

1

2

3

4

5

- GENERAL NOTES**
1. REFER TO GENERAL SHEET G-002 FOR INDEX OF DRAWINGS.
 2. REFER TO ARCHITECTURAL SHEET A-001 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.
 3. REFER TO ARCHITECTURAL SHEET A-101 FOR FLOOR PLAN.
 4. REFER TO ARCHITECTURAL SHEET A-103 FOR ROOF PLAN.
 5. REFER TO ARCHITECTURAL SHEET A-201 FOR EXTERIOR ELEVATIONS.
 6. REFER TO OTHER DISCIPLINES FOR ADDITIONAL INFORMATION.

SYMBOL	DESCRIPTION	DATE	APPROVED
0	ISSUED FOR BID	8 JUN 15	



APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES: MN DRW: MN CHK: JMW

PM / DM

BRANCH MANAGER

CHIEF ENG / ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
NAVAL AIR STATION JACKSONVILLE
CIBL CORE

NAS CORPUS CHRISTI
CORPUS CHRISTI, TEXAS
AIRFIELD LIGHTING VAULT
WALL SECTIONS

SCALE: AS NOTED

PROJECT NO.

CONSTR. CONTR. NO.

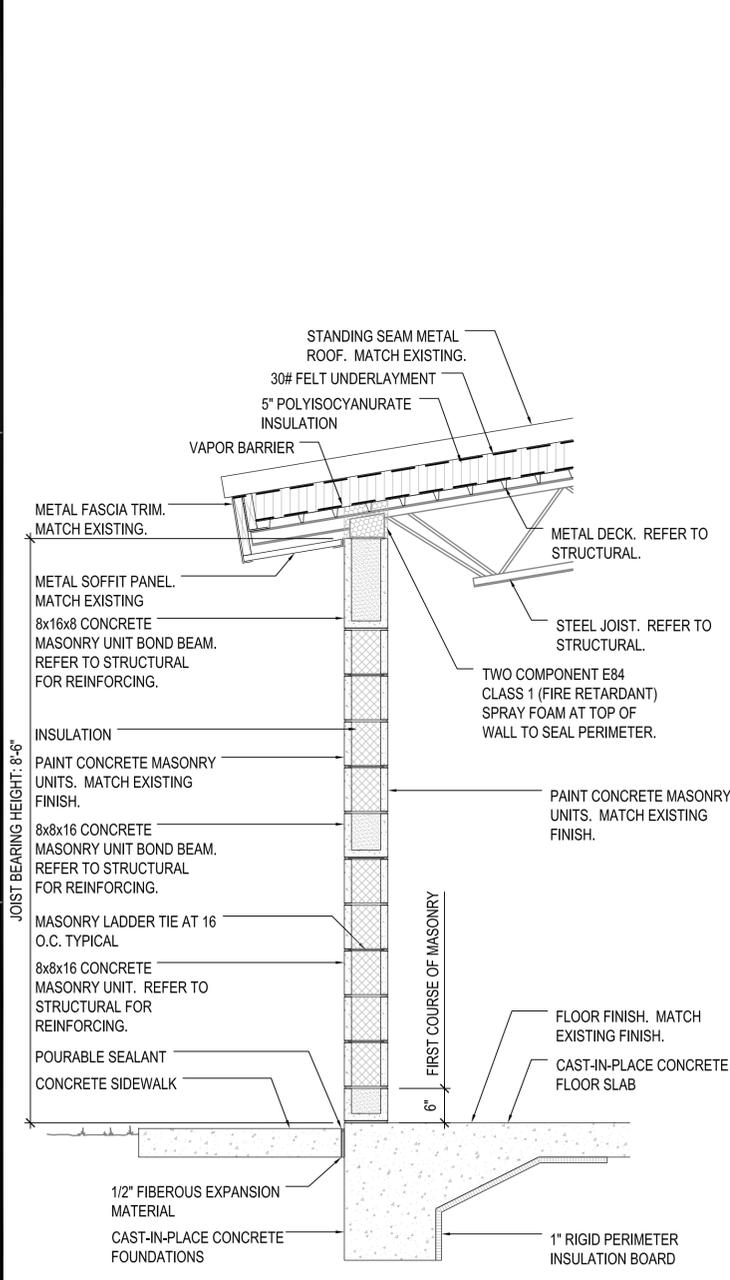
NAVFAC DRAWING NO. 15095091

SHEET 21 OF 54

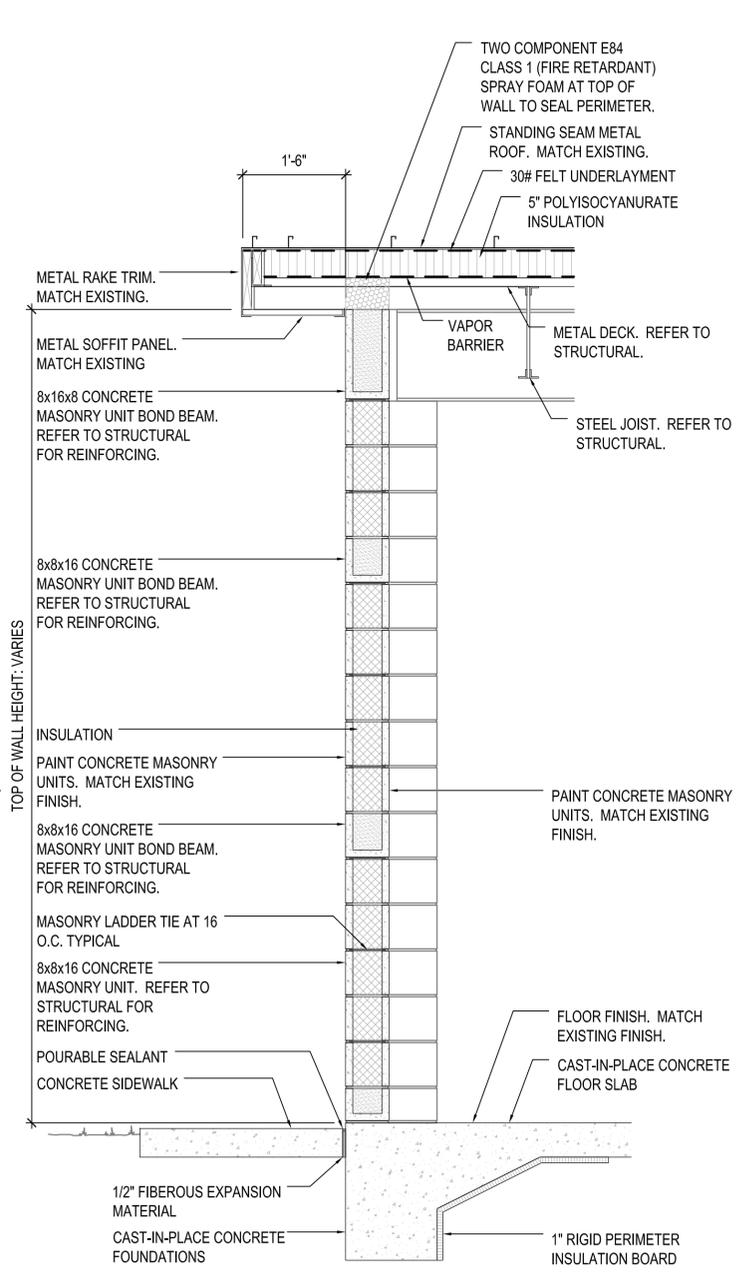
A-311

DRAWFORM REVISION: 5 APRIL 2012

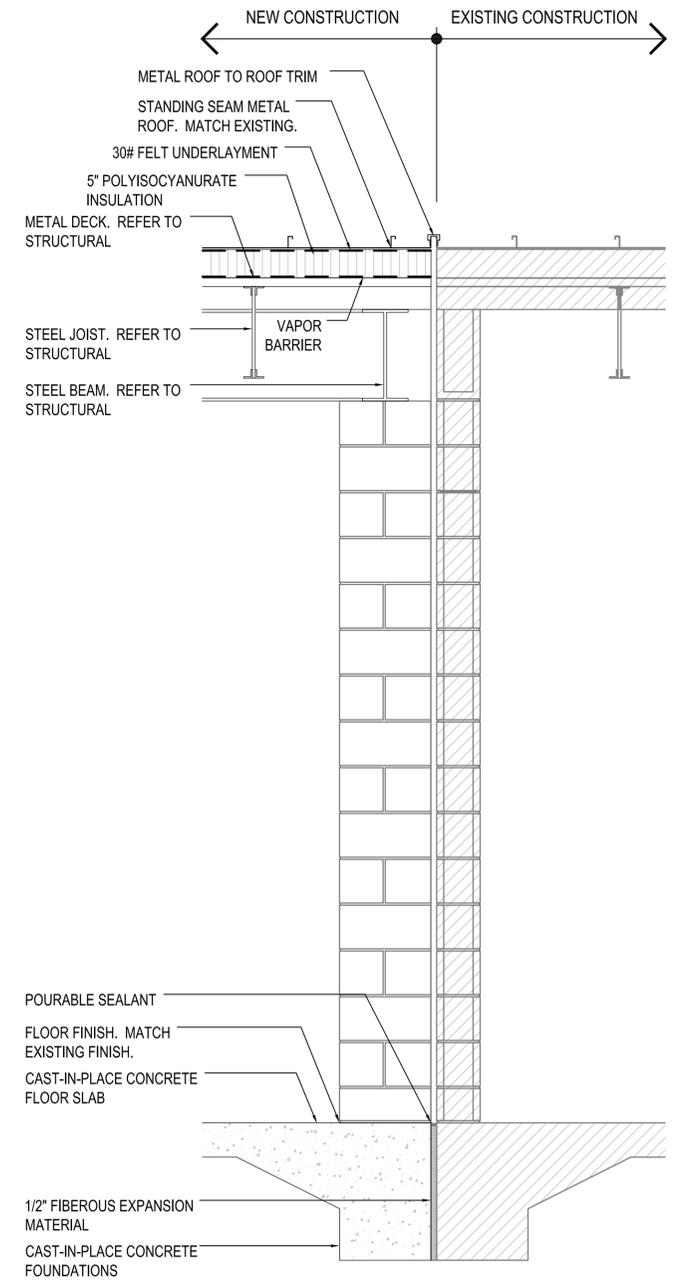
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1 WALL SECTION
3/4"=1'-0"



