SYMBOLS - COMMUNICATION

- WIRE IN CONDUIT, RUN CONCEALED ABOVE CEILING OR IN WALL.
- WIRE IN CONDUIT ROUTE BELOW GRADE OR FLOOR SLAB.
- C — COMMUNICATION DUCTBANK
- E — ELECTRICAL DUCTBANK
- PDS — PROTECTED DISTRIBUTION SYSTEM (PDS) RACEWAY
- X — COMMUNICATIONS OUTLET BOX. LETTER INDICATES OUTLET TYPE. MOUNT 18" AFF UON. SEE TN501 AND TN502 FOR DETAILS.
- TV — TV - CATV OUTLET BOX, SEE TN501 FOR DETAILS
  AV - AUDIO/VISUAL, SHOWN FOR REFERENCE ONLY
  NFF - NON-SECURE FURNITURE FEED
  SFF - SECURE FURNITURE FEED
- CABLE TRAY. TYPE AND MOUNTING HEIGHT AS INDICATED ON COMMUNICATION PLANS.
  - 4"W X 12"D 11'-0" AFF — BT - BASKET TRAY; LT - LADDER TRAY
- J — JUNCTION BOX, WALL MOUNTED 18" AFF, UON.
- J — JUNCTION BOX, MOUNTED ABOVE CEILING, UON.
- FB1 — FLOOR BOX, NUMBER INDICATES TYPE.
- WiFi — WIRELESS ACCESS POINT LOCATION
- CAM — FIXED CEILING MOUNTED CAMERA

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AV	AUDIO/VIDEO (BY OTHERS, SHOWN FOR REFERENCE ONLY)
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BOT	BOTTOM OF CABLE TRAY
C	CONDUIT
CAT	CATEGORY
CATV	CABLE TELEVISION
CCN	CONTRACTOR CLASSIFIED NETWORK (FIBER)
CCTV	CLOSED CIRCUIT TELEVISION
CH	CHILLED WATER
COMM	COMMUNICATIONS
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CPP	COPPER HORIZONTAL PATCH PANEL
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CT	CABLE TRAY
CU	COPPER
CW	CONDENSER WATER
DC	DIRECT CURRENT
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
EIA	ELECTRONICS INDUSTRIES ASSOCIATIONS
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FO	FIBER OPTIC
FPD	FLAT PANEL DISPLAY
FPP	FIBER OPTIC PATCH PANEL
FSCP	FIRE SYSTEM CONTROL PANEL
GFGI	GOVERNMENT FURNISHED AND INSTALLED
G OR GND	GROUND
GFE	GOVERNMENT FURNISHED EQUIPMENT
GFR	GROUND FAULT RELAY
GFP	GROUND FAULT PROTECTION
GRS	GALVANIZED RIGID STEEL CONDUIT
H	HOT CONDUCTOR
HACR BREAKER	HEATING, AIR CONDITIONING AND REFRIGERATION
HID	HIGH INTENSITY DISCHARGE
HZ	HERTZ
IDS	INTRUSION DETECTION SYSTEM
IG	ISOLATED GROUND
IN	INCH OR INCHES

ABBREVIATIONS - CONTINUED

K	KILO
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT AMPERES
KWH	KILOWATT HOURS
LC	LIGHTING CONTACTOR
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MH	MANHOLE
MLO	MAIN LUGS ONLY
MM	MULTIMODE
MN/PA	MASS NOTIFICATION/PUBLIC ADDRESS
MX	MAINTENANCE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NIC	NOT IN CONTRACT
NIPR	NON-CLASSIFIED INTERNET PROTOCOL ROUTING
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
P	POLE
PDS	PROTECTIVE DISTRIBUTION SYSTEM
PDU	POWER DISTRIBUTION UNIT
PR	PAIR
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
RMC	RIGID METAL CONDUIT
RMS	ROOT MEAN SQUARE
SCCR	SHORT CIRCUIT CURRENT RATING
SCI	SENSITIVE COMPARTMENTALIZED INFORMATION
ScTP	SHIELDED TWISTED PAIR
SIPR	SECRET INTERNET PROTOCOL ROUTING
SM	SINGLE MODE
SRG	STATIC REFERENCE GRID
SYM	SYMMETRICAL
T	TRANSFORMER
TB	TELEPHONE BACKBOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
TW	TIME WARNER
UL	UNDERWRITERS' LABORATORIES
um	MICROMETER
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VA	VOLT AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE OR WATT
WAP	WIRELESS ACCESS POINT
XFMR	TRANSFORMER
Z	IMPEDANCE

SYMBOL MODIFIERS

C	RECESSED IN CEILING
EP OR EXP	EXPLOSION PROOF
F	RECESSED IN FLOOR
GFCI,GFI	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
P	PILOT LIGHT (INDICATING SWITCH IS ON)
W	WALL MOUNTED, 48" AFF UON
WP	WEATHERPROOF
WPIU	WEATHERPROOF IN USE

LEGEND NOTES

1. EQUIPMENT IDENTIFIERS, MATCHING THOSE IN EQUIPMENT SCHEDULES, ARE DISPLAYED INSIDE OF BRACKETS [ ].
2. SYMBOLS ORIENTATION DOES NOT IMPLY DEVICE OR EQUIPMENT ORIENTATION. UNLESS NOTED AS SUCH. SEE REFLECTED CEILING PLANS FOR LIGHT FIXTURE POSITIONS AND ORIENTATIONS.
3. SYMBOL SIZE DOES NOT IMPLY EQUIPMENT SIZE, UON.
4. MOUNTING HEIGHT INDICATED IN LEGEND AND ON THE DRAWINGS SHALL BE THE DISTANCE MEASURED FROM THE CENTER OF THE DEVICE TO THE FINISHED FLOOR.
5. NOT ALL SYMBOLS ARE USED.
6. REFER TO TYPICAL DETAILS ON TN500 SERIES DRAWINGS.

PROJECT INSIDE PLANT GENERAL NOTES:

1. BACKBONE CABLING SHALL BE INSTALLED IN AREA CABLE TRAYS AND BACKBONE CONDUITS SHOWN. BACKBONE CABLING SHALL NOT BE INSTALLED USING J-HOOKS OR ANY OTHER METHOD.
2. COMMUNICATION ROOMS HAVE BEEN LOCATED TO ENSURE THE HORIZONTAL CABLING THROUGHOUT THE FACILITY DOES NOT EXCEED 295 FEET TO MEET EIA/TIA. CONTRACTOR SHALL ROUTE PATHWAYS AND CABLES TO ENSURE THIS DISTANCE IS NOT EXCEEDED. CONTRACTOR SHALL NOTIFY COR PRIOR TO PATHWAY AND CABLE INSTALLATION IF THERE ARE AREAS WHERE THE EXPECTED DISTANCE MAY BE EXCEEDED.

SYM	DESCRIPTION	DATE	APPR

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER — Bicsi — SHAWN WHALEN — REG. NO. 172281R — EXPIRES 12-31-17 — SIGNATURE

May 3 2016 1:49 PM

MINNESOTA — SHAWN M. WHALEN — 23964 — MINNEAPOLIS, MN — PROFESSIONAL ENGINEER

May 3 2016 1:46 PM

SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320

A/E INFO

APPROVED — David W. Greenfield — FOR COMMANDER NAVFAC

ACTIVITY: PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	DRW	CHK
SMW	CGK	SMW

PM / DM: MLW/LEJ
BRANCH MANAGER: JAY
CHIEF ENG/ARCH: DWG
FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NEWPORT, RHODE ISLAND
NORTH IPT
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATIONS SYMBOLS, ABBREVIATIONS AND LEGEND

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722146
SHEET 160 OF 177

T-001

DRAWFORM REVISION: 10 MAY 2014

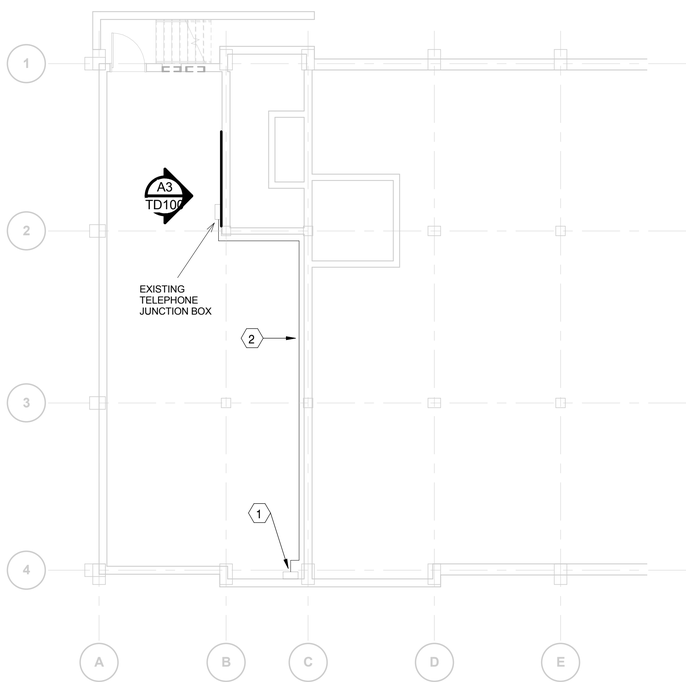
FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP\87997_E_jccashwell.rvt
REVDATE: 5/3/2016 9:28:58 AM

GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. REFER TO T-001 FOR LEGEND, SYMBOLS, EXISTING CONDITIONS NOTES, AND DEMOLITION NOTES.
4. DEMOLITION: ITEMS IN BOLD AND DASHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY FROM DEVICE TO SOURCE.
5. EXISTING TO REMAIN: ITEMS GRAYSCALE ARE EXISTING TO REMAIN.
6. IN ACCORDANCE WITH NEC ARTICLES 645.5, 725.25, 760.25, AND 800.25 CONTRACTOR SHALL DEMOLISH ALL ABANDONDED CONDUCTORS, ELECTRICAL RACEWAYS, ELECTRICAL CONNECTIONS, AND ASSOCIATED EQUIPMENT ABOVE CEILING.

DEMOLITION NOTES:

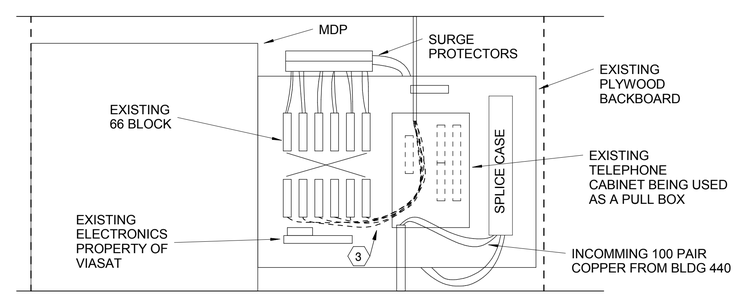
1. LOCATION OF SERVICE ENTRANCE FOR CATV, FIBER AND VOICE CABLING. LOCATION OF CATV AMPLIFIER.
2. APPROXIMATE ROUTING OF EXISTING FIBER AND VOICE CABLING.
3. DEMO EXISTING HORIZONTAL CABLING. SEE 'TD' SERIES PLANS FOR LOCATIONS AND QUANTITY



PLAN NORTH

TELECOMMUNICATIONS DEMO WORK PLAN - BASEMENT

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



GENERAL NOTE: ALL DASHED EQUIPMENT SHALL BE REMOVED UNLESS NOTED OTHERWISE

DEMOLITION BASEMENT ELEVATION TELECOMMUNICATIONS

A3 SCALE: NOT TO SCALE

SYM	DESCRIPTION	DATE	APPR

NAVFAC

Bicsi — Registered Communications Distribution Designer — Shawn Whalen, Reg. No. 172281R, Expires 12-31-17 — Signature

May 3 2016 1:49 PM

Minnesota Professional Engineer — Shawn M. Whalen, 23954, Minneapolis, MN

May 3 2016 1:47 PM

SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	DRW	CHK
SMW	CGK	SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NORTH IPT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATION DEMOLITION PLAN - BASEMENT

