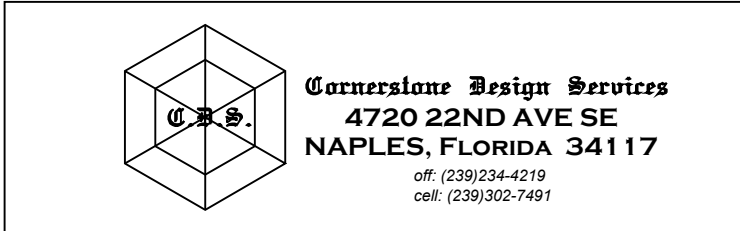


TREDYFFRIN/EASTTOWN SCHOOL DISTRICT
CONESTOGA ATHLETIC FIELDS

[illegible]

SECURITY IP CCTV BID SET

MARCH, 2024



ABBREVIATIONS:

(ALL ABBREVIATIONS ARE TYPICAL UNLESS NOTED OTHERWISE; NOT ALL ABBREVIATIONS ARE NECESSARILY USED)

ACP	- ACCESS CONTROL PANEL
AFB	- ABOVE FINISHED FLOOR
AFG	- ABOVE FINISHED GRADE
AMT	- ASSET MANAGEMENT TRANSCEIVER
APPROX	- APPROXIMATE
BFC	- BELOW FINISHED CEILING
CCTV	- CLOSED CIRCUIT TELEVISION
CLG	- CEILING
DVMR	- DIGITAL VIDEO MULTIPLEXER RECORDER
EC	- ELECTRICAL CONTRACTOR
EXIST	- EXISTING TO REMAIN
FURN	- FURNITURE
HT	- HEIGHT
IDF	- INTERMEDIATE DISTRIBUTION FRAME
LAN	- LOCAL AREA NETWORK
LCD	- LIQUID CRYSTAL DISPLAY
MDF	- MAIN DISTRIBUTION FRAME
MH	- MANHOLE
NA	- NOT APPLICABLE
NC	- NETWORK CONTRACTOR
NIC	- NOT IN THIS CONTRACT
OSP	- OUTSIDE PLANT
PBX	- PRIVATE BRANCH EXCHANGE
POE	- POWER OVER ETHERNET
SSI	- SECURITY SYSTEM INTEGRATOR
TBD	- TO BE DETERMINED
TC	- TELECOMMUNICATION SYSTEMS
TEL	- TELEPHONE
TMH-X	- MANHOLE FOR TELEPHONE/COMMUNICATIONS SAFETY SYSTEMS; X - DENOTES AN IDENTIFICATION LETTER
TYP	- TYPICAL
UON	- UNLESS OTHERWISE NOTED
UTP	- UNSHIELDED TWISTED PAIR
VGA	- VIDEO GRAPHICS ARRAY
VPN	- VIDEO PRIVATE NETWORK
VSIN	- VIDEO SURVEILLANCE/CCTV, INTERCOM AND PAGING SYSTEMS POLE. LABEL N - DENOTES AN IDENTIFICATION NUMBER.
W/	- WITH
WAN	- WIDE AREA NETWORK
WAP	- WIRELESS ACCESS POINT
WS	- WORK STATION, TYPICAL FOR DATA COMMUNICATION

SECURITY ELECTRONIC SYSTEM SYMBOLS:

(ALL SYMBOLS ARE TYPICAL UNLESS NOTED OTHERWISE; NOT ALL SYMBOLS ARE NECESSARILY USED)

MOUNTING	SYMBOLS	DESCRIPTION
		NEW IDF RACK ENCLOSED WITH DOOR AND LOCK PROVIDED BY EC
		CABLE RISER
		NEW JUNCTION BOX WITH CAT 6A-PIGTAIL PROVIDED BY EC
		NEW N4X STAINLESS STEEL POLE-MOUNTED CAMERA ENCLOSURE SEE SHEET C-D-2 DETAIL #2 FOR MORE INFORMATION
		NEW CONDUIT/FIBER FOR INFRASTRUCTURE UPGRADES- REFER TO SHEET NOTES FOR SPECIFICATIONS
		EC-PROVIDED UNDERGROUND CONDUIT- SIZE AND QUANTITY COORDINATE WITH CONTRACTOR
		NEW CAMERA PARAPET MOUNTED- PROVIDED BY SSI
		ROADWAY AND LIGHTING POLE PROVIDED BY OTHERS
		NEW P1800 VIDEO LARM CAMERA POLE PROVIDED BY ELECTRICAL CONTRACTOR
		SPORTING LIGHT POLE

MOUNTING	SYMBOLS	DESCRIPTION
		NEW FIXED DOME CAMERA
		NEW FIXED IR BULLET CAMERA HANWHA PNO-A9311R
		NEW 180° FIXED CAMERA- PNM-9031RV
		NEW PTZ WITH (4) FIXED CAMERAS. ADJUST THE FIXED RAIL-MOUNTED CAMERAS TO VIEW DESIRED LOCATIONS. (1) CAT-6 AND 120VAC POWER REQUIRED. HANWHA TECHWIN #PNM-C34404RQPZ
		(4) FIXED CAMERAS. ADJUST THE FIXED RAIL-MOUNTED CAMERAS TO VIEW DESIRED LOCATIONS. (1) CAT-6 AND 120VAC POWER REQUIRED. HANWHA TECHWIN #PNM-C32083RVQ

DETAIL IDENTIFICATION LABELS:

(ALL LABELS ARE TYPICAL UNLESS NOTED OTHERWISE; NOT ALL LABELS ARE NECESSARILY USED)

	DETAIL DESIGNATION		SECTION SUB-DETAIL DESIGNATION
	DRAWING SHEET No. ON WHICH DETAIL APPEARS		DRAWING SHEET No. ON WHICH SECTION APPEARS
	TYPICAL DETAIL REFERENCE BUBBLE		SECTION MARKER
	DETAIL CALL-OUT		DOOR ELEVATION MARKER
	ELEVATION DETAIL CALL-OUT MARKER		

