

GENERAL NOTES

- THESE DRAWINGS DESCRIBE THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF TELECOMMUNICATIONS STRUCTURED CABLING SYSTEM, PUBLIC ADDRESS SYSTEM, AND SECURITY SYSTEM WITHIN THE FACILITIES OF KINGESSING LIBRARY & REC CENTER (KNGC). THE PROJECT INCLUDES FURNISHING, INSTALLATION AND TESTING OF THE COMPONENTS FOR THE OUTSIDE PLANT STRUCTURED CABLING AS DESCRIBED HEREIN AND IN THE SPECIFICATIONS.
- PRIOR TO ACCEPTANCE OF THE INSTALLATION, ALL SYSTEMS SHALL BE TESTED, AND OPERATED TO DEMONSTRATE TO THE OWNER, OR DESIGNATED REPRESENTATIVE, THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.
- CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE, DESIGN INTENT, AND GENERAL ARRANGEMENT ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES INCLUDING RESOLUTION OF FIELD CONFLICTS THAT MAY ARISE.
- CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE AND IDENTIFY ALL EXISTING UTILITIES AND CONDITIONS IN THE CONSTRUCTION AREA, WHETHER INDICATED ON DRAWINGS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO EXISTING UTILITIES, CABLES AND/OR FACILITIES DAMAGED DURING CONSTRUCTION, NO REIMBURSEMENT WILL BE ALLOWED FOR REPAIR AND/OR REPLACEMENT OF DAMAGED FACILITIES/UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF UNDERGROUND UTILITIES WHICH PASS THROUGH THE CONSTRUCTION AREA BUT ARE NOT PART OF THE CONSTRUCTION SCOPE OF WORK. THE CONTRACTOR SHALL ENSURE THESE CABLES ARE PROTECTED AND THE SYSTEMS STAY FUNCTIONAL TO WHICH THEY ARE CONNECTED.
- THE INTEGRATION OF EXISTING SYSTEMS IS WORK OF A COMPLEX NATURE WHICH WILL REQUIRE ACCURATE PLANNING, CAREFUL PREPARATION AND EXECUTION. ATTENTION TO DETAIL AND CLOSE SUPERVISION BY THE CONTRACTOR, THE CONTRACTOR SHALL BE REQUIRED TO DO THIS WORK IN FULL COOPERATION WITH ALL SYSTEM INTEGRATORS AND SUBJECT TO SCHEDULING ARRANGED TO MINIMIZE DISRUPTION OF NORMAL ACTIVITIES OF THE REST OF THE AIRPORT. PHASING OF ALL WORK SHALL BE DONE IN COORDINATION WITH THE CONSTRUCTION PHASING PLAN OR AS INSTRUCTED BY THE CM.
- ALL CABLING, VAULTS, DEVICES AND BOXES INSTALLED SHALL BE TAGGED AND/OR MARKED AS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- WHERE UTILITIES, SYSTEMS, SWITCHES, PANELS, POWER SUPPLIES, ROUTERS AND/OR SERVICES REQUIRE SHUTDOWN, IN THE MAIN TERMINAL, FOR THE WORK TO BE PERFORMED, NOTIFY THE CM AND OWNER. REQUESTS FOR SYSTEMS SHUTDOWNS SHALL BE SUBMITTED TO THE OWNER, IN WRITING, A MIN. OF 1 WEEK PRIOR TO THE SCHEDULED SHUTDOWN. THE REQUEST MUST INCLUDE ALL SYSTEMS TO BE AFFECTED AND THE EXPECTED DISRUPTION DURATIONS.
- ALL MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS AND APPLICABLE CONTRACT SPECIFICATIONS.
- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS, METHODS AND SERVICES REQUIRED TO INSTALL ALL WORK INDICATED COMPLETELY AND IN FULL OPERATION.
- ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST AND ALL APPLICABLE LAWS, CODES, AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE, FEDERAL, AUTHORITIES, UTILITY COMPANIES, INSURANCE AGENCIES AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK, INCLUDING CURRENT ENVIRONMENTAL REGULATIONS, AND SHALL COMPLY WITH THE APPLICABLE LOCAL ELECTRICAL CODES, LATEST ADOPTED EDITION OF THE NEC AND ANY APPLICABLE INDUSTRIAL CODES: NECA, NEC, NESC, NFPA, IEEE, ANSITIA, NORTH CAROLINA AND LOCAL CODES.
- THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR (OR AS CONTRACTUALLY OBLIGATED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM(S) AS A WHOLE. ANY DEFECTS IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER WORK OR PARTS OF THE BUILDING DAMAGED THEREBY, AS A RESULT OF WORK OF THE PROJECT BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PAY ALL REPAIR COSTS ACCORDINGLY WITHOUT ADDITIONAL COSTS TO THE OWNER.
- UNLESS OTHERWISE NOTED, ALL PARTS, EQUIPMENT, AND MATERIALS SHALL BE NEW AND SHALL BE SAME AND/OR UL APPROVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING CABLING. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR FURNISHING AND INSTALLING CONDUIT FROM ALL EQUIPMENT DEVICE LOCATIONS TO DESIGNATED TERMINATION ROOMS. ALL NEW CABLING SHALL BE INSTALLED IN CONDUIT UNLESS OTHERWISE NOTED.
- ALL OSP CABLING SHALL BE INSTALLED IN CONCRETE ENCASED SCHEDULE 40 PVC OR RGS CONDUIT AS INDICATED IN DRAWINGS AND SPECS AND IN FABRIC INNERDUCT, ALL VERTICAL ELBOWS AND TRANSITIONS FROM UNDERGROUND TO ABOVE GROUND SHALL BE RGS. ALL SPARE CONDUITS SHALL CONTAIN FABRIC INTERDUCT AND/OR A PULL STRING AS INDICATED. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT SHARE A PHYSICAL PATHWAY.
- CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT AS INDICATED ON THE PLANS.
- INSTALLATION OF CATEGORY 6A CABLE SHALL BE IN ACCORDANCE WITH TIA GUIDELINES. CABLE INSTALLATION AND TERMINATIONS THAT DO NOT COMPLY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - THE MAXIMUM PULLING TENSION FOR A SINGLE CABLE SHALL NOT EXCEED 25 POUNDS.
 - THE MINIMUM BENDING RADIUS OF THE CABLE SHALL NOT BE LESS THAN 4X THE OUTSIDE DIAMETER OF THE CABLE.
 - THE CABLE SHALL BE INSTALLED WITHOUT KINKS OR TWISTS AND THE APPLICATION OF CABLE TIES SHALL NOT DEFORM THE CABLE BUNDLE. CONDUITS SHALL TRANSITION INTO CABLE TRAYS USING CONDUIT END BELLS. NO CABLE SHALL BE INSTALLED OVER ROUGH CONDUIT EDGES IN ANY TRANSITION.
 - STRIP BACK ONLY AS MUCH CABLE JACKET AS IS REQUIRED TO TERMINATE THE CABLE. CABLE PAIRS SHALL NOT BE UNTWISTED MORE THAN 1/2 INCH.
 - CABLES SHALL BE TESTED PER THE SPECIFICATIONS, CABLES WHICH DO NOT PASS TESTS SHALL BE REPLACED, OR RECTIFIED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL NOT INSTALL ANY NEW CATEGORY 6A OR HIGHER DATA CABLE AT LENGTHS GREATER THAN 90 METERS FROM PATCH PANEL TO OUTLET BOX. THE CONTRACTOR SHALL BRING ANY CONDITIONS EXCEEDING THE CABLE LIMIT DISTANCE TO THE ENGINEERS ATTENTION.
- INSTALLATION OF FIBER OPTIC CABLES SHALL BE IN ACCORDANCE WITH TIA GUIDELINES. CABLE INSTALLATION AND TERMINATIONS THAT DO NOT COMPLY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - THE BEND RADIUS FOR HORIZONTAL OPTICAL FIBER CABLE SHALL NOT BE LESS THAN 1 INCH UNDER NO-LOAD CONDITIONS. WHEN UNDER A MAXIMUM TENSILE LOAD OF 50 LBF, THE BEND RADIUS SHALL NOT BE LESS THAN 2 INCHES.
 - THE BEND RADIUS FOR FIBER BACKBONE SHALL NOT BE LESS THAN THAT RECOMMENDED BY THE MANUFACTURER IF NO RECOMMENDATION IS KNOWN, THEN THE APPLIED BEND RADIUS SHALL NOT BE LESS THAN 12 TIMES THE CABLE OUTSIDE DIAMETER UNDER NO-LOAD CONDITIONS AND NOT LESS THAN 15 TIMES THE CABLE OUTSIDE DIAMETER WHEN THE CABLE IS UNDER TENSILE LOAD.
 - THE BEND RADIUS FOR OUTSIDE PLANT OPTICAL FIBER BACKBONE CABLE SHALL NOT BE LESS THAN THAT RECOMMENDED BY THE MANUFACTURER IF NO RECOMMENDATION IS KNOWN, THEN THE APPLIED BEND RADIUS SHALL NOT BE LESS THAN 10 TIMES THE CABLE OUTSIDE DIAMETER NO-LOAD CONDITIONS AND NOT LESS THAN 20 TIMES THE CABLE OUTSIDE DIAMETER WHEN THE CABLE IS UNDER A TENSILE LOAD.
- ALL OUTSIDE PLANT COPPER CABLES SHALL INCLUDE A MINIMUM OF TWO SERVICE LOOPS IN ALL VAULTS, MANHOLES, HANDHOLES OR JUNCTION BOXES EQUIVALENT TO TWO PERIMETERS OF THE STRUCTURE THE CABLE IS PASSING THROUGH, UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR TO COORDINATE ALL UNDERGROUND UTILITY ROUTINGS. KEEP A MINIMUM OF 6-IN CLEAR FROM ALL FOUNDATIONS IN PLAN.
- CONTRACTOR TO COORDINATE UNDERGROUND UTILITY TO BE A MINIMUM OF 3" CLEAR BELOW THE BASE OF THE GRADE BEAMS WHEN PASSING BENEATH.

ABBREVIATIONS:

AC	ALTERNATE CURRENT
ACP	ACCESS CONTROL PANEL
ACS	ACCESS CONTROL SYSTEM
AFG	ABOVE FINISHED GRADE
AMP	AMPLIFIER
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISH CEILING
BHS	BAGGAGE HANDLING SYSTEM
C	CONDUIT
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED CENTER LINE
CL	CLEAR
CLR	CONSTRUCTION MANAGER
CM	CONSTRUCTION MANAGER
CMR	PLENUM CABLE RISER CABLE
CT	CABLE TRAY
CV	COMMUNICATIONS VAULT
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
EMT	ELECTRICAL METALLIC TUBING
FLP	FREE LIBRARY OF PHILADELPHIA
FOC	FIBER OPTIC CABLE
FOPP	FIBER OPTIC PATCH PANEL
G.C.	GENERAL CONTRACTOR
GRND	GROUND
GT	GROUND TRANSPORTATION HORIZONTAL(LY)
HORIZ	IDENTIFICATION
ID	INSULATION DISPLACEMENT CONTACT
IDC	INTERMEDIATE DISTRIBUTION FRAME
IDF	INSIDE PLANT CABLE
ISP	INFORMATION TECHNOLOGY
IT	INFORMATION TECHNOLOGY
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MIN	MINIMUM
NTS	NOT TO SCALE
NEC	NATIONAL ELECTRIC CODE
OFPI	OWNER FURNISHED OWNER INSTALLED
OSP	OUTSIDE PLANT CABLE
PBB	PASSENGER BOARDING BRIDGE
PG	PASSENGER GATE
RGS	RIGID GALVANIZED STEEL
SOC	SYSTEM ON CHIP
SCS	STRUCTURED CABLING SYSTEM
SMFO	SINGLE MODE FIBER OPTIC CABLE
STP	SHIELDED TWISTED PAIR
SUSP	SUSPENDED
T	TERMINAL
TBD	TO BE DETERMINED
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TO	TELECOMMUNICATION OUTLET
TR	TELECOMMUNICATIONS ROOM
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VG	VEHICLE GATE
WI	WITH
WF	WALL FIELD

OUTLET: TYPES & CABLING

SYMBOL	DESCRIPTION
	DATA OUTLET # DENOTES THE NUMBER OF CABLES. IF BLANK, OUTLET IS FOR FUTURE FLEXIBILITY AND NUMBER OF CABLES IS ZERO.
	POWER/DATA FLOOR BOX REFER TO ELECTRICAL DRAWINGS FOR FLOOR BOX DETAILS.

OUTLET: MOUNTING LEGEND

SYMBOL	DESCRIPTION
	WALL MOUNTED OUTLET PROVIDE A 4-11/16"W x 4-11/16"H x 2 1/2" DEEP DOUBLE GANG BACK BOX, DOUBLE GANG PLASTER RING. ALL CABLING TO OUTLET MUST BE IN CONDUIT OR CABLE TRAY.
	CEILING MOUNTED OUTLET PROVIDE A 4-11/16"W x 4-11/16"H x 2 1/2" DEEP DOUBLE GANG BACK BOX, DOUBLE GANG PLASTER RING. ALL CABLING TO OUTLET MUST BE IN CONDUIT OR CABLE TRAY. OUTLET SHALL BE MOUNTED ON UNDERSIDE OF STRUCTURE UON.

OUTLET: SYSTEM ID LEGEND

ID (X)	DESCRIPTION
(NONE)	STANDARD DATA OUTLET PROVIDE 4-PAIR UTP CATEGORY 6A CABLES X = DENOTES CABLE QTY.
AP	WIRELESS ACCESS POINT (OWNER PROVIDED) PROVIDE (1) 4-PAIR UTP CATEGORY 6A CABLES, UON. MOUNTING REQUIREMENTS - CEILING: ON NEAREST STRUCTURAL ELEMENT ABOVE ACCESSIBLE CEILINGS - WALL: AT 1' 0" BFC TYPICAL BUT NOT MORE THAN 10' 0" AFF.
CCTV	CLOSED-CIRCUIT TELEVISION REFER TO SECURITY DRAWINGS FOR LOCATIONS, QUANTITIES AND MOUNTING DETAILS PROVIDE (1) 4-PAIR UTP CATEGORY 6 CABLE, UON. MOUNTING REQUIREMENTS - CEILING: ON NEAREST STRUCTURAL ELEMENT ABOVE ACCESSIBLE CEILINGS - WALL: AT 1' 0" BFC TYPICAL BUT NOT MORE THAN 10' 0" AFF.

PATHWAYS & MISCELLANEOUS

SYMBOL	DESCRIPTION
	DETAIL REFERENCE: # = DETAIL NUMBER; TXXX = DRAWING NUMBER
	LADDER STYLE CABLE TRAY
	CONDUIT OR SLEEVE GOING UP
	CONDUIT OR SLEEVE GOING DOWN
	CONDUIT GOING THROUGH
	TELECOM SPACES/ROOM OUTLINE
	PULL BOX LL = LOWER LEVEL FF = FIRST FLOOR
	ELEVATOR CALL BOX
	INTERCOM MASTER MONITOR STATION
	PROVIDE 4X4 EXTERIOR WEATHERPROOF JUNCTION BOX, XX DEFINES SYSTEM, PROVIDE RJ-45 CONNECTOR ON END OF CABLE AND PROVIDE MIN 36" OF SLACK.

AV SYMBOLS

SYMBOL	DESCRIPTION
	WALL MOUNTED AV SPEAKER. SPEAKERS WILL BE CONNECTED IN SERIES WITH MIN 18/2 SHIELDED CABLE IN FMC WITH ONE 18/2 CABLE HOMERUN TO AMPLIFIER IN MIN 3/4" CONDUIT

SECURITY SYMBOLS

SYMBOL	DESCRIPTION
	FIXED IP CCTV CAMERA. REFER TO SPECIFICATION 282300 FOR CAMERA DETAILS (UNLESS OTHERWISE NOTED).

REVISIONS

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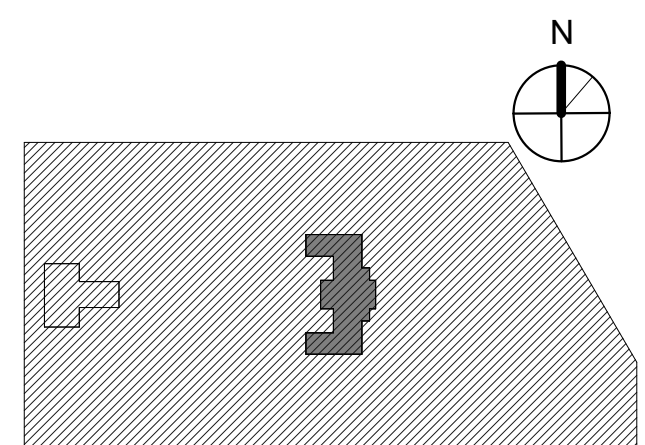


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KINGESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE

TELECOM GENERAL NOTES, ABBREVIATIONS & SYMBOLS

PROJECT NO.

21070

DRAWING NO.

T-001-R

DATE

06/28/23

SCALE

12" = 1'-0"

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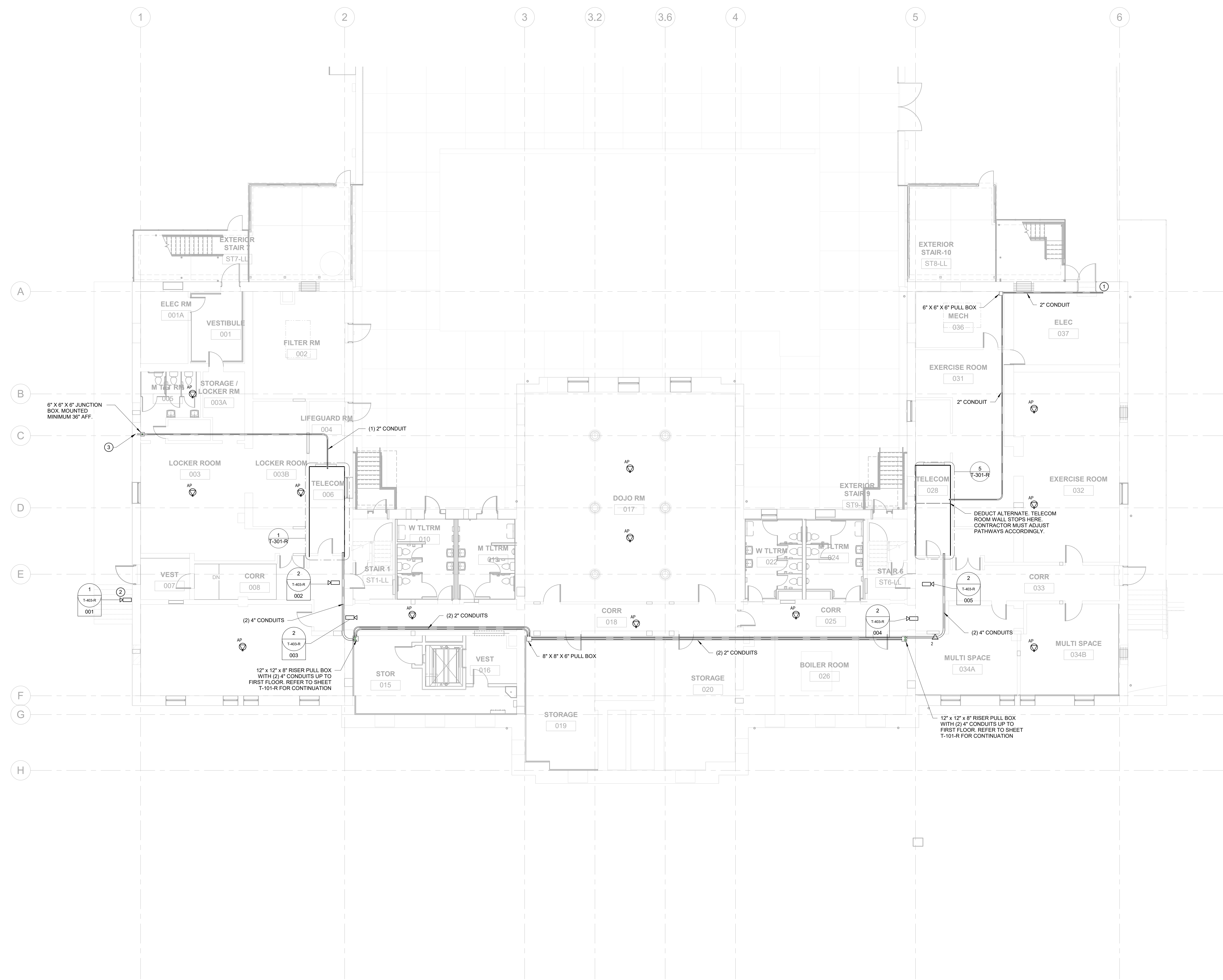
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NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23



- GENERAL NOTES:**
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 - CONTRACTOR MUST PROTECT AND PRESERVE THE HISTORIC ELEMENTS AND STRUCTURES WHEN INSTALLING NEW PATHWAYS AND DEVICES. REFER TO ARCHITECT PLANS FOR ADDITIONAL DETAILS.
 - PROVIDE SURFACE MOUNTED RACEWAYS FOR BRANCH CONNECTIONS. ACCEPTABLE RACEWAYS ARE SERIES 4000 WIREMOLD OR CONDUIT.
 - AV SYSTEM EQUIPMENT FURNISHED AND INSTALLED BY OWNER.

- KEYED NOTES:** (P)
- EXISTING COMMUNICATIONS DEMARC.
 - EXTERIOR CAMERA. PROVIDE EXTERIOR HOUSING FOR CAMERA.
 - SEE 1/T-104-R FOR CONTINUATION.