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722147
SHEET 161 OF 177

TD100

DRAWFORM REVISION: 10 MAY 2014

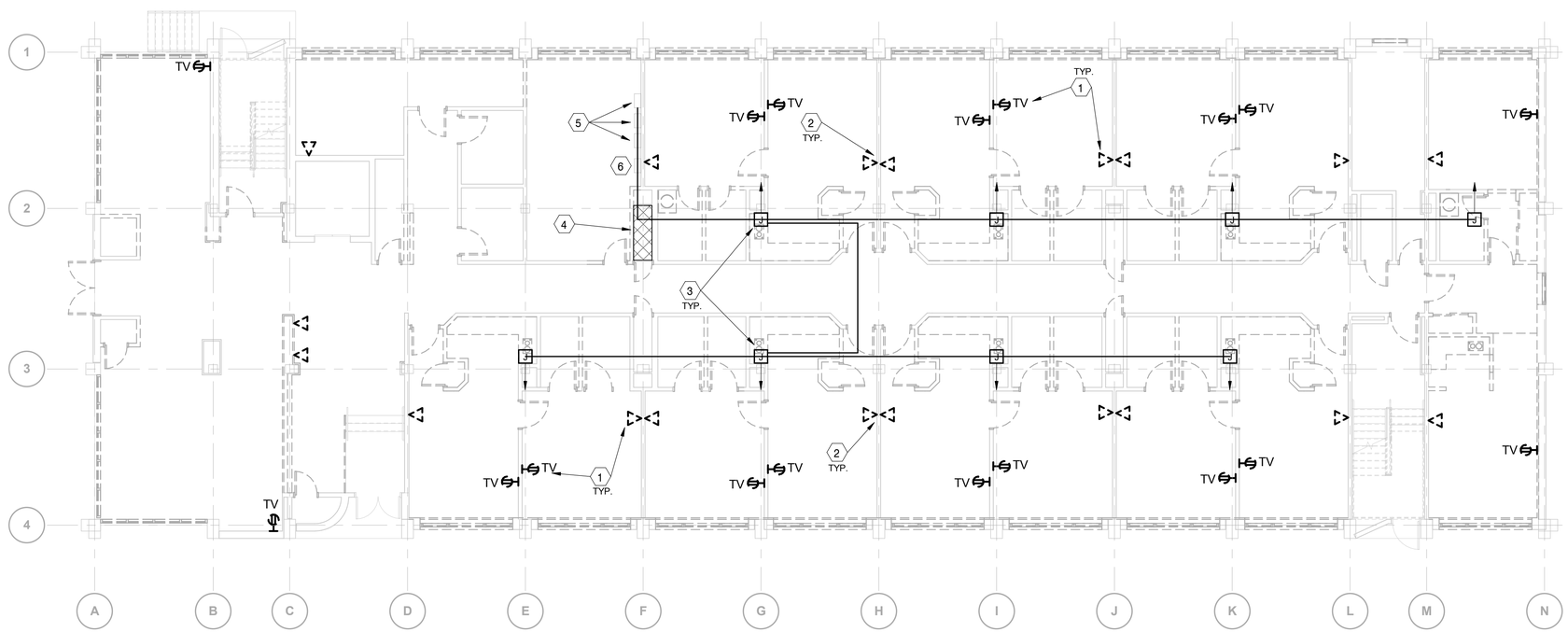
FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP87997_E_jcashwell.rvt
REV/DATE: 5/3/2016 9:28:59 AM

GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. REFER TO T-001 FOR LEGEND, SYMBOLS, EXISTING CONDITIONS NOTES, AND DEMOLITION NOTES.
4. DEMOLITION: ITEMS IN BOLD AND DASHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY FROM DEVICE TO SOURCE.
5. EXISTING TO REMAIN: ITEMS GRAYSCALE ARE EXISTING TO REMAIN.
6. IN ACCORDANCE WITH NEC ARTICLES 645.5, 725.25, 760.25, AND 800.25 CONTRACTOR SHALL DEMOLISH ALL ABANDONDED CONDUCTORS, ELECTRICAL RACEWAYS, ELECTRICAL CONNECTIONS, AND ASSOCIATED EQUIPMENT ABOVE CEILING.

DEMOLITION NOTES:

1. DEMOLISH ALL EXISTING TELECOMMUNICATION DEVICES AND WIRING BACK TO POINT OF ORIGIN.
2. EXISTING TELEPHONE CONDUIT RISER ORIGINATING IN THE BASEMENT THROUGH THE 5TH FLOOR. DEMOLISH EXISTING CABLING AND DEVICES, CONDUIT WILL NOT BE REUSED.
3. EXISTING CATV CONDUIT AND J-BOXES. DEMOLISH EXISTING WALL PLATES, COIL BACK CABLING TO NEAREST JUNCTION BOX. ROUTE CABLING TO NEW LOCATIONS AND EXTEND CONDUIT AS SHOWN ON THE 'TN100' SERIES SHEETS.
4. LOCATION OF TELECOMMUNICATION RISER CONDUITS FROM BASEMENT.
5. EXISTING CATV DEMARCATION LOCATION TO REMAIN.
6. EXISTING FIBER DEMARCATION LOCATION TO REMAIN.



PLAN NORTH

TELECOMMUNICATIONS DEMO WORK PLAN - 1ST FLOOR

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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
SHAWN WHALEN
REG. NO. 172281R
EXPIRES 12-31-17
SIGNATURE
May 3 2016 1:49 PM

MINNESOTA PROFESSIONAL ENGINEER
SHAWN M. WHALEN
23954
MINNEAPOLIS, MN
May 3 2016 1:47 PM
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES SMW	DRW CGK	CHK SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NORTH IPT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATION DEMOLITION PLAN - 1ST FLOOR

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722148
SHEET 162 OF 177

TD101

DRAWFORM REVISION: 10 MAY 2014

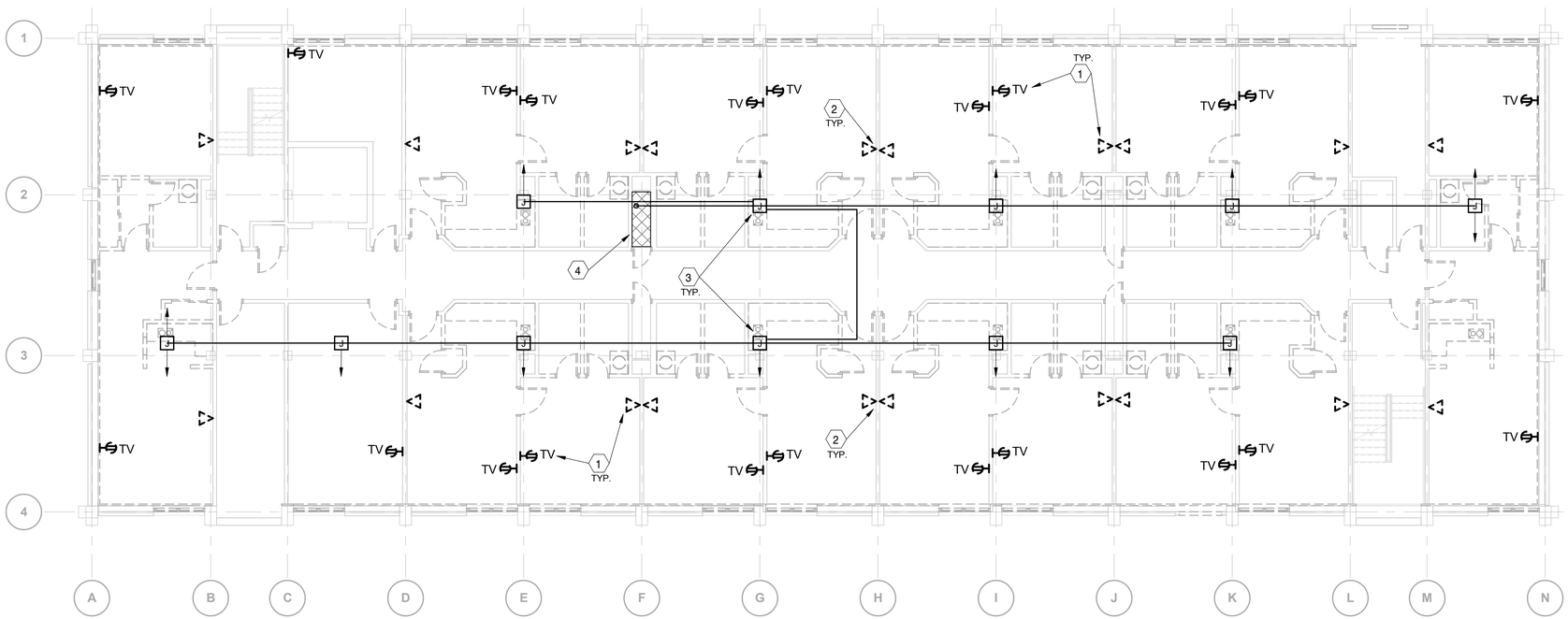
FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP\87997_E_jccashwell.rvt
REVDATE: 5/3/2016 9:29:00 AM

GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. REFER TO T-001 FOR LEGEND, SYMBOLS, EXISTING CONDITIONS NOTES, AND DEMOLITION NOTES.
4. DEMOLITION: ITEMS IN BOLD AND DASHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY FROM DEVICE TO SOURCE.
5. EXISTING TO REMAIN: ITEMS GRAYSCALE ARE EXISTING TO REMAIN.
6. IN ACCORDANCE WITH NEC ARTICLES 645.5, 725.25, 760.25, AND 800.25 CONTRACTOR SHALL DEMOLISH ALL ABANDONDED CONDUCTORS, ELECTRICAL RACEWAYS, ELECTRICAL CONNECTIONS, AND ASSOCIATED EQUIPMENT ABOVE CEILING.

DEMOLITION NOTES:

1. DEMOLISH ALL EXISTING TELECOMMUNICATION DEVICES AND WIRING BACK TO POINT OF ORIGIN.
2. EXISTING TELEPHONE CONDUIT RISER ORIGINATING IN THE BASEMENT THROUGH THE 5TH FLOOR. DEMOLISH EXISTING CABLING AND DEVICES, CONDUIT WILL NOT BE REUSED.
3. EXISTING CATV CONDUIT AND J-BOXES. DEMOLISH EXISTING WALL PLATES, COIL BACK CABLING TO NEAREST JUNCTION BOX. ROUTE CABLING TO NEW LOCATIONS AND EXTEND CONDUIT AS SHOWN ON THE 'TN100' SERIES SHEETS.
4. LOCATION OF TELECOMMUNICATION RISER CONDUITS FROM BASEMENT.



PLAN NORTH

TELECOMMUNICATIONS DEMO WORK PLAN - 2ND FLOOR

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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

May 3 2016 1:50 PM

May 3 2016 1:47 PM

SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM/BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES SMW	DRW CGK	CHK SMW

PM / DM MLW/LEJ

BRANCH MANAGER

CHIEF ENG/ARCH DWG

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NEWPORT, RHODE ISLAND

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATION DEMOLITION PLAN - 2ND FLOOR

SCALE: AS NOTED

EPROJECT NO. 1382693

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12722149

SHEET 163 OF 177

TD102

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\97397-NGISB678\Models\MEP\97397_E_jccashwell.rvt

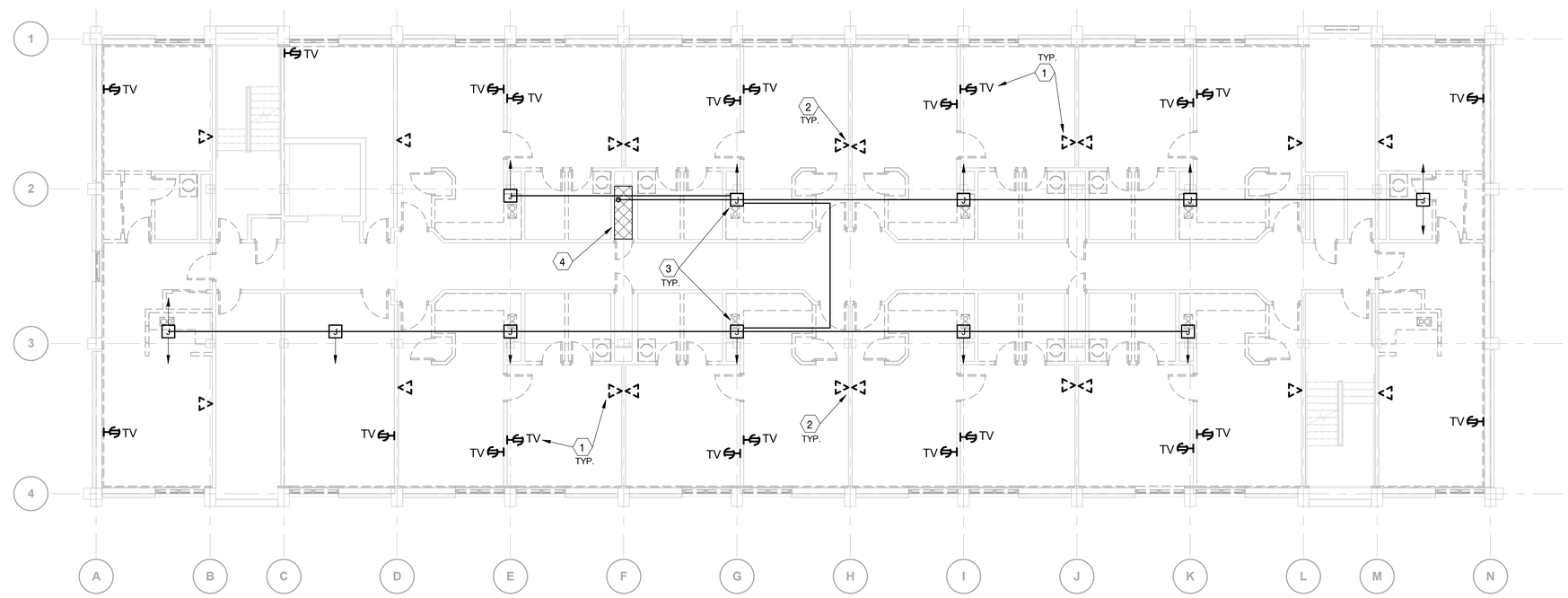
REV DATE: 5/3/2016 9:23:01 AM

GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. REFER TO T-001 FOR LEGEND, SYMBOLS, EXISTING CONDITIONS NOTES, AND DEMOLITION NOTES.
4. DEMOLITION: ITEMS IN BOLD AND DASHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY FROM DEVICE TO SOURCE.
5. EXISTING TO REMAIN: ITEMS GRAYSCALE ARE EXISTING TO REMAIN.
6. IN ACCORDANCE WITH NEC ARTICLES 645.5, 725.25, 760.25, AND 800.25 CONTRACTOR SHALL DEMOLISH ALL ABANDONDED CONDUCTORS, ELECTRICAL RACEWAYS, ELECTRICAL CONNECTIONS, AND ASSOCIATED EQUIPMENT ABOVE CEILING.

