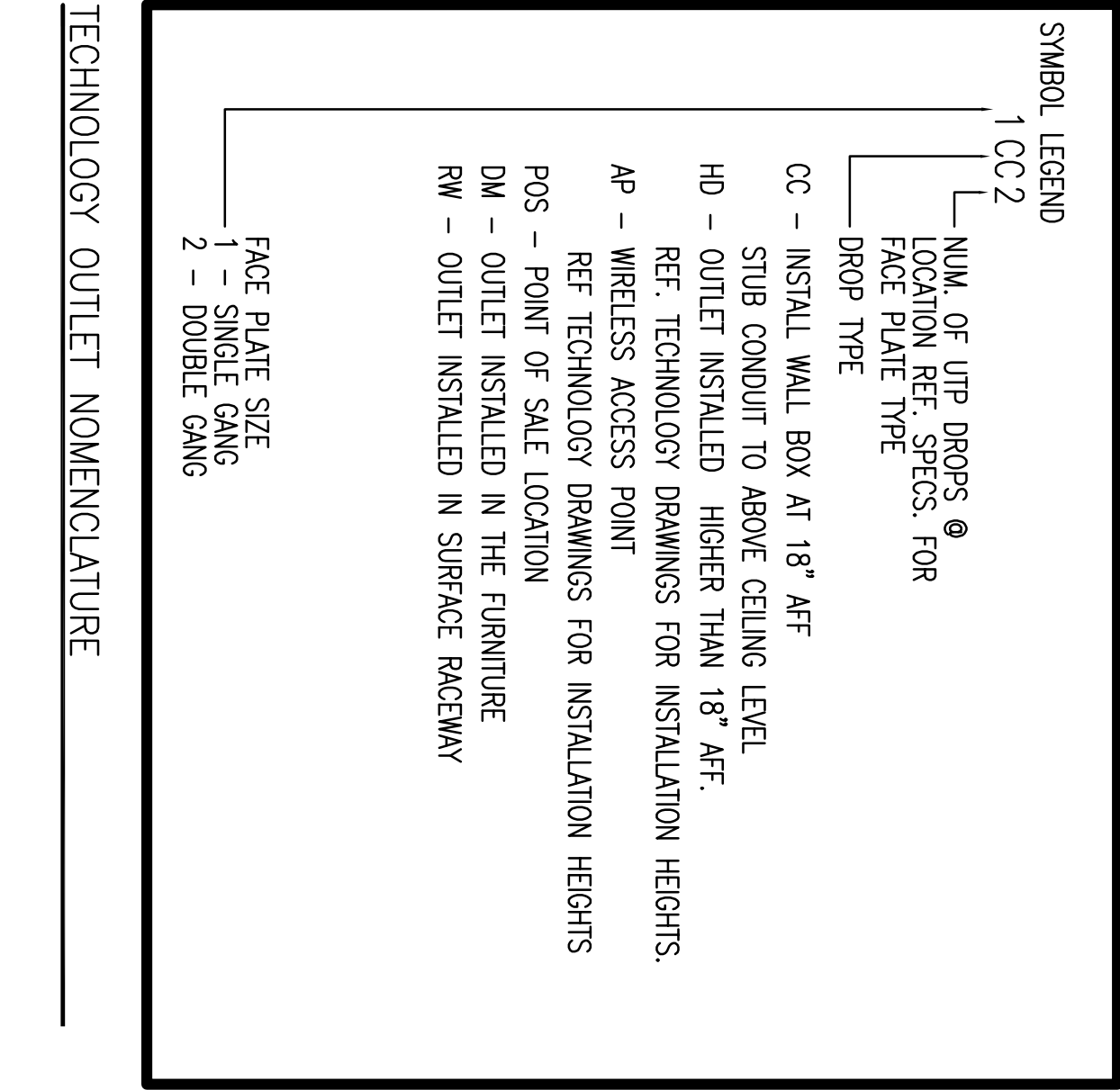
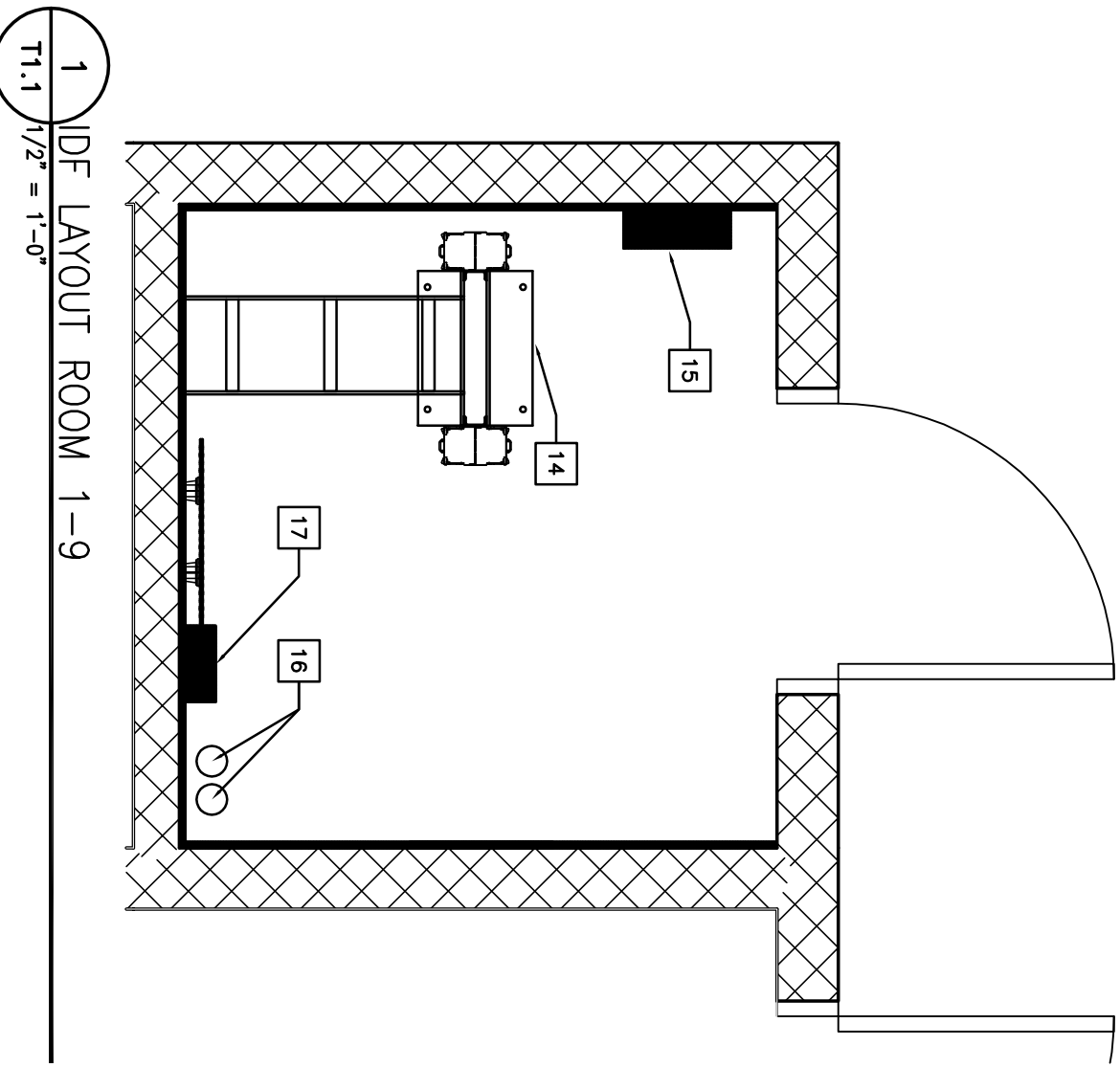


TECHNOLOGY FIRST FLOOR PLAN - FIELDHOUSE
1/8" = 1'-0"



GENERAL NOTES:

1. ANY DIMENSIONS SHOWN ON THESE DRAWINGS ARE INTENDED TO PROVIDE AN IDEA OF THE LOCATION REQUESTED BY THE CLIENT. THE ELECTRICIAN WILL BE RESPONSIBLE FOR CONFIRMING ALL DIMENSIONS PRIOR TO ROUGH IN AND REPORTING ANY CONFLICTS TO THE GENERAL CONTRACTOR.
