

NAVAL FACILITIES ENGINEERING COMMAND

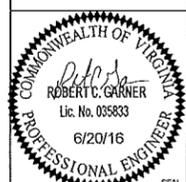
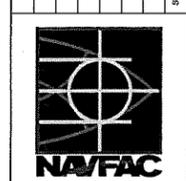
REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS

MARINE CORPS BASE QUANTICO QUANTICO, VA

FINAL SUBMITTAL

JUNE 20, 2016

REV	DESCRIPTION	DATE	APPR



BURNS & MEDONNELL
JOINT VENTURE
2850 EISENHOWER AVENUE
SUITE 200
ALEXANDRIA, VA 22314

APPROVED
[Signature]
PROJECT MANAGER
BASE ENVIRONMENTAL
CHIEF ENGINEER

DES: DRW: CHK: RVD:
PROJECT MANAGER: *[Signature]*
BASE ENVIRONMENTAL
CHIEF ENGINEER: *[Signature]*

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
MARINE CORPS BASE QUANTICO
MARINE CORPS BASE QUANTICO
REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS
COVER SHEET

SCALE: AS NOTED
EPROJECT NO.: X-XXX
CONSTR. CONTR. NO.: N40080-15-D-0452
NAVFAC DRAWING NO.: 3190206
SHEET 1 OF 34
G-101

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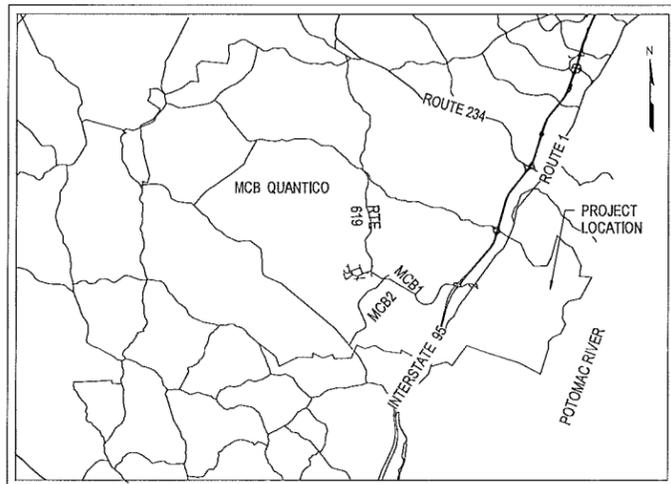
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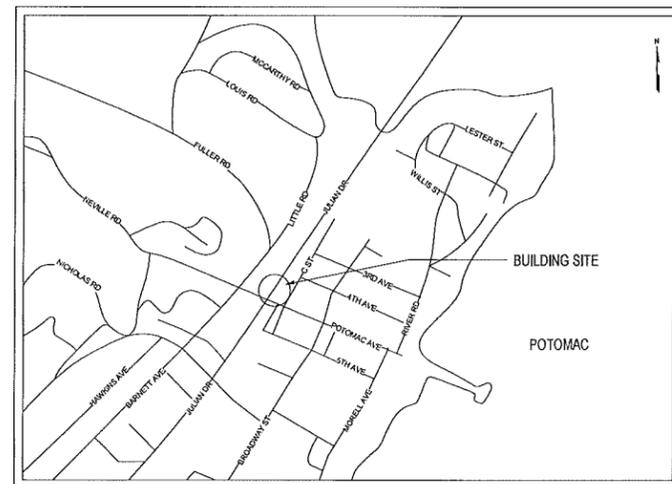
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LOCATION MAP
NTS

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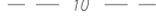
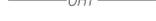


VICINITY MAP
NTS

SURVEY NOTES

1. THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF, BRIAN S HARVEY, LS FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON JANUARY 21, 2016 AND THAT THIS MAP DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
2. SURVEY CONDUCTED BY WILEY/WILSON, JANUARY 21, 2016. VERTICAL CONTROL: NAVD 88; HORIZONTAL CONTROL: NAD 83 VIRGINIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, U.S. SURVEY FOOT.
3. ALL EXISTING UNDERGROUND UTILITY LOCATIONS AS SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY NOT REPRESENT ALL UNDERGROUND UTILITIES OR SERVICE LINES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION, DEPTH, SIZE, AND TYPE OF UTILITIES SHOWN AND NOTIFYING ENGINEER OF DISCREPANCIES. CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE TO PROPERTY, UTILITIES, OR PHYSICAL IMPROVEMENTS.
4. CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 1-800-552-7001 PRIOR TO BEGINNING ANY EXCAVATION OR DEMOLITION IN ACCORDANCE WITH THE VIRGINIA UNDERGROUND UTILITY DAMAGE PREVENTION ACT.
5. PROPERTY LINE INFORMATION IS BASED ON CORRELATION OF FIELD MEASUREMENTS WITH INFORMATION FOUND IN VARIOUS PLATS AND DEEDS OF RECORD. NO BOUNDARY SURVEY WAS PERFORMED.
6. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS NOT INTENDED TO SHOW ALL EASEMENTS THAT MAY AFFECT THE PROPERTY.
7. ALL PROPERTY PINS DISTURBED BY CONTRACTOR ACTIVITIES SHALL BE REPLACED BY A VIRGINIA LICENSED LAND SURVEYOR.
8. THE EXISTENCE OF HAZARDOUS WASTE, VEGETATED WETLANDS, OR TIDAL WETLANDS WAS NEITHER INVESTIGATED NOR CONFIRMED DURING THE PERFORMANCE OF THIS SURVEY.

SURVEY LEGEND

	BENCHMARK		CENTERLINE OF CREEK
	CONTROL POINT - NAIL SET		EDGE OF PAVEMENT
	DOWNSPOUT		FENCELINE
	GUY WIRE		TREELINE
	FIRE HYDRANT		MAJOR CONTOURS
	WATER VALVE		MINOR CONTOURS
	SIAMESE CONNECTION		OVERHEAD TELEPHONE
	COMMUNICATIONS MANHOLE		UNDERGROUND ELECTRIC
	TELEPHONE POLE		UNDERGROUND STORM
	GAS METER		CONCRETE
	SIGN		
	BOLLARD		
	LADDER		
	TREE		
	BUSH		

PROJECT NOTES

1. THIS PROJECT INCLUDES CONCRETE PAVING, A RETAINING WALL, CURBING, FENCING, AND PAVEMENT STRIPING FOR A NEW DOCK MANEUVERING AREA ON THE NORTH SIDE OF BUILDING 1001 AT QUANTICO, VA. THE PROJECT ALSO INCLUDES REMOVAL AND RELOCATION OF A FIRE HYDRANT AND GATE VALVE. DEMOLITION OF THE ITEMS NECESSARY FOR CONSTRUCTION IS INCLUDED.
2. THE PROJECT DISTURBANCE IS LESS THAN 5,000 SQUARE FEET. AN EROSION AND SEDIMENT CONTROL PLAN IS NOT REQUIRED, HOWEVER, THE CONTRACTOR MUST TAKE PRECAUTIONS NOT TO TRACK DEBRIS FROM THE JOB SITE ONTO THE LOCAL ROADWAYS. INLET PROTECTION IS REQUIRED ON THE SITE AS WELL AS SOIL STABILIZATION BY TOPSOILING, SEEDING, AND MULCHING. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS NOT REQUIRED.
3. PROVIDE TREE PROTECTION FOR THE EXISTING 48-INCH WILLOW OAK. IT IS ACKNOWLEDGED THAT THE TREE ROOTS MAY BE DAMAGED BY THE INSTALLATION OF THE WATER LINE.
4. DIMENSIONS SHOWN ON THE PLANS ARE TO THE FACE OF CURB OR FACE OF WALL.
5. LOCATION/RELOCATION OF THE GAS LINE MUST BE COORDINATED WITH THE GAS COMPANY.
6. COORDINATE RELOCATION OF THE FIRE HYDRANT WITH QUANTICO PUBLIC WORKS. ALL JOINTS MUST BE RESTRAINED. PROVIDE A MINIMUM COVER OVER THE WATER LINE OF 2'-6". QUANTICO PUBLIC WORKS WILL VERIFY OPERATION OF THE ISOLATION VALVE AT THE STREET PRIOR TO CONSTRUCTION.

NO.	DESCRIPTION	REVISION SCHEDULE	DATE	APPR.	
  					
APPROVED					
FOR COMMANDER NAVFAC					
ACTIVITY					
SATISFACTORY TO DATE					
DES	MPM	DRW	MPM	CHK	HAI
PMDM					
BRANCH MANAGER					
CHIEF ENSARCH					
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON QUANTICO, VA MARINE CORPS BASE QUANTICO QUANTICO, VA REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS NOTES AND LEGEND					
SCALE: AS NOTED					
EPROJCT NO.: X-XXX					
CONST. CONTR. NO. N40080-15-D-0452					
NAVFAC DRAWING NO. 3190207					
SHEET 2 OF 34					
C-001					

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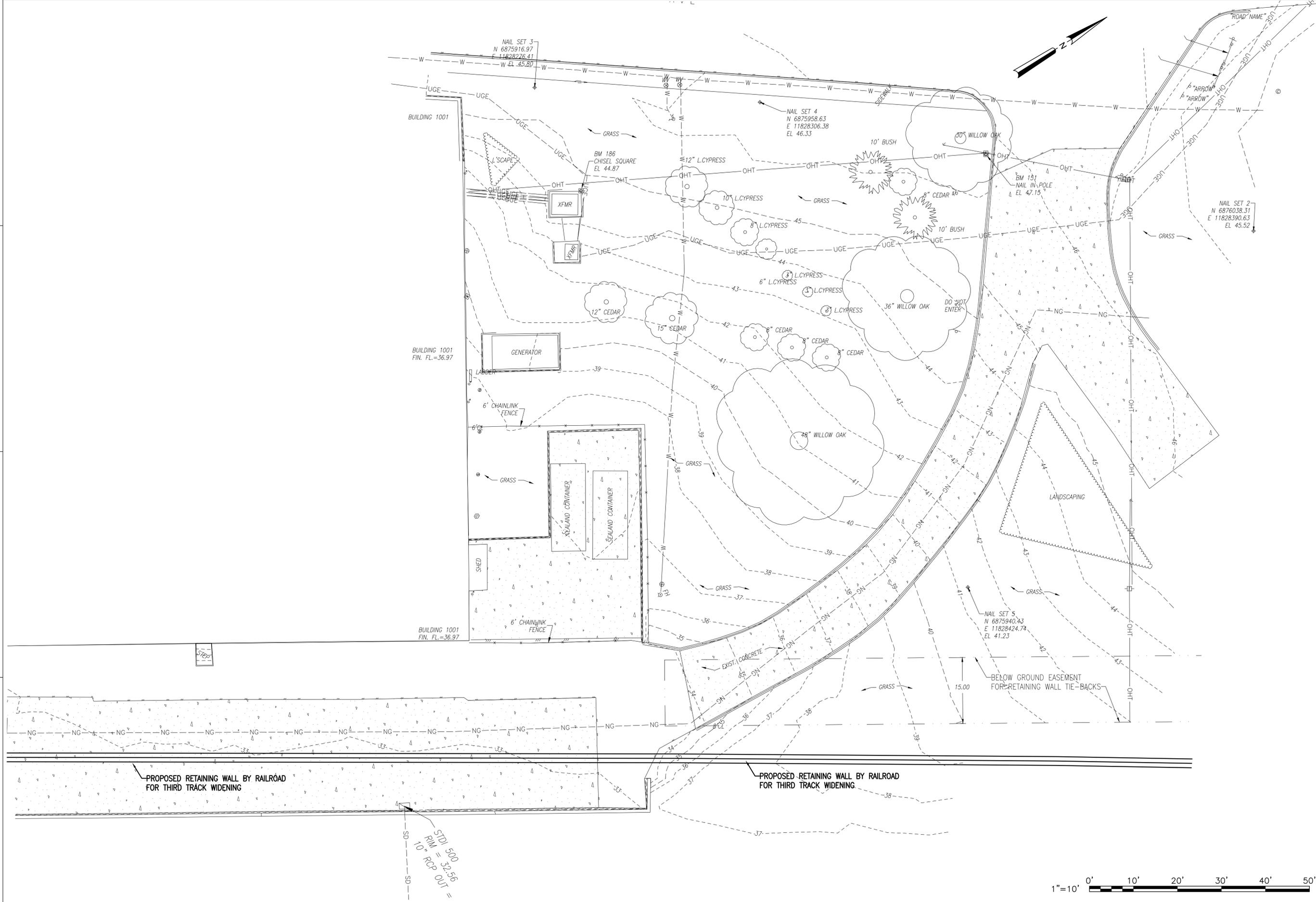
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NO.	DESCRIPTION	REVISION	SCHEDULE	DATE	APPR.



NAVFAC



Michael P. Muron
Lic. No. 029525
6/20/16
PROFESSIONAL ENGINEER



WileyWilson | Burns McDonnell
JOINT VENTURE

APPROVED

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ACTIVITY

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PM/DM

BRANCH MANAGER

CHIEF ENGINEER

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
WASHINGTON QUANTICO, VA

MARINE CORPS BASE QUANTICO, VA

REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS

SITE SURVEY PLAN

SCALE: AS NOTED

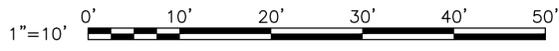
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CONST. CONTR. NO. N40080-15-D-0452

NAVFAC DRAWING NO. 3190208

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BASELINE TANGENT DATA

LINE #	LENGTH	BEARING	START POINT (N,E)	END POINT (N,E)
L1	39.96'	N31° 38' 06.01"E	6875845.8827, 11828376.3474	6875879.9047, 11828397.3065
L2	73.05'	N53° 10' 23.05"W	6875980.6013, 11828378.1540	6876024.3864, 11828319.6827

BASELINE CURVE ALIGNMENT DATA

CURVE #	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD DIRECTION	START POINT	END POINT
C1	76.00	112.49	102.50	N10° 46' 08.52"W	(11828397.3065, 6875879.9047)	(11828378.1540, 6875980.6013)

RETAINING WALL ALIGNMENT TANGENT DATA

LINE #	LENGTH	BEARING	START POINT (N,E)	END POINT (N,E)
L3	32.92'	N31° 37' 32.10"E	6875884.4450, 11828374.4624	6875912.4774, 11828391.7253
L4	2.61'	N27° 56' 25.69"W	6875952.1942, 11828393.0030	6875954.5009, 11828391.7795

RETAINING WALL CURVE ALIGNMENT DATA

CURVE #	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD DIRECTION	START POINT	END POINT
C2	40.00	41.58	39.74	N01° 50' 33.20"E	(11828391.7253, 6875912.4774)	(11828393.0030, 6875952.1942)

CURB LINE TANGENT DATA

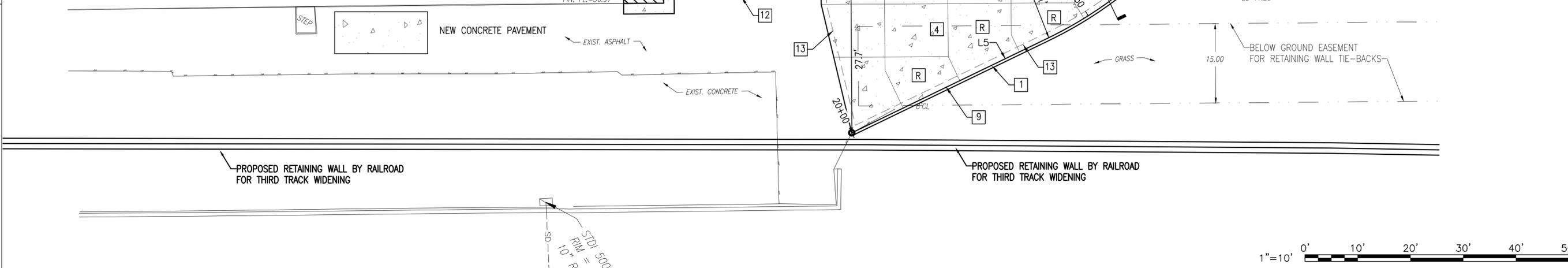
LINE #	LENGTH	BEARING	START POINT (N,E)	END POINT (N,E)
L5	41.43'	N6° 17' 05.33"E	6875861.5706, 11828418.5802	6875902.7496, 11828423.1153
L6	0.71'	N41° 00' 29.70"W	6875960.1725, 11828405.1622	6875960.7093, 11828404.6955

CURB LINE CURVE ALIGNMENT DATA

CURVE #	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD DIRECTION	START POINT	END POINT
C3	75.00	61.91	60.16	N17° 21' 42.18"W	(11828423.1153, 6875902.7496)	(11828405.1622, 6875960.1725)

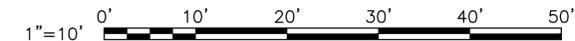
LEGEND

- 1 VDOT STANDARD CG-2 CURB (D5 C-501)
- 2 SEGMENTAL CONCRETE BLOCK RETAINING WALL
- 3 BUILDING 1001 DOCK, REFER TO ARCHITECTURAL DRAWINGS
- 4 CONCRETE PAVEMENT
- 5 CONSTRUCTION BASELINE AND PROFILE GRADE LINE
- 6 RELOCATED FIRE HYDRANT AND GATE VALVE
- 7 CONCRETE CONTROL JOINTS (B5 C-201)
- 8 RETAINING WALL BASELINE (FACE OF WALL @ PAVEMENT ELEV.)
- 9 CURB LINE ALIGNMENT BASELINE (FACE OF CURB)
- 10 CONCRETE PATCH FOR DOCK/STAIR INSTALLATION
- 11 NEW DOCK AND STAIRS (REFER TO A-101, A-301 AND A-302)
- 12 4" WHITE PAVEMENT STRIPING, 12' WIDE, 40 FEET LONG
- 13 DASHED LINE DEPICTS THICKENED SLAB (B3 C-201)
- 14 4' HIGH CHAIN LINK FENCE (50 L.F.)
- R CONCRETE SHAPES REINFORCED WITH 4X4 W2/W2 WELDED WIRE FABRIC PLACED AT MID-DEPTH



PROPOSED RETAINING WALL BY RAILROAD FOR THIRD TRACK WIDENING

PROPOSED RETAINING WALL BY RAILROAD FOR THIRD TRACK WIDENING



BARNETT AVE

AND IRREGULAR WARFARE AND INTEGRATION DIVISION, LITTLE USMC COLLEGE OF DISTANCE EDUCATION AND TRAINING

NO.	DESCRIPTION	DATE	APPR.



WileyWilson | BURNS & MCDONNELL
JOINT VENTURE

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FOR COMMANDER NAVFAC ACTIVITY

SATISFACTORY TO DATE

DES MPM DRW MPM CHK HAI

PM/DM

BRANCH MANAGER

CHIEF ENGINEER

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON QUANTICO, VA

MARINE CORPS BASE QUANTICO QUANTICO, VA

REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS

SITE LAYOUT PLAN

SCALE: AS NOTED

EPROJCT NO.: X-XXX

CONST. CONTR. NO. N40080-15-D-0452

NAVFAC DRAWING NO. 3190210

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C-103

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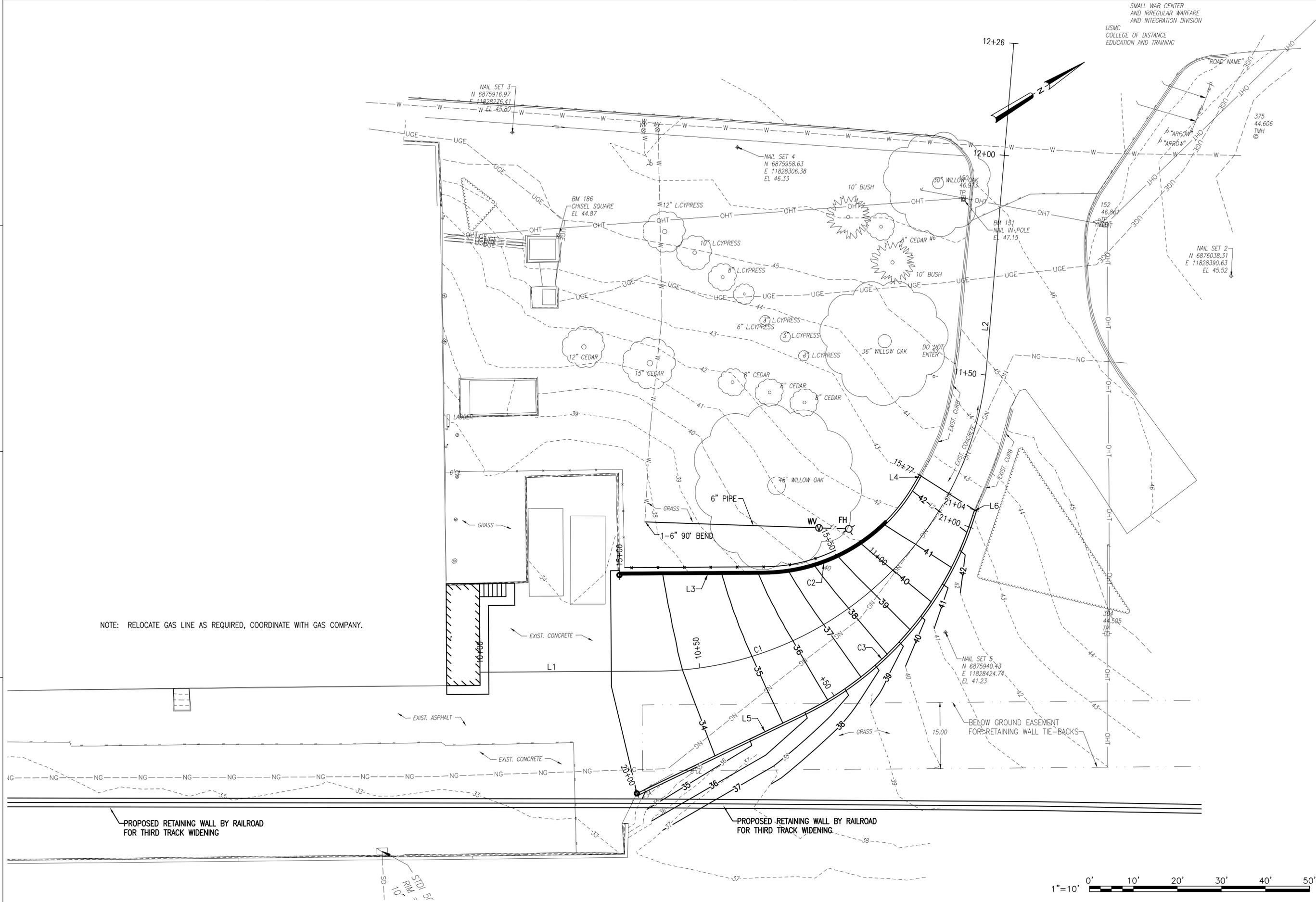
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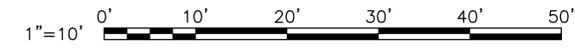
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NOTE: RELOCATE GAS LINE AS REQUIRED, COORDINATE WITH GAS COMPANY.



SMALL WAR CENTER
AND IRREGULAR WARFARE
AND INTEGRATION DIVISION
USMC
COLLEGE OF DISTANCE
EDUCATION AND TRAINING

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DES MPM DRW MPM CHK HAI

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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
WASHINGTON

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
QUANTICO, VA

MARINE CORPS BASE QUANTICO
QUANTICO, VA

REPAIR BUILDING 1001 AND INTERIOR
IMPROVEMENTS FOR DAPS

SITE GRADING PLAN

SCALE: AS NOTED

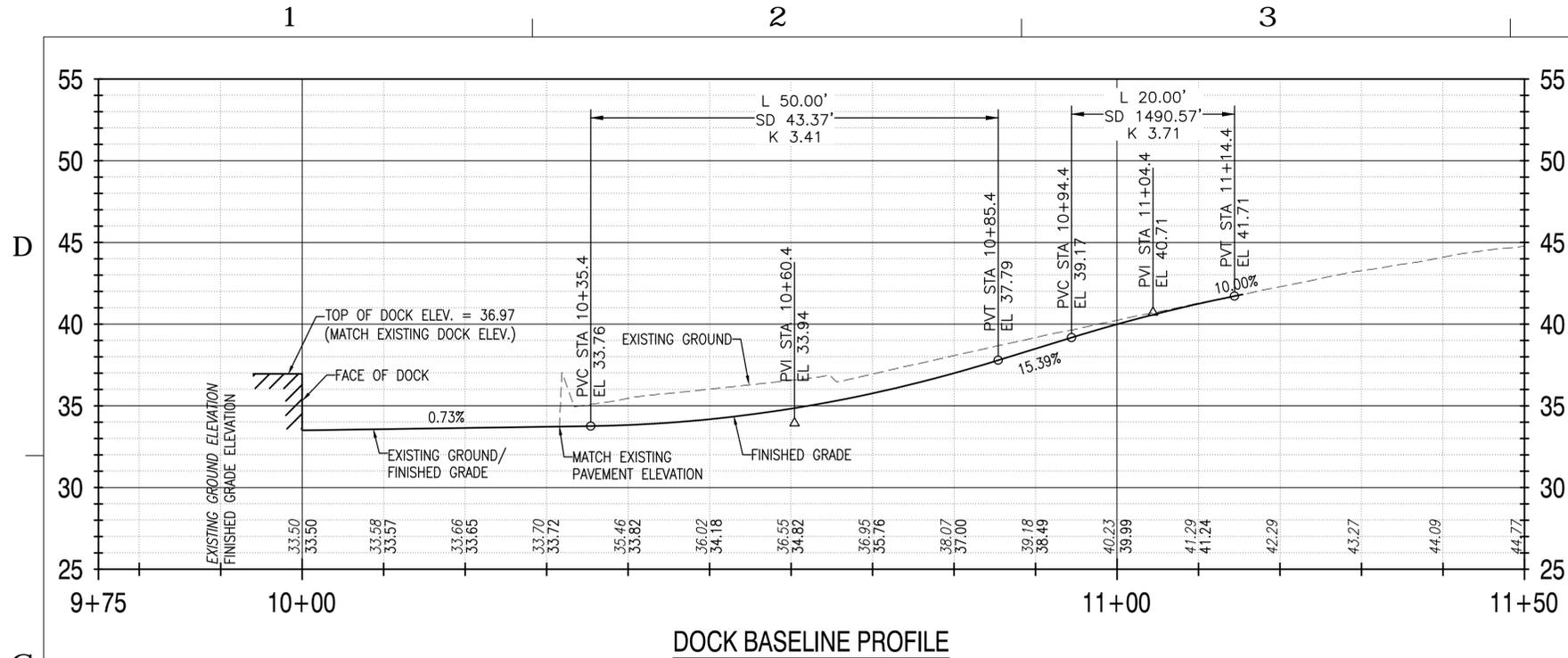
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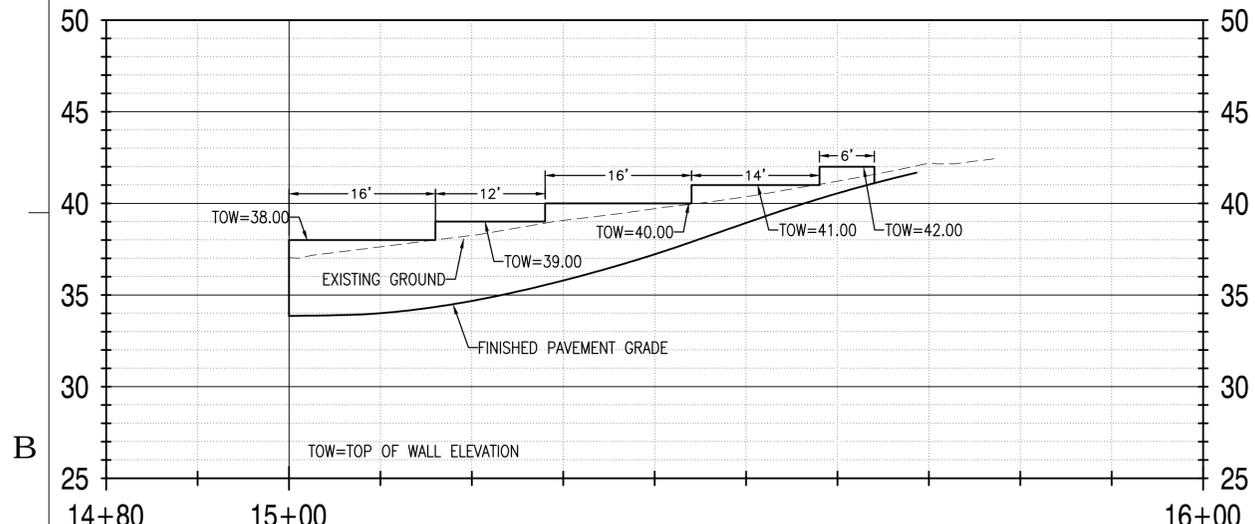
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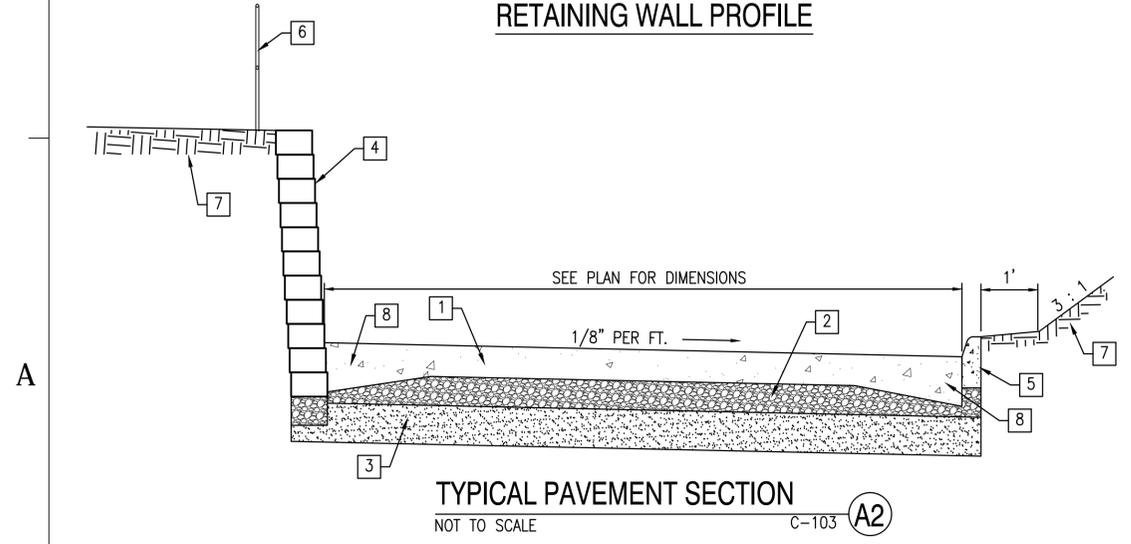
C-104