DEMOLITION NOTES:

1. DEMOLISH ALL EXISTING TELECOMMUNICATION DEVICES AND WIRING BACK TO POINT OF ORIGIN.
2. EXISTING TELEPHONE CONDUIT RISER ORIGINATING IN THE BASEMENT THROUGH THE 5TH FLOOR. DEMOLISH EXISTING CABLING AND DEVICES, CONDUIT WILL NOT BE REUSED.
3. EXISTING CATV CONDUIT AND J-BOXES. DEMOLISH EXISTING WALL PLATES, COIL BACK CABLING TO NEAREST JUNCTION BOX. ROUTE CABLING TO NEW LOCATIONS AND EXTEND CONDUIT AS SHOWN ON THE 'TN100' SERIES SHEETS.
4. LOCATION OF TELECOMMUNICATION RISER CONDUITS FROM BASEMENT.



PLAN NORTH

TELECOMMUNICATIONS DEMO WORK PLAN - 3RD FLOOR

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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

Bicsi — Registered Communications Distribution Designer — Shawn Whalen, Reg. No. 172281R, Expires 12-31-17 — May 3 2016 1:50 PM

Minnesota Professional Engineer — Shawn M. Whalen, 23954, Minneapolis, MN — May 3 2016 1:47 PM — SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO.

APPROVED: David W. Greenfield — FOR COMMANDER NAVFAC

ACTIVITY: PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT,NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	DRW	CHK
SMW	CGK	SMW

PM / DM: MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH: DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATION DEMOLITION PLAN - 3RD FLOOR

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722150
SHEET 164 OF 177

TD103

DRAWFORM REVISION: 10 MAY 2014

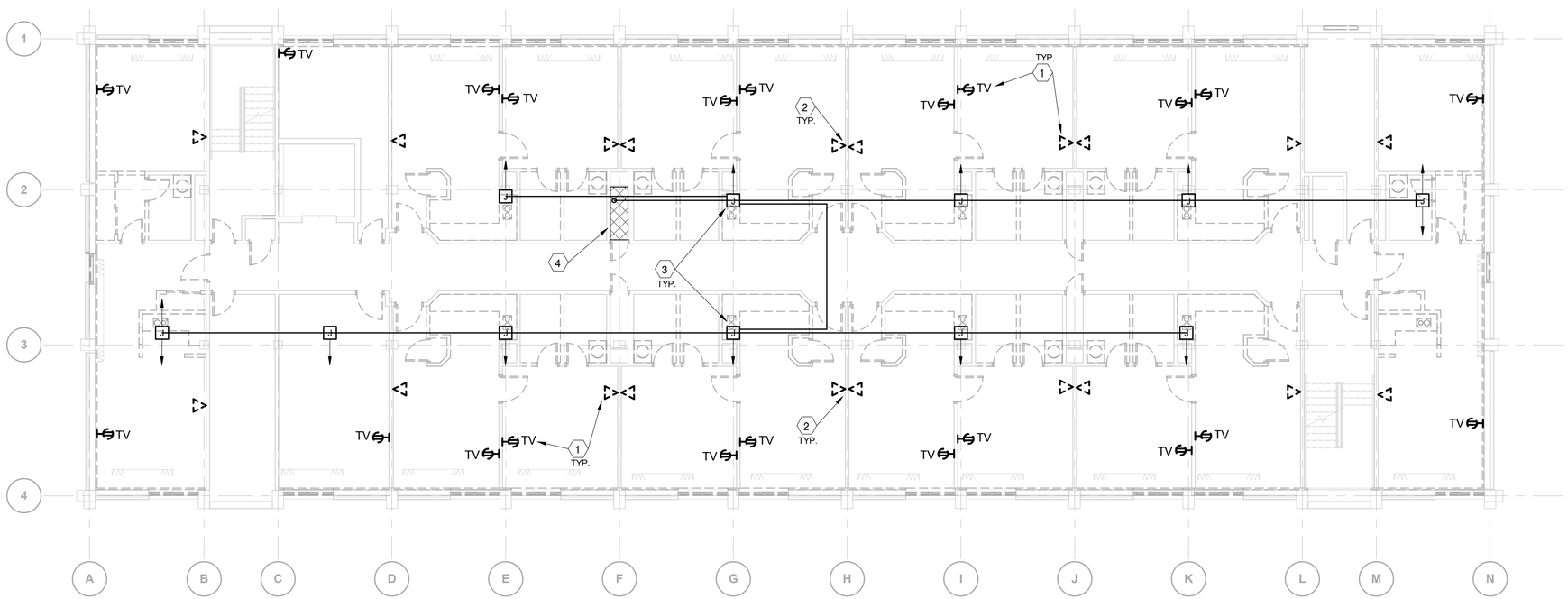
FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP\87997_E_jccashwell.rvt
REV/DATE: 5/3/2016 9:28:02 AM

GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. REFER TO T-001 FOR LEGEND, SYMBOLS, EXISTING CONDITIONS NOTES, AND DEMOLITION NOTES.
4. DEMOLITION: ITEMS IN BOLD AND DASHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY FROM DEVICE TO SOURCE.
5. EXISTING TO REMAIN: ITEMS GRAYSCALE ARE EXISTING TO REMAIN.
6. IN ACCORDANCE WITH NEC ARTICLES 645.5, 725.25, 760.25, AND 800.25 CONTRACTOR SHALL DEMOLISH ALL ABANDONDED CONDUCTORS, ELECTRICAL RACEWAYS, ELECTRICAL CONNECTIONS, AND ASSOCIATED EQUIPMENT ABOVE CEILING.

DEMOLITION NOTES:

1. DEMOLISH ALL EXISTING TELECOMMUNICATION DEVICES AND WIRING BACK TO POINT OF ORIGIN.
2. EXISTING TELEPHONE CONDUIT RISER ORIGINATING IN THE BASEMENT THROUGH THE 5TH FLOOR. DEMOLISH EXISTING CABLING AND DEVICES, CONDUIT WILL NOT BE REUSED.
3. EXISTING CATV CONDUIT AND J-BOXES. DEMOLISH EXISTING WALL PLATES, COIL BACK CABLING TO NEAREST JUNCTION BOX. ROUTE CABLING TO NEW LOCATIONS AND EXTEND CONDUIT AS SHOWN ON THE 'TN100' SERIES SHEETS.
4. LOCATION OF TELECOMMUNICATION RISER CONDUITS FROM BASEMENT.



PLAN NORTH

TELECOMMUNICATIONS DEMO WORK PLAN - 4TH FLOOR

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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER — Bicsi — SHAWN WHALEN — REG. NO. 172281R — EXPIRES 12-31-17 — SIGNATURE

May 3 2016 1:50 PM

MINNESOTA — SHAWN M. WHALEN — 23954 — MINNEAPOLIS, MN — PROFESSIONAL ENGINEER

May 3 2016 1:47 PM

SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320

A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT, NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES SMW	DRW CGK	CHK SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NORTH IPT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATION DEMOLITION PLAN - 4TH FLOOR

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722151
SHEET 165 OF 177

TD104

DRAWFORM REVISION: 10 MAY 2014

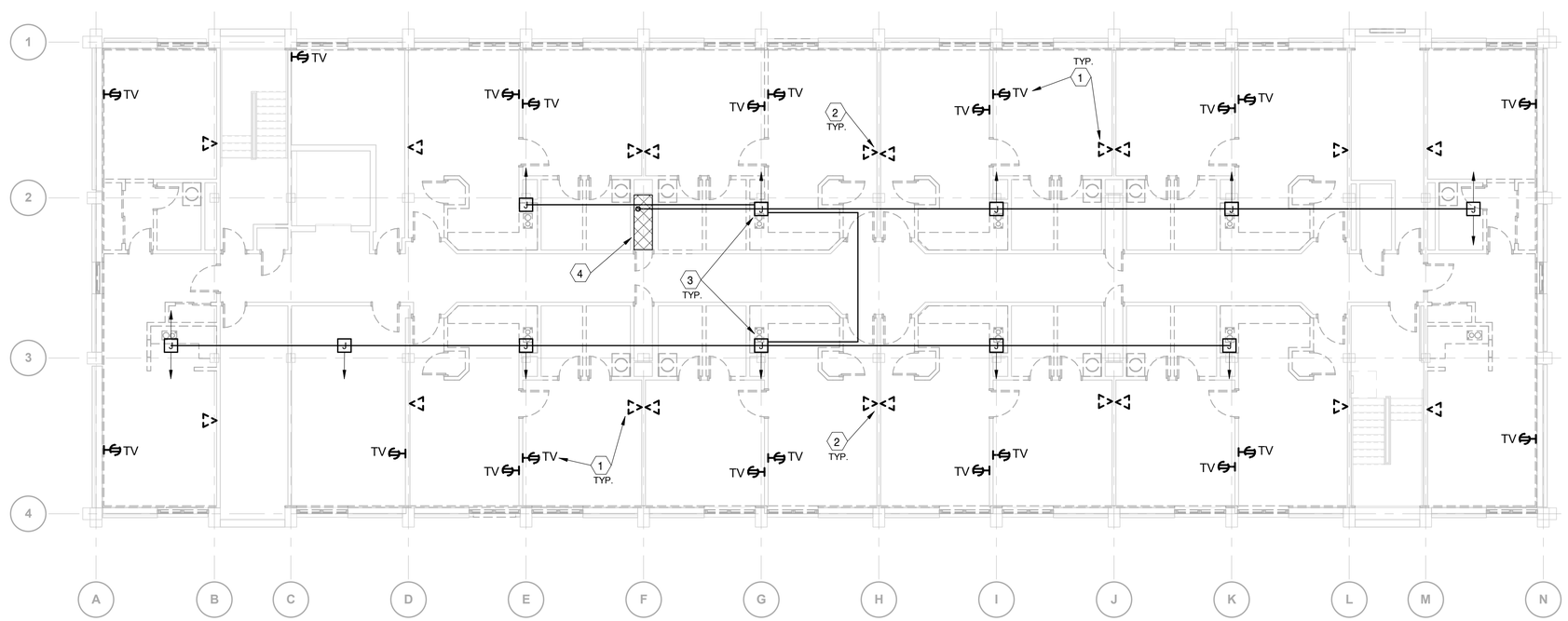
FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP\87997_E_jccashwell.rvt
REVDATE: 5/3/2016 9:29:03 AM

GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. REFER TO T-001 FOR LEGEND, SYMBOLS, EXISTING CONDITIONS NOTES, AND DEMOLITION NOTES.
4. DEMOLITION: ITEMS IN BOLD AND DASHED ARE TO BE DEMOLISHED IN THEIR ENTIRETY FROM DEVICE TO SOURCE.
5. EXISTING TO REMAIN: ITEMS GRAYSCALE ARE EXISTING TO REMAIN.
6. IN ACCORDANCE WITH NEC ARTICLES 645.5, 725.25, 760.25, AND 800.25 CONTRACTOR SHALL DEMOLISH ALL ABANDONDED CONDUCTORS, ELECTRICAL RACEWAYS, ELECTRICAL CONNECTIONS, AND ASSOCIATED EQUIPMENT ABOVE CEILING.

