TECHNOLOGY SYSTEMS GENERAL NOTES, ABBREVIATIONS AND SYMBOLS LEGEND

GENERAL NOTES

1. PRODUCTS SHALL BE OF MATERIALS THAT ARE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
2. WORKING CLEARANCES AROUND EQUIPMENT, RACKS AND CABINETS SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE ARTICLE 110 AND OSHA. COORDINATE INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.
3. IF AN OUTLET BOX IS REQUIRED TO BE LOCATED IN AN ASSEMBLY OR PARTITION RATED AS "FIRE/SMOKE" OR "SMOKE" OR IDENTIFIED AS SUCH, THEN ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
   A. THE OUTLET BOX SHALL BE METALLIC.
   B. THE OUTLET BOX OPENINGS SHALL OCCUR ONLY ON ONE SIDE OF THE FRAMING SPACE.
   C. THE OUTLET BOX OPENINGS SHALL NOT EXCEED 16 SQUARE INCHES.
   D. ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE WALL BOARD MATERIAL SHALL BE COMPLETELY SEALED WITH APPROVED MATERIALS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS FOR THE PROJECT.
   E. PROVIDE A SUPPLEMENTAL BARRIER AROUND OUTLETS LARGER THAN 16 INCHES SO THAT THE ORIGINAL RATING OF THE PENETRATION IS MAINTAINED.
   F. THE TOTAL AGGREGATE SURFACE AREA OF THE OUTLET BOX SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
   G. THE OUTLET BOX SHALL BE SEPARATED FROM OPENINGS ON THE OPPOSITE SIDE OF THE RATED PARTITION BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
   H. THE OUTLET BOX SHALL BE SECURELY FASTENED TO A PARTITION FRAMING MEMBER BY MEANS OF AN APPROVED ATTACHMENT METHOD.
   I. OPENINGS CUT INTO THE WALL BOARD MATERIAL SHALL NOT EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
4. LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT EQUIPMENT LOCATION AND CONNECTION REQUIREMENTS WITH THE OWNER, ARCHITECT, PROJECT GC AND APPROPRIATE TRADE PRIOR TO INSTALLATION.
5. FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE COMPLETED PRIOR TO ANY ROUGH-IN. NOTIFY ENGINEER OF ANY DISCREPANCY.
6. CONTRACTOR TO PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT WHERE INDICATED ON THE PLAN DRAWINGS.
7. PRIOR TO ROUGH-IN AND INSTALLATION OF ANY FLOOR MOUNTED DEVICE, VERIFY LOCATION WITH OWNER AND ARCHITECT.
8. VERIFY AND COORDINATE THE LOCATION OF REQUIRED DIVISION 27 AND 28 DEVICES WITH OTHER TRADE DRAWINGS AND OWNER PROVIDED EQUIPMENT.
9. ALL RACEWAY SYSTEMS INCLUDING CONDUITS, PULL STRINGS AND BACK BOXES, TO SUPPORT THE INSTALLATION OF DIVISION 27 AND 28 EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTRACTOR TO PROVIDE COORDINATION FOR THE INSTALLATION OF THIS RACEWAY SYSTEM WITH THE ELECTRICAL CONTRACTOR.
10. ELECTRICAL CONTRACTOR TO PROVIDE ALL SLEEVES AS REQUIRED FOR ALL LOW VOLTAGE CABLE PATHWAYS. RESTORE THE FIRE RATING OF THE SURFACE.
11. EACH TECHNOLOGY SYSTEMS OUTLET LOCATION SHOWN SHALL HAVE A DOUBLE GANG OUTLET BOX 4-11/16" X 4-11/16" X 2-3/4" WITH A SINGLE GANG PLASTER RING AND (1) ONE INCH CONDUIT, UNLESS OTHERWISE NOTED, STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING. WORK BY ELECTRICAL CONTRACTOR PER PLANS AND SPECIFICATIONS.
12. EACH TECHNOLOGY SYSTEMS OUTLET LOCATION SHOWN SHALL HAVE A CONDUIT WITH PULL STRING, STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING OR TO AN ACCESSIBLE CABLE TRAY WHERE PROVIDED.
13. EACH TECHNOLOGY FLOOR BOX MOUNTED ON THE FIRST FLOOR WITH A VOICE/DATA OUTLET SHALL HAVE A DOUBLE GANG SPACE WITHIN THE FLOOR BOX AND (1) ONE INCH CONDUIT CONCEALED IN SLAB FROM THE OUTLET TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING. WORK BY ELECTRICAL CONTRACTOR PER PLANS AND SPECIFICATIONS.
14. ALL BONDING AND GROUNDING ELEMENTS UTILIZED FOR THE STRUCTURE CABLING SYSTEM SHALL BE IN COMPLIANCE WITH PLANS AND SPECIFICATIONS.
15. CABLE WITHIN/UNDER SLAB ON GRADE USE OSP GEL-FILLED CABLES.
16. ALL MATERIALS AND EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW AND CARRY A ONE (1) YEAR MANUFACTURE'S WARRANTY. WARRANTY SHALL START ONE (1) DAY AFTER OWNERS ACCEPTANCE OF THE PROJECT.
17. CONTRACTOR TO PROVIDE AND INSTALL FIRE-STOPPING IN ALL CONDUITS PENETRATING RATED WALLS AFTER CABLING IS INSTALLED AND PROVIDE PHOTOGRAPHIC EVIDENCE OF COMPLIANCE WITH CODE, PLANS AND SPECIFICATIONS.
18. ROUTE CABLING FOR EACH TECHNOLOGY SYSTEM BACK TO LOCAL HEAD-END TERMINATION BOARD OR CABINET AS SHOWN ON THE PLANS AND SPECIFICATIONS.
19. PROVIDE AND INSTALL TECHNOLOGY SYSTEMS CABLE/WIRING AS RECOMMENDED BY THE MANUFACTURER, APPLICABLE CODES AND STANDARDS, UNLESS OTHERWISE INDICATED ON DRAWINGS OR SPECIFICATIONS. WHERE CONFLICT EXISTS, THE LARGER SIZE SHALL BE USED.
20. TECHNOLOGY SYSTEMS SHALL BE PROVIDED WITH THE FOLLOWING COLOR CODE FOR CABLING, PATCH CORDS, CONDUITS, AND JUNCTION BOX COVERS WHERE POSSIBLE.

A.	DATA SYSTEM	PURPLE
B.	VOICE SYSTEM	GOLD
C.	AUDIO VISUAL SYSTEM	BLACK OR YELLOW
D.	INTERCOM SYSTEM	GRAY
E.	INTRUSION DETECTION	WHITE
F.	SECURITY CCTV SYSTEM	GREEN
G.	ACCESS CONTROL SYSTEM	BLUE
H.	FIRE ALARM SYSTEM	RED
L.	BUILDING AUTOMATION SYSTEM	BROWN

21. TECHNOLOGY CABLES SHALL BE GROUPED IN BUNDLES OF 40 CABLES OR LESS.
22. TO AVOID EMI PROVIDE CLEARANCES OF THE FOLLOWING MINIMUM DISTANCES;
   A. 4" FROM MOTORS AND TRANSFORMERS
   B. 1' FROM ELECTRICAL CONDUITS USED FOR POWER DISTRIBUTION.
   C. 1' FROM FLUORESCENT LIGHTING FIXTURES
23. TECHNOLOGY PATHWAYS SHALL CROSS FLUORESCENT FIXTURES AND POWER CONDUITS PERPENDICULARLY WITH PROPER SEPARATION.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COORDINATION OF ALL WORK AND EQUIPMENT IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS FOR A COMPLETE TURNKEY SOLUTION OF MULTIPLE, FULLY FUNCTIONAL TECHNOLOGY SYSTEMS AS DESCRIBED WITHIN THIS PACKAGE. AS PART OF THE ORIGINAL BID CONTRACTOR TO CONTACT OCPS PURCHASING DEPARTMENT FOR A LIST OF CURRENTLY CERTIFIED OCPS TECHNOLOGY SYSTEM VENDORS AND INCLUDE THE OWNER'S VENDOR WORK, MATERIAL AND LABOR WITH HIS. (REFERENCE OFOVI) CONTRACTOR IS REQUIRED TO CONFIRM AND/OR UPDATE OFOVI EQUIPMENT WITH OCPS PURCHASING.

CONDUIT ROUTING GENERAL NOTES

1. ONLY EMT OR RIGID SHALL BE USED FOR ALL CONDUIT INSTALLATIONS ABOVE GRADE.
2. ALL BURIED CONDUITS SHALL BE A MINIMUM OF 36" BELOW GRADE. MAINTAIN A MINIMUM OF ONE (1) ONE FOOT (12 INCHES) OF SEPARATION BETWEEN POWER CONDUITS AND TECHNOLOGY SYSTEMS CONDUITS.
3. CONTRACTOR SHALL PROVIDE A MINIMUM 24" AGGREGATE BASE BELOW EACH MANHOLE. OR HAND HOLE.
4. ALL CONDUIT ENTRY PENETRATION POINTS INTO MUST BE PROPERLY SEALED AND PACKED TO PREVENT GASES OR RODENT INTRUSION.
5. ALL MANHOLES, VAULTS, PULL BOXES MUST HAVE TRAFFIC RATED COVERS MINIMUM 20,000 LBS RATED.
6. ALL CONDUITS SHALL BE PROVIDED WITH PULL STRINGS AND PLASTIC BUSHINGS ON THE ENDS.
7. ALL UNDERGROUND CONDUITS SHALL BE CLEANED USING A MANDREL AFTER INSTALLATION AND PRIOR TO SYSTEM TURN-OVER.
8. TECHNOLOGY SYSTEM PATHWAYS IN ACCESSIBLE CEILING SPACES MAY BE PROVIDED UTILIZING DEDICATED CABLE SUPPORTS RATED FOR THE RESPECTIVE CEILING SPACE, (PLENUM OR NON-PLENUM) AND INSTALLED PER APPLICABLE CODES AND STANDARDS. FOR NON-ACCESSABLE CEILING SPACES A CONTINUOUS PATHWAY, CONDUITS SHALL BE PROVIDED.
9. ALL PATHWAYS SHALL BE SIZED AS RECOMMENDED BY THE MANUFACTURER AND APPLICABLE CODES AND STANDARDS. NO PATHWAY CABLE FILL SHALL EXCEED 40% FILL.
10. FIRE ALARM, SECURITY, ACCESS CONTROL, CLOSED CIRCUIT VIDEO SURVEILLANCE, CABLING SHALL BE INSTALLED IN COLOR CODED CONDUITS AND JUNCTION BOXES, UNLESS OTHERWISE NOTED.
11. INTERIOR CONDUIT RUNS SHALL BE PROVIDED WITH PULL BOXES AT A MINIMUM OF EVERY (100') ONE HUNDRED FEET OR AFTER (2) TWO NINETY DEGREE BENDS OR AFTER A TOTAL OF (180) ONE HUNDRED AND EIGHTY DEGREES OF BENDS.
12. EXTERIOR CONDUIT RUNS SHALL BE PROVIDED WITH HAND HOLES AT A MINIMUM OF EVERY (3) THREE HUNDRED FEET OR AFTER (2) TWO NINETY DEGREE BENDS OR AFTER A TOTAL OF (180) ONE HUNDRED AND EIGHTY DEGREES OF BENDS.
13. BACKBONE RACEWAYS SHALL HAVE A MINIMUM SIZE OF 2" UON.
14. HORIZONTAL RACEWAYS SHAL;L HAVE A MINIMUM SIZE OF 3/4" UON.
15. SLEEVES SHALL BE INSTALLED ABOVE CEILINGS IN ALL WALLS, RATED OR NOT. MINIMUM SLEEVE SIZE IS 2" AND SHALL EXTEND A MINIMUM OF 2" ON EITHER SIDE OF WALL.. SLEEVES SHALL BE SIZED AND IN THE QUANTITIES TO SUPPORT THE NUMBER OF CABLES AND FILL IS NOT TO EXCEED 40%.
16. THE USE OF SURFACE MOUNTED RACEWAYS IN NEW CONSTRUCTION IS NOT ACCEPTABLE. ALL SURFACE MOUNTED RACEWAY INSTALLATION MUST BE APPROVED BY OWNER PRIOR TO INSTALLATION.
17. WHEN INSTALLED IN ACCESSIBLE CEILING SPACES, J-HOOKS SHALL BE INSTALLED TO CONFORM WITH BUILDING LINES AND BE SPACED NO MORE THEN 5' APART. PROVIDE (2) J-HOOKS AT 90 DEGREE CORNERS.
18. CABLE BUNDLES SHALL BE SECURED WITH VELCRO EVERY 2; AND SHALL ALSO BE SECURED TO TO J-HOOKS.
19. CABLE SAG BETWEEN J-HOOKS SHALL NOT EXCEED 2".
20. EACH TECHNOLOGY SYSTEM CABLING SHALL BE BUNDLED SEPARATELY AND SHALL HAVE SEPARATE SUPPORT BRACKETS.
21. WHERE EQUIPMENT, CABLE TERMINATIONS, PULL BOXES OR OTHER EQUIPMENT OR MATERIALS ARE INSTALLED ABOVE INACCESSIBLE CEILINGS OR BEHIND WALLS THE CONTRACTOR SHALL PROVIDE AND INSTALL LOCKING ACCESS PANELS. ALL ACCESS PANELS SHALL BE KEYED ALIKE.