2 WALL SECTION
3/4"=1'-0"



3 WALL SECTION
3/4"=1'-0"

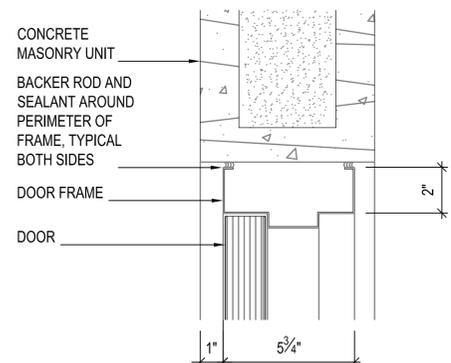
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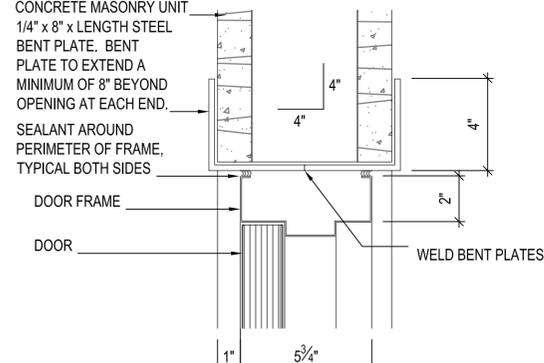
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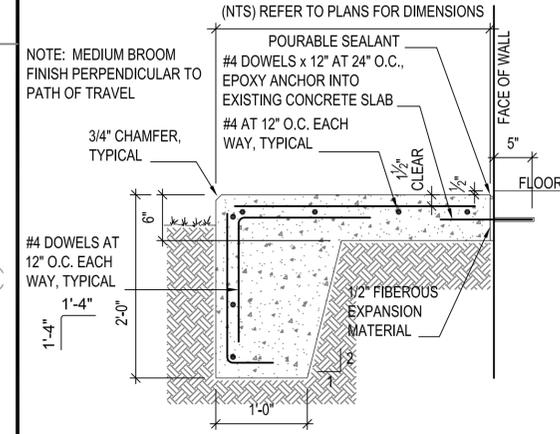
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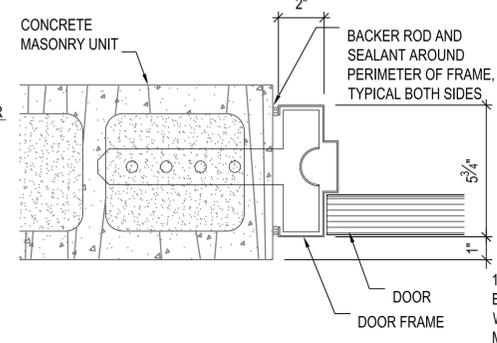
2 DOOR DETAIL
3"=1'-0"



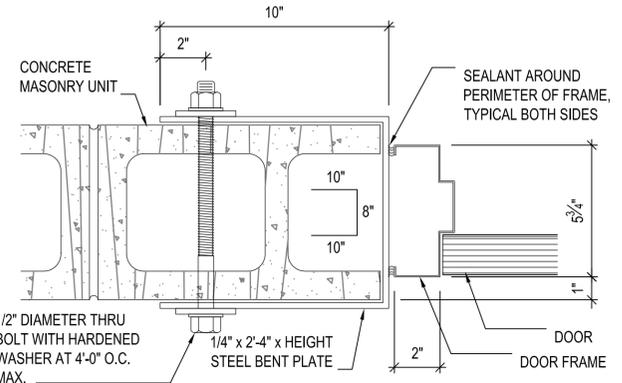
3 DOOR DETAIL
3"=1'-0"



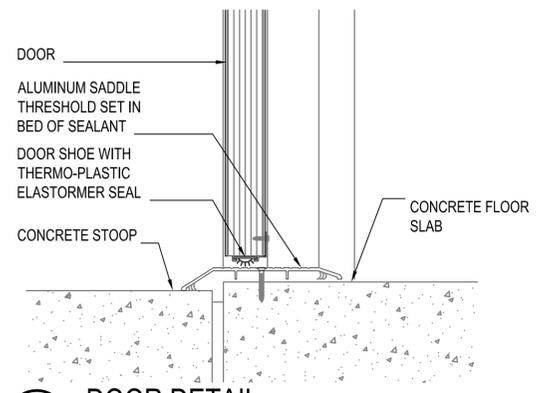
6 CONCRETE STOOP DETAIL
1"=1'-0"



7 DOOR DETAIL
3"=1'-0"



8 DOOR DETAIL
3"=1'-0"



17 DOOR DETAIL
3"=1'-0"

1

2

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4

5

FILE NAME: P:\FDBV\641-OKC\AE\205114800_nas_corpus_christi_airfield_repair\20_DESSN\40_CAD\114800A-501.dwg LAYOUT NAME: A-501 MISCELLANEOUS DETAILS PLOTTED: Tuesday, June 09, 2010 11:20am USER: nobertm

SYMBOL	DESCRIPTION	DATE	APPROVED
0	ISSUED FOR BID	8 JUN 10	



leidos
LEIDOS ENGINEERING, LLC
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APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES: MN | DRW: MN | CHK: JMW
PM / DM
BRANCH MANAGER
CHIEF ENG / ARCH
FIRE PROTECTION

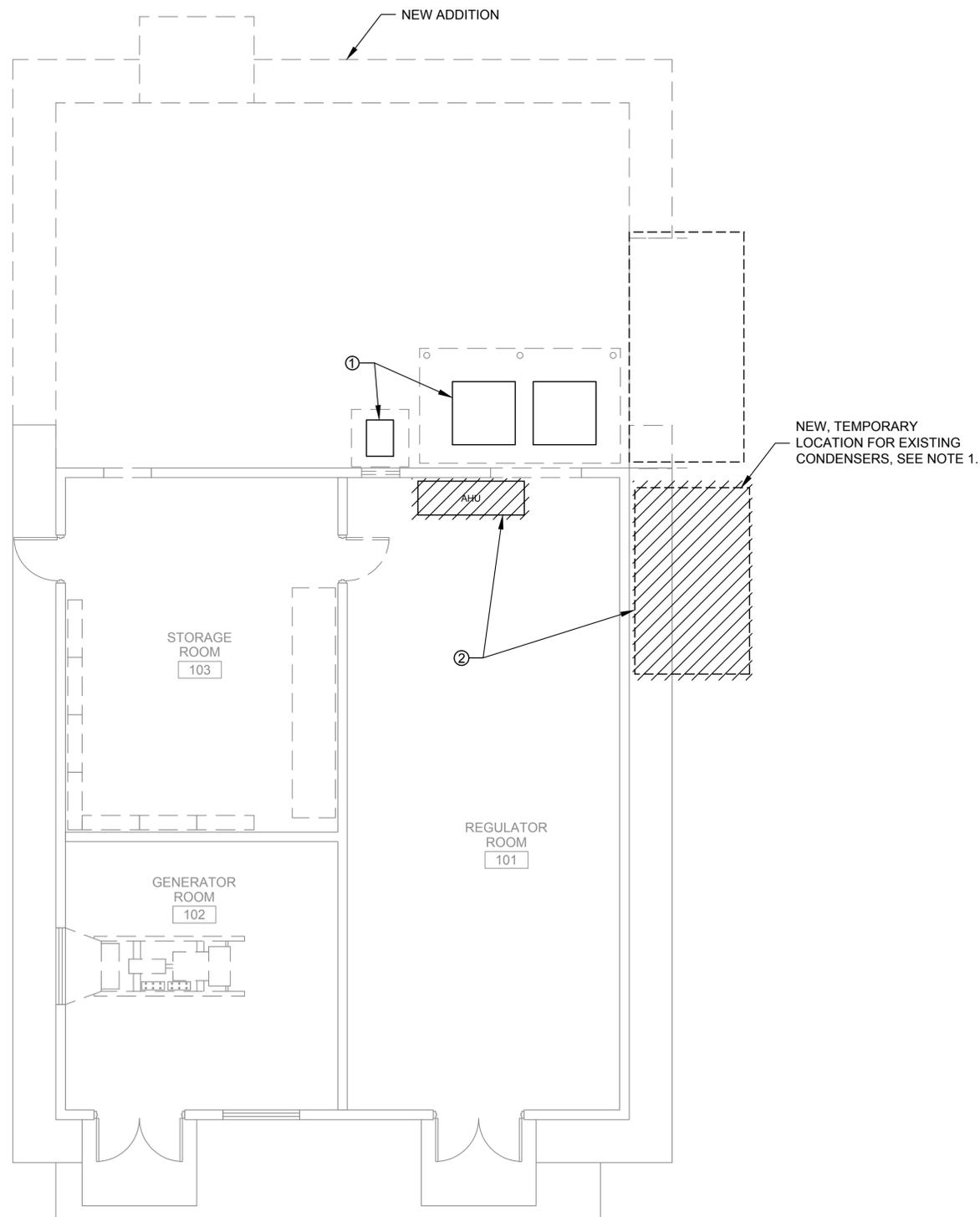
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
NAVAL AIR STATION JACKSONVILLE
CIBL CORE
NAS CORPUS CHRISTI
NAS CORPUS CHRISTI AIRFIELD REPAIRS
AIRFIELD LIGHTING VAULT
MISCELLANEOUS DETAILS