DEMOLITION NOTES:

1. DEMOLISH ALL EXISTING TELECOMMUNICATION DEVICES AND WIRING BACK TO POINT OF ORIGIN.
2. EXISTING TELEPHONE CONDUIT RISER ORIGINATING IN THE BASEMENT THROUGH THE 5TH FLOOR. DEMOLISH EXISTING CABLING AND DEVICES, CONDUIT WILL NOT BE REUSED.
3. EXISTING CATV CONDUIT AND J-BOXES. DEMOLISH EXISTING WALL PLATES, COIL BACK CABLING TO NEAREST JUNCTION BOX. ROUTE CABLING TO NEW LOCATIONS AND EXTEND CONDUIT AS SHOWN ON THE 'TN100' SERIES SHEETS.
4. LOCATION OF TELECOMMUNICATION RISER CONDUITS FROM BASEMENT.



PLAN NORTH

TELECOMMUNICATIONS DEMO WORK PLAN - 5TH FLOOR

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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
SHAWN WHALEN
REG. NO. 172281R
EXPIRES 12-31-17
SIGNATURE
May 3 2016 1:50 PM

MINNESOTA PROFESSIONAL ENGINEER
SHAWN M. WHALEN
23954
MINNEAPOLIS, MN
May 3 2016 1:47 PM
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES SMW	DRW CGK	CHK SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATION DEMOLITION PLAN - 5TH FLOOR

SCALE: **AS NOTED**
EPROJECT NO. **1382693**
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. **12722152**
SHEET **166** OF **177**

TD105

DRAWFORM REVISION: 10 MAY 2014

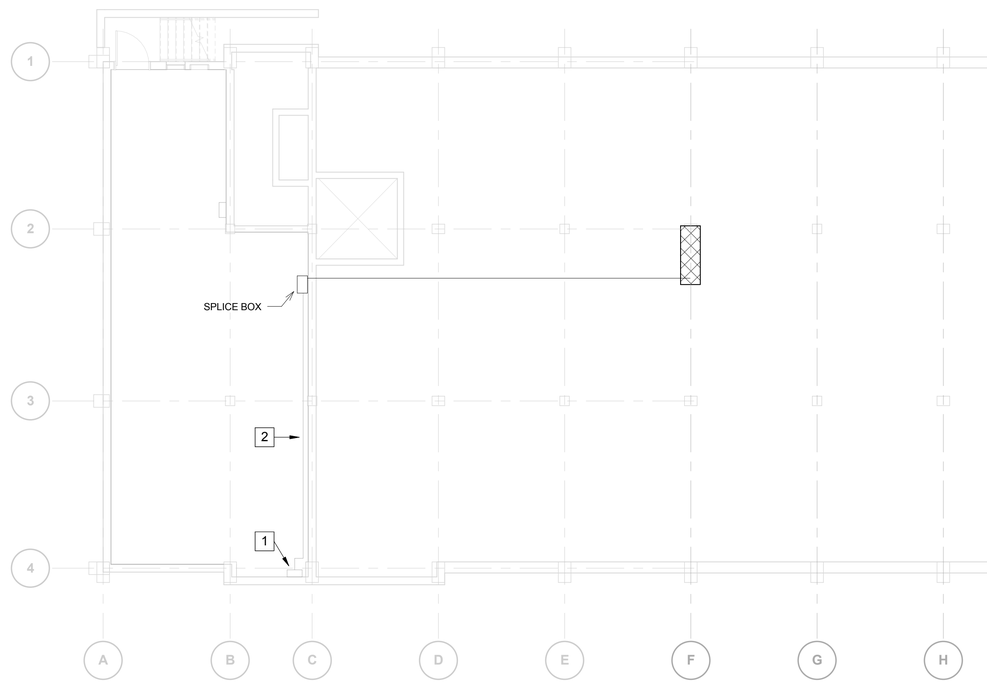
FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP87997_E_jcashwell.rvt
REV/DATE: 5/3/2016 9:29:04 AM

GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. SEE T-001 FOR TELECOM LEGEND, ABBREVIATIONS AND GENERAL NOTES.
4. NO CONDUITS SHALL BE EXPOSED IN THE LIVING ROOM, BEDROOM OR CORRIDOR.

NEW WORK NOTES:

1. LOCATION OF SERVICE ENTRANCE FOR CATV, FIBER AND VOICE CABLING. LOCATION OF CATV AMPLIFIER.
2. APPROXIMATE ROUTING OF EXISTING FIBER AND VOICE CABLING.



PLAN NORTH

TELECOMMUNICATIONS NEW WORK PLAN - BASEMENT

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

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi SHAWN WHALEN REG. NO. 172281R EXPIRES 12-31-17 SIGNATURE

May 3 2016 1:50 PM

MINNESOTA SHAWN M. WHALEN 23954 MINNEAPOLIS MN PROFESSIONAL ENGINEER

May 3 2016 1:47 PM

SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320

A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES SMW	DRW CGK	CHK SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NORTH IPT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATIONS NEW WORK PLAN - BASEMENT

SCALE: **AS NOTED**
EPROJECT NO. **1382693**
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. **12722153**
SHEET **167** OF **177**

TN100

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP87997_E_jcashwell.rvt
REV/DATE: 5/3/2016 9:29:04 AM

LEGEND:

INDICATES TYPICAL ROOM LAYOUT. SEE KEYNOTES AND SHEET TN401 FOR MORE INFORMATION.

GENERAL NOTES:

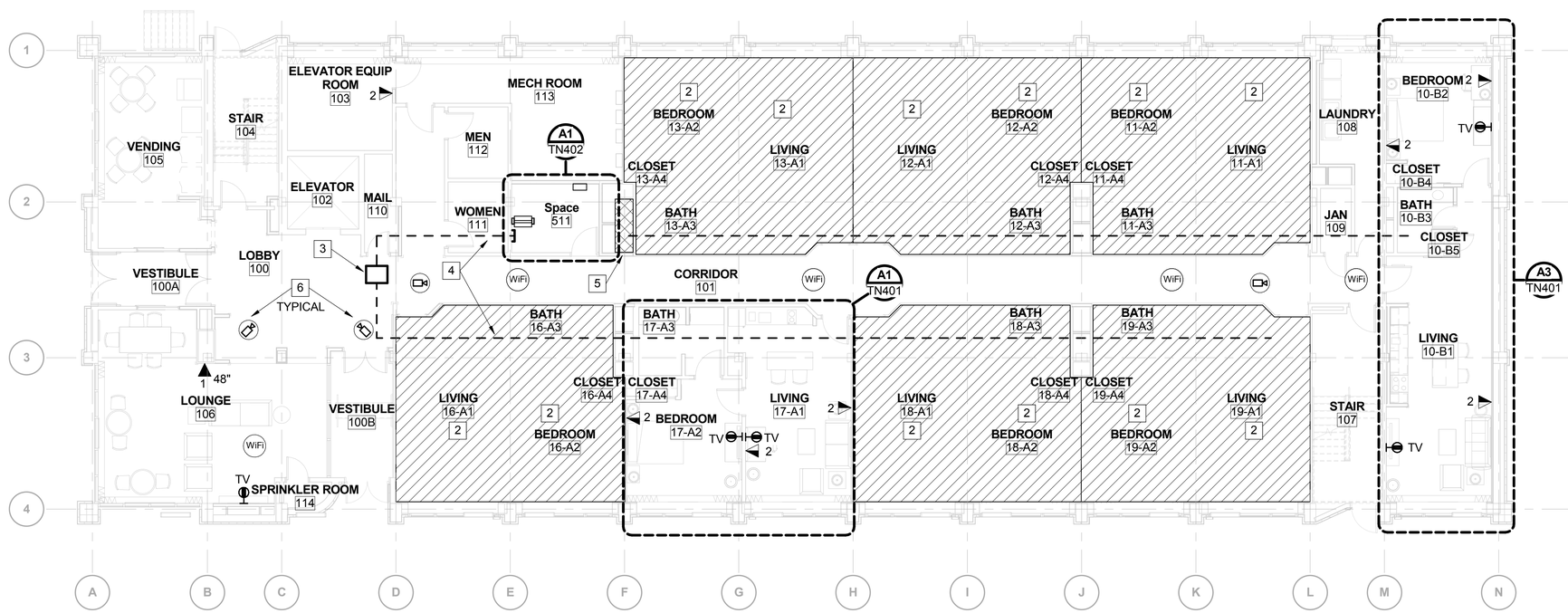
1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. SEE T-001 FOR TELECOM LEGEND, ABBREVIATIONS AND GENERAL NOTES.
4. NO CONDUITS SHALL BE EXPOSED IN THE LIVING ROOM, BEDROOM OR CORRIDOR.

NEW WORK NOTES:

1. SEE DETAIL A1 ON SHEET TN401 FOR MORE DETAIL.
2. SEE DETAIL A3 ON SHEET TN401 FOR MORE DETAIL.
3. PROVIDE JUNCTION BOX ABOVE CEILING SIZED TO ACCOMODATE INCOMING AND OUTGOING CONDUITS.
4. SUGGESTED ROUTING FOR TELECOMMUNICATIONS CONDUITS. PROVIDE CONDUITS AS SIZED ON RISER ON SHEET TN501. COORDINATE ROUTING SUCH THAT THE CONDUITS ARE ROUTED ABOVE NEW GYPSUM CEILING. COORDINATE WITH OTHER TRADES AND PARALLEL OTHER CONDUITS AND PIPES WHERE POSSIBLE. ALL TELECOMMUNICATIONS CABLING SHALL BE IN CONDUIT. PROVIDE SLEEVES AS REQUIRED THROUGH EXISTING WALLS. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FROM BELOW.
5. LOCATION OF TELECOMMUNICATION RISER CONDUITS FROM BASEMENT. MOUNT CONDUITS TO WALL OF CHASE AS REQUIRED. SEE RISER ON SHEET TN501 FOR CONDUIT SIZES.
6. PROVIDE DOME CAMERA, CONDUIT AND BOXES FOR CCTV CAMERA. PROVIDE ONE CAT6 CABLE TO EACH CAMERA. SEE SHEET TN501 FOR MORE INFORMATION.

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
SHAWN WHALEN
REG. NO. 172281R
EXPIRES 12-31-17
SIGNATURE

May 3 2016 1:50 PM



PLAN NORTH

TELECOMMUNICATIONS NEW WORK PLAN - 1ST FLOOR

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

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MINNESOTA PROFESSIONAL ENGINEER
SHAWN M. WHALEN
23964
MINNEAPOLIS, MN

May 3 2016 1:47 PM

SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320

A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	SMW	DRW	CGK	CHK	SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATIONS NEW WORK PLAN - 1ST FLOOR

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722154
SHEET 168 OF 177

TN101

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP87997_E_jcashwell.rvt
REV/DATE: 5/3/2016 9:29:07 AM

LEGEND:

INDICATES TYPICAL ROOM LAYOUT. SEE KEYNOTES AND SHEET TN401 FOR MORE INFORMATION.