ABBREVIATIONS

AC	ACCESS CONTROL (SECURITY)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATED SYSTEMS
BFG	BELOW FINISHED GRADE
BICSI	BUILDING INDUSTRY CONSULTANT SERVICES INTERNATIONAL
BLDG	BUILDING
C	CONDUIT
CA	CARD ACCESS (SECURITY)
CAB	CABINET
CAT	CATEGORY
CATV	COMMUNITY ACCESS TELEVISION
CCTV	CLOSED CIRCUIT TV (SECURITY)
CKT	CIRCUIT
CU	COPPER
DEMARK	SERVICE PROVIDER TERMINATION
DN	DOWN
ER	EQUIPMENT ROOM
EXT	INTERNAL OUTLET FOR EXTERNAL DEVICE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FOB	FURNISHED BY OTHERS
FT	FEET
GND	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
HC	HORIZONTAL CROSS CONNECT
HDMI	HIGH DEFINITION MEDIA INTERFACE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
KVA	KILOVOLT – AMPERES
KW	KILOWATTS
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MISC	MISCELLANEOUS
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OC	ON CENTER LINE
OF	OWNER FURNISHED
OFOI	OWNER INSTALLED
OFCI	CONTRACTOR INSTALLED
OFOVI	OWNER'S VENDOR INSTALLED
PDS	PREMISE DISTRIBUTION SYSTEM
POS	POINT OF SALE
PTZ	PAN, TILT ZOOM CAMERA
PVC	POLYVINYL CHLORIDE
R	RECESSED
RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RGB	15 PIN AV CONNECTOR
RK	RACK
SATV	SATELLITE TV SOURCE
SURF	SURFACE
SVGA	15 PIN AV CONNECTOR
TGB	TELCOM GND BUS BAR
TMGB	TELCOM MAIN GND BUS BAR
TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
TV	TELEVISION
UNIV	UNIVERSAL
UON	UNLESS OTHERWISE NOTED
USB	UNIVERSAL SERIAL BUS
USC	UNDER SEPERATE CONTRACT
UTP	UNIFORM TWISTED PAIRS
VGA	15 PIN AV CONNECTOR
W	WALL MOUNTED
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF

ADDITIONAL ABBREVIATIONS MAY BE USED AND IDENTIFIED IN THE SPECIFICATIONS OR DRAWINGS.

SYMBOLS LEGEND

- TELEPHONE WALL MOUNTED 48" AFF, 1 UTP CABLE
- RED "RED" EMERGENCY POTS TELEPHONE WALL MOUNTED 48" AFF, 1 UTP CABLE
- TECHNOLOGY OUTLET, FLUSH WALL MTD. 18" OC AFF UNLESS OTHERWISE NOTED
  NOTE; ALL FACEPLATES SHALL HAVE 4 SPACES FOR CABLE MODULES, ALL OUTLETS INSERTS IS KEYSTONE TYPE.
  - (#) PROVIDE COVERPLATE WITH NUMBER OF PORTS AS SHOWN.
  - (AC) MOUNT 6" ABOVE COUNTER OR BACKSPLASH
  - (S) SURFACE WALL MOUNTED 18" AFF
  - (DS) DIGITAL SIGNAGE, PROVID (1) UTP YELLOW CABLE MOUNT AT 84"AFF.
  - (POS) POINT OF SALES OUTLET, (1) UTP YELLOW CABLE.
  - (RI) ROUGH-IN ONLY, FACEPLATE W/4 BLANKS (NO CABLES REQUIRED)
- TECHNOLOGY OUTLET, RECESSED FLOOR BOX (SEE DETAIL)
- TECHNOLOGY OUTLET, MOUNTED ABOVE CEILING (SEE DETAIL)
  • (C) FLUSH MOUNT IN CEILING
- WAP WIRELESS ACCESS POINT, 1 UTP CABLE, FLUSH MT IN CEILING OR OTHERWISE NOTED ON THE PLAN, SEE DETAIL (DEVICE OFOVI)
- TV PROVIDE RECESSED FSR WALL BOX FOR FLAT PANEL DISPLAY FLUSH MOUNT AT 72" AFF, PROVIDE 1 UTP CABLE, (DEVICE OFOVI). SEE NOTE #03 IN DRAWING ES502 FOR SAFARI MONTAGE DETAIL.
- SW UP AND DOWN SWITCH FOR MOTORIZED PROJECTOR SCREEN. (OFOVI)
- PROJ OVERHEAD PROJECTOR WITH 24" X 24" CEILING MOUNTING PLATE AND EXTENSION PIPE AND 1 UTP CABLE, (1) VGA/RGB. SEE DETAIL (DEVICE OFOVI)
- DIGITAL CCTV CAMERA LOCATION (1) UTP CABLE AND (1) 18/2 TWISTED SHIELDED CABLE. DEVICES ARE FIXED VIEW UON. (DEVICE OFOVI)
- (S)• CEILING MOUNTED SPEAKER WITH HOMERUN (1) UTP CAT 6 CABLE WITHOUT TERMINATION.
- S PAGING SPEAKER HORN WALL MOUNTED AT LEAST 7' ABOVE THE FINISHED FLOOR, WITH (1) UTP HOMERUN CABLE, REFER TO DETAIL 6 SHEET T5.2, (DEVICE OFOI)
- OUTDOOR WEATHERTIGHT SPEAKER/HORN WITH 16/2 HOMERUN WIRE, (CFCI)
- DUAL OUTDOOR WEATHERTIGHT SPEAKER/HORN RE-ENTRANT TRUMPETS FLUSH MOUNTED IN A VANDAL RESISTANT BOX WITH 16/2 HOMERUN WIRE, (CFCI)
- ES OUTDOOR WEATHERTIGHT SPEAKER FLUSH MOUNT WITH 16/2 HOMERUN WIRE (CFCI) CONTRACTOR TO PROVIDE BACKBOX 4X4 SQ EXTENSION RING FLUSH WITH EXTERIOR SURFACE TYPICAL. (SEE NOTE #09 IN DRAWING ES502 FOR SPEAKER ROUGH-IN DETAIL).
- M WALL MOUNTED MICROPHONE BALANCE AUDIO JACK, XLR STYLE, (1) XLR TYPE CABLE (3 CONDUCTOR PLUS SHIELD) TO HEADEND EQUIPMENT (OFOVI)
- (M) CHOIR MIC SUSPENDED FROM CEILING (1) XLR CABLE RUN TO HEADEND EQ. (CFCI)
- (IR) INFRARED DOME SENSOR CEILING MOUNTED FOR AUDIO ENHANCEMENT (CFOVI)
- ASSISTED HEARING SYSTEM ANTENNA, SEE DETAIL (CFCI)
- REMOTE WIRELESS MICROPHONE ANTENNA LOCATION, SEE DETAIL (CFCI)
- IC• INTERCOM SYSTEM CALL-IN SWITCH, 18/4 WIRE (CFCI)
  • (P) CALL-IN WITH PRIVACY SWITCH
  (H) HANDSET EITHER DESK OR WALL MOUNTED AS SHOWN ON FLOOR PLANS
  (WP) WEATHER-PROOF LOCKABLE CABINET WITH HANDSET AND EMERGENCY BUTTON
- AS ADMINISTRATIVE PHONE WITH LED SCREEN 18/4 WIRE, DESK MOUNT (CFCI)
- VIC VIDEO INTERCOM WEATHER-PROOF SPEAKER (REFER TO SPECIFICATIONS) PROVIDE (1) CAT6 CABLE, ACCESS CONTROL CABLE.
- V INTERCOM SYSTEM SPEAKER VOLUME ZONE/ROOM CONTROL, MOUNT AT 42" AFF OR AT LEVEL OF OTHER DEVICES, PROVIDE 16/2 WIRE (CFCI)
- (ES) ELECTRIC DOOR LOCK. COORDINATE WITH DOOR HARDWARE SCHEDULE.
- DC DOOR CONTROLLER – MOUNT 4 SQ EXTRA DEEP JUNCTION BOX CENTERED ABOVE DOOR. PROVIDE 1" CONDUIT TO STB WITH 22/10 AND 18/4. PROVIDE CONDUIT AND CABLING FOR ACCESS TO CARD READER, DOOR CONTACT, REQUEST TO EXIT AND STRIKE POWER. PROVIDE DTDP CONTACTS FOR USE BY INTRUSION DETECTION SYSTEM. SEE DETAIL (OFOVI)
- CR CARD READER – PROVIDE AND INSTALL 4 SQ EXTRA DEEP BACKBOX WITH CONDUIT TO DOOR CONTROL BOX. PROVIDE (3) PAIR #22 AWG. (OFOVI)
- D DOOR CONTACT – PROVIDE AND INSTALL DOOR CONTACT DEVICE WITH CONDUIT TO DOOR CONTROL BOX. PROVIDE (1) PAIR #22 AWG. (DEVICE CFOVI)
- DR DOOR RELEASE OVERRIDE PUSHBUTTON – PROVIDE AND INSTALL DOUBLE GANG BACK-BOX, 3/4" EMT AND 18/4 TO TERMINAL CABINET. (OFOVI)
- DB DRUSS PUSHBUTTON PROVIDE AND INSTALL (1) 4" SQUARE BOX WITH 1 GANG P-RING, STAINLESS STEEL PLATE WITH 1" GROMMET. (1) 1" CONDUIT TO ACCESSIBLE CEILING, 16/4 CONDUCTOR CABLE.
- KP SECURITY KEYPAD – PROVIDE AND INSTALL 4 SQ EXTRA DEEP BACK-BOX, (1) CAT 6 AND (1) 16/2 TWISTED, SHIELDED TO TERMINAL CABINET. (DEVICE CFOVI)
- A AUDIO ALARM SENSOR – PROVIDE AND INSTALL SINGLE GANG BACK-BOX 12" BELOW CEILING HEIGHT W/ 3/4" EMT AND 22/4 TO TERMINAL CABINET. (DEVICE CFOVI)
- MD PASSIVE INFRARED MOTION DETECTOR – WALL MOUNT 12" BELOW CEILING. PROVIDE AND INSTALL SINGLE GANG BACK-BOX, 3/4" EMT AND 22/4 TO TERMINATION CABINET. (DEVICE CFOVI)
- (MD) PASSIVE INFRARED MOTION DETECTOR – CEILING MOUNT. 22/4 TO TERMINATION CABINET. (DEVICE CFOVI)
- LADDER OR CABLE TRAY AS SHOWN ON THE DRAWINGS
- TECHNOLOGY SYSTEM EQUIPMENT CABINET
- UTP CABLING TERMINATIONS RACK WITH VERTICAL CABLE MANAGEMENT
- TMGB TELECOMMUNICATIONS MAIN GROUNDING BUSS BAR
- SEEQ SOUND ENHANCEMENT SYSTEM EQUIPMENT, RACK MOUNT, SEE DETAIL (CFOVI)
- PAEQ AUDIO SOUND SYSTEM EQUIPMENT, RACK MOUNT, SEE DETAIL (CFOVI)
- AVEQ AUDIO VISUAL SYSTEM EQUIPMENT, RACK MOUNT, SEE DETAIL (CFOVI)

KEY NOTES

(KEY NOTES APPLY TO ALL SHEETS BUT MAY NOT BE USED ON ALL SHEETS.)

