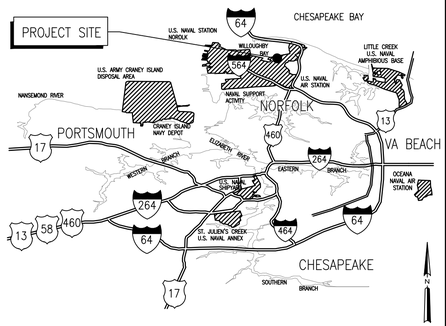
SP-364 REPLACE UNDERGROUND CABLING IN SP AREA

NAVAL STATION NORFOLK - NORFOLK, VIRGINIA

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC

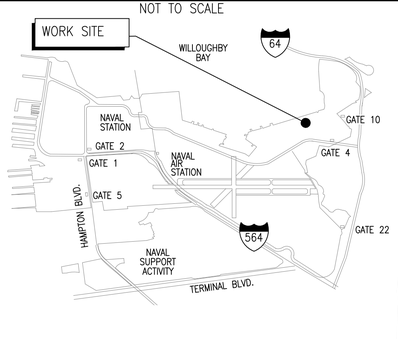
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
NORFOLK, VIRGINIA

VICINITY MAP



LOCATION MAP

NOT TO SCALE



SHEET LIST TABLE

SHEET	SHEET NUMBER	NAVFAC DRAWING	SHEET TITLE
		GENERAL	
1	G-001	12,944,647	COVER SHEET
		CIVIL	
2	C-001	12,944,648	ABBREVIATIONS, LEGENDS, AND GENERAL NOTES
3	CD101	12,944,649	EXISTING CONDITIONS & DEMOLITION PLAN
4	CD102	12,944,650	EXISTING CONDITIONS & DEMOLITION PLAN
5	CD103	12,944,651	EXISTING CONDITIONS & DEMOLITION PLAN
6	CD104	12,944,652	EXISTING CONDITIONS & DEMOLITION PLAN
7	CS101	12,944,653	CIVIL SITE PLAN
8	CS102	12,944,654	CIVIL SITE PLAN
9	CS1031	12,944,655	CIVIL SITE PLAN
10	CS104	12,944,656	CIVIL SITE PLAN
11	C-501	12,944,657	CIVIL SITE DETAILS
		STRUCTURAL	
12	S-001	12,944,658	STRUCTURAL SYMBOLS, LEGENDS, ABBREVIATIONS, AND NOTES
13	S501	12,944,659	PAD DETAILS FOR ELECTRICAL JUNCTION BOX
		ELECTRICAL	
14	ES001	12,944,660	ELECTRICAL, SYMBOLS, LEGEND, ABBREVIATIONS, AND NOTES
15	ED101	12,944,661	ELECTRICAL SITE PLAN – DEMOLITION
16	ED102	12,944,662	ELECTRICAL SITE PLAN – DEMOLITION
17	ED103	12,944,663	ELECTRICAL SITE PLAN – DEMOLITION
18	ED104	12,944,664	ELECTRICAL SITE PLAN – DEMOLITION
19	ED501	12,944,665	EXISTING MANHOLE DETAILS – DEMOLITION
20	ED502	12,944,666	EXISTING MANHOLE DETAILS – DEMOLITION
21	ED601	12,944,667	ONE LINE DIAGRAM – DEMOLITION
22	ED701	12,944,668	CABLE SCHEDULE – DEMOLITION
23	ES101	12,944,669	ELECTRICAL SITE PLAN
24	ES102	12,944,670	ELECTRICAL SITE PLAN

SHEET LIST TABLE

SHEET	SHEET NUMBER	NAVFAC DRAWING	SHEET TITLE
		ELECTRICAL	
25	ES103	12,944,671	ELECTRICAL SITE PLAN
26	ES104	12,944,672	ELECTRICAL SITE PLAN
27	ES501	12,944,673	MANHOLE DETAILS
28	ES502	12,944,674	MANHOLE DETAILS
29	ES503	12,944,675	TERMINATION CABINET DETAILS
30	ES504	12,944,676	ELECTRICAL DETAILS
31	ES601	12,944,677	ONE-LINE DIAGRAM
32	ES701	12,944,678	CABLE SCHEDULE

MARK | DESCRIPTION | DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES DNB | DRW DNB | CHK JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
NAVAL STATION - NORFOLK, VA
MIDLANT - ROICC NORFOLK
NAVAL STATION NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

COVER SHEET

SCALE: AS NOTED

EPROJECT NO.: 1806349

CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,647

SHEET 1 OF 32

G-001

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: P:\VA\NorfStationNorfolk\Sitework\Elec\Site\Elec\Dist\2024_1806349_REPLACE UNDERGROUND CABLING SWGR 111-41\8_Design\DWGS\Sheet\01_GEN\G-001 COVER SHEET PLOTTED: Thursday, May 14, 2026 - 11:33am USER: david.n.burnette
LAYOUT NAME: G-001 COVER SHEET.dwg

GENERAL NOTES:

1. VERIFY THE EXISTENCE AND LOCATION OF UTILITIES PRIOR TO EXCAVATION AND CONSTRUCTION WORK. NOTIFY THE CONTRACTING OFFICER WHERE CONFLICTS EXIST THAT WOULD ADVERSELY AFFECT WORK.
2. REPLACE WITH MATCHING MATERIALS PAVEMENT, DRIVEWAYS, WALKS, CURBS, LANDSCAPING, ETC., THAT MAY BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION AT CONTRACTOR'S EXPENSE.
3. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL SITE WORK INCLUDING DEMOLITION AND NEW UTILITY INSTALLATION.
4. UNLESS OTHERWISE NOTED, EXISTING UTILITIES MUST REMAIN IN PLACE. PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. HAND EXCAVATE WITHIN 2 FEET OF EXISTING UTILITIES. DAMAGE TO EXISTING UTILITIES (INCLUDING BUT NOT LIMITED TO WATER, SEWER, FUEL, ELECTRIC, TELEPHONE, AND STORM DRAINS) MUST BE REPAIRED TO THE SATISFACTION OF THE CONTRACTING OFFICER, AT NO ADDITIONAL COST TO THE GOVERNMENT.
5. DEPTH OF EXISTING UTILITIES, SUCH AS FUEL, WATER, ELECTRIC, TELECOMMUNICATIONS, AND FIBER OPTIC ARE BASED ON INDUSTRY STANDARDS. VERIFY THE DEPTH AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. IMMEDIATELY CONTACT THE CONTRACTING OFFICER IF EXISTING UTILITIES WILL CONFLICT WITH WORK.
6. PRIOR TO EXCAVATION, CONTACT MISS UTILITY OF VIRGINIA (TELEPHONE# 811) TO HAVE THE EXISTING UNDERGROUND LINES MARKED ON THE GROUND SURFACE IN THE AREAS OF CONSTRUCTION.
7. COMPLY WITH THE PROVISIONS OF THE "VIRGINIA UNDERGROUND UTILITY DAMAGE PREVENTION ACT" (SECTION 56-265.14 ET. SEQ., CODE OF VIRGINIA, 1950, AMENDED).
8. PROVIDE SMOOTH AND GRADUAL GRADE TRANSITIONS WITH NO SHARP OR ABRUPT CHANGES UNLESS OTHERWISE NOTED.
9. COORDINATE WITH THE CONTRACTING OFFICER FOR LAYDOWN AREAS PRIOR TO DELIVERY OF MATERIALS.
10. FIELD VERIFY EXISTING DIMENSIONS AND QUANTITIES PRIOR TO ORDERING MATERIALS OR BEGINNING WORK.
11. BEGIN EARTHWORK ACTIVITIES ONLY AFTER SOIL EROSION DEVICES ARE IN-PLACE. SOIL EROSION DEVICES MUST INCLUDE, BUT ARE NOT LIMITED TO, INLET PROTECTION. ENSURE THAT NO OFFSITE SEDIMENT LOSS OCCURS.
12. NEW WORK WILL BE ACCOMPLISHED IN AND AROUND AREAS WHICH WILL REMAIN OPERATIONAL. ACCORDINGLY, AVOID INTERFERENCE WITH THE OPERATIONAL WORK ROUTINE.
13. PROPERLY STOCKPILE SOIL THAT IS EXCAVATED AND REUSED TO PREVENT OFFSITE SEDIMENT LOSS.
14. ANY EXCAVATED SOIL SHIPPED OFFSITE MUST BE MANIFESTED AND DISPOSED OF AT A PERMITTED FACILITY.
15. ALL LAND DISTURBANCES MUST BE GRADED AND A LANDSCAPE PATCH TO A WIDTH OF AT LEAST 5 FEET BEYOND THE DISTURBANCE. REFER TO SHEET C-501 FOR DETAIL.

CIVIL ABBREVIATIONS:

A/C	AIR CONDITIONING UNIT
APPROX	APPROXIMATE
ATFP	ANTI-TERRORISM FORCE PROTECTION
BLDG	BUILDING
BOL	BOLLARD
BW	BOTTOM OF WALL
CO	CLEANOUT
CONC	CONCRETE
DEMO	DEMOLITION
DI	DROP INLET
DIP	DUCTILE IRON PIPE
EJB	ELECTRIC JUNCTION BOX
EMH	ELECTRIC MANHOLE
EXIST	EXISTING
EP	EDGE OF ASPHALT PAVEMENT
FDC	FIRE DEPARTMENT CONNECTION
FEP	FUEL EFFICIENT PARKING
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOW LINE
FM	SANITARY SEWER FORCE MAIN
FO	FIBER OPTIC
GV	GATE VALVE
HP	HIGH POINT
INV	INVERT
LF	LINEAR FEET
L/P	LIGHT POLE
MG	MATCH EXISTING GRADE
MH	MANHOLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRICAL
PIV	POST INDICATOR VALVE
P/P	POWER POLE
R	RADIUS
RD	ROOF DRAIN
SCO	SANITARY CLEANOUT
SMH	SANITARY MANHOLE
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TEMP	TEMPORARY
TMH	TELEPHONE MANHOLE
T PED	TELEPHONE PEDESTAL
TOB	TOP OF BANK
TSV	TAPPING SLEEVE & VALVE
TW	TOP OF WALL
TYP	TYPICAL
RCO	ROOF DRAIN CLEANOUT
RD	ROOF DRAIN
UD	UNDER DRAIN
UGE	UNDER GROUND ELECTRICAL
UON	UNLESS OTHERWISE NOTED
WV	WATER VALVE
VB	VALVE BOX
W/	WITH

CIVIL LEGEND:

	EXISTING	NEW
BITUMINOUS PAVEMENT		
BOLLARD		
BUILDING		
CONCRETE SIDEWALK		
CONTOUR	10	
DROP INLET		
ELECTRIC MANHOLE	E	
EXIST TRANSFORMER	XFR	
FENCE	X	
FIRE HYDRANT		
MOORING EYE		
NATURAL GAS	G_X	
SPOT ELEVATION	8.00	
STORM MANHOLE	D	
STORM DRAIN LINE	SD_X	
SANITARY CLEANOUT		
SANITARY MANHOLE	S	
SANITARY SEWER	SS_X	
UNDERGROUND COMMUNICATIONS	UGC_X	
UNDERGROUND ELECTRIC	UGE_X	
WATER	W_X	

DATE | DESCRIPTION | MARK

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DRW	CHK
CEV	CEV	WHW

PM/DM DAVE BURNETTE

BRANCH MANAGER W. WITHAM, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - RIDOC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND—MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION
NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

ABBREVIATIONS, LEGEND, AND GENERAL NOTES

SCALE: AS NOTED

EPROJECT NO.: 1806349

CONSTR. CONTR. NO. N/A

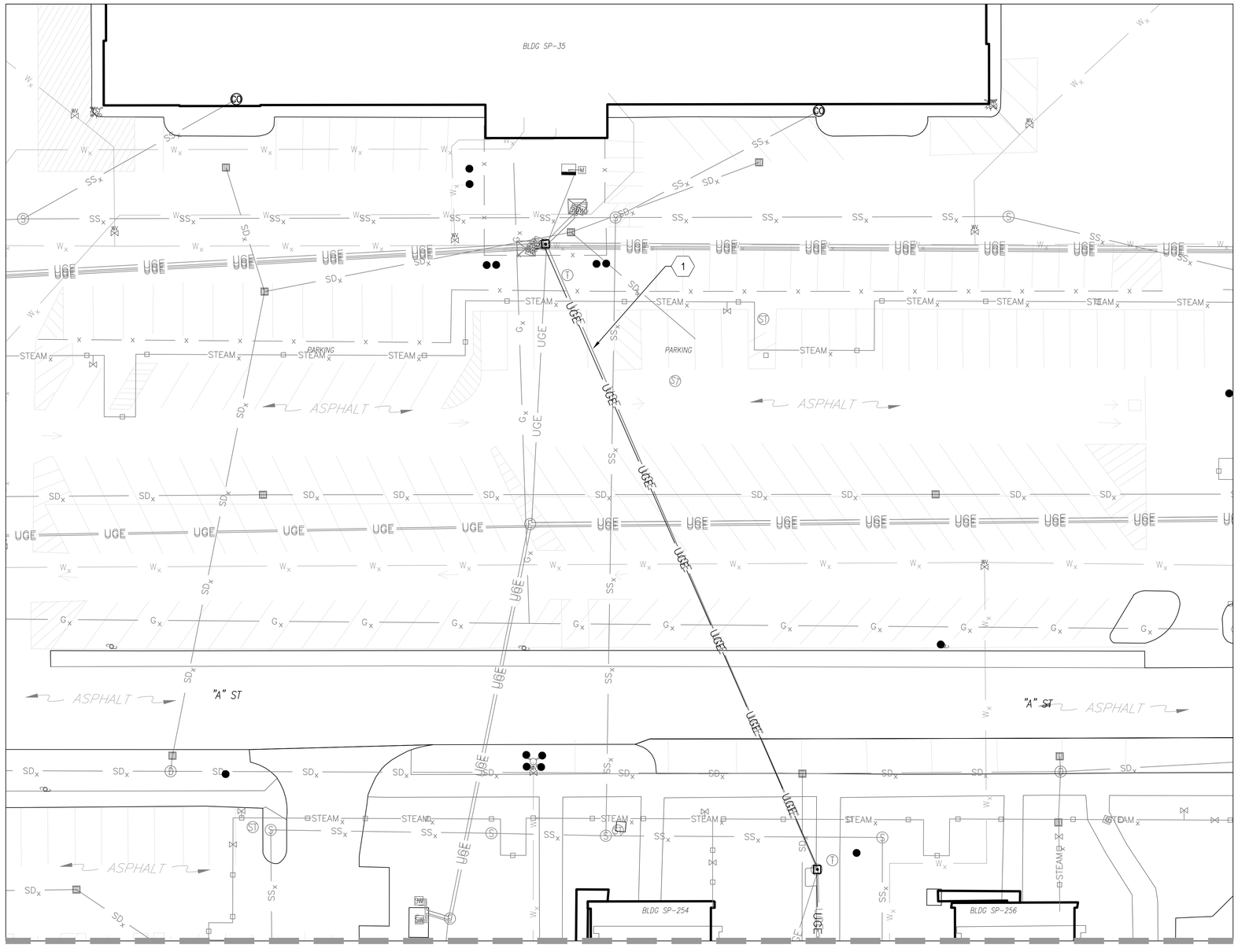
NAVFAC DRAWING NO. 12,944,648

SHEET 2 OF 32

C-001

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: P:\VA\NavalStationNorfolk\Sitework\ElecSite\ElecDsn\2024_1806349_REPLACE UNDERGROUND CABLING SWCH 111-4\B_Design\DWGS\Sheet\05_CIV\1806349-C-001.dwg LAYOUT NAME: C-001 ABBREVIATIONS, LEGEND, AND GENERAL NOTES PLOTTED: Thursday, May 14, 2026 - 12:02pm USER: david.n.burnette



EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

A. PROVIDE EROSION & SEDIMENT CONTROLS AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH VDOT RBS SECTION 303

B. MATCH TO EXISTING GRADES UNLESS OTHERWISE NOTED.

C. VERIFY CONDITION OF EXISTING UNDERGROUND CONDUIT PRIOR TO INSTALLING NEW CABLE.

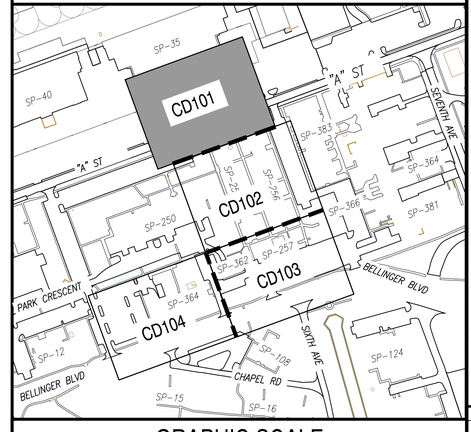
D. ALL EARTHWORK SHALL CONFORM TO VDOT RBS SECTION 303.

E. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE DATA. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES AND ALL SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION.

KEYNOTES

1. COORDINATE WITH THE ELECTRICAL PLANS FOR RELATED WORK.

KEY MAP



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

DATE | DESCRIPTION | MARK

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	CEV	DRW	CEV	CHK	WHW

PM/DM	DAVE BURNETTE
BRANCH MANAGER	W. WITHAM P.E.
CHIEF ENG/ARCH	J. MILLER, P.E.
FIRE PROTECTION	N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROCC2 NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND--MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION
NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.:	1806349
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,944,649
SHEET	3 OF 32

CD101

DRAWFORM REVISION: 14 SEP 2023

MATCHLINE SHEET CD101

MATCHLINE SHEET CD103

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1" = 20'–0"

GENERAL SHEET NOTES

A. PROVIDE EROSION & SEDIMENT CONTROLS AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH VDOT RBS SECTION 303

B. MATCH TO EXISTING GRADES UNLESS OTHERWISE NOTED.

C. VERIFY CONDITION OF EXISTING UNDERGROUND CONDUIT PRIOR TO INSTALLING NEW CABLE.

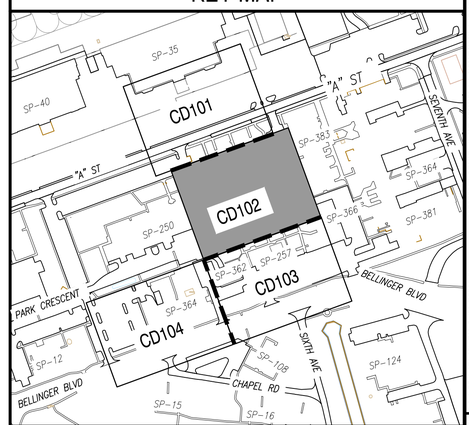
D. ALL EARTHWORK SHALL CONFORM TO VDOT RBS SECTION 303.

E. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE DATA. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES AND ALL SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION.

KEYNOTES

1. COORDINATE WITH THE ELECTRICAL PLANS FOR RELATED WORK.
2. REMOVE CONCRETE SIDEWALK. SAWCUT SIDEWALK AT THE NEAREST EXISTING JOINTS.

KEY MAP



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

DATE	
DESCRIPTION	
MARK	

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE: 05-05-26

DES	CEV	DRW	CEV	CHK	WHW

PM/DM	DAVE BURNETTE
BRANCH MANAGER	W. WITHAM, P.E.
CHIEF ENG/ARCH	J. MILLER, P.E.
FIRE PROTECTION	N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROICC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION

NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

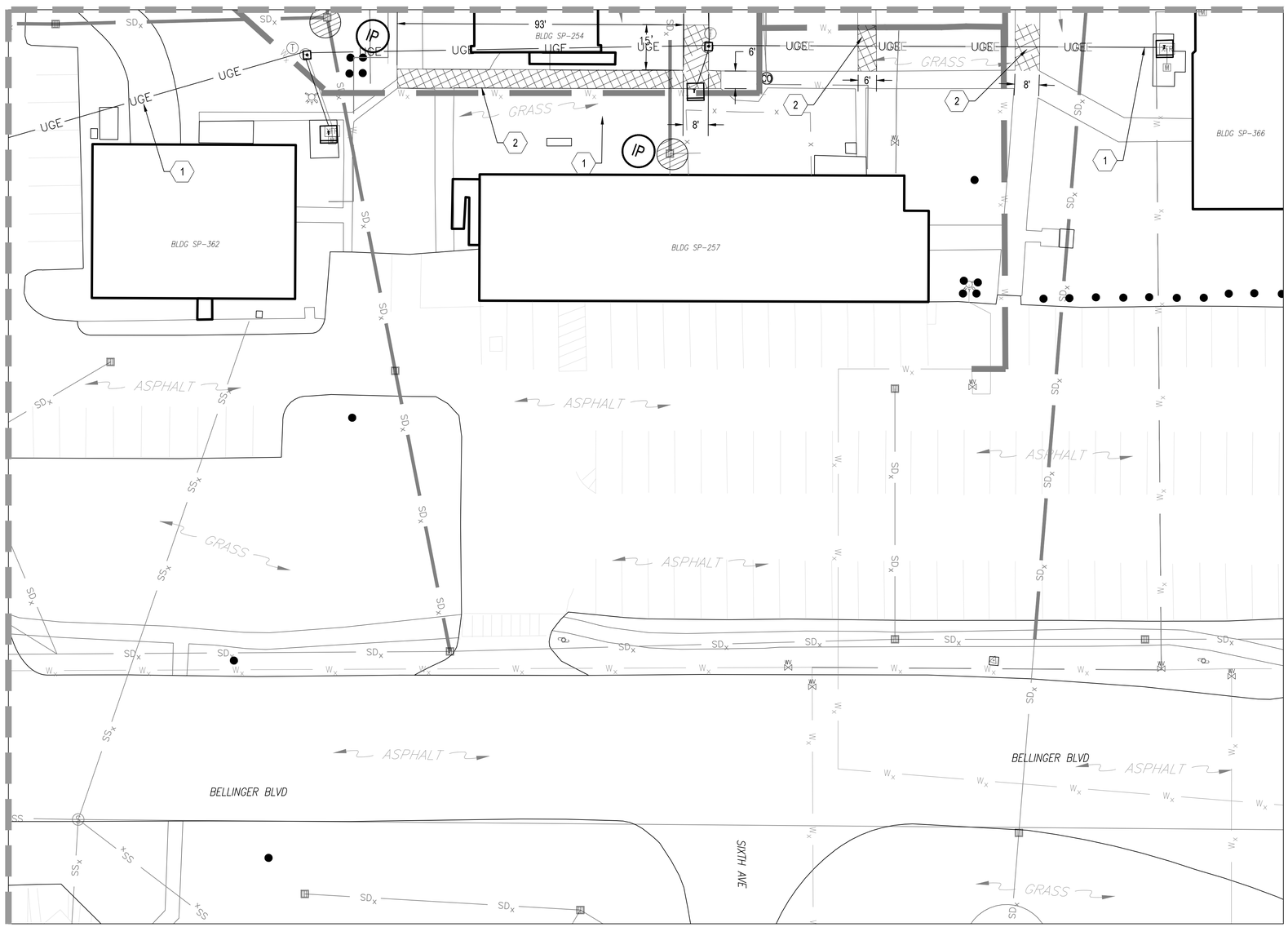
EXISTING CONDITIONS & DEMOLITION PLAN

SCALE	AS NOTED
EPROJECT NO.:	1806349
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,944,650
SHEET	4 OF 32

CD102

DRAWFORM REVISION: 14 SEP 2023

MATCHLINE SHEET CD102



MATCHLINE SHEET CD104

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

A. PROVIDE EROSION & SEDIMENT CONTROLS AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH VDOT RBS SECTION 303

B. MATCH TO EXISTING GRADES UNLESS OTHERWISE NOTED.

C. VERIFY CONDITION OF EXISTING UNDERGROUND CONDUIT PRIOR TO INSTALLING NEW CABLE.

D. ALL EARTHWORK SHALL CONFORM TO VDOT RBS SECTION 303.

E. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE DATA. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES AND ALL SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION.