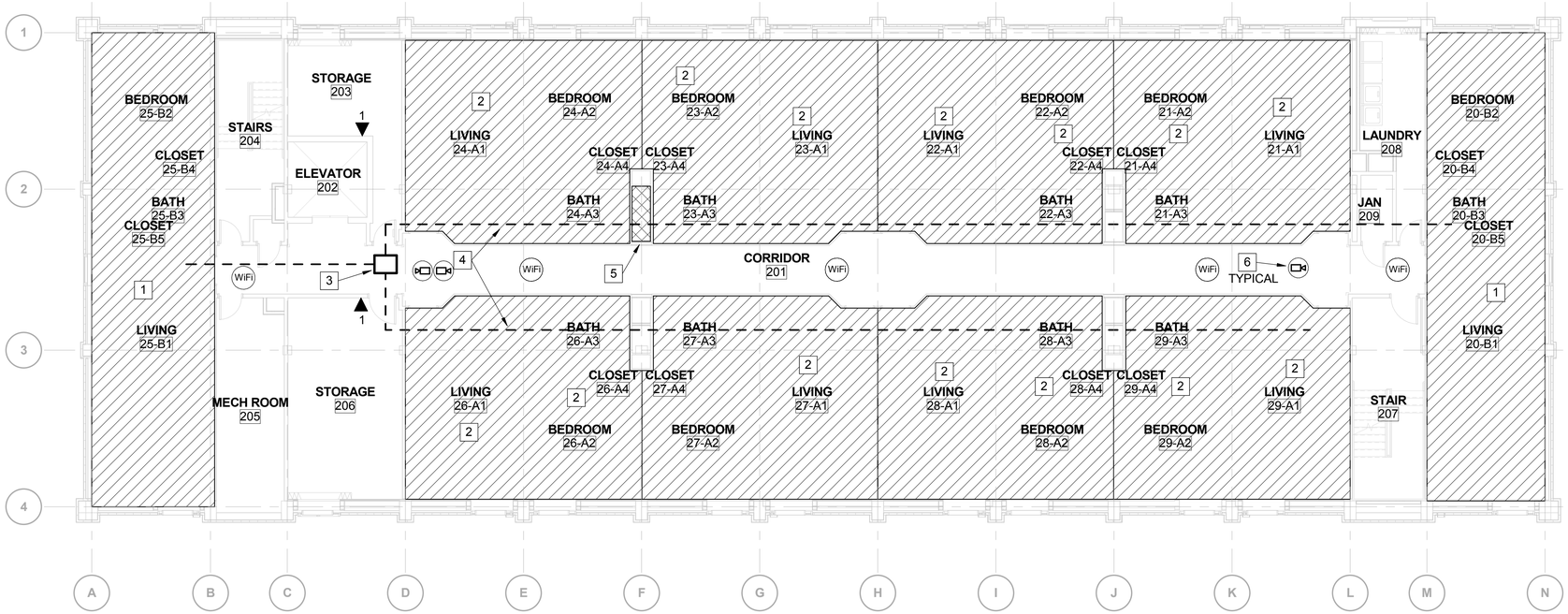
GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. SEE T-001 FOR TELECOM LEGEND, ABBREVIATIONS AND GENERAL NOTES.
4. NO CONDUITS SHALL BE EXPOSED IN THE LIVING ROOM, BEDROOM OR CORRIDOR.

NEW WORK NOTES:

1. SEE DETAIL A1 ON SHEET TN401 FOR MORE DETAIL.
2. SEE DETAIL A3 ON SHEET TN401 FOR MORE DETAIL.
3. PROVIDE JUNCTION BOX ABOVE CEILING SIZED TO ACCOMODATE INCOMING AND OUTGOING CONDUITS.
4. SUGGESTED ROUTING FOR TELECOMMUNICATIONS CONDUITS. PROVIDE CONDUITS AS SIZED ON RISER ON SHEET TN501. COORDINATE ROUTING SUCH THAT THE CONDUITS ARE ROUTED ABOVE NEW GYPSUM CEILING. COORDINATE WITH OTHER TRADES AND PARALLEL OTHER CONDUITS AND PIPES WHERE POSSIBLE. ALL TELECOMMUNICATIONS CABLING SHALL BE IN CONDUIT. PROVIDE SLEEVES AS REQUIRED THROUGH EXISTING WALLS. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FROM BELOW.
5. LOCATION OF TELECOMMUNICATION RISER CONDUITS FROM BASEMENT. MOUNT CONDUITS TO WALL OF CHASE AS REQUIRED. SEE RISER ON SHEET TN501 FOR CONDUIT SIZES.
6. PROVIDE DOME CAMERA, CONDUIT AND BOXES FOR CCTV CAMERA. PROVIDE ONE CAT6 CABLE TO EACH CAMERA. SEE SHEET TN501 FOR MORE INFORMATION.

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
SHAWN WHALEN
REG. NO. 172281R
EXPIRES 12-31-17
SIGNATURE
May 3 2016 1:50 PM



PLAN NORTH

TELECOMMUNICATIONS NEW WORK PLAN - 2ND FLOOR

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

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MINNESOTA PROFESSIONAL ENGINEER
SHAWN M. WHALEN
23964
MINNEAPOLIS, MN
May 3 2016 1:47 PM
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES SMW	DRW CGK	CHK SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NORTH IPT NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATIONS NEW WORK PLAN - 2ND FLOOR

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722155
SHEET 169 OF 177

TN102

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP\87997_E_jccashwell.rvt
REVDATE: 5/3/2016 9:29:09 AM

LEGEND:

INDICATES TYPICAL ROOM LAYOUT. SEE KEYNOTES AND SHEET TN401 FOR MORE INFORMATION.

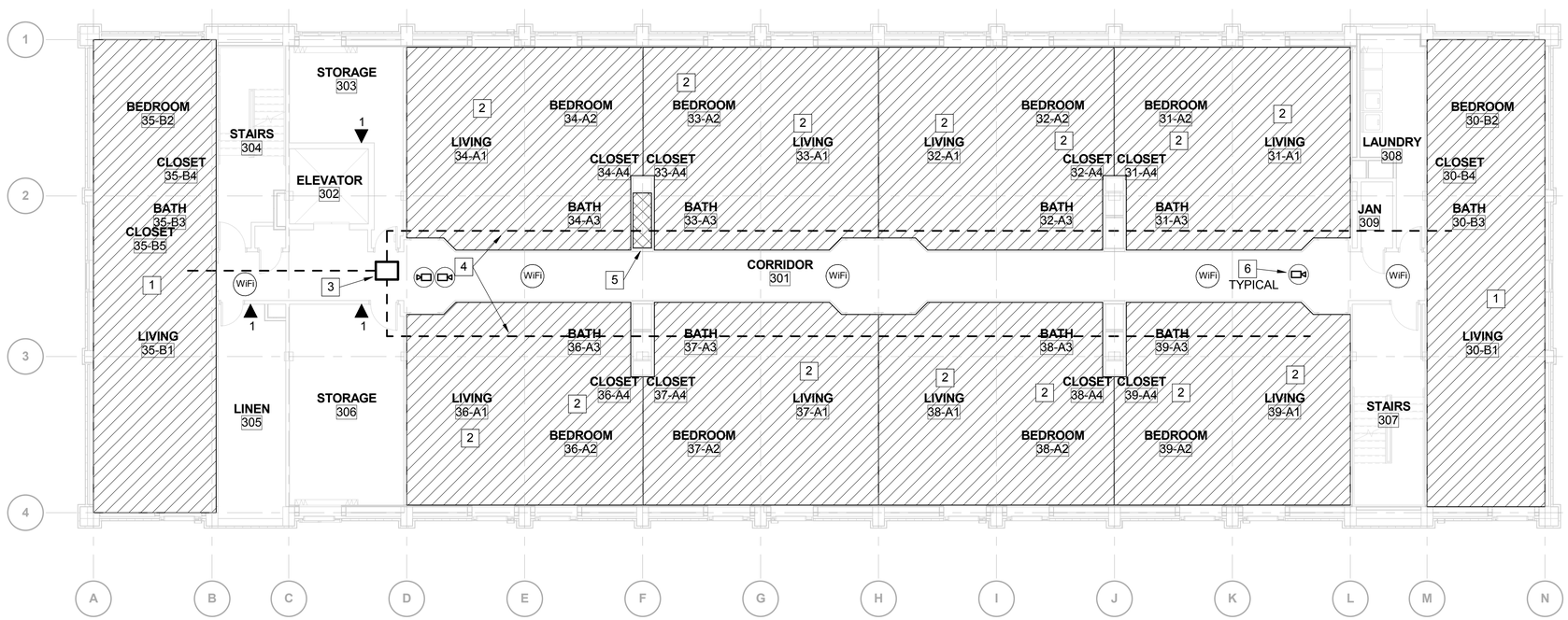
GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. SEE T-001 FOR TELECOM LEGEND, ABBREVIATIONS AND GENERAL NOTES.
4. NO CONDUITS SHALL BE EXPOSED IN THE LIVING ROOM, BEDROOM OR CORRIDOR.

NEW WORK NOTES:

1. SEE DETAIL A1 ON SHEET TN401 FOR MORE DETAIL.
2. SEE DETAIL A3 ON SHEET TN401 FOR MORE DETAIL.
3. PROVIDE JUNCTION BOX ABOVE CEILING SIZED TO ACCOMODATE INCOMING AND OUTGOING CONDUITS.
4. SUGGESTED ROUTING FOR TELECOMMUNICATIONS CONDUITS. PROVIDE CONDUITS AS SIZED ON RISER ON SHEET TN501. COORDINATE ROUTING SUCH THAT THE CONDUITS ARE ROUTED ABOVE NEW GYPSUM CEILING. COORDINATE WITH OTHER TRADES AND PARALLEL OTHER CONDUITS AND PIPES WHERE POSSIBLE. ALL TELECOMMUNICATIONS CABLING SHALL BE IN CONDUIT. PROVIDE SLEEVES AS REQUIRED THROUGH EXISTING WALLS. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FROM BELOW.
5. LOCATION OF TELECOMMUNICATION RISER CONDUITS FROM BASEMENT. MOUNT CONDUITS TO WALL OF CHASE AS REQUIRED. SEE RISER ON SHEET TN501 FOR CONDUIT SIZES.
6. PROVIDE DOME CAMERA, CONDUIT AND BOXES FOR CCTV CAMERA. PROVIDE ONE CAT6 CABLE TO EACH CAMERA. SEE SHEET TN501 FOR MORE INFORMATION.

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
SHAWN WHALEN
REG. NO. 172281R
EXPIRES 12-31-17
SIGNATURE
May 3 2016 1:50 PM



PLAN NORTH

TELECOMMUNICATIONS NEW WORK PLAN - 3RD FLOOR

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

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MINNESOTA PROFESSIONAL ENGINEER
SHAWN M. WHALEN
23954
MINNEAPOLIS, MN
May 3 2016 1:47 PM
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT, NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	SMW	DRW	CGK	CHK	SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATIONS NEW WORK PLAN - 3RD FLOOR

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722156
SHEET 170 OF 177

TN103

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP\87997_E_jcashwell.rvt
REV/DATE: 5/3/2016 9:29:11 AM

LEGEND:

INDICATES TYPICAL ROOM LAYOUT. SEE KEYNOTES AND SHEET TN401 FOR MORE INFORMATION.

GENERAL NOTES:

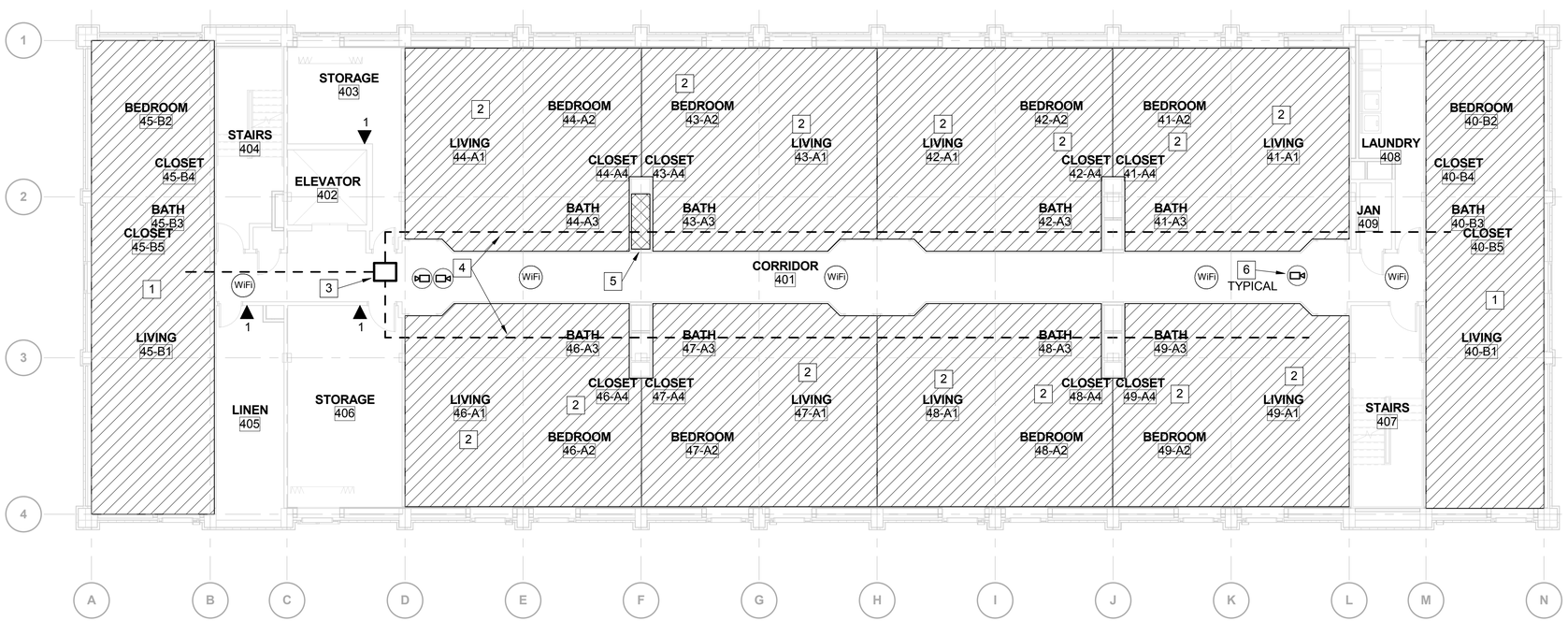
1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. SEE T-001 FOR TELECOM LEGEND, ABBREVIATIONS AND GENERAL NOTES.
4. NO CONDUITS SHALL BE EXPOSED IN THE LIVING ROOM, BEDROOM OR CORRIDOR.