1. PATHWAYS AND SLEEVES SHOWN ON DRAWINGS ARE DIAGRAMMATIC ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE REQUIRED PATHWAYS BASED ON THE ACTUAL CABLE COUNTS. SEE SPECIFICATIONS FOR 40% CABLE FILL AND ADDITIONAL REQUIREMENTS. PROVIDE HILTI FIRESTOP "CFS-PL" PLUGS IN ALL SLEEVES AND PATHWAYS AFTER CABLES ARE INSTALLED.

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RECORD SET

LAKE COUNTY ANIMAL SHELTER
TAVARES, LAKE COUNTY, FL

DATE	10-29-2019
DRAWN	
CHECKED	
REVISIONS	

1717 PROJECT

SHEET NO. T0.1

RECORD SET
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PRINT DATE:10/29/2019 2:20 PM SAVE DATE:1/16/2019 12:56 PM FILE LOCATION:\LES\PROJECT DATA\18-005\18029 - LAKE COUNTY ANIMAL SHELTER\DWGS\18029T01.DWG

HANDHOLE
HH-1

PLACE HAND HOLE
IN PUBLIC EASEMENT FOR SYSTEMS SERVICE
PROVIDERS ACCESS TO SITE. COORDINATE
EXACT LOCATION WITH UTILITY COMPANIES
PRIOR TO BID AND INSTALLATION.

(4) 4" UNDERGROUND CONDUITS
WITH (3) 1-1/4" INNER DUCT
FOR EACH

HANDHOLE
HH-4

MONUMENTAL FUTURE SIGN
(1) 2" UNDERGROUND CONDUITS
WITH (3) 1-1/4" INNER DUCT
FOR EACH

HANDHOLE
CR

(1) 1 1/4" CONDUIT FOR
LOW VOLTAGE

D-GANG PULL BOX -
(1) 3/4" CONDUIT FOR
LOW VOLTAGE

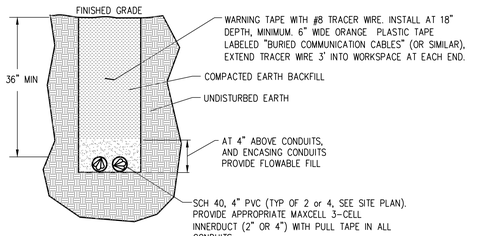
MDF
106

(1) 2" CONDUIT TO
THE BARN

(3) 4" UNDERGROUND CONDUITS
WITH (3) 1-1/4" INNER DUCT FOR
EACH

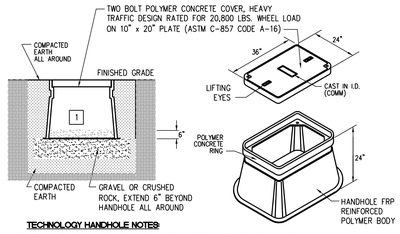
HANDHOLE
HH-3

HANDHOLE
HH-2



02 CONDUIT TRENCHING/BOREING DETAIL

NOT TO SCALE

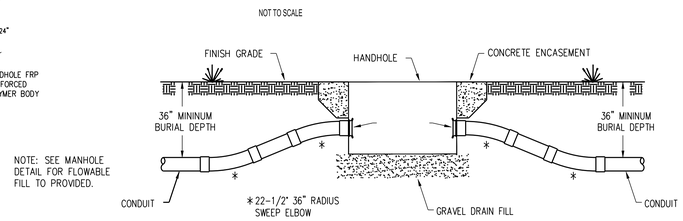


TECHNOLOGY HANDHOLE NOTES:

1. HANDHOLE WITH COVER (LOGO=COMM) SHALL BE QUAZITE OR EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THESE REQUIREMENTS.
2. TERMINATE CONDUITS ENTERING HANDHOLE WITH END BELL (CARLON E997). CONSTRUCT CONDUIT RISE TO ENTER BOX FROM SIDE WITH 22-1/2° SWEEP ELBOWS. SEE "TYPICAL CONDUIT ENTRY DETAIL - COMMUNICATIONS HANDHOLE".
3. PROTECT ALL CABLES INSIDE HANDHOLE WITH TEFLON (OR WEATHER RESISTANT NYLON) SPIRAL WRAPPING, PANDUIT TxxT SERIES, DIAMETER AS REQUIRED. INSTALL SPIRAL WRAPPING BUTTED (NO GAPS). EXTEND INTO CONDUIT 1" BOTH ENDS.

01 TECHNOLOGY HANDHOLE (HH)

NOT TO SCALE



NOTE: SEE MANHOLE DETAIL FOR FLOWABLE FILL TO PROVIDED.

03 TYPICAL COMMUNICATIONS HANDHOLE (HH)

NOT TO SCALE

GENERAL NOTES:

1. REFER TO SYMBOL LEGEND ON SHEET E001.
2. REFER TO BOOK SPECIFICATIONS.
3. ALL PATHWAYS SHOWN ARE CONDUITS WITH 12" RADIUS ELBOWS WHERE REQUIRED, UNLESS OTHERWISE NOTED. PLASTIC BUSHINGS AND PULL STRINGS ARE REQUIRED IN ALL CONDUITS.
4. STUB ALL CONDUITS 4" BEYOND WALLS OR FLOORS THAT THEY ARE PENETRATING AT A MINIMUM. INSTALL A PLASTIC INSULATING BUSHING. SEAL CONDUITS AFTER INSTALLATION OF CABLES. SEAL ALL UNUSED CONDUITS WITH REMOVABLE PLUG.
5. CONDUIT PATHWAY SHALL HAVE NO MORE THEN 270 DEGREES OF BEND IN A 250' RUN WITHOUT A HAND HOLE INSTALLED.
6. COORDINATE EXACT LOCATIONS FOR TECHNOLOGY DEVICES WITH OTHER DIVISION 25, 26, 27 AND 28 CONTRACTORS AND WITH THE GENERAL CONTRACTOR. ENSURE PROPER CLEARANCES PER NEC AND SPECIFICATIONS.
7. COORDINATE EXACT LOCATIONS FOR CONDUITS AND PENETRATIONS WITH GENERAL CONTRACTOR, ARCHITECT AND PROJECT MANAGER.
8. ROUTE CONDUITS FROM SERVICE PROVIDERS UTILITY EASEMENT HANDHOLES TO BUILDING PENETRATIONS PER DRAWINGS AND SPECS.

KEYED NOTES:

(1) CONTRACTOR TO INSTALL NEW TELECOMMUNICATIONS HANDHOLE (HH-X) SYSTEM PER PLANS, DETAILS AND MANUFACTURES RECOMMENDATION. ALL CONDUITS SHALL HAVE MAXCELL INNERDUCT AND PULL STRINGS INSTALLED PER PLANS AND SPECS.

1 SITE / ROOF PLAN - TECHNOLOGY

SCALE: 1/16" = 1'-0"

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RECORD SET

LAKE COUNTY ANIMAL SHELTER
TAVARES, LAKE COUNTY, FL

DATE
10-29-2019
PERMIT/ISSUE
CHECKED
REVISIONS

1717
PROJECT

SHEET NO
T1.1

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LICENSE NO. 66100
FL REG. NO.: PE56402

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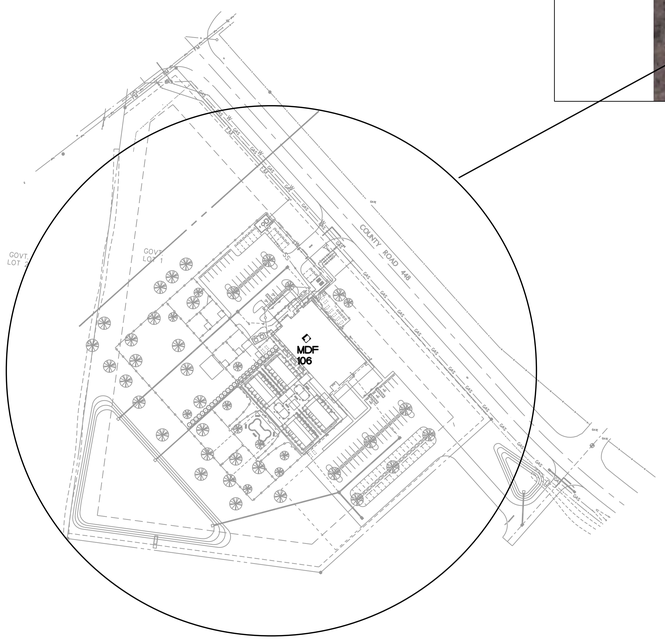
GENERAL NOTES:

1. CONTRACTOR TO VISIT AND INVESTIGATE THE EXACT FIBER OPTIC DISTANCE BEFORE PRICING.
2. REFER TO SYMBOL LEGEND ON SHEET T001.
3. REFER TO BOOK SPECIFICATIONS.
4. ALL PATHWAYS SHOWN ARE CONDUITS WITH 12" RADIUS ELBOWS WHERE REQUIRED, UNLESS OTHERWISE NOTED. PLASTIC BUSHINGS AND PULL STRINGS ARE REQUIRED IN ALL CONDUITS.
5. STUB ALL CONDUITS 4" BEYOND WALLS OR FLOORS THAT THEY ARE PENETRATING AT A MINIMUM. INSTALL A PLASTIC INSULATING BUSHING. SEAL CONDUITS AFTER INSTALLATION OF CABLES. SEAL ALL UNUSED CONDUITS WITH REMOVABLE PLUG.
6. CONDUIT PATHWAY SHALL HAVE NO MORE THEN 270 DEGREES OF BEND IN A 250' RUN WITHOUT A HAND HOLE INSTALLED.
7. COORDINATE EXACT LOCATIONS FOR TECHNOLOGY DEVICES WITH OTHER DIVISION 25, 26, 27 AND 28 CONTRACTORS AND WITH THE GENERAL CONTRACTOR. ENSURE PROPER CLEARANCES PER NEC AND SPECIFICATIONS.
8. COORDINATE EXACT LOCATIONS FOR CONDUITS AND PENETRATIONS WITH GENERAL CONTRACTOR, ARCHITECT, PROJECT MANAGER AND LAKE COUNTY IT MANGER (MR: DOUGLAS WOODYARD, TELE: 352-343-9897, EMAIL: TELECOM@LAKECOUNTYFL.GOV)
9. ROUTE CONDUITS FROM SERVICE PROVIDERS UTILITY EASEMENT HANDHOLES TO BUILDING PENETRATIONS PER DRAWINGS AND SPECS.