2. ALL CABLE BUNDLES WILL BE SUPPORTED EVERY 48-60" O.C. WITH A J-HOOK OR OTHER APPROVED PATHWAY DEVICE. PLASTIC TIE WRAPS ARE NOT PERMITTED AT ANY TIME ON THIS INSTALLATION. ALL CABLE ROUGH IN AND DRESS OUT WILL BE WITH VELCRO ONLY.
3. REFER TO THE REFLECTIVE CEILING PLANS FOR LOCAL SOUND, ROOM SOUND AND BUILDING INTERCOM SPEAKER LOCATIONS.
4. CONTRACTOR WILL NOT USE PLASTIC TIE WRAPS ON ANY VOICE OR DATA CABLE BUNDLE AT ANY TIME FOR ANY REASON. CABLE BUNDLES WITH PLASTIC TIE WRAPS ON THEM WILL BE REPLACED AT THE CONTRACTOR'S COST.
5. DO NOT INSTALL ANY LOW VOLTAGE CABLES IN ANY CONDUIT SLEEVE OR STUB UP WITHOUT A PROTECTIVE BUSHING. CABLES PULLED INTO UNPROTECTED CONDUITS WILL BE REPLACED AT THE CONTRACTOR'S COST. DO NOT INSTALL ANY CABLEING INTO ANY CONDUIT THAT HAS NOT BEEN CONFIRMED TO BE BLOWN CLEAR. COORDINATE WITH THE ELECTRICAL PRIOR TO ROUGH IN.
6. THE ICCS IS THE INSTRUCTOR'S OUTLETS FOR THE CLASSROOM. THE FACE PLATE WILL CONSIST OF (2) DATA AND (1) VOIP CONNECTION.
7. ALL HD OUTLETS IN THE COACH'S OFFICES WILL BE INSTALLED 6" ABOVE THE WORK SURFACE.
REF. ARCHITECTURAL DETAILS FOR WORK SURFACE DIMENSIONS PRIOR TO ROUGH IN.
8. EXTERNAL PUBLIC ADDRESS SPEAKER. INSTALL SPEAKER BACK BOX AT 2' ABOVE ADJACENT CEILING SPACE. ELECTRICAL WILL PROVIDE A 3/4" SLEEVE INTO EACH BACK BOX LOCATION FOR PA CONTRACTOR TO USE AS A PATHWAY.
ELECTRICAL WILL PLACE BUSHINGS ON ALL SLEEVES.
9. PROXIMITY CARD READER FOR ACCESS CONTROL SYSTEM. READER AS PER SPECS. ELECTRICAL TO PROVIDE A 1" CONDUIT TO EACH READER LOCATION, WITH A SINGLE GANG FLUSH MOUNTED BACK BOX INSTALLED AT 44" AFF. SECURITY CONTRACTOR WILL WIRE EACH PROXIMITY READER TO NEAREST ACCESS CONTROL PANEL LOCATED IN THE TELECOMMUNICATIONS ROOMS (DETERMINED BY SECTION).