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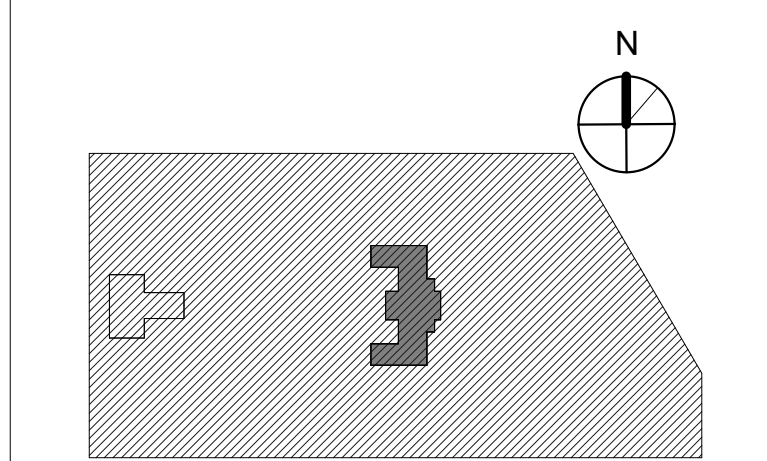


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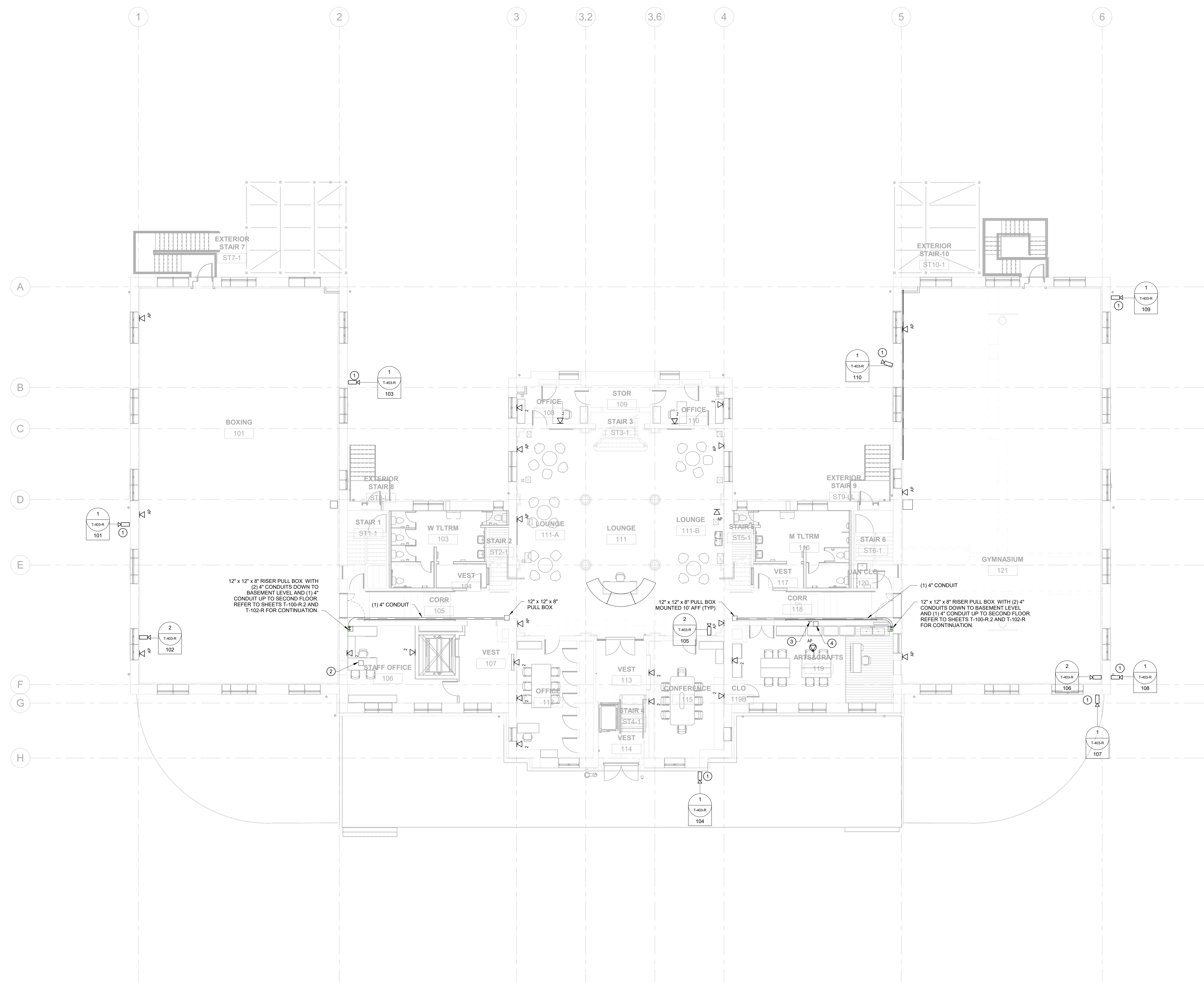
DRAWING TITLE
TELECOM PROPOSED - LOWER LEVEL

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TELECOM PROPOSED - REC CENTER
LOWER LEVEL
1/8" = 1'-0"

PACKAGE 2 - IFB
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08/28/23



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 - PROVIDE SURFACE MOUNTED RACEWAYS FOR BRANCH CONNECTIONS. ACCEPTABLE RACEWAYS ARE SERIES 4000 WIREMOLD OR CONDUIT.
 - AV SYSTEM EQUIPMENT FURNISHED AND INSTALLED BY OWNER.
 - CONTRACTOR TO INSTALL WALL MOUNTED DEVICES ABOVE CROWN MOLDING.

- KEYED NOTES: (1)**
- EXTERIOR CAMERA. PROVIDE EXTERIOR HOUSING FOR CAMERA.
 - NEW CONTRACTOR FURNISHED CONTRACTOR INSTALLED VIDEO MONITORING WORKSTATION.
 - EXISTING SECURITY WORKSTATION TO BE DEMOLISHED.
 - EXISTING SECURITY CABINET TO BE DEMOLISHED. CONTRACTOR REMOVE EXISTING SECURITY EQUIPMENT AND RETURN TO OWNER.

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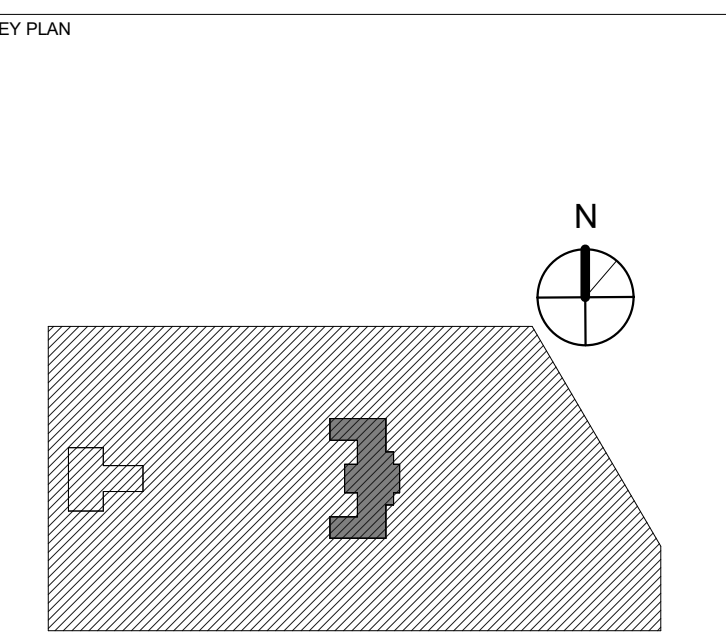
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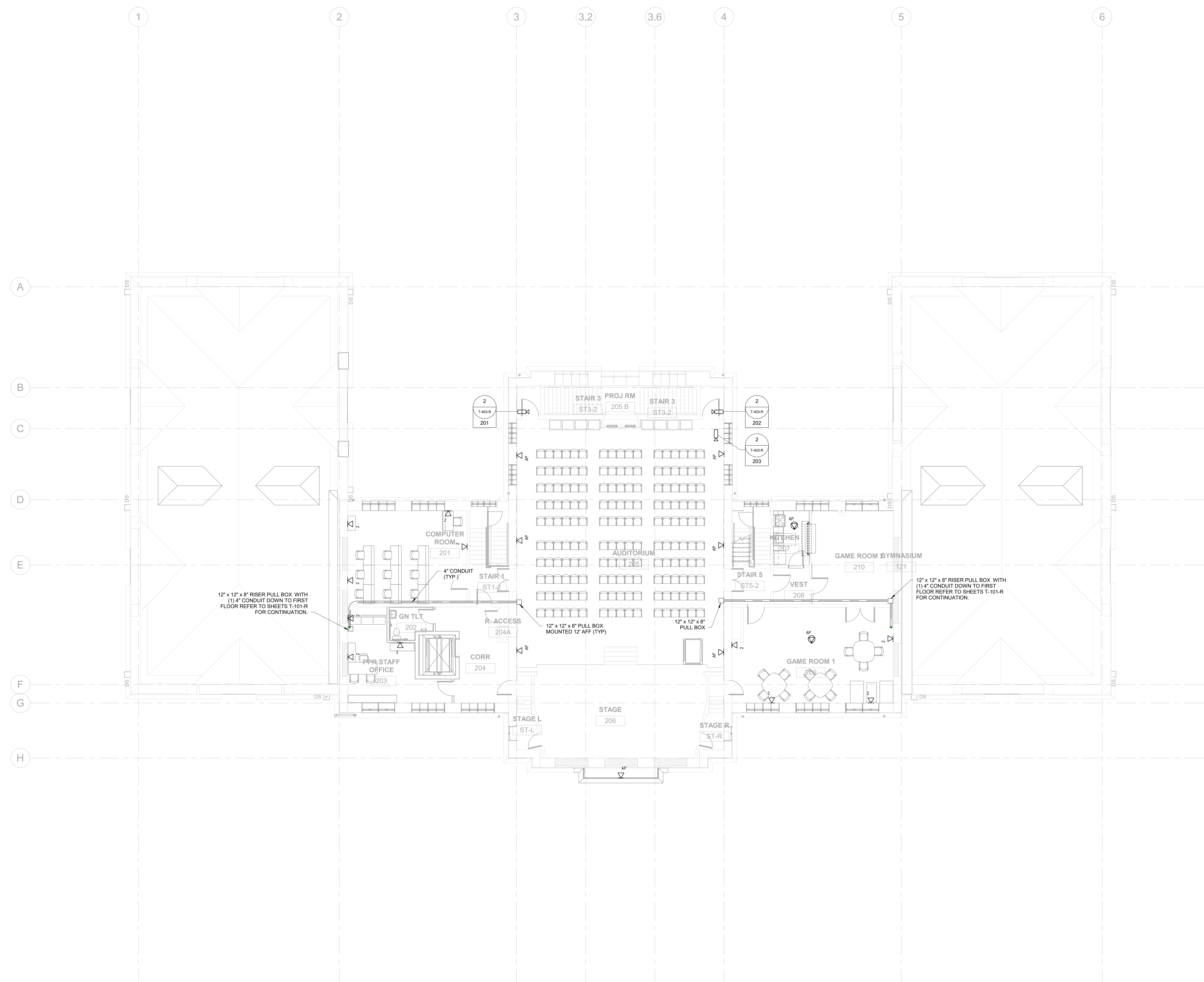
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TELECOM PROPOSED - FIRST FLOOR

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SCALE 1/8" = 1'-0"	
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PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
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TELECOM PROPOSED - REC CENTER
FIRST FLOOR
1/8" = 1'-0"

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TELECOM PROPOSED - REC CENTER
 SECOND FLOOR
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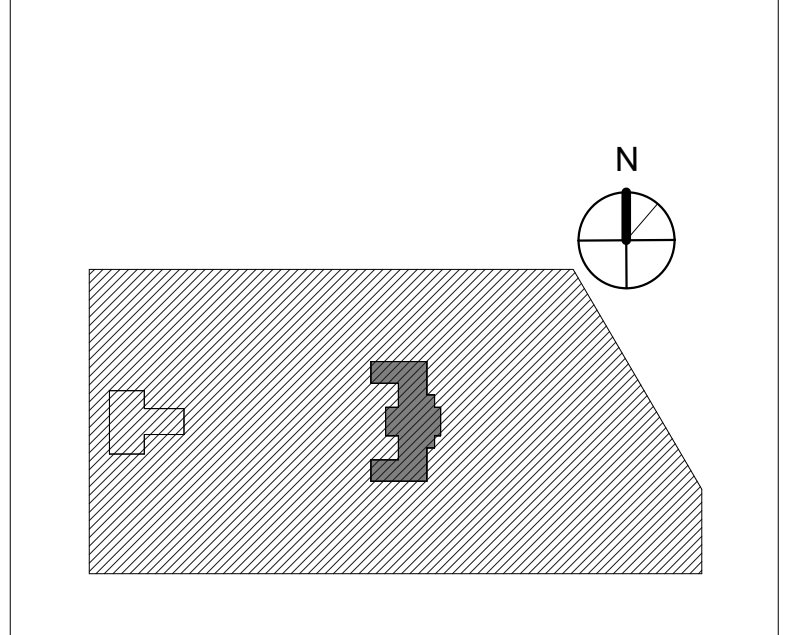
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DRAWING TITLE
TELECOM PROPOSED - SECOND FLOOR

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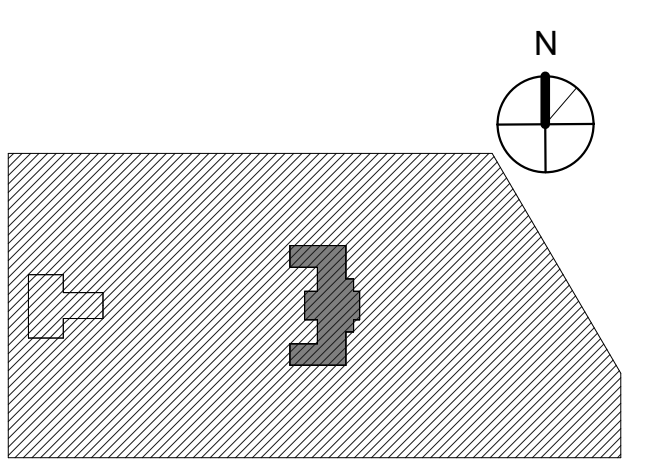


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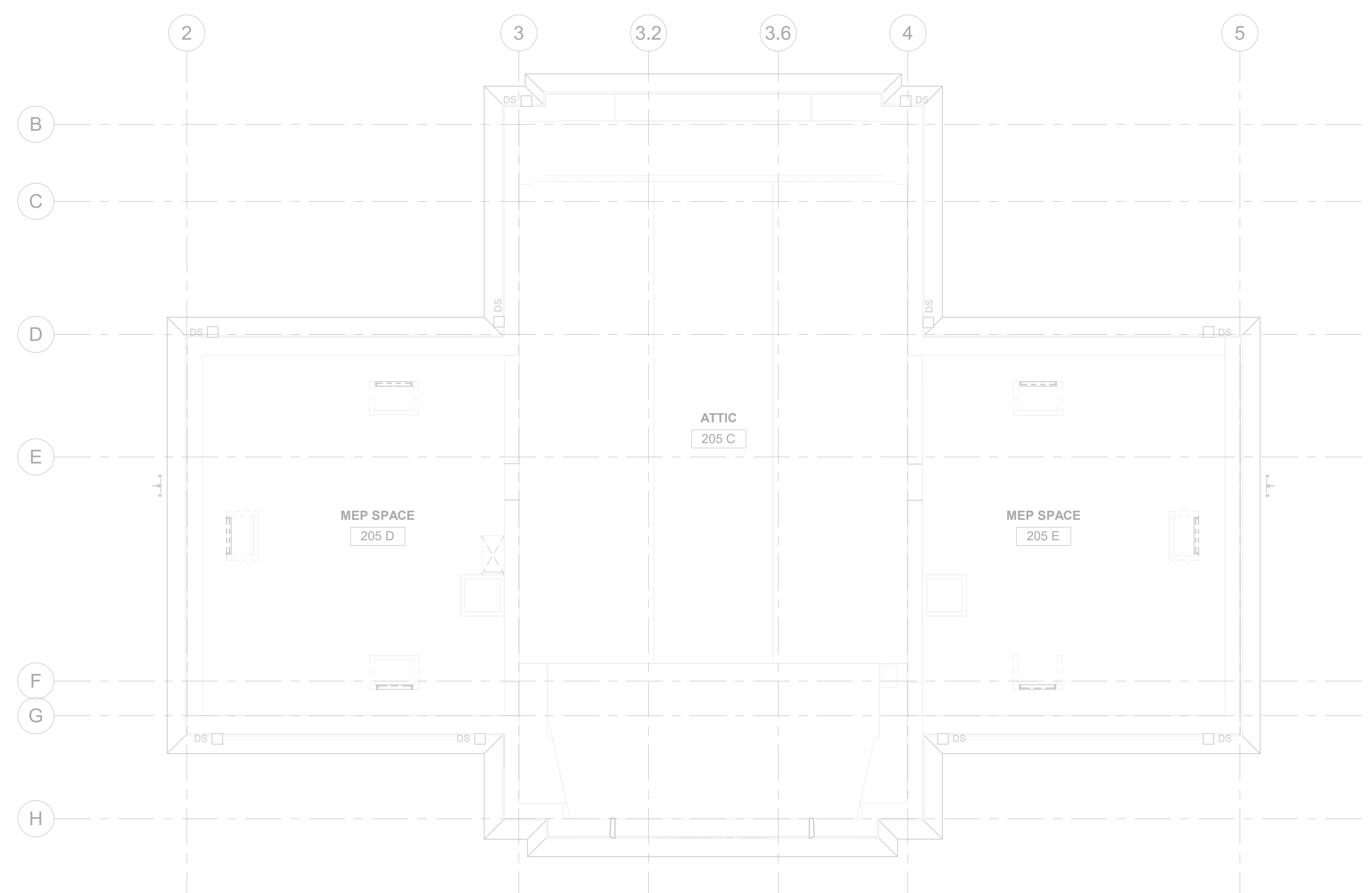
KEY PLAN



DRAWING TITLE
TELECOM PROPOSED - ATTIC

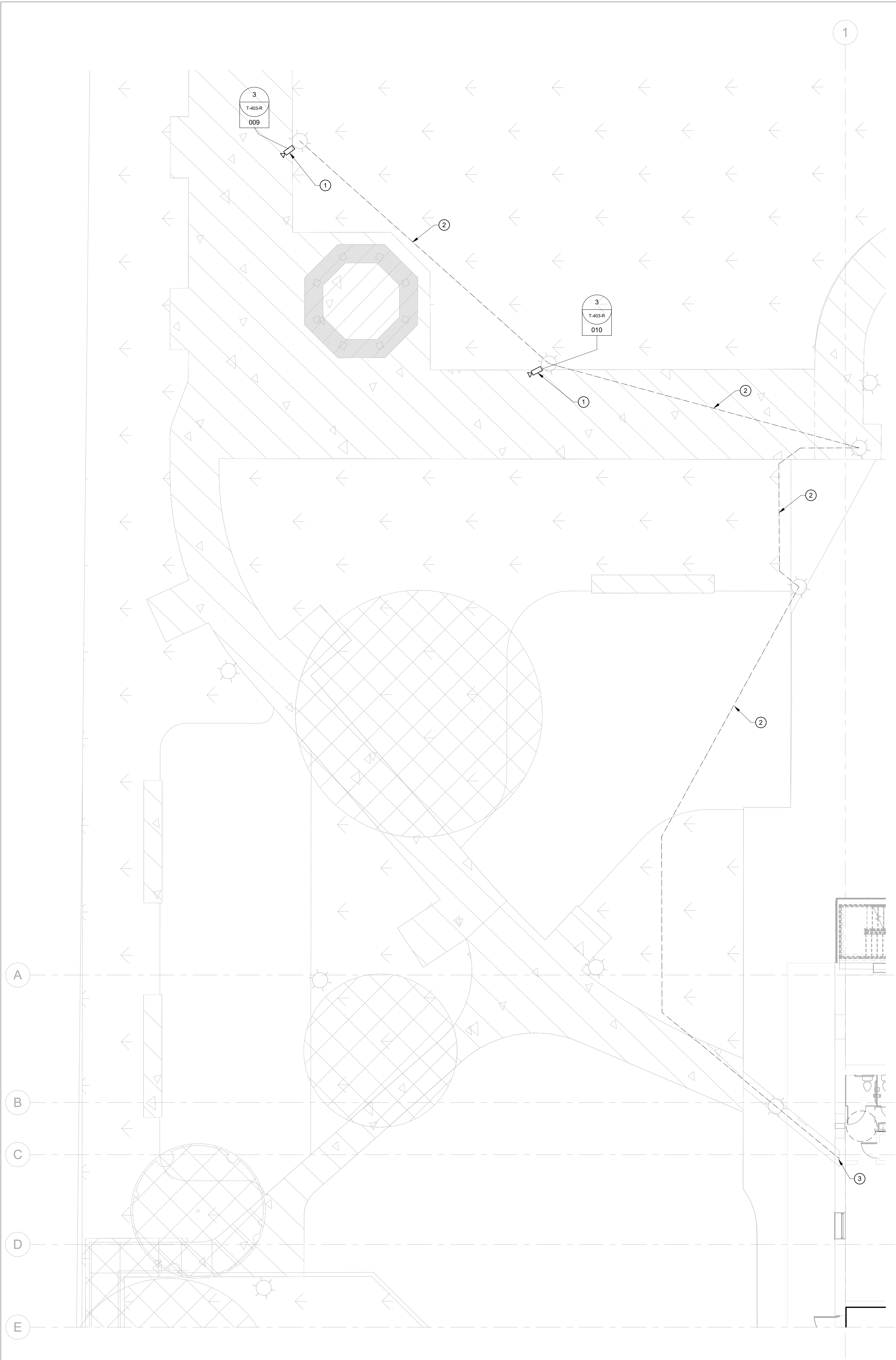
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CHECKED BY DS	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

