NOTE:

1. NOT ALL SYMBOLS OR ABBREVIATIONS SHOWN WILL BE USED ON THIS PROJECT.

SHEET NAMING CONVENTION

T-001A

- 2 DIGIT DISCIPLINE DESIGNATOR (IF ONLY ONE LETTER IS USED, THE SECOND LETTER IS REPLACED WITH A DASH "-" AS A PLACEHOLDER)**
- 1 DIGIT SHEET TYPE DESIGNATOR
  - 0 - GENERAL
  - 1 - PLANS
  - 2 - ELEVATIONS
  - 3 - SECTIONS
  - 4 - ENLARGED PLANS
  - 5 - DETAILS
  - 6 - SCHEDULES AND DIAGRAMS
  - 7 - VARIES
  - 8 - VARIES
  - 9 - 3D VIEWS (ISO, PERSPECTIVES)
- 1 DIGIT AREA DESIGNATOR (AREA DESIGNATOR ONLY USED WHEN PLANS ARE SUBDIVIDED INTO AREAS.)
- 2 DIGIT SEQUENTIAL # (01-99) (FIRST DIGIT INDICATES PLAN TYPE. SECOND DIGIT INDICATES FLOOR)

TELECOMMUNICATIONS GENERAL NOTES:

1. EQUIPMENT (PIPING, DUCTWORK, MACHINERY, ATC) THAT DOES NOT SERVE EF,ER OR TR(S) SHALL NOT BE INSTALLED ABOVE OR IN IT SPACES, NOR SHALL THIS EQUIPMENT PASS THROUGH OR ENTER THE EF, ER OR TR(S).
2. ANY MOTOR, TRANSFORMER OR OTHER ELECTRICAL DEVICE GREATER THAN 5KVA SHALL HAVE A MINIMUM OF 47" SPACE SEPARATION FROM ANY WALL OF EF, ER OR TR(S).
3. CONTRACTOR SHALL CAREFULLY COORDINATE WORK WITH OTHER TRADES THROUGH THE GENERAL CONTRACTOR AND SHALL BE RESPONSIBLE FOR SECURING SPACE REQUIREMENTS FOR ELECTRICAL EQUIPMENT CLEARANCE FOR RECESSED LIGHTING FIXTURES AND CORRECT ROUGH-IN LOCATIONS OF ELECTRICAL CONNECTIONS.
4. VERIFY EXACT HEIGHT OF EACH COUNTERTOP AND BACKSPLASH ON ARCHITECTURAL DETAILS AND/OR CASE WORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS TO LOCATE BOTTOM OF OUTLET BOX 4" ABOVE TOP OF BACKSPLASH. IF NO BACKSPLASH IS USED, LOCATE BOTTOM OF OUTLET BOX 6" ABOVE COUNTERTOP.
5. REFER TO DETAILS AND RISER DIAGRAMS FOR CABLE AND CONDUIT SIZES NOT SHOWN ON PLANS.
6. "PROVIDE" IS AN INCLUSIVE TERM USED TO DESCRIBE ASPECTS OF THE WORK TO BE ACCOMPLISHED, AND IS HEREBY DEFINED TO REQUIRE TO STORE, FURNISH, INSTALL, MOUNT, CONNECT, CONTROL AND POWER EQUIPMENT INDICATED, AS WELL AS ALL APPURTENANCES REQUIRED TO MAKE ELECTRICAL SYSTEMS OPERATE AS INDICATED WITHIN THESE DRAWINGS AND SPECIFICATIONS AND TO FULFILL THE SCOPE OF WORK.
7. PROVIDE WELDED WIRE TYPE CABLE TRAY IN ALL AREAS EXCEPT TR(S). PROVIDE LADDER TYPE CABLE TRAY IN TR(S).
8. FLOOR BOXES AND POKE THRU'S SHALL BE SIZED TO NOT EXCEED TELECOMMUNICATIONS CABLE MINIMUM BEND RADIUS.
9. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF RATED WALLS. FIRESTOP FIRE RATED BARRIERS IN ACCORDANCE WITH FIRESTOPPING SPECIFICATIONS 07 84 00. SLEEVES AND SLOTS SHALL NOT BE LEFT OPEN AFTER CABLE INSTALLATION. ALL SLEEVES AND SLOTS SHALL BE FIRESTOPPED IN ACCORDANCE WITH FIRESTOPPING SPECIFICATION 07 84 00.