10. DOOR POSITION SWITCH FOR ACCESS CONTROL SYSTEM - SWITCH PROVIDED AND INSTALLED BY THE ACCESS CONTROL CONTRACTOR. REF. ACCESS CONTROL SPECS FOR SWITCH TYPE. ALL POSITION SWITCHES WILL BE MOUNTED FLUSH IN THE FRAME UNLESS NOTED OTHERWISE. ROLL UP DOORS WILL REQUIRE SURFACE CONTACTERS. RUN ALL CONTACT WIRES BACK TO NEAREST ACCESS CONTROL PANEL. ELECTRICAL WILL PROVIDE A 1" CONDUIT WITH BUSHING FROM THE CEILING SPACE INTO THE DOOR FRAME FOR WIRING TO THE DOOR HARDWARE AND POSITION SWITCHES.
11. ONE DATA, ONE VOIP OUTLET
12. DATA ONLY
13. INTERIOR SECURITY CAMERA. DIV. 27000 WILL PULL ONE DATA CABLE TO EACH, TERMINATE THE CABLE ON THE PROPERLY COLORED INSERT. LABEL AND TEST DROP AS PER THE DIV. 27000 SPECS. PROVIDE ONE 10' PATCH CORD AT THE OUTLET LOCATION FOR THE SECURITY CAMERA INSTALLER TO USE. DROP WILL BE TERMINATED ABOVE CEILING. NO POWER REQUIRED FOR ANY INTERIOR CAMERA LOCATION. ELECTRICAL TO PROVIDE A SINGLE GANG BACK BOX WITH A SHORT 8-10" STUB OUT OF 1" CONDUIT WITH A PLASTIC BUSHING - SECURE THE BACK BOX AND CONDUIT WITH ALL THREAD OR DEDICATED GRID WIRE - DO NOT USE THE EXISTING CEILING GRID OR GRID WIRE TO SUPPORT THESE OUTLET LOCATIONS.
THE SECURITY CONTRACTOR WILL MEET WITH THE DISTRICT TO DETERMINE WHICH CAMERAS ARE INSTALLED. REF. THE SECURITY SPECS FOR THE CURRENT NUMBER OF CAMERAS GSD IS WANTING TO INSTALL. ONCE THE CAMERA LOCATION HAS BEEN APPROVED THE SURVEILLANCE CONTRACTOR WILL CONNECT THE CAMERA USING THE PATCH CORD PROVIDED BY THE DIV. 27000 CONTRACTOR. SECURITY CONTRACTOR WILL PROVIDE ALL NECESSARY SIGNAL AND POWER FOR THESE CAMERA LOCATIONS. HEATERS AND BLOWERS ARE REQUIRED FOR ALL EXTERIOR CAMERAS. REF. SPECS FOR DOME AND MOUNT TYPE. SECURE MOUNT TO EXTERIOR WALL WITH MASONRY ANCHORS - DO NOT USE PLASTIC ANCHORS FOR ANY CAMERA MOUNT LOCATION.
PRIOR TO FINAL INSTALLATION OF THE CAMERAS THE SECURITY CONTRACTOR WILL MEET WITH THE DISTRICT TO DETERMINE WHICH CAMERAS ARE INSTALLED. REF. THE SECURITY SPECS FOR THE CURRENT NUMBER OF CAMERAS GSD IS WANTING TO INSTALL AT THIS TIME. ONCE THE CAMERA LOCATION HAS BEEN APPROVED THE SURVEILLANCE CONTRACTOR WILL CONNECT THE CAMERA USING THE PATCH CORD PROVIDED BY THE DIV. 27000 CONTRACTOR. SECURITY CONTRACTOR WILL PROVIDE ALL NECESSARY SIGNAL AND POWER FOR THESE CAMERA LOCATIONS. HEATERS AND BLOWERS ARE REQUIRED FOR ALL EXTERIOR CAMERAS. REF. SPECS FOR DOME AND MOUNT TYPE. SECURE MOUNT TO EXTERIOR WALL WITH MASONRY ANCHORS - DO NOT USE PLASTIC ANCHORS FOR ANY CAMERA MOUNT LOCATION.
