI THE GENERAL NOTES, TYPICAL DETAILS AND SECTIONS IN THESE DRAWINGS.
	=	EXISTING 12" NOMINAL CMU WALL
	=	ADDITIONAL GROUT FILLED AND REINFORCED CELL IN ADDITION TO TYPICAL REINFORCING. PROVI BAR SIZE TO MATCH WALL REINF.
	=	VERTICAL MASONRY CONTROL JOINT LOCATION; SEE DETAIL 4/S7.
S.C.J.	=	SAWN CONTRACTION JOINT OR CONSTRUCTION JOINT; CONTRACTOR'S OPTION U.N.O. SEE DETAIL, SHEET S8.
E.J.	=	EXPANSION JOINT - 1/2" P.J.F.
FREEZER SLAB	=	6" CONCRETE BASE SLAB (REINF. W/ #3 @12" O.C 1 1/2" CLEAR TO TOP) WITH 1" SAND LEVELING BASE, 4" INSULATED METAL PANEL AND 3" CONCRETE FLOOR WITH EPOXY FINISH. REFER TO DETA ON SHEET S6.
-117/11/	=	SLAB STEP
6" SLAB	=	6" MINIMUM THICKNESS SLAB-ON-GRADE REINFORCED WITH #3 @12" O.C. 1 1/2" CLEAR TO TOP. SL SHALL BE PLACED OVER A VAPOR BARRIER AND CAPILLARY BREAK AS INDICATED IN THE GENERAL SECTION 2.07 ON SHEET S1.
	=	(2) #4x4'-0" RE-ENTRANT CRACK CONTROL REINF. W/ 1" CLR TO TOP OF SLAB
G.C. NOTE: NO FOU WALL FACE.	JNDATI	ON UNDERCUT SHALL OCCUR WITHIN 10.0-FEET OF THE EXISTING BUILDING AS MEASURED FROM THE EXISTING EXTERIOR

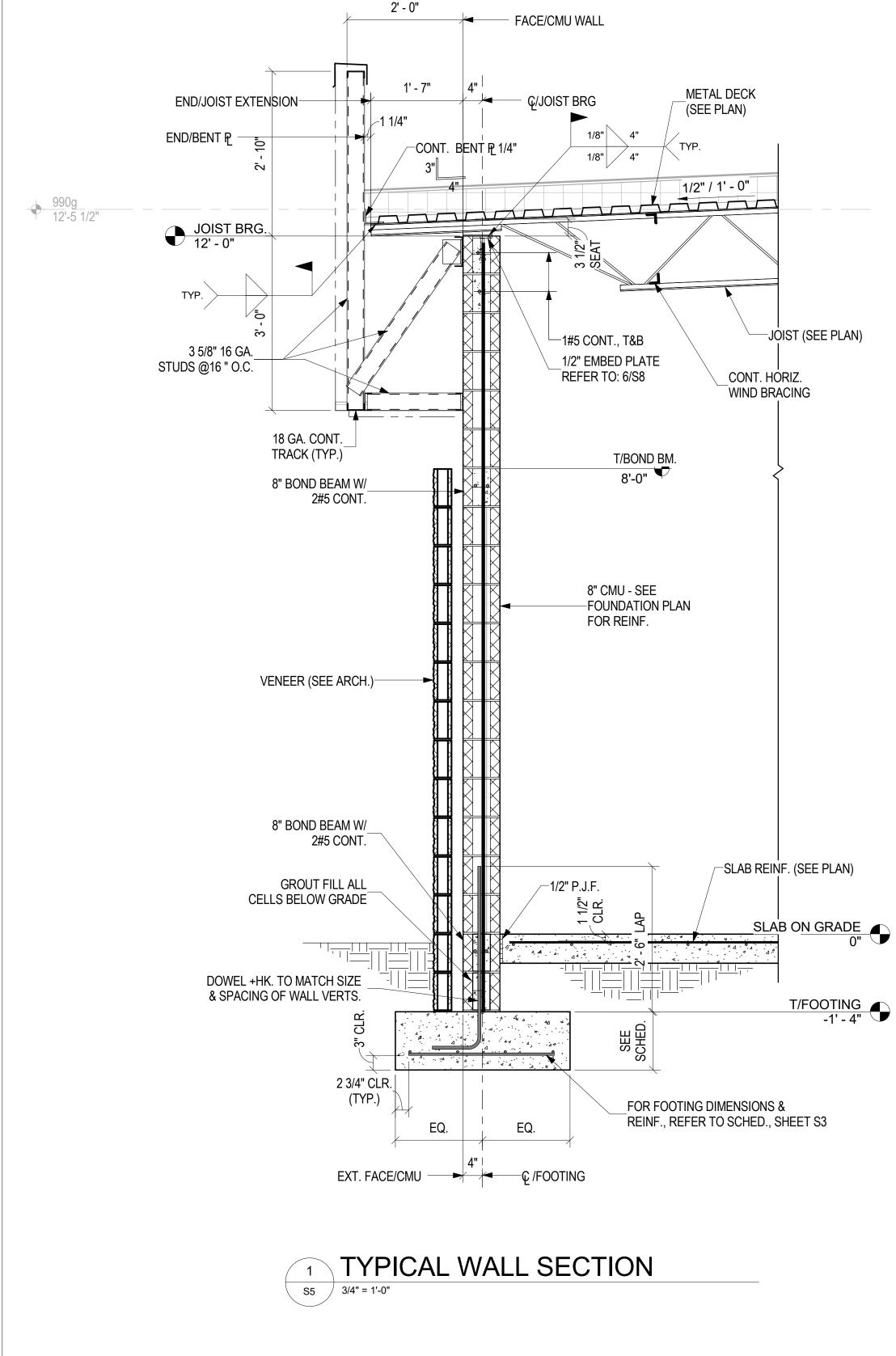


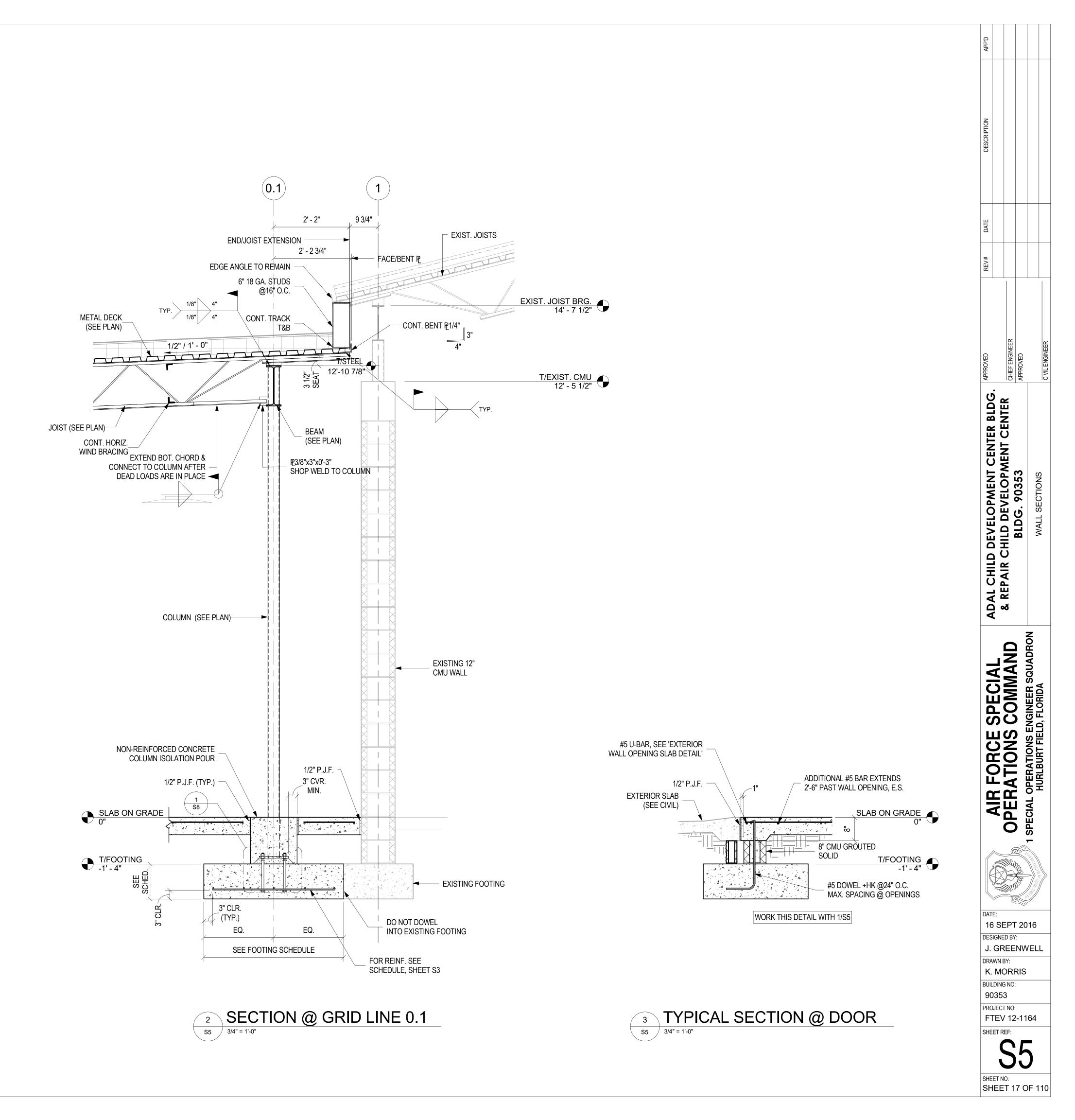


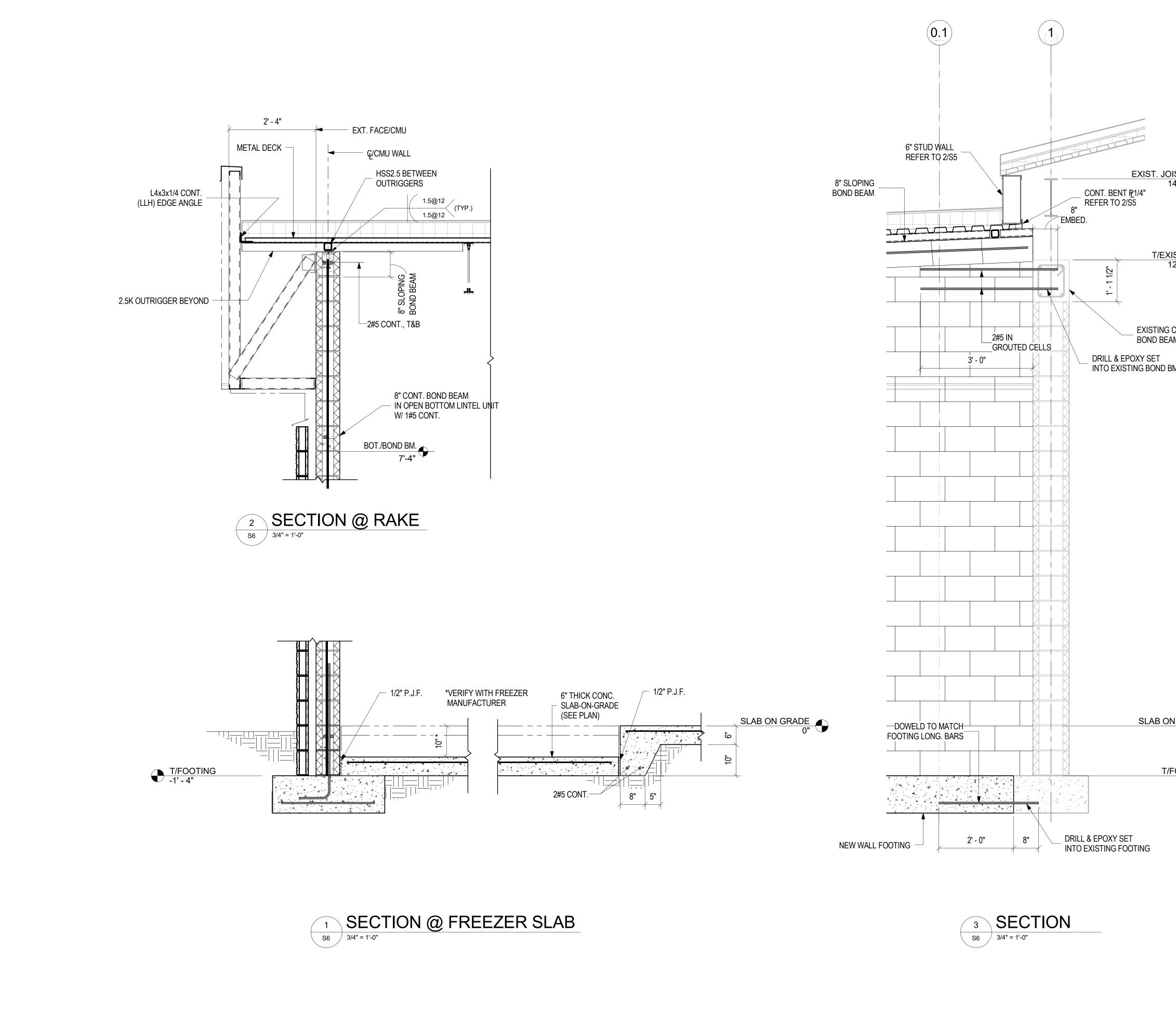




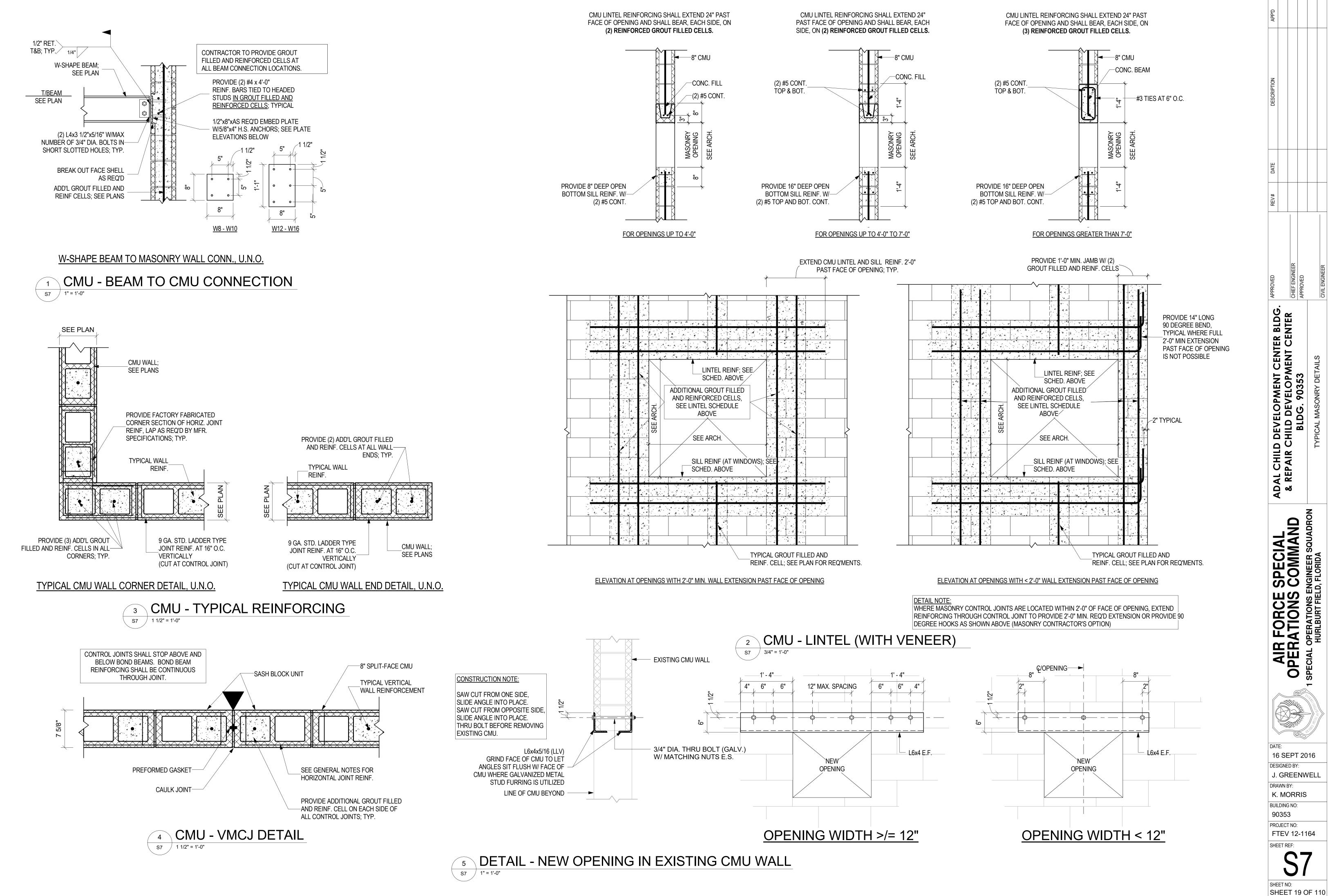


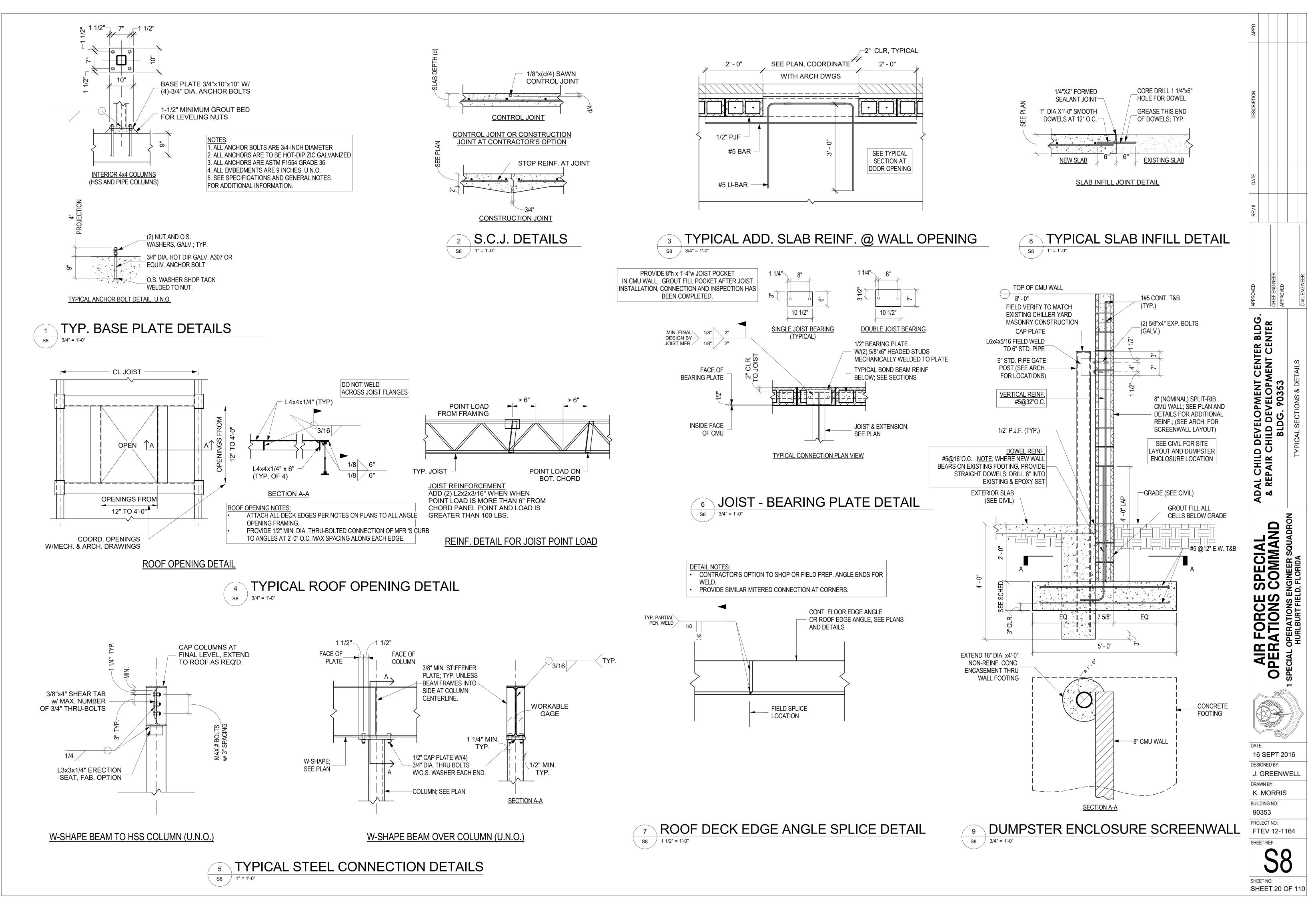




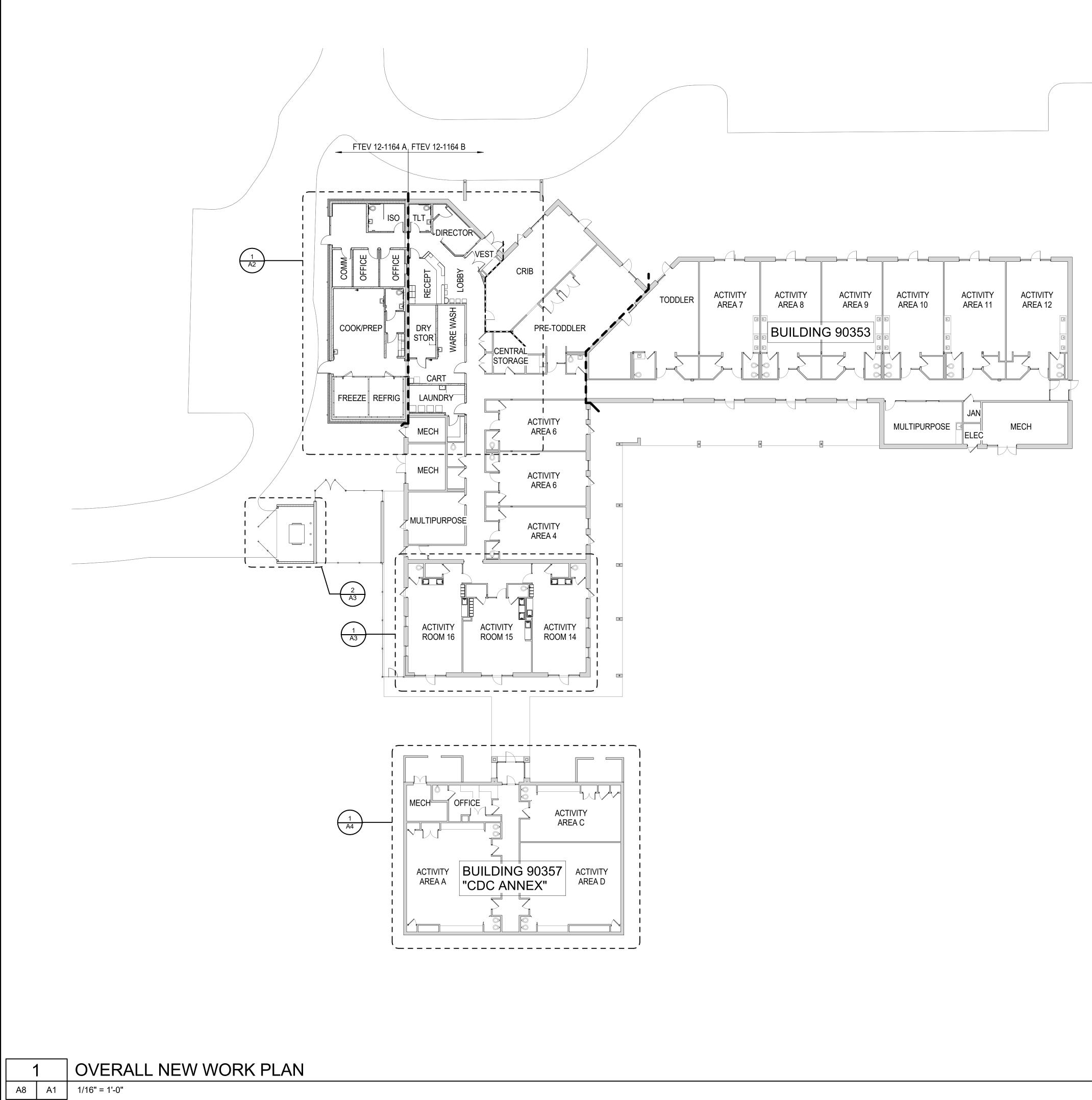


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<u>ST BRG.</u> 4' - 7 1/2"	#	
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ST. CMU 2' - 5 1/2"	ι. Έ	œ
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	D DEVELOPMENT CENTER BLDG. CHILD DEVELOPMENT CENTER BLDG. 90353	TIONS
	EVELOP/ BLDG. 9	WALL SECTIONS
	ADAL CHIL & REPAIR	
	SPECIAL COMMANI	4
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OOTING -1' - 4"	AIR FORCE S OPERATIONS OPERATIONS EN	HURLBURT FIELD, FLORIDA
	1 SPECIA	
		C. SIMILAR C.
	DATE:	10146 or
	16 SEPT 2010 DESIGNED BY: J. GREENWE	
	DRAWN BY: K. MORRIS	
	BUILDING NO:	
	90353 PROJECT NO: FTEV 12-1164	4
	90353 PROJECT NO:	4





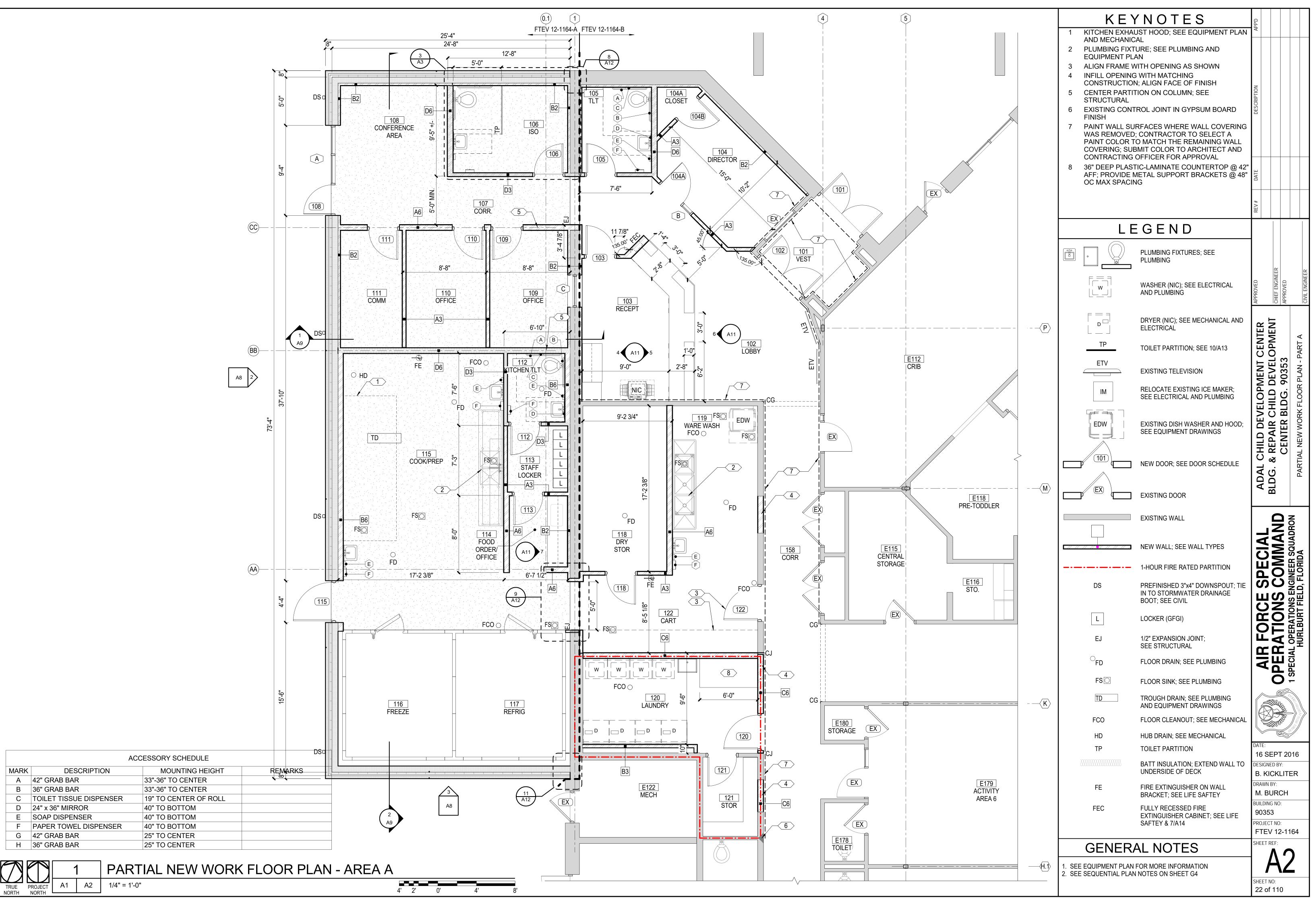
ANDARD D LAYOUT (24" X 36")

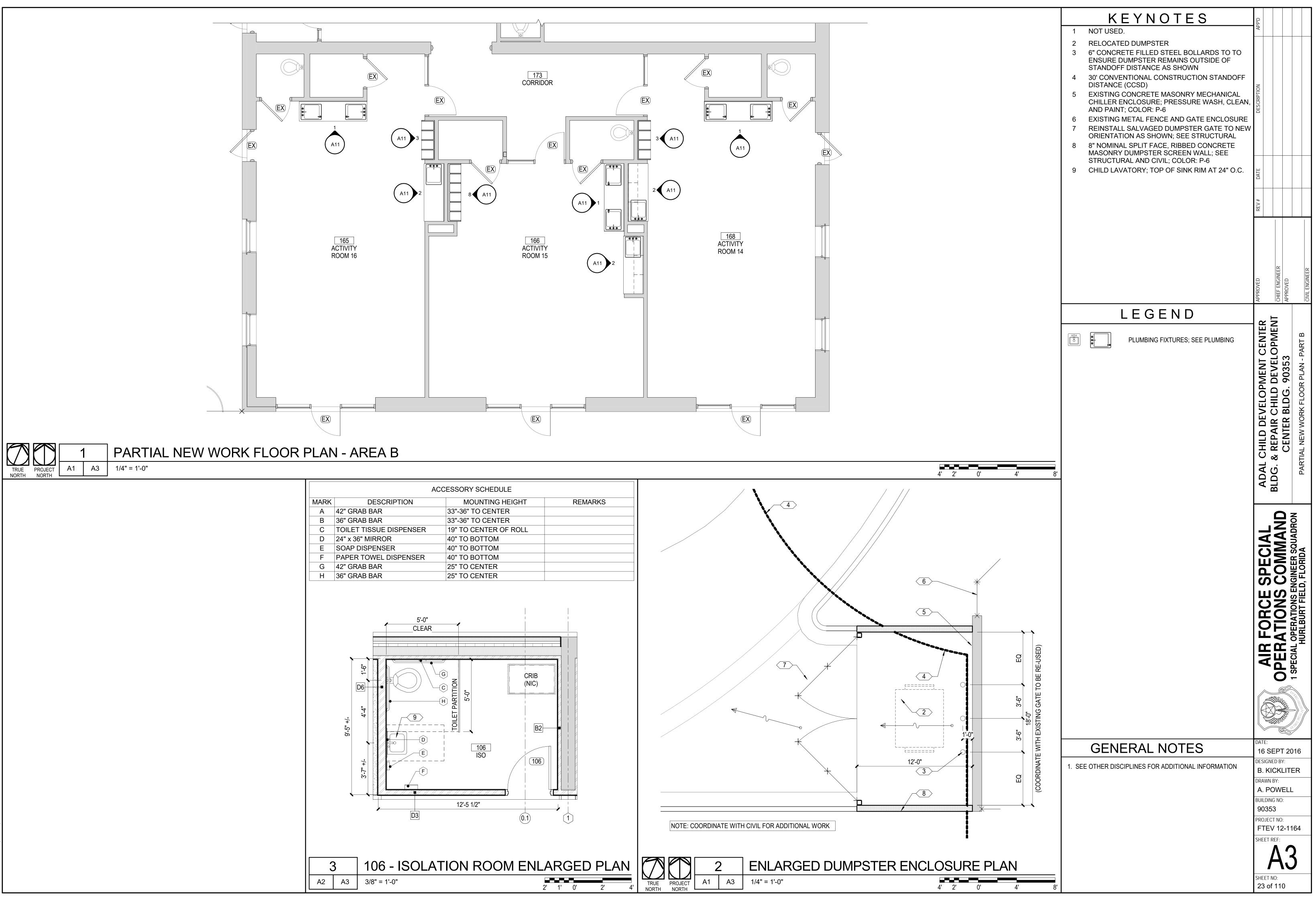


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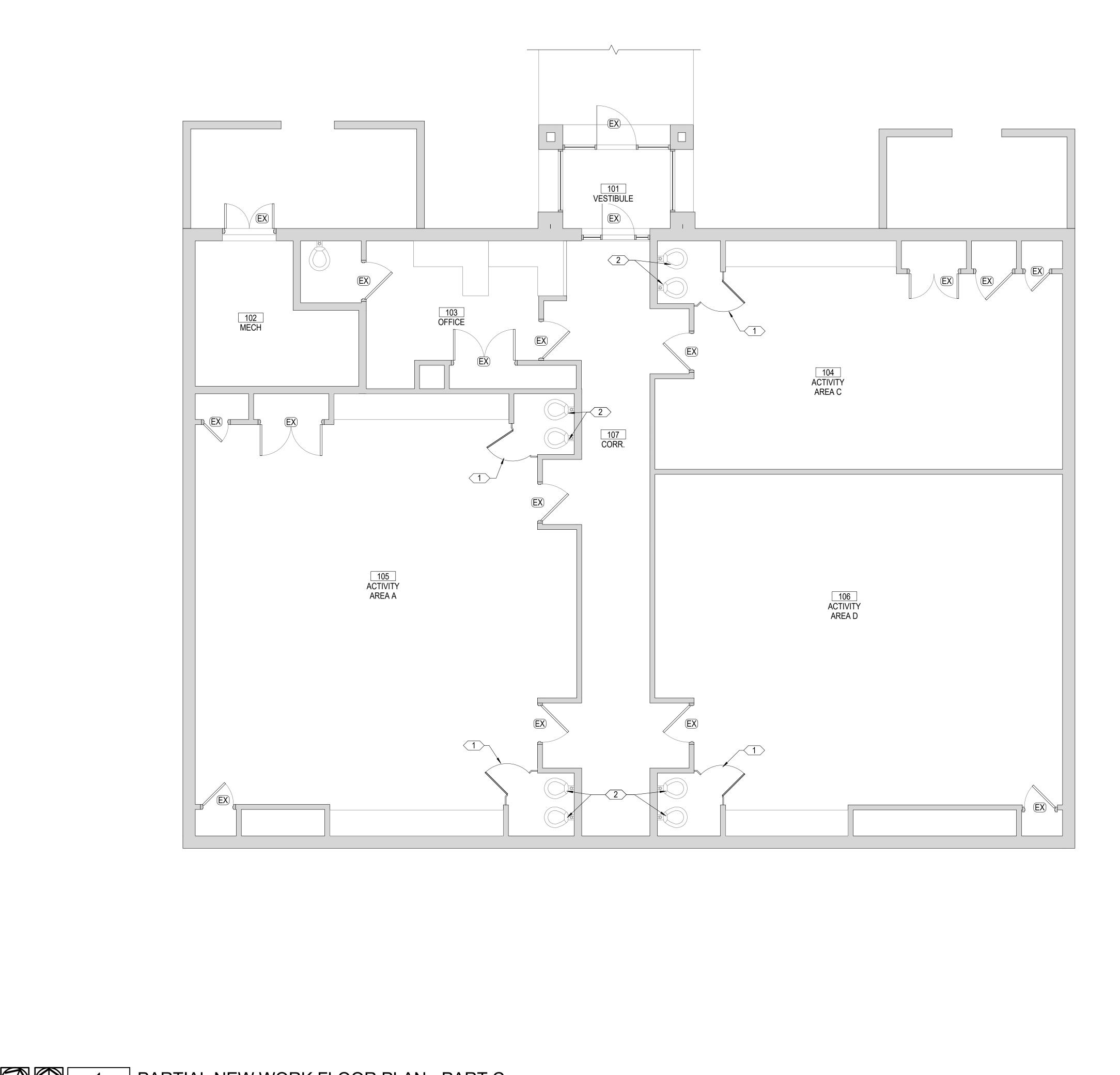
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90353 PROJECT NO: FTEV 12-1164 SHEET REF: A 1. COORDINATE ALL WORK EFFORTS WITH OVERALL SEQUENCING PLAN. SHEET NO:			DRA	WN BY:	
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1. COORDINATE ALL WORK EFFORTS WITH OVERALL A1 SEQUENCING PLAN. SHEET NO:		GENERAL NOTES	FT	EV 12-11	64
SHEET NO:		1. COORDINATE ALL WORK EFFORTS WITH OVERALL		A1	
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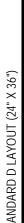
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ACC	ESSORY SCHEDULE	
	MOUNTING HEIGHT	REMARKS
	33"-36" TO CENTER	
	33"-36" TO CENTER	
	19" TO CENTER OF ROLL	
	40" TO BOTTOM	
	40" TO BOTTOM	
	40" TO BOTTOM	
	25" TO CENTER	
	25" TO CENTER	





TRUE PROJECT A1 A4

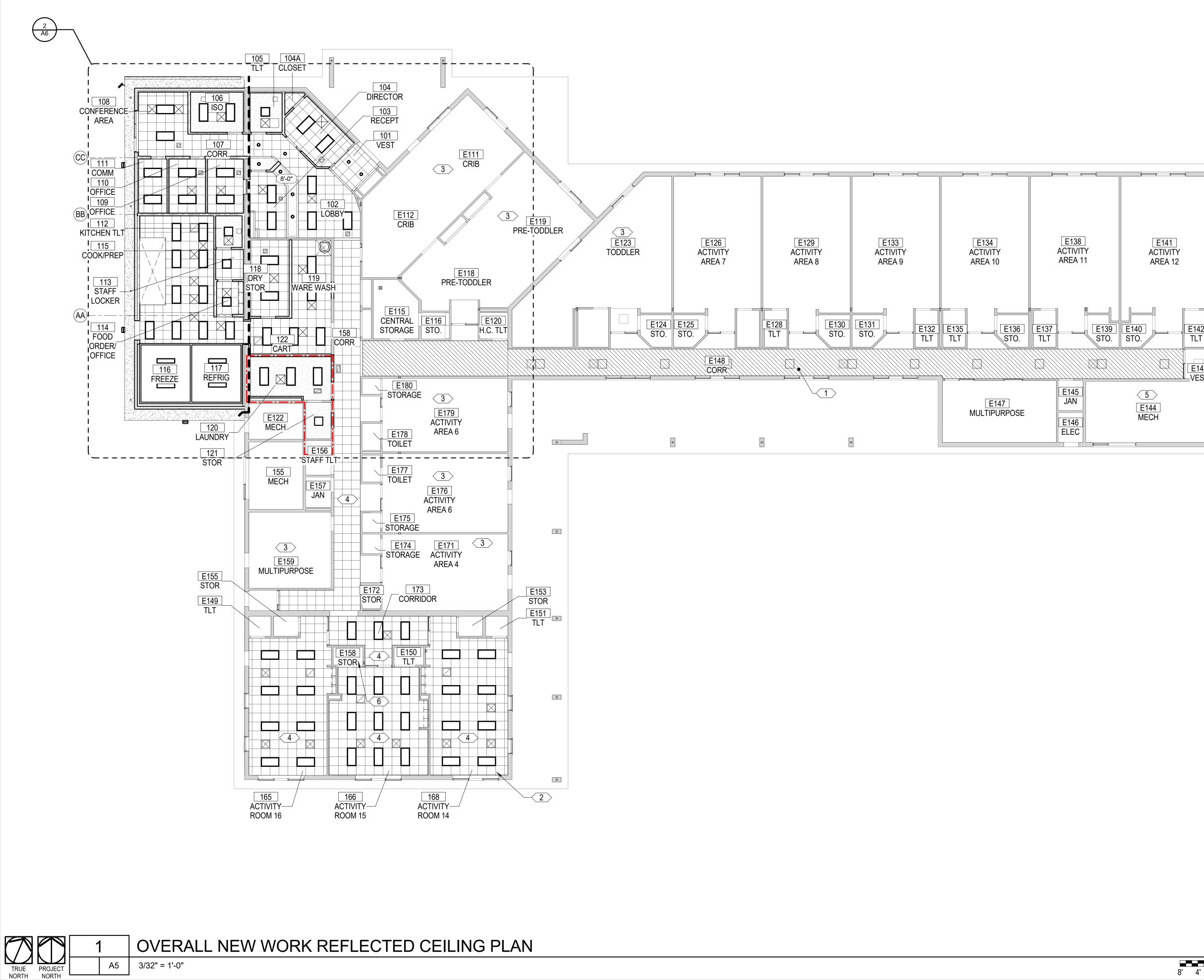
PARTIAL NEW WORK FLOOR PLAN - PART C

1/4" = 1'-0"

1 3'-0" TALL TOILET COMPARTMENT DIVIDER WITH 2'-6" DOOR/GATE; TYPICAL OF (4) LOCATIONS IN BUILDING 90357; CONTRACTOR TO FIELD VERIFY DIMENSIONS AND SUBMIT SHOP DRAWINGS FOR APPROVAL; SEE 6/A16 2 EXISTING CHILD-SIZED TOILET FIXTURES TO REMAIN	ION APP'D		
BUILDING 90357; CONTRACTOR TO FIELD VERIFY DIMENSIONS AND SUBMIT SHOP DRAWINGS FOR APPROVAL; SEE 6/A16 2 EXISTING CHILD-SIZED TOILET FIXTURES TO REMAIN	NOI		
	DESCRIF		
	DATE		
	REV #		
LEGEND			
101 NEW DOOR; SEE DOOR SCHEDULE	APPROVED	chief engineer Approved	CIVIL ENGINEER
	<u> </u>		CIV
	ADAL CHILD DEVELOPMENT CENTER		PARTIAL NEW WORK FLOOR PLAN - PART C
	AIR FORCE SPECIAL	OPERATIONS COMMAN	HURLBURT FIELD, FLORIDA
GENERAL NOTES	DATE: 16 SE		16
1. SCOPE OF WORK TO BE PERFORMED IN BUILDING 90357 (CDC ANNEX) IS LIMITED TO PROVIDING TOILET PARTITIONS/PRIVACY PANELS AT (4) CHILDRENS WATER CLOSET LOCATIONS. ALL OTHER WORK IS OUTSIDE THIS BUILDING.	DESIGNEE B. KIC DRAWN B ^N M. BU BUILDING 90353 PROJECT	Y: IRCH NO: NO:	
F			

4' 2' 0'

<u></u>4'



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1 1 1 1 1 1 1 1 1 1 1 1 1 1	KEYNOTES 1 TEMPORARILY REMOVE CEILING TILES AND GRID COMPONENTS AS NEEDED TO INSTALL ABOVE CEILING FIRE PROTECTION WORK, LIGHTING, MECHANICAL DISTRIBUTION, AND OTHER CEILING MOUNTED DEVICES ARE TO REMAIN UNEFFECTED; REPLACE ALL DAMAGED TILES OR GRID COMPONENTS WITH NEW TO MATCH EXISTING; SEE FIRE PROTECTION 2 SEE MECHANICAL FOR NEW ABOVE CEILING WORK 3 NO WORK IN THIS AREA OR CONNECTING SUB ROOMS 4 REINSTALL ALL CEILING APPURTENANCES IN NEW CEILING IN ORIGINAL POSITION 5 SEE MECHANICAL FOR NEW WORK 6 CEILING IN THIS SPACE SHOULD REQUIRE MINIMAL WORK TO INSTALL NEW MECHANICAL SYSTEMS; CONTRACTOR TO TAKE CARE TO TEMPORARILY REMOVE AND REINSTALL CEILING TILLES; REPLACE ALL DAMAGED TILES OR GRID COMPONENTS WITH NEW (MATCH EXISTING); SEE MECHANICAL	CHILD DEVELOPMENT CENTER APPROVED REV # DATE DESCRIPTION & REPAIR CHILD DEVELOPMENT CHIEF ENGINER PPROVED PPROVED PPROVED & REPAIR CHILD DEVELOPMENT CHIEF ENGINER PPROVED PPROVED PPROVED OVERALL NEW WORK RCP CIVIL ENGINER PPROVED PPROVED PPROVED
	LEGEND Image: Description of the second se	ADAL BIDG. BBDG ADAL ADAL ADAL ADAL ADAL ADAL ADAL AD

E141 ACTIVITY

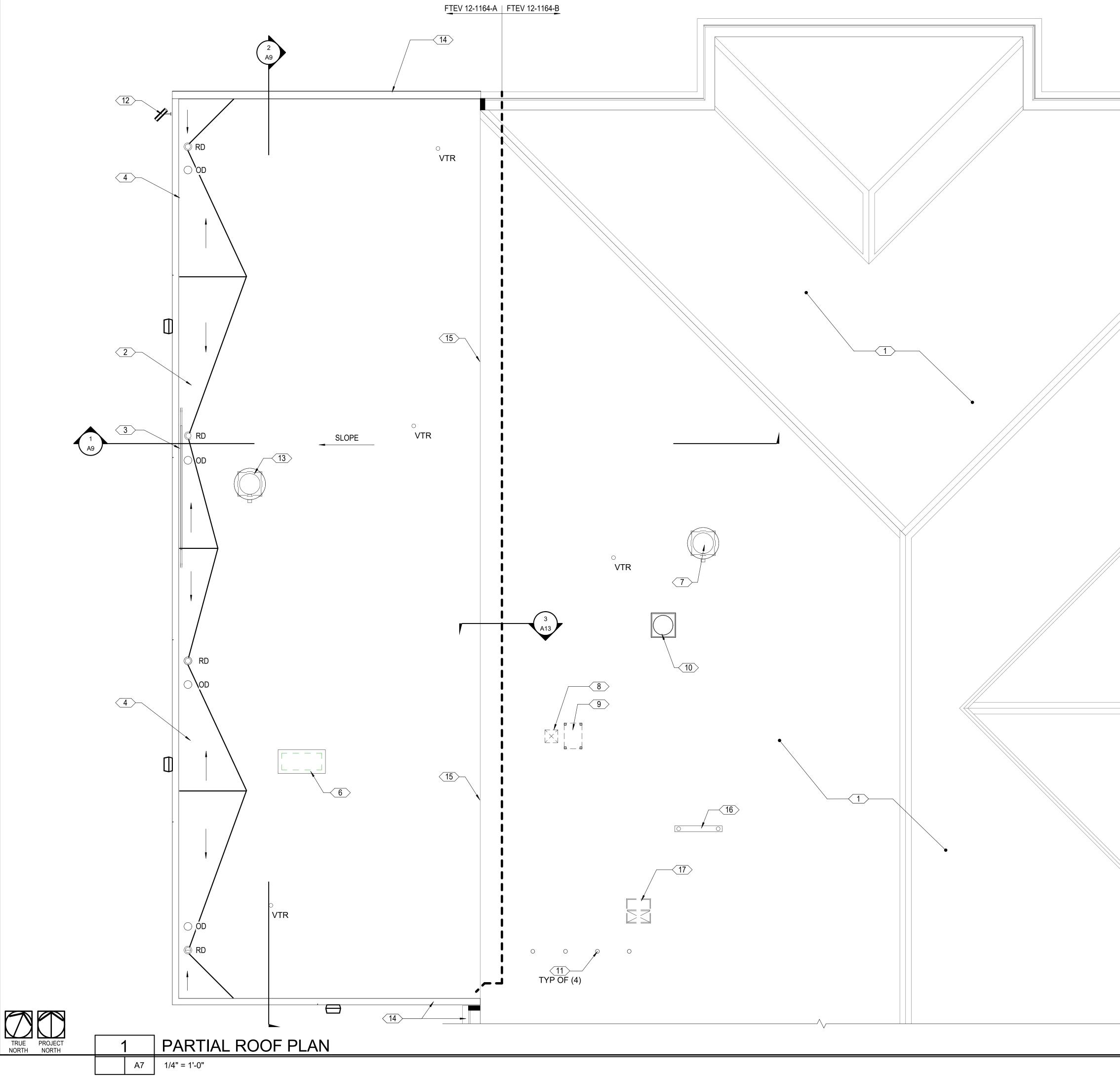
AREA 12

5

E144 MECH



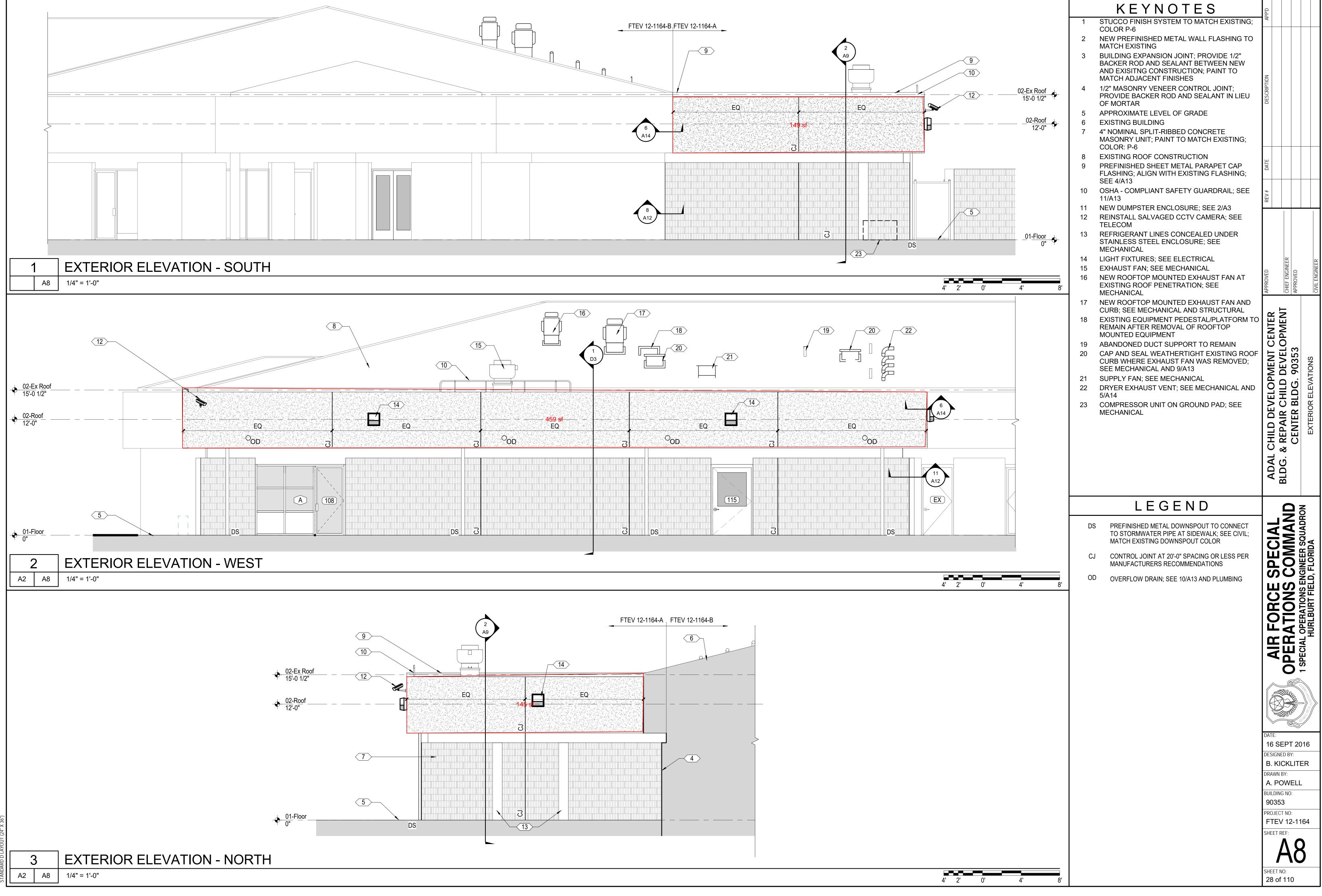


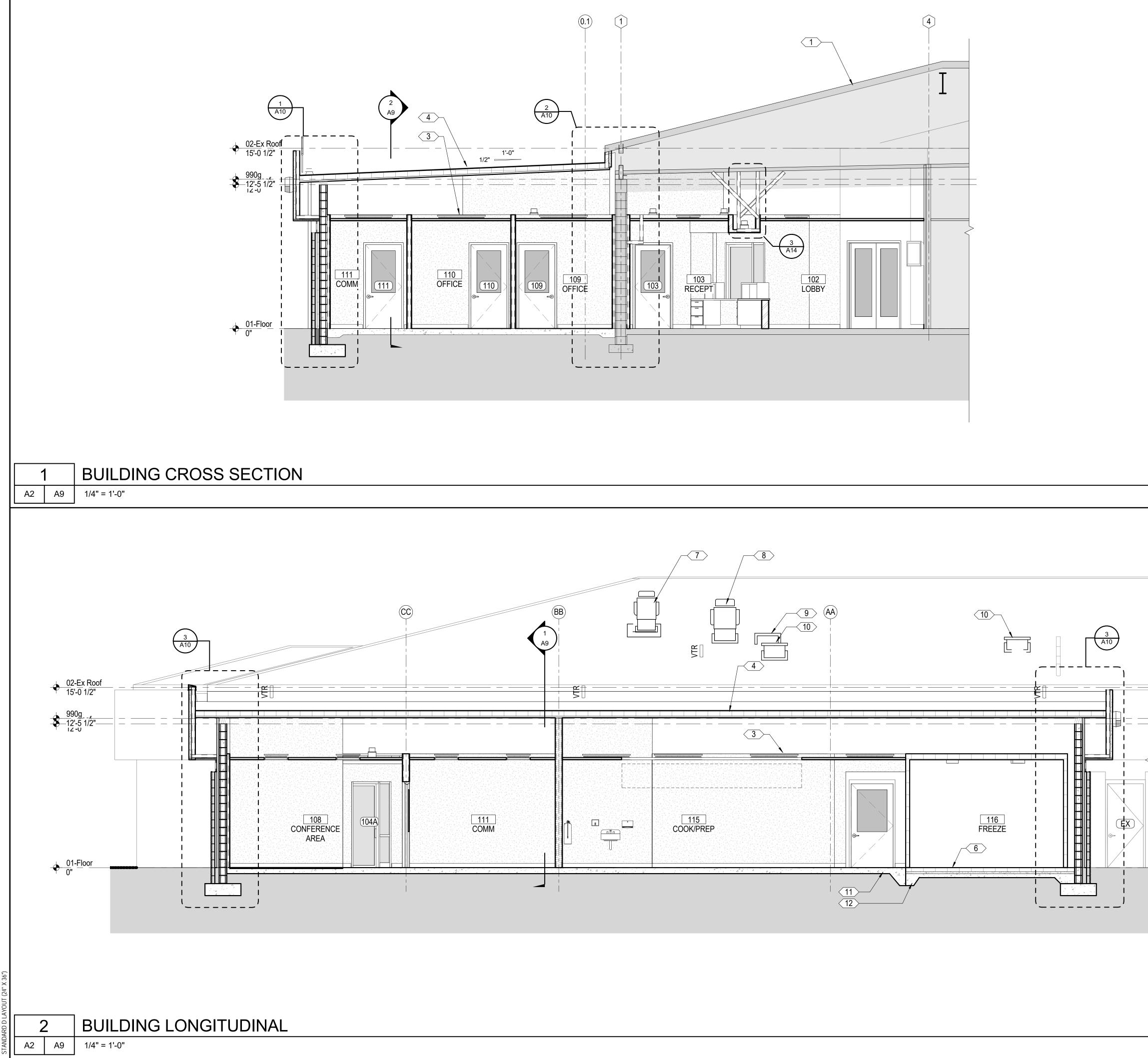




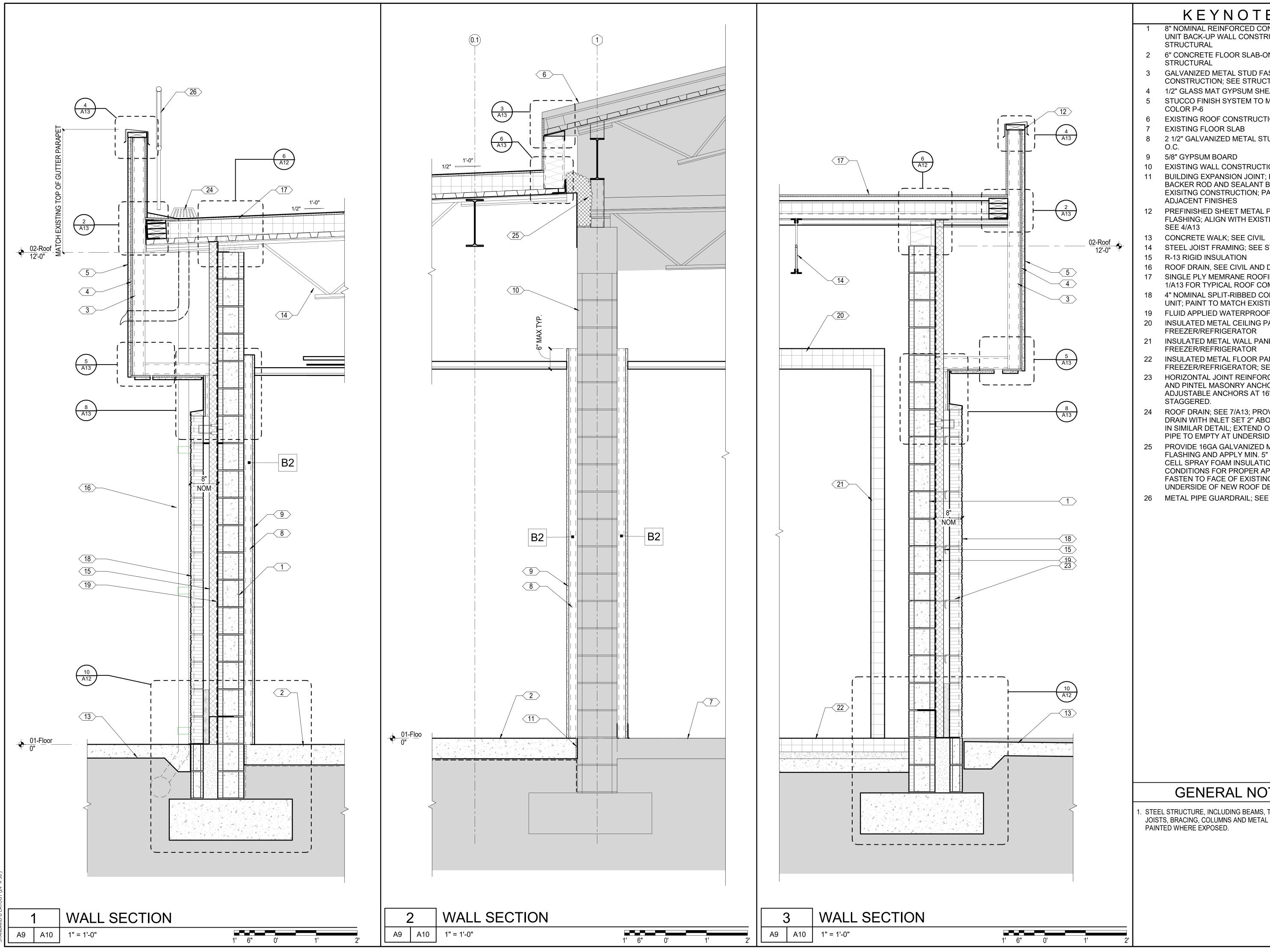
 KEYNOTES 1 EXISTING STANDING SEAM ROOFING TO REMAIN UNALTERED 2 SINGLE PLY MEMRANE ROOFING SYSTEM; SEE 1/A13 FOR TYPICAL ROOF COMPOSITION 	
2 SINGLE PLY MEMRANE ROOFING SYSTEM; SEE 1/A13 FOR TYPICAL ROOF COMPOSITION	APP'D
 3 OSHA - COMPLIANT SAFETY GUARDRAIL; SEE 11/A13 4 ROOF CRICKET FORMED WITH TAPERED RIGID INSULATION 5 PROVIDE END DAM TO EXISTING INTEGRAL GUTTER SYSTEM; CONTRACTOR TO COORDINATE WITH EXISTING CONDITIONS TO PROVIDE FLASHING, FASTENERS, SUPPORT, AND SEALANT AS REQUIRED TO PROVIDE WATER TIGHT TERMINATION OF EXISTING INTEGRAL GUTTER SYSTEM. SEE PARTIAL ROOF DEMOLITION PLAN 1/D2 6 SUPPLY FAN; SEE MECHANICAL 7 NEW ROOFTOP MOUNTED EXHAUST FAN AT EXISTING ROOF PENETRATION; SEE MECHANICAL 8 CAP AND SEAL WEATHERTIGHT EXISTING ROOF CURB WHERE EXHAUST FAN WAS REMOVED; SEE MECHANICAL AND 9/A13 9 EXISTING EQUIPMENT PEDESTAL/PLATFORM TO REMAIN AFTER REMOVAL OF ROOFTOP 	REV # DATE DESCRIPTION Image: Second state
 MOUNTED EQUIPMENT 10 NEW ROOFTOP MOUNTED EXHAUST FAN AND CURB; SEE MECHANICAL AND STRUCTURAL 11 DRYER EXHAUST VENT; SEE MECHANICAL AND 5/A14 12 REINSTALL SALVAGED CCTV CAMERA; SEE TELECOM 13 EXHAUST FAN; SEE MECHANICAL 14 TOP OF NEW PARAPET TO BE SET SUCH THAT 	APPROVED CHIEF ENGINEER APPROVED CIVIL ENGINEER
 THE METAL COPING CAP ELVATION IS TO MATCH EXISTING COPING CAP FLASHING AT INTEGRAL GUTTER 15 EDGE OF EXISTING ROOF; PROTECT AND RETAIN GUTTER COUNTERFLASHING FOR RE-USE; SEE 3/A13 16 ABANDONED DUCT SUPPORT TO REMAIN 17 	ADAL CHILD DEVELOPMENT CENTER BLDG. & REPAIR CHILD DEVELOPMENT CENTER BLDG. 90353 NEW WORK ROOF PLAN
LEGEND	
RD ROOF DRAIN; SEE PLUMBING	
ODOVERFLOW DRAIN; SET INLET 2" ABOVE ADJACENT ROOF DRAIN; TURN DOWNSPOUT TO DRAIN AT FASCIA; SEE 10/A13; SEE PLUMBINGVTRVENT THRU ROOF; SEE PLUMBING	AIR FORCE SPE OPERATIONS CON 1 SPECIAL OPERATIONS ENGINEET HURLBURT FIELD, FLORE
	DATE: 16 SEPT 2016 DESIGNED BY:

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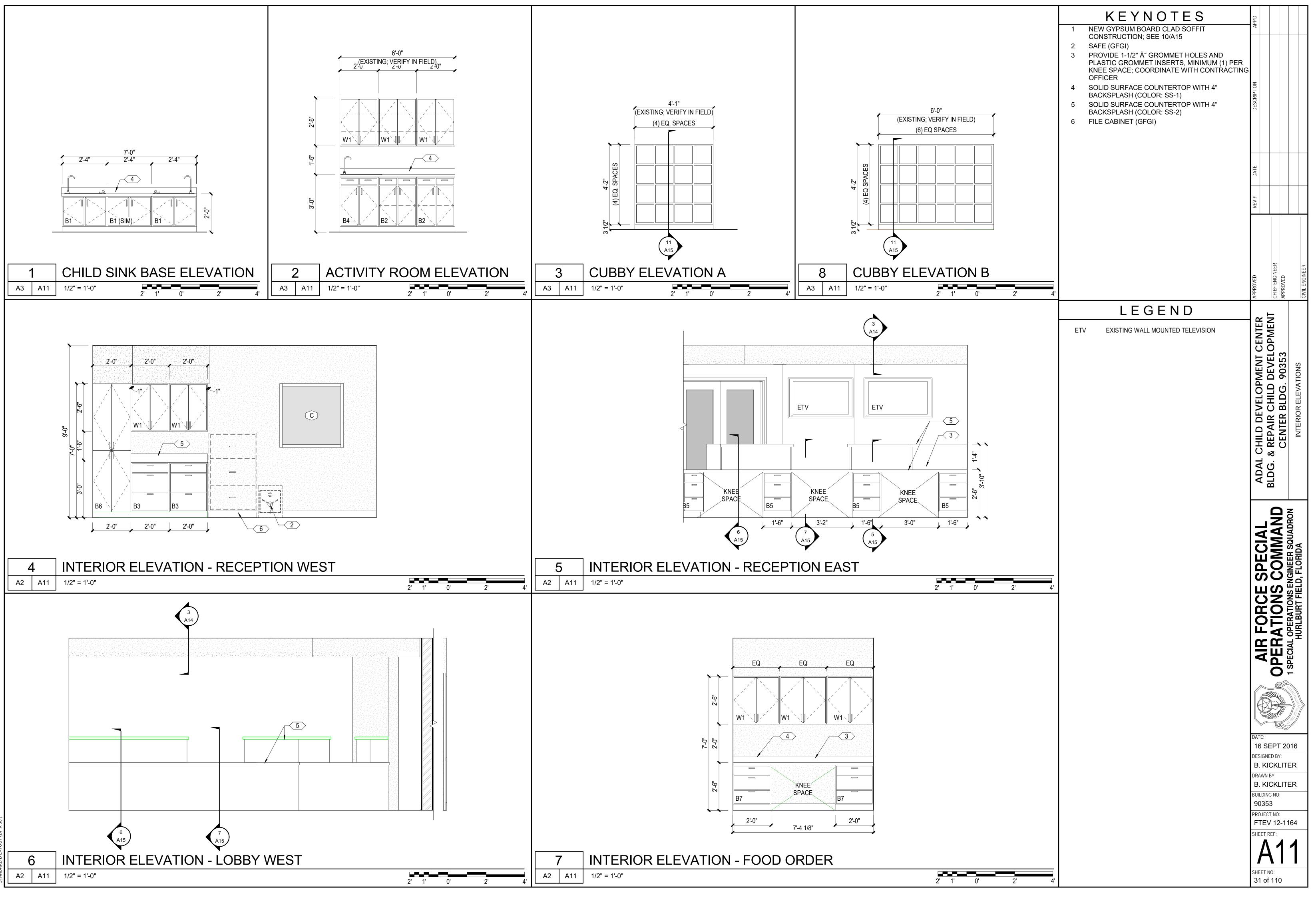


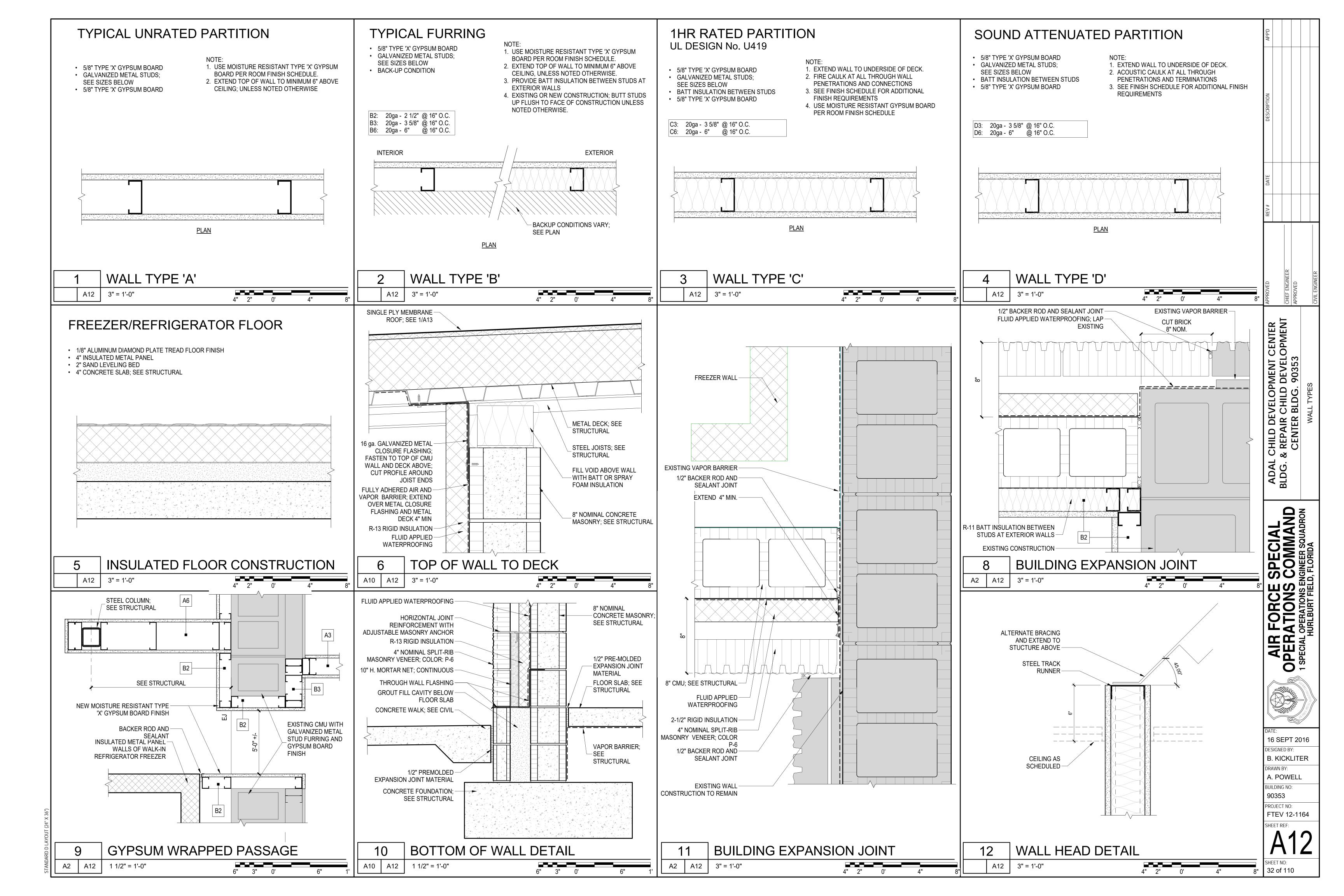


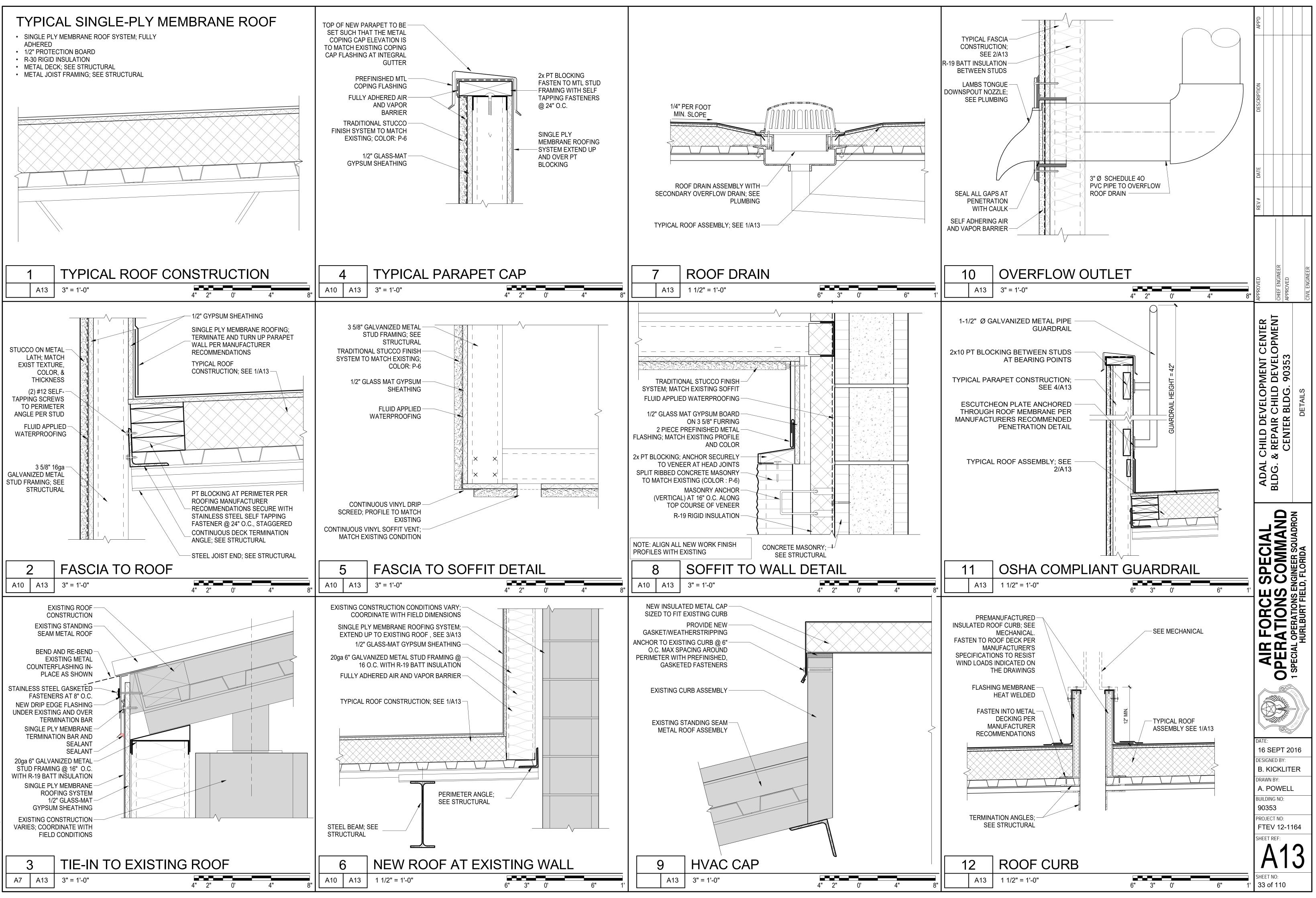
	 KEYNOTES 1 EXISTING ROOF CONSTRUCTION 2 4" NOMINAL SPLIT-RIBBED CONCRETE MASONRY UNIT; PAINT TO MATCH EXISTING; COLOR: P-6 3 LIGHT FIXTURES; SEE ELECTRICAL 	APP'D	
	 SINGLE PLY MEMRANE ROOFING SYSTEM; SEE 1/A13 FOR TYPICAL ROOF COMPOSITION KITCHEN EXHAUST HOOD; SEE EQUIPMENT PLAN AND MECHANICAL INSULATED METAL FLOOR PANEL OF WALK-IN FREEZER/REFRIGERATOR; SEE 5/A12 EXHAUST FAN; SEE MECHANICAL NEW ROOFTOP MOUNTED EXHAUST FAN AT EXISTING ROOF PENETRATION; SEE MECHANICAL EXISTING EQUIPMENT PEDESTAL/PLATFORM TO REMAIN AFTER REMOVAL OF ROOFTOP MOUNTED EQUIPMENT 	DESCRIPTION	
	 CAP AND SEAL WEATHERTIGHT EXISTING ROOF CURB WHERE EXHAUST FAN WAS REMOVED; SEE MECHANICAL AND 9/A13 6" CONCRETE FLOOR SLAB-ON-GRADE; SEE STRUCTURAL CONCRETE FOOTING; SEE STRUCTURAL 	REV # DATE	
		APPROVED CHIEF ENGINEER APPROVED	CIVIL ENGINEER
		ADAL CHILD DEVELOPMENT CENTER BLDG. & REPAIR CHILD DEVELOPMENT CENTER BLDG. 90353	BUILDING SECTION
		OPERATIONS COMMAND	HURLBURT FIELD, FLORIDA
	GENERAL NOTES 1. STEEL STRUCTURE, INCLUDING BEAMS, TRUSSES, BAR JOISTS, BRACING, COLUMNS AND METAL DECKING SHALL BE PAINTED WHERE EXPOSED.	16 SEPT 20 DESIGNED BY: B. KICKLITE DRAWN BY: A. POWELL BUILDING NO: 90353 PROJECT NO: FTEV 12-11 SHEET REF:	ĒR
4' 2' 0' 4' 8'		SHEET NO: 29 of 110)



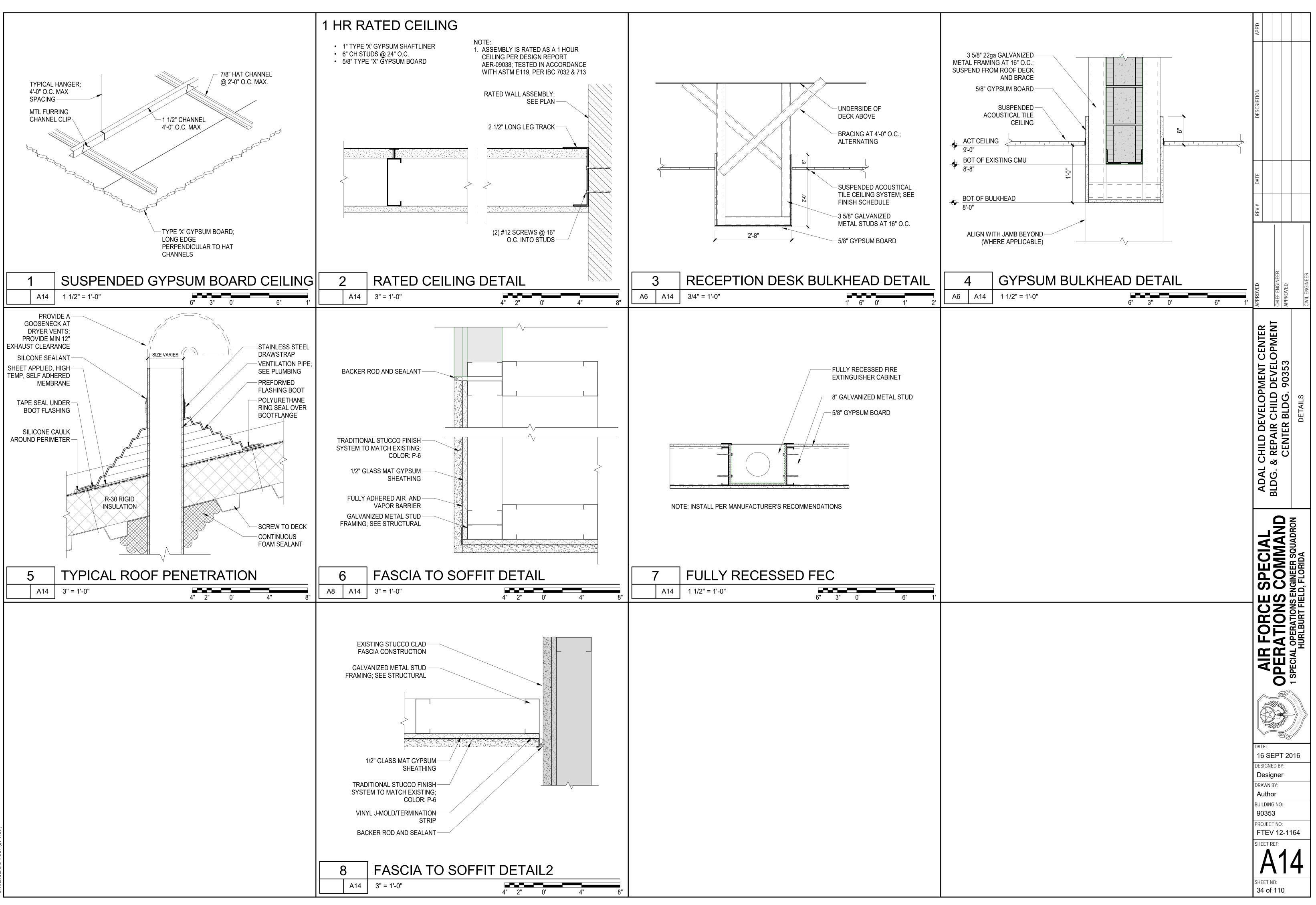
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	KEYNOTES	APP'D				
1	8" NOMINAL REINFORCED CONCRETE MASONRY UNIT BACK-UP WALL CONSTRUCTION; SEE	API				
2	STRUCTURAL 6" CONCRETE FLOOR SLAB-ON-GRADE; SEE					
3	STRUCTURAL GALVANIZED METAL STUD FASCIA CONSTRUCTION; SEE STRUCTURAL					
1	1/2" GLASS MAT GYPSUM SHEATHING	TION				
5	STUCCO FINISH SYSTEM TO MATCH EXISTING; COLOR P-6	DESCRIPTION				
6	EXISTING ROOF CONSTRUCTION	D				
7 3	EXISTING FLOOR SLAB 2 1/2" GALVANIZED METAL STUD FURRING AT 16"					
J	0.C.					
9 0	5/8" GYPSUM BOARD EXISTING WALL CONSTRUCTION					
1	BUILDING EXPANSION JOINT; PROVIDE 1/2"	DATE				
	BACKER ROD AND SEALANT BETWEEN NEW AND EXISITING CONSTRUCTION; PAINT TO MATCH	DA				
0	ADJACENT FINISHES	#				
2	PREFINISHED SHEET METAL PARAPET CAP FLASHING; ALIGN WITH EXISTING FLASHING;	REV				
3	SEE 4/A13 CONCRETE WALK; SEE CIVIL					
4	STEEL JOIST FRAMING; SEE STRUCTURAL					
5	R-13 RIGID INSULATION					
6 7	ROOF DRAIN, SEE CIVIL AND DETAIL 7/A13 SINGLE PLY MEMRANE ROOFING SYSTEM; SEE		~			
•	1/A13 FOR TYPICAL ROOF COMPOSITION		INEER			NEER
8	4" NOMINAL SPLIT-RIBBED CONCRETE MASONRY UNIT; PAINT TO MATCH EXISTING; COLOR: P-6	APPROVED	CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
9	FLUID APPLIED WATERPROOFING	APF	CHIE	APP		CIVI
0	INSULATED METAL CEILING PANEL OF WALK-IN FREEZER/REFRIGERATOR		⊢			
1	INSULATED METAL WALL PANEL OF WALK-IN FREEZER/REFRIGERATOR	ER	ENT			
2	INSULATED METAL FLOOR PANEL OF WALK-IN	CENTER	OPME			
3	FREEZER/REFRIGERATOR; SEE 5/A12 HORIZONTAL JOINT REINFORCEMENT WITH ROD	-		S		
3	AND PINTEL MASONRY ANCHORS; PROVIDE	DEVELOPMENT	DEVEI	353		
	ADJUSTABLE ANCHORS AT 16" O.C. EACH WAY, STAGGERED.	NE N	DE	606	SN	
4	ROOF DRAIN; SEE 7/A13; PROVIDE OVERFLOW DRAIN WITH INLET SET 2" ABOVE STORM DRAIN	OP	LD	Ū.	TIOI	
	IN SIMILAR DETAIL; EXTEND OVERFLOW DRAIN	/EL	CHI	BLD	SEC	
5	PIPE TO EMPTY AT UNDERSIDE OF SOFFIT PROVIDE 16GA GALVANIZED METAL CLOSURE			ER	WALL SECTIONS	
0	FLASHING AND APPLY MIN. 5" THICK CLOSED CELL SPRAY FOAM INSULATION; FIELD VERIFY		EPAIR	ENTE	3	
	CONDITIONS FOR PROPER APPLICATION;	CHILD	2	CE		
	FASTEN TO FACE OF EXISTING CMU WALL AND UNDERSIDE OF NEW ROOF DECK EDGE ANGLE		8			
6	METAL PIPE GUARDRAIL; SEE 11/A15	DA	Ŋ			
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					1 SPECIAL OPERATIONS ENGINEEH HURT RURT FIFT D FI ORI	;
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OIST	DECEMBERAL NOTES STRUCTURE, INCLUDING BEAMS, TRUSSES, BAR S, BRACING, COLUMNS AND METAL DECKING SHALL BE ED WHERE EXPOSED.	DATE: 16 DESIG	SEP NED B	T 20	016	;
OIST	STRUCTURE, INCLUDING BEAMS, TRUSSES, BAR S, BRACING, COLUMNS AND METAL DECKING SHALL BE	DATE: 16 DESIG B. H DRAW A. F	SEP NED B KICK	T 20 Y: LITI	016 ER	;
OIST	STRUCTURE, INCLUDING BEAMS, TRUSSES, BAR S, BRACING, COLUMNS AND METAL DECKING SHALL BE	DATE: 16 DESIC B. H DRAW A. F BUILD	SEP NED B KICK N BY: POW	T 20 Y: LITI	016 ER	;
OIST	STRUCTURE, INCLUDING BEAMS, TRUSSES, BAR S, BRACING, COLUMNS AND METAL DECKING SHALL BE	DATE: 16 DESIG B. P DRAW A. F BUILD 903	SEP NED B KICK N BY: POW	T 20 Y: LITI ELL	016 ER	;
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OIST	STRUCTURE, INCLUDING BEAMS, TRUSSES, BAR S, BRACING, COLUMNS AND METAL DECKING SHALL BE	DATE: 16 DESIG B. H DRAW A. F BUILD 903 PROJI FTE	SEP NED B KICK N BY: POW ING NC 53 ECT NC 53 ECT NC 53 ECT NC	T 200 Y: LITI D: 2-11	D16 ER 164	;
OIST	STRUCTURE, INCLUDING BEAMS, TRUSSES, BAR S, BRACING, COLUMNS AND METAL DECKING SHALL BE	DATE: 16 DESIG B. H DRAW A. F BUILD 903 PROJI FTE	SEP NED B KICK N BY: POW ING NC 53 ECT NC 53 ECT NC 53 ECT NC	T 20 Y: LITI	D16 ER 164	;
OIST	STRUCTURE, INCLUDING BEAMS, TRUSSES, BAR S, BRACING, COLUMNS AND METAL DECKING SHALL BE	DATE: 16 DESIG B. H DRAW A. F BUILD 903 PROJI FTE	SEP NED B KICK N BY: POW ING NC 53 ECT NC 553 ECT NC 553 ECT NC 553	T 200 Y: LITI D: 2-11	D16 ER 164	;