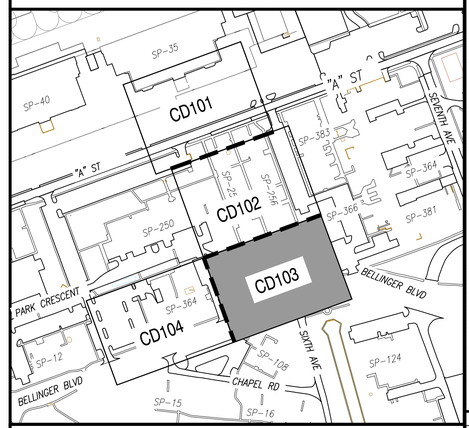
KEYNOTES

1. COORDINATE WITH THE ELECTRICAL PLANS FOR RELATED WORK.
2. REMOVE CONCRETE SIDEWALK. SAWCUT SIDEWALK AT THE NEAREST EXISTING JOINTS.

LEGEND

- SAWCUT PAVEMENT
- REMOVE
- 2" MILL AND OVERLAY
- PAVEMENT MARKING ERADICATION
- IP — INLET PROTECTION
- LIMITS OF DISTURBANCE

KEY MAP



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

DATE | DESCRIPTION | MARK

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 7/2/26

ACTIVITY: JANICE D. FISHBURN, P.E.
SATISFACTORY TO DATE: 05-05-26
DES CEV | DRW CEV | CHK WHW
PM/DM: DAVE BURNETTE
BRANCH MANAGER: W. WITHAM, P.E.
CHIEF ENG/ARCH: J. MILLER, P.E.
FIRE PROTECTION: N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROICC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND--MID-ATLANTIC
NAVAL STATION
NAVAL STATION - NORFOLK, VIA

NORFOLK, VIRGINIA

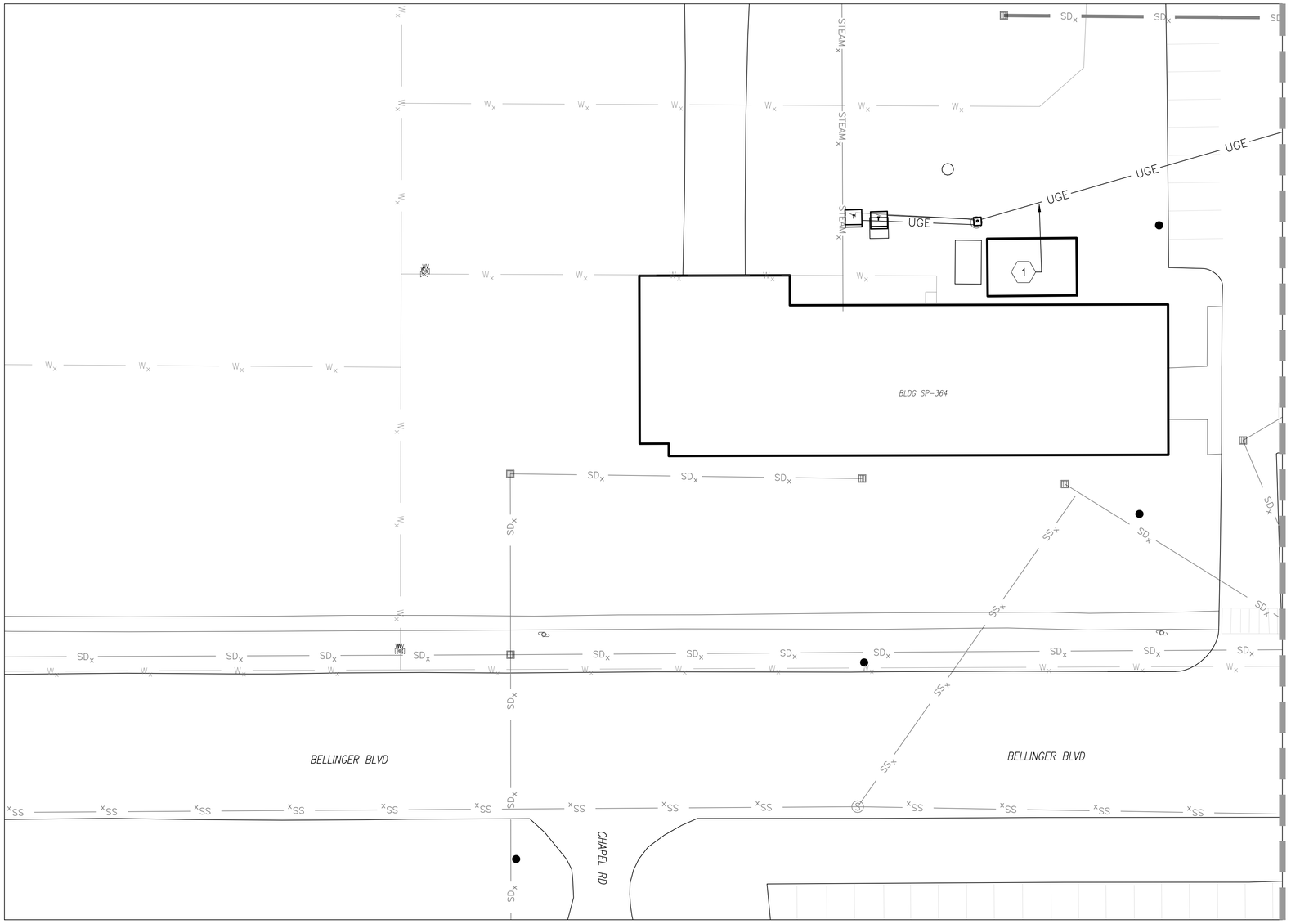
SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS NOTED
EPROJECT NO.: 1806349
CONSTR. CONTR. NO.: N/A
NAVFAC DRAWING NO.: 12,944,651
SHEET 5 OF 32

CD103

DRAWFORM REVISION: 14 SEP 2023



EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

A. PROVIDE EROSION & SEDIMENT CONTROLS AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH VDOT RBS SECTION 303

B. MATCH TO EXISTING GRADES UNLESS OTHERWISE NOTED.

C. VERIFY CONDITION OF EXISTING UNDERGROUND CONDUIT PRIOR TO INSTALLING NEW CABLE.

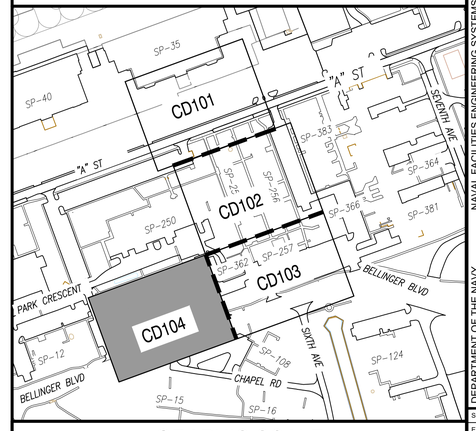
D. ALL EARTHWORK SHALL CONFORM TO VDOT RBS SECTION 303.

E. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE DATA. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES AND ALL SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION.

KEYNOTES

1. COORDINATE WITH THE ELECTRICAL PLANS FOR RELATED WORK.

KEY MAP



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	CEV	DRW	CEV	CHK	WHW

PM/DM DAVE BURNETTE

BRANCH MANAGER W. WITHAM, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - RCJCC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND—MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION

NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1806349

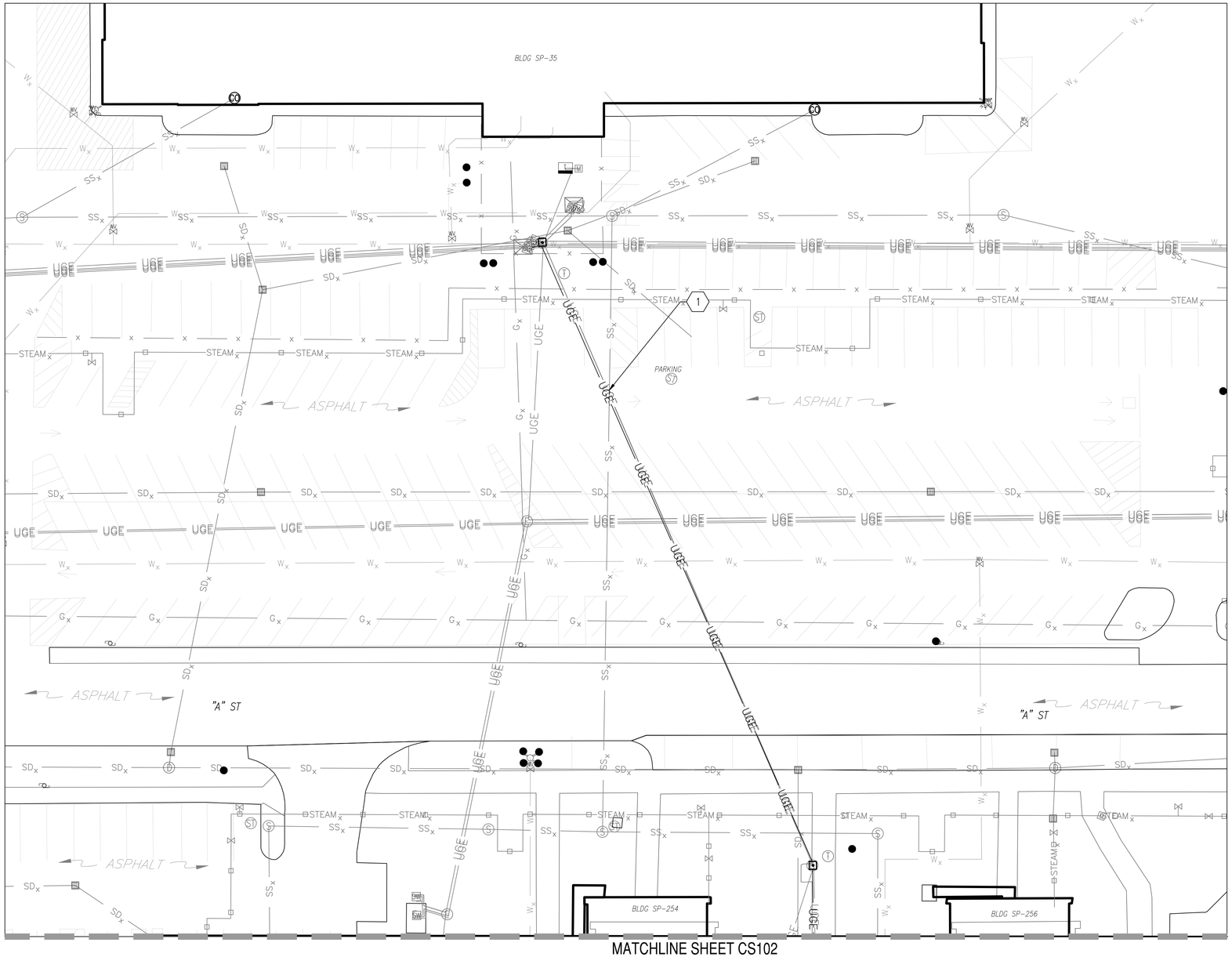
CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,652

SHEET 6 OF 32

CD104

DRAWFORM REVISION: 14 SEP 2023



CIVIL SITE PLAN

SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

A. PROVIDE EROSION & SEDIMENT CONTROLS AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH VDOT RBS SECTION 303

B. MATCH TO EXISTING GRADES UNLESS OTHERWISE NOTED.

C. VERIFY CONDITION OF EXISTING UNDERGROUND CONDUIT PRIOR TO INSTALLING NEW CABLE.

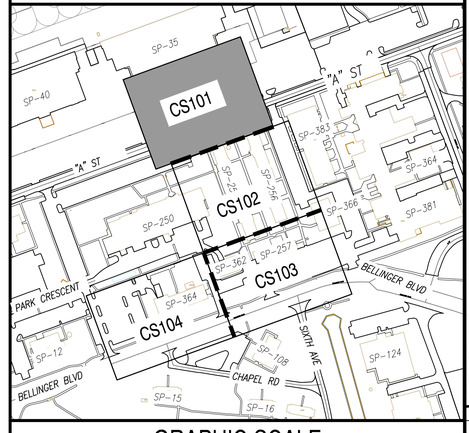
D. ALL EARTHWORK SHALL CONFORM TO VDOT RBS SECTION 303.

E. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE DATA. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES AND ALL SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION.

KEYNOTES

1. COORDINATE WITH THE ELECTRICAL PLANS FOR RELATED WORK.

KEYPLAN



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	CEV	DRW	CEV	CHK	WHW

PM/DM	DAVE BURNETTE
BRANCH MANAGER	W. WITHAM, P.E.
CHIEF ENG/ARCH	J. MILLER, P.E.
FIRE PROTECTION	N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
NAVAL STATION - NORFOLK, VA
MIDLANT - ROOC NORFOLK

NAVAL STATION NORFOLK, VIRGINIA

SP-364 REPLACE UNDERGROUND CABLING IN SP AREA

CIVIL SITE PLAN

SCALE:	AS NOTED
EPROJECT NO.:	1806349
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,944,653
SHEET	7 OF 32

CS101

DRAWFORM REVISION: 14 SEP 2023

CIVIL SITE PLAN

SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

A. PROVIDE EROSION & SEDIMENT CONTROLS AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH VDOT RBS SECTION 303

B. MATCH TO EXISTING GRADES UNLESS OTHERWISE NOTED.

C. VERIFY CONDITION OF EXISTING UNDERGROUND CONDUIT PRIOR TO INSTALLING NEW CABLE.

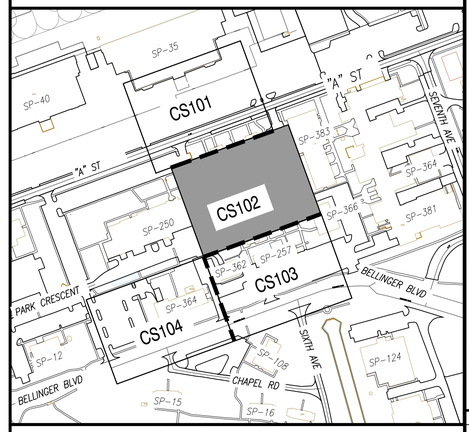
D. ALL EARTHWORK SHALL CONFORM TO VDOT RBS SECTION 303.

E. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE DATA. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES AND ALL SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION.

KEYNOTES

1. COORDINATE WITH THE ELECTRICAL PLANS FOR RELATED WORK.
2. PROVIDE 4" THICK CONCRETE SIDEWALK. REFER TO SHEET C-501 FOR DETAILS.
3. PROVIDE FOR LANDSCAPE PATCH AS NEEDED. REFER TO SHEET C-501 FOR DETAIL.

KEY MAP



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

DATE / DESCRIPTION / MARK	
SEAL	
A/E INFO	
APPROVED FOR COMMANDER NAVFAC	
ACTIVITY	JANICE D. FISHBURN, P.E.
SATISFACTORY TO DATE	05-05-26
DES CEV DRW CEV CHK WHW	
PM/DM	DAVE BURNETTE
BRANCH MANAGER	W. WITHAM, P.E.
CHIEF ENG/ARCH	J. MILLER, P.E.
FIRE PROTECTION	N/A

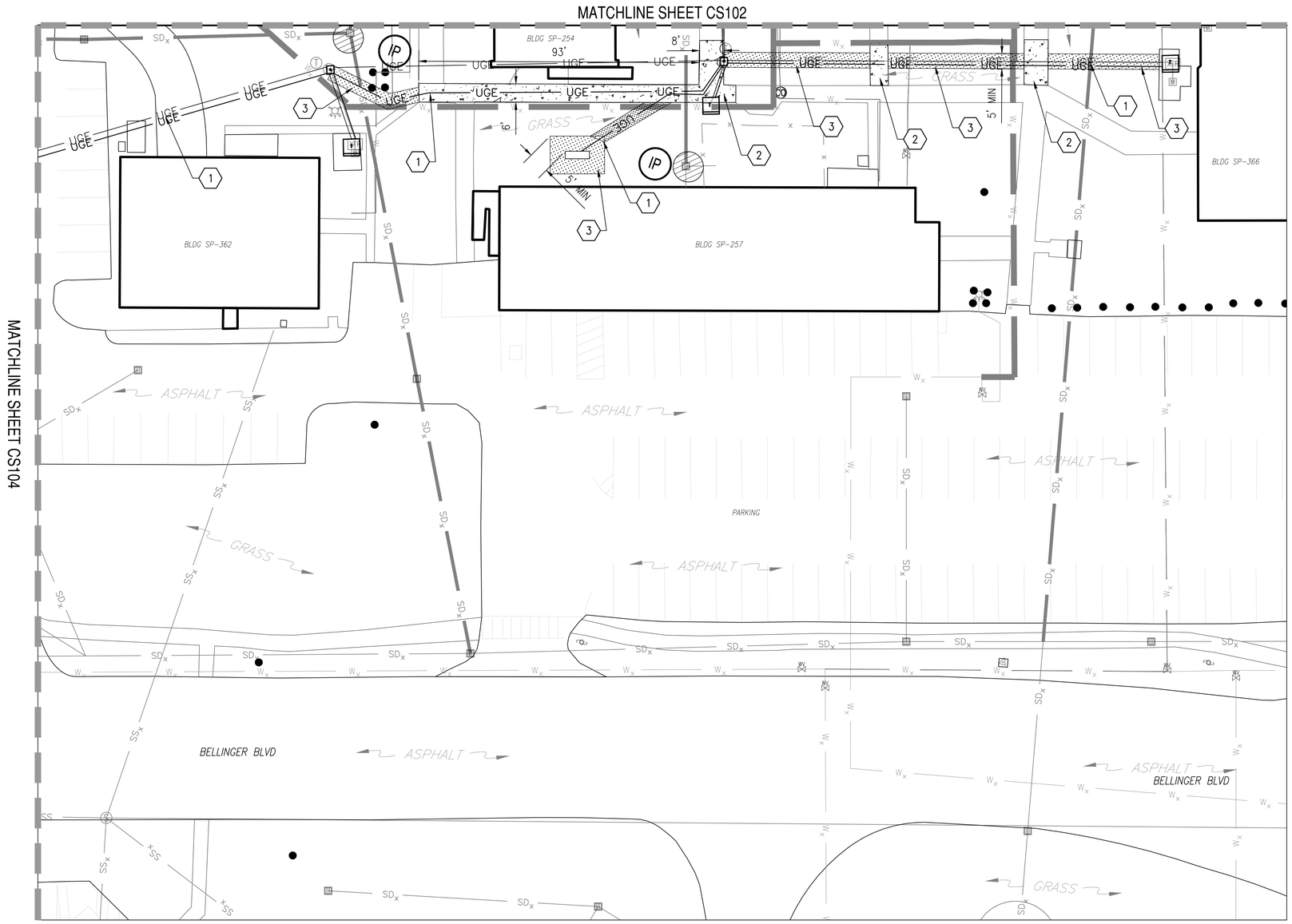
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND--MID-ATLANTIC
MIDLANT - ROICC NORFOLK
NAVAL STATION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND--MID-ATLANTIC
NAVAL STATION - NORFOLK, VA
NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA
CIVIL SITE PLAN

SCALE:	AS NOTED
EPROJECT NO.:	1806349
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,944,654
SHEET	8 OF 32

CS102

DRAWFORM REVISION: 14 SEP 2023



CIVIL SITE PLAN

SCALE: 1" = 20'–0"

GENERAL SHEET NOTES

A. PROVIDE EROSION & SEDIMENT CONTROLS AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH VDOT RBS SECTION 303

B. MATCH TO EXISTING GRADES UNLESS OTHERWISE NOTED.

C. VERIFY CONDITION OF EXISTING UNDERGROUND CONDUIT PRIOR TO INSTALLING NEW CABLE.

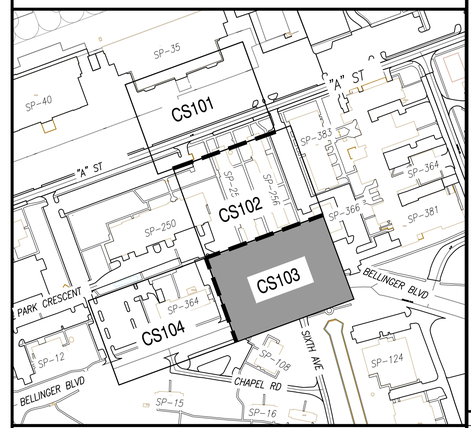
D. ALL EARTHWORK SHALL CONFORM TO VDOT RBS SECTION 303.

E. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE DATA. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES AND ALL SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION.

KEYNOTES

1. COORDINATE WITH THE ELECTRICAL PLANS FOR RELATED WORK.
2. PROVIDE 4" THICK CONCRETE SIDEWALK. REFER TO SHEET C-501 FOR DETAILS.
3. PROVIDE FOR LANDSCAPE PATCH AS NEEDED. REFER TO SHEET C-501 FOR DETAIL.