DOCK BASELINE PROFILE

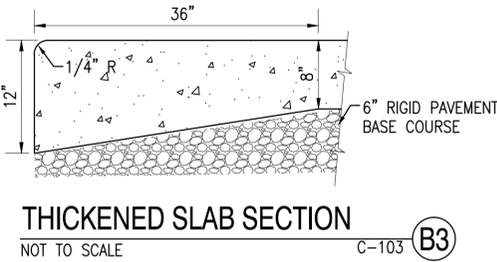


RETAINING WALL PROFILE

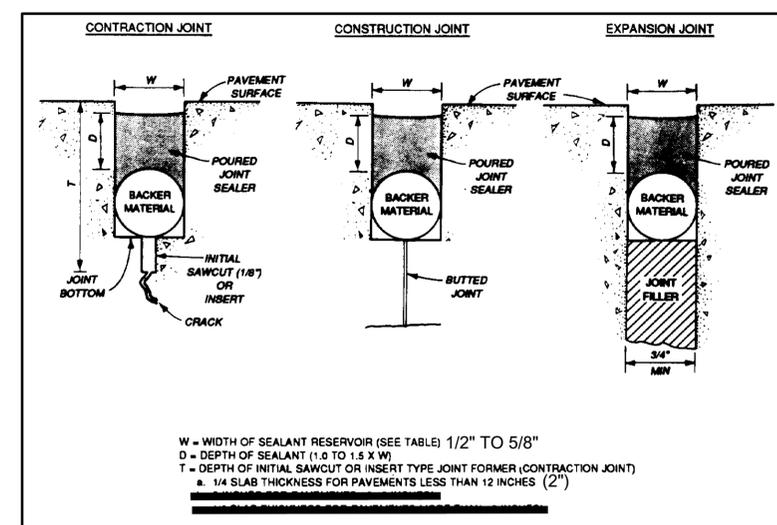


TYPICAL PAVEMENT SECTION
NOT TO SCALE C-103 (A2)

- LEGEND**
- 1 8" PLAIN CONCRETE PAVEMENT
 - 2 6" RIGID PAVEMENT BASE COURSE
 - 3 SUBGRADE COMPACTED TO 95%
 - 4 SEGMENTAL CONCRETE BLOCK RETAINING WALL
 - 5 VDOT STANDARD CG-2 CONCRETE CURB
 - 6 48" HANDRAIL OR CHAIN LINK FENCE
 - 7 4" TOPSOIL, SEED, AND MULCH
 - 8 THICKENED SLAB



THICKENED SLAB SECTION
NOT TO SCALE C-103 (B3)



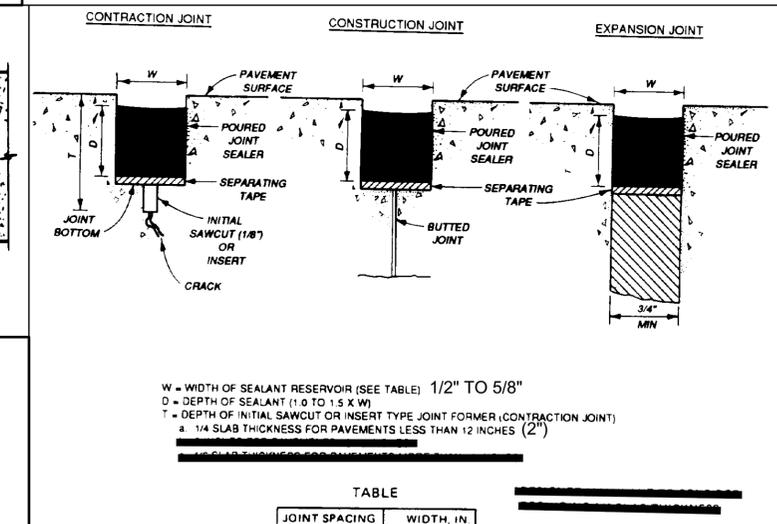
W = WIDTH OF SEALANT RESERVOIR (SEE TABLE) 1/2" TO 5/8"
 D = DEPTH OF SEALANT (1.0 TO 1.5 X W)
 T = DEPTH OF INITIAL SAWCUT OR INSERT TYPE JOINT FORMER (CONTRACTION JOINT)
 a 1/4 SLAB THICKNESS FOR PAVEMENTS LESS THAN 12 INCHES (2")

TABLE

JOINT SPACING FT	WIDTH, IN.	
	MIN	MAX
< 25	1/2	5/8

NOTE TOP OF SEALANT WILL BE 1/8-IN. TO 1/4-IN. BELOW TOP OF PAVEMENT

Figure 15-7. Joint Sealant Details. (C-103) (B4)



W = WIDTH OF SEALANT RESERVOIR (SEE TABLE) 1/2" TO 5/8"
 D = DEPTH OF SEALANT (1.0 TO 1.5 X W)
 T = DEPTH OF INITIAL SAWCUT OR INSERT TYPE JOINT FORMER (CONTRACTION JOINT)
 a 1/4 SLAB THICKNESS FOR PAVEMENTS LESS THAN 12 INCHES (2")

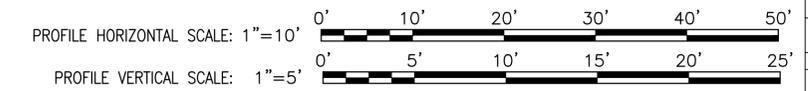
TABLE

JOINT SPACING FT	WIDTH, IN.	
	MIN	MAX
< 25	1/2	5/8

NOTE TOP OF SEALANT WILL BE 1/8-IN. TO 1/4-IN. BELOW TOP OF PAVEMENT

Figure 15-7. Joint Sealant Details. (C-103) (B5)

CONCRETE PAVEMENT JOINT DETAILS
NOT TO SCALE C-103 (B5)



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IMPROVEMENTS FOR DAPS

PROFILES AND SECTIONS

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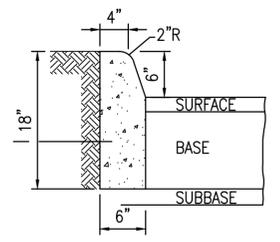
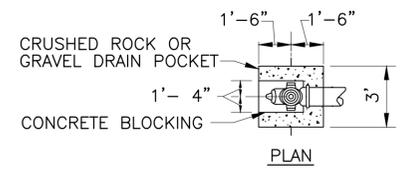
NAVFAC DRAWING NO.: 3190212

SHEET 7 OF 34

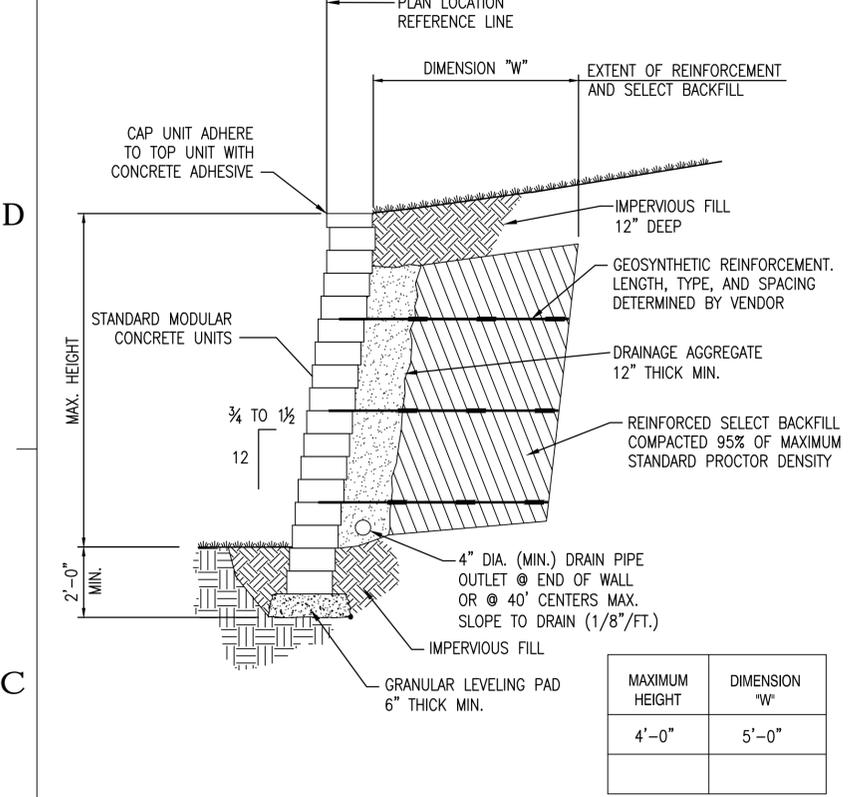
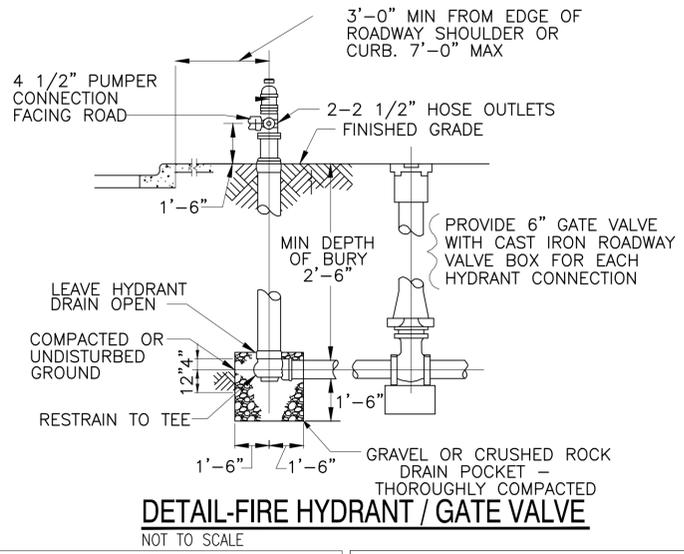
C-201

SEGMENTAL CONCRETE BLOCK RETAINING WALL NOTES

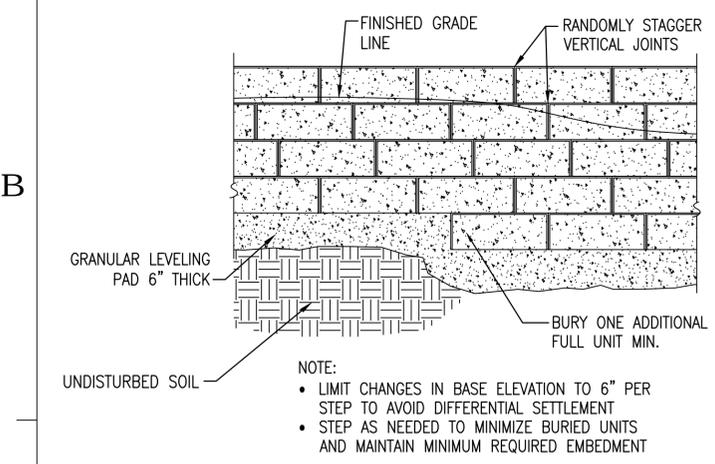
- DESIGN AND INSTALL SEGMENTAL CONCRETE BLOCK RETAINING WALLS ACCORDING TO THE PROJECT DRAWINGS AND SPECIFICATIONS. THIS INCLUDES SITE PREPARATION, CONCRETE BLOCKS, REINFORCEMENT, WALL CAPS, GEOTEXTILE FILTER MATERIAL, SELECT BACKFILL, DRAINAGE PROVISIONS AND OTHER ITEMS NEEDED FOR A COMPLETE INSTALLATION.
- GLOBAL STABILITY AND BEARING PRESSURES HAVE BEEN DETERMINED TO BE ACCEPTABLE FOR THE DIMENSIONS OF THE REINFORCED SELECT BACKFILL INDICATED ON THIS DRAWING. PROVIDE A ZONE OF REINFORCED SELECT BACKFILL HAVING THE INDICATED DIMENSIONS AS A MINIMUM.
- PROVIDE SHOP DRAWINGS AND PRODUCT INFORMATION CALLED FOR IN THE PROJECT SPECIFICATION.
- PROVIDE CALCULATIONS DEMONSTRATING THE CAPABILITY OF THE REINFORCING AND ITS CONNECTIONS, TOGETHER WITH THE SELECT BACKFILL PROPOSED TO BE USED, TO SUSTAIN THE EARTH PRESSURE LOADING. CONFIRM WALL STABILITY. REFER TO THE SPECIFICATIONS AND THE GEOTECHNICAL REPORT FOR SOIL AND LOADING PARAMETERS. ALLOWABLE SOIL BEARING PRESSURE IS 3.0 KSF AT THE TOE OF THE WALL.
- CONCRETE BLOCKS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- CONCRETE BLOCKS SHALL BE SINGLE-SURFACE FACE, VENDOR'S STANDARD TEXTURE, COLOR: TAN.
- REINFORCEMENT SHALL BE EITHER GEOGRID OR GEOTEXTILE OF CORROSION AND WEATHER RESISTANT MATERIAL PER THE PROJECT SPECIFICATION.
- WALLS SHALL BE FOUNDED ON ORIGINAL GROUND OR COMPACTED (95%) FILL. REMOVE EXISTING FILL FOUND BENEATH THE WALLS AND REINFORCED BACKFILL AND BACKFILL TO WALL SUBGRADE WITH APPROVED MATERIAL.
- SELECT BACKFILL AND DRAINAGE MATERIAL TO BE REINFORCED SHALL HAVE THE CHARACTERISTICS SUITABLE FOR THE VENDOR'S INSTALLATION. SUCH BACKFILL SHALL MEET THE REQUIREMENTS OF THE SPECIFICATION AS A MINIMUM.



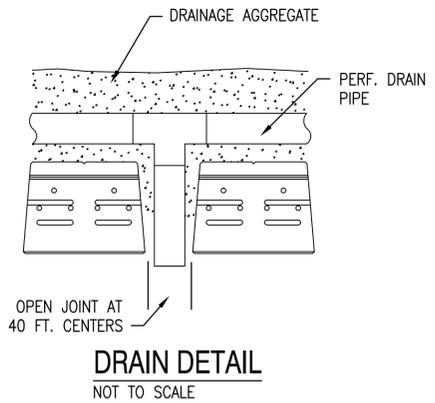
CONCRETE TO BE CLASS A3 (3,000 PSI)
VDOT STANDARD CG-2 CURB
 NOT TO SCALE C-103 **D5**



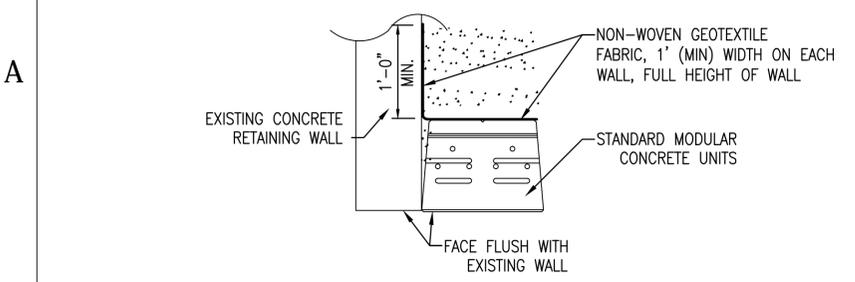
TYPICAL SECTION-SEGMENTAL CONCRETE BLOCK RETAINING WALL
 NOT TO SCALE C-103 **D1**



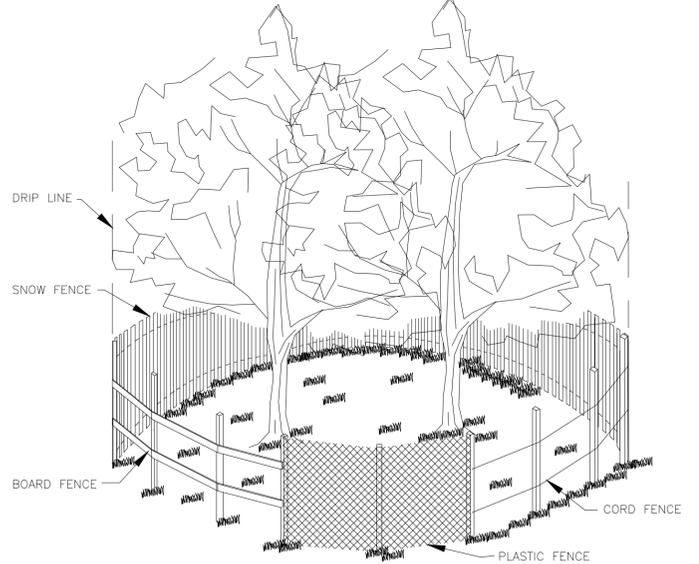
STEPPING BASE DETAIL
 NOT TO SCALE



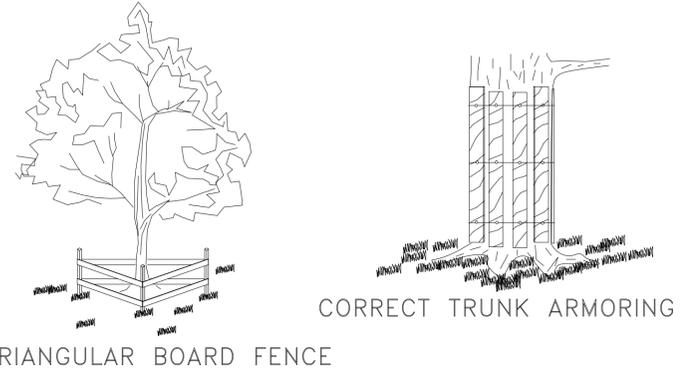
DRAIN DETAIL
 NOT TO SCALE



FENCING AND ARMORING



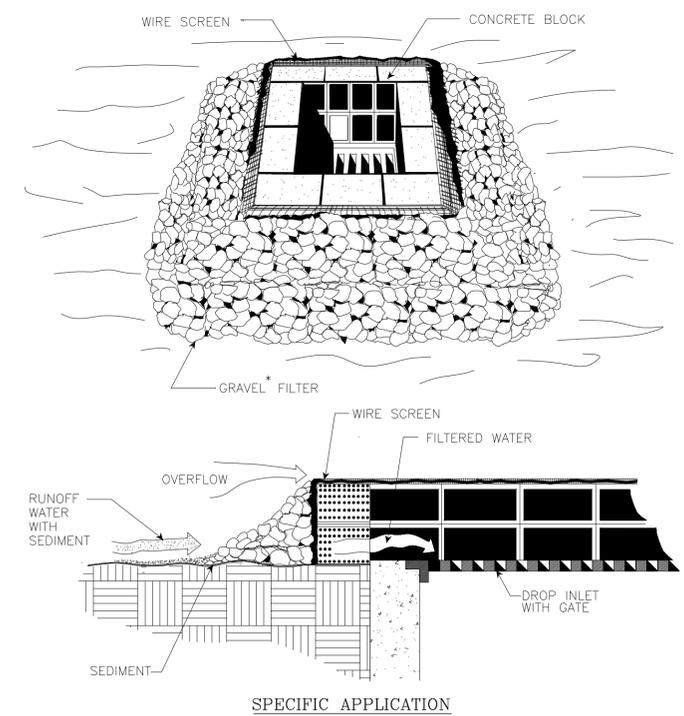
CORRECT METHODS OF TREE FENCING



CORRECT TRUNK ARMORING

Source: Va. DSCW

BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

SOURCE: VA. DSCW

PLATE. 3.07-3

NO.	DESCRIPTION	REVISION SCHEDULE	DATE	APPR.

WileyWilson | BURNS & MCDONNELL
 JOINT VENTURE

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES: MPM DRW: MPM CHK: HAI

PM/DM

BRANCH MANAGER

CHIEF ENGINEER

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
 QUANTICO, VA
 MARINE CORPS BASE QUANTICO
 QUANTICO, VA

REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS

DETAILS

SCALE: AS NOTED

EPROJECT NO.: X-XXX

CONST. CONTR. NO.: N40080-15-D-0452

NAVFAC DRAWING NO.: 3190213

SHEET 8 OF 34

C-501

CALL OUT IDENTIFICATION

SECTION, DETAIL, AND ELEVATION SYMBOL IDENTIFIERS:

LETTER AND NUMBER DESIGNATOR FOR GRID COORDINATE

ONE OR TWO CHARACTER DISCIPLINE DESIGNATOR (MAY NOT BE PRESENT IF CALLOUT AND TITLE ARE ON DRAWINGS WITHIN THE SAME DISCIPLINE)

DRAWING SEQUENCE NUMBER INDICATES WHERE TITLE IS LOCATED (MAY NOT BE PRESENT IF CALLOUT AND TITLE ARE ON THE SAME DRAWING)

SECTION CALLOUT EXAMPLE:

DETAIL CALLOUT EXAMPLE:

ELEVATION CALLOUT EXAMPLE:

PLAN TITLE EXAMPLE:

PLAN NORTH

VIEW NAME

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

SECTION, DETAIL, AND ELEVATION TITLE EXAMPLE:

VIEW NAME

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

VIEW NAME

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

NORTH ARROW EXAMPLE:

GRAPHIC SCALE EXAMPLE:

GRAPHIC SCALE:

1/8" = 1'-0"

VIEW AND PHOTO REFERENCE

VIEW NO. #

CAMERA DIRECTION

PLAN LEGEND

PLAN LEGEND:

EXISTING DOOR

NEW DOOR

EXISTING WALL

NEW WALL (RE: PARTITION TYPE)

ROOM NAME - ROOM NAME

101 - ROOM NUMBER

1i - PARTITION TYPE

888W - DOOR NUMBER

W - WINDOW WALL TYPE

CW - CURTAIN WALL TYPE

00 - GLAZING TYPE

L1 - LOUVER TAG

1 - GRID BUBBLE AND LINE

T1 - TOILET ACCESSORY TAG

W101 - FURNITURE SYSTEM TAG

1'-0" A.F.F. - CEILING HEIGHT TAG

DEMOLITION/EXISTING PLAN LEGEND

EXISTING DOOR

DOOR TO BE REMOVED

EXISTING WALL

WALL TO BE REMOVED

AREA OF DEMOLITION

MATERIAL SYMBOLS

UNDISTURBED EARTH

COMPACTED FILL

GRAVEL

GRASS

FACE BRICK

MASONRY

CONCRETE MASONRY UNIT

CONCRETE

TERRAZZO

RIGID INSULATION

PLYWOOD

GROUT OR GYPSUM BOARD

SAND, PLASTER, OR PORTLAND CEMENT

STEEL OR FERROUS METALS

ALUMINUM OR NON-FERROUS METALS

FINISHED WOOD

PARTICLE BOARD

GLUED-LAMINATED WOOD

PLASTIC LAMINATE

BATT INSULATION

METAL STUD WALL

BACKER ROD AND SEALANT

DIMENSION LUMBER

ABBREVIATIONS SEE ADDITIONAL FINISH MATERIAL ABBREVIATIONS IN THE MATERIAL LEGEND, DRAWING AXXX

A/E ARCHITECT/ENGINEER	JAN JANITOR'S CLOSET
ACOUST ACOUSTICAL	-L- LEFT, LONG, LENGTH
ADJ ADJACENT, ADJUSTABLE	LAB LABORATORY
AFF ABOVE FINISH FLOOR	LAT LATITUDE
AHJ AUTHORITY HAVING JURISDICTION	LAV LAVATORY
ALT ALTERNATE	LB or # POUND
ALUM ALUMINUM	LH LEFT HAND
APPROX APPROXIMATE	LONG LONGITUDE
ARCH ARCHITECTURE, ARCHITECT	LVR LOUVER
-B- BOARD	M METER
BD BITUMENOUS	MACH MACHINE
BLDG BUILDING	MAINT MAINTENANCE
BLKG BLOCKING	MAS MASONRY
BO BOTTOM OF, AS IN "BO STEEL" BETWEEN	MAX MAXIMUM
CAB CABINET	MECH MECHANICAL
CCTV CLOSED CIRCUIT TELEVISION	MFR MANUFACTURER
CID COMPREHENSIVE INTERIOR DESIGN	MIN MINIMUM
CJ CONTROL JOINT, CONSTRUCTION JOINT	MISC MISCELLANEOUS
CL CENTER LINE	MM MILLIMETER
CLG CEILING	MO MASONRY OPENING
CLR CLEAR	MTD MOUNTED
CMU CONCRETE MASONRY UNIT	MTL METAL
CO CLEANOUT	-N- NORTH
COL COLUMN	NIA NOT APPLICABLE
COMM COMMUNICATION	NIC NOT IN CONTRACT
CONC CONCRETE	NO NUMBER
CONSTR CONSTRUCTION	NOM NOMINAL
CONT CONTINUOUS	NTP NOTICE TO PROCEED
CONTR CONTRACT, CONTRACTOR	NTS NOT TO SCALE
COORD COORDINATE	-O- ON CENTER
CORR CORRUGATED OR CORRIDOR	OD OUTSIDE DIAMETER
CU CUBIC	OFF OFFICE
°C CELSIUS	OPNG OPENING
DBL DOUBLE	OPP OPPOSITE
DEMO DEMOLITION	-P- PUBLIC ADDRESS
DESCR DESCRIPTION	PERIM PERIMETER
DET DETAIL	PKG PACKAGE
DIA DIAMETER	PL PLATE
DIAG DIAGONAL	PLMB PLUMBING
DIM DIMENSION	PLYWD PLYWOOD
DN DOWN	PROJ PROJECT
DR DOOR	PSF POUNDS PER SQUARE FOOT
DS DOWNSPOUT	PSI POUNDS PER SQUARE INCH
DWG DRAWING	R RADIUS
E EAST	RIA RETURN AIR
EA EACH	RCP REFLECTIVE CEILING PLAN
EA/EW EMERGENCY EYEWASH	RD ROOF DRAIN
EA/WS EMERGENCY EYEWASH & SHOWER	RECP RECEPTACLE
EF EXHAUST FAN	REFER REFERENCE
EJ EXPANSION JOINT	REINF REINFORCED
EL ELEVATION, AS IN HEIGHT	REQD REQUIRED
ELAST ELASTOMERIC	REV REVISION
ELEC ELECTRIC / ELECTRICAL	RO ROUGH OPENING
ELEV ELEVATOR, OR ELEVATION AS IN NORTH ELEV	S SOUTH
EQ EQUAL	SIA SUPPLY AIR
EQUIP EQUIPMENT	SCHED SCHEDULE
ETC AND SO FORTH (ETCETERA)	SECT SECTION
EW EACH WAY	SF SQUARE FOOT
EWC ELECTRIC WATER COOLER	SIM SIMILAR
EXH EXHAUST	SPEC SPECIFICATION
EXIST EXISTING	SQ SQUARE, AS IN "SQ FT"
EXP EXPANSION	STC SOUND TRANSMISSION COEFFICIENT
EXT EXTERIOR	STD STANDARD
-F- FLOOR DRAIN	STOR STORAGE
FD FOUNDATION	STRUCT STRUCTURAL
FE FIRE EXTINGUISHER WITH WALL BRACKET	SUPP SUPPORT
FEC FIRE EXTINGUISHER CABINET	SUSP SUSPENDED
FF FINISH FLOOR	SYS SYSTEM
FF&E FURNITURE, FIXTURES & EQUIPMENT	-T- TRENCH DRAIN
FHC FIRE HOSE CABINET (WITH EXTINGUISHER & BRACKET)	TECH TECHNICAL
FHR FIRE HOSE REEL (WITH EXTINGUISHER & BRACKET)	THRU THROUGH
FIN FINISHED, FINISH	TO TOP OF, AS IN "TO STEEL"
FLR FLOOR	TYP TYPICAL
FT FEET / FOOT	-U- UNDERWRITERS LABORATORY
°F FAHRENHEIT	UNO UNLESS NOTED OTHERWISE
-G- GAUGE	UTIL UTILITY
GALV GALVANIZED	-V- VENTILATE, VENTILATOR
GL GIRT LINE	VERT VERTICAL
GRTG GRATING	VOL VOLUME
GYP GYPSUM	-W- WEST, WIDTH
GYP BD GYPSUM BOARD	WI WITH
H HIGH	WIO WITHOUT
HD HAND	WC WATER CLOSET
HDWR HARDWARE	WD WOOD
HM HOLLOW METAL	WH WATER HEATER
HORIZ HORIZONTAL	WT WEIGHT
HT HEIGHT	
HVAC HEATING, VENTILATION & AIR CONDITIONING	
I INSIDE DIAMETER	
IN INCH	
INSUL INSULATION	
INT INTERIOR	

