

METER LOCATION SCHEDULE BUILDING/ SHOWN ON TAG SHEET LOCATION 4841 4841PV ES107 4930 4930PV ES107 BLADE ES102 C STATION C STATION C10 ES101 C7 ES101 C STATION С8 ES101 C STATION ES101 C STATION С9 D10 ES102 D STATION D13 ES102 D STATION D STATION D14 ES102 D17 ES102 D STATION D STATION D18 ES102 D STATION D24 ES102 D STATION D25 ES102 D STATION ES102 D9 F STATION F19 ES103 F STATION F20 ES103 F21 ES103 F STATION F STATION F22 ES103 F STATION F-E TIE ES103 STALL 1 ER ES102 188 188 STALL 2 ER ES102 STALL 3 ER ES102 188 STALL 4 ER ES102 188 4034 XFMR-AA ES101 XFMR-AAA ES104 143 ES101 245 XFMR-AB ES101 245 XFMR-BA ES105 163 XFMR-BBA XFMR-CA ES101 3766 ES105 4033 XFMR-CCA 4036 ES101 XFMR-DA 4032 ES105 XFMR-DDA 138 ES101 XFMR-EA 138 ES101 XFMR-EB 138 XFMR-EC ES101 138 XFMR-ED ES101 138 XFMR-EE ES101 4172 XFMR-EEA ES105 137 XFMR-FA ES101 137 XFMR-FB ES101 XFMR-FC ES101 XFMR-FD ES101 137 137 XFMR-FE ES101 137 XFMR-FF ES101 XFMR-FFA ES105 4172 137 XFMR-FG ES101 XFMR-FH ES101 137 XFMR-FI ES101 137 XFMR-FJ ES102 137

XFMR-FK

ES101

137

METER	LOCATION	SCHEDULE
	SHOWN ON	BUILDING/
TAG	SHEET	LOCATION
XFMR-GA	ES102	RAMAIR
XFMR-GCA	ES105	4247
XFMR-HA	ES102	84
XFMR-HHA	ES103	154
XFMR-IA	ES102	83
XFMR-IB	ES102	83
XFMR-IIA	ES106	159
XFMR-IIC	ES106	159
XFMR-IWPD	ES105	4247
XFMR-JA	ES102	4035
XFMR-JB	ES102	4035
XFMR-JJA	ES107	4470
XFMR-JJB	ES107	200
XFMR-KA	ES102	129
XFMR-LA	ES102	188
XFMR-LB	ES102	188
XFMR-MA	ES102	133
XFMR-MB	ES102	133
XFMR-MC	ES102	133
XFMR-MD	ES102	133
XFMR-ME	ES102	133
XFMR-MF	ES102	133
XFMR-MG	ES102	133
XFMR-MH	ES103	133
XFMR-MI	ES103	133
XFMR-NA	ES102	4188
XFMR-NB	ES102	4807
XFMR-OA	ES102	4533
XFMR-OB	ES102	4497
XFMR-OC	ES102	4498
XFMR-OD	ES102	4498
XFMR-RA	ES102	3402
XFMR-SA	ES103	1006
XFMR-SB	ES103	CANS
XFMR-TA	ES103	1798
XFMR-TB	ES103	1798
XFMR-TC	ES103	1798
XFMR-TD	ES103	1798
XFMR-UA	ES103	3767
XFMR-UB	ES103	4809
XFMR-VA	ES103	4224
XFMR-VB	ES103	4224
XFMR-WA	ES103	4225
XFMR-WB	ES103	4225
XFMR-XA	ES104	1793
XFMR-XB	ES104	1792
XFMR-YA	ES104	1794
XFMR-ZZ1	ES107	4841
XFMR-ZZ2	ES107	4841
XFMR-ZZ3	ES107	4930
XFMR-ZZ4	ES107	4930
ZFDR	ES103	F STATION

ESTIMATED QUANTITIES FO	OR "UNIT F	PRICED BID	ITEMS"
DESCRIPTION	QUANTITIES	MULTIPLIERS FOR UNFORESEEN INCREASES	BID QUANTITIES
1" CONDUIT	3,950 LF	1.10	4,345 LF
RS-485 COMMUNICATION CABLING	27,750 LF	1.10	30,525 LF

GENERAL ELECTRICAL NOTES

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT. THE CONTRACTOR MUST REVIEW ALL CONTRACT DOCUMENTS INCLUDING DRAWINGS AND SPECIFICATIONS. CONTRACTOR MUST COORDINATE AND ADJUST ACCORDINGLY AS DIRECTED BY THE CONTRACTING OFFICER.

AS-BUILT DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK, DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS MUST REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE ENGINEER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE CONTRACTING OFFICER.

CONNECTION DETAILS: SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS, ROUGH-IN AND HOOK UP DETAILS FROM OTHER INVOLVED CONTRACTORS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

WORKING CLEARANCE: COORDINATE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MECHANICAL DUCTWORK, PIPING ETC. AND ASSURE WORKING CLEARANCE REQUIRED BY NEC WILL BE MET. SUFFICIENT ACCESS AND WORKING SPACE MUST BE PROVIDED AND MAINTAINED AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. CONTRACTOR MUST COORDINATE FINAL LOCATION OF EQUIPMENT PROVIDED AND INSTALLED BY OTHER TRADES.