KEY MAP



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

DATE | DESCRIPTION | MARK

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E

SATISFACTORY TO DATE 05-05-26

DES	DRW	CHK
CEV	CEV	WHW

PM/DM DAVE BURNETTE

BRANCH MANAGER W. WITHAM, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROICC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

CIVIL SITE PLAN

SCALE: AS NOTED

EPROJECT NO.: 1806349

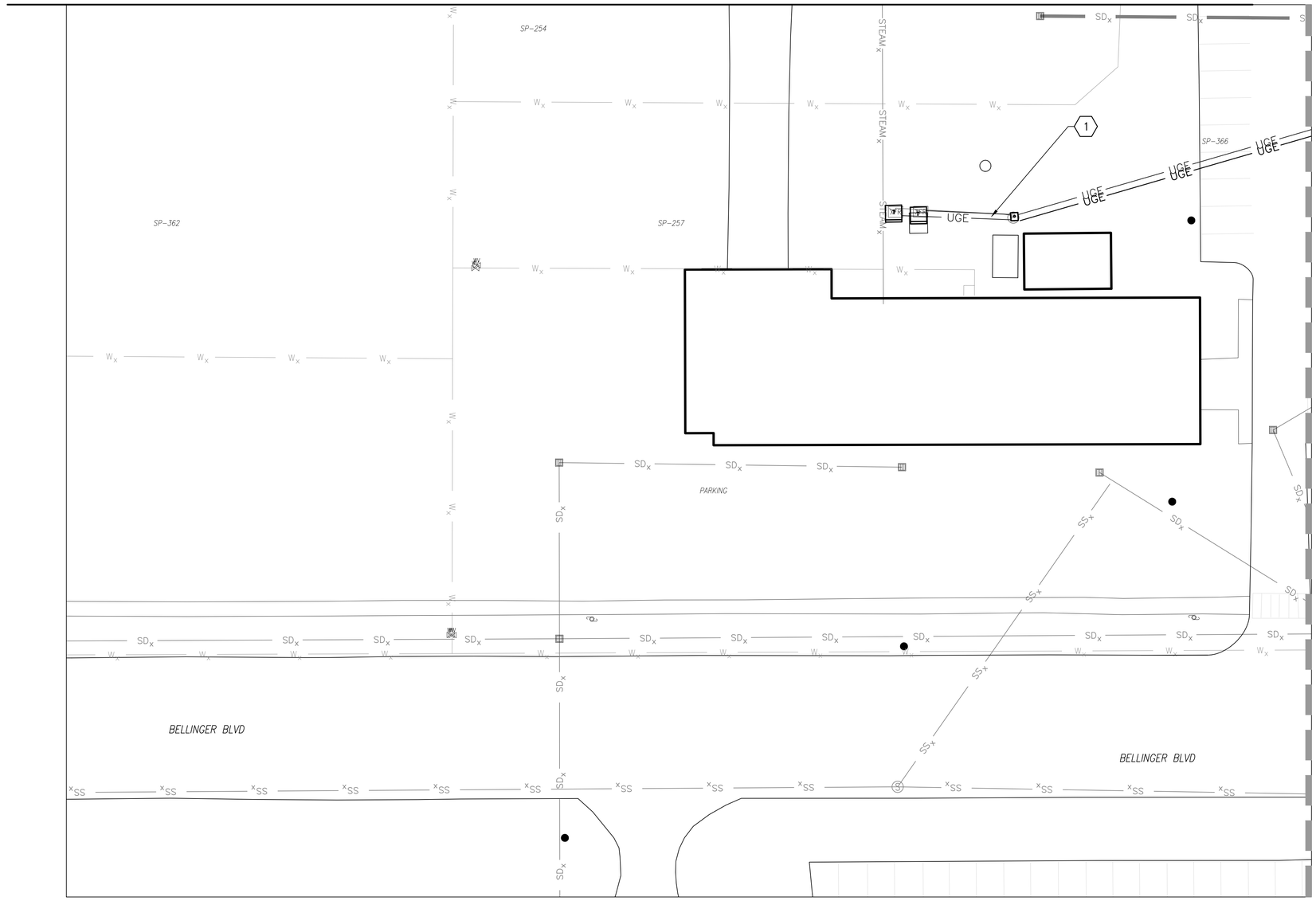
CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,655

SHEET 9 OF 32

CS103

DRAWFORM REVISION: 14 SEP 2023



CIVIL SITE PLAN

SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

A. PROVIDE EROSION & SEDIMENT CONTROLS AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH VDOT RBS SECTION 303

B. MATCH TO EXISTING GRADES UNLESS OTHERWISE NOTED.

C. VERIFY CONDITION OF EXISTING UNDERGROUND CONDUIT PRIOR TO INSTALLING NEW CABLE.

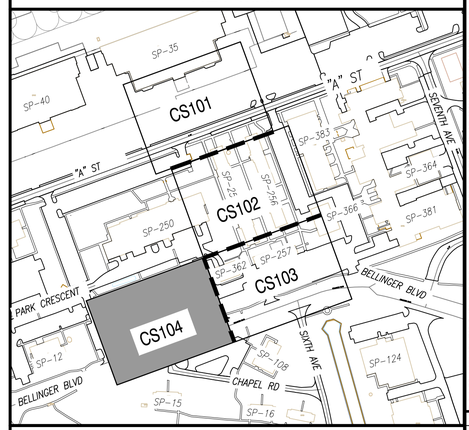
D. ALL EARTHWORK SHALL CONFORM TO VDOT RBS SECTION 303.

E. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE DATA. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES AND ALL SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION.

KEYNOTES

1. COORDINATE WITH THE ELECTRICAL PLANS FOR RELATED WORK.

KEY MAP



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

DATE | DESCRIPTION | MARK

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E

SATISFACTORY TO DATE 05-05-26

DES	DRW	CHK
CEV	CEV	WHW

PM/DM DAVE BURNETTE

BRANCH MANAGER W. WITHAM, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
NAVAL STATION - NORFOLK, VA
MIDLANT - ROCC NORFOLK
NAVAL STATION NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

CIVIL SITE PLAN

SCALE: AS NOTED

EPROJECT NO.: 1806349

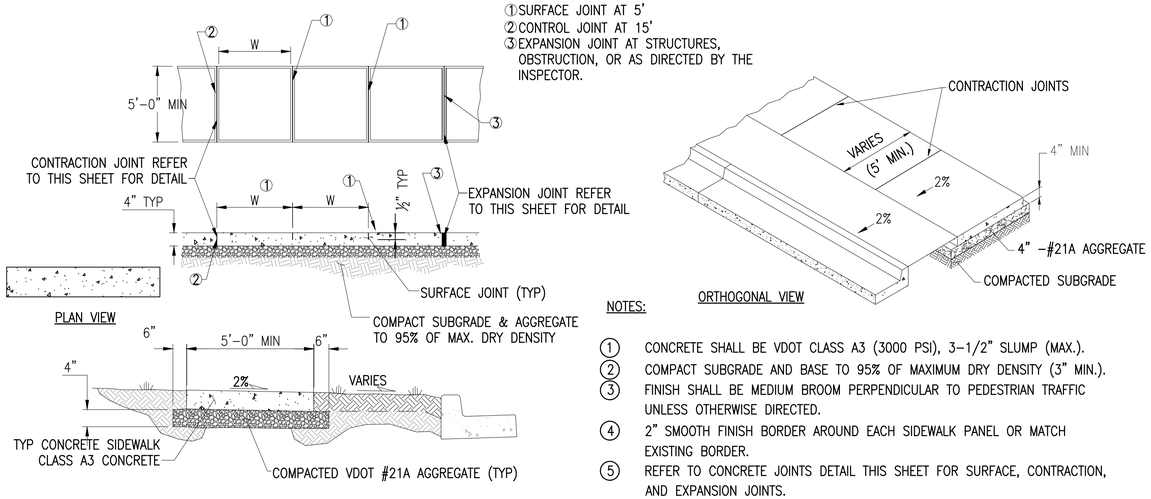
CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,656

SHEET 10 OF 32

CS104

DRAWFORM REVISION: 14 SEP 2023

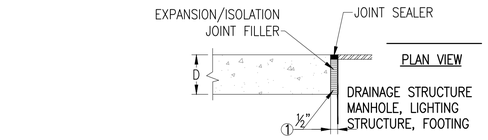


NOTES:

1. CONCRETE SHALL BE VDOT CLASS A3 (3000 PSI), 3-1/2" SLUMP (MAX.).
2. COMPACT SUBGRADE AND BASE TO 95% OF MAXIMUM DRY DENSITY (3" MIN.).
3. FINISH SHALL BE MEDIUM BROOM PERPENDICULAR TO PEDESTRIAN TRAFFIC UNLESS OTHERWISE DIRECTED.
4. 2" SMOOTH FINISH BORDER AROUND EACH SIDEWALK PANEL OR MATCH EXISTING BORDER.
5. REFER TO CONCRETE JOINTS DETAIL THIS SHEET FOR SURFACE, CONTRACTION, AND EXPANSION JOINTS.
6. ALL EXISTING EDGES SHALL BE SAWCUT.
7. CROSS SLOPE OF PLANTING STRIP SHALL BE 2% (TYP.) AND 4:1 (MAX.).

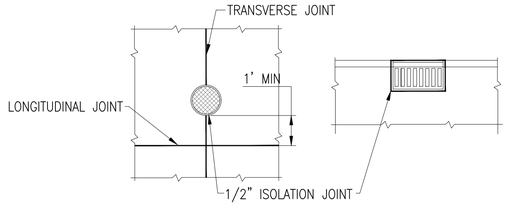
TYPICAL CONCRETE SIDEWALK

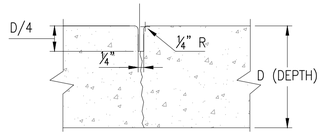
NOT TO SCALE



NOTE:
① 3/8" PREMOLD EXPANSION JOINT FILLER FOR SIDEWALKS, ADA RAMPS, AND DRIVEWAYS

EXPANSION/ISOLATION JOINT DETAIL



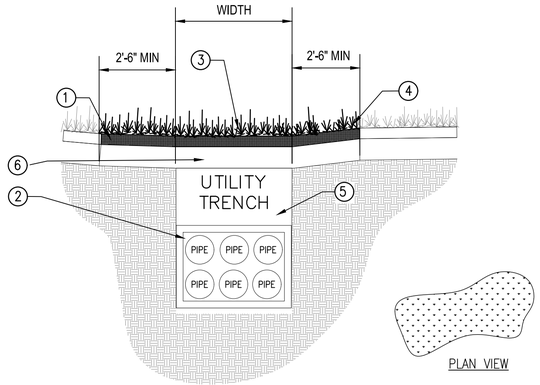


NOTES:

1. CONTRACTION JOINTS MAY BE USED IN PLACE OF SURFACE JOINTS.
2. CONSTRUCTION COLD JOINTS MAY BE USED IN PLACE OF CONTRACTION JOINTS.
3. CONCRETE PAVEMENT LOAD TRANSFER REQUIREMENTS ACROSS JOINTS SHALL BE DETERMINED BY THE PAVEMENT DESIGN.
4. PARALLEL JOINTS SHALL BE SEPARATED BY A MINIMUM OF 2'.

TYPICAL CONCRETE JOINT DETAIL

NOT TO SCALE



NOTES:

1. 4" TOPSOIL SHALL CONFORM TO VDOT RBS SECTIONS 244.02(B) AND 602.
2. REFER TO THE ELECTRICAL PLANS FOR DUCT BANK DETAILS.
3. TIFWAY 419 BERMUDA GRASS SOD.
4. MATCH EXISTING GRADE
5. BACKFILL WITH FREE DRAINING GRANULAR SOIL, NATIVE BORROW MATERIAL NOT GREATER THAN 2". COMPACT IN 6"-12" LIFTS TO 90% PROCTOR DENSITY.
6. 6" MINI SELECT MATERIAL FILL

TYPICAL UTILITY TRENCH IN UN-PAVED AREAS

NOT TO SCALE

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	CEV	DRW	CEV	CHK	WHW

PM/DM	DAVE BURNETTE
BRANCH MANAGER	W. WITHAM, P.E.
CHIEF ENG/ARCH	J. MILLER, P.E.
FIRE PROTECTION	N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT- ROICC NORFOLK

NAVFAC FACILITIES ENGINEERING SYSTEMS COMMAND--MID-ATLANTIC
NAVAL STATION- NORFOLK, VA

NAVAL STATION
NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

CIVIL DETAILS

SCALE:	AS NOTED
EPROJECT NO.:	1806349
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,944,657
SHEET	11 OF 32

C-501

DRAWFORM REVISION: 14 SEP 2023

GENERAL NOTES

1 STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER DISCIPLINES AND SPECIFICATIONS. VERIFY REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK AS WELL AS TO BE TEMPORARILY DISCONNECTED AND RECONNECTED TO ALLOW FOR THE INSTALLATION OF THE STRUCTURAL WORK.

2 THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE STRUCTURAL ENGINEER WILL NOT ADVISE ON, NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.

3 STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. PROVIDE ALL TEMPORARY SHORING, TEMPORARY SUPPORTS, GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

4 THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. SUPERVISION OF WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

5 DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO APPROVAL BY THE CONTRACTING OFFICER.

6 ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.

7 SHOP DRAWINGS MUST BE SUBMITTED FOR REVIEW BY THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. ALL SHOP DRAWINGS MUST BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK, AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO SIZES, DETAILS, DIMENSIONS, ETC. ANY PROPOSED CHANGES MUST BE SUBMITTED IN A LETTER OR DETAIL TO THE CONTRACTING OFFICER FOR APPROVAL.

8 IN NO CASE MAY REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS. SUBCONTRACTOR MUST PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE PLANS AND DETAILS.

9 IN ACCORDANCE WITH THE IBC, SPECIAL INSPECTIONS WILL BE REQUIRED FOR THIS PROJECT. SPECIAL INSPECTIONS MUST BE PERFORMED IN ACCORDANCE WITH THE "SCHEDULE OF SPECIAL INSPECTIONS". THE CONTRACTOR MUST NOTIFY THE SPECIAL INSPECTOR AT LEAST 48 HOURS IN ADVANCE FOR WORK THAT WILL REQUIRE INSPECTION OR TESTING. IF REQUIRED, THE CONTRACTOR MUST EMPLOY THIRD PARTY SPECIAL INSPECTOR.

10 CONTRACTOR MUST VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.

11 FIELD VERIFY DIMENSIONS, ELEVATIONS, INTERFERENCES AND OTHER REQUIREMENTS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF NEW PORTIONS OF THE STRUCTURE TO EXISTING. MAKE ALL MEASUREMENTS NECESSARY FOR CONSTRUCTION. DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER PRIOR TO ORDERING MATERIALS OR BEGINNING WORK (CONSTRUCTION OR DEMOLITION).

12 ALL ITEMS NOTED TO BE DEMOLISHED OR REMOVED WILL BECOME THE CONTRACTOR'S PROPERTY, UNLESS NOTED OTHERWISE. DISPOSITION OF THE ITEMS / MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST ADHERE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

13 TAKE CARE NOT TO DAMAGE THE EXISTING STRUCTURE. WHERE EXISTING CONSTRUCTION IS DAMAGED BY THE CONSTRUCTION REQUIRED BY THESE DOCUMENTS, REPAIR THE DAMAGE ITEM(S) WITH MATERIALS TO MATCH THE ADJACENT MATERIAL, TEXTURE, AND COLOR.

14 DO NOT HANG ITEMS FROM EXISTING STRUCTURE, UNLESS NOTED OTHERWISE.

15 LOCATE AND PROTECT ALL EXISTING UNDERGROUND UTILTIES.

GENERAL SCOPE OF WORK

1. THE GENERAL SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO:

SP-364:

- (1) CONCRETE PADS FOR ELECTRICAL JUNCTION BOX (MAX. WEIGHT 800 LBS., EQUIP. PLAN DIMENSION 72.73"(L) X 35"(W))

- (1) CONCRETE PADS FOR ELECTRICAL JUNCTION BOX (MAX. WEIGHT 700 LBS., EQUIP. PLAN DIMENSION 61.89"(L) X 35"(W))

ANY INCIDENTAL RELATED WORK SHOWN ON OTHER DISCIPLINE DRAWINGS.

FOUNDATION NOTES

1 THE EXTERIOR EQUIPMENT PADS HAVE BEEN DESIGNED FOR AN ELECTRICAL JUNCTION BOX LIMITED TO 800 LBS. MAXIMUM WEIGHT.

2 EXCAVATION MADE WITH POWER-DRIVEN EQUIPMENT IS NOT PERMITTED WITHIN TWO FEET OF KNOWN UTILTIES OR OTHER SUBSURFACE CONSTRUCTION. FOR WORK IMMEDIATLEY ADJACENT TO, OR FOR EXCEVATIONS EXPOSING A UTILTIY OR OTHER BURRIED OBSTRUCTION, EXCEVATE BY HAND.

3 POROUS FILL MUST BE COURSE AGGREGATE VDOT NO. 57.

4 REUSE EXCAVATED MATERIAL TO THE BEST EXTENT POSSIBLE. REMOVE ALL UNUSED EXCAVATED MATERIAL AND DISPOSE OF OFF SITE, FOR BIDDING PURPOSES, ASSUME ALL EXCAVATED MATERIAL THAT IS NOT REUSED AS CONTAMINATED.

CAST-IN-PLACE CONCRETE NOTES

1 CONCRETE WORK MUST CONFORM TO THE REQUIREMENTS OF ACI 318-22 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."

2 CONCRETE MUST BE NORMAL WEIGHT AND MUST OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

3 BEFORE PLACING CONCRETE, EMBEDDED ITEMS MUST BE PROPERLY LOCATED, ACCURATELY POSITIONED, AND MAINTAINED SECURELY IN PLACE. DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE UNLESS INDICATED OR APPROVED BY THE CONTRACTING OFFICER.

4 EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES MUST BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

5 FORMWORK MUST REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 70% OF ITS 28 DAY COMPRESSIVE STRENGTH. THE CONTRACTOR MUST PROVIDE ALL SHORING AND RESHORING.

6 SLAB FINISH TOLERANCE IN ACCORDANCE WITH ACI 301, CLASS A.

7 CONCRETE MUST BE MECHANICALLY VIBRATED IN ACCORDANCE WITH ASTM 309R.

8 ANCHOR RODS WITH UPSET THREADS ARE NOT ALLOWED.

9 COORDINATE WITH THE CIVIL AND ELECTRICAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF CONCRETE PADS.

10 SLOPE EXTERIOR SLAB(S) TO DRAIN. COORDINATE WITH CIVIL DRAWINGS AT LOCATIONS WHERE STRUCTURAL WORK REQUIRES DEMOLITION OF EXISTING SITE ELEMENTS (PARKING LOTS, SIDEWALKS, ETC.)AND AT WORK COMPLETION, PATCHING OF THOSE ELEMENTS TO MATCH ADJACENT.

11 CONCRETE EXPOSED TO FREEZE/THAW CYCLES MUST HAVE 6% (+/- 1 1/2%) ENTRAINED AIR.

REINFORCING STEEL NOTES

1 REINFORCING MATERIALS MUST BE AS FOLLOWS:

A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED
B. TIES AND STIRRUPS - ASTM A615, GRADE 40

2 PLACE REINFORCING STEEL IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (crsi) "MANUAL OF STANDARD PRACTICE". REINFORCING STEEL MUST NOT CONTAIN RUST, SCALE, OIL, GREASE, CLAY, OR FOREIGN SUBSTANCES THAT WOULD REDUCE THE BOND. REMOVE LOOSE RUST PRIOR TO PLACEMENT.

3 UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER MUST BE PROVIDED FOR CONCRETE PROTECTION OF REINFROCING, AS WELL AS PLACING AND FABRICATION OF REINFORCING, IN ACCORDANCE WITH RECCOMENDATIONS IN ACI 318:

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
B. CONCRETE CAST IN FORMS AND EXPOSED TO EARTH OR WEATHER:

I. STRUCTURAL SLAB ON GRADE	= 2"
II. #6 AND LARGER BARS	= 2 1/2"
III. #5 BAR, W31 OR D31 WIRE & SMALLER	= 1-1/2"
IV. INTERIOR WALLS AND SLABS	= 1-1/2"

4 SHOP DRAWINGS MUST BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION OF REINFORCING STEEL.

5 LAP CONTINUOUS REINFORCING STEEL A MINIMUM LENGTH OF 36 X BAR DIAMETER OF SLAMMER BAR BEING LAPPED.

6 DETAIL BARS IN ACCORDANCE WITH ACI DETAILING MANUAL, LATEST EDITION. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITIONS SHOWN. BAR SUPPORTS AND HOLDING BARS MUST BE PROVIDED FOR ALL REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER. BAR SUPPORTS MUST BE PLASTIC TIPPED OR STAINLESS STEEL.

7 EACH REINFORCING BAR MUST BE WIRED TO A CROSS BAR AT A MAXIMUM SPACING OF 2'-0" ON CENTER.

8 ALL REINFORCING STEEL, DOWELS, ANCHOR RODS, AND OTHER HARDWARE TO BE SET IN CONCRETE MUST BE TIED IN PLACE PRIOR TO THE PLACEMENT OF CONCRETE TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.