KEYED NOTES:

(1) CONTRACTOR TO INSTALL AND TERMINATE A NEW FIBER OPTIC 6 STRAND SINGLE MODE IN ONE DIRECTION TO TAVARES FIRE STATION ON LANE PARK CUTOFF AND ANOTHER FIBER OPTIC 24 STAND SINGLE MODE TO THE PUBLIC WORKS POLE BARN. ALL CONDUITS SHALL HAVE MAXCELL INNERDUCT AND PULL STRINGS INSTALLED PER PLANS AND SPECS.





1 SITE / ROOF PLAN - TECHNOLOGY
SCALE: 1/16" = 1'-0"

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DETAIL KEYNOTES:

1. INSTALL DATA OUTLET IN CASEWORK AND MILLWORK. COORDINATION IN THE FIELD WITH THE GENERAL CONTRACTOR, THE ELECTRICAL CONTRACTOR, THE ARCHITECT AND THE OWNER'S PROJECT MANAGER IS CRITICAL, AND SHALL BE COMPLETED PRIOR TO THE UNDERGROUND CONDUIT ROUGH-IN AND POURING OF THE FLOOR SLAB. PLACE DEVICE BOX AT EACH CO LOCATION IN MILLWORK AND MOUNT FOR FLUSH FACEPLATE INSTALLATION WITH EASY ACCESS FOR OWNER TO CONNECT DATA AND TELEPHONE DEVICES. RUN CABLE FROM EACH DEVICE BOX TO FLOOR STUB-UP IN 1 1/4" FLEXIBLE CONDUIT CONCEALED IN MILLWORK. AT FLOOR STUB-UP PROVIDE A 4"x4"x2+1/8" SLACK CABLE BOX WITH BOTTOM AT 4" A.F.F., THEN RUN 1 1/4" SCHEDULE 40 PVC HOMERUN CONDUIT UNDERFLOOR TO NEAREST WALL, TURN UP CONCEALED IN WALL TO 4" ABOVE FLOOR, CONVERT TO EMT, THEN RUN UP CONCEALED IN WALL AND OVERHEAD ABOVE CEILING AND CONTINUE TO CABLE TRAY OR SERVING CLOSET. REFER TO DETAIL ON SHEET T4.1.
2. ALL CABLE RELATED TO THE EDUCATION/ TRAINING ROOM SHALL BE TERMINATED ON THE SAME PATCH PANEL IN THE IT ROOM.

1 FLOOR PLAN - TECHNOLOGY
SCALE: 1/8" = 1'-0"

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TAVARES, LAKE COUNTY, FL

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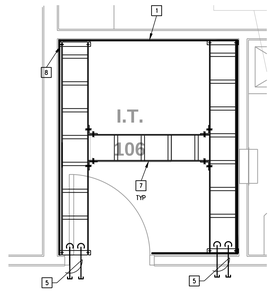
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PROJECT

SHEET NO.
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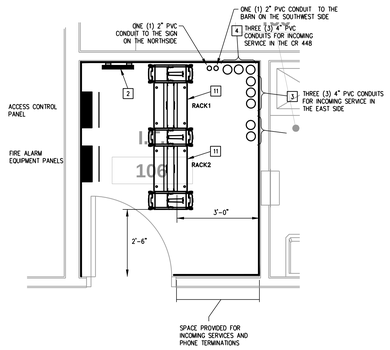
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1 ENLARGED FLOOR PLAN - MDF 106
1/2" = 1'-0"



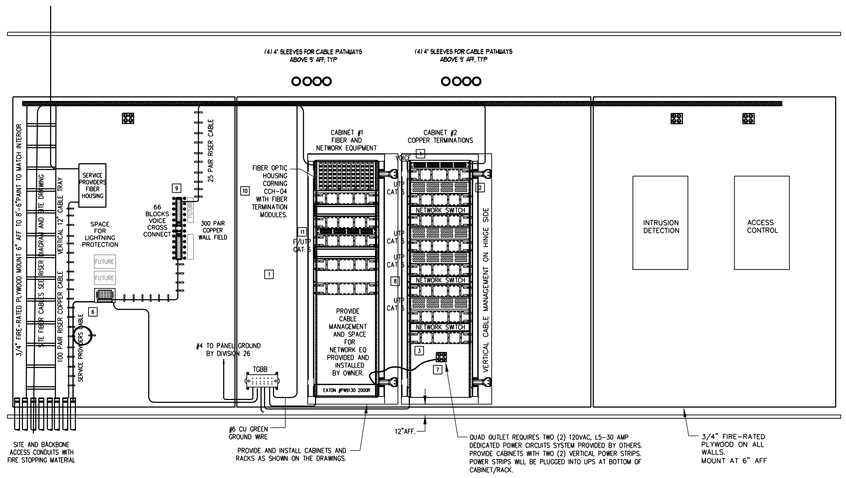
2 ENLARGED FLOOR PLAN - MDF 106
1/2" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL ADHERE TO ALL INDUSTRY STANDARDS AND LOCAL BUILD REQUIREMENTS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS AND LAKE COUNTY DESIGN CRITERIA.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
3. CONTRACTOR TO PROVIDE AND INSTALL ALL EQUIPMENT, RACKS AND CABINETS IDENTIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
4. CONTRACTOR TO GROUND ALL CABLE TRAY, RACKS AND CABINETS AND BOLT ALL RACKS AND CABINETS TO THE FLOOR. SEE DETAIL SHEETS FOR ADDITIONAL REQUIREMENTS.
5. ALL ELECTRICAL POWER CONNECTION AND BUILDING GROUNDING SYSTEM BY DIVISION 26 CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT QUANTITIES OF PATCH PANELS AND CABLE MANAGEMENT PANELS REQUIRED FOR THE ENTIRE PROJECT TO FURNISH A COMPLETELY OPERATIONAL SYSTEM PER PLANS AND SPECIFICATIONS.
7. COORDINATE LABELING WITH LAKE COUNTY IT DEPARTMENT. PROVIDE ACCURATE LABELING AT TERMINATION RACKS, WORKSTATION FACEPLATES AND ON AS-BUILT DRAWINGS PER PLANS AND SPECS.
8. CONTRACTOR IS RESPONSIBLE FOR CORRECT QUANTITIES OF PATCH PANELS REQUIRED FOR EACH FLOOR FOR A COMPLETE INSTALLATION. APPROXIMATE PORT COUNTS FOR EACH MDF/IDF. CONTRACTOR SHALL NOT USE THESE N LIU OF ACTUAL COUNTS FROM DRAWINGS.

KEYNOTES [X]:

1. PLYWOOD BACKBOARD, 8'-0" HIGH X FULL LENGTH OF WALL, MOUNT WITH BOTTOM AT 6" ABOVE FINISH FLOOR. ROUGH-IN ALL ELECTRICAL OUTLETS IN BACKBOARD FOR FLUSH MOUNT INSTALLATION OF FACEPLATES. BACKBOARDS SHALL BE 3/4" THICK AC GRADE PLYWOOD. COUNTERSINK ALL SCREWS. PRIME WITH TWO COATS FIRE RETARDANT PRIMER, SANDING SMOOTH AFTER EACH COAT. FINISH WITH TWO COATS FIRE RETARDANT PAINT, COLOR LIGHT GREY, ON ALL SIX SIDES. FINAL SURFACE SHALL BE UNIFORMLY SMOOTH AND EVEN; TOUCH UP AT END OF PROJECT. CONTRACTOR SHALL ENSURE THAT POWER RECEPTACLES ARE PROPERLY LOCATED AND WITH FACEPLATES FLUSH ON FACE OF BACKBOARD. FOR ROUTING CABLES ON BACKBOARD, PROVIDE D-RINGS AT 12" ON CENTER. BUNDLE CABLES NEATLY WITH VELCRO, AND SEPARATE SYSTEMS.
2. GROUND BUS BAR, REFER TO DETAILS.
3. SCHEDULE 40 UNDERGROUND 4" CONDUITS FOR INCOMING SERVICE CABLES AS REQUIRED WITH SPARE AS REQUIRED, REFER TO SITE PLAN. TURN CONDUITS UP, SLEEVE AND SEAL FLOOR PENETRATIONS. TERMINATE CONDUITS AT 4" A.F.F. WITH A PLASTIC INSULATING BUSHING, UNLESS SPECIFIED OTHERWISE. PLUG UNUSED CONDUITS AND SLEEVE AROUND CABLES IN OTHERS. ROUTE CABLING UP WALL IN D-RINGS AT 12" O.C. PROVIDE THREE 3" MAXCELL INNTERDUCTS IN ALL THE 4" CONDUITS FOR ROUTING THE FIBER CABLING.
4. SCHEDULE 40 UNDERGROUND (4) 2" CONDUITS FOR FUTURE PORTABLE BUILDING, REFER TO SITE PLAN. TURN CONDUITS UP, SLEEVE AND SEAL FLOOR PENETRATIONS. TERMINATE CONDUITS AT 4" A.F.F. WITH A PLASTIC INSULATING BUSHING, UNLESS SPECIFIED OTHERWISE. PLUG UNUSED CONDUITS AND SLEEVE. PROVIDE THREE 3" MAXCELL INNTERDUCTS IN ONE OF THE 2" CONDUIT FOR ROUTING THE FIBER CABLING.
5. EMT 4" CONDUIT STUBS FOR HORIZONTAL WIRING FROM CABLE TRAY OR ACCESSIBLE CEILING TO CABLE RUNWAY IN CLOSET. IN CLOSET, TURN CONDUIT DOWN AND TERMINATE AT 12" ABOVE CABLE RUNWAY. PROVIDE PLASTIC INSULATING BUSHING ON CONDUIT END.
6. ROUTE EMT (2) 2" CONDUITS TO THE CORRIDOR CEILING SPACE FOR THE RADIO EMERGENCY INDOOR ANTENNAS. TERMINATE CONDUITS WITH A PLASTIC INSULATING BUSHING, UNLESS SPECIFIED OTHERWISE. COORDINATE WITH OOPS RADIO EMERGENCY VENDOR FOR EXACT ROUTES AND LOCATIONS.
7. 12" WIDE CABLE RUNWAY, COLOR BLACK. PROVIDE BUTT-SPLICE KIT TO BUTT-SPLICE SECTIONS OF CABLE RUNWAY (PAINT BEFORE INSTALLING AND TOUCH UP AFTER INSTALLATION). INSTALL ALL CABLE RUNWAY, FITTINGS, AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
8. 12" CABLE RUNWAY WALL ANGLE SUPPORT KIT, COLOR BLACK.
9. CABLE RUNWAY JUNCTION SPLICE KIT.
10. PROVIDE SUPPORT FROM STRUCTURE.
11. FLOOR MOUNT EQUIPMENT RACK WITH VERTICAL WIRE MANAGEMENT.
12. ROUTE ONE (1) 2" CONDUIT FROM THE EMERGENCY RADIO HEAD-END EQUIPMENT ENCLOSURE TO THE ENCLOSURE IN THE IDF ROOM. SLEEVE AND SEAL FLOOR PENETRATIONS. CONDUITS SHALL TERMINATE AT ENCLOSURE. COORDINATE WITH RADIO CONTRACTOR FOR EXACT LOCATION.