14. 84" EQUIPMENT BACK AS PER DIV. 27000 SPECS WITH VERTICAL WIRE MANAGEMENT. ELECTRICAL TO PROVIDE AND INSTALL ONE QUAD OUTLET FOR POWER. DIV. 27000 CONTRACTOR WILL INSTALL THE FIBER TERMINATION SHELF FOR THE HIGH SCHOOL CONNECTION. THE PATCH PANEL FOR THE DATA AND VOIP STATION CABLING WILL BE TERMINATED ON THE SAME PANEL. INSTALL A SEPARATE PATCH PANEL FOR THE SECURITY CAMERA LOCATIONS. VERTICAL WIRE MANAGEMENT AS PER DIV. 27000.
15. ACCESS CONTROL PANEL FOR ACCESS CONTROL SYSTEM IN FIELD HOUSE. INSTALL PANEL AT 60" AFF FROM THE BOTTOM OF THE PANEL TO THE FLOOR IN THE IDF. ELECTRICAL TO PROVIDE POWER FOR POWER SUPPLIES. INSTALL PANEL ON BACK BOARD INSTALLED BY THE DIV. 27000 CONTRACTOR.
16. (2) 4" CONDUITS FROM PULL BOX LOCATED OUTSIDE FACILITY. REF. MEP FOR CONDUIT ROUTES. EXTERIOR FIBER FROM HIGH SCHOOL AND 25 PAIR COPPER BACKBONE WILL BE PULLED THROUGH THESE CONDUITS. PA CONTRACTOR WILL USE ONE CONDUIT TO SUPPORT PA SYSTEM EXTENSION TO FIELD HOUSE.
17. LIGHTNING PROTECTION BLOCKS FOR THE FIELD HOUSE COPPER BACKBONE WILL BE PROVIDED AND INSTALLED BY THE DIV. 27000 CONTRACTOR. INSTALL PANELS AT 48" AFF FROM THE BOTTOM OF THE BLOCKS TO THE FLOOR. TERMINATE COPPER BACKBONE ON THESE BLOCKS AND EXTEND THE CONNECTION TO A SEPARATE WALL MOUNTED T10 BLOCK LOCATED ADJACENT TO THE LIGHTNING PROTECTION.
18. WIRELESS ACCESS POINT INSTALLED 6" ABOVE THE CEILING GRID LINE. ELECTRICAL TO PROVIDE AND INSTALL A SINGLE GANG BACK BOX WITH 1" CONDUIT STUBBED OUT INTO THE CEILING SPACE WITH A PROTECTIVE BUSHING.
19. EXTERIOR SECURITY CAMERA LOCATION. DIV. 27000 WILL PULL ONE DATA CABLE TO EACH CAMERA. TERMINATE THE CABLE ON THE PROPERLY COLORED INSERT. LABEL AND PROVIDE EXCEPT AND TEST OUT THE DROP AS PER THE DIV. 27000 SPECS. PROVIDE ONE 10' PATCH CORD AT THE OUTLET LOCATION. DROP WILL BE TERMINATED ABOVE CEILING ON THE INSIDE OF THE BUILDING. 2' ABOVE THE GRID LINE. NO POWER REQUIRED FOR ANY EXTERIOR CAMERA LOCATION MOUNTED TO A BUILDING. ELECTRICAL TO PROVIDE A SINGLE GANG BACK BOX WITH A SHORT 8-10" STUB OUT OF 1" CONDUIT WITH A PLASTIC BUSHING. THE BACK BOX WILL BE INSTALLED FLUSH TO THE WALL ON THE INSIDE OF THE BUILDING. ELECTRICAL WILL ALSO PROVIDE A 1" CONDUIT WITH BUSHING FROM THE CEILING SPACE INTO THE DOOR FRAME FOR WIRING TO THE DOOR HARDWARE AND POSITION SWITCHES.
20. 14V OUTLET WILL CONSIST OF A SINGLE GANG BACK BOX WITH (3) RCA CONNECTIONS IN IT. 1 VIDEO, 1-LEFT AND 1 RIGHT AUDIO. THESE CONNECTIONS WILL RUN UP THE MONITOR LOCATION DIRECTLY ABOVE. INSTALL OUTLET AT 18" AFF. ELECTRICAL TO PROVIDE QUAD OUTLET.
