



DATE: February 4, 2020

FROM: Van H. Gilbert Architect PC
2428 Baylor Drive SE
Albuquerque, NM 87106
(505) 247-9955

RE: ADDENDUM NUMBER 1 to the Bidding Documents for:
Albuquerque Public Schools Rio Grande High School
Title IX New Gymnasium and Various Athletic Facility Renovations

To Whom It May Concern:

This Addendum forms a part of the Contract Documents and modifies, as noted below, the original Bidding Documents identified as the Albuquerque Public Schools Rio Grande High School Title IX New Gymnasium and Various Athletic Facility Renovations

This Addendum consists of Twenty-eight (28) full size sheets and forty (40) 8-1/2 X 11 pages.

Bidder must acknowledge receipt of this Addendum on Bid Proposal.

I. INFORMATION AVAILABLE TO BIDDERS

- A. Sol Luna Solar Engineering Report, see attached Exhibit A (4 pages)
- B. APS Asbestos Consideration Reports, see attached Exhibit B (2 pages)
- C. PreProposal Meeting Minutes including sign in sheets, see attached Exhibit C (4 pages)
- D. Contractor Questions, see attached Exhibit D (2 pages)

II. SPECIFICATIONS

- A. Request for Proposals, Bid Proposal for Lump Sum Contract, page 2 of 3,
 - 1. Bid Lots, Item (4)
DELETE: Bid Lot No. 3
 - 2. Allowances, (1) Allowance No. 1
ADD: Allowance to be \$316,000. Additional information regarding coordination with Sol Luna will be issued in Addendum 2.
- B. Section 01 23 01, Bid Lots, Part 1.3, Schedule of Bid Lots
DELETE: Item C, Bid Lot No. 3
- C. Section 04 01 10, Masonry Cleaning
DELETE: Section 04 01 10 in its entirety.
- D. Section 10 44 00, Fire Protection Specialties
DELETE: Part 2.1, Fire Extinguishers. APS to furnish fire extinguishers. Contractor to furnish fire extinguisher cabinets.

III. DRAWINGS

- A. The General contractor shall utilize the attached Sound and Signal's [S&S] drawings, in addition to and in coordination with the Electrical sheets, to provide complete pricing for the provision and installation of all conduits/ pathways leading up to any and all devices depicted on S&S's drawings. See attached Exhibit E (twenty-eight (28) full size sheets).

- B. Sheet G-001, Cover Sheet (and Title Block on G and A Sheets)
 CHANGE: Project address from 2330 Arenal Road SW
 TO: 2300 Arenal Road SW
- C. Sheets A-101, A-102, A-103, A-104 and A-301, Specification Keynotes
 CHANGE: 11 66 23.08 & .08, Telescopic Seating
 TO: 12 66 00, Telescoping Stands

- D. Sheet A101, First Floor Plan – North Phase I
 - 1. DELETE: General Note C.
 - 2. Specification Keynote 11 66 23.12, Projector per APS
 ADD: Provide two (2) projectors; contractor furnished and contractor installed. See attached Exhibit F (12 pages) for basis of design, accessories and mounting.
 - 3. Specification Keynote 11 66 23.11, Projection Screen, see attached Exhibit G (13 pages) for basis of design.

- E. Sheet A-104 Second Floor Plan - South Phase I
 DELETE: General Note C.

- F. Sheet A-411, Interior Elevations – Phase I & II, Detail B5
 DELETE: By OFCI. Contractor to furnish refrigerator.

- G. Sheet A-301, Building Section – Phase I, Section A1 & C1
 CHANGE: 11 66 23.02, Portable Mechanical Backstop
 TO: 11 66 23.03, Forward Folding Backstop

- H. Sheet A-601, Room Finish Schedules, Room Finish Legend, Floors
 DELETE: F9, Alternate #1 Running Track

- I. Sheet A-611, Door Schedule – First Floor Phase I
 - 1. ADD: Door111 Frame Matl. HM
 - 2. ADD: Door111 Door Matl. HM
 - 3. ADD: Door111 Type. 2
 - 4. ADD: Door122 Door Matl. HM
 - 5. DELETE: Door 134.
 - 6. CHANGE: Door 167
 TO: Cubicle Curtain 167

- J. Sheet A-305, A3 Wall Section – Phase 1
ADD: Re-purposed Old Gym Floor – 1” Thick to North Wall Rm 205

IV. MECHANICAL – See attached Exhibit H (1 page)

V. APPROVED SUBSTITUTIONS

The following substitutions have been approved for use, as outlined in Section 01 63 00, Product Substitution Procedures. These approvals do not relieve the Contractor from any requirements originally stated in the Contract Documents for the original specification section. The Contractor is responsible for all manufacturers’ requirements related to the substitution. Where conflicts occur between the original specification and the substitution, the higher quality and quantity and the most stringent requirements shall be followed. Any conflict or problem with the substitution, with regard to interface with adjacent materials or substrates, shall be brought to the attention of the Architect immediately, in writing, with proposed method of meeting substitution requirements stated above.

- A. Section 07 42 13, Metal Wall Panels
 - 1. Fabral 7/8” Corrugated Metal Wall Panel is approved.
- B. Section 08 45 23, Insulated Fiberglass Sandwich Panel Assemblies
 - 1. Guardian 275 by Major Industries is approved.
 - 2. Kingspan Light + Air / CPI Daylighting, Inc. is not approved.
- C. 09 64 66 - Wood Athletic Flooring
 - 1. Connor Sports Duracushion I is approved.



PROJECT REPORT
VERSION:INT 06.15.18

12-18-19 2:53 PM

PROJECT TITLE: Rio Grande High School RM5
PROJECT ID: QR-20191218-6240

Name: Rio Grande High School RM5
Address: 2300 Arenal Rd SW
City, State: Albuquerque, NM 87105
Module: Canadian Solar CS3U-375M5
375 Watts

Designed By: ES
Product: RM5
375 Watt Panels
10211 Sq Ft.
145.1 kW

BILL OF MATERIALS

PARTS AND ACCESSORIES

Legend: Base System Part Accessory

Part Number	Part Type	Description	Quantity	Suggested Quantity	Unit Price (USD)	Total List Price (USD)
NA - User Supplied	Module	Module	387	387	NA	-
310800	BAY	RM5 BAY	584	584	26.73	15610.32
310820	ENDCLAMP	RM5/DT ENDCLAMP 32-40MM	2039	2039	1.94	3955.66
310860	NUT	RM5/DT 1/4-20 CLIP U-NUT SS18-8	3109	3109	0.32	994.88
310810	WIND DEFLECTOR	RM5 WIND DEFLECTOR, 84"	387	387	14.15	5476.05
310861	DEFLECTOR HARDWARE	RM5, WIND DEFLECTOR HDW KIT	1070	1070	0.21	224.70
310850	WIRE MGMT CLIP	RM5/DT WIRE MGMT CLIP	387	387	0.97	375.39
310851	WIRE MGMT CLIP	RM5 WD WIRE MGMT CLIP	39	39	0.81	31.59
310882	ATTACHMENT KIT	RM5 ATTACHMENT KIT	42	42	23.98	1007.16
NA - User Supplied	Ballast Block	32 lb. Concrete Block w/4x8x16 in. Nom. Dim. (ASTM C1491 (Concrete Roof Pavers))	704	704	NA	-
NA - User Supplied	Attachment	Attachment - Anchor Products - Mechanically Attached - U-2400 Anchor	42	42	NA	-
			BASE SYSTEM \$26261.61 \$0.19 PER WATT	PART ACCESSORY \$1414.14 \$0.01 PER WATT	TOTAL PRICE \$27675.75 \$0.2 PER WATT	

This design is to be evaluated to the product appropriate Unirac code compliant Installation Guide which references the ASCE 7-10. The installation of products related to this design is subject to requirements in the above mentioned Installation Guide.



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Designed By: ES
Product: RM5
375 Watt Panels
10211 Sq Ft.
145.1 kW

ENGINEERING REPORT

PLAN REVIEW

AVERAGE PSF:	4.85 psf
Total weight on roof:	49517 lbs
- Racking weight:	7716 lbs
- Module weight:	19273 lbs
- Ballast weight:	22528 lbs
- Max Bay Load (Dead):	138 lbs
- Down Wind (qh*GCp down):	21.91 psf
- Module Area:	21.4 sqft
- Max Bay Load (Dead+ 0.6 Wind):	419 lbs
- Max Bay Load (D+ 0.75S+ (.75*0.6)W):	557 lbs

Loads Used for Design

- Building Code:	ASCE 7-10
- Wind Speed:	120 mph
- Ground Snow Load:	20 psf
- Seismic (Ss):	0.46 g
- Wind Exposure:	C

INSPECTION

Product:	RM5 (5 Degree Tilt)
Module Manufacturer:	Canadian Solar
Model:	CS3U-375M5
Module Watts:	375 watts
Module Length:	78.74 in
Module Width:	39.06 in
Module Thickness:	1.38 in
Module Weight:	49.80 in
Module Type:	I

Ballast Block Weight:	32.0 lbs
Max Blocks per Bay:	2
Building Height:	40 ft
Roof Type:	TPO
Parapet Height:	2 Array Height
Row Spacing:	7.5 in

Roof Attachment: U-2400 by Anchor Products

WORKSPACE 1

AVERAGE PSF:	4.85
Total Number of Modules	387
Total KW:	145.1 kW
Total Area:	10211 Sq Ft.
Total weight on roof:	49517 lbs
- Racking weight:	7716 lbs
- Module weight:	19273 lbs
- Ballast weight:	22528 lbs

Minimum Seismic Separation (Unattached Arrays):

- Array to Array:	3 in
- To Obstruction or Parapet:	8 in
- To Roof Edge (No Parapet):	11 in

Max Array (Seismic) (For Unattached Arrays)

- NS Rows:	29
- EW Columns:	23



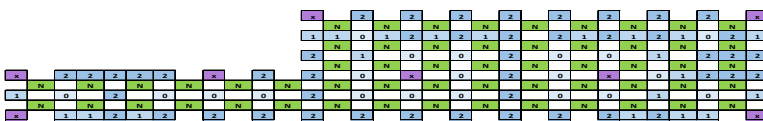
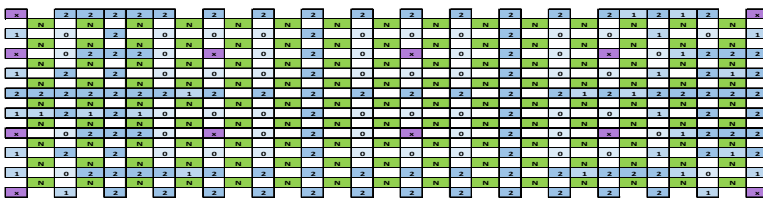
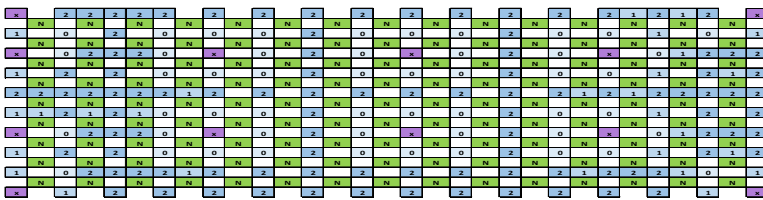
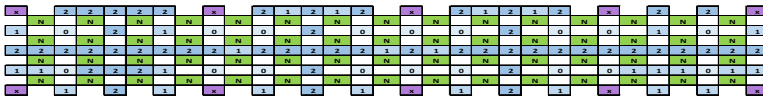
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INSTALLATION AND DESIGN PLAN



Legend	
M	Module with No Deflector
N	Module with North Deflector
S	Module with South Deflector
NS	Module with North and South Deflectors
2	Bay with Block Count
X	Bay with Attachment

ALBUQUERQUE PUBLIC SCHOOLS

MAINTENANCE AND OPERATIONS

Environmental Management Department

Exhibit B

915 Locust St SE
P.O. Box 25704
Albuquerque, New Mexico 87106
(505) 765-5950

JOHN DUFAY
EXECUTIVE DIRECTOR
MAINTENANCE & OPERATIONS

Asbestos Consideration Rio Grande High School #540 Partial Demolition of Gymnasium Building AC 7104

2/5/15

PROJECT:

This report is provided for the purposes of an asbestos consideration for the partial demolition of the Gymnasium Building. The auxiliary gymnasium will be renovated but not demolished.

ASBESTOS CONTAINING MATERIALS:

Asbestos-Containing Material (ACM), by definition, is any material that contains greater than 1% of any form of Asbestos. The following materials are ACM:

- **Various Types of Floor Tile and Mastic – East Hallways, Several Offices and Storage Rooms in the East Area, Weight Room and the Bottom of East and West Main Gym Stairwells (Asbestos Containing Material)**
- **Transite Panels – small section of South Overhang (Asbestos Containing Material)**
- **Mudded Insulation Fittings – throughout Building (Asbestos Containing Material)**
- **Mudded Tank and Fittings – Mechanical Room (Asbestos Containment Material)**

NON-ASBESTOS, NON-SUSPECT AND TRACE ASBESTOS MATERIALS:

Non-suspect materials and materials that were sampled and were reported to be Non-Asbestos containing or containing trace amounts of asbestos.

- *Texture and Sheetrock Ceilings and Walls – Non Asbestos Material*
- *Various Types of 2' x 4' Ceiling Tiles – Non Asbestos Material*
- *Plaster Ceilings, Soffits and Walls – Non Asbestos Material*
- *Light Weight Concrete Ceilings – Non-Suspect Material*
- *Texture on CMU Wall – Gym Balcony and Stairwells Only – Trace Asbestos Material*
- *Various Types of Basecove and Mastic - Non Asbestos Material*
- *Various Types of Floor Tile and Mastic in North and West Hallways, and in North and West Offices and Storage Areas – Non-Asbestos Material*
- *Fiberglass Insulation – Non-Suspect Material*

PRECAUTIONS:

As part of this report, you must be aware that there may be additional suspect materials not addressed in the initial inspection, i.e., Vermiculite in CMU walls and Thermal Systems Insulations. In the event

that any of these materials are discovered, under no circumstance is the Contractor to continue working in this area. All work impacting the suspect material will be halted until such time as the material can be sampled and analyzed.

The contractor shall be aware that asbestos abatement or any other related asbestos work is not included in this contract. This is for informational purposes only.

Additional Asbestos Considerations are as follows:

- a) There shall be no disturbance, cutting, encapsulating, removal, handling, disposal, transport, storage, or any other support activities involving asbestos work of any kind or nature.
- b) If in the course of his work the contractor's personnel should encounter existing material of a suspicious nature which might possibly contain asbestos, certain precautions shall be taken: All work in the vicinity of the questionable material shall be stopped immediately. The Contractor shall notify the APS designated Inspector who will take samples and have laboratory analyses performed unless previously identified. If asbestos is found to be present, the Inspector will direct procedures to be followed. Under no circumstance is the Contractor to continue working on construction involving such suspicious or questionable materials.
- c) If the Contractor finds it necessary to cut through a material which is known to contain asbestos, or finds it necessary to mount a bracket or support on such an existing surface, or has to remove a portion of such existing material, the Contractor shall notify the APS designated Inspector that some work is required in, on or through the material and identify exactly what needs to be done.
- d) The Contractor is cautioned that the Inspector may not always be able to schedule the support work by APS or Contracted abatement qualified personnel as quickly as the Contractor would like to see it done. The Contractor shall be prepared to work on other areas of construction until such scheduled asbestos work by APS or Abatement Contractor is completed. Reasonable delays due to scheduling are to be anticipated and will not be justification for additional compensation to the Contractor.

Andrew Roark

Environmental Inspector, EMD

CONFIRMATION NOTICE

VAN H. GILBERT ARCHITECT PC
2428 Baylor Drive SE
Albuquerque, NM 87106

Exhibit C

Project: Albuquerque Public Schools
Rio Grande High School – New Gym

Report No: 1
Project No: 20501

Date: 01/29/2020
Time: 10:00 am - 11:00 am

Any disagreement with the information contained herein should be brought to the attention of this office immediately

[XX] Conference: RGHS

PARTICIPATING PERSONNEL: See attached sign-in sheet

SUBJECTS DISCUSSED: Preproposal Conference, see attached Agenda

1. The project consists of:
 - a. Base bid is demolition of the main gymnasium and construction of the new gymnasium, demolition in areas of the auxiliary gym and new construction.
 - b. Bid Lot 1, Concessions and Parking
 - c. Bid Lot 2, Turn-Key Photo Voltaic System
 - d. Bid Lot 3, Landscape. Bid Lot 3 will be deleted from the project. The work shown on Sheet LS 101 will be done by an APS on-call landscape contractor, but the general contractor is responsible for coordinating irrigation sleeve installation and must provide two day’s minimum notice for all sleeve installation. The general contractor is to coordinate with APS to avoid damaging existing water lines.
 - e. Allowance No. 1: Coordinate with APS contractor for Bid Lot 2 PV system. Amount to be determined and issued in Addendum.

2. The RFP Schedule is as follows:

Request for Prior Approval	February 3, 2020 @ 3:00 pm
Submission of Written Questions	February 3, 2020 @ 3:00 pm
Release of Final Addendum	February 7, 2020 @ 5:00 pm
Submission of Price Proposal, Volume I	February 14, 2020 @ 3:00 pm
Submission of Technical Proposal, Volume II	February 15, 2020 @ 3:00 pm

3. APS will accept the electronic copy of Volume I on February 15th if it is identical to the hard copy submitted on February 14th and it is received by APS before 3:00 pm on the 15th. APS noted that proposals are to be submitted to 6400 Uptown Boulevard NE, Suite 500E.

4. APS will evaluate and score proposals on 02/18/2020 and begin contract negotiations with the highest ranked contractor on 02/19/2020. The notice to proceed with construction is scheduled for 03/18/2020.

5. Sheet G-003, Project Phasing, illustrates how the project can be done in three phases. The phasing plan does not include the Bid Lot 1 Concessions and Parking work. The construction documents allow for a construction period of 850 days, but APS and the design team are open to ideas from the general contractor on ways to adjust the phasing and shorten the construction time.

6. Commissioning and Test & Balance are done by APS. The mechanical contractor is responsible for full maintenance (filter changes, etc.), as well as service and repair of all mechanical equipment during the warranty period. This includes purchase of any required filters, belts, etc.

7. The general contractor is to coordinate with APS on the PNM rebates for gas, water and electric. PNM will issue the rebates to the general contractor who will credit them to the project via change order.

8. APS tracks all dedicated data drops through a spreadsheet on Google docs and the general contractor is to work with APS to update tracking.

9. Electric, gas and water are sub-metered to an E-Mon unit.

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NAME	COMPANY	PHONE	EMAIL
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Tom Euley	High Desert Realty	505-342-1092	tom@desertrealty.com
Michael Ramirez	B&P	883-4111	mtramirez@lpce.com
Julia Ellis	HB Construction	856-0404	bids@hbconstruction.com Julia
Tony Otero	APS IT	273-1537	tony.otero@aps.edu

Rio Grande High School Gym Questions/Reponses

1. A-101 Spec. Key Note 11-6623.04 call for new wall pad. The plan says re-use existing. Which is correct?
RESPONSE: A: Specification Keynote 11 66 23.04 is correct. Remove 'RE-USE EXISTING PER OWNER/ARCHITECT' reference on sheet A-101.
Additionally, change the following:
 - Remove following note on A1/A-301 'RE-USE EXISTING PADDING; ADD AS APPROPRIATE (BOTH SIDES) PER APS INSTRUCTION' and replace with Specification Keynote 11 66 23.04 NEW WALL PAD. Wall pads to be provided on both sides.
 - Revise Sheet Keynote 42 on sheet AD-101 to read as follows: SALVAGE EXISTING WALL PAD AND PROTECT DURING CONSTRUCTION; TO BE RE-INSTALLED AT EXISTING AUXILARY GYMNASIUM 186 IN PHASE III PER OWNER/ARCHITECT.
2. A-101 Spec. Key Note 11-6623.12 – Project per APS. Who furnishes and installs? What are the support requirements?
RESPONSE: General Contractor to furnish and install projector and screen. See addendum notes Sheet A101 for basis of design and cage/support requirements.
3. A-104 General Note C says to view D4/A104. There is no D4/A104.
RESPONSE: Delete General Note C.
4. What is the Building Permit status?
RESPONSE: Documents have been submitted to PSFA for review and submittal to CID.
5. Who will be the APS Construction Manager?
RESPONSE: APS will Determine.
6. Spec. 03-3543 Polished Concrete calls for 4000 PSI. S-002 calls for 3000 PSI at interior slabs. Which is correct?
RESPONSE: 4000 PSF
7. There is a Spec. Section 04-0110 Masonry Cleaning. Where does this apply?
RESPONSE: Delete Section 04 01 10 in its entirety.
8. A-101, 11-6623.02, Portable backstops. Is this correct?
RESPONSE: Remove following note on A-101 11-6623.02 'PORTABLE BACKSTOPS' and replace with Specification Keynote 11 66 23.03 FORWARD FOLDING BACKSTOP.
9. Spec. 10-4400 calls out fire extinguishers. APS normally furnishes these. Are we to furnish the fire extinguishers?
RESPONSE: APS is furnishing fire extinguishers.
10. A3/A-402: who furnishes ice maker, refrigerator, and microwave?
RESPONSE: General Contractor to furnish ice maker, refrigerator and microwave.
11. A1/A-402: Who furnishes the chemical storage cabinet?
RESPONSE: General contractor to furnish chemical storage cabinet. Cabinet to be steel, five shelf locking cabinet.
12. A-611: Doors 111, 122, 134, 167 are missing information. Please provide.
RESPONSE: See Addendum for response.
13. A112: Please provide a specification for the Ballet Bar.
RESPONSE: Ballet Barre System, basis of design Vita Vibe or equal.