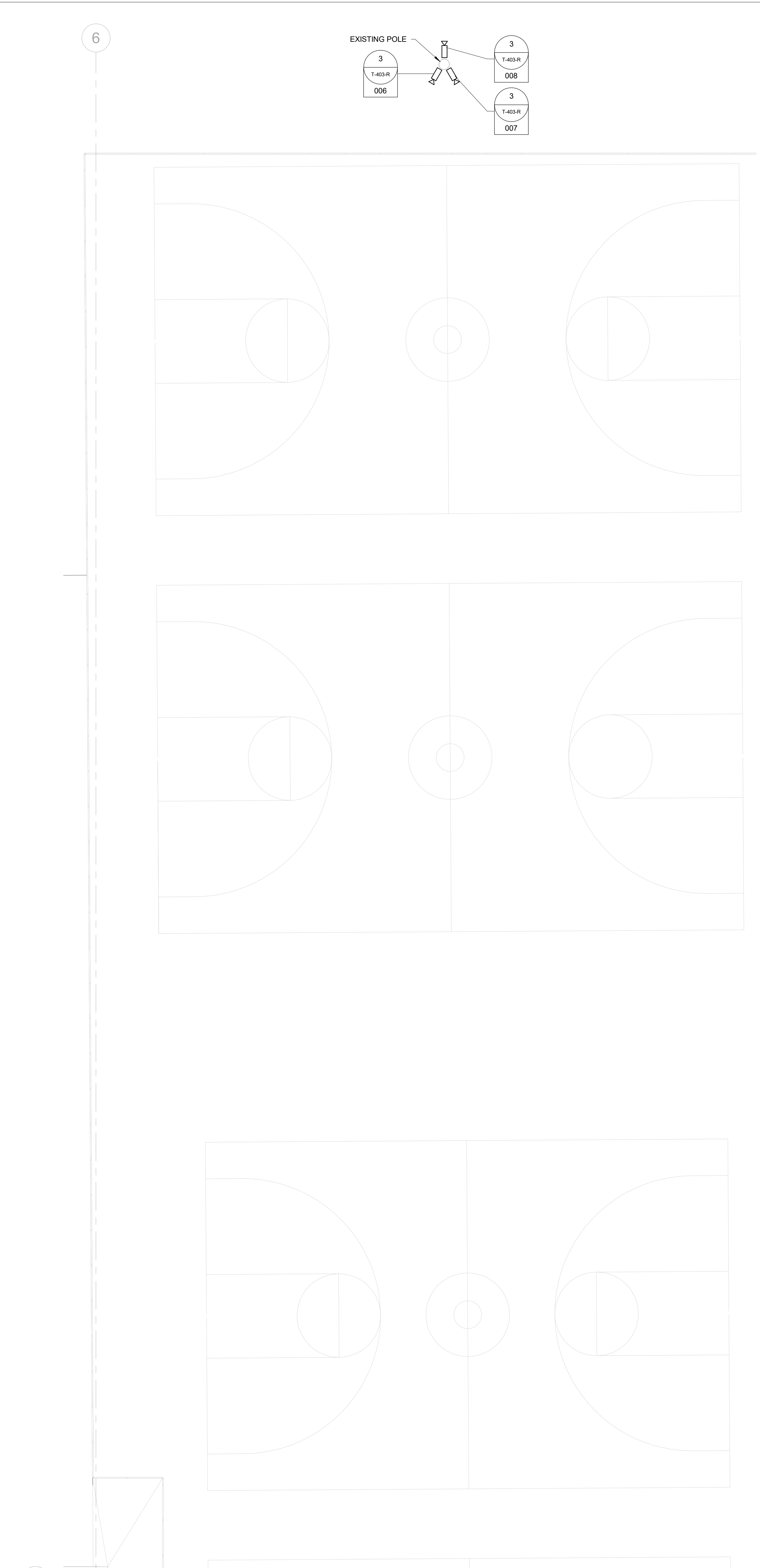


TELECOM PROPOSED - REC CENTER
ATTIC
1/8" = 1'-0"

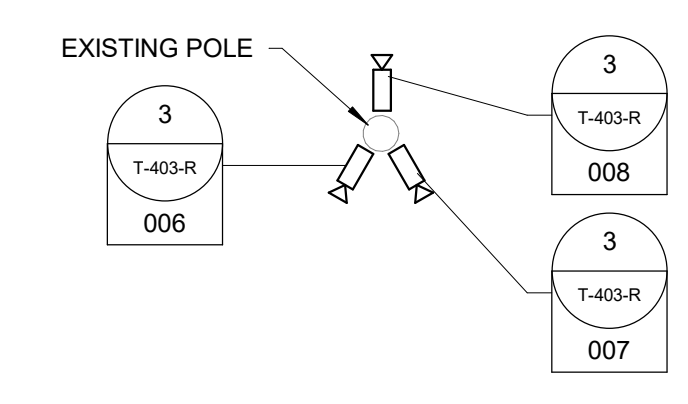
PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23



TELECOM PROPOSED - REC CENTER
 1 SITE PARTIAL PLAN WEST
 1/8" = 1'-0"



TELECOM PROPOSED - REC CENTER
 2 SITE PARTIAL PLAN EAST
 1/8" = 1'-0"



- GENERAL NOTES:**
- UNLESS OTHERWISE NOTED DEVICES SHOWN ARE CONTRACTOR FURNISHED CONTRACTOR INSTALLED (CFI).
 - CONTRACTOR MUST PROTECT AND PRESERVE THE HISTORIC ELEMENTS AND STRUCTURES WHEN INSTALLING NEW PATHWAYS AND DEVICES. REFER TO ARCHITECT PLANS FOR ADDITIONAL DETAILS.
- KEYED NOTES: (2)**
- PROVIDE AND INSTALL AXIS P22674-VE OUTDOOR CAMERA AND COMPATIBLE MOUNTING ACCESSORIES TO LIGHT POLE. REFER TO SHEET L501-R-2 DETAIL 6 FOR LIGHT POLE DETAILS. CAMERA MOUNTING HEIGHT IS 13 FEET ABOVE GROUND. IF CABLE LENGTH EXCEEDS 295 FEET PROVIDE AXIS T8129-E POE EXTENDER. PROVIDE RUN OUTDOOR RATED CAT 6 CABLE AND RJ-45 JACKS FROM CAMERA TO NEAREST TELECOM ROOM.
 - PROVIDE (1) 2" PVC UNDERGROUND CONDUIT, RUN ADJACENT TO POWER CONDUIT. RUN 6" AWAY FROM POWER CONDUIT.
 - SEE T-100-R.2 FOR CONTINUATION.

REVISIONS		
ISSUE	DATE	DESCRIPTION



REVIEWED BY: _____
 PROJECT COORDINATOR _____
 SEALS _____



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PROJECT TITLE
**KINGSSESSING RECREATION
 CENTER BUILDING AND SITE
 IMPROVEMENTS**

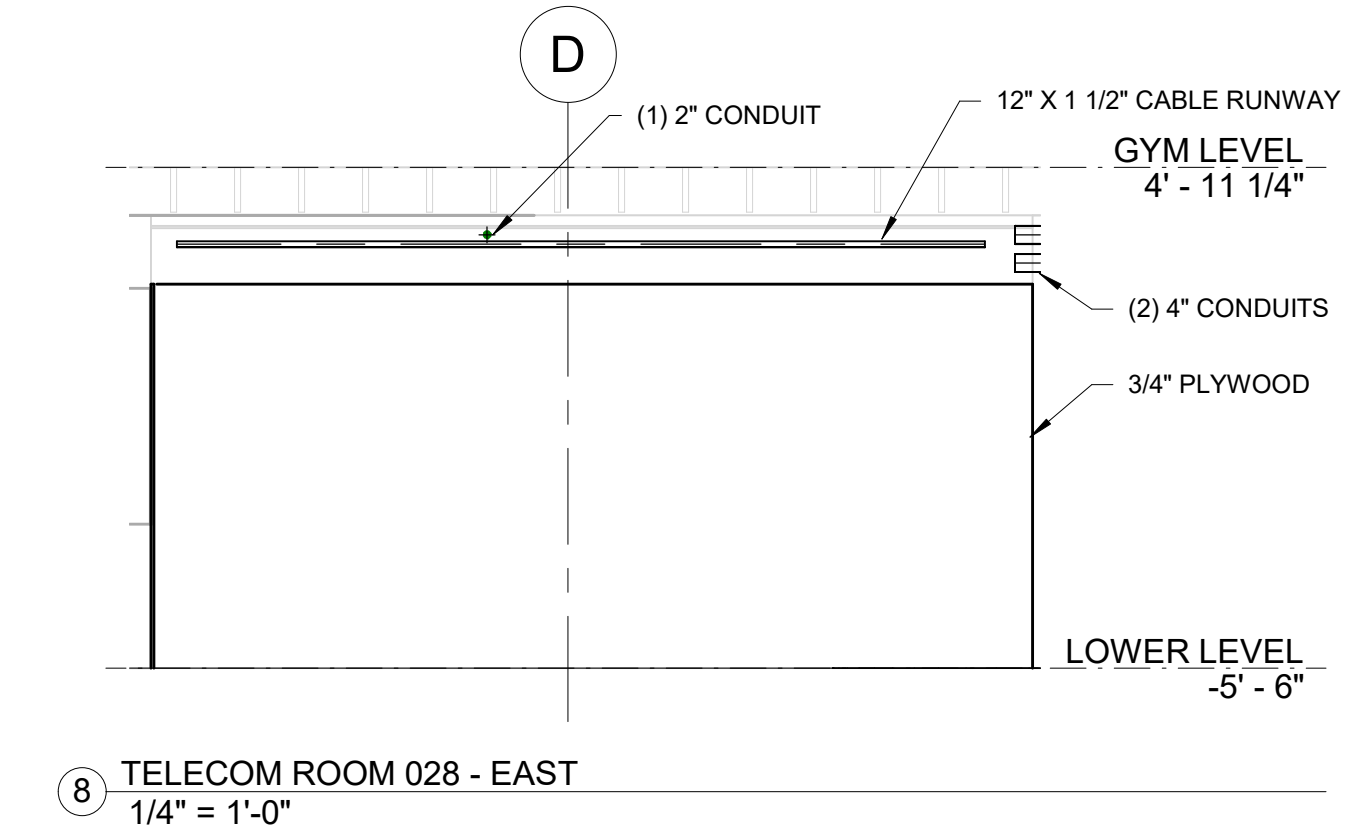
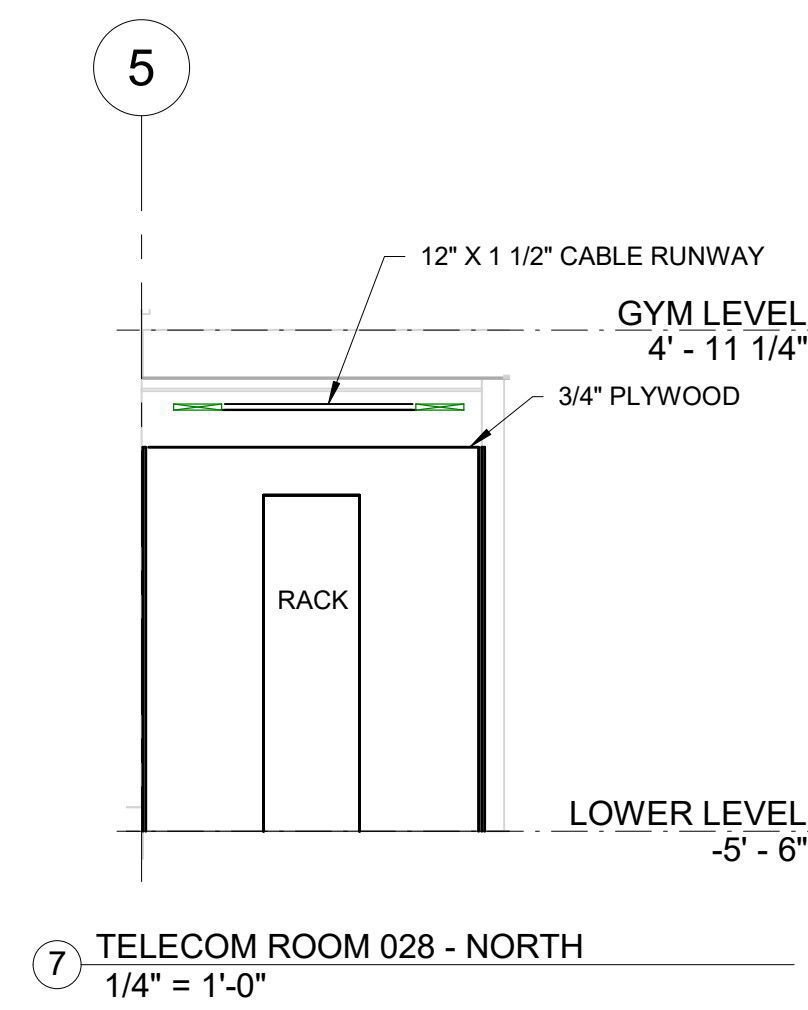
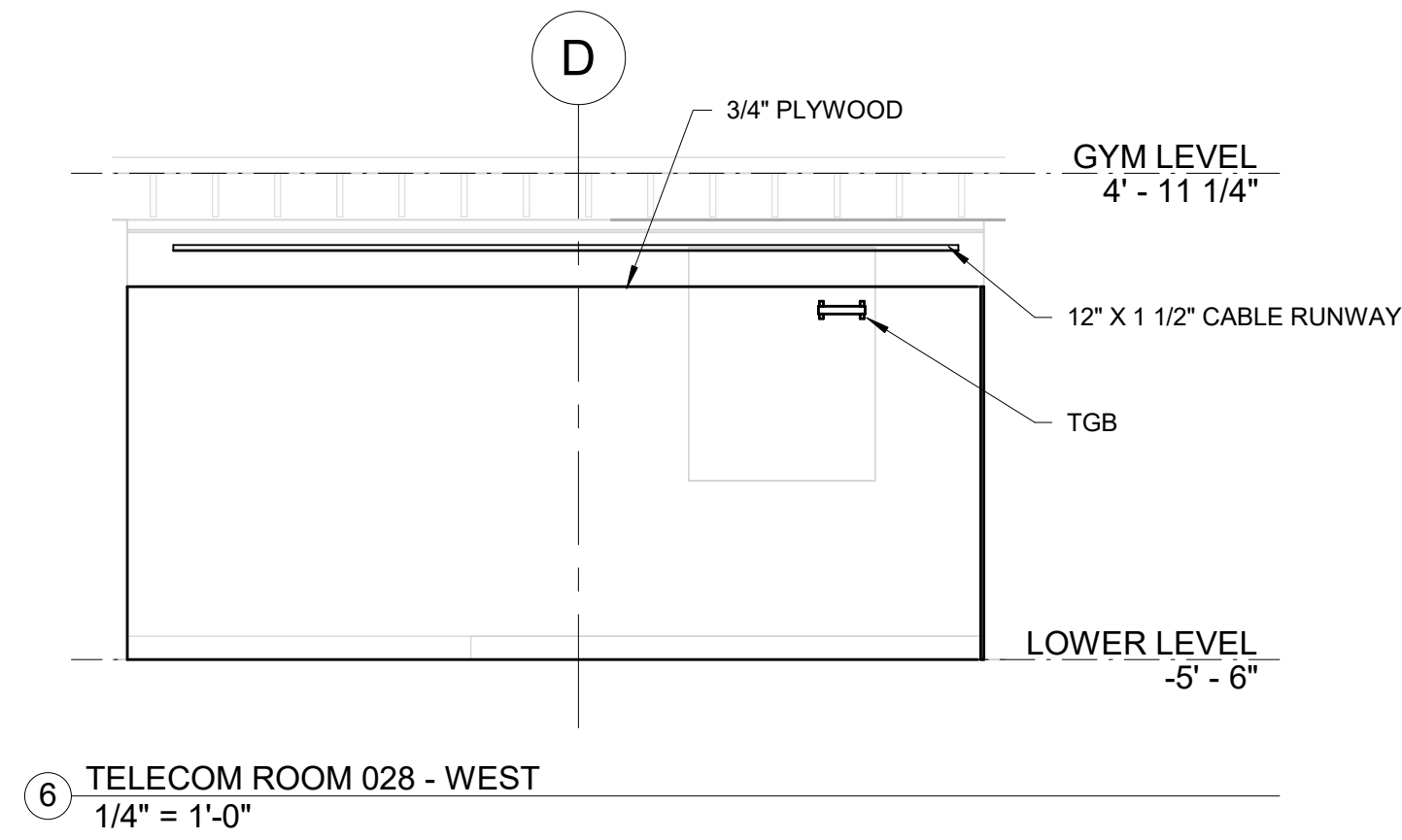
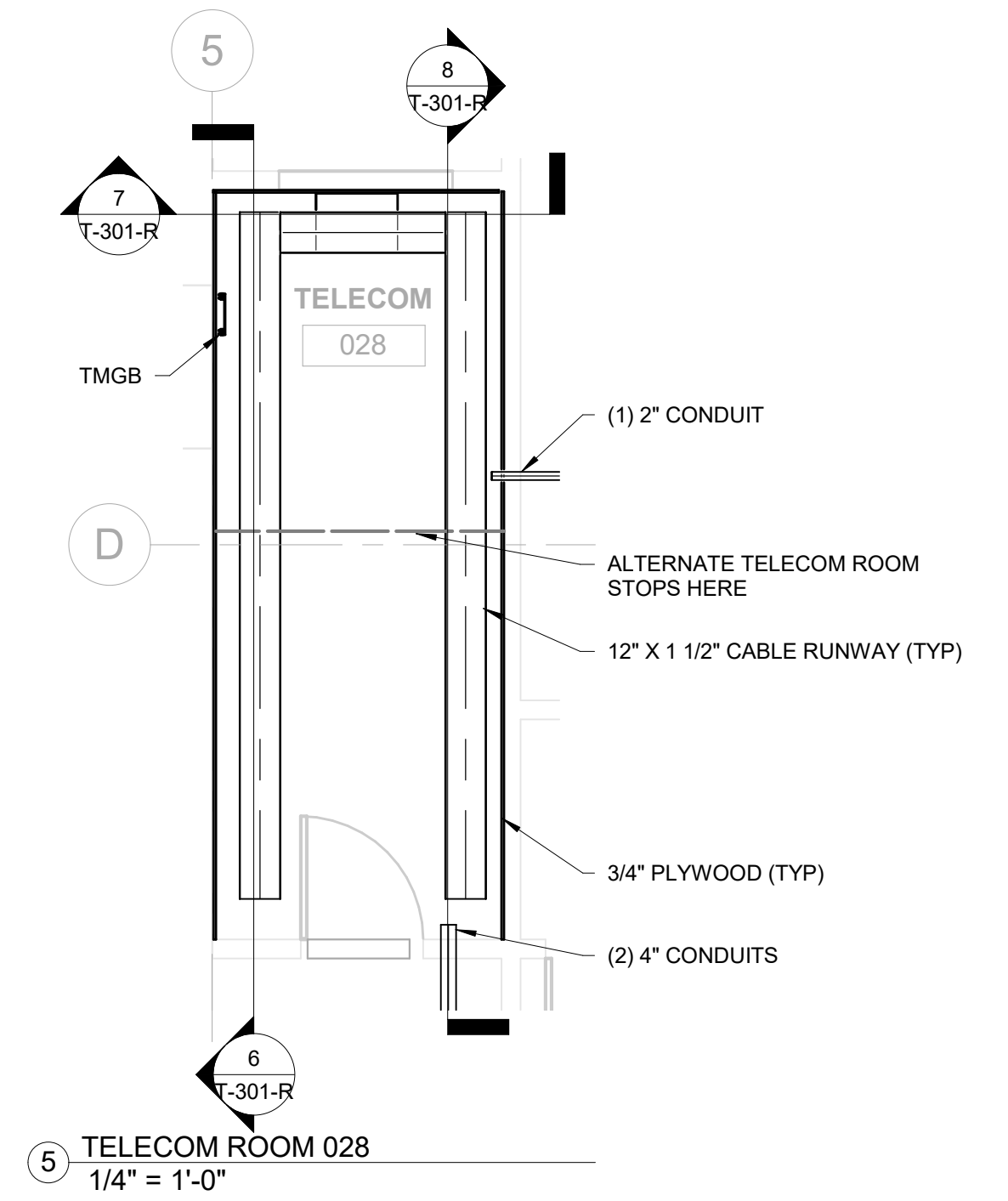
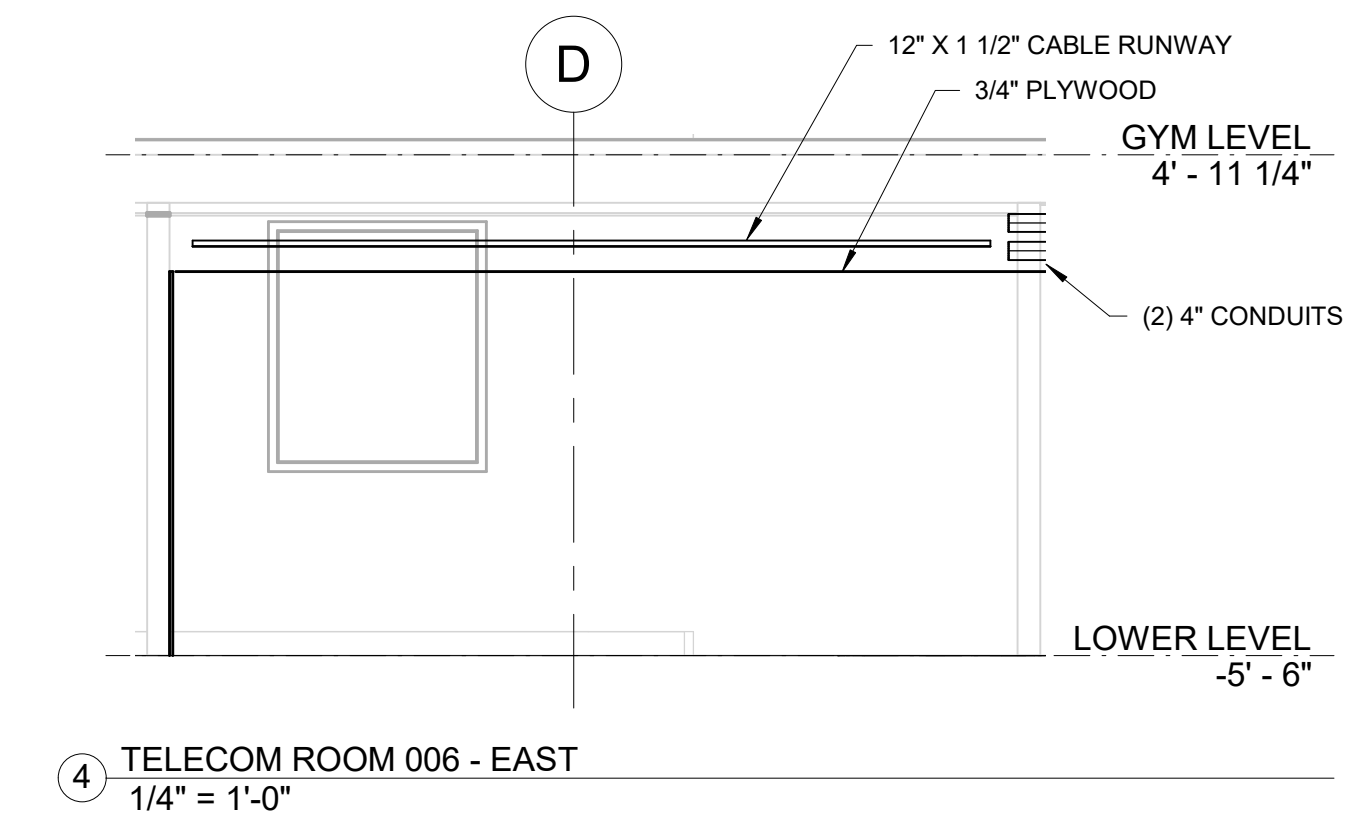
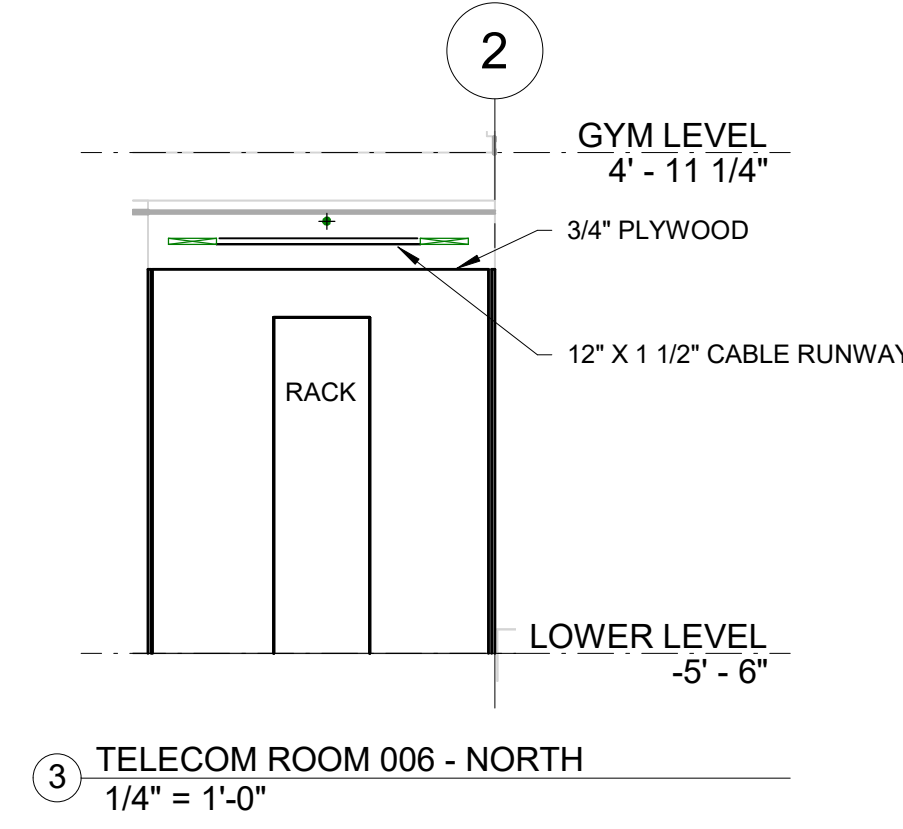
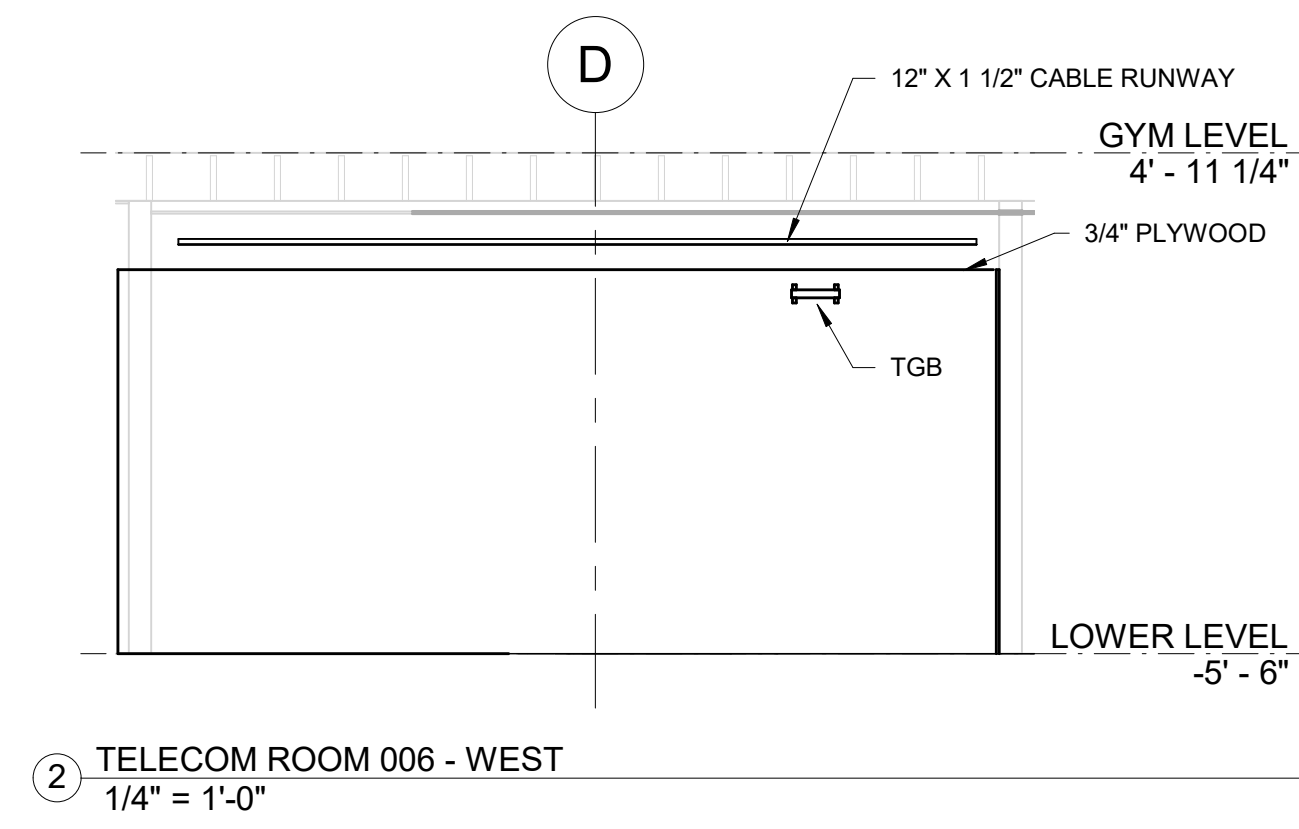
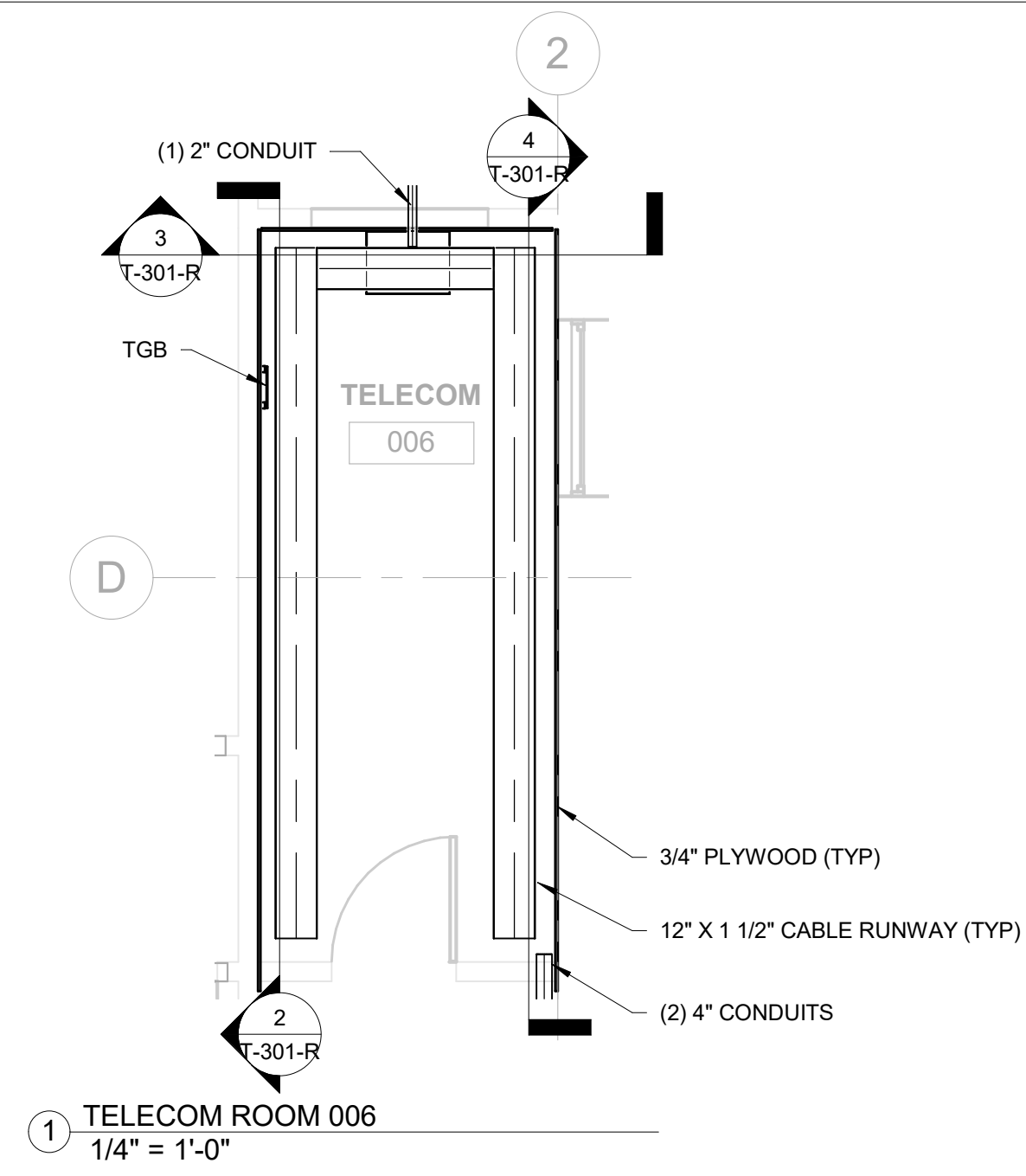
KEY PLAN