NEW WORK NOTES:

1. SEE DETAIL A1 ON SHEET TN401 FOR MORE DETAIL.
2. SEE DETAIL A3 ON SHEET TN401 FOR MORE DETAIL.
3. PROVIDE JUNCTION BOX ABOVE CEILING SIZED TO ACCOMODATE INCOMING AND OUTGOING CONDUITS.
4. SUGGESTED ROUTING FOR TELECOMMUNICATIONS CONDUITS. PROVIDE CONDUITS AS SIZED ON RISER ON SHEET TN501. COORDINATE ROUTING SUCH THAT THE CONDUITS ARE ROUTED ABOVE NEW GYPSUM CEILING. COORDINATE WITH OTHER TRADES AND PARALLEL OTHER CONDUITS AND PIPES WHERE POSSIBLE. ALL TELECOMMUNICATIONS CABLING SHALL BE IN CONDUIT. PROVIDE SLEEVES AS REQUIRED THROUGH EXISTING WALLS. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FROM BELOW.
5. LOCATION OF TELECOMMUNICATION RISER CONDUITS FROM BASEMENT. MOUNT CONDUITS TO WALL OF CHASE AS REQUIRED. SEE RISER ON SHEET TN501 FOR CONDUIT SIZES.
6. PROVIDE DOME CAMERA, CONDUIT AND BOXES FOR CCTV CAMERA. PROVIDE ONE CAT6 CABLE TO EACH CAMERA. SEE SHEET TN501 FOR MORE INFORMATION.

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
SHAWN WHALEN
REG. NO. 172281R
EXPIRES 12-31-17
SIGNATURE

May 3 2016 1:50 PM



TELECOMMUNICATIONS NEW WORK PLAN - 4TH FLOOR

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

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MINNESOTA PROFESSIONAL ENGINEER
SHAWN M. WHALEN
23954
MINNEAPOLIS, MN

May 3 2016 1:47 PM

SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320

A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES SMW	DRW CGK	CHK SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NORTH IPT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATIONS NEW WORK PLAN - 4TH FLOOR

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722157
SHEET 171 OF 177

TN104

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP\87997_E_jcashwell.rvt
REVDATE: 5/3/2016 9:29:13 AM

LEGEND:

INDICATES TYPICAL ROOM LAYOUT. SEE KEYNOTES AND SHEET TN401 FOR MORE INFORMATION.

GENERAL NOTES:

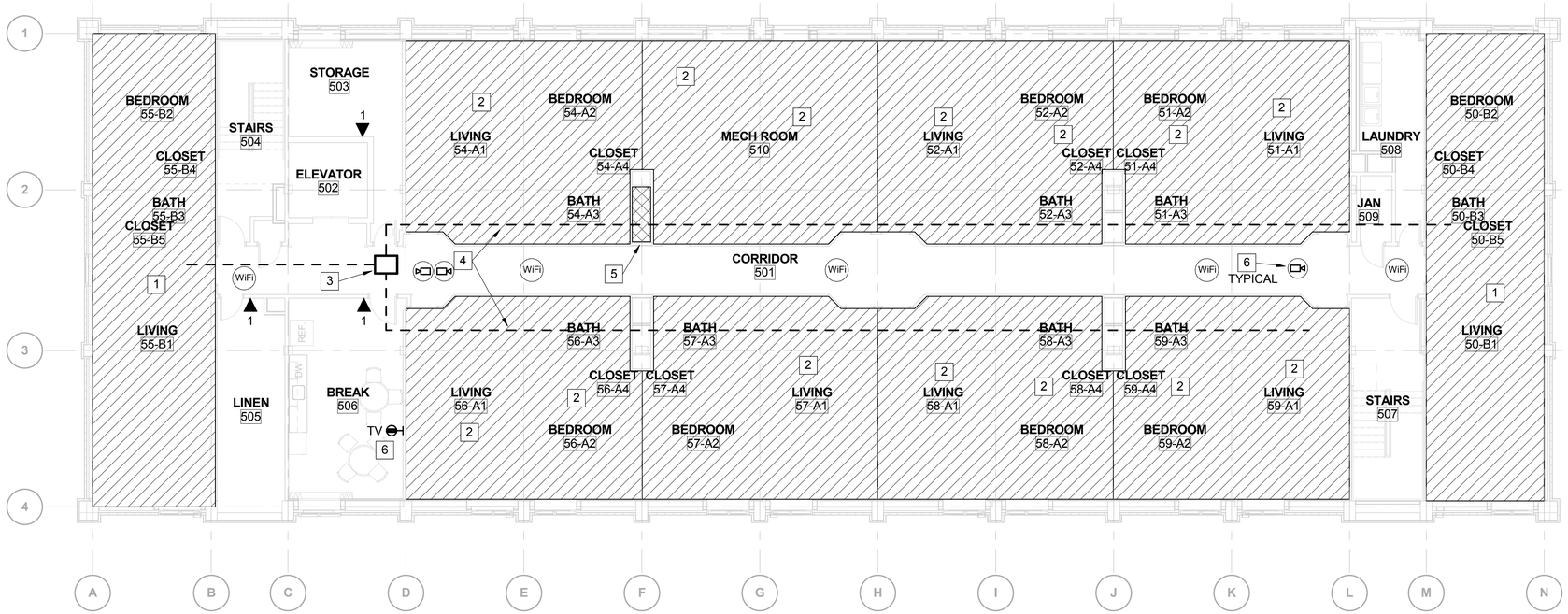
1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. SEE T-001 FOR TELECOM LEGEND, ABBREVIATIONS AND GENERAL NOTES.
4. NO CONDUITS SHALL BE EXPOSED IN THE LIVING ROOM, BEDROOM OR CORRIDOR.

NEW WORK NOTES:

1. SEE DETAIL A1 ON SHEET TN401 FOR MORE DETAIL.
2. SEE DETAIL A3 ON SHEET TN401 FOR MORE DETAIL.
3. PROVIDE JUNCTION BOX ABOVE CEILING SIZED TO ACCOMODATE INCOMING AND OUTGOING CONDUITS.
4. SUGGESTED ROUTING FOR TELECOMMUNICATIONS CONDUITS. PROVIDE CONDUITS AS SIZED ON RISER ON SHEET TN501. COORDINATE ROUTING SUCH THAT THE CONDUITS ARE ROUTED ABOVE NEW GYPSUM CEILING. COORDINATE WITH OTHER TRADES AND PARALLEL OTHER CONDUITS AND PIPES WHERE POSSIBLE. ALL TELECOMMUNICATIONS CABLING SHALL BE IN CONDUIT. PROVIDE SLEEVES AS REQUIRED THROUGH EXISTING WALLS. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FROM BELOW.
5. LOCATION OF TELECOMMUNICATION RISER CONDUITS FROM BASEMENT. MOUNT CONDUITS TO WALL OF CHASE AS REQUIRED. SEE RISER ON SHEET TN501 FOR CONDUIT SIZES.
6. PROVIDE DOME CAMERA, CONDUIT AND BOXES FOR CCTV CAMERA. PROVIDE ONE CAT6 CABLE TO EACH CAMERA. SEE SHEET TN501 FOR MORE INFORMATION.

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
SHAWN WHALEN
REG. NO. 172281R
EXPIRES 12-31-17
SIGNATURE

May 3 2016 1:50 PM



PLAN NORTH

TELECOMMUNICATIONS NEW WORK PLAN - 5TH FLOOR

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

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MINNESOTA PROFESSIONAL ENGINEER
SHAWN M. WHALEN
23954
MINNEAPOLIS, MN

May 3 2016 1:47 PM

SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320

A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT, NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	DRW	CHK
SMW	CGK	SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

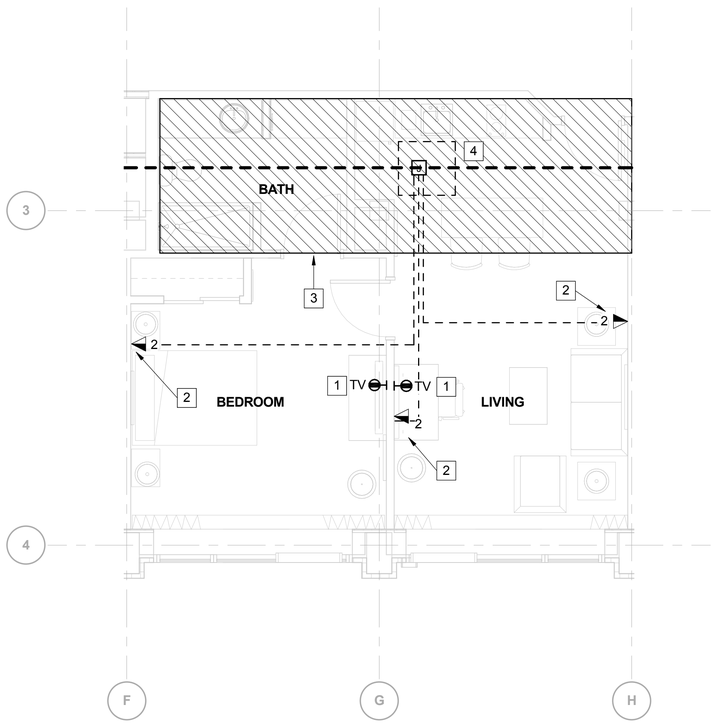
TELECOMMUNICATIONS NEW WORK PLAN - 5TH FLOOR

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722158
SHEET 172 OF 177

TN105

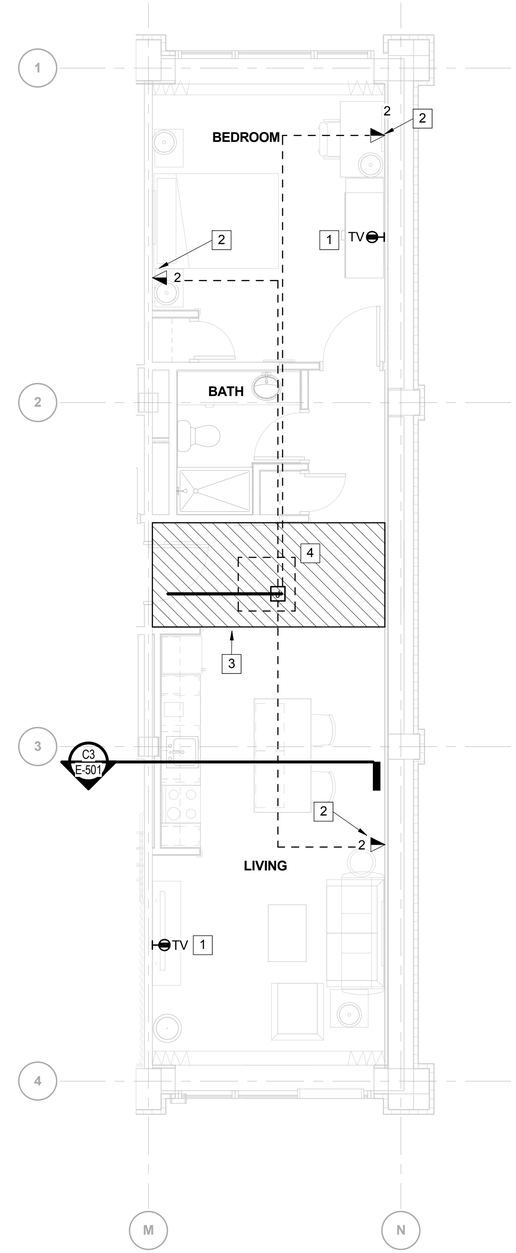
DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP87997_E_jcasheell.rvt
REV/DATE: 5/3/2016 9:29:14 AM



ENLARGED PLAN - TYPICAL UNIT "A" NEW WORK - TELECOM

A1 SCALE: 1/4" = 1'-0"



ENLARGED PLAN TYPICAL UNIT TYPE "B" - NEW WORK - TELECOM

A3 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. SEE T-001 FOR TELECOM LEGEND, ABBREVIATIONS AND GENERAL NOTES.
4. NO CONDUITS SHALL BE EXPOSED IN THE LIVING ROOM, BEDROOM OR CORRIDOR.

