## RADIO TOWER NOTES (ALTERNATE BID)

1. 180' TOWER, ANCHOR BOLT KIT, SAFETY SLIMB SYSTEM, WAVEGUIDE LADDER, WAVEGUIDE HARDWARE, REBAR KIT FOR FOUNDATION, NO GRIDGE OUTDOOR CABLE MANAGEMENT, GROUNDING SUPPLIES, FOUNDATION DESIGN ONLY, WALL/ROOF FEED-THROUGH PLATES, REPEATER ANTENNA, BASE ANTENNA, BEAM ANTENNA AND JUMPERS, 12-CHANNEL COMBINER, COAX CABLING, POLYPHASE SURGE PROTECTION, BUS BARS, ENTRANCE PANELS, UNINTERRUPTIBLE POWER SUPPLY AND EQUIPMENT RACKS SHALL BE FUNISHED AND INSTALLED BY OWNER APPROVED VENDOR: COMMERCIAL RADIO SERVICE INC., CONTACT: GARY DOTY, PHONE: (812) 235-8684, CELL: (812) 249-1631, EMAIL: gcdoty@commercialradioservice.net. OTHER VENDORS SHALL NOT BE ACCEPTABLE FOR THIS WORK UNLESS OTHERWISE PRE-APPROVED BY THE OWNER.

## GENERAL NOTES

A. REFER TO DRAWING E8.4, DETAIL #1 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.

B. ALL FIRE ALARM CONDUITS SHALL BE FACTORY PAINTED "RED". ALL PULL/JUNCTION BOX COVERS SHALL BE FACTORY PAINTED "RED".

C. CONTRACTOR SHALL FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHTS AND LOCATIONS FOR COMMUNICATION DEVICES WITH THE CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

D. FOR MUTOA BACKBOX AND IN-WALL SLEEVE DETAIL, SEE DETAIL #13 ON DRAWING E8.1.

E. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES. REFER TO SPECIFICATION SECTION 078443 "JOINT FIRESTOPPING" FOR DETAILED FIRESTOP REQUIREMENTS.

F. REFER TO SECURITY DRAWING #SE SERIES, AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL SECURITY SYSTEM REQUIREMENTS. PROVIDE BOXES, RACEWAYS, CABLING, SUPPORTS AND ASSOCIATED ITEMS AS NECESSARY FOR A COMPLETE AND FUNCTIONAL SECURITY SYSTEM.

G. WAP LOCATIONS AND QUANTITY SHOWN ARE SCHEMATIC ONLY. WAP VENDOR SHALL PROVIDE EXACT LOCATIONS AND QUANTITY OF WIRELESS ACCESS POINTS. REFER TO GENERAL NOTE #NN ON DRAWING E0.1 FOR ADDITIONAL INFORMATION.

H. SEAL ALL PENETRATIONS THRU PRECAST. REFER TO SPECIFICATION 079200 "JOINT SEALANTS" FOR DETAILED REQUIREMENTS FOR SEALANT(S).