STRUCTURAL ABBREVIATIONS

ARCH	ARCHITECT, -URAL
B.P.	BASE PLATE
BLDG	BUILDING
BOD	BOTTOM OF DECK
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BRCG	BRACING
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DEMO	DEMOLISH
DIA (OR) Ø	DIAMETER
DIM(S)	DIMENSION(S)
DWGS	DRAWINGS
E, EXIST	EXISTING
E.W.	EACH WAY
EA	EACH
EF	EACH FACE
EL, ELEV	ELEVATION
EQ, EQUIV	EQUAL, EQUIVALENT
F'C	COMPRESSIVE STRESS
FDN	FOUNDATION
FF EL	FINISHED FLOOR ELEVATION
FOS	FACE OF SLAB
FS	FAR SIDE
FTG	FOOTING
FY	ALLOWABLE YIELD STRESS
GA	GAUGE
HDG, GALV	HOT DIPPED GALVANIZED
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SHAPES
IAW	IN ACCORDANCE WITH
INFO	INFORMATION
INT	INTERIOR
KSI	KILOPOUNDS (KIPS) PER SQUARE INCH
L	ANGLE
LB, LBS	POUNDS
LF	LINEAR FEET
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MATL	MATERIAL
MAX	MAXIMUM
MD	METAL DECK
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MOS	MID-DEPTH OF SLAB
MPH	MILES PER HOUR
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OPH	OPPOSITE HAND
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RE, REF	REFERENCE
REINF	REINFORCE, -MENT
REQD	REQUIRED
SF	SQUARE FEET
SIM	SIMILAR
SPA	SPACING
SPEC	CONTRACT SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
T&B	TOP AND BOTTOM
THK	THICKNESS
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING / FOUNDATION
TOS	TOP OF STEEL
TS	THICKENED SLAB
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/, W/O	WITH, WITHOUT
WWF	WELDED WIRE FABRIC
~ , APPROX	APPROXIMATELY

STRUCTURAL SYMBOLS

COMPACTED SUBGRADE / FILL

CRUSHED STONE

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 7-5-26
ACTIVITY
JANICE D. FISHBURN, P.E.
SATISFACTORY TO DATE 05/05/2026
DES BSH | DRW BSH | CHK DSG
PMDM DAVE BURNETTE
BRANCH MANAGER D. GREGORY, P.E.
CHIEF ENG/ARCH J. MILLER, P.E.
FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT DC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
NAVAL STATION - NORFOLK, VA
NAVAL STATION NORFOLK
NORFOLK, VIRGINIA
SP 364 REPLACE UNDERGROUND CABLING
STRUCTURAL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES

SCALE: AS NOTED
EPROJECT NO.: 1806349
CONSTR. CONTR. NO.
N/A
NAVFAC DRAWING NO.
12,944,658
SHEET 12 OF 32

S-001

DRAWFORM REVISION: 25 AUGUST 2020

S-001
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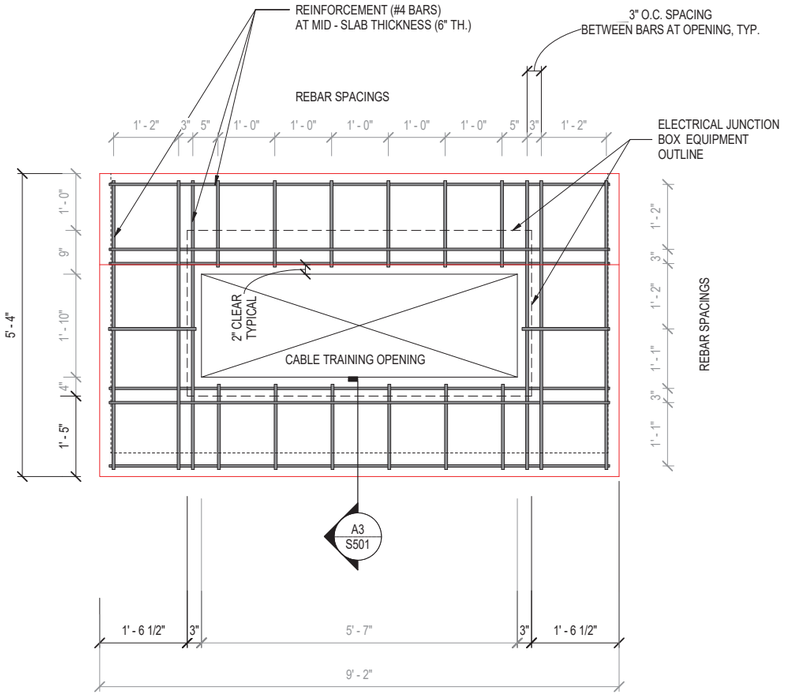


ELECTRICAL JUNCTION BOX PAD I:

EQUIPMENT PLAN DIMENSION : 6' - 1" (L) X 2' - 11""(W)
PAD DIMENSION : 9' - 2" (L) X 5' - 4" (W) X 6" (TH.)

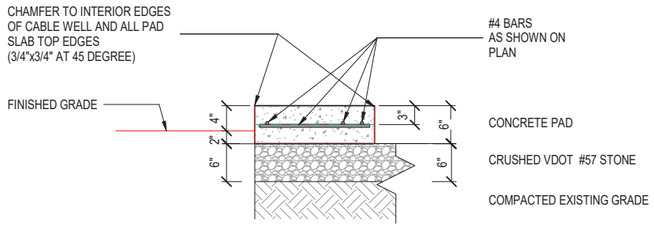
NOTES:

1. COORDINATE ELECTRICAL JUNCTION BOX LOCATION AND CABLE WELL WITH CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS.

2. CHAMFER (BEVEL) ALL CABLE TRAINING INTERIOR EDGES @ 45 DEGREE

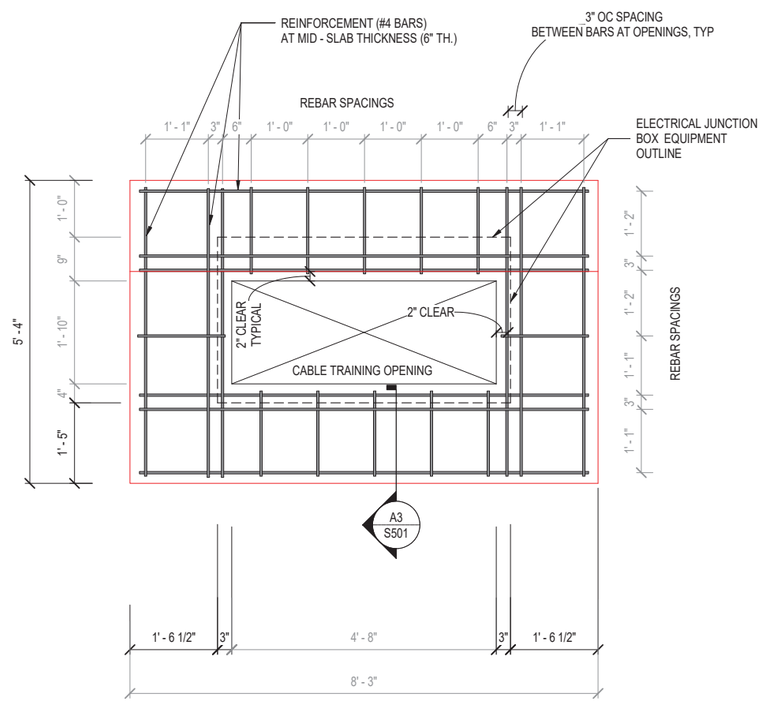
A1 PAD DETAILS FOR ELECTRICAL JUNCTION BOX I (PLAN)

SCALE: 3/4" = 1'-0"



A3 SECTION 1

SCALE: 1" = 1'-0"



ELECTRICAL JUNCTION BOX PAD II:

EQUIPMENT PLAN DIMENSION : 5' - 2" (L) X 2' - 11""(W)
PAD DIMENSION : 8' - 3" (L) X 5' - 4" (W) X 6" (TH.)

NOTES:

1. COORDINATE ELECTRICAL JUNCTION BOX LOCATION AND CABLE WELL WITH CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS.

2. CHAMFER (BEVEL) ALL CABLE TRAINING INTERIOR EDGES @ 45 DEGREE

A4 PAD DETAILS FOR ELECTRICAL JUNCTION BOX II (PLAN)

SCALE: 3/4" = 1'-0"

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05/05/2026

DES	BSH	DRW	BSH	CHK	DSG

PM/DM DAVE BURNETTE

BRANCH MANAGER D. GREGORY, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT DO CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION NORFOLK

NORFOLK, VIRGINIA

SP 364 REPLACE UNDERGROUND CABLING

PAD DETAILS FOR ELECTRICAL JUNCTION BOX

SCALE: AS NOTED

EPROJECT NO. 1806349

CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,659

SHEET 13 OF 32

S501

DRAW/FORM REVISION: 14 SEP 2023

5/5/2026 1:55:26 PM S501
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ELECTRICAL PROJECT NOTES:

1. UTILITY AND EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE INTENDED TO ALERT CONTRACTOR OF THEIR PRESENCE. SITE UTILITIES SHOWN ON THE DRAWINGS ORIGINATE FROM THE LATEST CAD DRAWING, PROVIDED BY THE NAVY. CONTRACTOR MUST PROVIDE THE SERVICES OF A SPECIALIST TO MARK OUT ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION. GROUND PENETRATING RADAR MUST BE USED. CONTRACTOR MUST ALSO NOTIFY "MISS UTILITY OF VIRGINIA". COORDINATE ALL EXCAVATION AND LOCATION OF PADS, FOUNDATIONS, AND CONDUITS WITH NEW AND EXISTING UTILITIES. HAND DIGGING WILL BE REQUIRED IN CERTAIN AREAS DUE TO THE CONCENTRATION OF EXISTING UTILITIES (APPROXIMATELY 500').
2. FEEDER DISTANCES SCALED FROM DRAWINGS SHALL BE USED FOR BIDDING PURPOSES ONLY. FIELD MEASURE ALL RUNS FOR EXACT CABLE LENGTHS REQUIRED.
3. ALL MEDIUM VOLTAGE WIRING SHALL BE FIREWRAPPED IN MANHOLES. ALL METALLIC COMPONENTS IN MANHOLE MUST BE BONDED TO GROUND.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND BACKFILL. CONTRACTOR MUST PATCH, REPAIR, OR REPLACE ROADWAYS, SIDEWALKS, AND LANDSCAPING AFFECTED BY CONDUIT TRENCHING.
5. FOLLOW ALL CONFINED SPACE ENTRY REQUIREMENTS FOR WORK IN TRENCHES AND MANHOLES.
6. COORDINATE LOCATION AND DEPTH OF NEW CONDUIT RUNS WITH EXISTING UTILITIES. SOME CONDUITS WILL BE REQUIRED TO BE RUN CONSIDERABLY DEEPER BELOW GRADE THAN MINIMUM COVER REQUIREMENTS. SEE CIVIL DRAWINGS FOR DETAILS.
7. CLEAN AND MANDREL BOTH NEW AND EXISTING DUCTS PRIOR TO INSTALLATION OF NEW CABLE.
8. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POWER TO EXISTING DEVICES AND FIXTURES NOT REMOVED DURING DEMOLITION PHASE.
9. ACCESS TO AND CLEARANCES AROUND NEW AND EXISTING ELECTRICAL EQUIPMENT MUST CONFORM TO NEC ARTICLE 110 AND UFC 3-550-01. CONSULT ENGINEER WHERE SPACE APPEARS INADEQUATE DUE TO ARCHITECTURAL CHANGES, EQUIPMENT LAYOUT CHANGES, OR FIELD CONDITIONS.
10. ALL WORK REQUIRING CIRCUIT OUTAGES SHALL BE BID ON THE BASIS THAT SUCH WORK MUST BE ACCOMPLISHED AFTER NORMAL WORKING HOURS, DURING NIGHTS, HOLIDAYS, AND WEEKENDS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING EXISTING CIRCUITS TO MAINTAIN PROPER PHASING AT INTERCONNECTIONS AND PROPER PHASE ROTATION FOR EQUIPMENT. PRIOR TO DEMOLITION, MARK THE CONDUCTORS TO IDENTIFY THE PHASING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DUE TO IMPROPER PHASING.
12. CONTRACTOR SHALL PROVIDE ALL SPLICING MATERIALS, CONNECTING MEANS AND MISCELLANEOUS HARDWARE TO COMPLETE ALL NEW TO EXISTING CONNECTIONS.
13. CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED TO CONNECT NEW ABOVEGROUND TERMINATION CABINET TO EXISTING OR NEW EQUIPMENT.
14. EXISTING UNDERGROUND CABLE IS POTENTIALLY PAPER INSULATED LEAD COVERED CABLE (PILC) AND MUST BE HANDLED AND DISPOSED OF PROPERLY.

ELECTRICAL SEQUENCE OF CONSTRUCTION

1. PRIOR TO BEGINNING OF DEMOLITION OF EXISTING CIRCUIT, THE FOLLOWING WORK MUST BE COMPLETED AND ACCEPTED BY THE GOVERNMENT:
   - A. THE INSTALLATION OF NEW DUCTBANKS AND ABOVE GROUND 600A TERMINATION CABINETS MUST BE COMPLETED.
   - B. ALL CABLE MUST BE INSTALLED IN CONDUIT AND ROUTED TO THEIR RESPECTIVE EQUIPMENT AND PREPARED FOR CONNECTION.
   - C. ONCE NOTES A AND B ARE COMPLETE, AN OUTAGE CAN BE REQUESTED TO CONNECT ALL CIRCUITS.
   - D. UPON COMPLETION OF CONNECTION AND ACCEPTANCE, DEMOLITION OF EXISTING CABLE CAN BE COMPLETED.

GENERAL

- (#) DEMOLITION AND NEW WORK NOTE – REFER TO "DEMOLITION NOTES" AND "NEW WORK NOTES" FOR EACH SHEET.
- A. GENERAL NOTE – REFER TO "GENERAL NOTES" FOR EACH SHEET
- ——— OBJECTS ON DRAWINGS AT THIS LINEWEIGHT ARE CATEGORIZED AS NEW OR PROPOSED FOR CONSTRUCTION, UON.
- - - - - OBJECTS ON DRAWINGS AT THIS LINEWEIGHT ARE CATEGORIZED AS EXISTING TO BE REMOVED–DEMOLISHED, UON.
- ——— OBJECTS ON DRAWINGS AT THIS LINEWEIGHT ARE CATEGORIZED AS EXISTING TO REMAIN, UON.

SITE

- EXISTING MANHOLE
- "A1" DUCTBANK DETAIL
- DUCTBANK SECTION LOOKING IN DIRECTION OF ARROWS (2 SPARE DUCT (TYPICAL); X HEAVY LINE INDICATES BOTTOM OF DUCT.; A EXISTING CABLE DESIGNATION (TYPICAL) DESCRIPTION PER CABLE SCHEDULE, SHEET ED701; OCCUPIED DUCT, UNIDENTIFIED CABLE; NEW CABLE DESIGNATION (TYPICAL) DESCRIPTION PER CABLE SCHEDULE, SHEET ES701)
- —UGE— UNDERGROUND ELECTRICAL CONCRETE ENCASED IN DUCTBANK. SEE CABLE SCHEDULE SHEET ED601/ES601
- —UE— UNDERGROUND ELECTRICAL CONDUIT
- UNIT SUBSTATION
- T PAD MOUNTED TRANSFORMER. 'T' DENOTES TRANSFORMER IDENTIFCATION; HEAVY LINE INDICATES FRONT OF TRANSFORMER
- PAD MOUNTED SWITCH
- PAD MOUNTED 600A ABOVEGROUND TERMINATION CABINET

ABBREVIATIONS

ϕ	PHASE
1/C	ONE CONDUCTOR
A	AMPERAGE OR AMPS
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AMI	AUTOMATED METER INDICATING
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT
ELEC	ELECTRICAL
EMH	ELECTRICAL MANHOLE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPLOSION PROOF EQUIPMENT
FCU	FAN COIL UNIT
FEED	FEEDER
FT	FEET
GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFE	GOVERNMENT FURNISHED EQUIPMENT
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HGT	HEIGHT
HH	HANDHOLE
HP	HORSEPOWER
KWH	KILOWATT HOUR
LED	LIGHT EMITTING DIODE
LTS	LUMINAIRE
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
HT	HEIGHT
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSIBLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OVHD	OVERHEAD
PNL	PANEL
PNLBD	PANELBOARD
PRI	PRIMARY
PVC	POLYVINYL CHLORIDE CONDUIT
QU	QUANTITY
REC	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RGS	RIGID STEEL CONDUIT
SEC	SECONDARY
SHT	SHEET
STP	SHIELDED TWISTED PAIR
SUB	SUBSTATION
SWBD	SWITCHBOARD
T	TELEPHONE
TX	TRANSFORMER
TYP	TYPICAL
UEM	UTILITIES AND ENERGY MANAGEMENT
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTAGE OR VOLTS
W	WIRE
WH	WATTHOUR
WP	WEATHERPROOF
WW	WIREWAY (TROUGH)
X	IN SCHEDULES, ITEM NOT APPLICABLE
XFMR	TRANSFORMER

GENERAL NOTES

- A. COORDINATE UNDERGROUND CONDUIT ROUTING IN FIELD AND AVOID INTERFERENCE WITH OTHER TRADES. CONDUITS ARE SHOWN DIAGRAMMATICALLY. FINAL LOCATION TO BE DETERMINED IN THE FILED.
- B. WIRING MUST BE PER THE LATEST NATIONAL ELECTRICAL CODE.
- C. FEEDERS/CIRCUITS MUST BE IDENTIFIED AT EACH END OF THE WIRE AND AT EVERY SPLICE OR MANHOLE.
- D. EXTERIOR EQUIPMENT MUST BE IN NEMA 4X ENCLOSURES, UON.
- E. COORDINATE WITH NAVFAC UTILITIES ENERGY MANAGEMENT (UEM) DEPARTMENT, ACTIVITY, AND CONTRACTING OFFICER FOR OUTAGE ON BASE 11.5KV SYSTEMS.
- F. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
- G. AN EQUIPMENT GROUND WIRE MUST BE RUN WITH FEEDER CIRCUITS.
- H. ALL 15KV CABLES MUST BE COPPER 133% EPR. REFER TO GENERAL REQUIREMENTS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- I. CONDUIT ENCASED IN CONCRETE MUST HAVE SPACERS AND SUPPORTS INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS PRIOR TO PLACEMENT OF CONCRETE. THE CONCRETE ENCASEMENT SURROUNDING THE DUCTBANK MUST BE SEPARATED BY A MINIMUM OF 3 INCHES OF CONCRETE. SPACERS, SUPPORTS, AND END BELLS MUST BE PVC OR HIGH IMPACT POLYSTYRENE.
- G. ALL PROGRAMMING OF EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR DOING THE WORK TO INCLUDE THE UTILITY GAS SWITCH.
- H. CONTRACTOR SHALL UPDATE SETTINGS FOR SWITCH 111 WAY #4. NAVFAC UEM WILL PROVIDE THE NEW SETTINGS.

GENERAL DEMOLITION NOTES

1. EQUIPMENT SHOWN WITH DASHED LINE MUST BE REMOVED, UON.
2. WIRING TO EQUIPMENT MUST BE REMOVED, UON.

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 2026

ACTIVITY: JANICE D. FISHBURN, P.E.
SATISFACTORY TO DATE: 05-05-26
DES DNB | DRW DNB | CHK JAT
PM/DM: DAVE BURNETTE
BRANCH MANAGER: J. MORTON, P.E.
CHIEF ENG/ARCH: J. MILLER, P.E.
FIRE PROTECTION: N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC SYSTEM - NORFOLK, VA
NAVFAC MIDLANT - ROICC NORFOLK

NAVAL STATION
NORFOLK, VIRGINIA

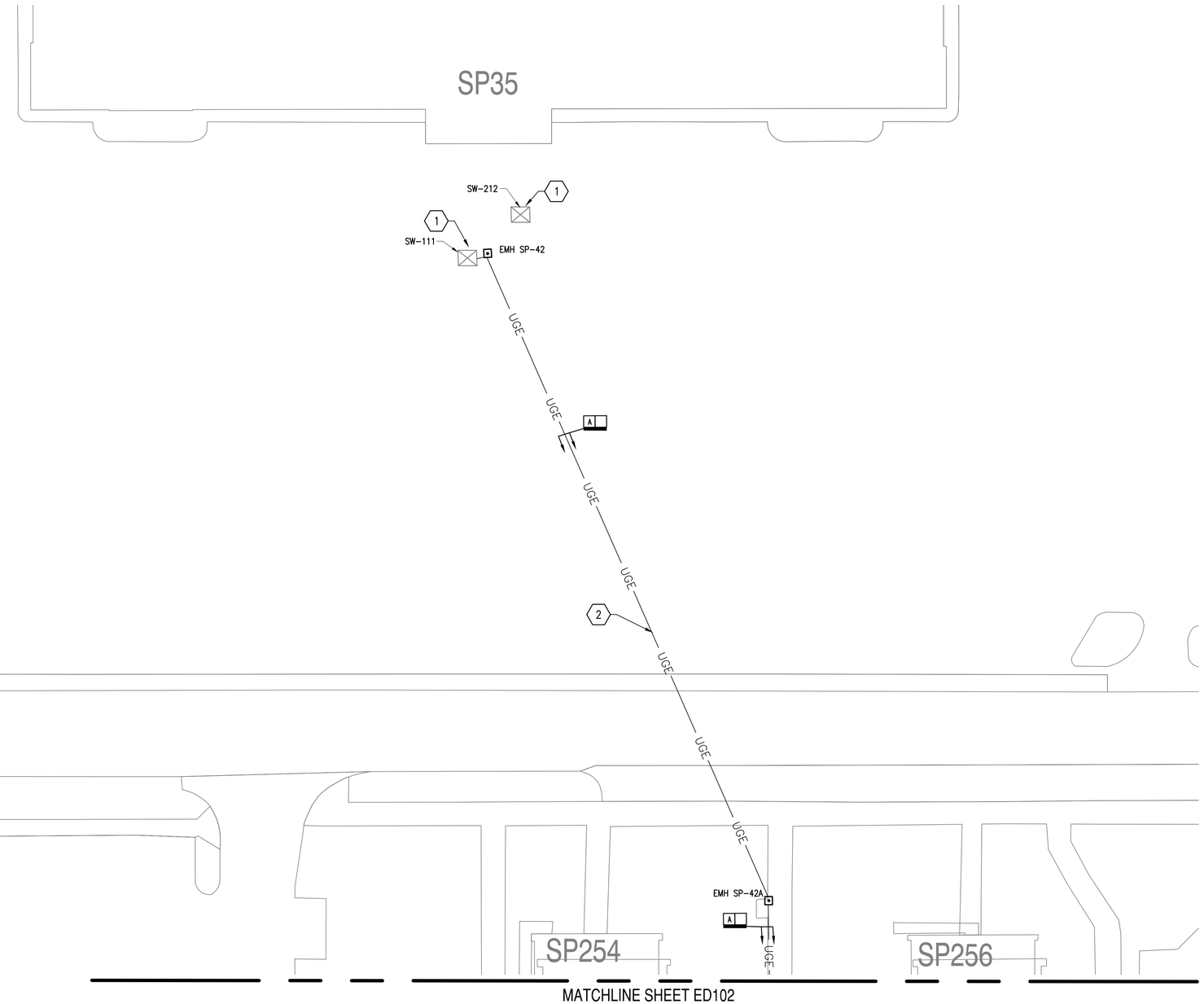
SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

ELECTRICAL SYMBOLS LEGEND ABBREVIATIONS AND NOTES

SCALE: AS NOTED
EPROJECT NO.: 1806349
CONSTR. CONTR. NO.: N/A
NAVFAC DRAWING NO.: 12,944,660
SHEET 14 OF 32

ES001

DRAWFORM REVISION: 14 SEP 2023



ELECTRICAL SITE PLAN - DEMOLITION

SCALE: 1" = 20'

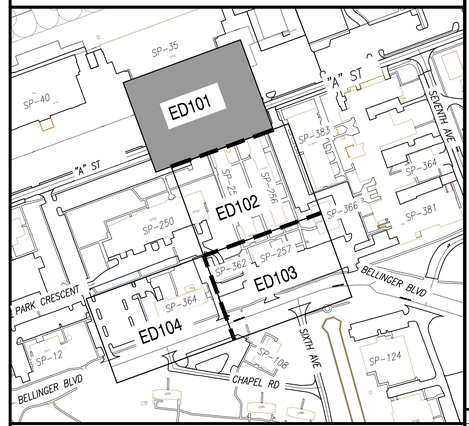
GENERAL SHEET NOTES

1. REFER TO SHEETS ED501 AND ED502 FOR MANHOLE DEMOLITION DETAILS.
2. REFER TO SHEET ED701 FOR DEMOLITION CABLE SCHEDULE.
3. COORDINATE WITH NAVFAC UTILITIES ENERGY MANAGEMENT (UEM), CONTRACTING OFFICER, AND ACTIVITY FOR OUTAGE ON BASE 11.5KV SYSTEMS.