14. Spec. 10191: Cubicle Curtain. Are there any of these in this project? If so, please provide location(s).
RESPONSE: Door 167 to be a Cubicle Curtain.
15. A-111, Room 170: What type of lockers are these?
RESPONSE: See: LOCKER SCHEDULE -FIRST FLOOR PHASE 2 ON A-11
TYPE 5: WRESTLING LOCKER 2-TIER 18"x18" QTY: 37
16. Spec. 10-5613 – Metal Storage Shelving. Are there any of these on this project? If so, please provide location(s).
RESPONSE: Yes, metal storage shelving is provided in Rm:139 TRAINING STORAGE.
17. B5/A-411: What is OFCI?
RESPONSE: Refrigerator. Owner Furnished Contractor Installed.
18. AD-101, KN30 does not match A-601 for floor finish. Please clarify.
RESPONSE: See: A-601 ROOM FINISH SCHEDULE – SECOND FLOOR PHASE 1
Rm: 205 WALL NORTH
Rm: 211 WALL SOUTH
ROOM FINISH LEGEND: W6 – RE-PURPOSED GYM FLOORING FROM EXISTING (TO 10')
19. Will APS allow for the ELECTRONIC copy of Volume I: Price Proposal to be submitted by the deadline for Volume II: Technical Proposal on February 14, 2020, so long as the content is identical to the hard copy Volume I: Price Proposal submitted on February 13, 2020? While this question was asked and answered at the pre-bid meeting, it is submitted here for project record.
RESPONSE: Yes
20. The augercast pile specifications require compression load test on 2 sacrificial piles to 200% of the design load, but the design load is not shown on the augercast pile schedule. Can you please provide the design loads for each pile type?
RESPONSE: These tests were completed for the RGHS 9th grade Academy and they were successful. Based on this, these tests will be removed from this project in the addendum.
21. The load test are very expensive and time consuming. Would the design team consider high strain dynamic load testing on production piles instead (ASTM D4945)?
RESPONSE: See response to 20.
22. There appear to be a few augercast piles without pile types as shown on the attached sketch. Can you please provide these?
RESPONSE: We will identify these in the addendum.
23. Can you provide the required loads for the helical anchors referenced (Key Notes 6 and 7) on the attached?
RESPONSE: We will identify these in the addendum.

GENERAL SHEET NOTES

- A. FIRE ALARM SYSTEM SHALL BE ENTIRELY IN 3/4" (MIN.) UNLESS NOTED OTHERWISE.
- B. DO NOT MOUNT SMOKE DETECTORS / HEAT DETECTORS WITHIN 3'-0" OF AN AIR DIFFUSER.
- C. ALL CEILING MOUNT DETECTORS IN EXPOSED STRUCTURE AREAS SHALL BE MOUNTED TO THE DECK.
- D. ALL ROUGH-IN AND RACEWAY WITH PULL STRING BY ELECTRICAL CONTRACTOR.

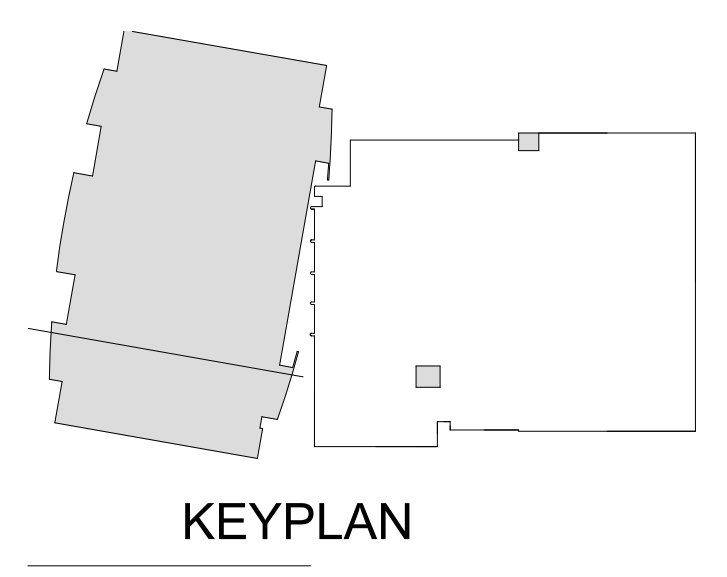
KEYNOTES

- 1. FIRE ALARM POWER SUPPLY AND DIGITAL AUDIO AMPLIFIER REQUIRES SPECIAL BACK BOX SUPPLIED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT AT 66" AFF TO TOP OF CABINETS. ELECTRICAL CONTRACTOR TO PROVIDE FIRE ALARM TERMINAL CAN. REFER TO DETAIL 1 SHEET FA-300.
- 2. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR FIRE ALARM CABLING FROM FIRE ALARM TERMINAL CAN IN IT 103A TO FIRE ALARM TERMINAL CAN IN 1ST FLOOR IT 155 PHASE II.
- 4. ELECTRICAL CONTRACTOR TO CAP OFF CONDUIT TO PREVENT MOISTURE AND CONTINUE TO EXTEND CONDUIT DURING PHASE II.
- 5. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. TO IN GROUND 36"x36"x18" HANDHOLES FOR FIRE ALARM NETWORK CONNECTIONS FROM MAIN FIRE ALARM CONTROL PANEL IN ADMIN BUILDING.
- 6. TYPICAL JBOX WITH COVER PLATE BY ELECTRICAL CONTRACTOR.
- 7. TYPICAL 3/4" RACEWAY BY ELECTRICAL CONTRACTOR.
- 8. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY UP TO 2ND FLOOR NORTH MEZZANINE BLEACHERS 204.
- 9. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY UP TO 2ND FLOOR SOUTH MEZZANINE BLEACHERS 208.
- 10. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY UP TO FIRE ALARM BEAM SMOKE DETECTOR BOYE. REFER TO SHEET FA-103.
- 11. REMOTE TEST SWITCH PROVIDED AND CONNECTED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4SQ DEEP WITH SINGLE GANG RING MOUNTED AT 60" TO AVAILABLE WALL SPACE.
- 12. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. TO FIRE ALARM TERMINAL CAN IN IT 103A.

DEVICE LEGEND

SYMBOL	DESCRIPTION
[FATC]	FIRE ALARM TERMINAL CAN 18" x 18" x 6" PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
[FAEQ]	FIRE ALARM EQUIPMENT CAN - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE. MOUNT AT 66" A.F.F. TO TOP OF BOX. NO CONDUIT SHALL ENTER BOTTOM OF BOX.
[FCPS]	FIRE ALARM REMOTE POWER SUPPLY - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE. MOUNT AT 66" A.F.F. TO TOP OF BOX. NO CONDUIT SHALL ENTER BOTTOM OF BOX.
[ANN]	FIRE ALARM ANNUNCIATOR - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR MOUNT AT 60" TO TOP OF BOX AFF.
[J]	JBOX - COORDINATE WITH APS VENDOR FOREMAN ON ROUGH-IN TYPE AND HEIGHTS INSTALLED AND PROVIDED BY ELECTRICAL CONTRACTOR.
[F]	PULL STATION PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP W/ SINGLE GANG RING. MOUNT AT 48" TO TOP OF BOX BY ELECTRICAL CONTRACTOR.
[R]	RELAY MODULE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4-11/16" DEEP BOX WITH DOUBLE GANG RING BY ELECTRICAL CONTRACTOR.
[M]	MONITOR MODULE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4-11/16" DEEP BOX WITH DOUBLE GANG RING BY ELECTRICAL CONTRACTOR.
[MR]	MECHANICAL RELAY PROVIDED BY APS VENDOR INSTALLED AND CABLED BY ELECTRICAL CONTRACTOR.
[RM]	REMOTE MICROPHONE PROVIDED BY APS VENDOR - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR INSTALLED BY ELECTRICAL CONTRACTOR MOUNT AT 60" TO TOP OF BOX.
[S]	WALL MOUNT FIRE ALARM SPEAKER / STROBE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP W/ 4SQ EXTENSION RING MOUNT AT 80" TO BOTTOM OF BOX BY ELECTRICAL CONTRACTOR.
[S]	WALL MOUNT FIRE ALARM STROBE ONLY PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP W/ 4SQ EXTENSION RING MOUNT AT 80" TO BOTTOM OF BOX BY ELECTRICAL CONTRACTOR.
[S]	CEILING MOUNT SPEAKER / STROBE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP W/ 4SQ EXTENSION RING BY ELECTRICAL CONTRACTOR.
[S]	CEILING MOUNT STROBE ONLY PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP W/ 4SQ EXTENSION RING BY ELECTRICAL CONTRACTOR.
[WP]	WEATHER PROOF WALL MOUNT SPEAKER / STROBE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX BY APS VENDOR INSTALLED BY ELECTRICAL CONTRACTOR.
[WP]	WEATHER PROOF WALL MOUNT STROBE ONLY PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX BY APS VENDOR INSTALLED BY ELECTRICAL CONTRACTOR.
[P]	SMOKE DETECTOR PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP WITH 3-0 RING BY ELECTRICAL CONTRACTOR. P = PHOTOELECTRIC, Q = INTELLOQUAD.
[P/RR/HH]	HEAT DETECTORS PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP WITH 3-0 RING BY ELECTRICAL CONTRACTOR. FIR = FIXED RATE, RR = RATE OF RISE, HH = HIGH HEAT.
[R/S]	DUCT SMOKE DETECTOR WITH RELAY MODULE MOUNTED IN DETECTOR HOUSING. FURNISHED & CONNECTED BY APS VENDOR, INSTALLED BY MECHANICAL CONTRACTOR IN DUCT WORK. INSTALLED PER INSTALL MANUAL PROVIDED WITH DUCT SMOKE DETECTOR.
[RTS]	REMOTE TEST STATION PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP BOX WITH SINGLE GANG RING MOUNTED IN CEILING OR AVAILABLE WALL SPACE BY ELECTRICAL CONTRACTOR.
[TX]	BEAM SMOKE DETECTOR PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE LOCATION WITH ALL TRADES, ARCHITECT & OWNER.
[HB]	HOTBOX PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[FS]	FLOW SWITCH PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[TS]	TAMPER SWITCH PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[PIV]	POST INDICATOR VALVE PROVIDED & INSTALLED BY OTHERS. MONITORED BY FIRE ALARM SYSTEM.

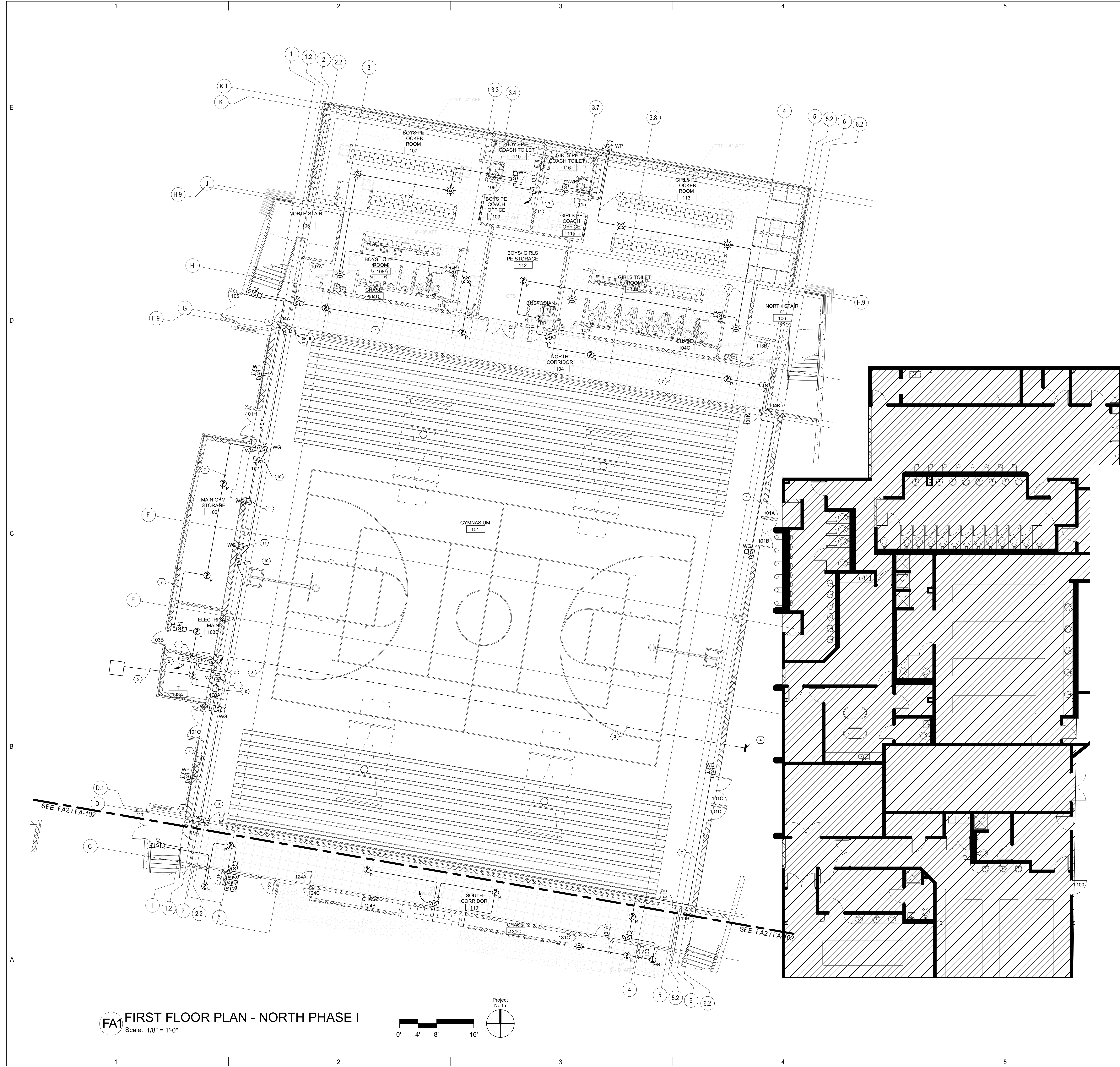
PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



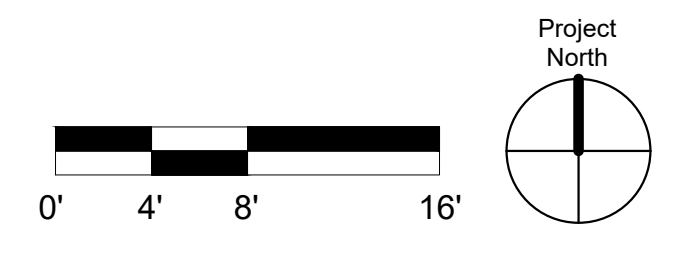
Mark	Date	Description
	JANUARY 13, 2020	Date
		Project Number
		Drawn By S&S
		Checked By S&S

SHEET TITLE
FIRST FLOOR PLAN - NORTH PHASE I

FA-101
 SHEET OF



FA1 FIRST FLOOR PLAN - NORTH PHASE I
 Scale: 1/8" = 1'-0"



GENERAL SHEET NOTES

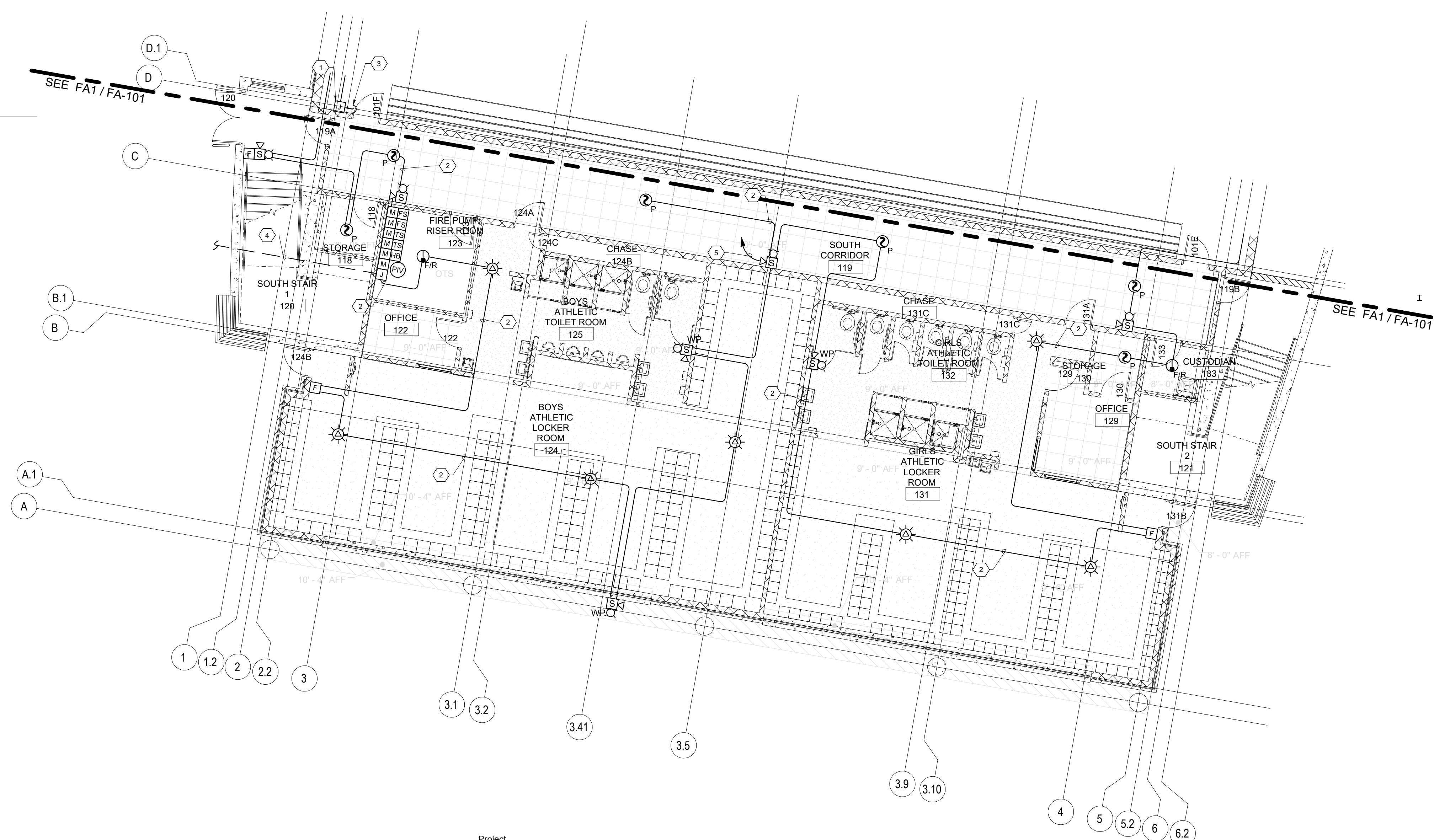
- A. FIRE ALARM SYSTEM SHALL BE ENTIRELY IN 3/4" (MIN.) UNLESS NOTED OTHERWISE.
- B. DO NOT MOUNT SMOKE DETECTORS / HEAT DETECTORS WITHIN 3'-0" OF AN AIR DIFFUSER.
- C. ALL CEILING MOUNT DETECTORS IN EXPOSED STRUCTURE AREAS SHALL BE MOUNTED TO THE DECK.
- D. ALL ROUGH-IN AND RACEWAY WITH PULL STRING BY ELECTRICAL CONTRACTOR.

KEYNOTES

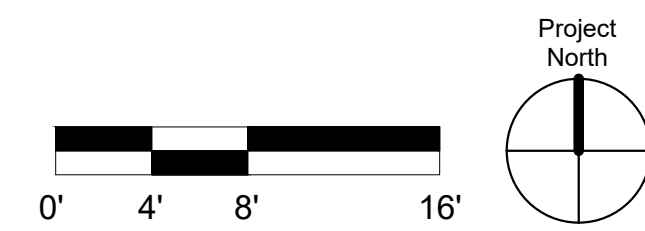
- 1. TYPICAL J-BOX WITH COVER PLATE BY ELECTRICAL CONTRACTOR.
- 2. TYPICAL 3/4" RACEWAY BY ELECTRICAL CONTRACTOR.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY UP TO 2ND FLOOR SOUTH MEZZANINE BLEACHERS 208.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY TO PIV / HOT BOX. REFER TO UTILITY PLANS.
- 5. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. TO FIRE ALARM TERMINAL CAN IN IT 103A.