Mounting Heights: Mounting Heights Indicated are from the Finished Floor TO THE CENTERLINE OF THE WIRING DEVICE UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURE UNLESS OTHERWISE NOTED.

BARRIERS: WHERE A MULTIPLE-GANG BOX HAS CIRCUITS OF DIFFERENT VOLTAGES OR SYSTEMS WHICH ARE REQUIRED TO BE SEPARATED, PROVIDE THE CODE-REQUIRED SEPARATION USING A FULL HEIGHT AND DEPTH BARRIER PLATE.

<u>FIRE STOPPING:</u> FOR ANY WALL OR FLOOR PENETRATIONS THROUGH FIRE-RATED STRUCTURES PROVIDE FIRE—STOPPING TO SEAL ALL THE PENETRATIONS AFTER THE CONDUIT HAS BEEN INSTALLED. FIRE STOPPING FOR PENETRATIONS MUST BE UL APPROVED PER THE PENETRATION MADE IN ORDER TO MAINTAIN FIRE-RATED INTEGRITY OF THE STRUCTURE.

CLEAN UP: ON PROJECT CLOSE-OUT CLEAN ALL ELECTRICAL DEVICES.

CEILING PLENUM: THE CEILING SPACE IS A RETURN AIR PLENUM. ALL LOW VOLTAGE CABLE MUST BE PLENUM RATED. REFER TO NEC ART. 300.22 FOR PROVISIONS APPLICABLE TO PLENUMS.

OWNER STANDARDS: ALL WORK MUST COMPLY WITH THE OWNER'S PUBLISHED STANDARDS WHICH ARE AVAILABLE DIRECTLY FROM THE OWNER.

REPAIR DAMAGE: EXERCISE CARE IN REMOVAL OF DEMOLITION ITEMS AND WHEN NEW WORK REQUIRES DAMAGE TO FINISHES AND EXISTING CONSTRUCTION. REPAIR, AT NO ADDITIONAL COST TO THE GOVERNMENT, ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN. WHERE WORK RESULTS IN DAMAGED SURFACES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND FINISHING THE SURFACE TO MATCH ADJACENT CONDITIONS.

TABULATED QUANTITIES:

THE TABULATED QUANTITIES SHOWN ON THESE SHEETS ARE BASED UPON FIELD OBSERVATIONS WITHOUT DEMOLITION AND REVIEW OF RECORD DRAWINGS. ESTIMATED QUANTITIES ARE TABULATED FOR CONTRACTOR'S ASSISTANCE; REFER TO THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL ITEMS NOT IDENTIFIED IN THESE TABLES. THE CONTRACTOR SHALL MEASURE FOR FINAL PAYMENT THE ACTUAL QUANTITIES APPLIED IN THE FIELD AND SUBMIT TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL

COMMUNICATION CABLING REPLACEMENT:

UNLESS OTHERWISE NOTED, ALL METERS IDENTIFIED UNDER THIS CONTRACT MUST HAVE THEIR COMMUNICATION CABLING, BETWEEN METERS AND ASSOCIATED EMCS JCI METASYS NAE OR NCE, REMOVED AND REPLACED IN ITS ENTIRETY. THE "METER AND CURRENT TRANSFORMER SCHEDULE" ON SHEET E-002 INDICATES EACH METER'S LOCATION ON ITS ASSOCIATED COMMUNICATION TRUNK, INCLUDING THE "BEFORE" AND "AFTER" DEVICES. THIS SCHEDULE ALSO INDICATES THE SITE PLAN ON WHICH THE METER CAN BE FOUND, THE BUILDING (OR OTHER IDENTIFIER) LOCATION, THE ASSOCIATED METASYS NAE OR NCE, THE ASSOCIATED SYSTEM ARCHITECTURE SCENARIO, AND THE COMMUNICATION TRUNK ASSOCIATED WITH EACH METER. REFER TO THE DEMOLITION AND NEW WORK NOTES FOLLOWING THIS SCHEDULE ON SHEET E-002, THE SYSTEM ARCHITECTURE SCENARIOS ON SHEETS E-701, E-702, AND E-703, AND THE DETAILS ON SHEET E-501 FOR ADDITIONAL INFORMATION