SECURITY DRAWING SPECIFICATIONS (ALL SHEETS)

- The Security Systems Integrator (SSI) is responsible for the Security Systems work shown on these drawings and is required to coordinate with the TESD Technology Director and their representatives, the site Electrical Contractor (EC) and the site Network Contractor (NC).
- The SSI shall provide all NEW equipment with a full manufacturer's warranty. The SSI shall warranty all their work for 1 year after Substantial Completion is provided by the Owner and their representatives.
- The SSI is responsible for all equipment, wiring, connections, supports, fastening, testing and cleanup of the entire CCTV System. The SSI is responsible for the Means, Methods, Techniques, sequences and procedures for the fabrication and installation process; confirmed and coordinated with the site conditions and coordinated with the other Contractors on site.
- Equipment installation shall be in strict accordance with the Manufacturer's instructions. Coordinate all exterior and interior mounting heights with building architecture and potential obstructions. Bring all mounting location concerns to the Owner and their representatives.
- All wiring shall be concealed and protected in conduits, wireways, boxes and pole chases.
- All outdoor boxes, supports and fasteners shall be Stainless Steel.
- This project is an expansion to an existing TESD IP CCTV System. The SSI shall provide IP Electronic Security Equipment as specified on the drawings that match the existing site security equipment manufacturers (IP CCTV – Hanwha; VMS – Tyco ExacqVision). The new equipment shall flawlessly integrate into the existing system and shall be fully programmed by the SSI as required to meet the Owners Operation requirements.
- The existing IP CCTV VMS Headend is located in the TESD NOC Building. This project requires the addition of 150 Tb of ExacqVision Network Video Storage to the system and complete programming of the new cameras into the VMS. Programming includes views, focus, motion detection, frame rates, PTZ Home positions, PTZ Tours, site mapping with active icons, edge storage, etc. Each camera shall be provided with a 250 Gb SD Card; which shall be programmed for video recovery when the network is down.

- Only Hanwha manufactured pole and building mounts shall be used. Cameras, conduits, mounts and connections shall be watertight. Cameras shall be mounted at a height and oriented in a direction to obtain the optimal viewing coverage of the intended area. The SSI shall readjust the camera angle and position up to two (2) different times to meet the Owners Operational requirements.
- The NC is responsible for the SFP and Copper Switches in the Field House (FH) Rack and the Copper Switch in the Maintenance Building (MB) Rack. The SSI is responsible to provide the (14) SFP Transceivers for communications between the SFP Switch and the Camera Boxes.
- The EC is responsible to provide the FH and MB Racks with UPS units. The EC is responsible for providing the site 120 VAC power and 12-Strand SMFO in underground conduits between the FH rack and the site Camera Boxes.
- The EC is responsible for providing and installing the Stainless Steel Camera Box with a backplate. The SSI is to remove the Backplate and mount all the equipment, including the SSI provided Camera Box SMFO Patch Panel. The EC will provide the FH SMFO Patch Panel and provide all LC tipping and testing. Refer to Camera Box Detail in the Drawings.
- In both the FH and MB, the EC is required to provide the rack-mounted, Cat 6A Patch Panels, EMT conduit, junction box and purple Cat 6A cable between the rack and wall mounted junction box. The EC is required to punch-down and tip the Cat 6A cable and test. The SSI is required to couple the Cat 6A pigtail from the J-Box to the camera and patch the Cat 6A cable in the rack from the patch-panel to the copper switch.
- The EC is responsible for providing and installing the two (2) new VideoLarm camera poles as shown on the drawings. The SSI is responsible for installing the Camera Box components, cameras and connections, refer to Pole Detail in the Drawings.

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DATE:	SUBMISSION:
03-05-24	REV 1
03-11-24	REV 2
03-12-24	REV 3
03-18-24	REV 4

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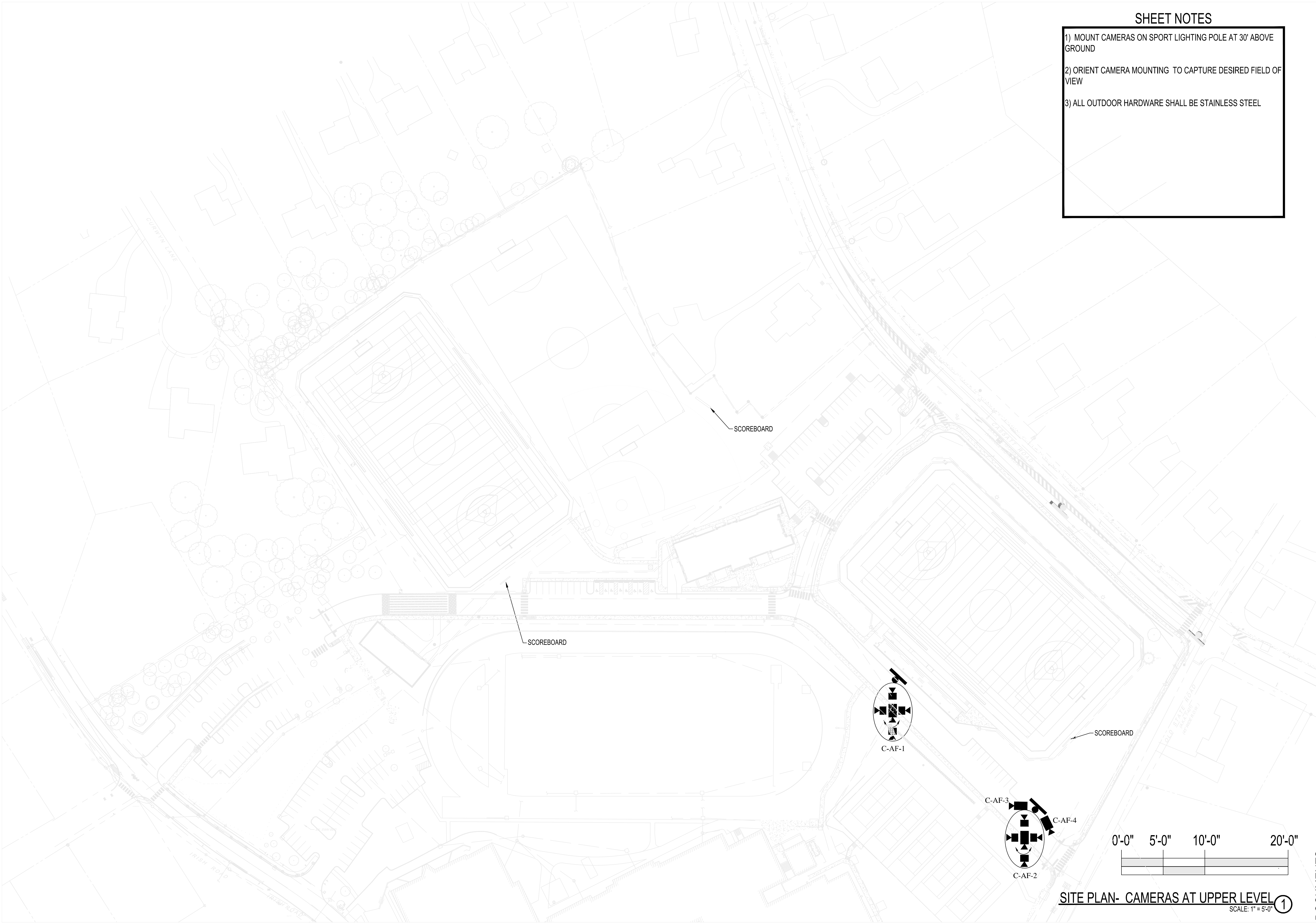
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DRAWN BY:	CDS
CHECKED:	Keith F. McCall
BULLETIN #:	—
DATE:	03-18-24