DEVICE LEGEND

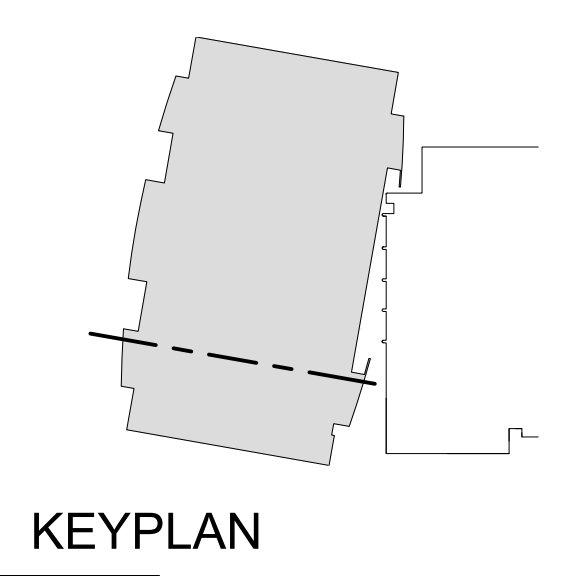
SYMBOL	DESCRIPTION
[FATC]	FIRE ALARM TERMINAL CAN 18" x 18" x 6" PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
[FAEQ]	FIRE ALARM EQUIPMENT CAN - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE. MOUNT AT 66" A.F.F. TO TOP OF BOX. NO CONDUIT SHALL ENTER BOTTOM OF BOX.
[FCPS]	FIRE ALARM REMOTE POWER SUPPLY - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE. MOUNT AT 66" A.F.F. TO TOP OF BOX. NO CONDUIT SHALL ENTER BOTTOM OF BOX.
[ANN]	FIRE ALARM ANNUNCIATOR - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR MOUNT AT 66" TO TOP OF BOX AFF.
[J]	J-BOX - COORDINATE WITH APS VENDOR FOREMAN ON ROUGH-IN TYPE AND HEIGHTS INSTALLED AND PROVIDED BY ELECTRICAL CONTRACTOR
[F]	PULL STATION PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP W/ SINGLE GANG RING. MOUNT AT 48" TO TOP OF BOX BY ELECTRICAL CONTRACTOR.
[R]	RELAY MODULE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4-11/16" DEEP BOX WITH DOUBLE GANG RING BY ELECTRICAL CONTRACTOR.
[M]	MONITOR MODULE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4-11/16" DEEP BOX WITH DOUBLE GANG RING BY ELECTRICAL CONTRACTOR.
[MR]	MECHANICAL RELAY PROVIDED BY APS VENDOR INSTALLED AND CABLED BY ELECTRICAL CONTRACTOR.
[RM]	REMOTE MICROPHONE PROVIDED BY APS VENDOR - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR INSTALLED BY ELECTRICAL CONTRACTOR MOUNT AT 66" TO TOP OF BOX.
[S]	WALL MOUNT FIRE ALARM SPEAKER / STROBE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP W/ 4SQ. EXTENSION RING MOUNT AT 80" TO BOTTOM OF BOX BY ELECTRICAL CONTRACTOR.
[S]	WALL MOUNT FIRE ALARM STROBE ONLY PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP W/ 4SQ. EXTENSION RING MOUNT AT 80" TO BOTTOM OF BOX BY ELECTRICAL CONTRACTOR.
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[S]	CEILING MOUNT STROBE ONLY PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP W/ 4SQ. EXTENSION RING BY ELECTRICAL CONTRACTOR.
[WP]	WEATHER PROOF WALL MOUNT SPEAKER /STROBE PROVIDED AND INSTALLED BY APS VENDOR. REQ'S SPECIAL BACK BOX BY APS VENDOR INSTALLED BY ELECTRICAL CONTRACTOR.
[WP]	WEATHER PROOF WALL MOUNT STROBE ONLY PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX BY APS VENDOR INSTALLED BY ELECTRICAL CONTRACTOR.
[P]	SMOKE DETECTOR PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP WITH 3-0 RING BY ELECTRICAL CONTRACTOR. P = PHOTOELECTRIC, Q = INTELLIQUAD.
[F/R RR HH]	HEAT DETECTORS PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP WITH 3-0 RING BY ELECTRICAL CONTRACTOR. FIR = FIXED RATE, RR = RATE OF RISE, HH = HIGH HEAT.
[R]	DUCT SMOKE DETECTOR WITH RELAY MODULE MOUNTED IN DETECTOR HOUSING. FURNISHED & CONNECTED BY APS VENDOR. INSTALLED BY MECHANICAL CONTRACTOR IN DUCT WORK. INSTALLED PER INSTALL MANUAL PROVIDED WITH DUCT SMOKE DETECTOR.
[RTS]	REMOTE TEST STATION PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP BOX WITH SINGLE GANG RING MOUNTED IN CEILING OR AVAILABLE WALL SPACE BY ELECTRICAL CONTRACTOR.
[B]	BEAM SMOKE DETECTOR PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE LOCATION WITH ALL TRADES, ARCHITECT & OWNER.
[HB]	HOTBOX PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[FS]	FLOW SWITCH PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[TS]	TAMPER SWITCH PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[PIV]	POST INDICATOR VALVE PROVIDED & INSTALLED BY OTHERS. MONITORED BY FIRE ALARM SYSTEM.



FA1 FIRST FLOOR PLAN - SOUTH PHASE I
Scale: 1/8" = 1'-0"



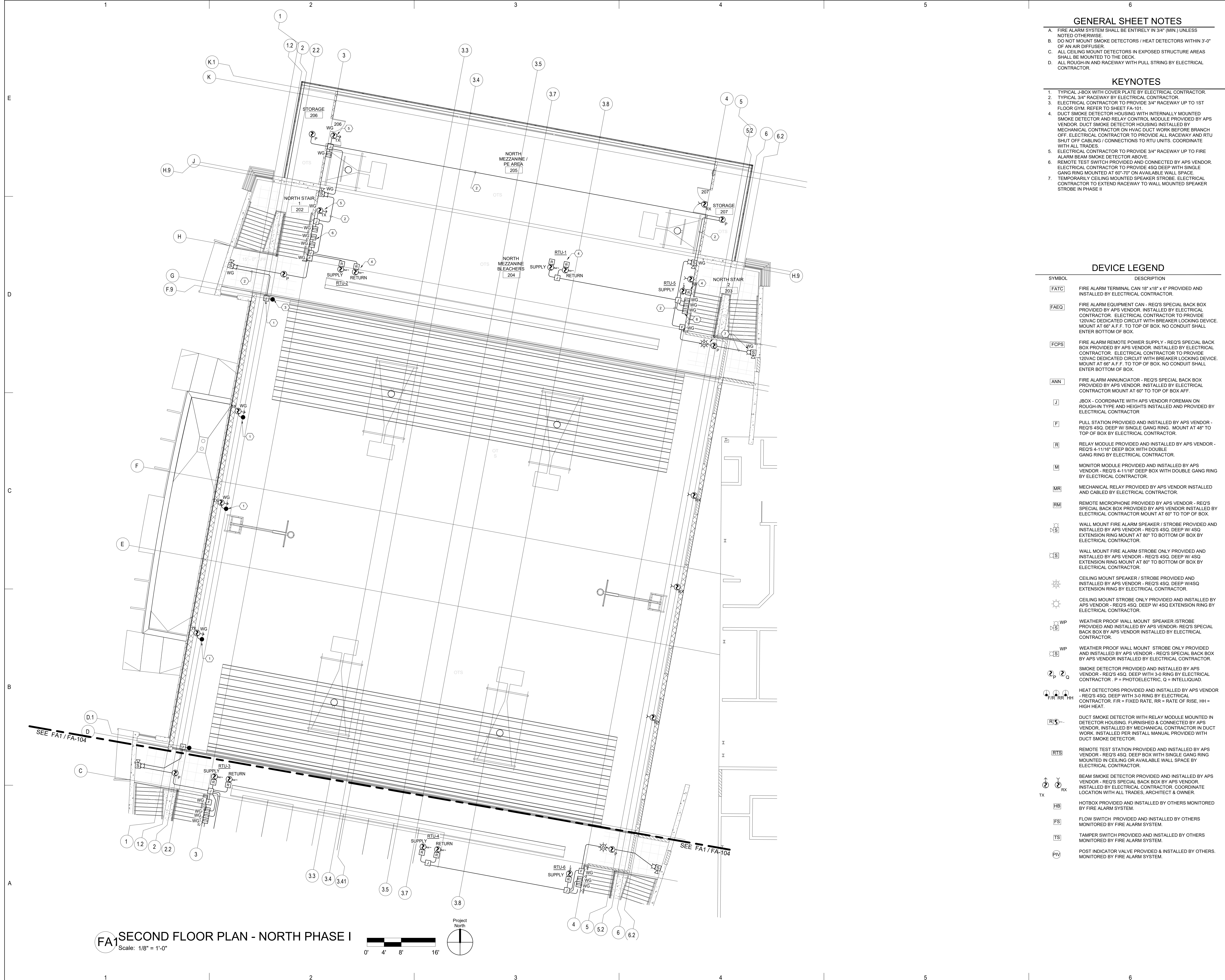
PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



Mark	Date	Description
	January 13, 2020	

SHEET TITLE
FIRST FLOOR PLAN - SOUTH PHASE I

SHEET **FA-102** OF



FA1 SECOND FLOOR PLAN - NORTH PHASE I
 Scale: 1/8" = 1'-0"
 Project North

GENERAL SHEET NOTES

- A. FIRE ALARM SYSTEM SHALL BE ENTIRELY IN 3/4" (MIN.) UNLESS NOTED OTHERWISE.
- B. DO NOT MOUNT SMOKE DETECTORS / HEAT DETECTORS WITHIN 3'-0" OF AN AIR DIFFUSER.
- C. ALL CEILING MOUNT DETECTORS IN EXPOSED STRUCTURE AREAS SHALL BE MOUNTED TO THE DECK.
- D. ALL ROUGH-IN AND RACEWAY WITH PULL STRING BY ELECTRICAL CONTRACTOR.

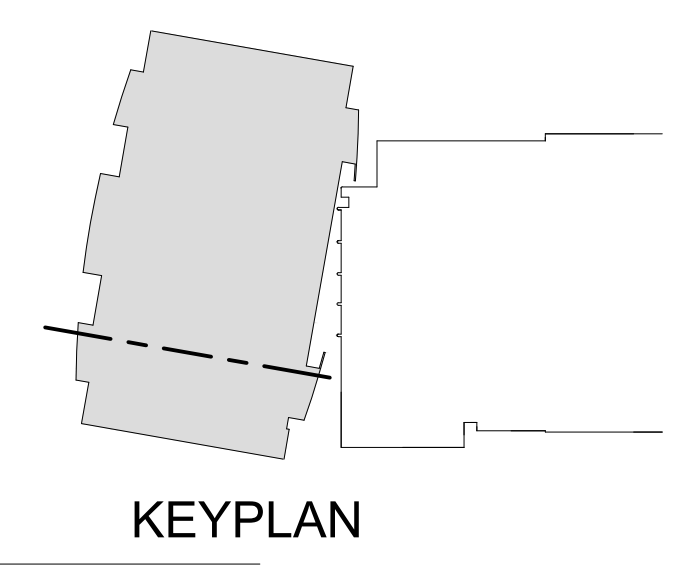
KEYNOTES

- 1. TYPICAL J-BOX WITH COVER PLATE BY ELECTRICAL CONTRACTOR.
- 2. TYPICAL 3/4" RACEWAY BY ELECTRICAL CONTRACTOR.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY UP TO 1ST FLOOR GYM. REFER TO SHEET FA-101.
- 4. DUCT SMOKE DETECTOR HOUSING WITH INTERNALLY MOUNTED SMOKE DETECTOR AND RELAY CONTROL MODULE PROVIDED BY APS VENDOR. DUCT SMOKE DETECTOR HOUSING INSTALLED BY MECHANICAL CONTRACTOR ON HVAC DUCT WORK BEFORE BRANCH OFF. ELECTRICAL CONTRACTOR TO PROVIDE ALL RACEWAY AND RTU SHUT OFF CABLING / CONNECTIONS TO RTU UNITS. COORDINATE WITH ALL TRADES.
- 5. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY UP TO FIRE ALARM BEAM SMOKE DETECTOR ABOVE.
- 6. REMOTE TEST SWITCH PROVIDED AND CONNECTED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4SQ DEEP WITH SINGLE GANG RING MOUNTED AT 60" ON AVAILABLE WALL SPACE.
- 7. TEMPORARILY CEILING MOUNTED SPEAKER STROBE. ELECTRICAL CONTRACTOR TO EXTEND RACEWAY TO WALL MOUNTED SPEAKER STROBE IN PHASE II

DEVICE LEGEND

SYMBOL	DESCRIPTION
[FATC]	FIRE ALARM TERMINAL CAN 18" x 18" x 6" PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
[FAEQ]	FIRE ALARM EQUIPMENT CAN - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE. MOUNT AT 60" A.F.F. TO TOP OF BOX. NO CONDUIT SHALL ENTER BOTTOM OF BOX.
[FCPS]	FIRE ALARM REMOTE POWER SUPPLY - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE. MOUNT AT 60" A.F.F. TO TOP OF BOX. NO CONDUIT SHALL ENTER BOTTOM OF BOX.
[ANN]	FIRE ALARM ANNUNCIATOR - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR MOUNT AT 60" TO TOP OF BOX AFF.
[J]	J-BOX - COORDINATE WITH APS VENDOR FOREMAN ON ROUGH-IN TYPE AND HEIGHTS INSTALLED AND PROVIDED BY ELECTRICAL CONTRACTOR.
[P]	PULL STATION PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP W/ SINGLE GANG RING MOUNT AT 48" TO TOP OF BOX BY ELECTRICAL CONTRACTOR.
[R]	RELAY MODULE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4-11/16" DEEP BOX WITH DOUBLE GANG RING BY ELECTRICAL CONTRACTOR.
[M]	MONITOR MODULE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4-11/16" DEEP BOX WITH DOUBLE GANG RING BY ELECTRICAL CONTRACTOR.
[MR]	MECHANICAL RELAY PROVIDED BY APS VENDOR INSTALLED AND CABLED BY ELECTRICAL CONTRACTOR.
[RM]	REMOTE MICROPHONE PROVIDED BY APS VENDOR - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR INSTALLED BY ELECTRICAL CONTRACTOR MOUNT AT 60" TO TOP OF BOX.
[S]	WALL MOUNT FIRE ALARM SPEAKER / STROBE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP W/ 4SQ EXTENSION RING MOUNT AT 80" TO BOTTOM OF BOX BY ELECTRICAL CONTRACTOR.
[S]	WALL MOUNT FIRE ALARM STROBE ONLY PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP W/ 4SQ EXTENSION RING MOUNT AT 80" TO BOTTOM OF BOX BY ELECTRICAL CONTRACTOR.
[S]	CEILING MOUNT SPEAKER / STROBE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP W/ 4SQ EXTENSION RING BY ELECTRICAL CONTRACTOR.
[S]	CEILING MOUNT STROBE ONLY PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP W/ 4SQ EXTENSION RING BY ELECTRICAL CONTRACTOR.
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[S]	SMOKE DETECTOR PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP WITH 3-0 RING BY ELECTRICAL CONTRACTOR. P = PHOTOELECTRIC, Q = INTELLEQUAD.
[F/R/RR/HH]	HEAT DETECTORS PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP WITH 3-0 RING BY ELECTRICAL CONTRACTOR. FIR = FIXED RATE, RR = RATE OF RISE, HH = HIGH HEAT.
[R/S]	DUCT SMOKE DETECTOR WITH RELAY MODULE MOUNTED IN DETECTOR HOUSING. FURNISHED & CONNECTED BY APS VENDOR, INSTALLED BY MECHANICAL CONTRACTOR IN DUCT WORK. INSTALLED PER INSTALL MANUAL PROVIDED WITH DUCT SMOKE DETECTOR.
[RTS]	REMOTE TEST STATION PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ DEEP BOX WITH SINGLE GANG RING MOUNTED IN CEILING OR AVAILABLE WALL SPACE BY ELECTRICAL CONTRACTOR.
[TX]	BEAM SMOKE DETECTOR PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE LOCATION WITH ALL TRADES, ARCHITECT & OWNER.
[HB]	HOTBOX PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[FS]	FLOW SWITCH PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[TS]	TAMPER SWITCH PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[PIV]	POST INDICATOR VALVE PROVIDED & INSTALLED BY OTHERS. MONITORED BY FIRE ALARM SYSTEM.

PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



Mark	Date	Description
	JANUARY 13, 2020	
		Project Number
		Drawn By S&S
		Checked By S&S

SHEET TITLE
SECOND FLOOR PLAN - NORTH PHASE I

GENERAL SHEET NOTES

- A. FIRE ALARM SYSTEM SHALL BE ENTIRELY IN 3/4" (MIN.) UNLESS NOTED OTHERWISE.
- B. DO NOT MOUNT SMOKE DETECTORS / HEAT DETECTORS WITHIN 3'-0" OF AN AIR DIFFUSER.
- C. ALL CEILING MOUNT DETECTORS IN EXPOSED STRUCTURE AREAS SHALL BE MOUNTED TO THE DECK.
- D. ALL ROUGH-IN AND RACEWAY WITH PULL STRING BY ELECTRICAL CONTRACTOR.

KEYNOTES

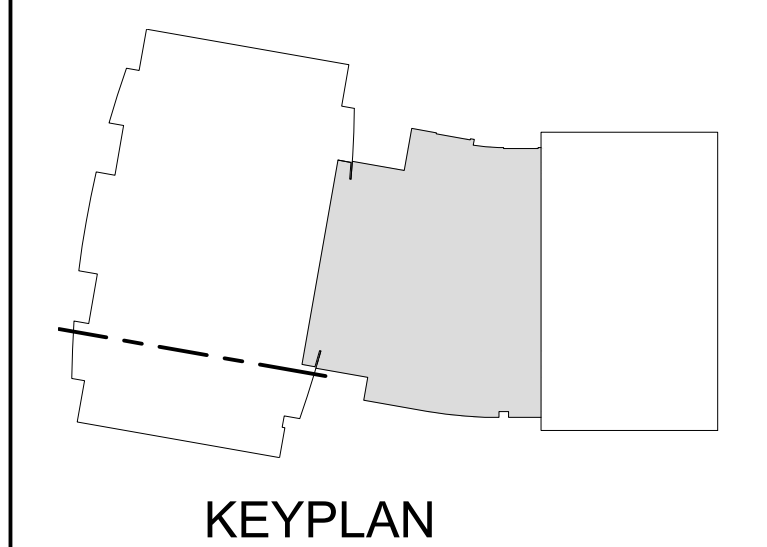
- 1. FIRE ALARM POWER SUPPLY AND DIGITAL AUDIO AMPLIFIER REQUIRES SPECIAL BACK BOX SUPPLIED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT AT 60" AFF TO TOP OF CABINETS. ELECTRICAL CONTRACTOR TO PROVIDE FIRE ALARM TERMINAL CAN. REFER TO DETAIL 2 SHEET FA-300.
- 2. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR FIRE ALARM CABLING FROM IT 103A TO 1ST FLOOR IT 155 PHASE II.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR FIRE ALARM CABLING FROM FIRE ALARM TERMINAL CAN IN IT 155 TO 2ND FLOOR FIRE ALARM TERMINAL CAN IN IT 233C. REFER TO SHEET FA-112.
- 5. TYPICAL J-BOX WITH COVER PLATE BY ELECTRICAL CONTRACTOR. REFER TO DETAIL 3 ON SHEET FA-300.
- 6. TYPICAL 3/4" RACEWAY BY ELECTRICAL CONTRACTOR.
- 7. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY TO FIRE ALARM DEVICES IN ELEVATOR PIT. COORDINATE WITH APS VENDOR.
- 8. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN FOR HEAT DETECTOR. HEAT DETECTOR TO BE ROUGH-IN WITHIN 18" OF EACH SPRINKLER HEAD. COORDINATE WITH APS VENDOR.
- 9. FIRE ALARM DEVICE TO BE ACCESSIBLE FOR MAINTENANCE. GENERAL CONTRACTOR TO PROVIDE ACCESSIBLE DOOR.
- 10. REMOTE TEST SWITCH PROVIDED AND CONNECTED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4SQ DEEP WITH SINGLE GANG RING MOUNTED AT 60"-70" ON AVAILABLE WALL SPACE OR CEILING MOUNT TO LAY-IN CEILING TILE.
- 11. ELECTRICAL CONTRACTOR TO PROVIDE 1-1" C. TO FIRE ALARM TERMINAL CAN IN IT 155.
- 12. ELECTRICAL CONTRACTOR TO PROVIDE 1- 1 1/4" C. & J-BOX FOR PHASE II FIRE ALARM DEVICE CABLING.
- 13. FIRE ALARM ANNUNCIATOR AND REMOTE MICROPHONE REQUIRES SPECIAL BACK BOX SUPPLIED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT AT 60" TO TOP OF BOX. REFER TO DETAIL 3 ON SHEET FA-300.

DEVICE LEGEND

SYMBOL	DESCRIPTION
[FATC]	FIRE ALARM TERMINAL CAN 18" x 18" x 6" PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
[FAEQ]	FIRE ALARM EQUIPMENT CAN - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE. MOUNT AT 60" A.F.F. TO TOP OF BOX. NO CONDUIT SHALL ENTER BOTTOM OF BOX.
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[ANN]	FIRE ALARM ANNUNCIATOR - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR MOUNT AT 60" TO TOP OF BOX AFF.
[J]	J-BOX - COORDINATE WITH APS VENDOR FOREMAN ON ROUGH-IN TYPE AND HEIGHTS INSTALLED AND PROVIDED BY ELECTRICAL CONTRACTOR
[F]	PULL STATION PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP W/ SINGLE GANG RING. MOUNT AT 48" TO TOP OF BOX BY ELECTRICAL CONTRACTOR.
[R]	RELAY MODULE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4-11/16" DEEP BOX WITH DOUBLE GANG RING BY ELECTRICAL CONTRACTOR.
[M]	MONITOR MODULE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4-11/16" DEEP BOX WITH DOUBLE GANG RING BY ELECTRICAL CONTRACTOR.
[MR]	MECHANICAL RELAY PROVIDED BY APS VENDOR INSTALLED AND CABLED BY ELECTRICAL CONTRACTOR.
[RM]	REMOTE MICROPHONE PROVIDED BY APS VENDOR - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR INSTALLED BY ELECTRICAL CONTRACTOR MOUNT AT 60" TO TOP OF BOX.
[S]	WALL MOUNT FIRE ALARM SPEAKER / STROBE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP W/ 4SQ EXTENSION RING MOUNT AT 80" TO BOTTOM OF BOX BY ELECTRICAL CONTRACTOR.
[S]	WALL MOUNT FIRE ALARM STROBE ONLY PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP W/ 4SQ EXTENSION RING MOUNT AT 80" TO BOTTOM OF BOX BY ELECTRICAL CONTRACTOR.
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[S]	SMOKE DETECTOR PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP WITH 3-0 RING BY ELECTRICAL CONTRACTOR. P = PHOTOELECTRIC, Q = INTELLEQUAD.
[F/R/RR/HH]	HEAT DETECTORS PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP WITH 3-0 RING BY ELECTRICAL CONTRACTOR. F/R = FIXED RATE, RR = RATE OF RISE, HH = HIGH HEAT.
[R/S]	DUCT SMOKE DETECTOR WITH RELAY MODULE MOUNTED IN DETECTOR HOUSING. FURNISHED & CONNECTED BY APS VENDOR. INSTALLED BY MECHANICAL CONTRACTOR IN DUCT WORK. INSTALLED PER INSTALL MANUAL PROVIDED WITH DUCT SMOKE DETECTOR.
[RTS]	REMOTE TEST STATION PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP BOX WITH SINGLE GANG RING MOUNTED IN CEILING OR AVAILABLE WALL SPACE BY ELECTRICAL CONTRACTOR.
[B]	BEAM SMOKE DETECTOR PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE LOCATION WITH ALL TRADES, ARCHITECT & OWNER.
[TX]	HOTBOX PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[HS]	FLOW SWITCH PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[TS]	TAMPER SWITCH PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
[PIV]	POST INDICATOR VALVE PROVIDED & INSTALLED BY OTHERS. MONITORED BY FIRE ALARM SYSTEM.

PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium

ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105

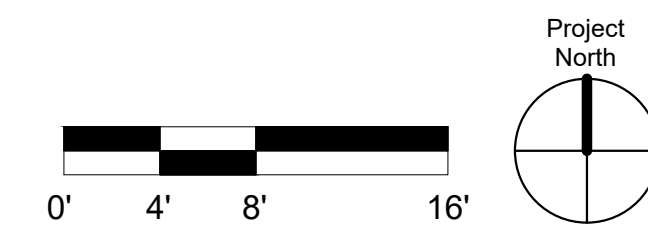


Mark	Date	Description
	JANUARY 13, 2020	Date
		Project Number
		Drawn By S&S
		Checked By S&S

SHEET TITLE
FIRST FLOOR PLAN - PHASE II

SHEET **FA-111** OF

FA2 FIRST FLOOR PLAN - PHASE II
 Scale: 1/8" = 1'-0"





GENERAL SHEET NOTES

- A. FIRE ALARM SYSTEM SHALL BE ENTIRELY IN 3/4" (MIN.) UNLESS NOTED OTHERWISE.
- B. DO NOT MOUNT SMOKE DETECTORS / HEAT DETECTORS WITHIN 3'-0" OF AN AIR DIFFUSER.
- C. ALL CEILING MOUNT DETECTORS IN EXPOSED STRUCTURE AREAS SHALL BE MOUNTED TO THE DECK.
- D. ALL ROUGH-IN AND RACEWAY WITH PULL STRING BY ELECTRICAL CONTRACTOR.

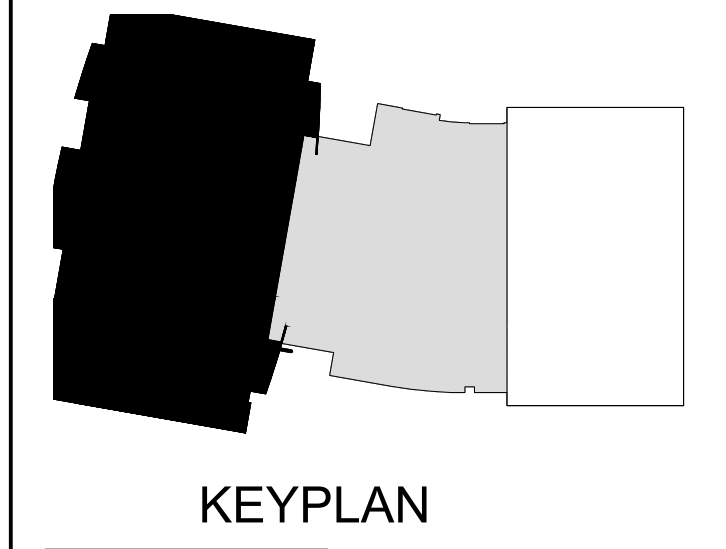
KEYNOTES

- 1. FIRE ALARM POWER SUPPLY REQUIRES SPECIAL BACK BOX SUPPLIED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT AT 6" AFF TO TOP OF CABINET. ELECTRICAL CONTRACTOR TO PROVIDE FIRE ALARM TERMINAL CAN. REFER TO DETAIL 4 SHEET FA-300.
- 2. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR FIRE ALARM CABLE FROM FIRE ALARM TERMINAL CAN IN 1ST FLOOR IT 155 TO 2ND FLOOR FIRE ALARM TERMINAL CAN IN IT 233C. REFER TO SHEET FA-111.
- 4. TYPICAL J-BOX WITH COVER PLATE BY ELECTRICAL CONTRACTOR.
- 5. TYPICAL 3/4" RACEWAY BY ELECTRICAL CONTRACTOR.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY TO FIRE ALARM DEVICES IN ELEVATOR SHAFT. COORDINATE WITH APS VENDOR.
- 7. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN FOR HEAT DETECTOR. HEAT DETECTOR TO BE ROUGH-IN WITHIN 18" OF EACH SPRINKLER HEAD. COORDINATE WITH APS VENDOR.
- 8. FIRE ALARM DEVICE TO BE ACCESSIBLE FOR MAINTENANCE. GENERAL CONTRACTOR TO PROVIDE ACCESSIBLE DOOR.
- 9. REMOTE TEST SWITCH PROVIDED AND CONNECTED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 450 DEEP WITH SINGLE GANG RING MOUNTED AT 60'-70" ON AVAILABLE WALL SPACE OR CEILING MOUNT TO LAY-IN CEILING TILE.
- 10. ELECTRICAL CONTRACTOR TO PROVIDE 1-1 1/4" C. TO J-BOX ABOVE IN ELEVATOR LOBBY ELEV-1.
- 11. ELECTRICAL CONTRACTOR TO PROVIDE 1-1 1/4" C. TO J-BOX BELOW IN ATHLETIC DIRECTOR 223.
- 12. ELECTRICAL CONTRACTOR TO PROVIDE 1-1" C. TO ELEVATOR CONTROLLER FOR FIRE ALARM CABLEING.
- 13. ELECTRICAL CONTRACTOR TO ROUGH-IN FIRE ALARM DEVICE NEAR ELEVATOR CONTROLLER ON AVAILABLE WALL SPACE.

DEVICE LEGEND

SYMBOL	DESCRIPTION
[FATC]	FIRE ALARM TERMINAL CAN 18" x18" x 6" PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
[FAEQ]	FIRE ALARM EQUIPMENT CAN - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE. MOUNT AT 6" AFF. TO TOP OF BOX. NO CONDUIT SHALL ENTER BOTTOM OF BOX.
[FCPS]	FIRE ALARM REMOTE POWER SUPPLY - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE. MOUNT AT 6" AFF. TO TOP OF BOX. NO CONDUIT SHALL ENTER BOTTOM OF BOX.
[ANN]	FIRE ALARM ANNUNCIATOR - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR MOUNT AT 60" TO TOP OF BOX AFF.
[J]	J-BOX - COORDINATE WITH APS VENDOR FOREMAN ON ROUGH-IN TYPE AND HEIGHTS INSTALLED AND PROVIDED BY ELECTRICAL CONTRACTOR
[P]	PULL STATION PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP W/ SINGLE GANG RING. MOUNT AT 48" TO TOP OF BOX BY ELECTRICAL CONTRACTOR.
[R]	RELAY MODULE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4-11/16" DEEP BOX WITH DOUBLE GANG RING BY ELECTRICAL CONTRACTOR.
[M]	MONITOR MODULE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4-11/16" DEEP BOX WITH DOUBLE GANG RING BY ELECTRICAL CONTRACTOR.
[MR]	MECHANICAL RELAY PROVIDED BY APS VENDOR INSTALLED AND CABLED BY ELECTRICAL CONTRACTOR.
[RM]	REMOTE MICROPHONE PROVIDED BY APS VENDOR - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR INSTALLED BY ELECTRICAL CONTRACTOR MOUNT AT 60" TO TOP OF BOX.
[S]	WALL MOUNT FIRE ALARM SPEAKER / STROBE PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP W/ 4SQ EXTENSION RING MOUNT AT 80" TO BOTTOM OF BOX BY ELECTRICAL CONTRACTOR.
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[P]	HEAT DETECTORS PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4SQ. DEEP WITH 3-0 RING BY ELECTRICAL CONTRACTOR. F/R = FIXED RATE, RR = RATE OF RISE, HH = HIGH HEAT.
[RS]	DUCT SMOKE DETECTOR WITH RELAY MODULE MOUNTED IN DETECTOR HOUSING. FURNISHED & CONNECTED BY APS VENDOR. INSTALLED BY MECHANICAL CONTRACTOR IN DUCT WORK. INSTALLED PER INSTALL MANUAL PROVIDED WITH DUCT SMOKE DETECTOR.
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[HB]	HOTBOX PROVIDED AND INSTALLED BY OTHERS MONITORED BY FIRE ALARM SYSTEM.
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PROJECT
 Albuquerque Public Schools
 Rio Grande High School Gymnasium
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 2330 Arenal Road SW
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 87105



FA1 CLERESTORY PLAN - PHASE II
 Scale: 1/8" = 1'-0"

FA2 SECOND FLOOR PLAN - PHASE II
 Scale: 1/8" = 1'-0"



Mark	Date	Description
	JANUARY 13, 2020	Date
		Project Number
		Drawn By S&S
		Checked By S&S

SHEET TITLE
SECOND FLOOR & CLERESTORY PLANS - PHASE II
 FA-112
 SHEET OF

GENERAL SHEET NOTES

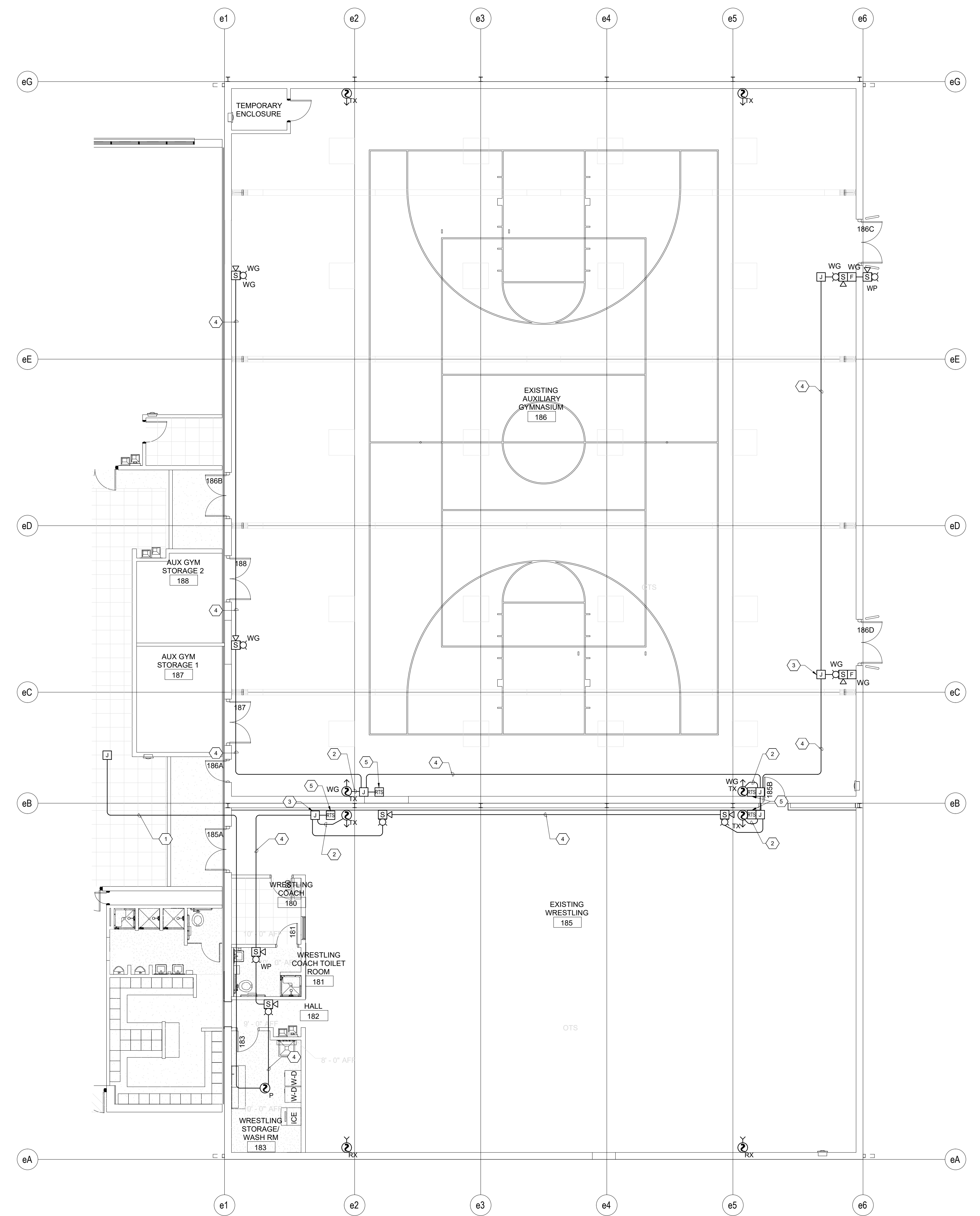
- A. FIRE ALARM SYSTEM SHALL BE ENTIRELY IN 3/4" (MIN.) UNLESS NOTED OTHERWISE.
- B. DO NOT MOUNT SMOKE DETECTORS / HEAT DETECTORS WITHIN 3'-0" OF AN AIR DIFFUSER.
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- D. ALL ROUGH-IN AND RACEWAY WITH PULL STRING BY ELECTRICAL CONTRACTOR.

KEYNOTES

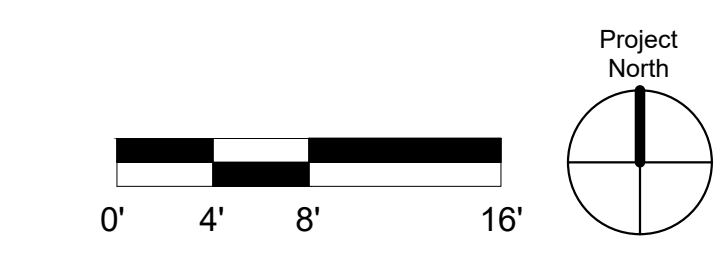
- 1. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. TO J-BOX FROM PHASE II. FOR FIRE ALARM CABLING.
- 2. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. UP TO BEAM SMOKE DETECTOR. COORDINATE WITH FIRE ALARM CONTRACTOR.
- 3. TYPICAL J-BOX WITH COVER PLATE BY ELECTRICAL CONTRACTOR.
- 4. TYPICAL 3/4" RACEWAY BY ELECTRICAL CONTRACTOR.
- 5. ELECTRICAL CONTRACTOR TO PROVIDE 450 DEEP BOX WITH SINGLE GANG RING MOUNTED AT 60" - 70" AFF ON AVAILABLE WALL SPACE FOR REMOTE TEST SWITCH. COORDINATE WITH FIRE ALARM CONTRACTOR FOR EXACT LOCATIONS.

DEVICE LEGEND

SYMBOL	DESCRIPTION
[FATC]	FIRE ALARM TERMINAL CAN 18" x 18" x 6" PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
[FAEQ]	FIRE ALARM EQUIPMENT CAN - REQ'S SPECIAL BACK BOX PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT WITH BREAKER LOCKING DEVICE. MOUNT AT 60" A.F.F. TO TOP OF BOX. NO CONDUIT SHALL ENTER BOTTOM OF BOX.
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[PIV]	POST INDICATOR VALVE PROVIDED & INSTALLED BY OTHERS. MONITORED BY FIRE ALARM SYSTEM.

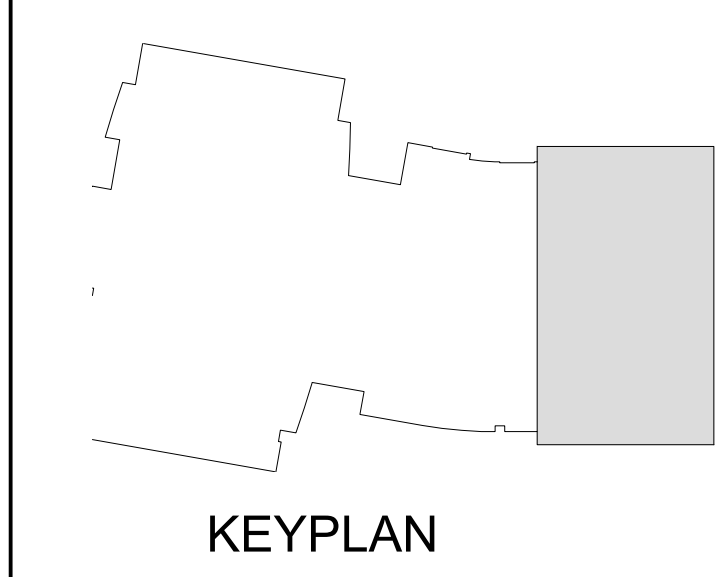


FA3 FIRST FLOOR PLAN - PHASE III
Scale: 1/8" = 1'-0"



Albuquerque Public Schools
Rio Grande High School Gymnasium

ADDRESS
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Albuquerque, NM
87105



Mark	Date	Description
	JANUARY 13, 2020	

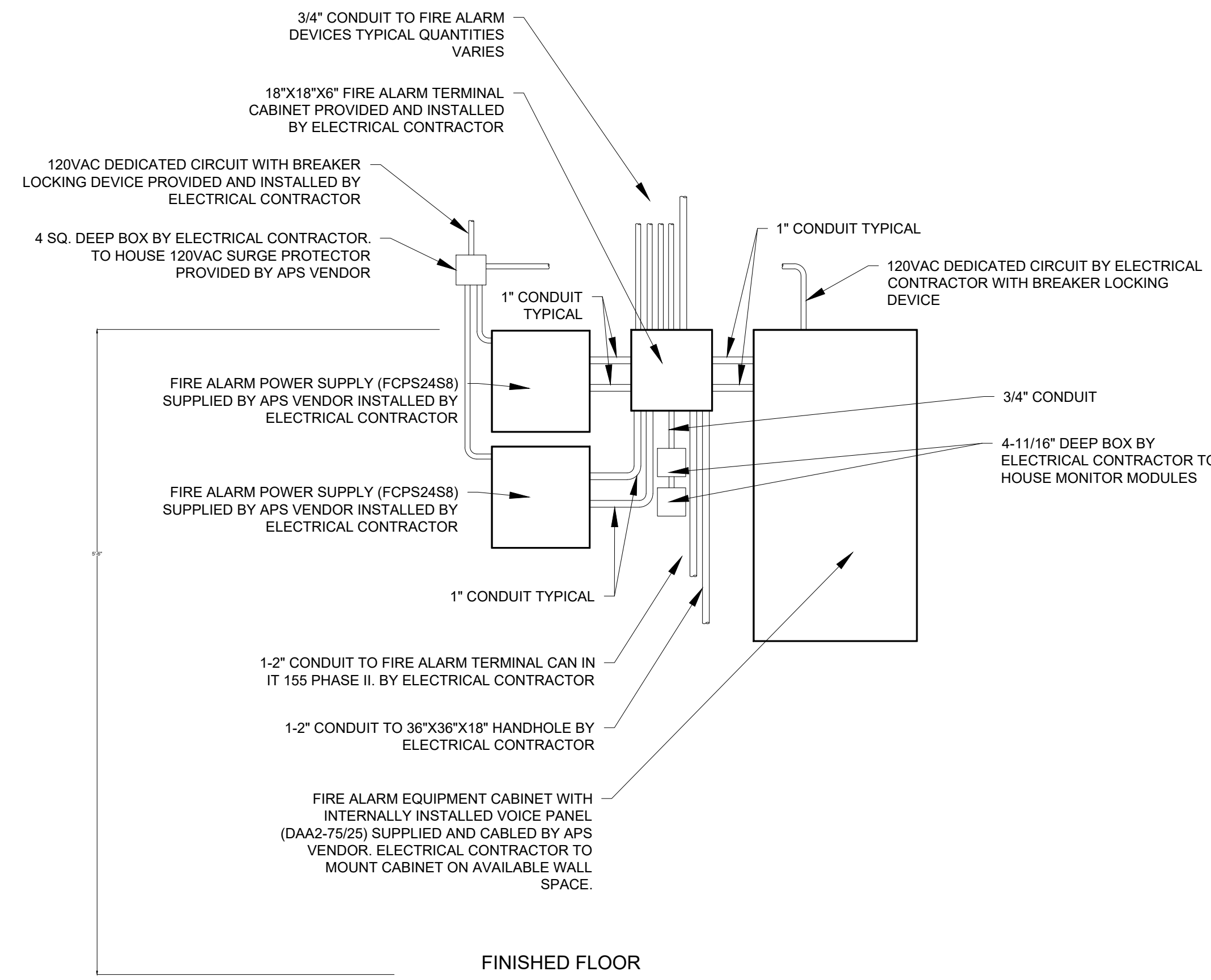
Project Number
Drawn By S&S
Checked By S&S

SHEET TITLE
FIRST FLOOR PLAN - PHASE III

FA-121
SHEET OF

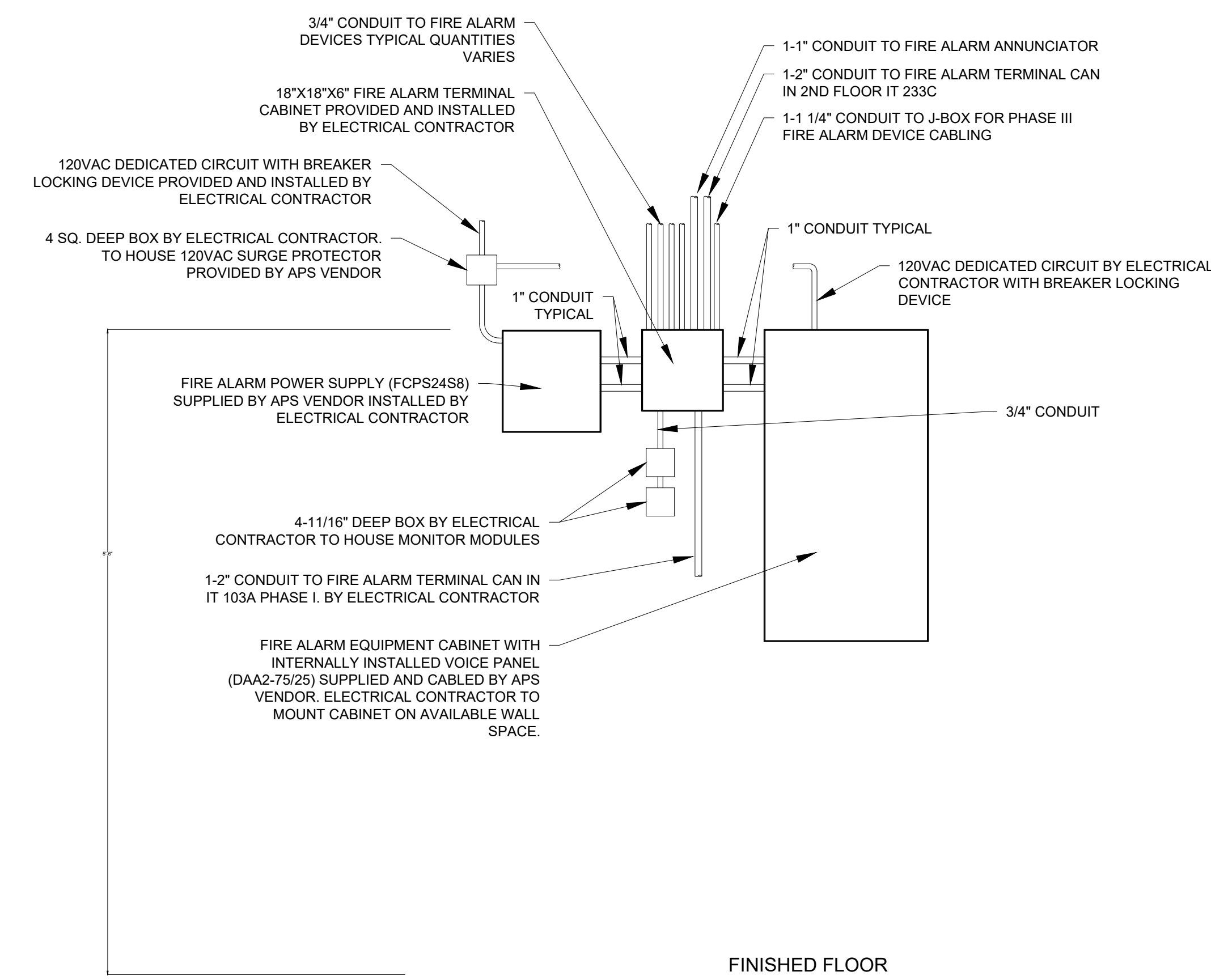
GENERAL SHEET NOTES

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- B. ALL ROUGH-IN AND RACEWAY WITH PULL STRING BY ELECTRICAL CONTRACTOR.