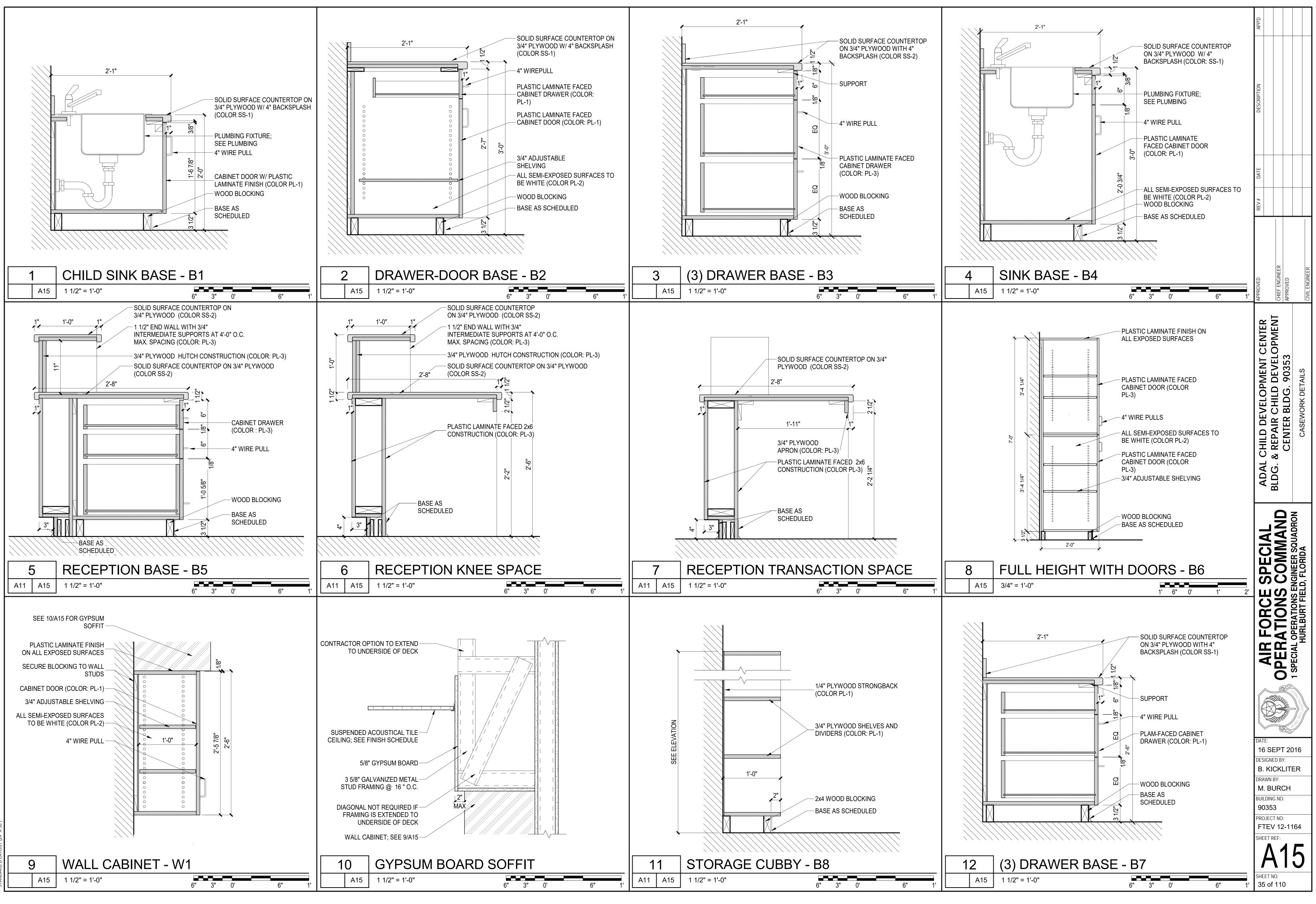




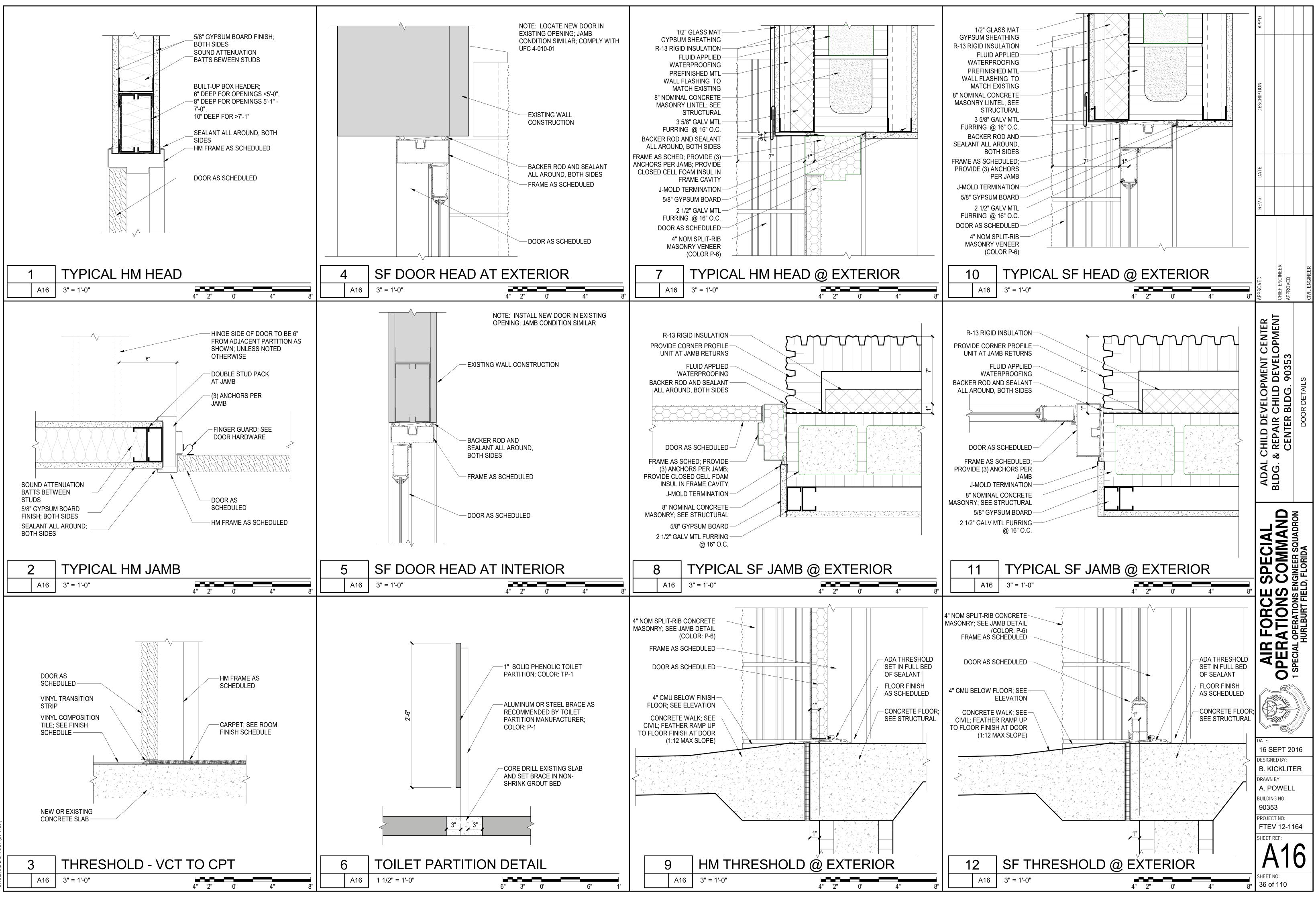
DARD D LAYOUT (24" X 36"



NDARD D LAYOUT (24" X 36")

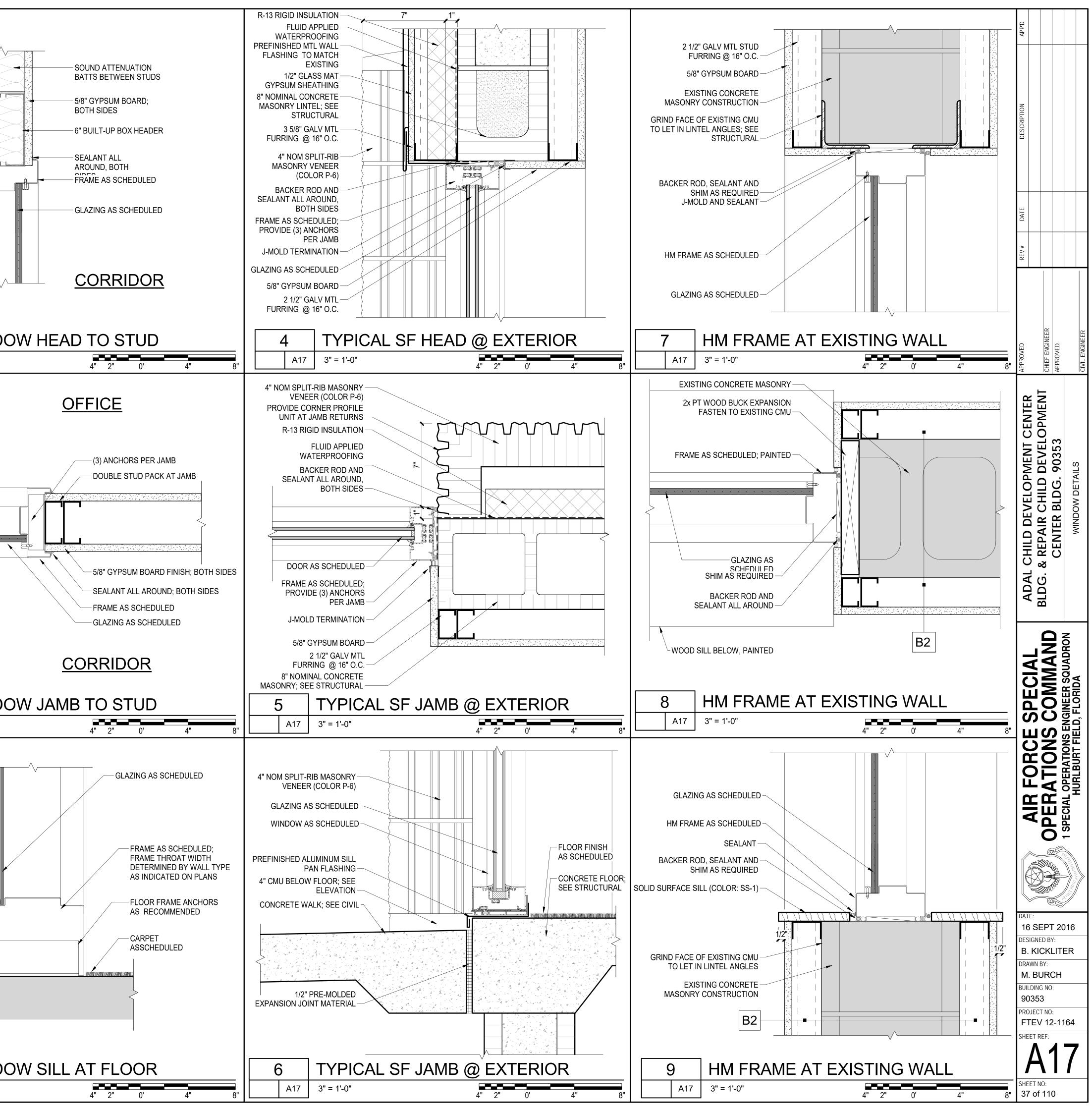


NDARD D LAYOUT (24" X 36'

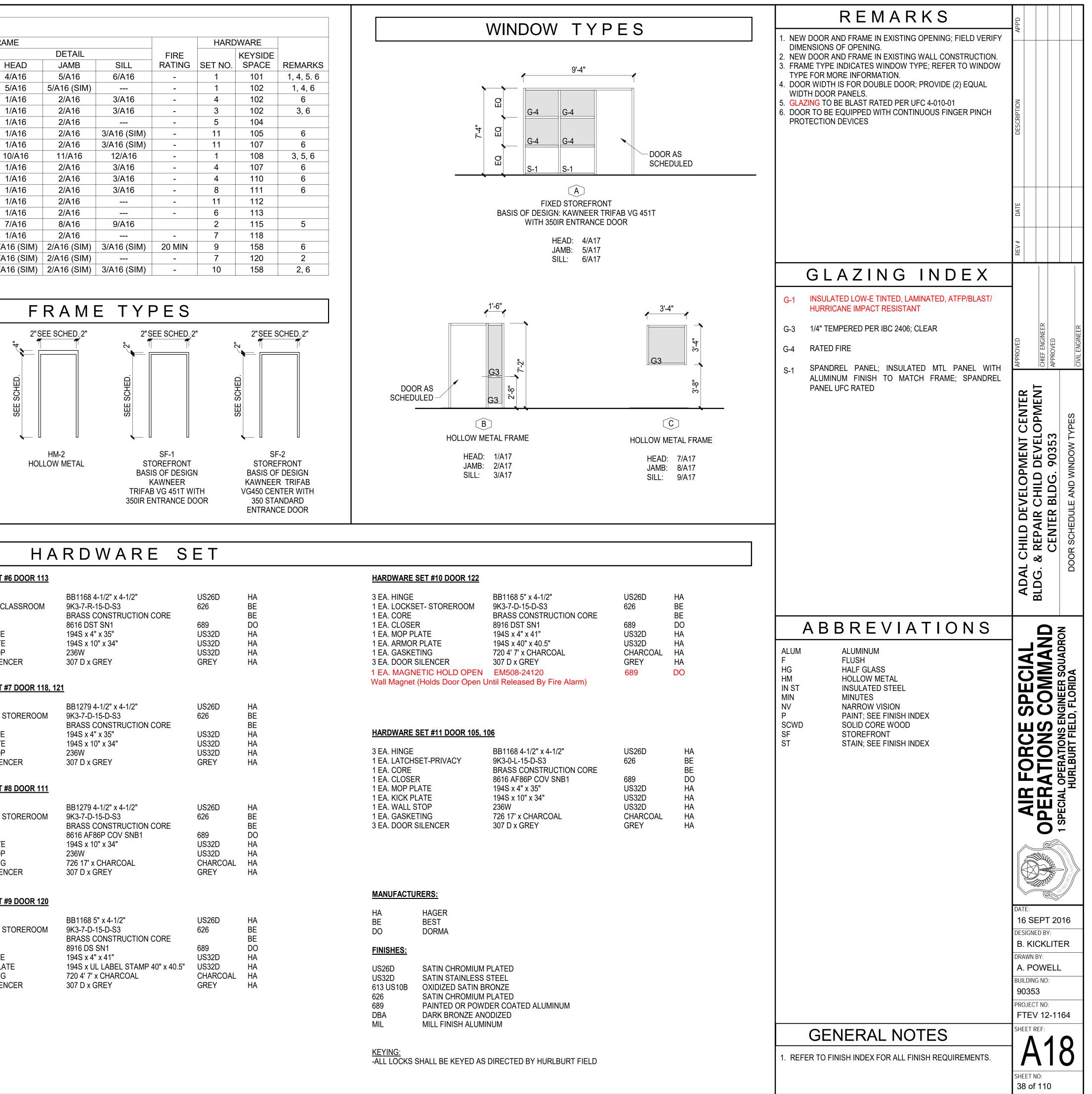


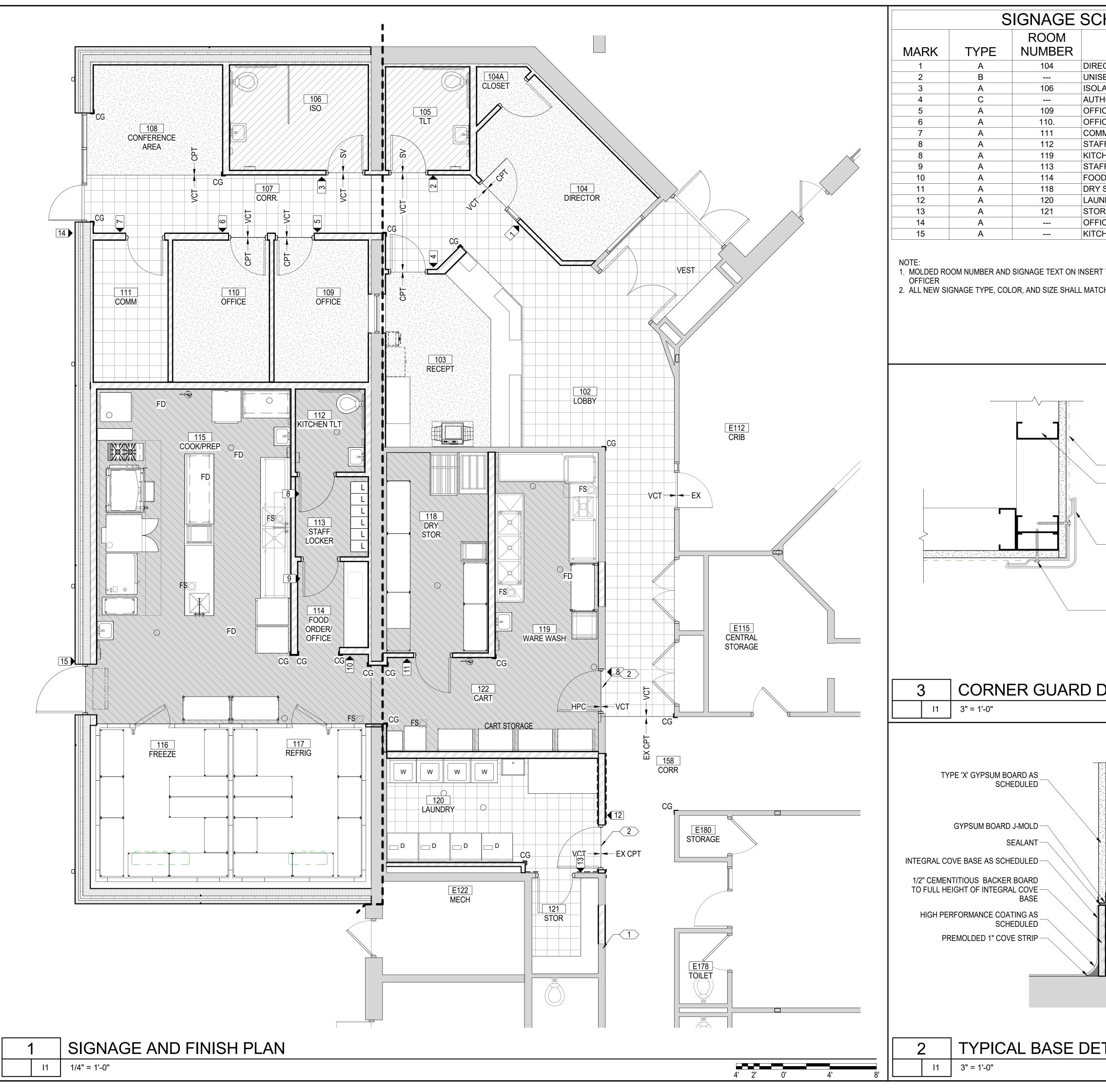


<u>OFF</u>	
1 A17	HM WINDC 3" = 1'-0"
2 A17	HM WINDC 3" = 1'-0"
3 A17	HM WINDC 3" = 1'-0"



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		SIZE									
MARK 101	WIDTH 6'-0"	HEIGHT 1 7'-2"	THICKNESS 1 3/4"	6 TYPE M SF	IATERIAL ALUM	FINISH U AL-1	JNDERCUT	GLAZING G-1	TYPE SF-1	MATERIAL ALUM	FINISH AL-1
101	6'-0"	7'-2"	1 3/4"	SF	ALUM	AL-1		G-1	SF-2	ALUM	AL-1 AL-2
103	3'-0"	7'-0"	1 3/4"		SCWD	ST-1		G-3	HM-1	STEEL	P-5
04A 04B	3'-0" 3'-0"	7'-0" 7'-0"	1 3/4" 1 3/4"		SCWD SCWD	ST-1 ST-1		G-3	B HM-1	STEEL STEEL	P-5 P-5
105	3'-0"	7'-0"	1 3/4"		SCWD	ST-1	3/4"		HM-1	STEEL	P-5
106	3'-0"	7'-0"	1 3/4"		SCWD	ST-1	3/4"	G-3	HM-1	STEEL	P-5
108 109	3'-0" 3'-0"	7'-2"	1 3/4" 1 3/4"	SF HG	ALUM SCWD	AL-1 ST-1		G-1 G-3	A HM-1	ALUM STEEL	AL-1 P-5
110	3'-0"	7'-0"	1 3/4"		SCWD	ST-1		G-3	HM-1	STEEL	P-5
111	3'-0"	7'-0"	1 3/4"		SCWD	ST-1		G-3	HM-1	STEEL	P-5
112 113	3'-0" 3'-0"	7'-0" 7'-0"	1 3/4" 1 3/4"		SCWD SCWD	ST-1 ST-1	3/4" 3/4"		HM-1 HM-1	STEEL STEEL	P-5 P-5
115	4'-0"	7'-0"	1 3/4"	HG	IN ST	P-4		G-1	HM-2	STEEL	P-4
118 120	3'-0" 3'-6"	7'-0" 7'-0"	1 3/4" 1 3/4"		SCWD SCWD	ST-1 ST-1		 G-4	HM-1 HM-1	STEEL STEEL	P-5 P-5
120	3'-0"	7'-0	1 3/4"		SCWD	ST-1 ST-1	3/4"	G-4 G-3	HM-1	STEEL	P-5 P-5
122	3'-6"	7'-0"	1 3/4"	HG	SCWD	ST-1		G-3	HM-1	STEEL	P-5
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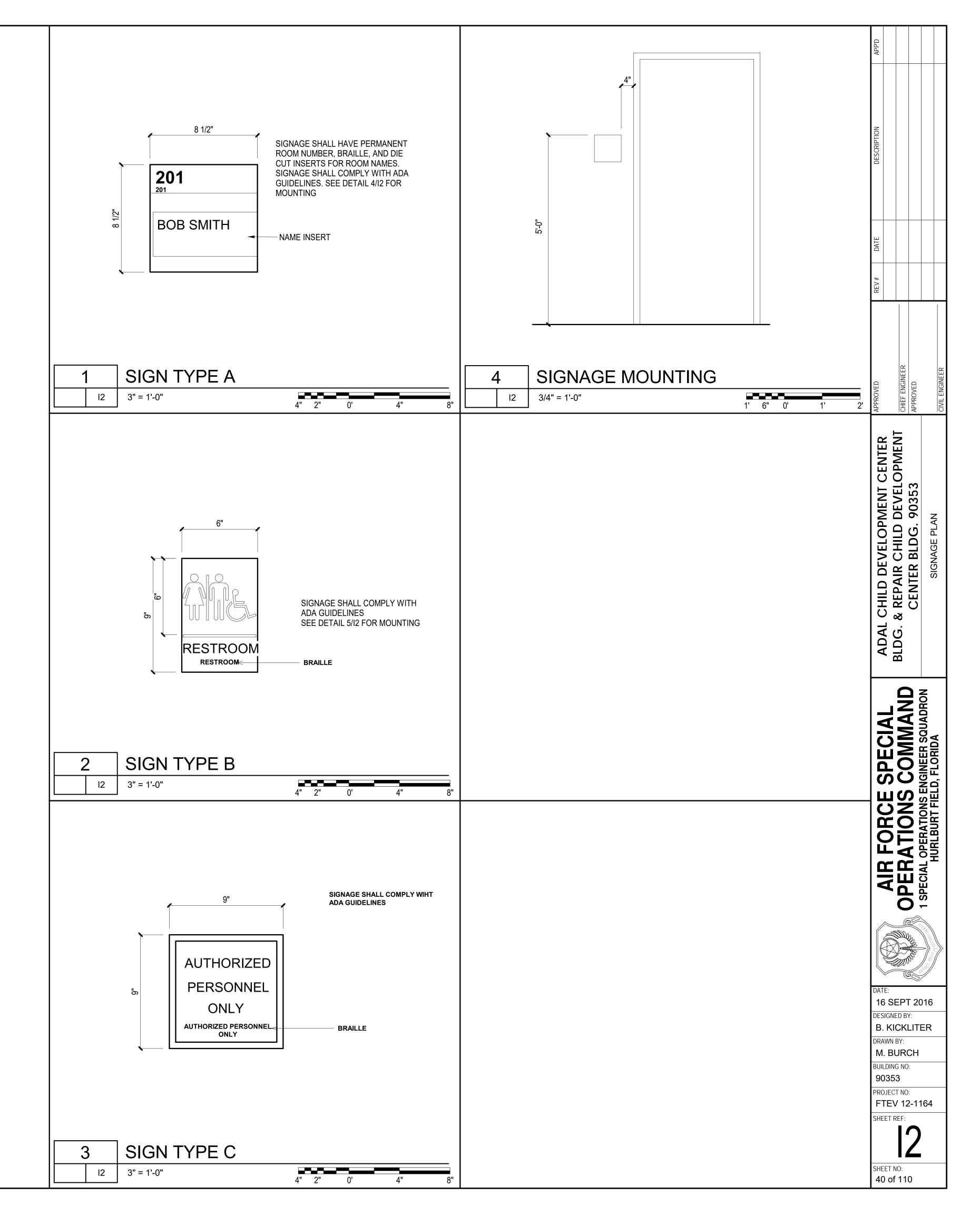




NDARD D LAYOUT

HEDULE	KEYNOTES	APP'D	
INSERT	1 CONTRACTOR TO MATCH EXISTING ADJACENT WALL TEXTURE AND PAINT COLORS TO ENSURE A SEAMLESS TRANSITION FROM		
CTOR[]	EXISTING TO NEW WORK 2 CONTRACTOR TO PATCH CARPET FLOORING		
SEX ATION	AS REQUIRED, WITH MATERIALS SALVAGED FROM OTHER LOCATIONS, TO MATCH EXISTING		
HORIZED PERSONNEL ONLY CE []	CONDITIONS. CONTRACTOR TO PROVIDE SMOOTH TRANSITION BETWEEN EXISTING	ESCRIPTION	
CE[] MUNICATIONS	CARPET AND PATCHED AREAS.	DESCRI	
FF TOILET HEN			
FF LOCKER			
D ORDER STORAGE			
NDRY RAGE		DATE	
CES HEN			
		REV #	
T TO BE COORDINATED WITH CONTRACTING	LEGEND		
CH EXISTING BUILDING SIGNAGE	10 SIGNAGE; SEE SIGNAGE SCHEDULE		
	CG CORNER GUARD; SEE 3/I1	ED GINEER	GINEER
		APPROVED CHIEF ENGINEER APPROVED	CIVIL ENGINEER
	VCT		O
		ENT	
NOTE: TO EXTEND FROM TOP OF BASE TO UNDERSIDE OF CEILING	HIGH PERFORMANCE COATING (HPC)	CENTER	
GEIEING	CARPET (CPT)	പ്പത	
		MENT ODEVEL	_
— FRP WAINSCOT, WHERE APPLICABLE — WALL ASSEMBLY AS SCHEDULED	SHEET VINYL (SV)	ان ۹ ۲	FINISH PLAN
	VINYL COMPOSITION TILE (VCT)		NISH
		HILD DE REPAIR CENTER	Ē
HIGH IMPACT VINYL CORNER GUARD WITH CONTINUOUS ALUMINUM CLEAT; COLOR TO			
BE SELECTED BY GOVT. FROM MANUFACTURER'S STANDARD PALETTE		AL C G. ^{&}	
		AD	
FASTENERS @ 8" O.C. MAX SPACING; SIZED — PER MANUFACTURER'S			
RECOMMENDATIONS			
		AAA	
DETAIL		L L L L L L L L L L L L L L L L L L L	
4" 2" 0' 4" 8"		SO SO SO	
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			BUR
		ЧЧ ЧЧ	
PROVIDE CONTINUOUS BLOCKING		A B B B B B B B B B B B B B B B B B B B	
TYPE 'X' GYPSUM BOARD AS SCHEDULED			
		DATE:	/
RUBBER BASE AS SCHEDULED		16 SEPT 20 DESIGNED BY:	16
		B. KICKLITE	ĒR
		M. BURCH	
		BUILDING NO: 90353	
		PROJECT NO: FTEV 12-11	64
		SHEET REF:	
TAILS		1	
		SHEET NO:	
4" 2" 0' 4" 8"		39 of 110	

3TANDARD D LAYOUT (24" X 36")



ROOM FINISH SCHEDULE FLOOR BASE WALLS CEILING																
		FLC	JOR	BA	SE				VVAI	LS				CE	ILING	
ROOM	1					NO	RTH	E	AST	SO	UTH	WE	EST			
No.	ROOM NAME	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	REMARKS
101	VESTIBULE	EX CONC	VCT-1	EX GB	RB-1	EX GB	P-1	EX GB	P-1	EX GB	P-1	EX GB	P-1		ACT-1	
102	LOBBY	EX CONC	VCT-1	EX GB/GB	RB-1	GB	P-1	EX GB	P-1	EX GB	P-1	GB	P-1		ACT-1	8
103	RECEPTION	EX CONC	CPT-1	EX GB/GB	RB-1	GB	P-1	GB	P-1	EX GB	P-1	GB	P-1	/GB	ACT-1/P-1	8
104	DIRECTOR	EX CONC	CPT-1	EX GB/GB/MRGB	RB-1	MRGB	P-1	GB	P-1	GB	P-1	GB	P-1		ACT-1	
104A	CLOSET	EX CONC	CPT-1	GB/MRGB	RB-1	MRGB	P-1	GB	P-1	GB	P-1	GB	P-1		ACT-1	
105	TOILET	EX CONC	SV-1	MRGB	RB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-3	5
106	ISOLATION	CONC	SV-1	MRGB	RB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-3	5
107	CORRIDOR	CONC	VCT-1	GB	RB-1	GB	P-1			GB	P-1				ACT-1	
108	CONFERENCE AREA	CONC	CPT-1/VCT-1	GB/MRGB	RB-1	MRGB	P-1	GB	P-1	GB	P-1	MRGB	P-1		ACT-1	1
109	OFFICE	CONC	CPT-1	GB	RB-1	GB	P-1	GB	P-1	GB	P-1	GB	P-1		ACT-1	
110	OFFICE	CONC	CPT-1	GB	RB-1	GB	P-1	GB	P-1	GB	P-1	GB	P-1		ACT-1	
111	TELECOMMUNICATIONS	CONC	VCT-1	GB/MRGB	RB-1	GB	P-1	GB	P-1	GB	P-1	MRGB	P-1		ACT-1	
112	KITCHEN TOILET	CONC	HPC-1	СВВ	ICB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-3	4,5
113	STAFF LOCKER ROOM	CONC	HPC-1	СВВ	ICB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2		ACT-2	4
114	FOOD ORDER/OFFICE	CONC	HPC-1	CBB	ICB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2		ACT-2	3,4
115	COOK/PREP	CONC	HPC-1	CBB	ICB-1	MRGB	P-2	MRGB	P-2	MFG		MRGB	P-2		ACT-2	3,4
116	FREEZER	MFG		MFG		MFG		MFG		MFG		MFG	MFG	MFG	MFG	
117	REFRIGERATOR	MFG		MFG		MFG		MFG		MFG		MFG	MFG	MFG	MFG	
118	DRY STORAGE	EX CONC	HPC-1	CBB	ICB-1	GB	P-2	GB	P-2	GB	P-2	GB	P-2		ACT-1	4
119	WARE WASH	EX CONC	HPC-1	CBB	ICB-1	EX GB	P-2	EX GB	P-2			MRGB	P-2		ACT-2	3,4,7
120	LAUNDRY	EX CONC	VCT-1	GB	RB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-3	6
121	STORAGE	EX CONC	VCT-1	GB	RB-1	MRGB	P-1	EX GB	P-1	EX GB	P-1	EX GB	P-1	MRGB	P-3	6
122	CART STORAGE	EX CONC	HPC-1	CBB	ICB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2		ACT-2	3
155	MECHANICAL ROOM	EX CONC		EX CMU		EX CMU		EX CMU		EX CMU		EX CMU				
158	CORRIDOR	EX CONC		EX GB	EX RB			EX GB	P-1	EX GB	P-1	GB/EX GB	P-1		ACT-1	8
165	ACTIVITY ROOM 16	EX CONC		EX GB		EX GB		EX GB		EX GB		EX GB			ACT-1	2
166	ACTIVITY ROOM 15	EX CONC		EX GB		EX GB		EX GB		EX GB		EX GB			ACT-1	2
168	ACTIVITY ROOM 14	EX CONC		EX GB		EX GB		EX GB		EX GB		EX GB			ACT-1	2
173	CORRIDOR	EX CONC		EX GB		EX GB		EX GB		EX GB		EX GB			ACT-1	2

FLOORS

<u>CPT</u> <u>C/</u> CPT-1	<u>ARPET</u> TANDUS CENTIVA STYLE: #01957 "CRAYON" COLOR: #48010 "PRECIOUS METAL"
	NYL COMPOSITION TILE (J & J LVT PRODUCTS STYLE: FRAMEWORK COLOR: #1014 "PARTITION" SIZE: 9" x 48"
· · · · · · · · · · · · · · · · · · ·	GH PERFORMANCE COATING DUR-A-FLEX DUR-A-GARD COATING SYSTEMS COLOR: #133 "SANDSTONE"
<u>SV S</u> SV-1	HEET VINYL ARMSTRONG MEDINTECH SHEET FLOORING COLOR: 88486 "CAMPANULA BLUFF"
BASE	
ICB ICB-1	INTEGRAL COVE BASE CENTRIA DURAGUARD COATING SYSTEMS COLOR: #133 "SANDSTONE" 6" INTEGRAL BASE WITH 1" COVE
<u>RB</u> RB-1	UBBER BASE JOHNSONITE 4" TRADITIONAL PROFILE COLOR: #32 "PEBBLE"
WALL	
<u>P</u> P-1 P-2	AINT SHERWIN WILLIAMS INTERIOR ACRYLIC LATEX COLOR: SW7036 "ACCESSIBLE BEIGE" SHERWIN WILLIAMS PRE-CATALYZED WATER BASED EPOXY
	COLOR: SW7036 "ACCESSIBLE BEIGE"
	<u>BERGLASS REINFORCED PANEL</u> MARLITE STANDARD FRP COLOR: P440N "BUSCUIT"
	6
	<u>COUSTICAL CEILING TILE</u> ARMSTRONG FINE FISSURED, SQUARE LAY-IN 24" x 24" - PRELUDE 15/16" GRID
ACT-2	COLOR: WHITE ARMSTRONG CERAMAGUARD FINE FISSURED, SQUARE 24" x 24" - PRELUDE 15/16" GRID COLOR: WHITE
P P/	AINT
P-3	SHERWIN WILLIAMS EMINENCE HIGH PERFORMANCE CEILING SHEEN: SATIN

SHEEN: SATIN COLOR: SW7006 "EXTRA WHITE "

FINISH INDEX

COUNTERTOPS AND MILLWORK

PL	PLASTIC LAMINATE CABINETS
PL-1	FORMICA
	COLOR: 5883-58 PECAN WOODLINE - MATTE FINISH
	(CLASSROOMS/KITCHEN)
PL-2	FORMICA
	COLOR: 933-58 MISSION WHITE - MATTE FINISH
	(SEMI-EXPOSED SURFACES)
PL-3	FORMICA
	COLOR: 6414-NG BLACK RIFTWOOD - NATURAL GRAIN
	(RECEPTION)
SS	SOLID SURFACE COUNTERTOP
<u>55</u> -1	

- SS-1 CORIAN TERRA COLLECTION COLOR: SAHARA
- (CLASSROOMS/KITCHEN) SS-2 CORIAN TERRA COLLECTION COLOR: PLATINUM (RECEPTION)

DOORS:

- STOREFRONT DOORS:
- AL-1 DARK BRONZE TO MATCH EXISTING
- AL-2 POWDER COAT FINISH COLOR: WHITE TO MATCH EXISTING
- WOOD DOORS: ST-1 CLEAR FINISHED NATURAL BIRCH; STAINED TO MATCH EXISTING SUBMIT SAMPLE FOR APPROVAL

- STOREFRONT FRAMES: AL-1 DARK BRONZE ANNODIZED TO MATCH EXISTING
- AL-2 POWDER COAT
- HOLLOW METAL DOOR FRAMES P-4 SHERWIN WILLIAMS (EXTERIOR) ALKYD INTERIOR ENÀMEL SHEEN: SEMI GLOSS
- COLOR: DARK BRONZE TO MATCH EXISTING P-5 SHERWIN WILLIAMS (INTERIOR) ALKYD INTERIOR ENAMEL SHEEN: SEMI GLOSS COLOR: WHITE TO MATCH EXISTING

EXTERIOR

- P PAINT P-6 SHERWIN WILLIAMS A-100 EXTERIOR ACRYLIC LATEX PAINT COLOR: SW 7712 "TOWNHOUSE TAN"
- AL-1 PREFINISHED ALUMINUM FLASHING AND TRIM DARK BRONZE TO MATCH EXISTING

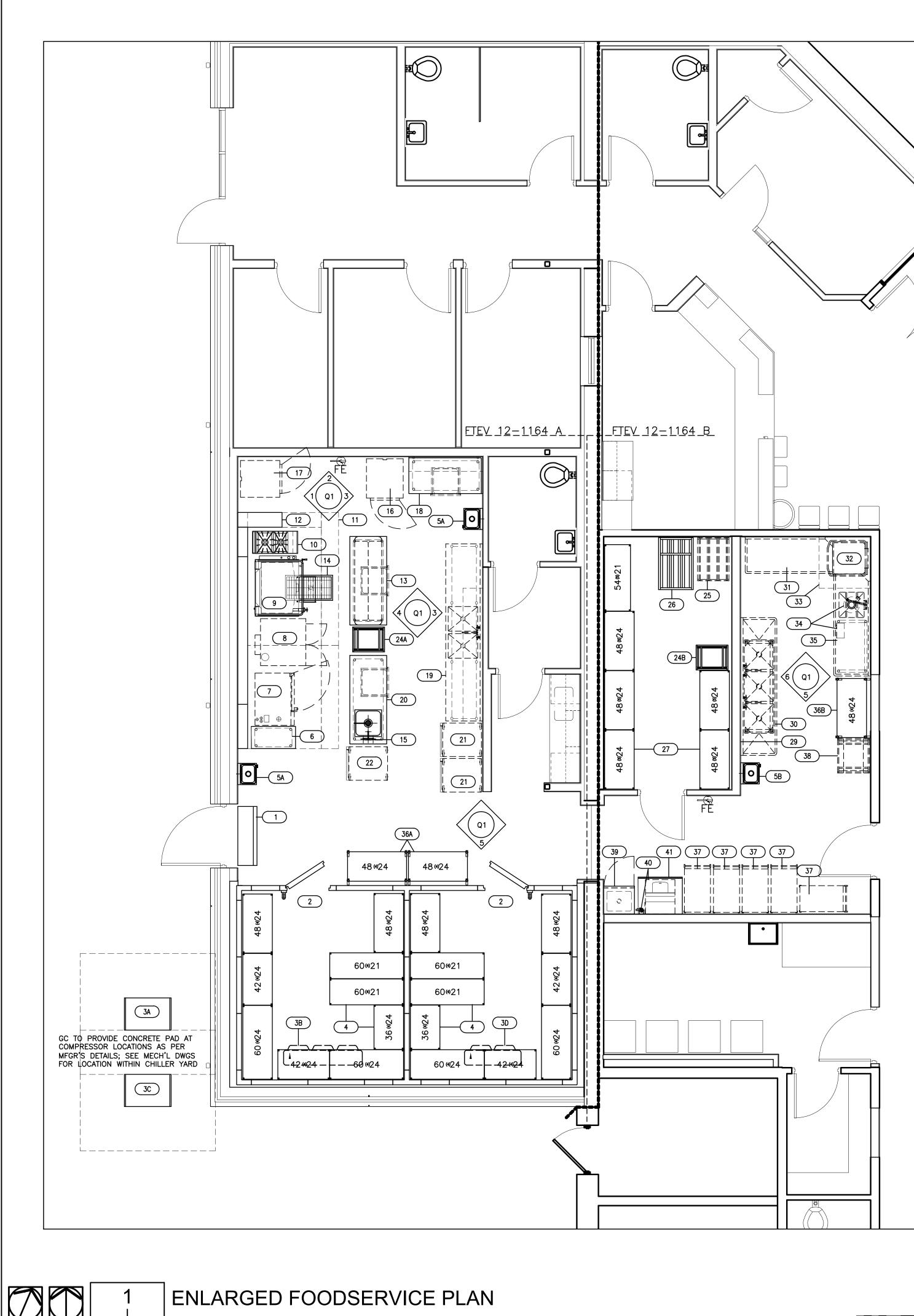
MISCELLANEOUS

- FRP FIBERGLASS REINFORCED PANEL FRP-1 MARLITE STANDARD FRP TEXTURE: PEBBLED SURFACE COLOR: P 440N "BUSCUIT"
- TP TOILET PARTITIONS TP-1 TO BE DETERMINED

, SQUARE LAY-IN

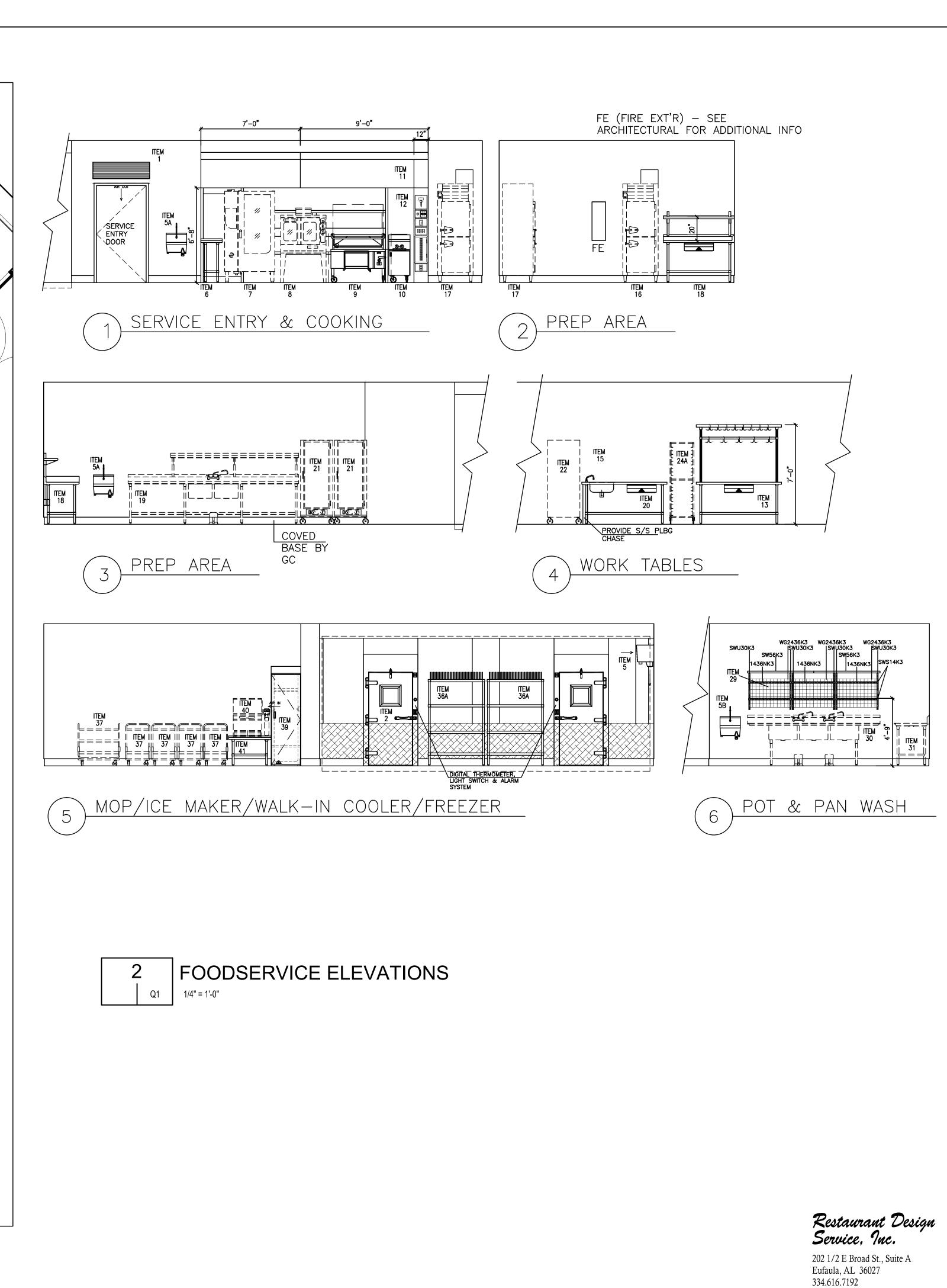


1. SEE SE					
1. SEE SE	REMARKS	U'dA			
EXTENT	E FLOOR PLAN, SHEET I2, FOR FLOOR FINISH FS.	4			
TILES O BASE, E	OF WORK IS LIMITED TO NEW CEILING GRID AN ONLY. ALL OTHER FINISHES (FLOOR, CEILING, ETC.) ARE EXISTING TO REMAIN; ADDITIONAL IS REQUIRED FOR OTHER DISCIPLINES,.	D			
COORD	INATE WITH ALL DISCIPLINES. T AT PORTIONS OF WALLS WHERE PERMANENT	7			
ETC.) AI	ES ARE UTILIZED (SINKS, SERVICE RACEWAYS, LL WALL SURFACES IN THIS SPACE ARE TO	DESCRIPTION			
4. SEE 2/I1	'E 4'-0" WAINSCOT; COLOR: FRP-1. 1 FOR INTEGRAL COVE BASE DETAIL.	DES	VSES		
6. SEE 10/	A12 FOR CEILING DETAIL. A12 FOR CEILING DETAIL.		RESPONSES		
8. REPAIR	L FLASHING ALL SURFACES AS REQUIRED WHERE WALL ING IS REMOVED TO A "LIKE NEW" CONDITION		PPIR		
	TO PAINTING)6.17		
		DATE	2021.06.17		
A	BBREVIATION	S #	-		
FLOORS CPT	CARPET	F			
CONC EX CONC	CONCRETE EXISTING CONCRETE				
MFG HPC VCT	MANUFACTURER MATERIAL OR FINISH HIGH PERFORMANCE COATING VINYL COMPOSITION TILE				
SV	SHEET VINYL			NEER	VEER
<u>BASE</u> EX	EXISTING	APPROVED		CHIEF ENGINEER APPROVED	CIVIL ENGINEER
EX CMU EX GB	EXISTING GYPSUM BOARD	F			
CBB GB	CEMENTITIOUS BACKER BOARD GYPSUM BOARD				
ICB MRGB RB	INTEGRAL COVE BASE MOISTURE RESISTANT GYPSUM BOARD RUBBER BASE				
EX RB	EXISTING RUBBER BASE			n G G	DN:
WALLS EX GB	EXISTING GYPSUM BOARD			. 90353	FINISH SCHEDULE AND LEGEND
GB MRGB	GYPSUM BOARD MOISTURE RESISTANT GYPSUM BOARD		2 C 2 C	ם ה ני ב	AND
P MFG	PAINT MANUFACTURER	į		BLDG	OULE
<u>CEILING</u> ACT	ACOUSTIC CEILING TILE	i			CHEL
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P MFG	PAINT MANUFACTURER			∠ () ४	FIN
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 CONTRA AND CO INSTALL WHERE RESPON CONTRA SELECT IF MATE CONTRA SUBSTIT CONTRA IF MATE CONTRA IF MATE CONTRA IF MATE CONTRA SCHEDU ALL GYF ADDITIC RESISTA UNLESS AS RATE THE WA PRESEN WALLS DAMPEF NOT REG MANUFA DESIGN TO ANY CONTRA LAMINA 	ACTOR SHALL VERIFY ALL EXISTING MATERIALS DLORS INDICATED TO MATCH THE EXISTING ATION INDICATED, "MATCH EXISTING," IT SHALL BE TH VSIBILITY OF THE CONTRACTOR TO PROVIDE TH ACTING OFFICER WITH THE APPROPRIATE 'ION FOR REVIEW AND APPROVAL. :RIAL SELECTIONS ARE NO LONGER AVAILABLE, ACTOR SHALL PROVIDE EQUAL VALUE TUTIONS FOR REVIEW AND APPROVAL TO THE ACTING OFFICER. OR FACE OF ALL NEW EXTERIOR WALLS SHALL E I'RE RESISTANT GYPSUM BOARD. ADDITIONAL ONS ARE REQUIRED PER ROOM FINISH JLE. PSUM BOARD SHALL BE TYPE 'X' RATED. ONAL PROPERTIES OF MOISTURE OR IMPACT ANCE WILL ALSO APPLY WHERE INDICATED. S THE WALL OR CEILING ASSEMBLY IS INDICATE ED, NO ADDITIONAL WORK IS REQUIRED TO MAI ALL OR CEILING A RATED ASSEMBLY DUE TO THE VACE OF TYPE 'X' GYPSUM BOARD (I.E. UNRATED TO EXTEND TO UNDERSIDE OF DECK AND FIRE RS ARE NOT REQUIRED, INTUMESCENT PAINT IS QUIRED, ETC.) ACTURERS PRODUCTS LISTED ARE BASIS OF AND ARE NOT INTENDED TO LIMIT CONTRACTO SOLE SOURCE PRODUCT OR MANUFACTURER. INATE WITH REQUIREMENTS OF PROJECT ICATIONS. ACTOR SHALL PROVIDE DIRECTION OF PLASTIC TE GRAIN ON ALL SHOP DRAWINGS FOR FINAL		AIR FORCE SPECIAL AIR FORCE SPECIAL	SNOLLARADO DERT 20 D BY: CKLITE ST DIC 12-11 EF: CKLITE ST DIC 12-11	



TRUE PROJECT NORTH NORTH

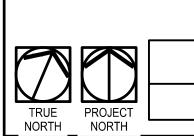
1/4" = 1'-0" Q1



ADAL CHILD DEVELOPMENT CENTER BLDG. & REPAIR CHILD DEVELOPMENT CENTER BLDG. 90353 Ш П Ш AIR FORCE SPECIAL OPERATIONS COMMAND I SPECIAL OPERATIONS ENGINEER SQUADRON HURLBURT FIELD, FLORIDA -DATE: 16 SEPT 2016 DESIGNED BY: L. HOWARD DRAWN BY: L. HOWARD BUILDING NO: 90353 PROJECT NO: FTEV 12-1164 SHEET REF: THIS DRAWING IS THE PROPERTY OF RESTAURANT DESIGN SERVICE, INC. ANY REUSE OF THIS DESIGN, IN PART OR WHOLE, IS PROHIBITED. SHEET NO: 42 of 110

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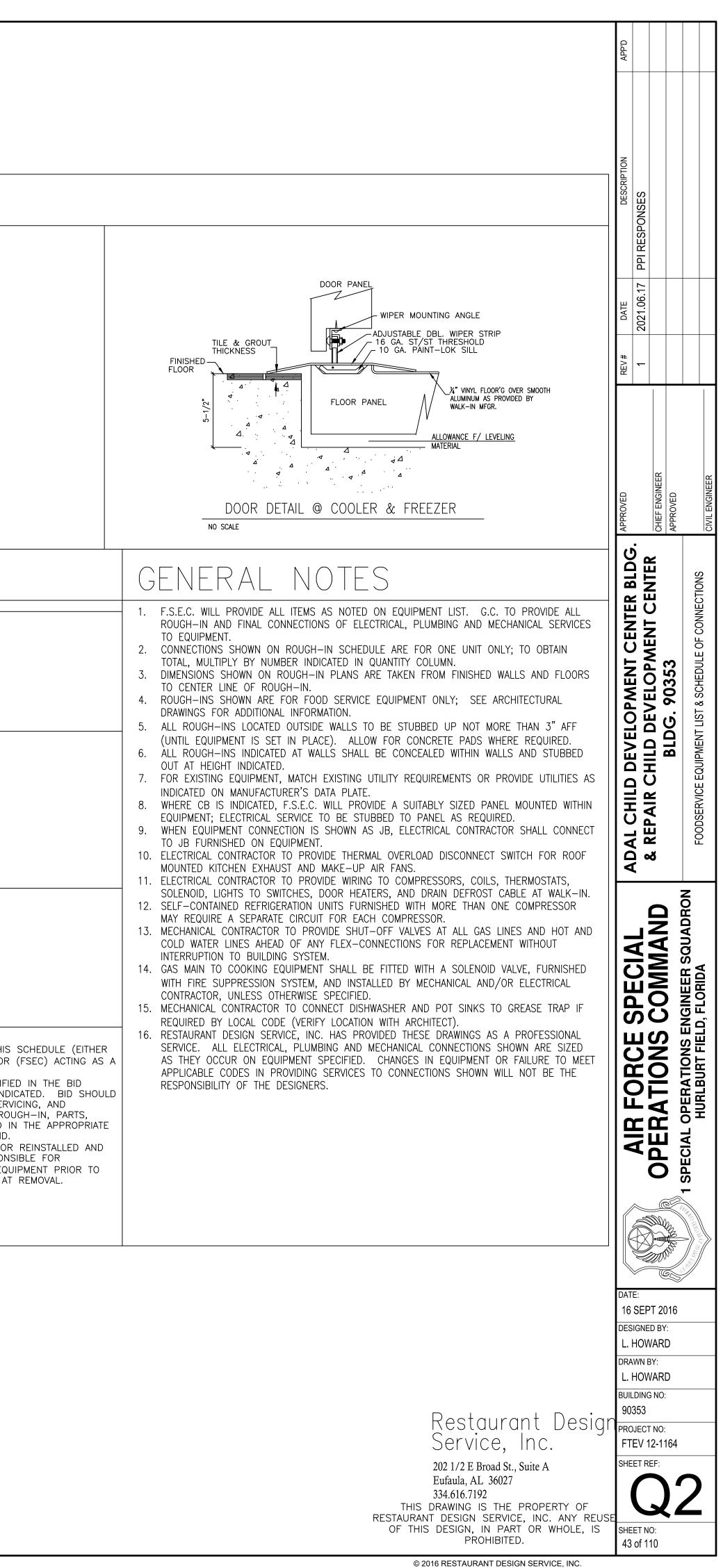
EQU	IIPM	ENT LIST AN		SCHE	-				F	$\left[\right] \left[\right]$		ECTIONS		DETAILS	
	T. (CFCI) ELOCATED - RELOCATED	INST. (GFCI)	ELECTRICAL					GAS	WATER		WASTE				
QUANTITY QUANTITY FTEV 12-1164 A	FTEV 12-1164 B CONT. FURN., CONT. INS EXIST. REAL PROP R EXIST. NON-REAL PROP.	DESCRIPTION	VOLTAGE	PHASE AMPS KILOWATTS	HORSEPOWER	DIRECT	PLUG	INLET SIZE B.T.U. (X 1000)	COLD	DIRECT	INDIRECT	REMARKS			12" FLOOR LEVEL
1 1		AIR CURTAIN	120	1 9		Х						MARS AIR SYSTEMS # HV248–1UA–TS			
		WALK-IN COOLER/FREEZER	120	1 10		Х						MASTER-BILT		I	
		WALK-IN REFRIGERATION F/ FREEZER	208-230	3	3	X						MASTER-BILT # MHLZ0121C MCA-21 MOP-30 RLA-12 LRA-85			¥
		/ FREEZER EVAPORATOR) WALK—IN REFRIGERATION F/ COOLER	208–230 208–230	3	1 1/2	X					FS	MASTER-BILT # E1LZ0120B AMPS; 1.4 FAN 13.0 DEFROST MASTER-BILT #MHHZ0171C MCA-14 MOP-20 RLA-7 LRA-51			<u>4"</u> O.D. [▲]
		COOLER EVAPORATOR	120	1 1.8	1 1/2	X					FS	MASTER-BILT # MHHZ0171C MCA-14 MOP-20 RLA-7 LRA-51 MASTER-BILT # E1HZ0131A			0.0.
		WALK-IN SHELVING	120									METRO			
2		K HAND SINK							1/2" 1/2	2" 1-1/2		ADVANCE TABCO # 7-PS-62		FLOOR I NO SCALE	ROUGH DETAIL – ITEM 55
1		HAND SINK							1/2" 1/2	2" 1–1/2	."	ADVANCE TABCO # 7-PS-62			
) SPACER TABLE										ADVANCE TABCO # FMS-363 MOD			
		COMBINATION OVEN	120	1 12.5				3/4" 123			FS	HENNY PENNY TWO WATER CONNECTIONS		LEGEND	
			120	1 8.0				3/4" 45	1/2" 1/2	,»		BLODGETT	CODE		SYMBOL EXPLANATION
		2 EYE RANGE	120				H	3/4" 120 -1/4" 66				VULCAN # VG40 VULCAN # V2B18B	ESC		
) EXHAUST HOOD	120	1 10		x	'	-1/4 00				CAPTIVE AIRE # 6030 ND-2-PSP-F SEE EQUIP'T NOTE # 4	JB	JUNCTION BOX	RUN CONDUIT IN WALL. TERMINATE AT HEIGHT INDICATED: ELECTRICIAN TO CONNECT TO EQUIPMENT
		UTILITY DISTRIBUTION SYSTEM	120/208	3		X	1	-1/4"	3/4" 3/4	,"		CAPTIVE AIRE SEE EQUIP'T NOTE # 5	PI CB	PLUG-IN CONNECTION CIRCUIT BREAKER PANEL	
1(WORK TABLE PER OUTLI		1 20		Х		,				ADVANCE TABCO # SS-306 PWR F/ TBL MTD OUTLETS	v	VOLTS	
1		FLOOR TROUGH DRAIN									4"	ADVANCE TABCO # FTG-1836	Ø AMP	PHASE AMPERES	STUB CONDUIT 3" AFF: ELECTRICIAN TO CONNECT TO EQUIPMENT
1) FILL FAUCET							1/2" 1/2			FISHER # 57657	ĸw	KILOWATTS	
1		REACH-IN REFRIGERATOR	120	1 9.4			<u> </u>					TRAULSEN # RLT132WUT OWNER CONVERTED TO REFER	HP CW	HORSEPOWER COLD WATER	/
		REACH-IN REFRIGERATOR	120	1 7.0			<u> </u>					TRAULSEN # RHT132WUT		HOT WATER	RUN PIPE IN WALL AND STUB OUT WALL FACE AT HEIGHT INDICATED. PROVIDE C SERVICE SHUT-OFF VALVE AHEAD OF
		/ WORK TABLE PREP TABLE W/ SINKS & FILL FAUCET							1/2" 1/2	,"	FS	ADVANCE TABCO # KSS-305	w	WASTE GAS	Final connection
		WORK COUNTER W/ SINKS & FILL FAUCET	T 120	1 20		x			1/2 1/2		FS	UNIVERSAL STAINLESS 30" X 12'-0" W/ FILL FAUCET ADVANCE TABCO # SS-306 PWR F/ TBL MTD OUTLETS	FD	FLOOR DRAIN	- STUB PIPE OUT OF FLOOR TO HEIGHT AFF AS INDICATED. PROVIDE SERVICE
2		HEATED CABINET	120	1 16.7			x					METRO # C539 HDS U	FS FLD	Floor sink Funnel drain	♀ SHUT-OFF VALVE AHEAD OF FINAL CONNECTION
		HEATED CABINET	120	1			X					METRO	HBD	HUB DRAIN	DRAIN IN FLOOR AS INDICATED
		SPARE NUMBER											AFF	ABOVE FINISHED FLOOR	
1		PAN RACK											K.E.C. G.C.	KITCHEN EQUIPMENT CONTRACTOR GENERAL CONTRACTOR	
		PAN RACK													
) CAN STORAGE RACK											EQU	UIPMENT NOTES -	
		CAN RACK										CHANNEL MANUFACTURING # CSR-156		ELECTRICIAN SHALL PROVIDE CORE ITEM 33, VAPOR HOOD	AND PLUG AS REQUIRED.
		DRY STORAGE SHELVING SPARE NUMBER										METRO		EXISTING TO REMAIN AS INSTALLED	, NEW DUCT & FAN BY MECHANICAL.
LOT		WALL GRID SYSTEM										METRO		ITEM 11, EXHAUST HOOD (2 SECT HOOD # 1 - 1600 EXHAUST CFM	@ -0.566" S.P. 1448 SUPPLY CFM @ 0.197" S.P.
		3 COMPARTMENT SINK W/ FAUCETS							3/4" 3/4	,"	FS	UNIVERSAL STAINLESS	5.	HOOD # 2 - 1400 EXHAUST CFM ITEM 12, UTILITY DISTRIBUTION SYS	◎ -0.537"S.P. 1260 SUPPLY CFM ◎ 0.177"S.P. STFM
1		CLEAN DISHTABLE												TOTAL CONNECTED LOAD - 120/2	08 V 6.8 KW 18.9 AMPS 354 MBH
1 (DISHWASHER	208-240	3 24.9		Х			3/4	,"	FS	HOBART # AM-15		SERVICE SIZE - 120/208 V TOU	AMPS 1-1/4" N GAS 960 MBH
		BOOSTER HEATER	208-240	3 55.9 13		Х						HOBART # AM-15	NOTE		
		CONDINSATE HOOD							4 (0.2)			CAPTIVE AIRE SEE EQUIP'T NOTE # 2			PONSIBLE FOR PROVIDING ALL EQUIPMENT IN THIS RTS OR BY FOODSERVICE EQUIPMENT CONTRACTOR
			208	3 6.2	1.5	X			1/2" 1/2" 1/2	," 2"		SALVAJOR # 150-SA-ARSS		SUB-CONT'R).	IN THIS SCHEDULE IS TO BE SEPARATELY IDENTIF
		SOILED DISHTABLE W/ PRE-RINSE							1/2" 1/2	·		METRO # PR48VX3		ACCORDING TO THE PROJEC	T NUMBER AND TO THE FUNDING SOURCE AS IN
		DRYING RACK										METRO # PR48VX3		REINSTALLATION OR HOOK-	JIPMENT, IF APPLICABLE, CLEANING, STORAGE, SER JP TO UTILITIES AS REQUIRED. PROVISION FOR RO
LOT		PORTABLE CART												DIVISION FOR BUILDING COS	TO CONNECT EQUIPMENT SHOULD BE INCLUDED TAND SHOULD NOT BE PART OF EQUIPMENT BID
1		DISH RACK STORAGE RACK												ALL RELOCATED EQUIPMENT	SHALL BE STORED, CLEANED, RELOCATED AND/O S AS REQUIRED. CONTRACTOR SHALL BE RESPO
1		MOP CLOSET							1/2" 1/2	,"	2"	ADVANCE TABCO # 9–0PC–84		DOCUMENTING CONDITION (I	NCLUDING OPERATION/FUNCTIONALITY) OF SAID EC
1) ICE MACHINE W/ STORAGE BIN & FILTER	120	1 6.1			Х		1/2"		FS	HOSHIZAKI # KM-201BAH		REMOVAL AND INSURE IT IS	RETURNED IN SAME OR BETTER CONDITION AS A
		EQUIPMENT STANT										ADVANCE TABCO # ES-303			

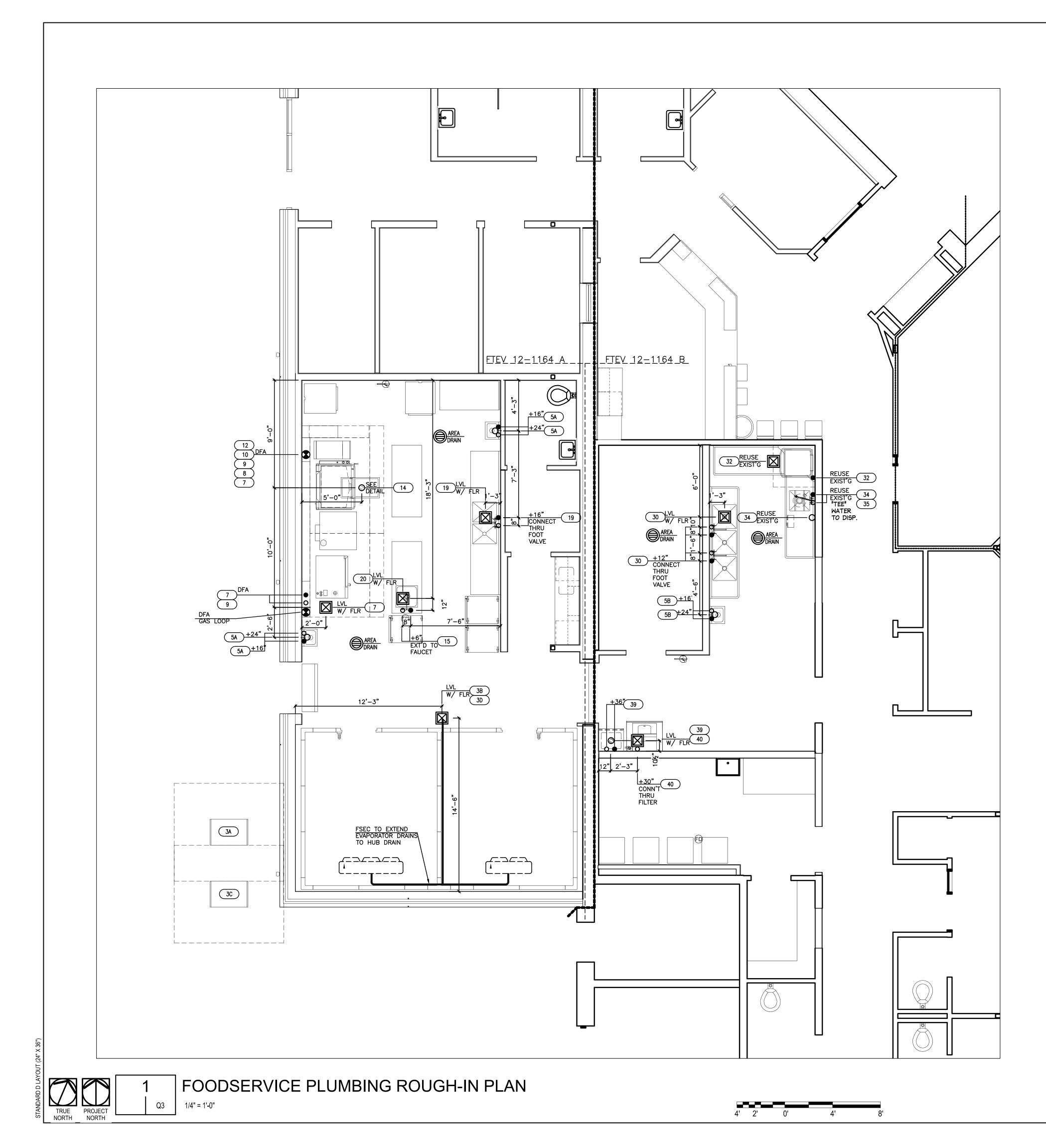


Q2

FOODSERVICE EQUIPMENT LIST & SCHEDULE OF CONNECTIONS

4' 2' 0' 4' 8'



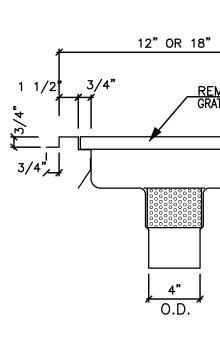


PLUMBING LEGEND

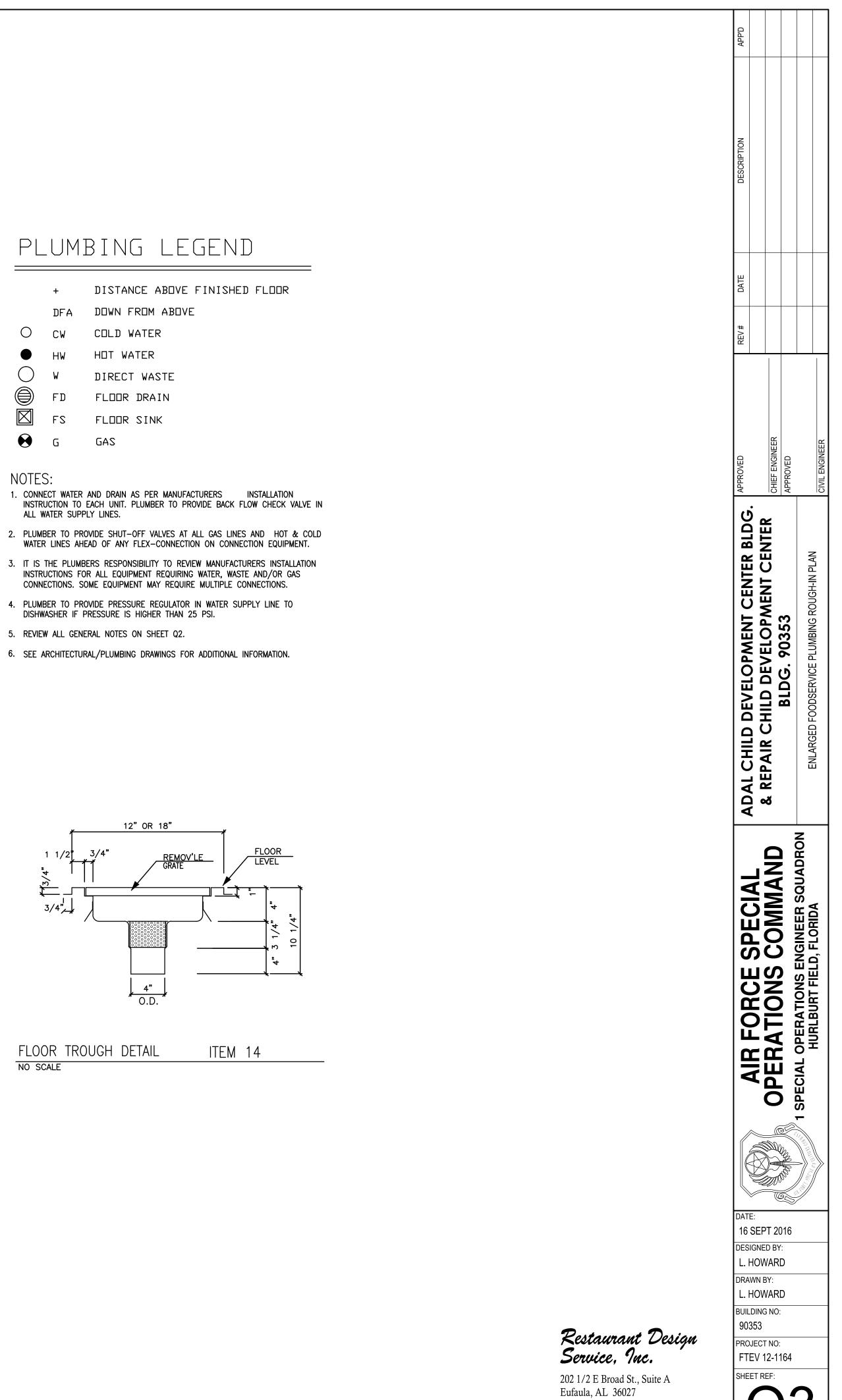
	+	DISTANCE 4
	DFA	DOWN FROM
0	CW	COLD WATER
\bullet	НW	HDT WATER
\bigcirc	W	DIRECT WAS
	FD	FLOOR DRA
\bowtie	FS	FLOOR SIN
${\color{black}\textcircled{}}$	G	GAS

NOTES:

- 3. IT IS THE PLUMBERS RESPONSIBILITY TO REVIEW MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ALL EQUIPMENT REQUIRING WATER, WASTE AND/OR GAS CONNECTIONS. SOME EQUIPMENT MAY REQUIRE MULTIPLE CONNECTIONS.
- 4. PLUMBER TO PROVIDE PRESSURE REGULATOR IN WATER SUPPLY LINE TO DISHWASHER IF PRESSURE IS HIGHER THAN 25 PSI.
- 5. REVIEW ALL GENERAL NOTES ON SHEET Q2.
- 6. SEE ARCHITECTURAL/PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

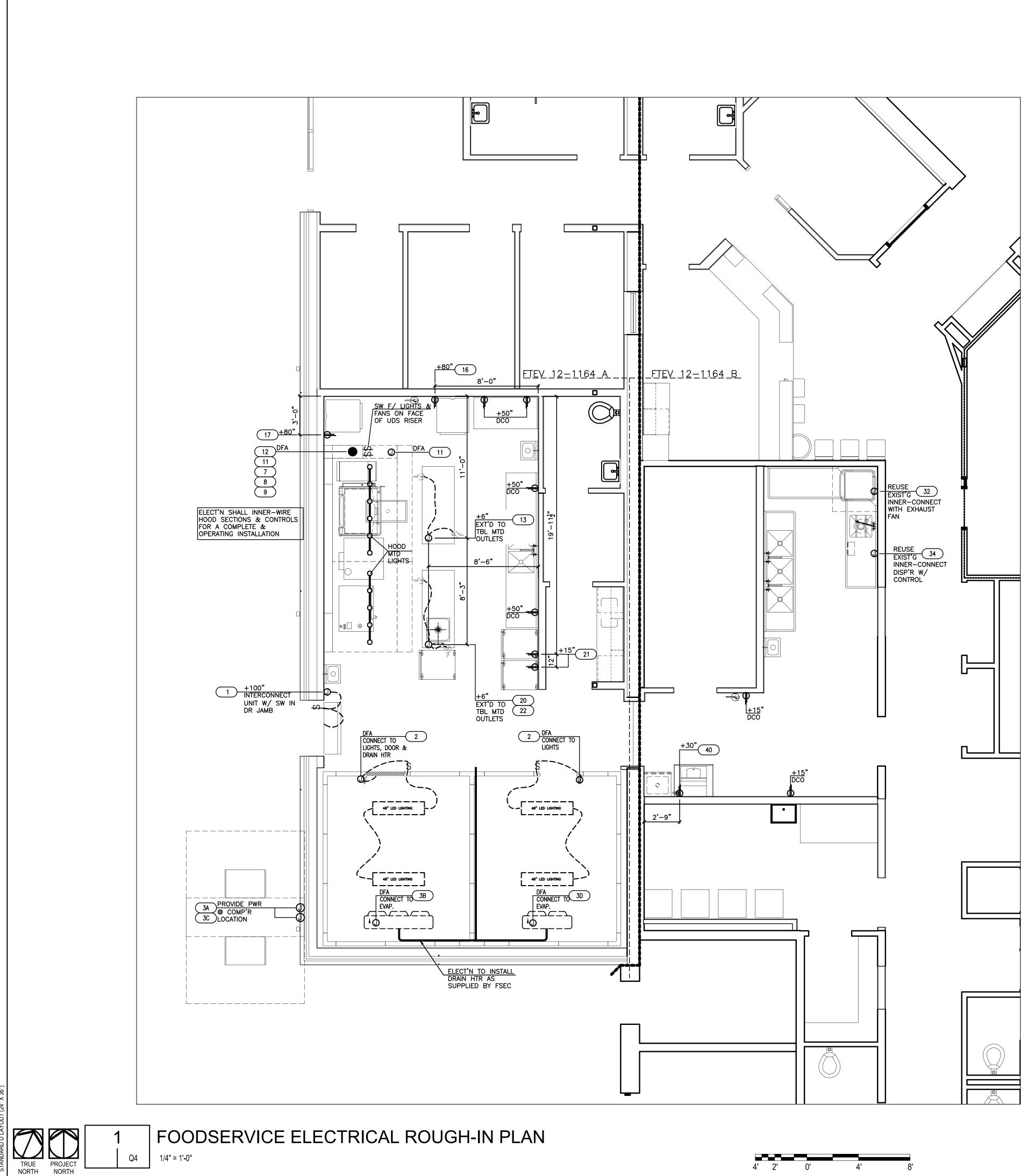


FLOOR TROUGH DETAIL NO SCALE



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NOTES:

CONVENIENCE OUTLETS .

- 3. REVIEW GENERAL NOTES, SHEET Q2.
- SYSTEM.
- FIRE CODE.

ELECTRICAL SYMBOL LEGEND

DISTANCE ABOVE FINISHED FLOOR DISTANCE DOWN TO A.F.F. JUNCTION BOX CONNECTION DUPLEX RECEPTACLE SINGLE RECEPTACLE FIXTURE MOUNTED LIGHT MAIN POWER SUPPLY - CONNECT TO SERVICE BOXES WITHIN CABINET SWITCH PHONE JACK

1. ELECTRICIAN TO PROVIDE BRUSHED S/S COVER PLATES AT ALL SERVICE AND

2. IT IS THE ELECTRICIAN'S RESPONSIBILITY TO REVIEW MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. SOME EQUIPMENT MAY REQUIRE MULTIPLE CONNECTIONS.

4. IT IS THE RESPONSIBILITY OF FSEC TO INSTALL THE FIRE SUPPRESSION

5. PROVIDE J-BOX FOR THE FIRE SYSTEM PULL STATION. SCREW HOLES AT 1 & 7 O'CLOCK. CONDUIT SHALL BE WITHIN STRUCTURAL WALL AND EXTEND 6" ABOVE FINISHED CEILING. LOCATION MUST BE NEAR AN EXIT AND MEET LOCAL

6. ELECTRICIAN IS RESPONSIBLE TO INNER-WIRE ALL HOOD SECTIONS AS REQUIRED FOR A COMPLETE INSTALLATION.

7. SEE ARCHITECTURAL/ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

Restaurant Design Service, Inc.

ADAL CHILD DEVELOPMENT CENTER BLDG. & REPAIR CHILD DEVELOPMENT CENTER BLDG. 90353

AIR FORCE SPECIAL OPERATIONS COMMAND I SPECIAL OPERATIONS ENGINEER SQUADRON HURLBURT FIELD, FLORIDA

DATE:

16 SEPT 2016 DESIGNED BY:

L. HOWARD

DRAWN BY: L. HOWARD

BUILDING NO: 90353

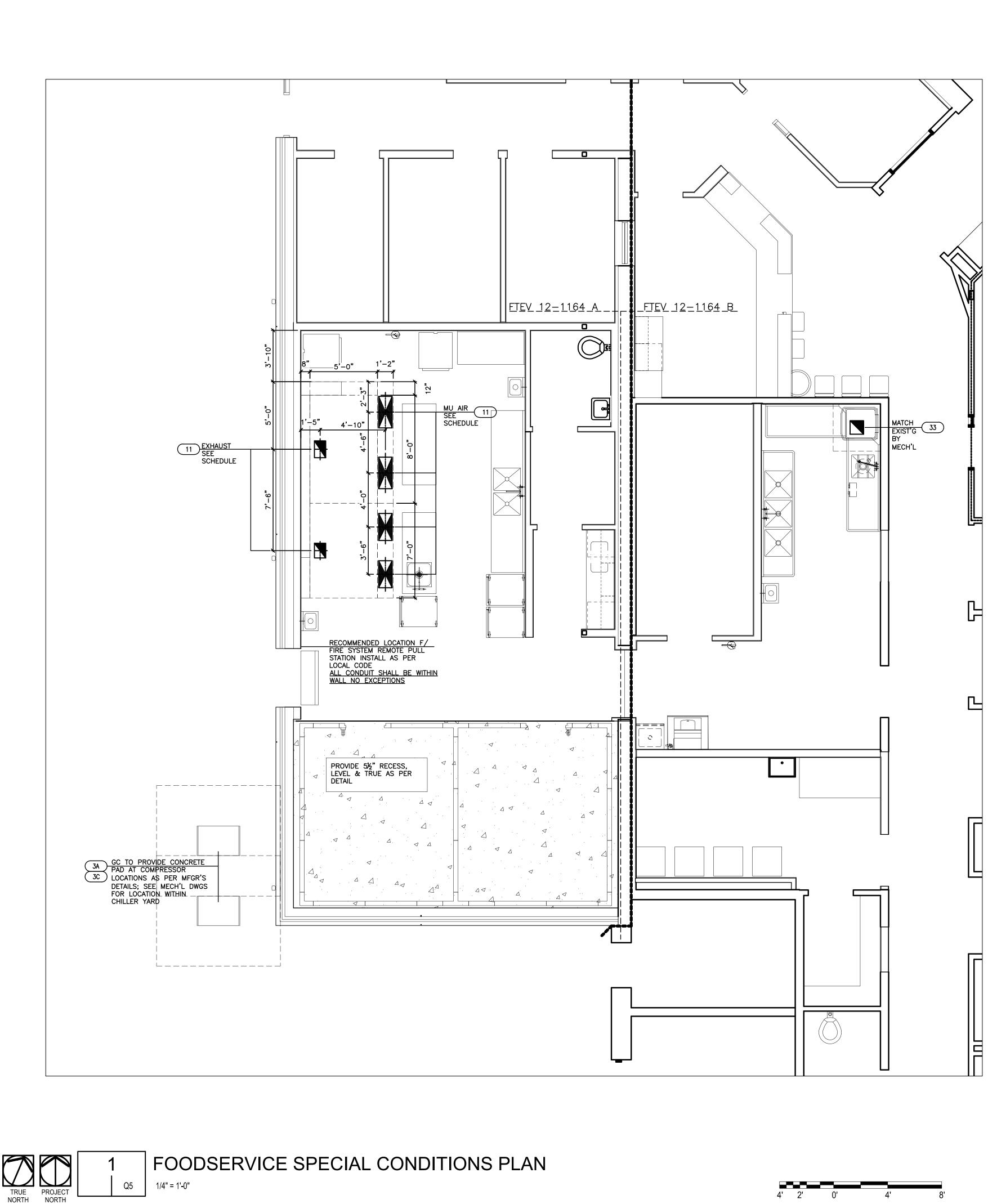
PROJECT NO: FTEV 12-1164

SHEET REF:

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E)

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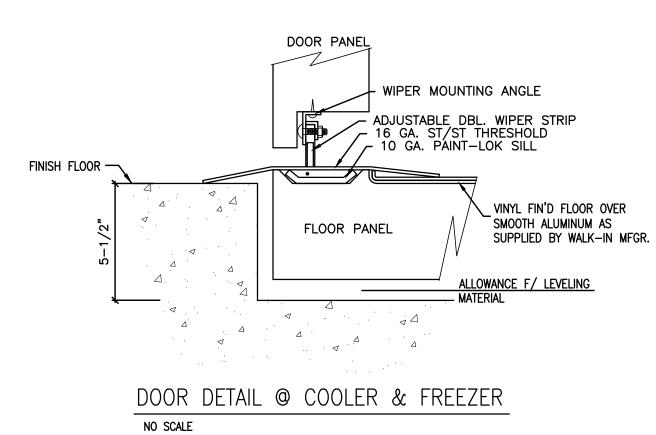


HOOD	INFOR	MATION																			
ноор				MAX.			EXHAUST	PLENUM RISER(S)			TOTAL	ноо			CONFIG.						
HOOD NO.	TAG	MODEL	LENGTH	COOKIN TEMP.	IG TOTA		TH LENG	. HEIGHT	CFM	S.P.	SUPPLY CFM	CONSTRU		END TO END	ROW						
1	Item 11	6030	8' 0.00 "	600	160	10)" 15"	4"	1600	-0.566"	1449	430	SS	LEFT	ALONE						
•		ND-2-PSP-F	8 0.00	Deg.	100	0					1449	Where Ex	posed		ALOINE						
2	ltem 11	6030	7'0.00"	600 Deg.	140	0 10)" 13"	4"	1400	-0.537"	1260	430	SS	RIGHT	ALONE						
		ND-2-PSP-F	, 0.00	Deg.		Ĭ						Where Ex	posed								
ноор	INFOR	MATION																			
				F	ILTER(S)	-					LIGHT(S)	-						CABINET(S)		FIRE	HOOD
HOOD NO.	TAG		DE		HEIGHT		EFFICIE	NCY @ 9	QTY	,	TYPE	WIRE	LOCATIC		SIZE		SYSTEM	ELECTRICAL	SWITCHES	SYSTEM	HANGING
NO.			- C	Q11.		LENGTH	MICI	RONS		•		GUARE	LUCAIL		JIZE	TYPE	SIZE	MODEL #	QUANTITY	PIPING	WGHT
1	ltem 11	Captrate S	iolo Filter	6	20"	16"	93% See	Filter Spe	c. 6	Screw	In Compac	t NO								YES	581 LBS
2	Item 11	Captrate S	Solo Filter	5	20"	16"	3% See	Filter Spe	c. 5	Screw	In Compac	t NO	Right	12"x	60 " x30"	Ansul R102	3.0/1.5	SC-311110FP-VFDE	1 Light 1 Fan	YES	681 LBS

PERF	ORATED S	SUPPLY	PLENU	JM(S)							
ноор									RISER(S)	
NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG.	DIA.	CFM	S.P.
1	Ham 11	Frank	100"	14"	c "	MUA	12"	28"		752	0.183"
	Item 11	Front	108"	14	6"	MUA	12"	28"		752	0.183"
2	Item 11	Front	84"	14"	6"	MUA	12"	24"		602	0.163"
2		Tront	04	14	0	MUA	12"	24"		602	0.163"

MECHANICAL LEGEND

CFM	CUBI
	SUPP
	EXHA



IC FEET PER MINUTE

PPLY DUCT CONNECTION HAUST DUCT CONNECTION

Restaurant Design Service, Inc.

ADAL CHILD DEVELOPMENT CENTER BLDG. & REPAIR CHILD DEVELOPMENT CENTER BLDG. 90353

AIR FORCE SPECIAL OPERATIONS COMMAND I SPECIAL OPERATIONS ENGINEER SQUADRON HURLBURT FIELD, FLORIDA

DATE

16 SEPT 2016 DESIGNED BY: L. HOWARD

DRAWN BY: L. HOWARD

BUILDING NO: 90353

PROJECT NO: FTEV 12-1164

SHEET REF:

Q5

(C)

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FIRE SPRINKLER CONTRACTOR CALCULATIONS REQUIREMENTS

1. THESE DRAWINGS REPRESENT THE DESIGN INTENT FOR THE FIRE SPRINKLER SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FIRE SPRINKLER SYSTEM FOR THIS PROJECT, APPROVED BY NFPA AND THE AUTHORITY HAVING JURISDICTION. PROVIDE FIRE SPRINKLER SHOP DRAWINGS SUBMITTED THROUGH THE ENGINEER.