2 TSER / MDF WALL FIELD AND RACK DETAILS
NOT TO SCALE

GENERAL NOTES:

1. CONTRACTOR TO INSTALL NEW FLOOR MOUNTED EQUIPMENT RACKS, CPI #55053-703 WITH VERTICAL CABLE MANAGEMENT #13912-703, HORIZONTAL CMS #13930-702, BASE INSULATOR KIT #10605-019 AND INSTALLATION KIT #40604-001. ALL RACKS AND COMPONENTS SHALL BE BLACK. ALL RACKS SHALL BE INSTALLED AS SHOWN.
2. CONTRACTOR TO INSTALL NEW OVERHEAD 12" LADDER TRAY CPI #10250-713 FROM TOP OF EACH RACK TO WALL, AND ALL AROUND ROOM WALLS AS SHOWN ON DRAWINGS AT 8' AFF. CONTRACTOR TO PROVIDE 18" WALL MOUNTS, BUTT SPLICES, WATERFALLS, RUNWAY MOUNTING PLATE WITH BRACKETS. WALL MOUNTING ANGLE SHALL BE CPI #11911-718 AND BE SECURED USING TAP-CONS OR APPROVED FASTENING DEVICES.
3. CONTRACTOR TO INSTALL NEW TELECOMMUNICATIONS GROUNDING BUSS BAR BUILDING GROUND BY RUNNING A NEW MINIMUM #4 AWG CONDUCTOR BACK TO THE NEAREST ELECTRICAL ROOM FEEDING THIS SPACE GROUND BUSS BAR OR PANEL GROUND. EACH RACK AND LADDER TRAY SEGMENT WILL REQUIRE TO BE INDIVIDUALLY GROUNDED USING A #6 AWG STRANDED GREEN CONDUCTOR.
4. CONTRACTOR TO INSTALL NEW TELECOMMUNICATIONS SERVICES PLYWOOD BACKBOARD ON ALL WALLS AS INDICATED ON THE DRAWINGS.
5. CONTRACTOR TO INSTALL NEW CAT6 48 PORT PATCH PANEL INCLUDING A LABEL KIT AS SHOWN ON THE DRAWINGS.
6. PROVIDE ACCURATE LABELING AT TERMINATION RACKS, WORKSTATION FACEPLATES AND ON AS-BUILT DRAWINGS PER PLANS AND SPECS.
7. CONTRACTOR IS RESPONSIBLE FOR CORRECT QUANTITIES OF PATCH PANELS AND CABLE MANAGEMENT PANELS REQUIRED FOR A COMPLETE INSTALLATIONS.

KEYNOTES [X]:

1. N/A
2. PROVIDE AND INSTALL CAT 6 48 PORT PATCH PANEL. PROVIDE CABLE STRAIN RELIEF ON BACK OF PANEL. TYPICAL.
3. PROVIDE AND INSTALL 2 RU HORIZONTAL CABLE MANAGEMENT PANEL FOR A COMPLETE CABLE ROUTING SYSTEM. TYPICAL
4. PROVIDE AND INSTALL 1RU PULL-OUT KEYBOARD, 17" LCD MONITOR AND MOUSE DRAWER. MOUNT IN CABINET AT 40" AFF
5. APPLICATION SERVERS PROVIDED AND INSTALLED BY OWNER
6. SERVICE PROVIDERS CABLING, LIGHTNING PROTECTION TERMINATION BLOCKS AND PANELS AND EQUIPMENT, NIC.
7. EACH CABINET/RACK REQUIRES TWO CIRCUITS EACH. (1) 120VAC, 20 AMP L5-20R DEDICATED POWER CIRCUIT AND (1) 208VAC, 30 AMP L6-30R TWIST-LOCK. POWER SYSTEM PROVIDED BY OTHERS. PROVIDE EACH CABINET WITH TWO (2) VERTICAL POWER STRIPS. POWER STRIPS WILL BE PLUGGED INTO UPS AT BOTTOM OF CABINET/RACK.
8. PROVIDE AND INSTALL VENTED SHELF CPI #40117-719 AS SHOWN.
9. ALL LIFE SAFETY UTP CABLING AT THE FIRE ALARM PANEL AND AT THE ELEVATOR CONTROL PANEL WILL TERMINATE AT THE 66 BLOCK IN THE MDF.
10. PROVIDE AND INSTALL CORNING CCH-04U HOUSING AS SHOWN ON THE DRAWINGS WITH CCH-CP-12-91 DUPLEX SC OM-1 BULKHEAD CONNECTORS AND CCH-CP-12-59 SC OS-2 BULKHEAD CONNECTORS. ALL FIBERS WILL BE FUSION SPLICED AND CERTIFIED WHEN COMPLETED.
11. PROVIDE AND INSTALL CAT6 SHIELDED PATCH PANEL FOR AV SYSTEM CONNECTIONS, PANDUIT #CP24WSBLKY6TGBL WITH SHIELDED JACK MODULES #CJS688TGY.
ALL AV CABLES SHALL BE SHIELDED CAT6 CABLES COMMSCOPE #GGASPEED X10D 2291B ETL WITH SHELDED RJ-45 JACK MODULES.

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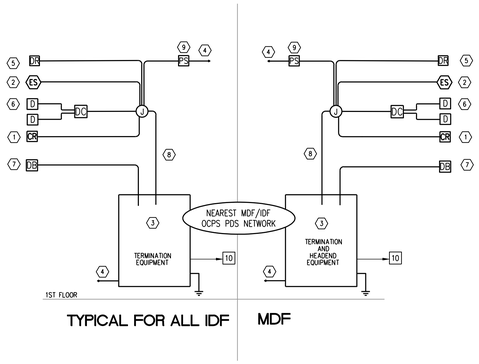
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GENERAL NOTES:

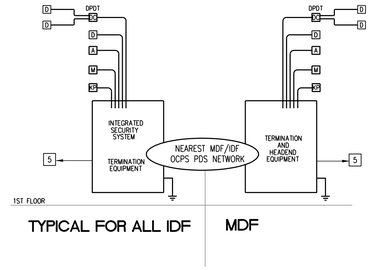
1. PROVIDE COMPLETE CABLING INFRASTRUCTURE SYSTEM (CONDUIT, BOXES, WIRE, CABLING, ETC.).
   SYSTEM DEVICES (CARD READERS, DOOR CONTACTS, MONITORS, ETC.), MAIN HEADEND EQUIPMENT AND PROGRAMMING TO BE PROVIDED AND INSTALLED BY OWNER'S VENDOR.
2. COORDINATE WITH ALL OTHER TECHNOLOGY SYSTEMS, FOR EXAMPLE, INTRUSION DETECTION, CCTV, FIRE ALARM, ETC.
3. SEE FLOOR PLANS AND SPECIFICATIONS FOR DEVICE LOCATION, QUANTITIES, CABLE REQUIREMENTS AND OTHER INFORMATION.

ACCESS CONTROL DETAILS NOTES /:

1. PROVIDE THE 3 PAIR 22 AWG PORTION OF THE BELDEN #5584FS (RISER) CABLE TO CARD READER BACKBOX.
2. PROVIDE (2)#12 AWG CABLE FROM POWER SUPPLY TO THE ELECTRIC DOOR LOCK MECHANISM. LENGTH OF CABLE SHALL NOT EXCEED 200 INCLUDING ANY SERVICE LOOPS.
3. PROVIDE MAAC MODEL #2100 OR SCHOTROL EQUAL INTERNET BASED ACCESS CONTROL PANEL WITH POWER SUPPLIES, CHARGER, AND BATTERIES TO PROVIDE 24 HOUR BACKUP. PROVIDE SURGE SUPPRESSION FOR ALL CABLES AND PROPERLY LABEL AND TERMINATE TO TERMINAL STRIPS IN PANEL.
4. 120VAC POWER INPUT, 2#12, #12G, 3/4"C, WITH 120VAC SURGE SUPPRESSOR.
5. PROVIDE (2) 22 AWG CABLE TO PUSHBUTTON STATION.
6. PROVIDE (2) 22 AWG CABLE TO DOOR CONTACT (CONTACT PROVIDED UNDER INTRUSION DETECTION).
7. PROVIDE 16/4 CABLE FROM DRUSS PUSHBUTTON TO THE ACCESS CONTROL PANEL IN THE MDF ROOM.
8. (1) BELDEN #5584FS (RISER) CABLE AND (2) #12 AWG, WITH 10' SERVICE LOOP AT EACH END. CABLE MAY BE RUN FREEWIRE THROUGH CONCEALED CEILING SPACES WITH SUPPORT IN ACCORDANCE WITH SPECIFICATIONS.
9. PROVIDE DOOR POWER SUPPLY NEAR DOOR TO BE CONTROLLED, ABOVE ACCESSIBLE CEILING.
10. ALL ACCESS CONTROL PANELS ARE TO BE CONNECTED TO OCPS PDS NETWORK.

01 ACCESS CONTROL SYSTEM DIAGRAM

NO SCALE

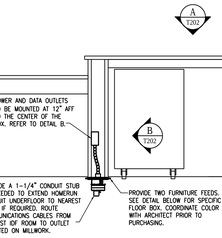


INTRUSION DETECTION SYSTEM NOTES:

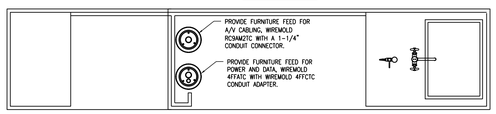
1. PROVIDE COMPLETE CABLING INFRASTRUCTURE SYSTEM (CONDUIT, BOXES, WIRE, CABLING, ETC.).
   INTRUSION DETECTION SYSTEM DEVICES (DOOR CONTACTS, AUDIO SENSORS, ETC.), MAIN HEADEND EQUIPMENT AND PROGRAMMING TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY OWNER'S VENDOR.
2. COORDINATE WITH ALL OTHER TECHNOLOGY SYSTEMS, FOR EXAMPLE, INTRUSION DETECTION, CCTV, FIRE ALARM, ETC.
3. COORDINATE ALL THE INTRUSION DETECTION WIRING REQUIREMENTS WITH OWNER'S VENDOR.
4. SEE FLOOR PLANS AND SPECIFICATIONS FOR DEVICE LOCATION, QUANTITIES, CABLE REQUIREMENTS AND OTHER INFORMATION.
5. ALL INTRUSION DETECTION PANELS ARE TO BE CONNECTED TO OCPS PDS NETWORK.