SCALE: AS NOTED
PROJECT NO.:
CONSTR. CONTR. NO.:
NAVFAC DRAWING NO.: 15095092
SHEET 22 OF 54
A-501
DRAWING REVISION: 5 APRIL 2012

FILE NAME: P:\FBY1641-CRUC\NAS_Corpus_Christi_Airfield_Repairs\20_DESIGN\03_DRAWING\15095093-HVAC-101.dwg LAYOUT NAME: HVAC POWER VAULT PLANS PLOTTED: Tuesday, June 09, 2015 - 1:01pm USER: hendersondr

KEYNOTES FOR DEMOLITION WORK

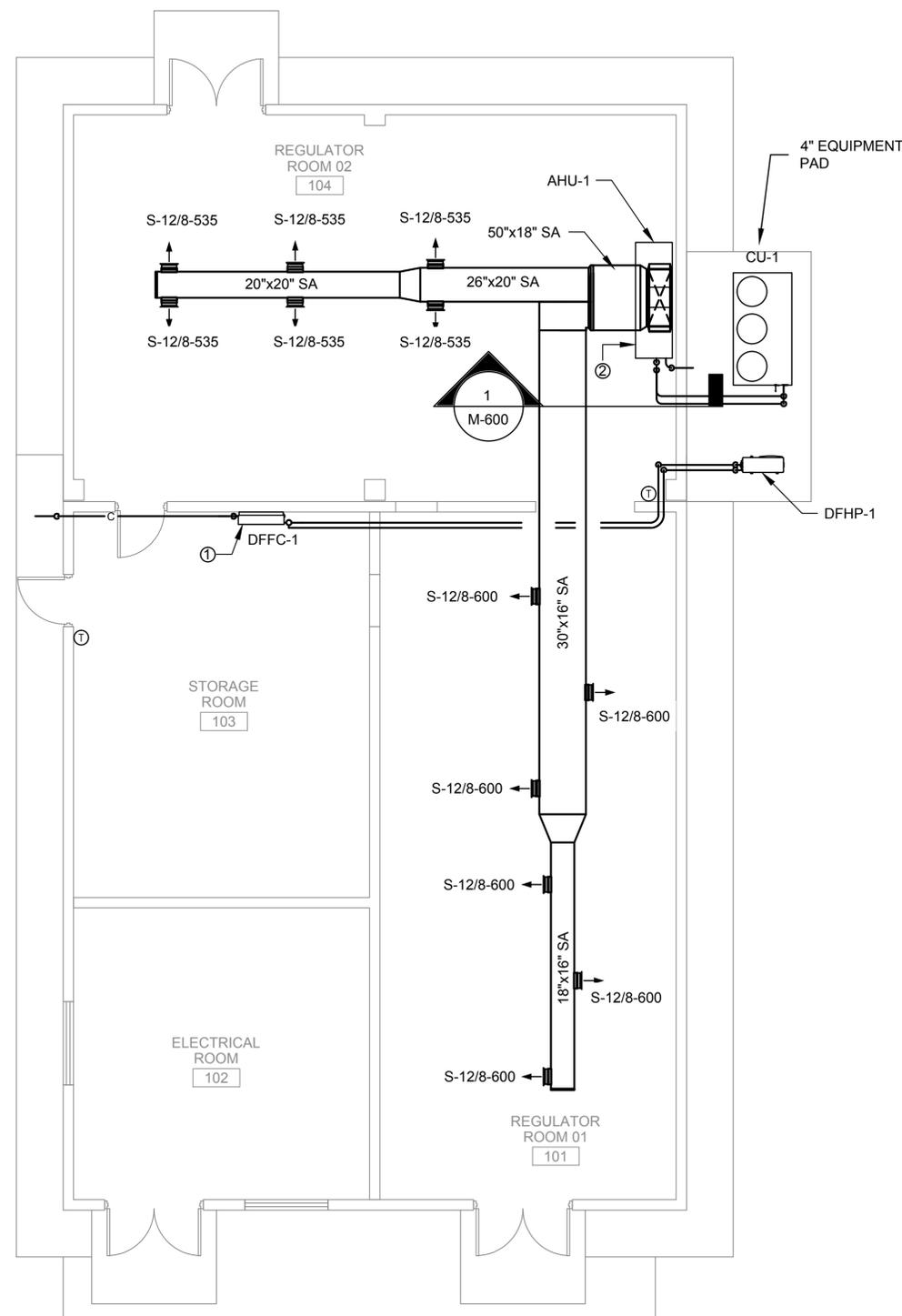
- ① TEMPORARILY RELOCATE EXISTING CONDENSERS TO ALLOW CONSTRUCTION OF ADDITION. EXTEND POWER AND REFRIGERANT PIPING AS REQUIRED.
- ② DEMO EXISTING INDOOR AND OUTDOOR MECHANICAL EQUIPMENT ALONG WITH ASSOCIATED REFRIGERANT, DUCTWORK, AND CONDENSATE PIPING AFTER NEW EQUIPMENT IS OPERATIONAL.



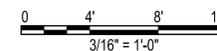
1 DEMOLITION HVAC PLAN
3/16"=1'-0"

KEYNOTES FOR NEW WORK

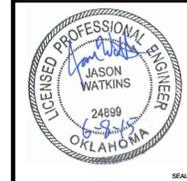
- ① MOUNT UNIT HIGH ON WALL. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS AND ROUTE TO CONDENSING UNIT OUTSIDE. ROUTE CONDENSATE PIPING WITH P-TRAP AND STUB DRAIN THROUGH WALL TO DAYLIGHT WITH SPLASH BLOCK.
- ② MOUNT UNIT ON MANUFACTURER SUPPLIED SUB-BASE. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS AND ROUTE TO CONDENSING UNIT OUTSIDE. ROUTE CONDENSATE PIPING WITH P-TRAP AND STUB DRAIN THROUGH WALL TO DAYLIGHT WITH SPLASH BLOCK.



2 NEW HVAC PLAN
3/16"=1'-0"



REV	DESCRIPTION	DATE
0	ISSUED FOR BID	8 JUN 15



APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES LLR DRW ADH CHK JMW
PM / DM
BRANCH MANAGER
CHIEF ENG / ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 SOUTH EAST
 NAVAL AIR STATION JACKSONVILLE
 CIBL CORE
 NAS CORPUS CHRISTI, TEXAS
NAS CORPUS CHRISTI AIRFIELD REPAIRS
AIRFIELD LIGHTING VAULT
 HVAC POWER VAULT PLANS

SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	15095093
SHEET	23 OF 54
M-101	
DRAWFORM REVISION: 5 APRIL 2012	

HEAT PUMP INDOOR SECTION SCHEDULE

MARK	LOCATION	FAN SECTION					COOLING MODE					HEATING MODE			UNIT ELECTRICAL DATA			UNIT DATA		NOTES	
		ELECTRICAL DATA		TOTAL AIR FLOW (CFM)	O.A. FLOW (CFM)	EXT. STATIC (IN. WC)	EAT		LAT		SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EAT (°F)	LAT (°F)	TOTAL CAPACITY (MBH)	MCA	MOP	V/ø/HZ	WEIGHT (LBS)		BASIS OF DESIGN MANUFACTURER/MODEL
		HP	V/ø/HZ				DB (°F)	WB (°F)	DB (°F)	WB (°F)											
AHU-1	REGULATOR ROOMS	5	460/3/60	6800	110	1	75	67	55	54	154	173	67	80	35	6	15	460/3/60	800	CARRIER/40RUQ16	ALL

NOTES:
 1. PROVIDE WITH FACTORY SUB-BASE PLATFORM.
 2. PROVIDE CORROSION PROTECTION FOR COASTAL CONDITIONS PER MANUFACTURER.
 3. PROVIDE UNIT MOUNTED DISCONNECT AND MOTOR STARTER.
 4. PROVIDE WITH PROGRAMMABLE THERMOSTAT.
 5. PROVIDE WITH FACTORY SUPPLIED RETURN AIR GRILLE.