2. CONTRACTOR SHALL PROVIDE TO THE ENGINEER AND AUTHORITY HAVING JURISDICTION (AHJ). THE FOLLOWING AS APPLICABLE, BUT NOT LIMITED TO;

2.1.SPRINKLER SYSTEM SHOP DRAWINGS, INCLUDING SPRINKLER SYSTEM LAYOUT, NODE IDENTIFICATION AND NODE SPOT ELEVATIONS,

2.2.WATER SUPPLY INFORMATION,

2.3.SPRINKLER SYSTEM DESIGN,

2.4. SPRINKLER HEAD DATA/CUT SHEETS WITH SPECIFIC SYSTEM COMPONENTS IDENTIFIED, AND 2.5. ADDITIONAL SPRINKLER SYSTEM SPECIFICATIONS AS REQUIRED IN COMPLIANCE WITH NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS CHAPTER 8, PLANS AND CALCULATIONS, PRIOR TO AUTOMATIC SPRINKLER SYSTEMS INSTALLATION.

3. THE SYSTEM SHALL BE HYDRAULICALLY DESIGNED WITH A HOSE STREAM ALLOWANCE OF 250 GPM FOR HAZARD CLASSIFICATION AND DENSITY VALUES AS FOLLOWS

 HAZARD CLASSIFICATION #1 = 0.10 GPM/SF OVER THE MOST DEMANDING 1500 SQ. FT. WITH 225 SQ. FT. MAX SPACING BETWEEN SPRINKLERS.

4. THE DESIGN OF THE SPRINKLER SYSTEM SHALL BE BASED UPON WATER SUPPLY INFORMATION OBTAINED BY THE SPRINKLER CONTRACTOR AND WITNESSED BY THE AUTHORITY HAVING JURISDICTION (AHJ). WATER SUPPLY SHALL BE PRESUMED AVAILABLE AT THE POINT OF CONNECTION OF THE FIRE MAIN TO CITY WATER SUPPLY.

APPLICABLE CODES

UFC 3-600-01 FIRE PROTECTION ENGINEERING FOR FACILITES NFPA 1

- UNIFORM FIRE CODE NFPA 13 INSTALLATION OF SPRINKLER SYSTEMS
- INSTALLATION OF STANDPIPE AND HOSE SYSTEMS NFPA 14
- NFPA 25 STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS NFPA 70 NATIONAL ELECTRICAL CODE
- NFPA 72 NATIONAL FIRE ALARM CODE
- NFPA 101 LIFE SAFETY CODE

SCREW THREADS AND CASKETS FOR FIRE HOSE CONNECTIONS NFPA 1963

IBC 2012 INTERNATIONAL BUILDING CODE 2012 INTERNATIONAL FIRE PREVENTION CODE 2012 IBC 2012

BASELINE HYDRAULIC CRITERIA

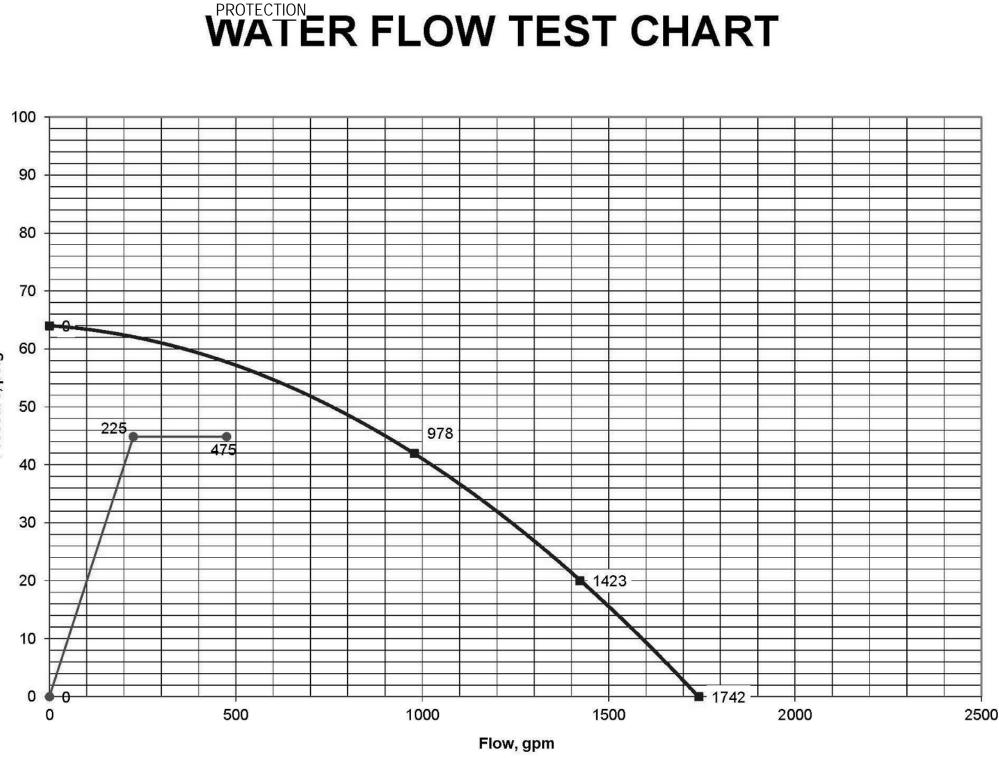
PRELIMINARY FLOW DATA OBTAINED BY: SCHMIDT CONSULTING GROUP, INC DATE: NOV. 16 2015 STATIC: 64 PSI RESIDUAL: 42 PSI FLOW RATE: 978 GPM SEE MAP FOR TEST HYDRANT LOCATION.

BASELINE HYDRAULIC CRITERIA

NFPA/UFC 03-600-01 CRITERIA	<u>HC-1</u>	
REMOTE AREA	1,500	FT2
DESIGN DENSITY	0.15	GPM/FT2
	225	GPM

ADDITIONAL 30% FOR SLOPED CEILINGS (PITCH>1 in 6) OR DRY PIPE SYSTEM IF APPLICABLE

CEILING MULTIPLIER	100.0%	(130% for sloped ceilings)
DRY PIPE MULTIPLIER	100.0%	(130% for dry pipe/preaction)
ADJUSTED FLOW REQUIREMENT	225	GPM
HOSE STREAM ALLOWANCE	250	GPM
TOTAL WATER DEMAND	475	GPM
STANDPIPE DEMAND	0	GPM
WATER PRESSURE CALCULATIONS		
SPRINKLER HEAD COVERAGE	130.0	FT2
END-HEAD PRESSURE	7.0	PSI
PIPING ELEVATION RISE	15.0	FT2
ELEVATION LOSS	6.5	PSI
INSIDE FRICTION LOSS	15.0	PSI
BFP LOSS	10.0	PSI
OUTSIDE FRICTION LOSS	2.3	PSI
TOTAL LOSS	40.8	PSI
+10% SAFETY	4.1	PSI
	44.8	PSI



AREAS SHALL INCLUDE MECHANICAL ROOMS, ELECTRICAL ROOMS, UNDER STAIRWELL LANDING, AND IN ELEVATOR SHAFTS. 26. THE CONTRACTOR SHALL SUBMIT PLANS FOR REVIEW PER UFC 3-600-01, NFPA 1, 1.14.2, IBC 2012 EDITION.

27. ABBREVIATIONS: AHJ - AUTHORITY HAVING JURISDICTION, (E) - EXISTING, (N) - NEW, FP - FIRE

- AND DUCTWORK ARE IN PLACE. CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLERS, IF NECESSARY, TO PROVIDE ADEQUATE COVERAGE IN ACCORDANCE WITH NFPA 13. 25. PROVIDE A LISTED GUARD FOR SPRINKLERS IN LOCATIONS SUBJECT TO MECHANICAL INJURY. THESE
- LOCATIONS TO ALLOW FIELD ADJUSTMENT. PREFABRICATION OF PIPING TO LOCATE SPRINKLER IN CENTER OR TILE IS PROHIBITED 24. IN MECHANICAL ROOMS FINAL LOCATION OF SPRINKLERS SHALL BE DETERMINED AFTER EQUIPMENT
- 22. LIGHT FIXTURES AND HVAC DIFFUSERS TAKE PRECEDENCE. ADD ADDITIONAL SPRINKLERS AS REQUIRED TO MEET "COVERAGE REQUIREMENTS". 23. PLACE SPRINKLERS IN CENTER OF CEILING TILES. PROVIDE RETURN BENDS AT ALL SPRINKLER
- SYSTEM. 21. COORDINATE EXACT LOCATION OF ALL SPRINKLERS WITH THE CEILING AND LIGHTING LAYOUT
- WORK. 20. PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA FOR SUPPORTING FIRE PROTECTION PIPING. NO OTHER PIPING AND/OR DEVICES ARE TO BE ATTACHED TO THE SPRINKLER PIPE HANGER
- INTERNATIONAL BUILDING CODE.
- 18. THE CONSTRUCTION OF THE SYSTEM SHALL CONFORM TO: UFC 3-600-01, NFPA 14, 20 AND 72 19. CONTRACTOR SHALL PAINT ALL SPRINKLER PIPING, COORDINATE COLOR WITH OWNER PRIOR TO
- GROOVED FITTINGS.
- NFPA. PIPE SHALL BE SCHEDULE 40. SCHEDULE 40 PIPE SHALL BE ROLL GROOVED WITH ROLLED

- UNLESS THE HANGER HAS BEEN SPECIFICALLY DESIGNED FOR THE ADDITIONAL LOADING 17. ALL PIPE TO BE BLACK STEEL, WITH BLACK CAST/MALEABLE IRON FITTINGS WITH JOINTS AS PER
- LOCATION OF SPRINKLER HEADS INSTALLED IN GYPSUM BOARD CEILINGS SHALL BE GUIDED BY ARCHITECTURAL ELEMENTS. NO OTHER PIPING AND/OR DEVICES ARE TO BE ATTACHED TO THE SPRINKLER PIPE HANGER SYSTEM
- 16. PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA FOR SUPPORTING SPRINKLER PIPING.
- 15. ALL SPRINKLER HEADS INSTALLED IN LAY-IN CEILINGS SHALL BE INSTALLED CENTER OF TILE. THE
- 14. MICROBIAL INDUCED CORROSION IS NOT ANTICIPATED ON THIS PROJECT.
- BE PROVIDED AT THE END OF ALL CROSS MAINS.
- 13. THE SPRINKLER SYSTEM SHALL BE ARRANGED FOR FLUSHING. READILY REMOVABLE FITTINGS SHALL
- PROVIDE RECESSED TYPE SPRINKLER HEADS IN ALL NEW CEILINGS. 12. ALL PIPING SHALL OBSERVE PROPER PITCH. LOW POINTS SHALL HAVE DRAINS AS REQUIRED.
- ACCORDANCE WITH UFC 3-600-01 AND THE AUTHORITY HAVING JURISDICTION 11. SPRINKLER HEADS SHALL BE OF THE ORDINARY TEMPERATURE RATINGS FOR ALL LIGHT HAZARD AREAS AND OF THE INTERMEDIATE TEMPERATURE RATINGS FOR ALL ORDINARY HAZARD AREAS.
- TRADES.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SYSTEM DESIGN WITH ALL APPLICABLE 10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING INSPECTOR'S TEST LOCATION IN

- 8. MAINTAIN THE INTEGRITY OF ALL FIRE RATED ASSEMBLIES AND ACOUSTICAL ASSEMBLIES.
- UFC 3-600-01, ETL 01-18, NFPA 13, AND LOCAL CODES.
- 5. THE CONTRACTOR SHALL SUBMIT FIRE SPRINKLER PLANS FOR REVIEW PER UFC 3-600-01. 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN CURRENT WATER FLOW DATA AND 7. THE BUILDING SHALL BE FULLY SPRINKLER IN ACCORDANCE WITH THE MOST RECENT EDITION OF
 - **TERMINATE SLEEVE FLUSH** WITH FINISHED WALL SURFACES
 - SEAL OR CAULK SLEEVES THRU FIRE WALLS IN A

PIPE AND INSULATION CENTERED IN SLEEVE- DO NOT SUPPORT PIPE FROM



2



1. INSTALL ALL WORK IN ACCORDANCE WITH LATEST APPROVED EDITION NFPA FIRE CODES, UFC 3-600-

2. COORDINATE EXACT LOCATION OF ALL SPRINKLERS WITH THE CEILING AND LIGHTING LAYOUT

3. LIGHT FIXTURES AND HVAC DIFFUSERS TAKE PRECEDENCE. ADD ADDITIONAL SPRINKLERS AS

4. PLACE SPRINKLERS IN CENTER OF CEILING TILES. PROVIDE RETURN BENDS AT ALL SPRINKLER

SHALL GOVERN

REQUIRED TO MEET "COVERAGE REQUIREMENTS".

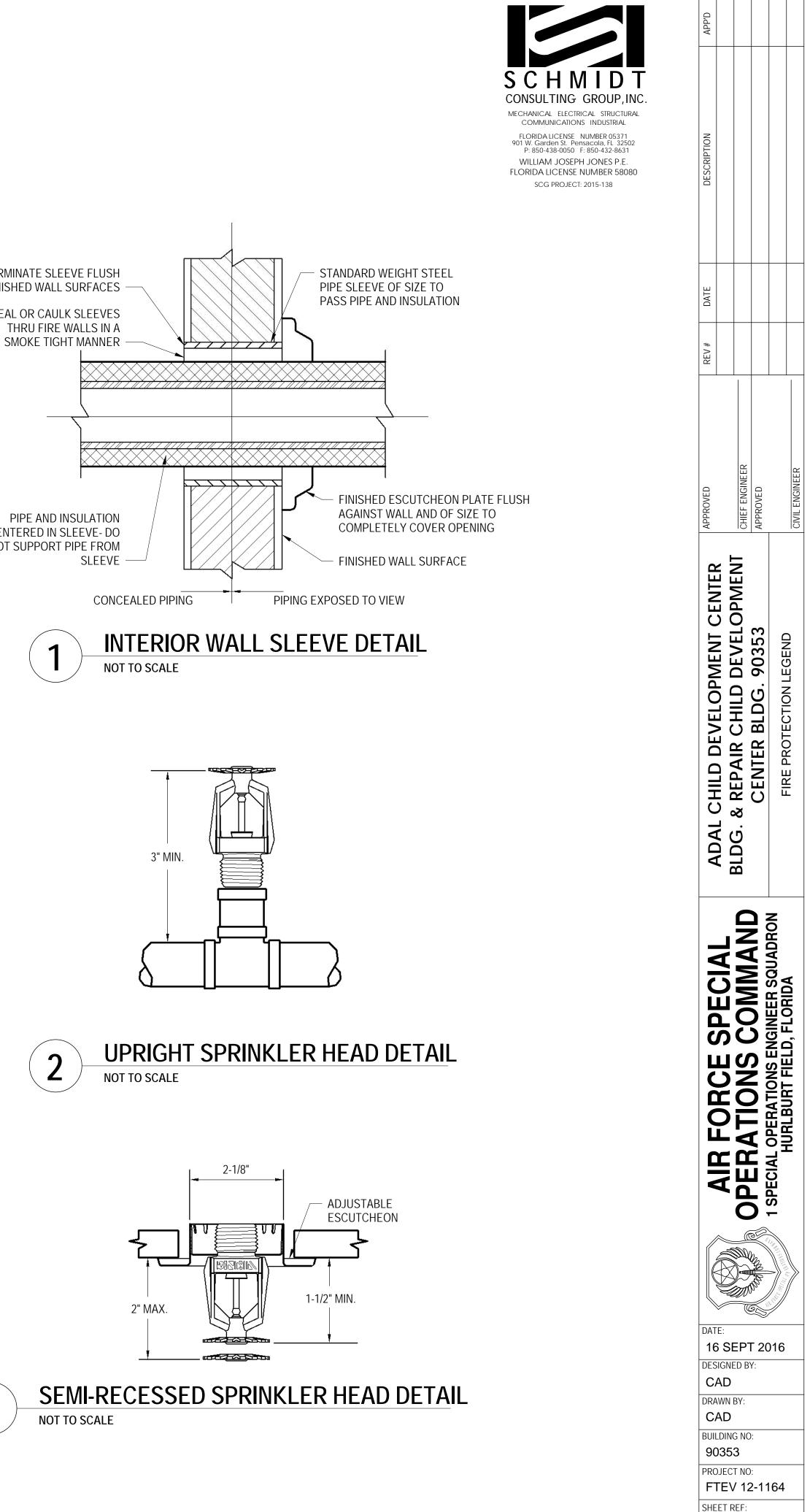
DESIGN SPRINKLER SYSTEMS ACCORDINGLY.

CENTER OR TILE IS PROHIBITED.

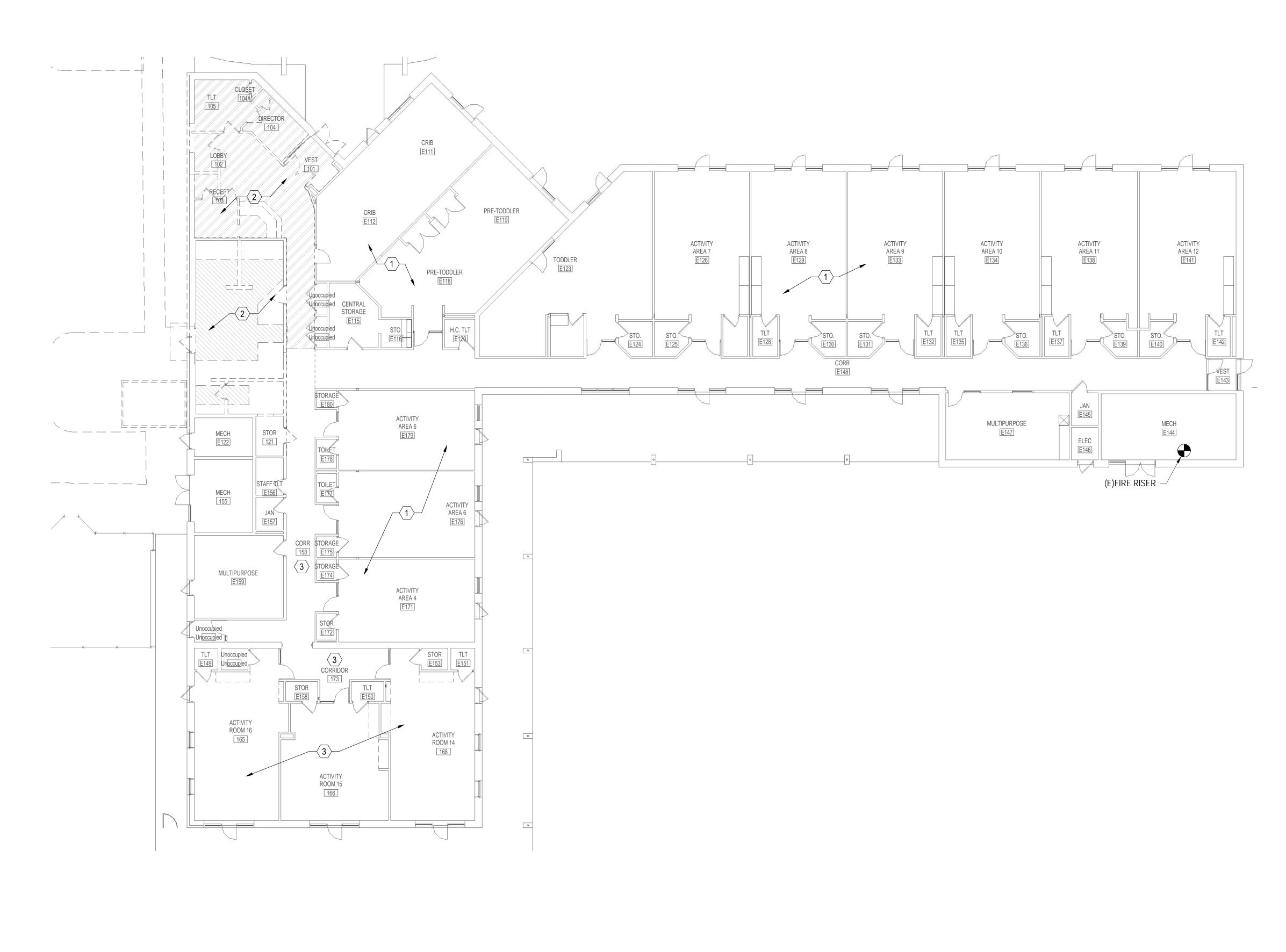
01, ETL 01-18, AND APPLICABLE OSHA AND EPA REGULATIONS AND GUIDELINES. WHERE CONFLICTS

BETWEEN CODE AND CONSTRUCTION DOCUMENTS OCCUR, THE MOST RESTRICTIVE REQUIREMENTS

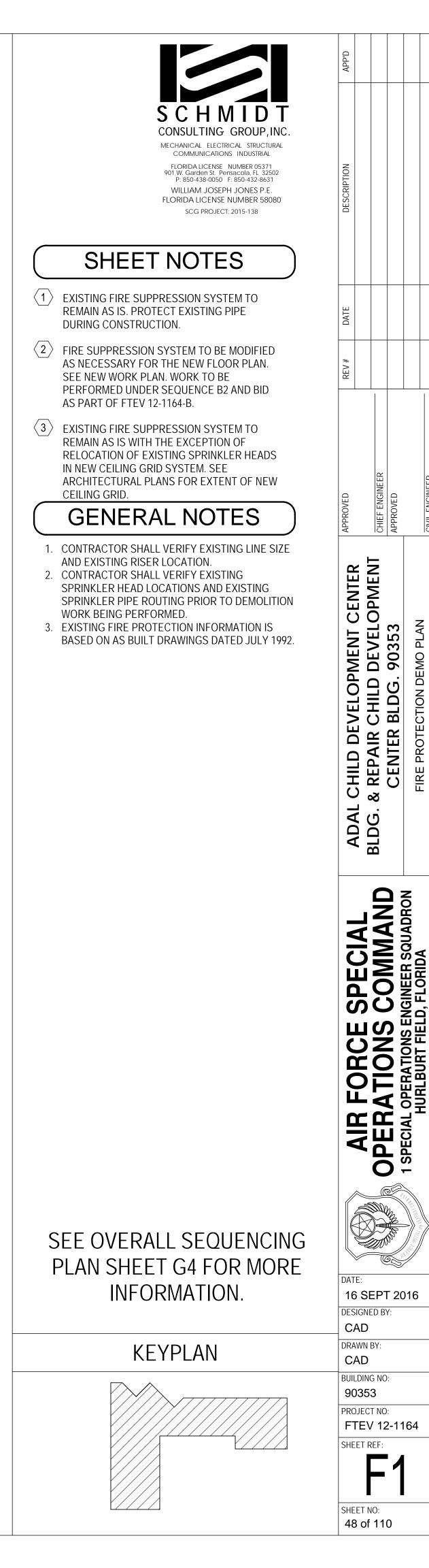
LOCATIONS TO ALLOW FIELD ADJUSTMENT. PREFABRICATION OF PIPING TO LOCATE SPRINKLER IN



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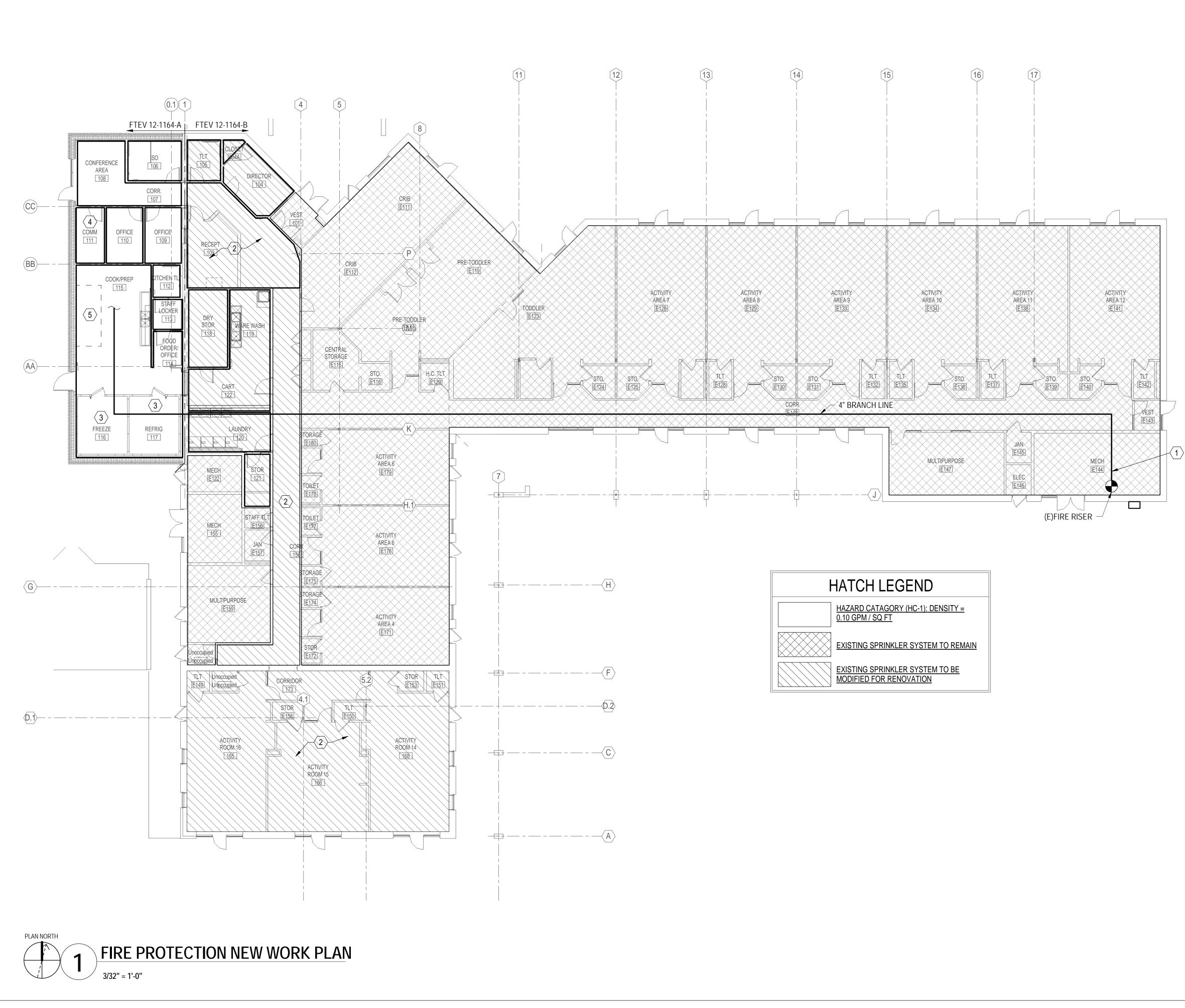


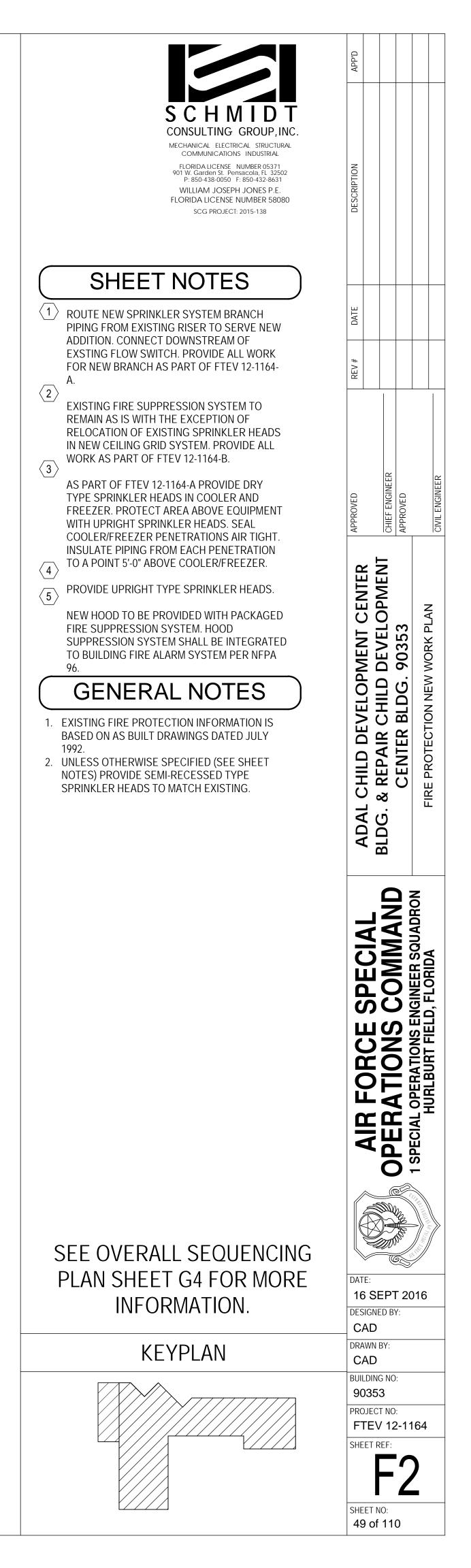


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LEGEND

	SANITARY PIPING	0	ELBOW TURN UP
	VENT PIPING	⊃	ELBOW TURN DOWN
	COLD WATER SUPPLY PIPING	÷	CONNECTION, BOTTOM
	HOT WATER SUPPLY PIPING		CONNECTION, TOP
	HOT WATER RETURN PIPING		PIPE SIZE TRANSITION
		-	GATE VALVE
G	GAS PIPING	<u> </u>	BALL VALVE
GW	GREASE WASTE PIPING	—[BUTTERFLY VALVE
——— — —	HOSE BIBB (HB) OR WALL HYDRANT (WH)	,	SWING CHECK VALVE
	FLOOR CLEANOUT	T¥↓	SPRING CHECK VALVE
FD	FLOOR DRAIN		PRESSURE REDUCING VALVE
	CLEANOUT TO GRADE	¢h	PRESSURE RELIEF VALVE. PIPE FULL SIZE DISCHARGE TO FLOOR DRAIN.
	UNION		UNION
	VENT THRU ROOF		GLOBE VALVE
~ A		——次—	THERMAL EXPANSION VALVE
Ų	WATER HAMMER ARRESTOR	₽	ANGLE VALVE
$\langle 1 \rangle$	SHEET NOTE	——Ķ—	SOLENOID VALVE
			FLEXIBLE PIPE CONNECTOR
	POINT OF CONNECTION		STRAINER WITH BLOW DOWN GATE VALVE FULL SIZE OF STRAINER AND 3/4" HOSE END
	FLOOR SLAB REMOVAL		CONNECTION WITH CAP
EF		(E)	EXISTING
	EQUIPMENT TAG	(N)	NEW
1 DETAIL NOT TO SCALE	DRAWING DESCRIPTION		

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
BFP	BACKFLOW PREVENTER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFU	COLD WATER FIXTURE UNITS
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CP	HOT WATER RECIRCULATION PUMP
CW	COLD WATER
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DN	DOWN
EL OR ELEV	ELEVATION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FT	FOOT OR FEET
FV	FLUSH VALVE
GALV	GALVANIZED
GI	GREASE INTERCEPTOR
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB HD HFU HW	HOSE BIBB HUB DRAIN HOT WATER FIXTURE UNITS HOT WATER HOT WATER RETURN
HWR	INVERT
MECH	MECHANICAL
MV	MIXING VALVE
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
S	SANITARY
SK	SINK
SS	STAINLESS STEEL
TLT	TOILET
TYP	TYPICAL
U	URINAL
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WC	WATER CLOSET (TOILET)
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR

GENERAL NOTES

1. PLUMBING CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, SIZES, AND CONNECTION LOCATIONS BEFORE ANY PIPE CUTTING IS COMMENCED. 2. THE PIPING SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL ARRANGE WORK IN A NEAT AND

- ORDERLY MANNER. THE PLUMBING CONTRACTOR SHALL MAKE ANY OFFSETS, TRANSITIONS, AND OTHER MINOR DUCTWORK SHOP DRAWINGS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
- VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING.
- OPEN ENDED.
- 5. DRAWINGS SHOW GENERAL SIZE AND APPROXIMATE LOCATIONS. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL CORRECTLY AT THE EXPENSE OF THE CONTRACTOR.
- INDICATE ALL OFFSETS, BENDS, FITTINGS, ETC.
- OPERATION OF OWNER FURNISHED EQUIPMENT.
- CLEARANCES.
- QUARTER TURN BALL TYPE.
- DOORS WITH ARCHITECTURAL
- STRUCTURAL ENGINEER. OTHER PLUMBING ITEMS.
- AT JOBSITE FOR ALL PENETRATIONS. 15. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE
- COMPLETION.
- 17. PROVIDE ESCUTCHEON PLATES FOR ALL WALL PIPING PENETRATIONS. OPERATION OF OWNER FURNISHED EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 19. COMPLY WITH SPECIFICATIONS FOR PIPE SLEEVES, HANGER SELECTIONS, AND APPLICATIONS.
- PAINTED TO MATCH ROOF COLOR. PROVIDE APPROVED SEALS AT ALL ROOF PENETRATIONS.
- 22. PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS.
- 23. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
- 24. UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
- 25. SEE TOILET ROOM ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHT. 26. COORDINATE EXACT LOCATION OF ALL EXTERIOR WALL HYDRANTS WITH ARCHITECT DRAWINGS.
- 27. COORDINATE FLOOR DRAIN LOCATIONS IN TOILET ROOMS WITH ARCHITECTURAL PLANS. 28. ALL COMPONENTS OF PLUMBING SYSTEMS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
- 29. WATER LINES FOR ICE MAKERS AND REFRIGERATORS SHALL BE BRAIDED STAINLESS STEEL. 30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ANY EXISTING MATERIALS OR SYSTEMS
- ABOVE EXISTING CEILINGS WHICH MAY INTERFERE WITH THE INSTALLATION OF NEW SYSTEMS OR UTILITIES.
- BETWEEN PLUMBING WORK, STRUCTURAL, FIRE SPRINKLER, HVAC DUCTWORK, AND ELECTRICAL SYSTEMS.
- 32. PROVIDE TRAP PRIMERS TO ALL FLOOR DRAINS. CONTRACTOR SHALL CONNECT TO NEAREST POTABLE WATER SUPPLY WITHIN VICINITY. 33. ALL WORK SHALL COMPLY WITH THE FOLLOWING AGENCIES:
- 34. 2012 INTERNATIONAL BUILDING CODE
- 35. 2012 INTERNATIONAL PLUMBING CODE
- 36. NATIONAL FIRE PROTECTION AGENCY (NFPA)
- 37. AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS (ASHRAE) 38. ALL APPLICABLE LOCAL CODES, ORDINANCES, AND THE AUTHORITY HAVING JURISDICTION

ADJUSTMENTS AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM INSTALLATION. COORDINATE ALL PIPING WITH

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

4. CONTRACTOR SHALL PROVIDE ALL TEMPORARY OR PERMANENT CAPS FOR PIPING. CONTRACTOR SHALL NOT LEAVE PIPING

ARRANGEMENT OF THE UTILITY SYSTEM. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CONNECTIONS SIZE, LOCATION, DEPTH. THE CONTRACTOR SHALL INSTALL ALL SYSTEMS ACCORDING TO THE ACTUAL FIELD CONDITIONS FOUND. ANY PLUMBING SYSTEM COMPONENT INSTALLED INCORRECTLY DUE TO FIELD CONDITIONS SHALL BE REMOVED AND INSTALLED

6. REFER TO RISERS FOR SIZES NOT INDICATED ON PLAN VIEWS. RISERS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO

7. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS, FITTINGS, APPURTENANCES, ETC. AS NECESSARY FOR INSTALLATION AND

8. INSTALL ALL EQUIPMENT AND PIPING PER MANUFACTURERS REQUIREMENTS AND TO MANUFACTURERS RECOMMENDED

9. ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. ISOLATION VALVES SHALL BE OF THE

10. PROVIDE ACCESS DOORS/PANELS IN NON ACCESSIBLE WALLS AND CEILINGS FOR ALL VALVES, SHOCK ABSORBERS, AND ALL OTHER ITEMS THAT REQUIRE ACCESS FOR PROPER MAINTENANCE. COORDINATE COLOR AND INSTALLATION OF ACCESS

11. BALL VALVES SHALL BE PROVIDED ON ALL WATER BRANCH LINES TO ALL EQUIPMENT, HOSE BIBBS, AND RISER TAKE-OFFS. 12. THE CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS OF BUILDING WITHOUT PRIOR CONSENT OF ARCHITECT AND

13. PLUMBING CONTRACTOR TO COORDINATE WITH OTHER TRADES AS REQUIRED FOR INSTALLATION OF EQUIPMENT AND ANY

14. ALL PENETRATIONS OF FIREWALLS, CEILINGS, FLOORS, ETC. FOR PIPING SHALL BE UL LISTED FIRESTOPS AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. CONTRACTOR TO SHALL OBTAIN MANUFACTURER SHOP DRAWINGS

COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS 16. CONTRACTOR SHALL PROVIDE GENERAL WARRANTY FOR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL

18. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS, FITTINGS, APPURTENANCES, ETC. AS NECESSARY FOR INSTALLATION AND

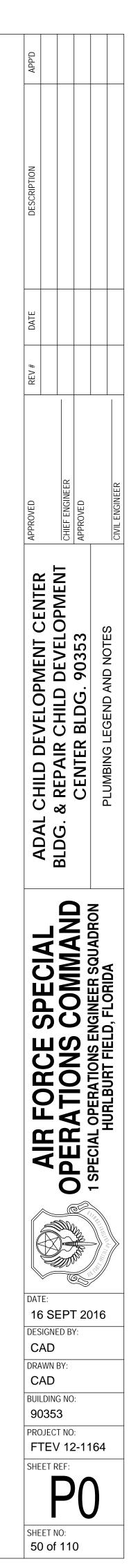
20. ALL ITEMS PROJECTING THROUGH ROOF SHALL BE FLASHED AND COUNTER-FLASHED A MINIMUM OF 12" AND SHALL BE

21. PROVIDE PREFABRICATED WATER HAMMER ARRESTOR AT EACH NEW BATHROOM GROUP ON HOT AND COLD WATER PIPING.

31. CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION DRAWINGS WHICH IDENTIFY AND RESOLVE POTENTIAL CONFLICTS



COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 3250 P: 850-438-0050 F: 850-432-8631 WILLIAM JOSEPH JONES P.E. FLORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138



ABOVE GROUND GAS PIPING NOTES

FABRICATE AND INSTALL GAS SYSTEMS IN ACCORDANCE WITH NFPA 54 "NATIONAL FUEL GAS COD AND WITH LOCAL GAS UTILITY COMPANY REQUIREMENTS AND STANDARDS.

SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR GA SYSTEMS PRODUCTS.

SUBMIT MAINTENANCE DATA AND PARTS LISTS FOR GAS SYSTEMS MATERIALS AND PRODUCTS. INCLUDE THIS DATA, PRODUCT DATA, SHOP DRAWINGS, AND RECORD DRAWINGS IN MAINTENANC MANUAL.

PROVIDE PIPING MATERIALS AND FACTORY-FABRICATED PIPING PRODUCTS OF SIZES, TYPES, PRESSURE RATINGS, AND CAPACITIES AS INDICATED. WHERE NOT INDICATED, PROVIDE PROPER SELECTION AS DETERMINED BY INSTALLER TO COMPLY WITH INSTALLATION REQUIREMENTS. PRO MATERIALS AND PRODUCTS COMPLYING WITH NFPA 54 WHERE APPLICABLE; BASE PRESSURE RA ON GAS PIPING SYSTEM MAXIMUM DESIGN PRESSURES. PROVIDE SIZES AND TYPES MATCHING PI AND EQUIPMENT CONNECTIONS; PROVIDE FITTINGS OF MATERIALS WHICH MATCH PIPE MATERIAL USED IN NATURAL GAS SYSTEMS. WHERE MORE THAN ONE TYPE OF MATERIALS OR PRODUCTS A INDICATED, SELECTION IS INSTALLER'S OPTION. PROVIDE IDENTIFICATION AND PAINT GAS PIPING YELLOW. PROVIDE ROOF MOUNTED SUPPORT.

ALL GAS PIPING UNDER THIS CONTRACT SHALL BE BLACK STEEL PIPE; SCHEDULE 40; MALLEABLE THREADED FITTINGS.

PROVIDE AND INSTALL PIPING SPECIALTIES IN ACCORDANCE WITH THE PIPE ESCUTCHEONS, DIELECTRIC UNIONS, PIPE SLEEVES, AND SLEEVE SEALS. PROVIDE AND INSTALL SUPPORTS AND ANCHORS.

PROVIDE AGA APPROVED SPECIAL VALVES REQUIRED FOR GAS SYSTEMS INCLUD-ING THE FOLLOWING TYPES:

1. GAS COCKS 2" AND SMALLER: 150 PSI NON-SHOCK WOG, BRONZE STRAIGHTWAY COCK, FLAT O SQUARE HEAD, THREADED ENDS.

2. WRENCHES: PROVIDE OPERATING WRENCHES FOR ALL GAS COCKS SERVING BOILERS AND FO USE AS MASTER SHUTOFF AT LABS.

3. BALL VALVES: AGA APPROVED, UL-LISTED BALL VALVES MAY BE USED FOR LAB MASTER SHUTC VALVES AT CONTRACTOR'S OPTION.

4. ACCEPTABLE PRODUCERS FOR GAS COCKS: DEZURIK, JENKINS BROS., LUNKEN-HEIMER, NIBCC POWELL, STOCKHAM, WALWORTH, ROCKWELL.

5. MASTER GAS CONTROL VALVE: BRONZE OR ALUMINUM BODY, PACKLESS, SINGLE SEAT, SUITAE FOR FUEL GAS, SOLENOID OPERATED, NORMALLY OPEN, UL-APPROVED, MANUAL RESET, 24 VOLT THE VALVE TO CLOSE WHEN DE-ENERGIZED BY THE FACP. ACCEPTABLE PRODUCER: AUTOMATIC SWITCH CO., BULLETIN 8044, OR APPROVED EQUAL.

GAS REGULATORS

1. FIRST STAGE REGULATORS: PROVIDE UL LISTED FIRST STAGE (HIGH PRESSURE) REGULATORS FOR 15 PSI.

2. SECOND STAGE REGULATORS: PROVIDE UL LISTED SECOND STAGE (1-5 PSI) ADJUSTABLE REGULATORS WITH INTEGRAL RELIEF VALVES.

3. ACCEPTABLE PRODUCERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE REGULATORS BY REGO, OR APPROVED EQUAL.

4. GAS METER AND REGULATOR: PROVIDED BY LOCAL UTILITY COMPANY

EXAMINE AREAS AND CONDITIONS UNDER WHICH GAS SYSTEMS, MATERIALS, AND PRODUCTS TO BE INSTALLED. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEE CORRECTED IN MANNER ACCEPTABLE TO INSTALLER. COORDINATE WITH GAS SUPPLIER PRIOR TO STARTING WORK.

INSTALL GAS PIPING IN ACCORDANCE WITH DIVISION-23 BASIC MECHANICAL MATERIALS AND METHODS.

1. USE SEALANTS ON METAL GAS PIPING THREADS WHICH ARE CHEMICALLY RESISTANT TO GAS. SEALANTS SPARINGLY, AND APPLY TO ONLY MALE THREADS OF METAL JOINTS.

2. REMOVE CUTTING AND THREADING BURRS BEFORE ASSEMBLING PIPING. 3. DO NOT INSTALL DEFECTIVE PIPING OR FITTINGS. DO NOT USE PIPE WITH THREADS WHICH ARE

CHIPPED, STRIPPED OR DAMAGED. DO NOT USE BUSHINGS IN THE GAS SYSTEM. 4. PLUG EACH GAS OUTLET, INCLUDING VALVES, WITH THREADED PLUG OR CAP IMMEDIATELY AFT INSTALLATION AND RETAIN UNTIL CONTINUING PIPING, OR EQUIPMENT CONNECTIONS ARE

COMPLETED. 5. GROUND GAS PIPING ELECTRICALLY AND CONTINUOUSLY WITHIN PROJECT, AND BOND TIGHTLY **GROUNDING CONNECTION.**

6. INSTALL DRIPLEGS IN GAS PIPING WHERE INDICATED, AND WHERE REQUIRED BY CODE OR

REGULATION. 7. INSTALL "TEE" FITTING WITH BOTTOM OUTLET PLUGGED OR CAPPED, AT BOTTOM OF PIPE RISER 8. USE DIELECTRIC UNIONS WHERE DISSIMILAR METALS ARE JOINED TOGETHER.

9. INSTALL PIPING WITH 1/64" PER FOOT (1/8%) DOWNWARD SLOPE IN DIRECTION OF FLOW.

10. INSTALL PIPING PARALLEL TO OTHER PIPING, BUT MAINTAIN MINIMUM OF 12" CLEARANCE BETW GAS PIPING AND STEAM OR HYDRONIC PIPING ABOVE 200°F. 11. FOR PIPING UNDERGROUND BENEATH BUILDINGS, INSTALL IN WELDED CONDUIT. EXTEND COND

INSIDE AND TERMINATE IN ACCESSIBLE PORTION OF BUILDING AND SEAL. EXTEND CONDUIT OUTSI MINIMUM OF 4" FROM BUILDING, AND VENT ABOVE GRADE.

VALVES INSTALLATION:

• GAS COCKS: PROVIDE AT CONNECTION TO GAS TRAIN FOR EACH GAS-FIRED EQUIPMENT ITEM; A ON RISERS AND BRANCHES WHERE INDICATED.

 LOCATE GAS COCKS WHERE EASILY ACCESSIBLE, AND WHERE THEY WILL BE PROTECTED FROM POSSIBLE INJURY.

· CONTROL VALVES: INSTALL AS INDICATED. REFER TO ELECTRICAL FOR WIRING; NOT WORK OF THIS SECTION.

 CONNECT GAS PIPING TO EACH GAS-FIRED EQUIPMENT ITEM, WITH DRIP LEG AND SHUTOFF GAS COCK. COMPLY WITH EQUIPMENT MANUFACTURER'S INSTRUCTIONS.

GAS VENT INSTALLATION:

 INSTALL GAS VENTS FOR ALL DRAFT GAS-FIRED APPLIANCES IN ACCORDANCE WITH NFPA 54 AM THE MANUFACTURER'S INSTRUCTIONS.

 GAS VENTS SHALL TERMINATE AT LEAST 3 FEET ABOVE THE ROOF AND 2 FEET HIGHER THAN A PORTION OF A BUILDING WITHIN A HORIZONTAL DISTANCE OF 10 FEET. MINIMUM VERTICAL GAS VENT LENGTH IS 5 FEET.

SLOPE HORIZONTAL GAS VENT CONNECTORS UPWARD AT LEAST 1/4 INCH PER FOOT.

· INSPECT, TEST, AND PURGE GAS SYSTEMS IN ACCORDANCE WITH NFPA 54, LOCAL UTILITY REQUIREMENTS, AND AS PER SPECIFICATION SECTION "TESTING, CLEANING AND STERILIZATION O PIPING SYSTEMS".

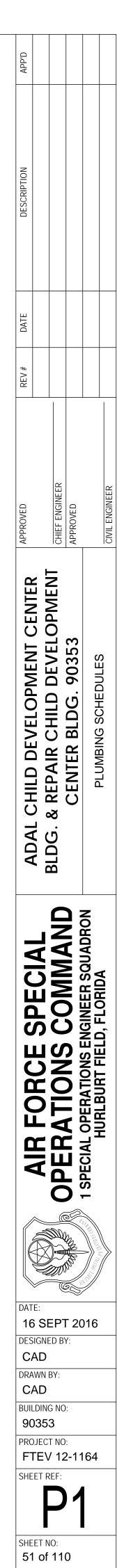
			BELOW GROUND GAS PIPING NOTES				
FABRI	CATE AND INSTALL GAS SYST	EMS IN ACCORDANCE WITH	I NFPA 54 "NATIONAL FUEL GAS CODE" AND WITH LOCAL GAS UTILITY COMPANY REQUIREMENTS AND STANDARDS.				S
SUBM	IT MANUFACTURER'S TECHNI	CAL PRODUCT DATA AND IN	STALLATION INSTRUCTIONS FOR GAS SYSTEMS PRODUCTS.				N
			EMS MATERIALS AND PRODUCTS. INCLUDE THIS DATA, PRODUCT DATA, SHOP DRAWINGS, AND RECORD DRAWINGS IN				F
BY INS PRESS	STALLER TO COMPLY WITH INS SURES. PROVIDE SIZES AND T	STALLATION REQUIREMENT TYPES MATCHING PIPING AN	G PRODUCTS OF SIZES, TYPES, PRESSURE RATINGS, AND CAPACITIES AS INDICATED. WHERE NOT INDICATED, PROVI S. PROVIDE MATERIALS AND PRODUCTS COMPLYING WITH NFPA 54 WHERE APPLICABLE; BASE PRESSURE RATING ON ID EQUIPMENT CONNECTIONS; PROVIDE FITTINGS OF MATERIALS WHICH MATCH PIPE MATERIALS USED IN NATURAL G ON IS INSTALLER'S OPTION. PROVIDE IDENTIFICATION AND PAINT GAS PIPING YELLOW. PROVIDE ROOF MOUNTED SUPF	N GAS PIPIN GAS SYSTEI	IG SYSTEN	Λ ΜΑΧΙΜΙ	JM DESIGN
MANU ACCO METAI	FACTURER TO ENSURE UNIFO RDANCE WITH THE GAS CODE LLIC PORTION OF RISER SHAL	DRM MELTING AND A PROPE E. PROVIDE METALLIC RISEF L BE AT LEAST TWENTY FO	11, ASTM D2513 PIPE AND FITTINGS WITH HEAT FUSION SOCKET JOINTS. POLYETHYLENE PIPE AND FITTING MATERIAL ER BOND. FABRICATED FITTINGS SHALL NOT BE USED. PROVIDE CONNECTION BETWEEN BURIED PLASTIC GAS SERVIC CONSISTING OF HDPE FUSED COATING ON STEEL PIPE FOR CONNECTION TO ABOVE GROUND BUILDING DISTRIBUTIC UR INCHES IN LENGTH BEFORE CONNECTING TO THE PLASTIC SERVICE PIPE. AN APPROVED TRANSITION FITTING OR J ONS SHALL BE USED WHERE THE PLASTIC JOINS THE METALLIC RISER.	e piping a Dn piping.	ND METAL UNDERGR	LIC RISE	R IN ORIZONTAL
SOIL A EVER	ND IMPREGNATED WITH MET (16 TO 36 INCHES WARNING (AL SO THAT IT CAN BE REAL OF PIPE BURIED BELOW (E.C	WIDE POLYETHYLENE DETECTABLE TYPE MARKING TAPE. THE TAPE SHALL BE RESISTANT TO ALKALIS, ACIDS AND OTI DILY RECOGNIZED AFTER BURIAL BY STANDARD LOCATING EQUIPMENT. PROVIDE CONTINUOUS YELLOW WITH BLACK G.: "CAUTION GAS LINE BURIED BELOW"). RAL, STATE AND LOCAL REQUIREMENTS, REFERENCED STANDARDS AND CONFORM TO CODES AND ORDINANCES OF	LETTER PF	RINTED ME	SSAGE F	REPEATED
			PRACTICABLE BETWEEN THE POINT OF DELIVERY AND THE OUTLETS. ALL EXCAVATION REQUIRED FOR PLUMBING WO E WITH PROJECT SPECIFICATIONS. <u>COORDINATE UNDERGROUND NATURAL GAS PIPING INSTALLATION WITH SITE CO</u>			IBILITY O)F THE
			ET. BURY ALL UNDERGROUND PIPING AT LEAST 3 FEET BELOW FINISHED GRADE. PROVIDE A CONTINUOUS DETECTABI		-	N TAMPE	D
BACKE	FILL, 12 INCHES ABOVE ALL BU	JRIED NON-METALLIC GAS L	INES.				
	H BASINS, VAULTS, MANHOLE		R UTILITIES. THE MINIMUM HORIZONTAL CLEARANCE BETWEEN GAS PIPE AND PARALLEL UTILITY PIPE SHALL BE 2 FEE ND STRUCTURES.	ET. DO NOT	INSTALL	GAS PIPE	- THROUGH
	LL AND SUPPORT ALL POLYE ⁻ EDURES.	THYLENE PIPING IN ACCORE	DANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL HEAT FUSION WELDS SHALL BE PERFORMED BY WELDERS (QUALIFIED	TO THE M	ANUFACT	TURER'S
PROVI	DE CONNECTION BETWEEN E	BURIED PLASTIC GAS PIPINO	GAND METALLIC RISER IN ACCORDANCE WITH THE GAS CODE.				
			PLUMBING FIXTURE SCHEDULE	I			REMARKS
-			FIXTURE	CC WASTE	ONNECTION: CW	S HW	
MARK	FIXTURE NAME	ТҮРЕ	DESCRIPTION	IN	IN	IN	
P-1	WATER CLOSET	(ADA) FLOOR MOUNT	FLOOR MOUNT, ELONGATED FRONT RIM, VITREOUS CHINA, TOP SPUD, ADA RIM HEIGHT, WHITE ELONGATED OPEN FRONT SEAT COVER WITH STAINLESS STEEL CHECK HINGE. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REQUIREMENTS.	3	1	-	1, 2, 3, 5
			1.28 GPF, MANUAL EXPOSED FLUSH VALVE, NON LEAK AND NOT HOLD OPEN HANDLE, CHROME PLATED. PROVIDE WITH ALL APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT.				
			CHILDRENS FLOOR MOUNT, 10" HEIGHT, ELONGATED FRONT RIM, VITREOUS CHINA, TOP SPUD, WHITE ELONGATED OPEN FRONT SEAT COVER, MEETS ANSI A117.1 REQUIREMENTS.				
	WATER CLOSET	FLOOR MOUNT	1.28 GPF, MANUAL EXPOSED FLUSH VALVE, NON LEAK AND NOT HOLD OPEN HANDLE, CHROME PLATED. PROVIDE WITH ALL	3	1	-	1, 2, 3, 5
P-1C			APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT.				
P-1C P-2	LAVATORY	(ADA) WALL MOUNT		2	1/2	1/2	1, 2, 3, 4, 5, 6
	LAVATORY	(ADA) WALL MOUNT	APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REQUIREMENTS. MOUNTING	2	1/2	1/2	1, 2, 3, 4, 5, 6
	LAVATORY	(ADA) WALL MOUNT	APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REQUIREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES, VANDAL RESISTANT,	2	1/2	1/2	1, 2, 3, 4, 5, 6
	LAVATORY	(ADA) WALL MOUNT	APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REQUIREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES, VANDAL RESISTANT, SINGLE METAL LEVER HANDLE. PROVIDE WITH ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION.	2	1/2	1/2	1, 2, 3, 4, 5, 6
P-2			APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REQUIREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES, VANDAL RESISTANT, SINGLE METAL LEVER HANDLE. PROVIDE WITH ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. 24"X20" SINGLE BOWL, 15" BOWL DEPTH, POLYPROPYLENE, WHITE FINISH, DECK TYPE 4" CENTERSET FAUCET KNOCKOUTS, ANGLE LEGS. 1.5 GPM, TOP MOUNT, CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, 4" CENTERS, VANDAL RESISTANT WRIST BLADE HANDLES,	2			
P-2 P-3	SINK	FLOOR MOUNT	 APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REQUIREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES, VANDAL RESISTANT, SINGLE METAL LEVER HANDLE. PROVIDE WITH ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. 24"X20" SINGLE BOWL, 15" BOWL DEPTH, POLYPROPYLENE, WHITE FINISH, DECK TYPE 4" CENTERSET FAUCET KNOCKOUTS, ANGLE LEGS. 1.5 GPM, TOP MOUNT, CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, 4" CENTERS, VANDAL RESISTANT WRIST BLADE HANDLES, CHROME PLATED, LESS SPRAY. ANSI 117.1 AND ASME A112.18.1 COMPLIANT. 22"x19", 18 GA. STAINLESS STEEL, 4" BOWL DEPTH, TOP MOUNT, SATIN FINISH, ADA AND ANSI A117.1 COMPLIANT. PROVIDE WITH 	2	1/2	1/2	1, 2, 4, 5
P-2 P-3	SINK	FLOOR MOUNT	APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REQUIREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES, VANDAL RESISTANT, SINGLE METAL LEVER HANDLE. PROVIDE WITH ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. 24"X20" SINGLE BOWL, 15" BOWL DEPTH, POLYPROPYLENE, WHITE FINISH, DECK TYPE 4" CENTERSET FAUCET KNOCKOUTS, ANGLE LEGS. 1.5 GPM, TOP MOUNT, CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, 4" CENTERS, VANDAL RESISTANT WRIST BLADE HANDLES, CHROME PLATED, LESS STREL, 4" BOWL DEPTH, TOP MOUNT, SATIN FINISH, ADA AND ANSI A117.1 COMPLIANT. PROVIDE WITH STRAINER. 22"x19", 18 GA. STAINLESS STEEL, 4" BOWL DEPTH, TOP MOUNT, SATIN FINISH, ADA AND ANSI A117.1 COMPLIANT. PROVIDE WITH STRAINER. CHROME FINISH BUBBLER. 0.5 GPM, GOOSENECK FAUCET WITH 5" CENTERLINE, RIGID/SWIVEL SPOUT, COLOR CODED METAL DOME	2 2 2 2 2 2	1/2	1/2	1, 2, 4, 5
P-2 P-3 P-4	SINK	FLOOR MOUNT	APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REQUIREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES, VANDAL RESISTANT, SINGLE METAL LEVER HANDLE. PROVIDE WITH ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. 24"X20" SINGLE BOWL, 15" BOWL DEPTH, POLYPROPYLENE, WHITE FINISH, DECK TYPE 4" CENTERSET FAUCET KNOCKOUTS, ANGLE LEGS. 1.5 GPM, TOP MOUNT, CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, 4" CENTERS, VANDAL RESISTANT WRIST BLADE HANDLES, CHROME PLATED, LESS SPRAY. ANSI 117.1 AND ASME A112.18.1 COMPLIANT. 22"x19", 18 GA. STAINLESS STEEL, 4" BOWL DEPTH, TOP MOUNT, SATIN FINISH, ADA AND ANSI A117.1 COMPLIANT. PROVIDE WITH STRAINER. CHROME FINISH BUBBLER. 0.5 GPM, GOOSENECK FAUCET WITH 5" CENTERLINE, RIGID/SWIVEL SPOUT, COLOR CODED METAL DOME LEVER HANDLES.	2 2 2 2 2 4	1/2	1/2	1, 2, 4, 5
P-2 P-3 P-4 P-5	SINK SINK WASHER MACHINE BOX	FLOOR MOUNT	APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REQUIREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES, VANDAL RESISTANT, SINGLE METAL LEVER HANDLE. PROVIDE WITH ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. 24"X20" SINGLE BOWL, 15" BOWL DEPTH, POLYPROPYLENE, WHITE FINISH, DECK TYPE 4" CENTERSET FAUCET KNOCKOUTS, ANGLE LEGS. 1.5 GPM, TOP MOUNT, CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, 4" CENTERS, VANDAL RESISTANT WRIST BLADE HANDLES, CHROME PLATED, LESS SPRAY. ANSI 117.1 AND ASME A112.18.1 COMPLIANT. 22"x19", 18 GA. STAINLESS STEEL, 4" BOWL DEPTH, TOP MOUNT, SATIN FINISH, ADA AND ANSI A117.1 COMPLIANT. PROVIDE WITH STRAINER. CHROME FINISH BUBBLER. 0.5 GPM, GOOSENECK FAUCET WITH 5" CENTERLINE, RIGID/SWIVEL SPOUT, COLOR CODED METAL DOME LEVER HANDLES. STEEL BOX AND FACE PLATE, QUARTER TURN BALL VALVES, COPPER SWEAT 12" WIDE, 5' LONG, 9" WIDE THROAT, STAINLESS STEEL TRENCH DRAIN, BAR GRATE. MODULAR CHANNEL SECTIONS SHALL BE MADE OF 12 GA. TYPE 304 STAINLESS STEEL. PROVIDE GASKET FOR FLANGED CONNECTIONS. CHANNEL SHALL BE PROVIDED WITH 1.04%	2 2 2 2 2 4 3	1/2	1/2	1, 2, 4, 5
P-2 P-3 P-4 P-5 P-6	SINK SINK SINK WASHER MACHINE BOX TRENCH DRAIN	FLOOR MOUNT	 APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REOUREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES, VANDAL RESISTANT, SINGLE METAL LEVER HANDLE. PROVIDE WITH ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. 24"X20" SINGLE BOWL, 15" BOWL DEPTH, POLYPROPYLENE, WHITE FINISH, DECK TYPE 4" CENTERSET FAUCET KNOCKOUTS, ANGLE LEGS. 1.5 GPM, TOP MOUNT, CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, 4" CENTERS, VANDAL RESISTANT WRIST BLADE HANDLES, CHROME PLATED, LESS SPRAY. ANSI 117.1 AND ASME A112.18.1 COMPLIANT. 22"x19", 18 GA. STAINLESS STEEL, 4" BOWL DEPTH, TOP MOUNT, SATIN FINISH, ADA AND ANSI A117.1 COMPLIANT. PROVIDE WITH STRAINER. CHROME FINISH BUBBLER 0.5 GPM, GOOSENECK FAUCET WITH 5" CENTERLINE, RIGID/SWIVEL SPOUT, COLOR CODED METAL DOME LEVER HANDLES. STEEL BOX AND FACE PLATE, QUARTER TURN BALL VALVES, COPPER SWEAT 12" WIDE, 5' LONG, 9" WIDE THROAT, STAINLESS STEEL TRENCH DRAIN, BAR GRATE. MODULAR CHANNEL SECTIONS SHALL BE MADE OF 12 GA. TYPE 304 STAINLESS STEEL. PROVIDE GASKET FOR FLANGED CONNECTIONS. CHANNEL SHALL BE PROVIDED WITH 1.04% PRE-SLOPE MECHANICAL LOCKDOWN DEVICES. PROVIDE WITH NO-HUB BOTTOM OUTLET AND BOTTOM DOME STRAINER. CASIT IRON BODY, BOTTOM OUTLET, INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR, NICKEL BRONZE STRAINER, TRAP 	2 2 2 2 4 3 3	1/2 1/2 1/2 -	1/2	1, 2, 4, 5 1, 2, 4, 5 1, 2, 4, 5, 6 5
P-2 P-3 P-4 P-5 P-6 FD	SINK SINK SINK WASHER MACHINE BOX TRENCH DRAIN FLOOR DRAIN	FLOOR MOUNT	 APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER. MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REOUIREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES, VANDAL RESISTANT, SINGLE METAL LEVER HANDLE. PROVIDE WITH ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. 24"X20" SINGLE BOWL, 15" BOWL DEPTH, POLYPROPYLENE, WHITE FINISH, DECK TYPE 4" CENTERSET FAUCET KNOCKOUTS, ANGLE LEGS. 1.5 GPM, TOP MOUNT, CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, 4" CENTERS, VANDAL RESISTANT WRIST BLADE HANDLES, CHROME PLATED, LESS SPRAY. ANSI 117.1 AND ASME A112.18.1 COMPLIANT. 22"x19", 18 GA. STAINLESS STEEL, 4" BOWL DEPTH, TOP MOUNT, SATIN FINISH, ADA AND ANSI A117.1 COMPLIANT. PROVIDE WITH STRAINER. CHROME FINISH BUBBLER. 0.5 GPM, GOOSENECK FAUCET WITH 5" CENTERLINE, RIGID/SWIVEL SPOUT, COLOR CODED METAL DOME LEVER HANDLES. STEEL BOX AND FACE PLATE, QUARTER TURN BALL VALVES, COPPER SWEAT 12" WIDE, 5' LONG, 9" WIDE THROAT, STAINLESS STEEL TRENCH DRAIN, BAR GRATE. MODULAR CHANNEL SECTIONS SHALL BE MADE OF 12 GA. TYPE 304 STAINLESS STEEL. PROVIDE GASKET FOR FLANGED CONNECTIONS. CHANNEL SHALL BE PROVIDED WITH 1.04% PRE-SLOPE MECHANICAL LOCKDOWN DEVICES. PROVIDE WITH NO-HUB BOTTOM OUTLET AND BOTTOM DOME STRAINER. CASIT IRON BODY, BOTTOM OUTLET, INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR, NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION. 12'X12'x6" CAST IRON BODY, BOTTOM OUTLET, SQUARE GRATE WITH 3/4" SLOTTED OPENINGS, WHITE ACID RESISTING PROCELAIN 	2 2 2 2 4 3 3 3	1/2 1/2 1/2 - 1/2	1/2	1, 2, 4, 5 1, 2, 4, 5 1, 2, 4, 5, 6 5 1, 5
P-2 P-3 P-4 P-5 P-6 FD FS	SINK SINK SINK WASHER MACHINE BOX TRENCH DRAIN FLOOR DRAIN FLOOR SINK	FLOOR MOUNT	 APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER, PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS. PROVIDE WITH GRID STRAINER, MEETS ANSI/ASME A112.19.2 AND ANSI A117.1 REOUIREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES, VANDAL RESISTANT, SINGLE METAL LEVER HANDLE. PROVIDE WITH ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. 24"X20" SINGLE BOWL, 15" BOWL DEPTH, POLYPROPYLENE, WHITE FINISH, DECK TYPE 4" CENTERSET FAUCET KNOCKOUTS, ANGLE LEGS. 1.5 GPM, TOP MOUNT, CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, 4" CENTERS, VANDAL RESISTANT WRIST BLADE HANDLES, CHROME PLATED, LESS SPRAY. ANSI 117.1 AND ASME A112.18.1 COMPLIANT. 22"X19", 18 GA. STAINLESS STEEL, 4" BOWL DEPTH, TOP MOUNT, SATIN FINISH, ADA AND ANSI A117.1 COMPLIANT. PROVIDE WITH STRAINER. CHROME FINISH BUBBLER. 0.5 GPM, GOOSENECK FAUCET WITH 5" CENTERLINE, RIGID/SWIVEL SPOUT, COLOR CODED METAL DOME LEVER HANDLES. STEEL BOX AND FACE PLATE, QUARTER TURN BALL VALVES, COPPER SWEAT 12" WIDE, 5' LONG, 9" WIDE THROAT, STAINLESS STEEL TRENCH DRAIN, BAR GRATE. MODULAR CHANNEL SECTIONS SHALL BE MADE GOT 12 GA. TYPE 304 STAINLESS STEEL PROVIDE GASKET FOR FLANGED CONNECTIONS. CHANNEL SHALL BE PROVIDED WITH 1.04% PRE-SLOPE MECHANICAL LOCKDOWN DEVICES. PROVIDE WITH NO-HUB BOTTOM OUTLET AND BOTTOM DOME STRAINER. CASIT IRON BODY, BOTTOM OUTLET, INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR, NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION. 12"X12"x6" CAST IRON BODY, BOTTOM OUTLET, SOUARE GRATE WITH 34" SLOTTED OPENINGS, WHITE ACID RESISTING PROCELAIN ENAMEL INTERIOR AND TOP, WHITE ANTI SPLASH DOME STRAINER, TRAP PRIMER CONNECTION. 	2 2 2 2 4 3 3 3 3 3	1/2 1/2 1/2 - 1/2	1/2	1, 2, 4, 5 1, 2, 4, 5 1, 2, 4, 5, 6 5 1, 5
P-2 P-3 P-4 P-5 P-6 FD FS RD	SINK SINK SINK WASHER MACHINE BOX TRENCH DRAIN FLOOR DRAIN FLOOR SINK ROOF DRAIN	FLOOR MOUNT	 APPURETENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. ADA COMPLIANT. 20"X18", VITREOUS CHINA, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. PROVIDE WITH ADA TRAP, STOP, AND SUPPLY PROTECTORS, PROVIDE WITH GOT STRAINER MEETS ANSIASME A112.19.2 AND ANSI A117.1 REQUIREMENTS. MOUNTING HEIGHT OF FIXTURE TO BE AS PER IPC AND ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL. 0.5 GPM AERATOR, CHROME PLATED, FAUCET WITH INTEGRAL 5" SPOUT, QUARTER TURN DISC CARTRIDGES. VANDAL RESISTANT, SINGLE METAL LEVER HANDLE. PROVIDE WITH ALL APPURTENANCES FOR A COMPLETE AND FUNCTIONING INSTALLATION. 24"X20" SINGLE BOWL, 15" BOWL DEPTH, POLYPROPYLENE, WHITE FINISH, DECK TYPE 4" CENTERSET FAUCET KNOCKOUTS, ANGLE LEGS. 1.5 GPM, TOP MOUNT, CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, 4" CENTERS, VANDAL RESISTANT WRIST BLADE HANDLES, CHROME PLATED, LESS SPRAY. ANSI 117.1 AND ASME A112.18.1 COMPLIANT. 22"x19", 18 GA. STAINLESS STEEL, 4" BOWL DEPTH, TOP MOUNT, SATIN FINISH, ADA AND ANSI A117.1 COMPLIANT. PROVIDE WITH STRAINER. CHROME FINISH BUBBLER. 0.5 GPM, GOOSENECK FAUCET WITH 5" CENTERLINE, RIGID/SWIVEL SPOUT, COLOR CODED METAL DOME LEVER HANDLES. STEEL BOX AND FACE PLATE, QUARTER TURN BALL VALVES, COPPER SWEAT 12" WIDE, 5" LONG, 9" WIDE THROAT, STAINLESS STEEL TRENCH DRAIN, BAR GRATE, MODULAR CHANNEL SECTIONS SHALL BE MADE OF 12 GA. TYPE 304 STAINLESS STEEL, PROVIDE GASKET FOR FLANGED CONNECTIONS. CHANNEL SHALL BE PROVIDED WITH 1.04% PRE-SLOPE MECHANICAL LOCKDOWN DEVICES. PROVIDE WITH NO-HUB BOTTOM OUTLET AND BOTTOM DOME STRAINER. CASIT IRON BODY, BOTTOM OUTLET, INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR, NICKEL BRONZE STRAINER. TRAP PRIMER CONNECTION. 12" DIAMETER, CAST IRON BODY, BOTTOM OUTLET, SQUARE GRATE WITH 34" SLOTTED OPENINGS, WHITE ACID RESISTING PROCELAIN ENAMEL INTERIOR AND TOP, WHITE ANTI SPLASH DOME STRAINER, TRAP PRIMER CONNECTION. 12" DIAMETER, CAST IRON BODY, COMBINATION MEMBRANE FLAHSING CLAMP/GRAVEL G	2 2 2 2 4 3 3 3 3 3 3 3	1/2 1/2 1/2 - 1/2	1/2	1, 2, 4, 5 1, 2, 4, 5 1, 2, 4, 5, 6 5 1, 5

^{1.} WATER SUPPLY TAPPING TO EACH FIXTURE SHALL BE FULL SIZE.

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

DT DUP, INC. STRUCTURAL USTRIAL R 05371 I, FL 32502 I32-8631

NES P.E. 3ER 58080

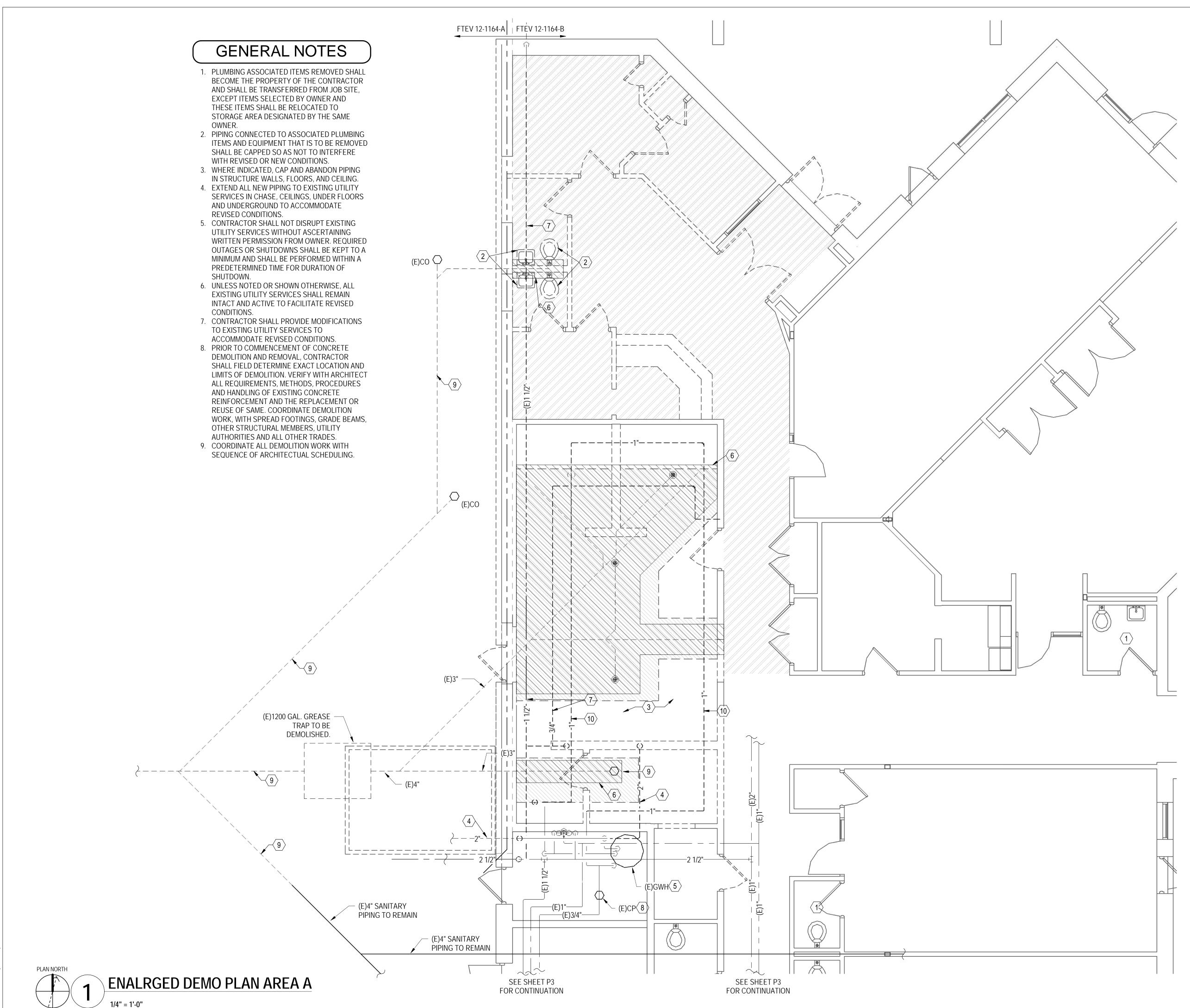


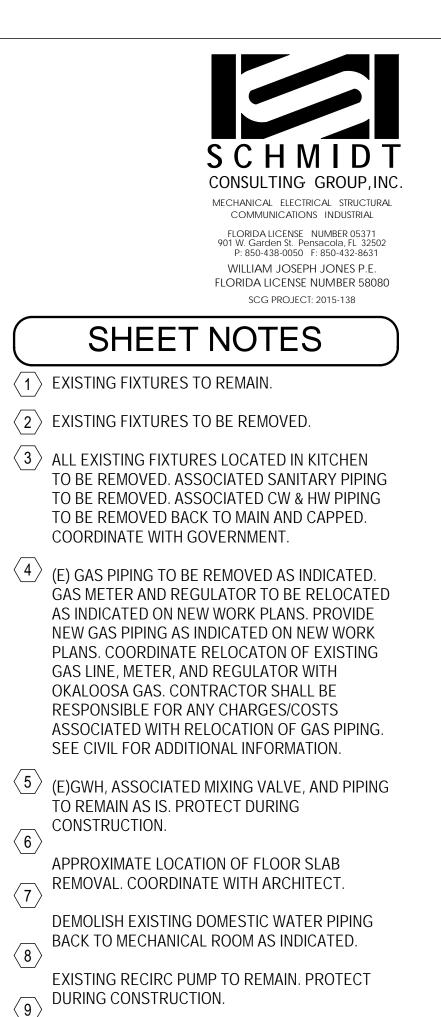
 MOUNT PLUMBING FIXTURES LABELED "ADA" IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DRAWINGS.

4. PROVIDE HOT WATER TO FIXTURES WHERE INDICATED.

^{5.} PROVIDE FIXTURES WITH ALL APPURTENENANCES AS NECESSARY FOR A COMPLETE INSTALLATION.

6. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.





EXISTING SANITARY PIPING TO BE REMOVED AS $\frac{1}{10}$ INDICATED.

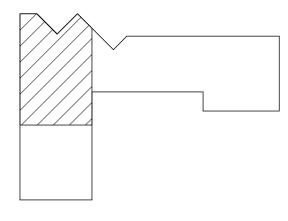
 $\langle 6 \rangle$

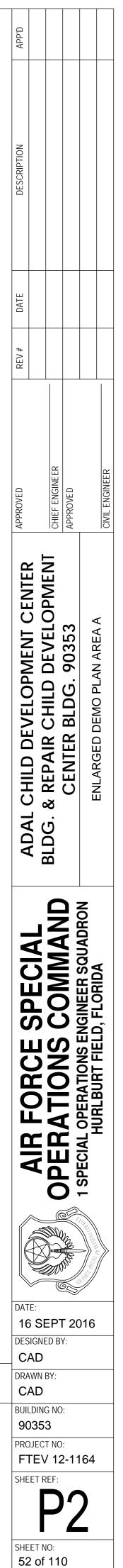
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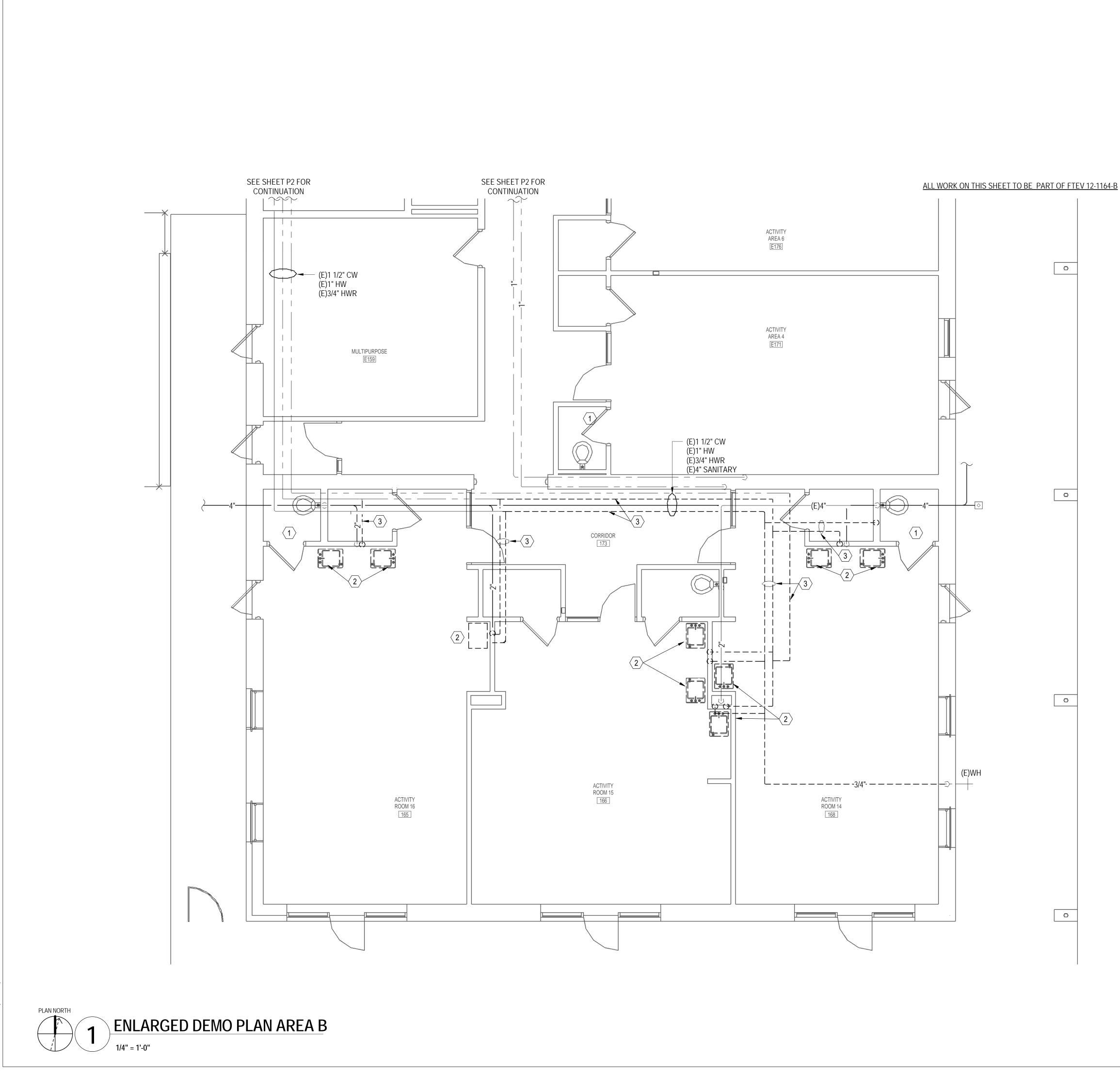
 $\langle 8 \rangle$

EXISTING 1" HOT WATER PIPING TO BE REMOVED AS INDICATED.