DRAWING TITLE
TELECOM PROPOSED - SITE

PROJECT NO. 21070	DRAWING NO. T-104-R
DATE 09/28/23	
SCALE 1/8" = 1'-0"	
DRAWN BY Author	
CHECKED BY Checker	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

PACKAGE 2 - IFB
 NOT FOR CONSTRUCTION
 08/28/23



COPPER RACK		
RU	EQUIPMENT ID	DESCRIPTION
1	SPACE	
2		
3	FIBER PATCH PANEL 1	6 STRAND SINGLE MODE FIBER TO DEMARC
4		
5		6 STRAND SINGLE MODE FIBER TO TELECOM ROOM 028
6	1 RU WIRE MANAGEMENT	
7	COPPER PATCH PANEL	CAT 6 CABLES TO TELECOM OUTLETS AND WAPS
8	1 RU WIRE MANAGEMENT	
9	COPPER PATCH PANEL	CAT 6 CABLES TO TELECOM OUTLETS AND WAPS
10	SPACE	
11	48 PORT NETWORK SWITCH	(BY OWNER)
12	SPACE	
13	48 PORT NETWORK SWITCH	(BY OWNER)
14	GENETEC VIDEO MANAGEMENT SYSTEM	
15	GENETEC NETWORK VIDEO RECORDER	
16	SPACE	
17		
18	SPACE	
19	48 PORT COPPER PATCH PANEL	CAT 6 CABLES TO CAMERAS
20	SPACE	
21	48 PORT COPPER PATCH PANEL	CAT 6 CABLES TO CAMERAS
22	48 PORT NETWORK SWITCH	(BY OWNER)
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44	2000VA UPS	
45		

VERTICAL CABLE MANAGEMENT

COPPER RACK		
RU	EQUIPMENT ID	DESCRIPTION
1	SPACE	
2		
3	FIBER PATCH PANEL 1	6 STRAND SINGLE MODE FIBER TO DEMARC
4		
5		6 STRAND SINGLE MODE FIBER TO TELECOM ROOM 006
6		
7	1 RU WIRE MANAGEMENT	
8	COPPER PATCH PANEL	CAT 6 CABLES TO TELECOM OUTLETS AND WAPS
9	1 RU WIRE MANAGEMENT	
10	COPPER PATCH PANEL	CAT 6 CABLES TO TELECOM OUTLETS AND WAPS
11	SPACE	
12	48 PORT NETWORK SWITCH	(BY OWNER)
13	SPACE	
14	48 PORT NETWORK SWITCH	(BY OWNER)
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
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32		
33		
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35		
36		
37		
38		
39		
40		
41		
42		
43		
44	2000VA UPS	
45		

VERTICAL CABLE MANAGEMENT

9 RACK ELEVATION - TELECOM ROOM 006
NOT TO SCALE

10 RACK ELEVATION - TELECOM ROOM 028
NOT TO SCALE

REVISIONS

ISSUE	DATE	DESCRIPTION
-------	------	-------------

06/02/23 ISSUE FOR BID



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PROJECT TITLE
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS

KEY PLAN

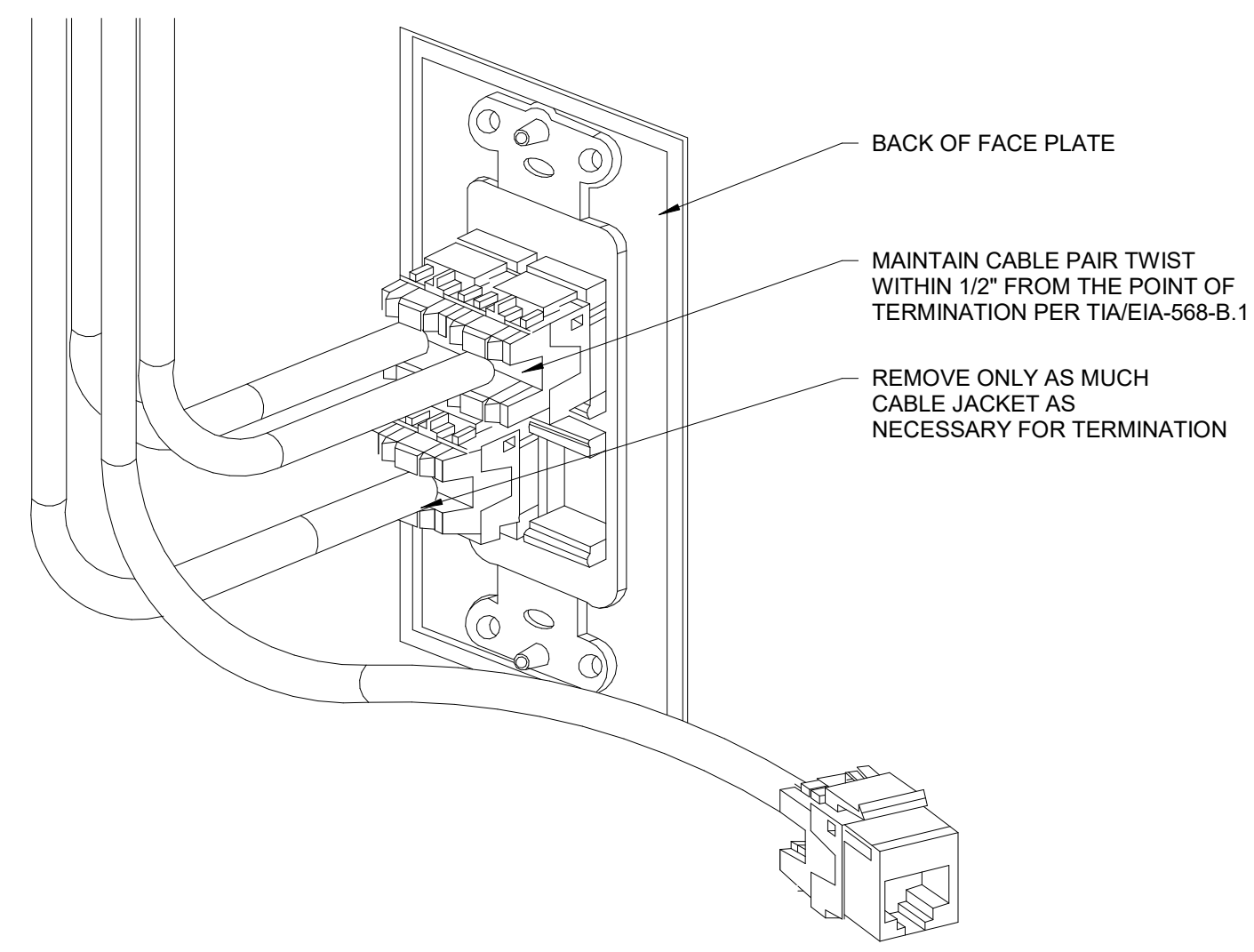
DRAWING TITLE
TELECOM - ENLARGED PLANS

PROJECT NO. 21070 DRAWING NO. T-301-R

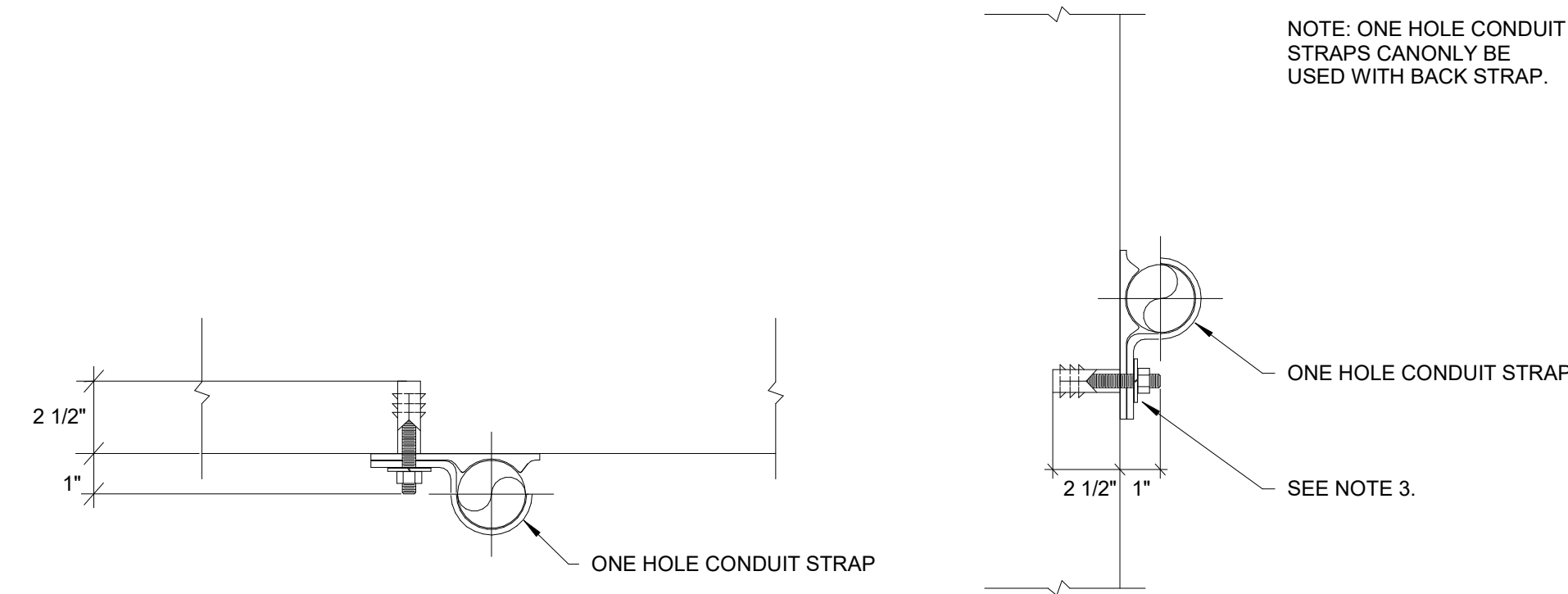
DATE 06/28/23 SCALE As indicated DRAWN BY EEH CHECKED BY DB

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

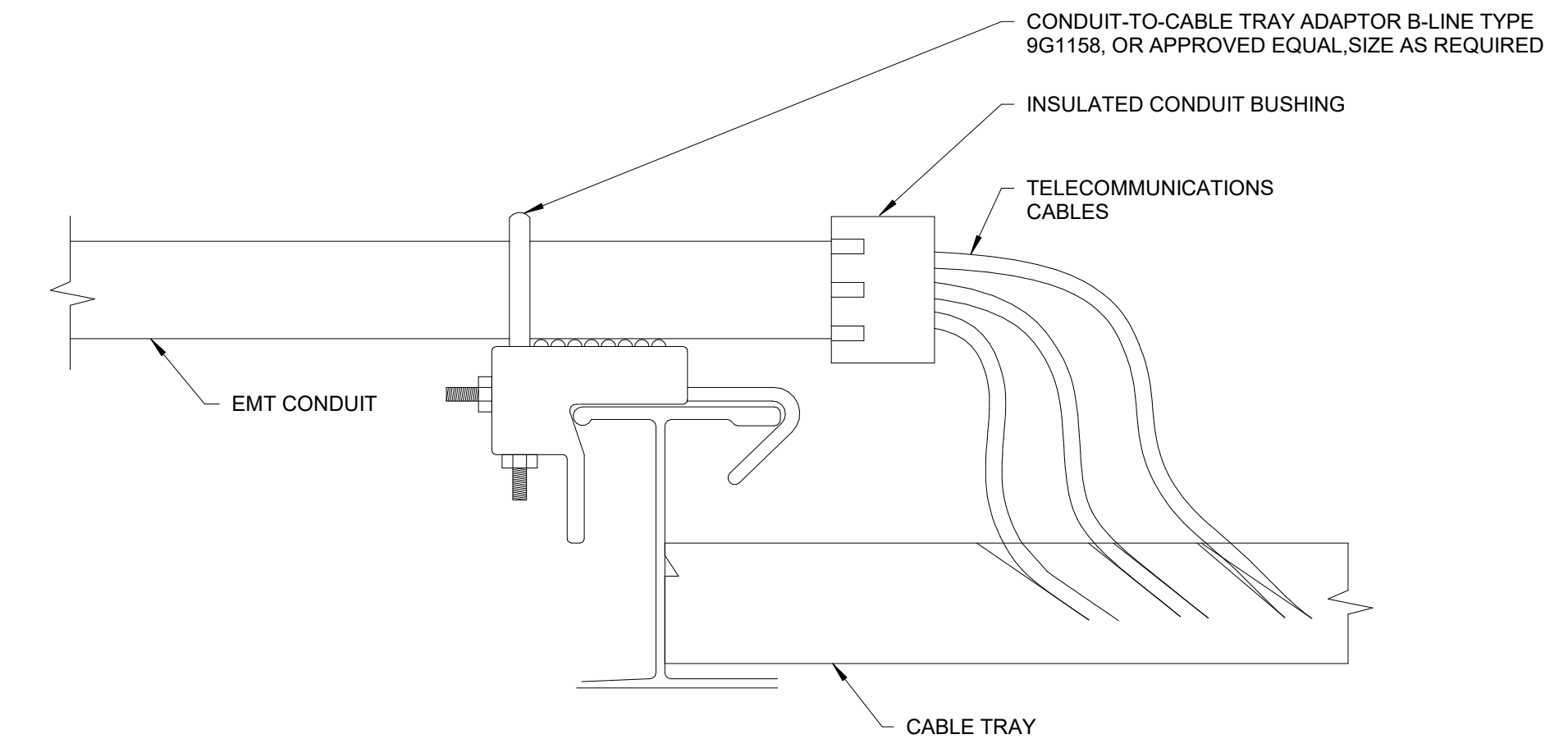
PACKAGE 2 - IFB
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08/28/23