ABBREVIATIONS ELECTRICAL LEGEND POWER PAD MOUNTED TRANSFORMER: UON. METER INSTALLED LOCALLY AT TRANSFORMER OF ASSOCIATED SWITCHBOARD - INDICATES FRONT PAD MOUNTED TRANSFORMER WITH N2 METER: UON, METER INSTALLED LOCALLY AT TRANSFORMER OF ASSOCIATED SWITCHBOARD - INDICATES FRONT METER INSTALLED REMOTELY FROM TRANSFORMER. AT SWITCHGEAR OR SWITCHBOARD TRANSFORMER THAT FEEDS SWITCHBOARD/SWITCHGEAR NAE-1 EXISTING NETWORK AUTOMATION ENGINE DESIGNATION MODEL NUMBER. COMMUNICATIONS PROTOCOL 55, N2/BAC NCE-1 EXISTING NETWORK CONTROL ENGINE DESIGNATION MODEL NUMBER, COMMUNICATIONS PROTOCOL 25, N2/BAC EN1-1 EXISTING DDC SYSTEM N2 DEVICE/ENCLOSURE SBC SUPERVISORY BUILDING CONTROLLER NS TELECOMMUNICATIONS NETWORK SWITCH JUNCTION BOX SECTIONALIZING STATION (E) SQUARE D TRUNK "A" (E) COMMUNICATIONS TRUNK "A1" (E) SQUARE D TRUNK "B" --- (E) SQUARE D TRUNK "D" ----- OTHER COMMUNICATIONS TRUNK **GENERAL**

EMCS SOFTWARE UPGRADE:

THE EXISTING FRC-E BASEWIDE EMCS METASYS® SOFTWARE SHALL BE UPGRADED TO INTEGRATE NEW METER POINTS AND GRAPHICS INTO THE EXISTING SYSTEM INCLUDING STORAGE OF METER DATA TO HISTORY FILES. NEW GRAPHICS SCREENS FOR POWER MONITORING SYSTEM (PMS) METERS AND SCREENS FOR ANALYSIS OF HISTORICAL METER DATA/TRENDS SHALL BE PROVIDED. THE PMS SHALL HAVE AN INTERFACE THAT ALLOWS MULTIPLE POINTS TO BE SELECTED FROM POINTS LISTS FOR USER SELECTED TIME PERIODS. REPORT AND GRAPH FORMATS SHALL BE FLEXIBLE AND ALLOW USER CONFIGURATION OF SCALES, RANGES, COLORS, LINE TYPES, LEGENDS, LABELS, ETC. REPORTS SHALL ALLOW SUMMARY STATISTICS TO BE CALCULATED FOR SELECTED POINTS AND ALLOW OUTPUT TO SPREADSHEET PROGRAMS. PRINTING CAPABILITY SHALL ALSO BE INCLUDED. DATABASE MAINTENANCE FUNCTIONS SUCH AS DATA BACKUP TO ARCHIVE AND RETRIEVAL FROM ARCHIVE SHALL BE INCLUDED. THIS APPLICATION SHALL BE ACCESSIBLE FROM ANY EMCS WORKSTATION (EXISTING AND NEW WORKSTATIONS PROVIDED UNDER THIS CONTRACT). IF THE METASYS® SOFTWARE DOES NOT HAVE THIS CAPABILITY, THEN A SEPARATE APPLICATION CAN BE USED THAT ACCESSES THE HISTORICAL DATA.

NEW WORK NOTE SYMBOL

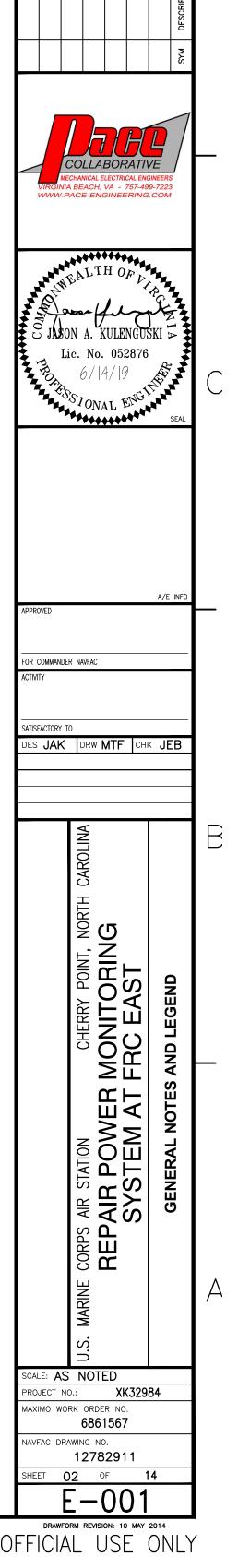
DEMOLITION NOTE SYMBOL

IN ADDITION TO SUBMITTING SOFTWARE PRODUCT DATA FOR REVIEW AND APPROVAL BY THE GOVERNMENT AND A/E, A REPRESENTATIVE FROM THE DDC CONTROLS SYSTEM PROVIDER, WITH SPECIFIC EXPERTISE IN THE SOFTWARE BEING SUBMITTED FOR APPROVAL, SHALL VISIT CHERRY POINT TO PERFORM A DETAILED POWERPOINT AND HANDS—ON PRESENTATION ON THE PROPOSED SOFTWARE TO GOVERNMENT PERSONNEL AND ONE OR MORE REPRESENTATIVES FROM THE A/E TEAM. THE PRESENTATION SHALL INCLUDE A COMPREHENSIVE REVIEW OF THE USER INTERFACE SCREENS AND DETAILS OF THE SOFTWARE. OBTAIN APPROVAL FROM THE COTR AND A/E OF THE PRESENTATION SCHEDULE AT LEAST 30 DAYS PRIOR TO THE PROPOSED PRESENTATION DATE.