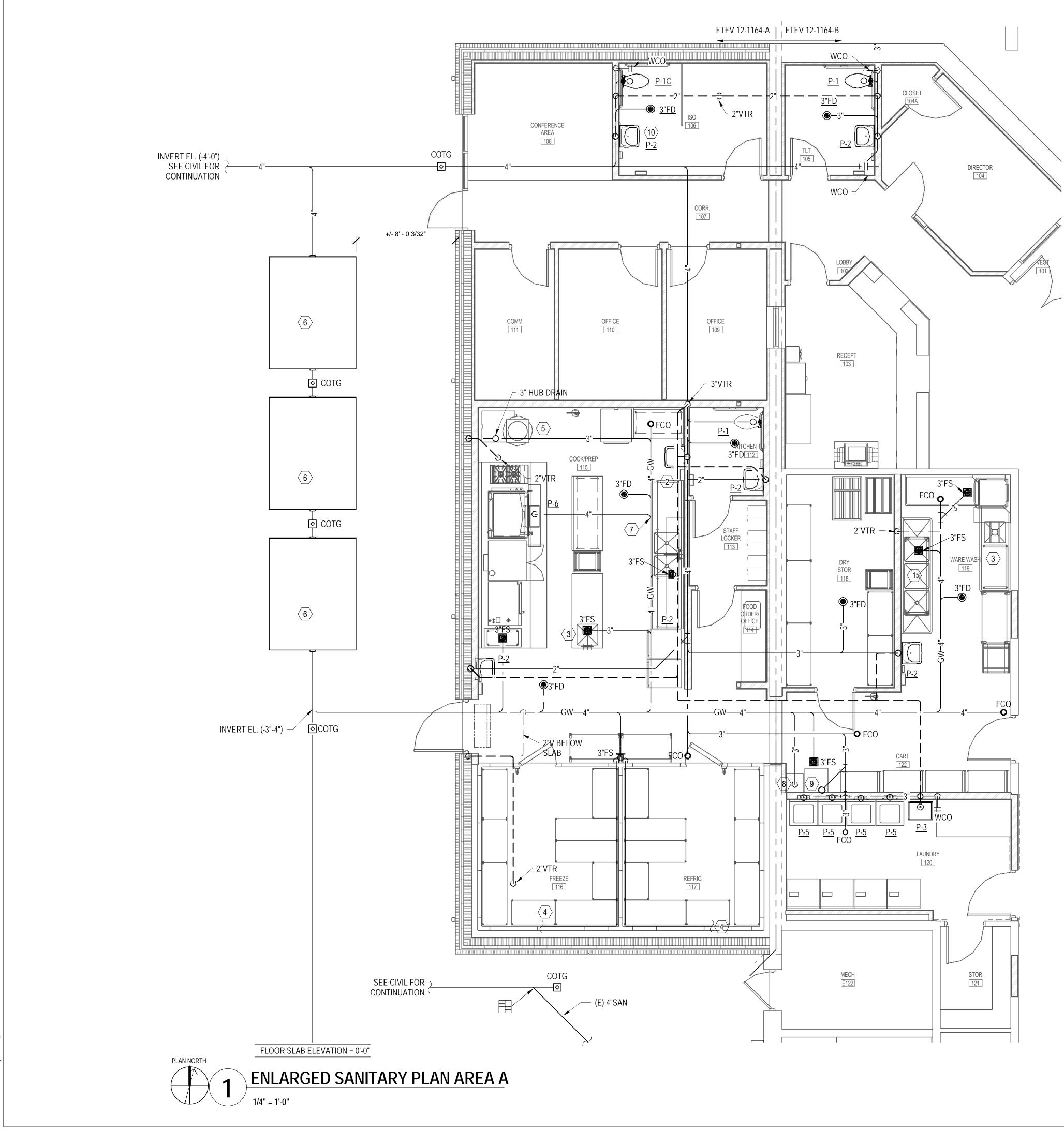






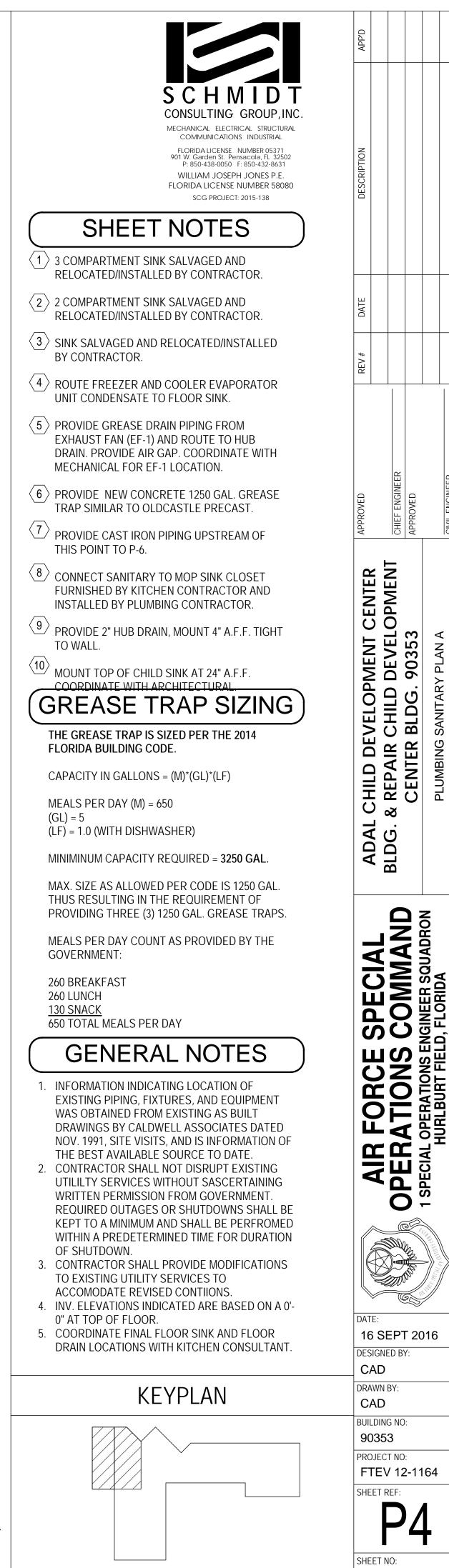


	APP'D		
SCHARDER SCHARDER CONSULTING GROUP, INC. MECHANICAL ELECTRICAL STRUCTURAL COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 WILLIAM JOSEPH JONES P.E. FLORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138	DESCRIPTION		
EXISTING FIXTURES TO REMAIN. PROTECT DURING CONSTRUCTION.			
2 EXISTING FIXTURES TO BE REPLACED IN KIND. ASSOCIATED CW, HW AND SAN PIPING TO REMAIN AND BE MODIFIED AS NECESSARY FOR NEW FIXTURES.	/# DATE		
3 EXISTING CVPVC WATER SUPPLY PIPING TO BE REMOVED AND REPLACED WITH COPPER PIPING OF THE SAME SIZE.	REV		
	APPROVED	CHIEF ENGINEER APPROVED	CIVIL ENGINEER
	ADAL CHILD DEVELOPMENT CENTER	BLDG. & REPAIR CHILD DEVELOPMENT CENTER BLDG. 90353	ENLARGED DEMO PLAN AREA B
	DATE:		I SPECIAL OPERATIONS ENGINEER SQUAURON HURLBURT FIELD, FLORIDA
	DESIG		016
KEYPLAN		D ING NO:	
	FTE SHEET		64



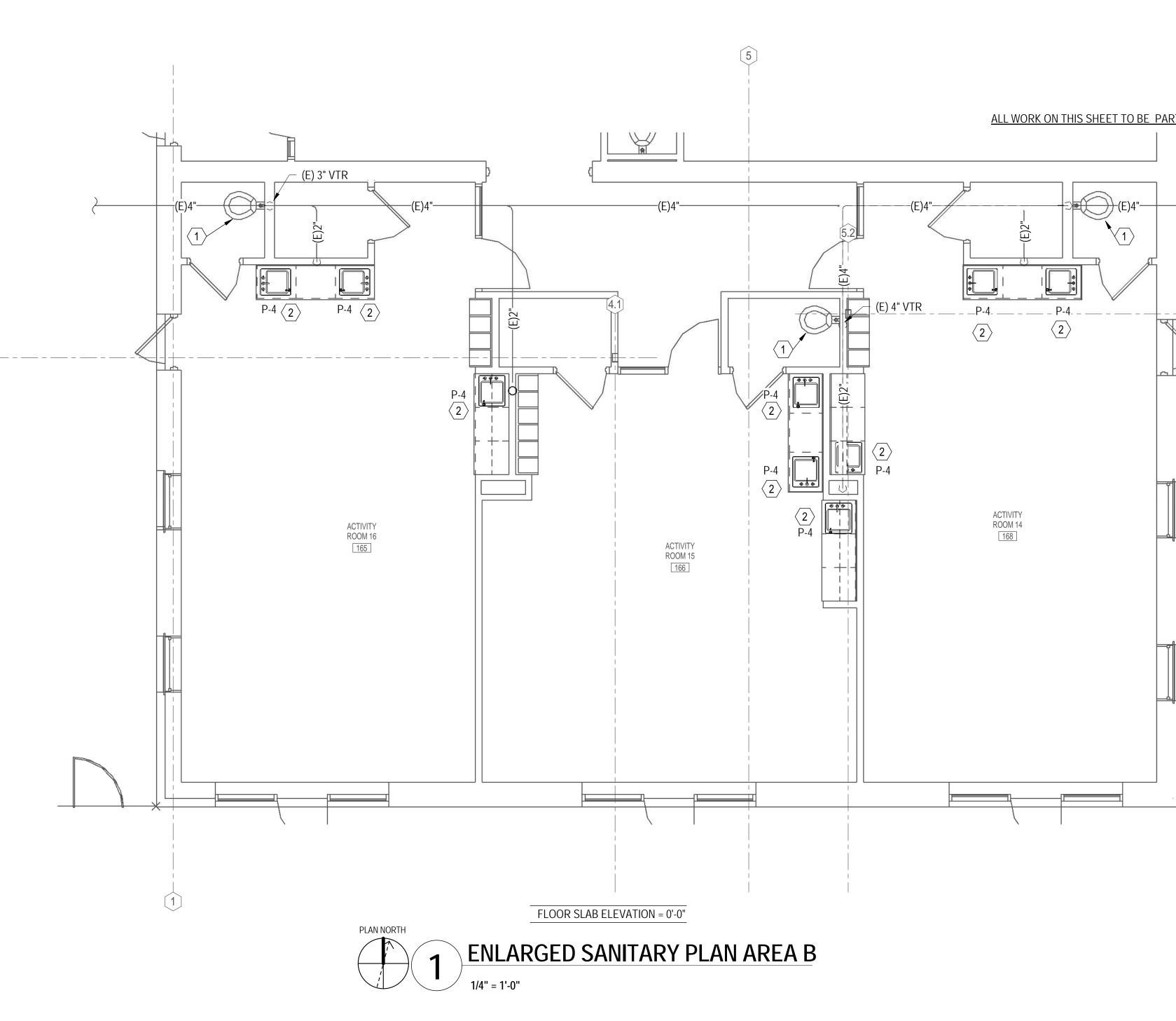
STANDARD D LAYOUT (24" X 36

SEE OVERALL SEQUENCING PLAN SHEET G4 FOR MORE INFORMATION.



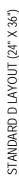
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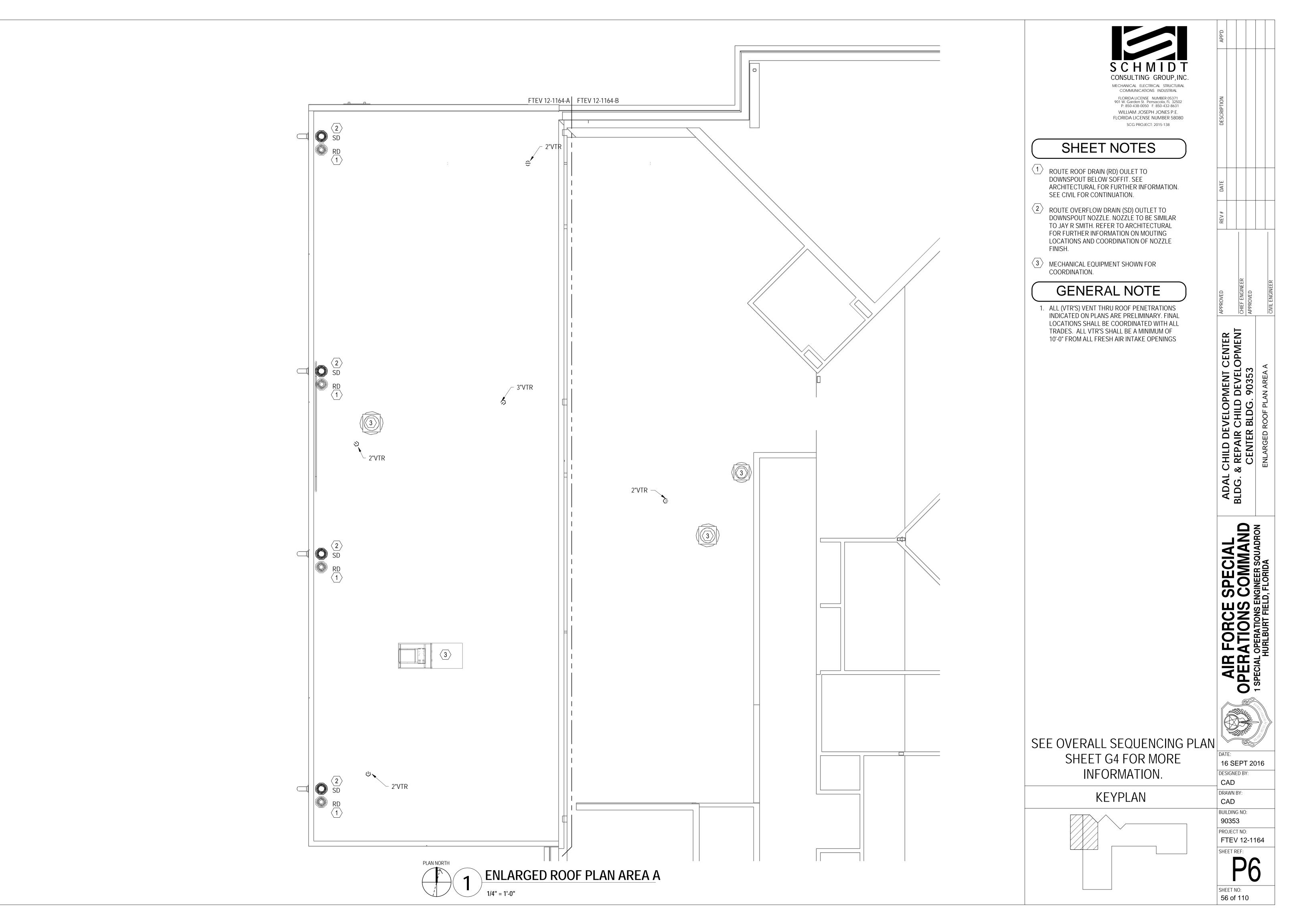


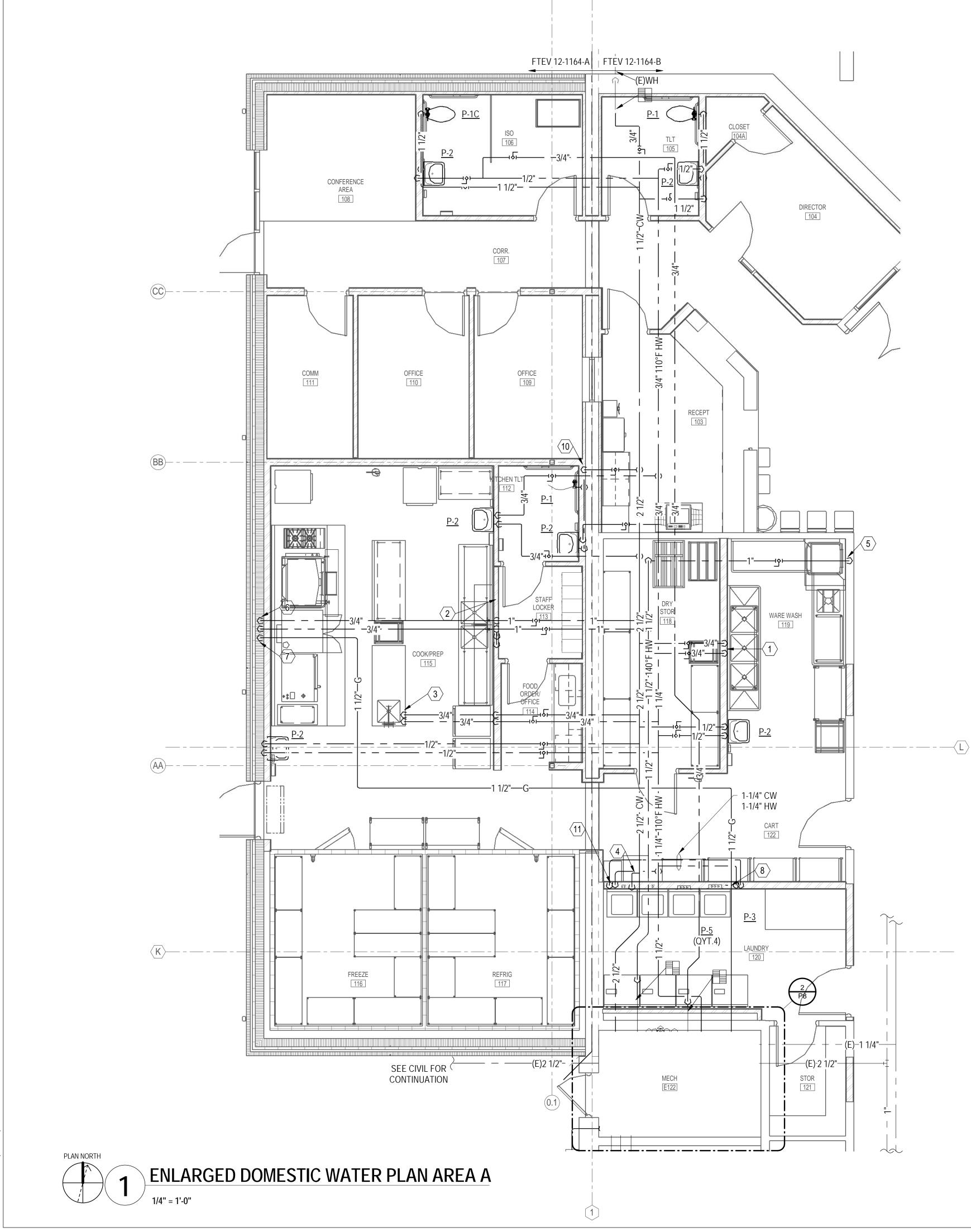


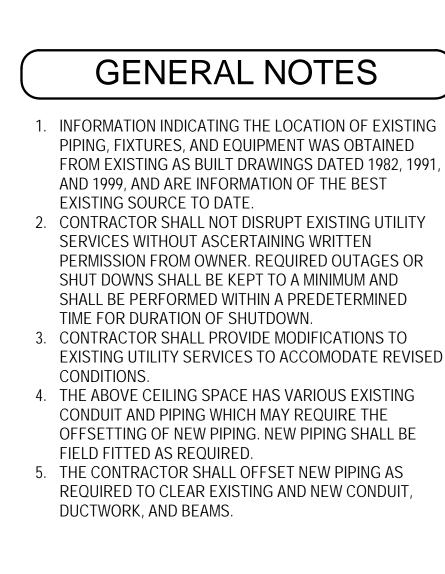


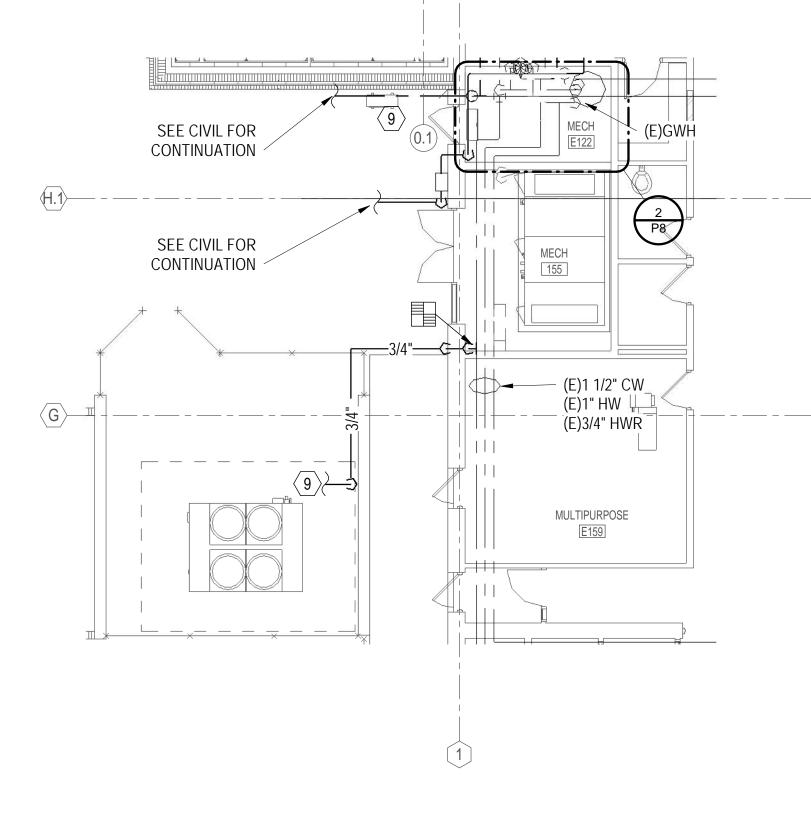
		Q,ddy		
	S C HOND D CONSULTING GROUP, INC. MECHANICAL ELECTRICAL STRUCTURAL COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 WILLIAM JOSEPH JONES P.E. FLORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138 STRUCTURES TO REMAIN. (1) EXISTING FIXTURES TO REMAIN. (2) MODIFY EXISTING SANITARY AS NECESSARY	DATE DESCRIPTION		
	FOR CONNECTION TO NEW SINK.	REV #		
RT OF FTEV 12-1164-B		APPROVED	CHIEF ENGINEER APPROVED	CIVIL ENGINEER
0.2		ADAL CHILD DEVELOPMENT CENTER	BLDG. & REPAIR CHILD DEVELOPMENT CENTER BLDG. 90353	
		AIR FORCE SPECIAL	OPERATIONS COMMAND	1 SPECIAL OPERATIONS ENGINEER SQUADRON HURLBURT FIELD, FLORIDA
	KEYPLAN	DATE: 16 DESIG CAI DRAW CAI	SEPT 20 SNED BY: D	
UENCING PLAN SHEET E INFORMATION.		903 PROJI FTE SHEE		164)











MEHCNAICAL ROOM AND YARD PLAN 2 Ζ 1/8" = 1'-0"



COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 WILLIAM JOSEPH JONES P.E.

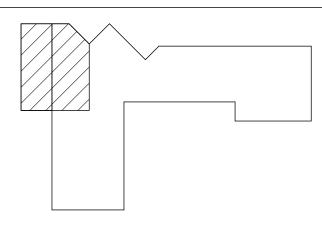
FLORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138

GENERAL NOTES SHEET NOTES

- $\langle 1 \rangle$ ROUTE 3/4" CW AND 3/4" 140°F HW DOWN IN STUD WALL TO THREE COMPARTMENT SINK (EXISTING/RELOCATED) AND INSTALL PER MFR. INSTRUCTIONS. PROVIDED BY KITCHEN DESIGN CONSTULTANT.
- $\langle 2 \rangle$ ROUTE 3/4" CW AND 3/4" 140°F HW DOWN IN STUD WALL TO TWO COMPARTMENT SINK (EXISTING/RELOCATED) AND INSTALL PER MFR. INTSTRUCTIONS. PROVIDED BY KITCHEN DESIGN CONSULTANT.
- (3) ROUTE 3/4" CW AND 3/4" 110°F HW DOWN IN STUD WALL AND LOOP 3/4" CW AND 3/4" HW SOFT COPPER TUBING UNDER SLAB TO NEW ISLAND SINK. NO JOINTS ALLOWED BELOW SLAB. PROVIDE SHUTOFF VALVES AT FLOOR. ROUTE BRAIDED S.S. PIPE FROM SHUTOFF VALVES TO SINK CONNECTION. PROVIDED BY KITCHEN DESIGN CONSULTANT.
- $\langle 4 \rangle$ ROUTE 3/4" CW PIPE DOWN IN STUD WALL TO ICE MAKER (EXISTING/RELOCATED) AND INSTALL PER MFR. INSTRUCTIONS.
- $\langle 5 \rangle$ ROUTE 1" 140°F HW DOWN IN STUD WALL TO DISHWASHER (EXISTING) AND INSTALL PER MFR. INSTRUCTIONS.
- 6 Route 3/4" CW and 3/4" 110°F HW down within WALL TO UTILITY DISTRIBUTION STATION (RELOCATED). PROVIDE BRAIDED S.S. FLEXIBLE PIPE CONNECTION FROM UTILITY DISTRIBUTION STATION TO TILTING SKILLET (PROVIDED BY KITCHEN VENDOR) AND COMBINATION OVEN (RELOCATED) AND INSTALL PER MFR. INSTRUCTIONS.
- $\langle 7 \rangle$ ROUTE 1-1/2" GAS PIPING TO UTILITY DISTRIBUTION SYSTEM (RELOCATED), THEN ROUTE GAS PIPING FROM UTILITY DISTRIBUTION TO COMBIOVEN (RELOCATED), CONVECTION OVEN (RELOCATED), TILTING SKILLET (PROVIDED BY KITCHEN VENDOR), AND BURNERS (PROVIDED BY KITCHEN VENDOR) AND SIZE AS REQUIRED BY EQUIPMENT MANUFACTURER.
- (8) ROUTE 1 1/2" CW AND 1 1/2" 110°F HW DOWN WITHIN WALL TO SERVE EACH WASHING MACHINE BOX AND SERVICE SINK. INSTALL PER MFR. INSTRUCTIONS.
- $\langle 9 \rangle$ ROUTE 3/4" MAKE UP WATER LINE FROM MECHANICAL ROOM OUT LOW THROUGH EXTERIOR WALL, UNDER GROUND AND STUB UP IN NEW MECHANICAL YARD FOR CONNECTION TO CHILLED WATER SYSTEM. COORDINATE WITH MECHANICAL. PROVIDE HEAT TRACE FOR ALL EXPOSED WATER PIPING AT 4 W/LF, COORDINATE WITH ELECTRICAL.
- $\langle 10 \rangle$ ROUTE 1-1/4" CW DOWN WITHING WALL TO SERVE FIXTURES.
- $\langle 11 \rangle$ CONNECT 3*4" COLD AND HOT WATER TO MOP SINK CLOSET FURNISHED BY KITCHEN CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR. COORDINATE SIZE WITH FURNISHED FIXTURE.

SEE OVERALL SEQUENCING PLAN SHEET G4 FOR MORE INFORMATION.

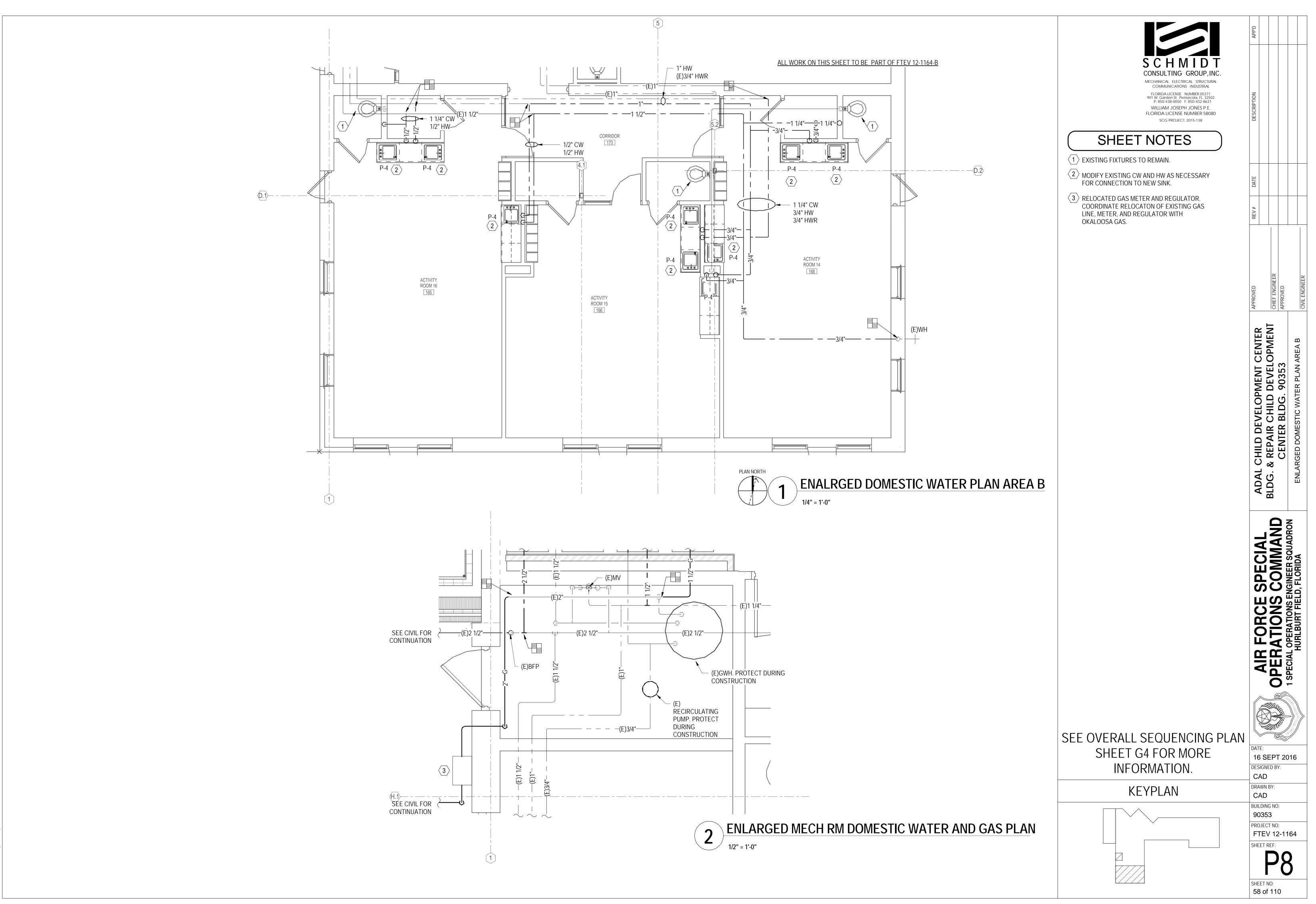
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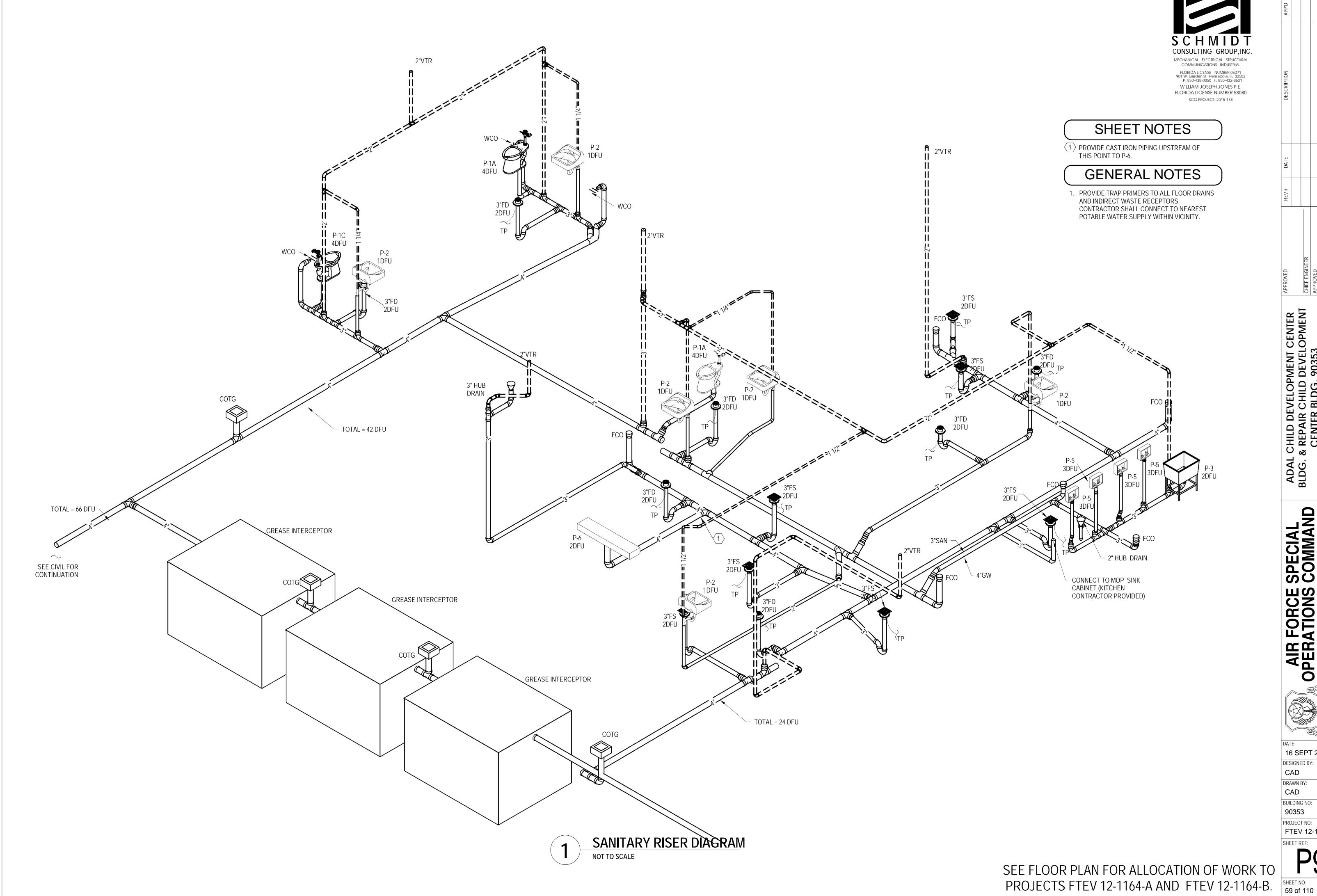
	APP'D					
	DESCRIPTION					
	REV # DATE					
	APPROVED		CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
	ADAL CHILD DEVELOPMENT CENTER			CENTER BLDG. 90353	ENI ABCED DOMESTIC WATER AND CAS DI AN ABEA A	בואבארטבט בטעובט דוט עיא בראויט טאט רבאוא ארבא א
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N	DATE 16 DESIG CA DRAV CA BUILL	SE GNEI D VN B	: РТ D В` Y:	Γ 20 γ:		
	90: PROJ	B53 ECT EV T RE	8 12 EF:	: 2-11	64 7	

EXISTING SOURCE TO DATE 2. CONTRACTOR SHALL NOT DISRUPT EXISTING UTILITY SERVICES WITHOUT ASCERTAINING WRITTEN PERMISSION FROM OWNER. REQUIRED OUTAGES OR SHUT DOWNS SHALL BE KEPT TO A MINIMUM AND SHALL BE PERFORMED WITHIN A PREDETERMINED TIME FOR DURATION OF SHUTDOWN.

- 3. CONTRACTOR SHALL PROVIDE MODIFICATIONS TO EXISTING UTILITY SERVICES TO ACCOMODATE REVISED
- 4. THE ABOVE CEILING SPACE HAS VARIOUS EXISTING CONDUIT AND PIPING WHICH MAY REQUIRE THE OFFSETTING OF NEW PIPING. NEW PIPING SHALL BE FIELD FITTED AS REQUIRED.
- 5. THE CONTRACTOR SHALL OFFSET NEW PIPING AS REQUIRED TO CLEAR EXISTING AND NEW CONDUIT, DUCTWORK, AND BEAMS.



STANDARD D LAYOUT (24" X 36



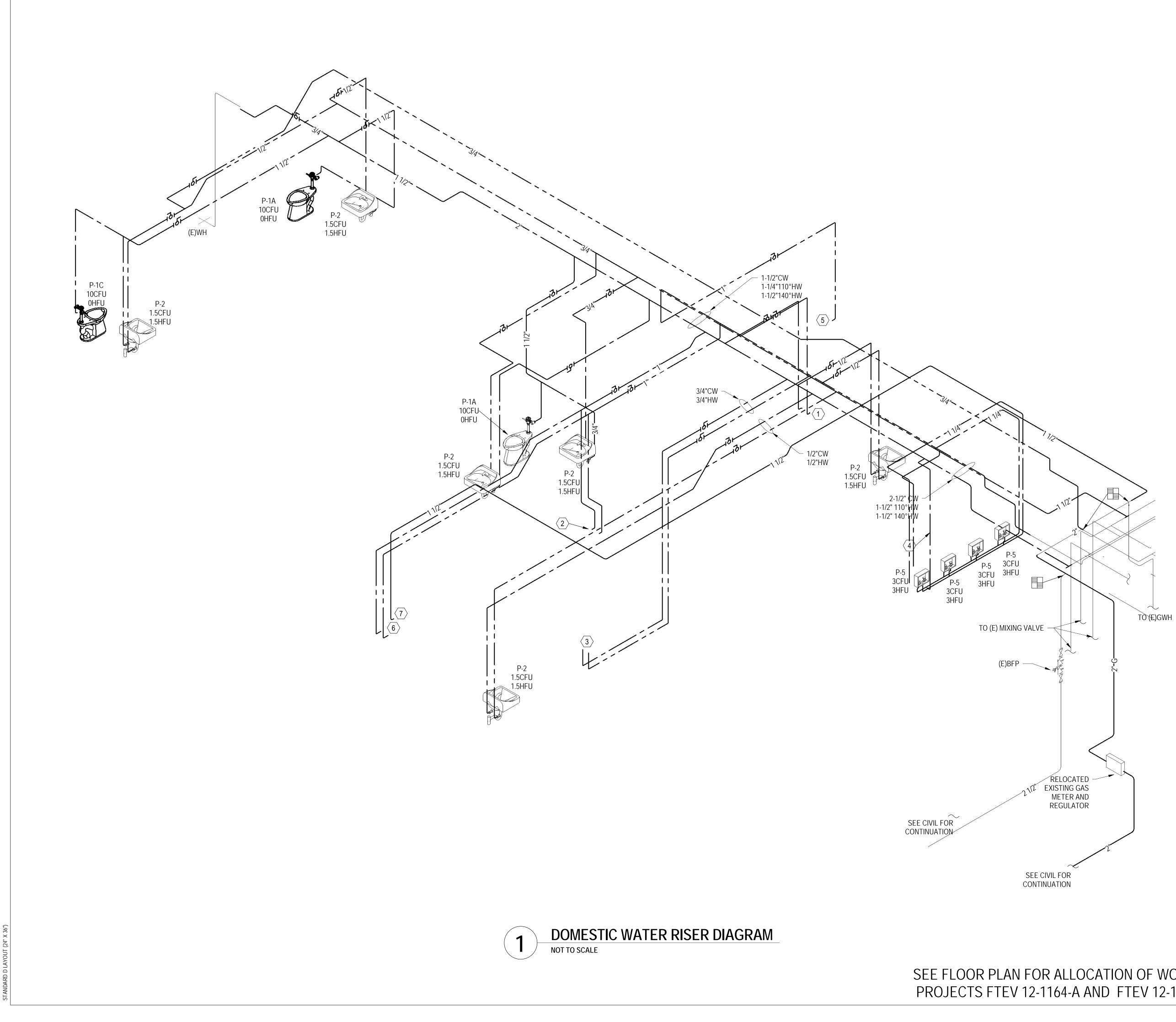




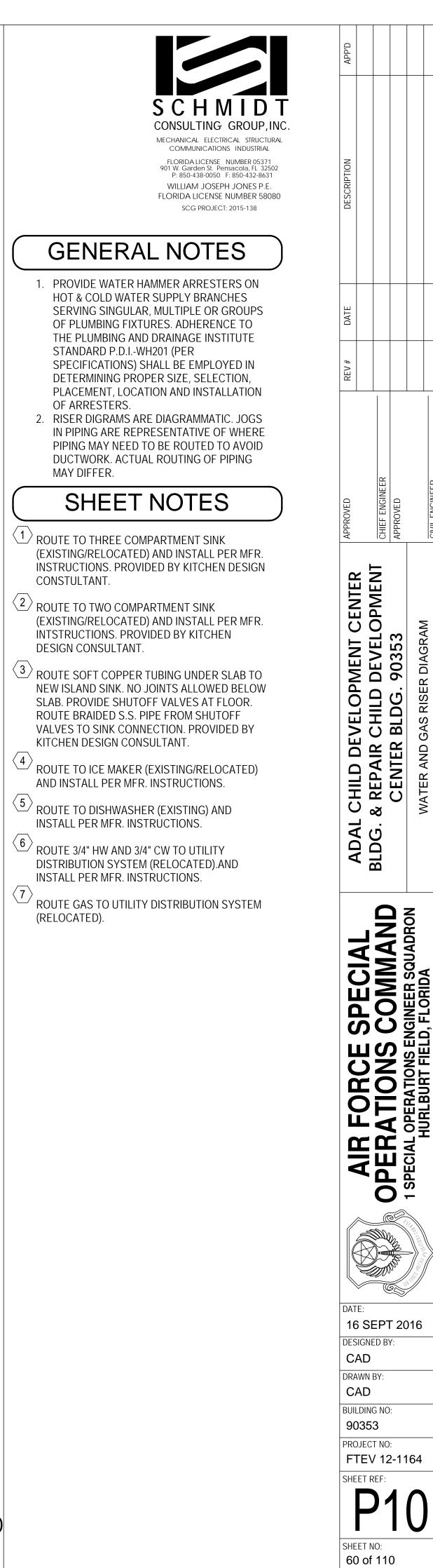


BUILDING NO: 90353 PROJECT NO: FTEV 12-1164 SHEET REF:

P9



SEE FLOOR PLAN FOR ALLOCATION OF WORK TO PROJECTS FTEV 12-1164-A AND FTEV 12-1164-B.

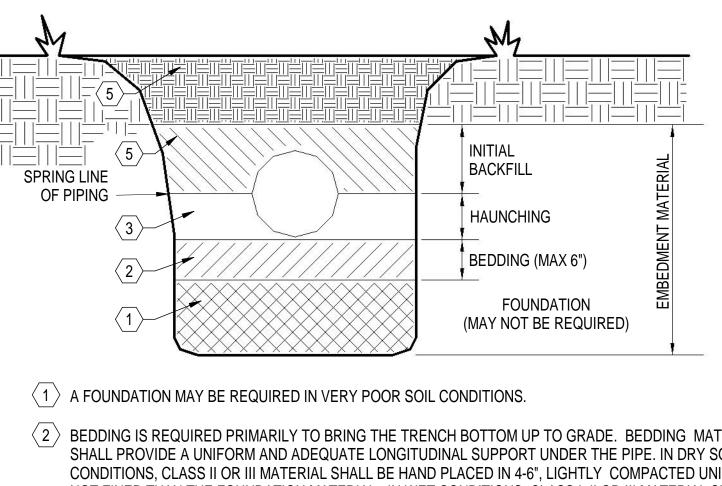


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MMAND EER SQUADRON

OPERATIONS EN HURLBURT FIELD



- $\langle 2 \rangle$ BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4-6", LIGHTLY COMPACTED UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET CONDITIONS, CLASS I, II OR III MATERIAL SHALL BE HAND PLACED, 4-6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL
- $\langle 3 \rangle$ HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
- (4) INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR III. IT SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF THE PIPE AND TAMPED BY A PORTABLE VIBRATOR.
- $\langle 5
 angle$ FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF ROADWAY. FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. A MINIMUM OF 30" OF COVER OVER THE TOP OF THE PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS WHEEL- LOADED.

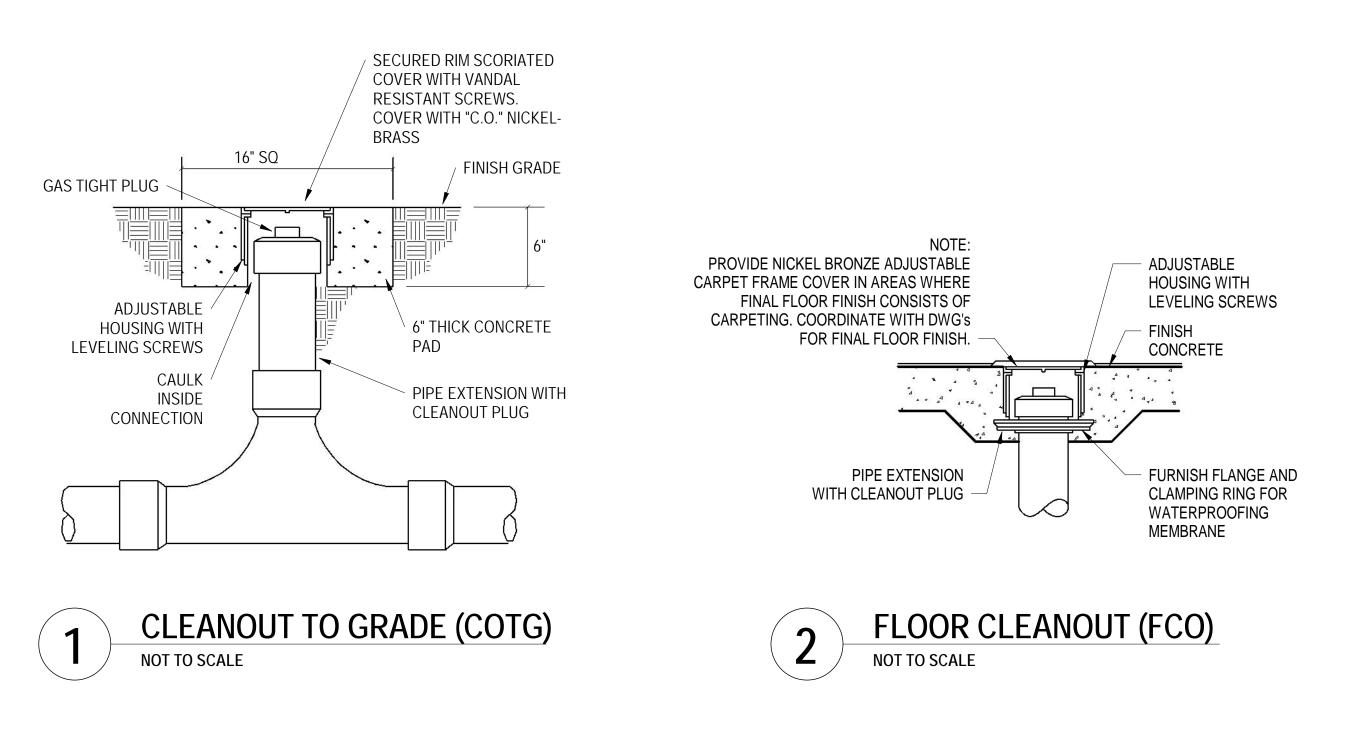
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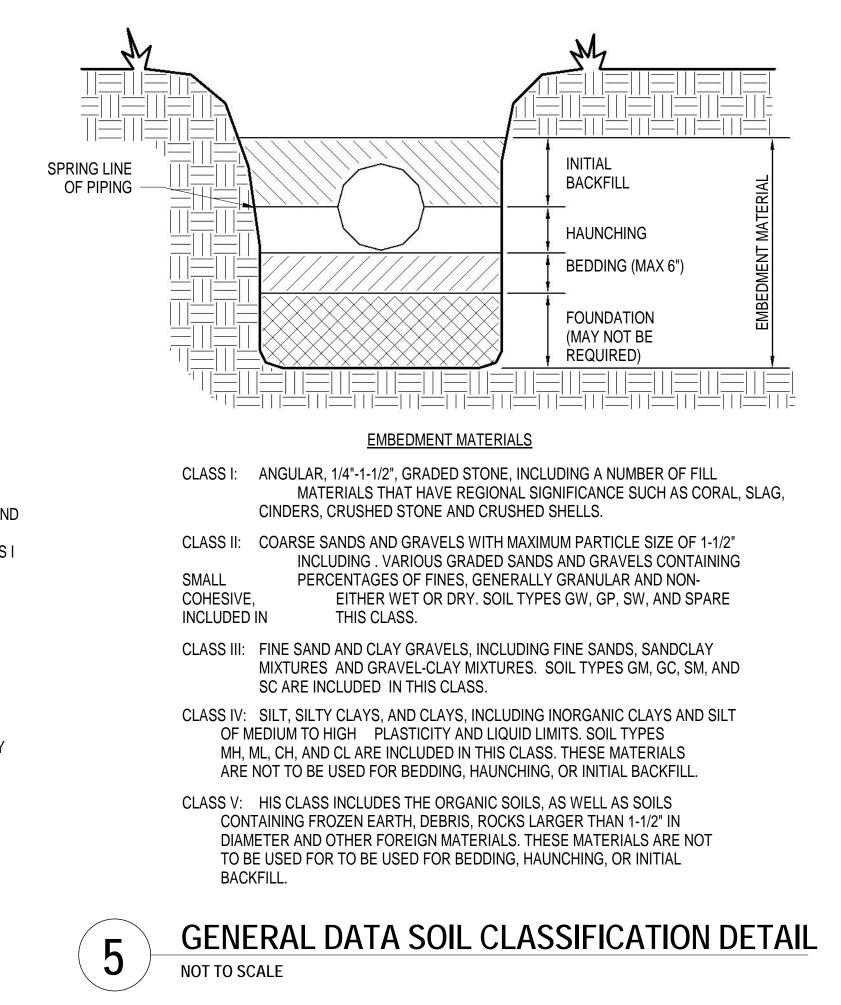
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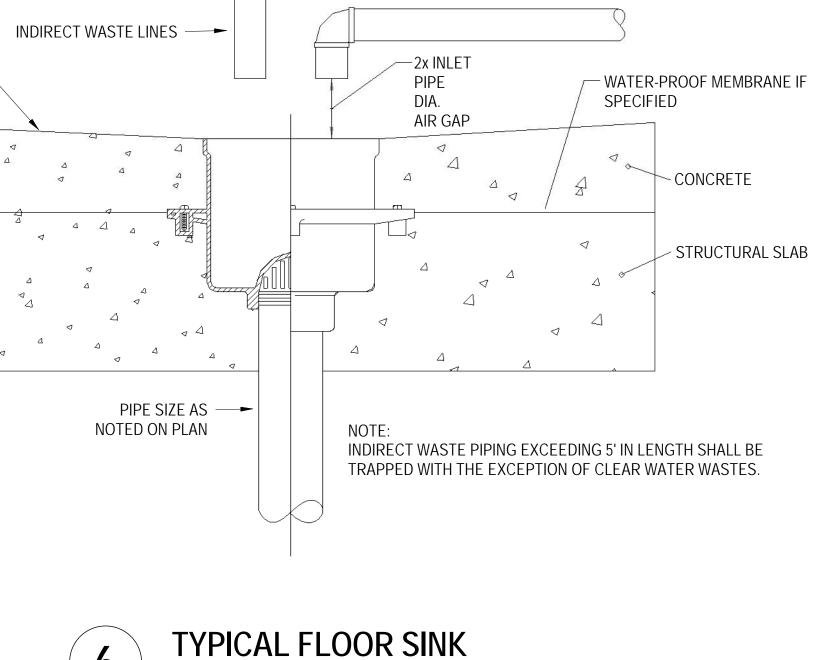
ALL EMBEDMENT MATERIALS SHALL BE NO LESS THAN 95% OF MAXIMUM DENSITY. LABORATORY TESTING OF THE SOIL WILL BE REQUIRED. THIS PROCEDURE SHALL BE REQUIRED ON ALL INSTALLATIONS.

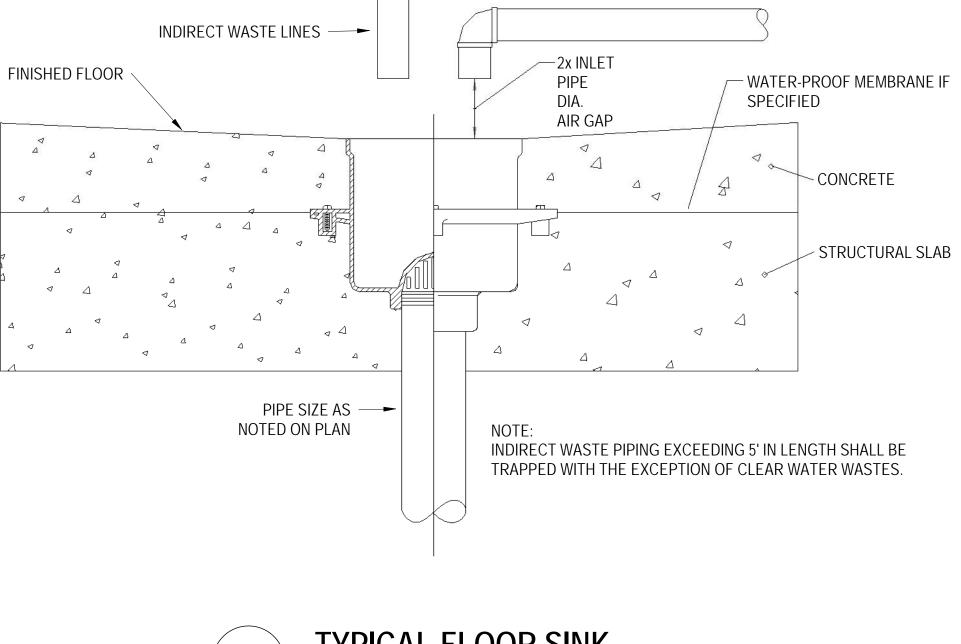
GENERAL DATA BACKFILLING REQ. DETAIL

NOT TO SCALE









6

NOT TO SCALE



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SCG PROJECT: 2015-138



1/2" TRAP PRIMER

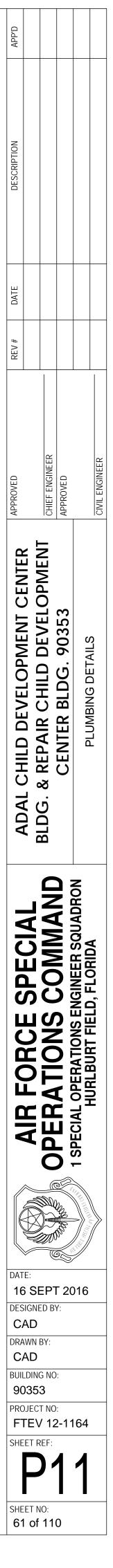
CONNECTION

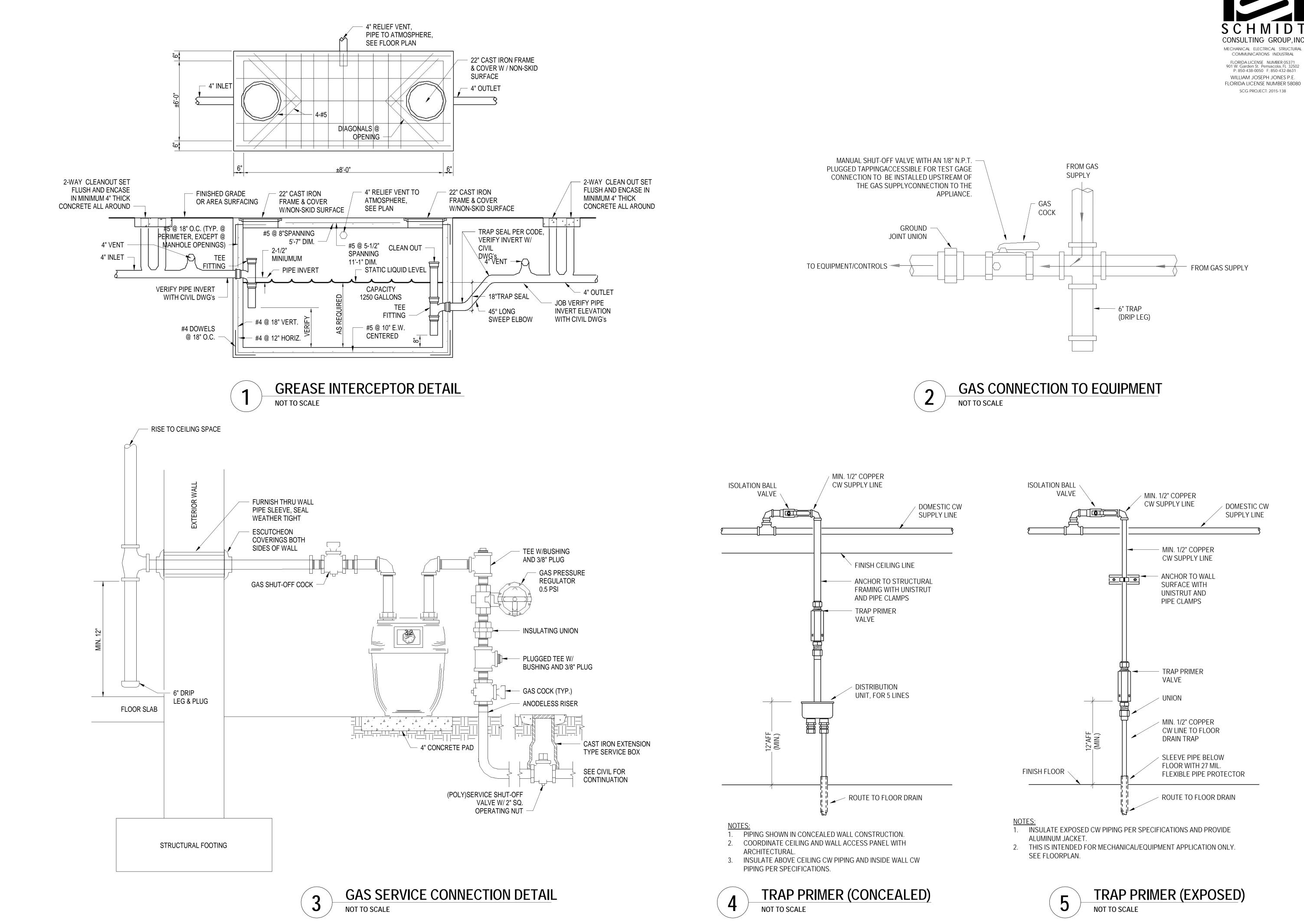
- FINISH FLOOR

FLOOR

- P-TRAP

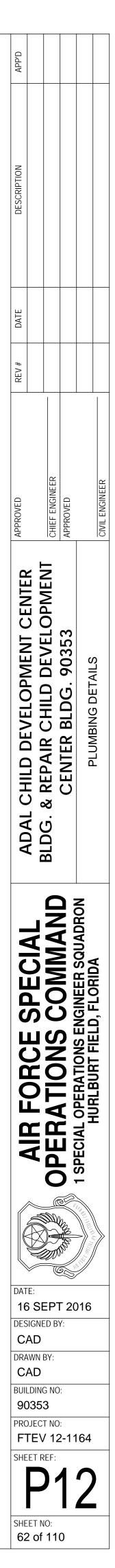
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	POSITIVE PRESSURE SUPPLY DUCT TURNING UP	——О	PIPING ELBOW TURN UP
	NEGATIVE PRESSURE RETURN OR EXHAUST		ELBOW TURN DOWN
	DUCT TURNING UP		CONNECTION, BOTTOM
	POSITIVE PRESSURE SUPPLY DUCT TURNING DOWN	CHWS	CHILLED WATER SUPPLY PIPING
	NEGATIVE PRESSURE RETURN OR EXHAUST DUCT TURNING DOWN	CHWR	CHILLED WATER RETURN PIPING
		HWS	HEATING WATER SUPPLY PIPING
24"/12"<	FLAT OVAL DUCT SIZE. FIRST SIZE LISTED IS SIDE SHOWN IN PLANS.	——HWR——	HEATING WATER RETURN PIPING
24"x12"<	RECTANGULAR DUCT SIZE. FIRST SIZE LISTED IS SIDE SHOWN IN PLANS.	——————————————————————————————————————	NEW UNDERGROUND PIPING CONDENSATE DRAIN PIPING
<u> </u>	EXTERNALLY INSULATED DUCTWORK		GATE
	EXISTING DUCTWORK TO REMAIN	—	VALVE BALL VALVE
 	EXISTING DUCTWORK TO BE DEMOLISHED	——	BUTTERFLY
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK		VALVE SWING CHECK VALVE
t Ta			SPRING CHECK VALVE
	DUCT ELBOW WITH TURNING VANES		PRESSURE REDUCING VALVE
	RADIUSED DUCT ELBOW	¢¬	PRESSURE RELIEF VALVE. PIPE FULL SIZE DISCHARGE TO FLOOR DRAIN.
			CIRCUIT SETTER
	FLEXIBLE DUCT CONNECTION	_	TRIPLE DUTY VALVE
	MANUAL VOLUME BALANCING DAMPER		AUTOMATIC FLOW CONTROL VALVE
	TRANSITION		2-WAY CONTROL VALVE
	FLEX DUCT TAKE OFF WITH MVD	——————————————————————————————————————	3-WAY CONTROL VALVE
	BRANCH DUCT TAKEOFF WITH MVD	——Ф ^В ——	COMBINATION VENTURI AND BALL VALVE WITH MEMORY STOP FOR FLOW BALANCING AND SHUT OFF SERVICE
	CRANCH DUCT TAKEOFF WITH MVD	——————————————————————————————————————	
> 🛛 <	S RETURN OR SUPPLY DEVICE WITH MVD DIRECTLY BELOW MAIN TRUNK DUCT		MULTI-TURN BALANCING VALVE
	1	CC1	GLOBE VALVE
	TEE WITH TURNING VANES		THERMAL EXPANSION VALVE
<u> </u>	MOTORIZED DAMPER	——————————————————————————————————————	TRIPLE DUTY VALVE
) [M]		A	ANGLE
	FIRE DAMPER		VALVE SOLENOID
[F]		↓	VALVE BACKPRESSURE RELIEF OR SAFETY VALVE
	X-000 SHEET REFERENCED		BACKPRESSURE REGULATOR
$\left< \begin{array}{c} EF \\ 1 \end{array} \right>$	EQUIPMENT TAG		(SELF-CONTAINED)
$\langle 1 \rangle$	SHEET NOTE		BACKPRESSURE REGULATOR (EXTERNAL PRESSURE) FLEXIBLE PIPE CONNECTOR
T ₁	THERMOSTAT MOUNTED AT 54" AFF. ('1' INDICATES ATU CONTROLLED) SMOKE DETECTOR (PROVIDED BY	P/T	COMBINATION PRESSURE AND TEMPERATURE TEST PLUG WITH EXTENDED NECK AND CAP
	DIVISION 26, INSTALLED BY DIVISION 23 AND WIRED BY DIVISION 26).	— K, +	STRAINER WITH BLOW DOWN GATE VALVE FL
	UNDER CUT DOOR 3/4"	Az,	OF STRAINER AND 3/4" HOSE END CONNECTION
	POINT OF CONNECTION TO EXISTING		
ES	EMERGENCY SHUTOFF	<u>Б</u>	MANUAL AIR VENT WITH 1/2" BALL VALVE. ROU



- 1. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS. 2. FIELD VERIEVALL DIMENSIONS, SIZES, AND CONNECTION LOCATIONS BEFORE ANY DUCTWORK FABRICATION OR PIPE CUTTING IS
- COMMENCED. 3. PROVIDE ANY OFFSETS, TRANSITIONS, AND OTHER MINOR ADJUSTMENTS AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM
- INSTALLATION. 4. COORDINATE FLOOR DRAIN LOCATIONS IN MECHANICAL ROOMS WITH ANY EQUIPMENT LOCATED IN THE MECHANICAL ROOM. ROUTE CONDENSATE DRAIN PIPING OUT OF WALKWAY PATHS. CONDENSATE DRAIN PIPING SHALL BE COPPER TYPE L WITH A MIN. OF 1" FLEXIBLE

ELASTOMERIC CELLULAR INSULATION AND VAPOR BARRIER. 5. VERIFY MECHANICAL EQUIPMENT LOCATIONS AND PROVIDE ADEQUATE MAINTENANCE CLEARANCE AROUND EACH PIECE OF EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE CLEARANCE IN FRONT OF ELECTRICAL PANELS AND OTHER ELECTRICAL EQUIPMENT PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS. COORDINATE WITH OTHER TRADES.

6. HVAC REGISTERS, GRILLES, DIFFUSERS, PIPING, ETC. ARE SHOWN IN APPROXIMATE LOCATIONS. ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD, FULLY COORDINATED AND IN COMPLIANCE WITH CONTRACT DOCUMENTS. IN NO INSTANCE SHALL THE LOCATION VIOLATE STANDARDS, CODES, GOOD HVAC PRINCIPLES, AND THE INTENT OF THE HVAC DESIGN. CONSULT ENGINEER PRIOR TO RELOCATION MECHANICAL DRAWINGS, IN SOME RESPECTS, ARE DIAGRAMMATIC. COORDINATION, LAYOUT OF SECTIONS, OR FIELD MEASUREMENTS MAY BE REQUIRED PRIOR TO FABRICATION OF DUCTWORK OR PIPING. MODIFY SIZES, AS DIRECTED BY ENGINEER, FOR FIT. ARRANGE ALL DUCTWORK AND PIPING IN A NEAT AND ORDERLY MANNER. COORDINATE WITH OTHER TRADES.

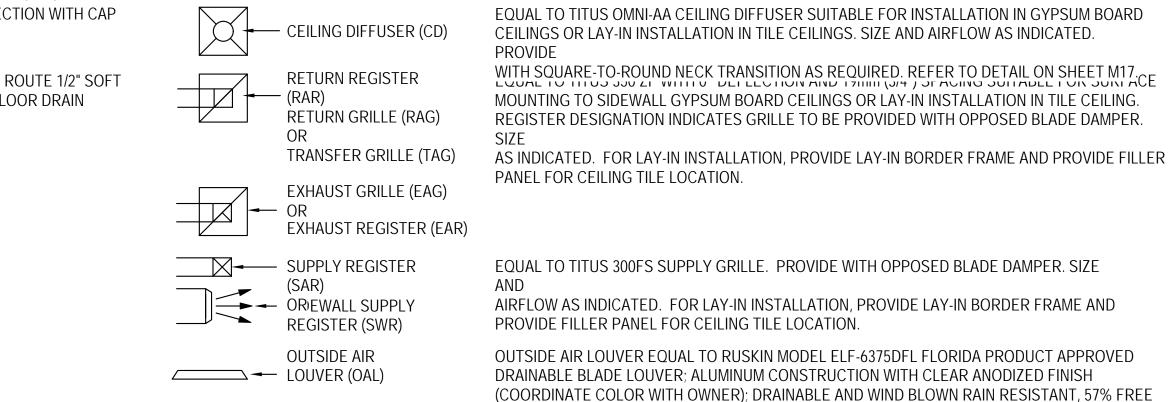
7. MECHANICAL CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS OF BUILDING WITHOUT PRIOR CONSENT OF ARCHITECT AND

- STRUCTURAL ENGINEER.
- 8. PROVIDE WATER PROOF SEALING OF PIPE AND DUCT PENETRATIONS OF EXTERIOR WALLS, FLOORS, AND/OR ROOF.
- ALL PIPING SYSTEM SHALL BE FLUSHED UNTIL CLEAN BEFORE EQUIPMENT CONNECTION. 10. PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS ARE TO BE FIRE SEALED SO AS TO MAINTAIN FLOOR OR WALL INTEGRITY IN THE EVENT OF A FIRE. ALL PENETRATIONS OF FIREWALLS, CEILINGS, FLOORS, ETC. FOR PIPING SHALL BE UL LISTED FIRESTOPS AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL OBTAIN MANUFACTURER'S SHOP DRAWINGS FOR ALL JOBSITE PENETRATIONS. 11. SUPPLY AIR DUCTWORK UPSTREAM OF AIR TERMINAL TO BE SINGLE-WALLED MEDIUM PRESSURE ROUND OR FLAT OVAL. PROVIDE SMACNA
- STATIC PRESSURE CLASS AS REQUIRED FOR SCHEDULE EXTERNAL STATIC PRESSURE, SEAL CLASS A, INTERNALLY INSULATED, DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. PROVIDE FIRST 25 FEET OF SUPPLY DUCTWORK IMMEDIATELY DOWNSTREAM OF AIR HANDLING UNIT WITH PERFORATED INNER LINER FOR SOUND CONTROL
- 12. SUPPLY AIR DUCTWORK DOWNSTREAM OF AIR TERMINAL UNITS (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) TO BE SINGLE WALL LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" THICK FIBERGLASS DUCT WRAP. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- 13. RETURN AIR DUCTWORK TO BE SINGLE WALL LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. PROVIDE 2" THICK EXTERNAL FIBERGLASS WRAP
- 14. OUTSIDE AIR INTAKE DUCTWORK TO BE SINGLE WALL LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" THICK FIBERGLASS WRAP. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. 15. EXHAUST AIR DUCTWORK TO BE LOW PRESSURE SINGLE WALL RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A.
- 16. FABRICATE KITCHEN EXHAUST DUCTS AND SUPPORTS USED FOR SMOKE AND VAPOR REMOVAL FROM COOKING EQUIPMENT OF 18 GA. STAINLESS STEEL. FOR DUCT CONSTRUCTION, COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS", AND NFPA 96 "REMOVAL OF SMOKE AND GREASE-LADEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT". CONTINUOUSLY WELD ALL SEAMS AND JOINTS TO BE GREASE TIGHT
- 17. FABRICATE DISHWASHER EXHAUST DUCTS AND SUPPORTS USED FOR SMOKE AND VAPOR REMOVAL FROM COOKING EQUIPMENT OF WELDED 16-GAUGE MINIMUM ALUMINUM WHERE CONCEALED AND OF 18-GAUGE MINIMUM STAINLESS STEEL WHERE EXPOSED.
- 18. ALL ROUND FLEXIBLE DUCT SHALL BE FACTORY PRE-INSULATED WITH CORRUGATED ALUMINUM LINER. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 6'. WHERE LENGTH REQUIRED EXCEEDS 6', INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
- 19. PROVIDE SPIN-IN WITH EXTENDED SPIN-IN DAMPER OPERATOR HANDLE FOR ALL DIFFUSER RUNOUTS. 20. COMPLY ALL DUCTWORK CONSTRUCTION, DUCT HANGERS AND SUPPORTS WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE" FOR METAL THICKNESS', REINFORCING TYPES AND INTERVALS, TIE-ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS. SUPPORT HORIZONTAL DUCTS WITHIN 24" OF EACH ELBOW AND WITHIN 48" OF EACH BRANCH. SEE DUCT HANGER DETAILS.
- 21. ALL DUCT ELBOWS SHALL BE LONG RADIUS TYPE OR, WHERE INDICATED, SQUARE ELBOW WITH TURNING VANES. PROVIDE TURNING VANES IN ALL SQUARE ELBOWS IN TRUNK DUCTWORK AND DIFFUSER CONNECTIONS. 22. TRANSFER DUCTS TO BE INTERNALLY INSULATED WITH 1" THICK ACOUSTICAL DUCT LINER. DUCT SIZES INDICATED ARE INSIDE CLEAR
- DIMENSIONS. 23. VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT INLETS AND OUTLETS. TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY
- INSULATE ALL TRANSITIONS AT EQUIPMENT CONNECTIONS. 24. PROVIDE FLEXIBLE DUCT, PIPE CONNECTIONS, AND VIBRATION ISOLATORS FOR INTERNALLY ISOLATED UNITS. PROVIDE FLEXIBLE DUCT
- CONNECTORS AT ALL HVAC EQUIPMENT CONNECTIONS COMPLYING WITH UL-181, NFPA 90A, AND NFPA 90B.
- 25. DO NOT MOUNT DISCONNECT SWITCHES ON HVAC EQUIPMENT EXCEPT AS RECOMMENDED BY MANUFACTURER. 26. MOUNT ALL DUCTWORK AS HIGH AS POSSIBLE, BETWEEN FRAMING IF NECESSARY, AVOID ROUTING DUCTWORK OVER LIGHTS WHEREVER POSSIBLE. WHERE DUCTWORK MUST RUN OVER LIGHTS MAINTAIN MINIMUM 4" CLEARANCE BETWEEN DUCT INSULATION AND TOP OF LIGHTS COORDINATE WITH STRUCTURAL.
- 27. ABOVE CEILING MECHANICAL EQUIPMENT TO BE INSTALLED NO MORE THAN 2'-6" ABOVE SUSPENDED CEILINGS. AVOID INSTALLATION ABOVE LIGHTS AND MAINTAIN ACCESS TO AND CLEARANCE AROUND MECHANICAL EQUIPMENT AS REQUIRED FOR MAINTENANCE OF UNIT AND CONTROLS. IF A MECHANICAL EQUIPMENT MUST BE INSTALLED ABOVE A LIGHT, MAINTAIN MINIMUM 6" CLEAR BETWEEN BOTTOM OF UNIT AND TOP OF LIGHT.
- 28. PROVIDE ALL EQUIPMENT, VALVES, ETC. WITH MARKERS AS SPECIFIED FOR IDENTIFICATION PURPOSES. SEE SPECIFICATION
- 29. COMPLY WITH MSS SP-58 (PIPE HANGERS AND SUPPORTS-MATERIALS, DESIGN, AND MANUFACTURE), MSS SP-69 (PIPE HANGERS AND SUPPORTS-SELECTION AND APPLICATION), MSS SP-89 (PIPE HANGERS AND SUPPORTS-FABRICATION AND INSTALLATION) FOR PIPE HANGER SELECTIONS AND APPLICATIONS.
- 30. ENGAGE A FACTORY AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM START-UP SERVICES AND TO TRAIN OWNER'S MAINTENANCE. PERSONNEL TO ADJUST. OPERATE AND MAINTAIN EQUIPMENT. SEE SPECIFICATION.
- 31. PROVIDE OPERATION AND MAINTENANCE MANUALS TO OWNER FOR ALL INSTALLED EQUIPMENT. SEE SPECIFICATION. 32. THERMOSTATS SHALL BE GENERALLY LOCATED AS SHOWN. THE EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL MOUNTED WORK.
- 33. SEE FIRE ALARM DRAWINGS FOR DUCT SMOKE DETECTORS AND OTHER EQUIPMENT RELATED TO THE BUILDING FIRE ALARM SYSTEM. 34. WORK SHALL COMPLY WITH THE FOLLOWING AGENCIES
- 35. 2012 INTERNATIONAL BUILDING CODE
- 36. 2012 INTERNATIONAL MECHANICAL CODE
- DED

37. 2012 INTERNATIONAL PLUMBING CODE 38. 2012 INTERNATIONAL FUEL GAS CODE

39 NATIONAL FIRE PROTECTION AGENCY (NEPA VE FULL SIZE ECTION WITH CAP

40. AMERICAN SOCIETY OF THEATHY AND SEER REPARCE GUSTS ARE GRADE TO A CONSTRUCT OF THEATHY AND SEER REPARCE GUSTS ARE GRADE TO A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE GUSTS A CONSTRUCT OF THE ATTACK AND SEER REPARCE AN



AREA, PROVIDED WITH INSECT SCREEN. LOUVER SIZE AS INDICATED (FACE AREA).

ABBREVIATIONS

SCHMIDT
CONSULTING GROUP, INC.

MECHANICAL ELECTRICAL STRUCTURAL COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 3250 P: 850-438-0050 F: 850-432-8631 WILLIAM JOSEPH JONES P.E. FLORIDA LICENSE NUMBER 58080

SCG PROJECT: 2015-138

@ AAV ACC ACD AD AFF AFMS AHRI AHU AS ASHRAE	AT AUTOMATIC AIR VENT AUTOMATIC CONTROL CHILLER AUTOMATIC CONTROL DAMPER ACCESS DOOR ABOVE FINISHED FLOOR AIRFLOW MEASURING STATION AIR-CONDITIONING, HEATING AND REFRIGERATION INSTITUTE AIR HANDLING UNIT AIR SEPARATOR AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
BD	BELT DRIVE
CD	CEILING DIFFUSER
CF	CHEMICAL FEEDER
CFM	CUBIC FEET PER MINUTE
CONT.	CONTINUOUS
COP	COEFFICIENT OF PERFORMANCE
CT	COOLING TOWER
DD	DIRECT DRIVE
DDC	DIRECT DIGITAL CONTROL
DPS	DIFFERENTIAL PRESSURE SENSOR
DWGS.	DRAWINGS
(E)	EXISTING
EA	EXHAUST AIR
EAL	EXHAUST AIR LOUVER
EAR	EXHAUST AIR REGISTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EH	ELECTRIC HEATER
EL	ELEVATION
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
FD	FIRE DAMPER
FPM	FEET PER MINUTE
GPM	GALLONS PER MINUTE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
IPLV	INTEGRATED PART LOAD VALUE
KH	KITCHEN HOOD
MAX.	MAXIMUM
MIN.	MINIMUM
MVD	MANUAL VOLUME DAMPER
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
NPLV	NON-STANDARD PART LOAD VALUE
OA	OUTSIDE AIR
OAL	OUTSIDE AIR LOUVER
OAU	OUTSIDE AIR UNIT
O.C.	ON CENTER
PRV	PRESSURE REDUCING VALVE
P/T	PRESSURE/TEMPERATURE
RA	RETURN AIR
RAG	RETURN AIR GRILLE
SA SD SEER SF SMACNA SPT SWR	SUPPLY AIR SMOKE DETECTOR SEASONAL ENERGY EFFICIENCY RATIO SUPPLY FAN SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION STATIC PRESSURE TRANSMITTER SIDEWALL REGISTER
TAG	TRANSFER AIR GRILLE
T'STAT	THERMOSTAT
TT	TEMPERATURE TRANSMITTER
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
W/	WITH
W.G.	WATER GAUGE

APROVED ABAL CHILD DEVELOPMENT CENTER ADAL CHILD DEVELOPMENT CENTER BLDG. & REPAIR CHILD DEVELOPMENT BLDG. & REPAIR CHILD DEVELOPMENT CENTER BLDG. 90353 APROVED APROVE	REV # DATE DESCRIPTION		
A A BR FORCE SPECIAL BL OPERATIONS COMMAND 1 SPECIAL OPERATIONS ENGINEER SQUADRON HURLBURT FIELD, FLORIDA	APPROVED	CHIEF ENGINEER APPROVED	CIVIL ENGINEER
	AL CHILD DEVELOPMENT (3LDG. & REPAIR CHILD DEVEL CENTER BLDG. 90353	MECHANICAL LEGEND
DATE:	AD	ш	

									AIR	COOLED C	HILLER S	CHEDULE										
								EV	APORATOR D	ATA			CONDENS	SER DATA			COMPRESSOR DA	ATA		ELECTRI	CAL DATA	
	MIN. CAPACITY		REFRIG.					ENT. WATER TEMP.	LVG. WATER TEMP.	MAX. WATER PD	Fouling	DB AMB. TEMP. DB	DB LOW AMB. TEMP. DB	CONDEI	NSER FANS		CAPACITY I MIN.	REDUCTION APPROX. %				
MARK	(TONS)	CHILLER TYPE	TYPE	LIQUID TYPE	MIN. EER	IPLV	GPM	(DEG F)	DEG F)	(FT. WC)	FACTOR	(DEG F)	(DEG F)	QTY	TOTAL FLA	MIN. QTY.	UNLOADING	RANGE	MCA	VOLTS	PHASE	Hz
(N)ACC-2	36.7	SCROLL	HFC-134a	WATER	10.0	13.6	73.4	56	44	10	0.00025	95	0	4	27.0	4	5.5	25-100	214.0	208	3	60

1. EER - ENERGY EFFICIENCY RATIO. POWER INPUTS SHALL INCLUDE ALL COMPRESSORS, CONDENSER FANS, AND CONTROL POWER AT FULL LOAD CONDITIONS.

2. IPLV - INTEGRATED PART LOAD VALUE OF EER'S AT ARI CONDITIONS.

3. PROVIDE CHILLER WITH LOW AMBIENT CONTROLS AND FLANGE KIT.

4. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND POWER SUPPLY MONITOR.

5. PROVIDE COMPLETE COAT - FACTORY DIP AND BAKE COATING FOR CONDENSER COIL.

6. PROVIDE VANDAL-PROOF LOUVERS AROUND BOTTOM OF CHILLER PERIMETER OPENING TO PROTECT PIPING, INSULATION, ETC.

7. PROVIDE WITH SINGLE POINT POWER CONNECTION WITH CONVENIENCE OUTLET. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.

8. PROVIDE LOW SOUND PACKAGE; LOW NOISE FANS, COMPRESSOR SOUND ATTENUATION PACKAGE

													VA	RIABLE VOI	LUME AI	r handl	_ING UNI	T SCHEI	DULE															
						FAN D	ATA								Р	REHEAT COI	IL HOT WATE	R DATA								CH	HILLED WATE	R COIL DAT	A					
									FAN MOTO	OR					AIR	SIDE			WATER SIDE	E							AIR	SIDE			,	WATER SIDE	-	
		MAX. AIRFLOW	MIN. AIRFLOW	HEATING AIRFLOW	OA AIRFLOW	ESP	NO. OF	FAN POWER	TOTAL FAN POWER				MAXIMUM FACE VELOCITY	PREHEAT TOTAL CAPACITY	EAT	LAT	EWT	LWT	FLOW RATE	VALVE	MAX. WATER PD	MAXIMUM FACE VELOCITY	COOLING TOTAL CAPACITY	COOLING SENSIBLE CAPACITY	COOLING LATENT CAPACITY	EAT DB	EAT WB	LAT DB	LAT WB	EWT	LWT	FLOW RATE	VALVE	MAX. WATER PD
MARK	TYPE	(CFM)	(CFM)	(CFM)	(CFM)	IN W.G.	FAN(S)	HP	HP	VOLTS	PHASE	Hz	(FPM)	(MBH)	(DEG. F)	(DEG. F)	(DEG. F)	(DEG. F)	(GPM)	TYPE	(FT)	(FPM)	(MBH)	(MBH)	(MBH)	(DEG. F)	(DEG. F)	(DEG. F)	(DEG. F)	(DEG. F)	(DEG. F)	(GPM)	TYPE	(FT)
AHU-1	HDT	7,100	2,792	3,270	1,800	1.5	2	4	8	208	3	60	500	80.9	47	70	180	160	8.1	3-WAY	5	500	336.4	188.4	148.0	79.6	67.9	55.0	54.0	44	55	61.2	3-WAY	10
AHU-2	HDT	10,725	3,235	4,940	2,495	2.5	2	6.5	13	208	3	60	500	113.1	49	70	180	160	11.3	3-WAY	5	500	440.2	280.2	160.0	79.2	67.6	55.0	54.0	44	56	73.4	3-WAY	10
																													,		· · ·			

<u>NOTES:</u>

NOTES:

1. MANUFACTURER SHALL ALLOW A MINIMUM OF 0.5" EXTRA STATIC FOR DIRTY INITIAL FILTERS. EXTERNAL STATIC DOES NOT INCLUDE PRESSURE DROP THROUGH CASING COILS, INITIAL FILTERS, AND FILTER HOUSINGS. EXTERNAL PRESSURE DROP DOES INCLUDE PRESSURE DROP THROUGH PRE-FILTER, FINAL FILTER, AND HOT WATER COIL LOCATED DOWNSTREAM OF AHU.

2. PROVIDE DIRECT DRIVE FAN/MOTOR COMBINATIONS.

3. ADJUST LOCATION OF UNITS IN MECHANICAL ROOMS AS REQUIRED FOR SERVICE AS RECOMMENDED BY MANUFACTURER. COORDINATE ACCESS DOOR LOCATION FOR UNIT ACCESS.

4. PIPE ALL CONDENSATE FROM UNITS TO DRAIN WITH TRAP. PROVIDE PADS AND BASE RAILS OF SUFFICIENT HEIGHT TO ENABLE CORRECT TRAP DEPTH. TRAP CONDENSATE PIPING AT UNIT AND ROUTE TO POINT INDICATED.

5. NEW UNITS MAY REQUIRE DISASSEMBLY AND REASSEMBLY IN THE MECHANICAL ROOM. CONTRACTOR SHALL COORDINATE WITH SPECIFIC EQUIPMENT PROVIDER AND INCLUDE REQUIREMENTS IN BID ACCORDINGLY.

6. PROVIDE MERV 8 PRE FILTERS, AND MERV 13 FINAL FILTERS. PROVIDE DIFFERENTIAL PRESSURE GAUGE FOR FILTER.

7. INTERLOCK AHU'S TO ENABLE FAN SHUTDOWN UPON AN INDICATION OF ALARM CONDITION BY THE BLDG. FIRE ALARM SYSTEM. SEE CONTROLS SEQUENCE OF OPERATION. 8. PROVIDE UNIT WITH MULTI FAN ARRAY WITH INDIVIDUAL BACKDRAFT DAMPER ON EACH CELL

					AIF	RTERMINAL	UNIT SCH	EDULE (AHI	J 2)					
							HEATING COIL	REQUIREMENTS					ELECTRICAL	
MARK	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	ROUND INLET SIZE	HEATING AIRFLOW (CFM)	TOTAL HEATING LOAD (MBH)	EAT (DEG F)	LAT (DEG F)	EWT (DEG F)	LWT (DEG F)	HW FLOW RATE (GPM)	VALVE TYPE	VOLTS	PHASE	Hz
(E)ATU A	550	165	(E)	220	3.3	70.0	84.0	180	160	0.3	3-WAY		(E)	
(E)ATU B	500	150	(E)	200	3.0	70.0	84.0	180	160	0.3	3-WAY		(E)	
(E)ATU C	550	165	(E)	220	3.3	70.0	84.0	180	160	0.3	3-WAY		(E)	
(E)ATU D	600	180	(E)	240	3.7	70.0	84.0	180	160	0.4	3-WAY		(E)	
(E)ATU E	800	240	(E)	240	3.7	70.0	84.0	180	160	0.4	3-WAY		(E)	
(E)ATU F	800	240	(E)	320	4.9	70.0	84.0	180	160	0.5	3-WAY		(E)	
(E)ATU G	450	135	(E)	170	2.6	70.0	84.0	180	160	0.3	3-WAY		(E)	
(E)ATU H	820	250	(E)	490	7.4	70.0	84.0	180	160	0.7	3-WAY		(E)	
(N)ATU I	530	160	8"	220	3.3	70.0	84.0	180	160	0.3	3-WAY	120	1	60
(N)ATU J	250	75	6"	100	1.5	70.0	84.0	180	160	0.2	3-WAY	120	1	60
(N)ATU K1	1,190	360	10"	380	5.8	70.0	84.0	180	160	0.6	3-WAY	120	1	60
(N)ATU K2	1,190	360	10"	425	6.5	70.0	84.0	180	160	0.6	3-WAY	120	1	60
(N)ATU L	970	295	10"	570	8.7	70.0	84.0	180	160	0.9	3-WAY	120	1	60
(N)ATU M	625	190	8"	575	8.7	70.0	84.0	180	160	0.9	3-WAY	120	1	60
(N)ATU N	900	270	8"	570	8.7	70.0	84.0	180	160	0.9	3-WAY	120	1	60

NOTES:

1. ALL AIR TERMINAL UNITS SHALL BE PROVIDED WITH MINIMUM 1/2" MATT-FACED INSULATION.

2. ROUND INLET DUCT CONNECTION SHALL NOT BE SMALLER THAN SIZE INDICATED.

3. PROVIDE ALL AIR TERMINAL UNITS WITH FACTORY MOUNTED DISCONNECTS AS PER NEC.

4. PROVIDE ALL AIR TERMINAL UNITS WITH CONTROL TRANSFORMER FOR TERMINAL CONTROL.

5. MAXIMUM INTERNAL RESISTANCE OF AIR TERMINAL UNIT (INLET TO DISCHARGE STATIC PRESSURE DIFFERENTIAL) WITH PRIMARY AIR DAMPER

FULL OPEN AT MAXIMUM PRIMARY AIR FLOW INDICATED SHALL BE MINIMIZED, BUT AT NO CONDITION GREATER THAN 0.5 INCHES H2O.

6. ACOUSTIC PERFORMANCE OF AIR TERMINAL UNITS SHALL BE BASED UPON TESTS CONDUCTED IN ACCORDANCE WITH ARI STANDARD 880.

PROVIDE EVAPORATOR WITH FREEZE PROTECTION. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.

10. PROVIDE FACTORY WEATHERPROOF CONTROL PANEL WITH MICROPROCESSOR BASED OPERATING AND SAFETY CONTROLS,

STARTERS AND CONTROL VOLTAGE TRANSFORMER.

11. BASIS OF DESIGN IS TRANE.

12. PROVIDE WITH GATEWAY INTERFACE CARD FOR INTEGRATION INTO DDC CONTROL SYSTEM.

13. USE DIRECT BURIAL CAT 5 CABLE FOR COMM WIRING WITH SURGE PROTECTION AT ENC.

14. PROVIDE WITH PACKAGED PUMP SYSTEM, MINIMUM 140 GAL. BUFFER TANK WITH AUTOMATIC AIR VENT, EXPANSION TANK WITH MIN. 5 GALLON ACCEPTANCE, PUMP PACKAGE SHALL INCLUDE FLOW SWITCH, STRAINERS, AND FACTORY POWER AND CONTROL WIRING AS NECESSARY.

9. HDT - HORIZONTAL DRAW THRU

- 11. PROVIDE MINIMUM 8-ROW COOLING COILS AND 1-ROW HEATING COILS.
- 12. CONTROL VALVE CV TO BE CALCULATED AT THE SCHEDULED WATER FLOW WITH A VALVE AUTHORITY OF 0.5 BY CONTROLS SUB-CONTRACTOR.
- 13. PROVIDE SINGLE POINT POWER CONNECTION WITH VFD. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
- 14. VAV VARIABLE AIR VOLUME UNIT (MULTIPLE ZONES) PROVIDE WITH VFD WITH INTEGRAL BYPASS AND DISCONNECT. ALL VFD'S ARE TO BE PROVIDED BY DIV. 23 IN ACCORDANCE WITH THE SPECIFICATIONS OF DIV. 26.
- 15. BASIS OF DESIGN IS TEMTROL.
- 17. PROVIDE UNIT WITH WINDOW IN ACCESS DOOR TO VERIFY FUNCTIONALITY OF UV LIGHT WITHOUT OPENING DOOR.
- 18 PROVIDE UNIT WITH BASE RAILS OF SUFFICIENT HEIGHT TO ALLOW SPACE FOR CONDENSATE TRAP.