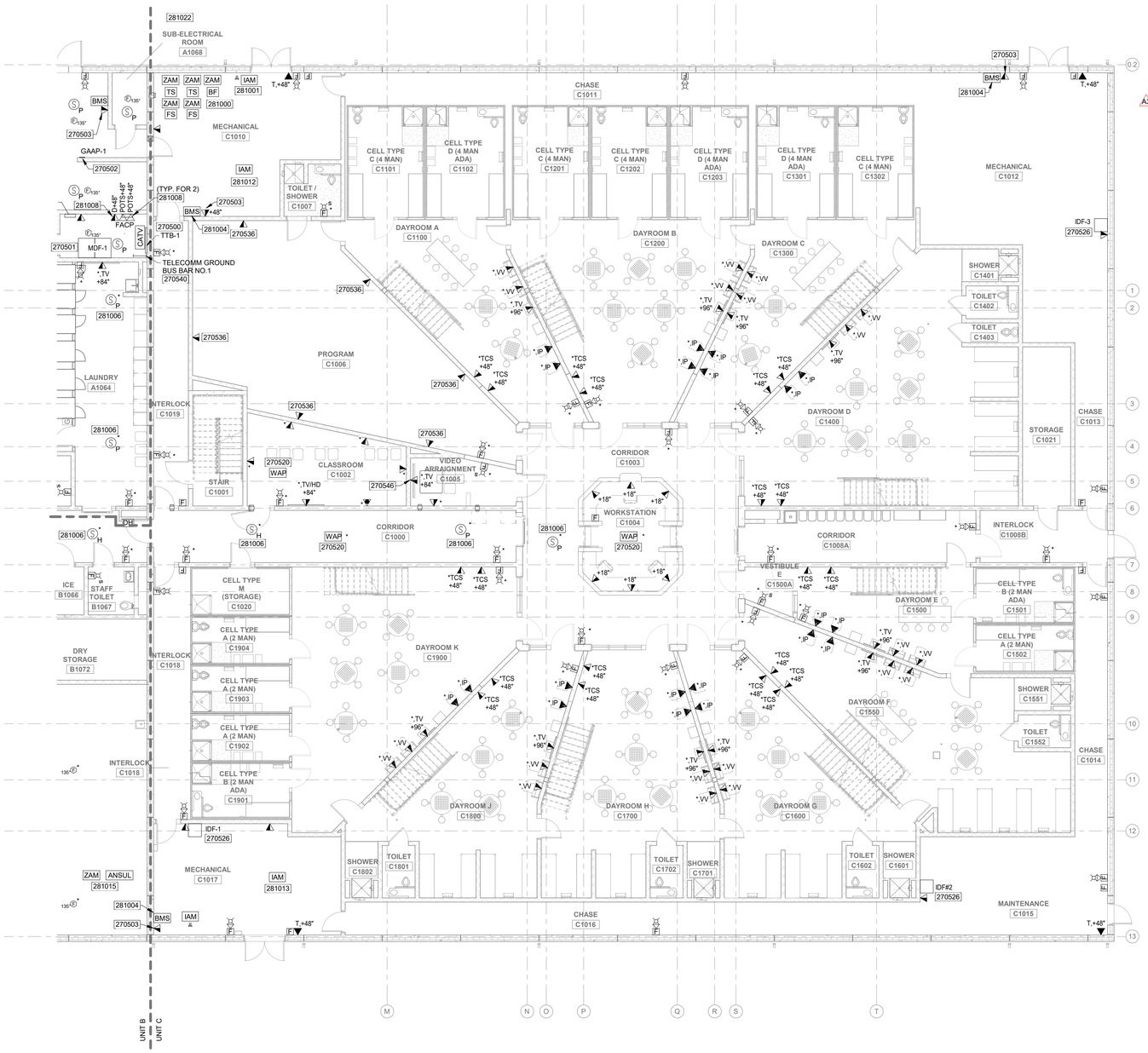
I. SEE DRAWING E6.3, DETAIL #1 FOR CATV DISTRIBUTION RISER.

J. DRY FIRE SUPPRESSION TO BE INSTALL IN ELECTRICAL AND IT ROOMS (REFER TO FIRE SUPPRESSION SERIES DRAWINGS). DRY FIRE SUPPRESSION ALARM/DETECTION CABINET(S) SHALL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL. CABINET(S) ARE NOT INDICATED ON THIS DRAWING (FIELD COORDINATE LOCATIONS PRIOR TO CONSTRUCTION) AND INCLUDE WITH SHOP DRAWING SUBMITTAL. PROVIDE 2#12, #12G. FROM EACH DRY SUPPRESSION ALARM/DETECTION CABINET BACK TO NEAREST AVAILABLE 20A/1P BREAKER (IN A LEGALLY REQUIRED PANELBOARD).

K. SMOKE DETECTORS IN MECHANICAL CHASES (LOCATED BEHIND CELLS) ARE NOT REQUIRED FOR SMOKE EVAC SYSTEM FOR CELLS/DAYROOMS. REFER TO MECHANICAL PLANS FOR SMOKE EVAC SYSTEM SEQUENCE OF CONTROL.

L. STRUCTURED CABLING OUTLET LOCATIONS ARE DIAGRAMMATIC. PRIOR TO CONSTRUCTION, FIELD COORDINATE AND VERIFY EXACT HEIGHTS AND LOCATIONS WITH SUBMITTALS FOR FURNITURE PLANS, CASINETRY PLANS, ETC.

M. REFER TO SPECIFICATION 012300 FOR ALTERNATE BID INFORMATION.




1 **FIRST FLOOR SYSTEMS PLAN - UNIT C**
SCALE: 1/8" = 1'-0"

## KEYNOTES 270XXX 281XXX

270500 TELEPHONE TERMINAL BOARD. FURNISH AND INSTALL A 4'-0"W X 8'-0"H X 3/4" PLYWOOD BOARD. MOUNT BOTTOM OF BOARD 18" AFF. PAINT PLYWOOD BOARD WHITE ON BOTH SIDES WITH FIRE RESISTANT PAINT. BOARD SHALL BE USED TO ACCOMMODATE COMMUNICATION EQUIPMENT [I.E. FIBER OPTIC UTILITY DEMARCATION, (FIBER OPTIC PATCH PANEL), CABLE TV (UTILITY DEMARCATION, POTS TELEPHONE UTILITY DEMARCATION (110 BLOCK), ETC.]. PROVIDE 10-POINT GROUNDING TERMINAL STRIP ON BOARD AND BOND ALL COMMUNICATION EQUIPMENT PER NEC; USE #4 AWG COPPER GREEN INSULATED BONDING CABLE; REFER TO TELECOMMUNICATIONS GROUNDING DETAIL ON DRAWING E8.3, DETAIL #3.