AFG ABOVE FINISHED GRADE AIC AMPERE INTERRUPTING CAPACITY ATS AUTOMATIC TRANSFER SWITCH A/E ARCHITECT/ENGINEER BFG BELOW FINISHED GRADE C CONDUIT CKT CIRCUIT CB CIRCUIT BREAKER COTR CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE CONN CONNECTION DDC DIRECT DIGITAL CONTROLS EC EMPTY CONDUIT EMCS ENERGY MANAGEMENT CONTROL SYSTEM EQUIP EQUIPMENT EOL END OF LINE ER ELECTRICAL RACK ETR EXISTING TO REMAIN EXIST, (E) EXISTING FEC FIELD EQUIPMENT CONTROLLER FRCE FLEET READINESS CENTER EAST GND GROUND JCI JOHNSON CONTROLS, INC. KAIC THOUSAND AMPERE INTERRUPTING CAPACITY KVA KILO-VOLT-AMPERES KW KILO-WATTS MCA MINIMUM CIRCUIT AMPS MCB MAIN CIRCUIT BREAKER MFR MANUFACTURER MLO MAIN LUGS ONLY MTD MOUNTED NAE NETWORK AUTOMATION ENGINE NCE NETWORK CONTROL ENGINE NEC NATIONAL ELECTRICAL CODE NIC NOT IN CONTRACT NTS NOT TO SCALE OC ON CENTER P POLE PNL PANEL PNLBD PANELBOARD Ø PHASE PRI PRIMARY PV PRIMARY VOLTAGE REQ'D REQUIRED RDT&E RESEARCH. DEVELOPMENT. TEST & EVALUATION SBC SUPERVISORY BUILDING CONTROLLER SE SERVICE ENTRANCE SEC SECONDARY TYP TYPICAL UNT JCI UNITARY CONTROLLER UON UNLESS OTHERWISE NOTED UTP UNSHIELDED TWISTED PAIR V VOLT WP WEATHERPROOF XFMR TRANSFORMER