KEYNOTES

1. EXISTING SW-111 AND SW-212 TO REMAIN.
2. DEMOLISH CABLE FROM SW-111 WAY#4 TO EMH SP-42A.

KEYPLAN



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DRW	CHK
DNB	DNB	JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROICC NORFOLK
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
NAVAL STATION - NORFOLK, VA
NAVAL STATION NORFOLK, VIRGINIA

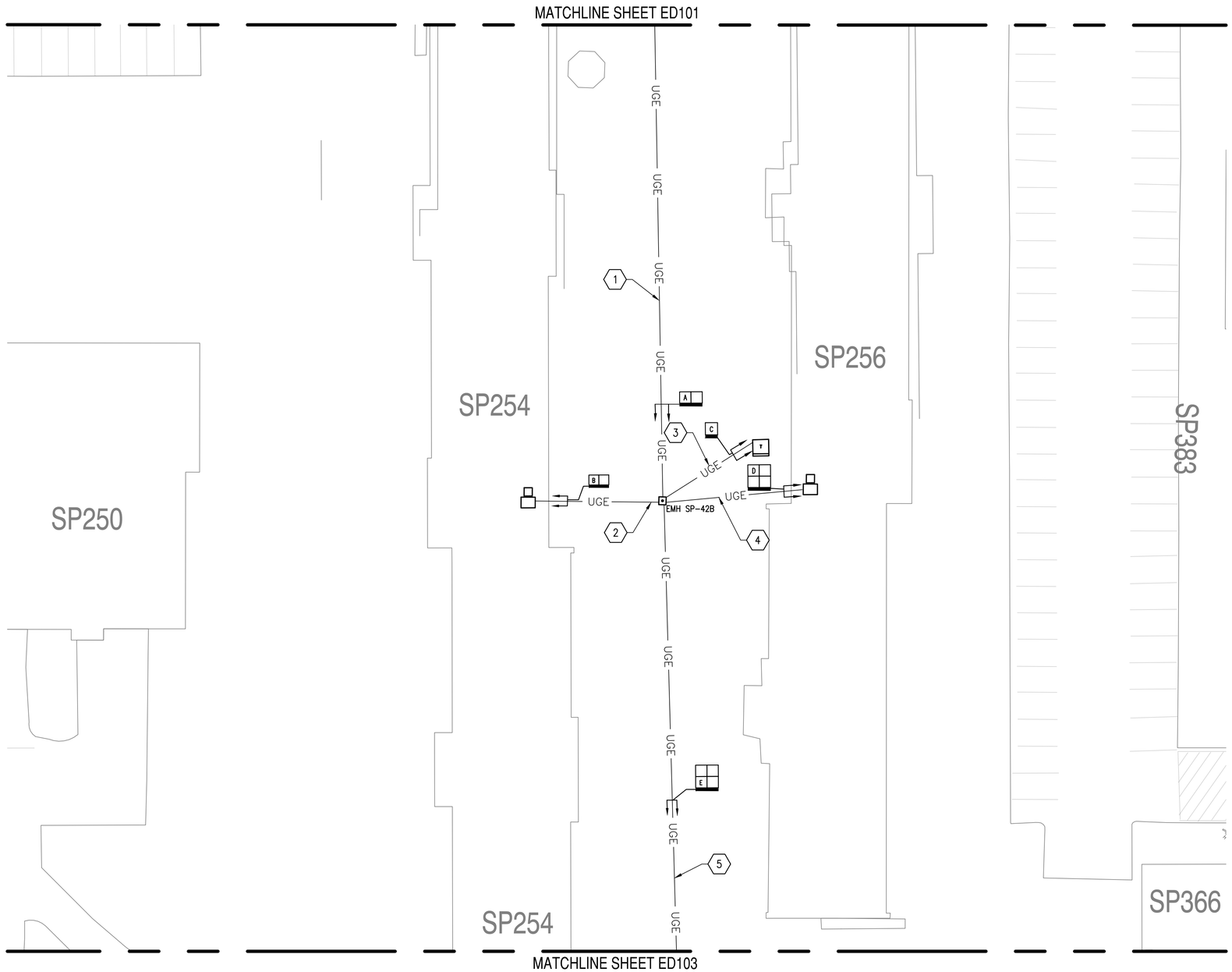
SP-364 REPLACE UNDERGROUND CABLING IN SP AREA

ELECTRICAL SITE PLAN - DEMOLITION

SCALE:	AS NOTED
EPROJECT NO.:	1806349
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,944,661
SHEET	15 OF 32

ED101

DRAWFORM REVISION: 14 SEP 2023



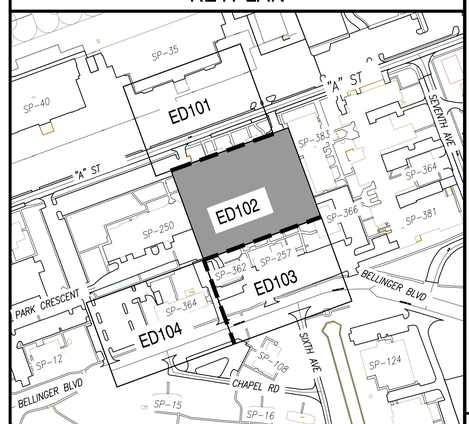
GENERAL SHEET NOTES

1. REFER TO SHEETS ED501 AND ED502 FOR MANHOLE DEMOLITION DETAILS.
2. REFER TO SHEET ED701 FOR DEMOLITION CABLE SCHEDULE.
3. COORDINATE WITH NAVFAC UTILITIES ENERGY MANAGEMENT (UEM), CONTRACTING OFFICER, AND ACTIVITY FOR OUTAGE ON BASE 11.5KV SYSTEMS.

KEYNOTES

1. DEMOLISH CABLE FROM EMH SP-42A TO EMH SP-42B.
2. DEMOLISH CABLE FROM T-SPLICE IN EMH SP-42B TO SP-254 SUBSTATION.
3. DEMOLISH CABLE FROM T-SPLICE IN EMH SP-42B TO SP-256(B) XFMR.
4. DEMOLISH CABLE FROM T-SPLICE IN EMH SP-42B TO BLDG. SP-256(A) SUBSTATION.
5. DEMOLISH CABLE FROM EMH SP-42B TO EMH SP-42C.

KEYPLAN



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

ELECTRICAL SITE PLAN - DEMOLITION

SCALE: 1" = 20'

DATE	
DESCRIPTION	
MARK	

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DRW	CHK
DNB	DNB	JAT

PM/OM	DAVE BURNETTE
BRANCH MANAGER	J. MORTON, P.E.
CHIEF ENG/ARCH	J. MILLER, P.E.
FIRE PROTECTION	N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROCC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION NORFOLK, VIRGINIA

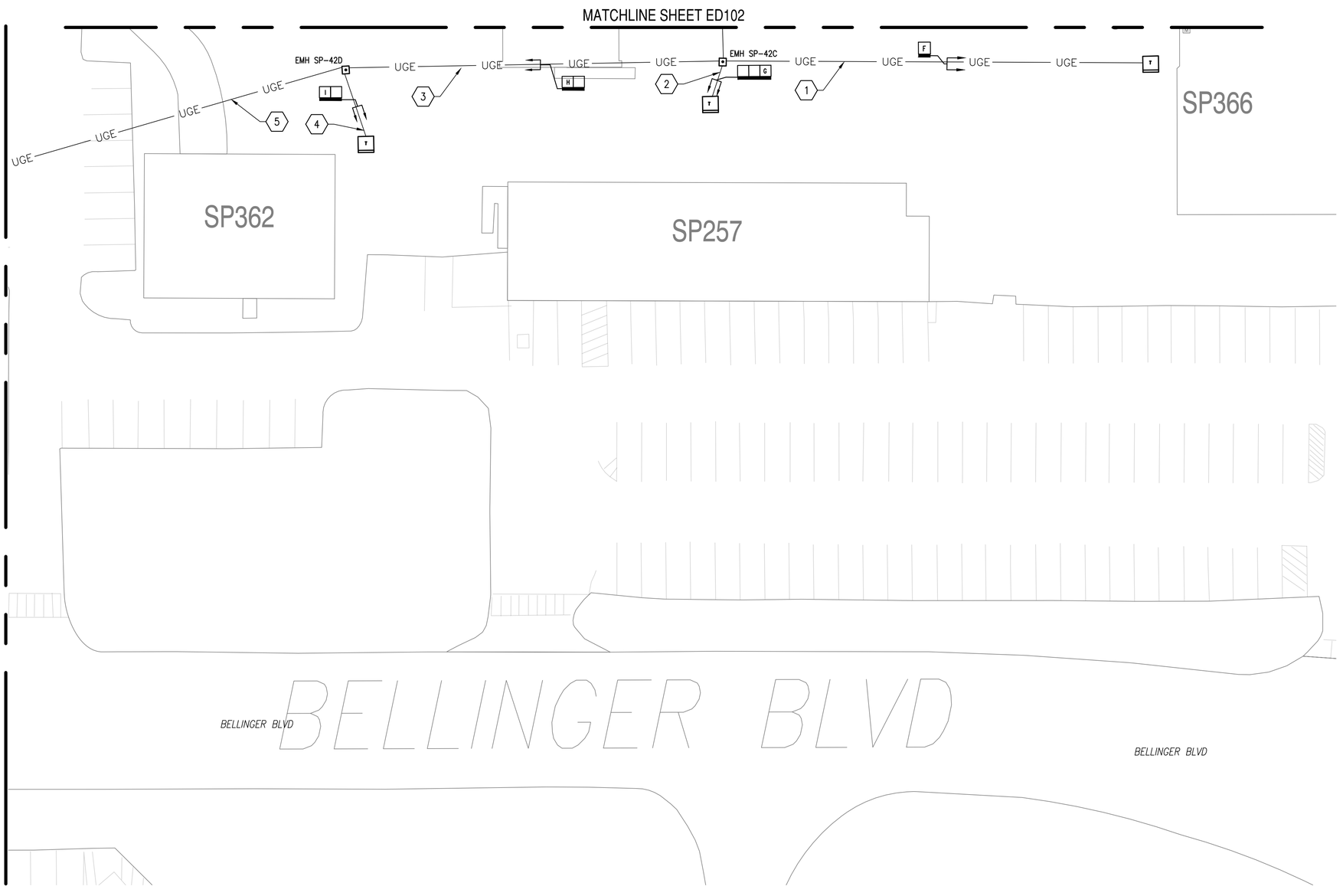
SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

ELECTRICAL SITE PLAN - DEMOLITION

SCALE:	AS NOTED
EPROJECT NO.:	1806349
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,944,662
SHEET	16 OF 32

ED102

DRAWFORM REVISION: 14 SEP 2023



ELECTRICAL SITE PLAN - DEMOLTION

SCALE: 1" = 20'

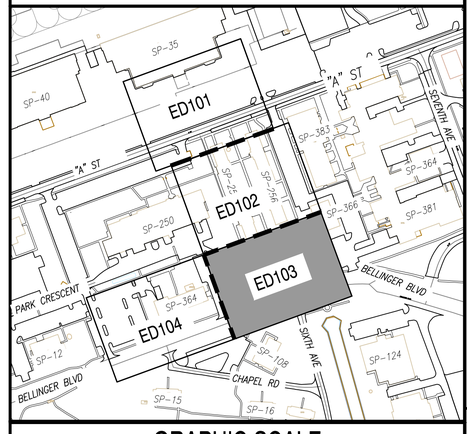
GENERAL SHEET NOTES

1. REFER TO SHEETS ED501 AND ED502 FOR MANHOLE DEMOLITION DETAILS.
2. REFER TO SHEET ED701 FOR DEMOLITION CABLE SCHEDULE.
3. COORDINATE WITH NAVFAC UTILITIES ENERGY MANAGEMENT (UEM), CONTRACTING OFFICER, AND ACTIVITY FOR OUTAGE ON BASE 11.5KV SYSTEMS.

KEYNOTES

1. DEMOLISH CABLE FROM EMH SP-42C TO BLDG SP-366 XFMR.
2. DEMOLISH CABLE FROM EMH SP-42C TO BLDG SP-257 XFMR.
3. DEMOLISH CABLE FROM T-SPICE IN EMH SP-42C TO T-SPLICE IN EMH SP-42D.
4. DEMOLISH CABLE FROM EMH SP-42D TO BLDG SP-362 XFMR.
5. CABLE FROM EMH SP-42D TO BLDG SP-364 IS EXISTING TO REMAIN.

KEYPLAN



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

DATE | DESCRIPTION | MARK

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DRW	CHK
DNB	DNB	JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
MIDLANT - ROICC NORFOLK
NAVAL STATION NORFOLK, VIRGINIA

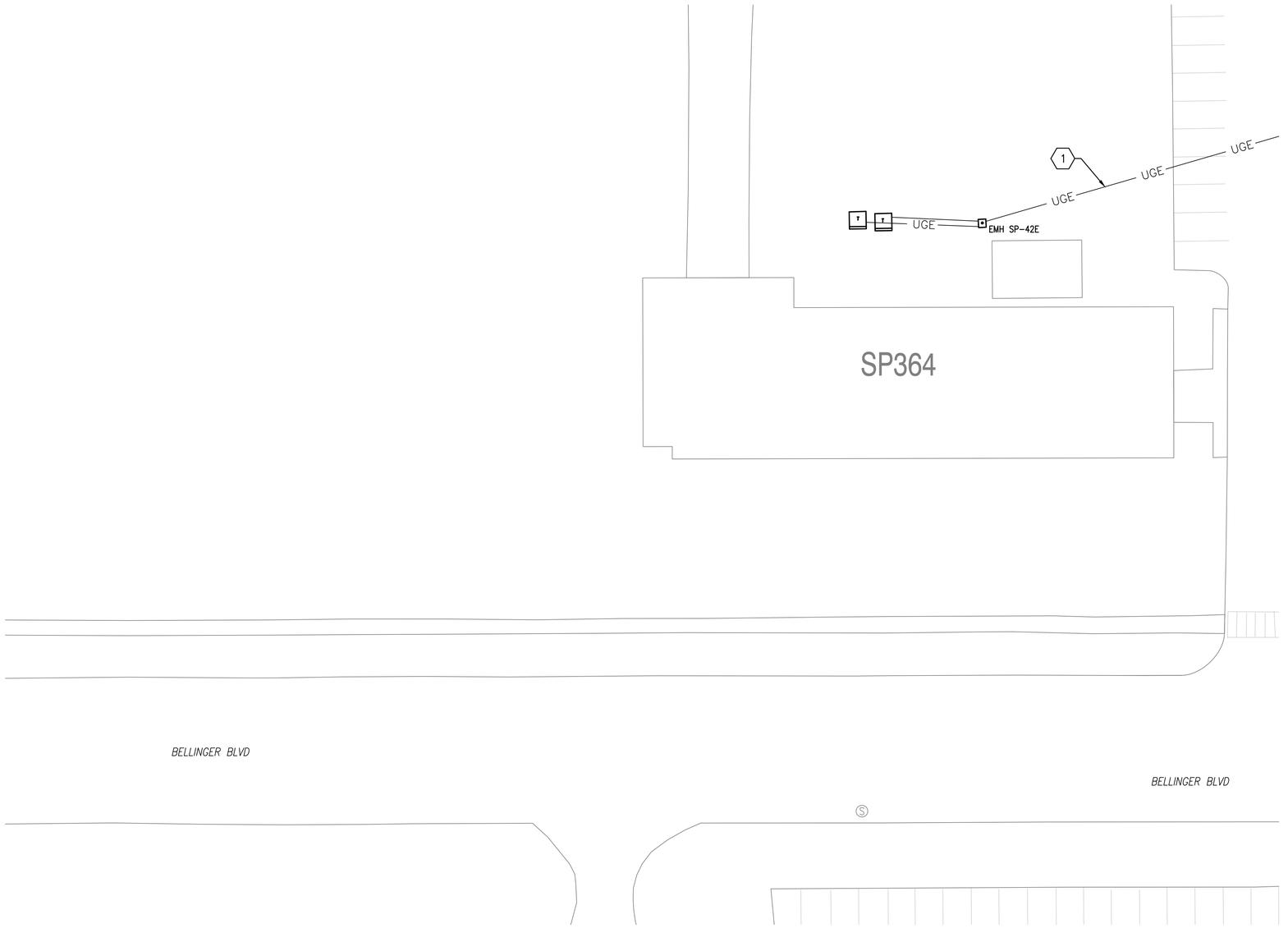
SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

ELECTRICAL SITE PLAN - DEMOLITION

SCALE:	AS NOTED
EPROJECT NO.:	1806349
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,944,663
SHEET	17 OF 32

ED103

DRAWFORM REVISION: 14 SEP 2023



ELECTRICAL SITE PLAN - DEMOLTION

SCALE: 1" = 20'

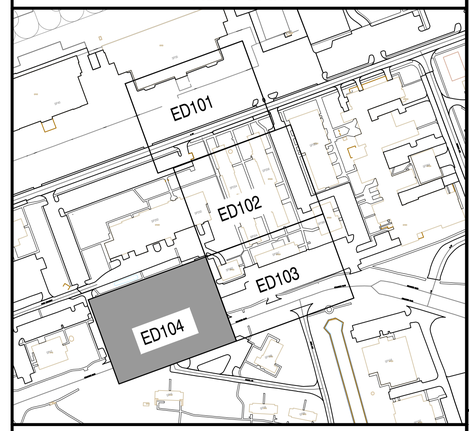
GENERAL SHEET NOTES

1. REFER TO SHEETS ED501 AND ED502 FOR MANHOLE DEMOLITION DETAILS.
2. REFER TO SHEET ED601 FOR DEMOLITION CABLE SCHEDULE.
3. COORDINATE WITH NAVFAC UTILITIES ENERGY MANAGEMENT (UEM), CONTRACTING OFFICER, AND ACTIVITY FOR OUTAGE ON BASE 11.5KV SYSTEMS.

KEYNOTES

1. CABLE FROM EMH SP42D TO BLDG SP-364 IS EXISTING TO REMAIN.

KEYPLAN



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DRW	CHK
DNB	DNB	JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND--MID-ATLANTIC
MIDLANT - ROICC NORFOLK
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

SP-364 REPLACE UNDERGROUND CABLING IN SP AREA

ELECTRICAL SITE PLAN - DEMOLITION

SCALE: AS NOTED

EPROJECT NO.: 1806349

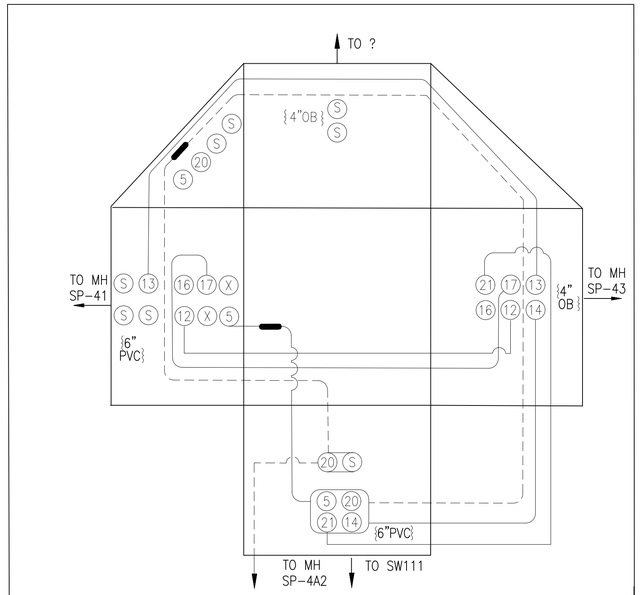
CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,664

SHEET 18 OF 32

ED104

DRAWFORM REVISION: 14 SEP 2023



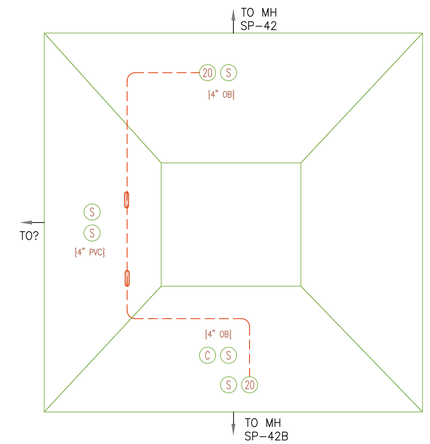
ID	DESCRIPTION	VOLTAGE	SIZE	INSUL	LGTH
5	SW115-3 TO SW111-1	15KV	500MCM	EPR	UNK
16	SW110-3 TO SP381N, SP381W, SP383	15KV	500MCM	UNK	UNK
12	SW165-3 TO SW131-2	15KV	500MCM	EPR	
17	SW115-1 TO SW153-1	15KV	500MCM	EPR	
20	SW111-4 TO SP254, SP256, SP257, SP362, SP364, SP366	15KV	4/0	EPR	UNK
14	SW111-2 TO SW111-1	15KV	500MCM	EPR	UNK
13	SW110-1 TO SW113-2	15KV	500MCM	EPR	
21	SW111-3 TO SW112-2	15KV	500MCM	EPR	

LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT	OPENING SIZE	MANHOLE CONDITION	LOCATION
UNK	UNK	UNK	UNK	UNK	UNK	POOR	SOUTH OF BLDG SP35

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC---> CABLE HOT CAP
---> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE

NO SCALE MANHOLE LAYOUT #SP-42

B1 EXISTING MANHOLE SP-42 DETAIL - DEMOLITION
NOT TO SCALE



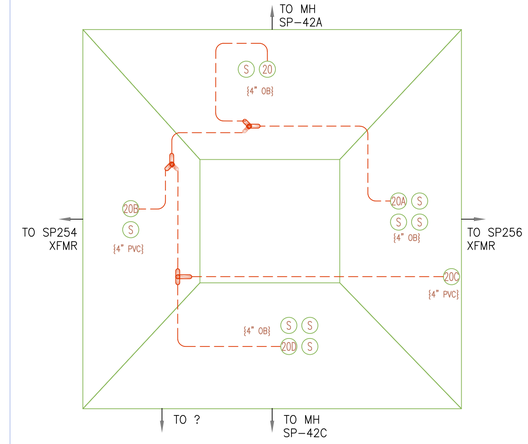
ID	DESCRIPTION	VOLTAGE	SIZE	INSUL	LGTH
20	SW111-4 TO SP254, SP256, SP257, SP362, SP364, SP366 LEAD	UNK	UNK	UNK	UNK

LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT	OPENING SIZE	MANHOLE CONDITION	LOCATION
97"	60"	73"	25"	4"	23"	MUDDY	BETWEEN SP256 AND SP254 IN SIDEWALK MGRS: 18SUF8625489785

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC---> CABLE HOT CAP
---> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE

NO SCALE MANHOLE LAYOUT #SP-42A

B3 EXISTING MANHOLE SP-42A DETAIL - DEMOLITION
NOT TO SCALE



ID	DESCRIPTION	VOLTAGE	SIZE	INSUL	LGTH
20	SW111-4 TO SP254, SP256, SP257, SP362, SP364, SP366 LEAD	UNK	UNK	UNK	UNK
20A	SW111-4 TO SP256A LEAD	UNK	UNK	UNK	UNK
20B	SW111-4 TO SP254 POSSIBLE LEAD	UNK	UNK	UNK	UNK
20C	SW111-4 TO SP256B	UNK	UNK	UNK	UNK
20D	SW111-4 TO SP257, SP362, SP364, SP366	UNK	UNK	UNK	UNK

LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT	OPENING SIZE	MANHOLE CONDITION	LOCATION
98"	60"	72"	25"	5"	23"	FAIR	BETWEEN SP256 AND SP254 IN SIDEWALK MGRS38SUF8627389732

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC---> CABLE HOT CAP
---> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE

NO SCALE MANHOLE LAYOUT #SP-42B

B4 EXISTING MANHOLE SP-42B DETAIL - DEMOLITION
NOT TO SCALE

GENERAL SHEET NOTES

A. REFER TO ELECTRICAL SITE PLANS SHEETS ED101 – ED104 FOR LOCATIONS OF EXISTING ELECTRICAL MANHOLES.

B. REFER TO SHEET ED701 FOR CABLE DEMOLITION SCHEDULE.

(THIS SHEET ONLY) KEYNOTES

1. DEMOLISH EXISTING CONDUCTORS. CONDUCTORS SHALL NOT BE ABANDONED IN DUCTBANKS. AFTER CONDUCTOR REMOVAL, CONTRACTOR SHALL CLEAN DUCTBANK, DRAW MANDREL THROUGH, INSTALL PULL–STRING, AND SEAL CONDUIT ENDS.