DRAWING NAME:

LEGEND

DRAWING NUMBER:

C-L



- SHEET NOTES
- 1) MOUNT CAMERAS ON SPORT LIGHTING POLE AT 30' ABOVE GROUND

2) ORIENT CAMERA MOUNTING TO CAPTURE DESIRED FIELD OF VIEW

3) ALL OUTDOOR HARDWARE SHALL BE STAINLESS STEEL

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DATE:	03-18-24

DRAWING NAME:

CAMERA SITE PLAN:
FIELDS-
UPPER LEVEL

DRAWING NUMBER:

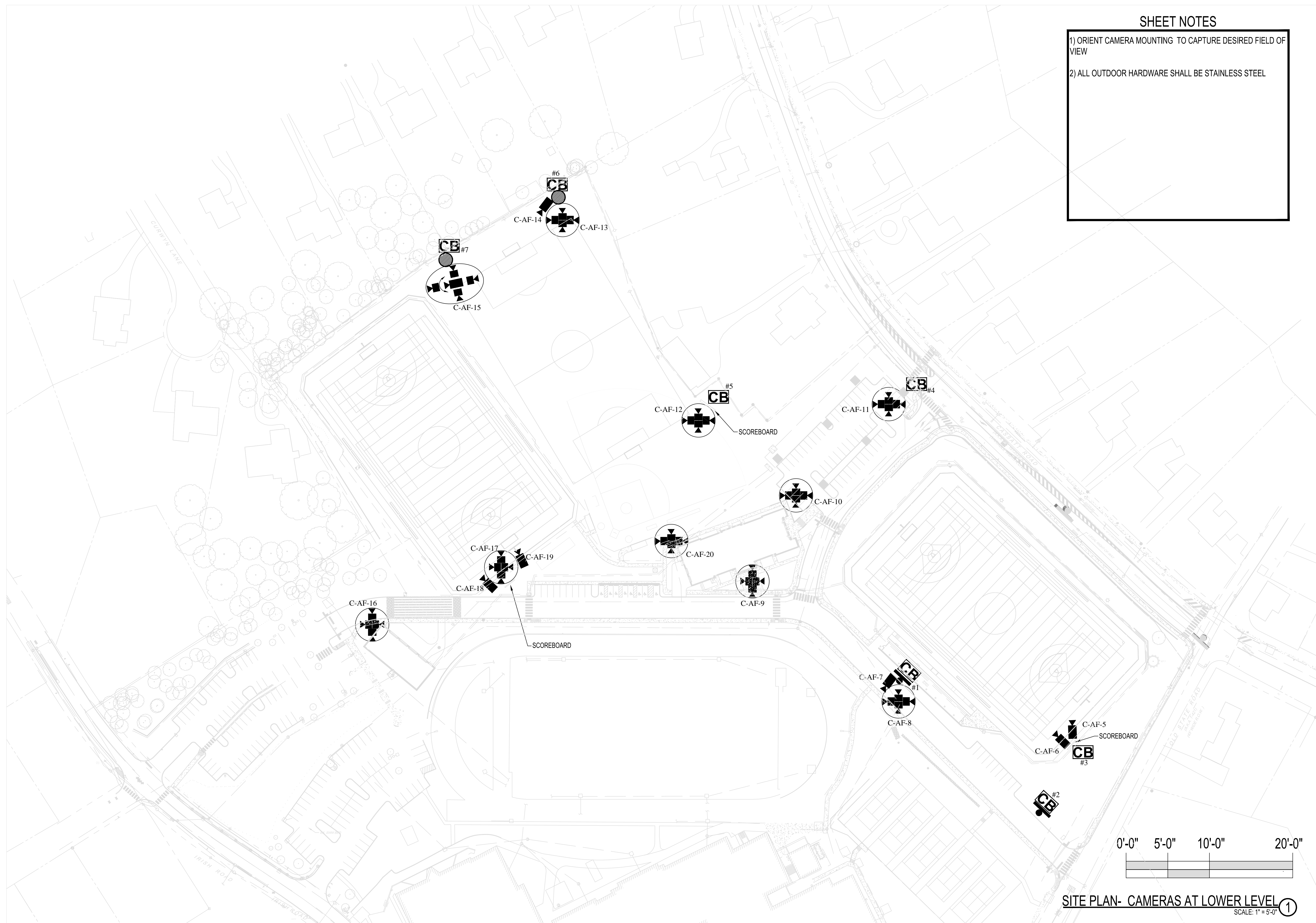
C-SP-UL

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SITE PLAN- CAMERAS AT UPPER LEVEL 1
SCALE: 1" = 3'-0"

SHEET NOTES

- 1) ORIENT CAMERA MOUNTING TO CAPTURE DESIRED FIELD OF VIEW
- 2) ALL OUTDOOR HARDWARE SHALL BE STAINLESS STEEL



SITE PLAN- CAMERAS AT LOWER LEVEL 1

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The logo for Schiller and Hersh Associates, Inc. is located in the bottom right corner. It features a stylized graphic of a building or structure with a large 'S' and 'H' integrated into the design, followed by the company name.