02 INTRUSION DETECTION SYSTEM DIAGRAM

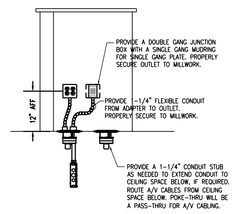
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ELEVATION



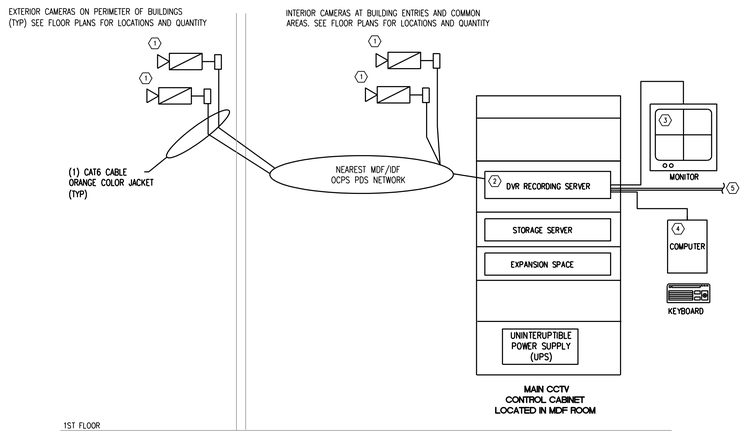
A - PLAN VIEW



B - INTERIOR ELEVATION

03 LOBBY DESK / VISITOR KICKS CASEWORK ROUGH-IN DETAIL

NO SCALE



CCTV SYSTEM DIAGRAM NOTES:

1. WALL MOUNTED SURVEILLANCE CAMERA FURNISHED BY OWNER'S VENDOR.
2. NETWORK RECORDING SERVER WITH CAPABILITY TO SUPPORT UP TO 16 CAMERAS AND EXPANSION STORAGE. FURNISHED BY OWNER'S VENDOR.
3. MONITORS BY OWNER (TYP.).
4. CPU BY OWNER.
5. PROVIDE NETWORK ACCESS TO OCPS PDS NETWORK, BY PC AT CSR, LINE CONTROL, AND/OR ANY OTHER LOCATION AS DIRECTED BY OWNER.

NOTE: COORDINATE ALL REQUIRED INFRASTRUCTURE/EQUIPMENT REQUIREMENTS WITH SECURITY VENDOR AND OWNER PRIOR TO INSTALLATION.

04 SECURITY CAMERA SYSTEM DIAGRAM

NO SCALE

DICKERSON ARCHITECTS, INC.
PO BOX 492226 LEESBURG, FL 34749-2226
(352) 787-1687 (352) 787-1689
EMAIL: JSDARCH@AOL.COM
LICENSE NO. AA0000592

RECORD SET

LAKE COUNTY ANIMAL SHELTER
TAVARES, LAKE COUNTY, FL

DATE	DESCRIPTION/ CHECKED REVISIONS
10-29-2019	

1717
PROJECT

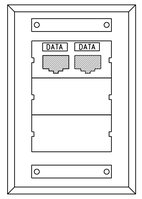
SHEET NO.
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OCI ASSOCIATES, INC.
Consulting Engineers
Ft. Pierce • West Palm Beach • Ft. Myers • Tampa • Washington D.C.
Orlando
600 South Orlando Ave.
Maitland, FL 32751
(407) 330-5110 Fax: (407) 332-7704
www.ociassociates.com
CERTIFICATE OF AUTHORIZATION #6261

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800 S. ORLANDO AVE. SUITE 100
MAITLAND, FL 32751
FL REG. NO.: PE56402

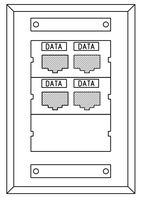
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D2
▼ - OUTLET CONFIGURATION KEY AS INDICATED ON PLANS



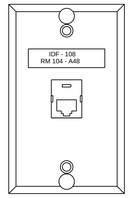
01 2 PORT OUTLET
N.T.S.

D4 OR D2/DS
▼ - OUTLET CONFIGURATION KEY AS INDICATED ON PLANS



02 4 PORT OUTLET
N.T.S.

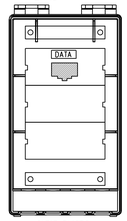
W
▼ - OUTLET CONFIGURATION KEY AS INDICATED ON PLANS



STAINLESS STEEL WALL PLATE, SINGLE GANG, SINGLE JACK, WITH LUGS FOR WALL PHONE MOUNTING. PROVIDE WITH 8-PIN (RJ45) MODULAR JACK ASSEMBLY. TERMINATE ALL PAIRS ON PATCH PANEL.

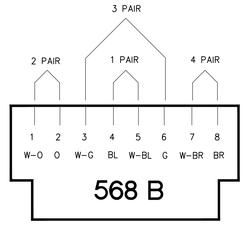
03 WALL PHONE OUTLET
N.T.S.

D1 WP
▼ - OUTLET CONFIGURATION KEY AS INDICATED ON PLANS



CLEAR PLASTIC WEATHER-RESISTANT COVER

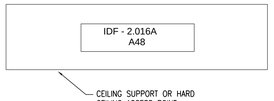
04 OUTDOOR OUTLET
N.T.S.



NOTES:
1. EIGHT-POSITION JACK PIN/PAIR ASSIGNMENTS EIA/TIA-568B. (ALL 4-PAIR CATEGORY 6 CABLES SHALL BE TERMINATED IN THIS CONFIGURATION.)

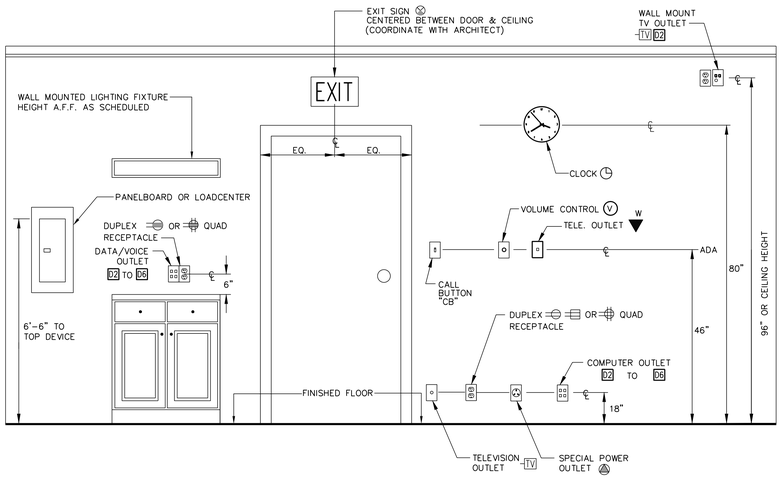
05 TYP. MODULAR JACK WIRING CONFIGURATION
SCALE: N.T.S.

WAP - OUTLET CONFIGURATION KEY AS INDICATED ON PLANS



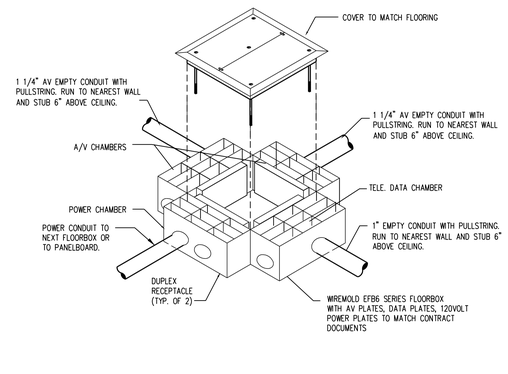
NOTES:
1. PROVIDE BELOW CEILING LABELS FOR ALL TERMINATIONS LOCATED ABOVE CEILINGS OR IN OUT OF VIEW LOCATION.

06 ABOVE CEILING LABEL
SCALE: N.T.S.



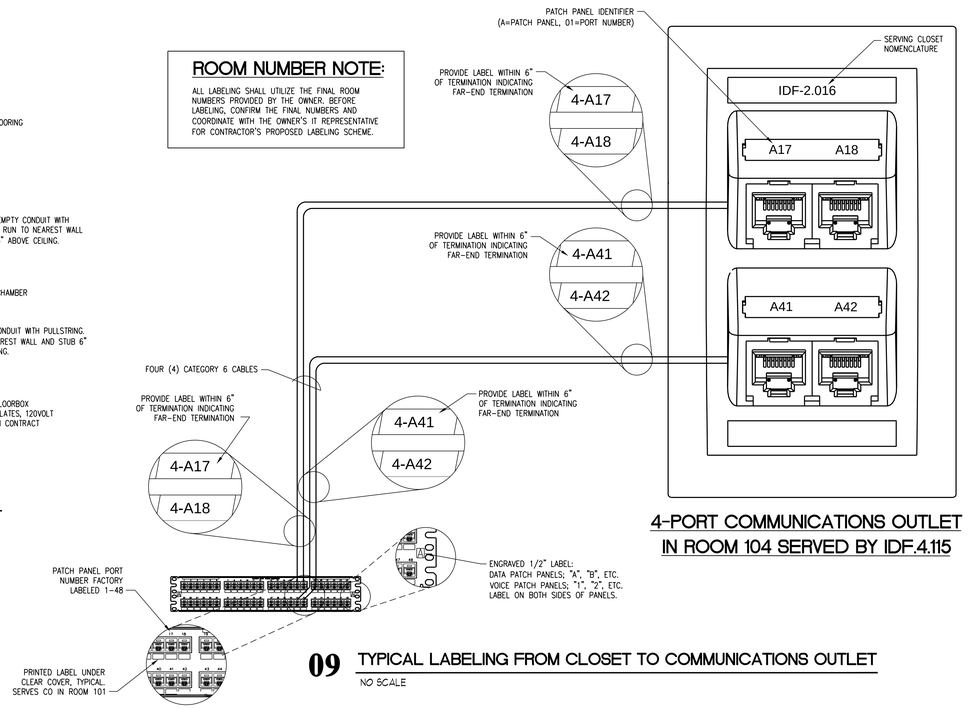
NOTES: ALL DIMENSIONS ARE INDUSTRY RECOMMENDATIONS AND ARE OFFERED AS GUIDELINES. SEE DRAWINGS AND DETAILS FOR SPECIFIC DEVICE AND LOCATION MOUNTING HEIGHTS. FIELD CONDITIONS MAY REQUIRE ADJUSTMENTS DETERMINED BY THE THE CONTRACTOR ON SITE.

07 TYPICAL WALL MOUNT INFORMATION
NO SCALE



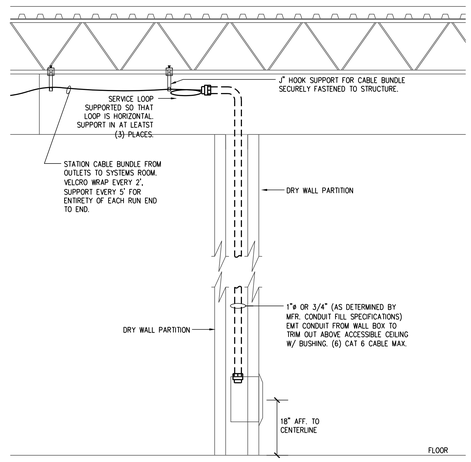
08 POWER/COMM/AV FLOOR BOX
NO SCALE

ROOM NUMBER NOTE:
ALL LABELING SHALL UTILIZE THE FINAL ROOM NUMBERS PROVIDED BY THE OWNER. BEFORE LABELING, CONFIRM THE FINAL NUMBERS AND COORDINATE WITH THE OWNER'S IT REPRESENTATIVE FOR CONTRACTOR'S PROPOSED LABELING SCHEME.