21. FLAT PANEL MONITOR LOCATION. ELECTRICAL TO PROVIDE A DOUBLE GANG BACK BOX WITH (2) 1" CONDUITS RUNNING UP THE NEAREST CEILING SPACE. FACE PLATE WILL CONSIST OF (3) RCA CONNECTIONS, 1-VIDEO, 1-LEFT AUDIO, 1-RIGHT AUDIO. DIV. 27000 CONTRACTOR WILL WIRE THESE OUTLETS FROM THE MONITOR FACE PLATE TO THE AV PLATE SHOWN. MONITOR MOUNT WILL BE PROVIDED AND INSTALLED BY DIV. 11136 CONTRACTOR AT 10' AFF. INSTALL OUTLETS AT 10' AFF. ELECTRICAL TO PROVIDE DUPLEX OUTLET FOR MONITOR POWER.
22. 1-DATA, 1-VOIP, 1-SAFARI
23. LOCAL SOUND CABINET FOR BUILDING. RUN SPEAKERS FROM FIELD AREA (ALTERNATE) AND FROM THE WEIGHT ROOM. SPEAKERS WILL LAY IN THE CEILING IN THE WEIGHT ROOM. USE CDD-SOUND SPEAKER ARRAY FOR INDOOR FIELD AREA AS PER THE SOUND SPECS. VOLUME CONTROL IS REQUIRED ON BOTH SITES OF THE BUILDING. VOL. CONTROL IN THE WEIGHT ROOM WILL NOT IMPACT THE VOLUME IN THE FIELD HOUSE. ELECTRICAL TO PROVIDE A QUAD OUTLET FOR THIS CABINET. INSTALL WALL CABINET AT 44" AFF FROM THE BOTTOM OF THE CABINET TO THE FLOOR.
24. SINGLE GANG BACK BOX WITH 1" CONDUIT FOR SOUND SYSTEM MICROPHONE. INSTALL BACK BOX AT 18" AFF. FACE PLATE AND MIC INSERTS AS PER LOCAL SOUND SPECS.
25. WALL MOUNT PHONE. INSTALLED AT 44" AFF. NO POWER REQUIRED.
26. SINGLE GANG BACK BOX WITH 1" CONDUIT FOR REMOTE VOL. CONTROL. ON THE ROOM SOUND SPEAKERS. INSTALL VOL. CONTROL AT 44" AFF.
27. INTERIOR SECURITY CAMERA. DIV. 27000 WILL PULL ONE DATA CABLE TO EACH, TERMINATE THE CABLE ON THE PROPERLY COLORED INSERT. LABEL AND TEST DROP AS PER THE DIV. 27000 SPECS. PROVIDE ONE 10' PATCH CORD AT THE OUTLET LOCATION FOR THE SECURITY CAMERA INSTALLER TO USE. DROP WILL BE TERMINATED ABOVE CEILING. NO POWER REQUIRED FOR ANY INTERIOR CAMERA LOCATION. ELECTRICAL TO PROVIDE A SINGLE GANG BACK BOX WITH A SHORT 8-10" STUB OUT OF 1" CONDUIT WITH A PLASTIC BUSHING. SECURE THE BACK BOX AND CONDUIT WITH ALL THREAD OR DEDICATED GRID WIRE. DO NOT USE THE EXISTING CEILING GRID OR GRID WIRE TO SUPPORT THESE OUTLET LOCATIONS.
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Project: ADDITIONS AND RENOVATIONS TO GRAHAM HIGH SCHOOL FOR GRAHAM I.S.D. GRAHAM, TEXAS

Revision / Date

KEY PLAN

Job No. 1593-02

Drawn By: T1.1

DATE: OCTOBER 2, 2007

TECHNOLOGY MASTER PLAN FIELD HOUSE

Sheet No. 1 of 1