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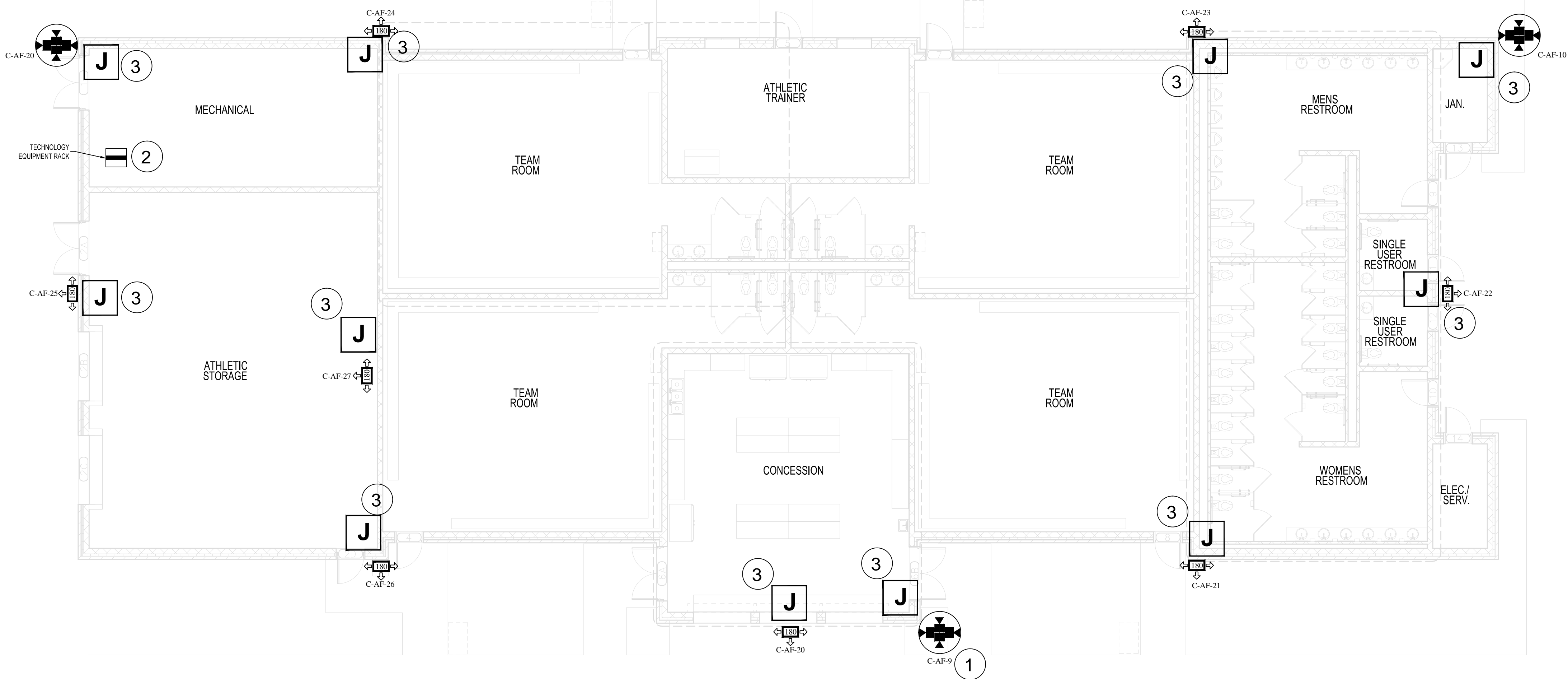
CAMERA SP:
FIELDS-
LOWER LEVEL

DRAWING NUMBER:

C-SP-LL

WORK NOTES

- 1 CAMERA IS ALSO SHOWN ON THE SITE PLAN DRAWING C-SP-LL
- 2 EQUIPMENT RACK: REFER TO DETAIL #4 ON SHEET C-D-1
- 3 EC SHALL PROVIDE 4-SQURE J-BOX, CONDUIT TO RACK AND CAT 6A CABLE BETWEEN THE RACK AND J-BOX. THE EC WILL PUNCH-DOWN THE CAT 6A CABLE AT THE RACK AND TIP THE CAT 6A AT THE J-BOX AND TEST. THE SSI SHALL PROVIDE A CAT 6A COUPLER AT THE J-BOX AND FEED WEATHERPROOF FLEX TO THE CAMERA



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

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DRAWING NAME:

FLOOR PLAN-
FIELD HOUSE

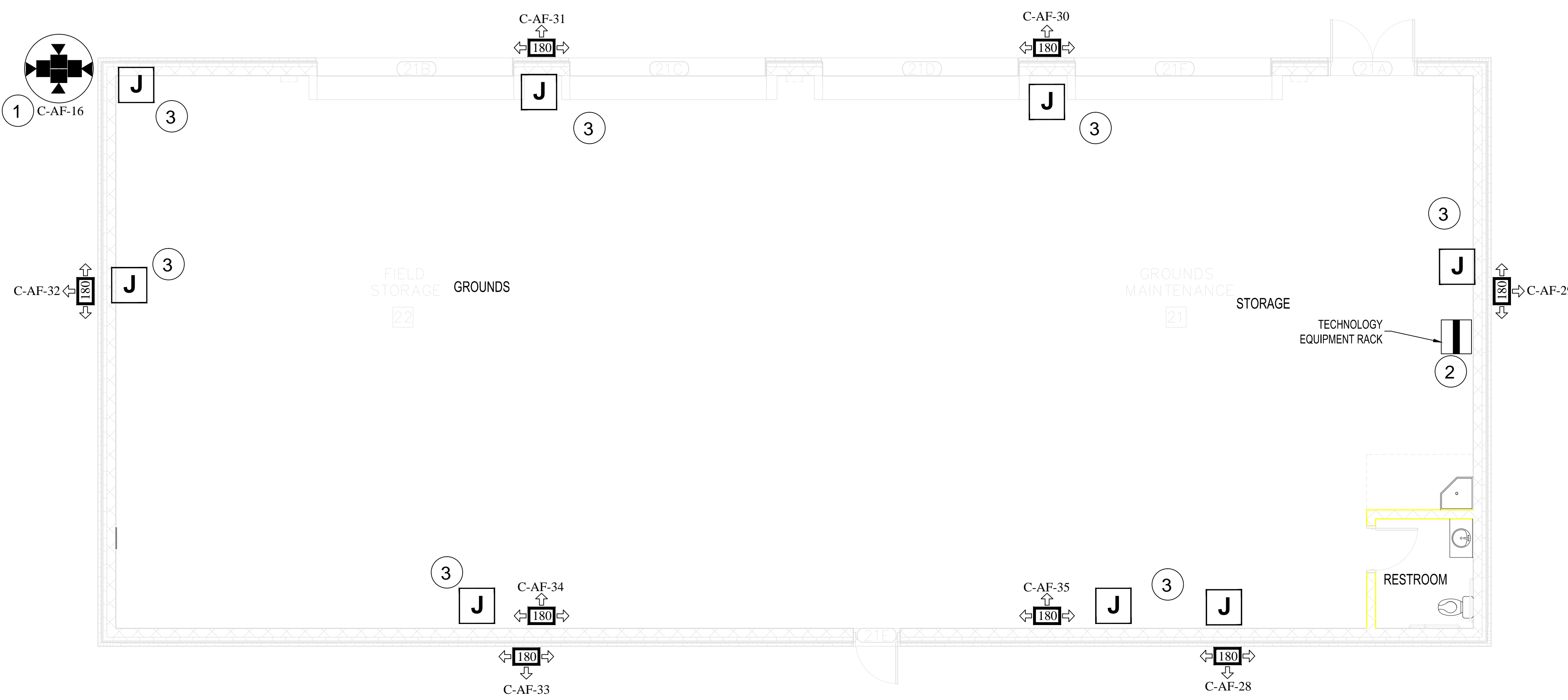
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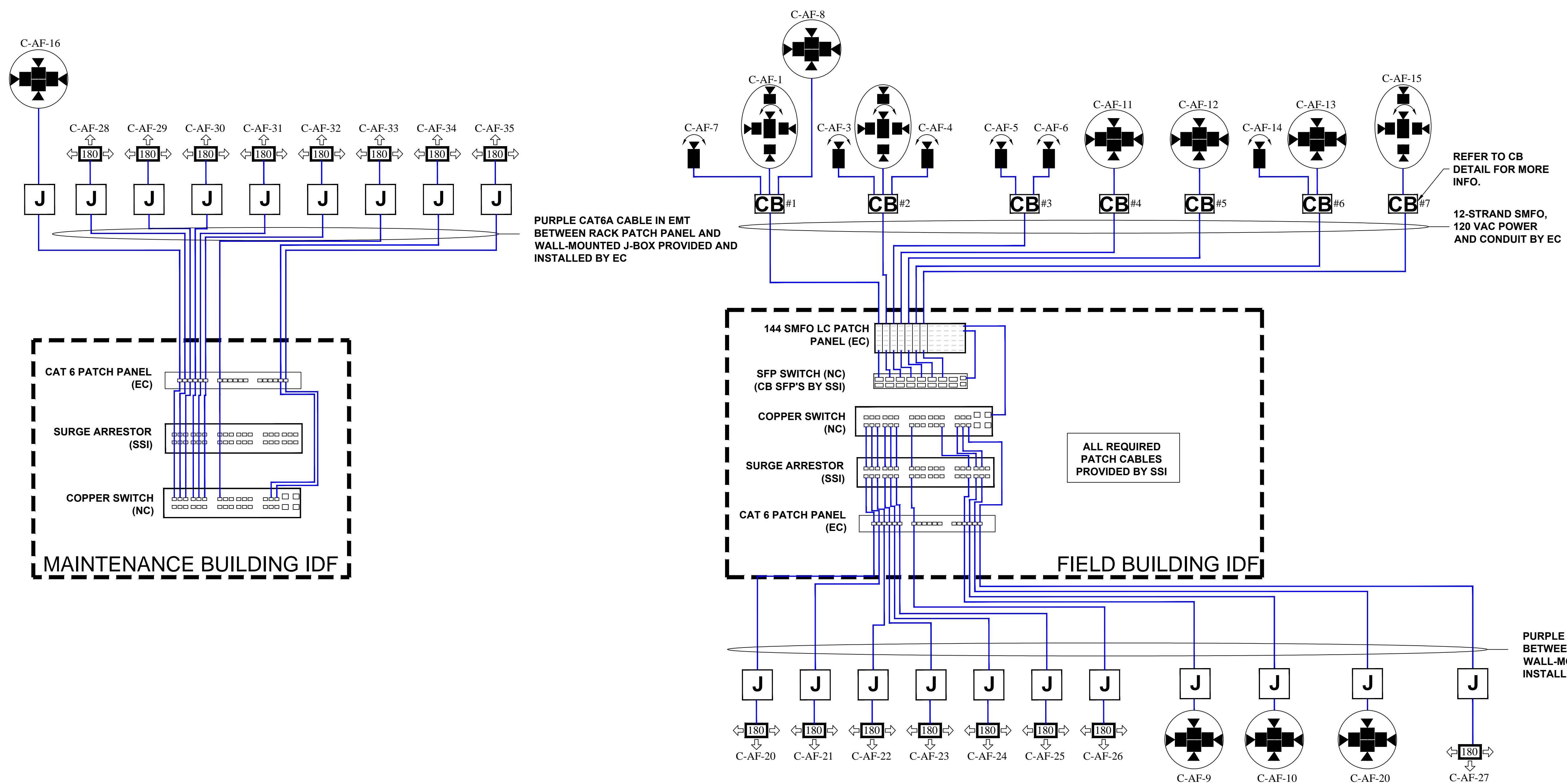
C-FH