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AS LISTED OR REFERENCED ON DRAWINGS OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR SHALL INCLUDE ALL WORK REQUIRED TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AS LISTED OR REFERENCED ON LIFE SAFETY PLAN AND LIFE SAFETY CRITERIA OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS. LARGE SCALE DETAILS OR PLANS SHALL GOVERN OVER SMALL SCALE DETAILS OR PLANS. DO NOT SCALE DRAWINGS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MANUFACTURER'S RECOMMENDED MAINTENANCE PROCEDURES AND SCHEDULES.
- ANY MANUFACTURER'S OR BRAND NAME PRODUCTS INDICATED OR SPECIFIED ARE DONE SO TO ESTABLISH A MINIMUM LEVEL OF QUALITY. OTHER MANUFACTURERS ARE ACCEPTABLE UPON SUBMITTAL REVIEW AND APPROVAL.
- ALL CONSTRUCTION SHALL MEET OR EXCEED LOCAL INDUSTRY STANDARDS. DETAILS ARE PROVIDED TO INDICATE MINIMUM QUALITY AND TO GIVE STANDARDS OF CONSTRUCTION. IF A CONDITION IS NOT SPECIFICALLY DETAILED, SUBMIT A SIMILAR DETAIL FOR GUIDE AND APPROVAL.
- THE LETTERS I, O, AND Q ARE NOT USED TO INDICATE DETAILS, SECTIONS OR ELEVATIONS.
- PROVIDE PRESERVATIVE-TREATED WOOD AT ALL LOCATIONS WHERE WOOD IS IN DIRECT CONTACT WITH CONCRETE OR MASONRY, INCLUDING BLOCKING FOR ROOFING.
- PROVIDE WATER-RESISTANT GYPSUM BOARD AT ALL WET OR UNCONDITIONED AREAS INCLUDING, BUT NOT LIMITED TO, PARTITIONS, BEHIND SINKS. CONTRACTOR TO INSURE THAT FIRE RATING IS MAINTAINED.
- PAINT, STAIN, OR COAT ALL EXPOSED SURFACES OF CONSTRUCTION UNLESS NOTED OTHERWISE OR IF SURFACES ARE PRE-FINISHED.
- ALL CONDUITS, PLUMBING, PIPING, DUCTWORK, AND OTHER EQUIPMENT EXPOSED TO VIEW SHALL BE LOCATED PARALLEL OR PERPENDICULAR TO THE STRUCTURAL FRAMING SYSTEM.
- PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR MATERIALS, WHERE REQUIRED.
- ARCHITECTURAL DETAILS ARE APPLICABLE WHERE INDICATED BY SECTION CUT, BY NOTE, OR BY DETAIL TITLE. INCORPORATE SIMILAR DETAILS AT SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR MAY REQUEST A CLARIFICATION IF REQUIRED, OTHERWISE THE MORE STRINGENT REQUIREMENTS SHALL CONTROL.
- SEAL ALL EXTERIOR BUILDING JOINTS AT BOTH THE EXTERIOR AND INTERIOR SURFACES AGAINST MOISTURE AND AIR INFILTRATION.
- SEAL AROUND ALL DOOR AND WINDOW FRAMES.
- THE CONTRACTOR SHALL REVIEW THE DIMENSIONS OF ALL EQUIPMENT IN THE PROJECT REGARDLESS OF THE SOURCE AND COORDINATE ACCESS TO THE SPACE AND VERIFY CLEAR FLOOR SPACE IS PROVIDED AS REQUIRED TO ENSURE EASE OF INSTALLATION.
- ALL WORK MUST BE OF GOOD QUALITY, FREE FROM DEFECTS, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PENETRATIONS IN THE STRUCTURE FOR THE PROPER INSTALLATION OF THE WORK.
- ALL MATERIALS USED FOR CONSTRUCTION SHALL BE NEW AND UNDAMAGED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL WORK SHOWN.
- THE CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE DESIGN PROFESSIONALS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
- DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.
- EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR IN WRITING ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THE INSTALLERS WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS.
- "TYPICAL" (TYP) AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITIONS OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
- CONTROL JOINTS (CJ) SHALL BE INSTALLED AT ALL EXTERIOR ELEVATIONS. REFER TO ELEVATION DRAWINGS FOR EXTERIOR CONTROL JOINT LOCATIONS. REVIEW CJ LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- REMOVE ABANDONED PIPE, DUCTS, CONDUITS, AND EQUIPMENT BACK TO THE SOURCE OF SUPPLY WHERE POSSIBLE. WHERE NOT POSSIBLE CAP, STUB, AND TAG WITH IDENTIFICATION. PATCH HOLES LEFT BY REMOVAL USING MATERIALS SPECIFIED FOR NEW CONSTRUCTION.
- REMOVE EXISTING WORK AS INDICATED AND AS REQUIRED TO ACCOMPLISH NEW WORK.
- WHERE EXISTING FINISHED SURFACES ARE CUT SO THAT A SMOOTH TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG A STRAIGHT LINE AT A NATURAL LINE OF DIVISION AND MAKE RECOMMENDATION TO ARCHITECT.
- PROTECT EXISTING WORK TO REMAIN. PERFORM CUTTING TO ACCOMPLISH REMOVALS NEATLY AND AS SPECIFIED FOR CUTTING NEW WORK. REPAIR ADJACENT CONSTRUCTION AND FINISH DAMAGED DURING REMOVAL WORK. PATCH AS SPECIFIED FOR PATCHING NEW WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXTENT, NATURE, AND SCOPE OF WORK DESCRIBED IN THE CONTRACT DOCUMENTS AND COORDINATING WITH THE OWNER OR HIS/HER REPRESENTATIVE THE INTERFACING OF THE EXISTING BUILDING AND THE WORK SHOWN AND DESCRIBED IN THESE CONTRACT DOCUMENTS.
- ALL "EXISTING" INFORMATION ON THE CONTRACT DOCUMENTS HAS BEEN OBTAINED FROM A PREVIOUS SET OF DRAWINGS, OR FROM FIELD INVESTIGATION AND SUCH "EXISTING" INFORMATION SHALL BE FIELD VERIFIED BY ALL CONTRACTORS.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DESIGNATED CONSTRUCTION STAGING LOCATIONS, STORAGE AREAS, AND CONSTRUCTION SEQUENCING.
- THE PREMISES WILL BE OCCUPIED AT ALL TIMES DURING THE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING ALL INTERRUPTIONS OF UTILITIES, TEMPORARY EXITS, DUST PARTITIONS, DELIVERIES, AND ALL OTHER JOB REQUIREMENTS.
- PHASE DEMOLITION, ABATEMENT, AND NEW WORK AS REQUIRED TO MAINTAIN BUILDING OPERATIONS, PROTECT BUILDING OCCUPANTS, AND TO MAINTAIN REQUIRED ENTRANCES AND EXITS THROUGHOUT THE DURATION OF THE PROJECT. SUBMIT PROPOSED PHASING PLAN FOR REVIEW AND APPROVAL PRIOR TO COMMENCING THE WORK.

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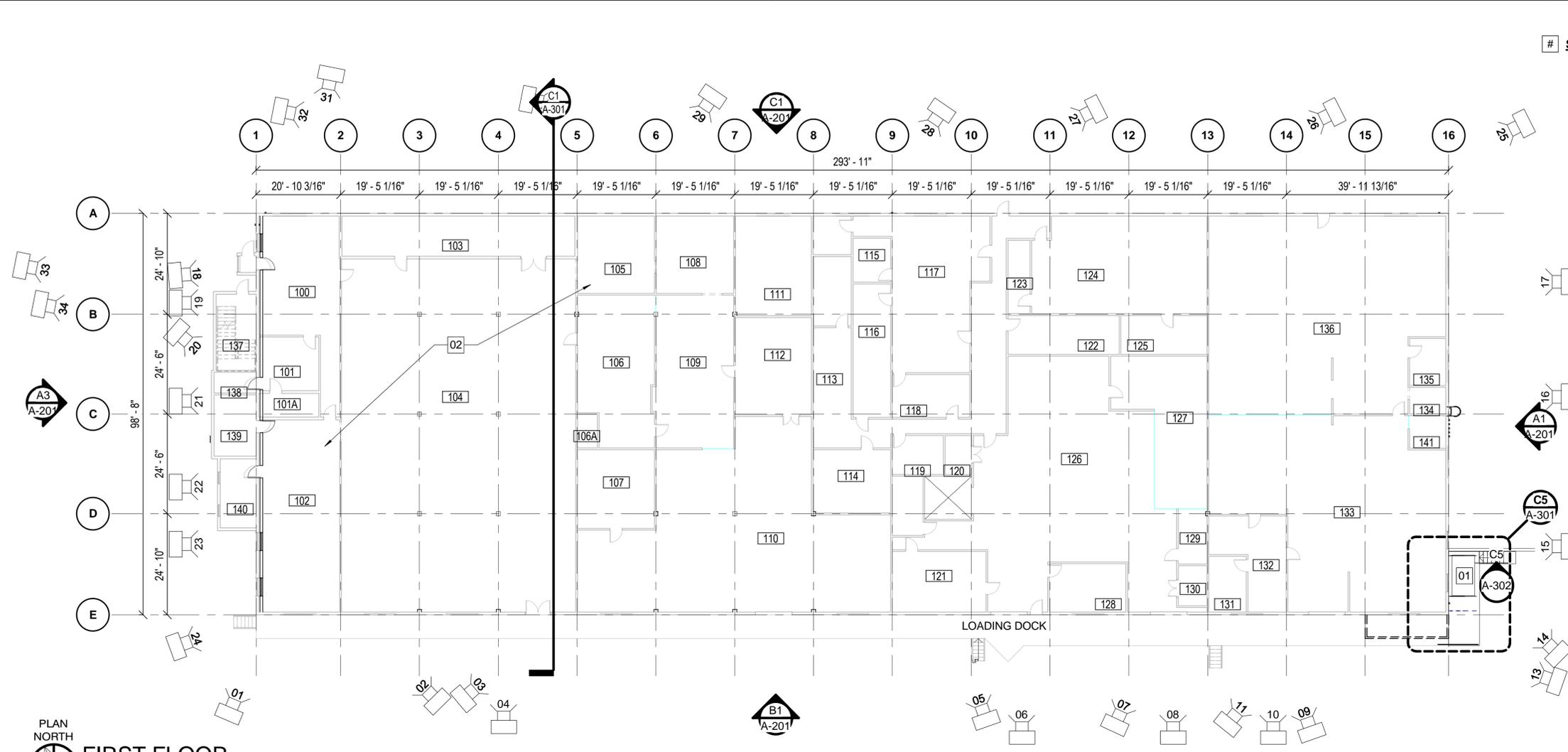
DATE	
DESCRIPTION	
SYMBOL	
APPROVED	
FOR COMMANDER NAFAC / B.L.T.L.	
SATISFACTORY TO DATE	
DES	DRW
MUN	CHK
TAH	
PROJECT MANAGER	
PT TECH. BRANCH HEAD	
CHIEF ENGINEER	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON QUANTICO, VA MARINE CORPS BASE QUANTICO QUANTICO, VA REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS LEGEND & ABBREVIATIONS	
SCALE: AS NOTED	
EPROJECT NO. X-XXX	
CONSTR. CONTR. NO. N40080-15-D-0452	
NAVFAC DRAWING NO. 3190214	
SHEET 9 OF 34	
A-001	

REV DATE: 02/12/2016 10:31:59 AM

DRAWING REVISION: 10 MAY 2014

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FILE NAME: C:\Revit\Projects\87412\Bldg1001\Quantico\Modis\Arch\87412_A_1.dwg
REV DATE: 6/21/2016 10:32:00 AM



- # SHEET KEY NOTES:
1. RELOCATE SHED TO ANOTHER LOCATION ON SITE OR SITE NEARBY ON BASE AS DIRECTED BY CONTRACTING OFFICER'S REPRESENTATIVE PRIOR TO MOVING.
 2. PAINT DUCTWORK/INSULATION TO MATCH EXISTING - SEE MECHANICAL FOR LOCATIONS

PLAN NORTH
FIRST FLOOR
 SCALE: 1/16" = 1'-0"

GENERAL DEMOLITION NOTES:

1. EXISTING CONDITIONS SHOWN ON DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT SHOW ALL CONDITIONS THAT MAY AFFECT THE WORK OF THIS CONTRACT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. REFER TO ALL ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION AND COORDINATION.
2. FIELD VERIFY EXISTING CONDITIONS BEFORE COMMENCING ANY WORK. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES DETRIMENTAL TO THE PROPER EXECUTION OF NEW CONSTRUCTION.
3. ALL DEMOLITION WORK SHALL COMPLY WITH APPLICABLE BUILDING CODE AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS. SEE CODE SUMMARY SHEET FOR APPLICABLE BUILDING CODE.
4. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. PROTECT ALL OTHER EXISTING STRUCTURES ON ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION ON ADJACENT PROPERTIES OR EXISTING CONSTRUCTION TO REMAIN ON SITE, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO THE SATISFACTION OF THE PROPERTY OWNER.
5. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION NOTED TO REMAIN FROM DAMAGE AND SOILING DURING DEMOLITION. REMOVE DEBRIS REGULARLY AS NECESSARY TO ELIMINATE INTERFERENCE.
6. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN THE OWNER'S PROPERTY, DEMOLISHED MATERIALS SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE WITH FURTHER DISPOSITION AT THE CONTRACTOR'S OPTION.
7. EXISTING WALLS SHOWN GRAPHICALLY WITH SOLID LINES TO REMAIN. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN AND PREPARE SURFACES TO RECEIVE NEW CONSTRUCTION OR FINISHES.
8. ALL DEMOLISHED MATERIALS SHALL BE LEGALLY DISPOSED OF PROMPTLY. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE. NO BURNING IS ALLOWED.
9. PROTECT ALL ADJACENT AREAS FROM THE DEMOLITION. REPAIR OR REPLACE, AT NO COST TO THE OWNER, ALL AREAS OR ITEMS DAMAGED DURING THE DEMOLITION.
10. LIMITS OF CONTRACT TO EXTEND UP TO, AND INCLUDE, THE PROPERTY LINES, AND SHALL NOT EXTEND BEYOND THESE LIMITS ONTO PUBLIC OR PRIVATE PROPERTY, EXCEPT AS INDICATED ON THE DRAWINGS.
11. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
12. CONTRACTOR SHALL COMPLY WITH ALL NECESSARY FIRE SAFETY REQUIREMENTS IN ACCORDANCE WITH 1988 UFC AND NFPA 13 AND CURRENTLY ADOPTED CITY AND STATE CODES.
13. ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE OTHER WORK OF THIS PROJECT AS OUTLINED IN THE DOCUMENTS. ANY DISCREPANCIES NOTED WHICH WILL IMPACT THE SCHEDULE FOR CONSTRUCTION OR HAVE AN EFFECT ON THE CONTINUED OPERATION OF BUSINESS AT THIS FACILITY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
14. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
15. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
16. PRIOR TO COMMENCEMENT WITH ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
17. CARE SHOULD BE MADE TO KEEP DUST AND NOISE FROM DEMOLITION ACTIVITIES FROM THE OTHER PORTIONS AND FLOORS OF THE BUILDING. ERECT AND MAINTAIN DUSTPROOF PARTITIONS. COVER AND PROTECT FURNITURE, FURNISHINGS AND EQUIPMENT THAT HAVE NOT BEEN REMOVED.
18. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDING AREAS TO REMAIN.

GENERAL NEW WORK NOTES:

1. THE BUILDING 1001 SCOPE OF WORK ENTAILS (BUT IS NOT LIMITED TO):
 - EXTERIOR WALL ASBESTOS AND LEAD PAINT ABATEMENT (SEE HAZ MAT DRAWINGS)
 - EXTERIOR WALL FINISH REPAIR/REPLACEMENT
 - ROOF AND DRAINAGE SYSTEM REPAIR
 - REPAIR AND REPLACEMENT OF EXISTING HVAC UNITS AND ASSOCIATED CONTROLS (SEE MECHANICAL DRAWINGS)
2. FOR ARCHITECTURAL GENERAL NOTES, MATERIAL LEGEND, AND ABBREVIATIONS REFER TO SHEET A-001.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE BEGINNING WORK AND FABRICATION. THE CONTRACT OFFICER SHALL BE NOTIFIED IN WRITING IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO CASE SHALL DIMENSIONS BE SCALED OFF PLANS, SECTIONS, OR DETAILS FROM THESE DRAWINGS.
4. FOR DIMENSIONS OR ADDITIONAL INFORMATION NOT ILLUSTRATED, REFER TO LARGER SCALE DRAWINGS.
5. ALL DIMENSIONS FROM: COLUMN GRID LINE TO COLUMN GRID LINE. COLUMN GRID LINE TO FACE OF CMU WALL. FACE OF CMU WALL TO FACE OF METAL STUD WALL. FINISH FACE OF METAL STUD WALL TO FINISH FACE OF PRECAST CONCRETE WALL PANEL. FACE OF PRECAST WALL PANEL TO FACE OF PRECAST WALL PANEL. UNLESS NOTED OTHERWISE.
6. THE FIRST FLOOR FINISHED FLOOR ELEVATION IS 100'-0" UNLESS NOTED OTHERWISE.



APPROVED	DATE
FOR COMMANDER NAVFAC/B.L.T.L.	DESCRIPTION
ACTIVITY	SYMBOL
SATISFACTORY TO DATE	DATE
DES DWG	DRW MUN
CHK	TAH
PROJECT MANAGER	
IPY TECH. BRANCH HEAD	
CHIEF ENGINEER	

STATE OF MARYLAND
 DANIEL WAYNE WEBER
 ARCHITECT
 10565
 8/21/2016

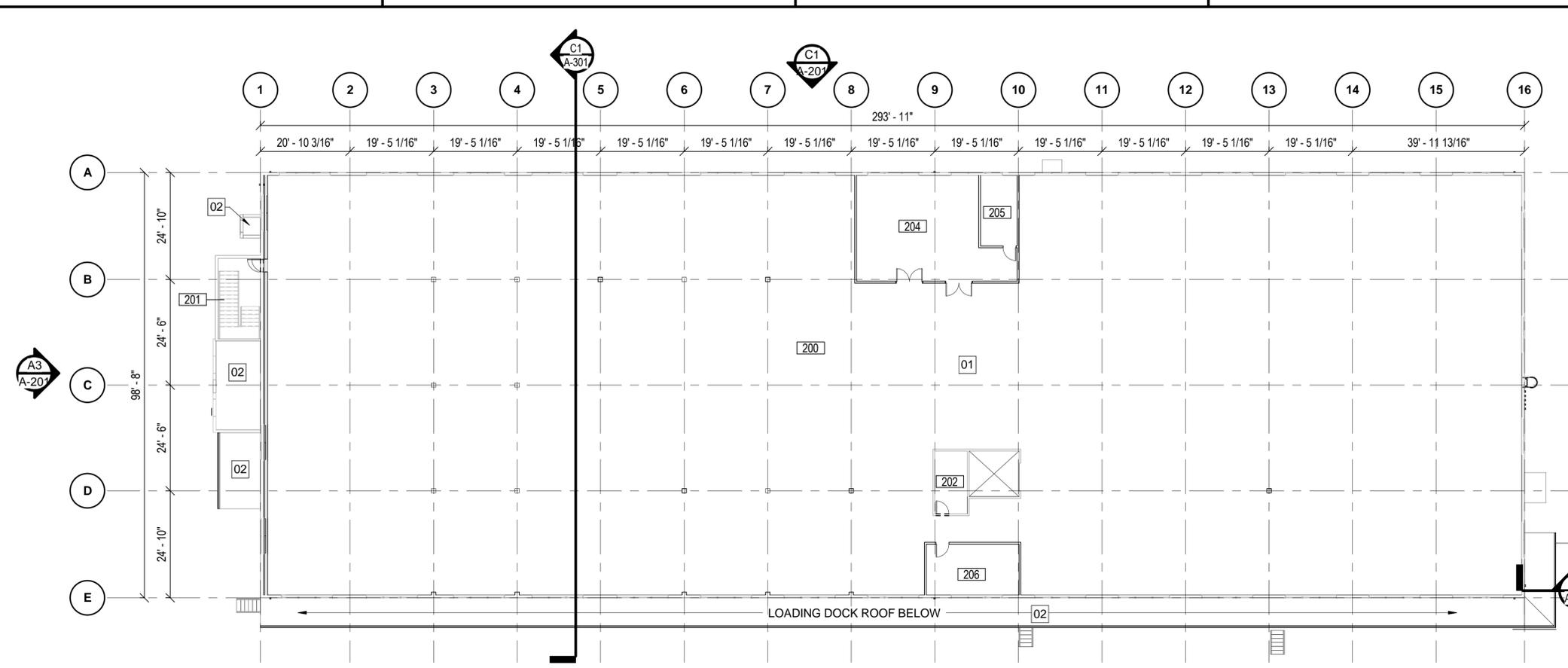
WileyWilson | BURNS & MCDONNELL
 JOINT VENTURE

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON QUANTICO, VA
 MARINE CORPS BASE QUANTICO QUANTICO, VA
REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS
FIRST FLOOR PLAN

SCALE: AS NOTED
 EPROJECT NO. X-XXX
 CONSTR. CONTR. NO. N40080-15-D-0452
 NAVFAC DRAWING NO. 3190215
 SHEET 10 OF 34
A-101

DRAWING REVISION: 10 MAY 2014

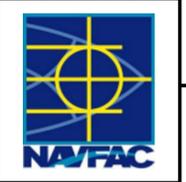
- # SHEET KEY NOTES:
- NO ARCHITECTURAL WORK THIS AREA.
 - ROOF BELOW, SEE ROOF PLAN FOR WORK THIS AREA.



PLAN NORTH
SECOND FLOOR
 SCALE: 1/16" = 1'-0"



DATE	DESCRIPTION	BY	APPR



WileyWilson | BURNS & MCDONNELL
 JOINT VENTURE

APPROVED
 FOR COMMANDER NAVFAC/B.L.T.L.

