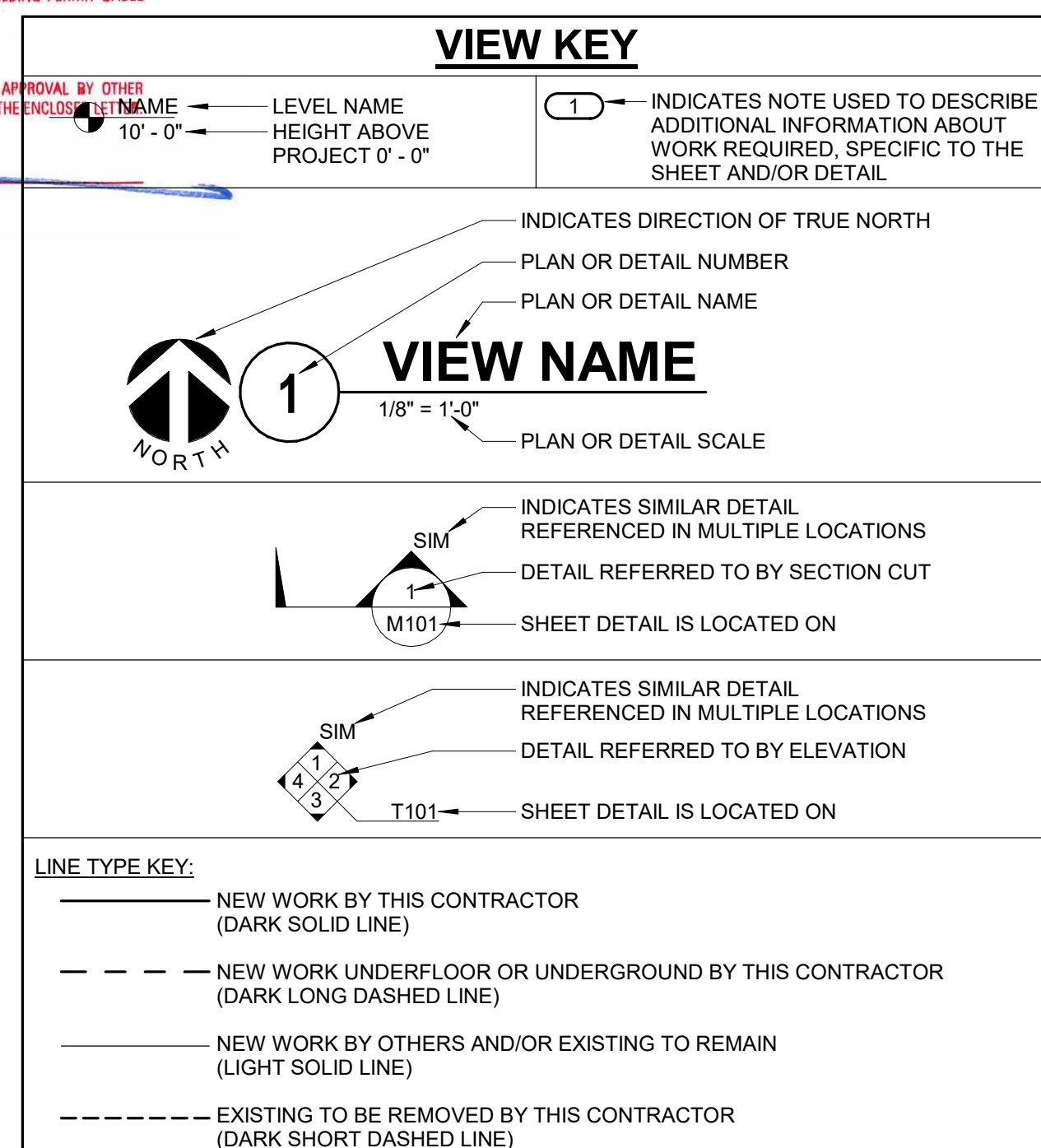


8/20/2020

UPON THESE PLANS IS RECOMMENDED SUBJECT TO APPROVAL BY OTHER APPLICABLE AGENCIES AND ANY CONDITIONS NOTED IN THE ENCLOSURE. THE CODE GROUPING IS THE CODE GROUPING.



<b>TC</b>	TIME CLOCK	<b>TIM</b>	TELEPHONE INTERFACE MODULE
<b>A</b>	AQUA STAT	<b>AUX</b>	AUXILIARY MODULE
<b>B</b>	DOOR BELL	<b>SC</b>	SATELLITE CONTROLLER
<b>ES</b>	EMERGENCY SWITCH	<b>S</b>	SATELLITE SPEAKER
<b>CI</b>	COMPANY INDICATOR	<b>OSC</b>	OUTSIDE SATELLITE CONTROLLER
<b>TT</b>	TURNOUT TIMER	<b>OS</b>	OUTSIDE SPEAKER - IN CONJUNCTION WITH <b>OSC</b>
<b>DR</b>	DORM REMOTE	<b>SW</b>	SPEAKER SWITCH
<b>DL</b>	DORM LIGHT	<b>FSAS</b>	ALERT SYSTEM STROBE CONTROLLER
<b>FSLS</b>	FSAS STROBE LIGHT	<b>ACD</b>	APPLIANCE DEVICE CONTROLLER
<b>RB</b>	APPLIANCE RESET BUTTON	<b>HPA</b>	HIGH-POWER PAGING AMPLIFIER & SPEAKER
<b>CR</b>	CONTROL REMOTE	<b>DUAL HPA</b>	HIGH-POWER PAGING AMPLIFIER & SPEAKER
<b>PM</b>	POWER MODULE & UPS		
<b>MCU</b>	MASTER CONTROL UNIT		

### TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE:
	AC-CR1-W	CREDENTIAL READER - TYPE 1	2.
	N/A	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	3.
	SC-IO-W	INFORMATION OUTLET ROUGH-IN (WALL)	
	SC-IO-W	INFORMATION OUTLET ROUGH-IN (WALL)	
	SC-IO-W	WALL PHONE ROUGH-IN (WALL)	
	PA-S1-C	FACILITY PAGING SPEAKER - TYPE 1 (CEILING)	
	PA-H1-W	PA LOUD SPEAKER HORN - TYPE 1 (WALL)	
	IC-IM	INTERCOM MASTER STATION	
	IC-IS	INTERCOM STATION	
	ID-MD-W	MOTION DETECTOR (WALL)	
	ID-MD-C	MOTION DETECTOR (CEILING)	
	ID-IMP-W	INTRUSION DETECTION SECURITY KEYPAD (WALL)	
	VS-CAM-W	CLOSED CIRCUIT TELEVISION (CCTV) WALL CAMERA	3, 4.
	CC-C1-W	CLOCK (WALL) TYPE 1	
	SC-IO-FB	INFORMATION OUTLET FLOOR BOX	

SYMBOL:	DESCRIPTION:
	CABLE TRAY, CHANNEL TRAY, BASKET TRAY
	LADDER RACK
	CONDUIT
	CONDUIT DOWN
	CONDUIT UP OR UP/DOWN
	CONDUIT SLEEVE
	CONTINUATION

**GENERAL NOTES:**

- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
- ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
- ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.