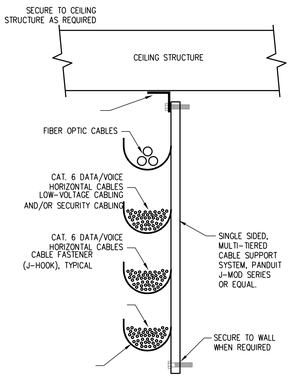


4-PORT COMMUNICATIONS OUTLET IN ROOM 104 SERVED BY IDF.4.115

09 TYPICAL LABELING FROM CLOSET TO COMMUNICATIONS OUTLET
NO SCALE

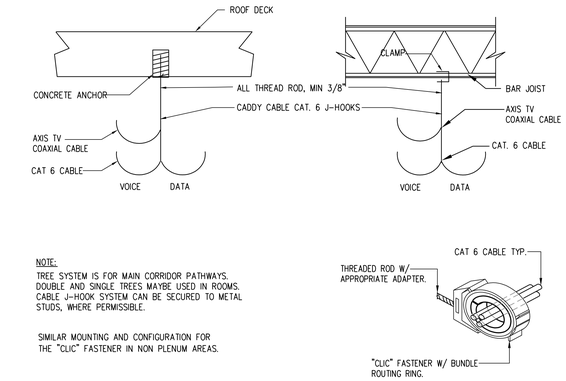


10 FLUSH WALL MOUNTED OUTLET
NO SCALE



GENERAL NOTES:
1. CABLING CONTRACTOR IS TO PROVIDE AND INSTALL OVERHEAD WIRE MANAGEMENT AS REQUIRED FOR ROUTING CABLES. PROVIDE CABLE FASTENERS AS SHOWN IN DETAIL TO ROUTE STRUCTURED CABLING AND OTHER LOW-VOLTAGE CABLING (EXCEPT FIRE ALARM).
2. CONTRACTOR TO PROVIDE CABLE FASTENERS AS REQUIRED BY MANUFACTURER. TWO FASTENERS ARE REQUIRED AT A MINIMUM; ONE FOR DATA/VOICE AND THE OTHER FOR LOW-VOLTAGE SYSTEMS AND/OR SECURITY WIRING. IF AMOUNT OF CAT6 CABLING EXCEEDS FILL RATIO REQUIREMENTS SPECIFIED BY MANUFACTURER AND IN THE SPECIFICATIONS, ADDITIONAL FASTENERS SHALL BE INSTALLED.
3. ACTUAL LOCATION AND CONFIGURATION OF SUPPORTS AND THEIR LOCATION MAY VARY DEPENDING ON CEILING SPACE CONDITIONS.
4. J-HOOK HANGERS MAY BE DOUBLE SIDED WHEN SECURED TO STRUCTURE ABOVE.
5. WALL MOUNT ON STUDS IS PREFERRED.
6. SYSTEM CABLES SHALL BE SECURED AND BUNDLED SEPARATELY AND UTILIZE A DEDICATED J-HOOK IF SPACE IS AVAILABLE.

11 TECHNOLOGY CABLE HANGER
NO SCALE



NOTE:
TREE SYSTEM IS FOR MAIN CORRIDOR PATHWAYS. DOUBLE AND SINGLE TREES MAYBE USED IN ROOMS. CABLE J-HOOK SYSTEM CAN BE SECURED TO METAL STUDS, WHERE PERMISSIBLE.

SIMILAR MOUNTING AND CONFIGURATION FOR THE "CLIC" FASTENER IN NON PLENUM AREAS.

12 TECHNOLOGY CABLE HANGER AND FASTENERS
NO SCALE

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LICENSE NO. AA C000592

RECORD SET

LAKE COUNTY ANIMAL SHELTER
TAVARES, LAKE COUNTY, FL

DATE 10-29-2019
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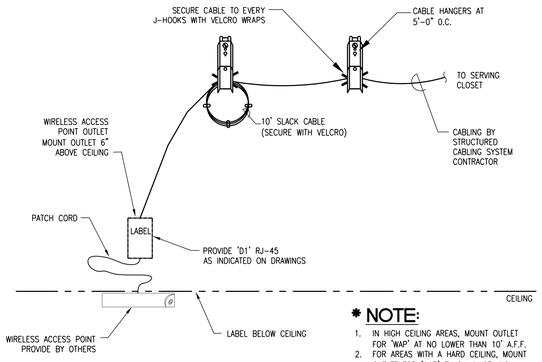
1717 PROJECT

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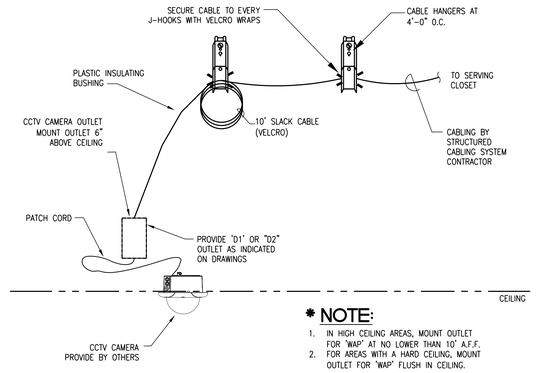
OCI ASSOCIATES, INC.
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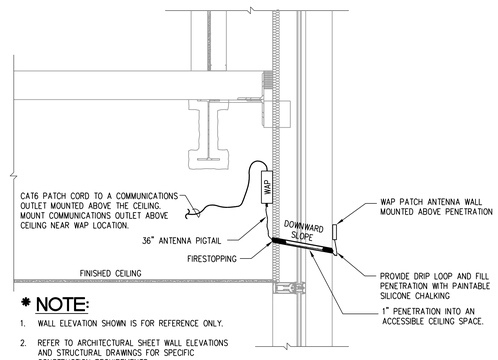
01 WIRELESS ACCESS POINT (WAP) CEILING MOUNT

NO SCALE



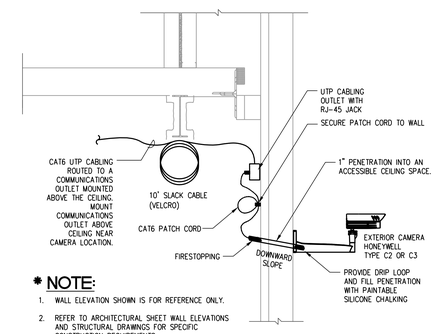
02 SURVEILLANCE CAMERA (CCTV) CEILING MOUNT

NO SCALE



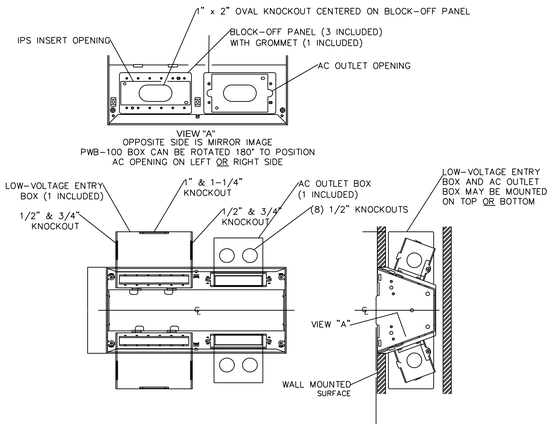
03 WAP ANTENNA ON EXTERIOR WALL

NO SCALE



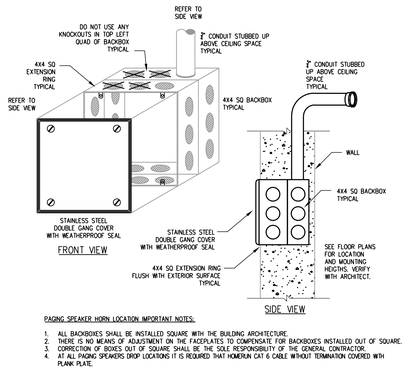
04 CCTV CAMERA ON EXTERIOR WALL

NO SCALE



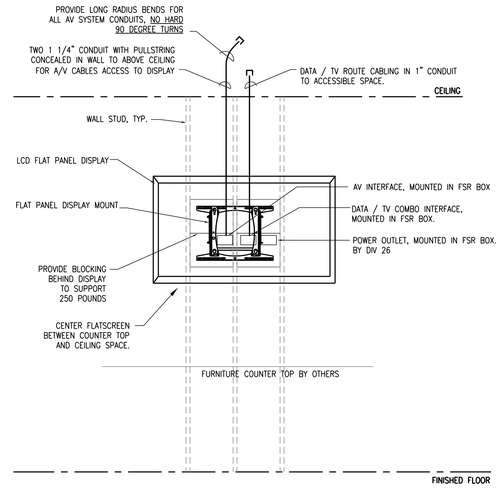
05 RECESSED FSR WALLBOX DETAIL

NO SCALE



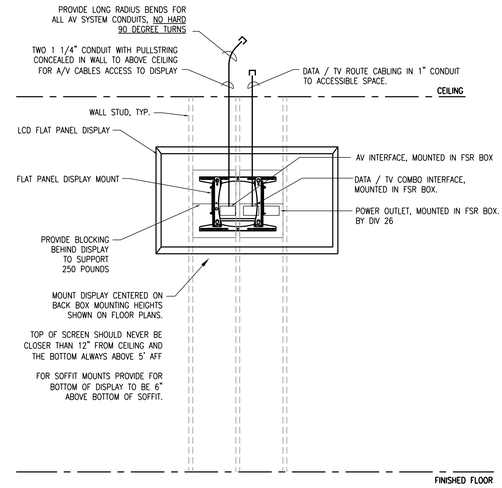
06 PAGING SPEAKER BOX LOCATION "TYPICAL"

NO SCALE



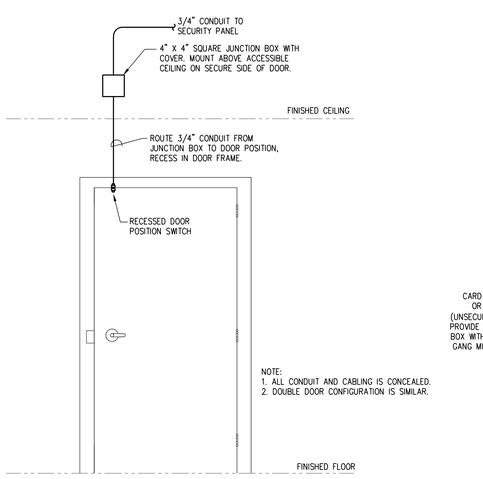
07 TV/AV DISPLAY ABOVE COUNTER TOP

NO SCALE



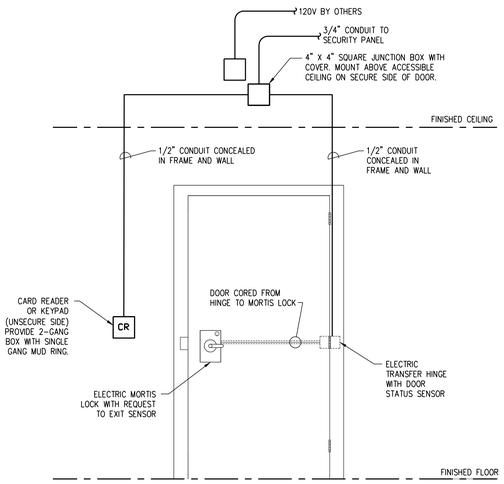
08 TV/AV DISPLAY STANDARD WALL MOUNT

NO SCALE



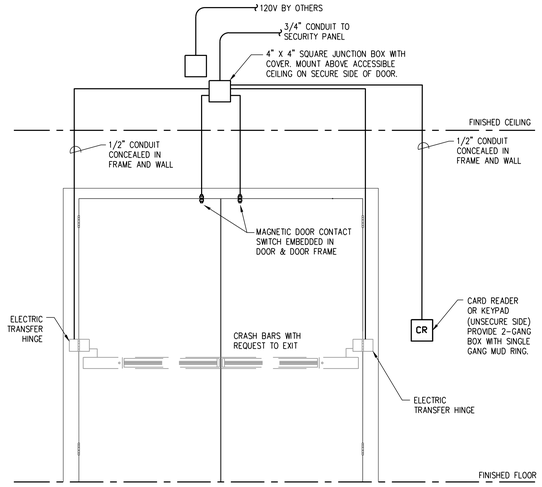
09 SINGLE DOOR WITH DOOR CONTACTS

NO SCALE



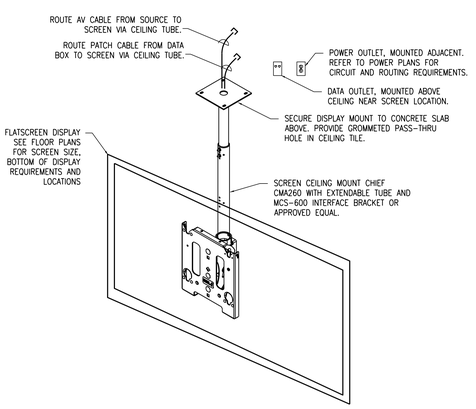
10 SINGLE DOOR WITH CARD READER/KEYPAD

NO SCALE



11 DOUBLE DOOR WITH CARD READER/KEYPAD

NO SCALE



12 CEILING MOUNTED DISPLAY DETAIL

NO SCALE

DICKERSON ARCHITECTS, INC.
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(352) 787-1977
EMAIL: JSDARCH@AOL.COM
LICENSE NO. AA0000592