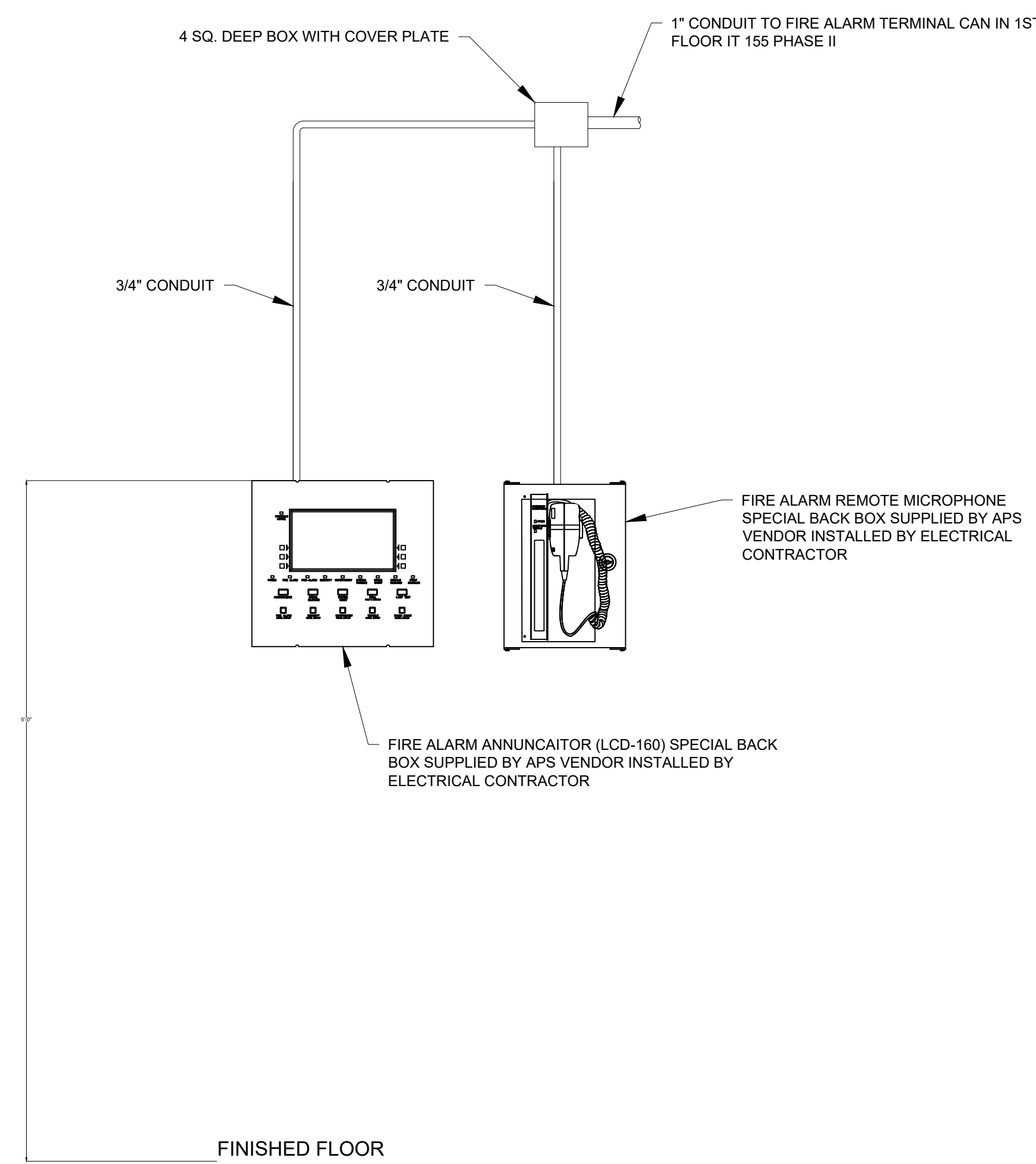
**FIRE ALARM EQUIPMENT
ELEVATION DETAIL PHASE I IT 103A**

1
NTS



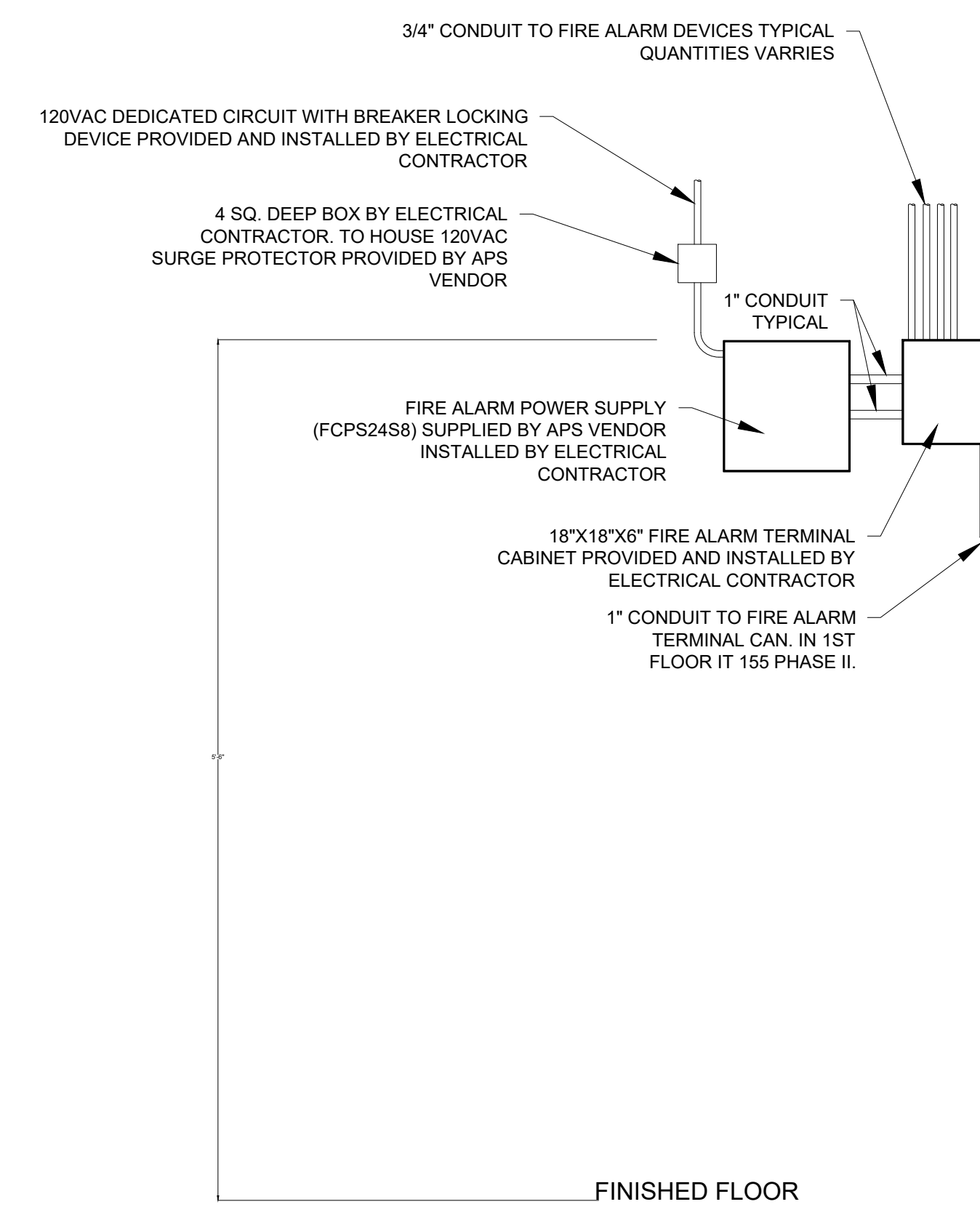
**FIRE ALARM EQUIPMENT
ELEVATION DETAIL PHASE II IT 155**

2
NTS



REMOTE MIC AND ANNUNCIATOR DETAIL

3
NTS



**FIRE ALARM EQUIPMENT
ELEVATION DETAIL PHASE II IT 233C**

4
NTS

PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium

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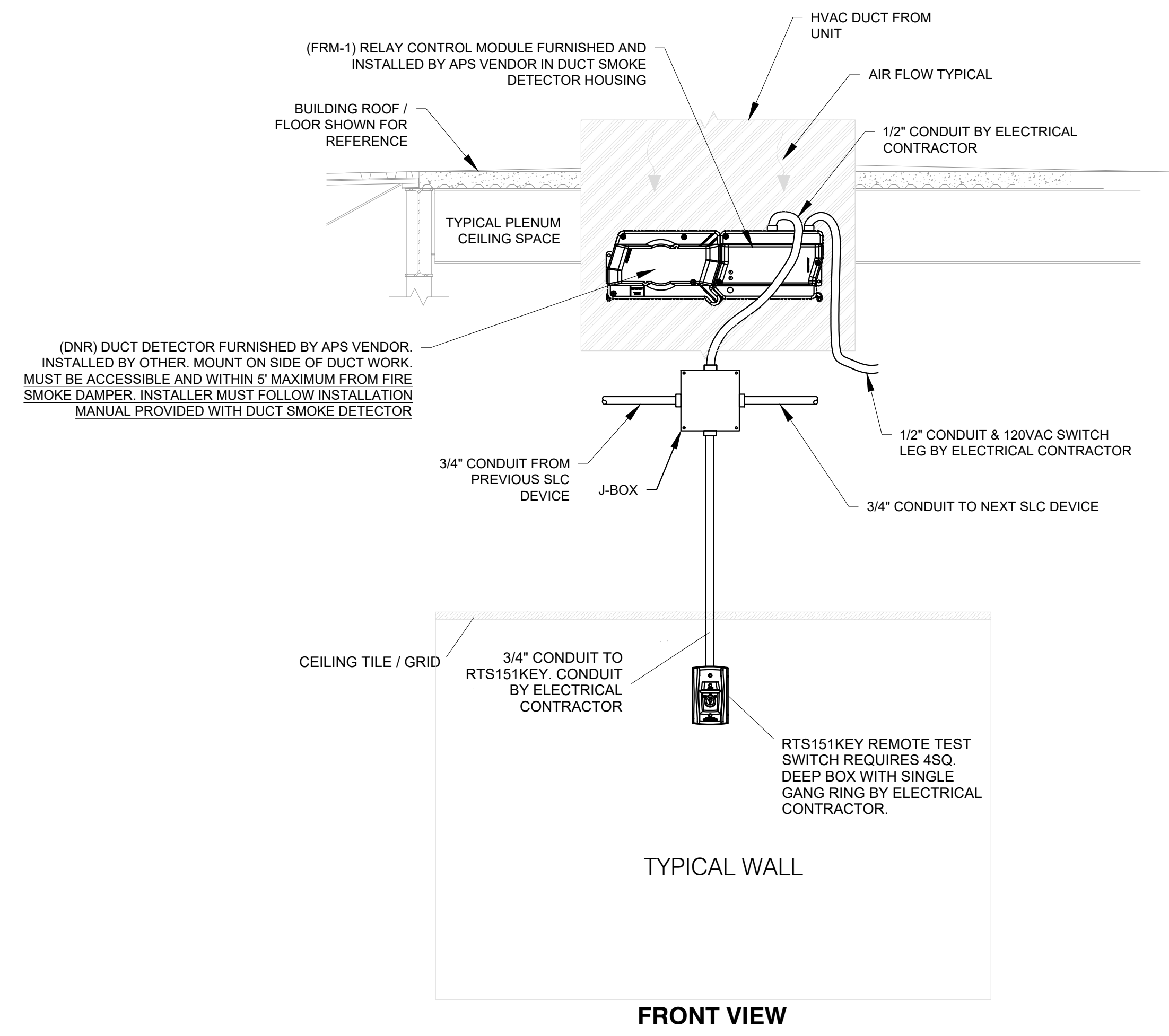
Mark	Date	Description
	JANUARY 13, 2020	

SHEET TITLE
**FIRE ALARM EQUIPMENT
ELEVATION DETAILS**

SHEET
FA-300
OF

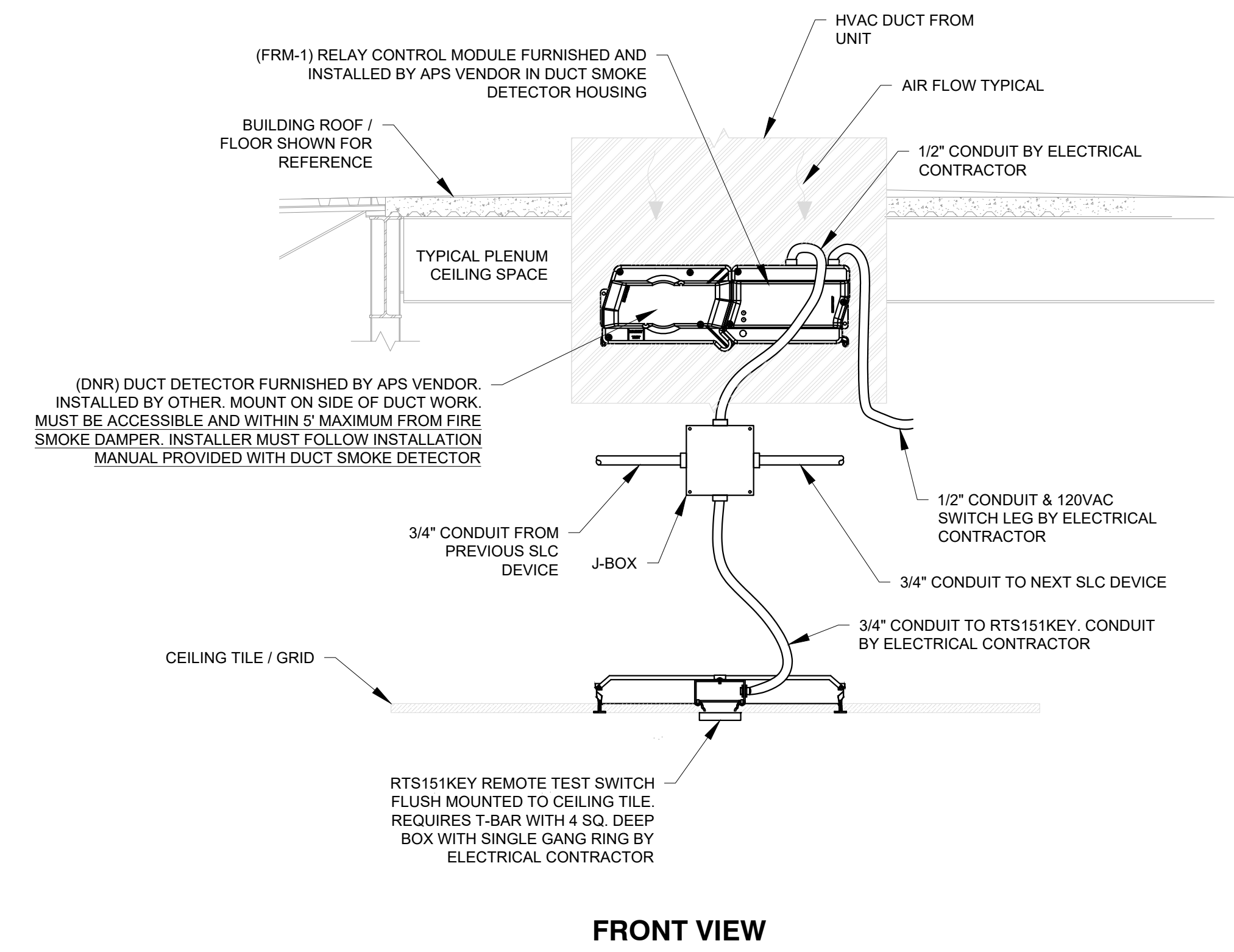
GENERAL SHEET NOTES

- A. FIRE ALARM SYSTEM SHALL BE ENTIRELY IN 3/4" (MIN.) UNLESS NOTED OTHERWISE.
- B. ALL ROUGH-IN AND RACEWAY WITH PULL STRING BY ELECTRICAL CONTRACTOR.



1 **DUCT SMOKE DETECTOR (RTU) / WALL MOUNTED REMOTE TEST SWITCH ROUGH - IN DETAIL**

NTS



2 **DUCT SMOKE DETECTOR (RTU) / CEILING MOUNTED REMOTE TEST SWITCH ROUGH - IN DETAIL**

NTS

PROJECT

Albuquerque Public Schools
Rio Grande High School Gymnasium

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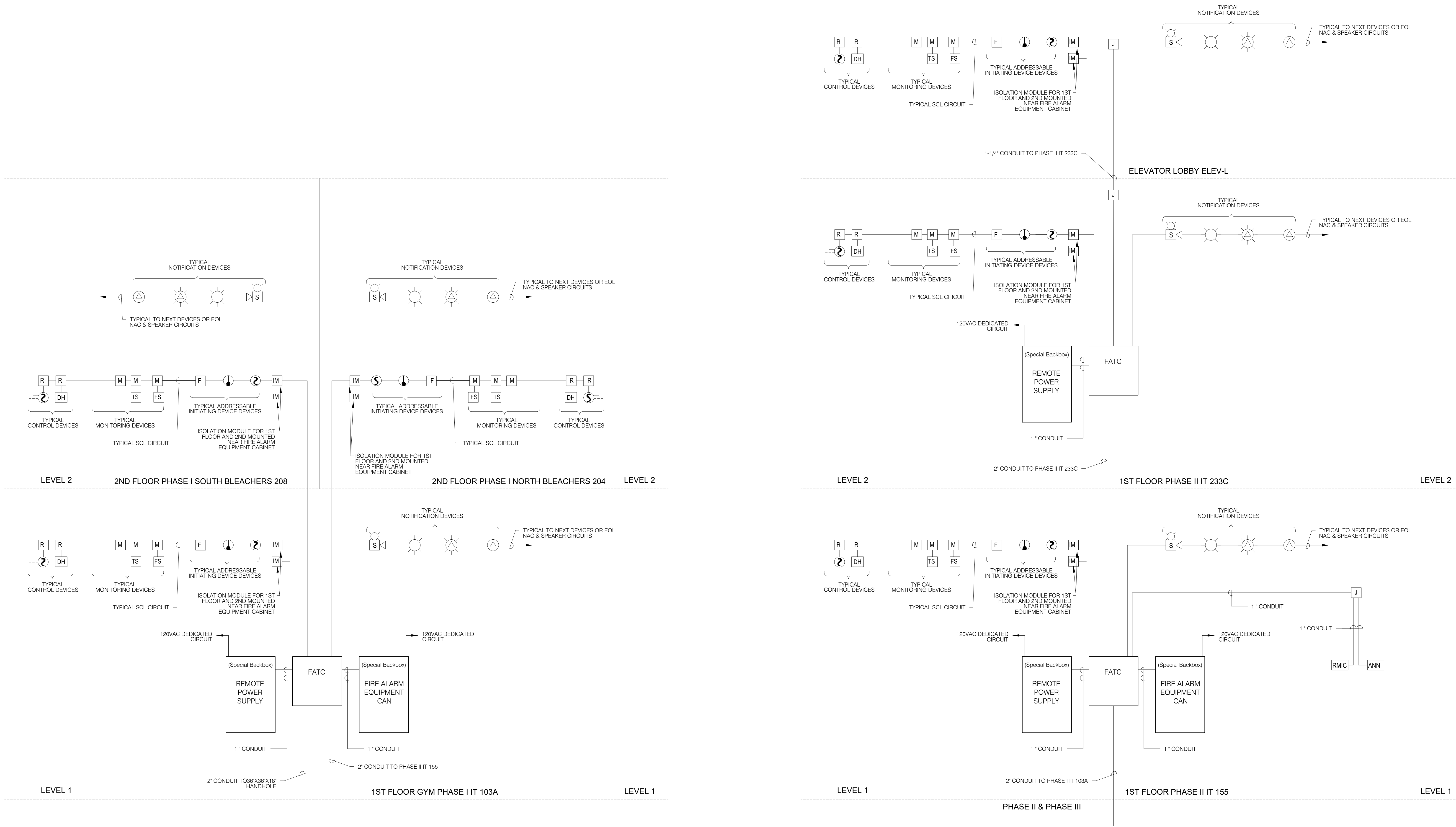
Mark	Date	Description
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Project Number		
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SHEET TITLE
FIRE ALARM EQUIPMENT DETAILS

SHEET **FA-500** OF

GENERAL SHEET NOTES

- A. FIRE ALARM SYSTEM SHALL BE ENTIRELY IN 3/4" (MIN.) UNLESS NOTED OTHERWISE.
- B. ALL ROUGH-IN AND RACEWAY WITH PULL STRING BY ELECTRICAL CONTRACTOR.