SATISFACTORY TO DATE					
DES	DWM	DRW	MJM	CHK	TAH
PROJECT MANAGER					
IPT TECH. BRANCH HEAD					
CHIEF ENGINEER					

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
 QUANTICO, VA
 MARINE CORPS BASE QUANTICO
 QUANTICO, VA
**REPAIR BUILDING 1001 AND INTERIOR
 IMPROVEMENTS FOR DAPS**
SECOND FLOOR PLAN

SCALE:	AS NOTED
PROJECT NO.	X-XXX
CONSTR. CONTR. NO.	N40080-15-D-0452
NAVFAC DRAWING NO.	3190216
SHEET	11 OF 34
A-102	

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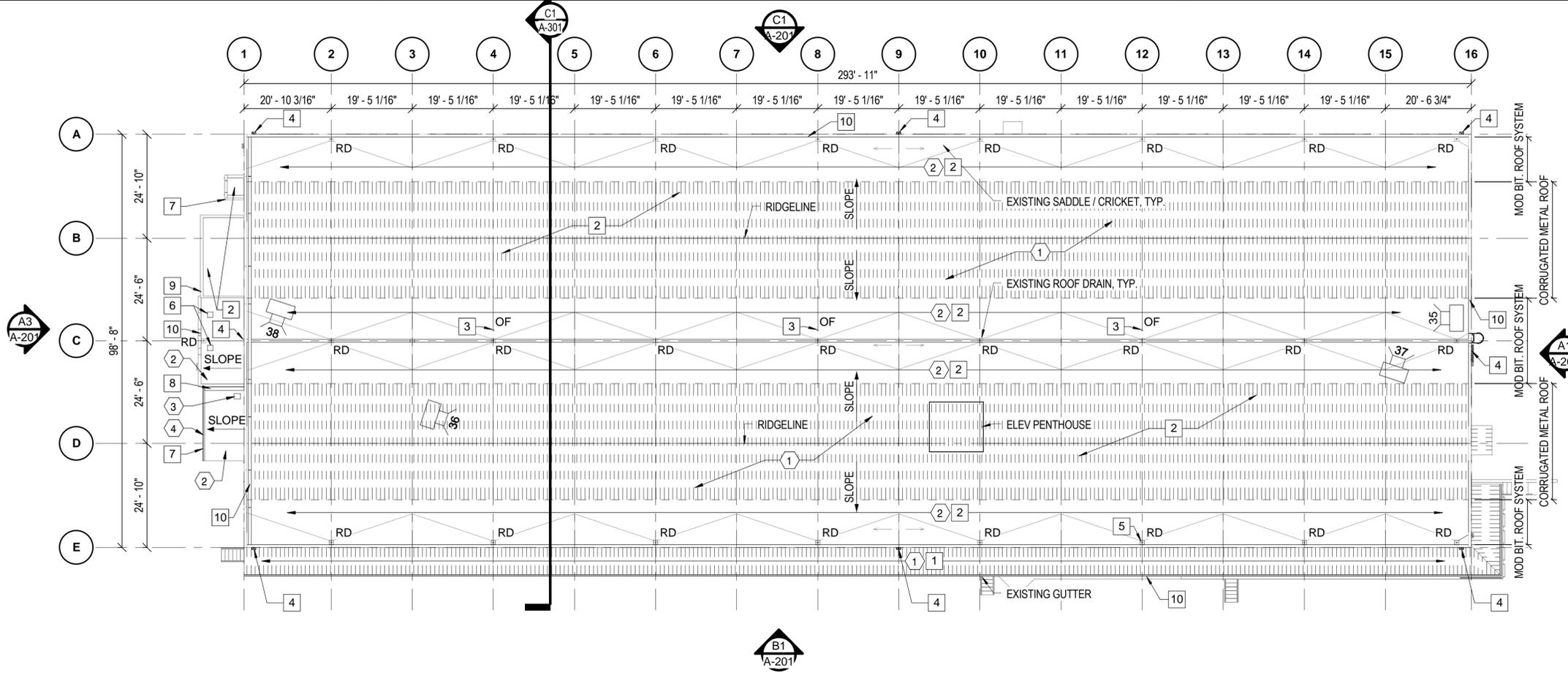
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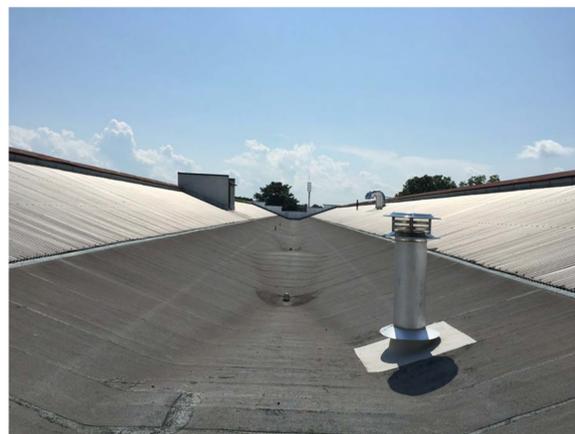
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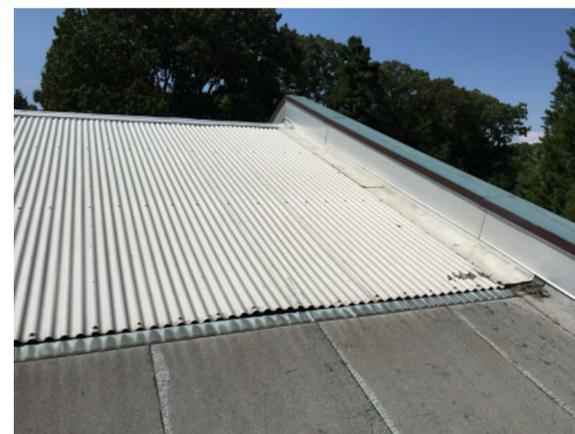
- GENERAL NOTES:**
- RE: SHEET A-001 FOR ARCHITECTURAL MATERIAL, LEGEND AND ABBREVIATIONS.
 - RE: SHEET A-001 FOR ARCHITECTURAL GENERAL NOTES
- DEMOLITION KEY NOTES:**
- REMOVE EXISTING METAL ROOF PANELS AND ALL ASSOCIATED FLASHING, TRIM AND ACCESSORIES. PROTECT ALL ADJACENT MATERIALS AND FINISHES TO REMAIN & UNDERLYING ROOF DECK/SUPPORT.
 - REMOVE EXISTING MEMBRANE ROOF SYSTEM INCLUDING ALL ASSOCIATED FLASHING, TRIM AND ACCESSORIES. PROTECT ADJACENT MATERIALS AND FINISHES TO REMAIN & UNDERLYING ROOF DECK.
 - DEMOLISH EXISTING ROOF CURB.
 - DEMOLISH EXISTING GUTTER AND DOWNSPOUT (CONDUCTOR).
- NEW WORK KEY NOTES:**
- INSTALL STANDING SEAM METAL ROOF SYSTEM INCLUDING ALL ASSOCIATED FLASHING, TRIM AND ACCESSORIES OVER EXISTING SUBSTRUCTURE.
 - INSTALL MODIFIED BITUMEN ROOF SYSTEM INCLUDING INSULATION, COVER BOARD, ALL ASSOCIATED FLASHING, TRIM AND ACCESSORIES OVER EXISTING ROOF DECK. EXAMINE EXISTING ROOF DECK PRIOR TO INSTALLATION OF NEW ROOF SYSTEM AND REPAIR ANY DEFICIENCIES AS REQUIRED TO MEET ROOF MANUFACTURER'S WARRANTY REQUIREMENTS.
 - INSTALL OVERFLOW (OF) ROOF DRAIN. EXTEND PIPING HORIZONTALLY BELOW ROOF TO EAST FACADE. TERMINATE THROUGH WALL TO PRE-FINISHED ALUMINUM SCUPPER/CONDUCTOR HEAD (TO MATCH EXISTING) AND 6" DOWNSPOUT.
 - EXISTING HISTORIC SCUPPER/ CONDUCTOR HEAD AND DOWNSPOUT (REPAIR & REPAINT). SEAL WALL OPENING AND REPAIR CONDUCTOR HEAD ATTACHMENT TO WALL, TYP.
 - ROOF DRAIN (RD) TO REPLACE EXISTING, TYP ALL EXISTING ROOF DRAINS.
 - PROVIDE ROOF CURB TO MATCH SIZE AND LOCATION OF EXISTING.
 - GUTTER AND DOWNSPOUT (CONDUCTOR) TO REPLACE EXISTING.
 - PROVIDE ENCLOSURE FOR EXISTING CONDUCTOR.
 - EXISTING THROUGH WALL SCUPPER AND DS TO REMAIN. PROVIDE SCUPPER FLASHING PER SPECS AND COORD WITH NEW ROOF SYSTEM.
 - PARAPET WALL TO RECEIVE VERTICAL MEMBRANE, FLASHING AND COPING SYSTEM, TYP.



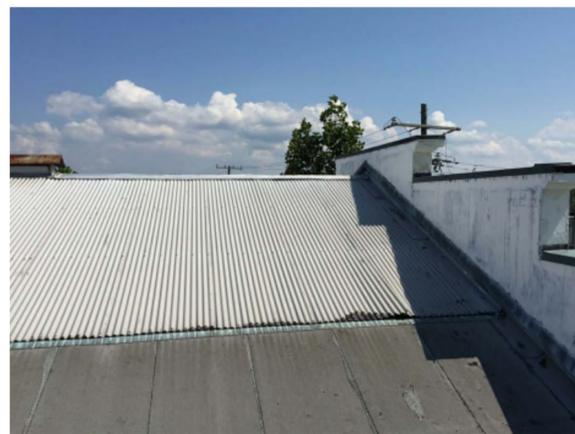
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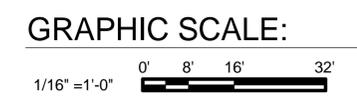
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APPROVED	DATE
FOR COMMANDER NAVFAC/B.L.T.L.	DESCRIPTION
ACTIVITY	SYMBOL
SATISFACTORY TO DATE	DATE
DES DWM	DRW MJH
CHK TAH	
PROJECT MANAGER	
IP/T TECH. BRANCH HEAD	
CHIEF ENGINEER	

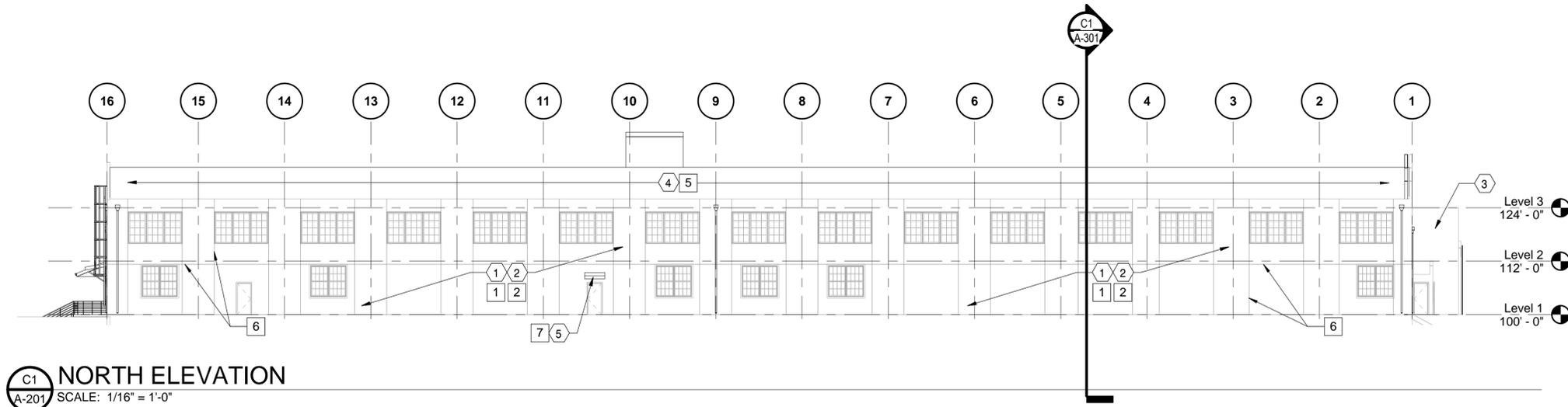
STATE OF MARYLAND
 ARCHITECT
 10/20/16

WileyWilson | BURNS & MCDONNELL
 JOINT VENTURE

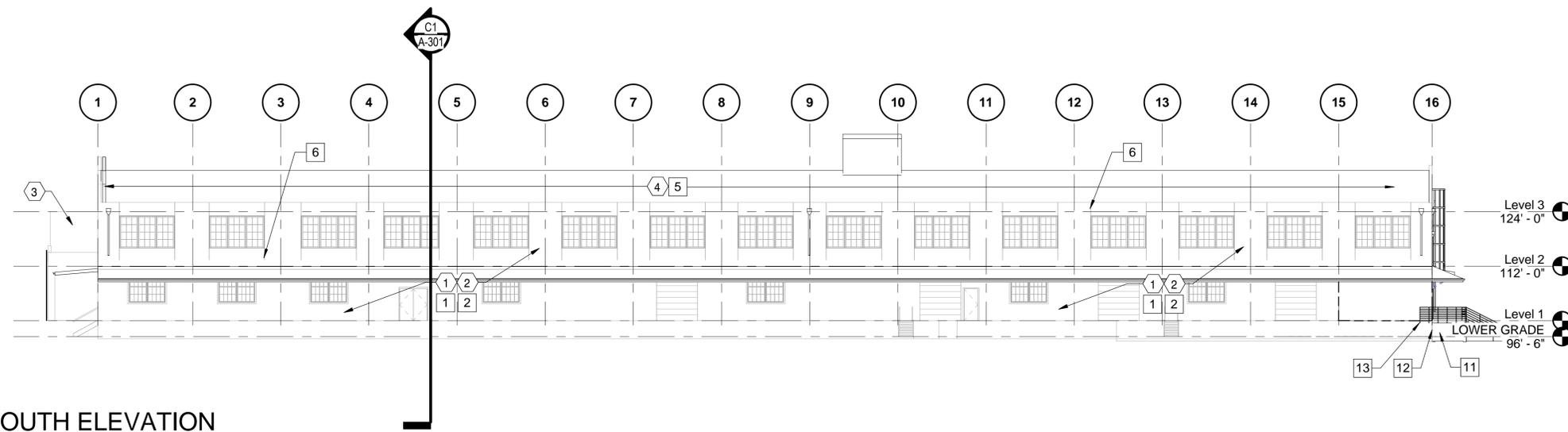
DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON QUANTICO, VA
 MARINE CORPS BASE QUANTICO QUANTICO, VA
 REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS
 ROOF PLAN

SCALE: AS NOTED
 EPROJECT NO. X-XXX
 CONSTR. CONTR. NO. N40080-15-D-0452
 NAVFAC DRAWING NO. 3190217
 SHEET 12 OF 34
A-103

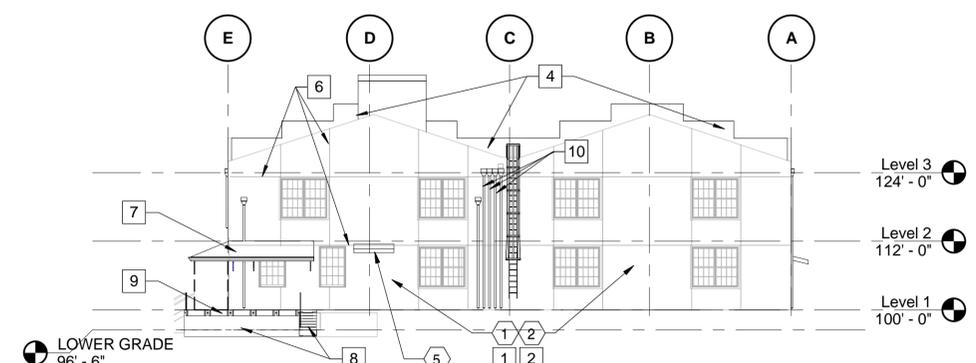
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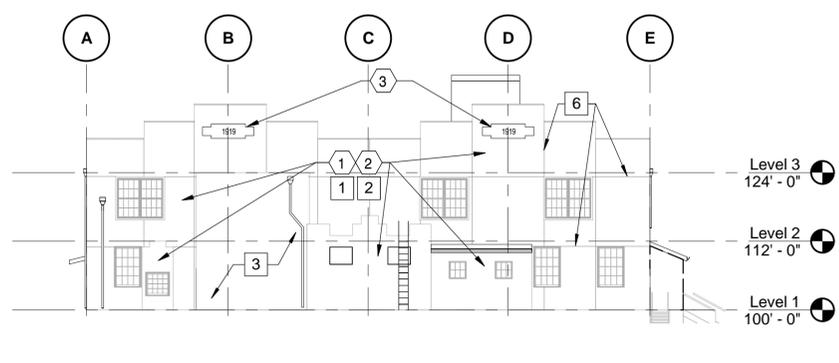
C1 NORTH ELEVATION
A-201 SCALE: 1/16" = 1'-0"



B1 SOUTH ELEVATION
A-201 SCALE: 1/16" = 1'-0"



A1 EAST ELEVATION
A-201 SCALE: 1/16" = 1'-0"

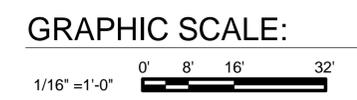


A3 WEST ELEVATION
A-201 SCALE: 1/16" = 1'-0"

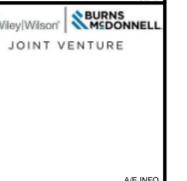
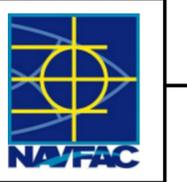
- GENERAL NOTES:**
- RE: SHEET A-001 FOR ARCHITECTURAL MATERIAL, LEGEND AND ABBREVIATIONS.
 - RE: SHEET A-001 FOR ARCHITECTURAL GENERAL NOTES
 - REFER TO PHOTOS ON SHEETS A-202 THROUGH A-204 FOR ADDITIONAL INFO.

- # DEMOLITION KEY NOTES:**
- FULLY REMOVE (ABATE) EXISTING LEAD PAINT PER HAZ MAT SPECIFICATION REQUIREMENTS
 - FULLY REMOVE (ABATE EXISTING STUCCO TO EXPOSE EXISTING MASONRY WALL BEHIND STUCCO.
 - FULLY DOCUMENT ORIGINAL BUILDING SIGNAGE PRIOR TO DEMO.
 - FULLY REMOVE (SELECTIVELY DEMOLISH) EXISTING ROOFING MATERIALS DOWN TO EXISTING DECK. REFER TO ROOF PLAN (DRAWING A103) AND SPECIFICATION SECTION 02 41 00.
 - FULLY REMOVE EXISTING CANOPY AND ALL SUPPORT COMPONENTS.

- # NEW WORK KEY NOTES:**
- REPAIR AND RE-POINT CRACKED AND DISPLACED MASONRY. REFERENCE SPECIFICATION SECTION 04 01 20.70.
 - INSTALL EXTERIOR STUCCO FINISH SYSTEM W/ INTEGRAL AIR AND MOISTURE BARRIER OVER EXISTING MASONRY. INSTALL PER REQUIREMENTS OF SPECIFICATION SECTION 09 24 23. PROVIDE CONTINUOUS SEALANT AT ALL STUCCO TERMINATIONS AND JOINTS AT WINDOW FRAMES, DOOR FRAMES, LOUVERS, BRACKETS, SUPPORTS, ETC. USE BACKER ROD AT ALL JOINTS LARGER THAN 1/8", TYP. COORDINATE SEALANT APPLICATION WITH STUCCO MANUFACTURERRR INSTRUCTIONS.
 - NO FINISH WORK REQUIRED FOR THIS WALL AREA. PROTECT FINISH DURING THE WORK.
 - APPLY EXTERIOR STUCCO FINISH SYSTEM OVER EXISTING SUBSTRATE. PREP SURFACE PER MANUFACTURER'S DIRECTIONS PRIOR TO APPLICATION.
 - INSTALL MODIFIED BITUMEN ROOF SYSTEM INCLUDING RIGID INSULATION AND ALL ACCESSORIES. REFER TO ROOF PLAN (DRAWING A103) AND SPECIFICATION SECTION 07 52 00.
 - STUCCO FINISH SYSTEM CONTROL JOINT, TYP. 12' PREFERRED JOINT SPACING / 18' MAX. JOINT SPACING - MAXIMUM 200 SF AREA BETWEEN JOINTS.
 - PROVIDE CANOPY TO MATCH EXISTING WITH STRUCTURAL STANDING SEAM METAL ROOF AND ASSOCIATED FLASHING COORDINATED WITH STUCCO FINISH SYSTEM INSTALLATION.
 - CAST IN PLACE CONCRETE LOADING DOCK EXTENSION AND CONCRETE STEPS WITH PAINTED STEEL HANDRAIL BOTH SIDES
 - DOCK BUMPERS
 - PRE-FINISHED ALUMINUM SCUPPER / DOWNSPOUT TO MATCH EXISTING FOR OVERFLOW ROOF DRAINAGE, TYP. PROFILE & COLOR TO MATCH EXISTING.
 - NEW CONCRETE LOADING DOCK - SEE DETAILS ON DRAWING A301 & A302.
 - 1/2" CONSTRUCTION JOINT. PROVIDE NEOPRENE JOINT FILLER AND SEALANT, CONT., TYP.
 - PIPE SLEEVE ESCUTCHEON FOR REMOVABLE HANDRAIL POSTS TO SET INTO. CORE DRILL LOCATIONS AND EPOXY GROUT IN PLACE, TYP.



DATE	APPROVED
DESCRIPTION	SYN



APPROVED	A/E INFO
FOR COMMANDER NAVFAC/B.L.T.L.	
ACTIVITY	
SATISFACTORY TO DATE	
DES DWG	DRW M/JH
CHK	TAH
PROJECT MANAGER	
IPY TECH. BRANCH HEAD	
CHIEF ENGINEER	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON QUANTICO, VA
MARINE CORPS BASE QUANTICO QUANTICO, VA
REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS
EXTERIOR BUILDING ELEVATIONS

SCALE:	AS NOTED
PROJECT NO.	X-XXX
CONSTR. CONTR. NO.	N40080-15-D-0452
NAVFAC DRAWING NO.	3190218
SHEET	13 OF 34
A-201	

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04

GENERAL NOTES:

- 1. PROTECT ALL OPENINGS (WINDOWS, DOORS & LOUVERS) INCLUDING BRACKETS AND HARDWARE FROM EXTERIOR WALL SURFACES. COORDINATE REMOVAL WITH HAZARDOUS MATERIAL ABATEMENT PROCEDURES. PATCH AND REPAIR ALL HOLES / VOIDS IN WALL PRIOR TO INSTALLING NEW STUCCO FINISH SYSTEM.
- 2. REMOVE AND DISPOSE OF ALL ABANDONED CONDUIT, PIPE, SUPPORT BRACKETS AND HARDWARE FROM EXTERIOR WALL SURFACES. COORDINATE REMOVAL WITH HAZARDOUS MATERIAL ABATEMENT PROCEDURES. PATCH AND REPAIR ALL HOLES / VOIDS IN WALL PRIOR TO INSTALLING NEW STUCCO FINISH SYSTEM.

SHEET NOTES:

- 1. REMOVE EXIST. METAL ROOF AND INSTALL PRE-FINISHED STANDING SEAM METAL ROOF AND FLASHING IN CONJUNCTION WITH EXTERIOR STUCCO FINISH SYSTEM.
- 2. REMOVE AND REINSTALL ALL RAIN LEADERS (DOWNSPOUTS) & SCUPPERS ATTACHED TO BUILDING EXTERIOR WALLS. PROVIDE CONTINUOUS TEMPORARY SOLUTION TO ROOF DRAINAGE COLLECTION THROUGHOUT THE DURATION OF THE WORK.
- 3. MAINTAIN LOADING DOCK OPERATION AND ACCESS DURING THE WORK.
- 4. REMOVE, PROTECT, STORE AND REINSTALL EXISTING SIGNAGE, TYP.
- 5. REMOVE EXISTING LOUVERS WHERE NO LONGER REQUIRED AND FILL IN MASONRY OPENINGS PRIOR TO INSTALLING EXTERIOR STUCCO FINISH SYSTEM, TYP.



Paul W. M.

06/20/16

WileyWilson | BURNS & MCDONNELL
JOINT VENTURE

APPROVED

FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY

SATISFACTORY TO DATE

DES DWG | DRW MJN | CHK TAH

PROJECT MANAGER

1PT TECH BRANCH HEAD

CHIEF ENGINEER

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

MARINE CORPS BASE QUANTICO

QUANTICO, VA

QUANTICO, VA

REPAIR BUILDING 1001 AND INTERIOR

IMPROVEMENTS FOR DAPS

EXISTING PHOTOS

SCALE: AS NOTED

EPROJECT NO. X-XXX

CONSTR. CONTR. NO. N40080-15-D-0452

NAVFAC DRAWING NO. 3190219

SHEET 14 OF 34

A-202

DRAWING REVISION: 10 MAY 2014

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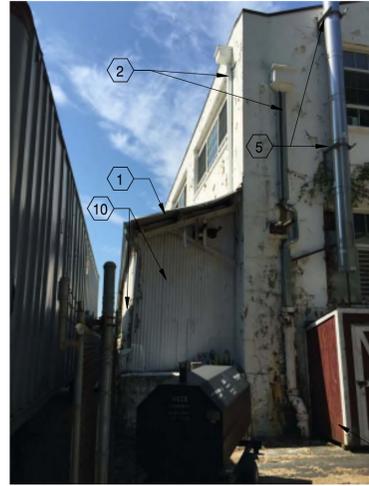
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GENERAL NOTES:

1. PROTECT ALL OPENINGS (WINDOWS, DOORS & LOUVERS) INCLUDING FRAMES AND HARDWARE FROM EXTERIOR WALL SURFACES. COORDINATE REMOVAL WITH HAZARDOUS MATERIAL ABATEMENT PROCEDURES. PATCH AND REPAIR ALL HOLES / VOIDS IN WALL PRIOR TO INSTALLING NEW STUCCO FINISH SYSTEM.
2. REMOVE AND DISPOSE OF ALL ABANDONED CONDUIT, PIPE, SUPPORT BRACKETS AND HARDWARE FROM EXTERIOR WALL SURFACES. COORDINATE REMOVAL WITH HAZARDOUS MATERIAL ABATEMENT PROCEDURES. PATCH AND REPAIR ALL HOLES / VOIDS IN WALL PRIOR TO INSTALLING NEW STUCCO FINISH SYSTEM.

SHEET NOTES:

1. REMOVE METAL ROOF AND INSTALL NEW METAL ROOF AND FLASHING IN CONJUNCTION WITH NEW EXTERIOR STUCCO FINISH SYSTEM.
2. REMOVE AND REINSTALL ALL RAIN LEADERS (DOWNSPOUTS) & SCUPPERS ATTACHED TO BUILDING EXTERIOR WALLS. PROVIDE CONTINUOUS TEMPORARY SOLUTION TO ROOF DRAINAGE COLLECTION THROUGHOUT THE DURATION OF THE WORK.
3. NOT USED.
4. REMOVE, PROTECT, STORE AND REINSTALL EXISTING SIGNAGE, TYP.
5. REMOVE, PROTECT, STORE & REINSTALL ALL MISCELLANEOUS SUPPORT BRACKETS AND FRAMES ATTACHED TO EXISTING EXTERIOR WALL. PROVIDE GALVANIZED OR STAINLESS STEEL HARDWARE AS REQUIRED FOR RE-ATTACHMENT.
6. AT NATURAL FINISH GRADE CONDITIONS, CUT BACK EARTH A MINIMUM OF 18" DEEP X 24" WIDE CONTINUOUSLY ALONG EXTERIOR WALL. PREP FOUNDATION SURFACE PER WATERPROOFING MANUFACTURER'S INSTRUCTIONS & APPLY NEW FLUID APPLIED FOUNDATION WATERPROOFING FROM DEPTH OF EXCAVATION UP TO 6" ABOVE FINISH GRADE. INSTALL TRANSITION MEMBRANE PER STUCCO MANUFACTURER'S INSTRUCTIONS AND THEN INSTALL STUCCO SYSTEM TO WITHIN 4" OF FINISH GRADE.
7. REMOVE, PROTECT, STORE & REINSTALL EXISTING EXHAUST STACK TO FACILITATE ABATEMENT AND REPLACEMENT OF STUCCO BEHIND STACK. PROVIDE GALVANIZED OR STAINLESS STEEL HARDWARE AS REQUIRED FOR RE-ATTACHMENT.
8. REMOVE, PROTECT, STORE, REINSTALL & REPAINT ROOF ACCESS LADDER. PROVIDE GALVANIZED OR STAINLESS STEEL HARDWARE AS REQUIRED FOR RE-ATTACHMENT.
9. RELOCATE EXISTING STORAGE SHED TO ANOTHER LOCATION ON SITE OR SITE NEARBY AS DETERMINED BY THE CONTRACTING OFFICER.
10. DEMOLISH EXISTING ENCLOSURE AT END OF LOADING DOCK AND ANY INTERIOR MOUNTED ACCESSORIES/SYSTEMS SERVING ONLY THIS AREA SUCH AS LIGHTING, CONDUITS, PIPING, ETC. IN ORDER TO RESTORE DOCK AND CANOPY TO ORIGINAL EXPOSED CONDITION.