BASIS OF DESIGN MANUFACTURER AND MODEL NUMBERS ARE SHOWN TO PROVIDE LEVEL OF QUALITY. OTHER MANUFACTURERS THAT MEET OR EXCEED THE SPECIFICATIONS AND SALIENT CHARACTERISTICS OF THE BASIS OF DESIGN ARE ACCEPTABLE.

MINI SPLIT SYSTEM AC SCHEDULE

MARK	AREA SERVED	NOMINAL SIZE	BASIS OF DESIGN		RATED CAPACITY		AIR FLOW	SEER	ELECTRICAL					OPERATING WEIGHT	NOTES		
			MANUFACTURER	MODEL	COOLING	HEATING			MCA	MOC	VOLT	PHASE	FREQ				
																MANUFACTURER	MODEL
DFFC-1	STORAGE ROOM	1.5 TON	DAIKIN	PKA-A18HA4	18,000 BTUH	19,000 BTUH	350 CFM	15.3	1	A	208	1	60 Hz	35	1,2		
DFHP-1	STORAGE ROOM	1.5 TON	DAIKIN	PUZ-A18NHA4-BS	18,000 BTUH	19,000 BTUH		15.3	13	A	20	A	208	1	60 Hz	80	3,4,5,6

NOTES:
 1. PROVIDE UNIT WITH INTEGRAL DISCONNECT, MOTOR STARTER, AND CONDENSATE PUMP.
 2. REFRIGERANT TYPE R-410A.
 3. ENSURE ALL CONDENSING UNITS ARE LOCATED WITH ADEQUATE CLEARANCE PER MANUFACTURER'S GUIDELINES AND INSTALLED ON EXISTING HOUSE-KEEPING PADS.
 4. UNIT CAPACITY TO BE SELECTED AT A MINIMUM OF 105°F AMBIENT CONDITIONS.
 5. PROVIDE LOW AMBIENT KIT, FAN CYCLING DEVICE, CRANK CASE HEATER AND HAIL GUARDS.
 6. CORROSION PROTECTION FOR COASTAL CONDITIONS. CONDENSING UNIT CASINGS SHALL BE COATED WITH A CORROSION RESISTANT EPOXY COATING. RECOMMENDED PROTECTION IS TO USE ONLY COPPER COILS WITH PHENOLIC COATING APPLICATION, COORDINATE WITH MANUFACTURER FOR APPROVED COATING ON COILS.

HEAT PUMP OUTDOOR SECTION SCHEDULE

MARK	LOCATION	SUMMER		WINTER		EFFICIENCY			ELECTRICAL DATA					UNIT WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER/MODEL	NOTES	
		TEMP. (°F)	CAPACITY (MBH)	TEMP. (°F)	CAPACITY (MBH)	SEER	EER	HSPF	COMP LRA	COMP RLA	FAN FLA	MCA	MOP				V/ø/HZ
		TEMP. (°F)	CAPACITY (MBH)	TEMP. (°F)	CAPACITY (MBH)	SEER	EER	HSPF	COMP LRA	COMP RLA	FAN FLA	MCA	MOP				V/ø/HZ
CU-1	OUTSIDE	95	173	33	30	15	10.6	8.9	100	12.2	3 @ 0.8 EACH	32.1	40	460/3/60	800	CARRIER/38AUQ16	ALL

NOTES:
 1. PROVIDE CORROSION PROTECTION FOR COASTAL CONDITIONS PER MANUFACTURER.
 2. PROVIDE WITH TWO-STAGE COMPRESSOR.
 3. PROVIDE UNIT MOUNTED DISCONNECT AND MOTOR STARTER.

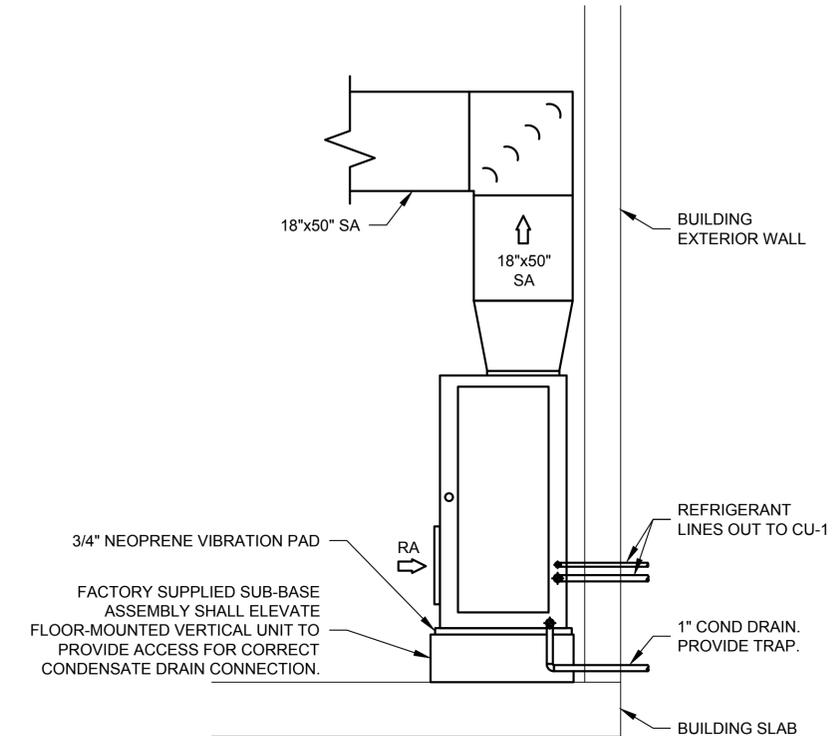
AIR DISTRIBUTION DEVICE SCHEDULE

MARK	TYPE	MOUNTING	FACE SIZE (IN. x IN.)	NECK SIZE (IN. x IN.)	FLOW RATE (CFM)	NOISE CRITERIA	MATERIAL	FINISH	BASIS OF DESIGN MANUFACTURER/MODEL	NOTES
S	SUPPLY DIFFUSER	DUCT	12x8	SEE PLANS	SEE PLANS	<25	ALUMINUM	WHITE	TITUS/300FS	1,2

NOTES:
 1. RUNOUTS TO AIR DEVICES SHALL MATCH NECK SIZE UNLESS OTHERWISE NOTED.
 2. BALANCING DAMPERS SHALL BE INSTALLED AT BRANCH TAKEOFF.

DESIGN CONDITION SCHEDULE

OUTSIDE CONDITIONS		
SUMMER	WINTER	
DRY BULB (°F)	WET BULB (°F)	DRY BULB (°F)
95	78	33
INSIDE CONDITIONS		
SUMMER	WINTER	
DRY BULB (°F)	RH %	DRY BULB (°F)
75	50	67



GENERAL NEW WORK NOTES

- PROVIDE NEW EQUIPMENT DUCTWORK, DIFFUSERS, GRILLES, AND PIPING AS SHOWN.
- PROVIDE BALANCING DAMPERS AT EACH RUNOUT TO AIR DEVICE.
- INSTALLATION OF ALL NEW DUCTWORK AND PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO LIGHTS AND CABLE TRAYS.
- MAINTAIN ALL MANUFACTURERS RECOMMENDED CLEARANCES FOR ACCESS FOR ALL EQUIPMENT.
- AHU-1 TO BE OPERATED BY A PROGRAMMABLE THERMOSTAT AND LOCATED AS SHOWN.
- PROVIDE ACOUSTICAL SEALANT AT ALL LOCATIONS THRU WALLS WHERE DUCTWORK, PIPING, ETC. ARE INSTALLED.

MECHANICAL LEGEND

- PROGRAMMABLE THERMOSTAT
- SUPPLY DIFFUSER
- RETURN GRILLE
- SOUNDLINED RETURN DUCTWORK
- EQUIPMENT ACCESS AREA
- INDICATES DIRECTION OF AIRFLOW
- OA OUTSIDE AIR
- RA RETURN AIR
- SA SUPPLY AIR
- CD CONDENSATE DRAIN

NOTE: AIR DISTRIBUTION DEVICES ARE DENOTED AS ILLUSTRATED BELOW:
 S - 12/4 - 200
 CFM CONNECTION SIZE OF DEVICE (SINGLE # INDICATES ROUND)
 DEVICE TYPE REFER TO SCHEDULE

8 JUN 15 DATE

0 ISSUED FOR BID

NAFAC

LICENSED PROFESSIONAL ENGINEER
 JASON WATKINS
 24899
 OKLAHOMA

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APPROVED

FOR COMMANDER NAFAC

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SATISFACTORY TO DATE

DES LLR | DRW ADH | CHK JMW

PM / DM

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CHIEF ENG / ARCH

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DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
 NAVAL AIR STATION JACKSONVILLE
 CIBL CORE
 NAS CORPUS CHRISTI
 NAS CORPUS CHRISTI AIRFIELD REPAIRS
 AIRFIELD LIGHTING VAULT
 HVAC NOTES SCHEDULES AND DETAILS

SCALE: AS NOTED

EPROJCT NO.:

CONSTR. CONTR. NO.:

NAVFAC DRAWING NO. 15095094

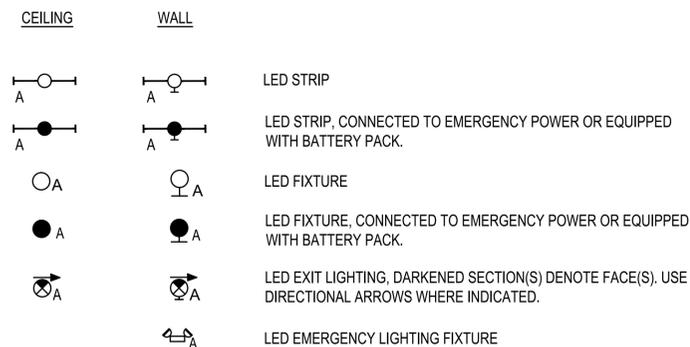
SHEET 24 OF 54

M-600

DRAWFORM REVISION: 5 APRIL 2012

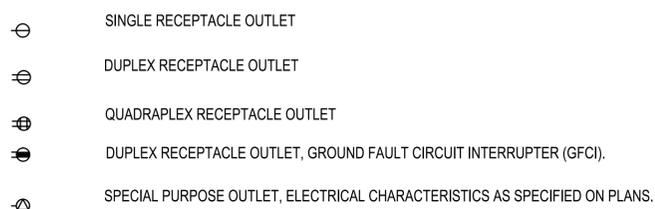
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LIGHTING FIXTURE SYMBOLS



NOTES: UPPERCASE LETTER DENOTES FIXTURE TYPE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE, SHEET EL501. LOWERCASE LETTERS DENOTES LIGHTING ZONE.