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LAKE COUNTY ANIMAL SHELTER

TAVARES, LAKE COUNTY, FL

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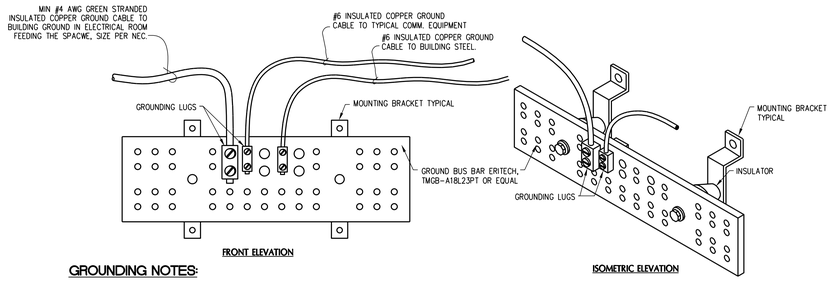
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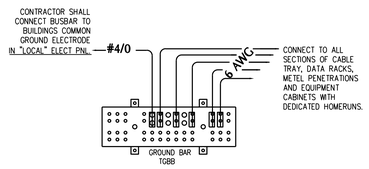
OCI ASSOCIATES, INC.
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FL. REG. NO.: PE56402

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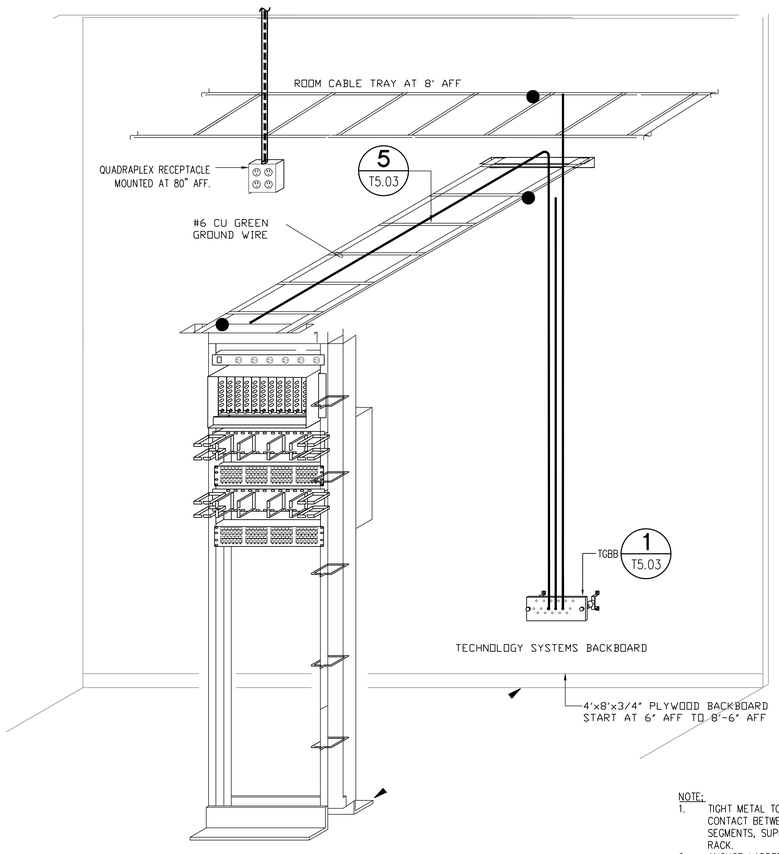
GROUNDING NOTES:

1. ALL GROUND CONNECTIONS SHALL BE MADE WITH HEAVY DUTY 2 HOLE COMPRESSION LUGS WITH STAINLESS STEEL HEX HEAD CAP SCREWS WITH SS LOCKING NUTS (TWO SCREWS AND NUTS PER 2 HOLE LUG).
2. PROVIDE GROUNDING BUSBARS IN ALL COMMUNICATION CLOSETS AND DATA CENTER. GROUND MAIN BUSBAR TO BUILDING MAIN ELECTRICAL SERVICE GROUND WITH INSULATED (GREEN) COPPER GROUNDING CONDUCTOR (SIZE PER NEC) AND #6 BETWEEN BUSBARS IN THAT PARTICULAR SPACE. RUN CONDUCTOR FROM BUSBAR LOCATION TO BUILDING SERVICE GROUND IN EMT CONDUIT. PROVIDE INSULATED GROUNDING BUSHING - MALLEABLE IRON, AT CONDUIT ENDS AND GROUND PER NEC. GROUNDING TO BUILDING STRUCTURE, CONDUITS OR UTILITY PIPING IN LIEU OF BONDING TO BUILDING MAIN ELECTRICAL SERVICE GROUND IS NOT ACCEPTABLE.
3. GROUND ALL COMMUNICATION RACK/CABINET WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR TO MAIN GROUNDING BUSBAR. GROUND RACKS INDIVIDUALLY TO BUSBAR (DO NOT LOOP GROUNDS). ROUTE CONDUCTOR ALONG RACK REAR AND IN CABLE RUNWAY TO GROUNDING BUSBAR.
4. GROUND EACH CONDUIT AND CONDUIT SUPPORTS STRUTS IN ALL COMMUNICATIONS ROOMS WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR. ALL CONDUITS SHALL HAVE A BARE EQUIPMENT GROUND WIRE, CONTINUOUS FROM ALL EQUIPMENT CONNECTIONS, AND BONDED AT ALL BOXES, RUN TO THE FEED PANEL, AND SUBSEQUENTLY TO THE BUILDING EQUIPMENT GROUND.
5. GROUND CABLE RUNWAY WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.



01 COMMUNICATIONS GROUNDING DETAIL

NO SCALE

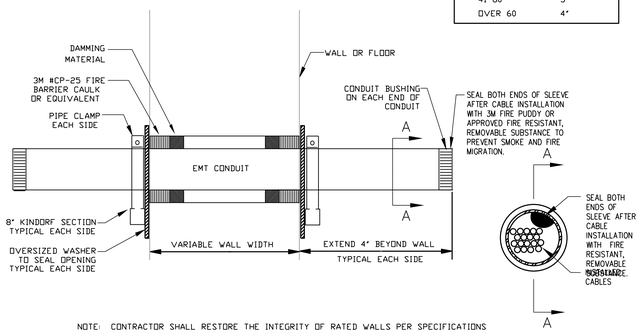


NOTE:
1. TIGHT METAL TO METAL CONTACT BETWEEN TRAY SEGMENTS, SUPPORTS AND RACK.
2. ANCHOR LADDER TRAY WALL BRACKETS WITH TAPCONS OR OTHER APPROVED FASTENERS.
3. DRILL A NEW HOLE IN RACKS FOR ATTACHING GROUND KIT. DO NOT USE EXISTING MOUNTING HOLES.

04 TYPICAL TECHNOLOGY 2-RAIL RACK

NO SCALE

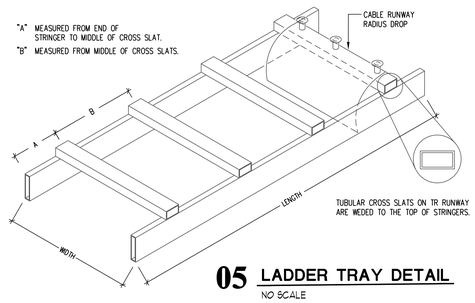
TABLE FOR CAT. 6 CABLES (OD.18")	
# OF CABLES	SLEEVE SIZE
1-8	1"
9-14	1 1/2"
15-18	1 3/4"
19-26	2"
27-40	2 1/2"
41-60	3"
OVER 60	4"



NOTE: CONTRACTOR SHALL RESTORE THE INTEGRITY OF RATED WALLS PER SPECIFICATIONS PROVIDE AT SMOKE RATED WALL PENETRATIONS.

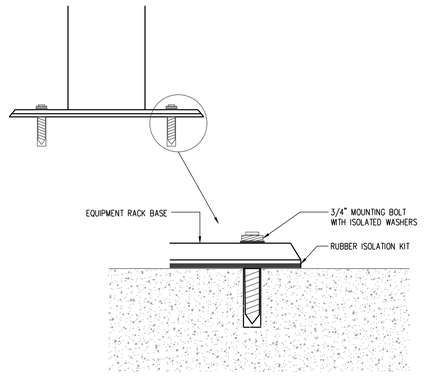
02 HORIZONTAL/VERTICAL PENETRATION

NO SCALE



05 LADDER TRAY DETAIL

NO SCALE



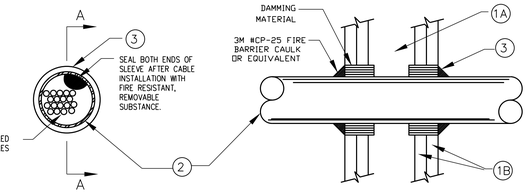
06 RACK FLOOR MOUNTING DETAIL

NO SCALE

SYSTEM NO. WL1001

PROVIDE AT FIRE RATED WALL OR FLOOR PENETRATIONS.

(FORMALLY SYSTEM NO.147)
F RATINGS - 1,2,3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATING - 1,1,2,3 AND 4 HR (SEE ITEM 3)



SECTION A-A

1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR. FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR. FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
   B. WALLBOARD, GYPSUM* - NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 13-1/2 IN.
2. PIPE AND CONDUIT - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL* - CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW.

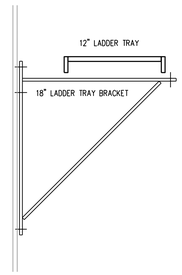
MAX PIPE OR CONDUIT DIAM, IN.	ANNULAR SPACE IN.	F RATING HR	T RATING HR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+ WHEN COPPER PIPE IS USED, T RATING IS 0 H.
MINNESOTA MINING & MFG CO. - TYPES CP-25 S/L, SP-25 N/S, CP-25 WB, CP-25 WB+

*BEARING THE UL CLASSIFICATION MARKING

03 HORIZONTAL/VERTICAL PENETRATION

NO SCALE



07 WALL BRACKET DETAIL

NO SCALE

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RECORD SET

LAKE COUNTY ANIMAL SHELTER
TAVARES, LAKE COUNTY, FL

DATE 10-29-2019
DRAWN
CHECKED
REVISIONS

1717 PROJECT

SHEET NO.
T5.3

RECORD SET
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PRINT DATE:10/29/2019 2:20 PM SAVE DATE:10/24/2018 2:48 PM FILE LOCATION:\LS1\PROJECT DATA\18 JOBS\1829 - LAKE COUNTY ANIMAL SHELTER\DWGS\1812915.DWG