FA1 FIRE ALARM EQUIPMENT RISER DIAGRAM
Scale: NOT TO SCALE

PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105

Mark	Date	Description
	JANUARY 13, 2020	

SHEET TITLE
FIRE ALARM EQUIPMENT RISER DIAGRAM

INTRUSION ALARM ZONING

- 1. PHASE 1
 - ZONE A = 1ST FLOOR GYMNASIUM 101
 - ZONE B = 1ST FLOOR NORTH STAIR 1, NORTH CORRIDOR, BOYS LOCKER ROOM AND GIRLS LOCKER ROOM
 - ZONE C = 1ST FLOOR SOUTH STAIR 1, SOUTH CORRIDOR, BOYS ATHLETIC LOCKER ROOM AND GIRLS ATHLETIC LOCKER ROOM
 - ZONE D = 2ND FLOOR NORTH MEZZANINE
 - ZONE E = 2ND FLOOR SOUTH MEZZANINE
- 2. PHASE 2
 - ZONE F = 1ST FLOOR LOBBY, EAST CORRIDOR AND NORTH CORRIDOR
 - ZONE G = WEIGHT ROOM
 - ZONE H = TRAINING ROOM, FOOTBALL COACH ROOM FOOTBALL STORAGE AND WRESTLING LOCKERS
 - ZONE J = 2ND FLOOR LOBBY
- 3. PHASE 3
 - ZONE K = EXISTING WRESTLING
 - ZONE L = EXISTING AUXILIARY GYMNASIUM

GENERAL SHEET NOTES

- A. ALL CCTV NETWORK CABLING CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. ALL ACCESS CONTROL CONDUIT SHALL BE 3/4" C. UNLESS OTHERWISE NOTED.
- C. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- D. COORDINATE ALL ACCESS & SECURITY WITH APS VENDOR.
- E. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- F. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- G. INTRUSION ALARM SHALL BE IN COMPLETE 3/4" CONDUIT SYSTEM.

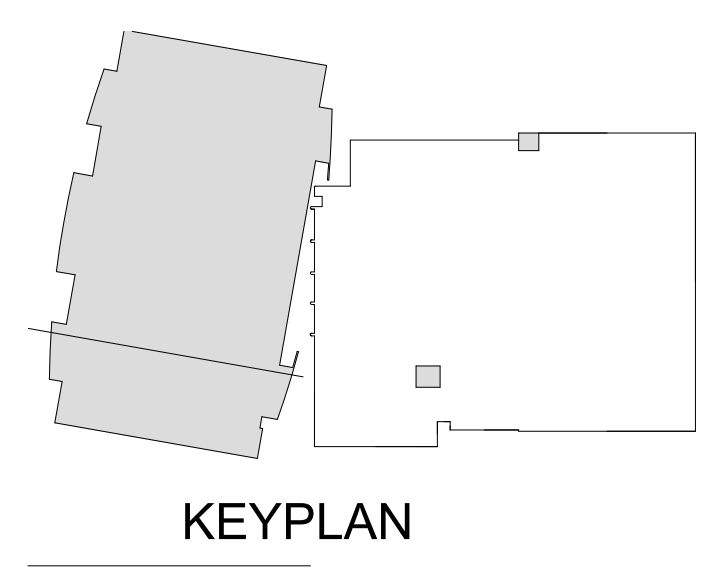
KEYNOTES

- 1. ACCESS CONTROL PANEL PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC. REFER TO ACCESS CONTROL PANEL DETAIL.
- 2. ACCESS CONTROL POWER SUPPLY BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC. REFER TO POWER SUPPLY PANEL DETAIL.
- 3. INTRUSION ALARM/SECURITY TERMINAL CAN 18X18X6 HINGED NEMA 1 BOX. PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC RECEPTACLE INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTRUSION ALARM/SECURITY TERMINAL CAN DETAIL.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. TO IN GROUND 36"X36"X18" HANDHOLES FOR INTRUSION ALARM/SECURITY CABLING.
- 5. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING FROM IT 103A TO 2ND FLOOR NORTH MEZZANINE BLEACHERS 204. REFER TO SHEET TY-103.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTRUSION ALARM/SECURITY CABLING FROM IT 103A TO 1ST FLOOR IT 155 PHASE II.
- 7. ELECTRICAL CONTRACTOR TO CAP OFF CONDUIT TO PREVENT MOISTURE AND CONTINUE TO EXTEND CONDUIT DURING PHASE II.
- 8. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY. REFER TO SHEET TY-102.
- 9. ELECTRICAL CONTRACTOR TO PROVIDE J-HOOK PATH FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- 10. TYPICAL 3/4" C. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR INTRUSION ALARM/SECURITY & ACCESS CONTROL CABLING.
- 11. ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO ACCESSIBLE CEILING SPACE / CABLE TRAY FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- 12. ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO CCTV NETWORK CABLING CONNECTION. COORDINATE WITH APS VENDOR AND APS FOR EXACT LOCATION.
- 13. CORNER MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CORNER MOUNT MOUNTING DETAIL.
- 14. LAY-IN CEILING MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CORNER MOUNT MOUNTING DETAIL.
- 15. CEILING MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CEILING MOUNTED DETAIL.
- 16. WALL MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV WALL MOUNTED DETAIL.
- 17. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR CCTV NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION. CONNECTION AND CABLING BY APS VENDOR.
- 18. CARD READER PROVIDED BY APS VENDOR. INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING MOUNT AT 48" AFF TO TOP OF BOX. REFER TO ACCESS CONTROL DETAIL.
- 19. INTRUSION ALARM DOOR CONTACTS PROVIDED BY APS VENDOR. INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY FOR INTRUSION ALARM CABLING. REFER TO SECURITY DOOR DETAILS.
- 20. EXIT MOTION PIR DETECTOR PROVIDED BY APS VENDOR INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING MOUNTED ABOVE DOOR JAM HORIZONTALLY. REFER TO ACCESS CONTROL DOOR DETAILS.
- 21. WALL MOUNTED MOTION DETECTOR PROVIDED BY APS VENDOR INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING. MOUNT AT 90" AFF TO TOP OF BOX.
- 22. CEILING MOUNTED MOTION DETECTOR PROVIDED BY APS VENDOR INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING.
- 23. TYPICAL J-BOX BY ELECTRICAL CONTRACTOR.
- 24. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY UP TO 2ND FLOOR NORTH MEZZANINE INTRUSION ALARM/SECURITY DEVICES. REFER TO REFER TO SHEET TY-103.

DEVICE LEGEND

- | SYMBOL | DESCRIPTION |
|--------|---|
| | ACCESS CONTROL PANEL - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL PANEL DETAIL. |
| | ACCESS CONTROL POWER SUPPLY - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL POWER SUPPLY DETAIL. |
| | INTRUSION ALARM TERMINAL CABINET (18x18x6) HINGED NEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQ. 120V. RECEPTACLE. INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTRUSION ALARM/SECURITY TERMINAL CAN DETAIL. |
| | WALL MOUNT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. MOUNT UP 90" A.F.F. TO TOP. ARROW INDICATES DIRECTION. |
| | CEILING MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. |
| | INTRUSION ALARM DOOR CONTACT PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN / RACEWAY. REFER TO ACCESS CONTROL/SECURITY DOOR DETAIL FOR ROUGH-IN REQUIREMENTS. |
| | CARD READER PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. MOUNT UP 48" A.F.F. TO TOP BOX. FLANGE ADJACENT TO AUTOMATIC DOOR OPENER IF APPLICABLE. EXTEND CONDUIT TO 45Q BOX. LOCATED ABOVE ACCESSIBLE CEILING. SEE ACCESS CONTROL DOOR DETAIL. |
| | EXIT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING MOUNTED HORIZONTALLY ABOVE DOOR JAM. REFER TO ACCESS CONTROL DOOR DETAIL FOR ROUGH-IN REQUIREMENTS. COORDINATE WITH APS VENDOR PRIOR TO ROUGH-IN. |
| | CCTV CAMERA LOCATION PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY. RACEWAY MUST EXTEND TO ACCESSIBLE CEILING SPACE. ADJACENT TO DEVICE. REFER TO CCTV MOUNTING DETAILS. COORDINATE ALL EXTERIOR CAMERA ROUGH-IN HEIGHT AND LOCATION WITH APS AND ARCHITECT PRIOR TO ROUGH-IN. |
| | DATA NETWORK CONNECTION BOX PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4-11/16" DEEP BOX WITH NO RISE SINGLE GANG RING. NETWORK CONNECTION AND CABLING BY APS VENDOR. |

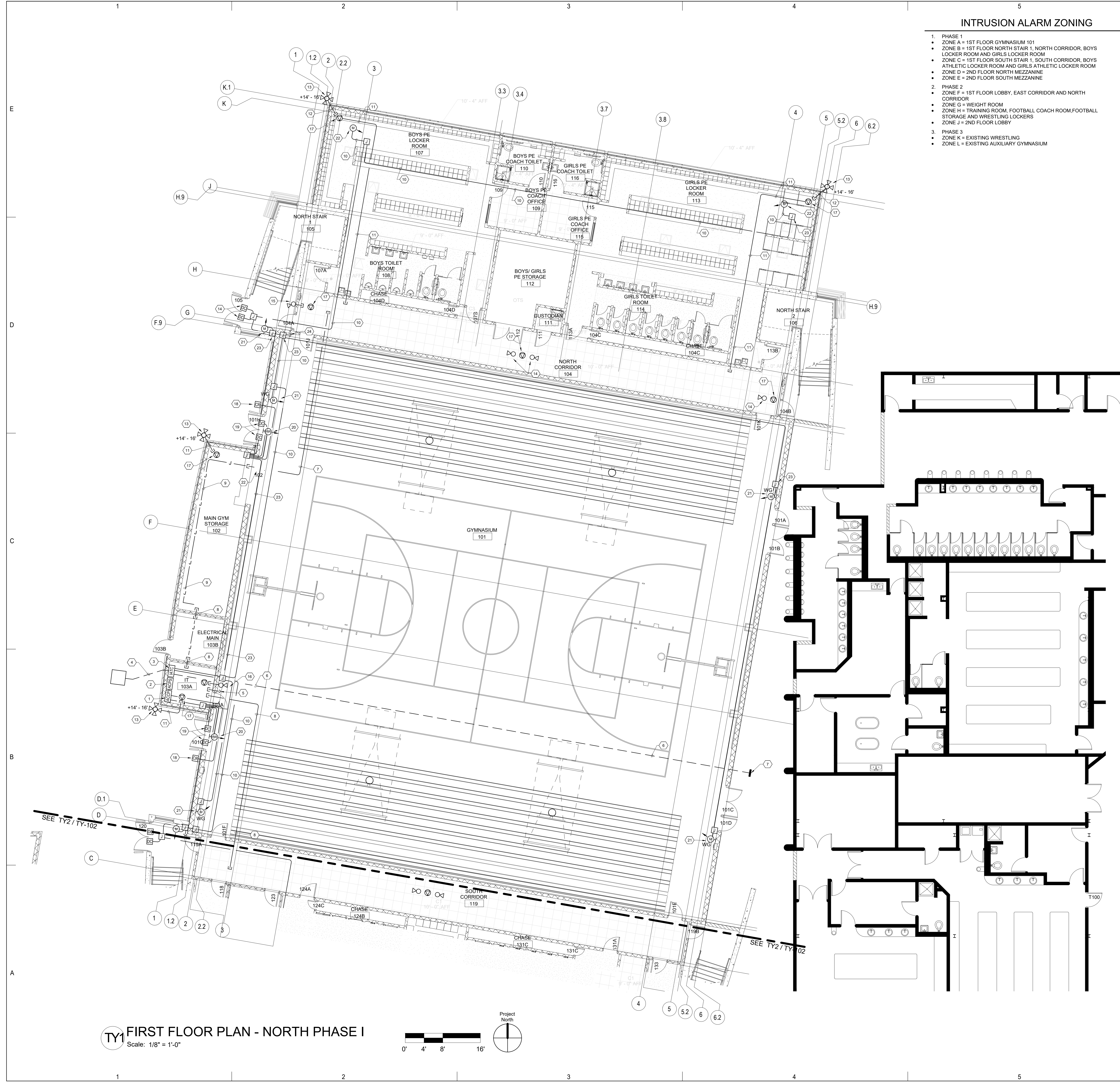
PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



Mark	Date	Description
Date		JANUARY 13, 2020
Project Number		
Drawn By		S&S
Checked By		S&S

SHEET TITLE
FIRST FLOOR PLAN - NORTH PHASE I

TY-101
 SHEET OF



TY FIRST FLOOR PLAN - NORTH PHASE I
 Scale: 1/8" = 1'-0"



INTRUSION ALARM ZONING

- 1. PHASE 1
 - ZONE A = 1ST FLOOR GYMNASIUM 101
 - ZONE B = 1ST FLOOR NORTH STAIR 1, NORTH CORRIDOR, BOYS LOCKER ROOM AND GIRLS LOCKER ROOM
 - ZONE C = 1ST FLOOR SOUTH STAIR 1, SOUTH CORRIDOR, BOYS ATHLETIC LOCKER ROOM AND GIRLS ATHLETIC LOCKER ROOM
 - ZONE D = 2ND FLOOR NORTH MEZZANINE
 - ZONE E = 2ND FLOOR SOUTH MEZZANINE
- 2. PHASE 2
 - ZONE F = 1ST FLOOR LOBBY, EAST CORRIDOR AND NORTH CORRIDOR
 - ZONE G = WEIGHT ROOM
 - ZONE H = TRAINING ROOM, FOOTBALL COACH ROOM, FOOTBALL STORAGE AND WRESTLING LOCKERS
 - ZONE J = 2ND FLOOR LOBBY
- 3. PHASE 3
 - ZONE K = EXISTING WRESTLING
 - ZONE L = EXISTING AUXILIARY GYMNASIUM

GENERAL SHEET NOTES

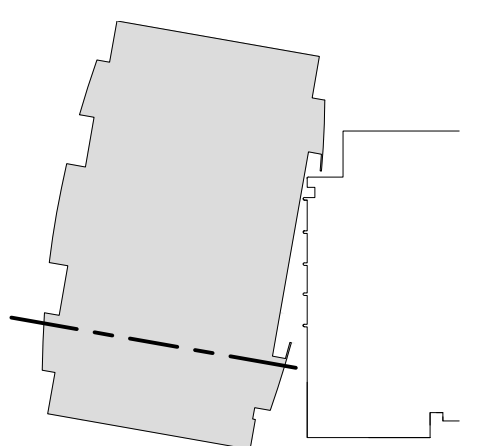
- A. ALL CCTV NETWORK CABLING CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. ALL ACCESS CONTROL CONDUIT SHALL BE 3/4" C. UNLESS OTHERWISE NOTED.
- C. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- D. COORDINATE ALL ACCESS & SECURITY WITH APS VENDOR.
- E. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- F. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- G. INTRUSION ALARM SHALL BE IN COMPLETE 3/4" CONDUIT SYSTEM.

KEYNOTES

- 1. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING FROM IT 103A TO CABLE TRAY. REFER TO SHEET TY-101.
- 2. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE J-HOOK PATH FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- 4. TYPICAL 3/4" C. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR INTRUSION ALARM/SECURITY & ACCESS CONTROL CABLING.
- 5. ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO ACCESSIBLE CEILING SPACE / CABLE TRAY FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO CCTV NETWORK CABLING CONNECTION. COORDINATE WITH APS VENDOR AND APS FOR EXACT LOCATION.
- 7. CORNER MOUNTED CCTV CAMERA PROVIDE AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CORNER MOUNT MOUNTING DETAIL.
- 8. LAY-IN CEILING MOUNTED CCTV CAMERA PROVIDE AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CORNER MOUNT MOUNTING DETAIL.
- 9. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR CCTV NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION CONNECTION AND CABLING BY APS VENDOR.
- 10. INTRUSION ALARM DOOR CONTACTS PROVIDE AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY FOR INTRUSION ALARM CABLING. REFER TO SECURITY DOOR DETAILS.
- 11. WALL MOUNTED MOTION DETECTOR PROVIDE AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING. MOUNT AT 90" AFF TO TOP OF BOX.
- 12. CEILING MOUNTED MOTION DETECTOR PROVIDE AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING.
- 13. TYPICAL J-BOX BY ELECTRICAL CONTRACTOR.
- 14. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY UP TO 2ND FLOOR SOUTH MEZZANINE BLEACHERS 208 FOR INTRUSION ALARM/SECURITY DEVICES. REFER TO REFER TO SHEET TY-104.

PROJECT
 Albuquerque Public Schools
 Rio Grande High School Gymnasium

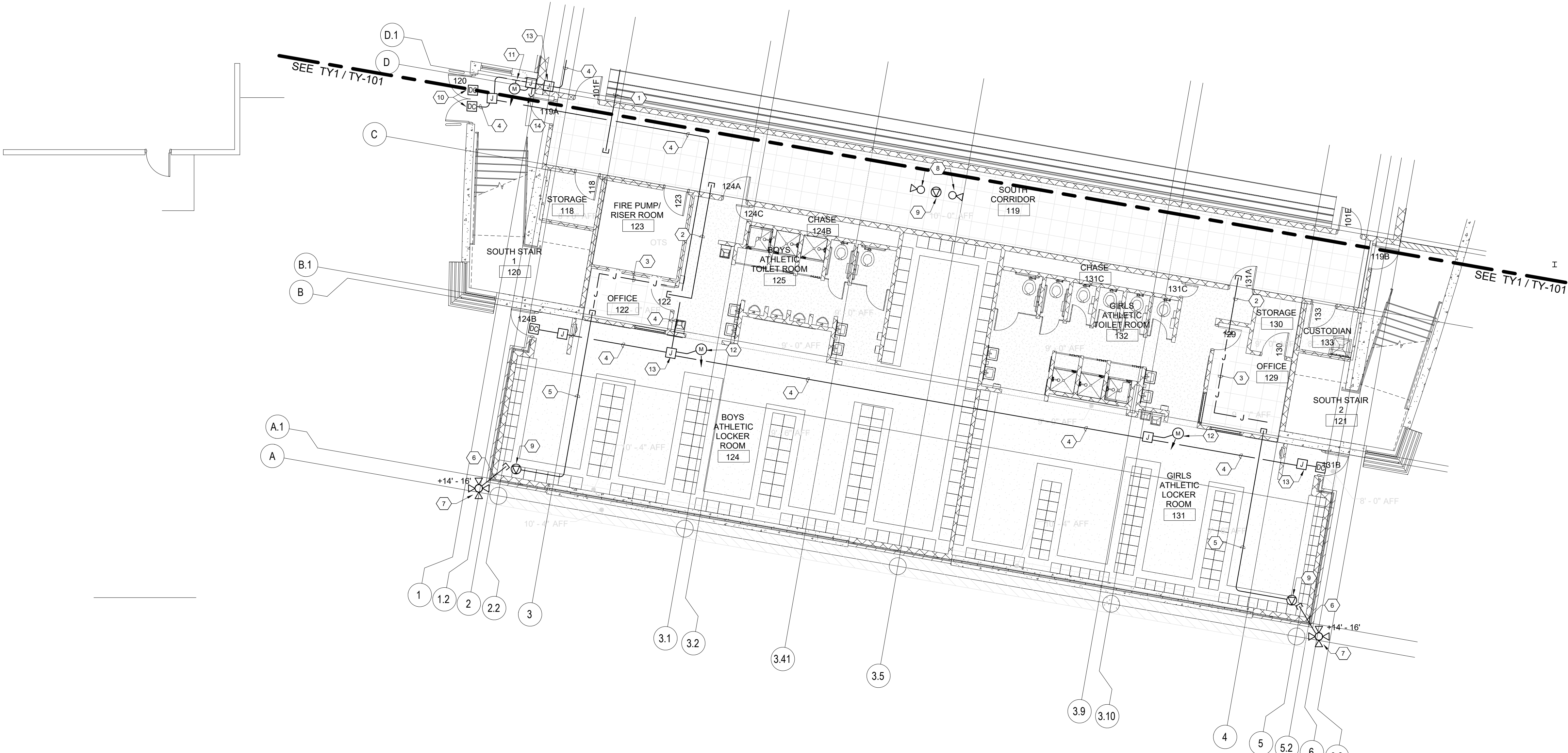
ADDRESS
 2330 Arenal Road SW
 Albuquerque, NM
 87105



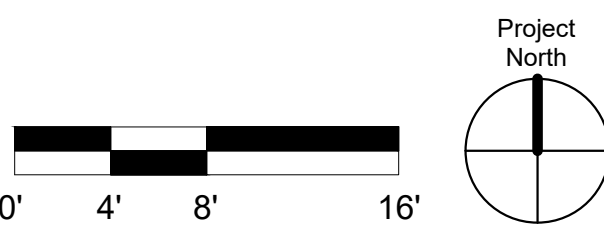
KEYPLAN

DEVICE LEGEND

SYMBOL	DESCRIPTION
ACPT	ACCESS CONTROL PANEL - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL PANEL DETAIL.
ACPS	ACCESS CONTROL POWER SUPPLY - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL POWER SUPPLY DETAIL.
IATC	INTRUSION ALARM TERMINAL CABINET (18x18x6) HINGED NEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQ. 120V. RECEPTACLE. INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTRUSION ALARM/SECURITY TERMINAL CAN DETAIL.
MD	WALL MOUNT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. MOUNT UP 90" A.F.F. TO TOP. ARROW INDICATES DIRECTION.
CM	CEILING MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING.
IC	INTRUSION ALARM DOOR CONTACT PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN / RACEWAY. REFER TO ACCESS CONTROL/SECURITY DOOR DETAIL FOR ROUGH-IN REQUIREMENTS.
CR	CARD READER PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. MOUNT UP 48" A.F.F. TO TOP BOX. PLAGE ADJACENT TO AUTOMATIC DOOR OPENER IF APPLICABLE. EXTEND CONDUIT TO 4SQ BOX. LOCATED ABOVE ACCESSIBLE CEILING. SEE ACCESS CONTROL DOOR DETAIL.
EM	EXIT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING MOUNTED HORIZONTALLY ABOVE DOOR JAM. REFER TO ACCESS CONTROL DOOR DETAIL FOR ROUGH-IN REQUIREMENTS. COORDINATE WITH APS VENDOR PRIOR TO ROUGH-IN.
CC	CCTV CAMERA LOCATION PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY. RACEWAY MUST EXTEND TO ACCESSIBLE CEILING SPACE. ADJACENT TO DEVICE. REFER TO CCTV MOUNTING DETAILS. COORDINATE ALL EXTERIOR CAMERA ROUGH-IN HEIGHT AND LOCATION WITH APS AND ARCHITECT PRIOR TO ROUGH-IN.
DC	DATA NETWORK CONNECTION BOX PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4-11/16" DEEP BOX WITH NO RISE SINGLE GANG RING. NETWORK CONNECTION AND CABLING BY APS VENDOR.