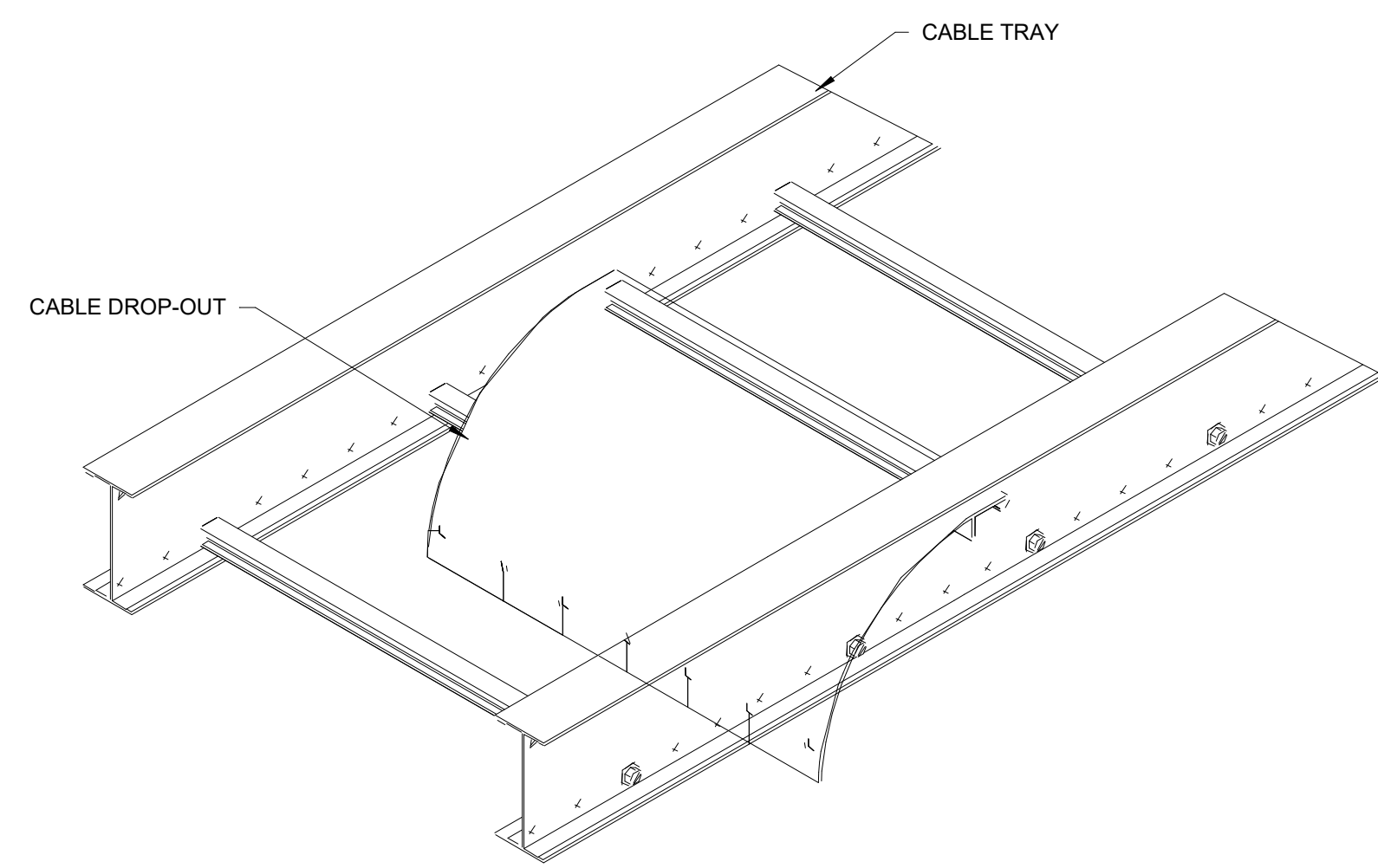
1 TYPICAL CAT6A - FACEPLATE TERMINATION DETAIL
NOT TO SCALE



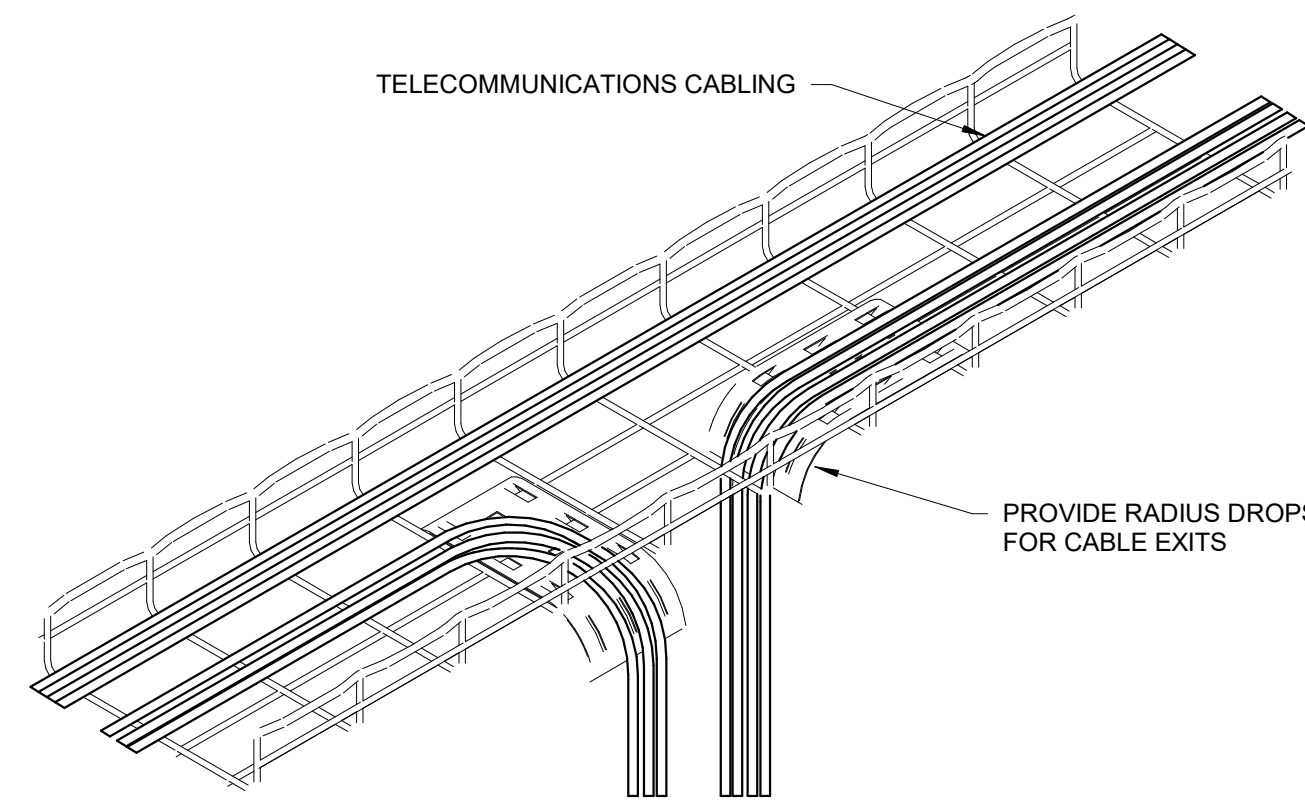
2 TYPICAL TELECOM CONDUIT DETAILS (SURFACE MOUNT)
NOT TO SCALE



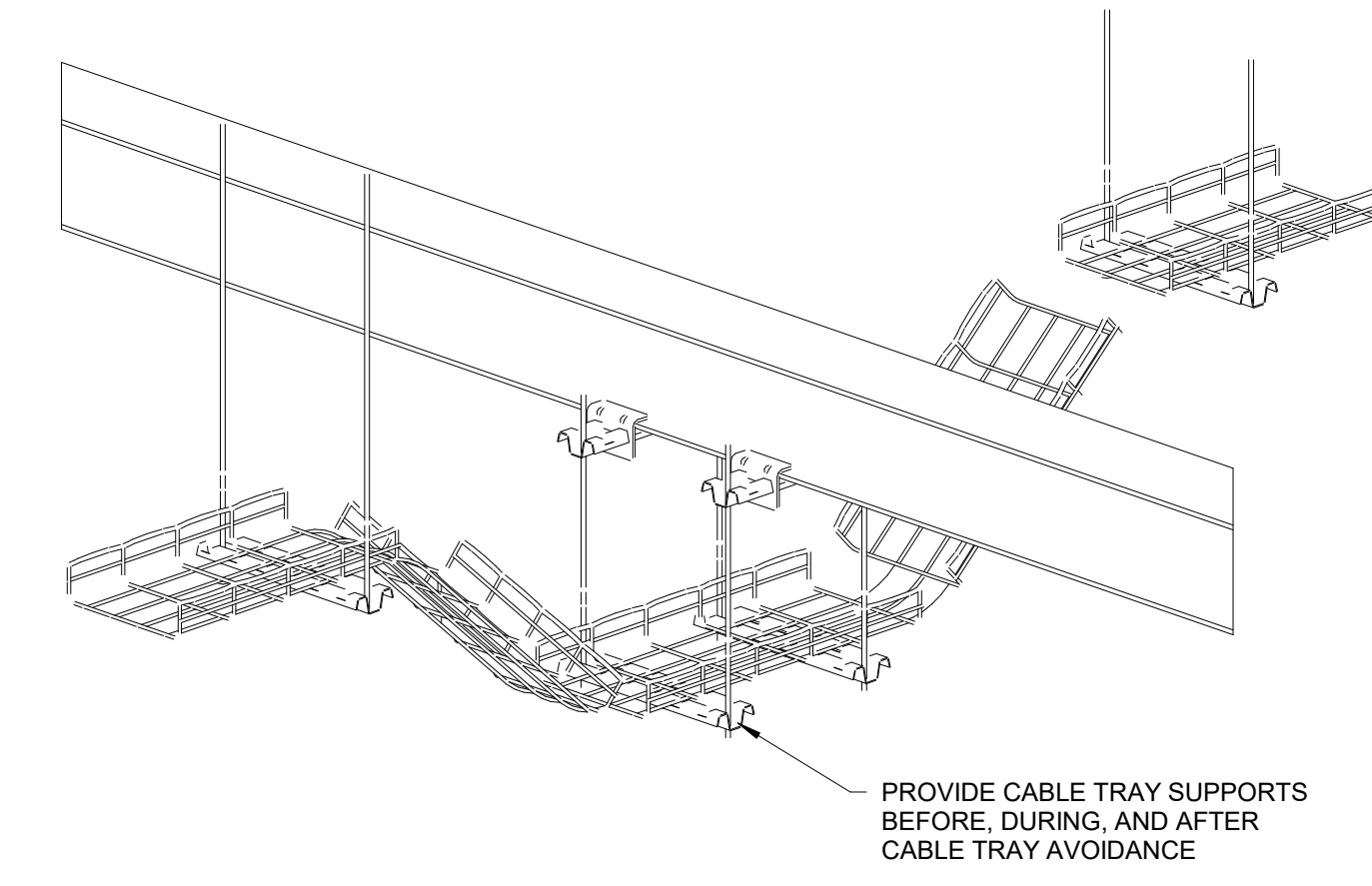
3 TYPICAL CABLE TRAY DETAIL (CONDUIT TRANSITION)
NOT TO SCALE



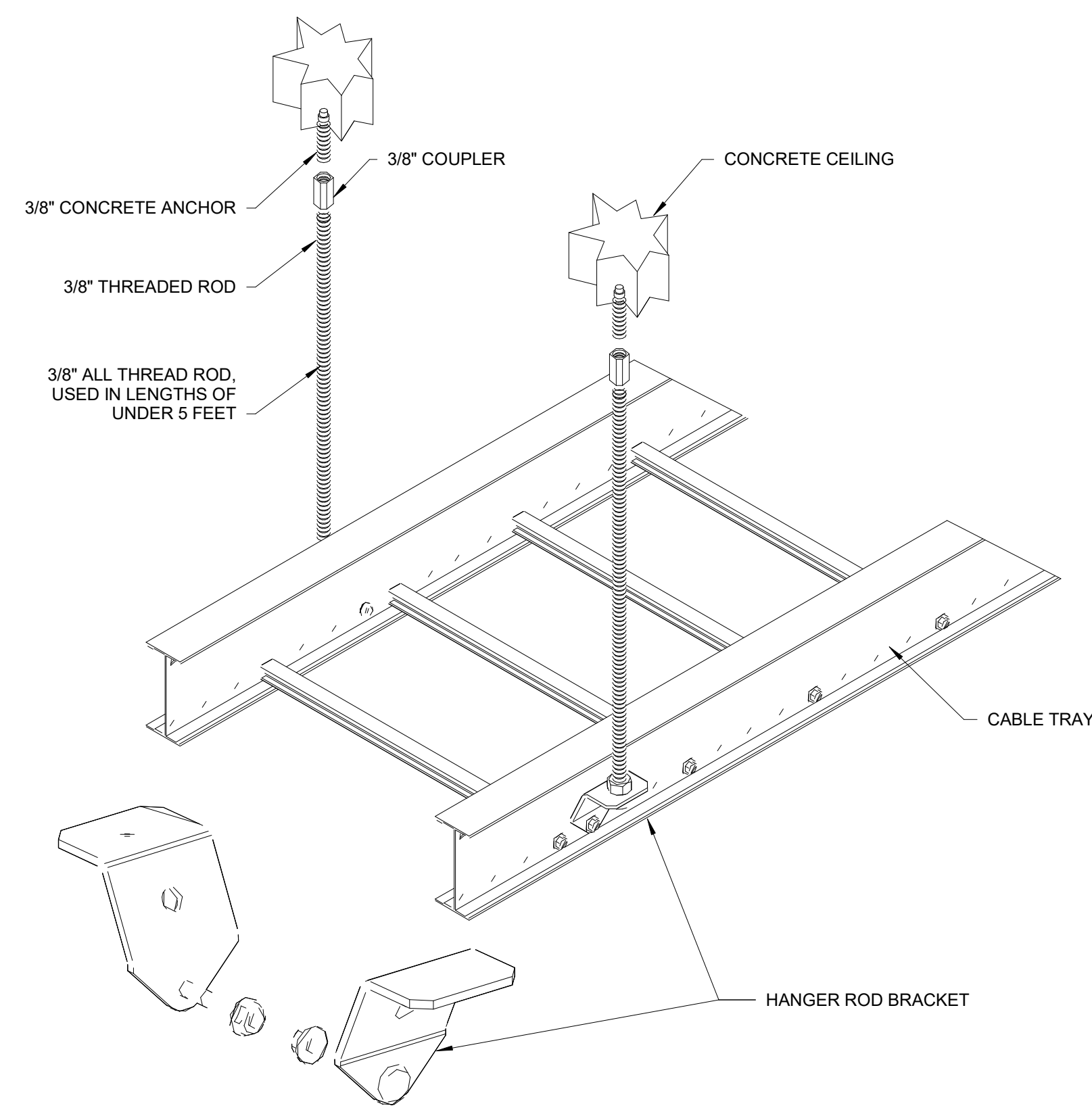
4 TYPICAL CABLE TRAY DETAIL (DROP OUT)
NOT TO SCALE



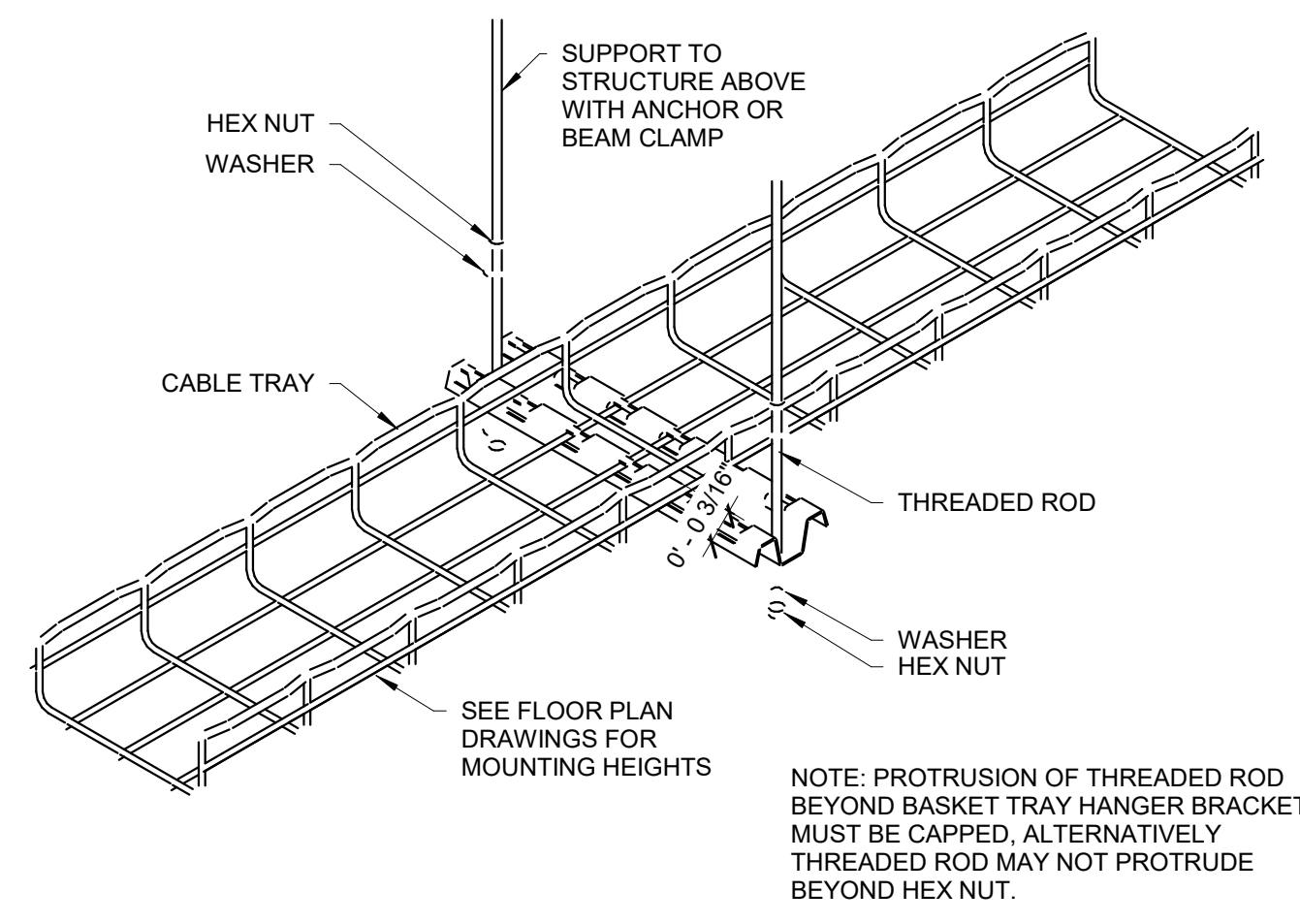
5 TYPICAL CABLE TRAY DETAIL (RADIUS DROP)
NOT TO SCALE



6 TYPICAL CABLE TRAY DETAIL (OBSTACLE AVOIDANCE)
NOT TO SCALE



7 TYPICAL CABLE TRAY DETAIL (SUPPORT SYSTEM)
NOT TO SCALE



8 TYPICAL CABLE TRAY DETAIL (SUPPORT)
NOT TO SCALE

REVISIONS

ISSUE	DATE	DESCRIPTION
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PROJECT TITLE

KINGSSESSING RECREATION
CENTER BUILDING AND SITE
IMPROVEMENTS

KEY PLAN

DRAWING TITLE

TELECOM - DETAILS

PROJECT NO.