				C	CONDENSIN	IG BOILER	SCHEDUL	E					
MARK			BOILER I	RATINGS				HYDRON	JIC DATA		ELE	CTRICAL D	DATA
	MIN. INPUT (MBH)	MIN, GROSS OUTPUT (MBH)	MIN. EFF. (%)	DESIGN PRESSURE (PSIG)	FIRING RATE (CFH)	BURNER	GPM	EWT DEG. F	LWT DEG. F	Max. Press. Drop (Ft. W.C.)	VOLTS	PHASE	Hz
B-1	390.0	358.8	92%	125	390	FAC	35.9	160	180	15	120	1	60

NOTES:

1. MIN. EFF. TO BE THE STEADY STATE THERMAL EFF. AT HIGH FIRE RATE.

2. NATURAL GAS TRAIN TO BE CSD-1 BY BOILER MANUFACTURER.

3. WATER TUBE DESIGN

4. MOUNT BOILER CONTROL PANEL TO SIDE OF BOILER (NOT ON BURNER)

5. INTERLOCK BP-1 (BOILER PUMP) WITH BOILER INTERNAL CONTROLS.

6. PROVIDE BMS GATEWAY INTERFACE AND CONNECT TO DDC SYSTEM.

7. PROVIDE WITH MODULATING BURNER WITH A MIN. 5:1 TURNDOWN.

					PUI	MP SCHED	JLE				
				PERFORM	ANCE DATA			ELECTRICA	AL DATA		
			FLOW	HEAD	MIN. EFF.	MAX. SPEED	MIN. Power				
MARK	SERVICE	TYPE	(GPM)	(FT. W.C)	(%)	(RPM)	HP	VOLTS	PHASE	Hz	REMARKS
CHWP-1	CHILLED	CS	73.4	35.0	60%	1,760	1.5	208	3	60	PROVIDE WITH MOTOR STARTER
HWP-1	HOT WATER	CS	35.9	40.0	60%	1,760	1.0	208	3	60	PROVIDE WITH MOTOR STARTER
BP-1	BOILER #1	IL		SEE N	IOTE 4		1.0	115	1	60	INTERLOCK WITH BOILER

NOTES:

1. CS - CLOSED COUPLED END SUCTION; IL - INLINE

2. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.

3. BASIS OF DESIGN IS TACO.

4. BOILER PUMP TO BE SIZED PER MANUFACTURER.

5. FOR CHWP-1 AND HWP-1 REFER TO BASE MOUNTED PUMP DETAIL ON SHEET M18.



MECHANICAL ELECTRICAL STRUCTURAL COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631

WILLIAM JOSEPH JONES P.E. FLORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138

		DESIG	IN CONDITION	NS		
	OUT	SIDE	INSIDE (O	CCUPIED)	INSIDE (UN	OCCUPIED)
	DB (DEG. F)	WB (DEG. F)	DB (DEG. F)	RH	DB (DEG. F)	RH
SUMMER	93	81	75	50%	75	50%
WINTER	30	-	70	-	70	-

<u>NOTES:</u>

1. INSIDE SUMMER DESIGN TEMPERATURE IS +0/-2 DEG. F.

2. INSIDE SUMMER DESIGN RELATIVE HUMIDITY IS +10%.

3. INSIDE WINTER DESIGN TEMPERATURE IS +2/-0 DEG. F.

4. HOURS OF OPERATION ARE 7:00 TO 17:30.

10. PROVIDE WITH UVC (ULTRA VIOLET C-BAND) DISINFECTION SYSTEM ON DISCHARGE SIDE OF CHILLED WATER COIL. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL. SEE NOTES ON SHEET M2.

16. PROVIDE AIR HANDLING UNITS WITH MOTORIZED OUTSIDE AIR AND RETURN AIR DAMPERS. COORDINATE WITH CONTROLS CONTRACTOR.

8. PROVIDE BOILER WITH CONDENSATE NEUTRALIZATION KIT.

9. ROUTE CONDENSATE TO THE NEAREST FLOOR DRAIN.

10. FAC - FAN ASSISTED COMBUSTION

11. PROVIDE OUTDOOR RESET CONTROL WITH OUTDOOR AIR SENSOR.

12. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.

13. SEE SEQUENCE OF OPERATION ON SHEET M21.

14. BASIS OF DESIGN IS RAYPAK.

AIR FORCE SPECIAL ADAL CHILD DEVELOPMENT CENTER ABAL CHILD DEVELOPMENT CENTER APPROVE OPERATIONS COMMAND BLDG. & REPAIR CHILD DEVELOPMENT I SPECIAL OPERATIONS ENGINEER SQUADRON CENTER BLDG. 90353 I SPECIAL OPERATIONS ENGINEER SQUADRON MECHANICAL SCHEDULES	REV # DATE DESCRIPTION APP'D			
BLD	APPROVED	CHIEF ENGINEER	APPROVED	CIVIL ENGINEER
AR FORCE SPECIAL OPERATIONS COMMAND 1 SPECIAL OPERATIONS ENGINEER SQUADRON HURLBURT FIELD, FLORIDA		BLUG. & KEPAIK CHILU DEVELUP	CENTER BLDG. 90353	
16 SEPT 2016	DAT			



FTEV 12-1164

ULTRAVIOLET DISINFECTION SYSTEM NOTES

UV-C FIXTURING - FIXTURING SHALL CONSIST OF A POWER SUPPLY, POWER SUPPLY HOUSING, "PLENUM RATED" WIRING LOOM, LAMP PLUG, LAMP-PLUG PROTECTOR AND ENCAPSULATED LAMP WITH ADJUSTABLE LAMP RETAINING DEVICE. POWER SUPPLY - POWER SUPPLY SHALL BE CSA AND UL LISTED AS A VARIABLE INPUT TYPE (120-277 VAC +/- 10%), 50-60 HZ WITH A PROGRAMMED RAPID START. SUPPLY SHALL BE DESIGNED AS HIGH POWER FACTOR, CLASS P, SOUND RATED "A", TYPE 1 OUTDOOR AND WITH INHERENT THERMAL PROTECTION AND NO PCB'S. SUPPLY SHALL BE CAPABLE OF PRODUCING THE SPECIFIED OUTPUT AND ORGANISM DESTRUCTION AT NOT MORE THAN 15 WATTS OF POWER CONSUMPTION FOR EACH SQUARE FOOT OF TREATED, CROSS SECTIONAL AREA. THE POWER SUPPLY SHALL BE CAPABLE OF PROPERLY POWERING 1 145W UV-C LAMP OR 1- OR 2- 75W UVC LAMPS WHILE ENSURING AT LEAST 9000 HOURS OF LAMP LIFE, AND WITH GREATER THAN 85% OF ITS INITIAL OUTPUT, AT THE LAMPS "END OF LAMP LIFE" PHASE. POWER SUPPLY SHALL BE PROTECTED AGAINST "END OF LAMP LIFE" CONDITIONS, WARRANTED FOR 5 YEARS, AND BE LABELED FOR FIELD WIRING.

POWER SUPPLY HOUSING - SHALL BE CONSTRUCTED OF 20GA GALVANIZED, POWDER COATED STEEL AND DESIGNED TO FACILITATE NEC REGULATED POWER SUPPLY INSTALLATION OUTSIDE PLENUMS. EACH HOUSING SHALL BE CAPABLE OF PROPERLY HOLDING, GROUNDING AND WIRING EITHER FOUR OR EIGHT BALLASTS WITHIN TO PROTECT AGAINST ELECTRICAL SHOCK AND MOISTURE, AS WELL AS RF AND EMI LEAKS.

PLENUM RATED WIRING LOOM - SHALL BE OF SUFFICIENT LENGTH TO FACILITATE LAMP CONNECTION TO A REMOTELY LOCATED POWER SUPPLY. THE LAMP AND LOOM SHALL BE CAPABLE OF BEING MOUNTED ANYWHERE IN THE SYSTEM AND/OR AS SHOWN ON THE DRAWINGS. THE LOOM SHALL MEET UL SUBJECT 13 AND UL 1581, AND ARTICLE 725 OF THE NEC. THE LOOM JACKET SHALL BE CONSTRUCTION OF UV-C RESISTANT MATERIALS AND SHALL HAVE AN INTERNAL ALUMINUM/MYLAR SHIELD.

LAMP PLUG - SHALL BE OF THE 4-PIN TYPE CAPABLE OF ACCOMMODATING A SINGLE-ENDED HO LAMP.

LAMP-PLUG PROTECTOR - SHALL BE OF UV RESISTANT MATERIALS AND DESIGNED TO SHRINK 3-1 OVER THE LAMP PLUG AND WIRING LOOM FOR PROTECTION AGAINST ELECTRICAL SHOCK, MOISTURE AND SEPARATION.

EACH LAMP PLUG AND PLENUM RATED WIRING LOOM CONNECTION SHALL HAVE A UVC RESISTANT, ELASTIC PLUGLUV TO ENSURE A WATER TIGHT CONNECTION AND SEAL BETWEEN ANY SINGLE-ENDED LAMP AND WIRING LOOM LAMP PLUG TO PREVENT ELECTRICAL SHOCK, CONNECTION SHORTS AND/OR LAMP OR BALLAST FAILURE FROM LAMP PIN OXIDATION OR PIN ARCING.

LAMP RETAINING DEVICE - MAY BE SINGLE OR DUAL TYPES, MAGNETICALLY OR PERMANENTLY AFFIXED WITHIN THE IRRADIATED CAVITY AND CONSTRUCTED OF UVC RESISTANT MATERIALS AND PROVIDE FOR MAXIMUM FLEXIBILITY IN QUICK LAMP POSITIONING, REMOVAL AND HOLDING POWER.

LAMPS - EACH LAMP SHALL CONTAIN LESS THAN 8 MILLIGRAMS OF MERCURY AND SHALL BE HERMETICALLY LAMINATED WITH A THIN LAYER OF UV-C TRANSMISSIBLE MATERIAL TO PROVIDE PROTECTION AGAINST LAMP BREAKAGE AND TO ENSURE LAMP CONTENTS FROM A BROKEN LAMP ARE CONTAINED. LAMP LIFE SHALL BE 9000 HOURS WITH NO MORE THAN A 15% OUTPUT LOSS AT THE END OF THE LAMPS LIFE. LAMPS SHALL BE CONSTRUCTED WITH UV-C PROOF MATERIAL BASES AND SHALL NOT PRODUCE OZONE.

IRRADIATION - FIXTURELESS LAMPS ARE TO BE INSTALLED IN SUFFICIENT QUANTITY AND IN SUCH A MANNER SO AS TO PROVIDE AN EQUAL DISTRIBUTION OF THE AVAILABLE UV-C ENERGY. WHEN INSTALLED, THE UV-C ENERGY PROVED SHALL BE OF THE LOWEST POSSIBLE REFLECTED AND SHADOWED LOSSES AND SHALL BE DISTRIBUTED IN A 360 DEGREE PATTERN WITHIN THE CAVITY TO PROVIDE THE HIGHEST UV-C ENERGY ABSORPTION BY MICROBIAL PRODUCTS IN THE AIR.

INTENSITY - THE MINIMAL UV-C ENERGY STRIKING A SURFACE SHALL BE SUFFICIENT TO CONTINUOUSLY DESTROY A MONO-LAYER OF MOLD AND/OR BACTERIA IN LESS THAN ONE HOUR WHILE OPERATING IN AIR TEMPERATURES OF 1-70°C.

INSTALLATION - THE BALLAST HOUSING SHALL BE CAPABLE OF INSTALLATION WITHIN THE AIR STREAM AND/OR WITHIN A POWER SUPPLY HOUSING. LAMPS SHALL BE MOUNTED TO IRRADIATE THE INTENDED SURFACE(S) AS WELL AS ALL OF THE AVAILABLE LINE OF SIGHT AIR STREAM THROUGH PROPER LAMP PLACEMENT AND INCIDENT ANGLE REFLECTION.

SAFETY - TO PROTECT PERSONNEL, ALL ACCESS PANELS AND DOORS TO ANY UV-C ASSEMBLY AND/OR WITHIN VIEW OF ANY UV-C ASSEMBLY SHALL INCLUDE MECHANICAL INTERLOCK SWITCH TO INSURE THAT ALL UV-C ASSEMBLIES WILL BE DE-ENERGIZED WHEN ANY OF THESE ACCESSES ARE OPENED. THIS SHALL BE IN ADDITION TO THE MANUAL DISCONNECT SWITCH MOUNTED OUTSIDE THE AIR HANDLING UNIT CASING.

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	_

			AIR SEP	ARATOR SC	HEDULE		
	MARK	SERVICE	FLOW RATE (GPM)	MAX. WATER PD (FT. W.C.)	Working Press. (PSI)	MIN. INLET SIZE (IN.)	MIN. OUTLET SIZE (IN.)
ŀ	AS-1	HW	35.9	3.0	125	2	2

<u>NOTES</u>

1. SEE DETAIL 1 ON SHEET M18.

2. BASIS OF DESIGN IS TACO.

						F	AN SCHEDULE	-				
					PI	ERFORMANCE DAT	A			ELECTRICAL DATA		
MARK	SERVING	TYPE	DRIVE	CFM	Hz	NOTES						
EF-1	KH-1	UB	BD	3,000	1.00	1725	24.0	1.5	208	3	60	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13
EF-2	DWH-1	UB	DD	615	1.00	1725	18.4	1/2	115	1	60	1, 2, 3, 4, 5, 6, 8, 10, 11, 12, 13, 14
EF-3	RESTROOMS	REF	DD	750	0.50	1725	9.4	1/4	115	1	60	1, 2, 3, 4, 5, 6, 10, 12, 13, 14
SF-1	KH-1	SF	BD	2,700	1.00	1725	15.6	1.0	208	3	60	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 14
NOTES	-		•		-		•					÷

1 CEF - CEILING EXHAUST FAN; ICF - INLINE CABINET FAN; SF - FILTERED KITCHEN SUPPLY FAN; UB - UPBLAST CENTRIFUGAL EXHAUST FAN; REF - ROOF MOUNTED CENTRIFUGAL EXHAUST FAN

2. DD - DIRECT DRIVE; BD - BELT DRIVE

3. PROVIDE FANS WITH SPEED CONTROLLER FOR AIR FLOW BALANCING. MOUNT CONTROLLER WITHIN FAN HOUSING.

4. PROVIDE FAN WITH AN INTEGRAL DISCONNECT.

5. PROVIDE WITH CURB AND GRAVITY BACKDRAFT DAMPER.

6. REFER TO FIRE ALARM DRAWINGS FOR FIRE ALARM SHUTDOWN RELAYS.

7. INTERLOCK WITH HOOD EXHAUST FAN.

8. OPERATE WITH HOOD CONTROL SWITCH.

9. SEE DETAIL 2 ON SHEET M16.

10. SEE ELECTRICAL FOR COMBINATION MOTOR STARTER/DISCONNECT.

11. COORDINATE FINAL FAN REQUIREMENTS WITH FURNISHED HOOD.

12. REFER TO DETAIL 3 ON SHEET M16.

13. FAN AND CURB TO BE MIAMI DADE CERTIFIED FOR HIGH WIND.

14. PROVIDE WITH LOW LEAKAGE MOTORIZED DAMPERS.

									DX COO	ING ON	ILY DUC	ILESS S	SPLIT UN	II SCHEDI	JLE									
	SEE NO	TE 1						INDOOR UNIT										OUTDOO	R UNIT					
						COOLING	6 PERFORMA	NCE								AMBIENT TEMP								
	ARI COOLING			E	AT	L	AT	TOTAL	SENSIBLE						SUM	MER	WINTER	COMPR	ESSOR	CONDEN	ISER FAN	ELF	ECTRICAL DA	ATA
	CAPACITY	MIN.	AIRFLOW	DB	WB	DB	WB	CAPACITY	CAPACITY		ELECTRIC	CAL DATA			DB	WB	DB							
MARK	(MBH)	SEER	(CFM)	(DEG F)	(DEG F)	(DEG F)	(DEG F)	(MBH)	(MBH)	VOLTS	PHASE	Hz	FLA	MARK	(DEG F)	(DEG F)	(DEG F)	QTY	MCA	QTY	MAX. FLA	VOLTS	PHASE	Hz
DAC-1	9.0	21	330	70.0	55.6	55.0	49.2	5.5	5.5	208	1	60	0.76	DCU-1	93	81	30	1	12.0	1	0.5	208	1	60

NOTES:

1. MANUFACTURER RATED CAPACITY AT ARI STANDARD CONDITIONS.

2. PROVIDE UNIT WITH LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEG F.

3. REFRIGERANT PIPING SIZE, ROUTING, AND CONFIGURATION SHALL BE AS RECOMMENDED BY MANUFACTURER OF AIR CONDITIONING UNIT. INSULATE ENTIRE SUCTION LINE WITH MINIMUM 3/4" THICK UNICELLULAR INSULATION.

4. PROVIDE COMPRESSOR WITH ANTI-SHORT CYCLE CONTROLS AND TIME DELAY ON COMPRESSOR RESTART.

5. PROVIDE OUTDOOR UNIT WITH CORROSION PROTECTION FOR COILS AND CASINGS.

6. BASIS OF DESIGN IS MR. SLIM.

7. REFER TO DETAIL 1 ON SHEET M17.

8. PROVIDE WITH CONDENSATE PUMP.

DV COOLING ONLY DUCTLESS SDUIT UNIT SCHEDULE



COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 3250 P: 850-438-0050 F: 850-432-8631

WILLIAM JOSEPH JONES P.E. FLORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138

EXPANSION TANK SCHEDULE						
MARK	SERVICE	TANK MIN. VOLUME (GAL)	MIN. ACCEPTANCE VOLUME (GAL)	PRE-CHARGE PRESS. (PSI)		
ET-1	HW	22.0	12.0	20		
NOTES:	-		-	-		

1. SEAMLESS BLADDER-TYPE EXPANSION TANK.

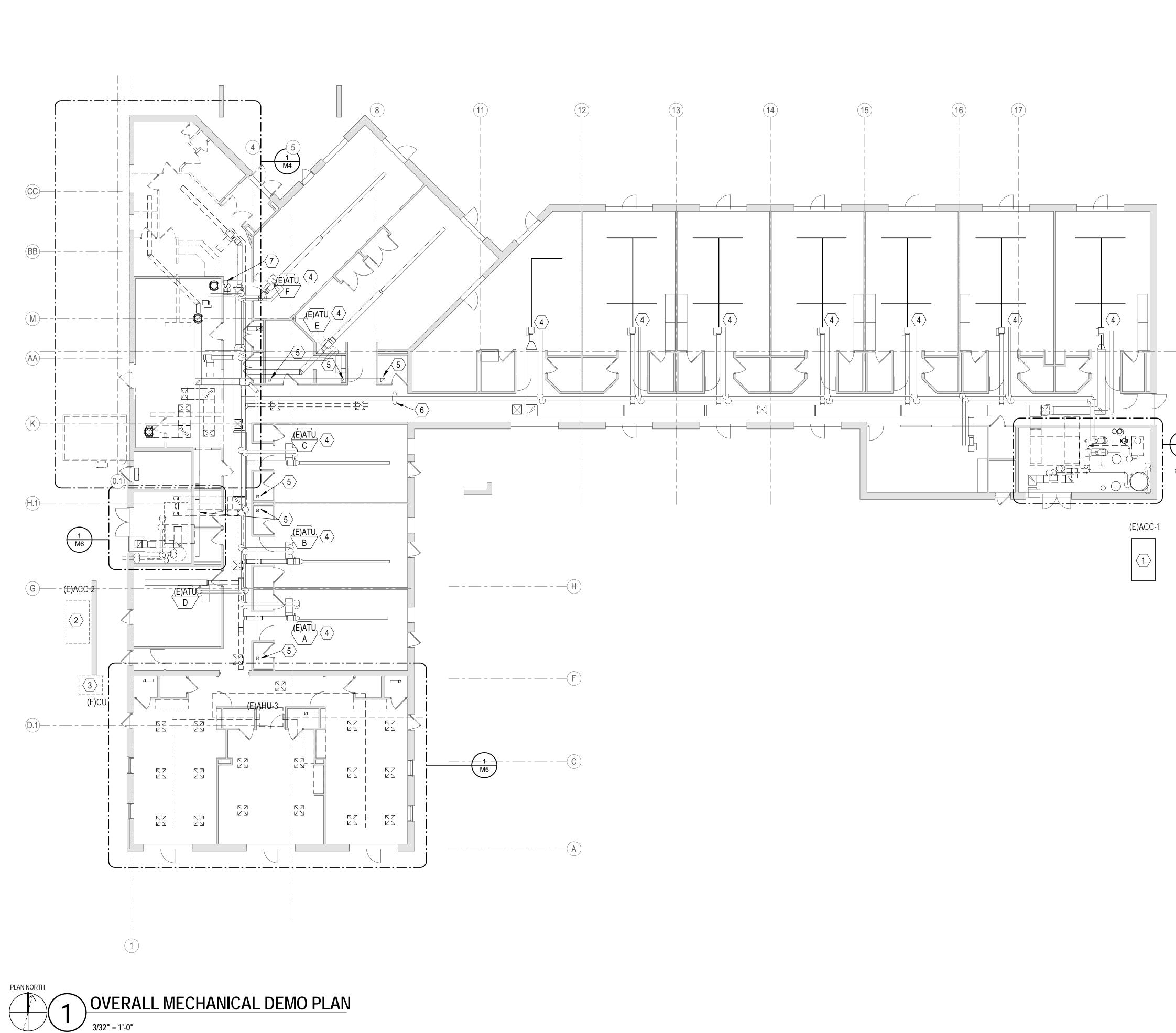
2. SEE DETAIL 4 ON SHEET M18.

3. ASME RATED PRESSURE 125 PSI.

4. BASIS OF DESIGN IS TACO.

DAT DAT DES DRA AU BUIII 90 PRC F	ADAL CHILD DEVELOPMENT CENTED	APPROVED	REV #	DATE	DESCRIPTION	APP'D
ED B ³ Ine 3Y: or 3 Γ NC 3 C NC 4 C NC 5 C NC 12 EF:	BLUG. & REPAIR CHILU DEVELOPINIEINI	CHIEF ENGINEER				
Γ 20 Υ: r	CENTER BLDG. 90353	APPROVED				
		CIVIL ENGINEER				

SHEET NO: 65 of 110



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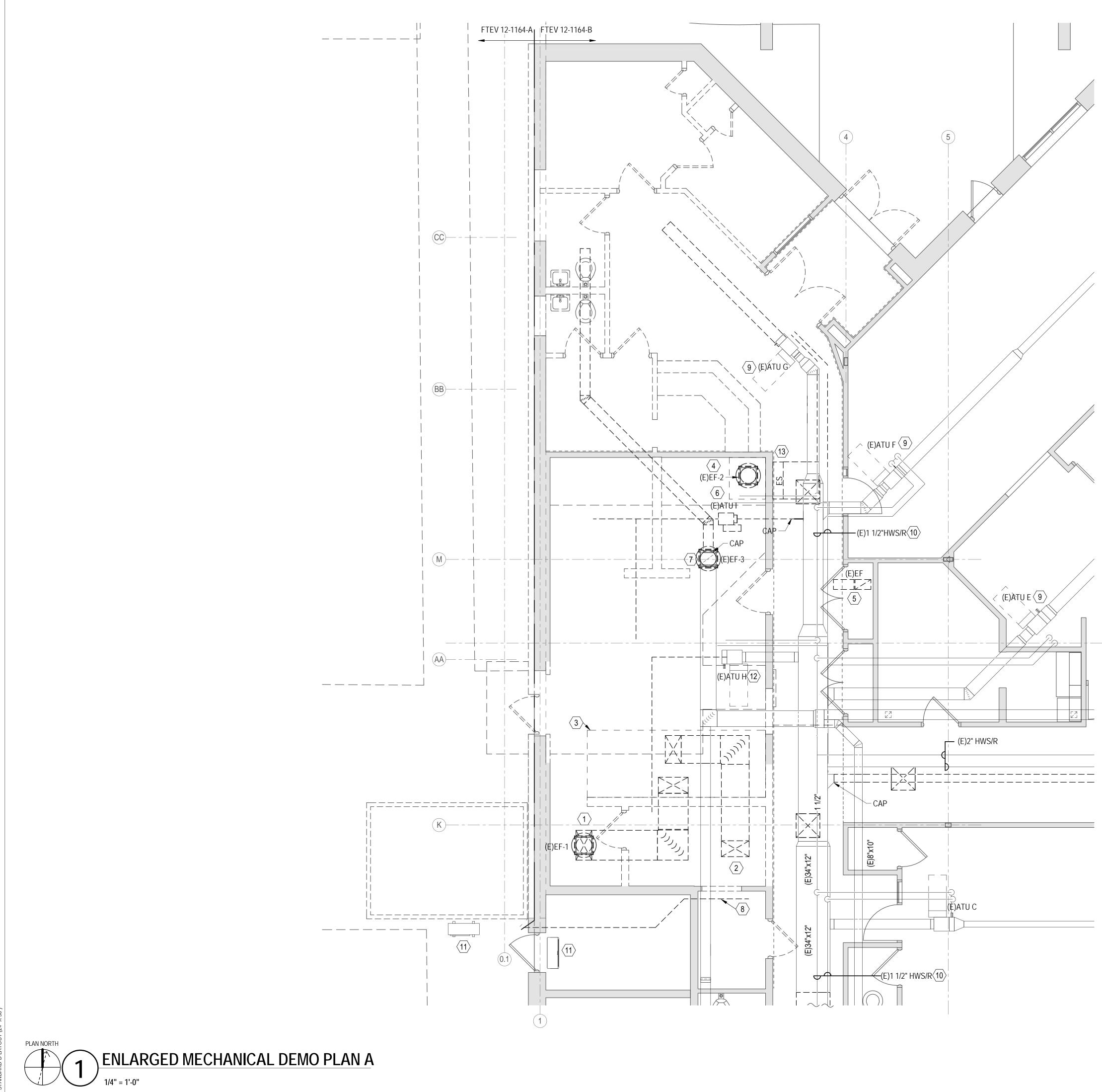
—(L)

 $\binom{2}{M6}$ (E) TO ACC-1

10' 0'

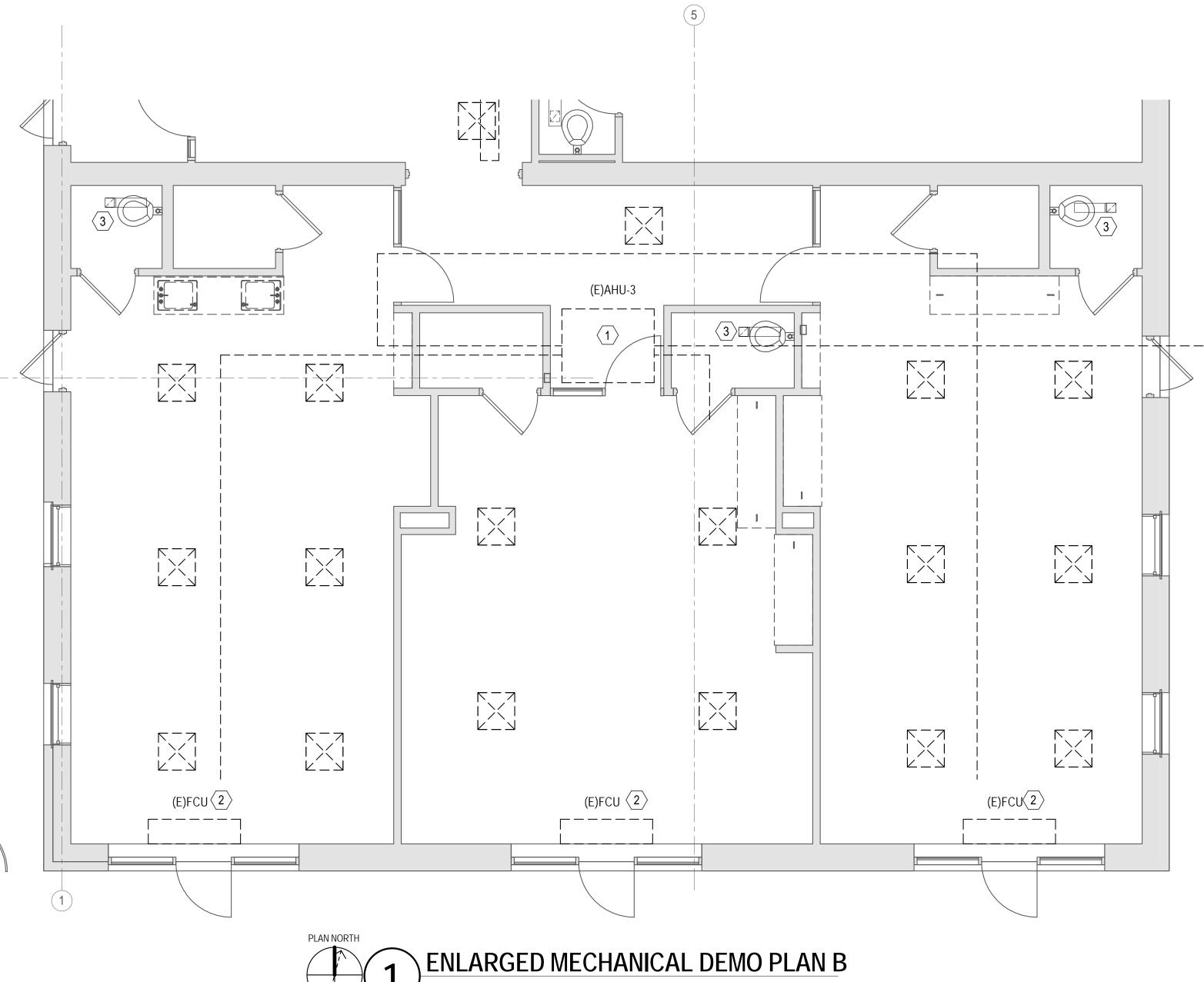
SCALE: 3/32"=1'-0"

	APP'D		
	REV # DATE DESCRIPTION	, INC. TURAL 2502 31 E. 3080 D REMAIN IONS AS D BE	(E) ACC-1, ASSOCIATED PUMP, AND PIPING TO WITH THE EXCEPTION OF PIPING MODIFICATION (E) ACC-2, ASSOCIATED PUMP, AND PIPING TO REMOVED.
CHIEF ENGINEER APPROVED	APPROVED	O SHEET	(E)ATU UNITS TO REMAIN. REBALANCE EXISTING EXHAUST REGISTERS (I AIRFLOW INDICATED ON NEW WORK PLANS. (E) HWS/HWR PIPING TO REMAIN. EXISTING HVAC SYSTEM SHUTOFF. REFER TO M22. GENERAL NOTES
G. & REPAIR CHILD DEVEL CENTER BLDG. 90353	ADAL CHILD DEVELOPMENT CENTER	E ALDWELL SITS AND BLE AREAS ATE WALL LL PATCH AND NEW VED O FROM S EMS TEMS	INFORMATION INDICATING LOCATION AND SIZ EQUIPMENT, DUCTWORK, PIPING, ETC. WERE OBTAINED FROM AS BUILT DRAWINGS BY CAL ASSOCIATES DATED NOV. 1991 AND SITE VISIT ARE REPRESENTATIVE OF THE BEST AVAILAB SOURCE TO DATE. CONTRACTOR SHALL CUT AND PATCH ANY AF NECESSARY TO PERFORM WORK. COORDINA OR FLOOR FINISH WITH ARCHITECTURAL. PRIOR TO SUBSTANTIAL, CONTRACTOR SHALL OR REPLACE ALL DAMAGED WALL, CEILING, A FLOOR DURING CONSTRUCTION TO MATCH N WORK. COORDINATE WITH ARCHITECTURAL. ALL MECHANICAL ASSOCIATED ITEMS REMOV SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE TRANSFERRED JOB SITE, EXCEPT THE AIR COOLED CHILLER INDICATED TO BE REMOVED AND OTHER ITEM SELECTED BY THE GOVERNMENT, THESE ITEN SHALL BE RELOCATED TO STORAGE AREA DESIGNATED BY THE GOVERNMENT. PIPING CONNECTED TO ASSOCIATED HVAC IT AND EQUIPMENT THAT IS TO BE REMOVED SH
AIR FURCE SPECIAL OPERATIONS COMMAND 1 SPECIAL OPERATIONS ENGINEER SQUADRON	AIR FORCE SPECIAL	VISED OR G UTILITY N AGES OR AND MINED L INTACT TIONS. DNS TO ATE XISTING /ORK.	AND EQUIPMENT THAT IS TO BE REMOVED SH CAPPED SO AS NOT TO INTERFERE WITH REV NEW CONDITIONS. CONTRACTOR SHALL NOT DISRUPT EXISTING SERVICES WITHOUT ASCERTAINING WRITTEN PERMISSION FROM OWNER. REQUIRED OUTA SHUTDOWNS SHALL BE KEPT TO A MINIMUM A SHALL BE PERFORMED WITHIN A PREDETERN TIME FOR DURATION OF SHUT-DOWN. UNLESS NOTED OR SHOWN OTHERWISE, ALL EXISTING UTILITY SERVICES SHALL REMAIN IN AND ACTIVE TO FACILITATE REVISED CONDITI CONTRACTOR SHALL PROVIDE MODIFICATION EXISTING UTILITY SERVICES TO ACCOMMODA REVISED CONDITIONS. CONTRACTOR SHALL CUT AND PATCH ALL EX DUCTWORK AS NECESSARY TO PERFORM WC COORDINATE WITH EXISTING DUCTWORK MAT
SEPT 201 GIGNED BY: AD AWN BY:	DESIG CAI DRAW CAI BUILD 903 PROJI		KEYPLAN



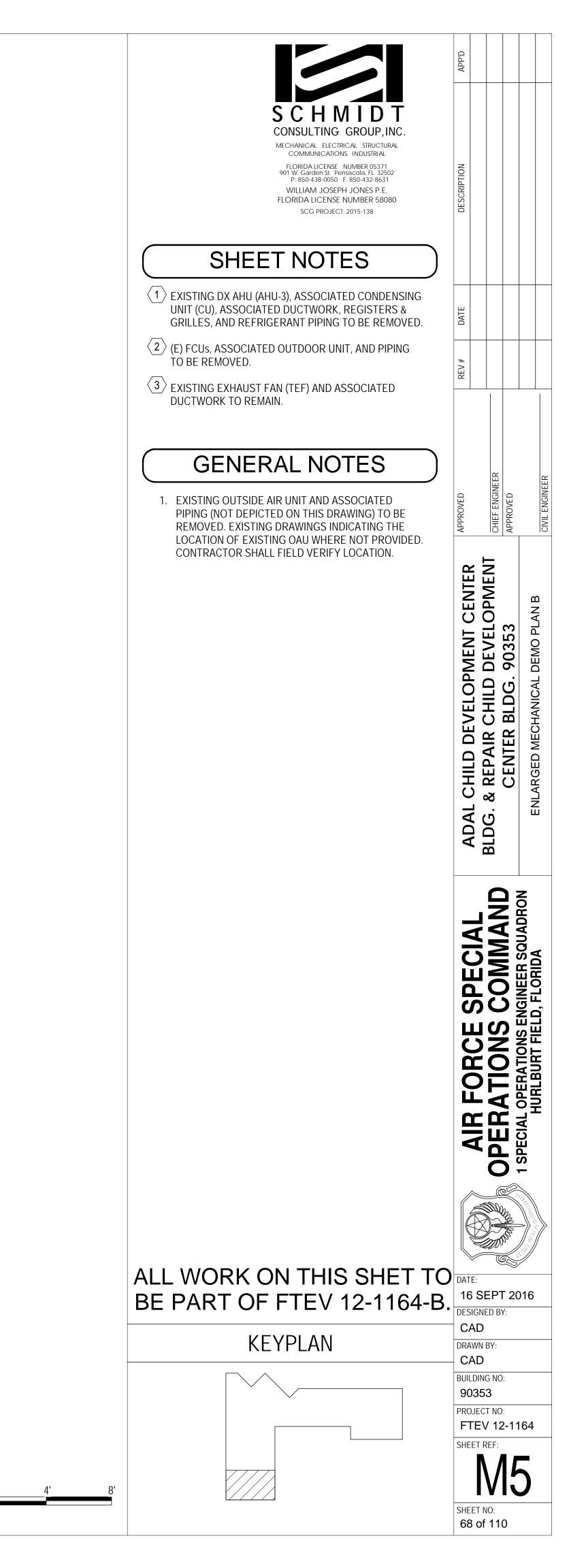
TANDARD D LAYOUT (24" X

	EVALUATIONS INDUSTRIAL	APP'D		
	FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 WILLIAM JOSEPH JONES P.E. FLORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138	DESCRIPTION		
	SHEET NOTES			
	EXISTING ROOF MOUNTED EF (EF-1), AND DUCTWORK SERVING KITCHEN HOOD TO BE REMOVED. ASSOCIATED ROOF CURB TO REMAIN, CAP AND SECURE WEATHERTIGHT. SEE ARCHITECTURAL SHEET A18.	DATE		
2	EXISTING ROOF MOUNTED MAU (MAU-1) AND ASSOCIATED DUCTWORK SERVING KITCHEN HOOD TO BE REMOVED. PATCH ROOF TO MATCH EXISTING.	REV #		
3	EXISTING KITCHEN HOOD TO BE REMOVED			
4	EXISTING ROOF MOUNTED EF (EF-2) AND ASSOCIATED DUCTWORK SERVING DISHWASHER CONDENSATE HOOD TO BE REMOVED. EXISTING CONDENSATE HOOD TO BE REUSED IN NEW KITCHEN LAYOUT. SEE NEW WORK.	DVED	CHIEF ENGINEER APPROVED	
(5)	EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO BE REMOVED. PATCH ROOF TO MATCH EXISTING.	APPROVED	–	
6	(E) VAV UNIT, ASSOCIATED DUCT, AND CONTROLS TO BE REPLACED. ASSOCIATED PIPING TO BE CAPPED BACK TO MAIN.	CENTER	DEVELOPMEN 90353	N A
$\langle 7 \rangle$	(E) EF-3 AND CURB LOCATED ON THE ROOF TO BE REMOVED. MODIFY ROOF OPENING AS NECESSARY FOR NEW FAN AND CURB, AND SEAL WEATHERTIGHT. SEE NEW WORK.	DEVELOPMENT (DEVEL(90353	ENLARGED MECHANICAL DEMO PLAN A
8	(E) DRYER EXHAUST TO BE REMOVED.	ELOP	CHILD BLDG.	NICAL
9	(E) ATU UNIT, AND ASSOCIATED DUCT TO REMAIN. ASSOCIATED CONTROLS TO BE REMOVED. ASSOCIATED PIPING TO REMAIN.			D MECHA
< <u>10</u>	(E) HWS/R PIPING SHALL REMAIN AND BE MODIFIED AS NECCESSARY TO CONFORM TO LAYOUT OF NEW WORK.	AL CHILD	i. & REF CEN	ENLARGE
$\langle 11 \rangle$	(E) DUCTLESS SPLIT SYSTEM TO REMAIN.	ADA	BLDG	
<12> 12	(E) AIR TERMINAL UNIT TO REMAIN. DOWNSTREAM DUCT TO BE REMOVED. ASSOCIATED CONTROLS TO BE REMOVED.			~
	EXISTING HVAC SYSTEM SHUTOFF. REFER TO SHEET M22.EXISTING HVAC SYSTEM SHUTOFF. REFER TO SHEET M22.	AIR FORCE SDECIAI	RATIONS COMMA	I SPECIAL OPERATIONS ENGINEER SQUADRON HURLBURT FIELD. FLORIDA
			SEPT 20 GNED BY:	16
	KEYPLAN	CA DRAW	VN BY:	
		BUILD 903 PROJ FTI SHEE	DING NO:	
		SHEE		Ť

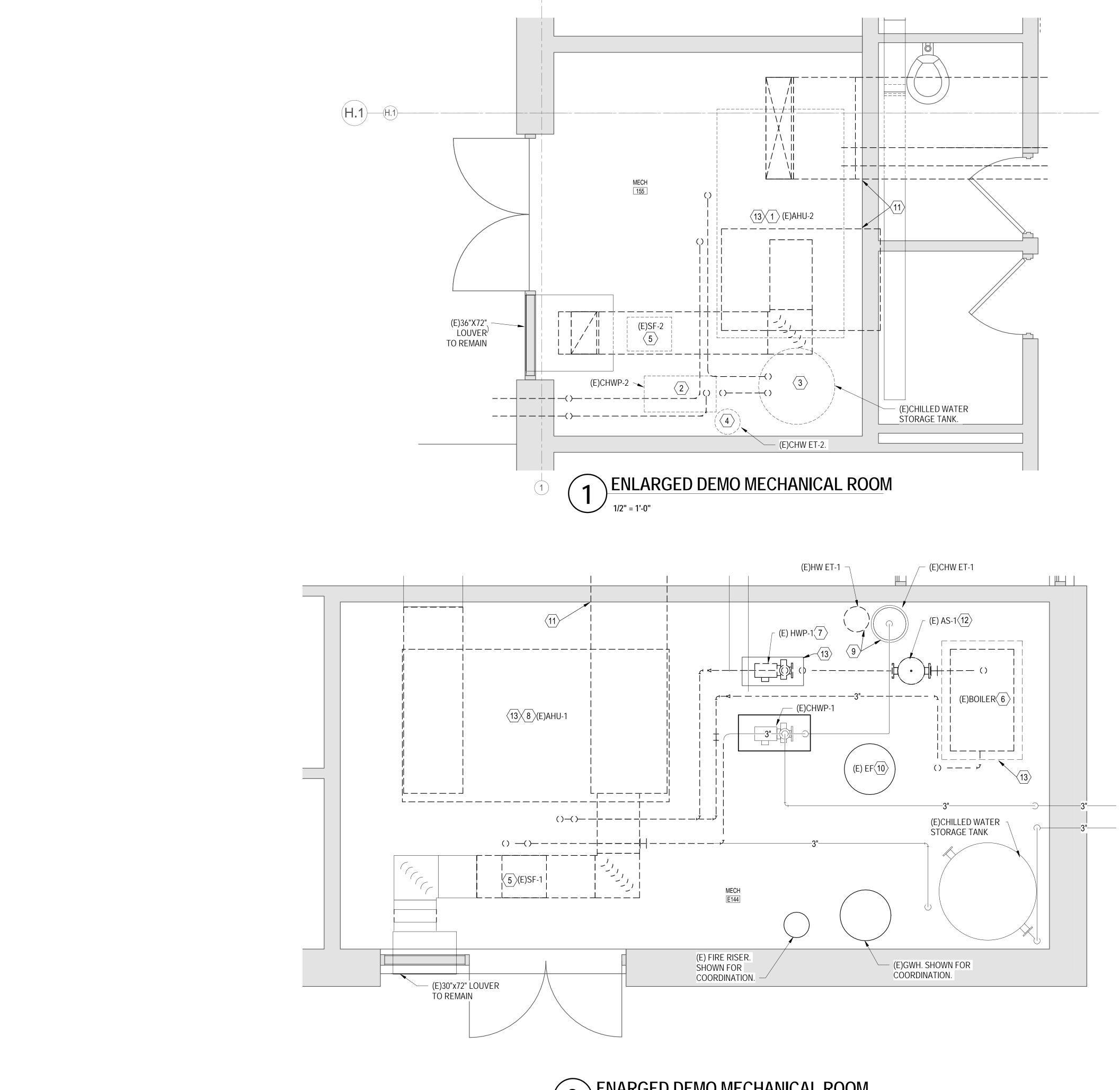




1/4" = 1'-0"

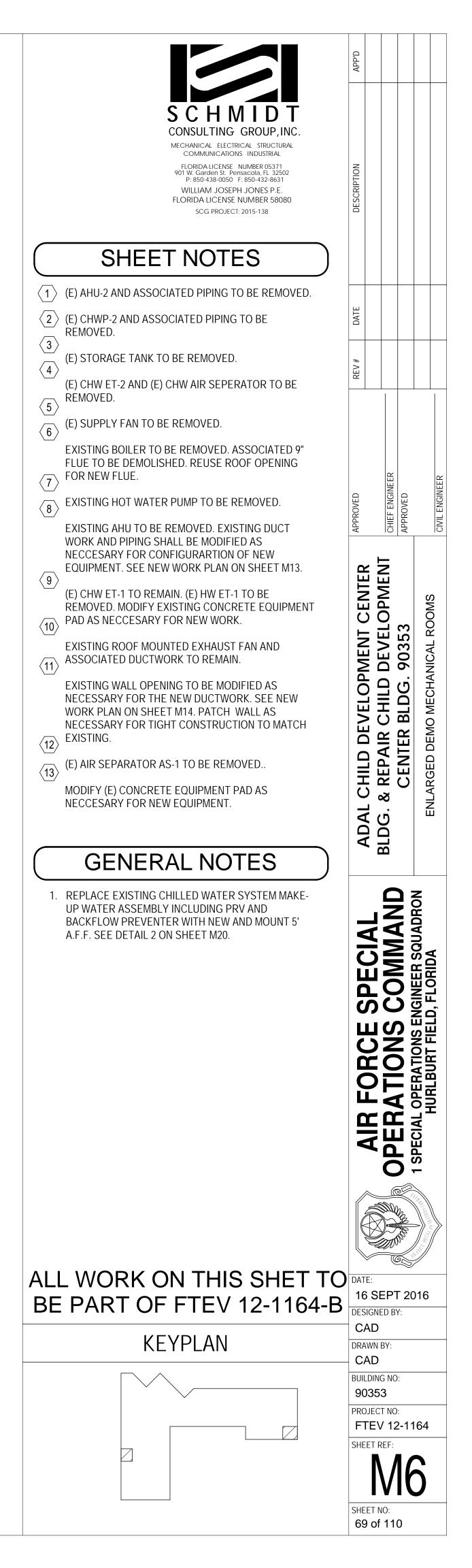


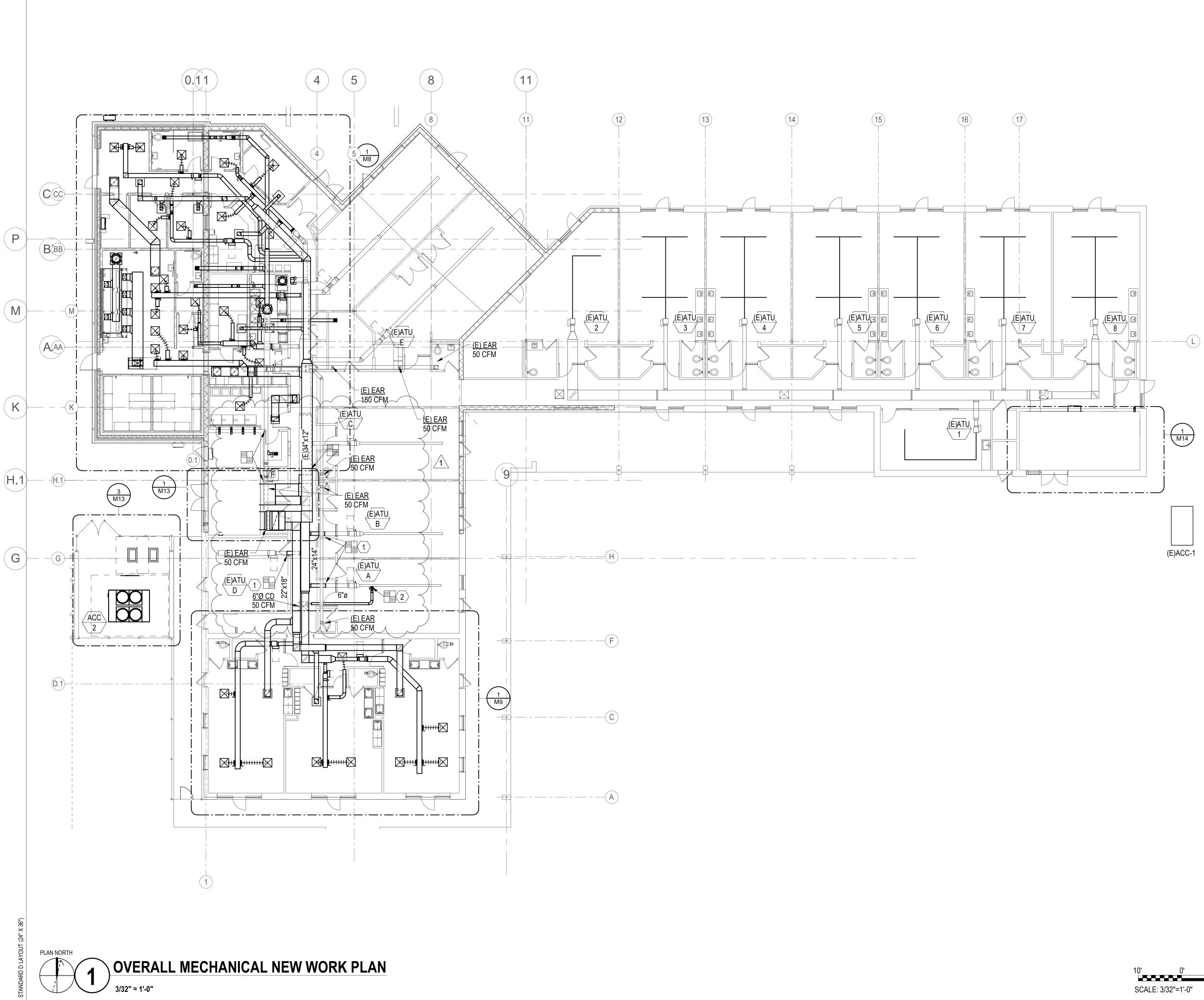
SCALE: 1/4"=1'-0"

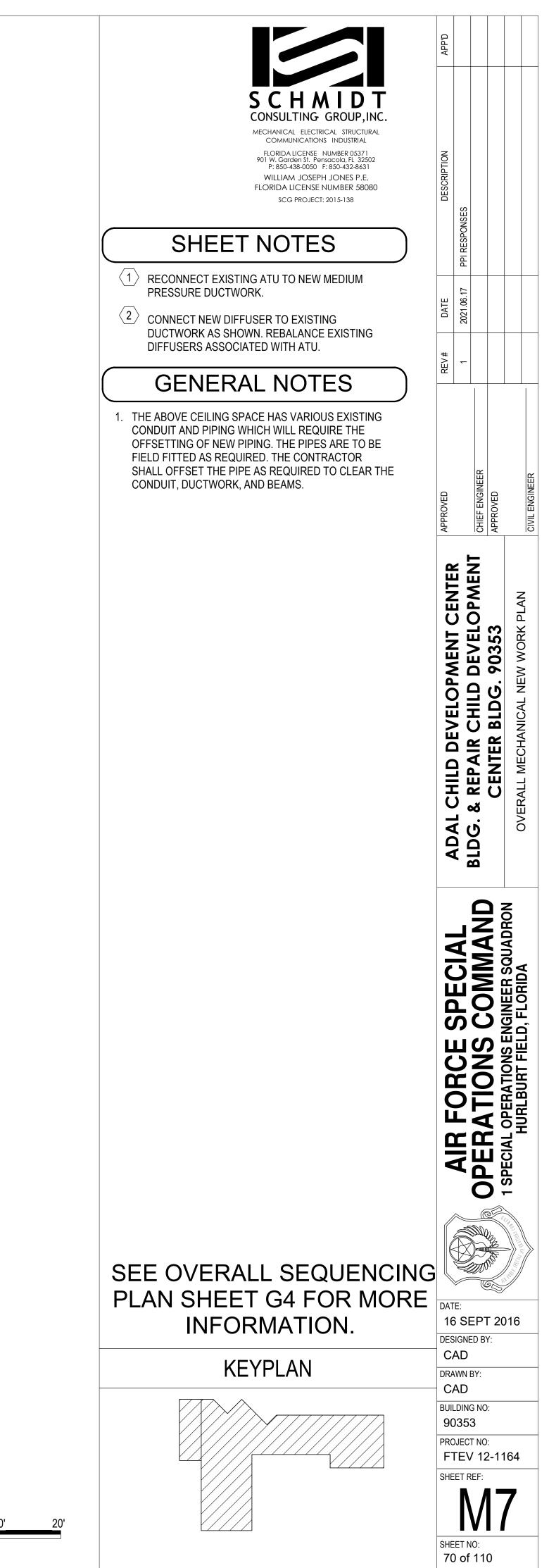


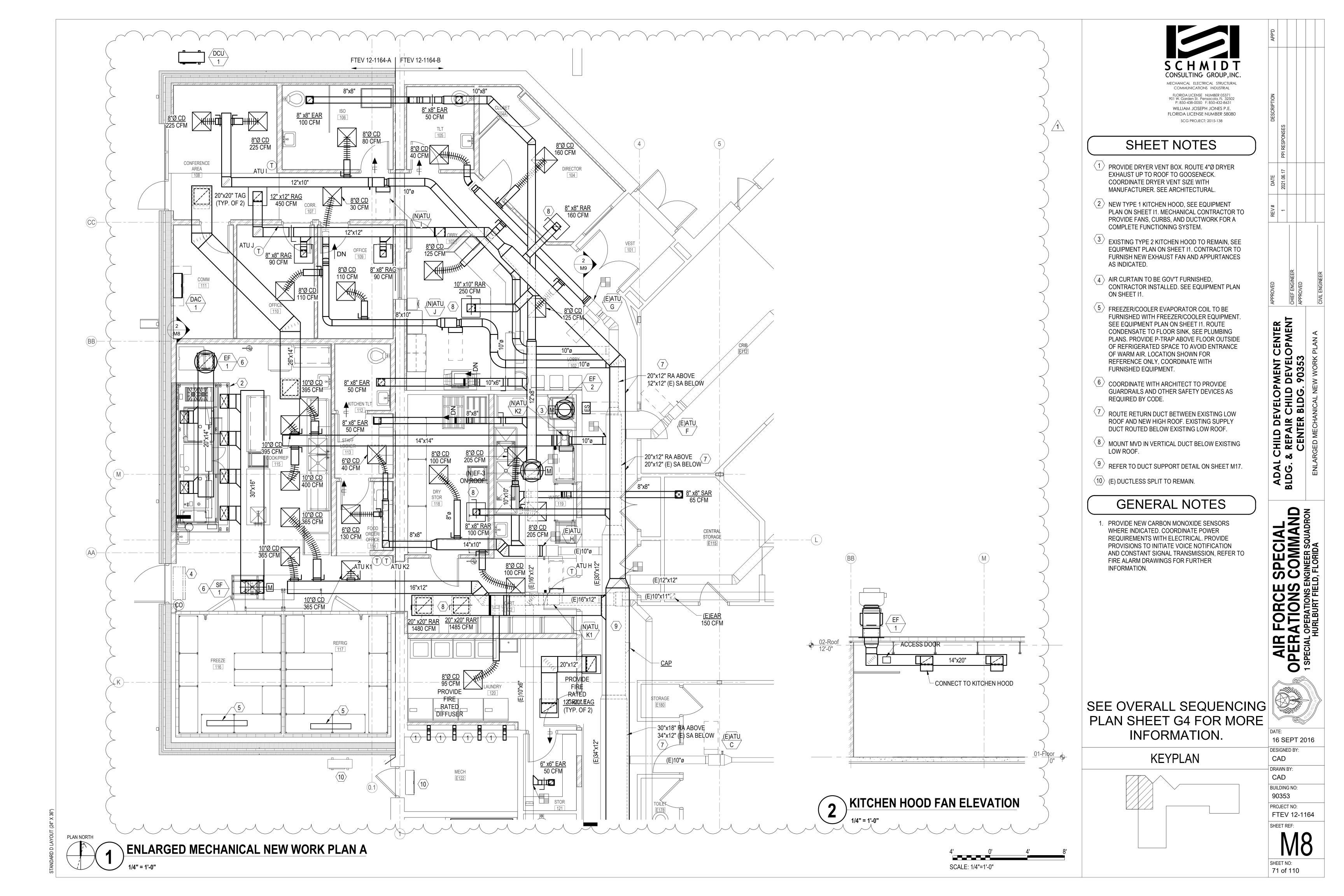
STANDARD D LAYOUT (24" X 36'

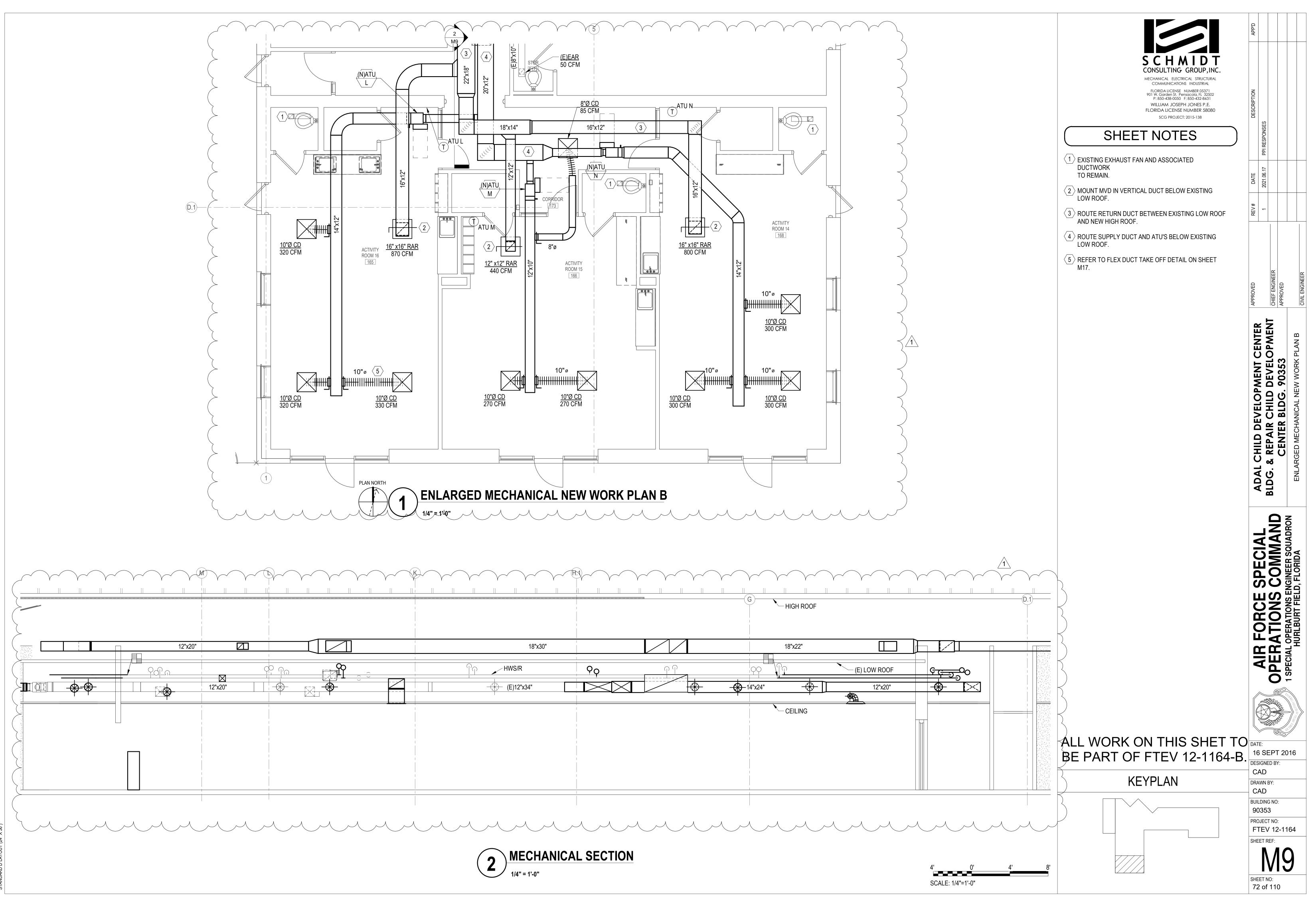
2 ENARGED DEMO MECHANICAL ROOM

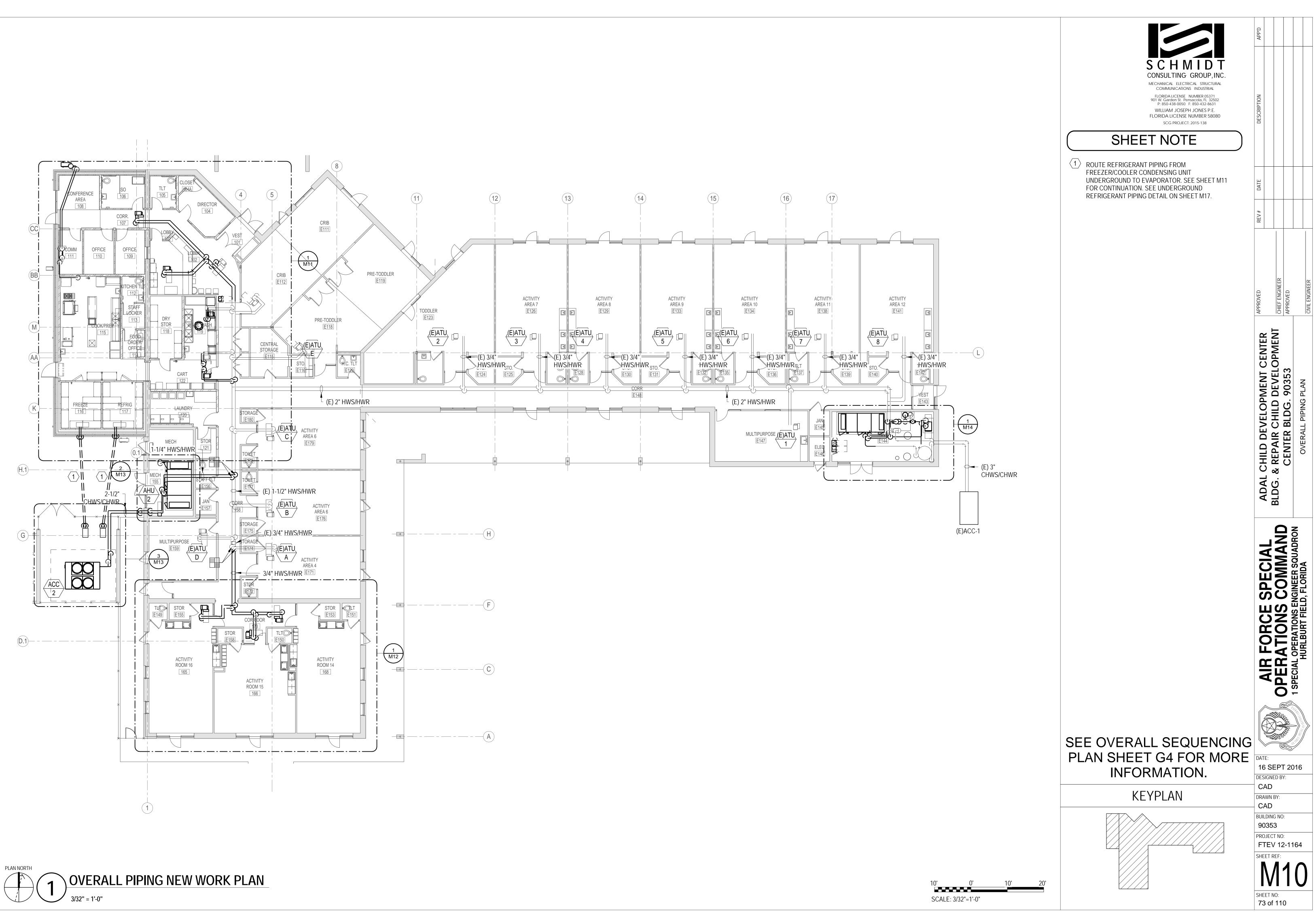


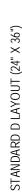


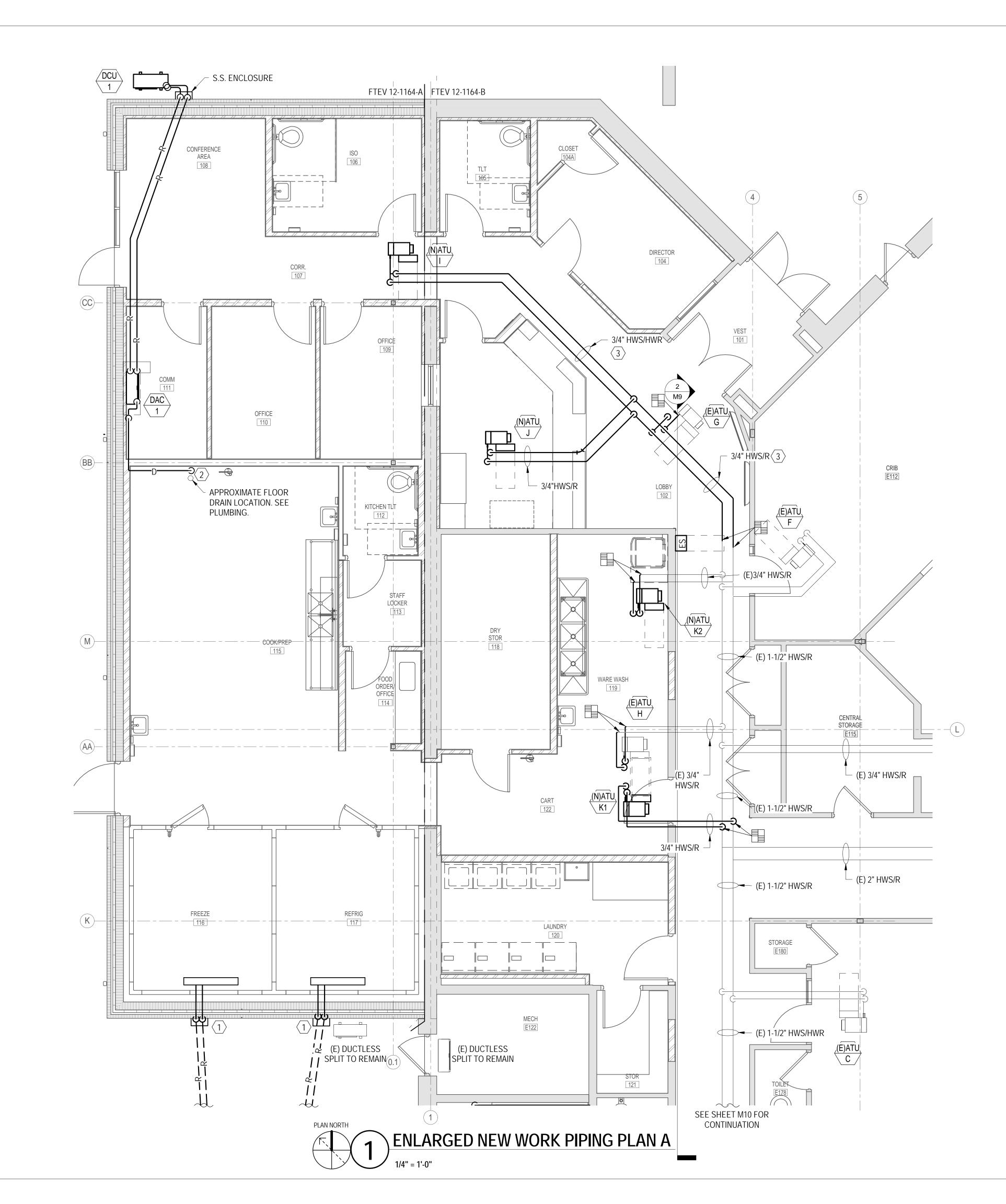


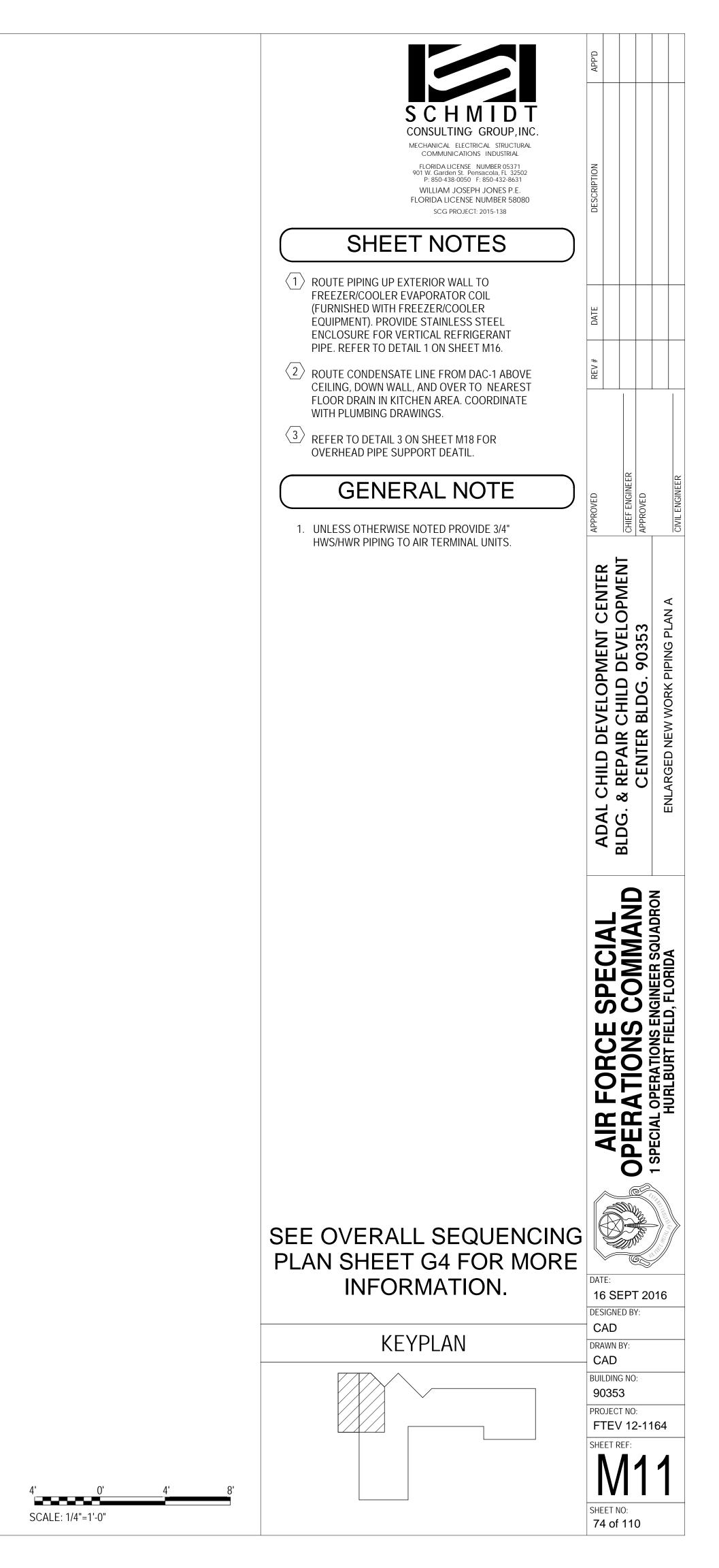


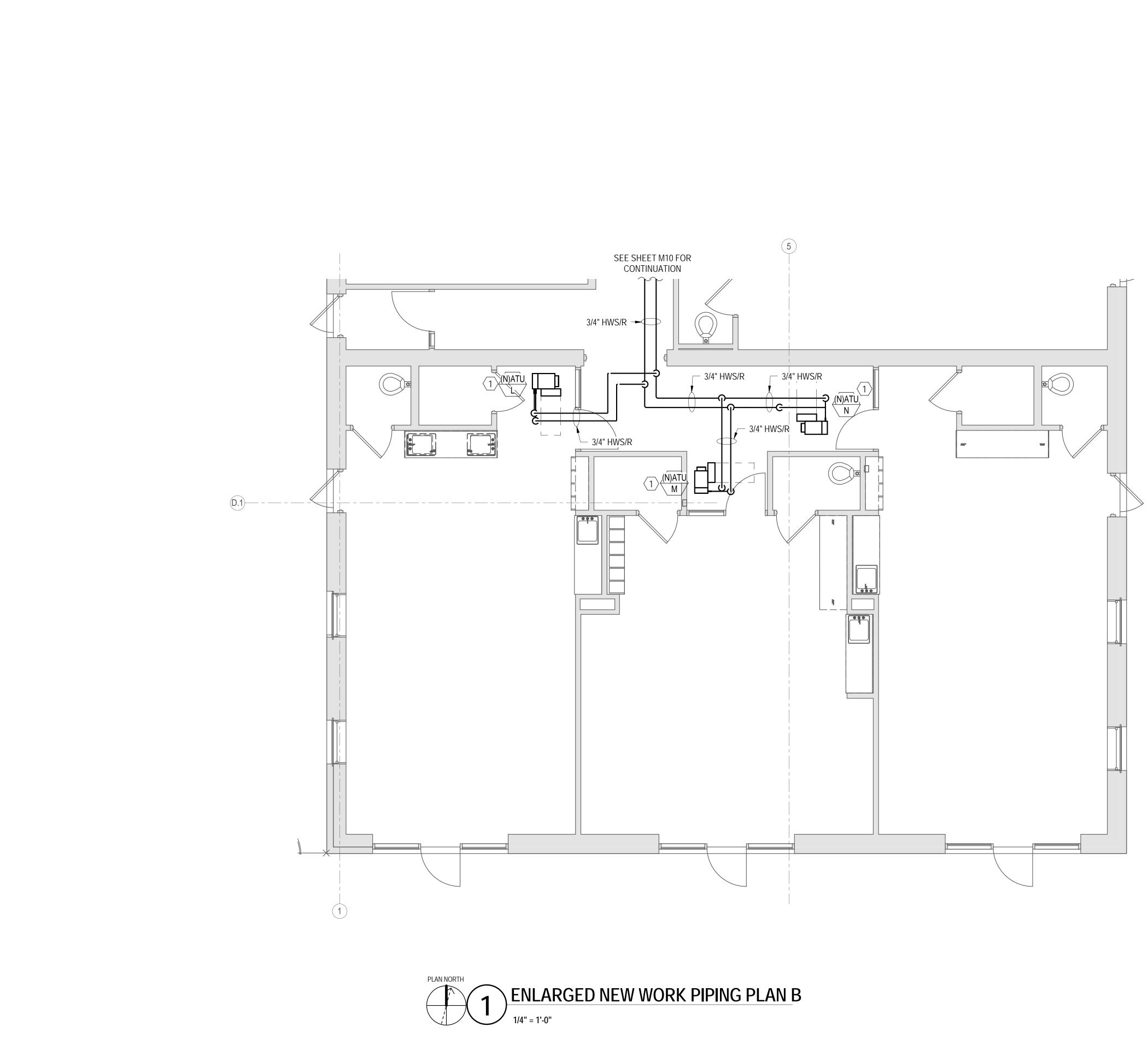




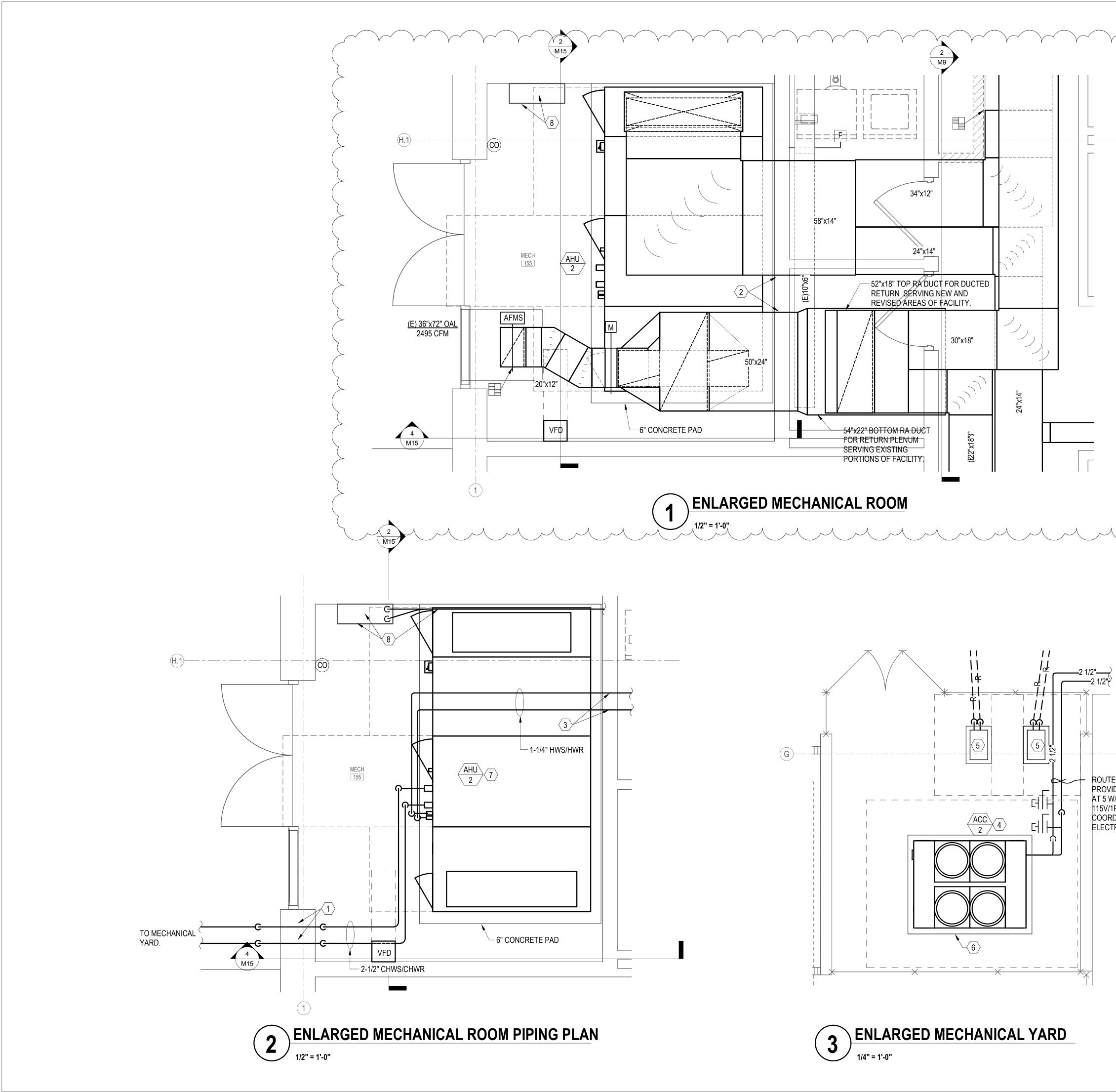


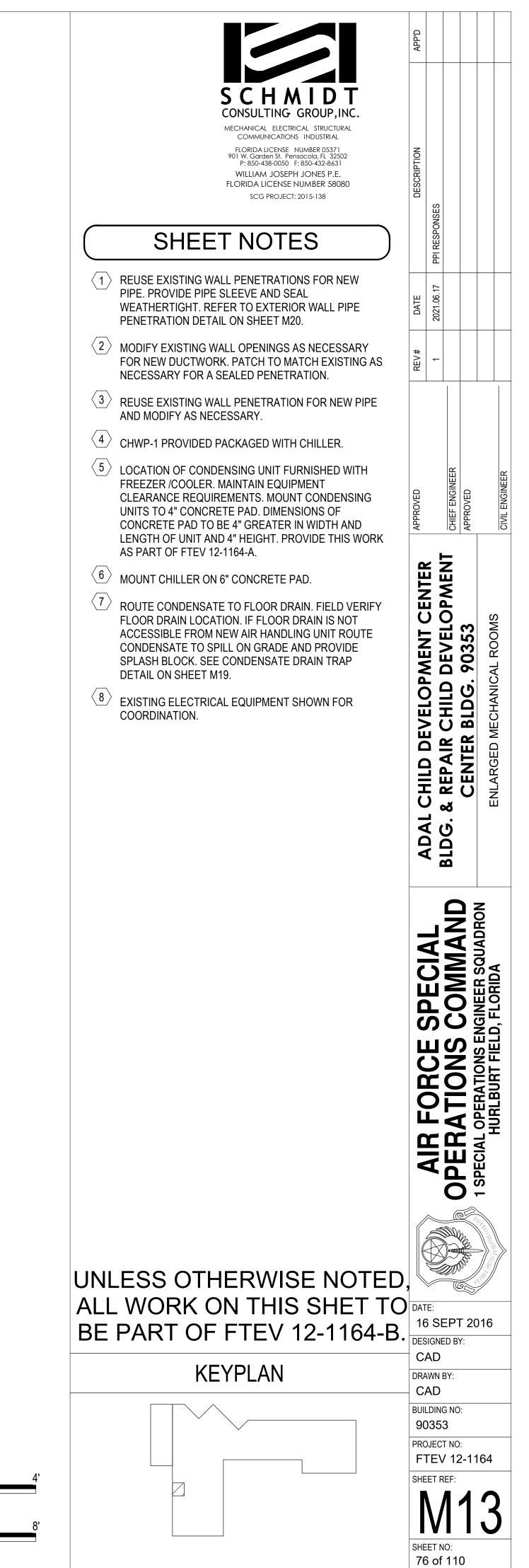






		APP'D
	SCG PROJECT: 2015-138	DESCRIPTION
	SHEET NOTES	
	(1) REFER TO TYPICAL VAV HOT WATER COIL CONNECTION DETAIL (VAV) ON SHEET M19.	DATE
		REV #
		APPROVED CHIEF ENGINEER APPROVED CIVIL ENGINEER
		ADAL CHILD DEVELOPMENT CENTER BLDG. & REPAIR CHILD DEVELOPMENT CENTER BLDG. 90353 ENLARGED NEW WORK PIPING PLAN B
		AIR FORCE SPECIAL OPERATIONS COMMAND 1 SPECIAL OPERATIONS ENGINEER SQUADRON HURLBURT FIELD, FLORIDA
	ALL WORK ON THIS SHET TO	
	BE PART OF FTEV 12-1164-B. KEYPLAN	16 SEPT 2016 DESIGNED BY: CAD DRAWN BY:
		BUILDING NO: 90353
		PROJECT NO: FTEV 12-1164 SHEET REF:
4' <u>0'4'</u> 8' SCALE: 1/4"=1'-0"		SHEET NO: 75 of 110

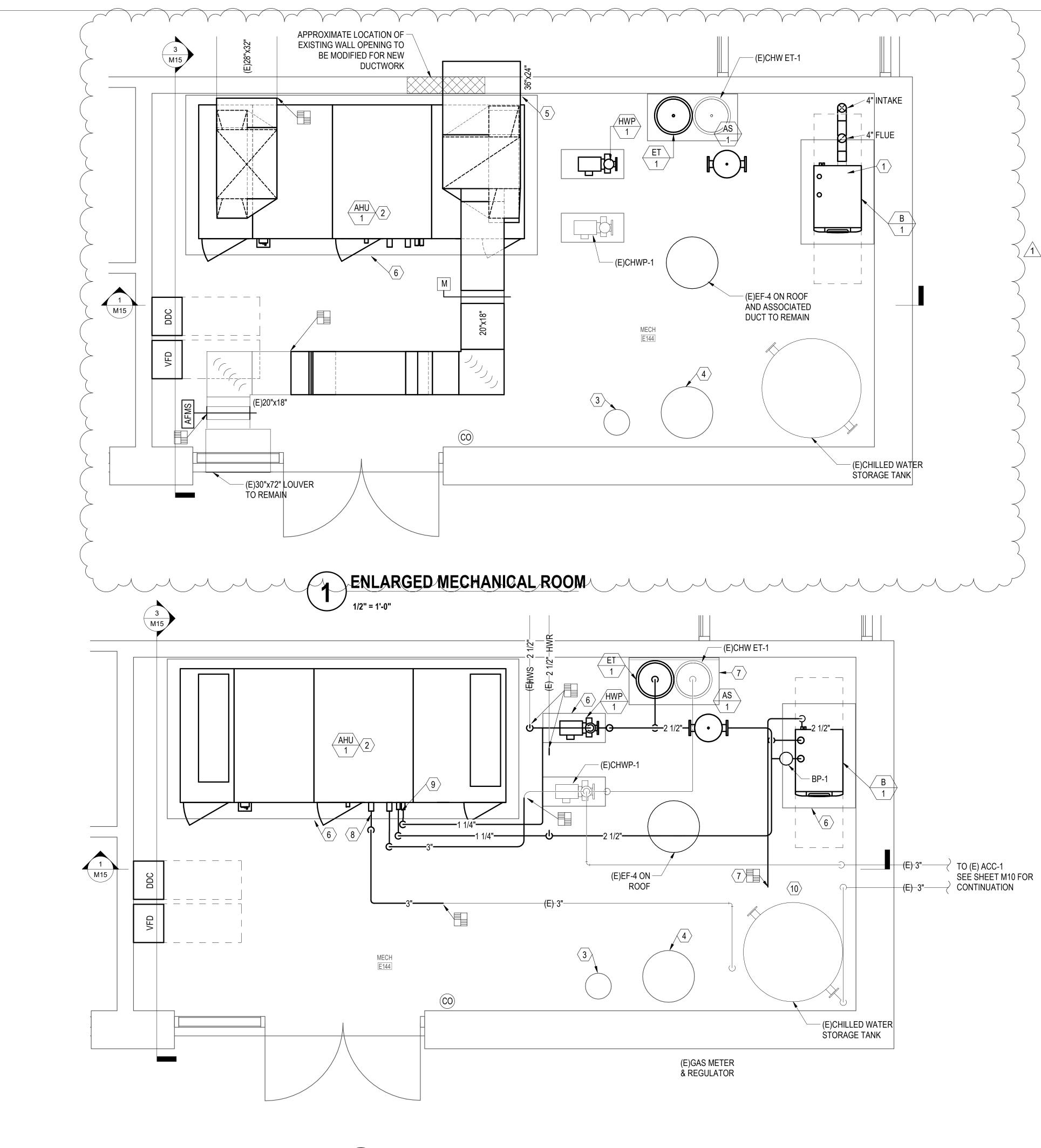




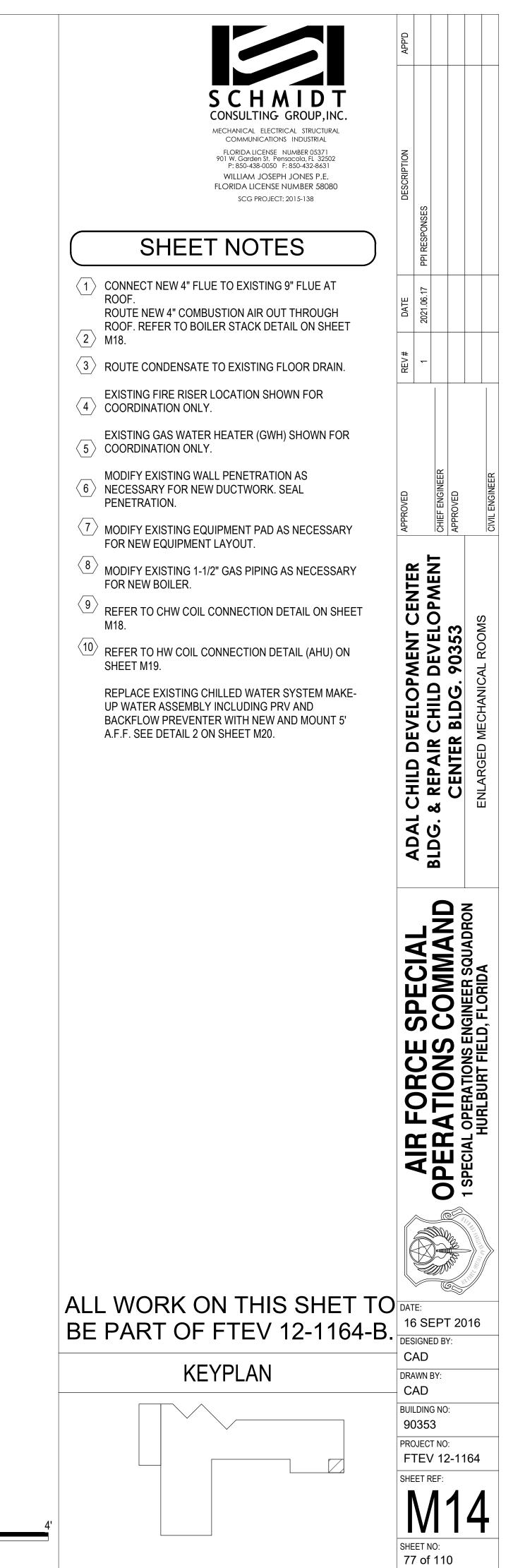
ROUTE ABOVE GRADE. PROVIDE HEAT TRACE AT 5 W/LF, 115V/1PH/60HZ, COORDINATE WITH ELECTRICAL.