NEW WORK NOTES:

1. UTILIZE EXISTING CONDUIT RISERS THAT WERE SALVAGED DURING DEMOLITION. SEE 'TD' SERIES SHEETS FOR LOCATIONS. SEE DETAIL ON SHEET TN502 FOR CABLING AND OUTLET DETAILS.
2. PROVIDE 1" CONDUIT FROM JUNCTION BOX TO DEVICE LOCATION AS SHOWN. CONCEAL CONDUIT IN WALL. SEE SHEET TN502 FOR CABLING AND OUTLET DETAILS.
3. UTILIZE THIS AREA TO ROUTE ALL CONDUITS ABOVE CEILING. SEE ARCHITECTURAL PLANS FOR CEILING DETAILS. NEW CEILING WILL BE GYPSUM TYPE WITH LIMITED SPACE FOR CONDUIT ROUTING. COORDINATE ROUTING WITH OTHER TRADES AND RUN PARALLEL TO OTHER PIPES AND CONDUIT WHEN POSSIBLE.
4. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FROM BELOW VIA ACOUSTICAL TILE CEILING PANELS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND COORDINATE JUNCTION BOX LOCATION BASED ON ACCESS LOCATIONS.

SYM	DESCRIPTION	DATE	APPR

Bicsi — Registered Communications Distribution Designer — Shawn Whalen — Reg. No. 172281R — Expires 12-31-17 — Signature

May 3 2016 1:50 PM

Minnesota Professional Engineer — Shawn M. Whalen — 23954 — Minneapolis, MN

May 3 2016 1:47 PM

SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	SMW	DRW	CGK	CHK	SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NORTH IPT
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

ENLARGED PLAN

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722159
SHEET 173 OF 177

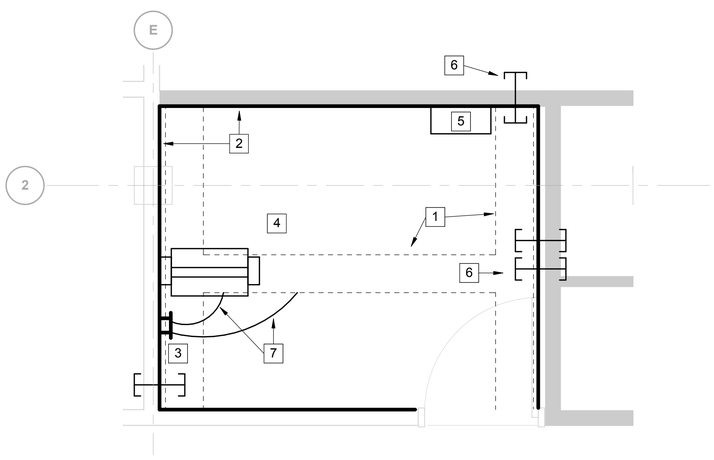
TN401

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP87997_E_jcashwell.rvt
REV/DATE: 5/3/2016 9:29:16 AM

GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. SEE T-001 FOR TELECOM LEGEND, ABBREVIATIONS AND GENERAL NOTES.
4. NO CONDUITS SHALL BE EXPOSED IN THE LIVING ROOM, BEDROOM OR CORRIDOR.



ENLARGED PLAN - TELECOMMUNCATIONS ROOM

A1 SCALE: 1/2" = 1'-0"

NEW WORK NOTES:

1. PROVIDE 12"W CABLE RUNWAY MOUNTED 6" ABOVE THE TOP OF CABINETS/RACKS. PROVIDE ALL REQUIRED PARTS FOR MOUNTING AND RADIUSES.
2. PROVIDE 3/4"X4'X8' PLYWOOD BOARD, TYPICAL (4) WALLS. REFER TO SPECIFICATIONS FOR FIRE RATING REQUIREMENTS.
3. COMMUNICATIONS MAIN GROUNDING BUS BAR (TMGB). REFER TO SPECIFICATIONS FOR REQUIREMENTS. GROUND ALL TELECOM EQUIPMENT TO TMGB.
4. PROVIDE CABLE RADIUS DROPOUT ABOVE EACH RACK FROM TRAY.
5. SYSTEM DOOR CONTROL PANELS AND HARDWARE POWER SUPPLIES; RESERVE WALL SPACE FLOOR TO CEILING FOR ACCESS CONTROL.
6. PROVIDE CONDUIT SLEEVE WITH FIRE-STOPPING. SEE DETAIL A3/TN502.
7. PROVIDE #6 AWG GREEN BONDING CONDUCTOR.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
SHAWN WHALEN
REG. NO. 172281R
EXPIRES 12-31-17
SIGNATURE
May 3 2016 1:50 PM

MINNESOTA
SHAWN M. WHALEN
23964
MINNEAPOLIS, MN
PROFESSIONAL ENGINEER
May 3 2016 1:47 PM
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO.

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES SMW	DRW CGK	CHK SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

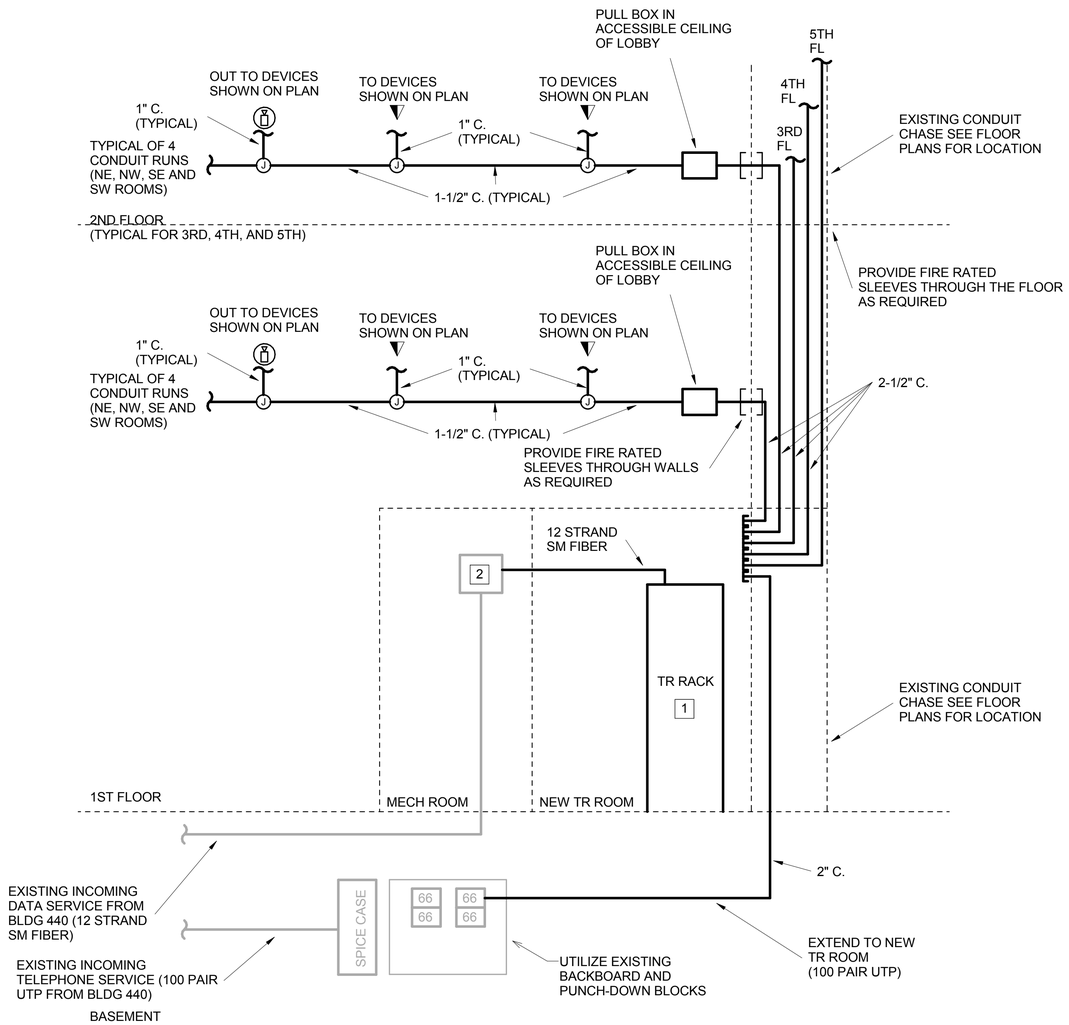
ENLARGED PLANS

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722160
SHEET 174 OF 177

TN402

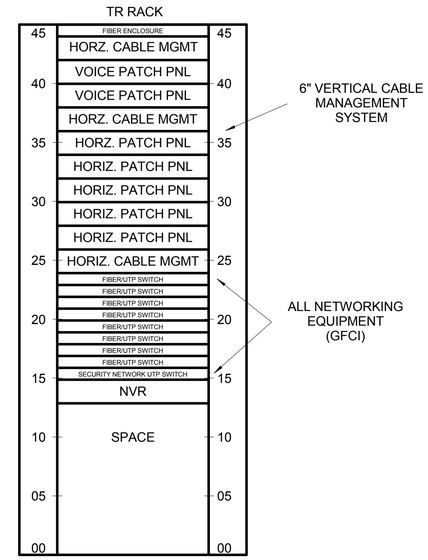
DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP\87997_E_jccashwell.rvt
REV/DATE: 5/3/2016 9:28:16 AM

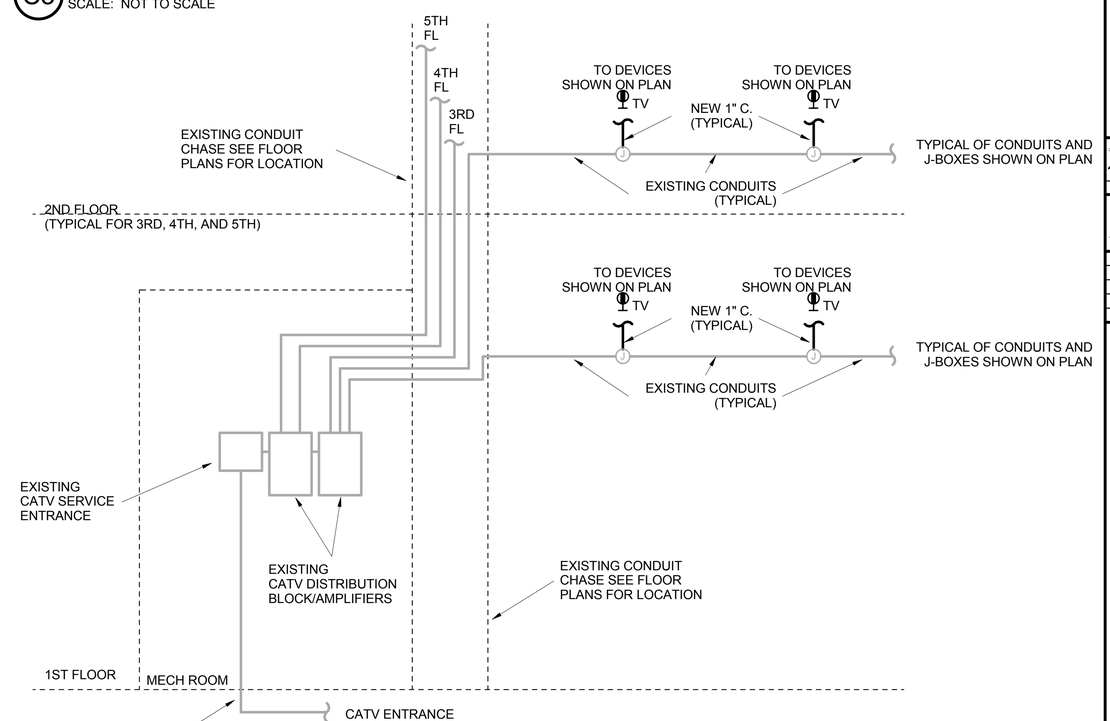


GENERAL NOTE: SEE SHEDULE ON SHEET TN502 FOR CABLING REQUIREMENTS TO EACH DEVICE

A1 TELECOMMUNICATION RISER DIAGRAM
SCALE: NOT TO SCALE



C3 TELECOMMUNICATION RACK ELEVATION
SCALE: NOT TO SCALE



GENERAL NOTE: SEE SHEDULE ON SHEET TN502 FOR CABLING REQUIREMENTS TO EACH DEVICE

A3 CATV RISER
SCALE: 12" = 1'-0"

GENERAL NOTES:

1. THIS SHEET SHALL READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
2. DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCMENT OF WORK.
3. SEE T-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
4. THESE DIAGRAMS INDICATES TYPICAL DEVICES. EXACT QUANTITIES AND LOCATIONS ARE INDICATED ON FLOOR PLANS.