21070

DATE

08/28/23

SCALE

As indicated

DRAWN BY

EEH

CHECKED BY

DB

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PROJECT NO. 21070

DATE 08/28/23

SCALE As indicated

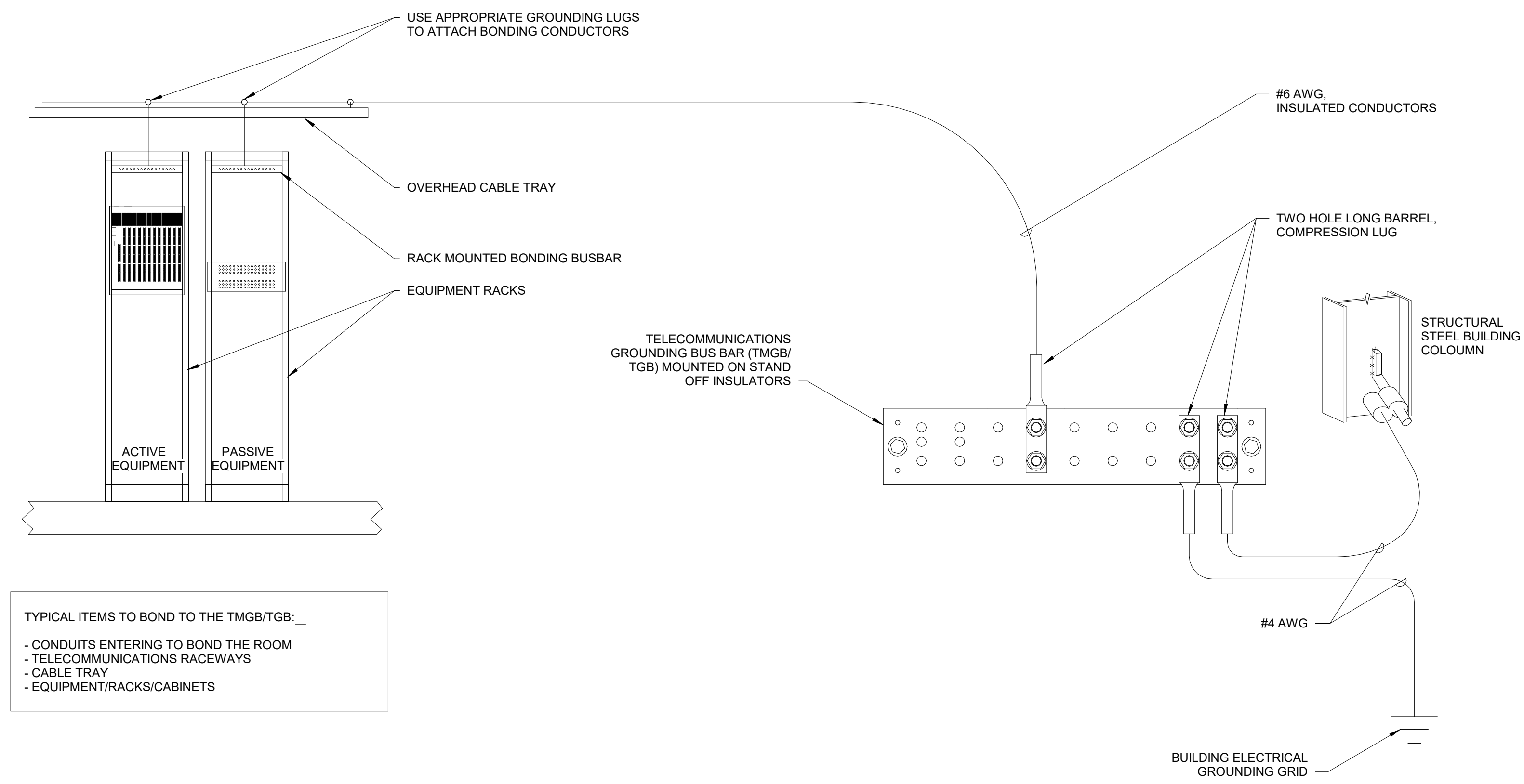
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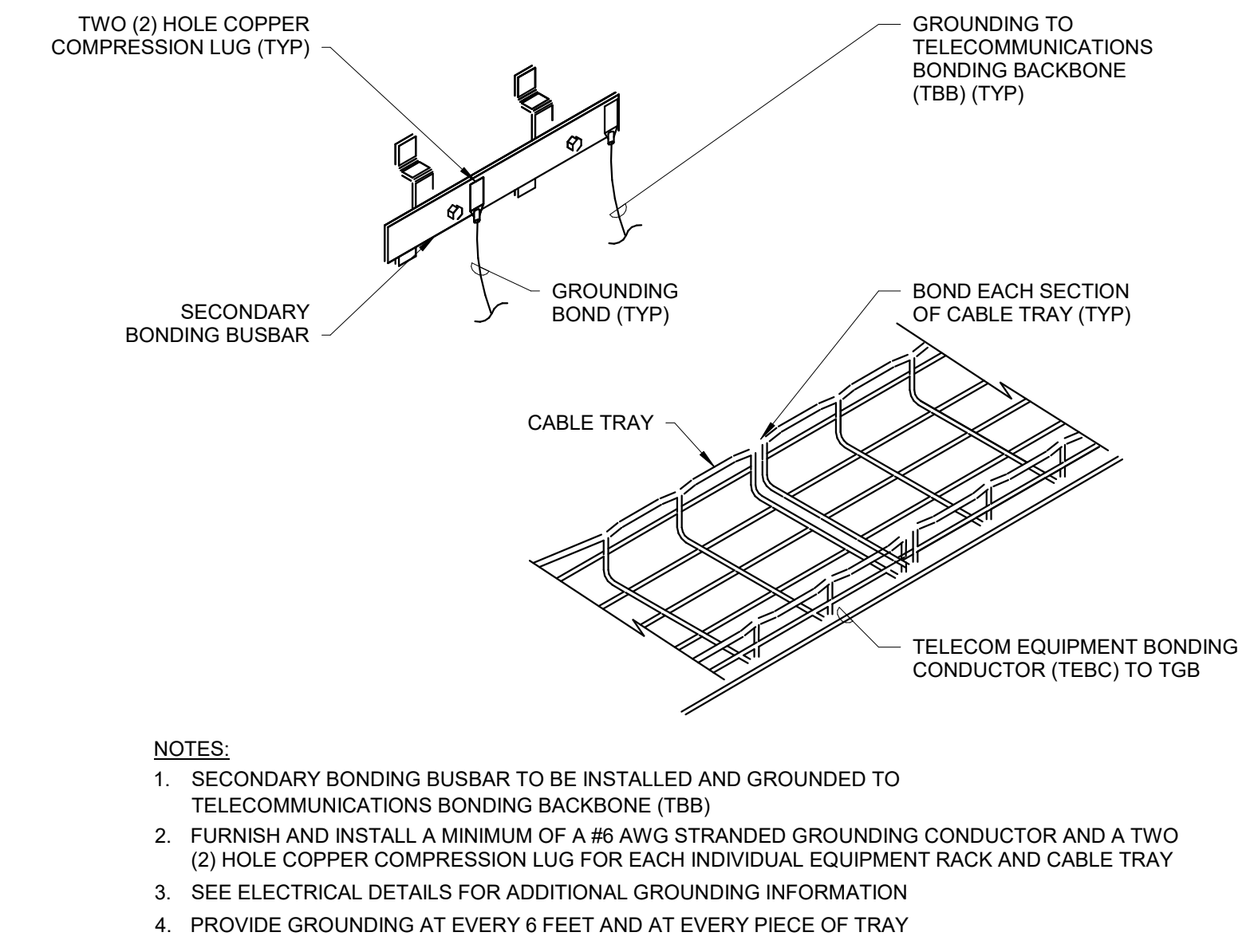
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PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23

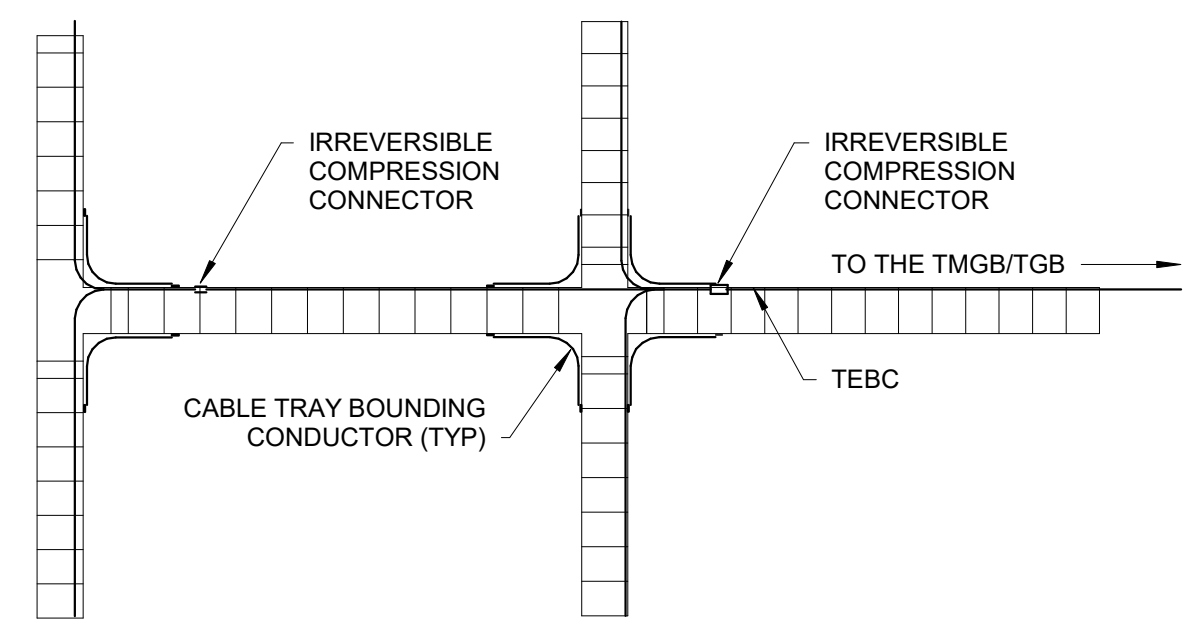
T-401-R



1 TYPICAL TELECOM GROUNDING / BONDING DETAIL 1
NOT TO SCALE



2 TYPICAL CABLE TRAY GROUNDING DETAIL 2
NOT TO SCALE



3 TYPICAL CABLE TRAY GROUNDING DETAIL 3
NOT TO SCALE

REVISIONS

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PROJECT TITLE
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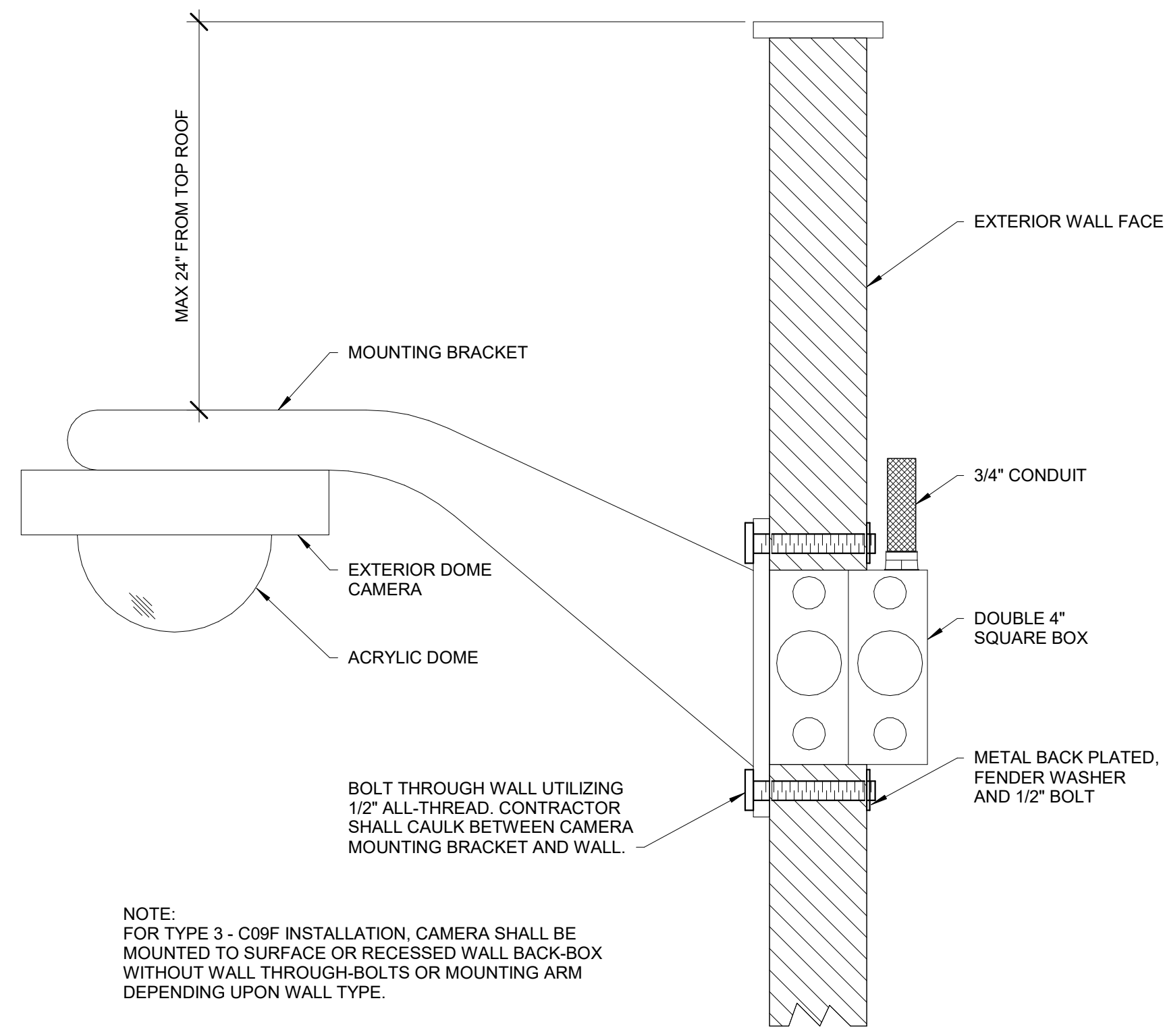
KEY PLAN

DRAWING TITLE
TELECOM - DETAILS

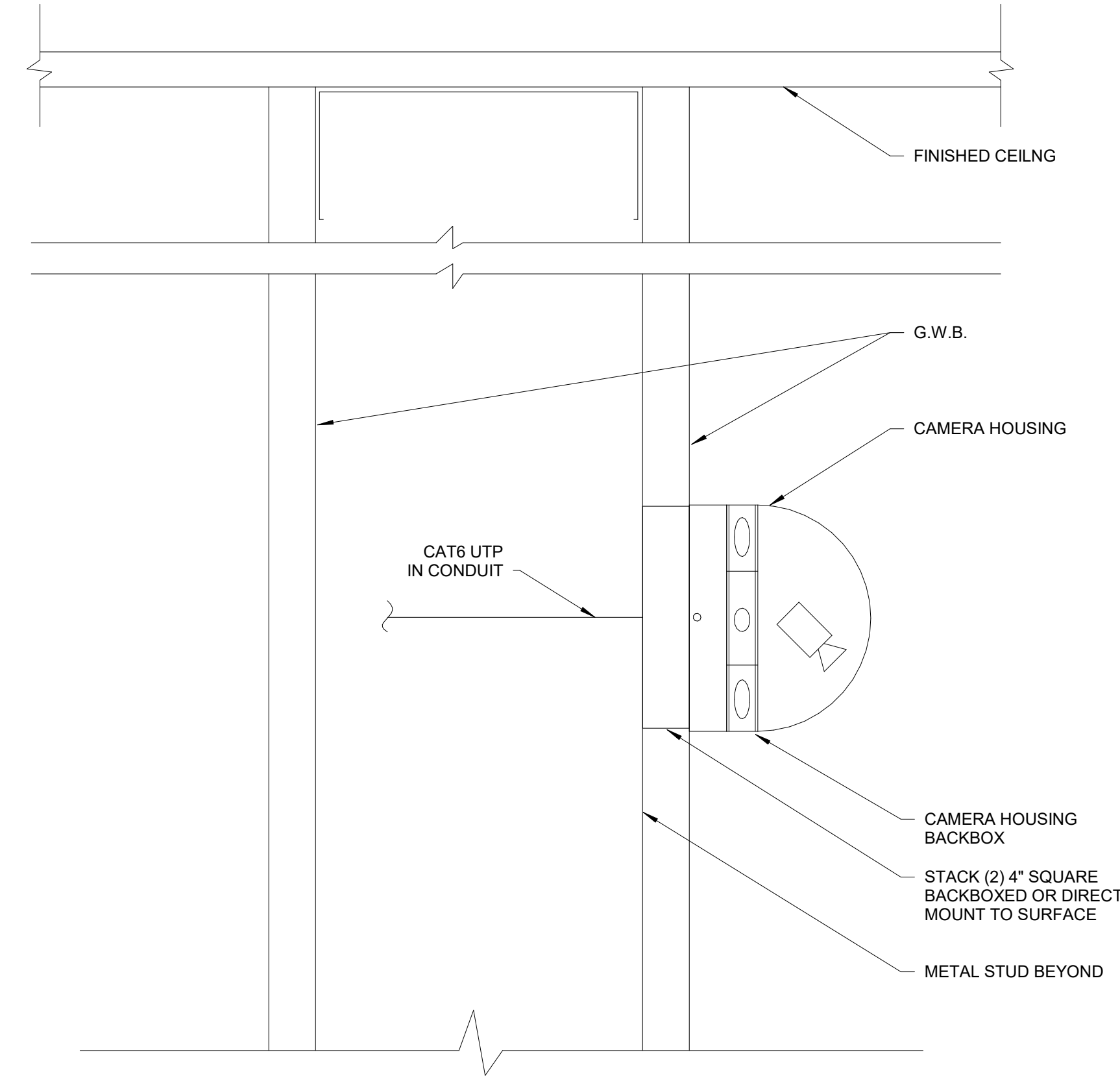
PROJECT NO. 21070	DRAWING NO. T-402-R
DATE 08/28/23	
SCALE NTS	
DRAWN BY EEH	
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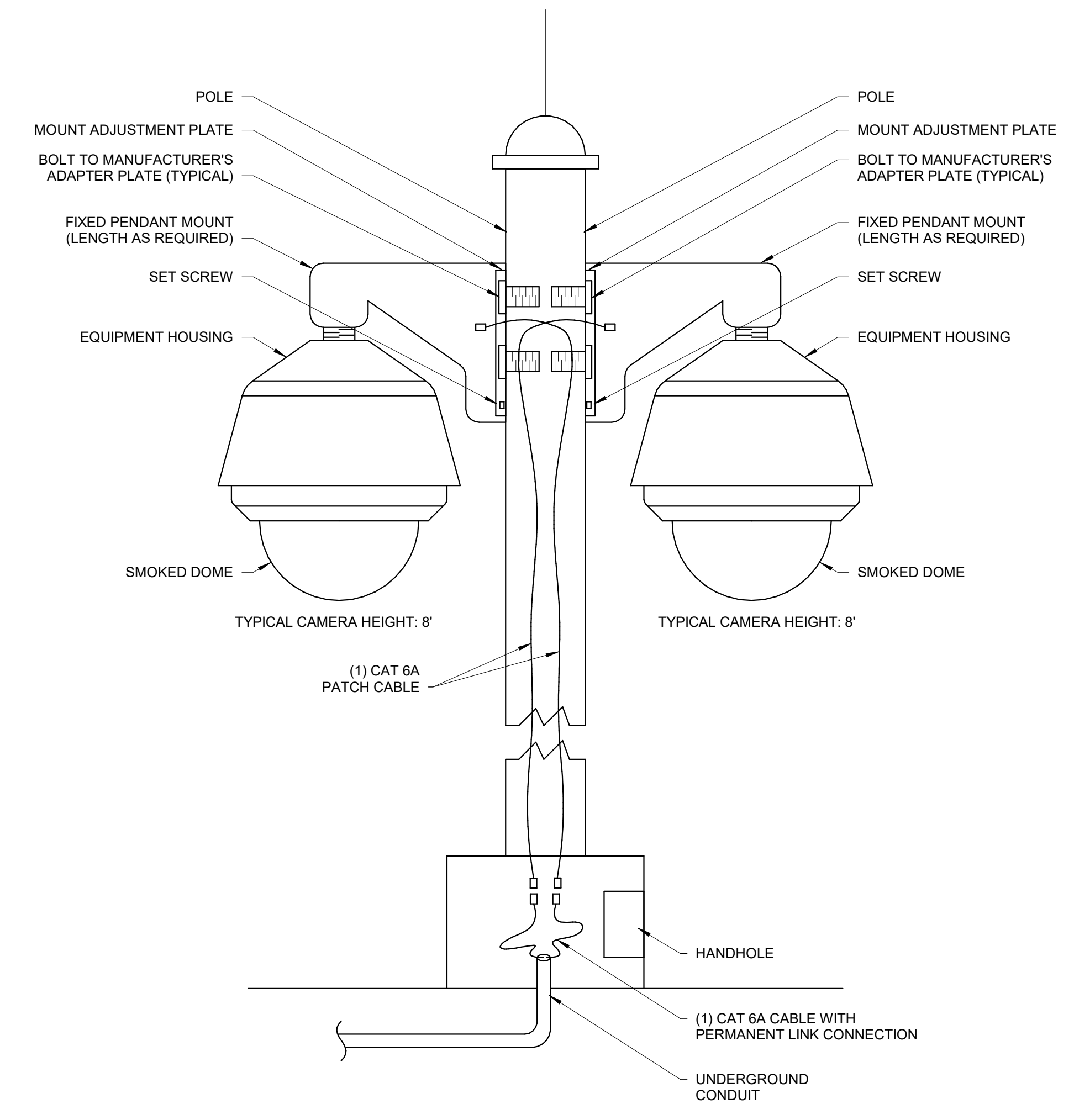
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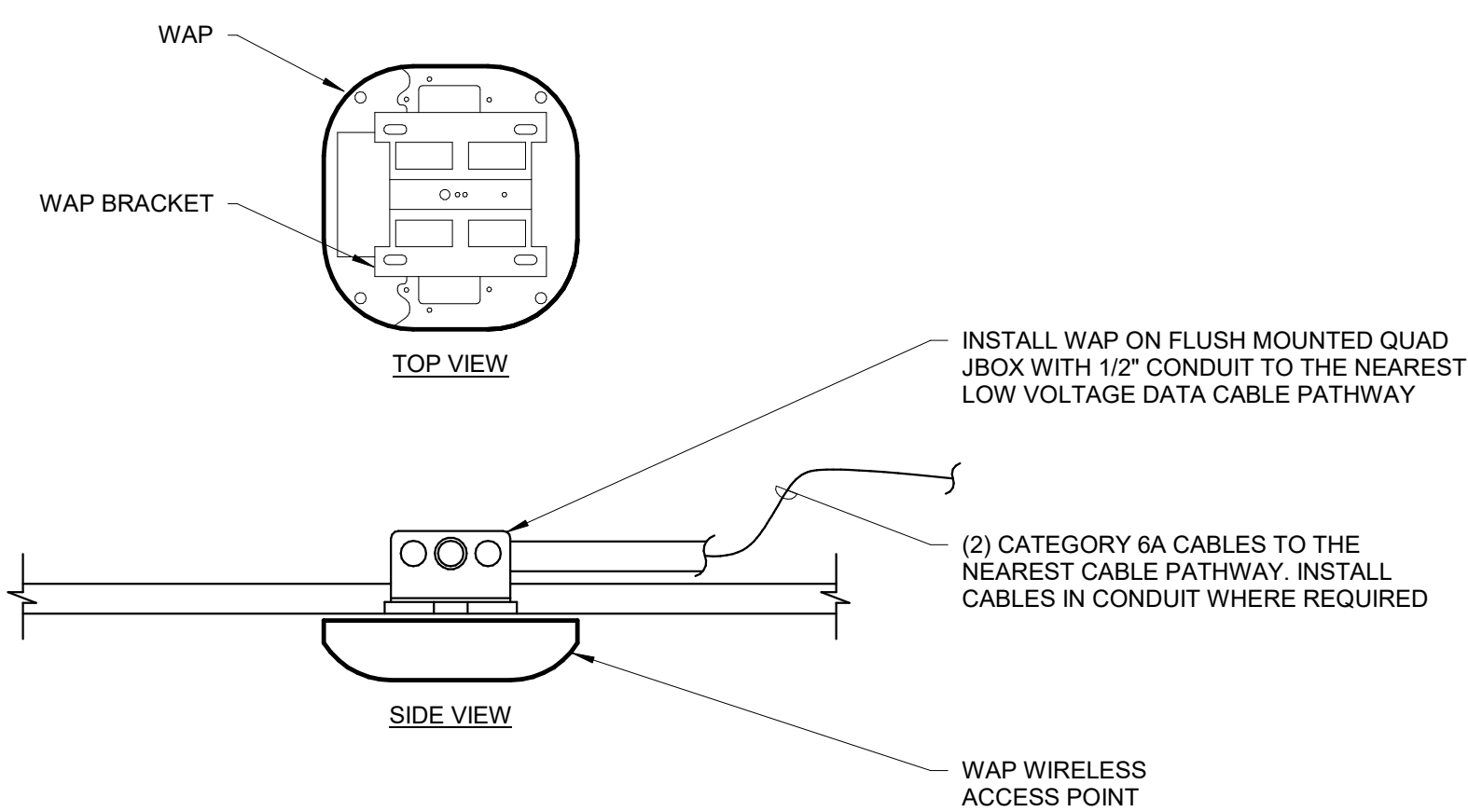
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NOT TO SCALE