**TECHNOLOGY SYMBOL NOTES:**

- SYMBOL SUBSCRIPT INDICATES DEVICE TYPE. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.
- REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.
- REFER TO CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE ON T600 AND CAMERA TYPE SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. SYMBOL SUBSCRIPT INDICATES FLOOR NUMBER-CAMERA NUMBER. A CAMERA HEIGHT IDENTIFIES THE HEIGHT FROM THE FLOOR TO THE CENTER OF THE CAMERA LENS. NO HEIGHT REFERS TO MOUNTING THE CAMERA ON THE CEILING. REFER TO THE INDIVIDUAL CAMERA SCHEDULE AND THE INDIVIDUAL CAMERA TYPE SCHEDULE FOR ADDITIONAL INFORMATION.
- SYMBOL SUBSCRIPT INDICATES PAGING ZONE.
- EXISTING TO REMAIN OR DEMO.

### TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
C	CONDUIT
J-BOX	JUNCTION BOX
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
EF-#	ENTRANCE FACILITY
MC-#	MAIN CROSS-CONNECT
TR-#	TELECOMMUNICATIONS ROOM

### SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3, 4.
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2, 4.
TELECOMMUNICATION SYSTEMS	T-SERIES	E.C.	E.C.	1.
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2, 4.

### SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
- ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
- UNLESS TRADE RULES DICTATE OTHERWISE.
- FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
- INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
- REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

### TELECOM ROOM REFERENCES

TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER
DATA ROOM	1/T500	T0.01	105

### TECHNOLOGY GENERAL NOTES:

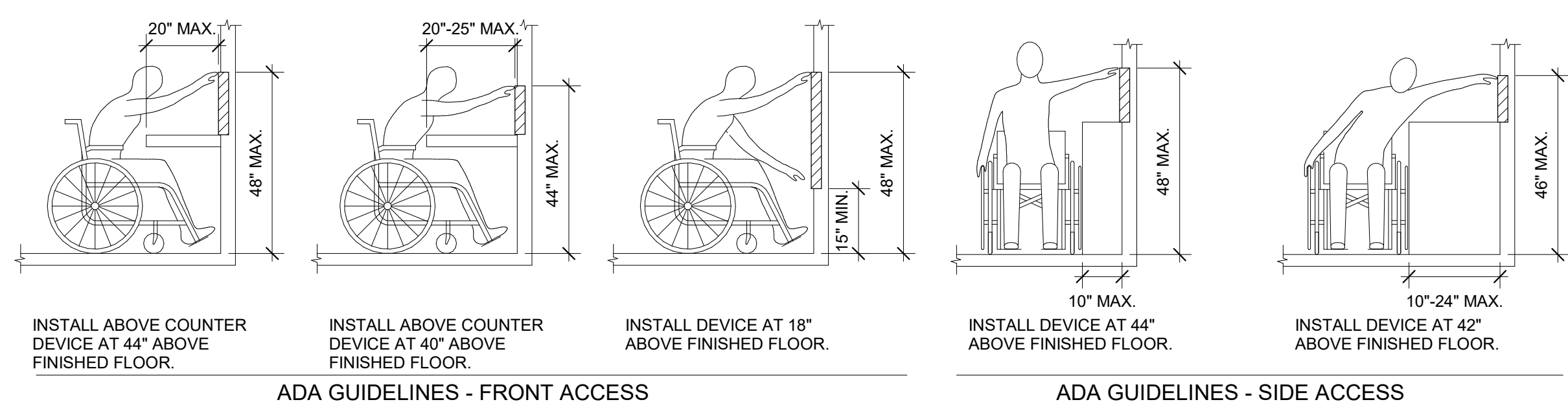
- INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
  - REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
- TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
  - H MOUNT ORIENTED HORIZONTALLY
  - L MOUNT IN CASEWORK
  - M MOUNT IN MODULAR FURNITURE
  - S MOUNT IN SURFACE RACEWAY
- A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., AH.

### TECHNOLOGY INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAIL ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
- BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPPS. REFER TO 07 05 03 AND 28 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
- FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.

### TECHNOLOGY SHEET INDEX

T000	TECHNOLOGY COVERSHEET
T0.00	SITE PLAN
T0.01	FLOOR PLANS
T500	ENLARGEMENTS AND DETAILS
T600	SCHEDULES



### ADA STANDARDS FOR ACCESSIBLE DESIGN

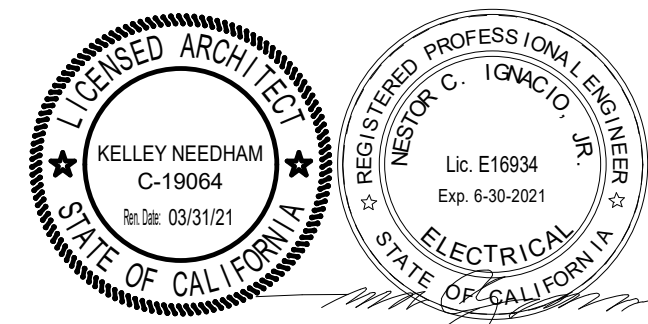
ARCHITECTS

# WLC

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 PROJECT # 1901684.00

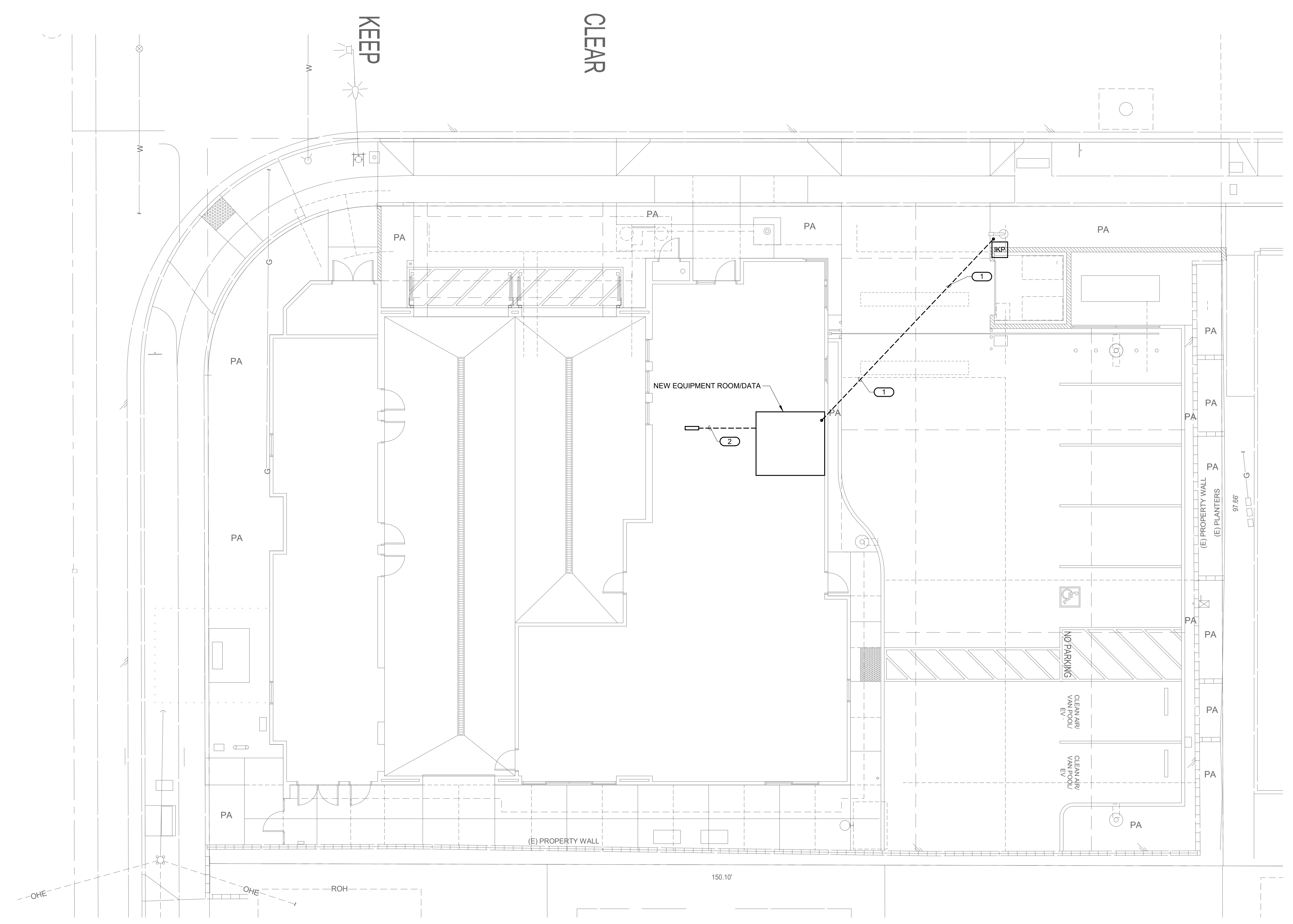
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REVISIONS			