NEW WORK NOTES:

1. PROVIDE NEW 2-POST RACK. SEE RACK ELEVATION ON THIS SHEET FOR EQUIPMENT IN THE RACK.
2. UTILIZE EXISTING FIBER ENCLOSURE. FUSION SPLICE EXISTING 12 STRANDS TO NEW FEEDER CABLE AND EXTEND TO NEW TR.

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
SHAWN WHALEN
REG. NO. 172281R
EXPIRES 12-31-17
SIGNATURE
May 3 2016 1:50 PM

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MINNESOTA
SHAWN M. WHALEN
23964
MINNEAPOLIS, MN
PROFESSIONAL ENGINEER
May 3 2016 1:47 PM
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM/BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	DRW	CHK
SMW	CGK	SMW

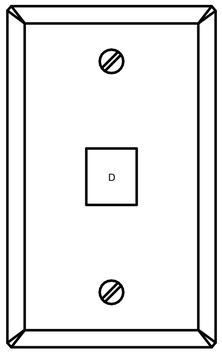
PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NORTH IPT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF BUILDING 678
TELECOMMUNICATIONS DIAGRAMS

SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722161
SHEET 175 OF 177
TN501

DRAW/FORM REVISION: 10 MAY 2014

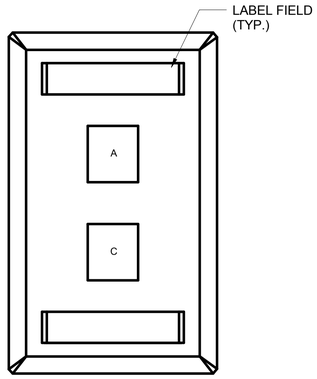
FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP87997_E_jccashwell.rvt
REVDATE: 5/3/2016 9:28:17 AM



TV
CABLE TV WALL FACEPLATE

SEE SHEET I-121 AND I-122 FOR EXACT OUTLET HEIGHT AND LOCATION. COORDINATE LOCATIONS WITH ELECTRICAL AND FURNITURE.

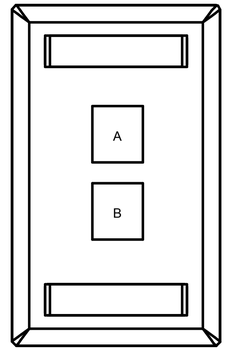
C1 CABLE TV OUTLET
SCALE: NOT TO SCALE



2
VOICE/DATA
WALL FACEPLATE

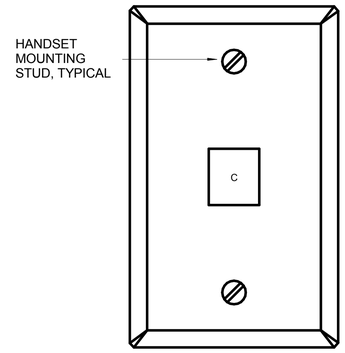
SEE SHEET I-121 AND I-122 FOR EXACT OUTLET HEIGHT AND LOCATION. COORDINATE LOCATIONS WITH ELECTRICAL AND FURNITURE.

C2 COMM OUTLET TYPE 2
SCALE: NOT TO SCALE



WiFi WIRELESS ACCESS POINT

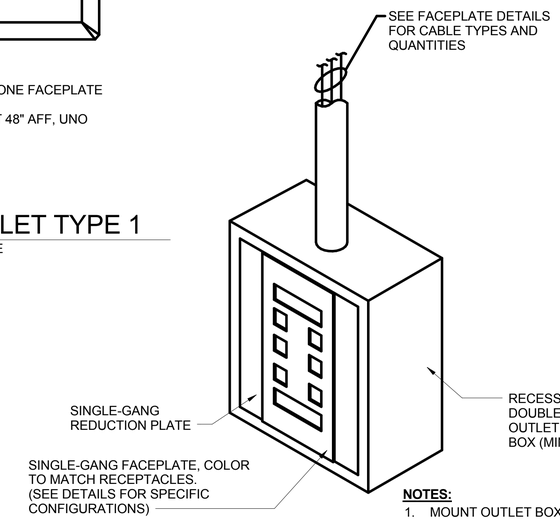
C3 COMM OUTLET WAP
SCALE: NOT TO SCALE



1
VOICE WALL PHONE FACEPLATE

WALL MOUNT AT 48" AFF, UNO

C4 COMM OUTLET TYPE 1
SCALE: NOT TO SCALE



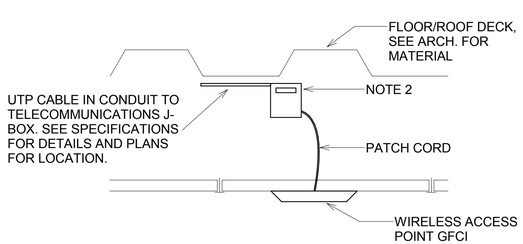
NOTES:
1. MOUNT OUTLET BOX AT 18" AFF (UON).

B4 TYPICAL COMMUNICATIONS BACKBOX
SCALE: NOT TO SCALE

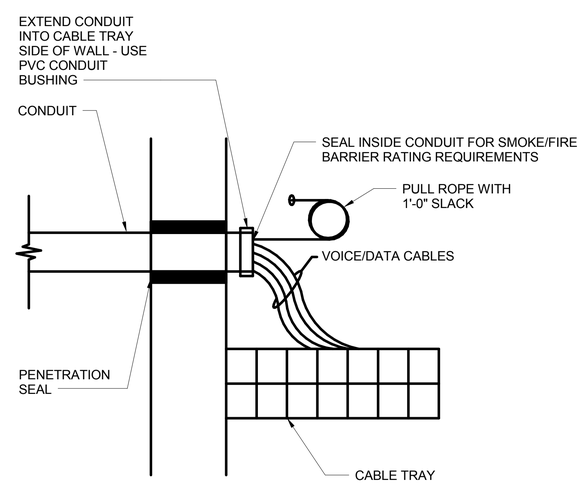
MODULAR JACK AND CABLING SCHEDULE					
APPEARANCE	DESIGNATOR	MODULAR JACK	COLOR	CABLING	COLOR
	A	CAT 6 8-PIN MODULAR NON-KEYED DATA/VOIP	BLUE	4-PAIR CATEGORY 6 UTP	BLUE
	B	BLANK INSERT	IVORY	NOT APPLICABLE	N/A
	C	CAT 6 8-PIN MODULAR NON-KEYED TELEPHONE	GRAY	4-PAIR CATEGORY 6 UTP	GRAY
	D	CATV F-TYPE CONNECTOR	IVORY	COAXIAL CABLING	BLACK

NOTES:

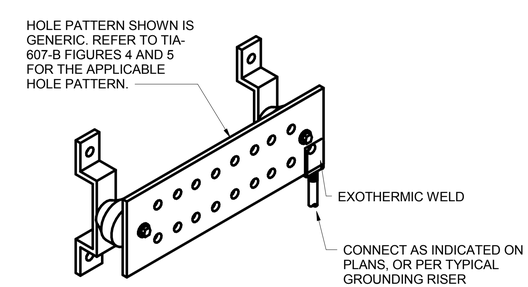
1. THIS CABLING TO APPLY AT ALL [WiFi] LOCATIONS SHOWN ON PLAN DRAWINGS.
2. SURFACE MOUNTED PLENUM RATED BOX WITH COMMUNICATIONS OUTLET AND MOUNTING FLANGES FOR STRUCTURE OR CEILING SUPPORT CABLE MOUNT



A1 WIRELESS ACCESS POINT MOUNTING DETAIL
SCALE: NOT TO SCALE



A3 TYPICAL CONDUIT TO CABLE TRAY TRANSITION
SCALE: NOT TO SCALE



NOTES:
1. TIA-607-B COPPER GROUND BAR WITH WALL MOUNTING BRACKETS AND INSULATORS. DIMENSIONS: 1/4" THICK, 4" HIGH, 12" LENGTH. AS MOUNT 24" AFF (UON).

A4 TYPICAL TMGB GROUND BAR DETAIL1
SCALE: NOT TO SCALE

SYM	DESCRIPTION	DATE	APPR

NAVFAC

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi SHAWN WHALEN REG. NO. 172281R EXPIRES 12-31-17 SIGNATURE
May 3 2016 1:50 PM

MINNESOTA SHAWN M. WHALEN 23964 MINNEAPOLIS MN PROFESSIONAL ENGINEER
May 3 2016 1:47 PM
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Duerfeldt
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES SMW	DRW CGK	CHK SMW
PM / DM	MLW/LEJ	
BRANCH MANAGER		
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
NEWPORT, RHODE ISLAND
RENOVATION OF BUILDING 678
TELECOMMUNICATION DETAILS

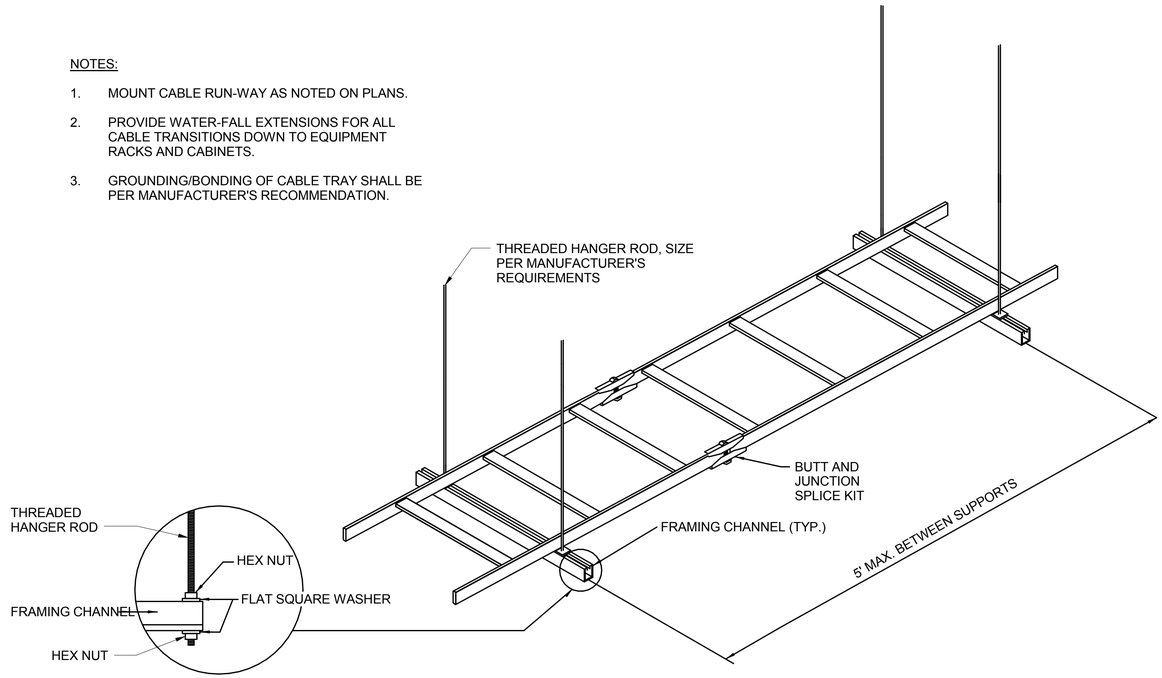
SCALE: AS NOTED
EPROJECT NO. 1382693
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12722162
SHEET 176 OF 177
TN502

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP\87997_E_jccashwell.rvt
REVDATE: 5/3/2016 9:23:18 AM

NOTES:

1. MOUNT CABLE RUN-WAY AS NOTED ON PLANS.
2. PROVIDE WATER-FALL EXTENSIONS FOR ALL CABLE TRANSITIONS DOWN TO EQUIPMENT RACKS AND CABINETS.
3. GROUNDING/BONDING OF CABLE TRAY SHALL BE PER MANUFACTURER'S RECOMMENDATION.



A1 TYPICAL CABLE RUN-WAY SUPPORT
SCALE: NOT TO SCALE

SYM	DESCRIPTION	DATE	APPR

NAVFAC

Bicsi
SHAWN WHALEN
REG. NO. 172281R
EXPIRES 12-31-17
SIGNATURE
May 3 2016 1:50 PM

MINNESOTA
SHAWN M. WHALEN
23964
MINNEAPOLIS, MN
PROFESSIONAL ENGINEER
May 3 2016 1:48 PM
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Greenfield
FOR COMMANDER NAVFAC

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	DRW	CHK
SMW	CGK	SMW

PM / DM MLW/LEJ
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDLANT
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
NEWPORT, RHODE ISLAND

RENOVATION OF BUILDING 678

TELECOMMUNICATION DETAILS

SCALE: **AS NOTED**
EPROJECT NO. **1382693**
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12722163
SHEET **177** OF **177**

TN503

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\87997-NGISB678\Models\MEP87997_E_jcashwell.rvt
REV/DATE: 5/3/2016 9:29:18 AM