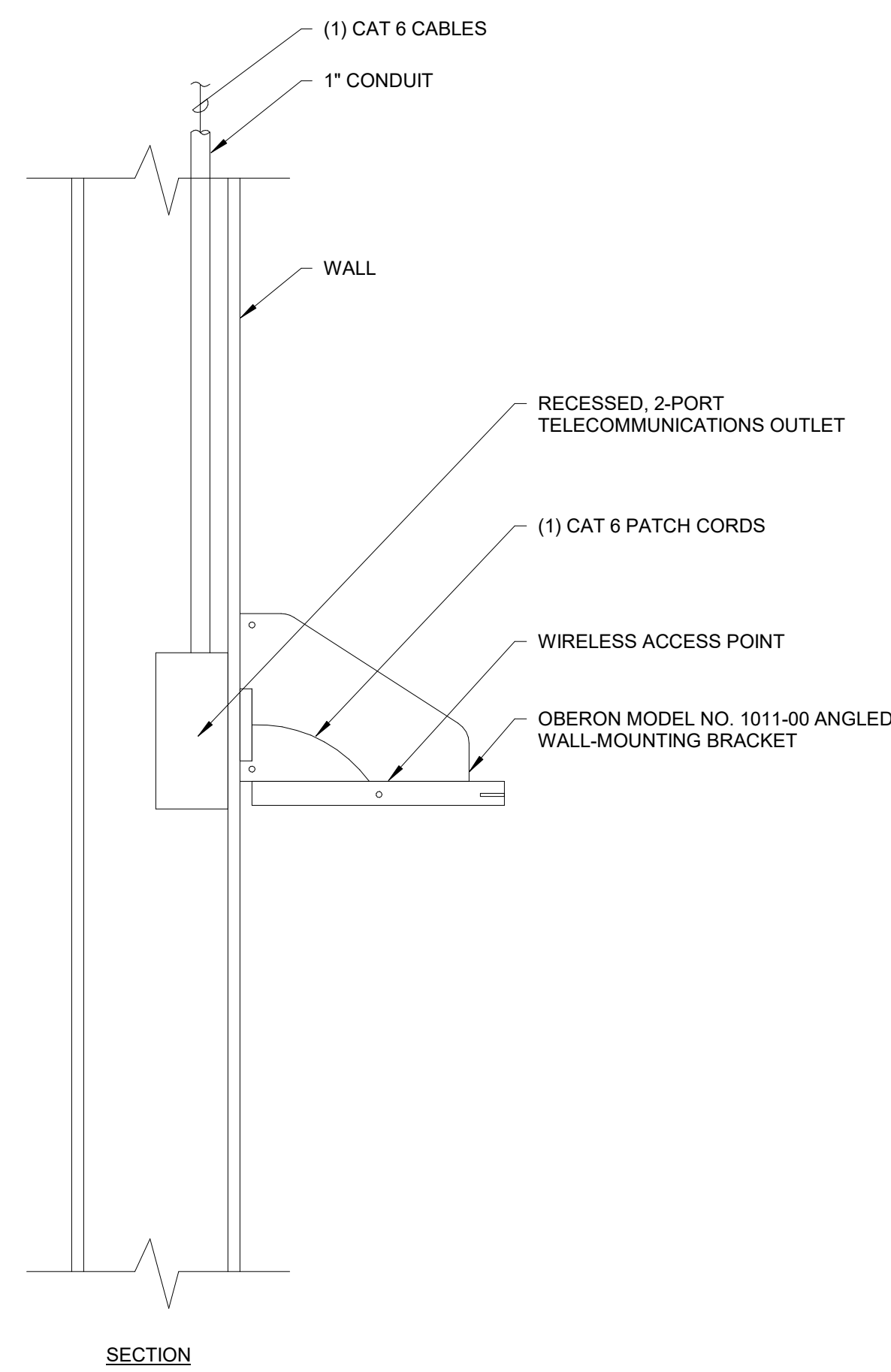
2 TYPICAL WALL DIFFUSER MOUNT DETAIL (FIXED CAMERA)
NOT TO SCALE



3 TYPICAL POLE MOUNT DETAIL (MULTIPLE DOME CAMERA)
NOT TO SCALE



4 TYPICAL WAP CEILING MOUNTED DETAIL
NOT TO SCALE



5 TYPICAL WAP WALL MOUNTED DETAIL
NOT TO SCALE

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ISSUE	DATE	DESCRIPTION
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PROJECT TITLE

KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS

KEY PLAN

DRAWING TITLE

TELECOM - DETAILS

PROJECT NO. 21070 DRAWING NO.

DATE 08/28/23

SCALE As indicated

DRAWN BY EEH

CHECKED BY DB

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

T-403-R

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23

REVISIONS

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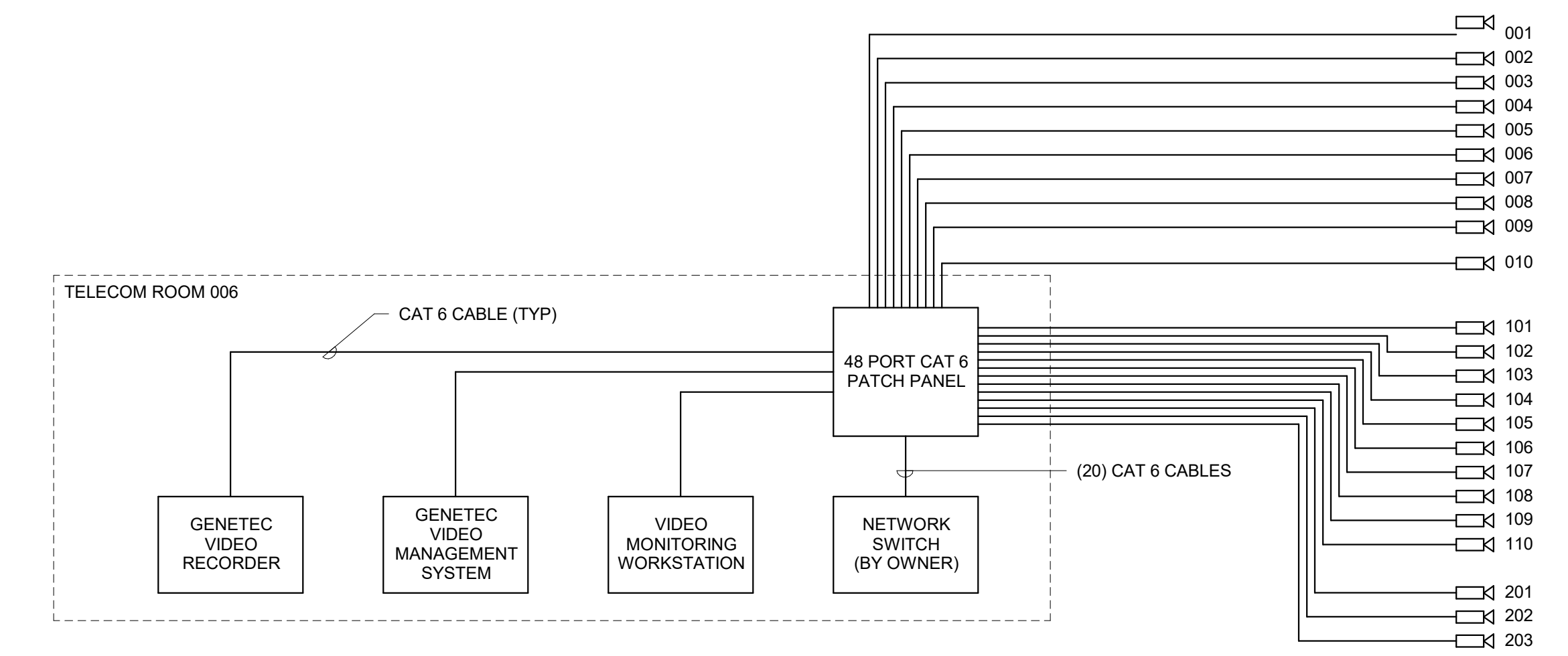
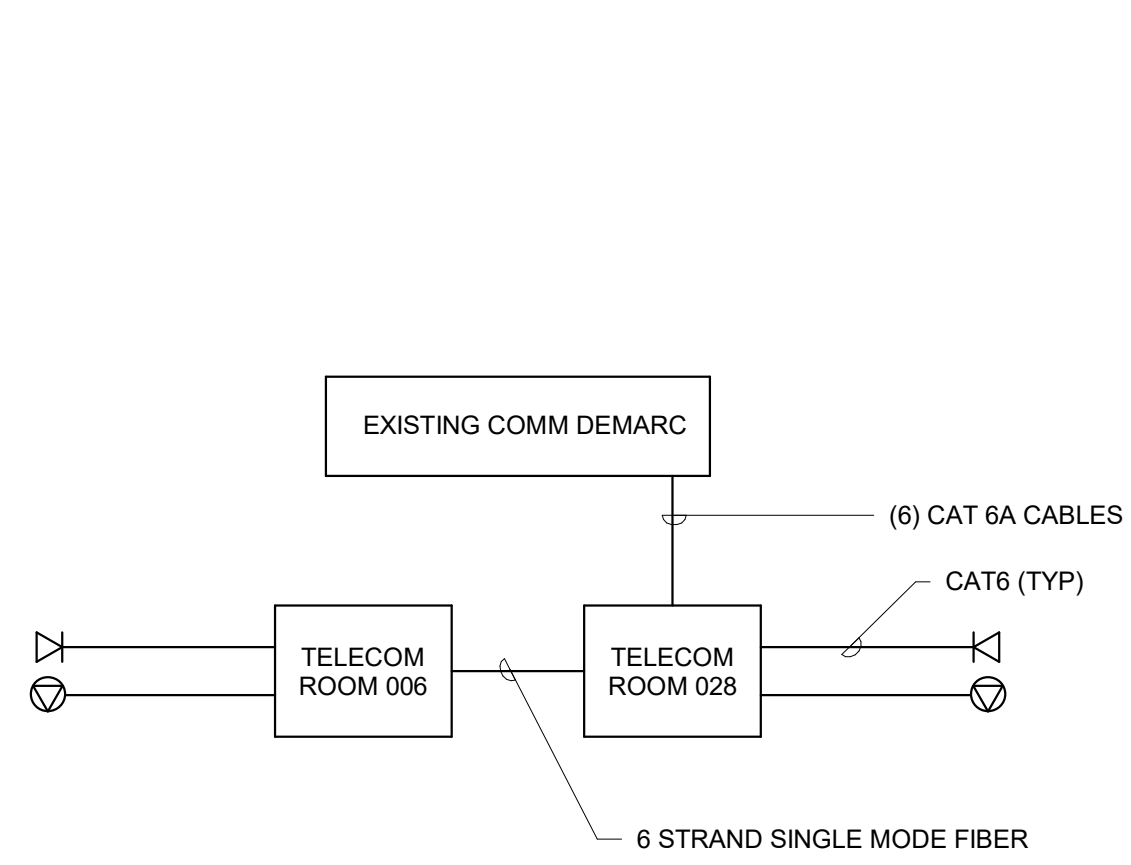
PROJECT TITLE
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS

KEY PLAN

DRAWING TITLE
TELECOM - DIAGRAMS AND SCHEDULES

PROJECT NO. 21070	DRAWING NO. T-501-R
DATE 06/28/23	
SCALE 12" = 1'-0"	
DRAWN BY EEH	
CHECKED BY DB	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 TELECOM ONE LINE DIAGRAM
NOT TO SCALE

2 SECURITY CAMERA SINGLE LINE DIAGRAM
NOT TO SCALE

CCTV SCHEDULE

CAMERA ID	SHEET NUMBER	FIELD OF VIEW	TYPE (DETAIL - CAMERA TYPE - MOUNT TYPE)	MOUNTING HEIGHT	FIBER EXTENSION
LOWER LEVEL					
001	T-100-R.2		1/T-403-R - FIXED - WALL MOUNT EXTERIOR	9' - 0"	No
002	T-100-R.2		2/T-403-R - FIXED - WALL MOUNT	9' - 0"	No
003	T-100-R.2		2/T-403-R - FIXED - WALL MOUNT	9' - 0"	No
004	T-100-R.2		2/T-403-R - FIXED - WALL MOUNT	9' - 0"	No
005	T-100-R.2		2/T-403-R - FIXED - WALL MOUNT	9' - 0"	No
006	T-104-R		3/T-403-R - FIXED - POLE MOUNT	13' - 0"	No
007	T-104-R		3/T-403-R - FIXED - POLE MOUNT	13' - 0"	No
008	T-104-R		3/T-403-R - FIXED - POLE MOUNT	13' - 0"	No
009	T-104-R		3/T-403-R - FIXED - POLE MOUNT	13' - 0"	Yes
010	T-104-R		3/T-403-R - FIXED - POLE MOUNT	13' - 0"	Yes
FIRST FLOOR					
101	T-101-R		1/T-403-R - FIXED - WALL MOUNT EXTERIOR	9' - 0"	No
102	T-101-R		2/T-403-R - FIXED - WALL MOUNT	9' - 0"	No
103	T-101-R		1/T-403-R - FIXED - WALL MOUNT EXTERIOR	9' - 0"	No
104	T-101-R		1/T-403-R - FIXED - WALL MOUNT EXTERIOR	9' - 0"	No
105	T-101-R		2/T-403-R - FIXED - WALL MOUNT	9' - 0"	No
106	T-101-R		2/T-403-R - FIXED - WALL MOUNT	9' - 0"	No
107	T-101-R		1/T-403-R - FIXED - WALL MOUNT EXTERIOR	9' - 0"	No
108	T-101-R		1/T-403-R - FIXED - WALL MOUNT EXTERIOR	9' - 0"	No
109	T-101-R		1/T-403-R - FIXED - WALL MOUNT EXTERIOR	9' - 0"	No
110	T-101-R		1/T-403-R - FIXED - WALL MOUNT EXTERIOR	9' - 0"	No
SECOND FLOOR					
201	T-102-R		2/T-403-R - FIXED - WALL MOUNT	9' - 0"	No
202	T-102-R		2/T-403-R - FIXED - WALL MOUNT	9' - 0"	No
203	T-102-R		2/T-403-R - FIXED - WALL MOUNT	9' - 0"	No
Grand total: 23					

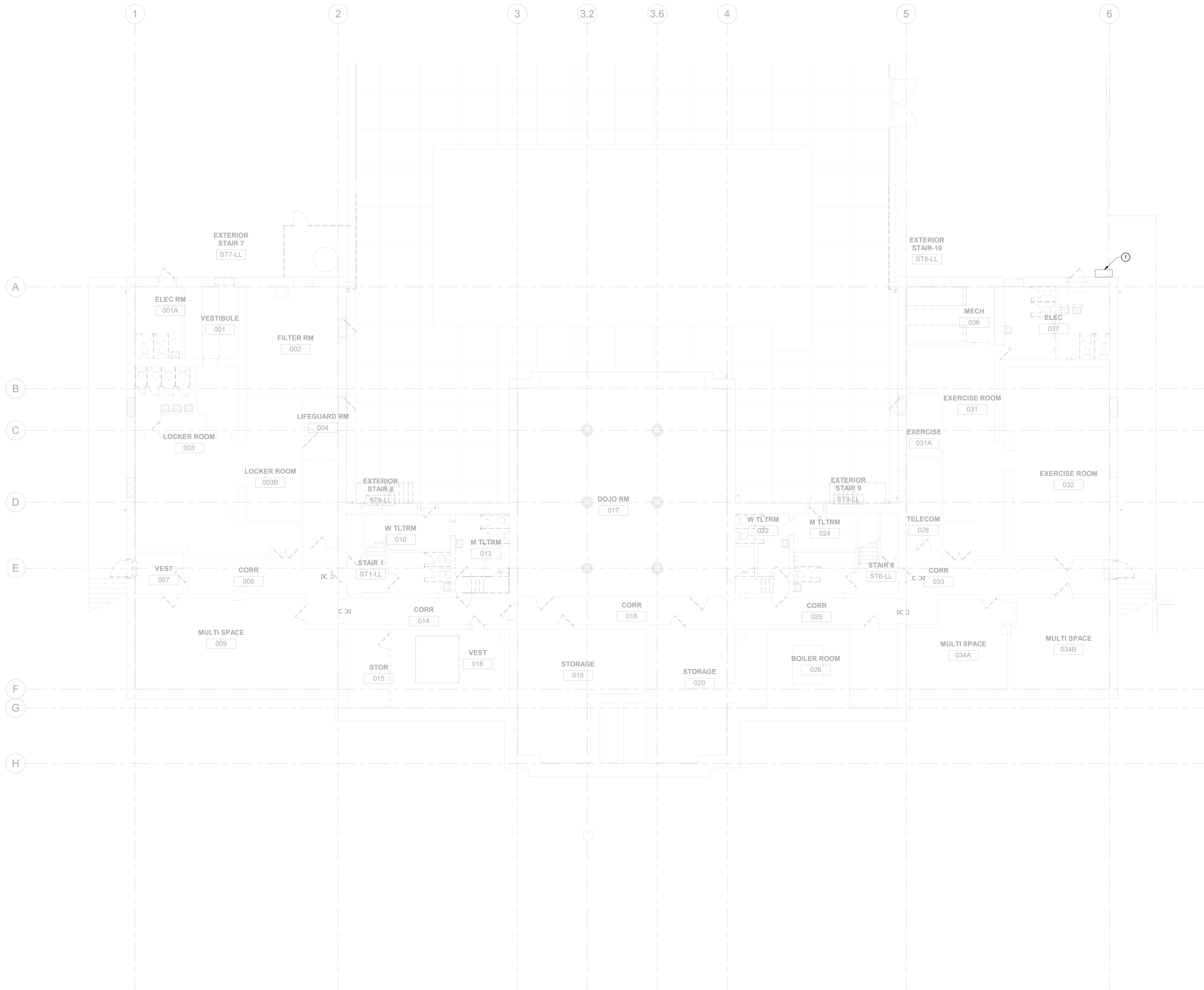
PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23

GENERAL DEMOLITION NOTES:

1. CONTRACTOR MUST REMOVE DEVICES SHOWN AND ASSOCIATED CABLING BACK TO SOURCE.
2. CONTRACTOR MUST DEMOLISH EXISTING TELECOM OUTLETS AND ASSOCIATED CABLING BACK TO SOURCE.

KEYED NOTES: ①

1. EXISTING INCOMING COMM SERVICES TO REMAIN. PROTECT DURING CONSTRUCTION.



REVISIONS

ISSUE	DATE	DESCRIPTION
	06/02/23	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR:

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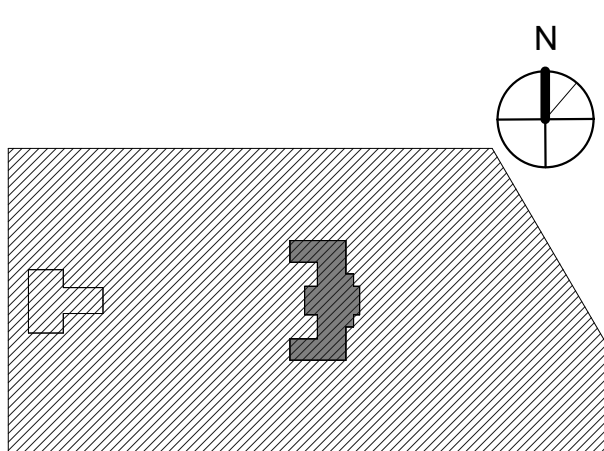


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PROJECT TITLE
KINGSSESSING RECREATION
CENTER BUILDING AND SITE
IMPROVEMENTS

KEY PLAN



DRAWING TITLE
TELECOM DEMOLITION -
BASEMENT

PROJECT NO. 21070	DRAWING NO. TD-100-R
DATE 06/28/23	
SCALE As indicated	
DRAWN BY EEH	
CHECKED BY DB	

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23

GENERAL DEMOLITION NOTES:

1. CONTRACTOR MUST REMOVE DEVICES SHOWN AND ASSOCIATED CABLING BACK TO SOURCE.
2. CONTRACTOR MUST DEMOLISH EXISTING TELECOM OUTLETS AND ASSOCIATED CABLING BACK TO SOURCE.