10. PROVIDE A MINIMUM OF 12" SEPARATION BETWEEN ALL DATA OUTLETS AND ANY POWER LOAD GREATER THAN 5KVA.
11. PROVIDE 3.28' OF CLEAR, UNOBSTRUCTED SPACE FOR THE INSTALLATION OF ALL CABLING AND EQUIPMENT MOUNTED ON WALLS, RACKS (FRONT AND REAR), CABINETS (FRONT AND REAR) AND ENCLOSURES. PROVIDE AT LEAST 6" DEPTH OFF THE WALL FOR WALL-MOUNTED EQUIPMENT. ALLOCATE SPACE OF 3.28' WIDE, 3.28' DEEP AND 7.5' HIGH FOR EACH EQUIPMENT RACK, CABINET OR ENCLOSURE. PROVIDE SPACE FOR AN AISLE OF AT LEAST 3.28' WIDE IN THE FRONT AND IN THE REAR OF THE SPACE FOR EACH EQUIPMENT RACK, CABINET OR ENCLOSURE. THIS SPACE SHALL TAKE INTO ACCOUNT THE DEPTH OF RACK-MOUNTED EQUIPMENT AS WELL AS WALL-MOUNTED EQUIPMENT AND HARDWARE.
12. LOCATE LIGHT SWITCHES NEAR THE ENTRANCE(S) TO THE TELECOMMUNICATION ROOM. DIMMERS AND VACANCY SENSORS ARE NOT PERMITTED TO BE USED WITHIN THE TELECOMMUNICATION ROOM. PROVIDE A MINIMUM OF 50 FOOT-CANDLES OF LIGHT AT THE POINT OF CABLE TERMINATION.
13. MINIMUM SIZE OF TELECOMMUNICATION ROOMS BASED ON THE AREA IT IS SERVING:
    - 5,000 SQ FT. OR LESS, 10' x 8' MINIMUM.
    - 5,000 SQ FT. TO 8,000 SQ FT., 10' x 9' MINIMUM.
    - 8,000 SQ FT. TO 10,000 SQ FT., 10' x 11' MINIMUM.
14. DO NOT SERVICE MORE THAN 10,000 SQ FT. FROM ONE TELECOMMUNICATION ROOM.
15. PROVIDE TWO RACK UNITS OF HORIZONTAL CABLE MANAGEMENT FOR EVERY ONE RACK UNIT PATCH PANEL.
16. PROVIDE AT LEAST TWO WALLS IN EACH TELECOMMUNICATION ROOM WITH AC GRADE 'A' OR BETTER, FIRE-RESISTANT VOID FREE PLYWOOD PAINTED LIGHT GRAY IN COLOR. THE PLYWOOD SHOULD BE 8 FT. HIGH WITH A MINIMUM THICKNESS OF ¾". PLYWOOD SHOULD BE KILN-DRIED TO MAXIMUM MOISTURE CONTENT OF 15%. MOUNT PLYWOOD AT 8" AFF MINIMUM.
17. COORDINATE CABLE TRAY, LIGHT FIXTURE AND MECHANICAL UNIT INSTALLATION WITHIN TELECOMMUNICATION ROOM WITH ALL TRADES PRIOR TO INSTALLATION.
18. SLEEVES OR CONDUITS ENTERING INTO THE TELECOMMUNICATION ROOM SHALL EXTEND INTO THE SPACE A MINIMUM OF 3" FROM THE FLOOR, WALL OR CEILING.
19. BOND TMGB TO STRUCTURAL STEEL, ALL DATA RACKS, CABINETS OR ENCLOSURES, CABLE TRAY AND THE ELECTRICAL PANEL GROUND BUS WITHIN THE TELECOMMUNICATION ROOMS AS APPLICABLE. ALL BONDING CONDUCTORS WITHIN A TELECOMMUNICATION ROOM SHALL BE #4 AWG CU MIN. ALL BONDS TO THE TMGB OR TGB SHALL BE BY IRREVERSIBLE COMPRESSION-TYPE CONNECTIONS.