DRAWN: Author	CHECKED: Checker
DATE: 04/20/2020	SCALE: As indicated
PROJECT NUMBER: 19001684.00	

### TECHNOLOGY COVERSHEET

DRAWING NUMBER: **T000**  
 sheet 103 of 132

**REVIEWED BY CONSULTANT FOR CODE COMPLIANCE**  
 THESE PLANS AND SUPPORTING DOCUMENTATION HAVE BEEN REVIEWED AND FOUND TO SHOW COMPLIANCE WITH THE CALIFORNIA BUILDING CODE AS ADOPTED BY THIS JURISDICTION, SUBJECT OF A BUILDING PERMIT BASED ON 8/20/2020  
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**VCA**  
 THE WIDE GROUP, INC.

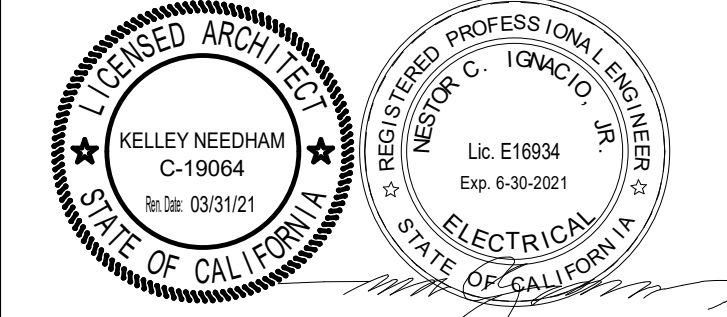


- KEYNOTES:**
1. PROVIDE (1) 2" UNDERGROUND CONDUIT STUB UP INTO THE NEW EQUIPMENT ROOM AND FIELD VERIFY THE KEYPAD LOCATION BEFORE INSTALLATION.
  2. PROVIDE (1) 1" CONDUIT FROM THE GATE CONTROLLER IN ROOM 104 TO THE NEW EQUIPMENT ROOM. CONTRACTOR TO FIELD VERIFY BEFORE INSTALLATION.



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 REFERENCE SCALE IN INCHES  
 0 1 2 3

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: Author      CHECKED: Checker  
 DATE: 04/20/2020      SCALE: 1/8" = 1'-0"  
 PROJECT NUMBER: 19001684.00

**SITE PLAN**

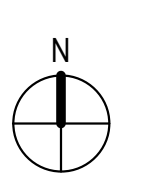
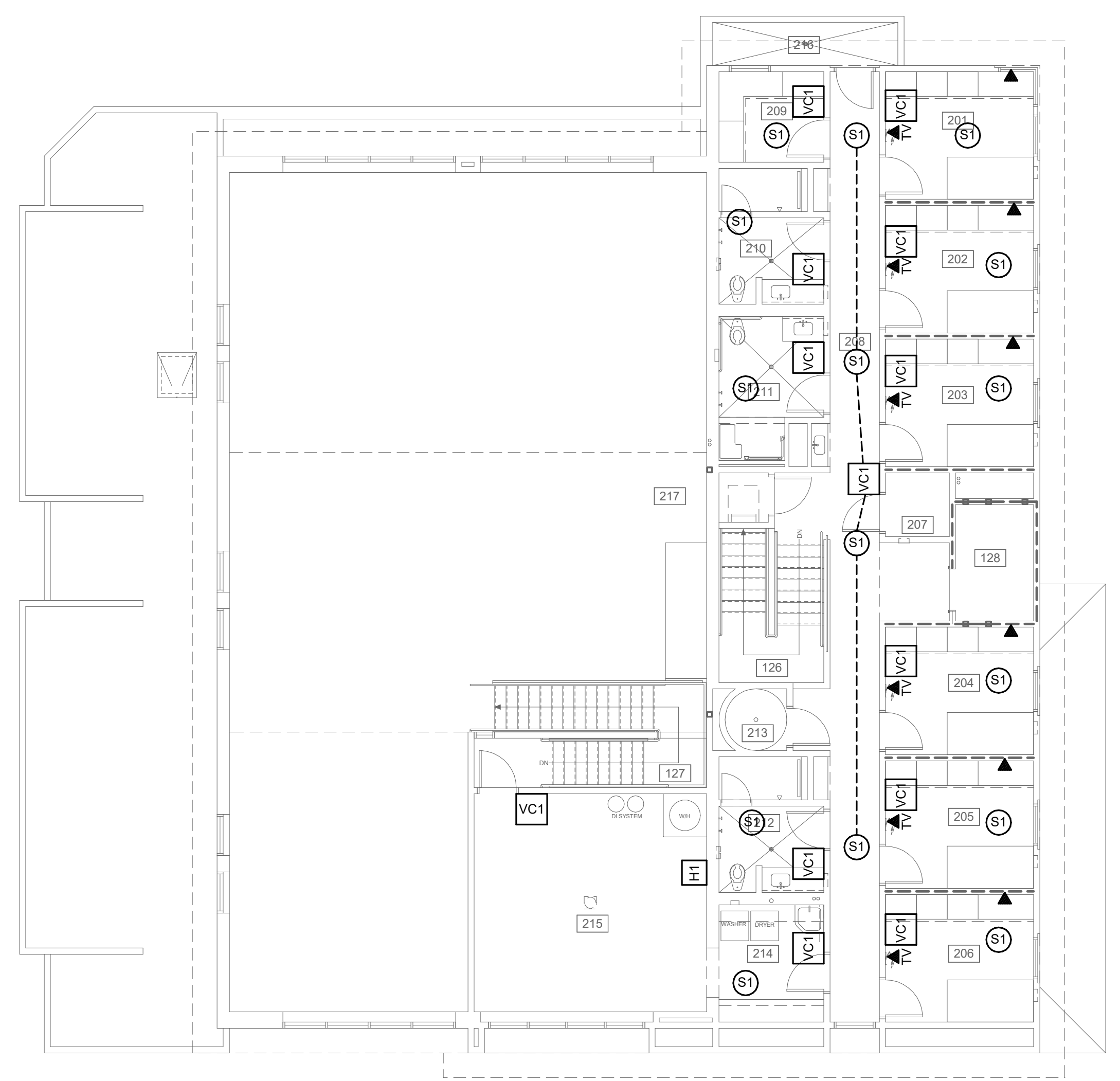
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 SHEET 104 OF 132