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
JANICE D. FISHBURN, P.E.
SATISFACTORY TO DATE 05-05-26

DES	DNB	DRW	DNB	CHK	JAT

PM/DM DAVE BURNETTE
BRANCH MANAGER J. MORTON, P.E.
CHIEF ENG/ARCH J. MILLER, P.E.
FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MID-LANT - ROICC NORFOLK
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – MID-ATLANTIC
NAVAL STATION – NORFOLK, VA
NAVAL STATION
NORFOLK, VIRGINIA

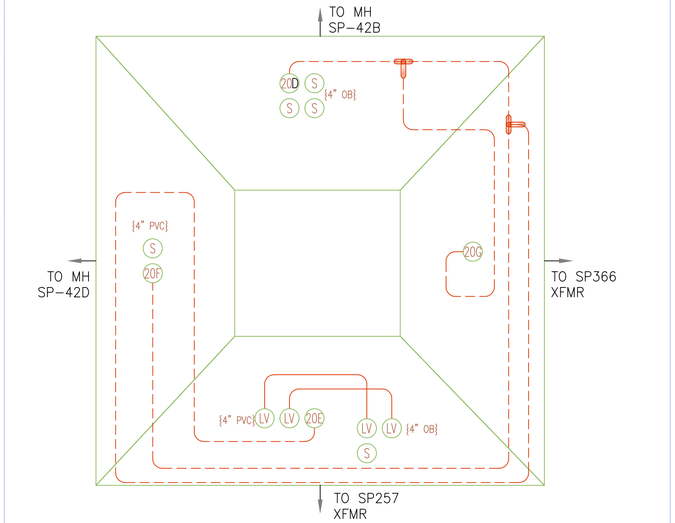
SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

EXISTING MANHOLE DETAILS - DEMOLITION

SCALE: AS NOTED
EPROJECT NO.: 1806349
CONSTR. CONTR. NO. N/A
NAVFAC DRAWING NO. 12,944,665
SHEET 19 OF 32

ED501

DRAWFORM REVISION: 14 SEP 2023



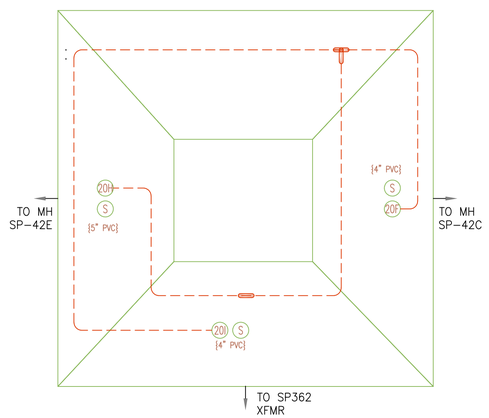
ID	DESCRIPTION	VOLTAGE	SIZE	INSUL	LGTH
20D	SW111-4 TO SP257, SP362, SP364, SP366	UNK	UNK	UNK	UNK
LV	LOW VOLTAGE (600V) UNMARKED CABLE	600V	#2	UNK	UNK
20G	SW111-4 TO SP366	UNK	UNK	UNK	UNK
20E	SW111-4 TO SP257	UNK	UNK	UNK	UNK
20F	SW111-4 TO SP362, SP364	UNK	UNK	UNK	UNK

LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT	OPENING SIZE	MANHOLE CONDITION	LOCATION
96"	60"	73"	25"	5"	23"	FAIR	END OF SIDEWALK BETWNN SP254 AND SP254 MGRS: 18SUF8628989685

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC---> CABLE HOT CAP
---> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE
N
NO SCALE

MANHOLE LAYOUT #SP-42C

B1 MANHOLE SP-42C DETAIL - DEMOLITION
NOT TO SCALE



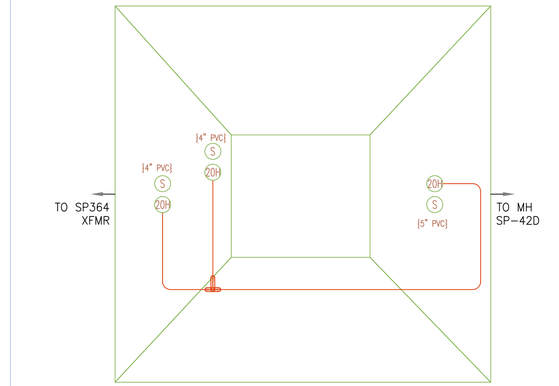
ID	DESCRIPTION	VOLTAGE	SIZE	INSUL	LGTH
20H	SW111-4 TO SP362	UNK	UNK	UNK	UNK
20H	SW111-4 TO SP364 cable was replaced in 2022	UNK	UNK	UNK	UNK
20F	SW111-4 TO SP362, SP364	UNK	UNK	UNK	UNK

LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT	OPENING SIZE	MANHOLE CONDITION	LOCATION
97"	72"	111"?	25 1/2"	20"	24"	VERY MUDDY	NORTH OF SP362 MGRS: 18SUF8625289672

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC---> CABLE HOT CAP
---> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE
N
NO SCALE

MANHOLE LAYOUT #SP-42D

B3 MANHOLE SP-42D DETAIL - DEMOLITION
NOT TO SCALE



ID	DESCRIPTION	VOLTAGE	SIZE	INSUL	LGTH
20H	SW111-4 TO SP364 – EXISTING TO REMAIN	UNK	UNK	UNK	UNK

LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT	OPENING SIZE	MANHOLE CONDITION	LOCATION
102"	72"	79"	32"	22 1/2"	30"	POOR	GRASS BY SP364 MGRS: 18SUF8620189637

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC---> CABLE HOT CAP
---> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE
N
NO SCALE

MANHOLE LAYOUT #SP-42E

B4 MANHOLE SP-42E DETAIL - EXISTING/DEMOLITION
NOT TO SCALE

GENERAL SHEET NOTES

A. REFER TO ELECTRICAL SITE PLANS SHEETS ED101 – ED104 FOR LOCATIONS OF EXISTING ELECTRICAL MANHOLES.
B. REFER TO SHEET ED701 FOR CABLE DEMOLITION SCHEDULE.

(THIS SHEET ONLY) KEYNOTES

1. DEMOLISH EXISTING CONDUCTORS. CONDUCTORS SHALL NOT BE ABANDONED IN DUCTBANKS. AFTER CONDUCTOR REMOVAL, CONTRACTOR SHALL CLEAN DUCTBANK, DRAW MANDREL THROUGH, INSTALL PULL-STRING, AND SEAL CONDUIT ENDS.

DATE | DESCRIPTION | MARK

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 22 Jan 26

ACTIVITY
JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DNB	DRW	DNB	CHK	JAT

PM/DM DAVE BURNETTE
BRANCH MANAGER J. MORTON, P.E.
CHIEF ENG/ARCH J. MILLER, P.E.
FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROICC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND--MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

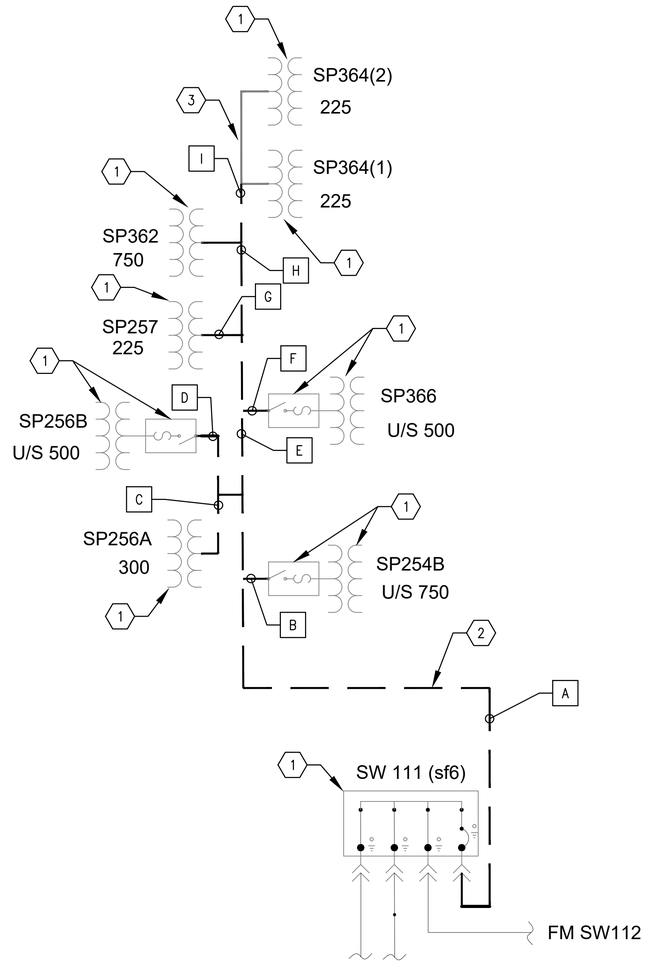
NAVAL STATION
NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA
EXISTING MANHOLE DETAILS - DEMOLITION

SCALE: AS NOTED
EPROJECT NO.: 1806349
CONSTR. CONTR. NO. N/A
NAVFAC DRAWING NO. 12,944,666
SHEET 20 OF 32

ED502

DRAWFORM REVISION: 14 SEP 2023



PARTIAL ONE-LINE DIAGRAM - DEMOLITION

NOT TO SCALE

KEYNOTES

1. EXISTING EQUIPMENT TO REMAIN.
2. DEMOLISH CABLING. REFER TO SHEET ED701 FOR CABLE SCHEDULE.
3. EXISTING CABLE TO REMAIN.

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DRW	CHK
DNB	DNB	JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROICC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND--MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION
NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

ONE-LINE DIAGRAM - DEMOLITION

SCALE: AS NOTED

EPROJECT NO.: 1806349

CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,668

SHEET 21 OF 32

ED601

DRAWFORM REVISION: 14 SEP 2023

DEMOLITION CABLE SCHEDULE

CABLE IDENTIFICATION	DESCRIPTION	CONDUIT SIZE (INCHES)	VOLTAGE	PHASE CONDUCTORS		EQUIPMENT GROUND		REMARKS
				SIZE	INSULATION	SIZE	INSULATION	
A	SW111 WAY#4 TO T-SPLICE IN EMH SP42B	4"	15KV	3-4/0	EPR	1-#2	EPR	DEMOLISH CABLE FROM SW111 WAY #4 THROUGH EMH42 AND EMH42A TO EMH42B
B	T-SPLICE IN EMH SP42B TO SP-254 SUBSTATION	4"	15KV	3-4/0	EPR	1-#2	EPR	DEMOLISH CABLE FROM T-SPLICE TO SP-254 SUBSTATION
C	T-SPLICE IN EMH SP42B TO SP-256(B) XFMR	4"	15KV	3-4/0	EPR	1-#2	EPR	DEMOLISH CABLE FROM T-SPLICE IN EMH42B TO SP-256(B) XFMR
D	T-SPLICE IN EMH SP42B TO SP-256(A) SUBSTATION	4"	15KV	3-4/0	EPR	1-#2	EPR	DEMOLISH CABLE FROM T-SPLICE IN EMH42B TO SP-256(A) SUBSTATION
E	T-SPLICE IN EMH SP42B TO T-SPLICE IN EMH SP42C	4"	15KV	3-4/0	EPR	1-#2	EPR	DEMOLISH CABLE FROM FIRST T-SPLICE IN EMH42B TO FIRST T-SPLICE IN EMH SP42C
F	T-SPLICE IN EMH SP42C TO SP-366 SUBSTATION	4"	15KV	3-4/0	EPR	1-#2	EPR	DEMOLISH CABLE FROM FIRST T-SPLICE IN EMH42C TO SP-366 SUBSTATION
G	SECOND T-SPLICE IN EMH SP42C TO SP-257 XFMR	4"	15KV	3-4/0	EPR	1-#2	EPR	DEMOLISH CABLE FROM SECOND T-SPLICE IN EMH42C TO SP-257 XFMR
H	SECOND T-SPLICE IN EMH SP42C TO EMH SP42D	4"	15KV	3-4/0	EPR	1-#2	EPR	DEMOLISH CABLE FROM SECOND T-SPLICE IN EMH42C TO EMH SP42D
I	T-SPLICE IN EMH SP42D TO SP-362 XFMR	4"	15KV	3-4/0	EPR	1-#2	EPR	DEMOLISH CABLE FROM T-SPLICE IN EMH42D TO SP-362 XFMR

DATE | DESCRIPTION | MARK

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES DNB | DRW DNB | CHK JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROCC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND–MID-ATLANTIC
NAVAL STATION – NORFOLK, VA

NAVAL STATION
NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

CABLE SCHEDULE - DEMOLITION

SCALE: AS NOTED

EPROJECT NO.: 1806349

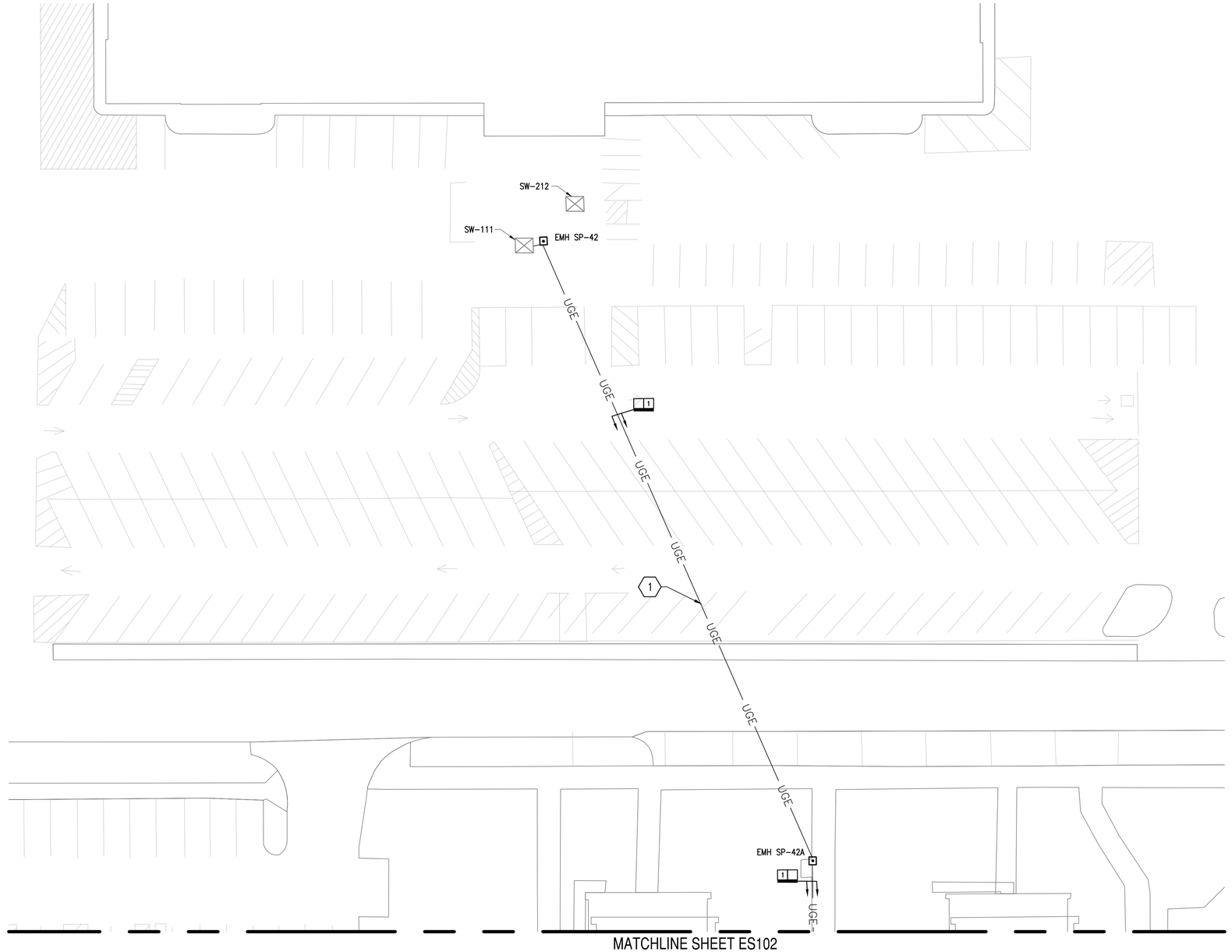
CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,667

SHEET 22 OF 32

ED701

DRAWFORM REVISION: 14 SEP 2023



ELECTRICAL SITE PLAN

SCALE: 1" = 20'

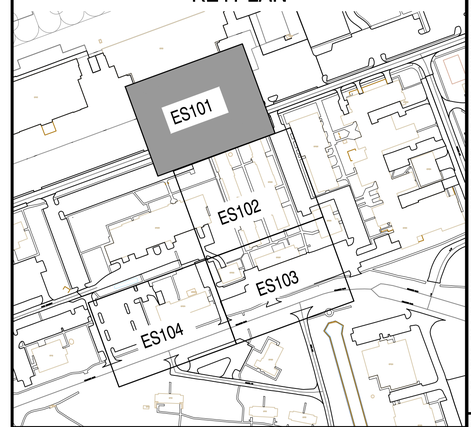
GENERAL SHEET NOTES

1. REFER TO SHEETS ES501 AND ES502 FOR MANHOLE DETAILS.
2. REFER TO SHEET ES701 FOR CABLE SCHEDULE.
3. COORDINATE WITH NAVFAC UTILITIES ENERGY MANAGEMENT (UEM), CONTRACTING OFFICER, AND ACTIVITY FOR OUTAGE ON BASE 11.5KV SYSTEMS.

KEYNOTES

1. PROVIDE CABLE FROM SW-111 WAY#4 TO TERMINATION CABINET (JB-1) WAY #1 IN EXISTING CONDUIT. REFER TO SHEET ES102 FOR TERMINATION CABINET LOCATION.

KEYPLAN



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES DNB | DRW DNB | CHK JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROICC NORFOLK
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
NAVAL STATION - NORFOLK, VA
NAVAL STATION NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

ELECTRICAL SITE PLAN

SCALE: AS NOTED

EPROJECT NO.: 1806349

CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,669

SHEET 23 OF 32

ES101

DRAWFORM REVISION: 14 SEP 2023

ELECTRICAL SITE PLAN

SCALE: 1" = 20'

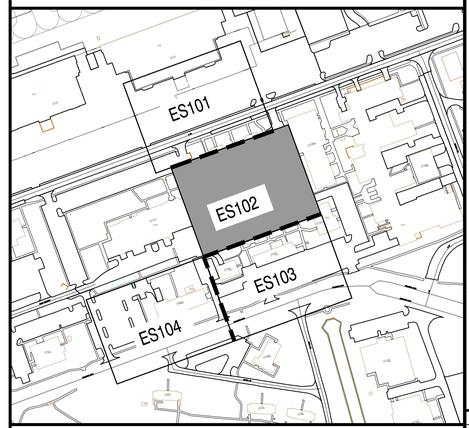
GENERAL SHEET NOTES

1. REFER TO SHEETS ES501 AND ES502 FOR MANHOLE DETAILS.
2. REFER TO SHEET ES701 FOR CABLE SCHEDULE.
3. ALL REQUIRED POWER OUTAGE REQUESTS MUST BE MADE AND COORDINATED 15 DAYS IN ADVANCE WITH THE GOVERNMENT.
4. REFER TO SHEET ES504 FOR DUCTBANK DETAILS.

KEYNOTES

1. PROVIDE A PAD MOUNTED 6-WAY, 600A ABOVEGROUND TERMINATION CABINET. REFER TO SHEET ES503 FOR DETAILS.
2. PROVIDE FOUR 3/4" X 10' GROUND RODS AT EACH CORNER OF PAD WITH #4/0 BARE COPPER GROUND LOOP ENCIRCLING PAD AND CONNECTED TO CABINET EQUIPMENT GROUND. MINIMUM 18" BELOW FINISHED GRADE.
3. PROVIDE A 5" 6-WAY CONCRETE ENCASED DUCTBANK FROM EMH SP-42B TO TERMINATION CABINET (JB-1).
4. PROVIDE CABLE FROM SW111 WAY #4 TO TERMINATION CABINET (JB-1) WAY #1 IN EXISTING CONDUIT.
5. PROVIDE A 5" 1-WAY CONCRETE ENCASED DUCTBANK FROM EMH SP-42B TO SP-256(B) XFMR. COORDINATE PLACEMENT WITH EXISTING DUCTBANK. PROVIDE CABLE FROM TERMINATION CABINET (JB-1) WAY #3 TO SP-256(B) XFMR.
6. PROVIDE CABLE FROM TERMINATION CABINET (JB-1) WAY #2 TO SP-254 SUBSTATION IN EXISTING CONDUIT.
7. PROVIDE CABLE FROM TERMINATION CABINET (JB-1) WAY #4 SP-256(A) SUBSTATION IN EXISTING CONDUIT.
8. PROVIDE CABLE FROM TERMINATION CABINET (JB-1) WAY #5 TO TERMINATION CABINET (JB-2) WAY #1 IN EXISTING CONDUIT.