RECEPTACLES SYMBOLS

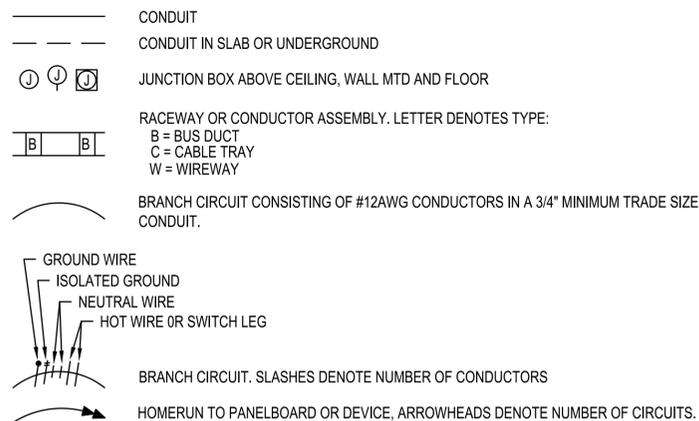


NOTES: SUBSCRIPTS SHALL BE ADDED TO SYMBOL WHERE APPLICABLE:
 WP = WEATHER-RESISTANT RECEPTACLE WITH WEATHERPROOF ENCLOSURE
 X = EXPLOSION PROOF
 C = DEVICE MTD. +2" ABOVE BACKSPASH OR COUNTER TOP.
 IG = ISOLATED GROUND