**SITE PLAN**    1/8" = 1'-0"    1

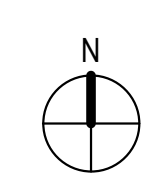
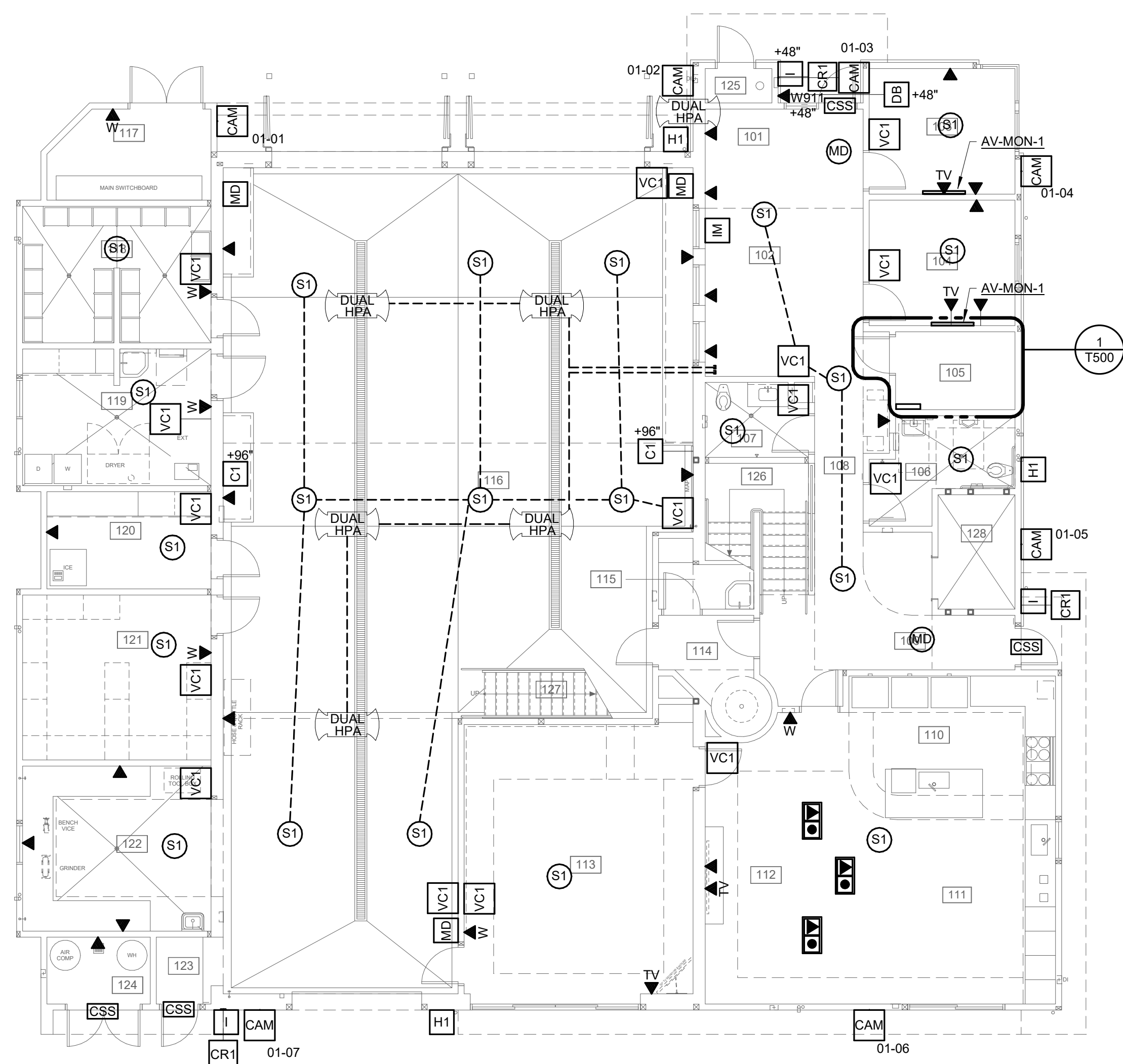
SECOND BUILDING SUBMITTAL

REVIEWED BY CONSULTANT FOR CODE COMPLIANCE  
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SECOND FLOOR PLAN 1/8" = 1'-0" 2



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

- CR1** PROVIDE (1) 4 1/8 X 2 1/2 SQ SINGLE GANG BOX AT 48" WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION
- CSS** THESE WILL BE FIELD VERIFIED BEFORE INSTALLATION
- ▼** PROVIDE (1) 4 1/8 X 2 1/2 SQ SINGLE GANG BOX AT 18" WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION
- TV** PROVIDE (1) 4 1/8 X 2 1/2 SQ SINGLE GANG BOX AT 60" WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION
- W** PROVIDE (1) 4 1/8 X 2 1/2 SQ SINGLE GANG BOX AT 48" WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION
- S1** THESE CEILING SPEAKERS WILL BE FIELD VERIFIED BEFORE INSTALLATION
- H1** PROVIDE (1) 4 1/8 X 4 1/8 SQ SINGLE GANG BOX AT 18" WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION
- IB#** INSTALLED IN THE NEW MDF LOCATION ROOM 106.
- I** PROVIDE (1) 4 1/8 X 2 1/2 SQ SINGLE GANG BOX AT 48" WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION
- MD** THE WALL MOUNT MOTION DETECTORS WILL NEED TO BE FIELD VERIFIED BEFORE INSTALLATION
- MD** THE CEILING MOUNT MOTION DETECTORS WILL NEED TO BE FIELD VERIFIED BEFORE INSTALLATION
- KP** PROVIDE (1) 2" UNDERGROUND CONDUIT FOR ROOM 1006 TO EXTERIOR LOCATION FOR THE GATE KEYPAD LOCATION. FIELD VERIFY BEFORE INSTALLATION.
- CAM** PROVIDE (1) 4 1/8 X 4 1/8 SQ SINGLE GANG BOX FOR VIDEO CAMERA LOCATION WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION. FIELD VERIFY THE HEIGHT OF THE CAMERA BEFORE INSTALLATION.
- C1** PROVIDE (1) 4 1/8 X 2 1/2 SQ SINGLE GANG BOX WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION AND HEIGHT FOR MOUNTING
- DB** EXTERIOR DOOR BELL, PROVIDE (1) 4 1/8 X 2 1/2 SQ SINGLE GANG BOX AT 48" WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION.

**DUAL HPA** HIGH - POWER PAGING AMPLIFIER AND SPEAKERS PROVIDE (1) 4 1/8 X 4 1/8 SQ SINGLE GANG BOX LOCATION WITH (1) 1" CONDUIT BACK TO ROOM 106. FIELD COORDINATE LOCATION. FIELD VERIFY THE HEIGHT OF THE SPEAKER BEFORE INSTALLATION

**W911** 911 WALL PHONE, PROVIDE (1) 4 1/8 X 2 1/2 SQ SINGLE GANG BOX AT 48" WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION.

**VC1** WALL MOUNTED VOLUME CONTROL, PROVIDE (1) 4 1/8 X 2 1/2 SQ SINGLE GANG BOX AT 48" WITH (1) 1" CONDUIT STUBBED UP INTO CEILING SPACE. FIELD COORDINATE LOCATION.

NOTE: SYMBOLS ARE DIAGRAMMATIC ONLT. SCOPE OF WORK ARE CONDUIT AND BOXES ONLY.