BID DOCUMENTS

WORK NOTES

- 1 CAMERA IS ALSO SHOWN ON THE SITE PLAN DRAWING C-SP-LL
- 2 EQUIPMENT RACK: REFER TO DETAIL #3 ON SHEET C-D-1
- 3 EC SHALL PROVIDE 4-SQURE J-BOX, CONDUIT TO RACK AND CAT 6A CABLE BETWEEN THE RACK AND J-BOX. THE EC WILL PUNCH-DOWN THE CAT 6A CABLE AT THE RACK AND TIP THE CAT 6A AT THE J-BOX AND TEST. THE SSI SHALL PROVIDE A CAT 6A COUPLER AT THE J-BOX AND FEED WEATHERPROOF FLEX TO THE CAMERA







A detailed line drawing of a server rack. The rack is shown from a front-three-quarter perspective. At the top, there are two large circular ventilation ports. The front panel features several horizontal slots for components, each with a numbered callout: 1 (top right side panel), 2 (top front panel), 3 (top front panel), 4 (top front panel), 5 (top front panel), 6 (top front panel), 7 (top front panel), and 8 (bottom front panel). The bottom of the rack has four circular cooling fans. The rack is shown sitting on a 'FINISHED FLOOR' with a ground symbol labeled 'GRND' at the bottom center.

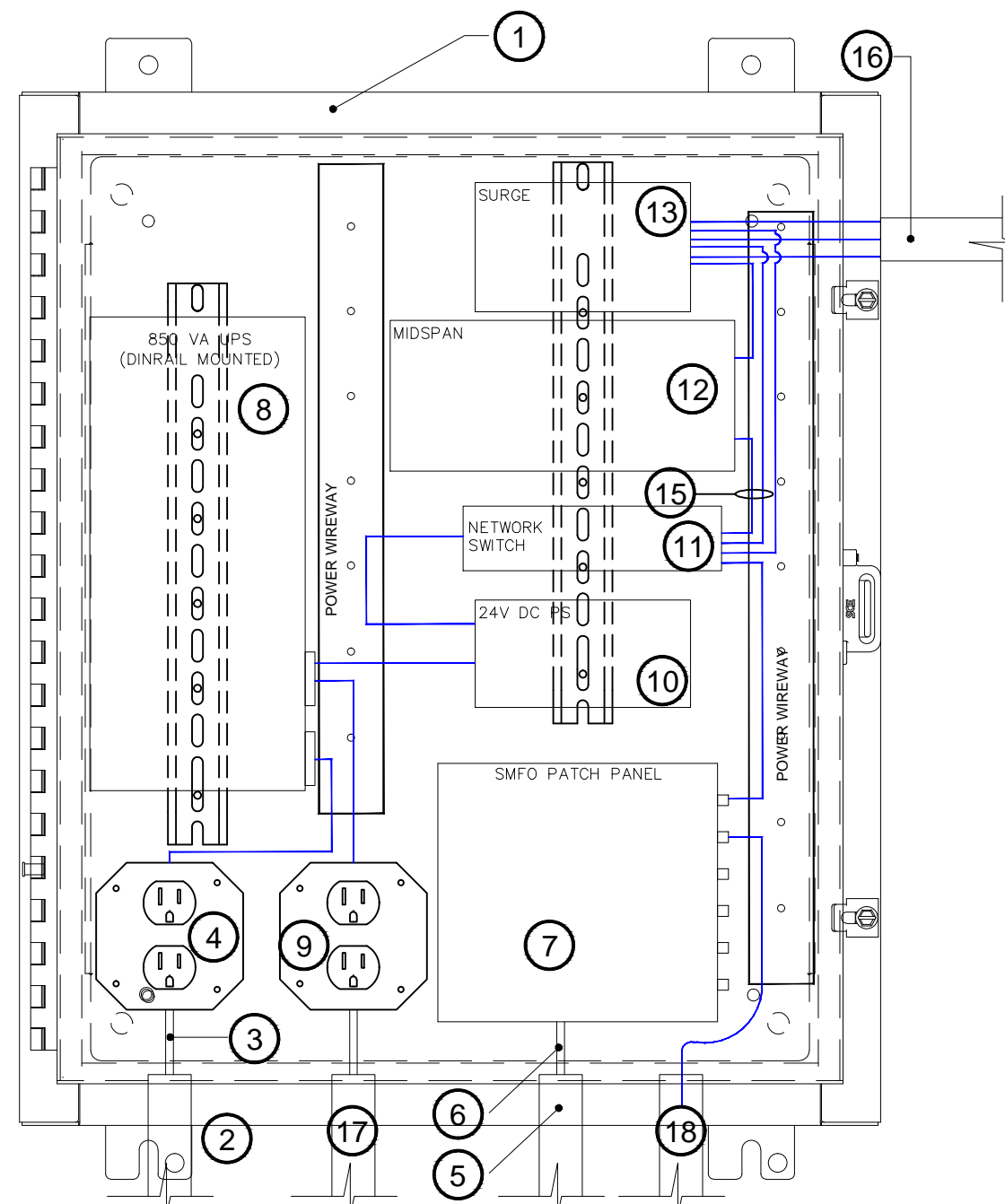
① NEW FREE STANDING RACK PROVIDED BY EC	⑥ NEW CAT 6 SURGE ARRESTOR, PROVIDED BY SSI
② NEW 4U, 144 SMFO LC PATCH PANEL PROVIDED BY EC	⑦ NEW CAT 6A RJ45 (24) PORT PATCH PANEL PROVIDED BY EC
③ NEW SFP SWITCH, PROVIDED BY NETWORK CONTRACTER (NC)	⑧ NEW UPS PROVIDED BY EC
④ NEW COPPER CAT 6A NETWORK SWITCH PROVIDED BY NC	
⑤ NEW 2U WIRE MANAGER, PROVIDED BY SSI	