06/20/16

WileyWilson BURNS & MCDONNELL JOINT VENTURE

APPROVED

FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY

SATISFACTORY TO DATE

DES DWM | DRW MJH | CHK TAH

PROJECT MANAGER

IPT TECH BRANCH HEAD

CHIEF ENGINEER

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

MARINE CORPS BASE QUANTICO

MARINE CORPS BASE QUANTICO

QUANTICO, VA

QUANTICO, VA

REPAIR BUILDING 1001 AND INTERIOR

IMPROVEMENTS FOR DAPS

EXISTING PHOTOS

SCALE: AS NOTED

EPROJECT NO. X-XXX

CONSTR. CONTR. NO. N40080-15-D-0452

NAVFAC DRAWING NO. 3190220

SHEET 15 OF 34

A-203

DRAWFORM REVISION: 10 MAY 2014

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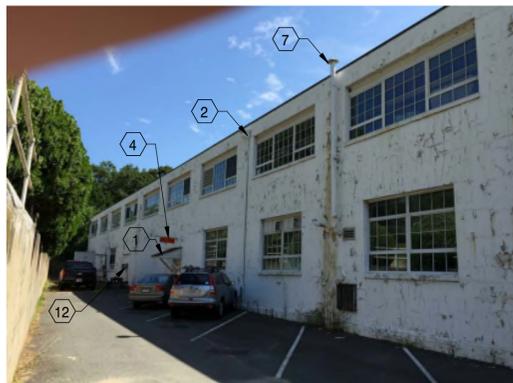
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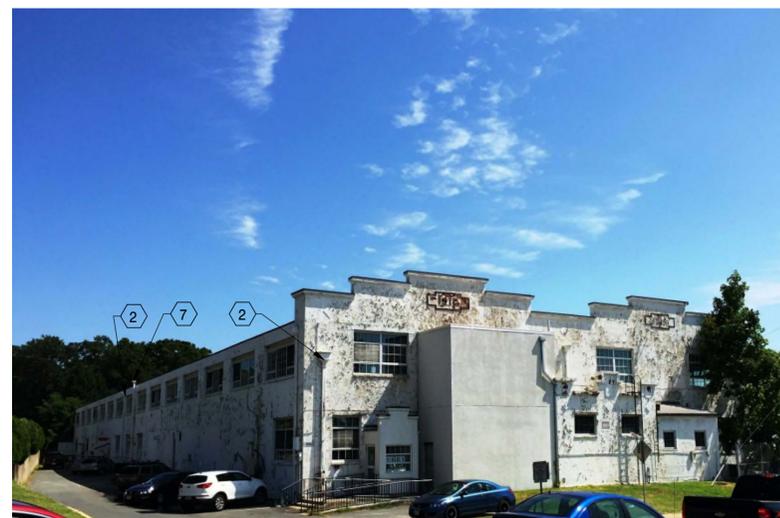
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GENERAL NOTES:

- 1. PROTECT ALL OPENINGS (WINDOWS, DOORS & LOUVERS) INCLUDING FRAMES FROM DAMAGE DURING THE WORK. ENSURE THAT NO DUST, DIRT AND/OR DEBRIS IS INTRODUCED TO OPERABLE PARTS.
- 2. REMOVE AND DISPOSE OF ALL ABANDONED CONDUIT, PIPE, SUPPORT BRACKETS AND HARDWARE FROM EXTERIOR WALL SURFACES. COORDINATE REMOVAL WITH HAZARDOUS MATERIAL ABATEMENT PROCEDURES. PATCH AND REPAIR ALL HOLES / VOIDS IN WALL PRIOR TO INSTALLING NEW STUCCO FINISH SYSTEM.

SHEET NOTES:

- 1. REMOVE CANOPY AND INSTALL STANDING SEAM METAL ROOF OVER PAINTED WOOD CANOPY SUPPORT FRAMING TO MATCH EXISTING & COORDINATE WITH NEW EXTERIOR STUCCO FINISH SYSTEM.
- 2. REMOVE AND REINSTALL ALL RAIN LEADERS (DOWNSPOUTS) & SCUPPERS ATTACHED TO BUILDING EXTERIOR WALLS. PROVIDE CONTINUOUS TEMPORARY SOLUTION TO ROOF DRAINAGE COLLECTION THROUGHOUT THE DURATION OF THE WORK.
- 3. REMOVE ALL ELECTRICAL CONDUIT, SWITCHES, PANELS AND METERS FROM EXTERIOR WALL (TYP.) AS REQUIRED TO FACILITATE WORK. COORDINATE WITH UTILITY AND PROVIDE TEMPORARY POWER TO MAINTAIN UNINTERRUPTED SERVICE TO BUILDING DURING THE WORK. PROVIDE NEW CONDUIT AND NEMA EXTERIOR RATED DISCONNECTS, PANEL & METER ENCLOSURES TO MATCH EXISTING, TYP.
- 4. REMOVE, PROTECT, STORE AND REINSTALL EXISTING SIGNAGE, TYP.
- 5. REMOVE, PROTECT, STORE & REINSTALL ALL MISCELLANEOUS SUPPORT BRACKETS AND FRAMES ATTACHED TO EXISTING EXTERIOR WALL. PROVIDE GALVANIZED OR STAINLESS STEEL BRACKETS, SUPPORT PLATES & HARDWARE AS REQUIRED FOR RE-ATTACHMENT.
- 6. AT NATURAL FINISH GRADE CONDITIONS, CUT BACK EARTH A MINIMUM OF 18" DEEP X 24" WIDE CONTINUOUSLY ALONG EXTERIOR WALL. PREP FOUNDATION SURFACE PER WATERPROOFING MANUFACTURER'S INSTRUCTIONS & APPLY FLUID APPLIED FOUNDATION WATERPROOFING FROM DEPTH OF EXCAVATION UP TO 6" ABOVE FINISH GRADE. INSTALL TRANSITION MEMBRANE PER STUCCO MANUFACTURER'S INSTRUCTIONS AND THEN INSTALL STUCCO SYSTEM TO WITHIN 4" OF FINISH GRADE.
- 7. REMOVE, PROTECT, STORE & REINSTALL EXISTING EXHAUST STACK TO FACILITATE ABATEMENT AND REPLACEMENT OF STUCCO BEHIND STACK. PROVIDE GALVANIZED OR STAINLESS STEEL HARDWARE AS REQUIRED FOR RE-ATTACHMENT.
- 8. REMOVE, PROTECT, STORE & REINSTALL ROOF ACCESS LADDER. PROVIDE GALVANIZED OR STAINLESS STEEL HARDWARE AS REQUIRED FOR RE-ATTACHMENT.
- 9. RELOCATE EXISTING STORAGE SHED TO A NEW LOCATION ON SITE OR NEARBY SITE ON BASE AS DETERMINED BY THE CONTRACTING OFFICER.
- RESTORE EXISTING DECORATIVE FACADE ELEMENTS. REPLICATE SHAPE WITH GLASS FIBER REINFORCED CONCRETE OR CLOSED CELL HIGH DENSITY POLYURETHANE AND APPLY TO MASONRY PRIOR TO INSTALLING STUCCO FINISH SYSTEM, TYP. OF EACH OCCURRENCE.
- RESTORE EXISTING BUILDING SIGNAGE ELEMENTS. PHOTOGRAPH AND FULLY DOCUMENT INCLUDING DIMENSIONS PRIOR TO DEMO OF EXISTING ELEMENT. REPLICATE ELEMENT AND APPLY TO MASONRY PRIOR TO INSTALLING STUCCO FINISH SYSTEM (SFS). USE SFS COLOR THAT MATCHES ORIGINAL ELEMENT FOR BORDER AND TEXT.
- 11. REMOVE AND REPLACE EXISTING AC UNITS AS REQUIRED TO FACILITATE THE WORK. RELOCATE & RESUPPORT AS REQUIRED TO MAINTAIN UNINTERRUPTED OPERATION DURING THE WORK.

APPR
DATE
SYN
DESCRIPTION



APPROVED: *Paul W. M...*
06/20/16

WileyWilson | BURNS & MCDONNELL
JOINT VENTURE

ACTIVITY
SATISFACTORY TO DATE
DES
DWM
DRW
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PROJECT MANAGER
1PT TECH. BRANCH HEAD
CHIEF ENGINEER

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON QUANTICO, VA
MARINE CORPS BASE QUANTICO QUANTICO, VA
REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS
EXISTING PHOTOS

SCALE: AS NOTED
EPROJECT NO. X-XXX
CONSTR. CONTR. NO. N40080-15-D-0452
NAVFAC DRAWING NO. 3190221
SHEET 16 OF 34
A-204

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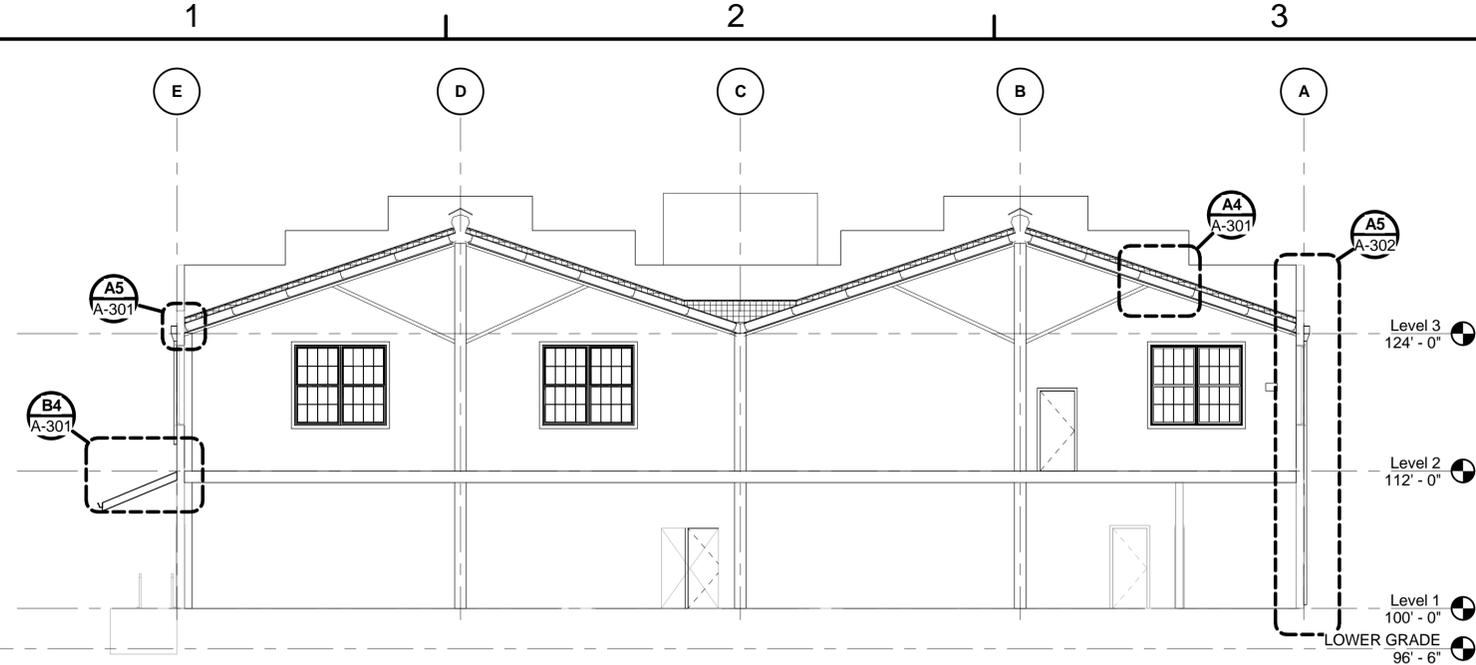
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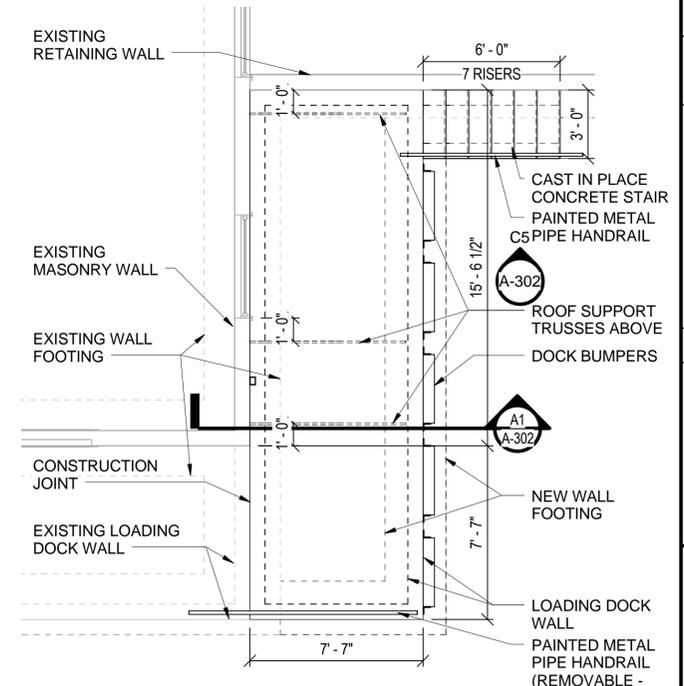
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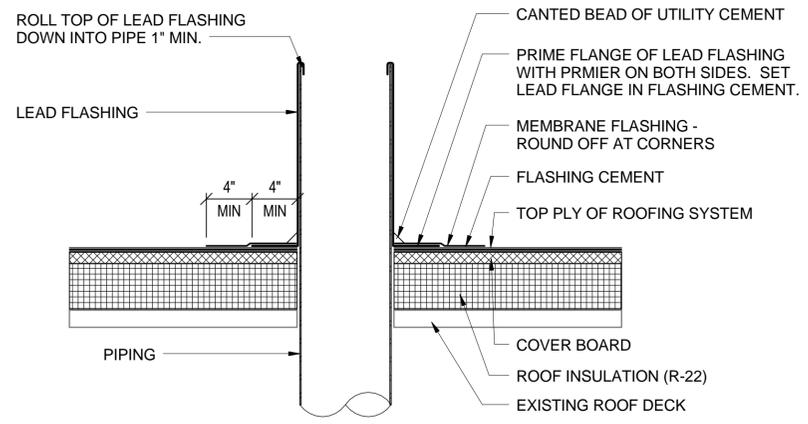
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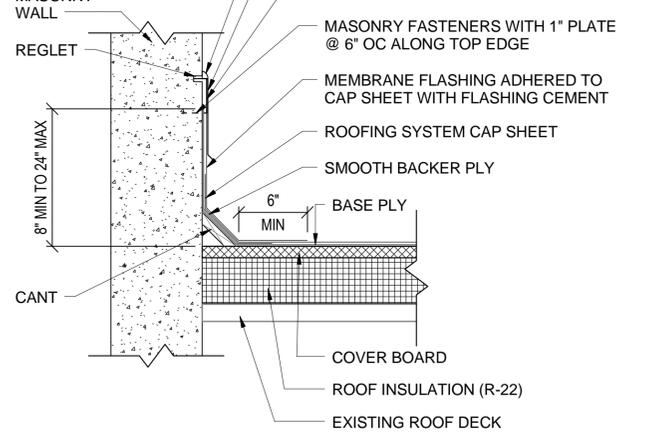
C1 BUILDING SECTION
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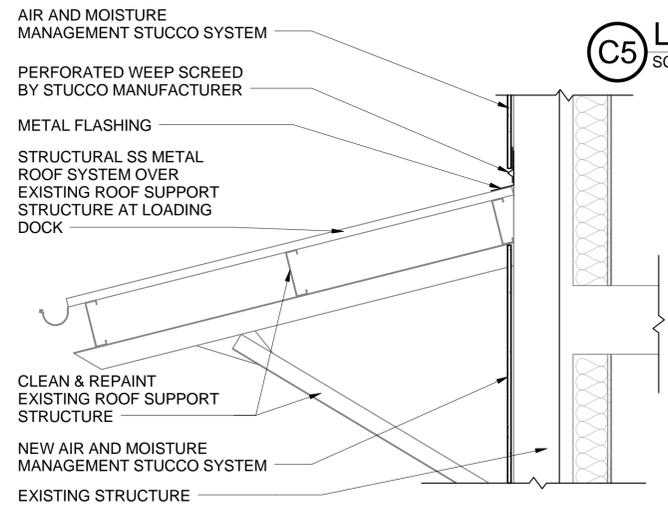
C5 LOADING DOCK ENLARGED PLAN
SCALE: 1/4" = 1'-0"



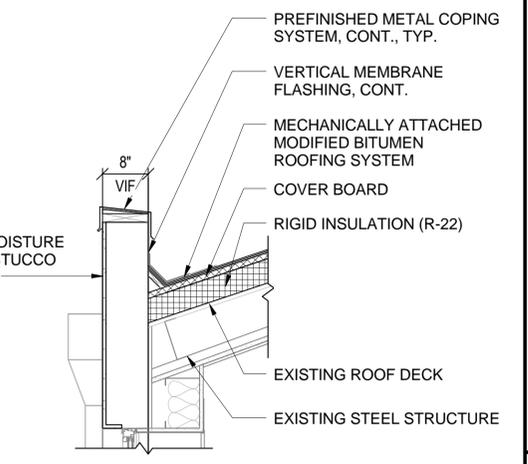
B1 TYP PIPE PENETRATION DETAIL
SCALE: NOT TO SCALE



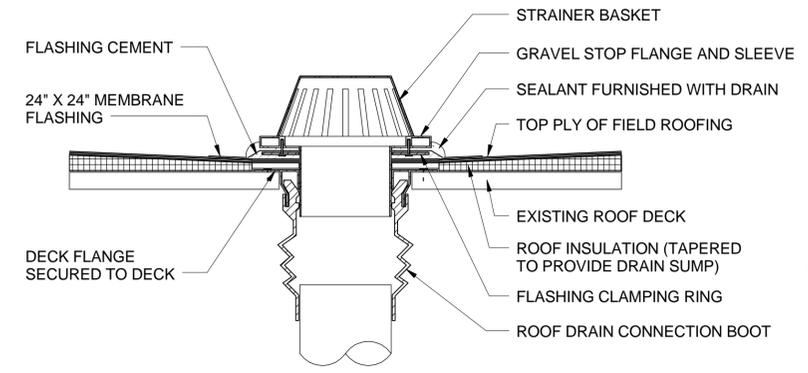
B2 TYP BASE FLASHING DETAIL @ REGLET
SCALE: NOT TO SCALE



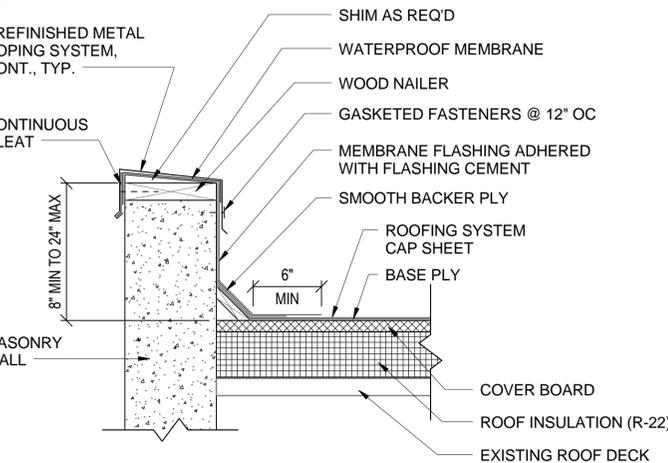
B4 TYP SECTION AT LOADING DOCK ROOF
SCALE: 3/4" = 1'-0"



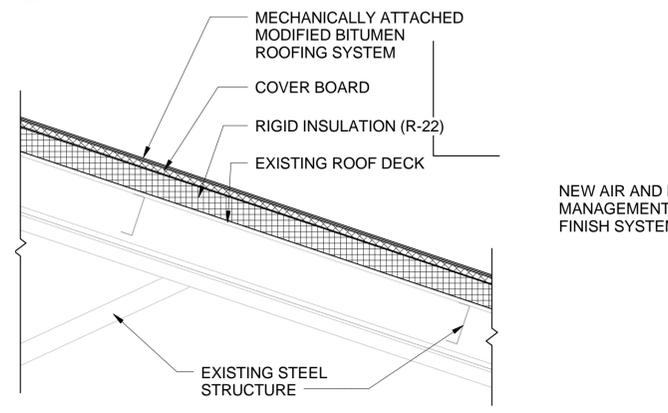
A5 TYP SECTION AT PARAPET
SCALE: 3/4" = 1'-0"



A1 TYP ROOF DRAIN DETAIL
SCALE: NOT TO SCALE



A2 TYP BASE FLASHING DETAIL @ COPING
SCALE: NOT TO SCALE



A4 TYP SECTION AT ROOF
SCALE: 3/4" = 1'-0"

APPROVED	DATE
FOR COMMANDER NAVFAC/B.L.T.L.	DESCRIPTION
ACTIVITY	
SATISFACTORY TO DATE	
DES DWG	DRW M/JN
CHK	TAH
PROJECT MANAGER	
IP/T TECH. BRANCH HEAD	
CHIEF ENGINEER	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON QUANTICO, VA MARINE CORPS BASE QUANTICO QUANTICO, VA REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS SECTION AND DETAILS	
SCALE: AS NOTED	
EPROJCT NO. X-XXX	
CONSTR. CONTR. NO. N40080-15-D-0452	
NAVFAC DRAWING NO. 3190222	
SHEET 17 OF 34	
A-301	

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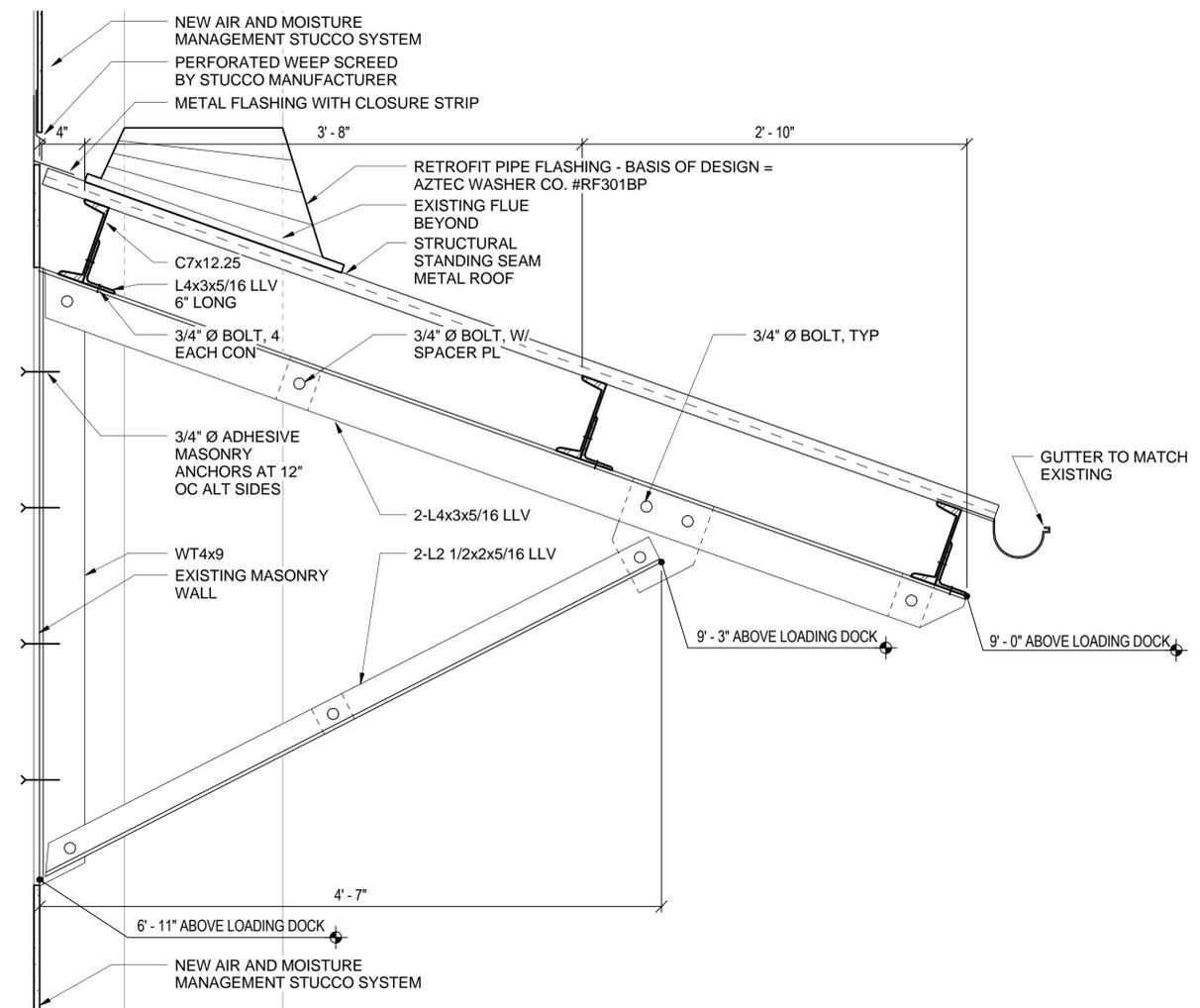
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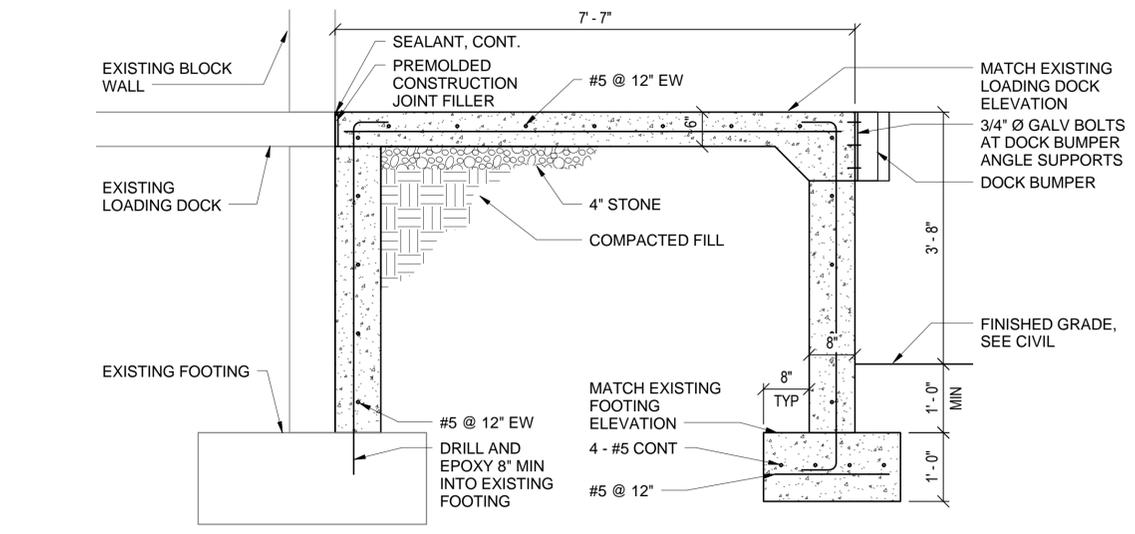
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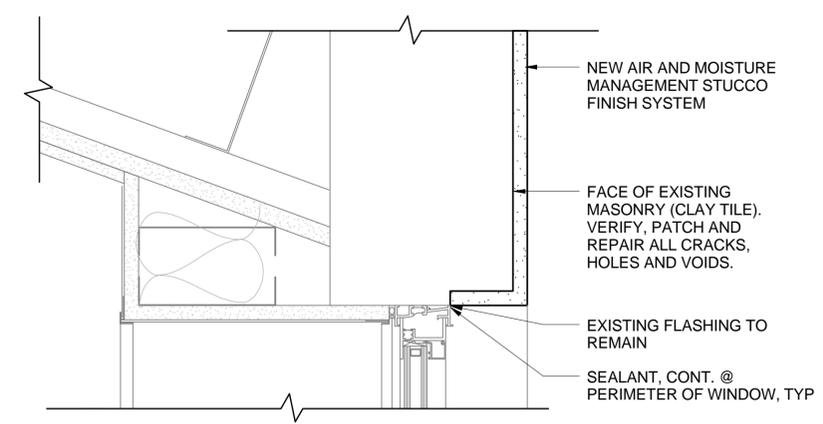
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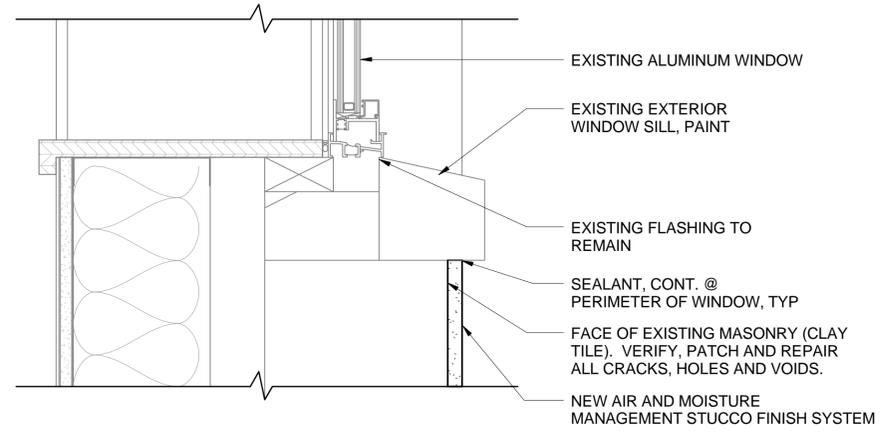
B1 TYP LOADING DOCK ROOF STRUCTURE
SCALE: 1 1/2" = 1'-0"