A AMPERE

AFF ABOVE FINISHED FLOOR



											3 5 UNCLASSIFIED//FOR OFFICE	JIAL USE
	T	T 1						SCHEDULE	OUDDENT.		METER AND CURRENT TRANSFORMER SCHEDULE (CONT.)	
TAG	FROM	TO	SHOWN ON SHEET	LOCATION 1	NUMBER (KVA)	SYSTEM ARCHITECTURE SCENARIO	E COMMUNICATION TRUNK	VOLT/PHASE/WIRE	CURRENT RATIO	REMARKS	TAG FROM TO SHEET LOCATION NUMBER (KVA) SCENARIO TRUNK VOLT/PHASE/WIRE RATIO REMARKS	
MR-MD MR-MG	NAE-1 XFMR-MD	XFMR-MG XFMR-MA	ES102 ES102	133 133	1 1500 1 750	A A	A A	480/277V / 3ø / 4W 208/120V / 3ø / 4W	2000 TO 5 2400 TO 5	D3, N3 D3, N3	XFMR-JJB NAE-9 XFMR-JJA ES107 200 9 500 A - 480/277V / 3ø / 4W 600 TO 5 D2, N2 XFMR-JJA XFMR-JJB EOL ES107 4470 9 1500 A - 480/277V / 3ø / 4W 2000 TO 5 D2, N2	
MR-MA	XFMR-MG	XFMR-MC	ES102	133	1 2000	A	A	480/277V / 3ø / 4W	2400 TO 5	D3, N3	XFMR-ZZ2 UNKNOWN XFMR-ZZ1 ES107 4841 16 500 A - 480/277V / 3ø / 4W 600 TO 5 N11, N18, N20	
MR-MC MR-MB	XFMR-MA XFMR-MC	XFMR-MB XFMR-MF	ES102 ES102	133	1 300 1 2000	A 	<u>А</u>	208/120V / 3ø / 4W 2400V / 3ø / 3W	1000 TO 5 600 TO 5	D3, N3 D3, N3, N15	XFMR-ZZ1 XFMR-ZZ2 4841PV ES107 4841 16 500 A - 208/120V / 3ø / 4W 1600 TO 5 N11, N18, N20 4841PV XFMR-ZZ1 UNKNOWN ES107 4841 16 50 A - 480/277V / 3ø / 4W 100 TO 5 D11, N17, N20	
MR-MF	XFMR-MB	XFMR-ME	ES102	133	1 2500	A	A		3000 TO 5	N14	XFMR-ZZ3 UNKNOWN UNKNOWN ES107 4930 18 750 A - 480/277V / 3ø / 4W 1000 TO 5 N11, N19, N20	
MR-ME	XFMR-MF	EOL	ES102	133	1 2500	А	A	480/277V / 3ø / 4W	3000 TO 5	D5, N3	XFMR-ZZ4 UNKNOWN UNKNOWN ES107 4930 18 2000 A — 4160/2400V / 3ø / 4W 400 TO 5 D10, N3, N11, N15, N20	
FMR-MI	NAE-15	XFMR-MH	ES103	133	15 3000	A	_	<u>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </u>	4000 TO 5	N2 N2, N15	4930PV UNKNOWN UNKNOWN ES107 4930 18 50 A - 480/277V / 3ø / 4W 100 TO 5 D11, N17, N20	
MR-MH 	XFMR-MI NAE-19	EOL XFMR-TA	ES103 ES103	133	15 1000 19 500	A	Λ1	4160V / 3ø / 4W 208/120V / 3ø / 4W	200 TO 5	D4, N2	C7 NAE-3 C8 ES101 C STATION 3 - D - 12470/7200V / 3ø / 4W 1200 TO 5 D1, N1, N15 C8 C7 C9 ES101 C STATION 3 - D - 12470/7200V / 3ø / 4W 1200 TO 5 D1, N1, N15	
FMR-TA	XFMR-TB	XFMR-TD	ES103	1798	19 750	A	A1	480V / 3ø / 3W	1000 TO 5	D4, N2, N15	C9 C8 C10 ES101 C STATION 3 - D - 12470/7200V / 3ø / 4W 1200 TO 5 D1, N1, N15	
MR-TD	XFMR-TA	XFMR-TC	ES103	1798	19 300	A	A1	480/277V / 3ø / 4W	400 TO 5	D8, N6	C10 C9 BLADE ES101 C STATION 3 - D - 12470/7200V / 3ø / 4W 1200 TO 5 D1, N1, N15 D1, N15 D1, N15	
FMR-TC	XFMR-TD XFMR-TC	XFMR-UA XFMR-UB	ES103 ES103	1798 3767	19 2160 19 150	A	Δ1 Δ1	' , ', ', ', ',	2000 TO 5 400 TO 5	D8, N6, N15 D9, N2	D9 NAE-2 D10 ES102 D STATION 2 - D - 12470/7200V / 3ø / 4W 2000 TO 5 D1, N1, N15	
MR-UB	XFMR-UA	XFMR-RA	ES103	4809	19 225	A	A1	 '. '. '. '. 	300 TO 5	N2	D10 D9 D13 ES102 D STATION 2 - D - 12470/7200V / 3ø / 4W 2000 TO 5 D1, N1, N15	
MR-RA	XFMR-UB	EOL	ES102	3402	19 2500	А	A1	480/277V / 3ø / 4W	3000 TO 5	D3, N3	D13 D10 D14 ES102 D STATION 2 - D - 12470/7200V / 3ø / 4W 2000 TO 5 D1, N1, N15	COLLABORA
MR-OC	SBC	XFMR-OD	ES102	4498	- 750	С	A2	<u> </u>	1000 TO 5	D4, N2, N13	D14 D13 D17 ES102 D STATION 2 - D - 12470/7200V / 3ø / 4W 2000 TO 5 D1, N1, N15 D17 D14 D18 ES102 D STATION 2 - D - 12470/7200V / 3ø / 4W 2000 TO 5 D1, N1, N15	VIRGINIA BEACH, VA - 7 WWW.PACE-ENGINEE