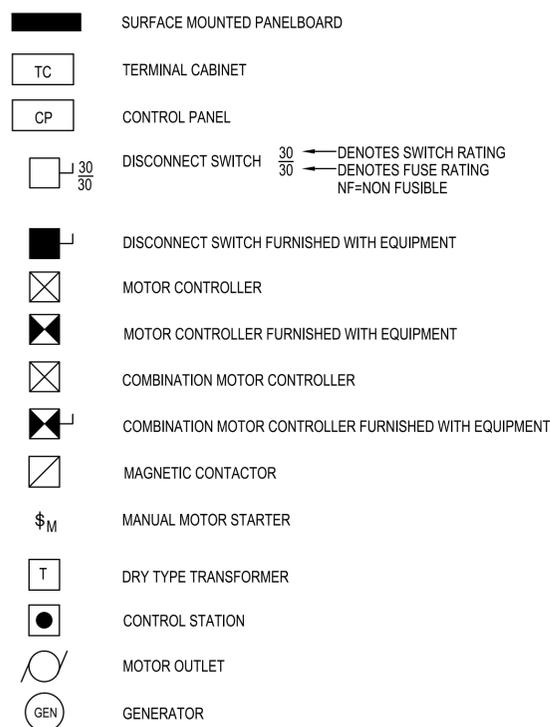
SWITCHES AND SENSORS SYMBOLS



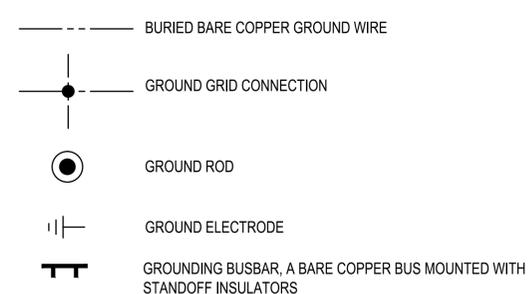
CONDUIT, RACEWAY & WIRING SYMBOLS



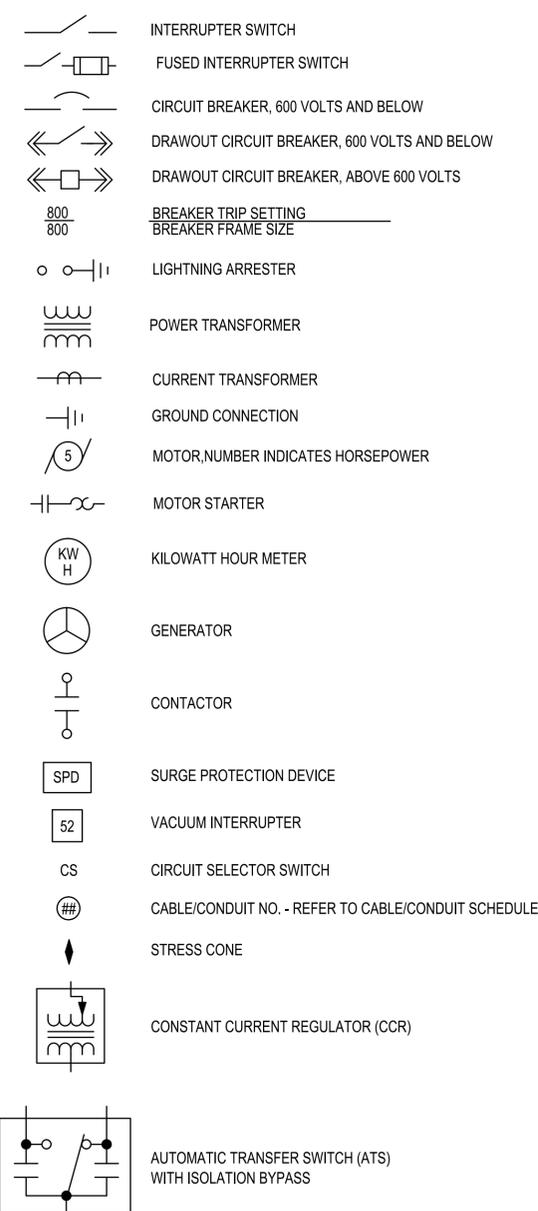
POWER AND CONTROL PLAN SYMBOLS



GROUNDING & LIGHTNING PROTECTION



ONE LINE DIAGRAM SYMBOLS



ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	AMPERE	D	DIMMER/DEEP/DEPTH	JB	JUNCTION BOX/JOIST BEARING	MTS	MANUAL TRANSFER SWITCH	SPD	SURGE PROTECTIVE DEVICE
ACB	AIR CIRCUIT BREAKER	DIST	DISTRIBUTION	KA	KILOAMPERE	NF	NON-FUSED, NON-FUSIBLE	SW	SWITCH
AF	AMPERE FRAME	DS	DISCONNECT SWITCH/DOWN SPOUT	KCMIL	THOUSAND CIRCULAR MILLS	NC	NORMALLY CLOSED	SWBD	SWITCHBOARD
AFF	ABOVE FINISHED FLOOR	DWG	DRAWING	KS	KEY SWITCH	NO	NORMALLY OPEN	SWGR	SWITCHGEAR
AHU	AIR HANDLING UNIT	ELEC	ELECTRIC, ELECTRICAL	KV	KILOVOLT	NEU	NEUTRAL	TB	TERMINAL BOARD
AIC	AMPERES INTERRUPTING CAPACITY	EMER	EMERGENCY	KVA	KILOVOLT-AMPERE	OC	OVERCURRENT	TC	TERMINAL CABINET/TIME CLOCK/TRIP COIL
AT	AMPERE TRIP	EMT	ELECTRICAL METALLIC TUBING	KW	KILOWATT	OH	OVERHEAD/OPOSITE HAND	TD	TIME DELAY
A.T.S.	AUTOMATIC TRANSFER SWITCH	EO	ELECTRICALLY OPERATED	LA	LIGHTNING ARRESTER	OPER	OPERATOR	TGB	TELECOMMUNICATIONS GROUND BUSBAR
AWG	AMERICAN WIRE GAUGE	EPO	EMERGENCY POWER OFF	LED	LIGHT EMITTING DIODE	P	POLE	TYP	TYPICAL
B	BELL	FA	FIRE ALARM	LTG	LIGHTING	PB	PUSHBUTTON/PULL BOX	UNO	UNLESS NOTED OTHERWISE
BKR	BREAKER	FU	FUSE	M	METER	PC	PHOTOELECTRIC CELL	UNSHLD	UNSHIELDED
C	CONDUIT	FS	FLOW SWITCH	MAINT	MAINTENANCE	PF	POWER FACTOR/PROFILE	UPS	UNINTERRUPTIBLE POWER SUPPLY
CAB	CABINET	GBT	GENERATOR BUS-TIE	MAX	MAXIMUM	PLC	PROGRAMMABLE LOGIC CONTROLLER	V	VOLT
CB	CIRCUIT BREAKER	GEN	GENERATOR/GENERAL	MCA	MINIMUM CIRCUIT AMPACITY	PNL	PANEL	VCB	VACUUM CIRCUIT BREAKER
CCT	CIRCUIT	GSSM	GENERATOR SET START MODULE	MCB	MAIN CIRCUIT BREAKER	PT	POTENTIAL TRANSFORMER	VFD	VARIABLE FREQUENCY DRIVE
CNTL	CONTROL	GF	GROUND FAULT	MCP	MOTOR CIRCUIT PROTECTOR	PNLBRD	PANELBOARD	W	WIRE/WATT/WIDTH/WEST
COL	COLUMN	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MH	MANHOLE, METAL HALIDE	PVC	POLYVINYL CHLORIDE	WLD	WELDING
COMM	COMMUNICATIONS	GND	GROUND	MLO	MAIN LUGS ONLY	REF	REFER TO/ REFERENCE/ REFERIGERATOR	WP	WEATHERPROOF/WORKING POINT
CONT'D	CONTINUED	HID	HIGH INTENSITY DISCHARGE	MIN	MINIMUM	PWR	POWER	XFMR	TRANSFORMER
CP	CONTROL PANEL	H-O-A	HAND-OFF-AUTOMATIC SWITCH	MOCPPD	MAXIMUM OVERCURRENT PROTECTIVE DEVICE	REM	REMOTE	XP	EXPLOSION PROOF
CR	CONTROL RELAY	HP	HORSEPOWER	MMS	MANUAL MOTOR STARTER	RGS/RMC	RIGID GALVANIZED STEEL CONDUIT		
CFL	COMPACT FLUORESCENT LAMP	HPS	HIGH PRESSURE SODIUM	MS	MOTOR STARTER	RM	ROOM		
CT	CURRENT TRANSFORMER/CERAMIC TILE/COOLING TOWER	IMC	INTERMEDIATE METAL CONDUIT	MTD	MOUNTED	SA	SURGE ARRESTER		
CU	COPPER	INST	INSTANTANEOUS	MTR	MOTOR	SHLD	SHIELDED		

DATE: 8 JUN 15

ISSUED FOR BID

NAVAC

STATE OF TEXAS
 JOSE G. SPOSITO
 LICENSE NO. 110732
 PROFESSIONAL ENGINEER

leidos
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 8711 Faber Court, Suite 100
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 phone: (804) 275-8301 • fax: (804) 275-8371
 www.deltairport.com

Delta Project No. 14072.AE.MF

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES DS | DRW NJS | CHK DWM

PM / DM

BRANCH MANAGER

CHIEF ENG / ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 SOUTHEAST
 NAVAL AIR STATION JACKSONVILLE
 CIBL CORE
 NAS CORPUS CHRISTI
 CORPUS CHRISTI, TEXAS
 NAS CORPUS CHRISTI AIRFIELD REPAIRS
 AIRFIELD LIGHTING VAULT

LEGEND AND ABBREVIATIONS

SCALE: NTS

PROJECT NO.: 15095095

CONSTR. CONTR. NO.

NAVAC DRAWING NO. 15095095

SHEET 25 OF 54

E-001

DRAWFORM REVISION: 5 APRIL 2012

FILE NAME: P:\FBI\1641-DK\NAS_Corpus_Christi_Airfield_Repairs\20_DESIGN\40_GAD\134800-E-001.dwg LAYOUT NAME: E-001 PLOTTED: Tuesday, June 09, 2015 - 11:08am USER: lsberr

GENERAL NOTES:

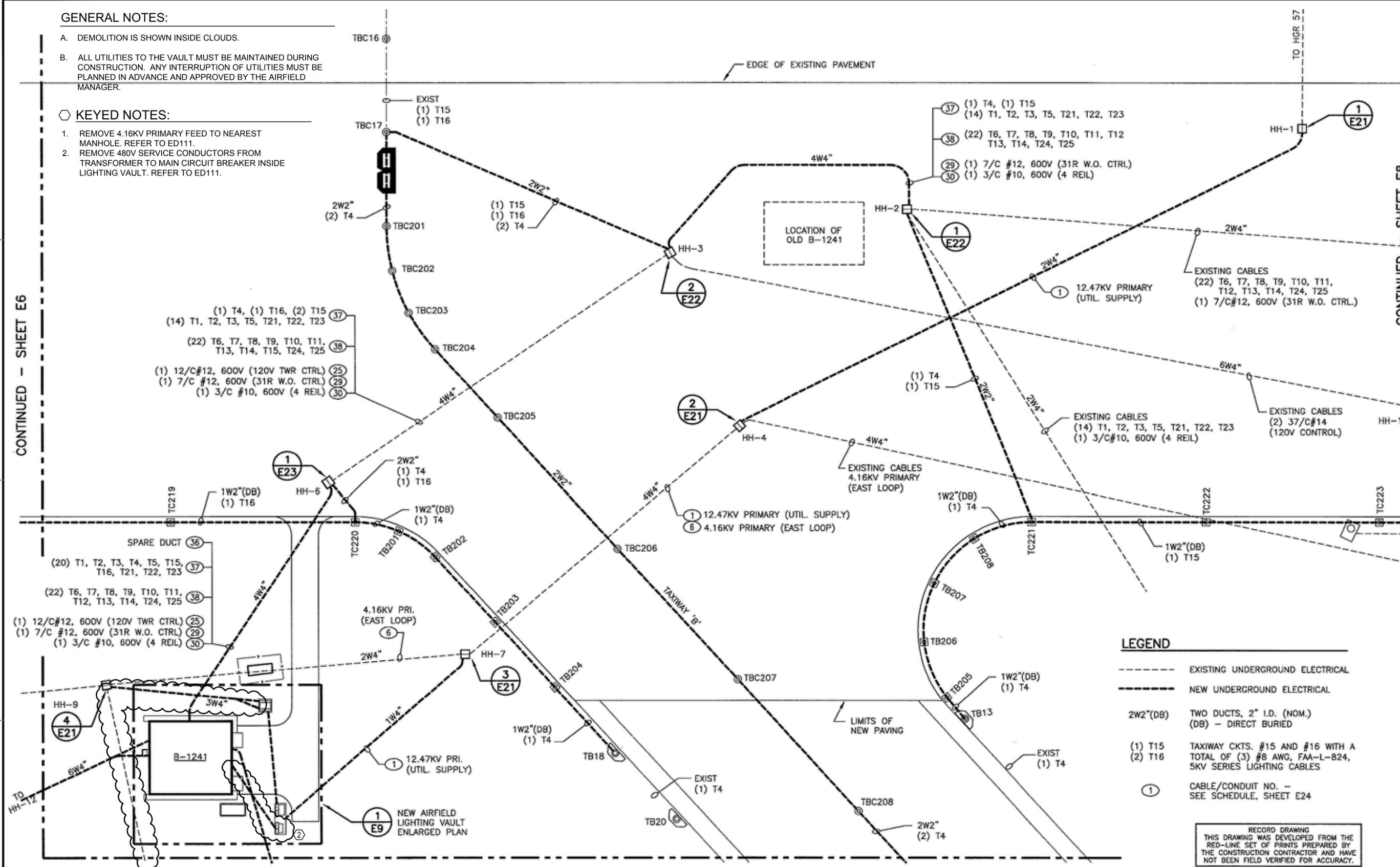
- A. DEMOLITION IS SHOWN INSIDE CLOUDS.
- B. ALL UTILITIES TO THE VAULT MUST BE MAINTAINED DURING CONSTRUCTION. ANY INTERRUPTION OF UTILITIES MUST BE PLANNED IN ADVANCE AND APPROVED BY THE AIRFIELD MANAGER.

KEYED NOTES:

- 1. REMOVE 4.16KV PRIMARY FEED TO NEAREST MANHOLE. REFER TO ED111.
- 2. REMOVE 480V SERVICE CONDUCTORS FROM TRANSFORMER TO MAIN CIRCUIT BREAKER INSIDE LIGHTING VAULT. REFER TO ED111.

CONTINUED - SHEET E6

CONTINUED - SHEET E8

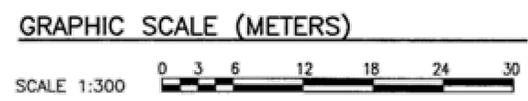


LEGEND

- EXISTING UNDERGROUND ELECTRICAL
- NEW UNDERGROUND ELECTRICAL
- 2W2"(DB) TWO DUCTS, 2" I.D. (NOM.) (DB) - DIRECT BURIED
- (1) T15 TAXIWAY CKTS. #15 AND #16 WITH A TOTAL OF (3) #8 AWG, FAA-L-824, 5KV SERIES LIGHTING CABLES
- (2) T16
- ① CABLE/CONDUIT NO. - SEE SCHEDULE, SHEET E24

RECORD DRAWING
THIS DRAWING WAS DEVELOPED FROM THE RED-LINE SET OF PRINTS PREPARED BY THE CONSTRUCTION CONTRACTOR AND HAVE NOT BEEN FIELD VERIFIED FOR ACCURACY.