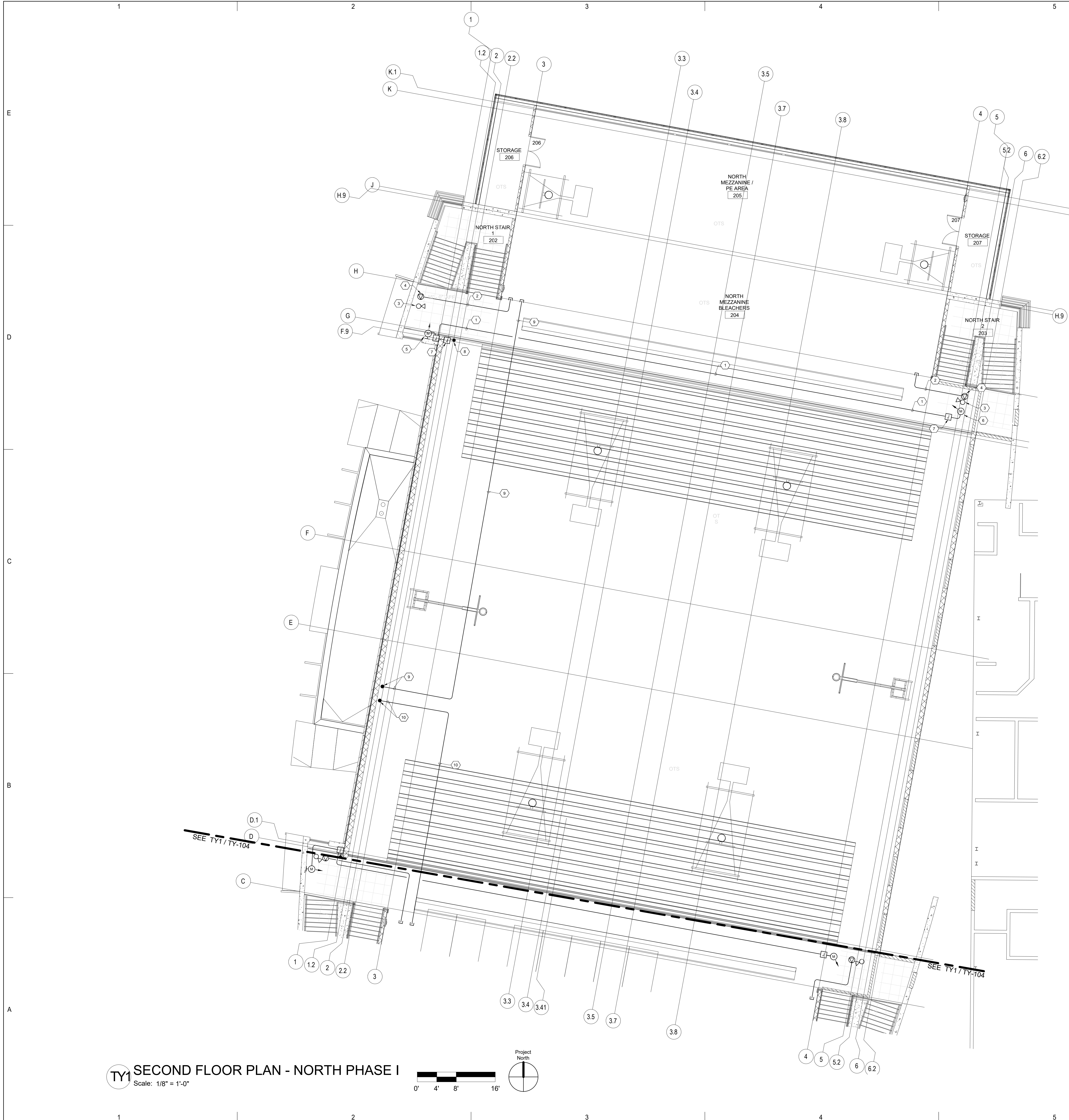
FIRST FLOOR PLAN - SOUTH PHASE I
 Scale: 1/8" = 1'-0"



SHEET TITLE
FIRST FLOOR PLAN - SOUTH PHASE I

TY-102

SHEET OF



GENERAL SHEET NOTES

- A. ALL CCTV NETWORK CABLING CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. ALL ACCESS CONTROL CONDUIT SHALL BE 3/4" C. UNLESS OTHERWISE NOTED.
- C. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- D. COORDINATE ALL ACCESS & SECURITY WITH APS VENDOR.
- E. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- F. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- G. INTRUSION ALARM SHALL BE IN COMPLETE 3/4" CONDUIT SYSTEM.

KEYNOTES

1. TYPICAL 3/4" C. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR INTRUSION ALARM/SECURITY & ACCESS CONTROL CABLING.
2. ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO ACCESSIBLE CEILING SPACE / CABLE TRAY FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
3. LAY-IN CEILING MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CORNER MOUNT MOUNTING DETAIL.
4. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR CCTV NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION. CONNECTION AND CABLING BY APS VENDOR.
5. WALL MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE DEEP BOX WITH SINGLE GANG RING. MOUNT AT 90° AFF TO TOP OF BOX.
6. CEILING MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE DEEP BOX WITH SINGLE GANG RING.
7. TYPICAL J-BOX BY ELECTRICAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY DOWN TO 1ST FLOOR NORTH FOR INTRUSION ALARM/SECURITY DEVICES. REFER TO REFER TO SHEET TY-101.
9. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING TO IT 103A FROM 2ND FLOOR NORTH MEZZANINE BLEACHERS 204 ACCESSIBLE CEILING SPACE / CABLE TRAY FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY. REFER TO SHEET TY-101.
10. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING TO IT 103A FROM 2ND FLOOR SOUTH MEZZANINE BLEACHERS 208 ACCESSIBLE CEILING SPACE / CABLE TRAY FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY. REFER TO SHEET TY-101 & TY-104.

INTRUSION ALARM ZONING

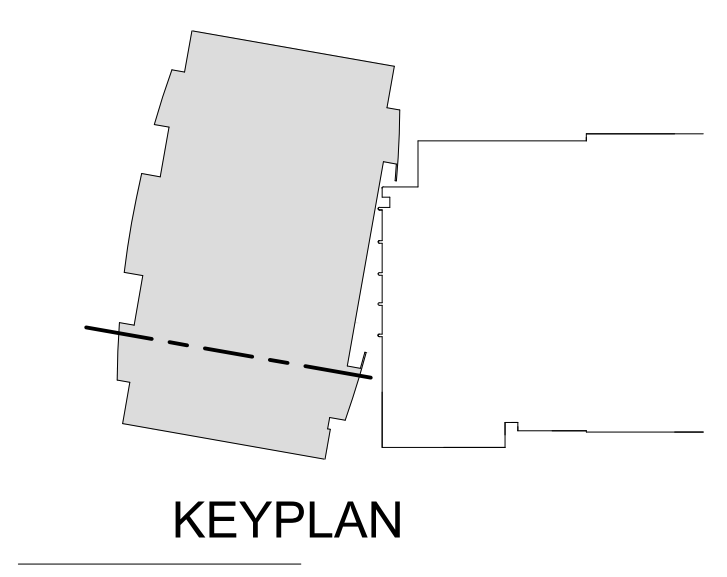
1. PHASE 1
 - ZONE A = 1ST FLOOR GYMNASIUM 101
 - ZONE B = 1ST FLOOR NORTH STAIR 1, NORTH CORRIDOR, BOYS LOCKER ROOM AND GIRLS LOCKER ROOM
 - ZONE C = 1ST FLOOR SOUTH STAIR 1, SOUTH CORRIDOR, BOYS ATHLETIC LOCKER ROOM AND GIRLS ATHLETIC LOCKER ROOM
 - ZONE D = 2ND FLOOR NORTH MEZZANINE
 - ZONE E = 2ND FLOOR SOUTH MEZZANINE
2. PHASE 2
 - ZONE F = 1ST FLOOR LOBBY, EAST CORRIDOR AND NORTH CORRIDOR
 - ZONE G = WEIGHT ROOM
 - ZONE H = TRAINING ROOM, FOOTBALL COACH ROOM, FOOTBALL STORAGE AND WRESTLING LOCKERS
 - ZONE J = 2ND FLOOR LOBBY
3. PHASE 3
 - ZONE K = EXISTING WRESTLING
 - ZONE L = EXISTING AUXILIARY GYMNASIUM

DEVICE LEGEND

SYMBOL	DESCRIPTION
	ACCESS CONTROL PANEL - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL PANEL DETAIL.
	ACCESS CONTROL POWER SUPPLY - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL POWER SUPPLY DETAIL.
	INTRUSION ALARM TERMINAL CABINET (18x18x6) HINGED NIEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQ. 120V. RECEPTACLE. INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTRUSION ALARM/SECURITY TERMINAL CAN DETAIL.
	WALL MOUNT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. MOUNT UP 90° A.F.F. TO TOP. ARROW INDICATES DIRECTION.
	CEILING MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING.
	INTRUSION ALARM DOOR CONTACT PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN / RACEWAY. REFER TO ACCESS CONTROL/SECURITY DOOR DETAIL FOR ROUGH-IN REQUIREMENTS.
	CARD READER PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. MOUNT UP 48" A.F.F. TO TOP BOX. PLACE ADJACENT TO AUTOMATIC DOOR OPERNER IF APPLICABLE. EXTEND CONDUIT TO 4SQ BOX. LOCATED ABOVE ACCESSIBLE CEILING. SEE ACCESS CONTROL DOOR DETAIL.
	EXIT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING MOUNTED HORIZONTALLY ABOVE DOOR JAM. REFER TO ACCESS CONTROL DOOR DETAIL FOR ROUGH-IN REQUIREMENTS. COORDINATE WITH APS VENDOR PRIOR TO ROUGH-IN.
	CCTV CAMERA LOCATION PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY. RACEWAY MUST EXTEND TO ACCESSIBLE CEILING SPACE. ADJACENT TO DEVICE. REFER TO CCTV MOUNTING DETAILS. COORDINATE ALL EXTERIOR CAMERA ROUGH-IN HEIGHT AND LOCATION WITH APS AND ARCHITECT PRIOR TO ROUGH-IN.
	DATA NETWORK CONNECTION BOX PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" DEEP BOX WITH NO RISE SINGLE GANG RING. NETWORK CONNECTION AND CABLING BY APS VENDOR.

PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium

ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



Mark	Date	Description
Date	JANUARY 13, 2020	
Project Number		
Drawn By		S&S
Checked By		S&S

SHEET TITLE
SECOND FLOOR PLAN - NORTH PHASE I

TY-103
 SHEET OF

TY1 SECOND FLOOR PLAN - NORTH PHASE I
 Scale: 1/8" = 1'-0"

Project North

GENERAL SHEET NOTES

- A. ALL CCTV NETWORK CABLING CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. ALL ACCESS CONTROL CONDUIT SHALL BE 3/4" C. UNLESS OTHERWISE NOTED.
- C. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- D. COORDINATE ALL ACCESS & SECURITY WITH APS VENDOR.
- E. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- F. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- G. INTRUSION ALARM SHALL BE IN COMPLETE 3/4" CONDUIT SYSTEM.

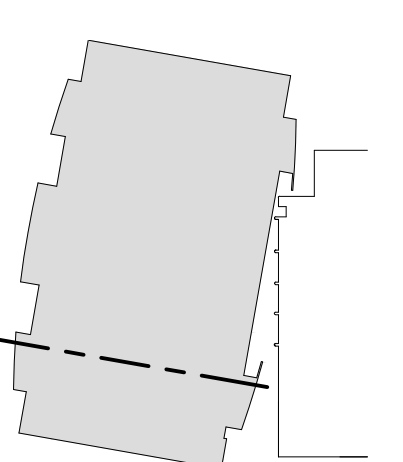
KEYNOTES

1. TYPICAL 3/4" C. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR INTRUSION ALARM/SECURITY & ACCESS CONTROL CABLING.
2. ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO ACCESSIBLE CEILING SPACE / CABLE TRAY FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
3. ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO CCTV NETWORK CABLING CONNECTION. COORDINATE WITH APS VENDOR AND APS FOR EXACT LOCATION.
4. LAY-IN CEILING MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CORNER MOUNT MOUNTING DETAIL.
5. WALL MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV WALL MOUNTED DETAIL.
6. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR CCTV NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION. CONNECTION AND CABLING BY APS VENDOR.
7. WALL MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING. MOUNT AT 90" AFF TO TOP OF BOX.
8. CEILING MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING.
9. TYPICAL J-BOX BY ELECTRICAL CONTRACTOR.
10. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY DOWN TO 1ST FLOOR NORTH FOR INTRUSION ALARM/SECURITY DEVICES. REFER TO REFER TO SHEET TY-102.
11. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING TO IT 103A FROM 2ND FLOOR SOUTH MEZZANINE BLEACHERS 208 ACCESSIBLE CEILING SPACE / CABLE TRAY FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY. REFER TO SHEET TY-101.

INTRUSION ALARM ZONING

1. PHASE 1
 - ZONE A = 1ST FLOOR GYMNASIUM 101
 - ZONE B = 1ST FLOOR NORTH STAIR 1, NORTH CORRIDOR, BOYS LOCKER ROOM AND GIRLS LOCKER ROOM
 - ZONE C = 1ST FLOOR SOUTH STAIR 1, SOUTH CORRIDOR, BOYS ATHLETIC LOCKER ROOM AND GIRLS ATHLETIC LOCKER ROOM
 - ZONE D = 2ND FLOOR NORTH MEZZANINE
 - ZONE E = 2ND FLOOR SOUTH MEZZANINE
2. PHASE 2
 - ZONE F = 1ST FLOOR LOBBY, EAST CORRIDOR AND NORTH CORRIDOR
 - ZONE G = WEIGHT ROOM
 - ZONE H = TRAINING ROOM, FOOTBALL COACH ROOM, FOOTBALL STORAGE AND WRESTLING LOCKERS
 - ZONE J = 2ND FLOOR LOBBY
3. PHASE 3
 - ZONE K = EXISTING WRESTLING
 - ZONE L = EXISTING AUXILIARY GYMNASIUM

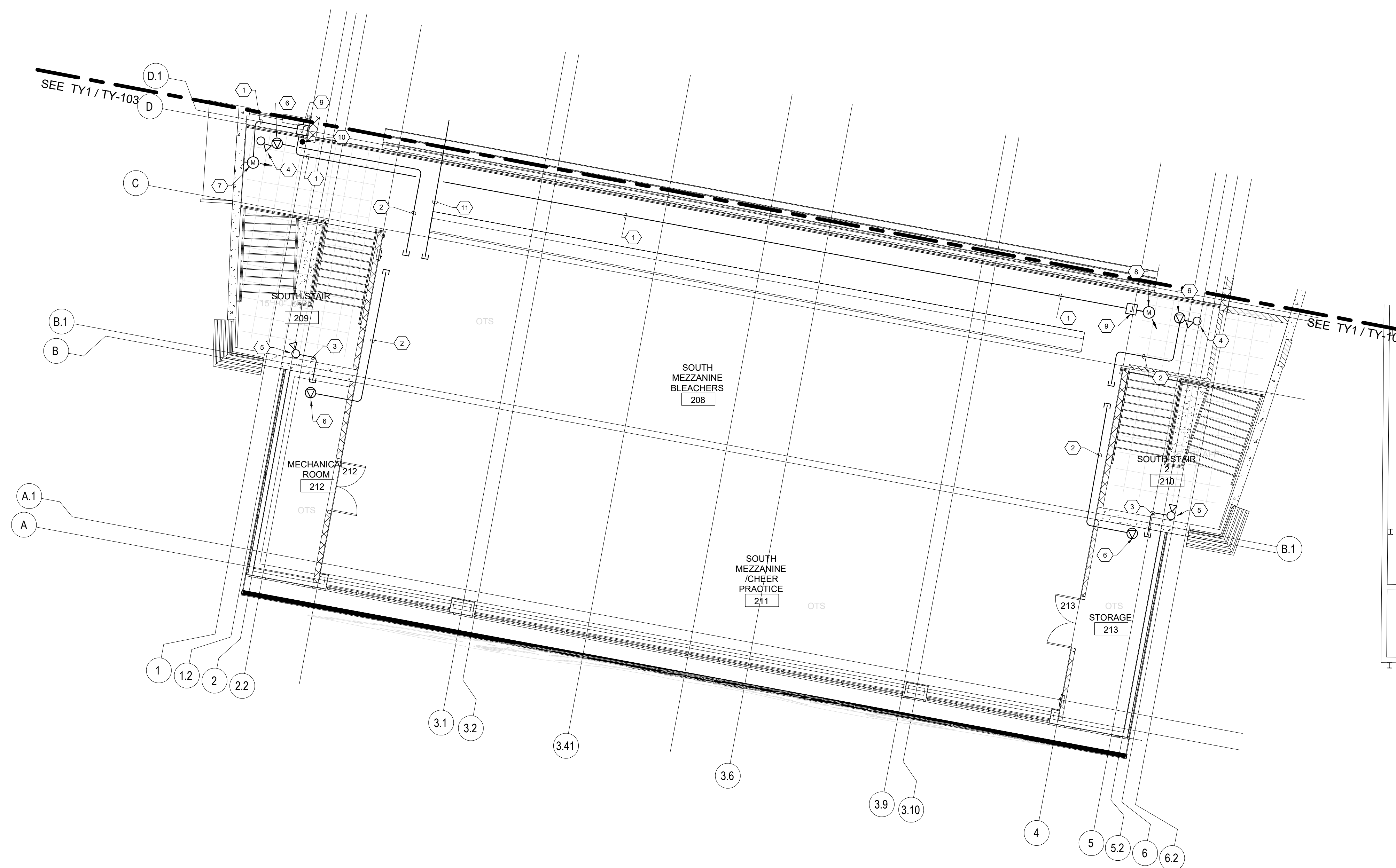
PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
 2330 Arenal Road SW
 Albuquerque, NM
 87105



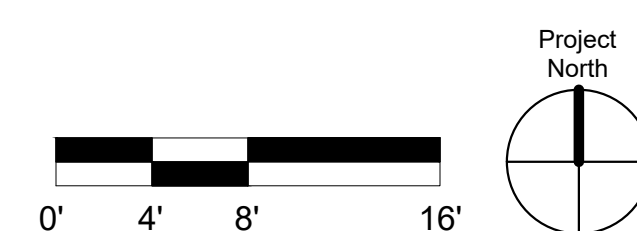
KEYPLAN

DEVICE LEGEND

SYMBOL	DESCRIPTION
[ACCP]	ACCESS CONTROL PANEL - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL PANEL DETAIL.
[ACPS]	ACCESS CONTROL POWER SUPPLY - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL POWER SUPPLY DETAIL.
[IATC]	INTRUSION ALARM TERMINAL CABINET (18x18x6) HINGED NEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQ. 120V. RECEPTACLE. INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTRUSION ALARM/SECURITY TERMINAL CAN DETAIL.
[M]	WALL MOUNT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE RING. MOUNT UP 90" A.F.F. TO TOP. ARROW INDICATES DIRECTION.
[C]	CEILING MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE RING.
[DC]	INTRUSION ALARM DOOR CONTACT PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN / RACEWAY. REFER TO ACCESS CONTROL/SECURITY DOOR DETAIL FOR ROUGH-IN REQUIREMENTS.
[CR]	CARD READER PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE RING. MOUNT UP 48" A.F.F. TO TOP BOX. PLACE ADJACENT TO AUTOMATIC DOOR OPERATOR IF APPLICABLE. EXTEND CONDUIT TO 4SQ BOX. LOCATED ABOVE ACCESSIBLE CEILING. SEE ACCESS CONTROL DOOR DETAIL.
[EMD]	EXIT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE RING. MOUNTED HORIZONTALLY ABOVE DOOR JAM. REFER TO ACCESS CONTROL DOOR DETAIL FOR ROUGH IN REQUIREMENTS. COORDINATE WITH APS VENDOR PRIOR TO ROUGH-IN.
[CC]	CCTV CAMERA LOCATION PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY. RACEWAY MUST EXTEND TO ACCESSIBLE CEILING SPACE. ADJACENT TO DEVICE. REFER TO CCTV MOUNTING DETAILS. COORDINATE ALL EXTERIOR CAMERA ROUGH-IN HEIGHT AND LOCATION WITH APS AND ARCHITECT PRIOR TO ROUGH-IN.
[DCB]	DATA NETWORK CONNECTION BOX PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" DEEP BOX WITH NO RISE SINGLE GANG RING. NETWORK CONNECTION AND CABLING BY APS VENDOR.