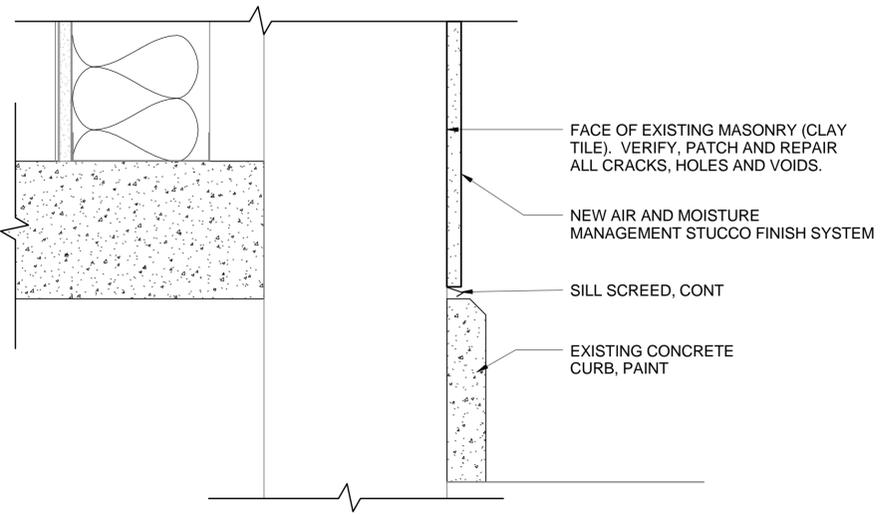
A1 LOADING DOCK
SCALE: 3/4" = 1'-0"



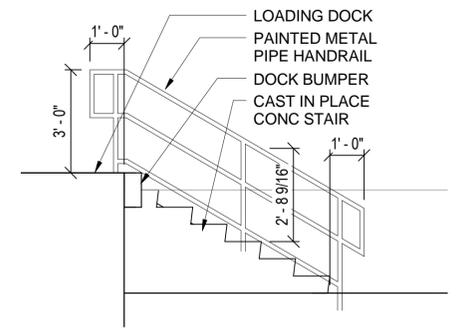
C3 TYP WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



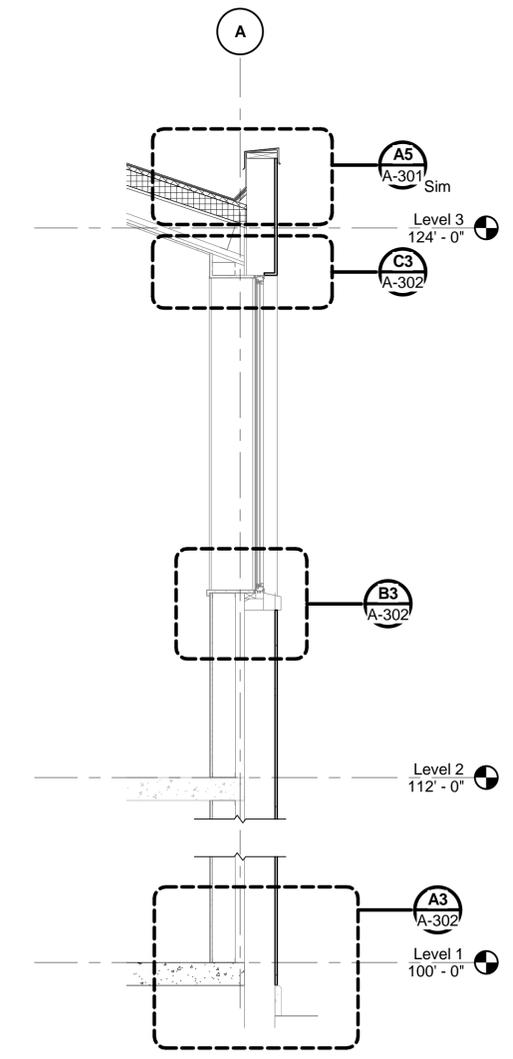
B3 TYP WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



A3 TYP DETAIL @ WALL BASE
SCALE: 3" = 1'-0"



C5 TYP HANDRAIL
SCALE: 3/8" = 1'-0"



A5 WALL SECTION
SCALE: 1/2" = 1'-0"

NO.	SYMBOL	DESCRIPTION	DATE	APP'R



WileyWilson
BURNS
MCDONNELL
JOINT VENTURE

APPROVED
FOR COMMANDER NAVFAC/BLTL

ACTIVITY
SATISFACTORY TO DATE
DES DWG | DRW MJH | CHK TAH
PROJECT MANAGER
IPT TECH BRANCH HEAD
CHIEF ENGINEER

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPAIR BUILDING 1001 AND INTERIOR
IMPROVEMENTS FOR DAPS
WALL SECTION AND DETAILS

SCALE: AS NOTED
PROJECT NO. X-XXX
CONSTR. CONTR. NO. N40080-15-D-0452
NAVFAC DRAWING NO. 3190223
SHEET 18 OF 34
A-302

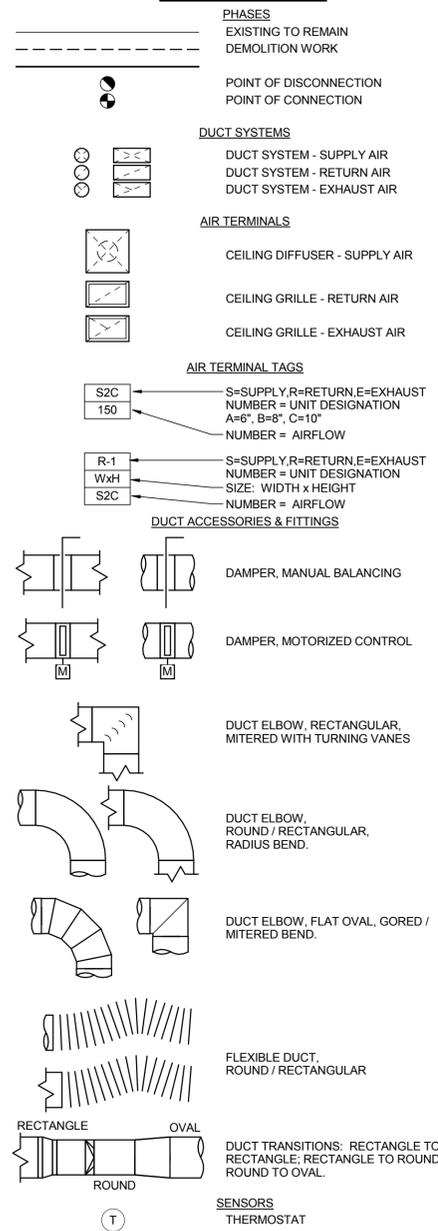
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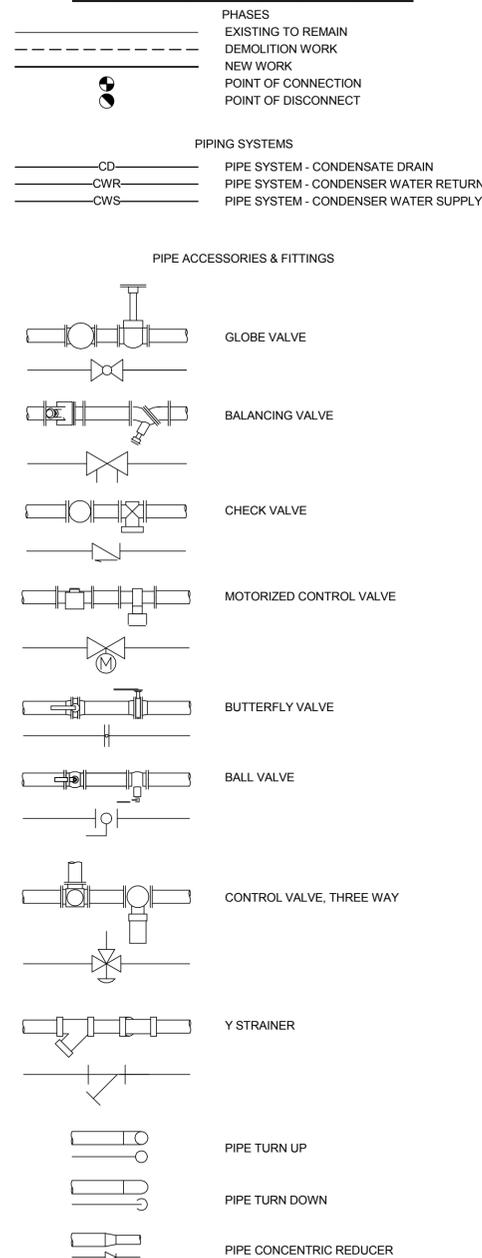
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MECHANICAL ABBREVIATIONS	
(E)	EXISTING (EQUIPMENT, DUCT, PIPE, ETC.) TO REMAIN.
AC	AIR CONDITIONER
ACC	AIR COOLED CHILLER
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
ATC	AUTOMATIC TEMPERATURE CONTROL(S)
BEL	BELLMOUTH FITTING
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER HOUR
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CLEAN OUT
CT	COOLING TOWER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREES
DI	DIGITAL INPUT
DIA	DIAMETER
DN	DOWN
DO	DIGITAL OUTPUT
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EL OR ELEV	ELEVATION
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F OR °F	DEGREES FARENHEIT
FCU	FAN COIL UNIT
FT	FOOT OR FEET
GAL	GALLON (U.S.)
GPM	GALLONS PER HOUR
HP	HEAT PUMP
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
OA	OUTSIDE AIR
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RLF	RELIEF AIR
SA	SUPPLY AIR
TB	TERMINAL BOX
TSTAT	THERMOSSTAT
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
WSAC	WATER SOURCE AIR CONDITIONER
WSHP	WATER SOURCE HEAT PUMP

HVAC LEGEND



MECHANICAL PIPING LEGEND



MECHANICAL GENERAL NOTES

INTENT
 1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE THE GENERAL AND APPROXIMATE LOCATION OF EQUIPMENT, PIPING AND DUCTWORK. THEY ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM (HVAC) BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS. CAREFULLY REVIEW ALL THE CONTRACT DOCUMENTS AND COORDINATE BETWEEN ALL TRADES PRIOR TO SUBMITTING SHOP DRAWINGS. VERIFY ALL SIZES, MATERIALS, TEMPERATURE AND PRESSURE RATINGS BEFORE ORDERING OR INSTALLING ANY MATERIALS OR EQUIPMENT. PREPARE INSTALLATION INSTRUCTIONS AND FABRICATION DRAWINGS PRIOR TO ACTUAL INSTALLATION.

2. REFER TO EACH DRAWING FOR NOTES SPECIFIC TO THAT DRAWING SHEET.

3. DO NOT SCALE FOR DUCT, PIPE OR EQUIPMENT LOCATIONS.

WORK SAFETY AND QUALITY
 1. COMPLY WITH ALL OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

2. ALL MISCELLANEOUS MATERIAL REQUIRED TO ENSURE PROPER INSTALLATION AND IS SHOWN IN DETAILS FOR PIPING, DUCTS, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

3. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN A MANNER WHICH MINIMIZES NOISE AND VIBRATION.

COORDINATION WITH OTHER TRADES
 1. COORDINATE THE INSTALLATION OF WORK WITH THE WORK OF OTHER TRADES. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID CONFLICTS.

2. COORDINATE DUCTWORK AND PIPING WITH ELECTRICAL, STRUCTURE, AND PLUMBING. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

3. COORDINATE MECHANICAL EQUIPMENT AND MATERIAL LOCATIONS WITH ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL PLANS TO AVOID CONFLICTS.

4. COORDINATE THE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH DIVISION 26 (ELECTRICAL CONTRACT DOCUMENTS) PRIOR TO ORDERING. PROVIDE WRITTEN VERIFICATION OF COORDINATION WITH DIVISION 26 PRIOR TO INSTALLATION OF EQUIPMENT.

5. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL LOUVERS, VENTS, DUCTS, AND PIPING THAT PENETRATE EXTERIOR WALLS.

6. PROVIDE OPENINGS IN BUILDING CONSTRUCTION FOR PASSAGE OF PIPING AND DUCTWORK. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL.

7. ALL NECESSARY ALLOWANCES AND PROVISIONS SHALL BE MADE BY THIS CONTRACTOR FOR BEAMS, COLUMNS, TRUSSES OR OTHER OBSTRUCTIONS OF THE BUILDING OR THE WORK OF OTHER CONTRACTORS. WHETHER OR NOT SAME IS INDICATED. WHERE NECESSARY TO AVOID OBSTRUCTIONS, THE DUCTS SHALL BE TRANSFORMED, DIVIDED, OFFSET, RAISED OR LOWERED WITH THE REQUIRED FREE AREA BEING MAINTAINED.

DUCTWORK
 1. DUCT SIZES ARE SHOWN AS INSIDE CLEAR DIMENSIONS. WHERE INTERNAL INSULATION IS CALLED FOR, DIMENSIONS SHALL BE INCREASED FOR THE THICKNESS OF THE INSULATION. SEE SPECIFICATION FOR THICKNESS.

2. ALL BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE TERMINAL CONNECTION SERVED UNLESS NOTED OTHERWISE. FLEXIBLE DUCT TO DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 6'-0". ALL RUNOUT AND BRANCH DUCTS SHALL CONTAIN A MANUAL VOLUME DAMPER FOR BALANCING.

3. ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS.

4. ALL DIFFUSERS SHALL HAVE FOUR-WAY BLOW UNLESS NOTED OTHERWISE.

5. SEE REFLECTED CEILING PLANS FOR EXACT LOCATION OF AIR DEVICES.

6. ALL DAMPERS, DAMPER OPERATORS, AND FANS SHALL BE ACCESSIBLE. LOCATE ALL EQUIPMENT OR APPURTENANCES IN AREAS WITH ACCESSIBLE CEILINGS. THE CONTRACTOR MAY UTILIZE ACCESS PANELS FOR THOSE AREAS NOT EASILY ACCESSIBLE. ALL ACCESS PANEL LOCATIONS SHALL BE COORDINATED WITH THE CONTRACT DOCUMENTS AND APPROVED BY THE OWNER PRIOR TO INSTALLATION OF EQUIPMENT.

7. ALL OPEN ENDED DUCTS SHALL BE REINFORCED WITH STEEL ANGLES (1-1/2" X 1-1/2" X 1/8") BOLTED OR RIVETED 6" ON CENTER (MAXIMUM) ALL AROUND THE PERIMETER OF THE DUCT MINIMUM 2 PER SIDE.

8. ALL DUCTWORK SHALL BE SLEEVED THROUGH WALL PENETRATIONS.

9. PROVIDE AIR TURNING DEVICES IN DUCTWORK AT ANY CHANGES IN DIRECTION OF 30 DEGREES OR GREATER.

10. PROVIDE CONICAL TEES FOR ROUND AND FLAT OVAL DUCT TAKE-OFFS.

PIPING
 1. SLOPE CONDENSATE DRAINS AT 1/8 INCHES FALL PER FOOT MINIMUM IN THE DIRECTION OF FLOW. PROVIDE DRAINAGE TYPE FITTINGS.

2. ALL PIPING SHALL BE SLEEVED THROUGH WALL PENETRATIONS.

3. SIZE AND ROUTE REFRIGERANT PIPING PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

EQUIPMENT
 1. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

2. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER SO THAT ALL FILTERS, VALVES, MOTORS, DAMPERS, ETC., ARE COMPLETELY ACCESSIBLE AND SERVICEABLE, INCLUDING ACCESS DOORS IF REQUIRED.

3. COMPLETE AND PROPER INSTALLATION OF THERMOSTATS AND ALL OTHER NECESSARY FIELD MOUNTED CONTROL COMPONENTS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. THE EQUIPMENT MANUFACTURERS SHALL FURNISH COMPLETE WIRING CONTROLS. ALL CONTROL WIRING SHALL BE IN CONDUIT AND INSTALLED PER DIVISION 26 OF THE SPECIFICATIONS.

4. PROVIDE FLEXIBLE CONNECTIONS BETWEEN HVAC EQUIPMENT AND SHEET METAL DUCTWORK.

CONTROLS
 1. PROVIDE THERMOSTATS WHERE SHOWN ON THE DRAWINGS. MOUNT DEVICES AT THE SAME ELEVATION AS LIGHT SWITCH UNLESS NOTED OTHERWISE.

RENOVATION WORK
 1. THIS PROJECT IS A RENOVATION OF AN EXISTING FACILITY, AND PREVIOUS RECORD DRAWINGS FORM THE BASIS FOR MANY OF THESE DRAWINGS. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR PURCHASE OF EQUIPMENT, MATERIALS, AND ASSEMBLIES. THERE MAY EXIST FIELD CONDITIONS WHICH DIFFER FROM THOSE SHOWN ON THESE DRAWINGS. ANY SUCH DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTING OFFICER FOR RESOLUTION BEFORE PROCEEDING WITH ANY CONSTRUCTION, FABRICATION, OR MATERIAL/EQUIPMENT PURCHASE WHICH WOULD BE UNUSABLE UNDER THOSE CIRCUMSTANCES.

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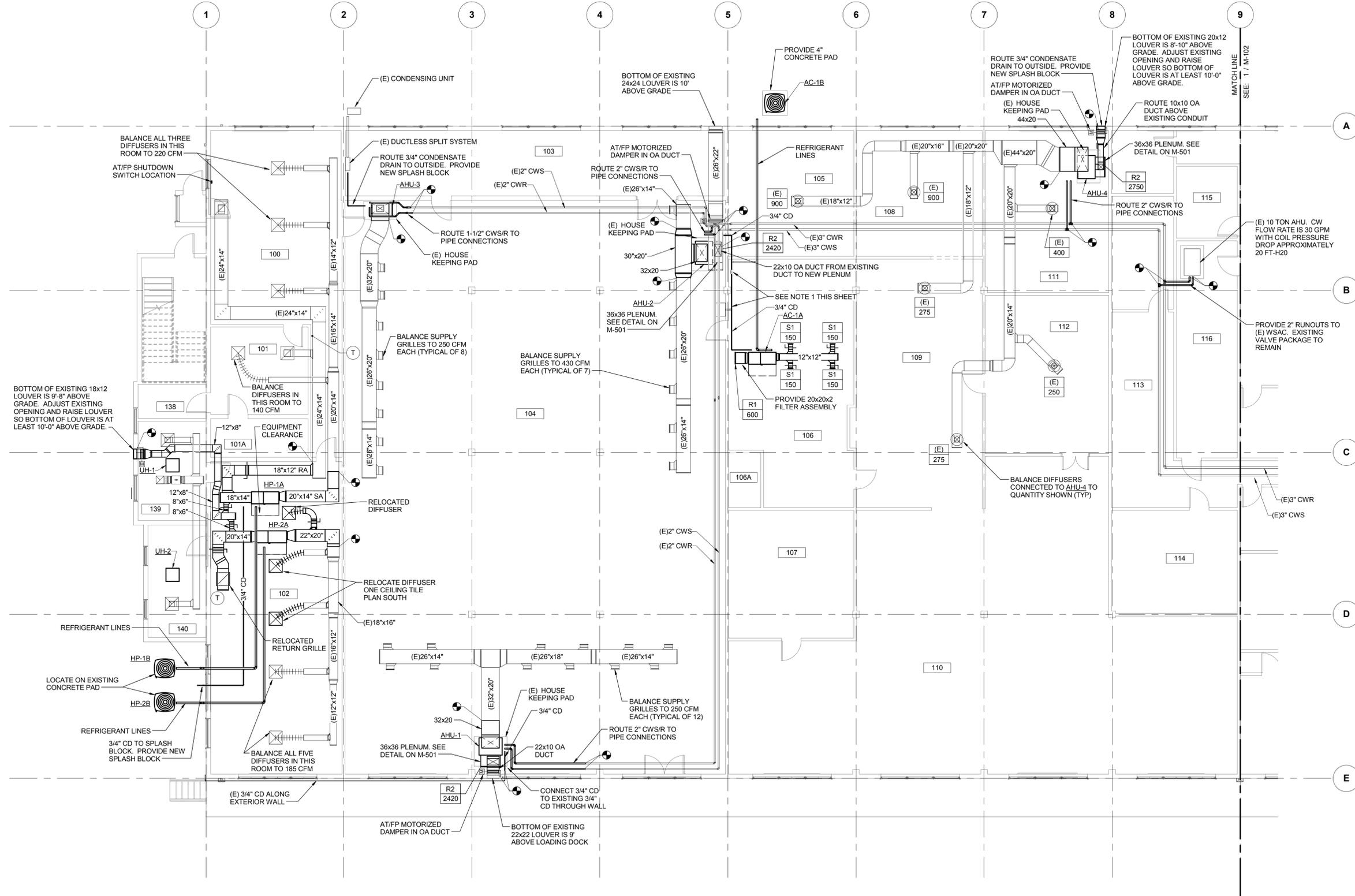
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APPROVED	
FOR COMMANDER NAVFAC/B.L.T.L.	
ACTIVITY	
SATISFACTORY TO DATE	
DES SWL DRW SWL CHK IM	
PROJECT MANAGER	
PT TECH BRANCH HEAD	
CHIEF ENGINEER	
NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON	
MARINE CORPS BASE QUANTICO	
QUANTICO, VA	
QUANTICO, VA	
MARINE CORPS BASE QUANTICO	
REPAIR BUILDING 1001 AND INTERIOR	
IMPROVEMENTS FOR DAPS	
MECHANICAL LEGEND AND ABBREVIATIONS	
SCALE: AS NOTED	
EPROJCT NO. X-XXX	
CONSTR. CONTR. NO. N40080-15-D-0452	
NAVFAC DRAWING NO. 3190224	
SHEET 19 OF 34	
M-001	
DRAWING REVISION: 10 MAY 2014	

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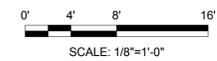
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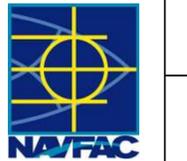


PLAN NORTH
 1 HVAC PLAN - AREA A
 SCALE: 1/8" = 1'-0"

- NOTES:
- CLEAN EXISTING TO REMAIN 2" SANITARY DRAIN LOCATED ALONG WALL 8" AFF TO ENSURE PROPER DRAINAGE OF CONDENSATE. PROVIDE HUB DRAIN WITH TRAP GUARD FOR CONDENSATE DISPOSAL FOR AHU-2 AND AC-1A.
 - SEE DETAIL ON M-501 FOR AHU DUCT CONNECTION DETAIL.
 - PAINT NEW DUCTWORK AND DUCT INSULATION TO MATCH EXISTING DUCTWORK.



DATE	APP'R
DESCRIPTION	SWR



APPROVED
 FOR COMMANDER NAFAC / B.L.T.L.
 ACTIVITY

DES	SWL	DRW	SWL	CHK	IM
PROJECT MANAGER					
IPT TECH. BRANCH HEAD					
CHIEF ENGINEER					

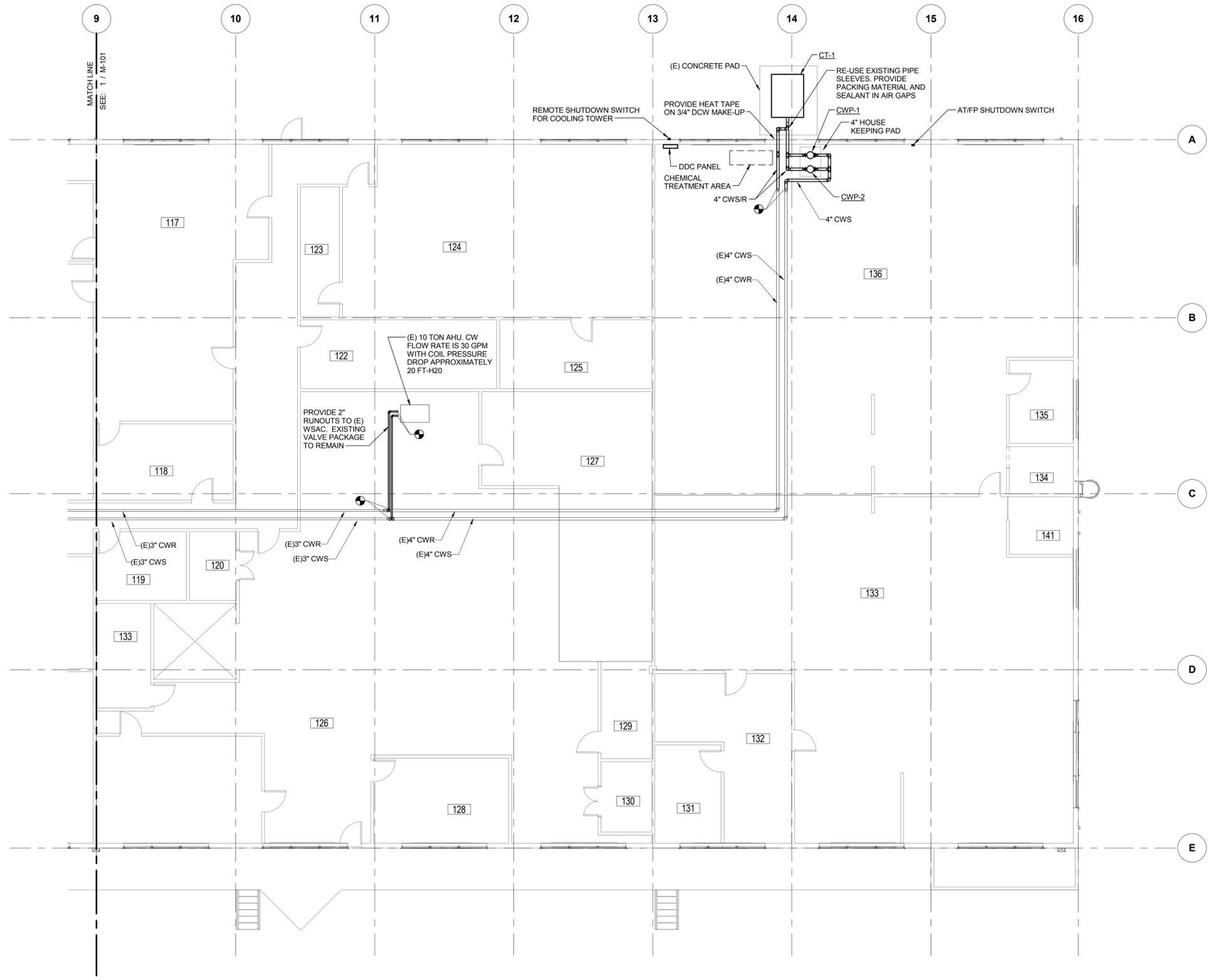
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 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
 MARINE CORPS BASE QUANTICO
 QUANTICO, VA
 REPAIR BUILDING 1001 AND INTERIOR
 IMPROVEMENTS FOR DAPS
 HVAC PLAN - AREA A

SCALE:	AS NOTED
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CONSTR. CONTR. NO.:	N40080-15-D-0452
NAFAC DRAWING NO.:	3190227
SHEET:	22 OF 34
M-101	