MR-OD MR-OA	XFMR-OC XFMR-OD	XFMR-OA XFMR-OB	ES102 ES102	4498 4533	- 750 - 500	<u> </u>	A2 Δ2	 	1000 TO 5 600 TO 5	D4, N2, N13 D4, N2, N13	D18 D17 D24 ES102 D STATION 2 - D - 12470/7200V / 3ø / 4W 2000 TO 5 D1, N1, N15	
MR-OB	XFMR-OA	EOL	ES103	4497	- 750	C	A2	<u> </u>	1000 TO 5	D8, N6, N13	D24 D18 D25 ES102 D STATION 2 - D - 12470/7200V / 3ø / 4W 2000 TO 5 D1, N1, N15	**************************************
MR-JA	NAE-1	XFMR-JB	ES102	4035	1 1500	A	В		2000 TO 5	D6, N7	D25 D24 EOL ES102 D STATION 2 - D - 12470/7200V / 3ø / 4W 2000 T0 5 D1, N1, N15	AMEALTH O
MR-JB	XFMR—JA	XFMR-KA	ES102	4035	1 1500	A	В		2000 TO 5	D6, N7	F19 NAE-8 F20 ES103 F STATION 8 - D - 12470/7200V / 3ø / 4W 600 TO 5 D1, N1, N15 F20 F19 F21 ES103 F STATION 8 - D - 12470/7200V / 3ø / 4W 600 TO 5 D1, N1, N15 3	Cample
MR-KA MR-FJ	XFMR-JB XFMR-KA	XFMR-FJ XFMR-FB	ES102 ES102	129	1 500 1 1500	<u>А</u> А	B B	 '. '. '. '. ' .	1600 TO 5 2000 TO 5	D4, N4 D6, N3	F21 F20 F22 ES103 F STATION 8 - D - 12470/7200V / 3ø / 4W 600 T0 5 D1, N1, N15	JASON A. KULE Lic. No. 05
MR-FB	XFMR-FJ	XFMR-FI	ES101	137	1 750	A	В	208/120V / 3ø / 4W	2400 TO 5	D3, N3	F22 F21 ZFDR ES103 F STATION 8 - D - 12470/7200V / 3ø / 4W 600 T0 5 D1, N1, N15	6/14/1
MR-FD	_	_	ES101	137	17 1000	<u> </u>	_	<u> </u>	1200 TO 5	N5	ZFDR F22 F—E TIE ES103 F STATION 8 — D — 12470/7200V / 3ø / 4W 600 TO 5 D1, N1, N15 74 F—E TIE ZFDR EOL ES103 F STATION 8 — D — 12470/7200V / 3ø / 4W 3000 TO 5 D1, N1, N15	ONAL
MR-FG MR-FF			ES101 ES101	137	17 750 17 2000	<u>E</u>		208/120V / 3ø / 4W 480/277V / 3ø / 4W		N5 N5	XFMR-AB N2 BUS CONN EOL ES101 245 3 1000 B - 480/277V / 3ø / 4W 1200 TO 5 N12	
MR-FE	_	_	ES101	137	17 1500	Ē	_	240V / 3ø / 3W	4000 TO 5	N5	XFMR-AA NAE-12 EOL ES101 4034 12 1500 A - 480/277V / 3ø / 4W 2000 TO 5 D12, N3	
MR-FI	XFMR-FE	XFMR-FH	ES101	137	1 1000	A	В	480/277V / 3ø / 4W	1200 TO 5	D3, N3	XFMR-NB N2 BUS CONN EOL ES102 4807 14 1000 B — 480/277V / 3ø / 4W 1200 TO 5 N2	
MR-FH MR-FK	XFMR-FI XFMR-FH	XFMR-FK XFMR-FA	ES101 ES101	137	1 3000 1 1500	А А	В	2400V / 3ø / 4W 480/277V / 3ø / 4W	800 TO 5	N2, N15 D3, N3	<u>DEMOLITION AND NEW WORK NOTES:</u> D1. REMOVE EXISTING ELECTRO—MECHANICAL METER MOUNTED TO EXISTING SUPPORT RACK.	
-MR-FA	XFMR-FK	XFMR-ED	ES101	137	1 1500	А	В	480/277V / 3ø / 4W	2000 TO 5	D3, N3	D2. REMOVE EXISTING VERIS MODEL H-8026 METER FROM XFMR.	
MR-ED MR-EA	XFMR-FA XFMR-ED	XFMR-EA XFMR-EB	ES101 ES101	138 138	1 750 1 2500	A	В	480/277V / 3ø / 4W 480/277V / 3ø / 4W	1000 TO 5	D3, N3 D4, N4	D3. REMOVE EXISTING SQUARE D MODEL PM-620 OR PM-650 METER FROM SWITCHBOARD OR SWITCHGEAR. D4. REMOVE EXISTING SQUARE D MODEL PM-620 OR PM-650 METER AT XFMR.	
MR-EA	XFMR-ED XFMR-EA	XFMR-EB XFMR-EC	ES101	138	1 500	A	В	 	1600 TO 5	D3, N3	D4. REMOVE EXISTING SQUARE D MODEL CM-2350 METER FROM SWITCHBOARD OR SWITCHGEAR.	ED
MR-EC	XFMR-EB	XFMR-EE	ES101	138	1 2500	А	В	2600V / 3ø / 3W	600 TO 5	D3, N3, N15	D6. REMOVE EXISTING SQUARE D MODEL CM-2350 METER FROM SUBSTATION.	