2'	0'	2'	4
SCALE:	1/2"=1'-0"		
4'	0'	4'	8
SCALE:	1/4"=1'-0"		



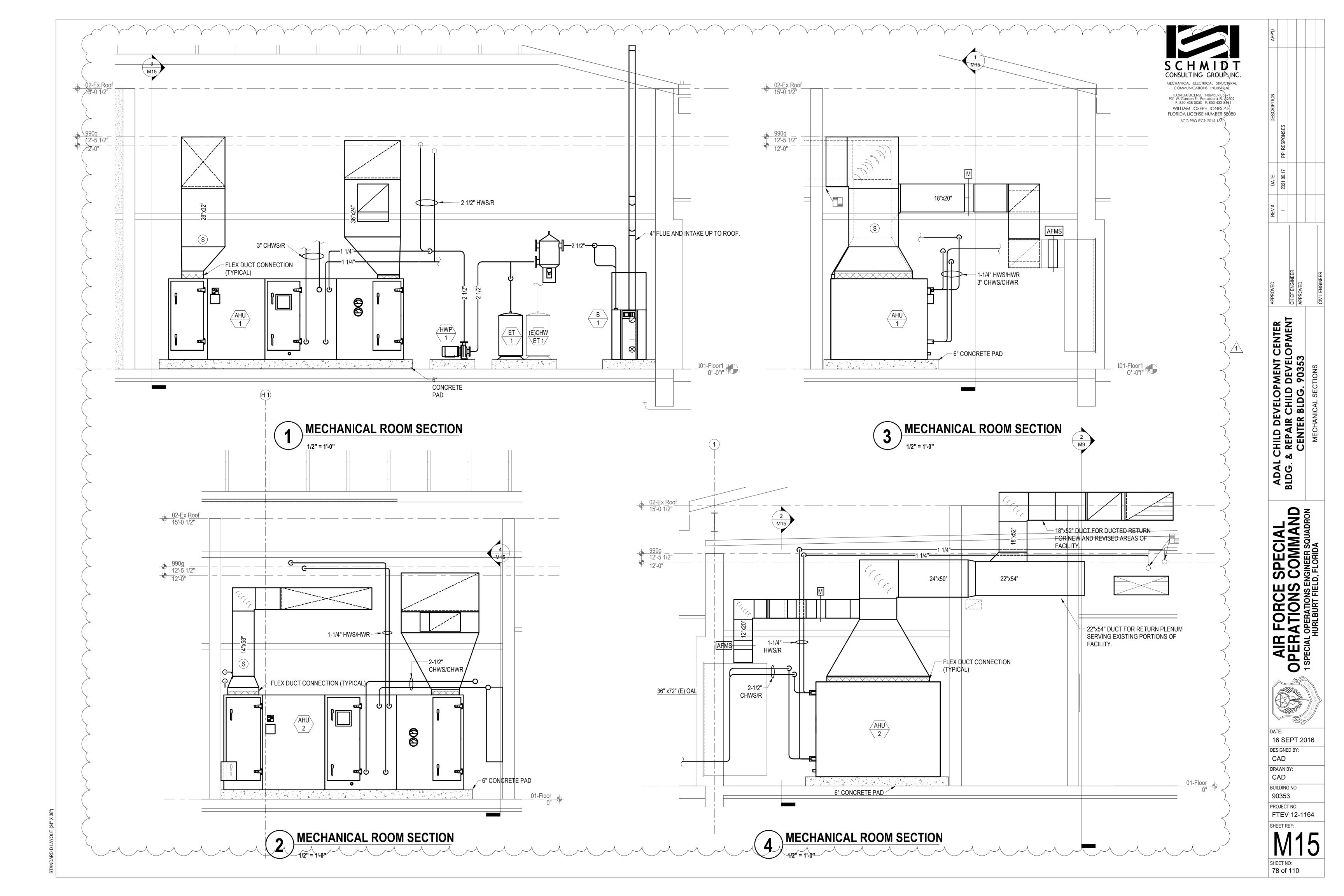


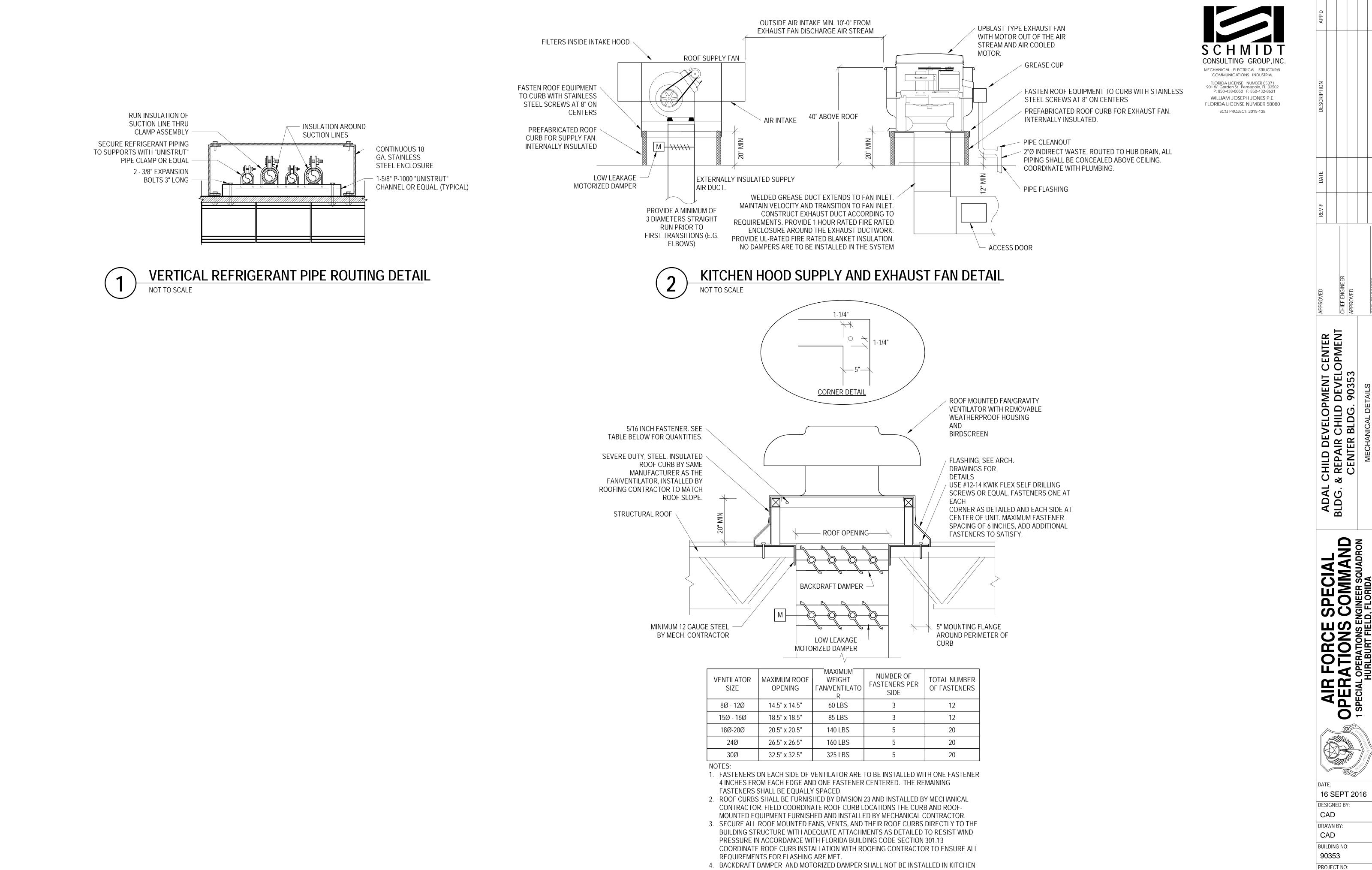
2 ENLARGED MECHANICAL ROOM PIPING PLAN 1/2" = 1'-0"



/1

SCALE: 1/2"=1'-0"





4. BACKDRAFT DAMPER AND MOTORIZED DAMPER SHALL NOT BE INSTALLED IN KITCHEN HOOD EXHAUST FAN SYSTEM.

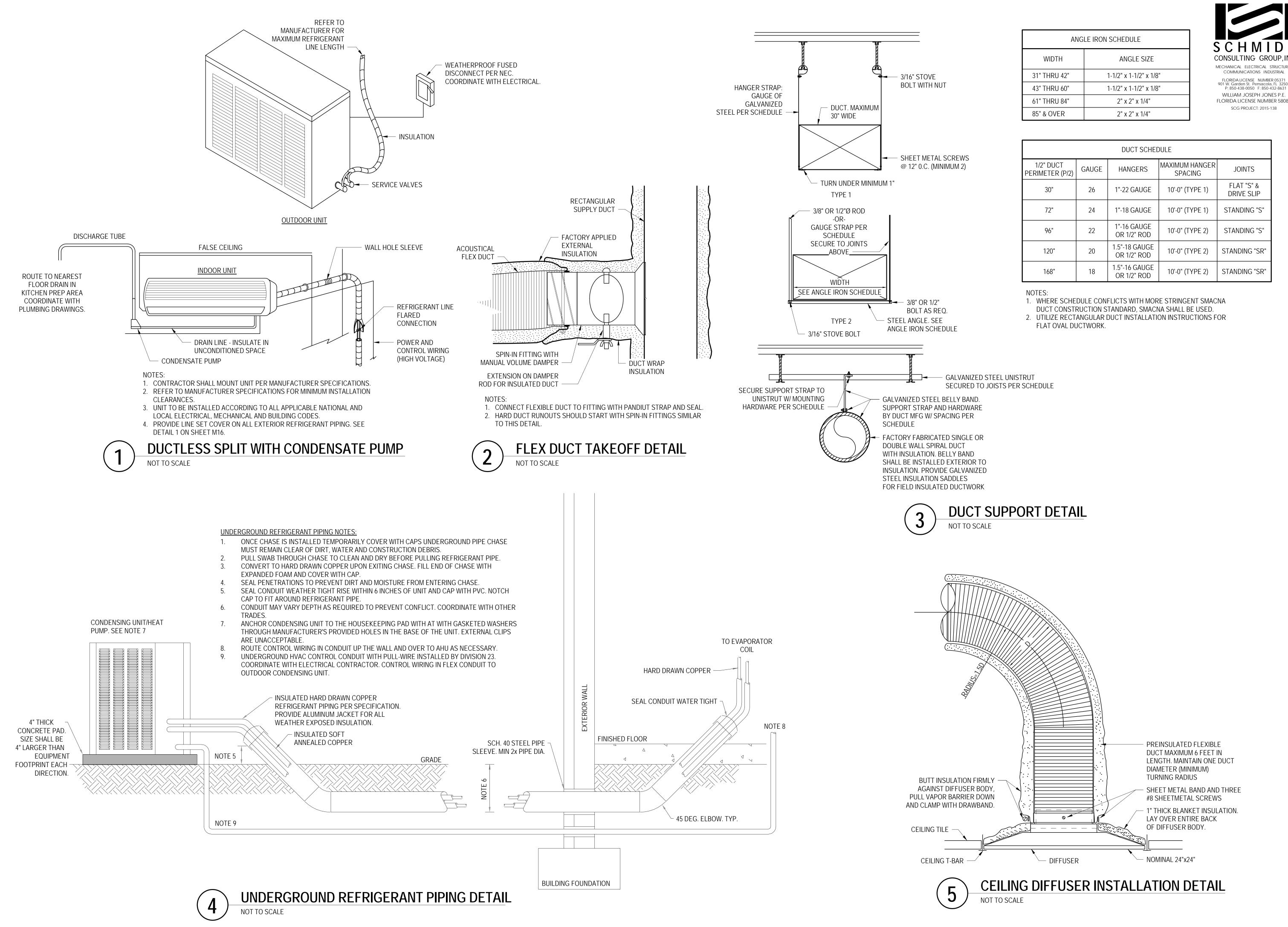


FTEV 12-1164

M16

SHEET REF:

SHEET NO: 79 of 110



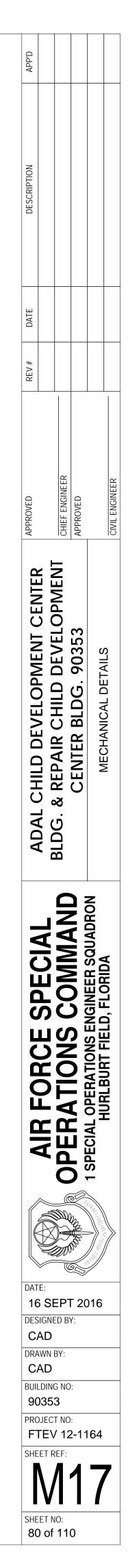
•	•		 D DUP,I	T INC.

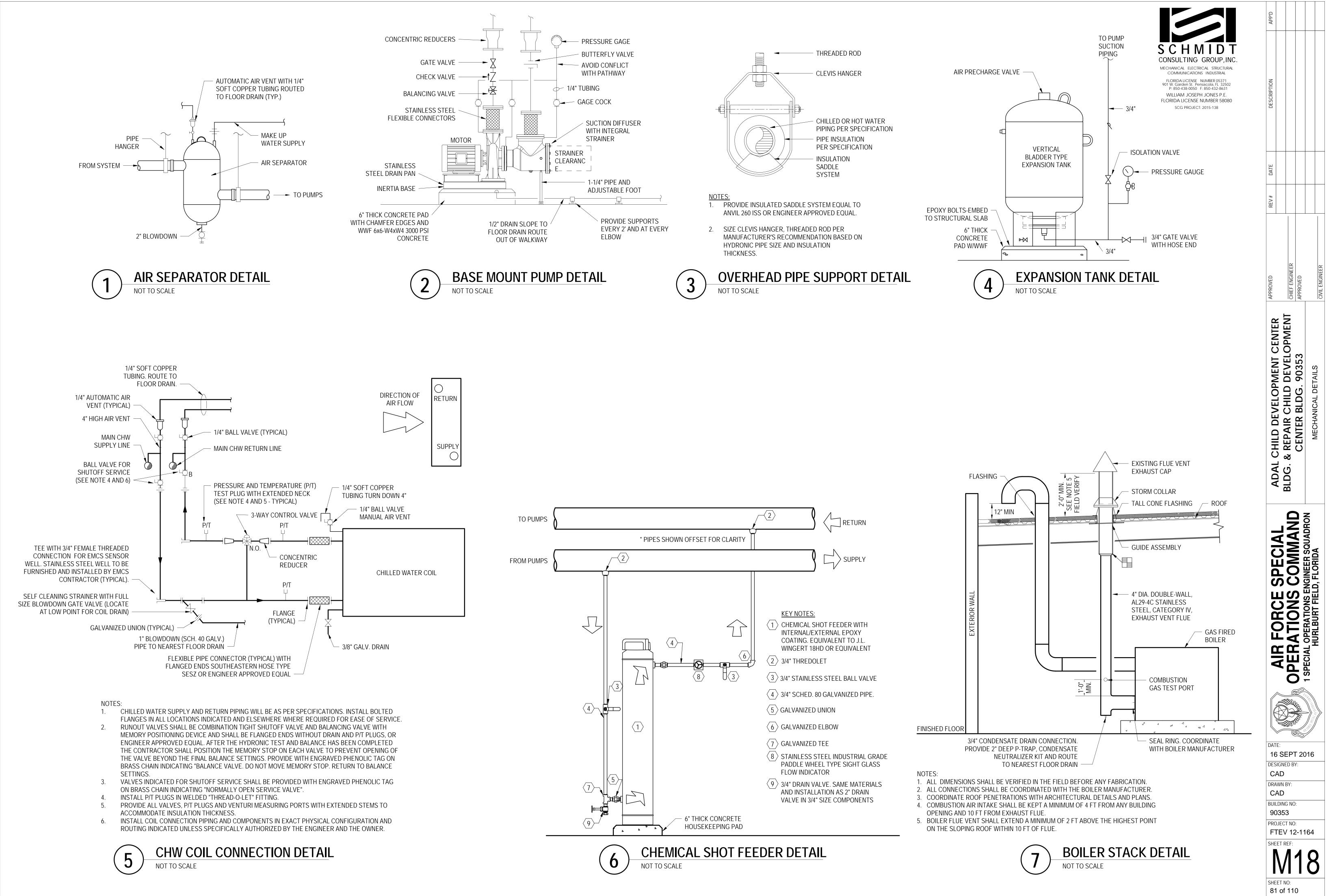
MECHANICAL ELECTRICAL STRUCTURAL COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502

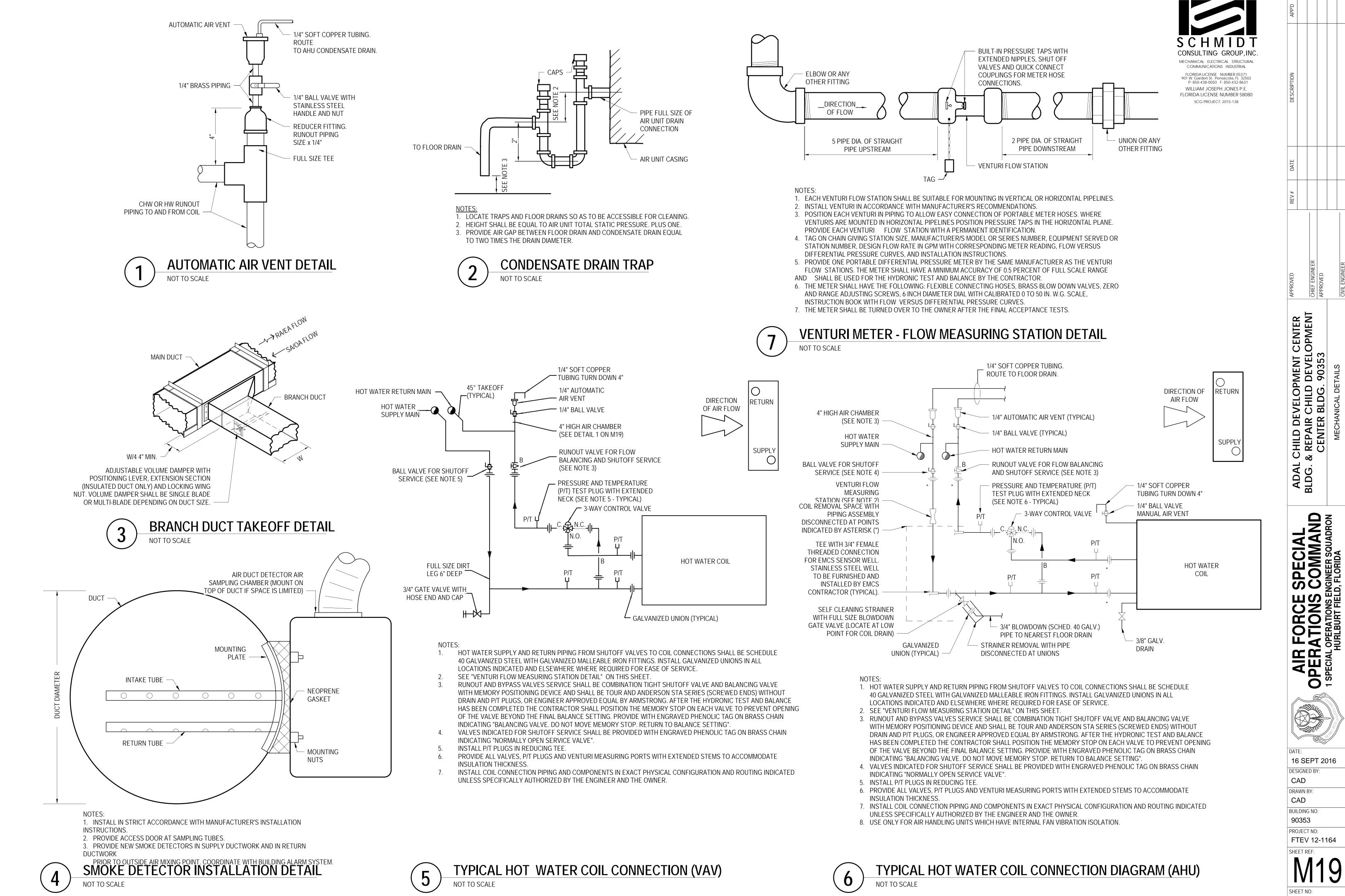
WILLIAM JOSEPH JONES P.E. FLORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138

WS	
2)	

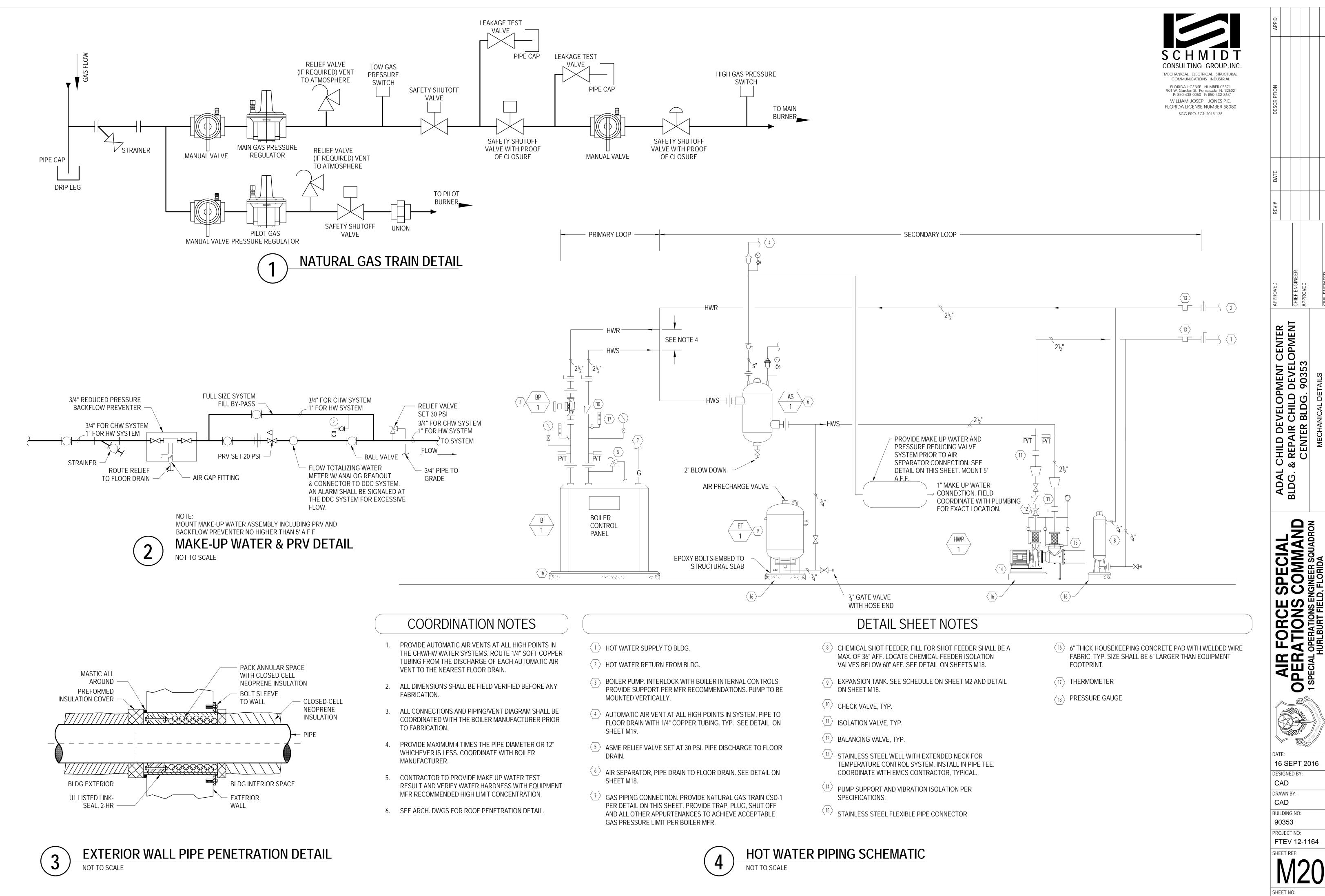
DUCT SCHEDULE							
1/2" DUCT PERIMETER (P/2)	GAUGE	HANGERS	MAXIMUM HANGER SPACING	JOINTS			
30"	26	1"-22 GAUGE	10'-0" (TYPE 1)	FLAT "S" & DRIVE SLIP			
72"	24	1"-18 GAUGE	10'-0" (TYPE 1)	STANDING "S"			
96"	22	1"-16 GAUGE OR 1/2" ROD	10'-0" (TYPE 2)	STANDING "S"			
120"	20	1.5"-18 GAUGE OR 1/2" ROD	10'-0" (TYPE 2)	STANDING "SR"			
168"	18	1.5"-16 GAUGE OR 1/2" ROD	10'-0" (TYPE 2)	STANDING "SR"			





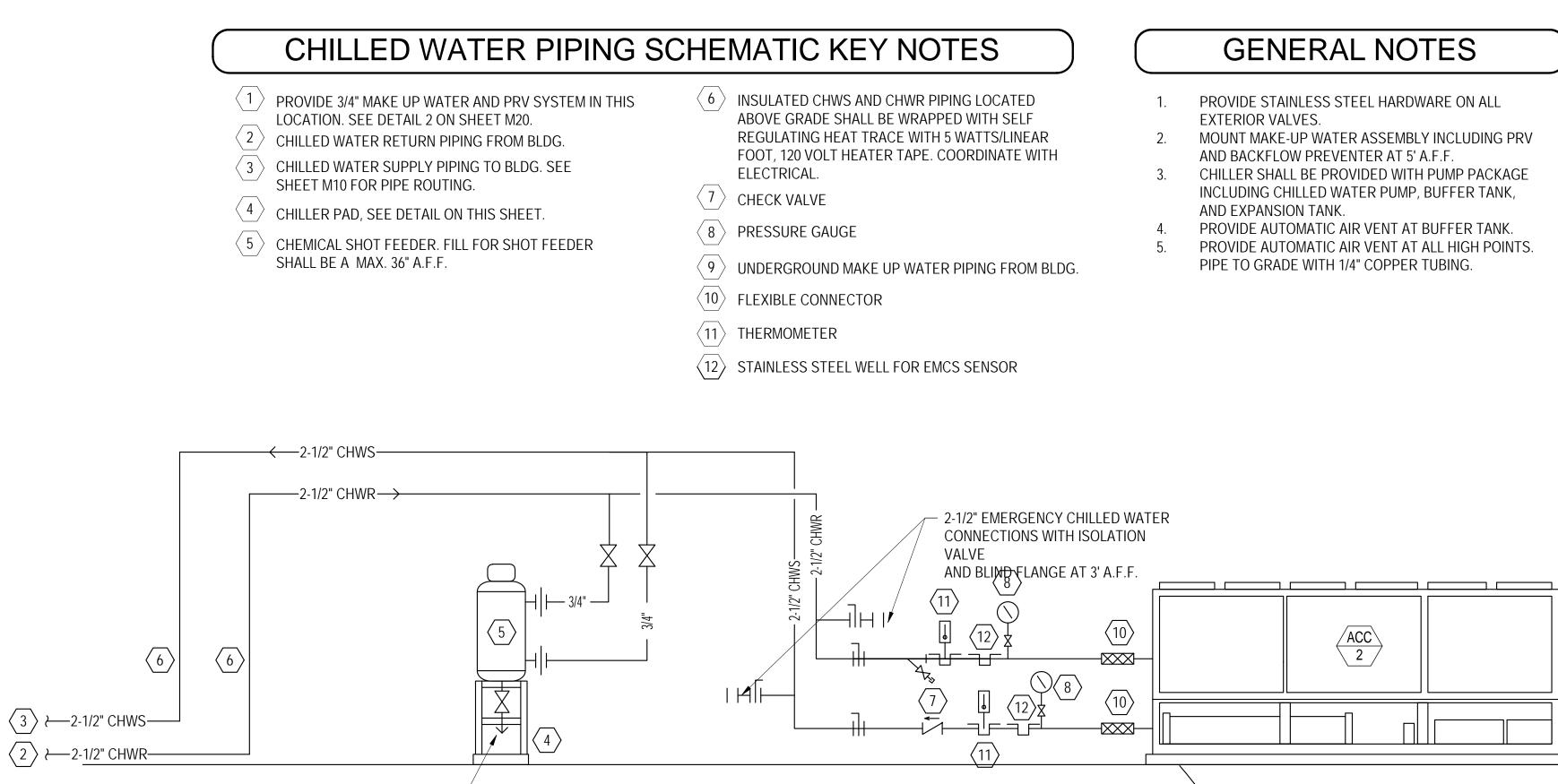


82 of 110



M20 83 of 110

- SHEET M10 FOR PIPE ROUTING.
- SHALL BE A MAX. 36" A.F.F.

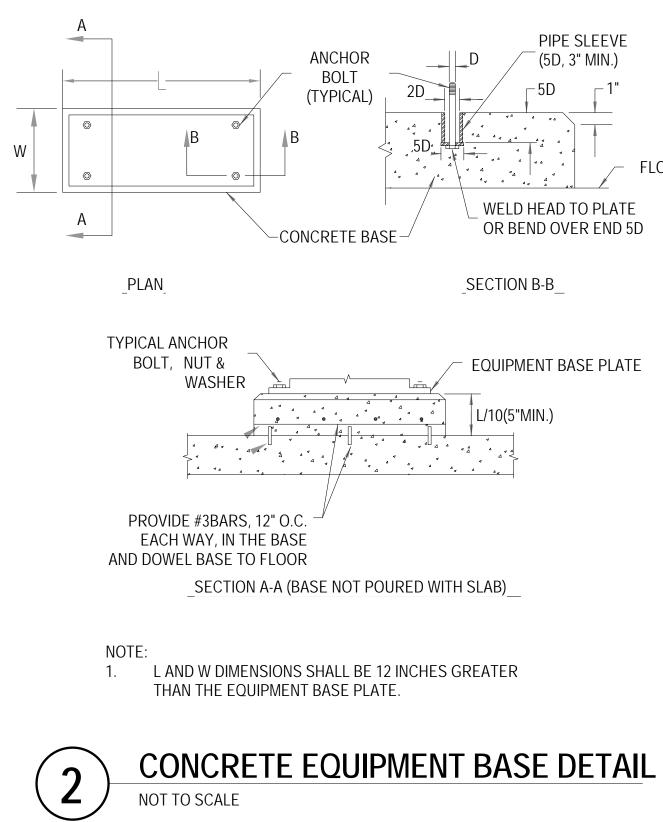


NOT TO SCALE

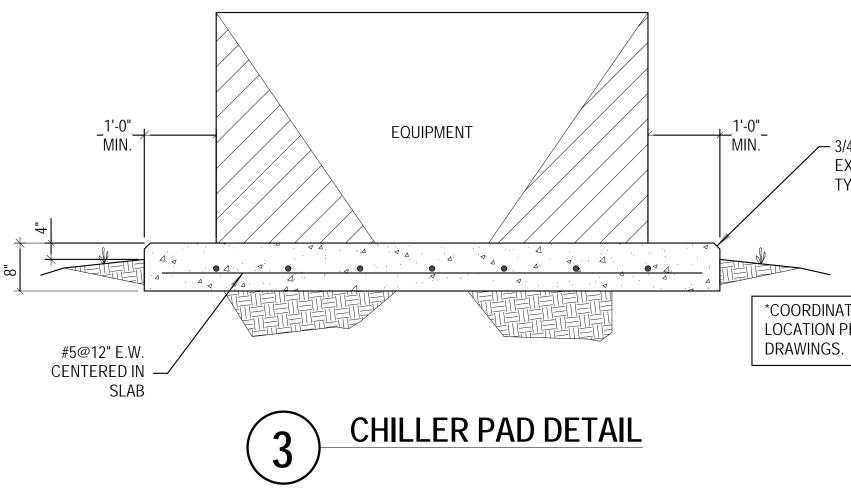
PIPING SCHEMATIC FOR NEW CHILLED WATER SYSTEM ASSOCIATED WITH ACC-2.

CHILLED WATER PIPING SCHEMATIC





FLOOR



 $\langle 4 \rangle$

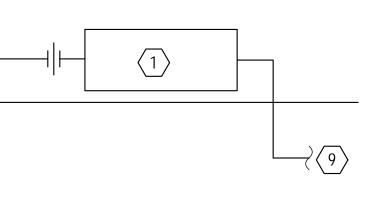


FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631

WILLIAM JOSEPH JONES P.E. FLORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138

AIR FORCE SPECIAL ADAL CHILD DEVELOPMENT CENTER AIR FORCE SPECIAL ADAL CHILD DEVELOPMENT CENTER OPERATIONS COMMAND BLDG. & REPAIR CHILD DEVELOPMENT OPERATIONS ENGINEER SQUADRON CENTER BLDG. 90353 I SPECIAL OPERATIONS ENGINEER SQUADRON MECHANICAL DETAILS APROVE MECHANICAL DETAILS OPERATIONS ENGINEER SQUADRON MECHANICAL DETAILS APROVE OPERATIONS ENGINEER SQUADRON MECHANICAL DETAILS OPERATIONS	REV # DATE DESCRIPTION				
ND BLI BLI	APPROVED	 CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
AIR FORCE SPECIAL OPERATIONS COMMAND 1 SPECIAL OPERATIONS ENGINEER SQUADRON HURLBURT FIELD, FLORIDA	ADAL CHILD DEVELOPMENT	BLDG. & REPAIR CHILD DEVEL	CENTER BLDG. 90353	MECHANICAL DETAILS	
				NONDRON	
DRAWN BY:	DAT DES				יוו ווררט, ו ר

SHEET NO: 84 of 110



- 3/4" CHAMFER, ALL EXPOSED CORNERS, TYP

*COORDINATE SIZE & LOCATION PER SHOP

VAV AHU SEQUENCE OF OPERATION

STARTING AND STOPPING OF EQUIPMENT SHALL BE ACCOMPLISHED THROUGH A "HAND-OFF-AUTO" SWITCH. AN ALARM SHALL BE POSTED TO THE DDC SYSTEM ANY TIME THE HOA SWITCH IS INDEXED TO THE "HAND" OR "OFF" POSITIONS. WITH THE HOA SWITCH IN THE "AUTO" POSITION, THE UNIT SHALL BE STARTED AUTOMATICALLY BY THE DDC SYSTEM AND ALL CONTROLS ACTIVATED SUBJECT TO FIRE ALARM RELAY, SAFETIES AND OVERLOADS.

OCCUPIED MODE:

THE OA AND RA MOTORIZED DAMPERS SHALL OPEN TO THE BALANCED POSITION. THE AHU FAN SHALL OPERATE CONTINUOUSLY WITHIN THE SPECIFIED SETPOINTS. SEE AHU SCHEDULE.

UNOCCUPIED MODE

THE OA MOTORIZED DAMPER SHALL BE CLOSED. THE AHU RA MOTORIZED DAMPER SHALL OPEN. THE AHU SHALL OPERATE ONLY AS NECESSARY TO SATISFY SPACE TEMPERATURE OR HUMIDITY SETPOINTS.

COOLING COIL FREEZE PROTECTION:

THE DDC SYSTEM SHALL CLOSE THE OUTSIDE AIR DAMPER ANYTIME THE AHU COOLING COIL ENTERING AIR TEMPERATURE FALLS BELOW 40°F FOR LONGER THAN 5 MINUTES. THE LOW LIMIT FREEZE STAT SHALL STOP THE AHU FAN MOTOR ANYTIME THE COOLING COIL ENTERING AIR TEMPERATURE FALLS BELOW 35°F.

DISCHARGE TEMPERATURE CONTROL:

THE DDC SYSTEM SHALL MODULATE THE AHU THREE-WAY CHILLED WATER VALVE AS REQUIRED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT SET POINT (SEE SCHEDULE).

AHU FAN SPEED CONTROL:

THE ADJUSTABLE VARIABLE FREQUENCY DRIVE SHALL MODULATE FAN SPEED AS REQUIRED TO MAINTAIN A CONSTANT STATIC PRESSURE AT THE DUCT MOUNTED STATIC PRESSURE SENSOR. THE DUCT STATIC PRESSURE SET POINT SHALL BE SET AT THE MINIMUM REQUIRED FOR TEST AND BALANCE. WHEN NONE OF THE ATU'S ASSOCIATED WITH THE AHU HAVE BEEN IN FULL COOLING MODE FOR FIVE MINUTES, THE DDC SHALL RESET THE DUCT STATIC PRESSURE DOWN 0.15". AHU AIRFLOW SHALL BE LIMITED TO SCHEDULED MAXIMUM AND MINIMUM VALUES. AHU FAN SHALL RUN CONTINUOUSLY.

OUTSIDE AIR CONTROL:

THE DDC SYSTEM, WITH OA DUCT MOUNTED FLOW MEASURING STATION, SHALL MODULATE RA DAMPER AS REQUIRED TO MAINTAIN OUTSIDE AIR QUANTITY AT SET POINT REGARDLESS OF THE TOTAL AIR FLOW OF THE AIR HANDLING UNIT DURING OCCUPIED TIMES. READOUT OF OUTSIDE AIR QUANTITY SHALL BE IN CFM. UPON FAILURE, THE OA DAMPER SHALL BE NORMALLY CLOSED. WHENEVER THE AHU OPERATES DURING UNOCCUPIED MODE, THE OA DAMPER SHALL REMAIN CLOSED.

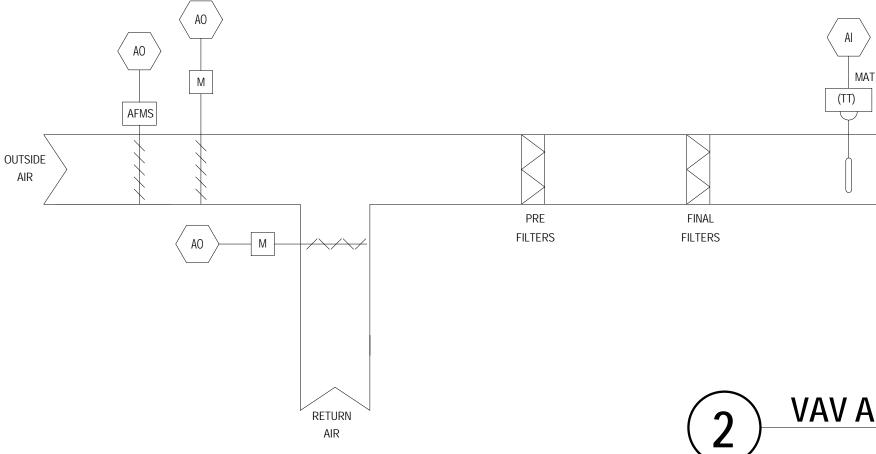
ALARMS:

THE FOLLOWING SOFTWARE ALARMS SHALL BE GENERATED AND DISPLAYED AT THE OPERATOR'S WORKSTATION:

- 1. HIGH SUPPLY AIR TEMP (5°F GREATER THAN CURRENT SETPOINT)
- 2. LOW SUPPLY AIR TEMP (5° F LESS THAN CURRENT SETPOINT)
- 3. LOW MIXED AIR TEMP (BELOW 40°F) FREEZE PROTECTION
- 4. BAD SUPPLY TEMP SENSOR (GREATER THAN 180°F OR LESS THAN -20°F)
- 5. BAD MIXED AIR TEMP SENSOR (GREATER THAN 180°F OR LESS THAN -20°F) 6. AHU SUPPLY FAN ALARM (COMMAND AND STATUS DO NOT MATCH)
- 7. VFD FAULT (STATUS INPUT FROM VFD)
- 8. AIR FILTER DIFFERENTIAL PRESSURE SENSOR (DIRTY FILTER)

SPACE DEHUMIDIFICATION:

WHEN THE HOA SWITCH IS IN THE "AUTO" POSITION AND THE DDC SYSTEM HAS THE BUILDING EITHER "OCCUPIED" OR "UNOCCUPIED", AND THE RELATIVE HUMIDITY IN ANY ZONE RISES ABOVE SETPOINT (60% RH, ADJUSTABLE), THEN THE CONTROLS SHALL BE OVERRIDDEN AND THE SUPPLY AIR FAN AND ALL AIR TERMINAL UNITS SHALL BE ENERGIZED. THE CHILLED WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN A CONSTANT LEAVING AIR TEMPERATURE AS INDICATED IN THE AHU SCHEDULE AND THE AIR TERMINAL UNITS SHALL MODULATE THEIR SUPPLY AIR AND THEIR HEATING WATER CONTROL VALVES TO MAINTAIN THE ZONE TEMPERATURE SET POINT UNTIL THE ZONE RELATIVE HUMIDITY IS SATISFIED (50% RH, ADJUSTABLE).



ATU SEQUENCE OF OPERATION

CONTROL SEQUENCE FOR EXISTING ATU'S TO REMAIN AS IS PER ORIGINAL DESIGN.

THE FOLLOWING SEQUENCE APPLIES TO ALL NEW ATU'S.

EACH AIR TERMINAL UNIT SHALL BE PROVIDED WITH A UNIT CONTROL MODULE (UCM). THE UCM SHALL BE FACTORY OR FIELD MOUNTED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO EACH AIR TERMINAL UNIT. EACH ATU SHALL BE PROVIDED WITH A FACTORY MOUNTED CONTROLS TRANSFORMER.

UNIT AIRFLOW SHALL BE MONITORED BY AN INTEGRAL, MULTIPLE POINT, AVERAGING FLOW SENSING DEVICE AND A TRANSDUCER TO MAINTAIN AIRFLOW WITHIN 5% OF RATED CFM DOWN TO A MINIMUM CFM AS SCHEDULED, INDEPENDENT OF CHANGES IN SYSTEM STATIC PRESSURE.

COOLING MODE:

THE UCM SHALL MONITOR THE ZONE TEMPERATURE AGAINST ITS SET POINT AND MODULATE THE DAMPER TO MEET THE ZONE SETPOINT. IF THE ATU CALLS FOR FULL COOLING AND CANNOT REACH MAXIMUM AIRFLOW FOR FIVE MINUTES, THE DDC SYSTEM SHALL RESET THE AHU STATIC PRESSURE UP 0.15".

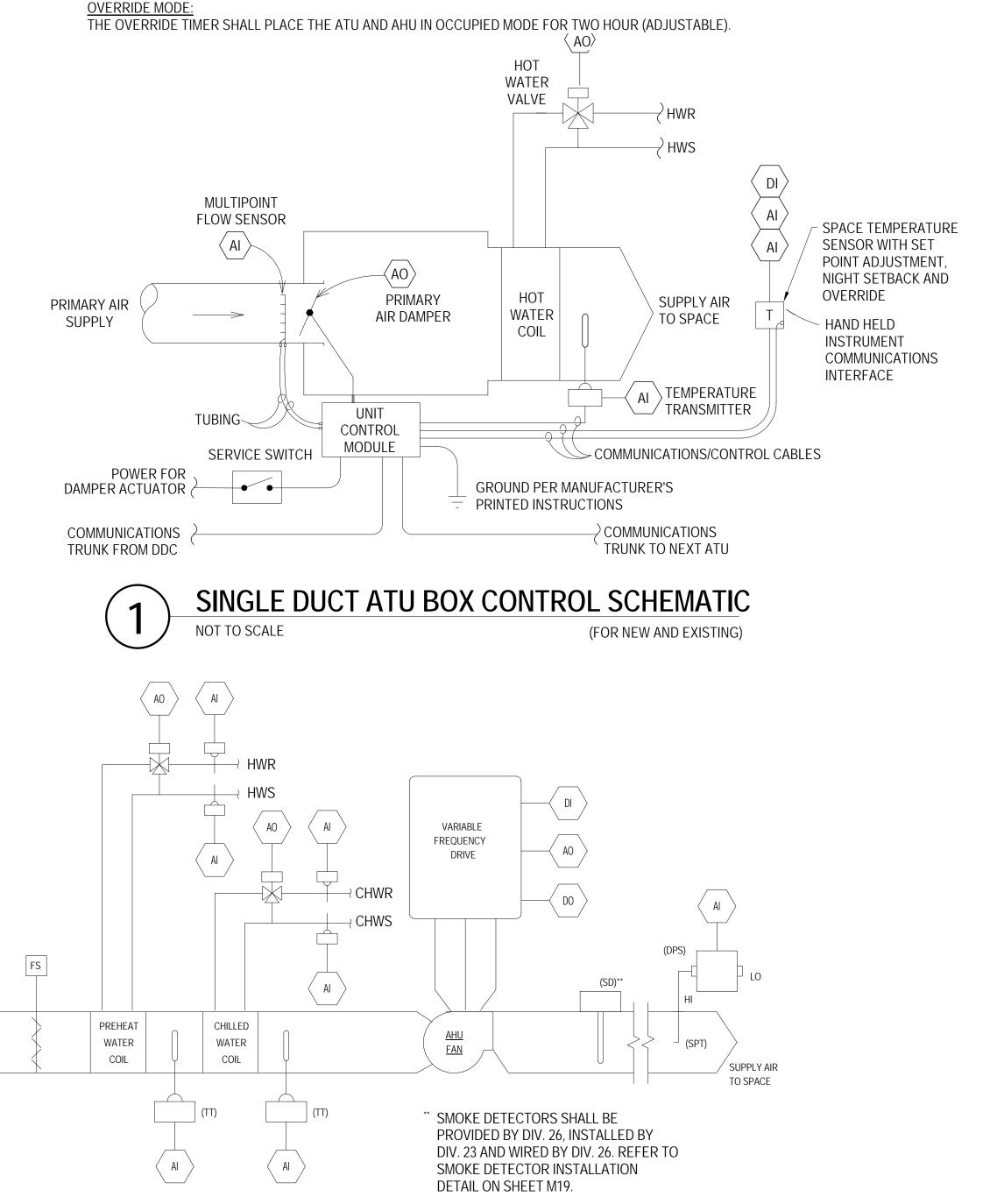
HEATING MODE:

IF THE DAMPER IS AT MINIMUM AND THE TEMPERATURE IN THE SPACE CONTINUES TO FALL, THE DAMPER SHALL MODULATE TO THE HEATING AIRFLOW (SEE ATU SCHEDULE) AND THE ELECTRIC HEAT SHALL MODULATE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.

THE ZONE TEMPERATURE SENSOR WITH SET POINT ADJUSTMENT SHALL BE PROVIDED WITH NIGHT SETBACK OVERRIDE, AND A COMMUNICATIONS JACK. ZONE TEMPERATURE SET POINT ADJUSTMENTS SHALL BE LIMITED BY THE DDC TO +/- 3°F OF THE PROGRAMMED VALUE.

OCCUPIED/UNOCCUPIED MODE:

CONTROLS CONTRACTOR SHALL CONSULT WITH CONTRACTING OFFICER FOR EXACT SPACE TEMPERATURE SETPOINTS



VAV AHU CONTROL DIAGRAM



COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 WILLIAM JOSEPH JONES P.E.

FLORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138

DDC SYSTEM GENERAL NOTES

- 1. THE CONTRACTOR SHALL PROVIDE A COMPLETE NEW DDC SYSTEM TO PERFORM THE INDICATED SEQUENCES, ALL OTHER FUNCTIONS REQUIRED BY THE CONTRACT DOCUMENTS, AND ALL OTHER FUNCTIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. THE EXISTING DDC SYSTEM SHALL REMAIN IN SERVICE TO PROVIDE OPERATION OF THE OCCUPIED FACILITY AND SEQUENCES UNTIL THE NEW SYSTEM IS INSTALLED AND OPERATIONAL. ONCE THE NEW SYSTEM IS OPERATIONAL, THE EXISTING SYSTM SHALL BE REMOVED COMPLETE.
- ALL SEQUENCES ARE SUBJECT TO SAFETIES. DDC CONTRACTOR SHALL PROVIDE ALL NECESSARY AND CUSTOMARY SAFETIES.
 ALL WIDING SHALL RE IN CONDUIT. ALL CONDUIT SHALL RE INSTALLED BY DIV. 24 IN ACCORDANCE.
- ALL WIRING SHALL BE IN CONDUIT. ALL CONDUIT SHALL BE INSTALLED BY DIV. 26 IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS, REQUIREMENTS FOR 120 VAC CIRCUITS. THE DDC CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THIS WORK WITH DIV. 26.
 ALL WELLS SHALL BE 216 STAINLESS STEEL AND SHALL BE INSTALLED IN NEW TUPEPOLETS. IN
- ALL WELLS SHALL BE 316 STAINLESS STEEL AND SHALL BE INSTALLED IN NEW THREDOLETS. IN CHILLED WATER PIPING PROVIDE NEW WELLS WITH EXTENDED NECK TO SUIT INSULATION THICKNESS.
- THE DDC CONTRACTOR IS CO-RESPONSIBLE, ALONG WITH THE TAB CONTRACTOR FOR COORDINATING THE PROPER INSTALLATION OF WELLS, PRESSURE TAPS, AND P/T TAPS IN ALL LOCATIONS INDICATED AND OTHERWISE AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- 6. THE DDC CONTRACTOR AND THE TAB CONTRACTOR SHALL UTILIZE P/T'S TO CALIBRATE
- INSTRUMENTS TO CERTIFIED PRESSURE GAGES, PRESSURE METERS AND THERMOMETERS.
 7. CONDUIT SHALL BE RUN PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A FIRST CLASS WORKMANSHIP LIKE MANNER.
- THE CONTROLS CONTRACTOR SHALL PROVIDE ALL POWER REQUIREMENTS AND CONTROL VOLTAGE TRANSFORMERS AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM. COORDINATE WITH ELECTRICAL CONTRACTOR FOR TRANSFORMER LOCATIONS AND REQUIREMENTS.
 ALL MOTORIZED DAMPERS INDICATED IN CONTROLS SHALL BE 24V. COORDINATE DAMPER
- INSTALLATION WITH MECHANICAL SUB-CONTRACTOR.
 10. PROVIDE DETAILED CONTROL SUBMITTALS FOR EACH PIECE OF EQUIPMENT VERIFYING THE SEQUENCE OF OPERATION AND INCLUDING WIRING DIAGRAMS, CONTROL PANEL LAYOUT AND WIRING AND SUBMITTALS FOR ALL CONTROL EQUIPMENT (I.E., TEMPERATURE SENSORS, MOTORIZED DAMPERS, ETC.)
- 11. COORDINATE INTEGRATION OF BMS INTO DDC INTERFACE VIA BACNET. PROVIDE ALL BMS ALARMS, SAFETIES, SETPOINTS, ETC.
- 12. REFER TO SHEET M1 FOR DESIGN TEMPERATURE SETPOINTS.
 13. ALARM FOR HEAT TRACE TO BE CONNECTED TO THE DDC SYSTEM.

EMERGENCY AIR DISTRIBUTION SHUTOFF

EXISTING HVAC SHUTOFF SHALL BE MAINTAINED UNTIL NEW SYSTEM IS INSTALLED AND FUNCTIONAL.

AN EMERGENCY SHUTOFF SWITCH SHALL BE PROVIDED AS INDICATED ON SHEET M8 THAT SHALL SHUTDOWN THE ALL AIR DISTRIBUTION (SUPPLY, RETURN, OUTSIDE AIR, EXHAUST)THROUGHOUT THE ENTIRE BUILDING. A PLASTIC LAMINATE SIGN SHALL BE PROVIDED ADJACENT TO THE SWITCH WHICH READS "BUILDING VENTILATION SYSTEM EMERGENCY SHUTOFF SWITCH".

SUPERVISE THE EMERGENCY SHUTOFF SWITCH BY ROUTING WIRE THROUGH THE FIRE ALARM CONTROL/MNS PANEL USING MONITOR MODULE AND CONTROL MODULES(S) TO ACTUATE TOTAL HVAC SHUTDOWN. COORDINATE CONTROLS INTERFACE WITH FIRE ALARM, AS REQUIRED, TO FACILITATE HVAC SHUTDOWN.

EXHAUST FANS AND SUPPLY FANS

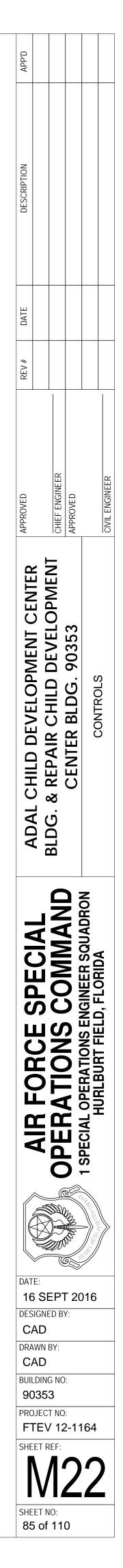
FAN WITH INTERLOCKS

FANS SHALL BE INTERLOCKED WITH THE INDICATED SUPPLY FAN WITH UL LISTED INTERLOCKS SUCH THAT WHENEVER THE SUPPLY FAN IS OPERATING, THE INDICATED EXHAUST FAN IS ALSO OPERATING. SEE FAN SCHEDULE.

ALL FANS AND AIR HANDLING UNITS SHALL SHUTDOWN ON A SIGNAL FROM THE FIRE ALARM CONTROL PANEL.

LOW LEAKAGE MOTORIZED DAMPERS

- THE CONTROLS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MOTORIZED DAMPERS AND DAMPER ACTUATORS TO THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING DAMPERS, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR POWER TO DAMPERS AND CONTROLS CONTRACTOR IS RESPONSIBLE FOR CONTROL WIRING.
 PROVIDE LOW LEAKAGE MOTORIZED DAMPER AT ALL OUTDOOR AIR INTAKE, AND RETURN AIR
- LOCATIONS.
 DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 3 CFM/SF WITH A DIFFERENTIAL PRESSURE OF 1" IN W.G. ACROSS THE DAMPER.
- 4. THE OUTSIDE AIR DAMPER SHALL BE NORMALLY CLOSED.
- 5. THE DAMPER ACTUATOR SHALL BE LOCATED OUTSIDE THE DUCTWORK. COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTOR.
- 6. PROVIDE FACTORY INSTALLED DAMPER POSITION INDICATION SWITCH PACKAGE AND FACTORY MOUNTED DAMPER ACTUATORS. THE SWITCH PACKAGE SHALL INCLUDE TWO POSITION INDICATION SWITCHES LINKED DIRECTLY TO THE DAMPER BLADE TO PROVIDE FULL OPEN AND FULL CLOSED DAMPER BLADE POSITIONS. THE SWITCH PACKAGE SHALL BE CAPABLE OF INTERFACING WITH THE DDC CONTROL SYSTEM FOR DETERMINATION OF DAMPER STATUS.



SEQUENCE OF OPERATIONS CHILLED WATER SYSTEM

SYSTEM DESCRIPTION

THE CHILLED WATER SYSTEM CONSISTS OF THE FOLLOWING: ONE (1) AIR COOLED CHILLER (ACC-2)

ONE (1) PRIMARY CHILLED WATER PUMP AS PART OF CHILLER PACKAGE

STARTING AND STOPPING OF EQUIPMENT SHALL BE ACCOMPLISHED THRU A "HAND-OFF-AUTO" SWITCH. AN ALARM SHALL BE POSTED TO THE DDC SYSTEM ANYTIME THE CHW SYSTEM HOA SWITCH IS INDEXED TO THE "HAND" OR "OFF" POSITIONS. WITH THE CHW SYSTEM HOA SWITCH IN THE "AUTO" POSITION, THE CHILLED WATER SYSTEM SHALL BE STARTED AUTOMATICALLY BY THE DDC SYSTEM AND ALL CONTROLS ACTIVATED SUBJECT TO SAFETIES AND OVERLOADS.

THE CHILLED WATER SYSTEM SHALL BE STARTED AUTOMATICALLY WHENEVER ANY OF THE FOLLOWING CONDITIONS OCCUR: THE OUTSIDE TEMPERATURE IS ABOVE 60 DEGREES F (ADJ.) OR ABOVE DURING THE OCCUPIED PERIOD. ANY SPACE TEMPERATURE IS ABOVE 75 DEGREES F DURING THE OCCUPIED PERIOD OR ABOVE 85 DEGREES F DURING THE UNOCCUPIED B. PERIOD (ADJ.).

C. THE OUTSIDE AIR TEMPERATURE IS LESS THAN A 35 DEGREES F (ADJ.). COORDINATE CONTROLS REQUIREMENT WITH CHILLER MFR.

CHILLER CONTROL SUMMARY

UPON CHILLED WATER SYSTEM STARTUP, THE DDC SYSTEM SHALL ENABLE CHILLER ACC-2 BASED ON BUILDING LOAD AND THE CHILLER SHALL OPERATE THROUGH ITS INTERNAL CONTROLS TO MAINTAIN CHILLED WATER SUPPLY TEMPERATURE AT SETPOINT OF 44°F (ADJ.). UPON A CALL FOR COOLING, THE DDC SHALL START THE CHILLED WATER PUMP. UPON PROOF OF FLOW AS SENSED BY THE FLOW SWITCH, THE CHILLER SHALL OPERATE TO MAINTAIN LEAVING WATER AT SETPOINT. THE DDC SYSTEM SHALL MONITOR ALARM STATUS OF THE CHILLER AND POST AN ALARM IN THE EVENT A CHILLER IS ENABLED AND NOT OPERATING. THE DDC SHALL MONITOR ALL POINTS AVAILABLE THROUGH THE FACTORY CHILLER MICROPROCESSOR CONTROL.

GENERAL:

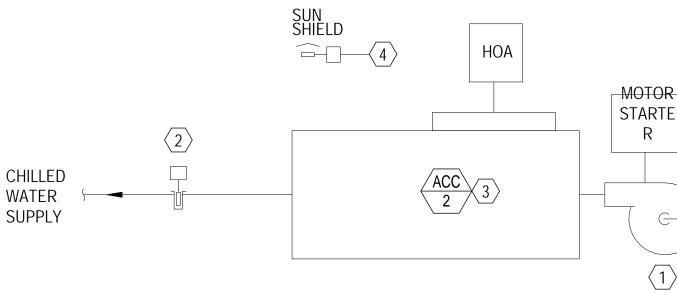
THE DDC PROGRAM SHALL BE FULLY EDITABLE AND SET-UP VIA POINT AND CLICK ON A STANDARD WINDOWS SCREEN. IT SHALL NOT REQUIRE SPECIAL SOFTWARE TOOLS OR A BAS TECHNICIAN TO OPERATE AND MODIFY CHILLER SEQUENCING CONTROL

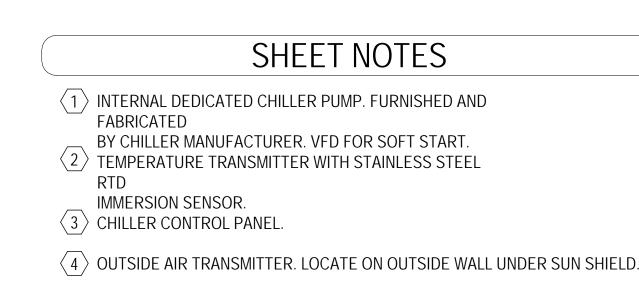
THE DDC SHALL PERFORM THE FOLLOWING CONTROL STRATEGIES:

- CHILLER PLANT SYSTEM SCHEDULING COLOR GRAPHIC BASED CHILLER PLANT STATUS SCREENS
- COLOR GRAPHIC BASED CHILLER STATUS SCREENS
- SYSTEM AND CHILLER DIAGNOSTIC MESSAGES
- SYSTEM AND CHILLER REPORTS

CHILLER SYSTEM OPERATOR INTERFACE - DDC APPLICATION OPERATIONAL STATUS SCREEN TO INCLUDE:

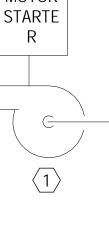
- CHILLER SYSTEM STATUS (OFF/SOFT START/NORMAL/AMBIENT LOCKOUT/SHUTDOWN IN PROGRESS)
- CHILLER PLANT SUPPLY WATER SETPOINT
- CHILLED WATER SYSTEM SUPPLY WATER TEMPERATURE
- CHILLED WATER SYSTEM RETURN WATER TEMPERATURE D CHILLER FAILURE RESET
- SYSTEM PUMP FAILURE RESET

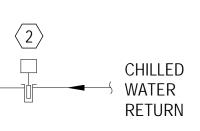


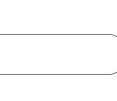


CHILLED WATER SYSTEM CONTROL SCHEMATIC NOT TO SCALE

SEQUENCE OF OPERATIONS HEATING WATER SYSTEM







SYSTEM DESCRIPTION

- THE HOT WATER SYSTEM CONSISTS OF THE FOLLOWING: ONE (1) CONDENSING BOILER (B-1)
- ONE (1) SECONDARY HOT WATER PUMP (HWP-1) ONE (1) PRIMARY DEDICATED CONSTANT VOLUME PUMP (BP-1)

GENERAL

UNDER THE FOLLOWING CONDITIONS, ELSE THE SYSTEM SHALL BE DISABLED: SCHEDULED OCCUPIED PERIOD WITH OUTSIDE AIR TEMPERATURE LESS THAN 60 DEG. F. WHENEVER ANY ZONE DEMANDS HOT WATER DURING OCCUPIED OR UNOCCUPIED PERIODS (REGARDLESS OF OUTSIDE AIR TEMPERATURE)

FOR BUILDING TEMPERATURE OR HUMIDITY CONTROL.

DISABLED, THE HW PUMP SHALL NOT RUN. STARTING AND STOPPING OF THE BOILER AND THE ASSOCIATED BOILER CIRCULATING PRIMARY PUMP SHALL BE ACCOMPLISHED AUTOMATICALLY THROUGH THE BOILER ON-BOARD CONTROLS.

WHEN THE BUILDING LOOP SUPPLY HOT WATER TEMPERATURE DROPS BELOW SETPOINT, THE DDC SHALL SEND A SIGNAL TO THE BOILER REQUESTING A START COMMAND AND THE BOILER SHALL START THE CIRCULATION PUMP AND OPERATE SUBJECT TO ITS' ON-BOARD CONTROLS AND ALARMS TO MAINTAIN A CONSTANT HOT WATER LOOP SUPPLY TEMPERATURE.

SECONDARY HOT WATER LOOP SHUTDOWN WHEN THE HOT WATER SYSTEM IS DISABLED, THE HOT WATER PUMP SHALL BE OFF

SECONDARY HOT WATER PUMP START/STOP

THE DDC CONTROLLER SHALL START THE HOT WATER PUMP THROUGH A THRU A "HAND-OFF-AUTO" SWITCH.

SECONDARY HOT WATER PUMP STATUS THE DDC CONTROLLER SHALL DETECT HOT WATER PUMP RUN STATUS BY A CURRENT SWITCH AT THE STARTER

SECONDARY HOT WATER PUMP FAILURE

IF THE PUMP START/STOP RELAY IS ENABLED AND THE CURRENT SWITCH STATUS IS OFF FOR MORE THAN 30 SECONDS (ADJ.), THE DDC CONTROLLER SHALL ANNUNCIATE A HOT WATER PUMP FAILURE ALARM TO THE DDC WORKSTATION. ONCE THE PROBLEM HAS BEEN CORRECTED AND THE OPERATOR IS ABLE TO CLEAR THE ALARM FAILURE FROM THE BAS CONTROLLER, THE BAS SHALL RE-ENABLE THE PUMP.

BOILER CONTROL

THE BOILER SHALL, THROUGH ITS MANUFACTURER PROVIDED INTERNAL CONTROLS, CYCLE AS REQUIRED TO MAINTAIN THE OUTLET TEMPERATURE OF THE HOT WATER PLANT WHILE MAINTAINING THE HIGHEST COMBUSTION EFFICIENCY. THE BOILER CONTROLS SHALL BE CAPABLE OF INTERFACE TO DDC FOR SYSTEM START/STOP AND ALARMS.

PRIMARY BOILER PUMP

PUMP SHALL OPERATE WHEN BOILER IS ENABLED AND SHALL MAINTAIN CONSTANT FLOW THROUGH BOILER. THE DDC SYSTEM SHALL DISABLE BOILER IF THE BOILER PUMP IS NOT ENERGIZE OR IF THE PUMP IS ENERGIZED AND NOT OPERATING AND AN ALARM SHALL BE POSTED AT THE OPERATOR WORKSTATION. BOILER PUMP SHALL BE CONTROLLED VIA BOILER ON-BOARD CONTROLS.

HOT WATER RESET CONTROL

THE BOILER SYSTEM THROUGH ITS INTERNAL CONTROL SHALL RESET THE TEMPERATURE OF THE HOT WATER SUPPLY TO THE BUILDING BASED ON OUTSIDE TEMPERATURE (SEE RESET SCHEDULE).

THE RESET SCHEDULE FOR THE HOT WATER SUPPLY TEMPERATURE WILL BE AS FOLLOWS:

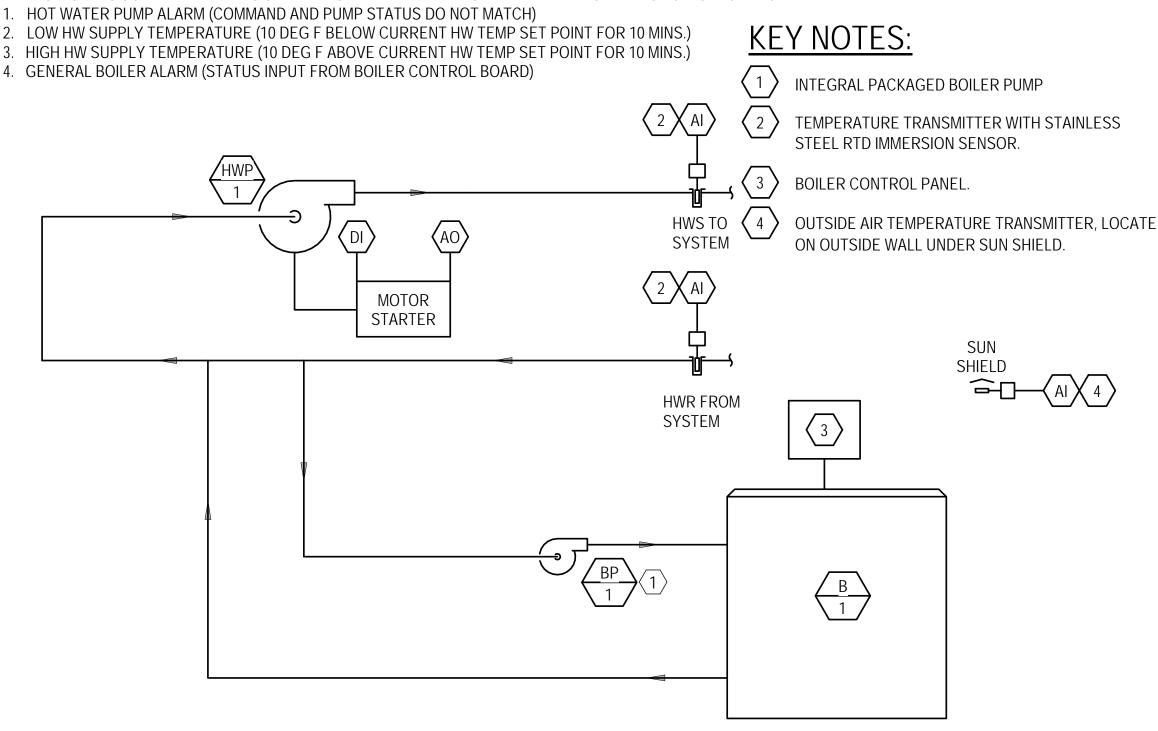
<u>OAT</u>	HOT WATER SUPPLY SETPOINT
40°F (ADJ.)	180°F (ADJ.)
60°F (ADJ.)	130°F (ADJ.)

TYPICAL BOILER CONTROLS POINTS LIST BY THE BOILER MFR TO BE INTERFACED WITH DDC SYSTEM ENABLE/DISABLE

- OA RESET SETPOINT
- REMOTE MONITORING HW SETPOINT ALARM/FAILURE STATUS

- ALARMS: THE FOLLOWING SOFTWARE ALARMS SHALL BE GENERATED AND DISPLAYED AT THE OPERATOR'S WORKSTATION:

- 4. GENERAL BOILER ALARM (STATUS INPUT FROM BOILER CONTROL BOARD)







MECHANICAL ELECTRICAL STRUCTURAL COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 01 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 WILLIAM JOSEPH JONES P.E. LORIDA LICENSE NUMBER 58080 SCG PROJECT: 2015-138

- THE CONDENSING BOILER SYSTEM SHALL BE CONNECTED TO THE DDC FOR ENABLE/DISABLE COMMANDS. THE SYSTEM SHALL BE ENABLED
- WHEN ENABLED, THE SECONDARY HW PUMP SHALL OPERATE TO PROVIDE CONSTANT FLOW THROUGH THE BUILDING HOT WATER LOOP. WHEN

HOT WATER SYSTEM CONTROL SCHEMATIC

DEVELOPMENT 0 DEVELOPMENT 0 90353 EVELOPI CHILD BLDG. HILD DE REPAIR (CENTER S & ADA BLDG SPE =ORCE \TIONS OPER/ 1 SPECIAL C 16 SEPT 2016 DESIGNED BY: CAD DRAWN BY: CAD BUILDING NO: 90353 PROJECT NO: FTEV 12-1164 SHEET REF: SHEET NO:

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ELECTRICAL LEGEND

GENERAL ELECTRICAL DEVICES:

- SINGLE POLE LIGHTING SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:
 - 3 THREE-WAY LIGHTING SWITCH.
 - 4 FOUR-WAY LIGHTING SWITCH P - PASSIVE INFARED MOTION SENSOR WALL SWITCH.
 - LV LOW VOLTAGE LIGHT SWITCH.
 - D INCANDESCENT SLIDE DIMMER SWITCH WITH PRESET (LUTRON NT-1503P-CLA).
 - DF FLOURESCENT SLIDE DIMMER SWITCH WITH PRESET (LUTRON NTF-103P-277-CLA). DLV - LOW VOLTAGE SLIDE DIMMER SWITCH WITH PRESET (LUTRON NTLV-600-CLA).
 - M MANUAL MOTOR STARTER. MOUNT 80" AFF. PROVIDE PHENOLIC LABEL.
 - a,b LETTER INDICATES ZONE OF CONTROL.
 - TD TIME DELAY LIGHT SWITCH FOR DELAYED OFF TO EXHAUST FAN.
- \Rightarrow DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS:
 - G GROUND FAULT CIRCUIT INTERRUPTER TYPE
 - WP DIECAST WEATHERPROOF COVERPLATE. IN EXTERIOR LOCATIONS MOUNT 54" AFF
 - EWC CONCEAL RECEPTACLE BEHIND EWC (COORDINATE WITH DIVISION 23)
 - D COORDINATE RECEPTACLE LOCATION WITH DATA OUTLET. TV - COORDINATE RECEPTACLE LOCATION WITH A/V OUTLET.
 - 54" NEMA 5-20R TAMPER RESISTANT RECEPTACLE MOUNTED @ 54" AFF.
- DUPLEX RECEPTACLE MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. ORIENT WITH LONG AXIS HORIZONTAL ABOVE COUNTERS.
- SPECIAL NEMA TYPE RECEPTACLE. VERIFY WITH EQUIPMENT BEING SUPPLIED. MOUNTED 10" A.F.F., -(UNLESS NOTED OTHERWISE.
- QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED 18" AFF. UNLESS NOTED OTHERWISE \oplus

LIGHTING CONTROL EQUIPMENT:

- PP POWER PACK. SEE DETAILS.
- (DT)LINE VOLTAGE CEILING MOUNTED 360° DUAL TECHNOLOGY SENSOR. SEE DETAILS.
- DT CORNER MOUNTED DUAL TECHNOLOGY SENSOR. SEE DETAILS.

DISTRIBUTION & POWER EQUIPMENT:

- PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
- VARIABLE FREQUENCY DRIVE W/INTEGRAL DISCONNECT. PROVIDED BY DIVISION 15, INSTALLED BY DIVISION 16, VFD
- MAGNETIC MOTOR STARTER. SIZE AS REQUIRED. MOUNT IN SERVING ELECTRICAL ROOM UNLESS SPECIFICALLY NOTED OTHERWISE.
- COMBINATION MAGNETIC MOTOR STARTER DISCONNECT. SIZE AS REQUIRED.
- NON-FUSED HEAVY DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.
- P POWER RELAY. PROVIDE WITH NEMA 1 ENCLOSURE. MOUNT IN LOCAL SERVING ELECTRICAL ROOM.

MISCELLANEOUS EQUIPMENT:

- MOTOR FURNISHED BY OTHERS.
- J JUNCTION BOX.
- UNLESS INDICATED OTHERWISE PROVIDE GROUNDING BUSBAR (HARGER GBI SERIES) WITH #6AWG IN CONDUIT FROM BUSBAR TO MAIN ELECTRICAL GROUND AT MAIN PANEL. MOUNT BUSBAR 12" AFF.

	LIGHT FIXTURE SCHEDULE									
		CATALOG NO.	l	LAMPS	S	TOTAL				
TYPE	MANUFACTURER	MODEL	TYPE	#	WATTS	WATTS	VOLTAGE	MOUNTING	NOTES	
L2A	LITHONIA LIGHTING	2TL4 30L FW A19 EZ1 LP835 OR APPROVED EQUAL	LED 35K	N/A	25 W	25 W	120 V	RECESSED	PROVIDE SOLID STATE ELECTRONIC DRIVER. A19 LENS 0.156"THICK. MITRED DOOR FRAMES WITH SPRING LOADED LATCHES AND PAINTED AFTER FAB	
L3A	LITHONIA LIGHTING	2TL4 48L FW A19 EZ1 LP835 OR APPROVED EQUAL	LED 35K	N/A	40 W	40 W	120 V	RECESSED	PROVIDE SOLID STATE ELECTRONIC DRIVER. A19 LENS 0.156"THICK. MITRED DOOR FRAMES WITH SPRING LOADED LATCHES AND PAINTED AFTER FAB	
L2A2	LITHONIA LIGHTING	2TL2 20L FW A19 EZ1 LP835 OR APPROVED EQUAL	LED 35K	N/A	18 W	18 W	120 V	RECESSED	PROVIDE SOLID STATE ELECTRONIC DRIVER. A19 LENS 0.156" THICK. MITRED DOOR FRAMES WITH SPRING LOADED LATCHES AND PAINTED AFTER FAB.	
L2I	LITHONIA LIGHTING	ZL1D L48 5000LM FST MVOLT 35K 80CRI WH OR APPROVED EQUAL	LED 35K	N/A	32 W	61 W	120 V	SUSPENDED	PROVIDE WITH DIFFUSE SNAPON DROP LENS	
LD1	GOTHAM LIGHTING	EVO 35/10 6AR MWD LSS MVOLT EZ1 OR APPROVED EQUAL	LED 35K	N/A	18 W	36 W	120 V	RECESSED	PROVIDE SOLID STATE ELECTRONIC DRIVER. SPECULAR SPUN ALUMINUM REFLECTOR. SHALLOW DEPTH WHITE FLANGE. INTEGRAL MOUNTING CHANNELS	
EX1	LITHONIA LIGHTING	LES-R-120/277-ELNSD OR APPROVED EQUAL	LED	N/A	8 W	8 W	120 V	WALL OR CEILING INDICATED	PROVIDE EMERGENCY NICAD BATTERY BACKUP. ARROWS AS PER PLANS. DIE CAST ALUMINUM HOUSING WITH BRUSHED ALUMINUM FACEPLATE. SELF DIAGNOSTICS WITH LEDS. DOUBLE FACE AS INDICATED ON PLANS.	
LB	LITHONIA LIGHTING	WST LED 1 10A70040K SR3 120 PE SF ELCW DDBXD OR APPROVED EQUAL	LED 40K	N/A	24 W	24 W	120 V	FASCIA @ 12'-0" AFG	UL LISTED FOR WET LOCATION. PROVIDE WITH 1100 LUMEN MINIMUM EMERGENCY BATTERY DRIVER.	

NOTE: LIGHTING FIXTURES WITH HALF FILLED CENTERS SHALL BE PROVIDED WITH 1100 LUMEN MINIMUM EMERGENCY BATTERY DRIVER.

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FIRE ALA	ARM SYSTEM:	
F	FIRE ALARM SYSTEM ADDRESSABLE DUAL ACTION MANUAL PULL STATION. MOUNT 48" TO CENTER OF DEVICE.	
	FIRE ALARM SYSTEM AUDIO-VISUAL ALARM (75 CANDELA STROBE). MOUNT 80" AFF TO BOTTOM OF DEVICE OR 6" FROM THE BOTTOM OF CEILING, WHICHEVER IS LOWER. 110 SUBSCRIPT INDICATES 110 CANDELA STROBE. ALL STROBES IN COMMON AREAS OR CORRIDORS SHALL BE SYNCHRONIZED. IN CORRIDORS, 15/75 CANDELA STROBE SHALL BE ACCEPTABLE. MASS NOTIFICATION SYSTEM STROBE APPLIANCE (30 CANDELA STROBE UNO) STROBE SHALL BE MOUNTED ADJACENT TO FIRE ALARM SYSTEM AUDIO-VISUAL ALARM. MOUNT 80" AFF TO BOTTOM OF DEVICE OR 6" FROM THE BOTTOM OF CEILING, WHICHEVER IS LOWER.	(
\bigcirc	FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC DUCT MOUNTED SAMPLE TUBE TYPE SMOKE DETECTOR. PROVIDED BY DIV. 26, INSTALLED BY DIV. 23 AND CONNECTED BY DIV. 26.	
\widehat{R}	FIRE ALARM SYSTEM ADDRESSABLE AIR HANDLING UNIT SHUT-DOWN RELAY. (UNLESS NOTED OTHERWISE) PROVIDE WITH POWER RELAY WHERE REQUIRED.	
FAC	MULTIPLEXED ADDRESSABLE FACP. BATTERY SUPPLIES TO BE MOUNTED WITH FACP. REMOTE BOOSTER TYPE BATTERY POWER SUPPLIES WILL NOT BE ALLOWED. FIELD VERIFY EXACT MOUNTING LOCATION.	
HA	ADDRESSABLE MONITOR MODULE CONNECTED TO HOOD ALARM SYSTEM.	
	SURGE SUPPRESSOR.	

OTHER:

	CIRCUIT RUN CONCEALED ABOVE	CEILING	OR IN WALL.					
	CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND.							
	NOMERUN TO PANELBOARD ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2#12, 1#12 GRD, 1/2"C. ## 3#12, 1#12 GRD, 1/2"C, ETC., PER NEC. MINIMUM SIZE ON HOMERUNS GREATER THAN 100 FEET SHALL BE #10 AWG.							
	EMERGENCY CIRCUIT RUN CONCE	EALED AB	OVE CEILING OR IN WALL.					
AHU 1	MECHANICAL EQUIPMENT IDENTIF	FICATION ⁻	TAG. SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.					
(F2A)	LIGHT FIXTURE IDENTIFICATION TAG. SEE LIGHT FIXTURE SCHEDULE FOR SYMBOLS & DETAILS.							
3	SHEET NOTE TAG.							
(1084)	ROOM NUMBER TAG.							
	LEADER.							
<u>ABBREVI</u>	ATIONS:							
AFF	ABOVE FINISHED FLOOR.	FMC	FLEXIBLE METAL CONDUIT					
С	CONDUIT.	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT					
EWC	ELECTRIC WATER COOLER	IMC	INTERMEDIATE METAL CONDUIT					
FACP		RGS	RIGID GALVANIZED STEEL CONDUIT					
WP	WEATHERPROOF.	-						
C/L		RNC	RIGID NON-METALLIC CONDUIT					
JB	JUNCTION BOX.	SCA	SHORT CIRCUIT AMPS					
MNT	MOUNTING HEIGHT AFF	kAIC	KILO-AMPERE INTERRUPTING CAPABILITY					
EMT	ELECTRICAL METALLIC TUBING							
		WSR	WITHSTAND RATING					
EDULE								



COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 0537 901 W. Garden St. Pensacola, FL 3250 P: 850-438-0050 F: 850-432-8631 TODD NICHOLSON P.E. FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138

GENERAL NOTES

1. ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE

CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED. CONDUIT ROUTINGS SHALL BE NORTH/SOUTH OR EAST/WEST.

ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH SUITABLE PHENOLIC NAMEPLATES.

4. FOR OTHER THAN LIGHTING FIXTURES, CATALOG NUMBERS AND MANUFACTURERS SHOWN ARE TO INDICATE DEVICE, QUALITY, AND TYPE OF ITEM DESIRED ONLY. ANY OTHER SUBSTITUTION ON THE LIGHTING FIXTURES MUST BE PREAPPROVED TWO WEEKS

5. THE CONDUIT MATERIAL SHALL BE AS FOLLOWS (SEE SPECIFICATION SECTIONS FOR EXCEPTIONS AND ADDITIONAL INFORMATION):

A) BELOW GRADE - RIGID NON-METALLIC (POWER & SITE LIGHTING ONLY). B) RISER FROM 36" BELOW GRADE - RIGID GALVANIZED STEEL C) CONCEALED RISER FROM 36" BELOW GRADE - RIGID NON-METALLIC (POWER ONLY). D) ABOVE GRADE SUBJECT TO PHYSICAL ABUSE - RIGID GALVANIZED STEEL OR INTERMEDIATE. E) ABOVE GRADE NOT SUBJECT TO PHYSICAL ABUSE OR WEATHER - ELECTRICAL METALLIC TUBING.

THE LOADS SHOWN FOR APPLIANCES AND EQUIPMENT ARE BASED ON DESIGN INFORMATION. THE CONTRACTOR SHALL VERIFY ALL APPLIANCE LOADS PRIOR TO RUNNING THE CIRCUIT. THE MINIMUM CIRCUIT REQUIREMENTS SHALL BE BASED ON THE APPLIANCE NAMEPLATE VALUE OR CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR APPLIANCE MODIFICATIONS BY THE CONTRACTOR.

COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC., WITH ARCHITECTURAL PLANS, ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN WORK.

8. WALL OUTLETS SHALL NOT BE INSTALLED BACK TO BACK.

F) INDOORS NOT SUBJECT TO PHYSICAL ABUSE - ELECTRICAL METALLIC TUBING.

PRIOR TO BID.

MATCH EXISTING.

CONTRACTOR SHALL SUPPLY ALL NECESSARY ELECTRICAL DEVICES IN THE CABINETS, INCLUDING BUT NOT LIMITED TO: RECEPTACLES: CONDUIT: JUNCTION BOXES: CONDUCTORS, DEVICE PLATES,

10. PROVIDE A 6'-0" MAXIMUM FLEXIBLE CONNECTION FROM EACH RECESSED LIGHTING FIXTURE TO JUNCTION BOX ABOVE CEILING.

11. VERIFY FLOOR RECEPTACLE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.

12. ALL FIRE ALARM CIRCUITS SHALL BE TERMINATED ON TERMINAL STRIPS. WIRE NUTS ARE PROHIBITED. ALL ANNUNCIATING AND INITIATING CIRCUITS ENTERING THE BUILDING AND AT THE FIRE ALARM PANEL SHALL BE PROVIDED WITH SUITABLE SURGE SUPPRESSORS (SEE SPECIFICATIONS).

13. VERIFY ALL POWER/DATA/PHONE RECEPTACLE ELEVATIONS LOCATED 7" CENTER LINE OVER COUNTERTOP WITH ARCHITECTURAL DETAILS PRIOR TO ROUGH-IN. LOCATE LONG AXIS HORIZONTALLY.

14. ALL CONDUITS NOT LOCATED UNDER SLAB SHALL HAVE A MINIMUM BURIAL DEPTH OF 36" UNLESS NOTED OTHERWISE.

15. ALL SAFETY SWITCH DISCONNECTS LOCATIONS IN MECHANICAL ROOMS SHALL HAVE 3'-0" MIN. OF WORKING SPACE IN FRONT OF DISCONNECT; COORDINATE WITH MECHANICAL CONTRACTOR AND EQUIPMENT LOCATIONS.

16. FINAL CONDUIT CONNECTIONS TO HEAT PUMPS, AIR HANDLERS, EXHAUST FANS, AND WATER HEATERS SHALL BE FLEXIBLE METAL (LIQUID TIGHT IN FLAMMABLE, OUTSIDE AND OTHER DAMP AND WET LOCATIONS).

17. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION AND SIZE OF EQUIPMENT WHICH ARE PROVIDED BY OTHERS AND CONNECTED BY ELECTRICAL.

18. RECEPTACLES, SWITCHES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS. ALL COVER PLATES SHALL **BE 302 STAINLESS STEEL.**

19. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING IN FOR SWITCHES.