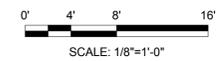
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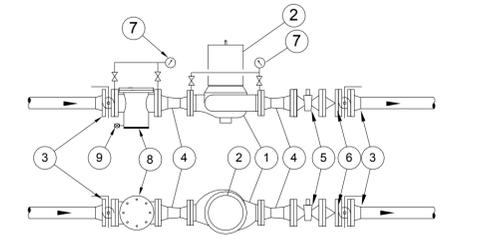
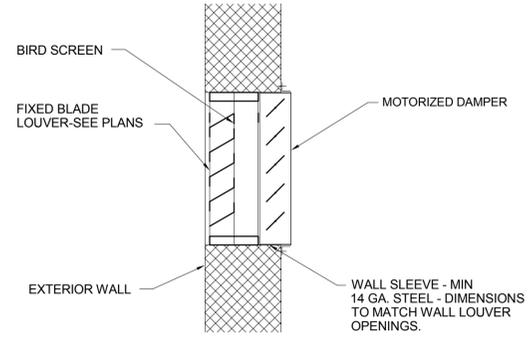
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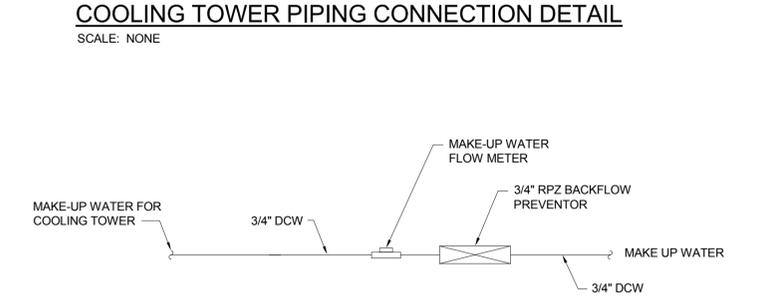
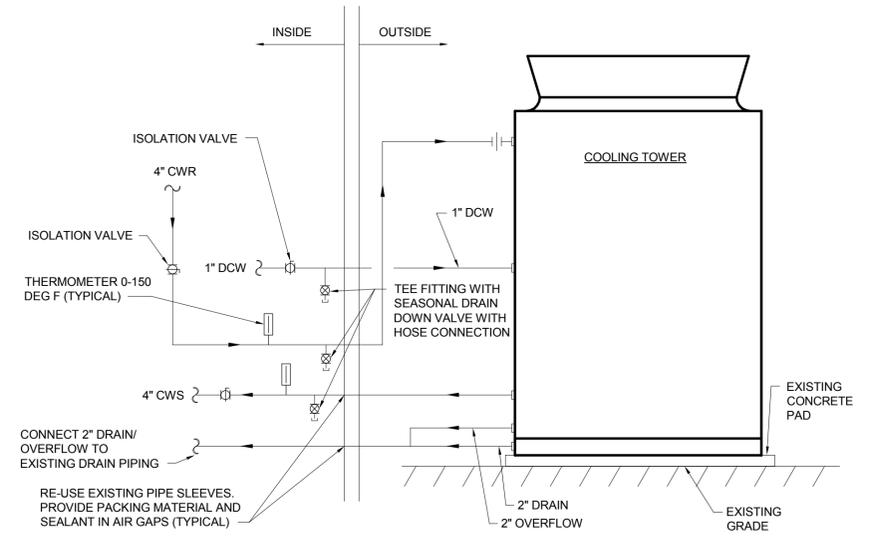
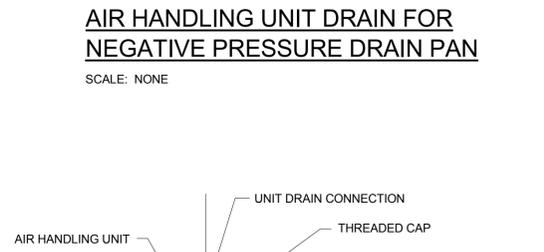
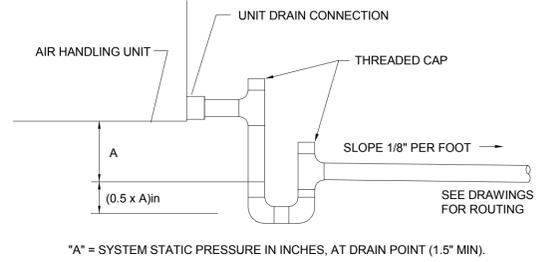
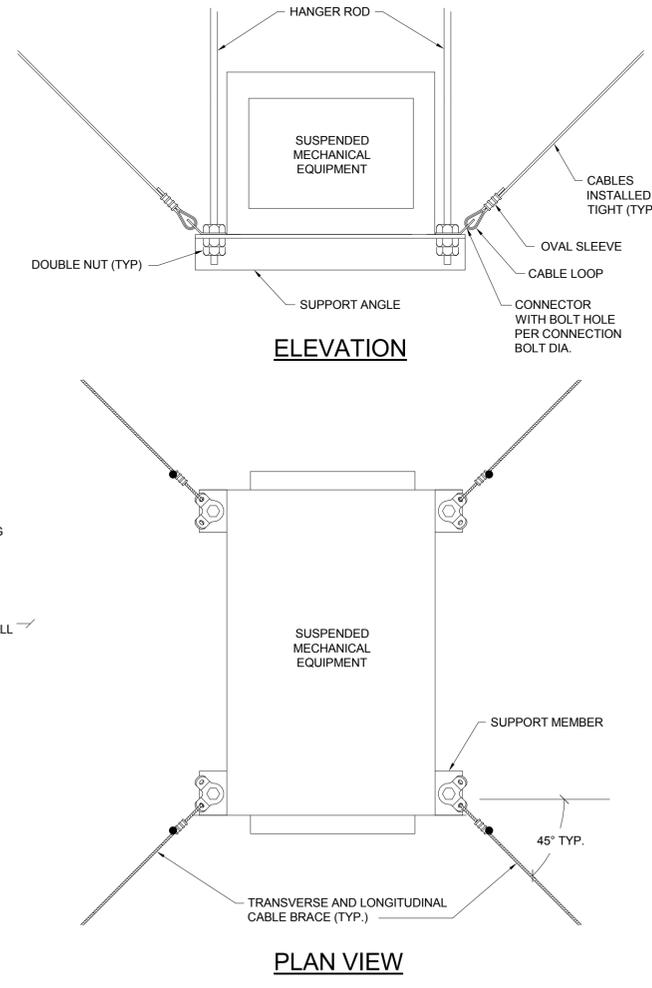
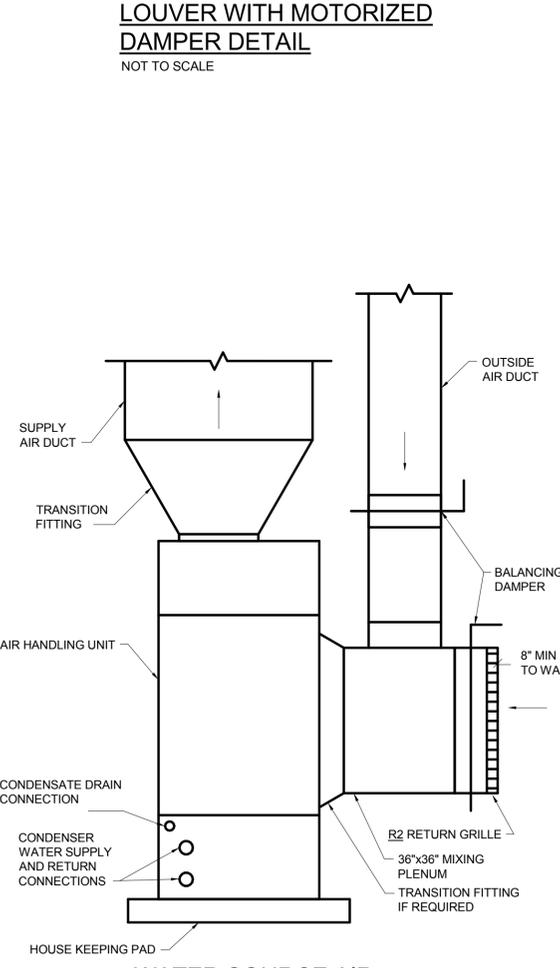
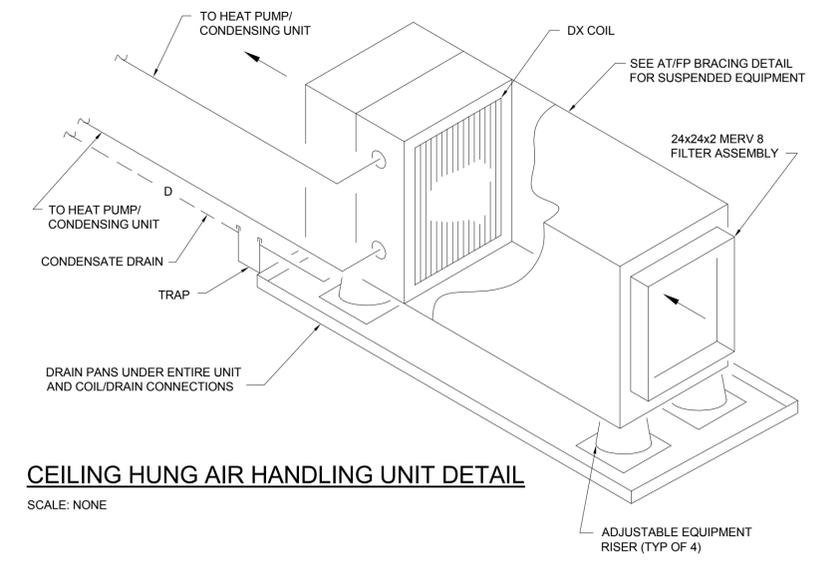
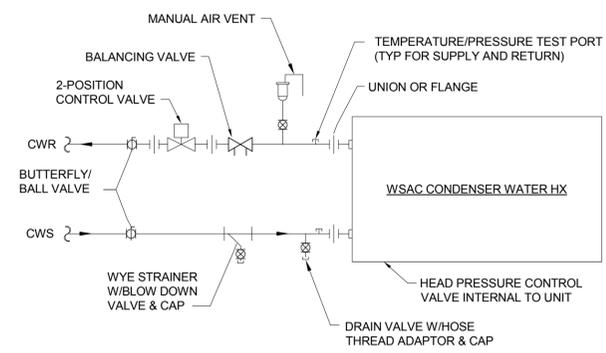
PLAN NORTH
 1 HVAC PLAN - AREA B
 SCALE: 1/8" = 1'-0"



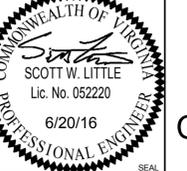
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APPROVED	
FOR COMMANDER NAVFAC / B.L.T.L.	
ACTIVITY	
SATISFACTORY TO DATE	
DES	SWL
DRW	SWL
CHK	IM
PROJECT MANAGER	
IPT TECH. BRANCH HEAD	
CHIEF ENGINEER	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON MARINE CORPS BASE QUANTICO QUANTICO, VA MARINE CORPS BASE QUANTICO QUANTICO, VA REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS HVAC PLAN - AREA B	
SCALE:	AS NOTED
PROJECT NO.:	X-XXX
CONSTR. CONTR. NO.:	N40080-15-D-0452
NAVFAC DRAWING NO.:	3190228
SHEET:	23 OF 34
M-102	
DRAWING REVISION: 10 MAY 2014	



- IN-LINE CIRCULATOR PUMP**
SCALE: NONE
- 1. IN-LINE CIRCULATOR PUMP
 - 2. MOTOR
 - 3. BUTTERFLY VALVE (BALL VALVE 2" OR SMALLER)
 - 4. CONCENTRIC REDUCER
 - 5. BALANCING VALVE
 - 6. SPRING CHECK VALVE
 - 7. PRESSURE GAUGES
 - 8. BASKET-TYPE STRAINER
 - 9. GATE VALVE WITH NIPPLE AND CAP
- NOTE:
1. PROVIDE A SECTION OF STRAIGHT PIPE WITH A LENGTH OF 5 TIMES ITS DIAMETER BETWEEN THE SUCTION SIDE OF THE PUMP AND THE FIRST ELBOW.
2. ALL VALVES, STRAINERS, FITTINGS ETC. SHALL BE FULL LINE SIZE.
3. SUPPORT PIPING FROM FLOOR. SUPPORT PUMP PER MANUFACTURER INSTRUCTIONS.



DATE	APPR
DESCRIPTION	SWR



WileyWilson | BURNS & MCDONNELL
JOINT VENTURE

APPROVED	AE INFO
FOR COMMANDER NAVFAC / B.L.T.L.	
ACTIVITY	
SATISFACTORY TO DATE	
DES SWR DRW SWR CHK IM	
PROJECT MANAGER	
IP/T TECH BRANCH HEAD	
CHIEF ENGINEER	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON QUANTICO, VA
MARINE CORPS BASE QUANTICO QUANTICO, VA
REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS
DETAILS

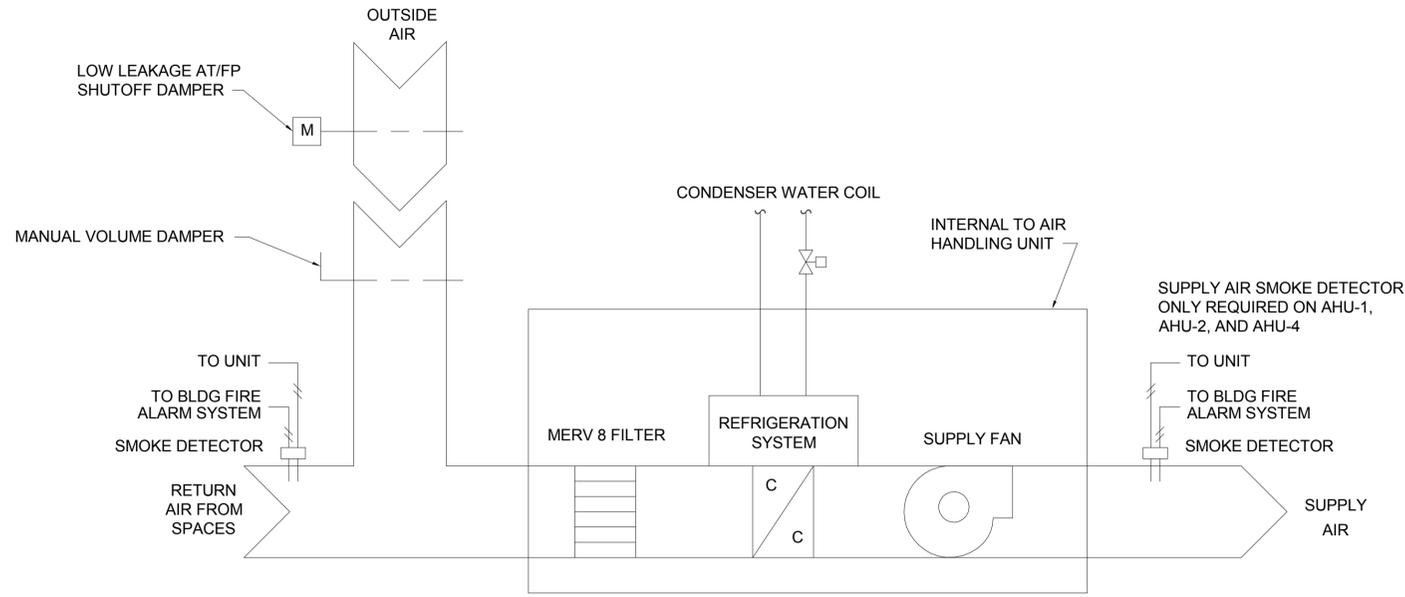
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NAVFAC DRAWING NO.:	3190229
SHEET:	24 OF 34
M-501	

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WATER SOURCE AIR CONDITIONER CONTROL DIAGRAM

SCALE: NONE

NOTE:

- AHU-3 DOES NOT HAVE AN OUTSIDE AIR CONNECTION.
- RETURN AIR SMOKE DETECTOR ONLY REQUIRED ON AHU-4

SEQUENCE OF OPERATION:

DURING THE OCCUPIED MODE, THE WATER SOURCE AIR CONDITIONER (WSAC) FAN SHALL RUN CONTINUOUSLY. ON A CALL FOR COOLING, THE 2-WAY VALVE SHALL OPEN TO ALLOW CONDENSER WATER FLOW THROUGH THE UNIT AND THE COMPRESSOR SHALL TURN ON. UPON DEACTIVATION OF THE COMPRESSOR, THE 2-WAY VALVE SHALL CLOSE.

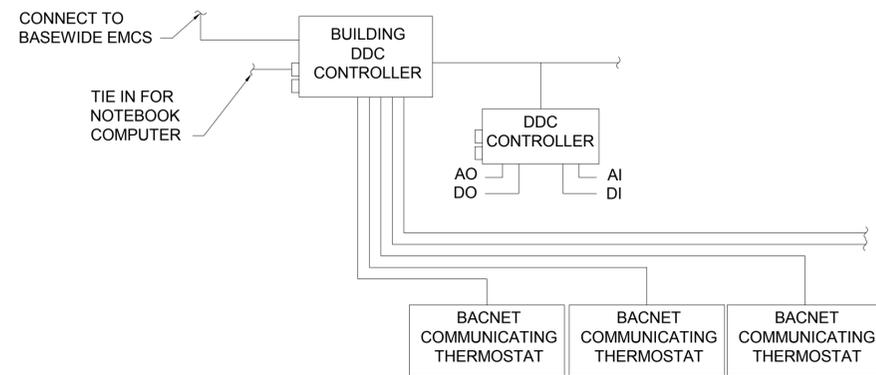
PROVIDE BACNET COMMUNICATING THERMOSTAT WITH 7 DAY PROGRAMMING TO ALLOW NIGHT/WEEKEND SET-BACK AND COMMUNICATE ALL STANDARD MANUFACTURER'S ALARMS TO THE DDC.

THE OUTDOOR AIR MOTORIZED DAMPER SHALL BE OPENED DURING OCCUPIED HOURS AND CLOSED DURING UNOCCUPIED HOURS. THIS DAMPER SHALL ALSO OPERATE AS THE AT/FP SHUTOFF DAMPER. UPON ACTIVATION OF THE AT/FP SHUTOFF SWITCH, THE HEAT PUMP SHALL BE DISABLED AND THE DAMPER CLOSED.

HEATING IN AREAS SERVED BY WSAC'S IS PERFORMED BY EXISTING STEAM RADIATORS. THE WSAC FANS MUST PROVIDE VENTILATION DURING THE HEATING SEASON.

UNIT SHALL SHUTDOWN UPON DETECTION OF SMOKE.

COORDINATE WITH CONTRACTING OFFICER FOR THE OCCUPANCY SCHEDULE.



DDC NETWORK ARCHITECTURE DIAGRAM

SCALE: NONE

POINTS LIST

POINT DESCRIPTION	ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT	COMM POINT	DISPLAY	GRAPHICS
CONDENSER WATER SYSTEM							
CWP-1 VFD SPEED CONTROL	-	X	-	-	-	-	-
CWP-1 VFD ACTUAL SPEED	X	-	-	-	-	X	-
CWP-1 VFD ENABLE	-	-	-	X	-	-	-
CWP-1 VFD STATUS	-	-	X	-	-	X	-
CWP-1 HOURS OF OPERATION	-	-	-	-	-	X	-
CWP-1 ALARM	-	-	-	-	-	X	-
CWP-2 VFD SPEED CONTROL	-	X	-	-	-	-	-
CWP-2 VFD ACTUAL SPEED	X	-	-	-	-	X	-
CWP-2 VFD ENABLE	-	-	-	X	-	-	-
CWP-2 VFD STATUS	-	-	X	-	-	X	-
CWP-2 HOURS OF OPERATION	-	-	-	-	-	X	-
CWP-2 ALARM	-	-	-	-	-	X	-
CT-1 VFD SPEED CONTROL	-	X	-	-	-	-	-
CT-1 VFD ACTUAL SPEED	X	-	-	-	-	X	-
CT-1 VFD ENABLE	-	-	-	X	-	-	-
CT-1 VFD STATUS	-	-	X	-	-	-	-
CT-1 HOURS OF OPERATION	-	-	-	-	-	-	-
CT-1 ALARM	-	-	-	-	-	X	-
CT-1 HIGH WATER ALARM	-	-	-	-	-	X	-
CT-1 LOW WATER ALARM	-	-	-	-	-	X	-
CT-1 VIBRATION SWITCH	-	-	X	-	-	-	-
CT-1 VIBRATION SWITCH ALARM	-	-	-	-	-	X	-
CT-1 REMOTE SHUTDOWN SWITCH	-	-	X	-	-	-	-
CT-1 REMOTE SHUTDOWN ALARM	-	-	-	-	-	X	-
CT-1 BASIN TEMPERATURE	X	-	-	-	-	-	X
CT-1 BASIN HEATER	-	-	-	X	-	X	-
CONDENSER WATER SUPPLY TEMPERATURE (TS-1)	X	-	-	-	-	-	X
CONDENSER WATER SUPPLY TEMPERATURE ALARM	-	-	-	-	-	X	-
CONDENSER WATER RETURN TEMPERATURE (TS-2)	X	-	-	-	-	-	X
CONDENSER WATER RETURN TEMPERATURE ALARM	-	-	-	-	-	X	-
MAKE UP WATER METER	X	-	-	-	-	X	-
SYSTEM DIFFERENTIAL PRESSURE SENSOR (DP-1)	X	-	-	-	-	-	X
OUTSIDE AIR TEMPERATURE	X	-	-	-	-	X	-
OUTSIDE AIR HUMIDITY	X	-	-	-	-	X	-
HP-1	-	-	-	-	X	-	-
HP-2	-	-	-	-	X	-	-
AC-1	-	-	-	-	X	-	-
AHU-1	-	-	-	-	X	-	-
AHU-2	-	-	-	-	X	-	-
AHU-3	-	-	-	-	X	-	-
AHU-4	-	-	-	-	X	-	-
ATFP CONTROL							
ATFP SHUTOFF SWITCH 1	-	-	X	-	-	-	-
ATFP SHUTOFF SWITCH 2	-	-	X	-	-	-	-
FIRE PROTECTION CONTROLS							
DUCT SMOKE DETECTOR 1 (AHU-1 SUPPLY DUCT)	-	-	X	-	-	-	-
DUCT SMOKE DETECTOR 1 (AHU-2 SUPPLY DUCT)	-	-	X	-	-	-	-
DUCT SMOKE DETECTOR 1 (AHU-4 SUPPLY DUCT)	-	-	X	-	-	-	-
DUCT SMOKE DETECTOR 1 (AHU-4 RETURN DUCT)	-	-	X	-	-	-	-

AT/FP EMERGENCY SHUTOFF SEQUENCE

UPON ACTIVATION OF THE AT/FP SHUTOFF SWITCH, THE EQUIPMENT SHALL SHUT DOWN AND THE MOTORIZED DAMPERS AT EACH INTAKE AND RELIEF SHALL CLOSE. SEE PLANS FOR AT/FP SHUTOFF SWITCH LOCATION.

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APPROVED

FOR COMMANDER NAVFAC/B.L.T.L.

ACTIVITY

SATISFACTORY TO DATE

DES SWL DRW SWL CHK IM

PROJECT MANAGER

IP/T TECH BRANCH HEAD

CHIEF ENGINEER

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
MARINE CORPS BASE QUANTICO
QUANTICO, VA

REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS CONTROLS

SCALE: AS NOTED

EPROJECT NO. X-XXX

CONSTR. CONTR. NO. N40080-15-D-0452

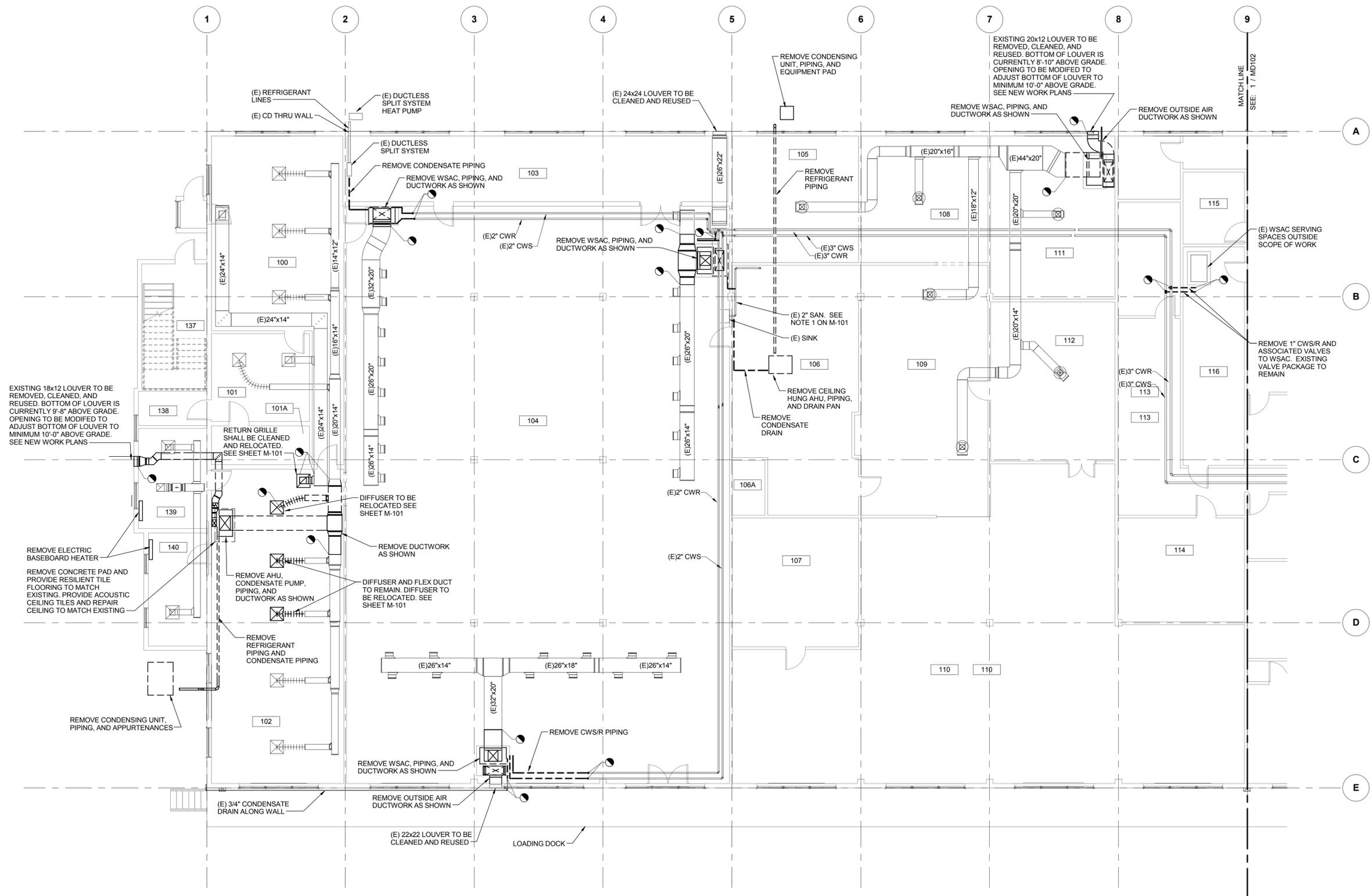
NAVFAC DRAWING NO. 3190232

SHEET 27 OF 34

M-702

DRAWING REVISION: 10 MAY 2014

REV DATE: 6/16/2016 2:22:32 PM



EXISTING 18x12 LOUVER TO BE REMOVED, CLEANED, AND REUSED. BOTTOM OF LOUVER IS CURRENTLY 9'-8" ABOVE GRADE. OPENING TO BE MODIFIED TO ADJUST BOTTOM OF LOUVER TO MINIMUM 10'-0" ABOVE GRADE. SEE NEW WORK PLANS

REMOVE ELECTRIC BASEBOARD HEATER
REMOVE CONCRETE PAD AND PROVIDE RESILIENT TILE FLOORING TO MATCH EXISTING. PROVIDE ACOUSTIC CEILING TILES AND REPAIR CEILING TO MATCH EXISTING

REMOVE CONDENSING UNIT, PIPING, AND APPURTENANCES

REMOVE AHU, CONDENSATE PUMP, PIPING, AND DUCTWORK AS SHOWN

REMOVE WSAC, PIPING, AND DUCTWORK AS SHOWN

(E) 3/4" CONDENSATE DRAIN ALONG WALL

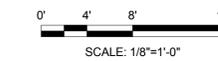
(E) 22x22 LOUVER TO BE CLEANED AND REUSED

LOADING DOCK



HVAC DEMOLITION PLAN - AREA A

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



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REV DATE: 6/16/2016 2:22:34 PM

DATE	DESCRIPTION	BY



WileyWilson | Burns McDonnell
JOINT VENTURE

APPROVED	A/E INFO					
FOR COMMANDER NAFAC / B.L.T.L.	ACTIVITY					
SATISFACTORY TO DATE	DES	SWL	DRW	SWL	CHK	IM
PROJECT MANAGER	IPT TECH BRANCH HEAD					
CHIEF ENGINEER						