270501 PROVIDE TWO (2) 30"W X 36"D X 84"H NETWORK CABINETS, EACH WITH 42RU (RACK UNITS), FOR MAIN DISTRIBUTION FRAME MDF-1 . PROVIDE CABINET ACCESSORIES (I.E. PATCH PANELS, POWER STRIPS, GROUNDING, RAILS, RACKS, LOUVERS)/FILTER(S), CABLE MANAGEMENT, FANS, SHELVING, ETC.) AS NOTED IN DIVISION 27 SPECIFICATIONS. ALSO REFER TO DETAIL 10 ON DRAWING E8.1. PROVIDE MINIMUM OF 36" OF WORKING CLEARANCE IN THE FRONT OF THE CABINET AND A MINIMUM OF 30" OF WORKING CLEARANCE FOR THE REMOVABLE SIDES OF THE CABINET (WHERE SPACE FOR REMOVABLE SIDES IS AVAILABLE). REAR ACCESS NOT REQUIRED. EXACT LAYOUT FOR EQUIPMENT IN THIS ROOM SHALL BE FIELD DETERMINED PRIOR TO CONSTRUCTION BASED UPON ACTUAL EQUIPMENT TO BE PROCURED; SUBMIT SCALED EQUIPMENT PLAN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION AND PROCUREMENT TO ENSURE ADEQUATE SPACE AND WORKING CLEARANCE IS PROVIDED. ANCHOR CABINET TO A CONCRETE HOUSEKEEPING PAD. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE HOUSEKEEPING PAD DETAIL.

270502 FLUSH MOUNT REMOTE GENERATOR ANNUNICATOR PANEL GAAP-1 IN WALL. MOUNT TOP OF PANEL 5'-0" AFF.

270503 PROVIDE DEDICATED TELEPHONE/DATA OUTLETS AT BMS PANEL (I.E. TELEPHONE FOR CONNECTION TO OUTSIDE 24/7/365 ALARM MONITORING SERVICE AND DATA FOR VPN CONNECTION TO OUTSIDE BMS VENDOR SUPPORT/TROUBLESHOOTING VIA INTRANET).

270520 CONTRACTOR SHALL FURNISH AND INSTALL POE WIRELESS ROUTER; PROVIDE WITH TWO (2) CAT 6A CONNECTIONS. REFER TO GENERAL NOTE 'MM' ON DRAWING E0.1 FOR DETAILED REQUIREMENTS; LOCATIONS AND MOUNTING INDICATED ARE DIAGRAMMATIC; REFER TO "MESHED WI-FI NETWORK SYSTEM" SHOP DRAWING SUBMITTAL FOR DETAILED LOCATIONS, HEIGHTS, AND MOUNTING REQUIREMENTS.

270526 WALL MOUNTED IT EQUIPMENT RACK, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. WALL MOUNT CABINET SHALL BE SUITABLE FOR TWENTY FOUR (24) RACK UNITS (RU). MOUNT TOP OF CABINET +6'-0" AFF.

270536 FURNISH AND INSTALL DEVICE IN CUSTOM FLUSH MOUNTED, LOCKABLE WALL CABINET. FOR CABINET DETAIL, SEE DRAWING E8.2, DETAIL #13.

270540 TELECOMM GROUND BUS BAR. MOUNT ON WALL WITH BOTTOM AT +6'-0" AFF. REFER TO TELECOMM GROUND BUS DETAIL #5 ON DRAWING E8.3.

270546 PROVIDE EXTENSION RING ON WIRING DEVICE BOX AS NEEDED DUE TO SOUND PADDING.

281000 FIRE ALARM CONTROL PANEL SHALL MONITOR THE FLOW SWITCH AND THE TAMPER SWITCH FOR EACH WET FIRE SUPPRESSION ZONE VIA A ZAM (ZONE ADDRESSABLE MODULE). REFER TO 'FP' SERIES DRAWINGS FOR QUANTITY AND LOCATION OF FIRE SUPPRESSION ZONES.

281001 PROVIDE INTERMEDIATE ADDRESSABLE MODULE (IAM) AT SOLENOID VALVE FOR EMERGENCY GAS SHUT-OFF TO WATER HEATERS AND BOILERS. FIRE ALARM CONTROL PANEL SHALL OPEN VALVE UPON FIRE ALARM. REFER TO DRAWING P2.8 FOR EMERGENCY GAS SHUT-OFF SOLENOID VALVE LOCATION AND DETAILS. COORDINATE EXACT CONTROL REQUIREMENTS WITH MC PRIOR TO CONSTRUCTION.