**VO** INFORMATION OUTLET FLOOR BOX



ROOM #	ROOM NAME	ROOM #	ROOM NAME
101	LOBBY	126	STAIR 1
102	CREW WORKSTATIONS	127	STAIR 2
103	CAPTAIN'S OFFICE	128	ELEVATOR
104	SPARE OFFICE		
105	DATA ROOM		
106	ACCESSIBLE RESTROOM	201	CREW DORMITORY 1
107	STAFF RESTROOM	202	CREW DORMITORY 2
108	HALLWAY	203	CREW DORMITORY 3
109	HALLWAY	204	CREW DORMITORY 4
110	KITCHEN	205	CREW DORMITORY 5
111	DINING ROOM	206	CREW DORMITORY 6
112	DAY ROOM	207	STORAGE
113	EXERCISE ROOM	208	HALLWAY
114	VESTIBULE	209	STORAGE
115	JANITORIAL	210	CREW BATHROOM 1
116	APPARATUS ROOM	211	CREW BATHROOM 2
117	ELECTRICAL ROOM	212	CREW BATHROOM 3
118	TURN-OUT LOCKER RM.	213	SLIDE POLE
119	LAUNDRY ROOM	214	LAUNDRY ROOM
120	MEDICAL STORAGE	215	STORAGE
121	STORAGE	216	BALCONY
122	WORKSHOP		
123	VESTIBULE		
124	COMPRESSOR ROOM		
125	FIRE RISER ROOM		

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: Author CHECKED: Checker  
 DATE: 04/20/2020 SCALE: As indicated  
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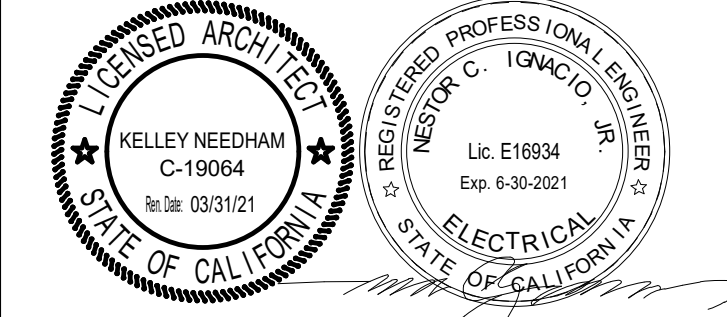
**FLOOR PLANS**

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 SHEET 105 OF 132

**ARCHITECTS**  
**WLC**  
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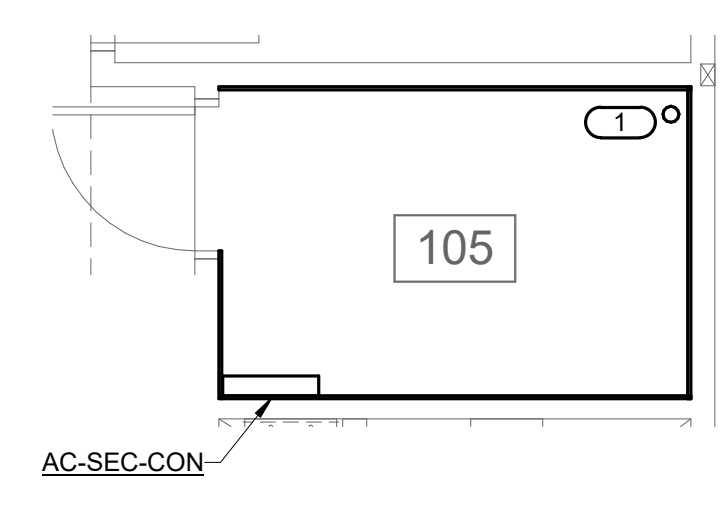
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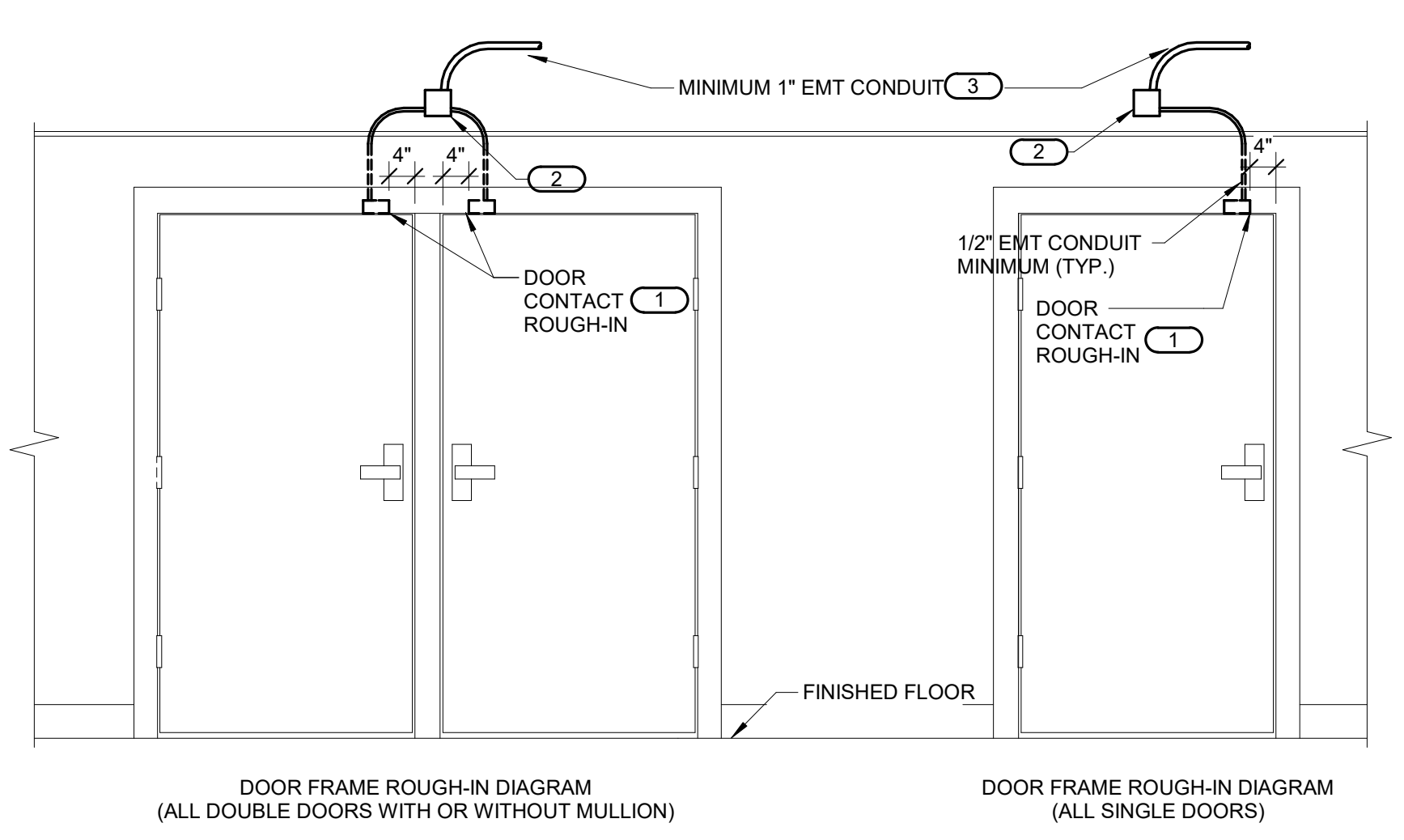
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VCA  
 THE WIDE GROUP, INC.