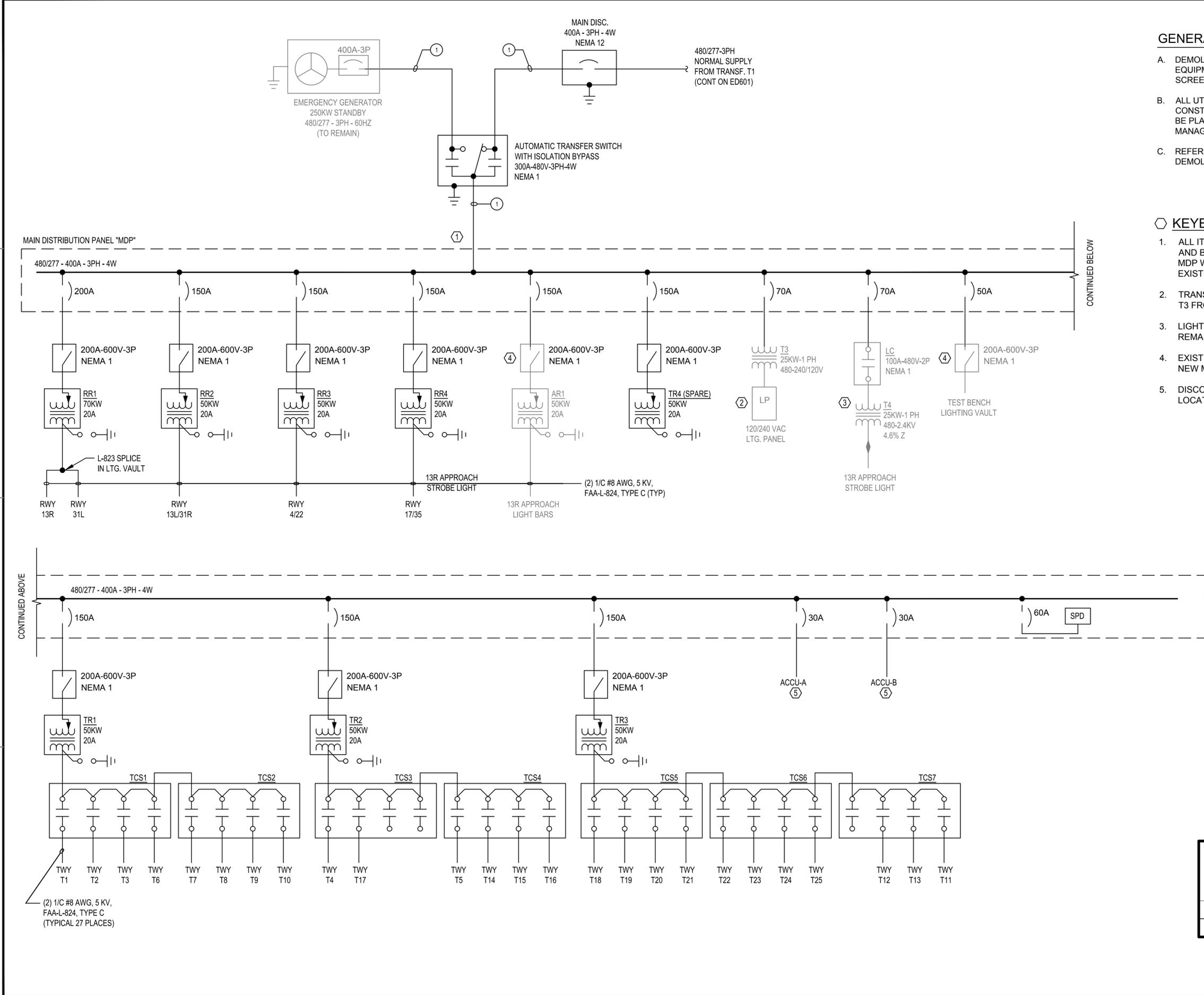
1
E7 LIGHTING VAULT AREA PLAN
SCALE: 1:300



<p>ISSUED FOR BID</p> <p>DATE: 8 JUN 15</p>	<p>APPROVED FOR COMMANDER NAVFAC</p> <p>SATISFACTORY TO DATE</p> <p>DES DS [] DRW NJS [] CHK DWM []</p> <p>PM/DM</p> <p>BRANCH MANAGER</p> <p>CHIEF ENG / ARCH</p> <p>FIRE PROTECTION</p>
<p>APPROVED FOR COMMANDER NAVFAC</p> <p>ACTIVITY</p>	
<p>DEPARTMENT OF THE NAVY</p> <p>NAVAL FACILITIES ENGINEERING COMMAND</p> <p>NAVAL AIR STATION JACKSONVILLE</p> <p>CIBL CODE</p> <p>NAS CORPUS CHRISTI</p> <p>NAS CORPUS CHRISTI AIRFIELD REPAIRS</p> <p>AIRFIELD LIGHTING VAULT</p> <p>DEMOLITION DUCT BANK PLAN</p>	
<p>SCALE: AS NOTED</p> <p>PROJECT NO: 15095096</p> <p>CONSTR. CONTR. NO:</p> <p>NAVFAC DRAWING NO: 15095096</p> <p>SHEET 26 OF 54</p> <p>ED110</p> <p><small>DRAWFORM REVISION 5 APRIL 2012</small></p>	

FILE NAME: P:\ED110-9000\ED110-9000\ED110.dwg LAYOUT NAME: ED110 PLOTTED: Tuesday, June 09, 2015 - 11:08am USER: lsbarm

FILE NAME: P:\FBV\1641-9KCM\A\2051134800-ANS_Corpus_Christi_Airfield_Repairs\20_DESIGN\40_040\134800-ED602.dwg LAYOUT NAME: ED602 PLOTTED: Tuesday, June 09, 2015 - 11:10am USER: lsberrn



- GENERAL NOTES:**
- A. DEMOLITION WORK IS INDICATED BY BOLD LINEWEIGHT. EQUIPMENT AND DEVICES TO REMAIN ARE INDICATED BY SCREENED LINEWEIGHT.
 - B. ALL UTILITIES TO THE VAULT MUST BE MAINTAINED DURING CONSTRUCTION. ANY INTERRUPTION OF UTILITIES MUST BE PLANNED IN ADVANCE AND APPROVED BY THE AIRFIELD MANAGER.
 - C. REFER TO E-402, E-403 AND 404 FOR EQUIPMENT DEMOLITION SEQUENCE AND DETAILS.

- KEYED NOTES:**
- 1. ALL ITEMS SHALL BE REMOVED EXCEPT U/G CONDUIT AND BRANCH CIRCUIT WIRING AND CONDUIT FROM MDP WHICH WILL BE REQUIRED TO REMAIN UNTIL ALL EXISTING EQUIPMENT HAS BEEN OUT OF SERVICE.
 - 2. TRANSFORMER T3 AND PANEL LP TO REMAIN. REWIRE T3 FROM NEW MDP. REFER TO E-601.
 - 3. LIGHTING CONTACTOR LC AND TRANSFORMER T4 TO REMAIN. REWIRE LC TO NEW MDP. REFER TO E-601.
 - 4. EXISTING DISCONNECT TO REMAIN. REWIRE FROM NEW MDP. REFER TO E-601.
 - 5. DISCONNECT UNITS AND RECONNECT TO TEMPORARY LOCATION. REFER TO M-101.

EXISTING CABLE AND CONDUIT SCHEDULE		
ITEM #	CABLE	CONDUIT
①	3-500KCMIL, 1-1/0 GND	4"

DATE	8 JUN 15
ISSUED FOR BID	0
DESCRIPTION	
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE DES DS DRW NJS CHK DWM PM / DM BRANCH MANAGER CHIEF ENG / ARCH FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE CIBL CORE NAS CORPUS CHRISTI CORPUS CHRISTI, TEXAS NAS CORPUS CHRISTI AIRFIELD REPAIRS AIRFIELD LIGHTING VAULT DEMOLITION MAIN DISTRIBUTION PANEL	
SCALE: AS NOTED PROJECT NO.: CONSTR. CONTR. NO.: NAVFAC DRAWING NO.: 15095102 SHEET 32 OF 54 ED602 <small>DRAWFORM REVISION: 5 APRIL 2012</small>	