20. CONDUITS LEAVING OR ENTERING BUILDING SHALL BE SEALED PER N.E.C. TO PREVENT ENTRANCE OF MOISTURE.

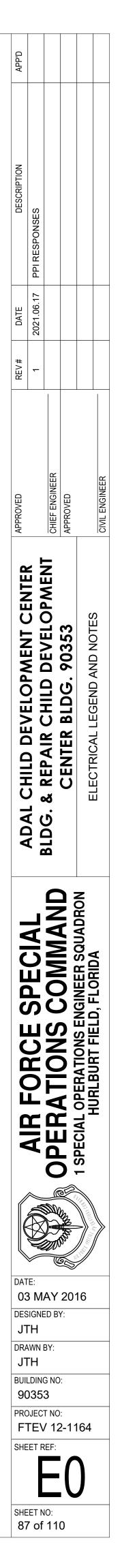
21. ALL EXHAUST FAN DISCONNECTS AND OVERLOADS ARE SCHEDULED TO BE PROVIDED UNDER DIVISION 15.

22. ALL DIMENSIONS TO DEVICES AFF SHALL BE TO CENTERLINE UNLESS NOTED OTHERWISE.

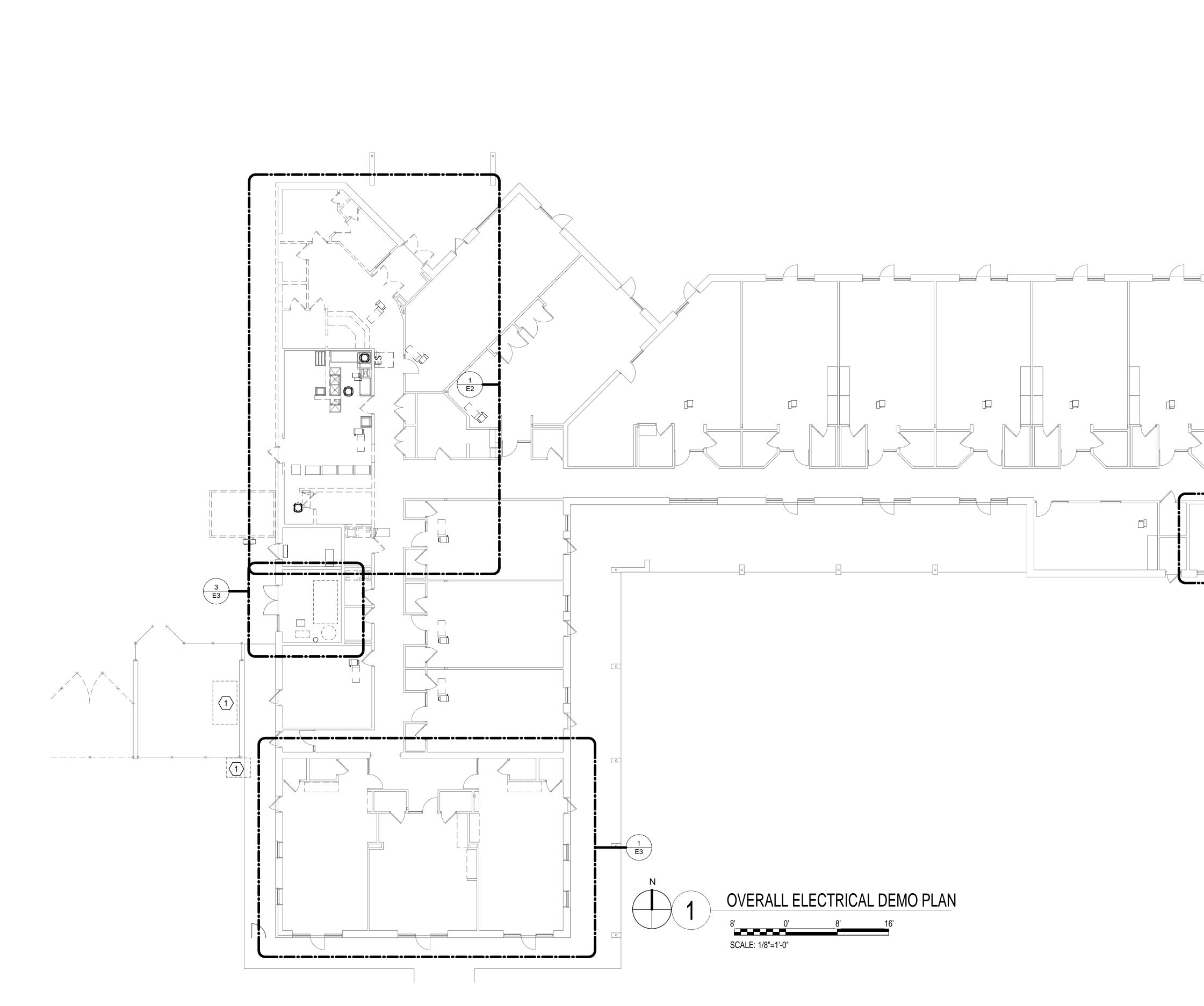
23. WORKING SPACE OF 36" FOR 120/208 SYSTEMS AND 42" FOR 277/480 SYSTEMS SHALL BE MAINTAINED IN FRONT OF ALL ELECTRICAL PANELS AND DEVICES.

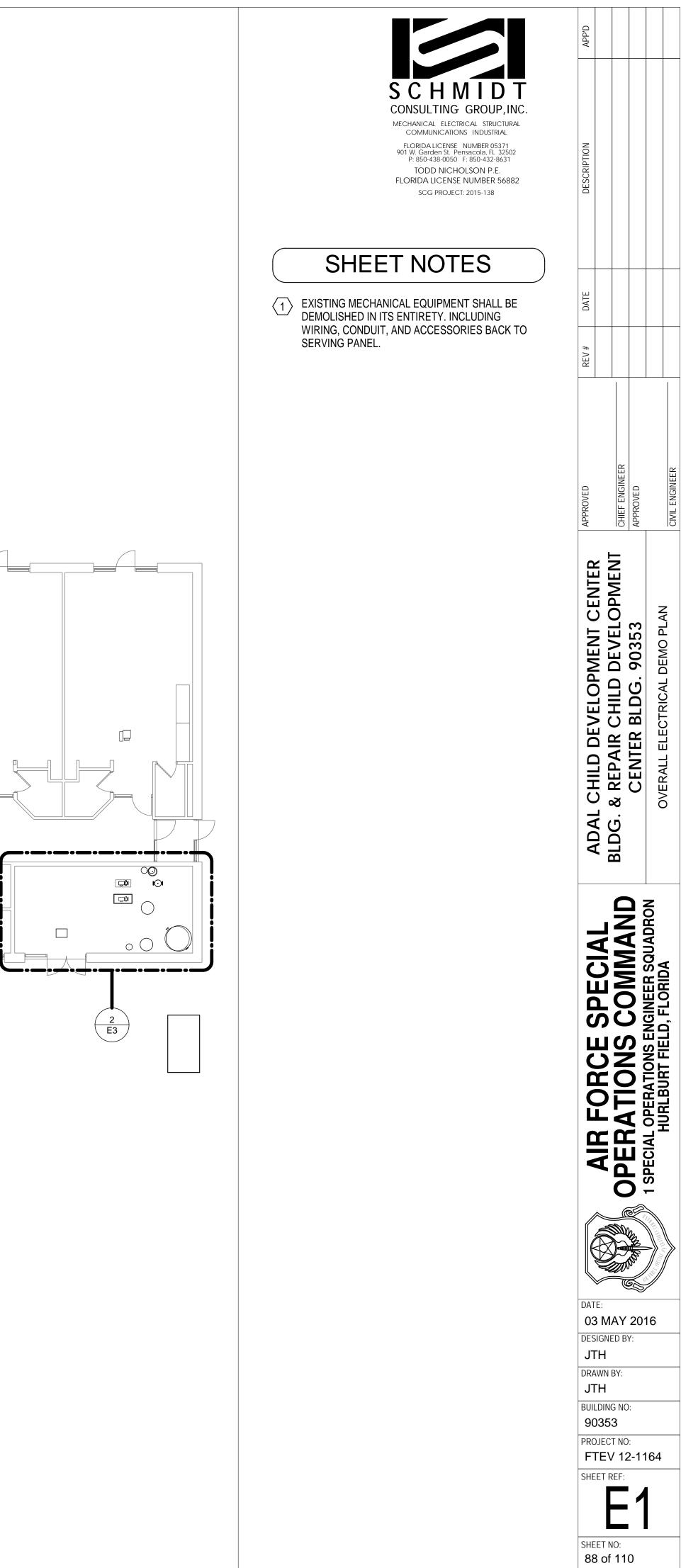
24. ALL SIDEWALKS AND PARKING LOT ASPHALT AREAS THAT ARE CUT DUE TO NEW ELECTRICAL SERVICES SHALL BE REPAIRED TO

25. FINAL CONNECTION TO ALL EQUIPMENT IS SHOWN DIAGRAMMATIC. PROVIDE FINAL CONNECTION AS REQUIRED PER MANUFACTURER OF EQUIPMENT.

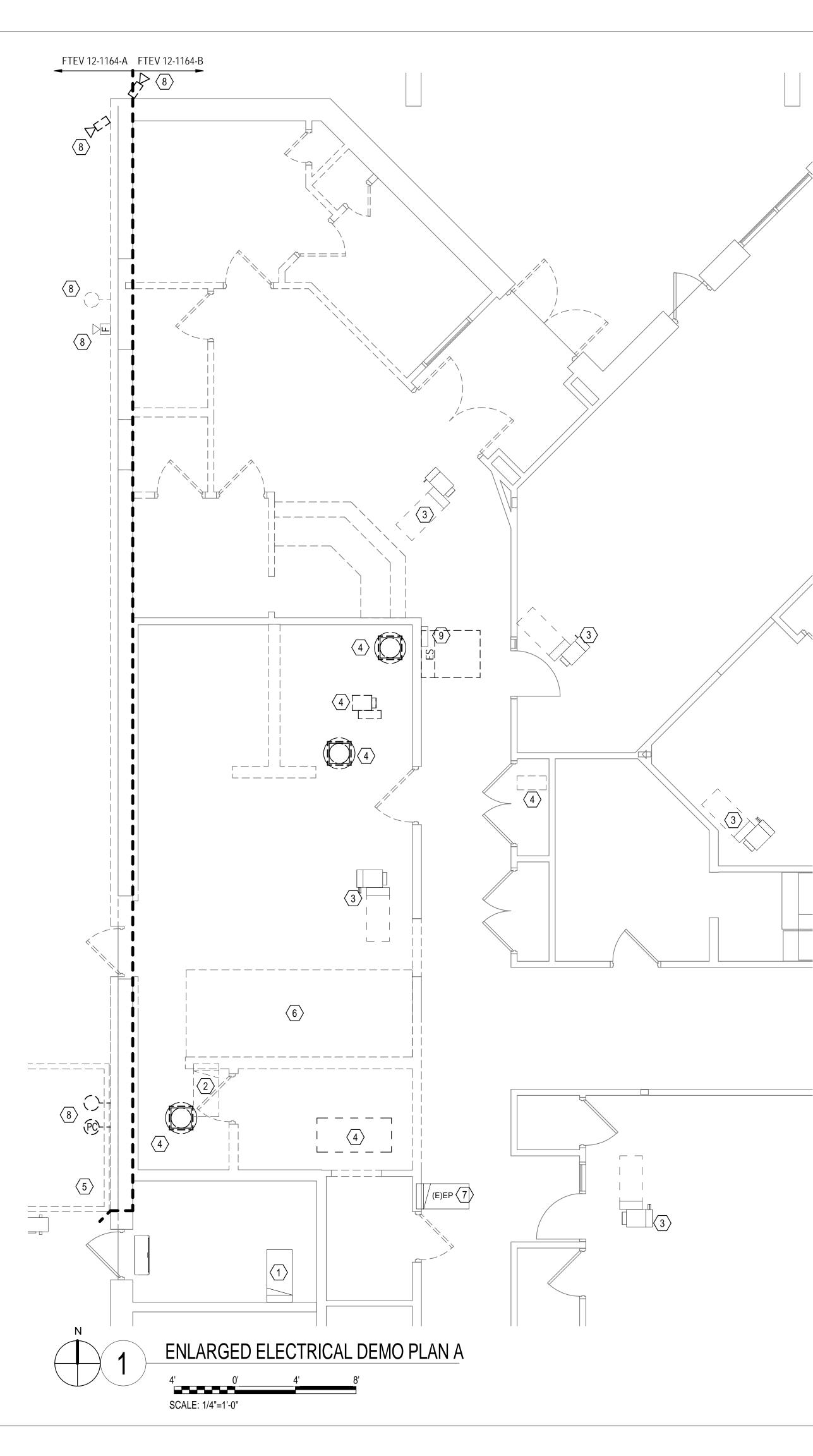








STANDARD D LAYOUT (24" X 36")





MECHANICAL ELECTRICAL STRUCTURAL COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 TODD NICHOLSON P.E. FLORIDA LICENSE NUMBER 56882

TODD NICHOLSON P.E. FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138

SHEET NOTES

- (1) EXISTING MAIN PANEL "A". 800A. 3 P. MAIN BREAKER. 208Y/120V 3Ø/4W WESTINGHOUSE PRL4B PANEL.
- $\langle 2 \rangle$ EXISTING 225A PANEL "KP" TO BE DEMOLISHED IN ITS ENTIRETY.
- (3) EXISTING MECHANICAL EQUIPMENT TO REMAIN AS-IS.
- (4) EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED IN ITS ENTIRETY INCLUDING ALL DISCONNECTS, WIRE, AND CONDUIT BACK TO SERVING ELECTRICAL PANEL.
- 5 DISCONNECT EXTERIOR FREEZER, REMOVE WIRING BACK TO SERVING PANEL, CAP CONDUIT INSIDE AND SEAL WALL PER NEC REQUIREMENTS AND ABANDON CONDUIT AT WALL.
- 6 EXISTING KITCHEN HOOD SHALL BE DISCONNECTED AND DEMOLISHED IN ITS ENTIRETY. REMOVE ALL WIRING AND CONDUIT BACK TO SERVING PANEL.
- (7) EXISTING ELECTRICAL PANEL TO REMAIN AS-IS. PROTECT AT ALL TIMES DURING CONSTRUCTION.
- 8 EXISTING ELECTRICAL DEVICE TO BE DEMOLISHED IN ITS ENTIRETY.
- 9 EXISTING FIRE ALARM REMOTE ANNUNCIATOR PANEL TO REMAIN AS-IS.

GENERAL DEMOLITION NOTES

1. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH THE EXTENT OF WORK REQUIRED TO COMPLETE THE JOB PRIOR TO COMMENCING WORK.

2. ALL DEVICES SHOWN SHALL BE REMOVED IN THEIR ENTIRETY UNLESS NOTED OTHERWISE. DEMOLITION SHALL INCLUDE DEVICES, WIRING, AND CONDUITS UNLESS BRANCH CIRCUIT SERVES EQUIPMENT BEYOND DEVICES BEING DELETED. (EXCEPTION: CONDUIT THAT IS CONCEALED ABOVE HARD CEILING, CONCEALED BELOW GRADE OR CONCEALED IN WALLS NEED NOT BE REMOVED. WIRING SHALL ALWAYS BE REMOVED. EXISTING CONDUIT MAY BE RE-USED IF PRACTICAL AND CONDUIT IS IN GOOD CONDITION.)

3. ALL ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE DEMOLISHED DEVICES FROM CONSTRUCTION SITE.

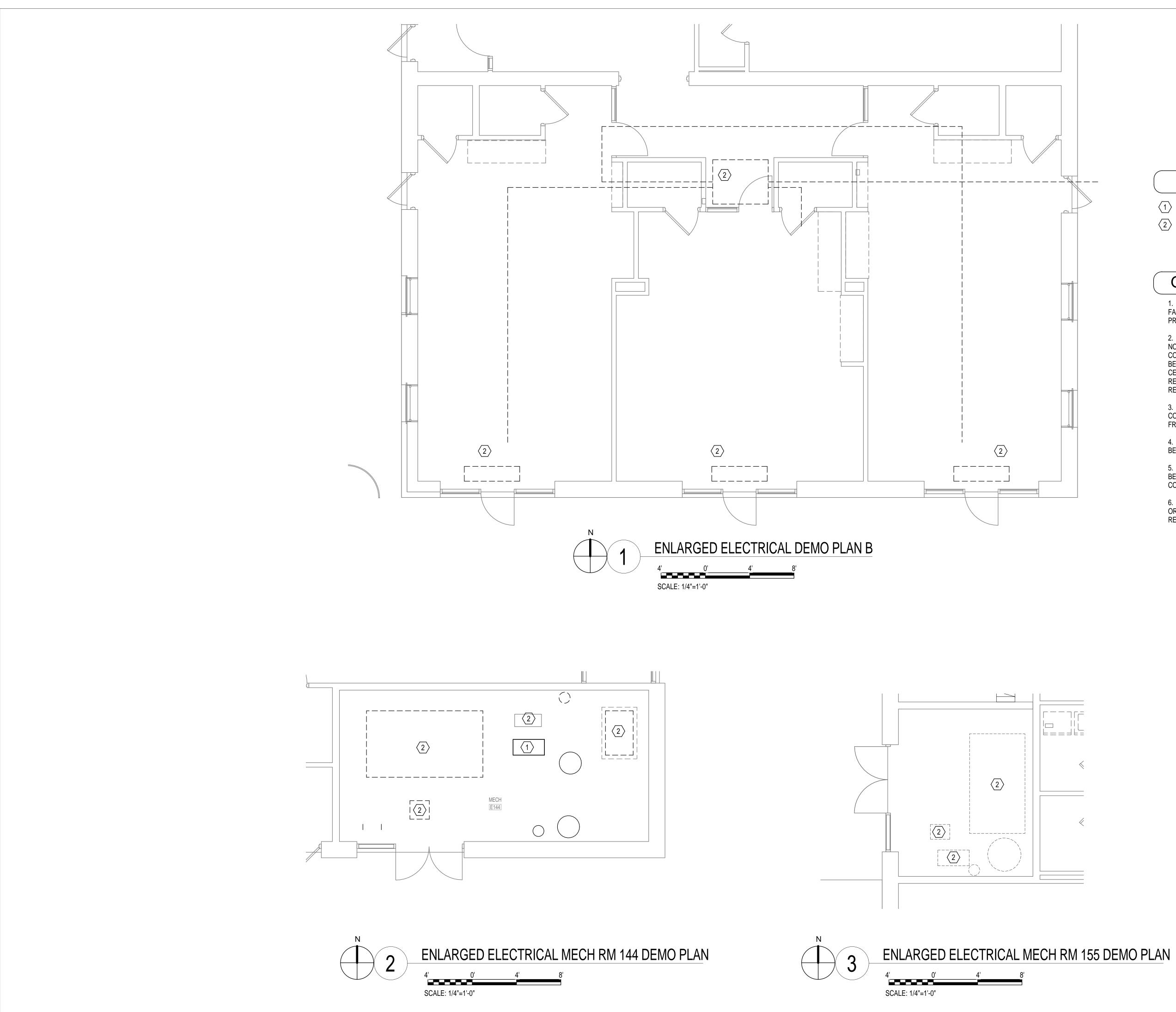
4. ALL BRANCH CIRCUITS SERVING AREAS OUTSIDE OF CONTRACT SHALL BE MAINTAINED DURING CONSTRUCTION PHASE.

5. ALL DEMOLITION WORK THAT INVOLVES MECHANICAL EQUIPMENT SHALL BE COORDINATED BETWEEN THE ELECTRICAL AND MECHANICAL CONTRACTORS.

6. CONTRACTOR SHALL REPAIR ANY DAMAGED WALLS DUE TO DEMOLITION OR RELOCATION OF ANY ELECTRICAL DEVICES. WALLS SHALL BE PATCHED, REPAIRED, AND PAINTED TO MATCH EXISTING.

PMENT CENTER DEVELOPMENT . 90353 ∢ Z LD OP CH BL . CHILD D & REPAIF CENTEI ADA BLDG R FORCE SPECIAL RATIONS COMMAND L OPERATIONS ENGINEER SQUADRON HURLBURT FIELD, FLORIDA OPER/ 1 SPECIAL O 03 MAY 2016 DESIGNED BY: JTH DRAWN BY: JTH BUILDING NO: 90353 PROJECT NO: FTEV 12-1164 SHEET REF:







COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 TODD NICHOLSON P.E.

FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138

SHEET NOTES

EXISTING MECHANICAL EQUIPMENT TO REMAIN AS-IS.

EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED IN ITS ENTIRETY INCLUDING ALL DISCONNECTS, WIRE, AND CONDUIT BACK TO SERVING ELECTRICAL PANEL.

GENERAL DEMOLITION NOTES

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6. CONTRACTOR SHALL REPAIR ANY DAMAGED WALLS DUE TO DEMOLITION OR RELOCATION OF ANY ELECTRICAL DEVICES. WALLS SHALL BE PATCHED, REPAIRED, AND PAINTED TO MATCH EXISTING.

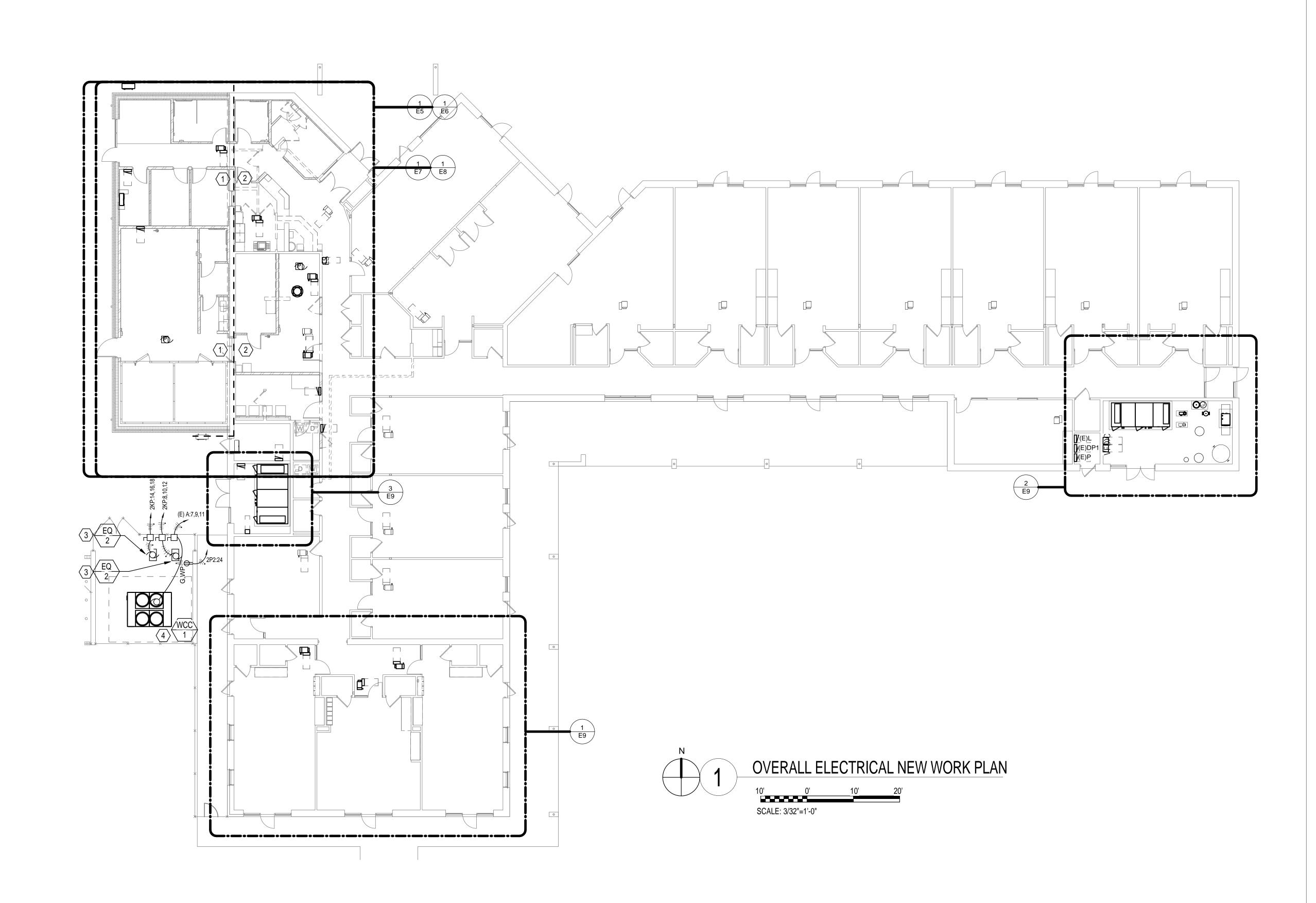
ALL WORK ON THIS SHEET TO BE PART OF FTEV 12-1164-B

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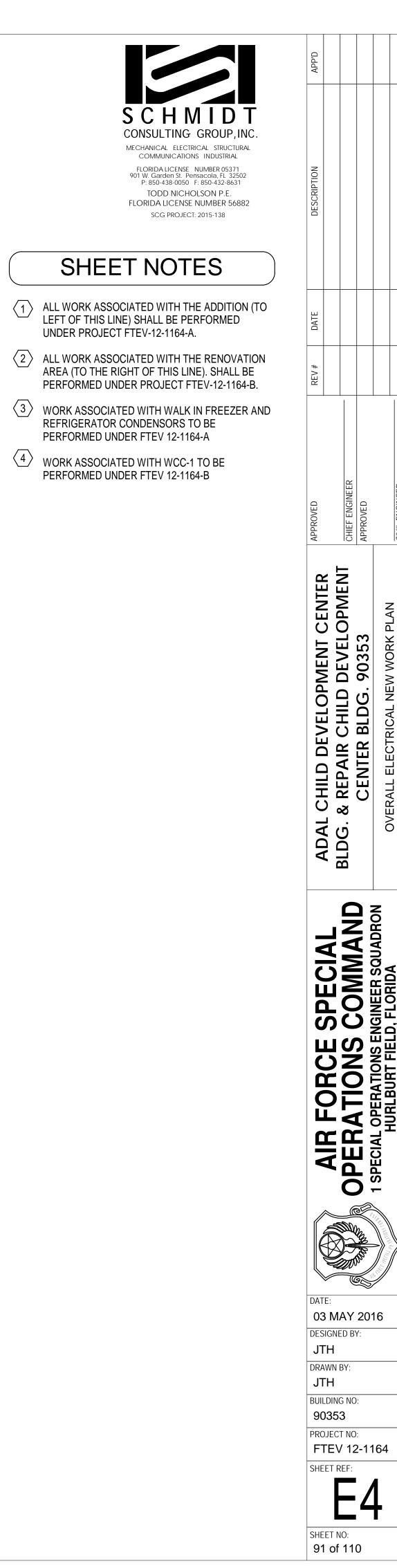
SHEET NO: 90 of 110

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APP'D					
DESCRIPTION					
DATE					
REV #					
APPROVED		CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
		BLUG. & KEPAIK CHILU DEVELOPINIENI	CENTER BLDG. 90353	ENI APCED ELECTRICAL MECH RM 155 DEMO RI AN	בואבארטבע ברבט ואוטאר ואובטון אואי ושט עבואוט דבא
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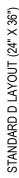
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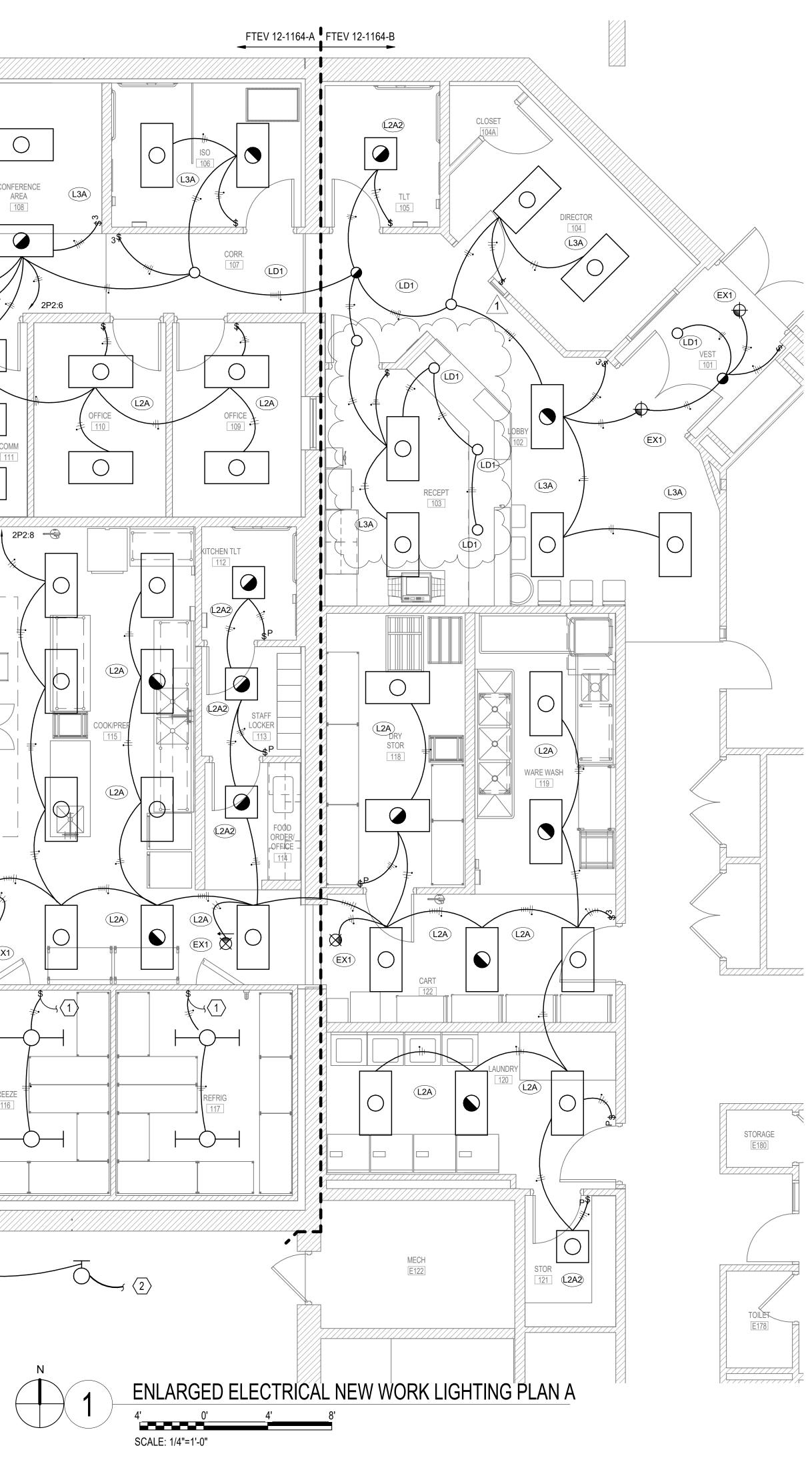
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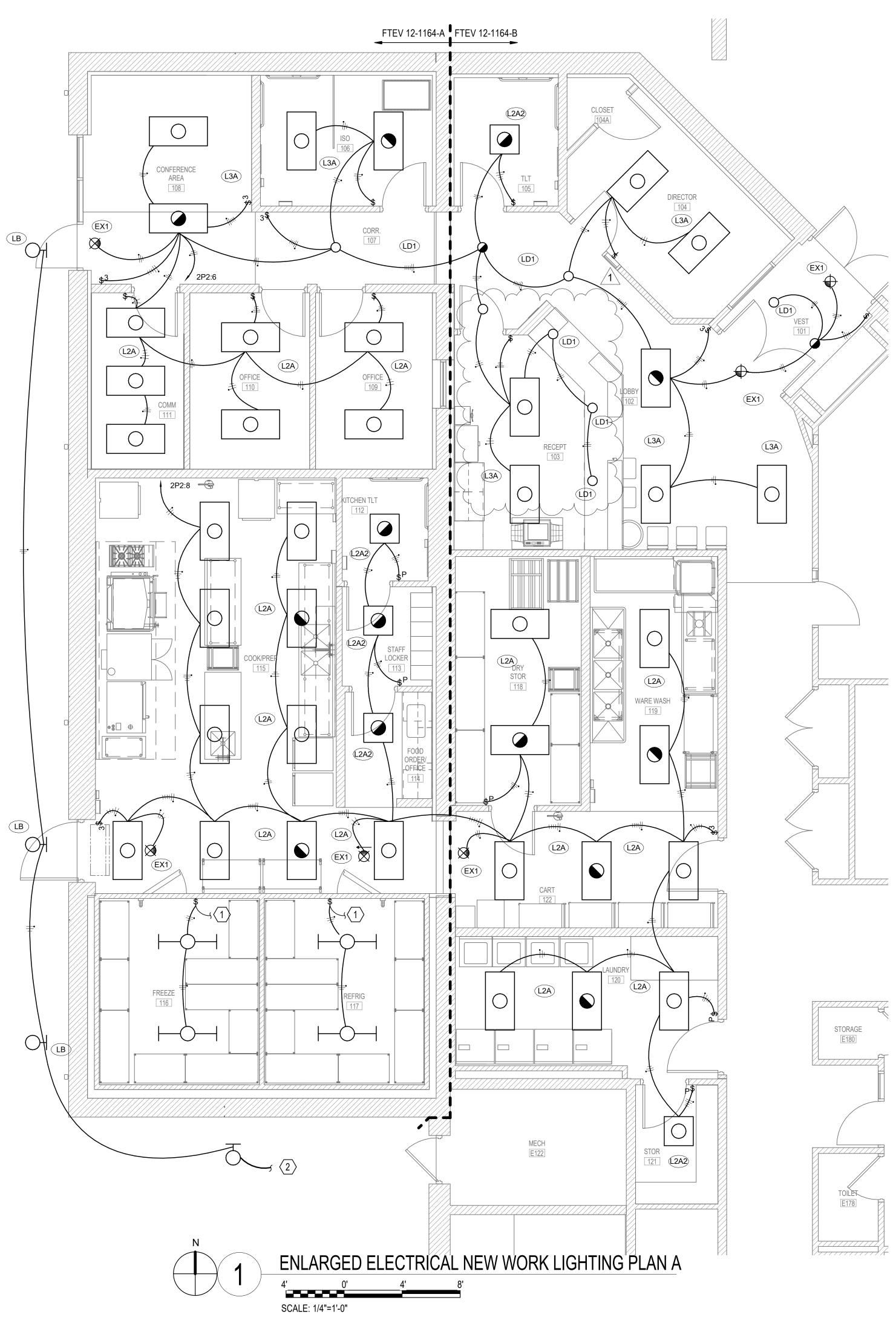
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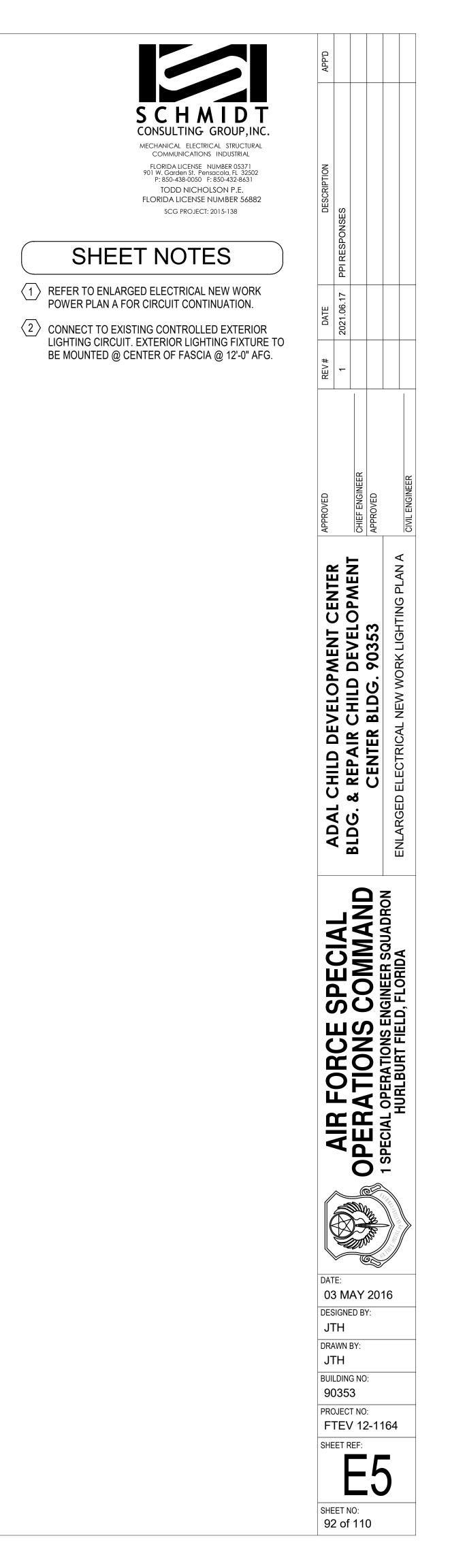
GINEER S . FLORID/

OPERATIONS EN HURLBURT FIELD

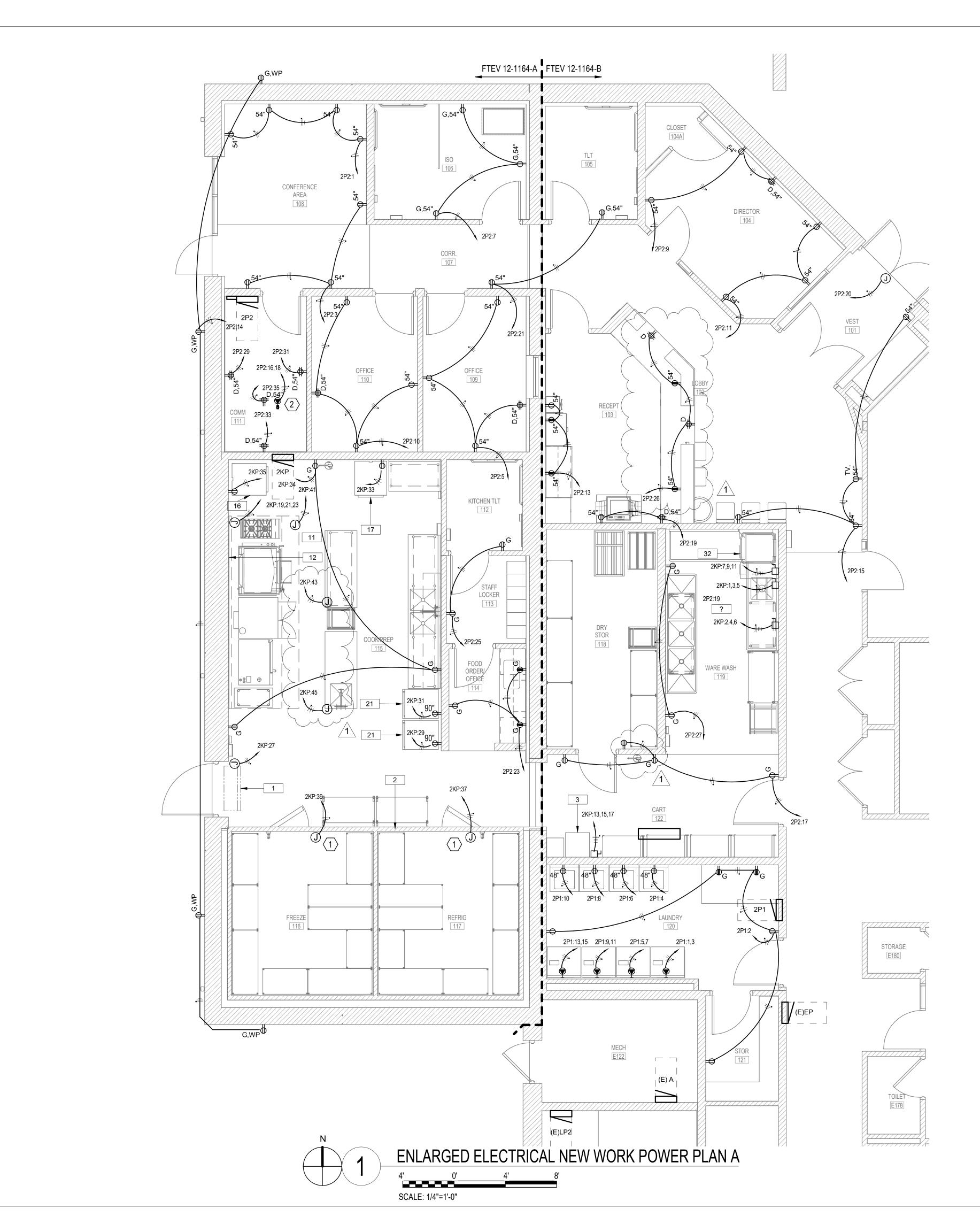


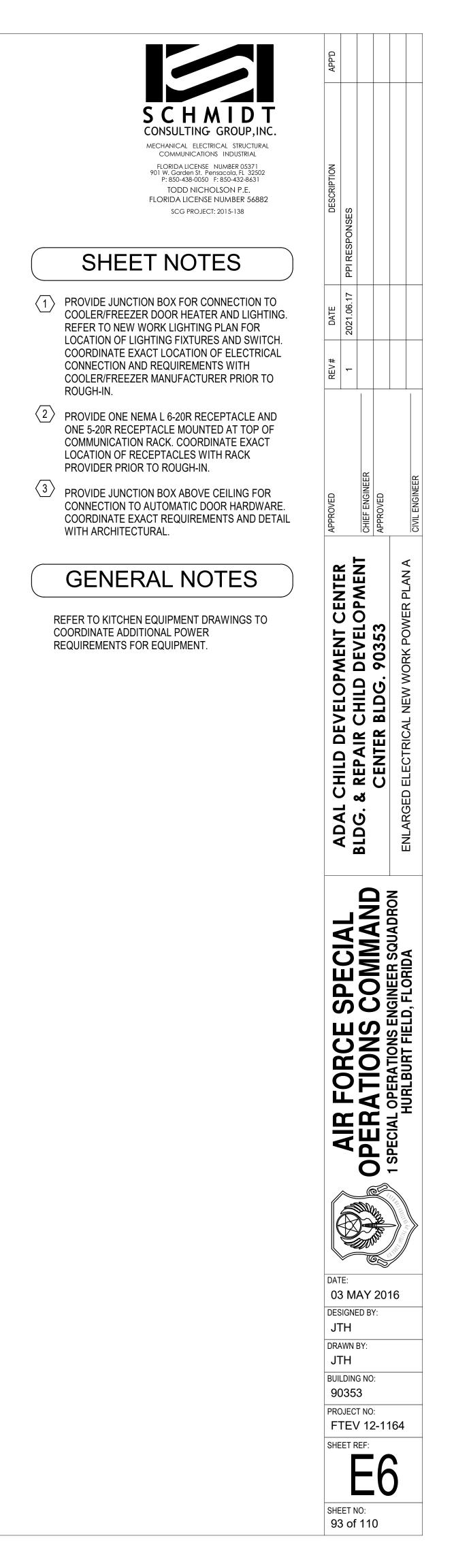


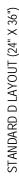


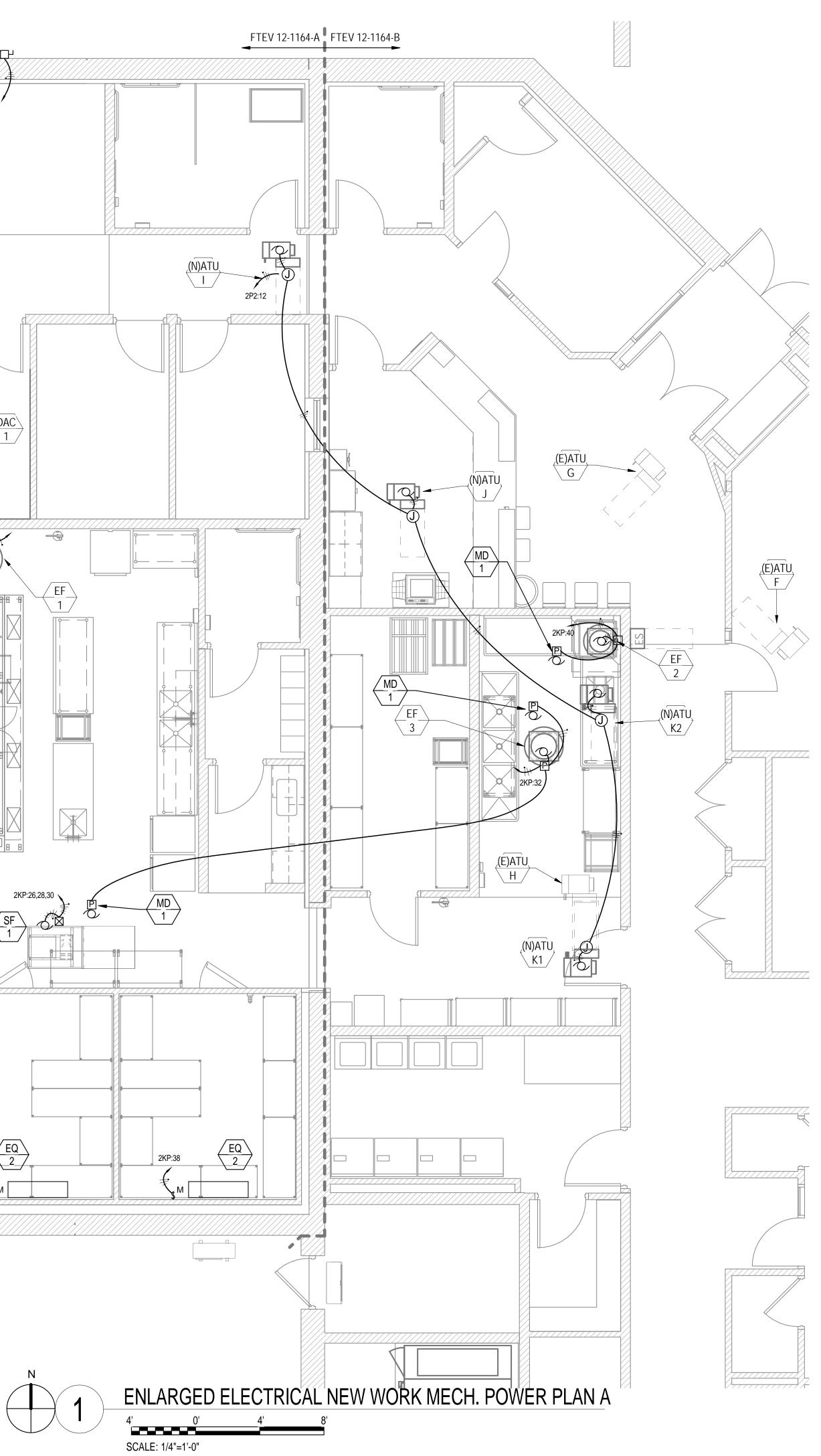


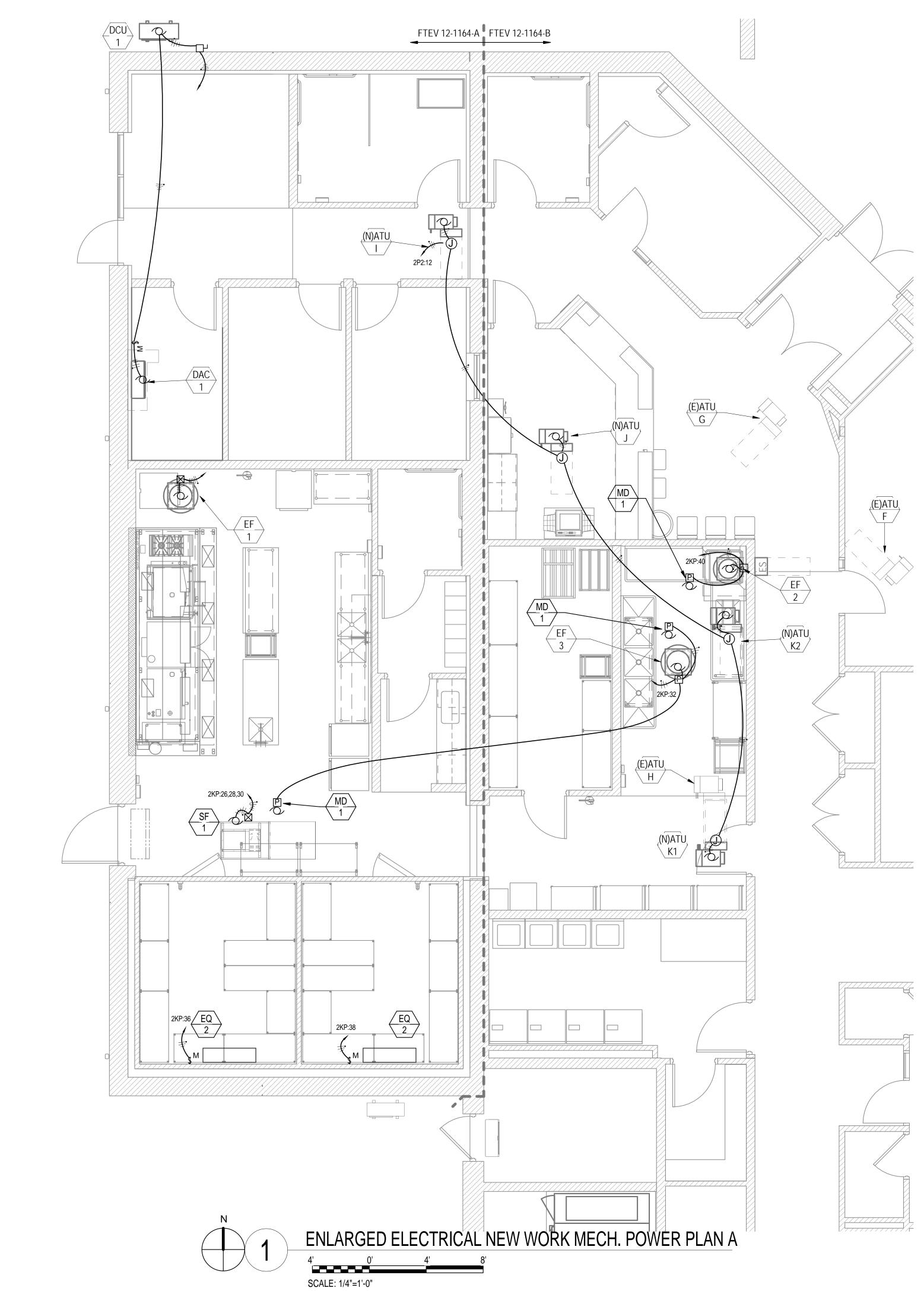








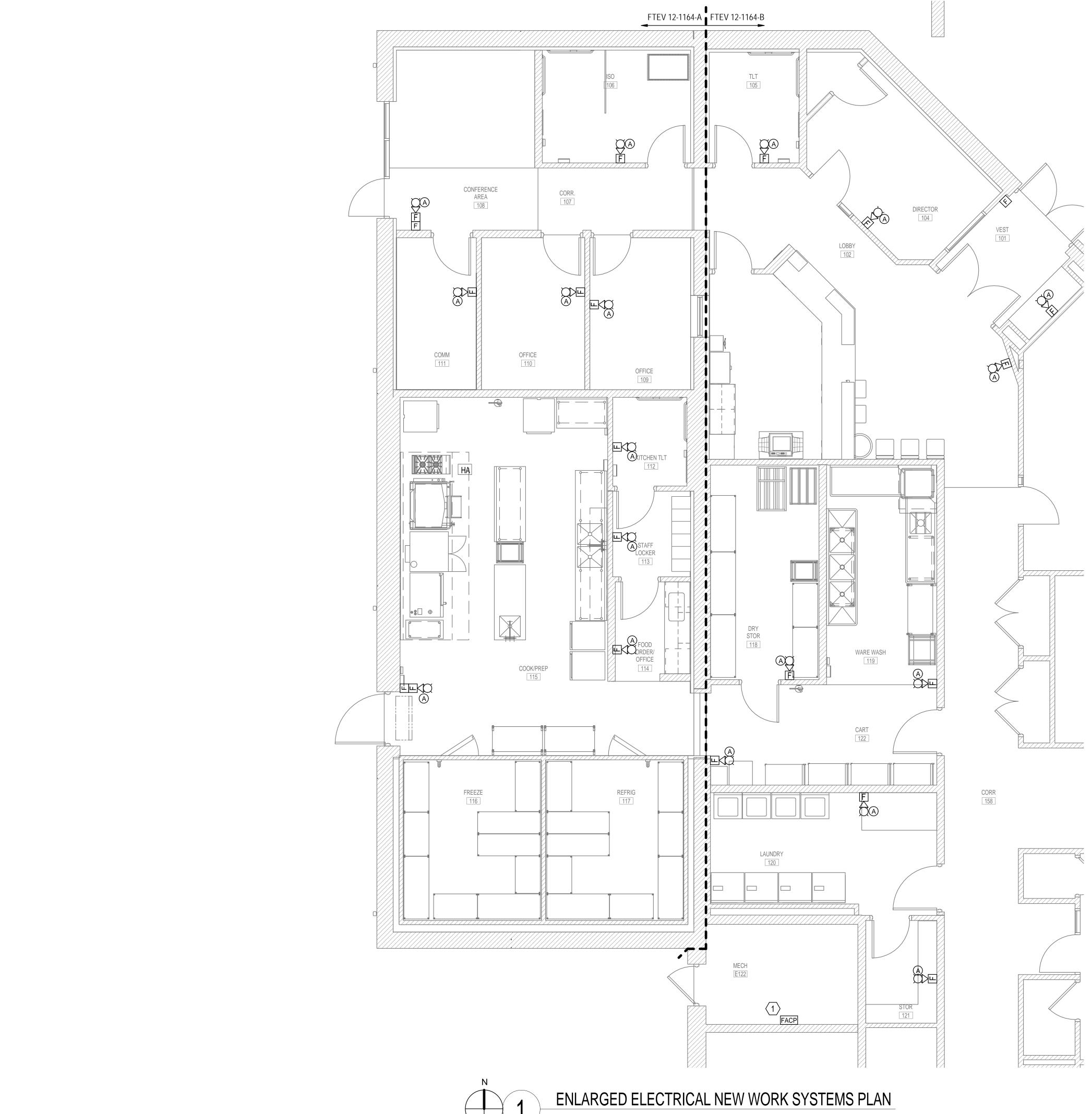


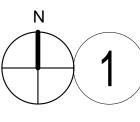




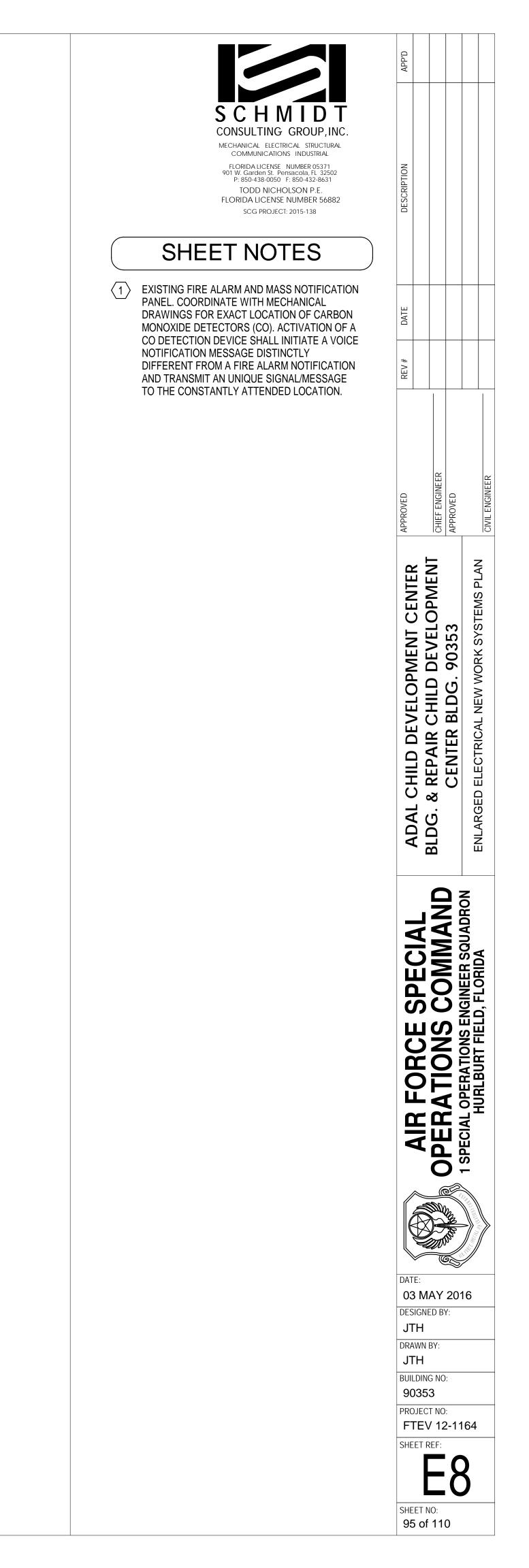
FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 TODD NICHOLSON P.E. FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138

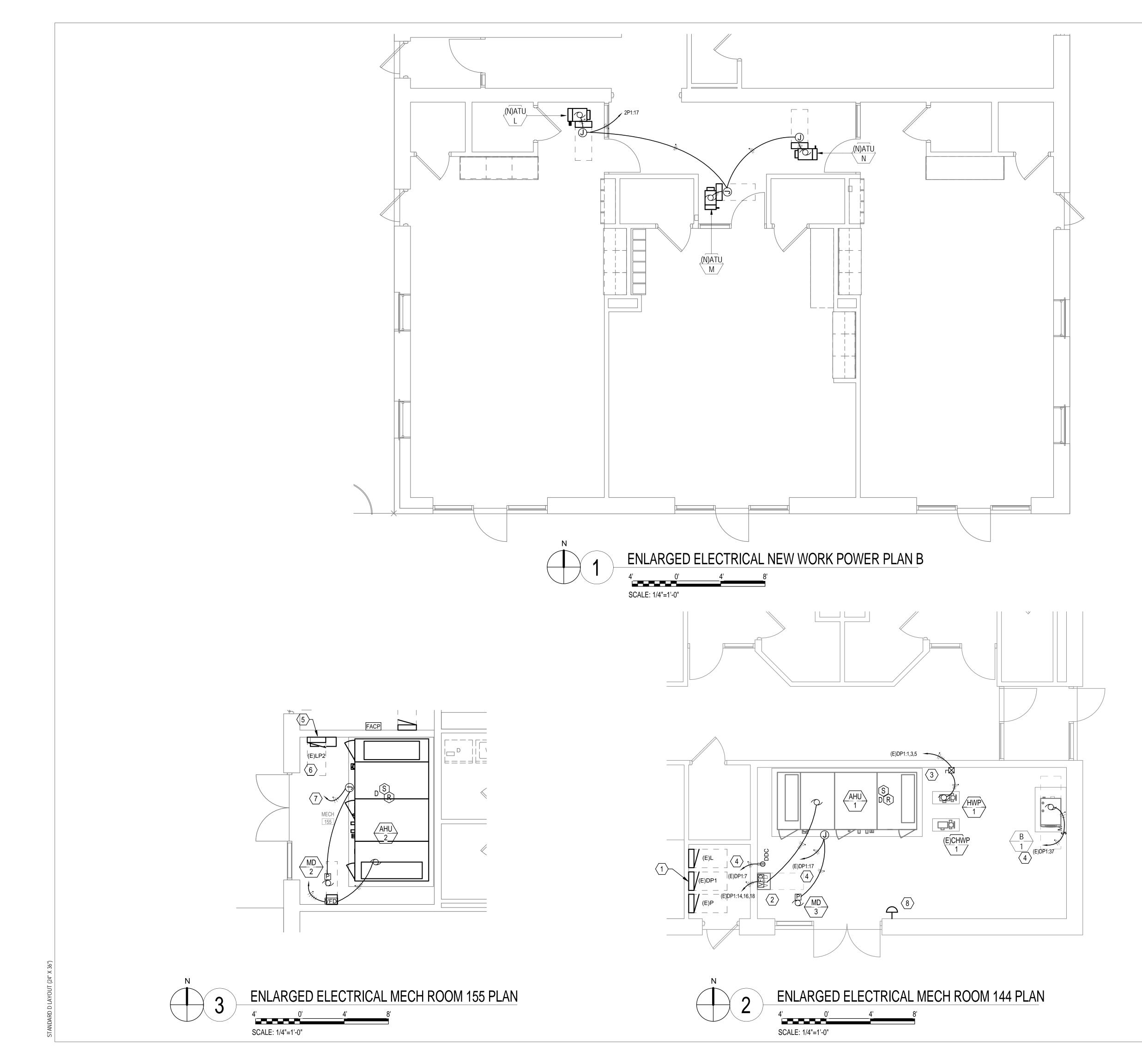
REV # DATE DESCRIPTION APP'D					
APPROVED		CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
		BLUG. & KEPAIK CHILU DEVELOPIMENI	CENTER BLDG. 90353	ENLARGED ELECTRICAL NEW WORK MECH. POWER PLAN	A
		ODFRATIONS COMMAND			
DES JT DRA JT	3 M/ 51GNE 7H 	ED BY		16	
90 PRC F SHE	DING DJEC DJEC FEV EET R EET N L Of	3 T NO / 12 REF:	: 2-11	64 7	

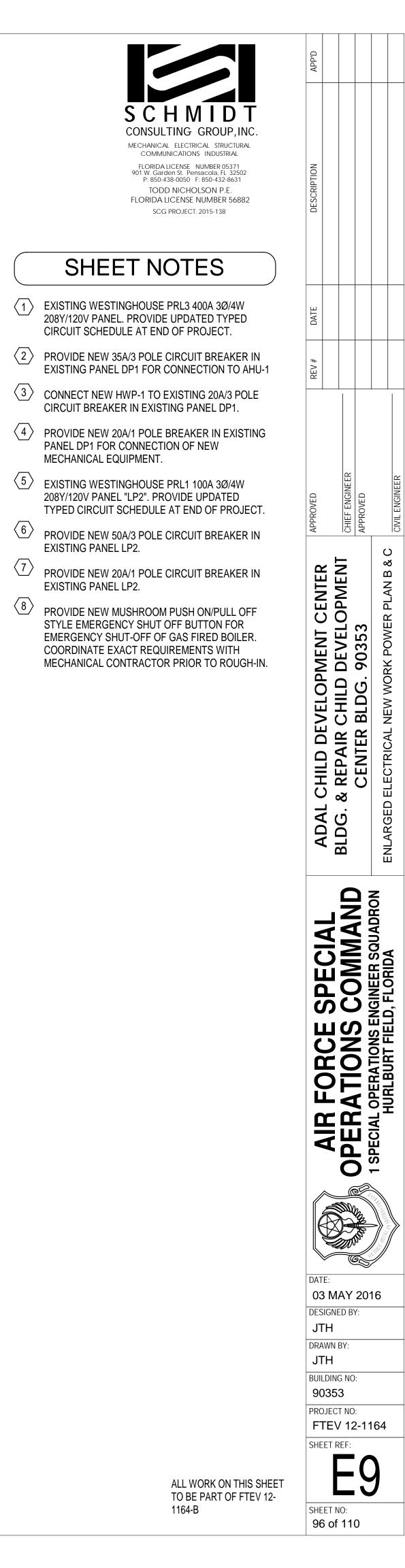




SCALE: 1/4"=1'-0"







							Panell	board Inforr	nation Sche	edule						
	ENCL	OSURE						FAULT		NEUTRAL			FEEDER	S		
PANEL NAME	TYPE	MOUNTIN G	VOLTAGE	# OF PHASES	WIRE	MCB RATING	SERVICE ENTRANCE	RATING (kAIC)	BUS RATING	BUS RATING	CB TYPE	CONDUCTOR MATERIAL	CONDUCTORS	GROUND	CONDUIT	TVS
2KP	NEMA 1	SURFACE	208Y/120	3	4	225A	NO	10	225 A	225 A	BOLT-ON	CU	4#4/0	#4	2-1/2"C	No
2P1	NEMA 1	SURFACE	208Y/120	3	4	100A	NO	10	100 A	100 A	BOLT-ON	CU	4#1	#6	2"C	No
2P2	NEMA 1	SURFACE	208Y/120	3	4	100A	NO	10	100 A	100 A	BOLT-ON	CU	4#1	#6	2"C	Ye

NOTES:

1. ALL BUSSING SHALL BE COPPER, INCLUDING NEUTRAL AND GROUND.

2. ALL PANEL LUGS 100 AMPS AND GREATER SHALL BE COPPER.

3. ALL LUGS ON CIRCUIT BREAKERS GREATER THAN 400 AMPS SHALL BE COPPER.

4. ALL EQUIPMENT SHALL BE FULLY RATED FOR THE LISTED FAULT RATING. SERIES RATINGS SHALL NOT BE ALLOWED.

120 V 1 1 A 0.1 kVA SEE NOTES

1.2 kVA

1.4 kVA

0.1 kVA

0.8 kVA

0.8 kVA

0.8 kVA

0.8 kVA

0.3 kVA

0.3 kVA

208 V 3 214 A 61.6 kVA 400/3 N3RSS

120 V 1 1 A 0.1 kVA

208 V 1 12 A 2.0 kVA

208 V 3 7 A 2.1 kVA

120 V 1 14 A 1.4 kVA

208 V 3 5 A 1.4 kVA

120 V 1 13 A

208 V 3 5 A

208 V 1 1 A

120 V 1 8 A

120 V 1 8 A

120 V 1 8 A

120 V 1 3 A

120 V 1 3 A

KITCHEN HOOD SUPPLY FAN208 V35 A1.5 kVASEE NOTES

120 V 1 8 A

KITCHEN EQUIPMENT ELECTRICAL SCHEDULE

															ł
				ECTRICA ORMATIC		DISC			WIRE S	SIZE	SERVIN				
Equipmen t Type	Equipment Number	COMMENTS	VOLTAGE	ØMC	A LOAD	DISC TYPE	CB SIZE	Ø	GROUNE		G PANEL			DISC NOTES	
EQ	1	AIR CURTAIN	120 V	1 11	A 1 kVA	SEE NOTE	S 20 A	2#12	#12	1/2"C	2KP			EVES AS DISCONNECT. PROVIDE AND CONNECT CONTACTS FOR A COMPLETE AND USABLE	
EQ	2	COOLER CONDENSOR	120 V	1 13	A 1 kVA	SEE NOTE	S 20 A	2#12	#12	1/2"C	2KP	FREEZER CON	NDENSOR	OCATION AND ELECTRICAL REQUIREMENTS OF R PRIOR TO ROUGH-IN. PROVIDE MOTOR RATED WITH OVERLOAD ELEMENTS FOR CONTROL OF	
EQ	2	FREEZER CONDENSOR	120 V	1 13	A 1 kVA	SEE NOTE	S 20 A	2#12	#12	1/2"C	2KP	FREEZER CON	NDENSOR	OCATION AND ELECTRICAL REQUIREMENTS OF R PRIOR TO ROUGH-IN. PROVIDE MOTOR RATED WITH OVERLOAD ELEMENTS FOR CONTROL OF	
EQ	2	WALK IN COOLER LIGHTS/DOOR HEATER	120 V	1 13	A 1 kVA	SEE NOTE	S 20 A	2#12	#12	1/2"C	2KP	COORDINATE		LK IN INSTALLED FOR EXACT LOCATION OF ECTRICAL CONNECTION PRIOR TO ROUGH-IN	
EQ	2	WALK IN FREEZER LIGHTS/DOOR HEATER	120 V	1 13	A 1 kVA	SEE NOTE	S 20 A	2#12	#12	1/2"C	2KP			LK IN INSTALLED FOR EXACT LOCATION OF ECTRICAL CONNECTION PRIOR TO ROUGH-IN	
EQ	2C	WALK IN COOLER COMPRESSOR	208 V	3 17	A 5 kVA	30/3 N3RS	S 20 A	3#12	#12	1/2"C	2KP		-	OCATION AND ELECTRICAL REQUIREMENTS OF RESSOR PRIOR TO ROUGH-IN.	[
EQ	2F	WALK IN FREEZER COMPRESSOR	208 V	3 25	A 7 kVA	30/3 N3RS	S 30 A	3#10	#10	1/2"C	2KP			OCATION AND ELECTRICAL REQUIREMENTS OF OR PRIOR TO ROUGH-IN.	
EQ	3	ICE MACHINE	208 V	3 18	A 5 kVA	30/3 N1SS		3#12		1/2"C	2KP				
EQ	11	KITCHEN HOOD	120 V	1 10	A 1 kVA	SEE NOTE	S 20 A	2#12	#12	1/2"C	2KP		CAL REQI	OCATION OF FACTORY PROVIDED CONTROLLER JIREMENTS WITH KITCHEN HOOD PROVIDER	
EQ	12	UTILITY DISTBUTION	208 V	3 20	A 6 kVA	SEE NOTE	S 30 A	4#12	#10	1/2"C	2KP			DX FOR CONNECTION DISTRIBUTION SYSTEM.	
		SYSTEM												L ACT AS DISCONNECT. COORDINATE HEIGHT OF 1	
EQ	13	WORK TABLE	120 V		A 2 kVA	SEE NOTE		2#10		1/2"C	2KP				
EQ	16	REACHIN FREEZER		$\wedge \downarrow$	A 1 kVA			人 2#12		<u> </u>	2KP			RECEPTACLE MOUNTED AT 90" AFE	
EQ	17	REACHIN	120 4	1 10	$\gamma \gamma \gamma$			2#12		1/2"6	2KR	PROVIDE NEW	4A 5-20R F	RECEPTACLE MOUNTED AT 90" AFF	
EQ	20	WORK COUNTER W/ SINKS	120 V		A 2 kVA	SEE NOTE		2#10		1/2"C	2KP				
EQ	21	HEATED HOLDING CABINET	120 V		A 2 kVA			2#10		1/2°C				RECEPTACLE MOUNTED AT 90" AFE	
EQ	21	HEATED HOLDING CABINET	120 V		A 2 kVA	SEE NOTE		2#10		1/2"C	2KP	PROVIDE NEM	1A 5-20R F	RECEPTACLE MOUNTED AT 90" AFF	
EQ	32	BOOSTER HEATER	208 V		A 13 kVA					1"C	2KP				
EQ EQ	32 34	DISHWASHER DISPOSER	208 V 208 V	3 31 A	A 9 kVA A 2 kVA					3/4"C 1/2"C	2KP 2KP				
							I	ME				RICAL SCHEDUI			
Equipment Type	Equipment Number	COMMENTS		AGE Ø	AL INFOF				: CB SIZE	Ø		ZE D CONDUIT	SERVIN G PANEL	DISC NOTES	
' JPC			VULIF			LOAD				× v					
AHU	1	AHU LIGHTING SYSTEM	/ 120	V 1	3 A	0.3 kVA	SEE NOTES	6	20 A	2#12	#12	1/2"C	(E)DP1	PROVIDE CONNECTION TO FACTORY PROVIDED SWITCH FOR AIR HAN	1 DLE
AHU	1	AIR HANDLER	208	V 3	25 A		SEE NOTES		30 A	3#10	#10	1/2"C	(E)DP1	VFD WITH INTEGRAL DISCONNECT PROVIDED BY DIVISION 23, CONNE	
AHU	2	AIR HANDLER	208				SEE NOTES		45 A	3#6	#10	1"C	. ,	VFD WITH INTEGRAL DISCONNECT PROVIDED BY DIVISION 23, CONNE	
AHU	2	AIR HANDLER LIGHTING			3 A		SEE NOTES		20 A	2#12	#12	1/2"C	. ,	PROVIDE CONNECTION TO FACTORY PROVIDED SWITCH FOR AIR HAN	IDLE
ATU		AIR TERMINAL UNIT	120		1 A		SEE NOTES		20 A	2#12	#12	1/2"C	2P2	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23	
ATU	J		120		1 A		SEE NOTES		20 A	2#12	#12	1/2"C		DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23	
ATU	K1		120		1 A		SEE NOTES		20 A	2#12	#12	1/2"C	2P2	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23	
ATU	K2		120		1 A		SEE NOTES		20 A	2#12	#12	1/2"C	2P2	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23	
ATU	L	AIR TERMINAL UNIT	120	v 1	1 A	0.1 kVA	SEE NOTES	>	20 A	2#12	#12	1/2"C	2P1	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23	

20 A

20 A

20 A

20 A

15 A

15 A

20 A

250 A

SEE NOTES

SEE NOTES

SEE NOTES

SEE NOTES

30/3 N3RSS

SEE NOTES

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AIR TERMINAL UNIT

AIR TERMINAL UNIT

BOILER

EXISTING

DUCTLESS SPLIT

DUCTLESS SPLIT

KITCHEN HOOD EXHAUST

FAN

KITCHEN HOOD EXHAUST

FAN

EXHAUST FAN

HOT WATER PUMP

MOTORIZED DAMPER

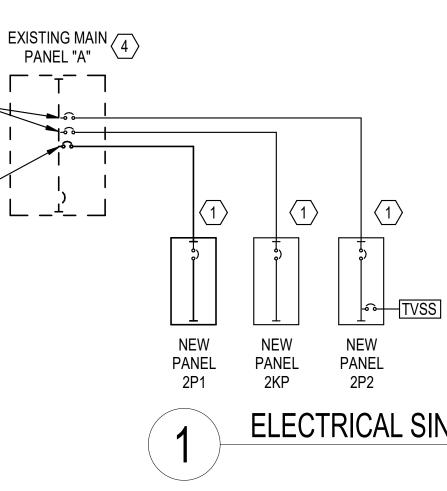
MOTORIZED DAMPER

MOTORIZED DAMPER

MOTORIZED DAMPER

MOTORIZED DAMPER

WATER COOLED CHILLER



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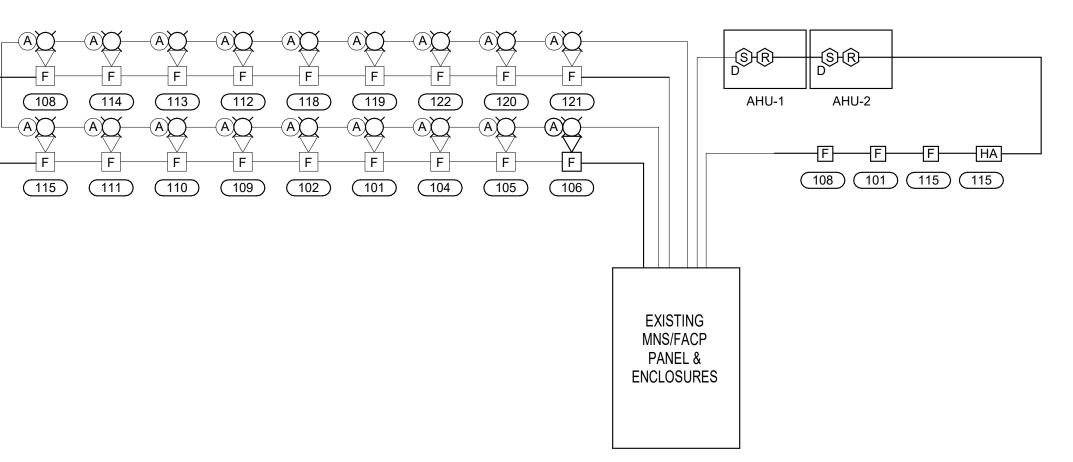
 $\langle 2 \rangle$

	WIRE SIZE		SERVIN	
Ø	GROUND	CONDUIT	G PANEL	DISC NOTES
2#12	#12	1/2"C	(E)DP1	PROVIDE CONNECTION TO FACTORY PROVIDED SWITCH FOR AIR HANDLER LIGHTING SYSTEM
3#10	#10	1/2"C	(E)DP1	VFD WITH INTEGRAL DISCONNECT PROVIDED BY DIVISION 23, CONNECTED BY DIVISION 26
3#6	#10	1"C	(E)LP2	VFD WITH INTEGRAL DISCONNECT PROVIDED BY DIVISION 23, CONNECTED BY DIVISION 26
2#12	#12	1/2"C	(E)LP2	PROVIDE CONNECTION TO FACTORY PROVIDED SWITCH FOR AIR HANDLER LIGHTING SYSTEM
2#12	#12	1/2"C	2P2	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23
2#12	#12	1/2"C	2P2	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23
2#12	#12	1/2"C	2P2	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23
2#12	#12	1/2"C	2P2	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23
2#12	#12	1/2"C	2P1	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23
2#12	#12	1/2"C	2P1	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23
2#12	#12	1/2"C	2P1	DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 23
2#12	#12	1/2"C	(E)DP1	PROVIDE MOTOR RATED POWER RELAY IN NEMA 1 ENCLOSURE FOR CONTROL OF EQUIPMENT
3#12	#12	1/2"C	(E)DP1	EXISTING TO REMAIN AS-IS.
2#12	#12	1/2"C	2P2	DUCTLESS SPLIT INDOOR SUPPLIED FROM EXTERIOR UNIT. PROVIDE 2#12, #12G, 1/2"C FROM
				DCU-1 TO MOTOR RATED TOGGLE SWITCH WITH OVERLOAD ELEMENT.
2#12	#12	1/2"C	2P2	
3#12	#12	1/2"C	2KP	PROVIDE FVNR ENCLOSED MAGNETIC MOTOR STARTER NEMA SIZED AS REQUIRED.
				COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH KITCHEN HOOD PRIOR TO ROUGH-IN.
2#12	#12	1/2"C	2KP	PROVIDE MOTOR RATED POWER RELAY IN NEMA 1 ENCLOSURE FOR CONTROL OF EQUIPMENT
0#40	#40	4/0"0		COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH KITCHEN HOOD PRIOR TO ROUGH-IN.
2#12	#12	1/2"C		PROVIDE MOTOR RATED POWER RELAY IN NEMA 1 ENCLOSURE FOR CONTROL OF EQUIPMENT
3#12	#12	1/2"C	(E)DP1	PROVIDE COMBINATION FVNR ENCLOSED MAGNETIC MOTOR STARTER NEMA SIZED AS REQUIRED.
2#12	#12	1/2"C	2KP	PROVIDE MOTOR RATED POWER RELAY IN NEMA 1 ENCLOSURE FOR CONTROL OF EQUIPMENT
2#12	#12	1/2°C	2KP	PROVIDE MOTOR RATED POWER RELAY IN NEMA 1 ENCLOSURE FOR CONTROL OF EQUIPMENT
2#12	#12	1/2°C		PROVIDE MOTOR RATED POWER RELAY IN NEMA 1 ENCLOSURE FOR CONTROL OF EQUIPMENT
2#12	#12	1/2°C	(E)LP2	PROVIDE MOTOR RATED POWER RELAY IN NEMA 1 ENCLOSURE FOR CONTROL OF EQUIPMENT
2#12	#12	1/2 C	(E)DP1	PROVIDE MOTOR RATED POWER RELAT IN NEMA 1 ENCLOSURE FOR CONTROL OF EQUIPMENT
3#12	#12	1/2 C		PROVIDE MOTOR RATED FOWER RELATION NEMA TENCLOSORE FOR CONTROL OF EQUIPMENT. PROVIDE FVNR ENCLOSED MAGNETIC MOTOR STARTER NEMA SIZED AS REQUIRED.
5#12	#12	1/2 0		COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH KITCHEN HOOD PRIOR TO ROUGH-IN.
3#4/0	#4	2 1/2"C	(E) A	

SHEET NOTES

- (1) REFER TO PANELBOARD INFORMATION SCHEDULE FOR FEEDER AND CONDUIT REQUIREMENTS
- $\langle 2 \rangle$ EXISTING 225A/3 POLE BREAKER.
- 3 PROVIDE NEW 100A/3 POLE BREAKER.
- $\langle 4 \rangle$ DISCONNECT EXISTING CIRCUIT BREAKER #38 AND RELOCATED TO SLOT #2 TO PROVIDE SPACE FOR NEW 100A/3 POLE BREAKER. RECONNECT EXISTING CIRCUIT.