**1 EQUIPMENT ROOM LAYOUT-DATA ROOM**  
 1/4" = 1'-0"

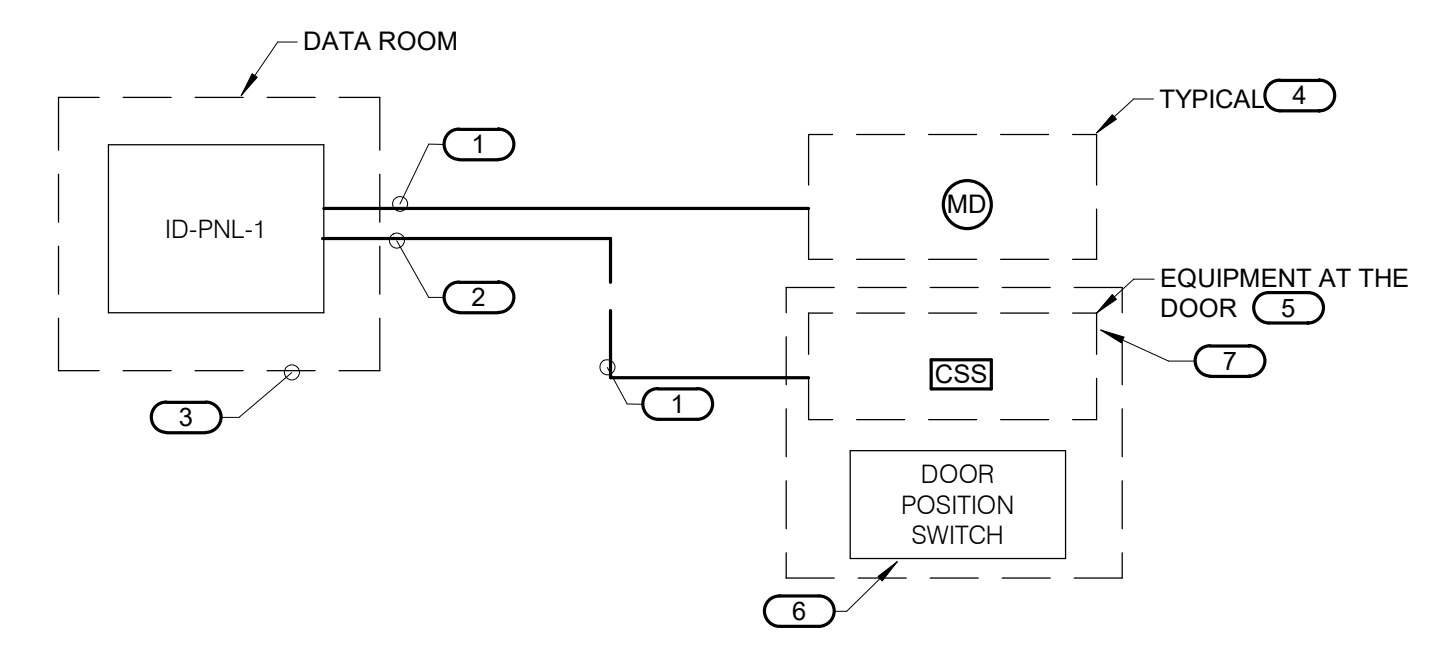
- KEYNOTES:** (# #)
- 1. (1) 2" UNDERGROUND STUB UP CONDUIT FROM GATE KEYPAD LOCATION.



**2 CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL**  
 NO SCALE

- NOTES:**
- CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC. INTENDED TO DESCRIBE THE CONTROLLED SECURITY SCHEME ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED.
  - ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL CONTROLLED SECURITY SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND CONTROLLED SECURITY DEVICES AND CABLING PRIOR TO INSTALLATION.
  - ALL CABLING IN WALLS AND WHERE EXPOSED ON VERTICAL SURFACES SHALL BE INSTALLED IN EMT CONDUIT OR SURFACE MOUNT RACEWAY. CABLING ROUTED HORIZONTALLY ABOVE THE ACCESSIBLE CEILING MAY BE INSTALLED FREE-AIR CABLING PROPERLY RATED FOR THE CEILING ENVIRONMENT.
  - THE ELECTRICAL OR SECURITY CONTRACTOR SHALL NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING JURISDICTION (LAH).
  - INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL CONTROLLED SECURITY SCHEME ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
  - REFER TO THE CONTROLLED SECURITY SCHEME WIRING DIAGRAM ON TXXX FOR CABLING REQUIREMENTS AND THE CONTROLLED SECURITY SCHEME SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.
  - INSTALLATION SHALL INCLUDE ALL POWER REQUIRED FOR SYSTEM OPERATION INCLUDING +120VAC. REFER TO THE SUGGESTED MATRIX OF SCOPE RESPONSIBILITY FOR ADDITIONAL INFORMATION.

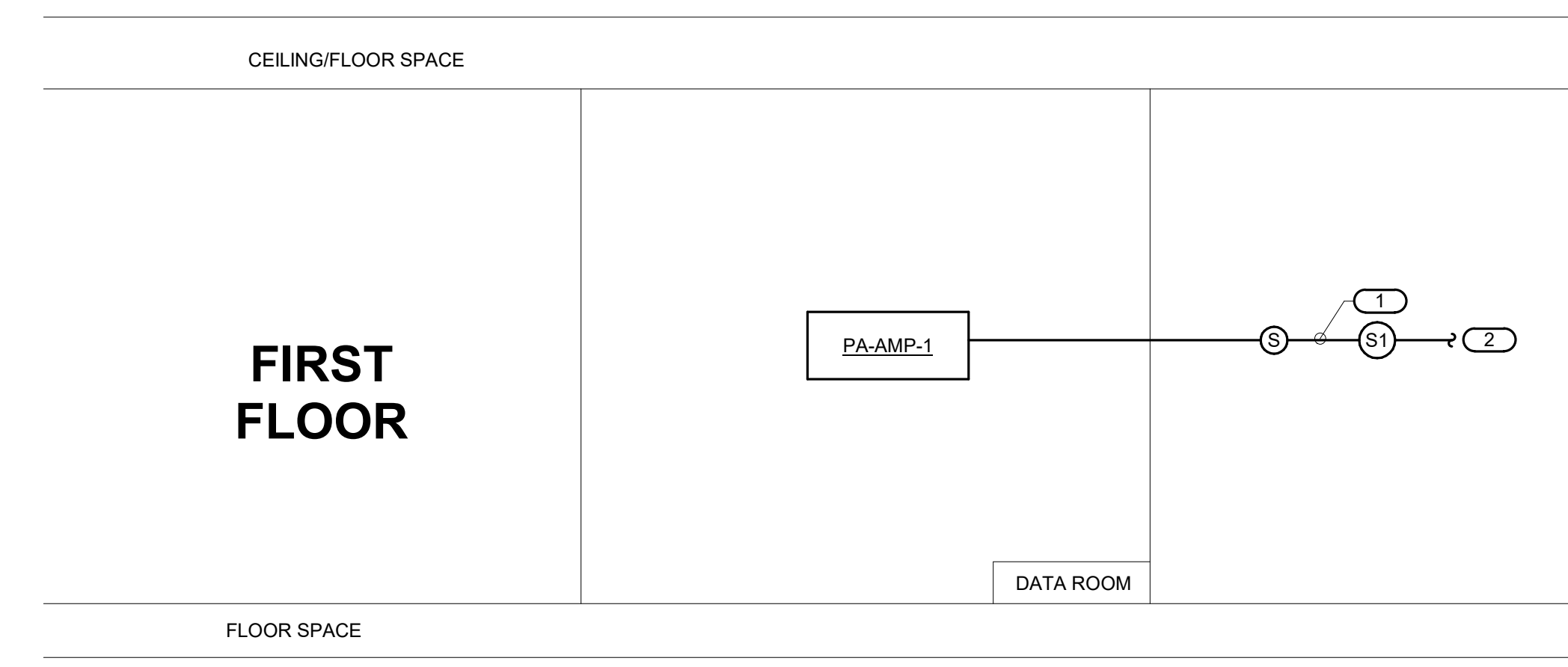
- KEYNOTES:** (# #)
- ALL DOOR POSITION SWITCHES ARE REQUIRED TO BE RECESSED UNLESS OTHERWISE NOTED. ELECTRIC HINGE MONITORS ARE NOT AN ACCEPTABLE REPLACEMENT FOR THE RECESSED DOOR POSITION SWITCH.
  - MOUNT A MINIMUM 4" SQUARE 2-1/8" DEEP JUNCTION BOX WITH BLANK COVER PLATE ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING. INSTALLING CONTRACTOR SHALL SIZE THE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES. MAINTAIN ACCESS TO THE JUNCTION BOX.
  - CONDUIT SHALL ROUTE (A MINIMUM OF 12" FROM THE JUNCTION BOX, IT TO THE NEAREST TELECOM ROOM, IT TO NEAREST CABLE TRAY, IT TO THE NEAREST SECURITY PANEL, IT TO THE MAIN TELECOM ROOM) PROVIDE A NYLON BUSHING ON CONDUIT END.