MR-EE MR-FC	XFMR-EC XFMR-EE	XFMR-FC XFMR-DA	ES101 ES101	138 137	1 300 1 750	A Δ	B B	240V / 3ø / 3W 480/277V / 3ø / 4W	800 TO 5	D3, N3, N11, N15 D4, N6	D7. REMOVE EXISTING SQUARE D MODEL CM—2350 METER AT XFMR. D8. REMOVE EXISTING SQUARE D METER MOUNTED TO EXISTING BUILDING OR CONCRETE ENCLOSURE WALL.	OMMANDER NAVFAC Y
MR-DA	XFMR-FC	XFMR-CA	ES101	4036	1 500	A	В	480/277V / 3ø / 4W		D4, N4	D9. REMOVE EXISTING SQUARE D METER MOUNTED TO EXISTING XFMR.	
MR-CA	XFMR-DA	XFMR-BA	ES101	3766	1 500	A	В	480/277V / 3ø / 4W		D4, N2		JAK DRW MTF
MR-BA	XFMR-CA	EOL	ES101	245	1 2300	A	R	480/277V / 3ø / 4W		D5, N3	D12. REMOVE EXISTING SQUARE D MODEL SERIES 3000/4000 METER FROM SWITCHBOARD OR SWITCHGEAR.	
FMR-IB FMR-IA	NAE-1 XFMR-IB	XFMR-IA XFMR-HA	ES102 ES102	83	1 500 1 300	A A	C	480/277V / 3ø / 3W 208/120V / 3ø / 4W		D4, N2 D4, N2	N1. INSTALL METER IN NEMA 4X ENCLOSURE, SIZE AS REQUIRED. MOUNT TO EXISTING SUPPORT RACK. REFER TO MOUNTING DETAILS A1 AND C2 ON SHEET E-501. N2. INSTALL METER IN NEMA 4X ENCLOSURE, SIZE AS REQUIRED. MOUNT TO EXTERIOR OF XFMR. REFER TO MOUNTING DETAIL C4 ON SHEET E-501.	
MR-HA	XFMR-IA	XFMR-GA	ES102	84	1 300	A	C	208/120V / 3ø / 4W		D4, N2	N3. INSTALL METER IN SWITCHBOARD OR SWITCHGEAR SECTION. MODIFY OPENING IN PANEL AS REQUIRED.	¥
MR-GA	XFMR-HA	XFMR—AAA	ES102	RAMAIR	1 1500	A	C	2400V / 3ø / 3W	400 TO 5	D4, N4, N15	N4. INSTALL METER IN EXISTING ENCLOSURE.	ROLI
MR-AAA MR-YA	XFMR-GA XFMR-AAA	XFMR-YA XFMR-XB	ES104 ES104	143 1794	1 1000 1 112.5	A	C	208/120V / 3ø / 4W 208/120V / 3ø / 4W	3000 TO 5 400 TO 5	D4, N2 D4, N6	N5. SWITCHGEAR AND ASSOCIATED METER REPLACED RECENTLY UNDER SEPARATE CONTRACT. INTEGRATE METER (SIEMENS SENTRON PAC4200) INTO THE EMCS TO ACHIEVE SAME FUNCTIONALITY AS METERS PROVIDED UNDER THIS PROJECT.	 5 +
MR-XB	XFMR-YA	XFMR-XA	ES104	1792	1 500	А	С	480/277V / 3ø / 4W	600 TO 5	D4, N9	N6. INSTALL METER IN WALL MOUNTED NEMA 4X ENCLOSURE, SIZE AS REQUIRED. REFER TO MOUNTING DETAIL A3 ON SHEET E-501.	lorii I
MR-XA	XFMR-XB	EOL	ES104	1793	1 4000	A	C	, ,	4000 TO 5	D8, N16, N17	N7. INSTALL METER IN SUBSTATION SECTION. MODIFY OPENING IN PANEL AS REQUIRED. N8. SWITCHBOARD AND ASSOCIATED METER REPLACED RECENTLY UNDER SEPARATE CONTRACT. INTEGRATE METER (SQUARE D PM850U) INTO THE EMCS TO ACHIEVE SAME FUNCTIONALITY AS METERS	
MR-VA MR-VB	NAE-6 XFMR-VA	XFMR-VB EOL	ES103 ES103	4224 4224	6 2500 6 2500	<u>+</u> F		480/277V / 3ø / 4W 480/277V / 3ø / 4W		N8 N8	PROVIDED UNDER THIS PROJECT. CONNECT TO BACNET BUS OF NAE-6.	
MR-WB	NAE-8	XFMR-WA	ES103	4225	8 2500	 A	D	480/277V / 3ø / 4W		D5, N3	N9. INSTALL METER ON NEW SUPPORTS IN NEMA 4X ENCLOSURE, SIZE AS REQUIRED. REFER TO MOUNTING DETAIL C1 ON SHEET E-501.	CHERRY POINT, NOF
MR-WA	XFMR-WB	XFMR-IIC	ES103	4225	8 2500	А	D	480/277V / 3ø / 4W	3000 TO 5	D5, N3	N10. SWITCHBOARD AND ASSOCIATED METER REPLACED RECENTLY UNDER SEPARATE CONTRACT. INTEGRATE METER (SQUARE D PM8ECC) INTO THE EMCS TO ACHIEVE SAME FUNCTIONALITY AS METERS PROVIDED UNDER THIS PROJECT.	
MR-IIC MR-IIA	XFMR-WA XFMR-IIC	XFMR-IIA XFMR-HHA	ES106 ES106	159 159	8 500 8 1500	A	D	480/277V / 3ø / 4W 480/277V / 3ø / 4W	<u> </u>	D8, N6, N11 D4, N2	N11. PROVIDE FRC—E STANDARD TRANSFORMER LABEL PER SPECIFICATIONS. THIS IS REQUIRED DUE TO THE EXISTING LABEL BEING INACCURATE OR DUE TO NO LABEL BEING PRESENT.	