- ① NEW WALL MOUNTED ENCLOSED RACK, PROVIDED AND INSTALLED BY EC.
- ② NEW 48 PORT SFMO TYPE LC PATCH PANEL, PROVIDED, INSTALLED, TIPPED AND TESTED BY THE EC.
- ③ NEW PoE SWITCH PROVIDED AND INSTALLED BY NETWORK CONTRACTOR
- ④ NEW WIRE MANAGEMENT- PROVIDED AND INSTALLED BY SSI
- ⑤ NEW CAT 6 SURGE SUPPRESSOR, DITEK #RM12NETS FOR (10) OUTDOOR CAMERAS- PROVIDED AND INSTALLED BY SSI.
- ⑥ NEW CAT 6 RJ45 (24) PORT PATCH PANEL BELDAN KCONN PP FLAT 24 1V WITH CAT6a PORTS PROVIDED AND INSTALLED BY EC.

Diagram illustrating the installation of the AXIS PARAPET KIT T91D62. The kit is mounted on a vertical structure labeled **PARAPET**. The components shown are:

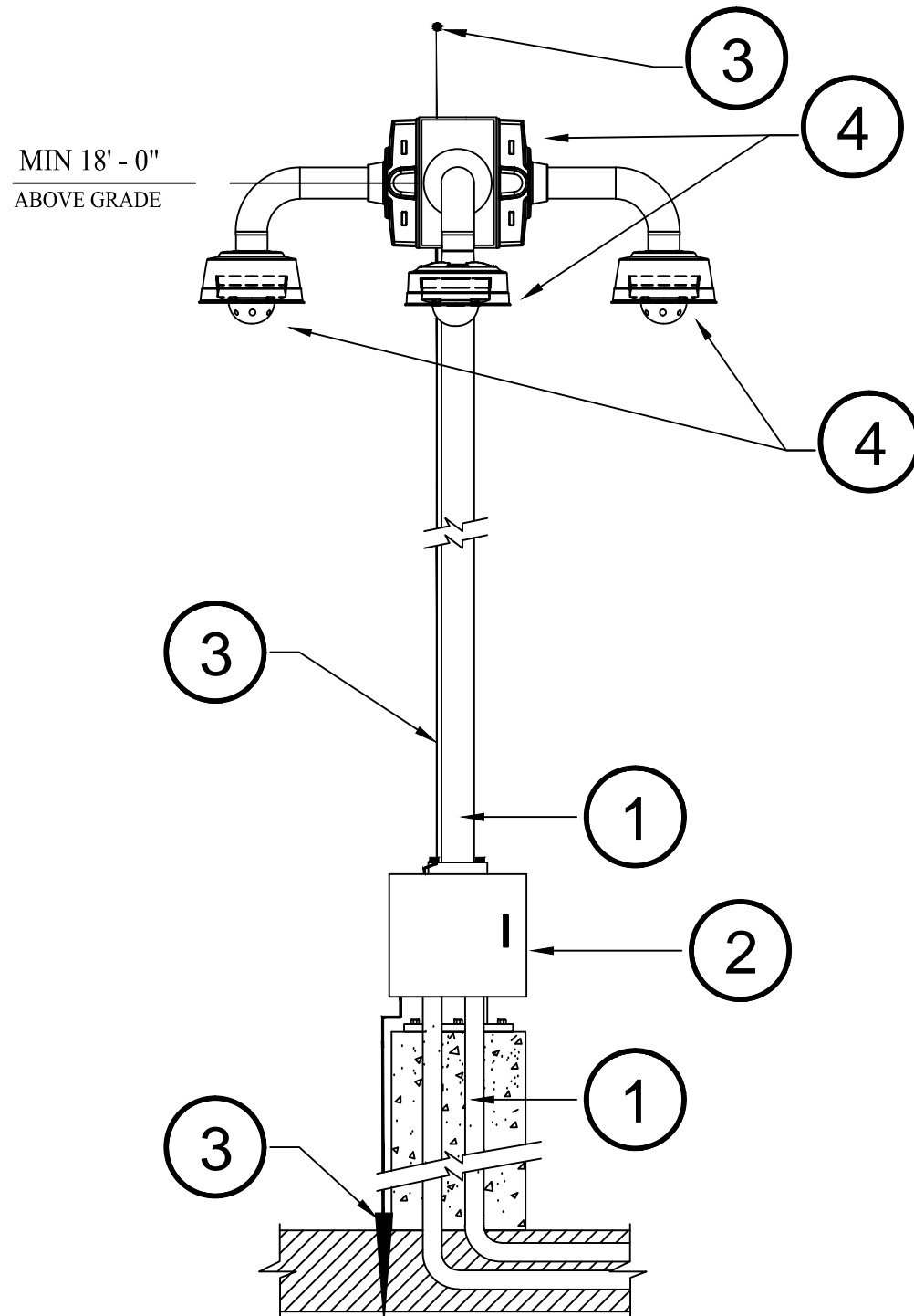
- AXIS COMMUNICATIONS PARAPET KIT T91D62**: The main mounting bracket assembly.
- AXIS T94VO2D PENDANT ADAPTER**: The adapter connecting the camera to the kit.
- P3807-PVE DOME CAMERA**: The camera unit mounted on the adapter.
- AXIS PARAPET KIT T91D62**: The main mounting bracket assembly (labeled again on the right side of the diagram).