**3 INTRUSION DETECTION RISER DIAGRAM**  
 NO SCALE

- NOTES:**
- PRIOR TO THE START OF ANY WORK ON THE INTRUSION DETECTION SYSTEM WORK WITH THE OWNER TO DETERMINE THE REQUIREMENTS OF THE SYSTEM. PROVIDE A WRITTEN LETTER THAT IS SIGNED BY BOTH THE OWNER AND THE CONTRACTOR ON AN AGREED STATUS OF THESE SYSTEMS. THE LETTER WILL INCLUDE THE STATUS OF ANY WORKING/NON-WORKING DEVICES, CABLING STATUS, SOFTWARE STATUS, NETWORK STATUS, AND FUNCTIONALITY STATUS. ANY CHANGES TO THE SYSTEM AS A RESULT OF CONSTRUCTION BY ADDING TO THE SYSTEM WILL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REFER TO THE SPECIFICATION SECTION 28 16 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
  - THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTIONS, LOCATIONS, AND CABLE TYPE. THIS RISER WILL NOT REPLICATE ALL DEVICE CONFIGURATIONS. REFER TO SPECIFICATION SECTION 28 16 00 FOR ADDITIONAL REQUIREMENTS.
  - ALL SECURITY CABLES SHALL BE INSTALLED IN CABLE SUPPORTS ACCESSIBLE CEILING. UNLESS OTHERWISE NOTED ON THE FLOOR PLANS.
  - ALL CABLING LISTED HERE ARE MINIMUM REQUIREMENTS. FINAL CABLE GAUGE IS BASED ON THE DISTANCE FROM THE NEAREST CONTROL PANEL.

- KEYNOTES:** (# #)
- A MINIMUM 18-GAUGE, 4-CONDUCTOR, UNSHIELDED PLENUM RATED CABLING. REFER TO SPECIFICATION SECTION 28 16 00 FOR ADDITIONAL INFORMATION.
  - A MINIMUM 18-GAUGE, 2-CONDUCTOR, UNSHIELDED PLENUM RATED CABLE. REFER TO SPECIFICATION SECTION 28 16 00 FOR ADDITIONAL INFORMATION.
  - REFER TO THE FLOOR PLANS AND ENLARGED PLANS FOR THE INTRUSION DETECTION PANEL LOCATIONS.
  - REFER TO THE FLOOR PLANS FOR DEVICE LOCATIONS.
  - THIS CONNECTION IS TYPICAL OF ALL DOORS WITH A CONTROLLED SECURITY SCHEME DOOR TAG (ONE FOR SINGLE DOOR APPLICATIONS AND TWO FOR DOUBLE DOOR APPLICATIONS). REFER TO THE FLOOR PLANS AND THE CONTROLLED SECURITY SCHEME SCHEDULE ON T600 FOR ADDITIONAL INFORMATION AND DOORS THAT REQUIRE THIS CONNECTION.
  - TYPICAL OF THE QUANTITY OF DOORS AT EACH LOCATION. FOR SINGLE DOOR APPLICATIONS CONNECT TO A DEDICATED SPDT DOOR POSITION SWITCH. FOR DOUBLE DOOR APPLICATIONS INCLUDE THE SPDT DOOR POSITION SWITCH CONNECTION AND THE SECOND DOOR WILL UTILIZE THE SECOND PULL ON THE DPDT DOOR POSITION SWITCH. REFER TO THE FLOOR PLANS AND THE CONTROLLED SECURITY SCHEME SCHEDULE ON T02 FOR ADDITIONAL INFORMATION AND DOORS THAT REQUIRE THIS CONNECTION.
  - REFER TO THE FLOOR PLANS AND THE CONTROLLED SECURITY SCHEME SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.



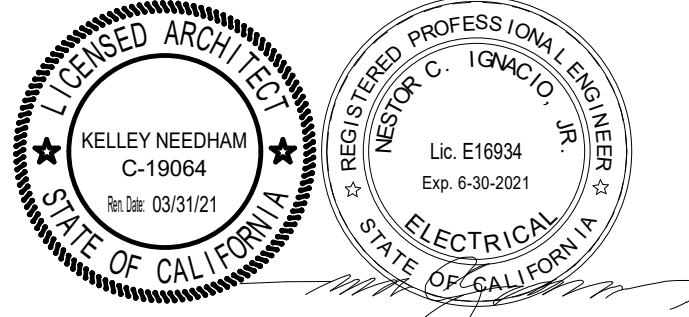
**4 OVERHEAD PAGING AND SYSTEM RISER DIAGRAM**  
 NO SCALE

- NOTES:**
- THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  - HORIZONTAL SPEAKER CABLING CONNECTING SPEAKERS AND VOLUME CONTROLS MAY BE TAPPED ONLY AT SPEAKER AND VOLUME CONTROL LOCATIONS. ALL HORIZONTAL SPEAKER CABLING CONNECTIONS SHALL BE MADE IN COVERED DEVICE BOXES OR JUNCTION BOXES. CONTRACTOR SHALL SIZE DEVICE BOXES AND JUNCTION BOXES PER APPLICABLE CODES FOR THE AMOUNT OF CABLING SERVED. MAINTAIN CONTINUITY OF DRAIN CONDUCTOR BETWEEN SECTIONS OF HORIZONTAL SPEAKER CABLE AT ALL CONNECTION POINTS. BACKBONE CABLES SHALL NOT BE SPLICED.
  - ALL NECESSARY CONNECTIONS TO BE COMPLETED BY THIS CONTRACTOR.

- KEYNOTES:** (# #)
- ONE (1) MINIMUM 18/2 SHIELDED CABLE, (PLENUM RATED). REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. FURNISH AND INSTALL LARGER-GAUGE CABLE WHERE NECESSARY TO MAINTAIN ACCEPTABLE VOLTAGE DROP AS DEFINED IN SPECIFICATIONS.
  - OVERHEAD PAGING SYSTEM DEVICES SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF SPEAKERS AND VOLUME CONTROLS.