ELECTRICAL SINGLE DIAGRAM



2 FIRE ALARM/MNS RISER DIAGRAM



FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 TODD NICHOLSON P.E. FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138

REV # DATE DESCRIPTION APP'D	1 2021.06.17 PPI RESPONSES				
APPROVED		CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
		BLUG. & REFAIR CHILD DEVELOFMENI	CENTER BLDG. 90353	ELECTRICAL SINCLE LINE DIACRAM	
	AIR FURCE SPECIAL	DFRATIONS COMMAND			NUNEDURI FIELU, FEUNIUA
		C		דע	

	Location: COOK/PF Supply From: (E) A Mounting: SURFAC Enclosure: NEMA 1				I	Volts: Phases: Wires:		wye				
Notes:												
скт	Circuit Description	Trip	Poles	А			в		С	Poles	Trip	
1 3	EQ-32 BOOSTER HEATER WARE WASH E		3	4333 7	45 VA	4333	745 VA			3	20 A	EQ-34 WAF
5	 EQ-32 DISHWASHER WARE WASH E118	 35 A	3	3000 1	620	1000		4333	745 VA	 3	 20 A	 EQ-2 WALł
9				3000 1	1020	3000	1620	0000	1000			
11 13	EQ-3 ICE MACHINE Room 190	 20 A	3	1767 2	2352			3000	1620	 3	 30 A	 EQ-2 WAL
15 17	 					1767	2352	1767	2352			
19 21	EQ-12 UTILITY DIST. SYSTEM COOK/PRE	EP 30 A	3	1900 6	83 VA	1900	683 VA			3	20 A 	EF-1
23 25	 EQ-12 SHUNT TRIP BREAKER			0 VA 4	.97 VA			1900	683 VA	 3	 20 A	 SF-1
27	EQ-1 AIR CURTAIN COOK/PREP E117	20 A	1		57 VA	1080	497 VA		40714			
29 31	EQ-21 HEATED CABINET COOK/PREP E1 EQ-21 HEATED CABINET COOK/PREP E1		1	2000 1	600			2000	497 VA	 1	 20 A	 EF-3
33 35	EQ-17 REACH IN REFRIDGERATOR EQ-16 REACH-IN FREEZER COOK/PREP	20 A E117 20 A	1			960 VA	540 VA	1380	1200	1 1	20 A 20 A	Receptacle HVAC FRE
37	EQ-2 WALK IN LIGHTING REFRIGERATOR	R E157 20 A	1	1305 1	200	1005	0.100			1	20 A	HVAC REF
39 41	EQ-2 FREEZER LIGHTS/DOOR HEATER	20 A			\rightarrow	1305	2190	1000	0 VA	1 1	20 A 20 A	HVAC Roor Spare
43 45	EQ #13 WORK TABLE EQ #20 WORK COUNTER W/ SINKS	30 A 30 A	1	2400	0 VA	2400	0VA			1 1	20 A 20 A	Spare Spare
47	Spare	~ 20A						0 VA	0 VA	1	20 A	Spare
49 51	Spare Space	20 A	1	0 VA	0 VA	0 VA	0 VA			1 	20 A 	Spare Space
53 55	Space Space			0 VA	0 VA			0 VA	0 VA			Space Space
57 59	Space Space					0 VA	0 VA	0 VA	0 VA			Space Space
	opuoo	Tot	al Load: al Amps:	25400 215			92 VA 4 A	2247	7 VA 7 A			
HVAC	Equipment Non Dwelling Unit		60770 V	`		GE 000/						Total
	acle		62770 V/ 0 VA 244 VA 540 VA			65.00% 0.00% 100.00%	, 0		40801 VA 0 VA 244 VA 540 VA	· · · · · · · · · · · · · · · · · · ·		Total E
Kitcher Lightin Other Recep Notes:	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1	P P1 46 E	0 VA 244 VA 540 VA			0.00% 100.00% 100.00% Volts: Phases: Wires:	120/208 3 4	Wye	0 VA 244 VA 540 VA			Total E
Kitcher Lightin Other Recep	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1	P P1 46 E Trip	0 VA 244 VA	A 480 VA 4		0.00% 100.00% 100.00% Volts: Phases: Wires:	120/208 3	Wye	0 VA 244 VA 540 VA	Poles 3 	Trip 20 A	Total E
Kitcher Lightin Other Recep Notes: Notes:	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/	P 1 46 E Trip AKER) 20 A	0 VA 244 VA 540 VA	480 VA 4		0.00% 100.00% 100.00% Volts: Phases: Wires:	120/208 3 4	Wye	0 VA 244 VA 540 VA	Poles 3	20 A	Total E Total C
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE	PP1 46 E KER) 20 A 20 A 20 A	0 VA 244 VA 540 VA 	480 VA 4		0.00% 100.00% 100.00% Volts: Phases: Wires:	120/208 3 4	Wye 480 VA	0 VA 244 VA 540 VA	Poles 3 3 3	20 A 50 A 	Total E Total C
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE	PP1 46 E KER) 20 A 20 A 20 A 20 A 20 A 20 A	0 VA 244 VA 540 VA	480 VA 4 480 VA 4 180 VA 5		0.00% 100.00% 100.00% Volts: Phases: Wires: Wires: 480 VA	120/208 3 4 8 480 VA 0 VA	Wye	0 VA 244 VA 540 VA	Poles 3 3	20 A 50 A	Total E Total E EXISTING C T- EXISTING S T- T- EXISTING S
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE	PP1 46 E KER) 20 A 20 A 20 A 20 A 20 A	0 VA 244 VA 540 VA 	480 VA 4 480 VA 4 180 VA 5	80 VA	0.00% 100.00% 100.00% Volts: Phases: Wires: Wires:	120/208 3 4 B 480 VA	Wye 480 VA	0 VA 244 VA 540 VA	Poles 3 3 3 3	20 A 50 A 	Total E Total E EXISTING C T- EXISTING S T- T- EXISTING S
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13 15 17 19	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE	PP1 46 E XE XFip AKER) 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	0 VA 244 VA 540 VA	480 VA 4 480 VA 4 180 VA 5	80 VA	0.00% 100.00% 100.00% Volts: Phases: Wires: Wires: 480 VA	120/208 3 4 8 480 VA 0 VA	Wye 480 VA	0 VA 244 VA 540 VA 	Poles 3 3 3 3 3 3 3 3	20 A 50 A 35 A 	Total E
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 111 13 15 17 19 21 23	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE	PP1 46 E XE XFip AKER) 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	0 VA 244 VA 540 VA	480 VA 4 480 VA 4 180 VA 5	80 VA	0.00% 100.00% 100.00% Volts: Phases: Wires: Wires: 480 VA	120/208 3 4 8 480 VA 0 VA	Wye 480 VA	0 VA 244 VA 540 VA 	Poles 3 3 3 3 3 3 3 3	20 A 50 A 35 A 	Total E
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13 15 17 19 21	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE	PP1 46 E XE XFip AKER) 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	0 VA 244 VA 540 VA	480 VA 4 480 VA 4 180 VA 5	80 VA	0.00% 100.00% 100.00% Volts: Phases: Wires: Wires: 480 VA	120/208 3 4 8 480 VA 0 VA	Wye 480 VA	0 VA 244 VA 540 VA 	Poles 3 3 3 3 3 3 3 3	20 A 50 A 35 A 	Total E
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE	PP1 46 E XE XFip AKER) 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	0 VA 244 VA 540 VA	480 VA 4 480 VA 4 180 VA 5	80 VA	0.00% 100.00% 100.00% Volts: Phases: Wires: Wires: 480 VA	120/208 3 4 8 480 VA 0 VA	Wye 480 VA	0 VA 244 VA 540 VA 	Poles 3 3 3 3 3 3 3 3	20 A 50 A 35 A 	Total E
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE	PP1 46 E XE XFip AKER) 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	0 VA 244 VA 540 VA	480 VA 4 480 VA 4 180 VA 5	80 VA	0.00% 100.00% 100.00% Volts: Phases: Wires: Wires: 480 VA	120/208 3 4 8 480 VA 0 VA	Wye 480 VA	0 VA 244 VA 540 VA 	Poles 3 3 3 3 3 3 3 3	20 A 50 A 35 A 	Total E Total
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE	PP1 46 E XKER) 20 A 20 A 20 A	0 VA 244 VA 540 VA	A 1 <	80 VA	0.00% 100.00% 100.00% Volts: Phases: Wires: Wires: 480 VA	120/208 3 4 8 480 VA 0 VA	Wye 480 VA	0 VA 244 VA 540 VA 	Poles 3 3 3 3 3 3 3 3	20 A 50 A 35 A 	Total E Total
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE	PP1 46 E XE XFip AKER) 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	0 VA 244 VA 540 VA	480 VA 4 480 VA 4 180 VA 5	80 VA	0.00% 100.00% 100.00% Volts: Phases: Wires: Wires: 480 VA	120/208 3 4 8 480 VA 0 VA	Wye 480 VA	0 VA 244 VA 540 VA 	Poles 3 3 3 3 3 3 3 3	20 A 50 A 35 A 	Total E Total
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13 5 7 9 11 13 5 7 9 11 13 5 7 9 11 13 5 7 9 11 13 5 7 9 11 13 3 5 27 29 31 33 35 37	Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE NEW BOILER	PP1 46 E MAKER) 20 A 20 A	0 VA 244 VA 540 VA	A 1 <	80 VA 80 VA 0 VA 2387 2387	0.00% 100.00% 100.00% Volts: Phases: Wires: 480 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120/208 3 4 8 480 VA 0 VA	Wye Wye 480 VA 640 VA 640 VA 398	0 VA 244 VA 540 VA 	Poles 3 3 3 3 3 3 3 3	20 A 50 A 35 A 	Total E Total
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 33 35 37 39 41	Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE NEW BOILER	P P P P P P P P P P P P P P P P P P P	0 VA 244 VA 540 VA Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1	▲ 480 VA 4 480 VA 4 180 VA 4 180 VA 2 180 VA 3 180 VA 3	80 VA 80 VA 0 VA 2387 2387 0 VA	0.00% 100.00%	120/208 3 4 120/208 3 4 0 2387 2387 2387 3 4	 Wye Wye 480 VA 0 VA 640 VA 640 VA 398 32 	0 VA 244 VA 540 VA 	Poles 3	20 A 50 A 35 A 	Total E Total
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 Legen	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE NEW BOILER NEW BOILER	P P P P P P P P P P P P P P P P P P P	0 VA 244 VA 540 VA Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1	▲ 480 VA 4 480 VA 4 180 VA 4 180 VA 2 180 VA 3 180 VA 3	80 VA 0 VA 2387 2387 2387	0.00% 100.00% 100.00% 100.00% 100.00% 480 VA 0 VA	120/208 3 4 0 VA 3 4 0 VA 2387 2387 1 2387 1 <td> Wye Wye 480 VA 0 VA 640 VA 640 VA 398 32 </td> <td>0 VA 244 VA 540 VA </td> <td>Poles 3</td> <td>20 A 50 A 35 A </td> <td>Total E Total E Total E EXISTING C EXISTING C EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S </td>	 Wye Wye 480 VA 0 VA 640 VA 640 VA 398 32 	0 VA 244 VA 540 VA 	Poles 3	20 A 50 A 35 A 	Total E Total E Total E EXISTING C EXISTING C EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S EXISTING S
Kitcher Lightin Other Recep Notes: Notes: CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 33 35 37 39 41 Legen	acle Branch Panel: (E)D Location: ELEC E1 Supply From: Mounting: SURFAC Enclosure: NEMA 1 Circuit Description NEW HWP-1 (EXISTING 20A/3 POLE BRE/ Receptacle MECH E144 EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE EXISTING SPARE NEW BOILER NEW BOILER	P P P P P P P P P P P P P P P P P P P	0 VA 244 VA 540 VA Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1	▲ 480 VA 4 480 VA 4 180 VA 4 180 VA 2 180 VA 3 180 VA 3	80 VA 0 VA 2387 2387 2387	0.00% 100.00% 100.00% Volts: Phases: Wires: Wires: 480 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120/208 3 4 0 VA 3 4 0 VA 2387 2387 1 2387 1 <td> Wye Wye 480 VA 0 VA 640 VA 640 VA 398 32 </td> <td>0 VA 244 VA 540 VA 480 VA 2387 2387 2387 480 VA 0 VA 2387 480 VA 11882 VA</td> <td>Poles 3</td> <td>20 A 50 A 35 A </td> <td>Total E</td>	 Wye Wye 480 VA 0 VA 640 VA 640 VA 398 32 	0 VA 244 VA 540 VA 480 VA 2387 2387 2387 480 VA 0 VA 2387 480 VA 11882 VA	Poles 3	20 A 50 A 35 A 	Total E

Branch Panel: 2P1

Location: LAUNDRY 120 Supply From: (E) A Mounting: SURFACE Enclosure: NEMA 1

Volts: 120/208 Wye Phases: 3

Wires: 4

скт	Circuit Description	Trip	Poles		4		В		C	Poles	Trip	Circuit Description	скт
1	Electric Clothes Dryer LAUNDRY E145	30 A	2	2500	1440					1	20 A	Receptacle LAUNDRY E145	2
3						2500	1000			1	20 A	WASHER LAUNDRY E145	4
5	Electric Clothes Dryer LAUNDRY E145	30 A	2					2500	1000	1	20 A	WASHER LAUNDRY E145	6
7				2500	1000					1	20 A	WASHER LAUNDRY E145	8
9	Electric Clothes Dryer LAUNDRY E145	30 A	2			2500	1000			1	20 A	WASHER LAUNDRY E145	10
11								2500	0 VA	1	20 A	Spare	12
13	Electric Clothes Dryer LAUNDRY E145	30 A	2	2500	0 VA					1	20 A	Spare	14
15						2500	0 VA			1	20 A	Spare	16
17	ATU L,M,N	20 A	1					300 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA							Space	20
21	Spare	20 A	1			0 VA	0 VA					Space	22
23	Spare	20 A	1					0 VA	0 VA			Space	24
25	Spare	20 A	1	0 VA	0 VA							Space	26
27	Space					0 VA	0 VA					Space	28
29	Space							0 VA	0 VA			Space	30
31	Space			0 VA	0 VA							Space	32
33	Space					0 VA	0 VA					Space	34
35	Space							0 VA	0 VA			Space	36
37	Space			0 VA	0 VA							Space	38
39	Space					0 VA	0 VA					Space	40
41	Space							0 VA	0 VA			Space	42
		Tota	al Load:	994	0 VA	950	0 VA	625	7 VA				
		Tota	I Amps:	87	Υ A	83	3 A	52	2 A	-			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Electric Clothes Dryer	20000 VA	100.00%	20000 VA		
IVAC	300 VA	100.00%	300 VA	Total Conn. Load:	25695 VA
Receptacle	5440 VA	100.00%	5440 VA	Total Est. Demand:	25695 VA
				Total Conn.:	71 A
				Total Est. Demand:	71 A
Notes:					1

Branch Panel: 2P2

Location: COMM 111 Supply From: (E) A Mounting: SURFACE Enclosure: NEMA 1

Volts: 120/208 Wye Phases: 3 Wires: 4

скт	Circuit Description	Trip	Poles	4	4	E	3	C
1	Receptacle CONFERENCE AREA E136	20 A	1	1440	1048			
3	Receptacle CONFERENCE AREA E136	20 A	1			1080	1048	
5	Receptacle OFFICE E149	20 A	1					1440
7	Receptacle ISO E139	20 A	1	540 VA	602 VA			
9	Receptacle DIRECTOR E140	20 A	1			1080	1440	
11	Receptacle DIRECTOR E140	20 A	1					1080
13	Receptacle RECEPT E108	20 A	1	720 VA	540 VA			
15	Receptacle Room E108, 102	20 A	1			1440	2500	
17	Receptacle Room 190	20 A	1					900 VA
19	Receptacle RECEPT E108	20 A	1	720 VA	360 VA			
21	Receptacle Room E107, E152	20 A	1			540 VA	1800	
23	Receptacle FOOD ORDER/ OFFICE E155	20 A	1	لے	\frown	γ	Y	540 VA
25	Receptacle Room E154, E153	20 A	1	360 VA	1080			
27	Receptacle WARE WASH E118	20 A	1	7		360 VA	0.VA	
29	Receptacle COMM 111	20 A	1					1920
31	Receptacle COMM 111	20 A	1	1920	0 VA			
33	Receptacle COMM 111	20 A	1			1920	0 VA	
35	Receptacle COMM 111	20 A	1					1920
37	Space			0 VA	0 VA			
39	Space					0 VA	0 VA	
41	Space							0 VA
		Tota	al Load:	9189	9 VA	1306	2 VA	1180
		Tota	I Amps:	77	A	11:	2 A	102

Legend:

Connected Load	Demand Factor	Estimated Demand	Panel	Totals
5000 VA	100.00%	5000 VA		
2496 VA	100.00%	2496 VA	Total Conn. Load:	33912 VA
0 VA	0.00%	0 VA	Total Est. Demand:	27338 VA
1445 VA	100.00%	1445 VA	Total Conn.:	94 A
360 VA	100.00%	360 VA	Total Est. Demand:	76 A
23160 VA	71.59%	16580 VA		
1800 VA	100.00%	1800 VA		
	5000 VA 2496 VA 0 VA 1445 VA 360 VA 23160 VA	5000 VA 100.00% 2496 VA 100.00% 0 VA 0.00% 1445 VA 100.00% 360 VA 100.00% 23160 VA 71.59%	5000 VA 100.00% 5000 VA 2496 VA 100.00% 2496 VA 0 VA 0.00% 0 VA 1445 VA 100.00% 1445 VA 360 VA 100.00% 360 VA 23160 VA 71.59% 16580 VA	5000 VA 100.00% 5000 VA 2496 VA 100.00% 2496 VA Total Conn. Load: 0 VA 0.00% 0 VA Total Conn. Load: 1445 VA 100.00% 1445 VA Total Conn.: 360 VA 100.00% 360 VA Total Conn.: 23160 VA 71.59% 16580 VA Total Est. Demand:

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Description	СКТ
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R COMPRESSOR	8
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ER COMPRESSOR	14
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D 445	32
P 115	34
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R 117 CONDENSOR	38
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Description	СКТ
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A/3 POLE BREAKER)	14
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Totals

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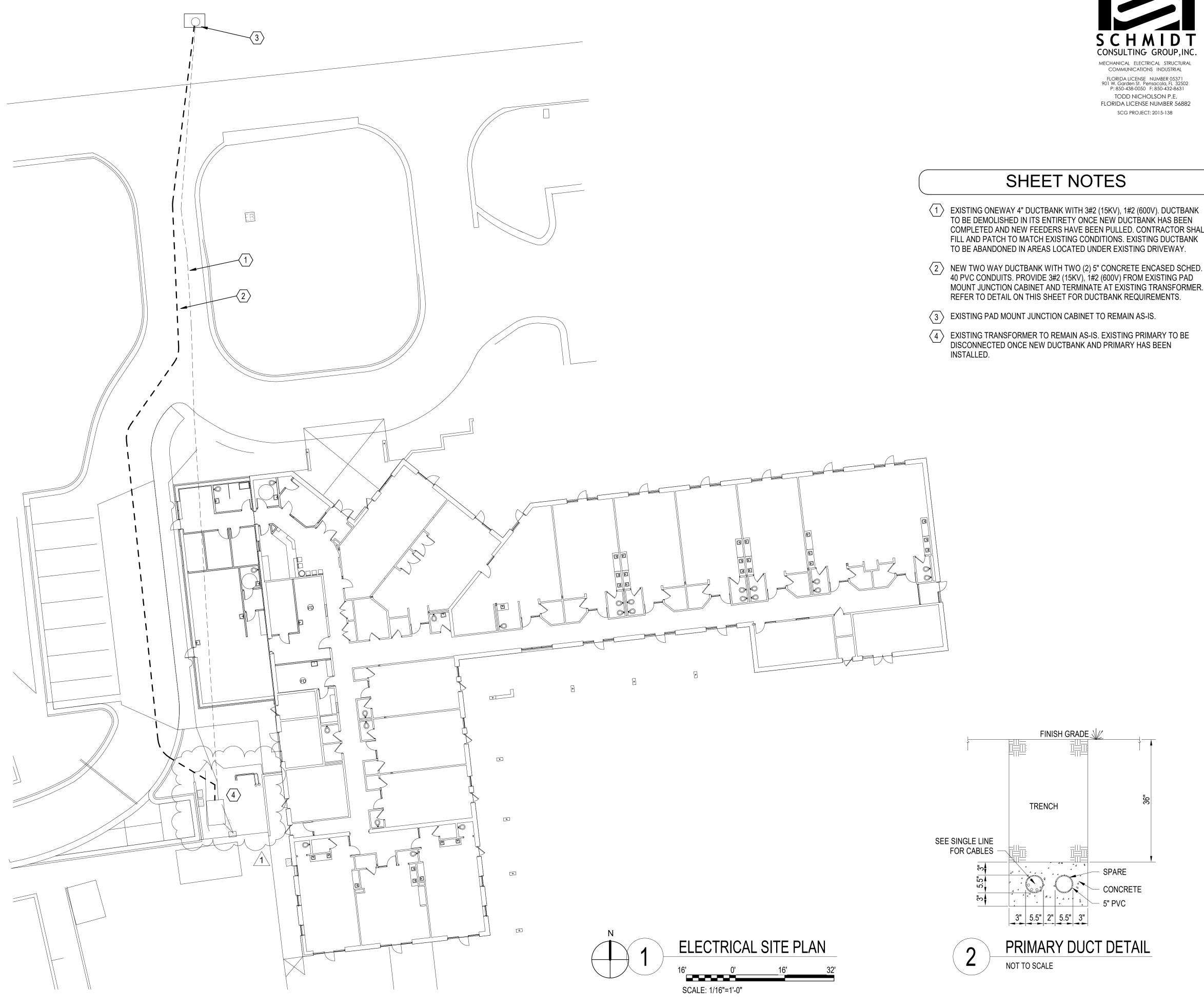


FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 TODD NICHOLSON P.E. FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138

(0	Poles	Trip	Circuit Description	СКТ
		2	20 A	DCU/DAC-1	2
					4
40	987 VA	1	20 A	LIGHTING	6
		1	20 A	LIGHTING	8
		1	20 A	Receptacle OFFICE E106	10
80	400 VA	1	20 A	ATU K1,K2,J,I	12
		1	20 A	Receptacle EXTERIOR	14
		2	20 A	Electric Clothes Dryer COMM 111	16
D VA	2500				18
		1	20 A	AUTOMATIC DOOR OPENER	20
\frown			20 A	ACCESS CONTROL BARRIER	22
D VA	180 VA	1 Y	20 A	Receptacle V V V	<u>2</u> 4
		1	20 A	RECEPT 103	26
\nearrow	$ \land $	1	20 A		28
20	0 VA	1	20 A	Spare	30
		1	20 A	Spare	32
		1	20 A	Spare	34
20	0 VA	1	20 A	Spare	36
		3	30 A	TVSS	38
					40
VA	0 VA				42
1180	9 VA				

REV # DATE DESCRIPTION APP'D	1 2021.06.17 PPI RESPONSES				
APPROVED		CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
		BLDG. & REPAIR CHILD DEVELOPMENI	CENTER BLDG. 90353	EI ECTEICAL SCHEDIIL ES	
	AIR FORCE SPECIAL	ODFRATIONS COMMAND			
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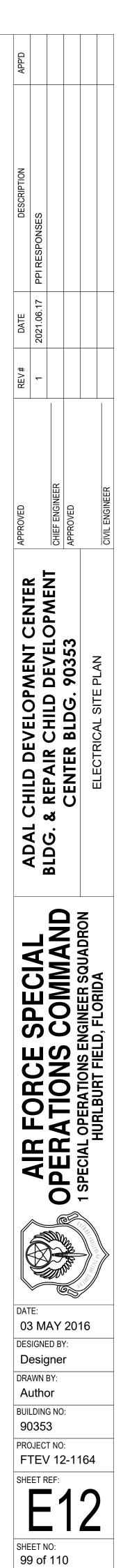
SHEET NO: 98 of 110





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- TO BE DEMOLISHED IN ITS ENTIRETY ONCE NEW DUCTBANK HAS BEEN COMPLETED AND NEW FEEDERS HAVE BEEN PULLED. CONTRACTOR SHALL FILL AND PATCH TO MATCH EXISTING CONDITIONS. EXISTING DUCTBANK TO BE ABANDONED IN AREAS LOCATED UNDER EXISTING DRIVEWAY.
- $\langle 2 \rangle$ NEW TWO WAY DUCTBANK WITH TWO (2) 5" CONCRETE ENCASED SCHED. 40 PVC CONDUITS. PROVIDE 3#2 (15KV), 1#2 (600V) FROM EXISTING PAD MOUNT JUNCTION CABINET AND TERMINATE AT EXISTING TRANSFORMER. REFER TO DETAIL ON THIS SHEET FOR DUCTBANK REQUIREMENTS.
- $\langle 4 \rangle$ EXISTING TRANSFORMER TO REMAIN AS-IS. EXISTING PRIMARY TO BE DISCONNECTED ONCE NEW DUCTBANK AND PRIMARY HAS BEEN INSTALLED.



	TELECOMMUNICATIONS LEGEND
	LECOMMUNICATIONS LEGEND
AC D3V1	 COMMUNICATIONS OUTLET (CO). MOUNT ON WALL AT 18" AFF UNLESS SUBSCRIPTED OTHERWISE. SUBSCRIPTS INDICATE AS FOLLOWS: AC - MOUNT ABOVE COUNTER. COORDINATE WITH CASEWORK PRIOR TO ROUGH-IN. 84" - MOUNTING HEIGHT AFF. DDC - DIRECT DIGITAL CONTROL, ROUTE CONDUIT TO CABLE TRAY. COORDINATE WITH MECHANICAL CONTRACTOR FOR MOUNTING HEIGHT REQUIREMENTS.
	D4 CO TYPE IDENTIFICATION TAG. THE NUMBER AFTER THE D INDICATES THE QUANTITY OF DATA/VOICE JACKS EACH JACK SHALL HAVE A DEDICATED HORIZONTAL CABLE HOMERUN. SEE TELECOMMUNICATIONS DETAILS AND NOTES FOR COLOR CODING AND OTHER OUTLET REQUIREMENTS.
	 WALL PHONE COMMUNICATIONS OUTLET (CO). MOUNT ON WALL AT 48" AFF SUBSCRIPTED OTHERWISE. SUBSCRIPTS INDICATE AS FOLLOWS: W - MOUNT AT 48" AFF. PROVIDE (1) DEDICATED HORIZONTAL CABLE HOMERUN. SEE TELECOMMUNICATION DETAILS AND NOTES FOR COLOR CODING AND OTHER OUTLET REQUIREMENTS
$\left(\right)$	CATV OUTLET CONDUIT, BACK BOXES AND PULL STRINGS ONLY. CABLING, TAPS, SPLITTERS, ETC. PROVIDED BY OTHERS.
(PDAV)	UTILITY FLOOR BOX. SEE DETAILS.
J	JUNCTION BOX REFER TO KEY NOTES
(\mathbf{S})	CEILING MOUNTED PAGING SPEAKER, REFER TO DETAILS AND SINGLE LINE DIAGRAM.
$\langle v \rangle$	WALL MOUNTED VOLUME CONTROL SWITCH. MOUNT AT 48" AFF. REFER TO DETAILS AND SINGLE LINE DIAGRAM.
\bigcirc	IDS DOOR CONTACT ROUGH-IN. HOMERUN CONDUIT TO SERVING IDS PANEL. REFER TO DETAIL.
	CABLE TRAY.
	CONDUIT TERMINATION TO INSULATED BUSHING. SHEET NOTE TAG. - LEADERS.

DIVISION 27 CONTRACTOR RESPONSIBILITIES AND COORDINATION NOTE

THIS LIST IS NOT COMPREHENSIVE. THE STRUCTURED CABLING SYSTEM CONTRACTOR (SCSC) SHALL BE RESPONSIBLE FOR ANY ADDITIONAL REQUIREMENTS SHOWN ON THE TELECOMMUNICATIONS DRAWINGS AND/OR REQUIRED TO PROVIDE A COMPLETE SYSTEM. GROUNDING:

THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR INSTALLING THE GROUNDING BUSBARS AS SHOWN ON THE DRAWINGS AND CONNECTING THEM TO THE BUILDINGS MAIN ELECTRICAL SERVICE GROUND. THE EC SHALL ALSO BE RESPONSIBLE FOR ALL BONDING

- BACKBONES AND GROUNDING ALL BACKBONE CONDUIT AND CABLE TRAY. THE STRUCTURED CABLING SYSTEM CONTRACTOR (SCSC) SHALL BE
- RESPONSIBLE FOR GROUNDING ALL RACKS, VOICE BLOCKS, PROTECTOR BLOCKS, CABLE LADDER TRAY IN COMMUNICATION ROOMS TO THE

LOCAL TGB IN THE TR. 2. FIRESTOPPING:

THE EC SHALL BE RESPONSIBLE FOR FIRESTOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING. THE SCSC SHALL BE RESPONSIBLE FOR FIRESTOPPING INSIDE THE RACEWAYS AFTER INSTALLATION OF CABLING IS COMPLETE.

3. RACEWAYS: THE EC SHALL BE RESPONSIBLE FOR ALL BACKBONE CONDUIT, HORIZONTAL CONDUIT, CABLE TRAYS (EXCEPT PERIMETER CABLE TRAYS AND LADDER TRAYS IN TRs) AND CABLING PATHWAYS. THIS IS TO INCLUDE ALL INTERIOR AND EXTERIOR CONDUIT, ALL WALL PENETRATIONS AND CONDUIT SLEEVES WHETHER SHOWN ON THE DRAWINGS OR AS REQUIRED TO PENETRATE FULL HEIGHT PARTITIONS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. CONDUIT PATHWAYS SHALL INCLUDE ALL DEVICE BOXES, PULLBOXES, PULLTAPE, PULLSTRINGS, CONDUIT MARKINGS, ETC. PROVIDE END BUSHINGS ON ALL CONDUIT. THE SCSC SHALL BE RESPONSIBLE FOR THE FOLLOWING ITEMS IN TELECOMMUNICATIONS ROOMS ONLY: RUNWAYS, PERIMETER CABLE TRAY, D-RINGS, CABLE TIES AND/OR ANY OTHER REQUIREMENTS FOR ROUTING AND SECURING CABLE IN THE TELECOMMUNICATIONS ROOMS. THE SCSC SHALL PROVIDE ANY INNERDUCT IN BACKBONE CONDUITS AS REQUIRED IN THE SPECIFICATIONS AND DRAWINGS.

4. COMMUNICATIONS CABLING: THE SCSC SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING, TERMINATING, TESTING AND LABELING ALL COMMUNICATIONS CABLES.

5. COMMUNICATIONS WORK AREA OUTLETS: THE EC SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACKBOXES ASSOCIATED WITH THE WAOS. SCSC SHALL PROVIDE ALL CABLING, OUTLET DEVICES AND FACEPLATES.

6. BACKBOARDS: THE SCSC SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL BACKBOARDS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE A COMPLETE SYSTEM. THE EC SHALL BE RESPONSIBLE FOR ROUGH-IN OF ELECTRICAL CONDUIT PRIOR TO INSTALLATION OF BACKBOARDS. ALL POWER CONDUIT SHALL BE CONCEALED IN WALL BEHIND ALL BACKBOARDS. BACKBONE CONDUIT SHALL BE EXPOSED.

7. INTERBUILDING & EXTERIOR WORK: 7.1. COORDINATE ALL WORK WITH THE APPROPRIATE PROVIDERS.

CABLE TRAY NOTE

- 1. ANY CABLES INSTALLED IN CABLE TRAY SYSTEMS NOT SPECIFICALLY SHOWN ON THESE DRAWINGS SHALL BE APPROVED BY THE OWNER/ENGINEER PRIOR TO INSTALLATION.
- 2. COMPONENTS AND INSTALLATION SHALL COMPLY WITH NFPA 70 "NATIONAL ELECTRICAL CODE".
- 3. COORDINATE CABLE TRAY INSTALLATION WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, DUCTWORK, CONDUITS, PIPING AND ALL OTHER TRADES PRIOR TO ORDERING AND INSTALLING.
- 4. ALL CABLE TRAY COMPONENTS SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.
- 5. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 6. REMOVE BURRS AND SHARP EDGES.
- 7. MAKE CHANGES IN HEIGHT AND DIRECTION WITH STANDARD CABLE TRAY FITTINGS.
- 8. FIRESTOP AT PENETRATIONS OF FIRE AND SMOKE BARRIERS.
- 9. INSTALL TRAYS WITH AS MUCH AS POSSIBLE WORKING SPACE TOP AND BOTH SIDES FOR CABLE INSTALLATION.
- 10. ELECTRICALLY GROUND CABLE TRAYS AND ENSURE CONTINUOUS ELECTRICAL CONDUCTIVITY OF CABLE TRAY SYSTEM. PROVIDE BONDING JUMPERS BETWEEN CABLE TRAY SECTIONS. PROVIDE A #4 AWG GROUNDING CONDUCTOR FOR EACH RUN OF CABLE TRAY - ATTACH TO TRAY WITH COMPRESSION GROUND LUG - RUN CONTINUOUS IN EMT CONDUIT AND BOND TO BUILDING MAIN ELECTRICAL SERVICE GROUND.
- 11. SUBMIT CUT SHEETS OF ALL CABLE TRAY COMPONENTS TO ENGINEER PRIOR TO ORDERING MATERIALS.

EXISTING CONSTRUCTION.



ABBREVIATIONS

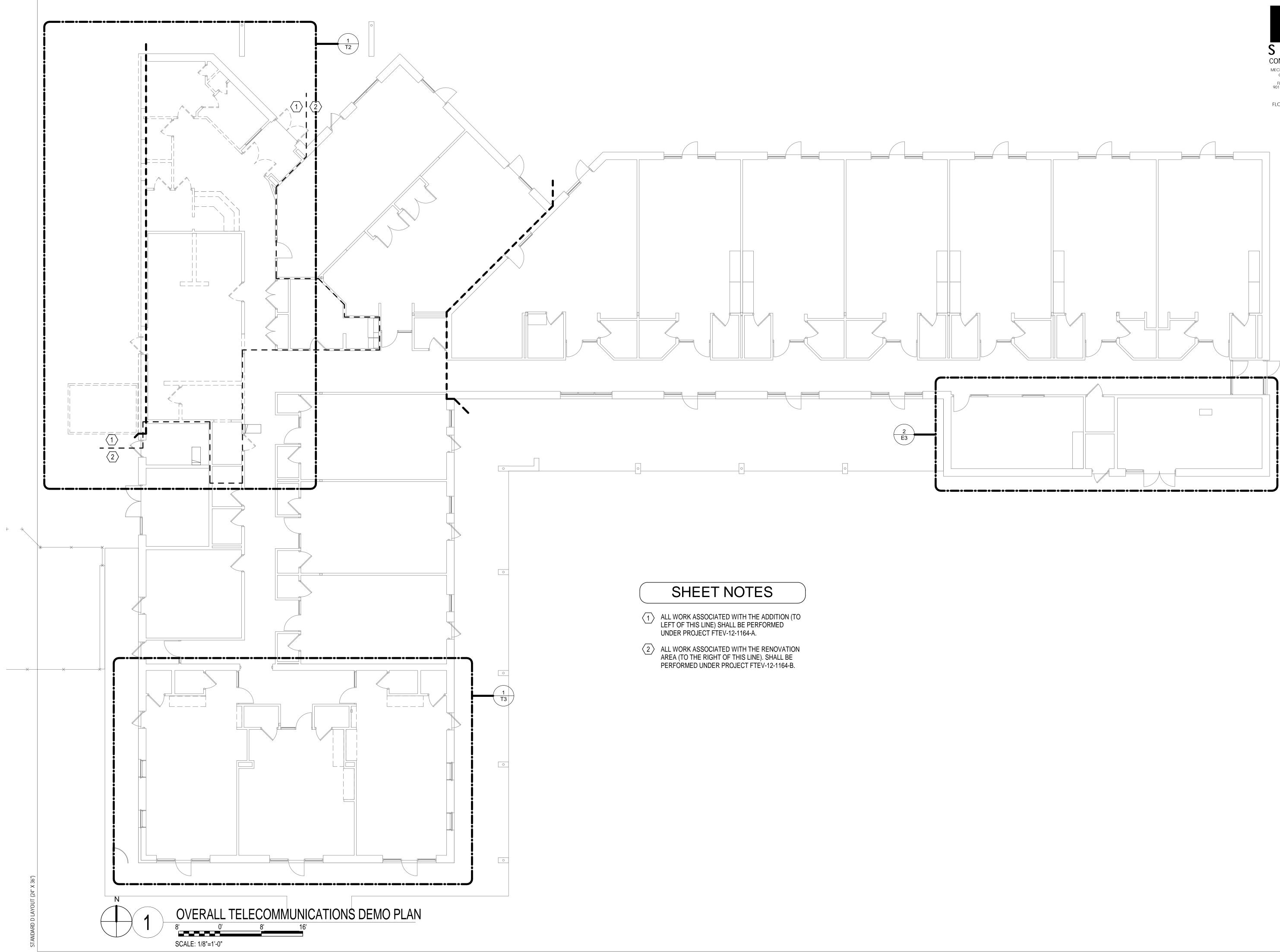
- AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE **BLDG BUILDING** C CONDUIT CFGI CONTRACTOR FURNISHED GOVERNMENT INSTALLED C/L CENTERLINE CLG CEILING
- CO COMMUNICATIONS OUTLET
- EC ELECTRICAL CONTRACTOR EF ENTRANCE FACILITY
- EX EXISTING TO REMAIN
- EMT ELECTRICAL METALLIC TUBING FACP FIRE ALARM SYSTEM CONTROL PANEL
- FLR FLOOR
- GND GROUND
- GEC GROUNDING ELECTRODE CONDUCTOR
- JB JUNCTION BOX MCE MAIN COMMUNICATIONS EQUIPMENT ROOM
- M/M MULTIMODE
- MNT MOUNTING HEIGHT
- NEC NATIONAL ELECTRICAL CODE
- NIC NOT IN CONTRACT GFOI GOVERNMENT FURNISHED GOVERNMENT INSTALLED GFCI GOVERNMENT FURNISHED CONTRACTOR INSTALLED
- RM ROOM RGS RIGID GALVANIZED STEEL CONDUIT
- RNC RIGID NON-METALLIC CONDUIT
- SCSCSTRUCTURED CABLING SYSTEM CONTRACTOR S/M SINGLEMODE
- TR TELECOMMUNICATIONS ROOM TMGB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TYP TYPICAL
- UL UNDERWRITERS' LABORATORIES
- UNO UNLESS NOTED OTHERWISE WAO WORK AREA OUTLET

FIRESTOPPING NOTE

THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF ALL FLOORS AND ALL WALLS WHICH EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. FIRESTOPPING SHALL BE ACCOMPLISHED AFTER ALL CABLES ARE PULLED (ALL SYSTEMS) USING UL CLASSIFIED SYSTEMS WITH FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY PENETRATED. FIRESTOP SYSTEMS SHALL BE 3M, NELSON OR ENGINEER APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FLOOR AND WALL PENETRATION REQUIRED FOR THIS PROJECT. ALL OTHER PENETRATIONS OR OPENINGS IN NON-FIRE RATED WALLS SHALL BE REPAIRED AND SEALED WITH MATERIALS TO MATCH THE

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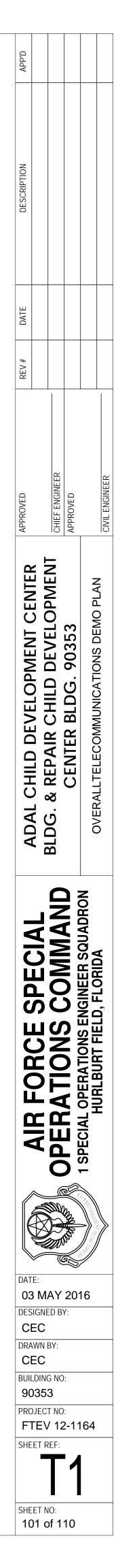
DATE DESCRIPTION APP'D	2021.06.17 PPI RESPONSES				
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APPROVED		CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
		DLUG. & REFAIR CHILD DEVELOFMENI	CENTER BLDG. 90353	TELECOMMINICATIONS LECEND AND NOTES	
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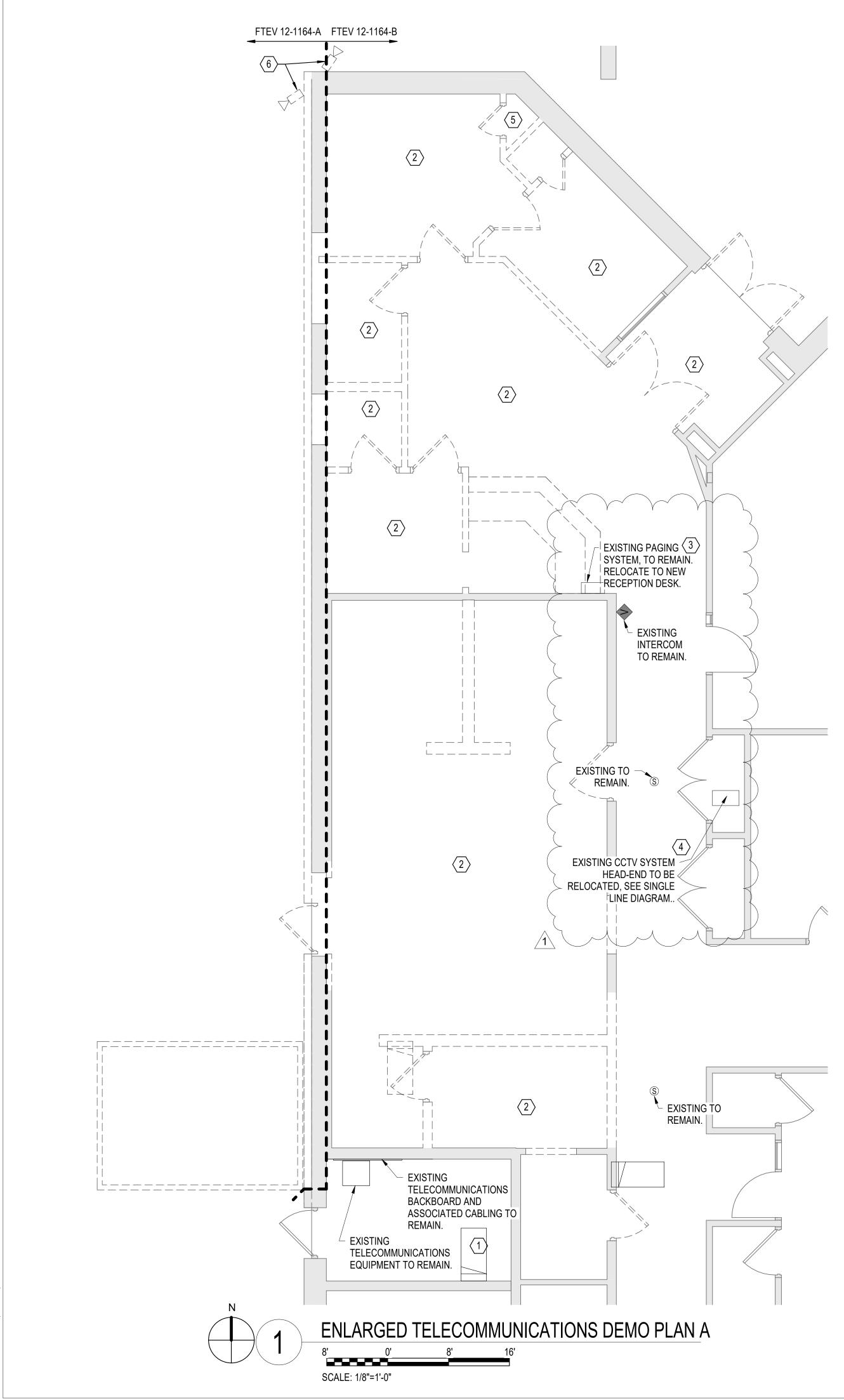




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FANDARD D LAYOUT (24" X 36"

DEMOLITION SHEET NOTES

- 1 EXISTING TELECOMMUNICATIONS ROOM SHALL REMAIN OPERATIONAL. REFER TO TELECOMMUNICATIONS PLANS FOR EXISTING LAYOUT AND NEW WORK. COORDINATE WITH GOVERNMENT 4 WEEKS PRIOR TO ANY WORK WITHIN THIS AREA. GOVERNMENT TO INSTALL NEW FIBER AND COPPER TO NEW TELECOMMUNICATIONS ROOM 111. REFER TO SINGLE LINE DIAGRAM.
- 2 DEMOLISH ALL EXISTING TELECOMMUNICATIONS HORIZONTAL AND SPEAKER CABLING. CONDUIT, DEVICES,ETC SERVING SPACES UNLESS OTHERWISE NOTED.
- 3 EXISTING PAGING SYSTEM TO REMAIN AND BE PROTECTED. REFER TO NEW WORK PLAN FOR RELOCATION.
- 4 EXISTING CCTV SYSTEM TO REMAIN AND BE PROTECTED. REFER TO NEW WORK PLAN AND SINGLE LINE DIAGRAM FOR RELOCATION INFORMATION.
- 5 EXISTING TELECOMMUNICATIONS ROOM. GOVERNMENT SHALL BE CONTACTED 4 WEEKS PRIOR TO DEMOLITION. GOVERNMENT SHALL MOVE AND RELOCATE EXISTING TELECOMMUNICATIONS ROOM INFRASTRUCTURE TO NEW COMMUNICATIONS ROOM.
- 6 CONTRACTOR SHALL SALVAGE EXISTING CAMERA TO L TO ALLOW FOR DEMOLITION OF WEST WALL. SEE NEW WORK PLAN FOR RE-INSTALLATION LOCATION.

DEMOLITION GENERAL NOTES

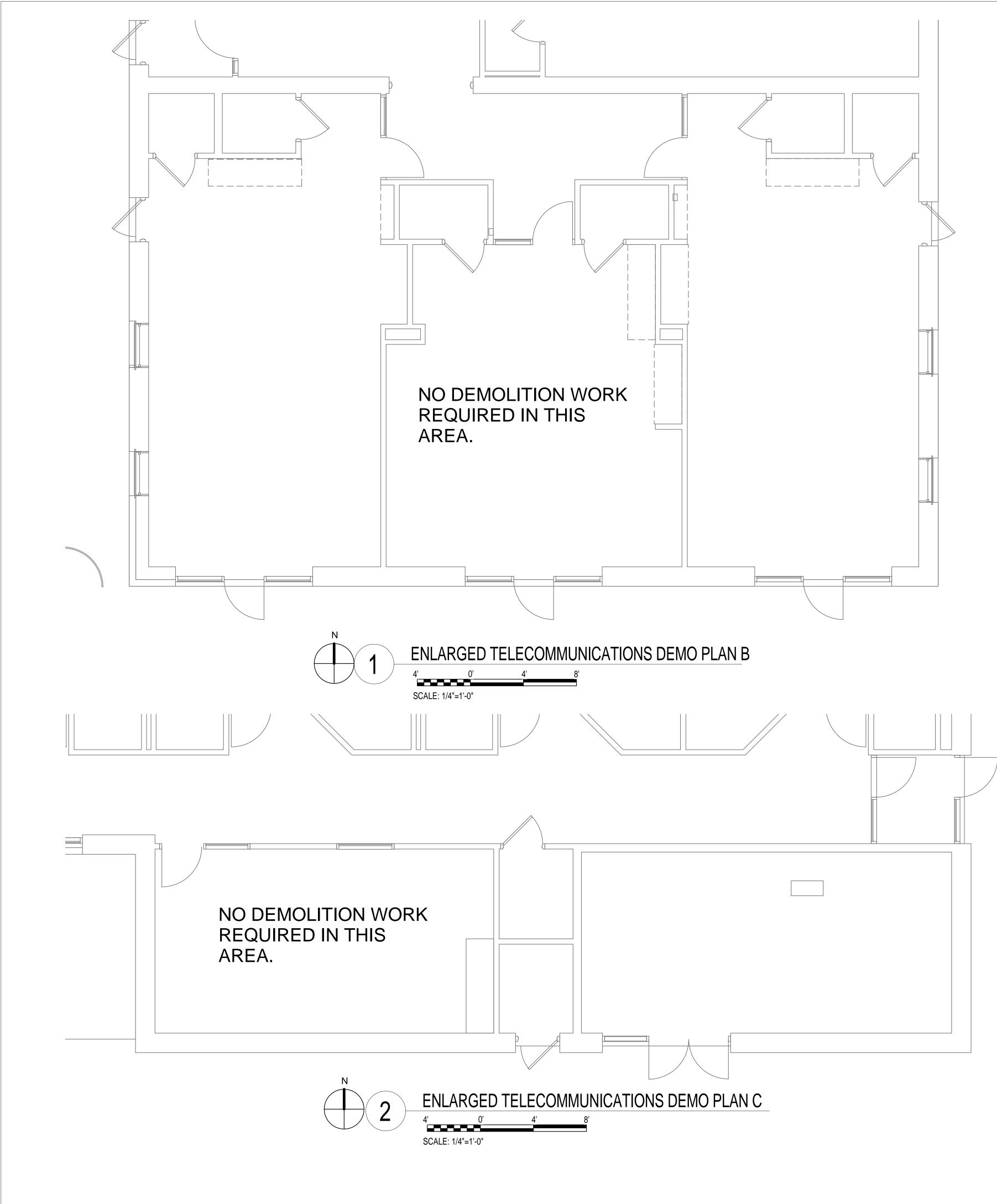
NOTIFY BASE COMM ONCE 4" CONDUIT HAS BEEN INSTALLED (SEE SHEET T5) SO BASE COMM CAN START CROSSING OVER OUTSIDE PLANT INFRASTRUCTURE. DO NOT CUT CABLES. BASE COMM WILL PERFORM THE REMOVAL OF CABLING WITHIN THE DEMOLISHED AREA TO FACILITATE THE REMOVAL OF THE OLD 4" CONDUIT INTO THE BUILDING.



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APPROVED REV#	~	CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
		DLUG. & REFAIR CHILD DEVELOFMENI	CENTER BLDG. 90353	ENI ARGED TELECOMMUNICATIONS DEMO PLAN A	
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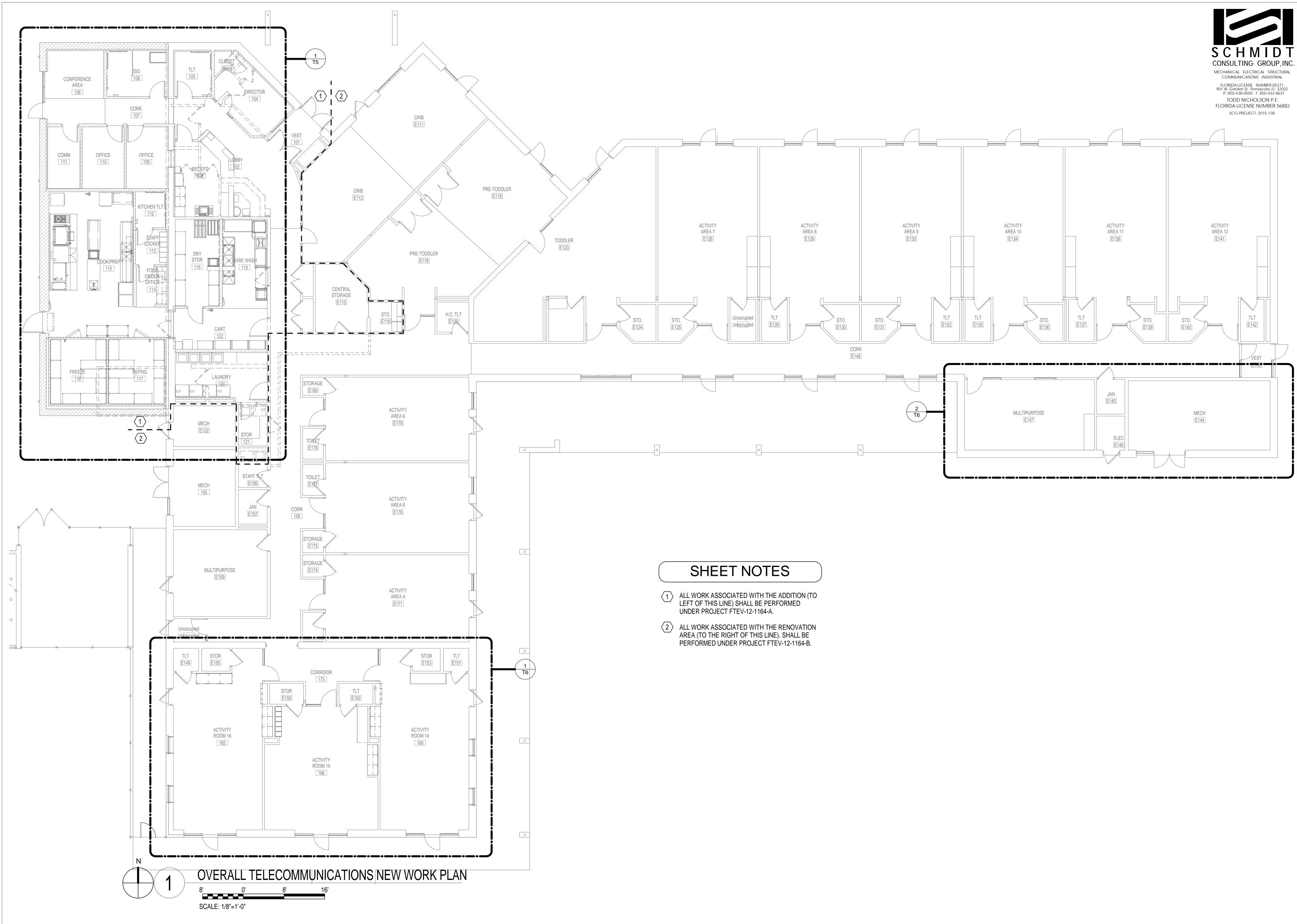


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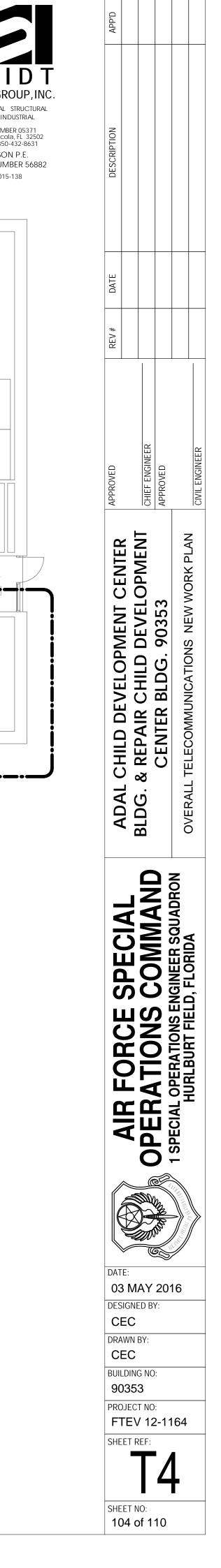
TODD NICHOLSON P.E. FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138

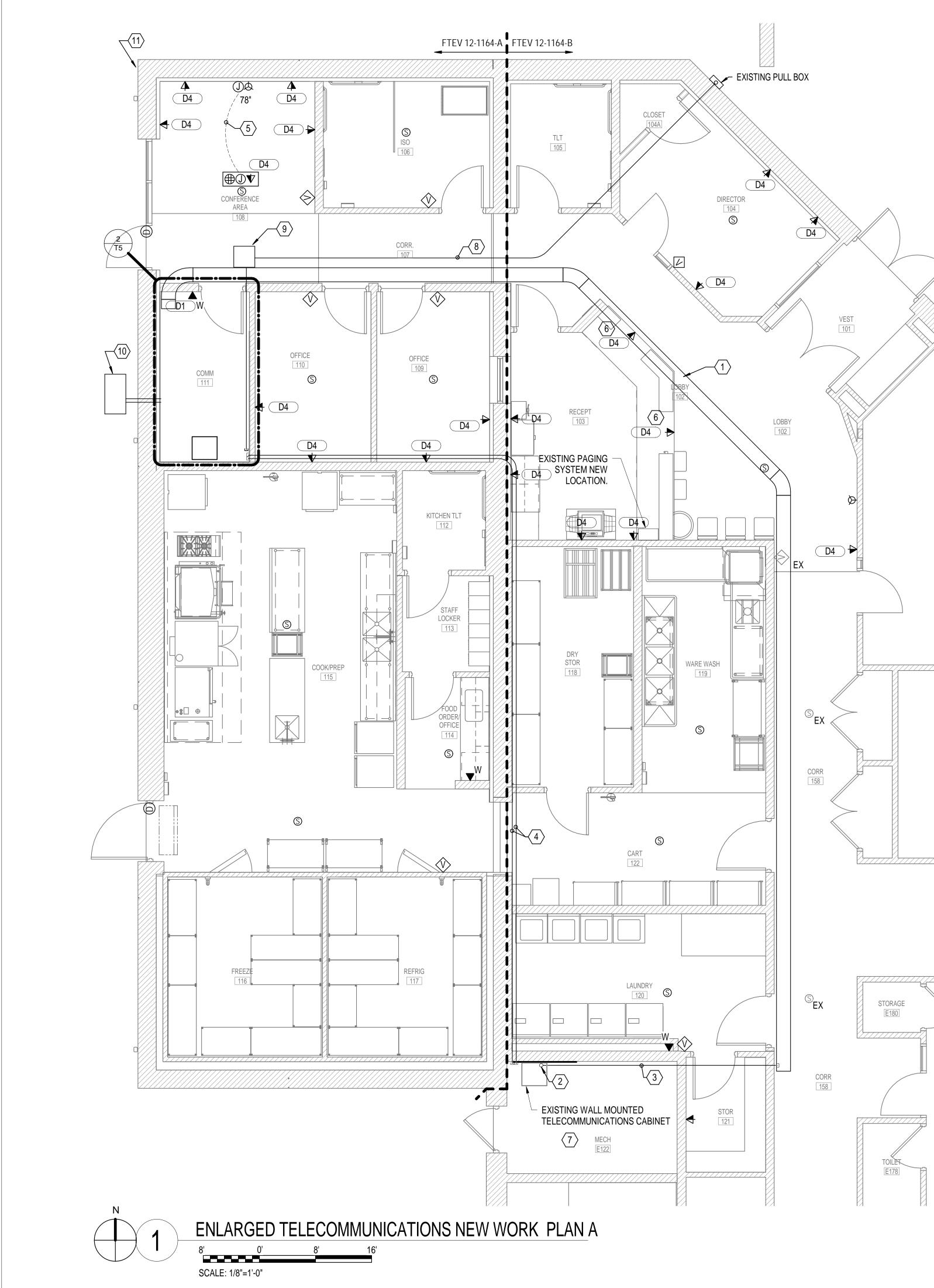
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STANDARD D LAYOUT (24" X 3

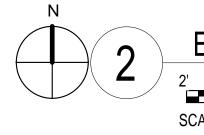




SHEET NOTES

- (1) 12" CABLE TRAY, WIRE MESH TYPE, 4" SIDE RAIL. MOUNT ABOVE LAY-IN CEILING IN APPROXIMATE LOCATIONS INDICATED. SUPPORT FROM STRUCTURE AT A MINIMUM OF 8'-0" ON CENTER AND WITHIN 1'-0" OF EACH END WITH TWO 1/2" DIAMETER ALL THREAD RODS AND HANGER KITS. USE TRAPEZE HANGER FOR CABLE TRAY, DO NOT CENTER MOUNT HANGER. HANGER SHALL SUPPORT FULL WIDTH OF CABLE TRAY AND BE HUNG FROM CEILING WITH ALL THREAD RODS. FOR HORIZONTAL TEE'S AND 90 DEGREE TURNS FOR CABLE TRAY, FIELD CUT AND FABRICATED. PROVIDE RADIAL SWEEPING TURNS. SEE CABLE TRAY NOTES.
- $\langle 2 \rangle$ (1) 3" CONDUITS STUBBED DOWN 4" BELOW ACCESSIBLE CEILING. PROVIDE END BELL PUSHING.
- $\langle 3 \rangle$ (1) 3" CONDUITS ROUTED ABOVE ACCESSIBLE CEILING FOR COMMUNICATIONS CABLING. COORDINATE WITH ALL RESPECTIVE DISCIPLINES. FIRESTOP/SEAL PENETRATIONS AS REQUIRED. REFER TO FIRESTOPPING NOTES ON PLANS AND SPECIFICATIONS.
- $\langle 4 \rangle$ (2) 3" CONDUITS ROUTED ABOVE ACCESSIBLE CEILING FOR GFGI COMMUNICATIONS CABLING. PROVIDE A 1-1/2" INNERDUCT WITHIN (1) OF THE (2) CONDUITS. COORDINATE WITH ALL RESPECTIVE DISCIPLINES. FIRESTOP/SEAL PENETRATIONS AS REQUIRED. REFER TO FIRESTOPPING NOTES ON PLANS AND SPECIFICATIONS.
- $\langle 5 \rangle$ PROVIDE(1) 1-1/2" CONDUIT BELOW FLOOR BETWEEN FLOORBOX AND WALL MOUNTED JUNCTION BOX (4x4) MOUNTED AT 78" AFF AND CONTINUE TO ABOVE ACCESSIBLE CEILING TURN CONDUIT WITH INSULATED BUSHING AND PROVIDE PULL STRING. PROVIDE BLANK PLATE ON JUNCTION BOX. REFER TO FLOOR BOX DETAILS.
- $\langle 6 \rangle$ INSTALL COMMUNICATIONS OUTLET IN CASEWORK BELOW COUNTER AS DIRECTED IN FIELD. RUN CABLES CONCEALED IN CASEWORK. HOMERUN (1) 1" SCHEDULE 40 PVC CONDUIT FROM, UNDERFLOOR TO NEAREST WALL, TURN UP CONCEALED IN WALL TO 4" ABOVE FLOOR, CONVERT TO EMT, THEN RUN CONCEALED UP IN WALL AND OVERHEAD ABOVE ACCESSIBLE CEILING. SEE UNDERGROUND CABLING TRANSITION DETAIL.
- $\langle 7 \rangle$ TELECOMMUNICATIONS CABLING AND EQUIPMENT SHALL REMAIN AND PROTECTED THROUGHOUT CONSTRUCTION.
- $\langle 8 \rangle$ (1) 4" CONDUIT ROUTED ABOVE ACCESSIBLE CEILING FOR GFGI COMMUNICATIONS CABLING. ROUTE CONDUIT FROM EXISTING EXTERIOR MOUNTED PULL BOX, AND ROUTE UP WALL AND PUNCH THROUGH ABOVE ACCESSIBLE CEILING. ROUTE TO NEW TELECOMMUNICATIONS ROOM AND TURN DOWN 1" ABOVE CABLE LADDER TRAY. PROVIDE (1) 3" 3-CELL MAXCELL MESH INNERDUCT WITHIN THE 4" CONDUIT. COORDINATE WITH ALL RESPECTIVE DISCIPLINES. FIRESTOP/SEAL PENETRATIONS AS REQUIRED. REFER TO FIRESTOPPING NOTES ON PLANS AND SPECIFICATIONS.
- (9) PROVIDE A 18"X18"X12" PULL BOX WITH COVER.
- (10) PROVIDE A 30W"X 17L"X24"D HANDHOLE WITH (2) 4" CONDUITS AT 36" BELOW GARDPROVIDE. PROVIDE WARNING PROTECTION TAPE 12" BELOW GRADE. TURN CONDUITS UP 4" ABOVE FINISHED FLOOR.
- (11) RE-INSTALL SALVAGED CAMERA ON NEW FASCA, RE-CONNECT CAMERA TO CCTV SYSTEM AND ENSURE PROPER OPERATION.

-CABLE TRAY ENTERING ROOM NEW 3/4" PLYWOOD BACKBOARD MOUNTED ON 3 WALLS. LOCATION FOR 66-BLOCKS -LOCKABLE CCTV CABINET 12" WIDE CABLY-LADDER TRAY, TYPICAL PROVIDE 7' ENCLOSED LOCKABLE CABINET W/ -(2) 3" BACKBONE CONDUITS INTERNAL VERT. WIRE ENTERING ROOM ABOVE MANAGMENT ON BOTH ACCESSIBLE CEILING. SIDES.PROVIDE MIN OF 250 CFM FAN. PROVIDE DEDICATED 20 AMP CIRCUIT WITHIN -TELECOMMUNICATIONS GROUNDING BUSBAR GFCI RACK..





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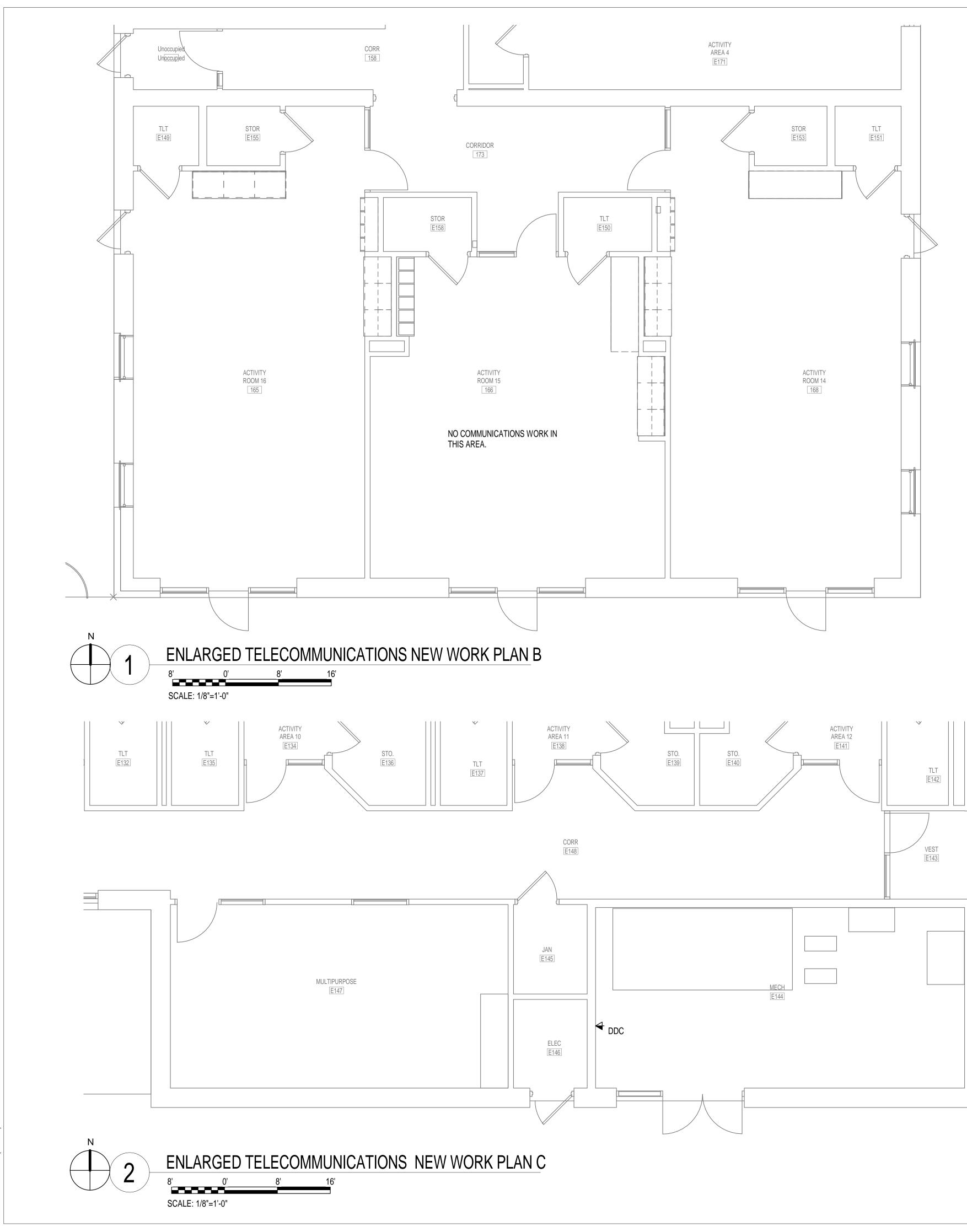
FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138



ENLARGED TELECOMMUNICATIONS ROOM NEW WORK

MOUNTED AT 18"

SCALE: 1/2"=1'-0"



STANDARD D LAYOUT (24" X 36")



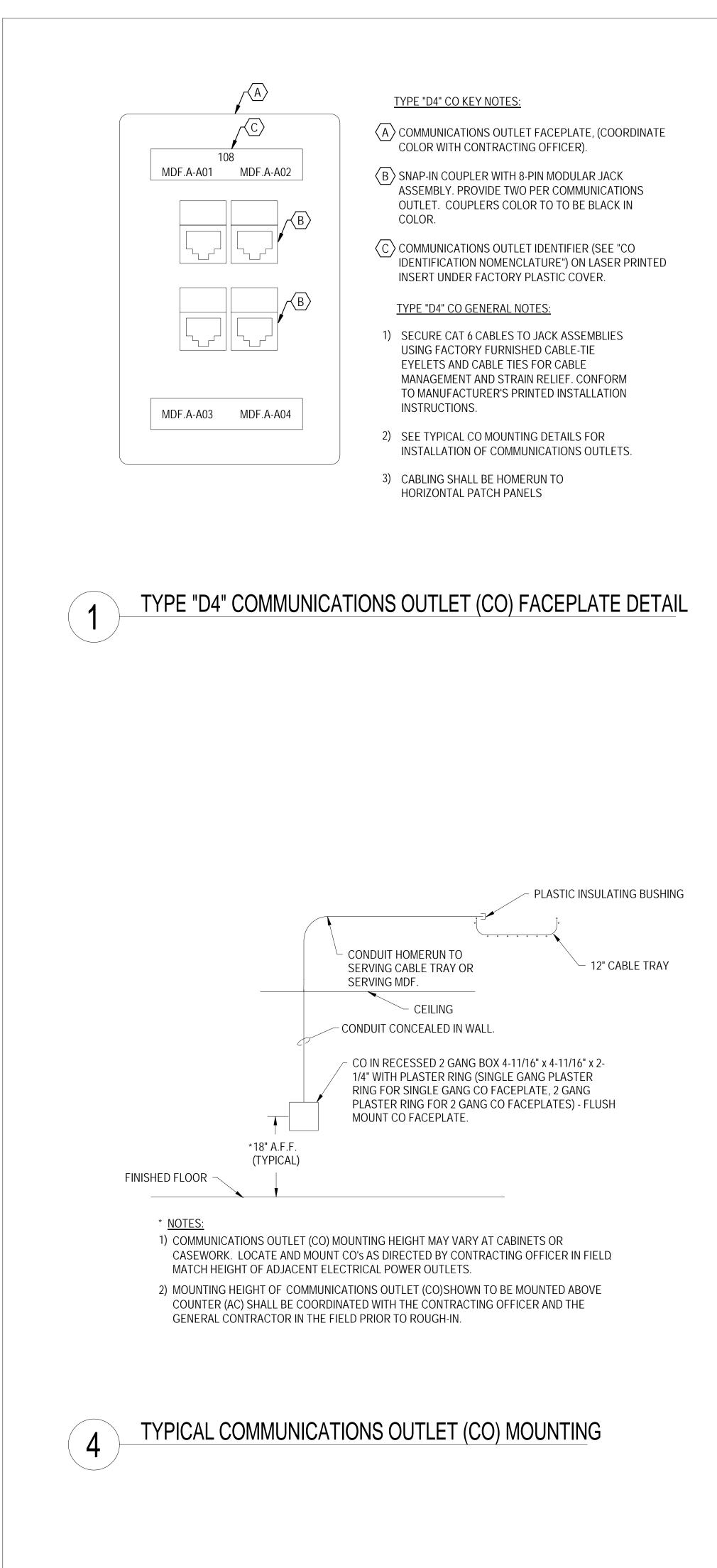
MECHANICAL ELECTRICAL STRUCTURAL COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631

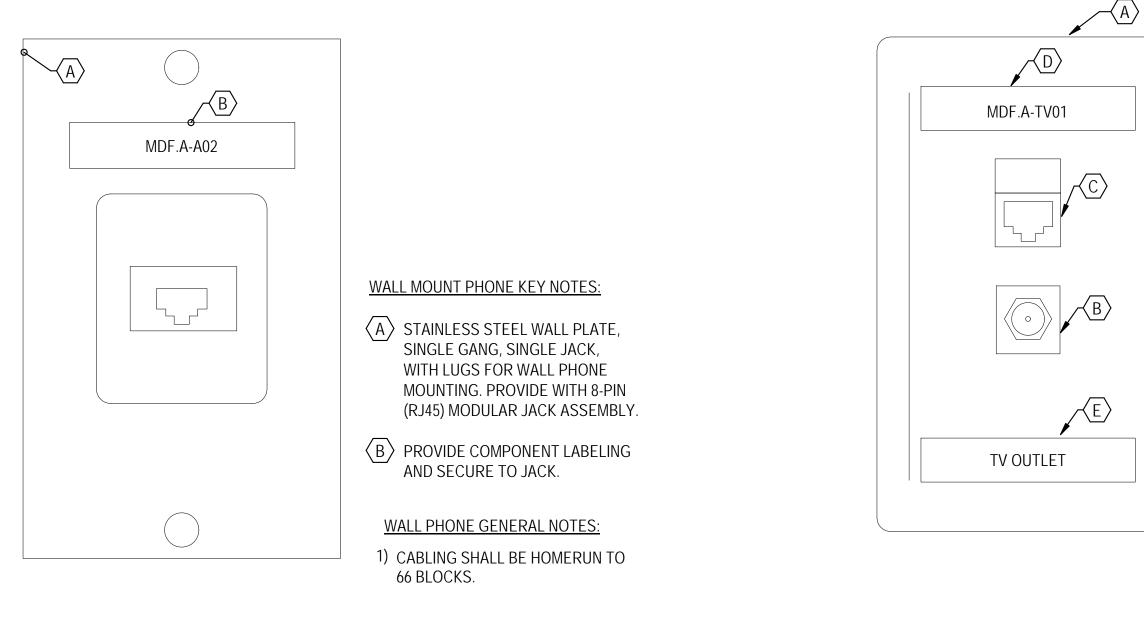
TODD NICHOLSON P.E. FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138

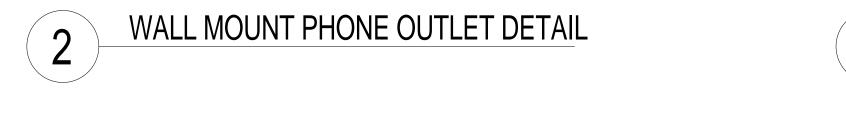


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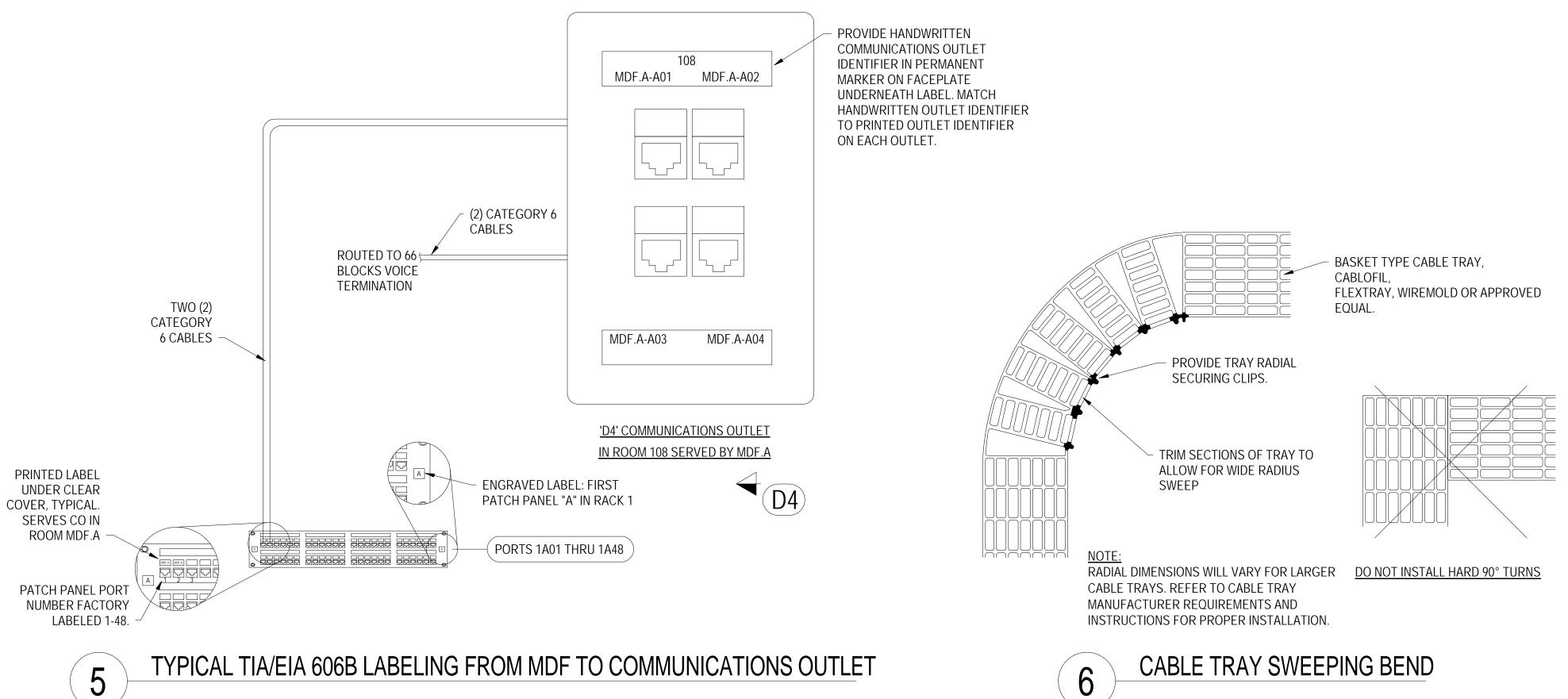
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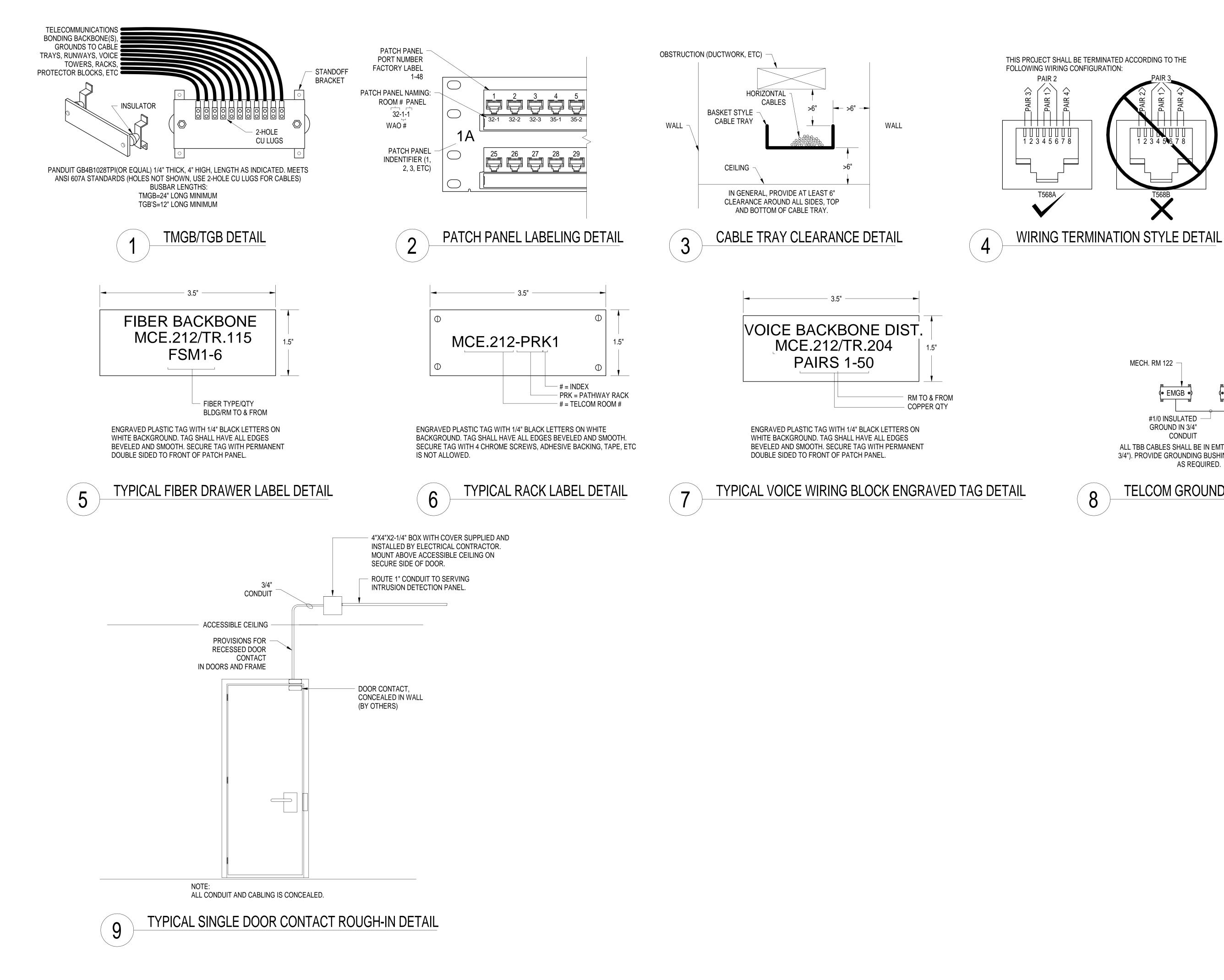






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	TYPE "TV" CO KEY NOTES:	SCHMIDT CONSULTING GROUP, INC. MECHANICAL ELECTRICAL STRUCTURAL			
	A COMMUNICATIONS OUTLET FACEPLATE, (COORDINATE COLOR WITH CONTRACTING OFFICER).	COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 TODD NICHOLSON P.E.	DESCRIPTION		
	B SNAP-IN MODULE WITH ONE "F"-TYPE VIDEO CONNECTOR ASSEMBLY - (COORDINATE COLOR WITH CONTRACTOR OFFICER).	FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138	DES(
	C SNAP-IN COUPLER WITH 8-PIN MODULAR JACK ASSEMBLY. PROVIDE ONE PER OUTLET. COUPLER COLOR TO BE BLACK IN COLOR.				
	D TV OUTLET INDENTIFIER ON LASER PRINTED INSERT UNDER FACTORY PLASTIC COVER. PRINT LABELS USING FACTORY SOFTWARE. TEXT SHALL BE 12 POINT ARIAL.		DATE		
	E TV OUTLET DESIGNATION ON LASER PRINTED INSERT UNDER FACTORY PLASTIC COVER. PRINT LABELS USING FACTORY SOFTWARE. TEXT SHALL BE 12 POINT ARIAL.		REV #		
J	TYPE "TV" GENERAL NOTES:				
	1) LOCATE ADJACENT TO POWER RECEPTACLE				
	2) CABLING SHALL BE HOMERUN TO HORIZONTAL PATCH PANELS.		APPROVED	CHIEF ENGINEER APPROVED	
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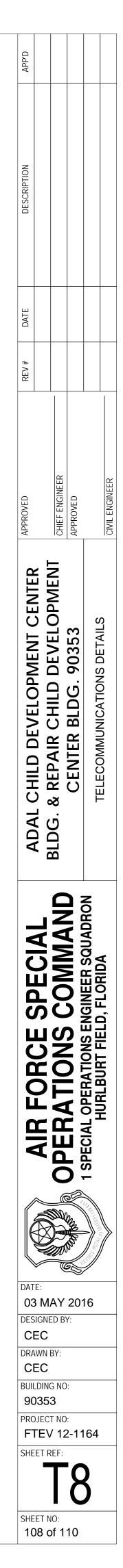


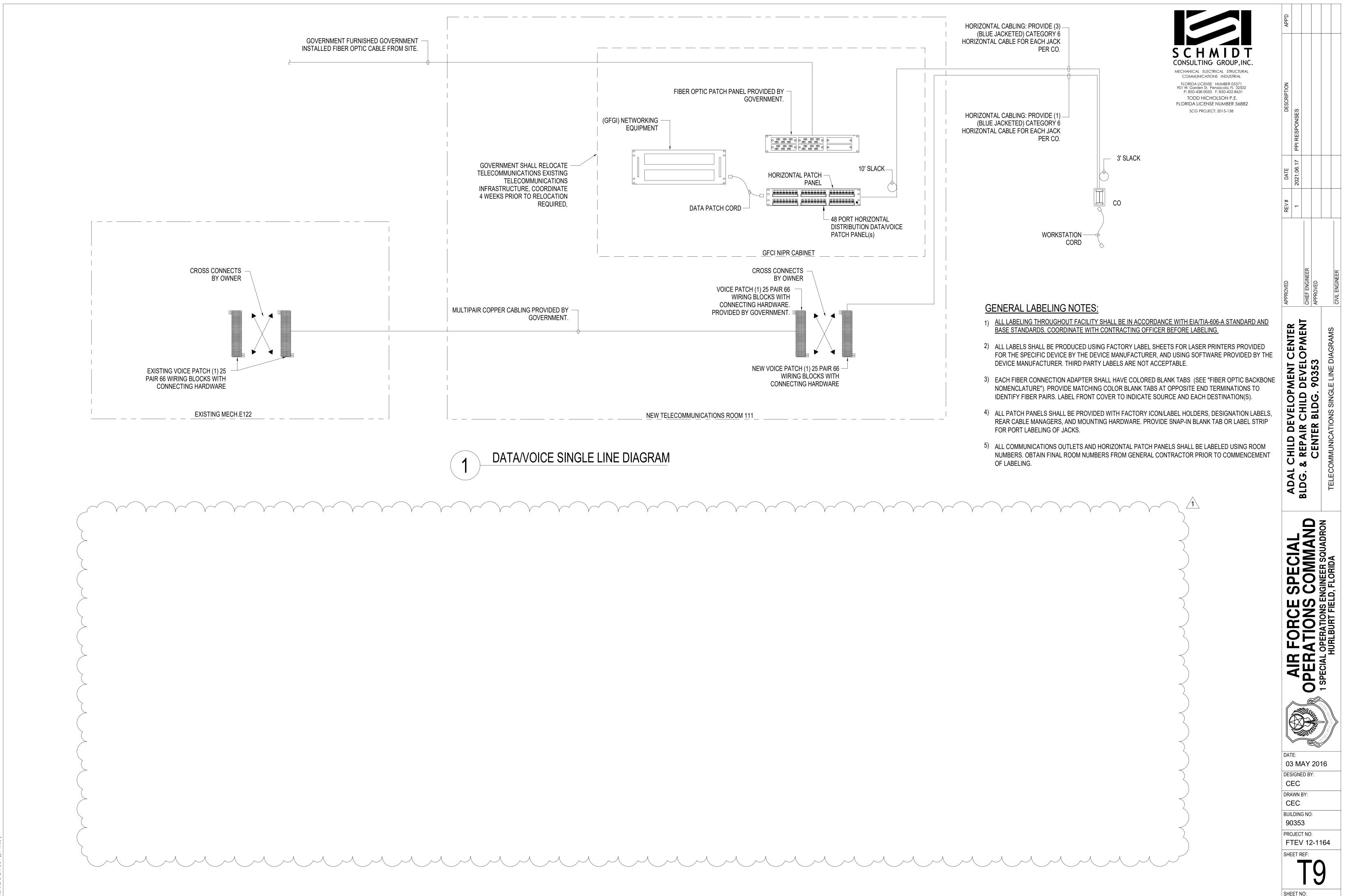


MECHANICAL ELECTRICAL STRUCTURAL COMMUNICATIONS INDUSTRIAL FLORIDA LICENSE NUMBER 05371 901 W. Garden St. Pensacola, FL 32502 P: 850-438-0050 F: 850-432-8631 TODD NICHOLSON P.E. FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138

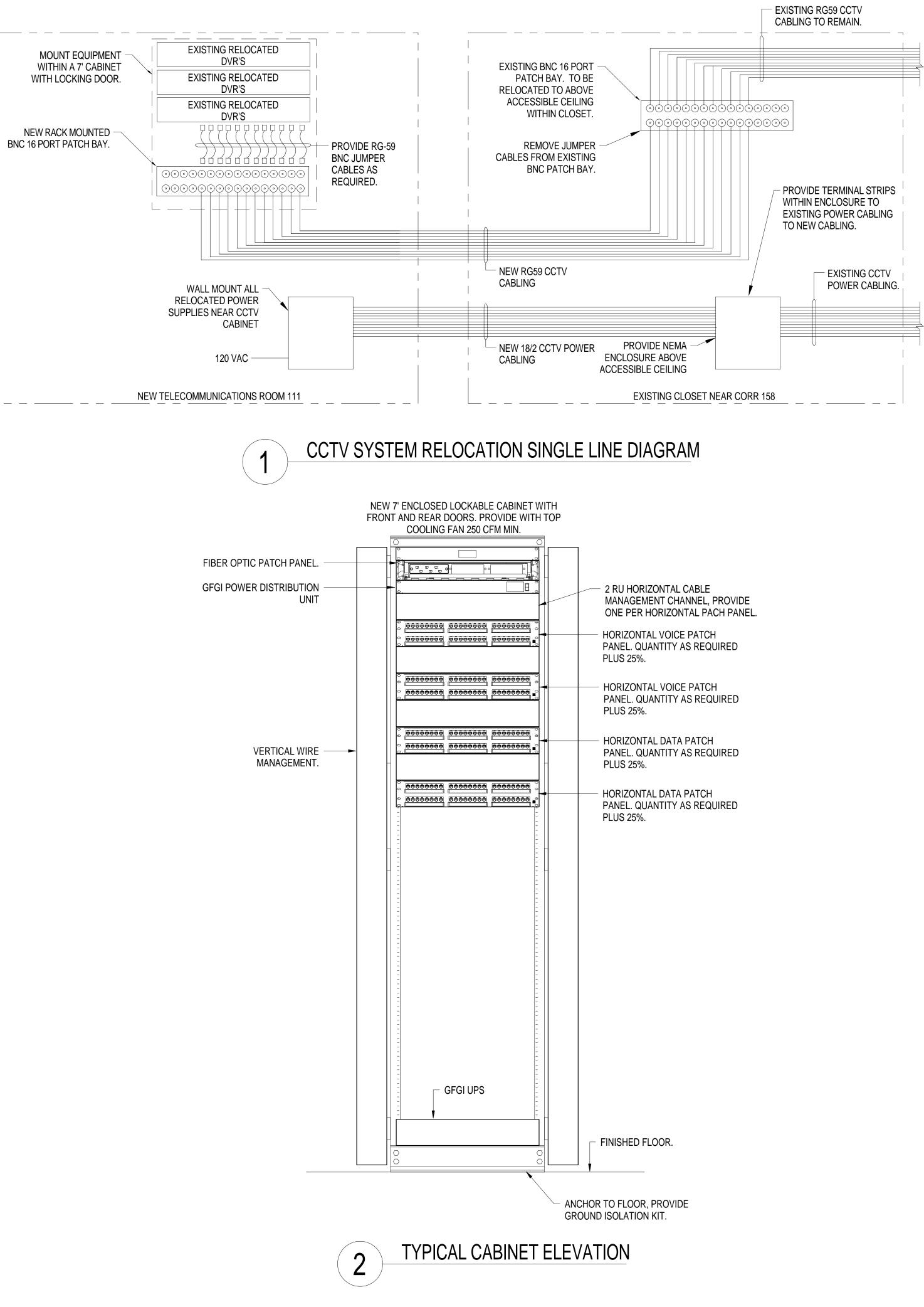
ALL TBB CABLES SHALL BE IN EMT (MINIMUM SIZE IS 3/4"). PROVIDE GROUNDING BUSHINGS ON EACH END AS REQUIRED.

TELCOM GROUNDING SYSTEM RISER





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FLORIDA LICENSE NUMBER 56882 SCG PROJECT: 2015-138

APP'D					
DESCRIPTION					
DATE					
REV #					
APPROVED		CHIEF ENGINEER	APPROVED		CIVIL ENGINEER
		BLUG. & KEPAIK CHILU DEVELOPINIENI	CENTER BLDG. 90353	TELECOMMINICATIONS SINCLETINE DIACHAMS	
		ODFRATIONS COMMAND			
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