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS
HVAC DEMOLITION PLAN - AREA A

SCALE:	AS NOTED
EPROJCT NO.	X-XXX
CONSTR. CONTR. NO.	N40080-15-D-0452
NAFAC DRAWING NO.	3190225
SHEET	20 OF 34
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ELECTRICAL LEGEND

-  RACEWAY INSTALLED SURFACE MOUNTED, WITH PHASE, NEUTRAL AND GROUND CONDUCTOR UNLESS NOTED OTHERWISE. TIC MARKS INDICATE WIRES IN RACEWAY.
-  480 VOLT BRANCH CIRCUIT PANELBOARD (EXISTING UNO) SIZE AND DESCRIPTION AS SCHEDULED. TOP: +6'-0" AFF.
-  208 VOLT BRANCH CIRCUIT PANELBOARD (EXISTING UNO), SIZE AND DESCRIPTION AS SCHEDULED. TOP: +6'-0" AFF.
-  DRY TYPE SECONDARY TRANSFORMER. SIZE AS INDICATED.
-  DISCONNECT SWITCH, POLES, AMPS, VOLTS, FUSED OR NON-FUSED AND ENCLOSURE TYPE PER NEC. TOP: +5'-0" AFF.
-  DISCONNECT SWITCH, POLES, AMPS, VOLTS, FUSED WITH NEMA 1 ENCLOSURE INDOORS AND NEMA 4 ENCLOSURE OUTDOORS. TOP: +5'-0" AFF. PROVIDE FUSES PER MANUFACTURERS RECOMMENDATIONS FOR MECHANICAL AND PLUMBING EQUIPMENT, COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS.
-  STARTER/DISCONNECT SWITCH, POLES, AMPS, VOLTS, FUSED WITH NEMA 1 ENCLOSURE INDOORS AND NEMA 4 ENCLOSURE OUTDOORS. TOP: +5'-0" AFF. PROVIDE FUSES PER MANUFACTURERS RECOMMENDATIONS FOR MECHANICAL AND PLUMBING EQUIPMENT, COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS.
-  120 VOLT, 20 AMP, 3-WIRE, NEMA 5-20R DUPLEX GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE. MOUNTING HEIGHT: CENTER +18" AFF UNO. PROVIDE WEATHERPROOF COVERS FOR EXTERIOR APPLICATIONS.
-  SWITCH, SINGLE POLE

ELECTRICAL ABBREVIATIONS

A	AMPERES
AF	AMPERE FRAME OR AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CKT	CIRCUIT
BKR	CIRCUIT BREAKER
DISC SW	DISCONNECT SWITCH
DN	DOWN
DVP	DOMINION VIRGINIA POWER
E OR EXIST.	EXISTING
EA	EACH
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
F	FLUSH MOUNTED IN WALL
FAFP	FIRE ALARM GRAPHIC ANNUNCIATOR
FAA	FIRE ALARM CONTROL PANEL
FS	FLOW SWITCH
FUS	FUSE
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUND
GFI	GROUND FAULT INTERRUPTING
GP	GENERAL PURPOSE
JB	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KW	KILOWATTS
M	MAIN OR METER
MB	MAIN CIRCUIT BREAKER
MOCB	MOLDED CASE CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MH	METAL HAULDE, MANHOLE, OR MOUNTING HEIGHT TO CENTER OF DEVICE
MLO	MAIN LUUS ONLY
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NETA	NATIONAL ELECTRICAL TESTING ASSOCIATION
NF	NON-FUSED
PBX	PULLBOX
PH	PHASE
PNL	PANEL
PWR	POWER
RCPT	RECEPTACLE
STCB	SHUNT TRIP CIRCUIT BREAKER
SW	SWITCH
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WIRE OR WATT
WP	WEATHERPROOF

SYM	DESCRIPTION	DATE	APPR



BRUNNEN
MECHANICAL
JOINT VENTURE

APPROVED	AE/ENRGO
FOR COMMANDER/NAVFAC/BLTL	
ACTIVITY	
DATE	
DESIGN	
PROJECT MANAGER	
TECHNICAL BRANCH/HEAD	
OTHER ENGINEER	

DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON	QUANTICO, VA
MARINE CORPS BASE QUANTICO	QUANTICO, VA
MARINE CORPS BASE QUANTICO	QUANTICO, VA
REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS ELECTRICAL LEGEND AND ABBREVIATIONS	

SCALE:	AS NOTED
ENGINEER NO.	X-XXX
CONSR. CONTR. NO.	N40086-15-D-0452
NAVFAC DRAWING NO.	3190234
SHEET	29 OF 34
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ELECTRICAL DEMOLITION PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

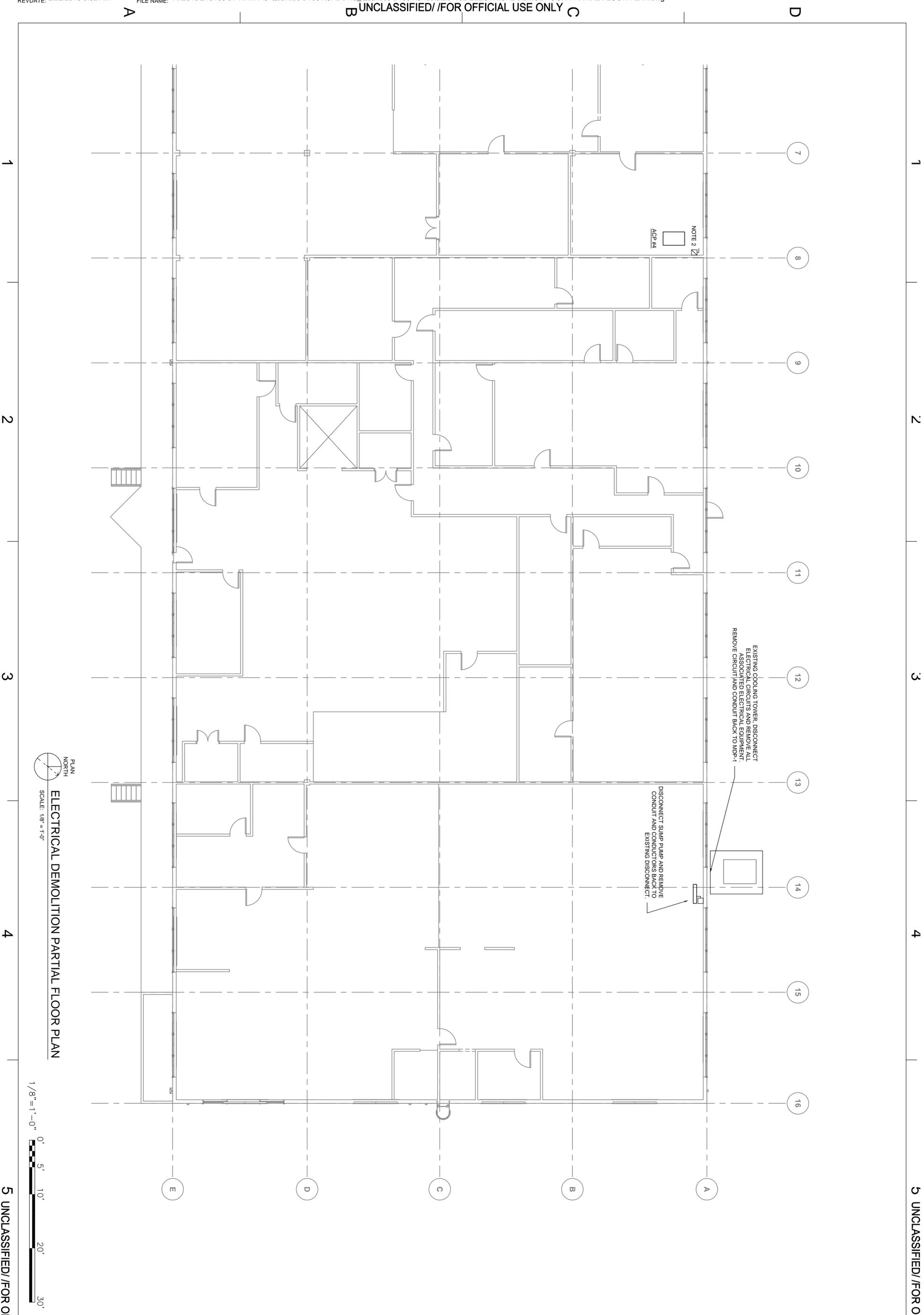


<p>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE QUANTICO MARINE CORPS BASE QUANTICO</p>		<p>NAVAL FACILITIES ENGINEERING COMMAND QUANTICO, VA QUANTICO, VA</p>		<p>APPROVED: AEM/NO</p>	
<p>REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS ELECTRICAL DEMOLITION PARTIAL FLOOR PLAN</p>		<p>FOR COMMANDER WAVEC/BLTL</p>		<p>ACTIVITY</p>	
<p>SCALE: AS NOTED</p>		<p>DATE: 04/15/16</p>		<p>PROJECT MANAGER: BMY</p>	
<p>ENGINEER: X-XXX</p>		<p>DATE: 04/15/16</p>		<p>PROJECT MANAGER: BMY</p>	
<p>CONTR. CONTR. NO. N40086-15-D-0452</p>		<p>DATE: 04/15/16</p>		<p>PROJECT MANAGER: BMY</p>	
<p>NAVFAC DRAWING NO. 3190235</p>		<p>DATE: 04/15/16</p>		<p>PROJECT MANAGER: BMY</p>	
<p>SHEET 30 OF 34</p>		<p>DATE: 04/15/16</p>		<p>PROJECT MANAGER: BMY</p>	
<p>ED-101</p>		<p>DATE: 04/15/16</p>		<p>PROJECT MANAGER: BMY</p>	

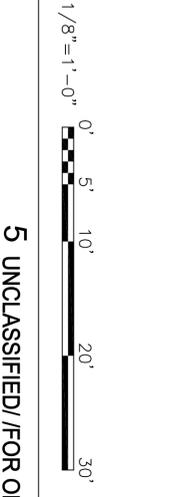
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PLAN NORTH
 SCALE: 1/8" = 1'-0"
ELECTRICAL DEMOLITION PARTIAL FLOOR PLAN

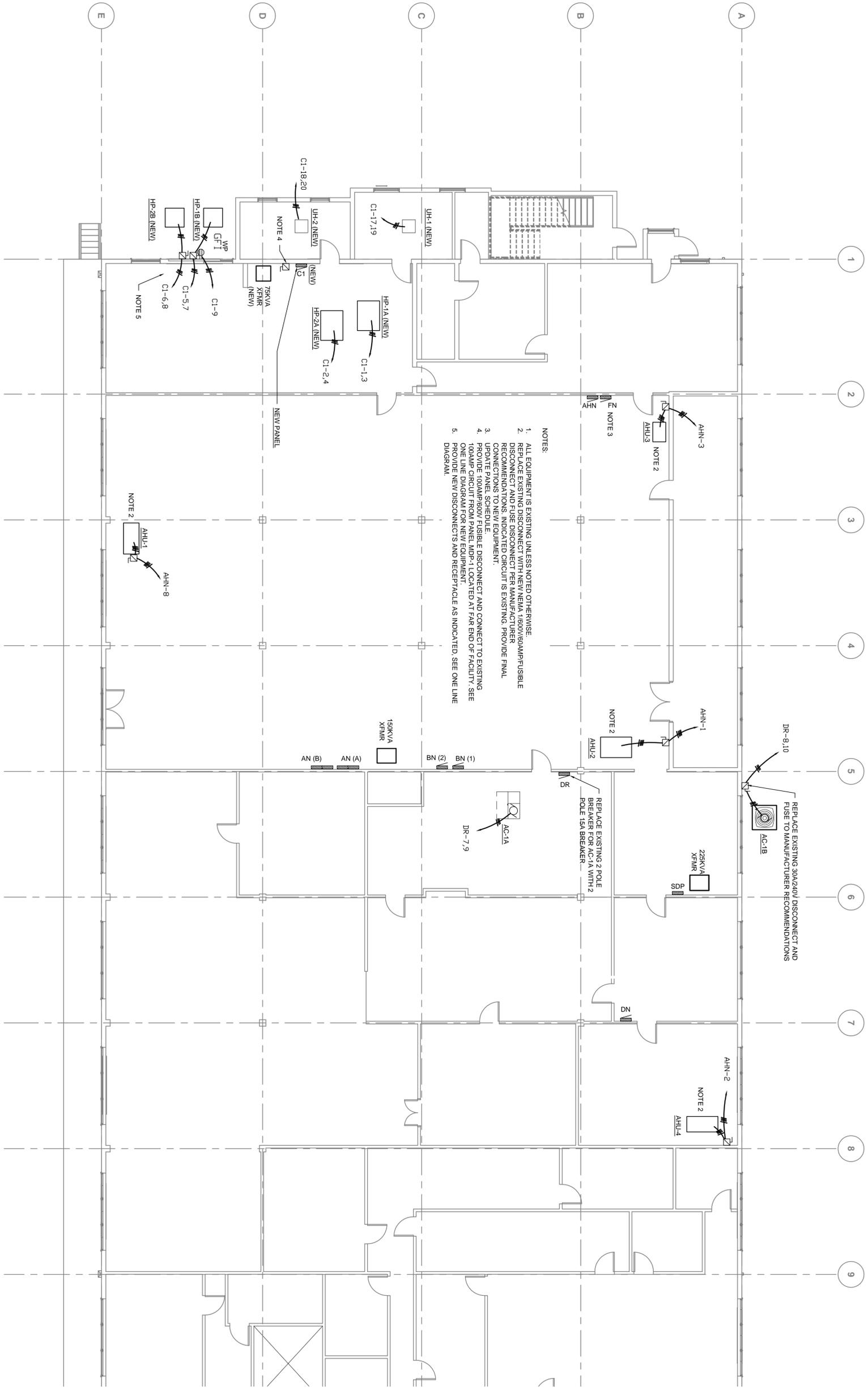


<p>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE QUANTICO QUANTICO, VA</p>	<p>NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON QUANTICO, VA</p>	<p>REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS ELECTRICAL DEMOLITION PARTIAL FLOOR PLAN</p>	<p>APPROVED: AEM/NGO</p> <p>FOR COMMANDER: WAFAC/BLTL</p> <p>ACTIVITY:</p>	<p>DATE: 04/15/16 DES. CHK: [Signature] PROJECT MANAGER: [Signature] IFT TECH. BRANCH/HEAD: [Signature] CLIENT: ENR/NSA/CSS</p>	<p>SCALE: AS NOTED</p> <p>ENR/NSA/CSS: X-XXX</p> <p>CONSTR. CONTR. NO.: N400086-15-D-0452</p> <p>NAVFAC DRAWING NO.: 3190236</p> <p>SHEET 31 OF 34</p> <p>ED-102</p>			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYM</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPR</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	SYM	DESCRIPTION	DATE	APPR																																								
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ELECTRICAL NEW WORK PARTIAL FLOOR PLAN

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



<p>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON MARINE CORPS BASE QUANTICO QUANTICO, VA</p> <p>REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS ELECTRICAL NEW WORK PARTIAL FLOOR PLAN</p>					
<p>APPROVED: AENRGO</p>	<p>FOR COMMANDER: WAVEC/BLTL</p>	<p>ACTIVITY:</p>	<p>SUBMITTER TO DATE:</p>	<p>DESIGN: DCH / DRY / DSH / CKM / BMY</p>	<p>PROJECT MANAGER:</p>
<p>DATE: 07-31-16</p>	<p>PROJECT MANAGER:</p>	<p>TECHNICAL BRANCH/HEAD:</p>	<p>OTHER ENGINEER:</p>	<p>SCALE: AS NOTED</p>	<p>ENGINEER NO: X-XXX</p>
<p>CONTR. CONTR. NO: N400086-15-D-0452</p>	<p>NAVFAC DRAWING NO: 3190237</p>	<p>SHEET: 32 OF 34</p>	<p>DATE: 07-31-16</p>	<p>SCALE: 1/8" = 1'-0"</p>	<p>PROJECT NO: X-XXX</p>

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PLAN NORTH
SCALE: 1/8" = 1'-0"

ELECTRICAL NEW WORK PARTIAL FLOOR PLAN



DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
MARINE CORPS BASE QUANTICO QUANTICO, VA
MARINE CORPS BASE QUANTICO QUANTICO, VA

REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS ELECTRICAL NEW WORK PARTIAL FLOOR PLAN

APPROVED	AE/INGO
FOR COMMANDER WAFAC/BLTL	
ACTIVITY	
SUBACTION TO DATE	
DES. CHG.	DRW. CHG.
PROJECT MANAGER	CHK. BMY
OFFICIAL BRANCH/HEAD	
CLIENT ENVOY/CH	

APPROVED

PROFESSIONAL SEAL

BRIAN W. YAKETI
Lic. No. 047903
20-MAY-16

WAFAC
JOINT VENTURE



SYM	DESCRIPTION	DATE	APPR

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ELECTRICAL C1 SCHEDULE

VOLTS/PHASE/WIRE:	PANEL SIZE:	MAIN TYPE & SIZE:	CABINET:	MIN SCC:	FED FROM:	
120V/208Y/3φ/4W	200 A	200 A MCB	----	22000	MDP-1	
CIRCUIT	AREA SERVED	TRIP	MD	PHASE LOAD VA	WIRE & CONDUIT SIZE	CIRCUIT NOTES
1,3	HP-1A	60	2	4160	A	
2,4	HP-2A	60	2	4160	B	
5,7	HP-1B	30	2	1872	0	
6,8	HP-2B	30	2	1872	0	
9	OUTSIDE RECP	20	1	180	0	
10	SPARE	20	1	0	0	
11	SPARE	20	1	0	0	
12	SPARE	20	1	0	0	
13	SPARE	20	1	0	0	
14	SPARE	20	1	0	0	
15	SPARE	20	1	0	0	
16	SPARE	20	1	0	0	
17,19	UH-1	20	2	1000	1000	
18,20	UH-2	20	2	1000	1000	
LDAD CATEGORY		CONN. LDAD	DEMAND FACTOR	EST. LOAD	PROVIDE 42 SPACE PANEL	
Equipment		0.0	1.00	0.0		
Heating		4.0	1.00	4.0		
Motors (largest)		13.8	1.00	13.8		
Motors (largest)		8.3	1.25	10.4		
Receptacles (0 - 10		0.2	1.00	0.2		
TOTAL		28.3KVA		30.4KVA		

ELECTRICAL CT-1 SCHEDULE

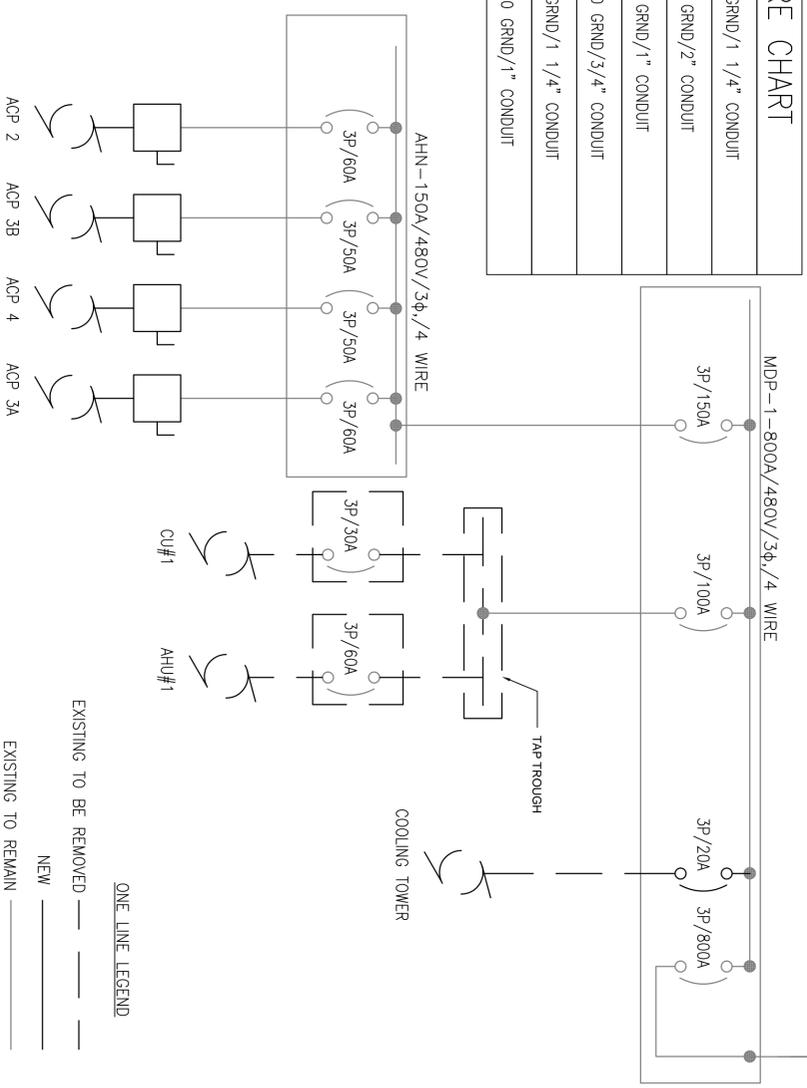
VOLTS/PHASE/WIRE:	PANEL SIZE:	MAIN TYPE & SIZE:	CABINET:	MIN SCC:	FED FROM:	
277V/480Y/3φ/4W	100 A	100 A MLD	----	22000	MDP-1	
CIRCUIT	AREA SERVED	TRIP	MD	PHASE LOAD VA	WIRE & CONDUIT SIZE	CIRCUIT NOTES
1,3,5	PANEL LCT via Transformer	25	3	1160	A	
2,4,6	COOLING TOWER	20	3	1400	B	
7,9,11	CWP-1	20	3	1800	1800	
8,10,12	CWP-2	20	3	1800	1800	
13,15,17	CT BASIN HEATER	20	3	1000	1000	
LDAD CATEGORY		CONN. LDAD	DEMAND FACTOR	EST. LOAD	PROVIDE 20.8 KVA	
Equipment		1.6	1.00	1.6		
Heating		3.0	1.00	3.0		
Motors (largest)		9.6	1.00	9.6		
Receptacles (0 - 10		5.4	1.25	6.8		
TOTAL		1.2	1.00	1.2		
TOTAL		20.8KVA		22.1KVA		

ELECTRICAL LCT SCHEDULE

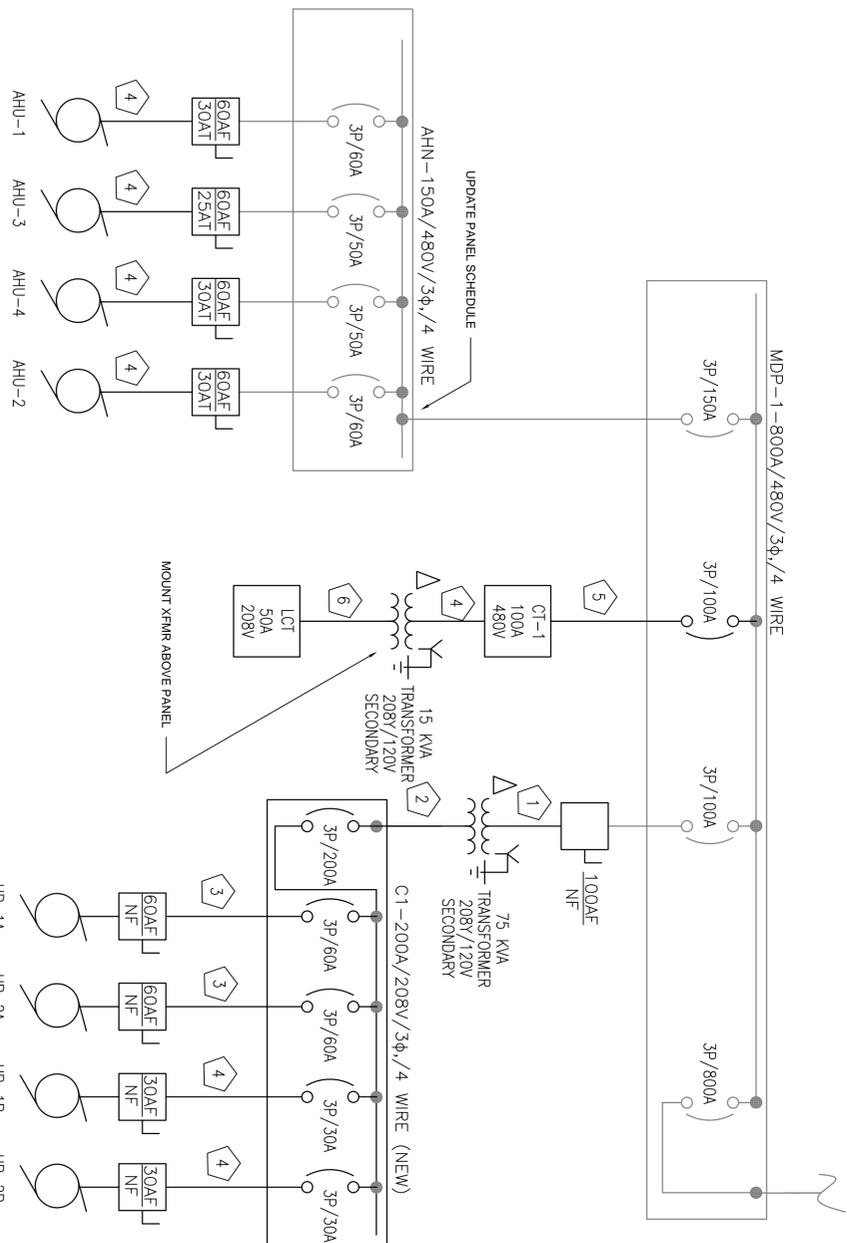
VOLTS/PHASE/WIRE:	PANEL SIZE:	MAIN TYPE & SIZE:	CABINET:	MIN SCC:	FED FROM:	
120V/208Y/3φ/4W	50 A	50 A MCB	----	10000	CT-1	
CIRCUIT	AREA SERVED	TRIP	MD	PHASE LOAD VA	WIRE & CONDUIT SIZE	CIRCUIT NOTES
1	CT RECP	20	1	360	A	
2	HVAC CONTROL PANEL	20	1	800	0	
3	RECP	20	1	0	0	
4	HEAT TAPE	20	1	0	0	
5	SPARE	20	1	0	0	
6	SPARE	20	1	0	0	
LDAD CATEGORY		CONN. LDAD	DEMAND FACTOR	EST. LOAD	PROVIDE 16 SPACE PANEL	
Equipment		1.6	1.00	1.6		
Receptacles (0 - 10		1.2	1.00	1.2		
TOTAL		2.8KVA		2.8KVA		

WIRE CHART

1	3-#3 & #8 GRND/1 1/4" CONDUIT
2	4-3/10 & #6 GRND/2" CONDUIT
3	3-#6 & #10 GRND/1" CONDUIT
4	3-#10 & #10 GRND/3/4" CONDUIT
5	4-#9 & #8 GRND/1 1/4" CONDUIT
6	4-#8 & #10 GRND/1" CONDUIT

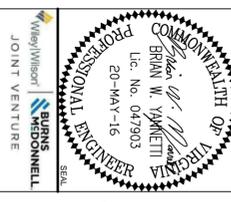


BLDG. 1001 DEMOLITION ONE LINE DIAGRAM



BLDG. 1001 NEW WORK ONE LINE DIAGRAM

SYM	DESCRIPTION	DATE	APPR



APPROVED	AE/ENG
DESIGN	DESIGN
PROJECT MANAGER	CHK. BMY
PROJECT BRANCH/HEAD	
OTHER EVALUATION	

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
 MARINE CORPS BASE QUANTICO
 QUANTICO, VA

REPAIR BUILDING 1001 AND INTERIOR IMPROVEMENTS FOR DAPS
 ELECTRICAL ONE LINE DIAGRAM AND SCHEDULES

SCALE	AS NOTED
ENROLLMENT NO.	X-XXX
CONTR. CONTR. NO.	M40086-15-D-0452
NAVFAC DRAWING NO.	3190239
SHEET	34 OF 34
E-601	

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