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**ENLARGEMENTS AND DETAILS**

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**CCTV CAMERA TYPE SCHEDULE**

CAMERA TYPE CODE	CAMERA	CAMERA		LENS		ENCLOSURE	
		SENSOR SIZE	MAXIMUM RESOLUTION	SENSITIVITY TYPE	FEATURES	FEATURES	FEATURES
CAM 1	PTZ CAMERA FIXED CAMERA • 1/4" • 1/3" • 1/2" • 1/2"	2048	1536	• DYNAMIC LOW LIGHT • WIDE DYNAMIC RANGE • MINIMUM ILLUMINATION	SHUTTER SPEED 1/35500 - 1/6 s COMPRESSION CODEC H.264, MOTION JPEG MAXIMUM FRAME RATE • DAY/NIGHT • INFRARED UTP VIA BALLUN FIBER TXRX TERMINATION • DIGITAL ZOOM • WIRELESS • TCP/IP • CCD CMOS	• VARIOFOCAL • AUTO IRIS • AUTO ZOOM • MEGAPIXEL • DAY/NIGHT RECESSED DOME SURFACE MOUNTED DOME PENDANT MOUNTED DOME LINEAR CAMERA HOUSING • EXPOSED CAMERA • CEILING PENDANT • WALL PENDANT • WALL MOUNT • CEILING MOUNT POLE MOUNT CORNER MOUNT PARAFET MOUNT SPECIALTY HOUSING (SEE NOTES)	FINISH BLACK INDOOR (NEMA 1) OUTDOOR (NEMA3) • ENVIRONMENTAL (NEMA4) VANDAL PROOF (IEC 68 2 27) DETENTION GRADE • ENVIRONMENTAL SENSORS ENCLOSURE WIPER BLADE INTERNAL BLOWER/FAN SLIM SHIELD PRESSURIZED (NEMA9P) • SMOKED DOME
							BASIS OF DESIGN AXIS P3364-VE

**INDIVIDUAL CAMERA (CCTV) REQUIREMENTS SCHEDULE**

CAMERA #	CAMERA TYPE CODE	ROUGH-IN	
		ROUGH-IN ONLY	DETAIL REFERENCE
01-01	CAM 1		
01-02	CAM 1		
01-03	CAM 1		
01-04	CAM 1		
01-05	CAM 1		
01-06	CAM 1		
01-07	CAM 1		

**CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE**

DOOR #	ROUGH-IN ONLY	CREDENTIAL READER		INTEGRATION	REQUEST TO EXIT	DOOR HARDWARE		OTHER (REFER TO NOTES)
		CREDENTIAL READER TYPE	OPERATES MULTIPLE DOORS			DOOR HARDWARE	OTHER (REFER TO NOTES)	
101	CR1	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR						
109	CR1	WIRELESS						
123	CR1	AUTOMATIC DOOR OPERATOR						
124	CR1	ELEVATOR						

**GENERAL TECHNOLOGY EQUIPMENT SCHEDULE**

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

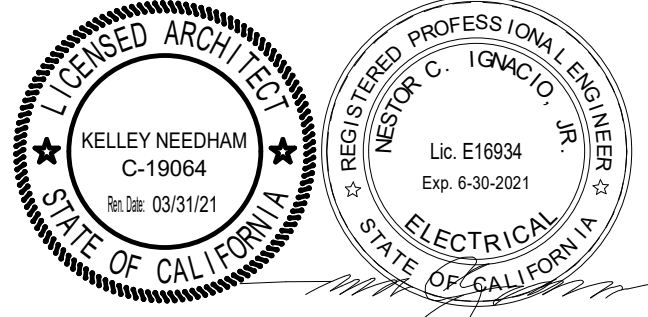
CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
AC-CR1-W	WIRELESS CREDENTIAL READER. REFER TO DOOR HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION ON TYPE. REFER TO THE SPECIFICATION SECTION 28 13 00 FOR COMPLETE DETAILS.	SCHLAGE AD-400 SERIES NO SUBSTITUTIONS
AC-SEC-CON	ACCESS CONTROL LOW VOLTAGE DOOR POWER SUPPLY. 16 PTC PROTECTED OUTPUTS. 24 VDC @ 8 AMP TOTAL OUTPUT. BUILT-IN CHARGER FOR LEAD ACID OR GEL TYPE BATTERIES. PROVIDE WITH (2) 12AH BATTERIES. AC FAIL SUPERVISION AND LOW BATTERY SUPERVISION FORM C CONTACT CLOSURES. UL 294 AND 1481 LISTED FOR ACCESS CONTROL AND FIRE SIGNALING.	ALTRONIX AL1024ULXP16CB LENEL
AV-MON-1	WALL MOUNTED ANALOG CLOCK.	
CC-C1	DOOR BELL. WALL MOUNTED.	
IC-IM-W	VIDEO INTERCOM SUB MONITOR STATION. COMMUNICATION: HANDS-FREE (VOX) OR PUSH-TO-TALK (SIMPLEX). VIDEO DISPLAY 3-1/2" DIRECT VIEW TFT COLOR LCD MONITOR. MOUNTING: SURFACE MOUNT DIRECTLY TO WALL ON 1-GANG BOX OR RING. WIRING: 4-CONDUCTORS, SOLID, NON-SHIELDED.	AIPHONE I JK SERIES (MASTER) JK-1HD (SUB-MASTER)
IC-IS	INTERCOM DOOR STATION. SURFACE MOUNT. WEATHER RESISTANT. MOUNTING ON 1-GANG BOX. PROVIDES COMMUNICATION AND CALL-IN FACILITY WITH MASTER STATION.	AIPHONE JK SERIES JK-DVF"
ID-MK-W	INTRUSION DETECTION KEYPAD.	DMP KX-08
ID-MD-C	INTRUSION DETECTION MOTION SENSOR 360, CEILING MOUNTED.	DMP CX-702
ID-MD-W	INTRUSION DETECTION MOTION SENSOR (LONG RANGE 150FTx8FT), WALL MOUNTED.	DMP IH5A
PA-H1-W	REENTRANT HORN WEATHERPROOF LOUD SPEAKER WITH HIGH INTELLIGIBILITY AND EFFICIENCY. 15 WATT CONTINUOUS POWER HANDLING AND NOMINAL FREQUENCY RESPONSE RANGE OF 300 HZ-12KHZ. DISPERSION ANGLE OF 130 DEGREE. PROVIDE 4" SQUARE BOX WITH SINGLE GANG VERTICAL RING AND 3/4" CONDUIT TO ACCESSIBLE CEILING.	BOGEN IH5A OR PREAPPROVED EQUAL
PA-S1-C	SPEAKER. 8" DUAL-CONE 4 WATT CAPACITY. 8 OZ OR 10 OZ CERAMIC MAGNET. 25 AND 70 VOLTS. PROVIDE BACK BOX AND MOUNTING HARDWARE AS NECESSARY FOR INSTALLATION IN LAY-IN CEILING AND WALL MOUNTED APPLICATIONS. REFER TO SPECIFICATION SECTION 27 51 13 FOR CONDUIT REQUIREMENTS.	ATLAS SOUND 61-8W
PA-V1-W	FACILITY PAGING VOLUME CONTROL. WALL MOUNT.	
SC-TTB	TELECOMMUNICATIONS TERMINAL BOARD. 4" X 8" X 3/4" A-C GRADE FIRE-RATED PLYWOOD. EXPOSED SIDE SHALL BE SMOOTH. MOUNT VERTICALLY WITH TOP OF PLYWOOD AT 86" A.F.F. ALL SIDES PAINTED WITH FIRE RETARDANT PAINT.	



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