TELECOMMUNICATIONS ABBREVIATIONS

A OR AMP	AMPERE(S)
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CAT	CATEGORY
CATV	CABLE TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CU	COPPER
D	DEPTH
DDC	DIRECT DIGITAL CONTROL FOR HVAC
EC	EMPTY CONDUIT
EF	ENTRANCE FACILITY
EIA	ELECTRONICS INDUSTRIAL ALLIANCE
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
ER	EQUIPMENT ROOM
ETR	EXISTING TO REMAIN
EXIST or EX	EXISTING
FWE	FURNISHED WITH EQUIPMENT
G OR GND	GROUND
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GRS	GALVANIZED RIGID STEEL CONDUIT
H or HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM
IMC	INTERMEDIATE METAL CONDUIT
J OR JB	JUNCTION BOX
K	KILO
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATT
L	LENGTH
LAN	LOCAL AREA NETWORK
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MIN	MINIMUM
MM	MULTIMODE
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIPR	NON-SECURE INTERNET PROTOCOL ROUTER
NTS	NOT TO SCALE
OFOI	OWNER FURNISHED OWNER INSTALLED
PDS	PROTECTIVE DISTRIBUTION SYSTEM
PVC	POLYVINYL CHLORIDE
RMC	RIGID METAL CONDUIT
RPP	REMOTE POWER PANEL
RU	RACK UNIT
SA	SURGE ARRESTOR
SIPR	SECRET INTERNET PROTOCOL ROUTER
SM	SINGLE MODE
SPEC	SPECIFICATIONS
TGB	TELECOMMUNICATIONS GROUND BAR
TIA	TELECOMMUNICATIONS INDUSTRIAL ALLIANCE
TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
TP	TWISTED PAIR
TR	TELECOMMUNICATIONS ROOM
TYP	TYPICAL
UIO	UNLESS INDICATED OTHERWISE
UL	UNDERWRITERS LABORATORY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VA	VOLT AMPERES
W	WATTS or WIRE or WIDTH
WAP	WIRELESS ACCESS POINT

TELECOMMUNICATIONS LEGEND

COMMUNICATIONS

- TV — COAXIAL CATV OUTLET BOX WITH PULL STRING MOUNTED 60" AFF, UIO
- COMMUNICATIONS VOICE/DATA OUTLET BOX WITH PULL STRING, MOUNT 18" AFF, UIO
- 4-GANG FLOOR BOX. SEE DETAIL C2/T-502.
- COAXIAL CATV OUTLET CEILING MOUNTED
- WALL MOUNTED JUNCTION BOX FOR VOICE/DATA CONNECTION TO MODULAR WORKSTATION FURNITURE.
- CCTV CAMERA
- CONTROL STATION
- WAP — WIRELESS ACCESS POINT
- DOORBELL, MOUNT AT 48" AFF, UIO
- DOORBELL SYSTEM RECEIVER

WIRING

- RACEWAY EXPOSED TO VIEW
- CONCEALED RACEWAY, LOCATED IN WALL OR ABOVE FINISHED CEILING
- UNDERGROUND RACEWAY, LOCATED BELOW GRADE OR CONCRETE SLAB
- FLEXIBLE RACEWAY
- RACEWAY TURNED TOWARD VIEWER
- RACEWAY TURNED AWAY FROM VIEWER
- RACEWAY TERMINATION, STUB-OUT AND CAP
- CABLE TRAY (SIZE AS INDICATED ON PLAN)

ELECTRONIC SECURITY

- AC — ACCESS CONTROL JUNCTION BOX
- DC — BALANCED MAGNETIC DOOR CONTACT
- ES — ELECTRIC STRIKE
- CR — CARD READER
- EL — ELECTRIC LOCKSET
- EH — ELECTRIC HINGE
- SP — SECURITY PANEL
- REX — REQUEST TO EXIT
- KP — KEY PAD
- ML — MAGLOCK
- DR — DOOR RELEASE

NOTE:

1. PATHWAYS ONLY INCLUDED IN THE BID.

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DESIGNED BY: TCG
DRAWN BY: TCG
CHECKED BY: TEH
SUBMITTED BY: BJA
ISSUED FOR CONSTRUCTION: 00-MMM-YYYY

DATE | DESCRIPTION | MARK

CHRISTOPHER G. GOLDEN, REGISTERED ARCHITECT
OCCUPANCY CLASSIFICATION: BUSINESS (B) AND STORAGE (S1)*
TYPE OF CONSTRUCTION: TYPE IIB - NONCOMBUSTIBLE
*PER MIN. 406.2.4 AIR SEPARATION, ENTIRE BUILDING IS SPRINKLERED AND THE STORAGE IS LESS THAN 10% OF THE AREA OF THE ROOM

NORFOLK SOUTHERN CORP.
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TELECOMMUNICATIONS GENERAL NOTES, ABBREVIATIONS & LEGEND

SHEET ID
T-001