MR-IIA 1R-HHA	XFMR-IIC XFMR-IIA	EOL	ES106 ES103	154	8 500	A	D D	480/277V / 3ø / 4W 480/277V / 3ø / 4W		D4, N2	N12. SWITCHBOARD AND ASSOCIATED METER INSTALLED RECENTLY UNDER SEPARATE CONTRACT. INTEGRATE METER (SQUARE D PM8000 SERIES) INTO THE EMCS TO ACHIEVE SAME FUNCTIONALITY AS METERS PROVIDED UNDER THIS CONTRACT.	TATION POWER
MR-LA	NAE-2	XFMR-LB	ES102	188	2 750	В		208/120V / 3ø / 4W		N10	N13. PROVIDE SBC AND CONNECT TO THE EXISTING EMCS N1 COMMUNICATIONS BUS. SEE SITE PLAN FOR CONTINUATION.	
MR-LB	XFMR-LA	STALL 1 ER	ES102	188	2 750	В	_	480/277V / 3ø / 4W		N10	N14. SWITCHBOARD AND ASSOCIATED METER INSTALLED PREVIOUSLY UNDER SEPARATE CONTRACT. INTEGRATE METER (SQUARE D CM4000 SERIES) INTO THE EMCS TO ACHIEVE SAME FUNCTIONALITY AS METERS PROVIDED UNDER THIS CONTRACT. PROVIDE NEW PATHWAY AND INTERCEPT TRUNK "A" COMMUNICATIONS BUS. SEE SITE PLAN FOR CONTINUATION.	PC PC
L 1 ER L 2 ER	XFMR-LB STALL 1 ER	STALL 2 ER	ES102 ES102	188 188	2 -	 В		480/277V / 3ø / 4W 480/277V / 3ø / 4W		N3 N3	N15. PROVIDE SET OF POTENTIAL TRANSFORMERS FOR METER.	AIR ST
	STALL 2 ER		ES102	188	2 –	B	_	480/277V / 3ø / 4W	400 TO 5	N3	N16. TRANSFORMER HAS 575V DELTA AND 575V WYE SERVICES. PROVIDE TWO METERS WITH ASSOCIATED SETS OF CURRENT TRANSFORMERS AND POTENTIAL TRANSFORMERS FOR EACH SERVICE. N17. INSTALL METERS IN WALL MOUNTED NEMA 1 ENCLOSURE, SIZE AS REQUIRED. REFER TO MOUNTING DETAIL A4 ON SHEET E-501.	၂ လ 🖵
	STALL 4 ER		ES102	188	2 –	В	_	480/277V / 3ø / 4W		N3	N18. SWITCHBOARD AND ASSOCIATED METER INSTALLED RECENTLY UNDER SEPARATE CONTRACT. INTEGRATE METER (SQUARE D PM800 SERIES) INTO THE EMCS TO ACHIEVE SAME FUNCTIONALITY	CORP REI
R-BBA			ES105	163	4 300	A		480/277V / 3ø / 4W		D2, N2, N20	AS METERS PROVIDED UNDER THIS CONTRACT.	
IR-CCA MR-NA	UNKNOWN	UNKNOWN UNKNOWN	ES105 ES102	4033 4188	4 225 5 750	А А		208/120V / 3ø / 4W 480/277V / 3ø / 4W		D2, N2, N20 D2, N2, N20	N19. SWITCHBOARD AND ASSOCIATED METER INSTALLED RECENTLY UNDER SEPARATE CONTRACT. INTEGRATE METER (SQUARE D PXM2000 SERIES) INTO THE EMCS TO ACHIEVE SAME FUNCTIONALITY AS METERS PROVIDED UNDER THIS CONTRACT.	MARI
MR-SA	UNKNOWN	UNKNOWN	ES103	1006	5 300	<u>A</u>	_	480/277V / 3ø / 4W	400 TO 5	D2, N2, N20	N20. ROUTING OF EXISTING N2 BUS FROM EXISTING METER TO ASSOCIATED NAE/NCE IS UNKNOWN. DOCUMENT EXISTING BUS ROUTING ON CONTRACTOR'S RED-LINED SET OF DRAWINGS AND SUBMIT	is.
MR-SB	UNKNOWN	UNKNOWN	ES103	CANS	5 150	A	_	208/120V / 3ø / 4W		D2, N2, N20	TO GOVERNMENT FOR REVIEW.	E: AS NOTED
IR-DDA IR-FFA	UNKNOWN	UNKNOWN	ES105 ES105	4032	7 1000 7 75	<u>А</u> А		480/277V / 3ø / 4W 208/120V / 3ø / 4W		D2, N2, N20 D2, N2, N20	A DEFED TO CHIEFTO E 704 E 707 AND E 707 FOR CVOTEN ADQUITECTURE COENADIOS	ECT NO.: X
IR-EEA	UNKNOWN	XFMR-GCA	ES105	4172	7 300	A		480V / 3ø / 3W	400 TO 5	D2, N2, N15, N20	2. CONTRACTOR SHALL VERIFY CT AND PT RATIOS PRIOR TO ORDERING EQUIPMENT.	686156
R-GCA	XFMR-EEA	XFMR-IWPD	ES105	4247	7 300	A	_	208/120V / 3ø / 4W		N2		1278291
$\sqrt{-1MLD}$	XFMR-GCA	EOL	ES105	4247	7 225	А		480/277V / 3ø / 4W	300 10 5	N2	SHEET	E-00

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