1

2

3

4

5

- DUCTBANK NOTES**
- SEPARATE LOW VOLTAGE ($\leq 600V$) FROM HIGHER VOLTAGE CABLES ($> 600V - 5,000V$). SEPARATE ALL POWER CABLES FROM CONTROL, TELEPHONE, AND COAXIAL TYPE CABLES.
 - 600V AND 5,000V POWER CABLES SHOULD BE PLACED IN SEPARATE DUCT, OR SEPARATED MINIMUM 4" IF DIRECT BURIED IN TRENCH.
 - POWER CABLES OF MORE THAN 5,000V MUST BE SEPARATED FROM ALL OTHER CABLES BY MINIMUM 12".
 - ALL POWER CABLES SHOULD BE IN SEPARATE DUCT BANK FROM ALL CONTROL, TELEPHONE AND COAXIAL TYPE CABLES, OR SEPARATED MINIMUM 6" IF EITHER IS DIRECT BURIED.
 - IF CABLES ARE PLACED AT MORE THAN ONE LEVEL, THE MINIMUM VERTICAL SEPARATION SHOULD BE THE SAME AS THE MINIMUM HORIZONTAL SEPARATION. DO NOT DIRECTLY OVERLAP CABLES, IN ORDER TO AVOID DAMAGE DURING COMPACTION.
 - WHERE ROCK EXCAVATION IS ENCOUNTERED, INSTALL CABLE IN DUCT. REMOVE ROCK TO DEPTH OF AT LEAST 3" BELOW REQUIRED DEPTH OF DUCT, AND USE ADEQUATE BEDDING MATERIAL TO PROVIDE UNIFORM SUPPORT ALONG ENTIRE LENGTH.
 - FOR DUCT BANKS, USE INTERLOCKING DUCT SPACERS AT NOT MORE THAN 5' TO ENSURE UNIFORM SPACING BETWEEN DUCTS AND TO HOLD DUCT IN PLACE WHEN CONCRETE ENCASING. STAGGER JOINTS IN ADJACENT DUCT AT LEAST 2'.
 - SLOPE DUCT LINES WHERE PRACTICAL FOR DRAINAGE TOWARD MANHOLES/HANDHOLES, OR DUCT ENDS.
 - PROVIDE GROUND BUSHINGS WHERE RIGID CONDUITS ENTER OR LEAVE A MANHOLE.
 - USE 36" RADIUS SWEEPS FOR 2" AIRFIELD LIGHTING CABLE DUCTS BETWEEN VAULT AND PULLCAN PLAZAS.
 - FIELD LOCATE PULL CAN PLAZAS PZ-2, PZ-3 AND PZ-4.

- PULLCAN PLAZA SCHEDULE (PZ-1)**
- *EMPTY SPARE (600V)
 - *RW 17,22 WC (600V)
 - EXISTING R1 (5kV)
 - EXISTING C2 (5kV)
 - C16 (5kV)
 - C15 (5kV)
 - RW 17 PAPI (5kV)
 - RW 4 PAPI (5kV)
 - RW 22 PAPI (5kV)
 - RW 4 REIL (5kV)
 - RW 22 REIL (5kV)
- * INDICATES 600V PULL CAN AND CONDUIT TO BE RUN TO THE 600V PULL BOX AT VAULT

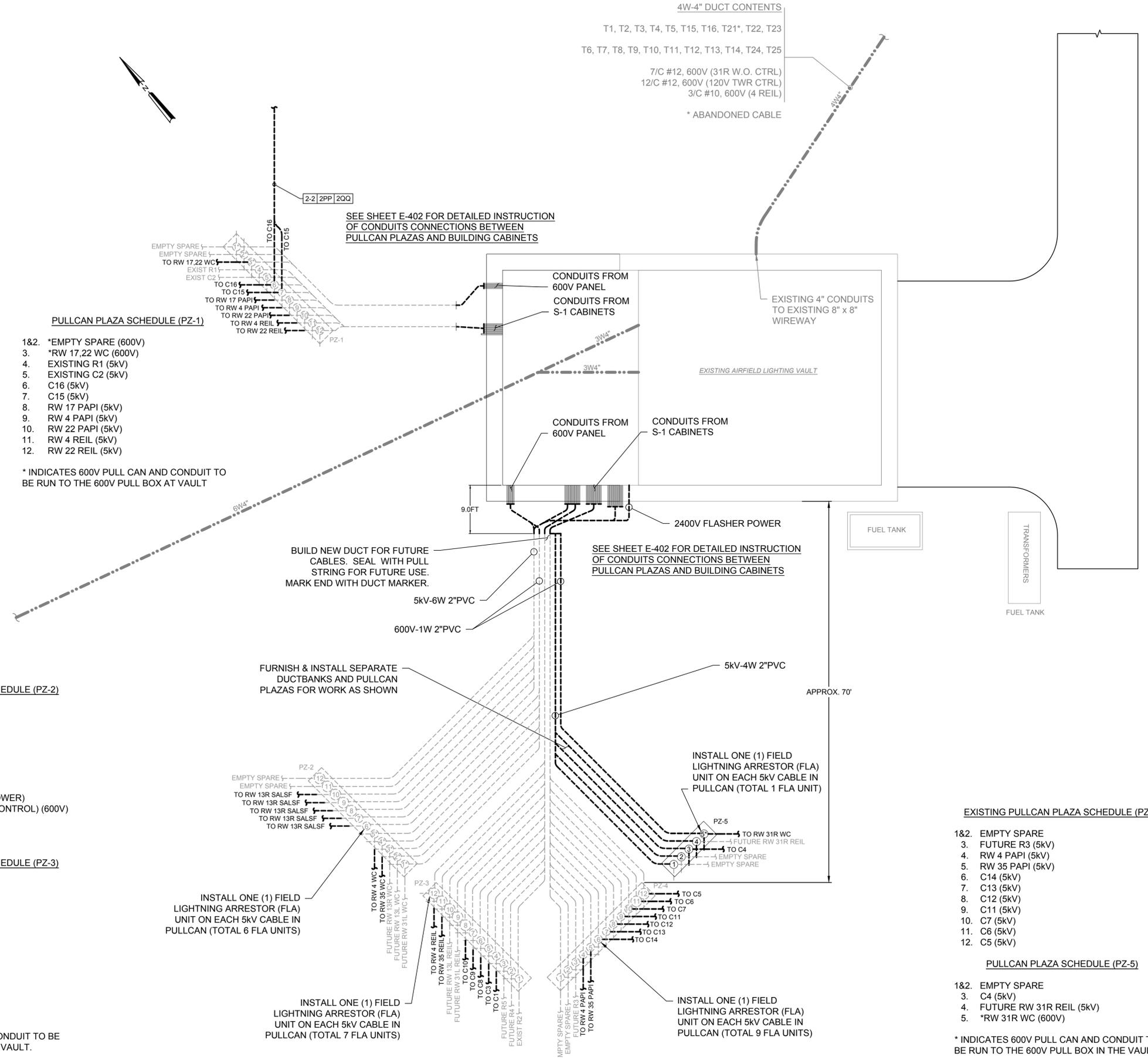
- EXISTING PULLCAN PLAZA SCHEDULE (PZ-2)**
- *FUTURE RW 31L WC (600V)
 - *FUTURE RW 13L WC (600V)
 - *FUTURE RW 13R WC (600V)
 - *RW 35 WC (600V)
 - *RW 4 WC (600V)
 - RW 13R SALSF (CIRCUIT A)
 - RW 13R SALSF (CIRCUIT B)
 - RW 13R SALSF (CIRCUIT C)
 - RW 13R SALSF (FLASHER POWER)
 - *RW 13R SALSF (FLASHER CONTROL) (600V)
 - EMPTY SPARE
 - EMPTY SPARE

- EXISTING PULLCAN PLAZA SCHEDULE (PZ-3)**
- EXISTING R2 (5kV)
 - FUTURE R4 (5kV)
 - FUTURE R5 (5kV)
 - C1 (5kV)
 - C3 (5kV)
 - C8 (5kV)
 - C9 (5kV)
 - C10 (5kV)
 - FUTURE RW 31L REIL (5kV)
 - FUTURE RW 13L REIL (5kV)
 - RW 35 REIL (5kV)
 - RW 4 REIL (5kV)

* INDICATES 600V PULL CAN AND CONDUIT TO BE RUN TO THE 600V PULL BOX IN THE VAULT.

SEE SHEET E-402 FOR DETAILED INSTRUCTION OF CONDUITS CONNECTIONS BETWEEN PULLCAN PLAZAS AND BUILDING CABINETS

- 4W-4" DUCT CONTENTS**
- T1, T2, T3, T4, T5, T15, T16, T21*, T22, T23
 T6, T7, T8, T9, T10, T11, T12, T13, T14, T24, T25
- 7/C #12, 600V (31R W.O. CTRL)
 12/C #12, 600V (120V TWR CTRL)
 3/C #10, 600V (4 REIL)
- * ABANDONED CABLE



FILE NAME: N:\14072\04 040\03a-10a\155163-E-ES101.dwg PLOTTED: Tuesday, June 09, 2015 - 9:43am USER: nmm

1 AIRFIELD VAULT DUCTBANK PLAN
 SCALE: NTS

DATE	8 JUN 15
ISSUED FOR	BID
DESCRIPTION	0

COMMONWEALTH OF VIRGINIA
 DAVID A. BURGESS
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 PROFESSIONAL ENGINEER

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APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES: DAB | DRW: DAB | CHK: JMM

PROJECT MANAGER

IP/T TECH. BRANCH HEAD

CHIEF ENGINEER (CORE)

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 SOUTHEAST
 NAVAL AIR STATION JACKSONVILLE
 CIBL CORE
 NAS CORPUS CHRISTI
 CORPUS CHRISTI, TEXAS
NAS CORPUS CHRISTI AIRFIELD REPAIRS
AIRFIELD LIGHTING VAULT
 AIRFIELD VAULT DUCTBANK PLAN

SCALE: NTS

PROJECT NO.: 15095103

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 15095103

SHEET 33 OF 54

ES101

DRAWING REVISION: 5 APRIL 2012