REVISIONS

ISSUE	DATE	DESCRIPTION
	06/02/23	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

SEALS



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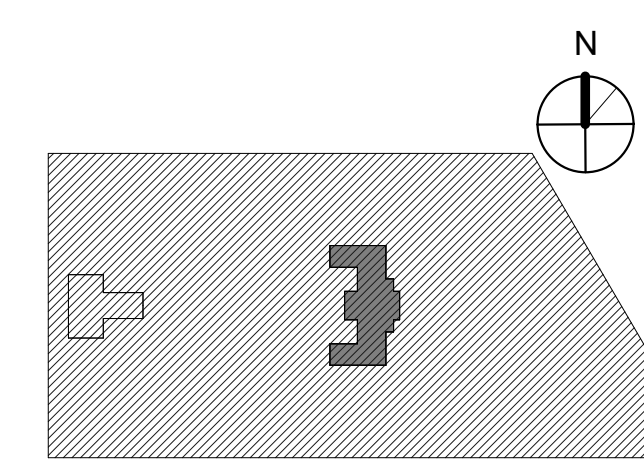


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PROJECT TITLE
KINGSSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS

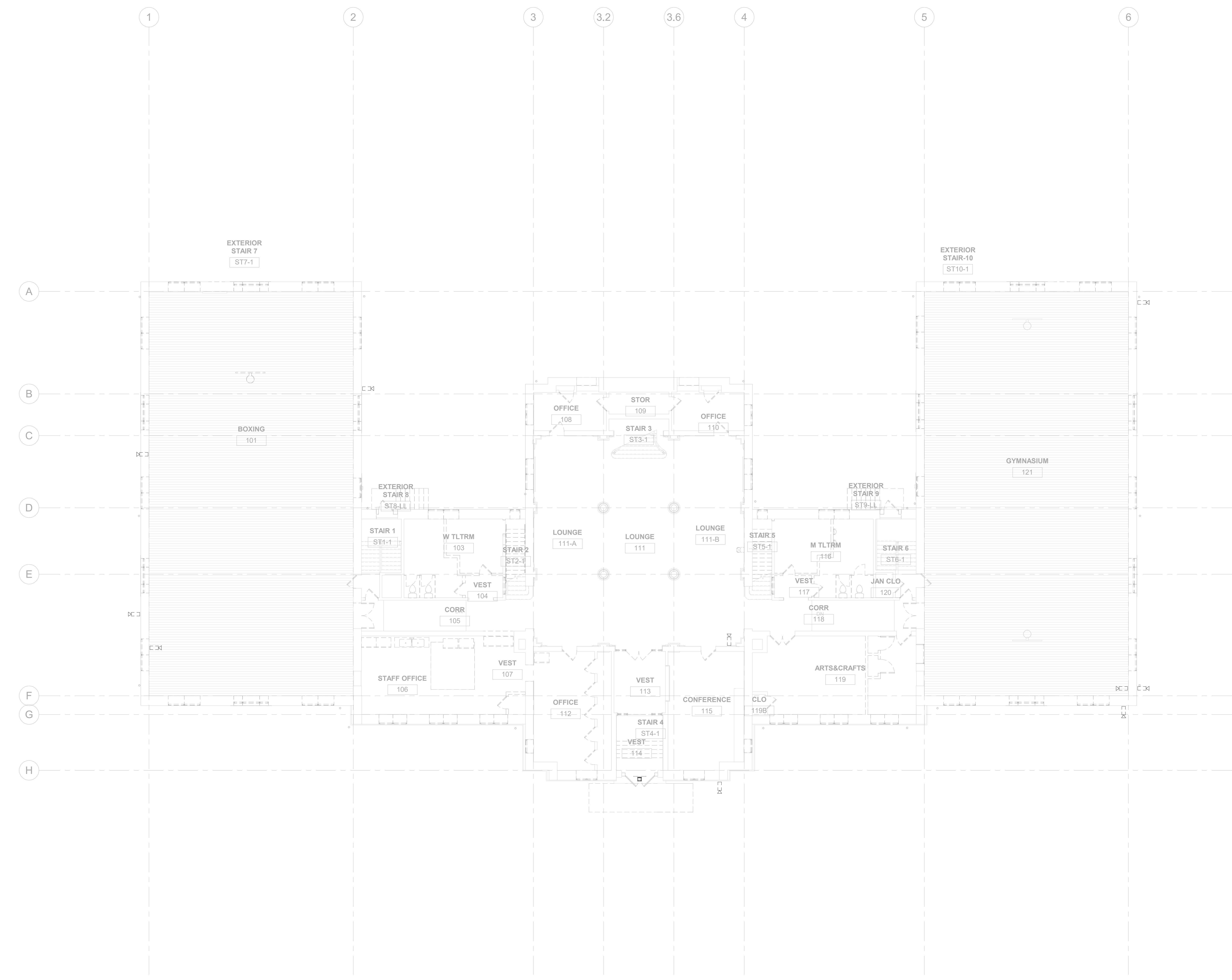
KEY PLAN



DRAWING TITLE
TELECOM DEMOLITION - FIRST FLOOR

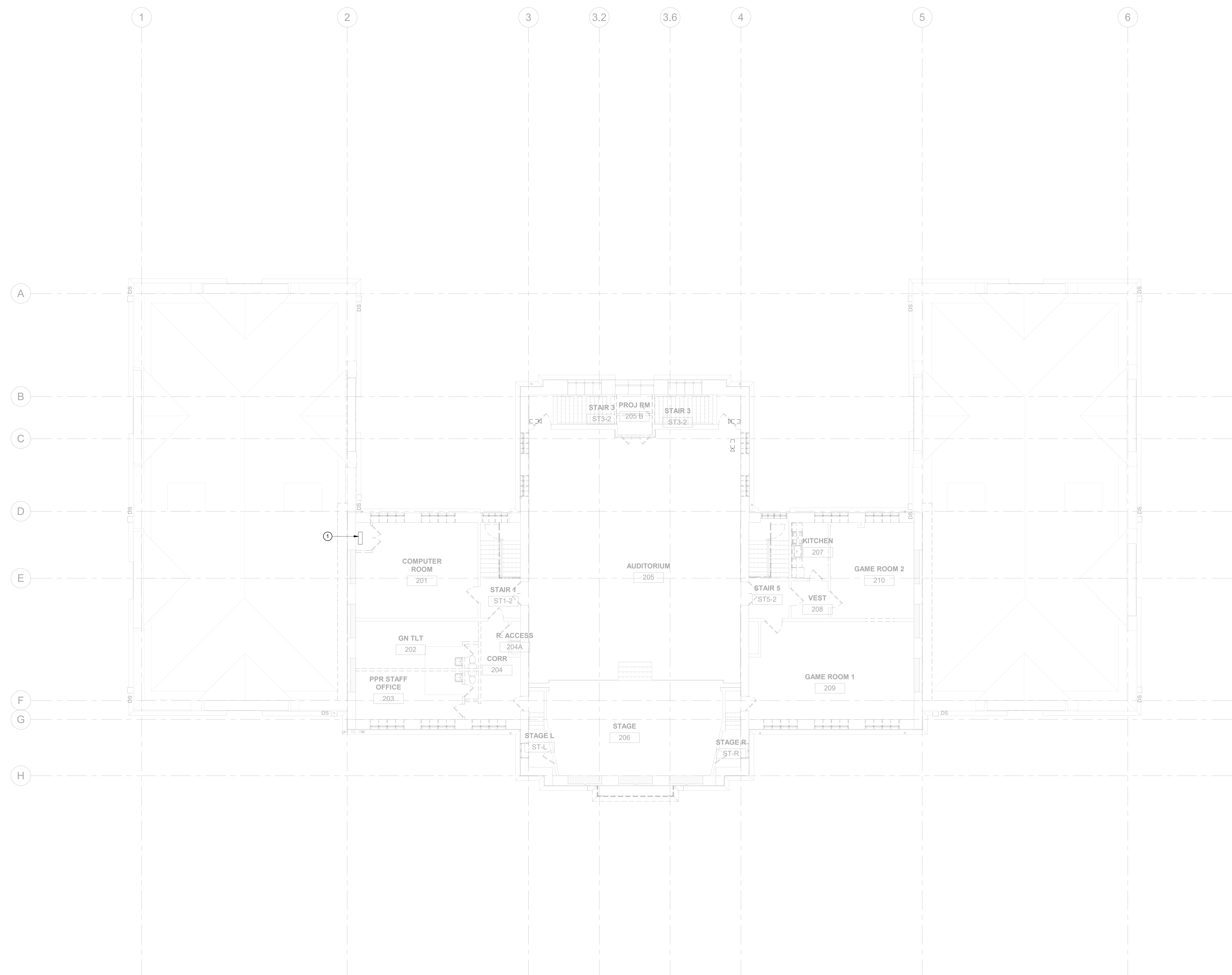
PROJECT NO. 21070	DRAWING NO. TD-101-R
DATE 06/28/23	
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NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



TELECOM DEMOLITION - REC CENTER
FIRST FLOOR
1/8" = 1'-0"

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23



- GENERAL DEMOLITION NOTES:**
- CONTRACTOR MUST REMOVE DEVICES SHOWN AND ASSOCIATED CABLING BACK TO SOURCE.
 - CONTRACTOR MUST DEMOLISH EXISTING TELECOM OUTLETS AND ASSOCIATED CABLING BACK TO SOURCE.
- KEYED NOTES:** ①
- EXISTING COMM RACK. PROTECT DURING CONSTRUCTION. CONTRACTOR MUST COORDINATE WITH OWNER TO RELOCATE EXISTING EQUIPMENT TO NEW TELECOM ROOM 028.

REVISIONS		
ISSUE	DATE	DESCRIPTION
	06/02/23	ISSUE FOR BID



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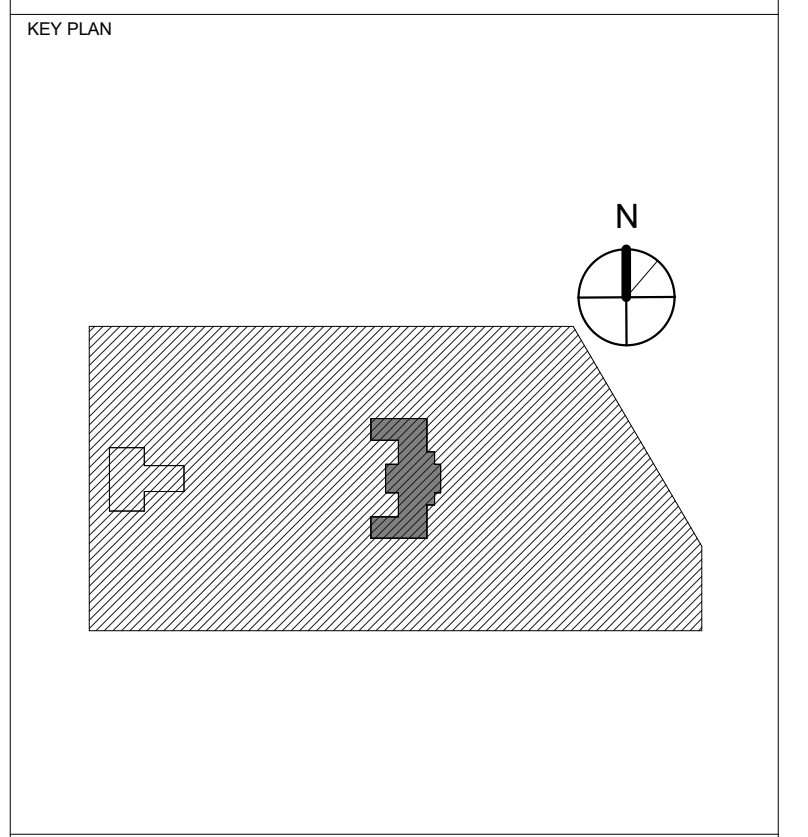
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KINGSSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
TELECOM DEMOLITION - SECOND FLOOR

PROJECT NO.	21070	DRAWING NO.	TD-102-R
DATE	06/28/23		
SCALE	As indicated		
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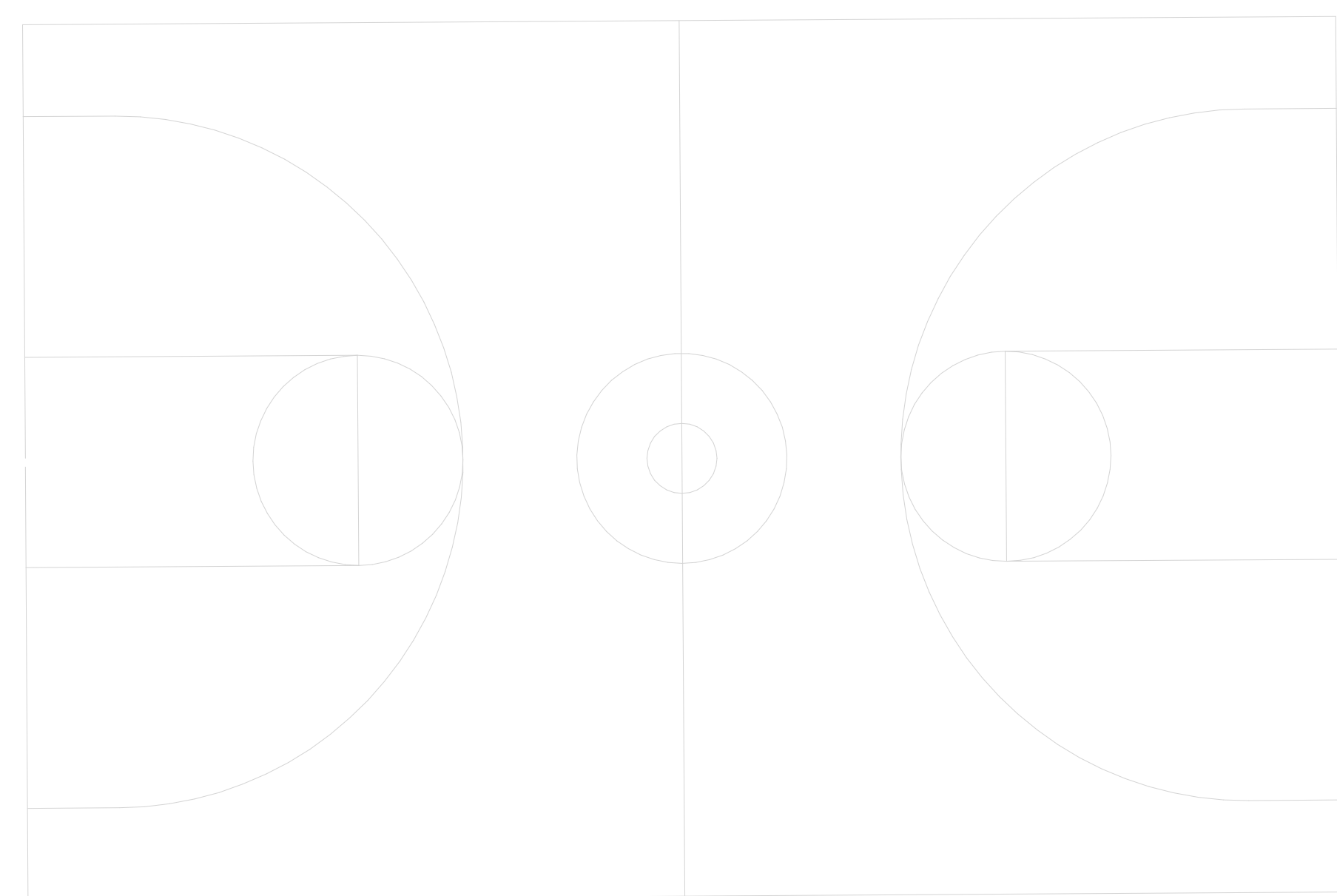
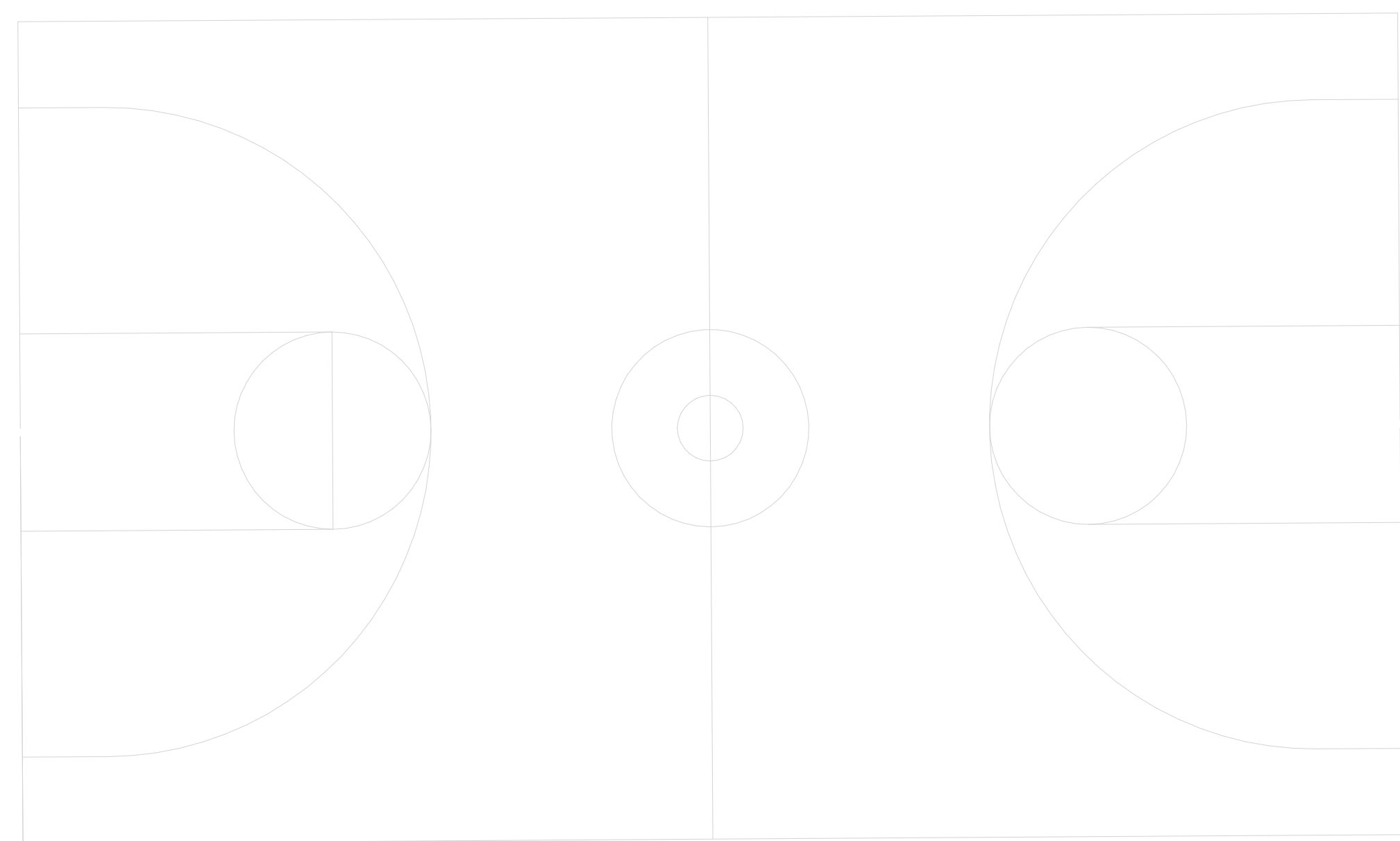
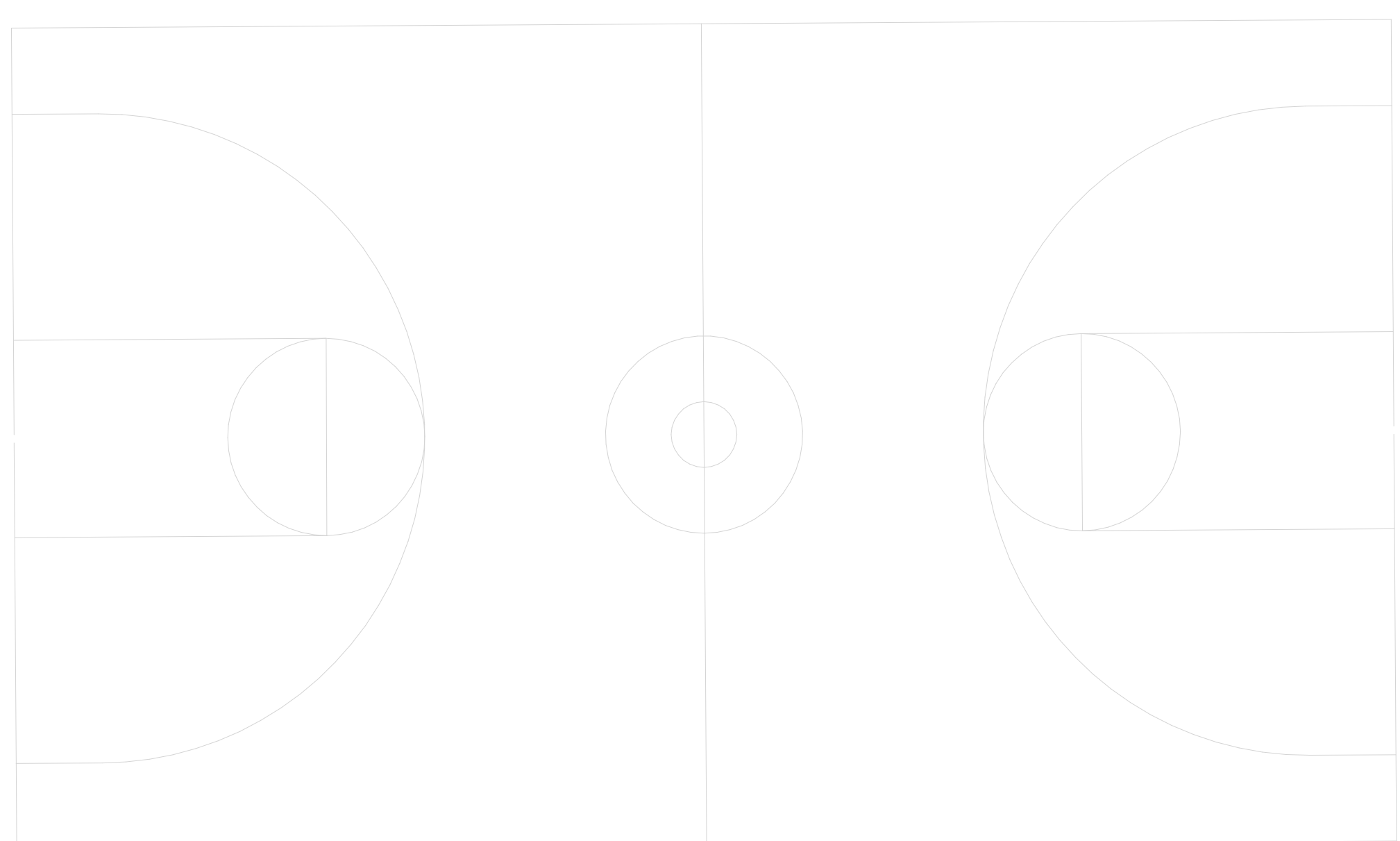
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

TELECOM DEMOLITION - REC CENTER
 SECOND FLOOR
 ① 1/8" = 1'-0"

PACKAGE 2 - IFB
 NOT FOR CONSTRUCTION
 08/28/23

6

EXISTING POLE



A

TELECOM DEMOLITION - REC CENTER
SITE PARTIAL PLAN
1/8" = 1'-0"

GENERAL DEMOLITION NOTES:
1. CONTRACTOR MUST DEMOLISH EXISTING DEVICES SHOWN AND ASSOCIATED CABLING BACK TO SOURCE.

REVISIONS

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	06/02/23	ISSUE FOR BID



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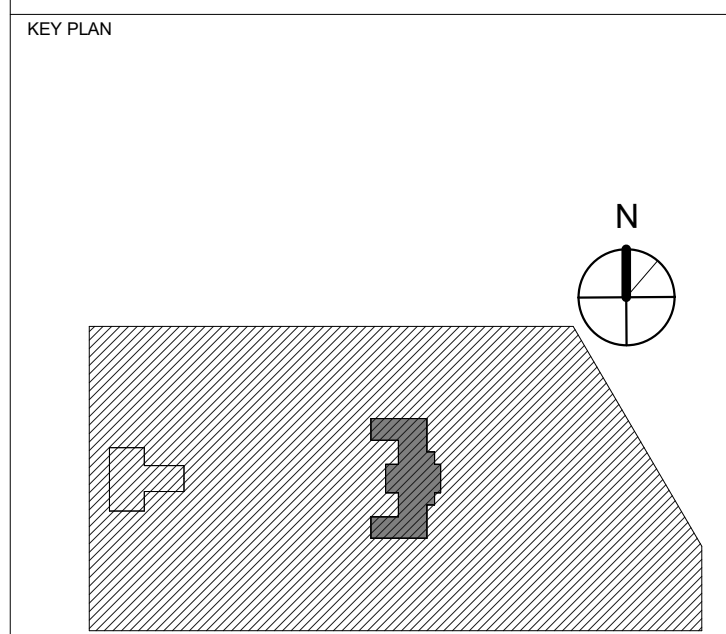
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PROJECT TITLE
**KINGSESSING RECREATION
CENTER BUILDING AND SITE
IMPROVEMENTS**



DRAWING TITLE
**TELECOM DEMOLITION -
SITE**

PROJECT NO.	21070	DRAWING NO.	TD-103-R
DATE	08/28/23		
SCALE	1/8" = 1'-0"		
DRAWN BY	EEH		
CHECKED BY	DB		

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

PACKAGE 2 - IFB
NOT FOR CONSTRUCTION
08/28/23