KEYPLAN



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E

SATISFACTORY TO DATE 05-05-26

DES DNB | DRW DNB | CHK JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC MIDLANT - ROICC NORFOLK
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

ELECTRICAL SITE PLAN

SCALE: AS NOTED

EPROJECT NO.: 1806349

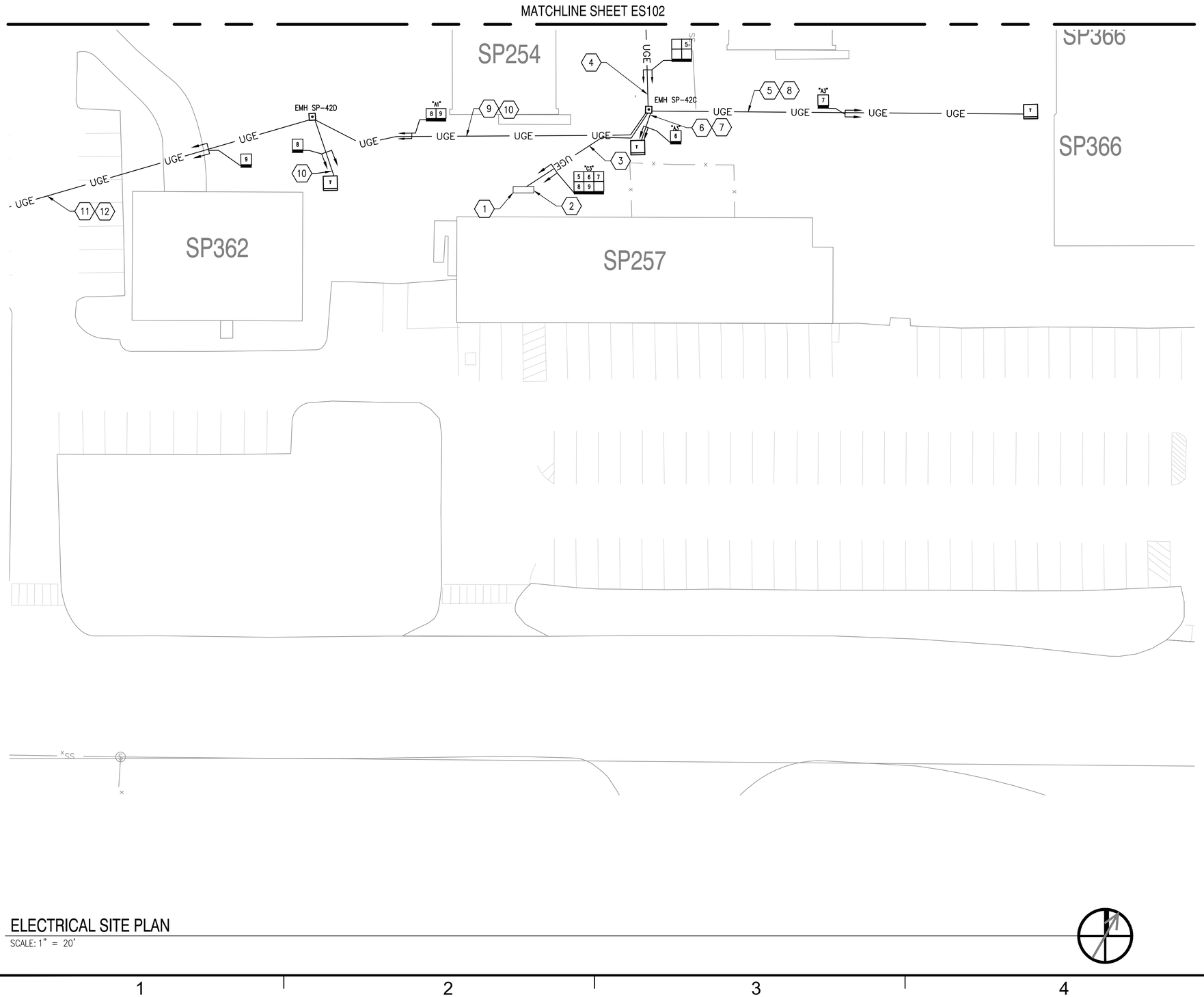
CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,670

SHEET 24 OF 32

ES102

DRAWFORM REVISION: 14 SEP 2023



ELECTRICAL SITE PLAN

SCALE: 1" = 20'

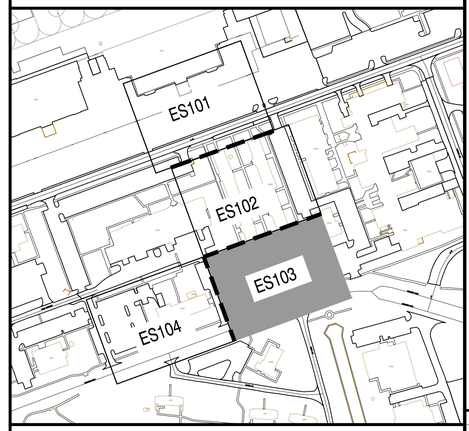
GENERAL SHEET NOTES

1. REFER TO SHEETS 5S501 AND ES502 FOR MANHOLE DETAILS.
2. REFER TO SHEET ES701 FOR CABLE SCHEDULE.
3. COORDINATE WITH NAVFAC UTILITIES ENERGY MANAGEMENT (UEM), CONTRACTING OFFICER, AND ACTIVITY FOR OUTAGE ON BASE 11.5KV SYSTEMS.

KEYNOTES

1. PROVIDE A PAD MOUNTED, 5-WAY, 600A ABOVEGROUND TERMINATION CABINET. REFER TO SHEET ES503 FOR DETAILS.
2. PROVIDE FOUR 3/4" X 10' GROUND RODS AT EACH CORNER OF PAD WITH #4/0 BARE COPPER GROUND LOOP ENCIRCLING PAD AND CONNECTED TO CABINET EQUIPMENT GROUND. MINIMUM 18" BELOW FINISHED GRADE.
3. PROVIDE A 6-WAY CONCRETE ENCASED DUCTBANK WITH 5" CONDUITS FROM EMH SP-42C TO TERMINATION CABINET (JB-2).
4. PROVIDE CABLE FROM TERMINATION CABINET (JB-1) WAY #5 TO TERMINATION CABINET (JB-2) WAY #1 IN EXISTING CONDUIT.
5. PROVIDE A 1-WAY CONCRETE ENCASED DUCTBANK WITH 5" CONDUIT FROM EMH SP-42C TO SP-366 XFMR.
6. PROVIDE A 1-WAY CONCRETE ENCASED DUCTBANK WITH 5" CONDUIT FROM EMH SP-42C TO SP-257 XFMR.
7. PROVIDE CABLE FROM TERMINATION CABINET (JB-2) WAY # 2 TO BLDG. SP-257 XFMR.
8. PROVIDE CABLE FROM TERMINATION CABINET (JB-2) WAY #3 TO BLDG. S-366 XFMR.
9. PROVIDE A 2-WAY CONCRETE ENCASED DUCTBANK WITH 5" CONDUITS FROM EMH SP-42C TO EMH SP-42D.
10. PROVIDE CABLE FROM TERMINATION CABINET (JB-2) WAY #4 TO BLDG. SP-362 XFMR.
11. EXISTING CABLE IN EMH SP-42D TO SP-364 IS EXISTING TO REMAIN.
12. PROVIDE CABLE FROM TERMINATION CABINET (JB-2) WAY #5 TO BLDG. SP-364 XFMR IN EXISTING CONDUIT. SPLICE CABLE FROM JB-2 WAY #5 TO EXISTING CABLE TO REMAIN IN EMH SP42-D.

KEYPLAN



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DRW	CHK
DNB	DNB	JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROICC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
NAVAL STATION - NORFOLK, VA.

NAVAL STATION NORFOLK, VIRGINIA

SP-364 REPLACE UNDERGROUND CABLING IN SP AREA

ELECTRICAL SITE PLAN

SCALE: AS NOTED

EPROJECT NO.: 1806349

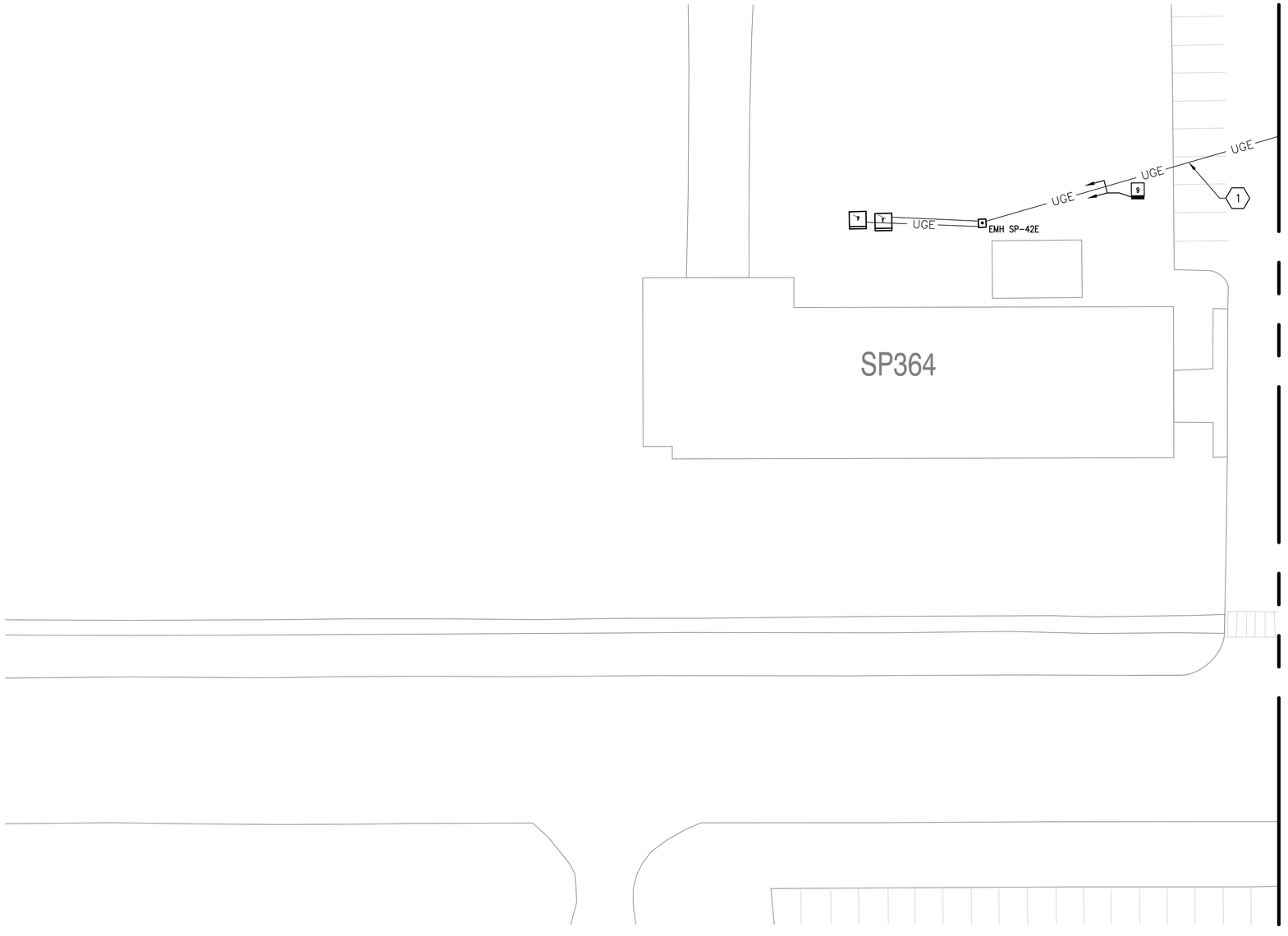
CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,671

SHEET 25 OF 32

ES103

DRAWFORM REVISION: 14 SEP 2023



ELECTRICAL SITE PLAN

SCALE: 1" = 20'

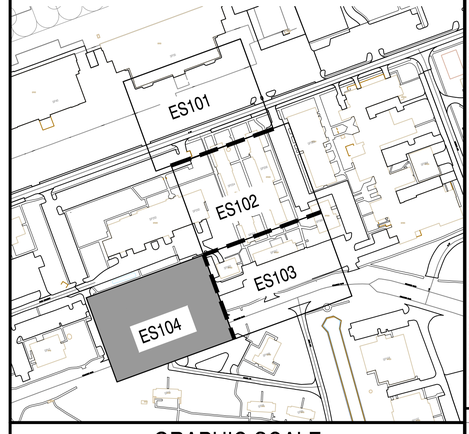
GENERAL SHEET NOTES

1. REFER TO SHEETS ES501 AND ES502 FOR MANHOLE DETAILS.
2. REFER TO SHEET ES701 FOR CABLE SCHEDULE.
3. COORDINATE WITH NAVFAC UTILITIES ENERGY MANAGEMENT (UEM), CONTRACTING OFFICER, AND ACTIVITY FOR OUTAGE ON BASE 11.5KV SYSTEMS.

KEYNOTES

1. CABLE FROM EMH SP-42D TO BLDG SP-364 IS EXITING TO REMAIN.

KEYPLAN



GRAPHIC SCALE

1"=20' 0' 10' 20' 40'

DATE | DESCRIPTION | MARK

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DNB	DRW	DNB	CHK	JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROICC NORFOLK
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND-MID-ATLANTIC
NAVAL STATION - NORFOLK, VA
NAVAL STATION NORFOLK, VIRGINIA

SP-364 REPLACE UNDERGROUND CABLING IN SP AREA

ELECTRICAL SITE PLAN

SCALE: AS NOTED

EPROJECT NO.: 1806349

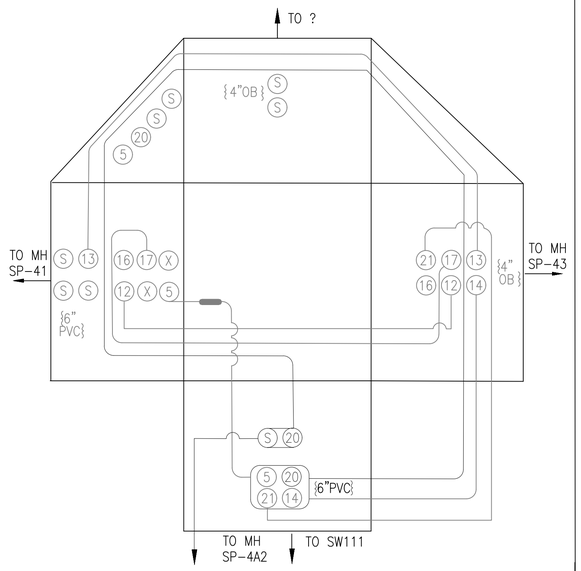
CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,672

SHEET 26 OF 32

ES104

DRAWFORM REVISION: 14 SEP 2023



ID	DESCRIPTION	VOLTAGE	SIZE	INSUL	LGTH
5	SW115-3 TO SW111-1	15KV	4/0	EPR	UNK
16	SW110-3 TO SP381N, SP381W, SP383	15KV	4/0	UNK	UNK
12	SW165-3 TO SW131-2	15KV	4/0	EPR	UNK
17	SW115-1 TO SW153-1	15KV	4/0	EPR	UNK
20	SW111-4 TO JB-1 WAY #1	15KV	4/0	EPR	UNK
14	SW111-2 TO SW111-1	15KV	4/0	EPR	UNK
13	SW110-1 TO SW113-2	15KV	4/0	EPR	UNK
21	SW111-3 TO SW112-2	15KV	4/0	EPR	UNK

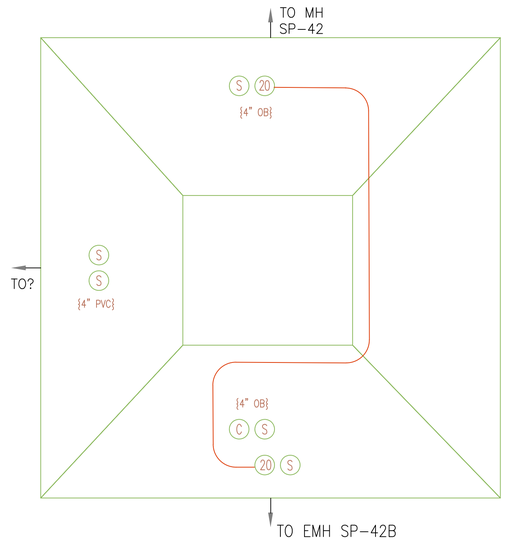
LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT	OPENING SIZE	MANHOLE CONDITION	LOCATION
UNK	UNK	UNK	UNK	UNK	UNK	POOR	SOUTH OF BLDG SP35

\---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC--> CABLE HOT CAP
==> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE

N NO SCALE

MANHOLE LAYOUT #SP-42

B1 MANHOLE SP-42 DETAIL
NTS



ID	DESCRIPTION	VOLTAGE	SIZE	INSUL	LGTH
20	SW111-4 TO JB-1 WAY#1	15KV	4/0	EPR	UNK

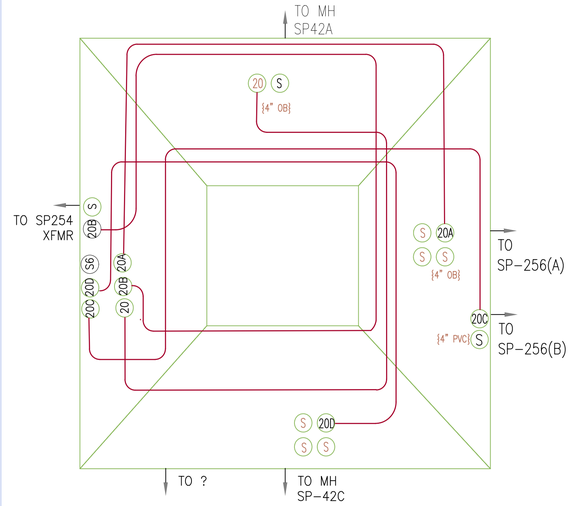
LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT	OPENING SIZE	MANHOLE CONDITION	LOCATION
97"	60"	73"	25"	4"	23"	MUDDY	BETWEEN SP256 AND SP254 IN SIDEWALK MGRS: 18SUF8625489785

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC--> CABLE HOT CAP
==> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE

N NO SCALE

MANHOLE LAYOUT #SP-42A

B2 MANHOLE SP-42A DETAIL
NTS



ID	DESCRIPTION	VOLTAGE	SIZE	INSUL	LGTH
20	SW111-4 TO JB-1 WAY #1	15KV	4/0	EPR	UNK
20A	JB-1 WAY # 3 TO SP256(A) BLDG XFMR	15KV	4/0	EPR	UNK
20B	JB-1 WAY#2 TO SP254 BLDG XFMR	15KV	4/0	EPR	UNK
20C	JB-1 WAY#4 TO SP256(B)	15KV	4/0	EPR	UNK
20D	JB-1 WAY#5 TO EMH SP42C	15KV	4/0	EPR	UNK
S6	JB-1 WAY #6 (FUTURE USE)	15KV	4/0	EPR	UNK
		15KV	4/0	EPR	UNK
		15KV	4/0	EPR	UNK
		15KV	4/0	EPR	UNK
		15KV	4/0	EPR	UNK

LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT	OPENING SIZE	MANHOLE CONDITION	LOCATION
98"	60"	72"	25"	5"	23"	FAIR	BETWEEN SP256 AND SP254 IN SIDEWALK MGR38SUF8627389732

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC--> CABLE HOT CAP
==> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE

N NO SCALE

MANHOLE LAYOUT #20-42B

B4 MANHOLE SP-42B DETAIL
NTS

GENERAL SHEET NOTES

A. REFER TO PARTIAL ELECTRICAL SITE PLANS SHEETS ES101 – ES 104 FOR LOCATIONS OF EXISTING ELECTRICAL MANHOLES.

B. REFER TO SHEET ES702 FOR CABLE SCHEDULE.

(THIS SHEET ONLY) KEYNOTES

DATE | DESCRIPTION | MARK

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES DNB | DRW DNB | CHK JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROIC2 NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND–MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION

NORFOLK, VIRGINIA

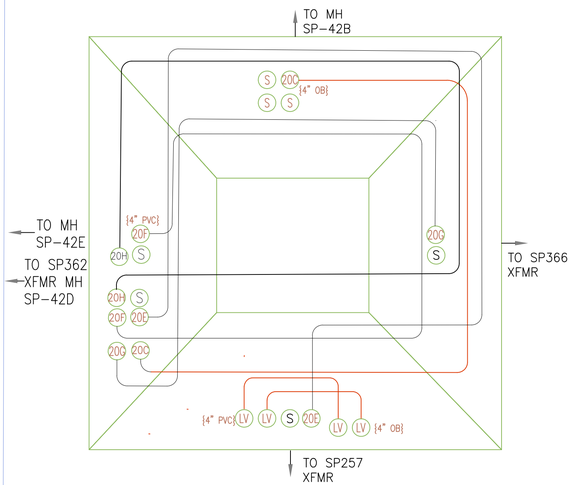
SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

MANHOLE DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1806349
CONSTR. CONTR. NO. N/A
NAVFAC DRAWING NO. 12,944,673
SHEET 27 OF 32

ES501

DRAWFORM REVISION: 14 SEP 2023



ID	DESCRIPTION	VOLTAGE	SIZE	INSULL	LGTH
20C	JB-1 WAY #5 TO JB-2 WAY #1	15KV	4/0	EPR	UNK
LV	LOW VOLTAGE (600V) UNMARKED CABLE	600V	#2	UNK	UNK
20E	JB-2 WAY#2 TO SP-257	15KV	4/0	EPR	UNK
20F	JB-2 WAY #4 TO EMH SP42D	15KV	4/0	EPR	UNK
20G	JB-2 WAY #3 TO SP-366	15KV	4/0	EPR	UNK
20H	JB-2 WAY #5 TO EMH SP42D	15KV	4/0	EPR	UNK
		15KV	4/0	EPR	UNK
		15KV	4/0	EPR	UNK
		15KV	4/0	EPR	UNK
		15KV	4/0	EPR	UNK
		15KV	4/0	EPR	UNK

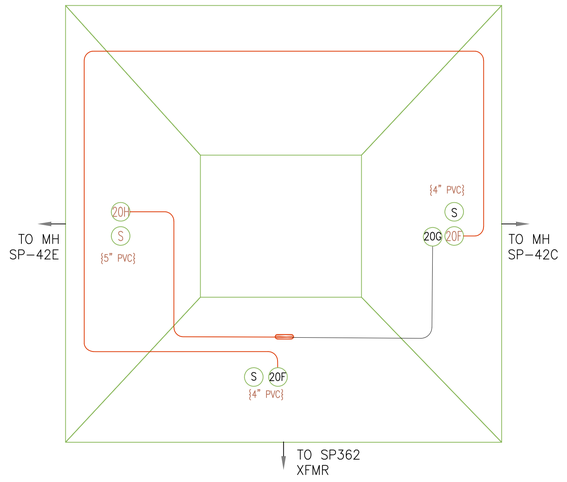
LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT OPENING SIZE	MANHOLE CONDITION	LOCATION
96"	60"	73"	25"	5" 23"	FAIR	END OF SIDEWALK BETWNN SP254 AND SP254 MGRS: 18SUF8628989685