281004 CONNECT BUILDING MANAGEMENT SYSTEM (BMS) PANEL BACK TO THE FIRE ALARM CONTROL PANEL (FACP) VIA COMMUNICATION WIRING TYPE (I.E. MODBUS OR DISCRETE ALARMS) AS REQUIRED BY FACP VENDOR AND BMS VENDOR; ROUTE COMMUNICATION WIRING IN 1"C MINIMUM. COMMUNICATION WIRING SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. FIELD COORDINATE WITH FACP VENDOR AND BMS VENDOR PRIOR TO CONSTRUCTION.

281006 REFER TO SMOKE DETECTOR DETENTION COVER DETAIL #3, DRAWING E8.4.

281008 PROVIDE ONE (1) DATA OUTLET AT FIRE ALARM CONTROL PANEL FOR INTRANET/INTERNET CONNECTION FOR VPN REMOTE WEB (CLOUD) BASED ACCESS FOR PUSH NOTIFICATIONS OF ALARMS TO REMOTE USERS (I.E. MAINTENANCE PERSONNEL LAPTIONS, TABLETS, MOBILE PHONES, ETC.). ALSO CLOUD BASED SOFTWARE IS AVAILABLE BY MANUFACTUERER FOR REAL-TIME REMOTE MONITORING/PINGING/TROUBLESHOOTING OF FIRE ALARM CONTROL PANEL FROM REMOTE USERS (I.E. SERIVCE TECHNICIAN LAPTION, MAINTENANCE PERSONNEL LAPTOP, ETC.)

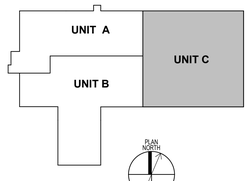
281012 PROVIDE INTERMEDIATE ADDRESSABLE MODULE (IAM) AT SOLENOID VALVE FOR EMERGENCY GAS SHUT-OFF TO THE GROUP OF WATER HEATER. FIRE ALARM CONTROL PANEL SHALL OPEN VALVE UPON FIRE DETECTION ALARM. REFER TO DRAWING PLUMBING DRAWINGS FOR EMERGENCY GAS SHUT-OFF LOCATION AND SPECIFICATION 221723 DETAILS. COORDINATE EXACT CONTROL REQUIREMENTS WITH MC PRIOR TO CONSTRUCTION.

281013 PROVIDE INTERMEDIATE ADDRESSABLE MODULE (IAM) AT SOLENOID VALVE FOR EMERGENCY GAS SHUT-OFF TO THE GROUP OF BOILERS. FIRE ALARM CONTROL PANEL SHALL OPEN VALVE UPON FIRE DETECTION ALARM. REFER TO DRAWING PLUMBING DRAWINGS FOR EMERGENCY GAS SHUT-OFF LOCATION AND SPECIFICATION 221723 DETAILS. COORDINATE EXACT CONTROL REQUIREMENTS WITH MC PRIOR TO CONSTRUCTION.

281015 ANSUL FIRE SUPPRESSION SYSTEM (LOCATED AT KITCHEN HOOD) FURNISHED BY KITCHEN EQUIPMENT VENDOR AND WIRED BY CONTRACTOR. FOLLOW MANUFACTURER WIRING INSTRUCTIONS AND INTERLOCK WITH KITCHEN MAKE-UP AIR FAN AND HOOD EXHAUST FAN TO SHUT DOWN UPON ACTIVATION. FIRE ALARM CONTROL PANEL SHALL MONITOR ANSUL ACTIVATION (VIA ZAM) AS INDICATED.

281022 POST INDICATOR VALVE (P.I.V.) REFER TO 'C' SERIES DRAWINGS FOR EXACT LOCATION. FURNISH AND INSTALL 3/4"C. BETWEEN P.I.V. AND MECHANICAL/ELECTRICAL ROOM #A1066 FOR FIRE ALARM CONNECTION BETWEEN P.I.V. AND FIRE ALARM CONTROL PANEL (FACP). PROVIDE CABLES AS REQUIRED.

## KEYPLAN





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02-16-2022
TIMOTHY K. FOUGHT
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STATE OF INDIANA
PROFESSIONAL ENGINEER

| NO. | REVISION | DATE |
|---|---|---|
| A2 | ADDENDUM 2 | 02/02/22 |
| A3 | ADDENDUM 3 | 02/16/22 |

DRAWN: SSB
DESIGNED: SSB
APPROVE: TKF
DATE: DECEMBER 20, 2021
CHK'D: TKF

PROJECT NUMBER
2063-1048-90

# SULLIVAN COUNTY SHERIFF'S OFFICE AND CORRECTIONAL FACILITY

2357 NORTH SECTION STREET SULLIVAN, INDIANA 47882

FIRST FLOOR SYSTEMS PLAN - UNIT C

DRAWING NUMBER

E4.1C

ELECTRICAL

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