PARAPET MOUNTED 180 DEGREE CAMERA



- 1 CAMERA BOX ENCLOSURE: SCE-24H2008SSLP 14X, STAINLESS STEEL BOX- WITH SUBPANEL SCE-24P20GALV GALVANNEALED, PROVIDED AND INSTALLED BY EC
- 2 POWER CONDUIT: UNDERGROUND CONDUIT FOR 120VAC POWER TO CAMERA BOX, PROVIDED AND INSTALLED BY EC
- 3 120 VAC POWER: FLEXIBLE METAL CONNECTION FOR 120 VAC POWER TO RECEPTACLES, PROVIDED AND INSTALLED BY EC- COORDINATION REQUIRED- EC TO INSTALL AFTER SSI BUILDS BACKPANEL IN SHOP
- 4 4"x4" SQUARE BOX W/ 120 VAC,20 AMP, DUPLEX RECEPTACLE AND STEEL COVER PROVIDED AND INSTALLED BY EC, COORDINATION REQUIRED- EC TO INSTALL AFTER SSI BUILDS BACKPANEL IN SHOP
- 5 COMMUNICATION CONDUIT- UNDERGROUND CONDUIT FOR 12-STRAND SMFO OSP FIBER PROVIDED AND INSTALLED BY EC
- 6 SMFO: 12-STRAND, OSP, SMFO WITH INNER DUCT CONNECTION TO PATCH PANEL, PROVIDED AND INSTALLED BY EC
- 7 PATCH PANEL: CORNING #SPH-OP-CLDRD WITH CORNING #CCH-CP12-A9 OS2, 12F, UPC, LC ADAPTORS PROVIDED AND INSTALLED BY SSI. THE SSI SHALL TURN THE LC ADAPTOR OVER TO THE EC WHO WILL PROVIDE ALL SMFO INSTALLATION, TIPPING AND TESTING- COORDINATION IS REQUIRED
- 8 UPS: EMERSON SOLAHD #SDU850B, 510 W UPS WITH #SDUEDC DINRAIL CLIP AND #SDUECATCARD NETWORK CARD PROVIDED AND INSTALLED BY SSI
- 9 UPS POWER: (4) SQUARE BOX WITH 120 VAC, 15 AMP DUPLEX RECEPTACLE, FOR UPS POWER, PROVIDED AND INSTALLED BY SSI
- 10 24 VDC POWER SUPPLY: MIN, 240W, 24 VDC, DINRAIL MOUNTED POWER SUPPLY #SDR-240 PROVIDED AND INSTALLED BY SSI
- 11 NETWORK SWITCH: ANTAIRA 7-PORT, GIGABIT, PoE+ UNMANAGED ETHERNET SWITCH, #LNP-0702G-SFP, PROVIDED AND INSTALLED BY SSI. SSI SHALL ALSO PROVIDE, INSTALL AND CONNECT, TYPE LC SFP MODULES AT BOTH ENDS OF THE SMFO
- 12 MIDSPAN: WHEN A "SPACESHIP" CAMERA IS PRESENT, THE SSI SHALL PROVIDE AND INSTALL AN AXIS 90W MIDSPAN PoE INJECTOR, PROVIDED AND INSTALLED BY SSI
- 13 SURGE: ALL OUTDOOR CAMERAS CAT 6a CABLES SHALL LAND ON ETHERNET PoE RATED SURGE PROTECTORS UPON ENTERING THE ENCLOSURE DITEK #DTK-WMANETS PROVIDED AND INSTALLED BY SSI
- 14 SMFO PATCH CABLES: SSI SHALL PROVIDE AND INSTALL FACTORY-MADE SMFO PATCH CABLES
- 15 CAT 6a PATCH CABLES: SSI SHALL PROVIDE AND INSTALL ALL REQUIRED PURPLE CAT 6a PATCH CABLES
- 16 CAMERA CONNECTIONS: SSI SHALL PROVIDE AND INSTALL ALL REQUIRED CONDUIT, STRAPS, HARDWARE AND CONNECTIONS REQUIRED TO FEED EACH CAMERA WITH PURPLE CAT6a OUTDOOR NETWORK CABLES
- 17 120 UPS POWER TO WAP, PROVIDED AND INSTALLED BY NETWORK CONTRACTOR
- 18 SMFO TO WAP, PROVIDED AND INSTALLED BY NETWORK CONTRACTOR

CAMERA BOX
SCALE: 3" = 1'-0"



- 1 NEW SONOTUBE BASE WITH EMBEDDED UNDERGROUND PVC POWER AND COMMUNICATIONS CONDUITS AND NEW VIDEOALARM P1800TB- POLE PROVIDED BY AND INSTALLED BY EC.
- 2 NEW CAMERA ENCLOSURE #SCE-24H2008SSLP 14X STAINLESS STEEL WITH INTERNAL SUB PANEL, PROVIDED AND INSTALLED BY EC. REFER TO CAMERA BOX DETAIL SHEET CD-2 DETAIL #2 FOR MORE INFORMATION.
- 3 NEW #4/O AWG GROUNDING WIRE CONNECTED TO LIGHTNING ROD AND IN-GROUND GROUNDING ROD, PROVIDED AND INSTALLED BY THE EC.
- 4 NEW POLE-MOUNTED HANWAH OUTDOOR CAMERAS WITH HANWAH POLE MOUNTS AS REQUIRED ON DRAWINGS. RUN OUTDOOR CAT6a NETWORK CABLES IN POLE BETWEEN CAMERA BOX AND CAMERA. PROVIDED AND INSTALLED BY SSI.

NEW CAMERAS ON NEW POLE
(TWO LOCATIONS)
SCALE: NTS

- NOTES
- 1) SSI CONTRACTOR SHALL MOUNT IP NETWORK CAMERAS AT OPTIMAL HEIGHT AND ANGLE TO PROVIDE BEST COVERAGE.
- 2) COORDINATION REQUIRED BETWEEN EC AND SSI.
- 3) REFER TO CAMERA BOX DETAIL ON SHEET C-D-2 DETAIL #2

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DETAILS 2

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