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC--> CABLE HOT CAP
--> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE

N NO SCALE

MANHOLE LAYOUT #SP-42C

B1 MANHOLE SP-42C DETAIL
NTS



ID	DESCRIPTION	VOLTAGE	SIZE	INSULL	LGTH
20H	EXISTING CABLE TO SP-364 (REPLACED IN 2022)	15KV	4/0	EPR	UNK
20F	JB-2 WAY #4 TO EMH SP 42C	15KV	4/0	EPR	UNK
20G	JB-2 WAY #5 TO EMH SP 42D	15KV	4/0	EPR	UNK

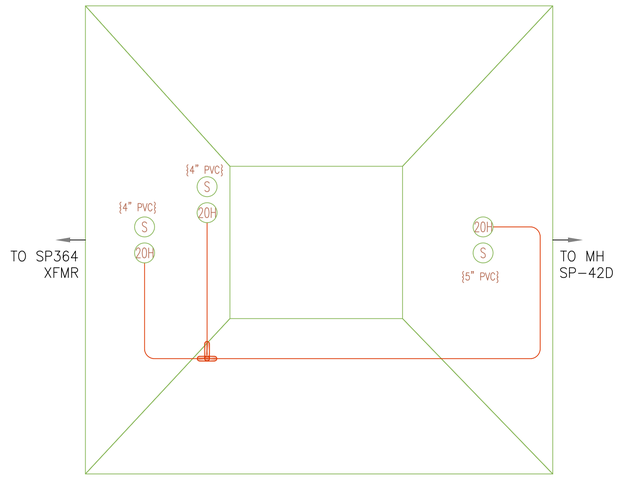
LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT OPENING SIZE	MANHOLE CONDITION	LOCATION
97"	72"	11"?	25 1/2"	20" 24"	VERY MUDDY	NORTH OF SP362 MGRS: 18SUF8625289672

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC--> CABLE HOT CAP
--> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE

N NO SCALE

MANHOLE LAYOUT #SP-42D

B2 MANHOLE SP-42D DETAIL
NTS



ID	DESCRIPTION	VOLTAGE	SIZE	INSULL	LGTH
20H	JB-2 WAY #5 TO SP-364 XFMR	11.5KV	4/0	EPR	UNK

LENGTH	WIDTH	HEIGHT	LID SIZE	THROAT OPENING SIZE	MANHOLE CONDITION	LOCATION
102"	72"	79"	32"	22 1/2" 30"	POOR	GRASS BY SP364 MGRS: 18SUF8620189637

X---> BLOCKED CONDUITS R---> RODDED CONDUITS
S---> SPARE CONDUITS HC--> CABLE HOT CAP
--> SPLICE C---> CUT CABLE
M---> CLEANED CONDUITS G---> GROUND CABLE

N NO SCALE

MANHOLE LAYOUT #SP-42E

B4 MANHOLE SP-42E DETAIL
NTS

GENERAL SHEET NOTES

A. REFER TO PARTIAL ELECTRICAL SITE PLANS SHEETS ES101 – ES 104 FOR LOCATIONS OF EXISTING ELECTRICAL MANHOLES.

B. REFER TO SHEET E-601 FOR CABLE SCHEDULE.

⬡ (THIS SHEET ONLY) KEYNOTES

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
JANICE D. FISHBURN, P.E.
SATISFACTORY TO DATE 05-05-26

DES	DNB	DRW DNB	CHK JAT

PM/DM	DAVE BURNETTE
BRANCH MANAGER	J. MORTON, P.E.
CHIEF ENG/ARCH	J. MILLER, P.E.
FIRE PROTECTION	N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROIC2 NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND–MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION NORFOLK, VIRGINIA

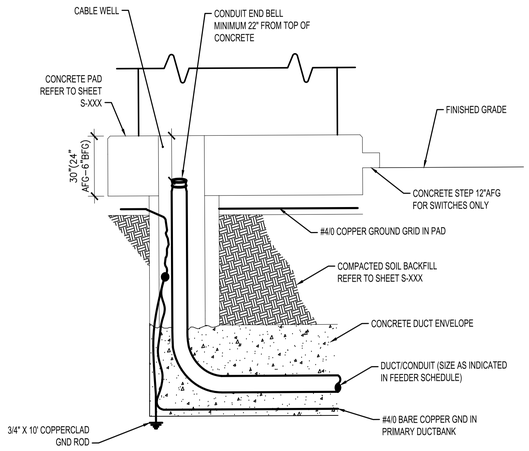
SP-364 REPLACE UNDERGROUND CABLING IN SP AREA

MANHOLE DETAILS

SCALE:	AS NOTED
EPROJECT NO.:	1806349
CONSTR. CONTR. NO.	N/A
NAVFAC DRAWING NO.	12,944,674
SHEET	28 OF 32

ES502

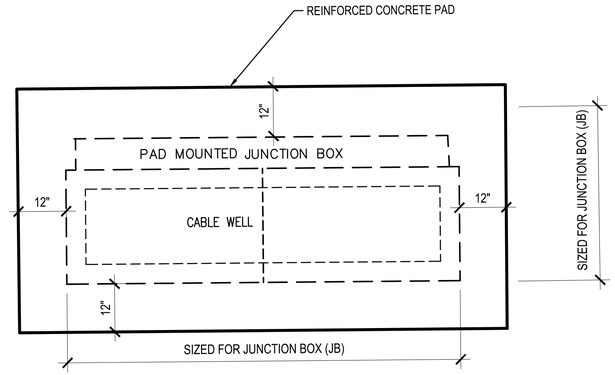
DRAWFORM REVISION: 14 SEP 2023



C1 TERMINATION CABINET SECTION THROUGH CABLE WELL

SCALE: NONE

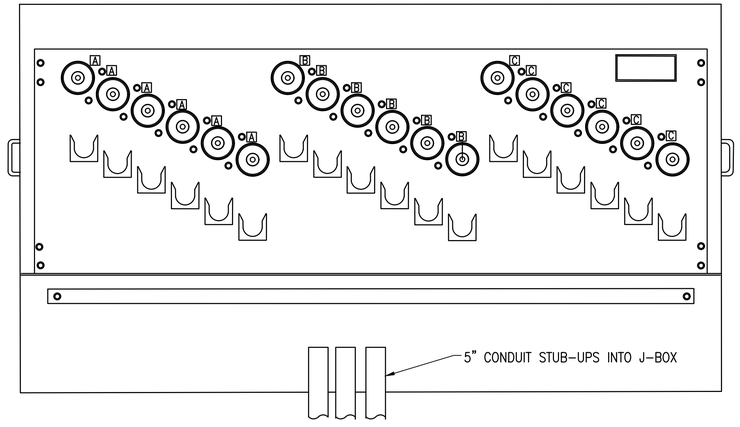
ES102



C4 TERMINATION CABINET PAD (6" THICK), TYPICAL OF ONE LOCATION

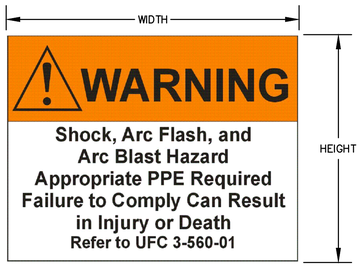
SCALE: NONE

ES102



A1 600A ABOVEGROUND TERMINATION CABINET (TYPICAL)

NOT TO SCALE



NOTES:

1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
2. THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
4. THE SIZE OF THE LABEL SHALL BE MINIMUM:

EQUIPMENT TYPE	HEIGHT	WIDTH
INDOOR	2"	3"
OUTDOOR	3"	4.5"

5. A DOWNLOADABLE WINDOWS METAFILE IS AVAILABLE ON THE WHOLE BUILDING DESIGN GUIDE WEBSITE (WWW.WBDG.ORG) FOR USE IN A LABEL MAKING MACHINE.
   A. THE FILE IS LOCATED ON THE "NAVFAC CADD DETAILS" PAGE. TO NAVIGATE TO THIS LOCATION, FOLLOW: HOME > DOCUMENTS & REFERENCES > CCB > CADD LIBRARY > NAVFAC CADD RESOURCES > NAVFAC CADD DETAILS.
   B. ALTERNATIVELY, TYPE IN THE FOLLOWING ADDRESS IN INTERNET EXPLORER: HTTP://WWW.WBDG.ORG/CCB/BROWSE_CAT.PHP?C=232

GENERAL ARC FLASH WARNING LABEL

SKETCH DATE	APRIL 2015	STYLE	AF-1

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DNB	DRW	DNB	CHK	JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - RODCC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND--MID-ATLANTIC
NAVAL STATION--NORFOLK, VA

NAVAL STATION NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

TERMINATION CABINET DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1806349

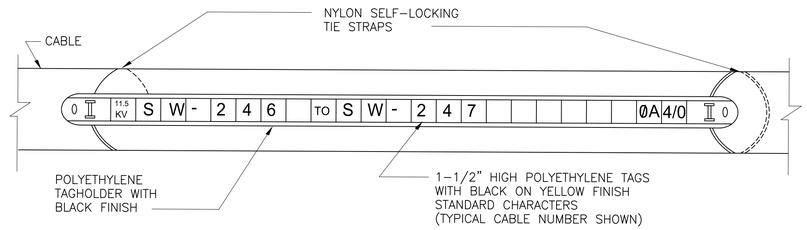
CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,675

SHEET 29 OF 32

ES503

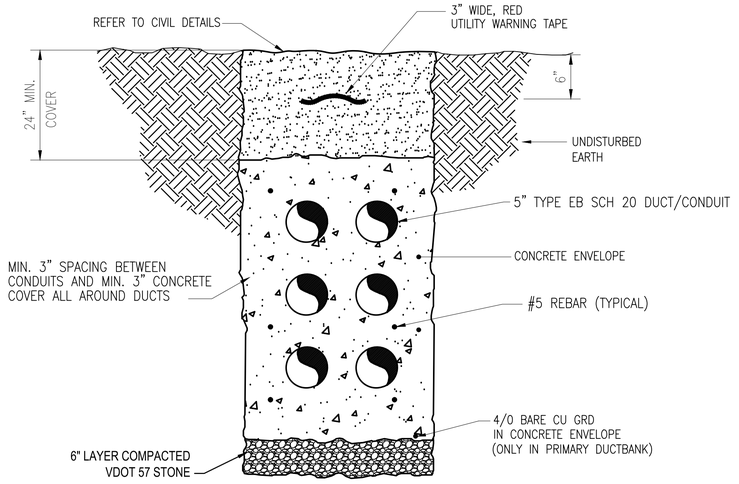
DRAWFORM REVISION: 14 SEP 2023



D1 CABLE TAG DETAILS

SCALE: NONE

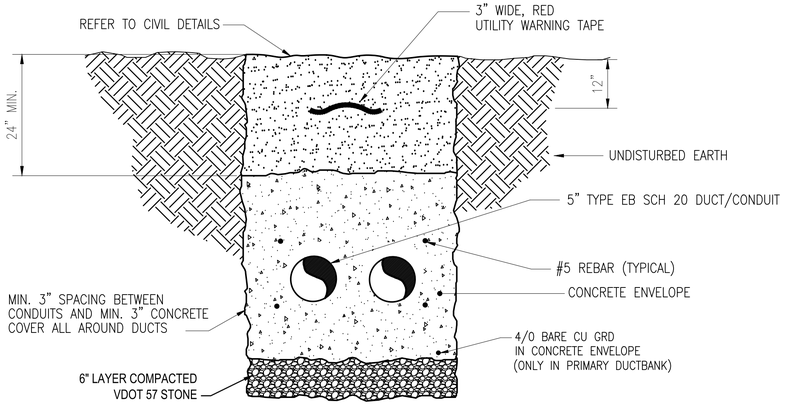
ES102



C3 6-WAY DUCTBANK DETAIL

SCALE: NONE

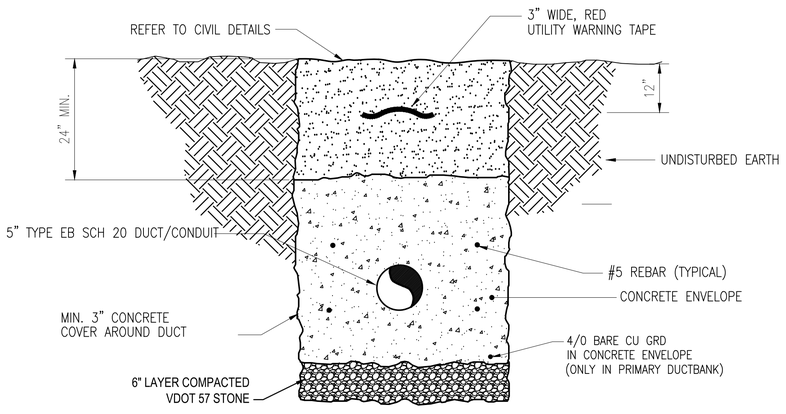
ES103



A1 2-WAY DUCTBANK DETAIL

SCALE: NONE

ES103



A3 1-WAY DUCTBANK DETAIL

SCALE: NONE

ES103

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DRW	CHK
DNB	DNB	JAT

PM/DM	DAVE BURNETTE
BRANCH MANAGER	J. MORTON, P.E.
CHIEF ENG/ARCH	J. MILLER, P.E.
FIRE PROTECTION	N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROIC: NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND–MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL STATION

NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

ELECTRICAL DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1806349

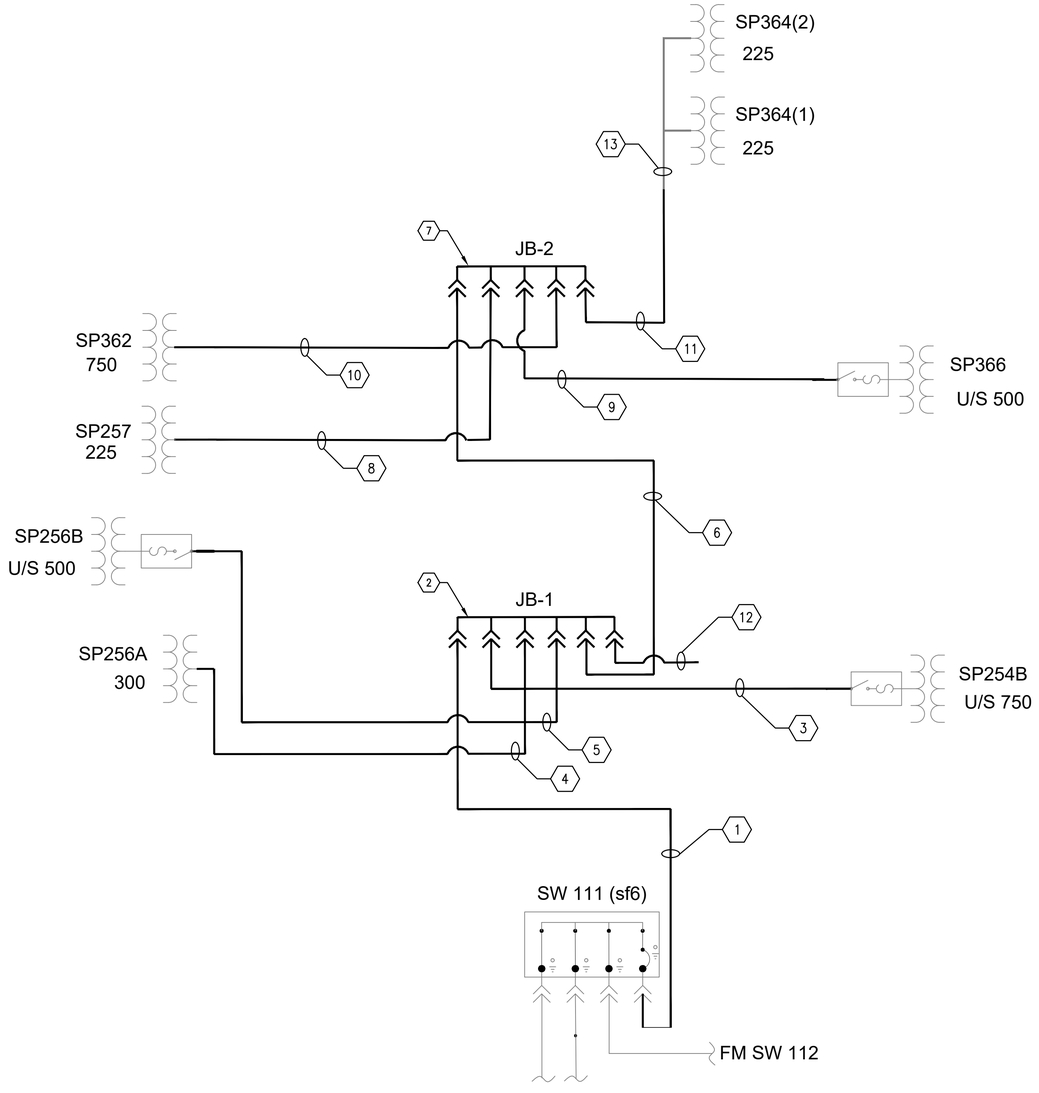
CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,676

SHEET 30 OF 32

ES504

DRAWFORM REVISION: 14 SEP 2023



PARTIAL ONE-LINE DIAGRAM

NOT TO SCALE

KEYNOTES

1. CIRCUIT FROM SW111 WAY #4 TO TO JUNCTION BOX (JB-1) WAY #1
2. PROVIDE A PAD MOUNTED, 6-WAY, 600A ABOVE GROUND JUNCTION BOX (JB-1).
3. CIRCUIT FROM JUNCTION BOX (JB-1) WAY #2 TO SP-254B SUBSTATION.
4. CIRCUIT FROM JUNCTION BOX (JB-1) WAY #3 TO SP-256A XFMR.
5. CIRCUIT FROM JUNCTION BOX (JB-1) WAY #4 TO SP-256B SUBSTATION.
6. CIRCUIT FROM JUNCTION BOX (JB-1) WAY #5 TO TO JUNCTION BOX (JB-2) WAY #1.
7. PROVIDE A PAD MOUNTED, 5 WAY, 600A, ABOVE GROUND JUNCTION BOX (JB-2).
8. CIRCUIT FROM JUNCTION BOX (JB-2) WAY #2 TO SP-257 XFMR.
9. CIRCUIT FROM JUNCTION BOX (JB-2) WAY #3 TO SP-366 SUBSTATION.
10. CIRCUIT FROM JUNCTION BOX (JB-2) WAY #4 TO SP-362 XFMR.
11. CIRCUIT FROM JUNCTION BOX (JB-2) WAY #5 TO SP-364 (1) AND SP-364(2).
12. JUNCTION BOX (JB-1) WAY #6 PROVIDED FOR FUTURE USE.
13. EXISTING CIRCUIT IN EMH-SP-42D TO REMAIN.

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES	DNB	DRW	DNB	CHK	JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT - ROICC NORFOLK

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – MID-ATLANTIC
NAVAL STATION – NORFOLK, VA

NAVAL STATION
NORFOLK, VIRGINIA

SP-364
REPLACE UNDERGROUND CABLING IN SP AREA

ONE-LINE DIAGRAM

SCALE: AS NOTED

EPROJECT NO.: 1806349

CONSTR. CONTR. NO. N/A

NAVFAC DRAWING NO. 12,944,678

SHEET 31 OF 32

ES601

DRAWFORM REVISION: 14 SEP 2023

NEW WORK CABLE SCHEDULE

CABLE IDENTIFICATION	DESCRIPTION	CONDUIT SIZE (INCHES)	VOLTAGE	PHASE CONDUCTORS		EQUIPMENT GROUND		REMARKS
				SIZE	INSULATION	SIZE	INSULATION	
1	SW111 WAY#4 TO JUNCTION BOX (JB-1) WAY #1	5"	15KV	3-4/0	EPR	1-#2	EPR	SW111 WAY #4 TO JB-1 WAY #1
2	TERMINATION CABINET (JB-1) WAY #2 TO SP-254 SUBSTATION.	5"	15KV	3-4/0	EPR	1-#2	EPR	TERMINATION CABINET (JB-1) WAY #2 TO SP-254 SUBSTATION. EXISTING BUILDING CONDUIT FROM EMH SP-42B IS 3-1/2"
3	TERMINATION CABINET (JB-1) WAY #3 TO SP-256(B) XFMR.	5"	15KV	3-4/0	EPR	1-#2	EPR	TERMINATION CABINET (JB-1) WAY #3 TO SP-256(B) XFMR. EXISTING BUILDING CONDUIT FROM EMH SP-42B IS 3/1-2".
4	TERMINATION CABINET (JB-1) WAY #4 TO SP-256(A) SUBSTATION.	5"	15KV	3-4/0	EPR	1-#2	EPR	TERMINATION CABINET (JB-1) WAY #4 TO SP-256(A) SUBSTATION.
5	TERMINATION CABINET (JB-1) WAY #5 TO TERMINATION CABINET (JB-2) WAY#1.	5"	15KV	3-4/0	EPR	1-#2	EPR	TERMINATION CABINET (JB-1) WAY #5 TO TERMINATION CABINET (JB-2) WAY #1.
6	TERMINATION CABINET (JB-2) WAY #2 TO SP-257 XFMR.	5"	15KV	3-4/0	EPR	1-#2	EPR	TERMINATION CABINET (JB-2) WAY #5 TO SP-257 XFMR
7	TERMINATION CABINET (JB-2) WAY #3 TO SP-366 SUBSTATION.	5"	15KV	3-4/0	EPR	1-#2	EPR	TERMINATION CABINET (JB-2) WAY #3 TO SP-366 SUBSTATION.
8	TERMINATION CABINET (JB-2) WAY #4 TO SP-362 XFMR.	5	15KV	3-4/0	EPR	1-#2	EPR	TERMINATION CABINET (JB-2) WAY #4 TO SP-362 XFMR.
9	TERMINATION CABINET (JB-2) WAY #5 TO SP-364 XFMR.	5"	15KV	3-4/0	EPR	1-#2	EPR	TERMINATION CABINET (JB-2) WAY #5 TO INLINE SPLICE IN EMH SP-42D. CABLE TO SP-364 XFMR EXISTING TO REMAIN IN EMH SP-42D

DATE | DESCRIPTION | MARK

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

JANICE D. FISHBURN, P.E.

SATISFACTORY TO DATE 05-05-26

DES DNB | DRW DNB | CHK JAT

PM/DM DAVE BURNETTE

BRANCH MANAGER J. MORTON, P.E.

CHIEF ENG/ARCH J. MILLER, P.E.

FIRE PROTECTION N/A

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MIDLANT - ROCC NORFOLK

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NAVAL STATION ~ NORFOLK, VA

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NORFOLK, VIRGINIA

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CABLE SCHEDULE

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