TY SECOND FLOOR PLAN - SOUTH PHASE I
 Scale: 1/8" = 1'-0"



SHEET TITLE
SECOND FLOOR PLAN - SOUTH PHASE I
 TY-104
 SHEET OF

INTRUSION ALARM ZONING

- 1. PHASE I
 - ZONE A = 1ST FLOOR GYMNASIUM 101
 - ZONE B = 1ST FLOOR NORTH STAIR 1, NORTH CORRIDOR, BOYS LOCKER ROOM AND GIRLS LOCKER ROOM
 - ZONE C = 1ST FLOOR SOUTH STAIR 1, SOUTH CORRIDOR, BOYS ATHLETIC LOCKER ROOM AND GIRLS ATHLETIC LOCKER ROOM
 - ZONE D = 2ND FLOOR NORTH MEZZANINE
 - ZONE E = 2ND FLOOR SOUTH MEZZANINE
- 2. PHASE 2
 - ZONE F = 1ST FLOOR LOBBY, EAST CORRIDOR AND NORTH CORRIDOR
 - ZONE G = WEIGHT ROOM
 - ZONE H = TRAINING ROOM, FOOTBALL COACH ROOM, FOOTBALL STORAGE AND WRESTLING LOCKERS
 - ZONE J = 2ND FLOOR LOBBY
- 3. PHASE 3
 - ZONE K = EXISTING WRESTLING
 - ZONE L = EXISTING AUXILIARY GYMNASIUM

GENERAL SHEET NOTES

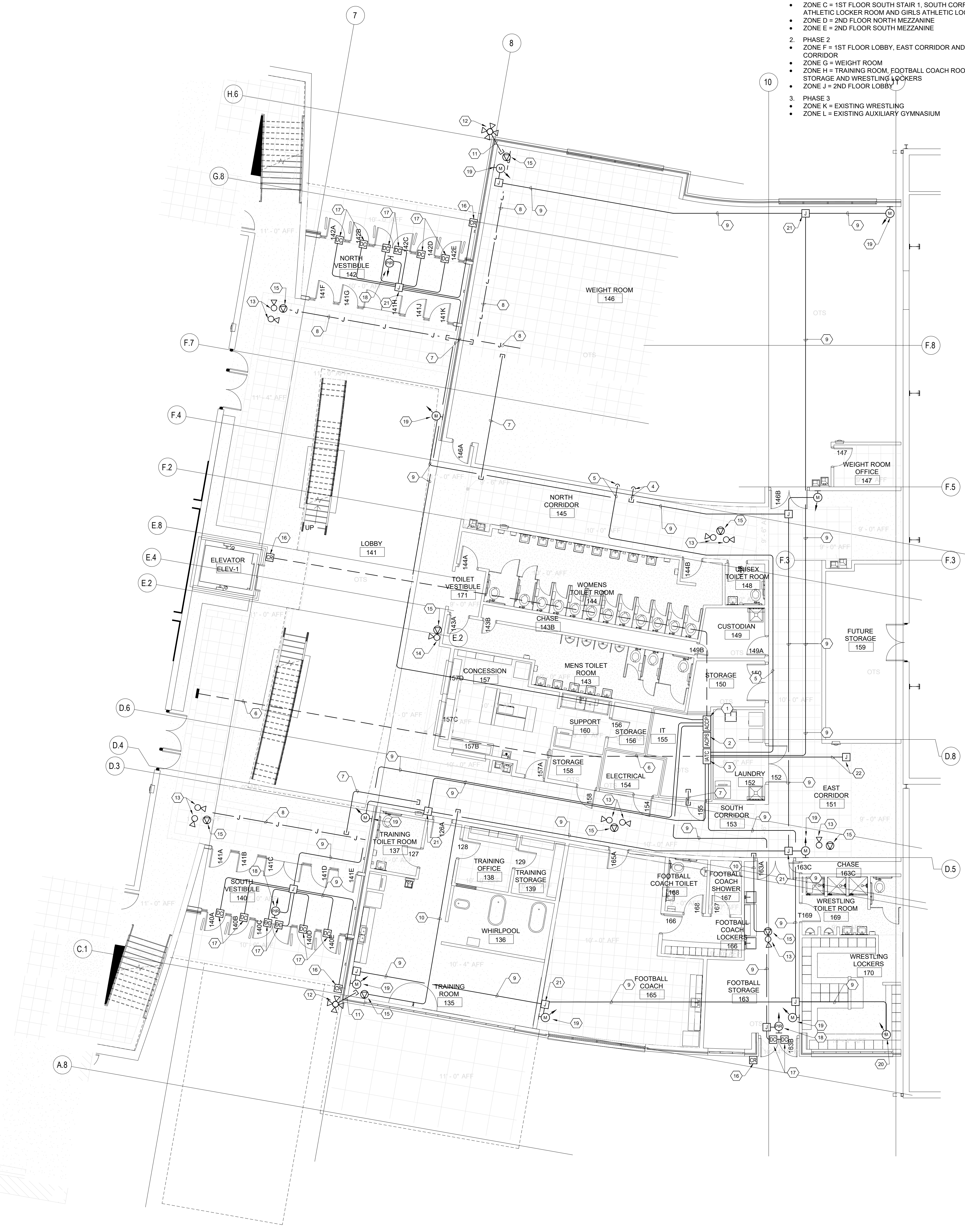
- A. ALL CCTV NETWORK CABLING CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. ALL ACCESS CONTROL CONDUIT SHALL BE 3/4" C. UNLESS OTHERWISE NOTED.
- C. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- D. COORDINATE ALL ACCESS & SECURITY WITH APS VENDOR.
- E. ALL DATA DEVICE BOXES SHALL BE 4 1/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- F. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- G. INTRUSION ALARM SHALL BE IN COMPLETE 3/4" CONDUIT SYSTEM.

KEYNOTES

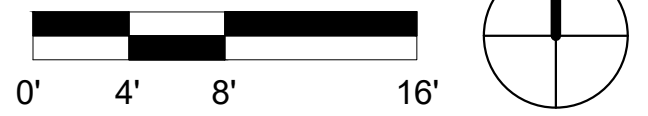
- ACCESS CONTROL PANEL PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC. REFER TO ACCESS CONTROL PANEL DETAIL.
- ACCESS CONTROL POWER SUPPLY BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC. REFER TO POWER SUPPLY PANEL DETAIL.
- INTRUSION ALARM/SECURITY TERMINAL CAN 18X18X6 HINGED NEMA 1 BOX. PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC RECEPTACLE INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTRUSION ALARM/SECURITY TERMINAL CAN DETAIL.
- ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING TO IT 233C IN 2ND FLOOR PHASE II CABLE TRAY/LADDER RACK. REFER TO SHEET TY-112.
- ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTRUSION ALARM/SECURITY CABLING TO INTRUSION ALARM TERMINAL CAN IN IT 233C IN 2ND FLOOR PHASE II. REFER TO SHEET TY-112.
- ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTRUSION ALARM/SECURITY CABLING FROM IT 100A PHASE I TO 1ST FLOOR IT 155 PHASE II.
- ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- ELECTRICAL CONTRACTOR TO PROVIDE J-HOOK PATH FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- TYPICAL 3/4" C. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR INTRUSION ALARM/SECURITY & ACCESS CONTROL CABLING.
- ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO ACCESSIBLE CEILING SPACE / CABLE TRAY FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO CCTV NETWORK CABLING CONNECTION. COORDINATE WITH APS VENDOR AND APS FOR EXACT LOCATION.
- CORNER MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CORNER MOUNT MOUNTING DETAIL.
- LAY-IN/HAR-LID/OPEN TO STRUCTURE CEILING MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CORNER MOUNT MOUNTING DETAIL.
- WALL MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV WALL MOUNTED DETAIL.
- ELECTRICAL CONTRACTOR TO PROVIDE 4 1/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR CCTV NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION. CONNECTION AND CABLING BY APS VENDOR.
- CARD READER PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING MOUNT AT 48" AFF TO TOP OF BOX. REFER TO ACCESS CONTROL DETAIL.
- INTRUSION ALARM DOOR CONTACTS PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY FOR INTRUSION ALARM CABLING. REFER TO SECURITY DOOR DETAILS.
- EXIT MOTION PIR DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING MOUNTED ABOVE DOOR JAM HORIZONTALLY. REFER TO ACCESS CONTROL DOOR DETAILS.
- WALL MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING. MOUNT AT 90" AFF TO TOP OF BOX.
- CEILING MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING.
- TYPICAL 450X BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C AND J-BOX FOR INTRUSION ALARM/SECURITY CABLING FOR ZONE K & L FOR PHASE III.

DEVIATION LEGEND

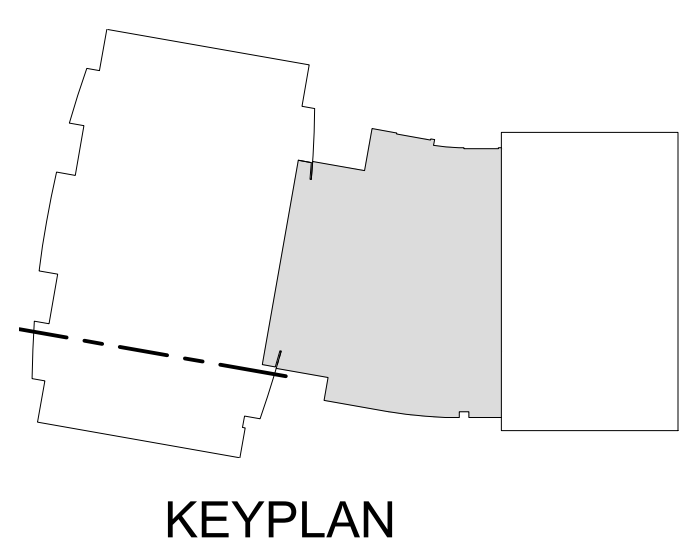
- | SYMBOL | DESCRIPTION |
|--------|---|
| | ACCESS CONTROL PANEL - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL PANEL DETAIL. |
| | ACCESS CONTROL POWER SUPPLY - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL POWER SUPPLY DETAIL. |
| | INTRUSION ALARM TERMINAL CABINET (18X18X6) HINGED NEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQ. 120V. RECEPTACLE. INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTRUSION ALARM/SECURITY TERMINAL CAN DETAIL. |
| | WALL MOUNT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. MOUNT UP 90" A.F.F. TO TOP. ARROW INDICATES DIRECTION. |
| | CEILING MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. |
| | INTRUSION ALARM DOOR CONTACT PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN / RACEWAY. REFER TO ACCESS CONTROL/SECURITY DOOR DETAIL FOR ROUGH-IN REQUIREMENTS. |
| | CARD READER PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. MOUNT UP 48" A.F.F. TO TOP BOX. PLACE ADJACENT TO AUTOMATIC DOOR OPERATOR IF APPLICABLE. EXTEND CONDUIT TO 45Q BOX. LOCATED ABOVE ACCESSIBLE CEILING. SEE ACCESS CONTROL DOOR DETAIL. |
| | EXIT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING MOUNTED HORIZONTALLY ABOVE DOOR JAM. REFER TO ACCESS CONTROL DOOR DETAIL FOR ROUGH IN REQUIREMENTS. COORDINATE WITH APS VENDOR. PRIOR TO ROUGH-IN. |
| | CCTV CAMERA LOCATION PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY. RACEWAY MUST EXTEND TO ACCESSIBLE CEILING SPACE. ADJACENT TO DEVICE. REFER TO CCTV MOUNTING DETAILS. COORDINATE ALL EXTERIOR CAMERA ROUGH-IN HEIGHT AND LOCATION WITH APS AND ARCHITECT PRIOR TO ROUGH-IN. |
| | DATA NETWORK CONNECTION BOX PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 1/16" DEEP BOX WITH NO RISE SINGLE GANG RING. NETWORK CONNECTION AND CABLING BY APS VENDOR. |



TY-112 FIRST FLOOR PLAN - PHASE II Scale: 1/8" = 1'-0"



PROJECT
 Albuquerque Public Schools
 Rio Grande High School Gymnasium
 ADDRESS
 2330 Arenal Road SW
 Albuquerque, NM
 87105



Mark	Date	Description
	JANUARY 13, 2020	

SHEET TITLE
FIRST FLOOR PLAN - PHASE II

INTRUSION ALARM ZONING

- 1. PHASE 1
 - ZONE A = 1ST FLOOR GYMNASIUM 101
 - ZONE B = 1ST FLOOR NORTH STAIR 1, NORTH CORRIDOR, BOYS LOCKER ROOM AND GIRLS LOCKER ROOM
 - ZONE C = 1ST FLOOR SOUTH STAIR 1, SOUTH CORRIDOR, BOYS ATHLETIC LOCKER ROOM AND GIRLS ATHLETIC LOCKER ROOM
 - ZONE D = 2ND FLOOR NORTH MEZZANINE
 - ZONE E = 2ND FLOOR SOUTH MEZZANINE
- 2. PHASE 2
 - ZONE F = 1ST FLOOR LOBBY, EAST CORRIDOR AND NORTH CORRIDOR
 - ZONE G = WEIGHT ROOM
 - ZONE H = TRAINING ROOM, FOOTBALL COACH ROOM, FOOTBALL STORAGE AND WRESTLING LOCKERS
 - ZONE J = 2ND FLOOR LOBBY
- 3. PHASE 3
 - ZONE K = EXISTING WRESTLING
 - ZONE L = EXISTING AUXILIARY GYMNASIUM

GENERAL SHEET NOTES

- A. ALL CCTV NETWORK CABLING CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. ALL ACCESS CONTROL CONDUIT SHALL BE 3/4" C. UNLESS OTHERWISE NOTED.
- C. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM CORRIDOR WALLS.
- D. COORDINATE ALL ACCESS & SECURITY WITH APS VENDOR.
- E. ALL DATA DEVICE BOXES SHALL BE 4 1/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- F. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- G. INTRUSION ALARM SHALL BE IN COMPLETE 3/4" CONDUIT SYSTEM.

KEYNOTES

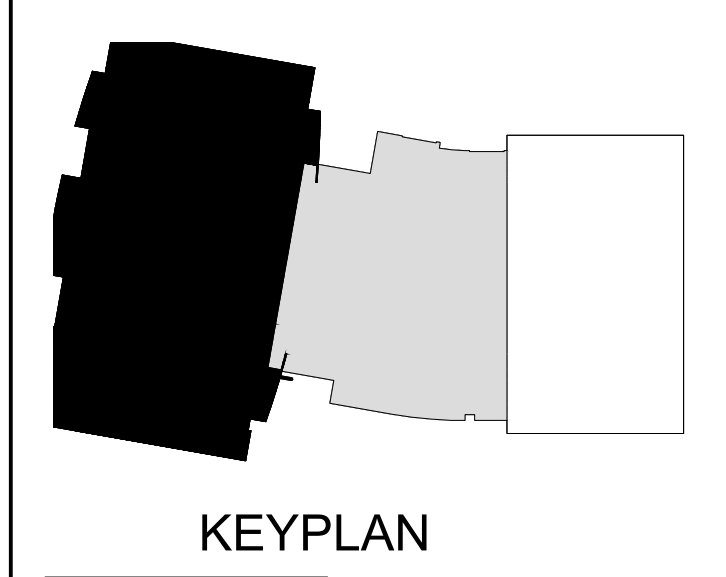
- 1. ACCESS CONTROL PANEL PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC. REFER TO ACCESS CONTROL PANEL DETAIL.
- 2. ACCESS CONTROL POWER SUPPLY BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC. REFER TO POWER SUPPLY PANEL DETAIL.
- 3. INTRUSION ALARM SECURITY TERMINAL CAN 18X18X6 HINGED NEMA 1 BOX. PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC RECEPTACLE INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTRUSION ALARM SECURITY TERMINAL CAN DETAIL.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING TO CABLE TRAY IN 1ST FLOOR PHASE II. REFER TO SHEET TY-111.
- 5. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTRUSION ALARM SECURITY CABLING TO INTRUSION ALARM TERMINAL CAN IN IT 155 IN 1ST FLOOR PHASE II. REFER TO SHEET TY-111.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- 7. ELECTRICAL CONTRACTOR TO PROVIDE J-HOOK PATH FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- 8. TYPICAL 3/4" C. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR INTRUSION ALARM SECURITY & ACCESS CONTROL CABLING.
- 9. ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO CCTV NETWORK CABLING CONNECTION. COORDINATE WITH APS VENDOR AND APS FOR EXACT LOCATION.
- 10. LAY-IN HANG-LID/OPEN TO STRUCTURE CEILING MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CORNER MOUNT MOUNTING DETAIL.
- 11. WALL MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV WALL MOUNTING DETAIL.
- 12. ELECTRICAL CONTRACTOR TO PROVIDE 4 1/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR CCTV NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION. CONNECTION AND CABLING BY APS VENDOR.
- 13. CARD READER PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING MOUNT AT 48" AFF TO TOP OF BOX. REFER TO ACCESS CONTROL DETAIL.
- 14. WALL MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING. MOUNT AT 90" AFF TO TOP OF BOX.
- 15. TYPICAL J-BOX BY ELECTRICAL CONTRACTOR.
- 16. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. STUB DOWN TO CABLE TRAY BELOW.
- 17. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. TO ELEV LOBBY ELEV ABOVE FOR INTRUSION ALARM SECURITY.
- 18. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. TO INTRUSION ALARM TERMINAL CAN IN IT 233C.

DEVICE LEGEND

- | SYMBOL | DESCRIPTION |
|--------|--|
| | ACCESS CONTROL PANEL - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL PANEL DETAIL. |
| | ACCESS CONTROL POWER SUPPLY - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL POWER SUPPLY DETAIL. |
| | INTRUSION ALARM TERMINAL CABINET (18x18x6) HINGED NEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQ. 120V. RECEPTACLE. INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTRUSION ALARM SECURITY TERMINAL CAN DETAIL. |
| | WALL MOUNT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE RING. MOUNT UP 90" A.F.F. TO TOP. ARROW INDICATES DIRECTION. |
| | CEILING MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE RING. |
| | INTRUSION ALARM DOOR CONTACT PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN / RACEWAY. REFER TO ACCESS CONTROL SECURITY DOOR DETAIL FOR ROUGH-IN REQUIREMENTS. |
| | CARD READER PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE RING. MOUNT UP 48" A.F.F. TO TOP BOX. PLACE ADJACENT TO AUTOMATIC DOOR OPERATOR IF APPLICABLE. EXTEND CONDUIT TO 4SQ BOX. LOCATED ABOVE ACCESSIBLE CEILING. SEE ACCESS CONTROL DOOR DETAIL. |
| | EXIT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE RING MOUNTED HORIZONTALLY ABOVE DOOR JAM. REFER TO ACCESS CONTROL DOOR DETAIL FOR ROUGH IN REQUIREMENTS. COORDINATE WITH APS VENDOR. REFER TO ROUGH-IN. |
| | CCTV CAMERA LOCATION PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY. RACEWAY MUST EXTEND TO ACCESSIBLE CEILING SPACE. ADJACENT TO DEVICE. REFER TO CCTV MOUNTING WALL'S. COORDINATE ALL EXTERIOR CAMERA ROUGH-IN HEIGHT AND LOCATION WITH APS AND ARCHITECT PRIOR TO ROUGH-IN. |
| | DATA NETWORK CONNECTION BOX PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 1/16" DEEP BOX WITH NO RISE SINGLE GANG RING. NETWORK CONNECTION AND CABLING BY APS VENDOR. |

PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium

ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



Mark	Date	Description

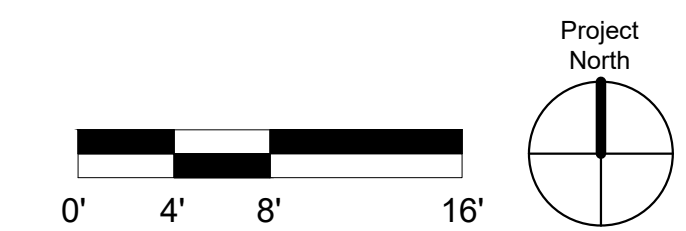
SHEET TITLE
SECOND FLOOR & CLERESTORY PLANS - PHASE II

TY-112
 SHEET OF 99



TY1 CLERESTORY PLAN - PHASE II
 Scale: 1/8" = 1'-0"

TY2 SECOND FLOOR PLAN - PHASE II
 Scale: 1/8" = 1'-0"



INTRUSION ALARM ZONING

- 1. PHASE 1
- ZONE A = 1ST FLOOR GYMNASIUM 101
- ZONE B = 1ST FLOOR NORTH STAIR 1, NORTH CORRIDOR, BOYS LOCKER ROOM AND GIRLS LOCKER ROOM
- ZONE C = 1ST FLOOR SOUTH STAIR 1, SOUTH CORRIDOR, BOYS ATHLETIC LOCKER ROOM AND GIRLS ATHLETIC LOCKER ROOM
- ZONE D = 2ND FLOOR NORTH MEZZANINE
- ZONE E = 2ND FLOOR SOUTH MEZZANINE
- 2. PHASE 2
- ZONE F = 1ST FLOOR LOBBY, EAST CORRIDOR AND NORTH CORRIDOR
- ZONE G = WEIGHT ROOM
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- 3. PHASE 3
- ZONE K = EXISTING WRESTLING
- ZONE L = EXISTING AUXILIARY GYMNASIUM

GENERAL SHEET NOTES

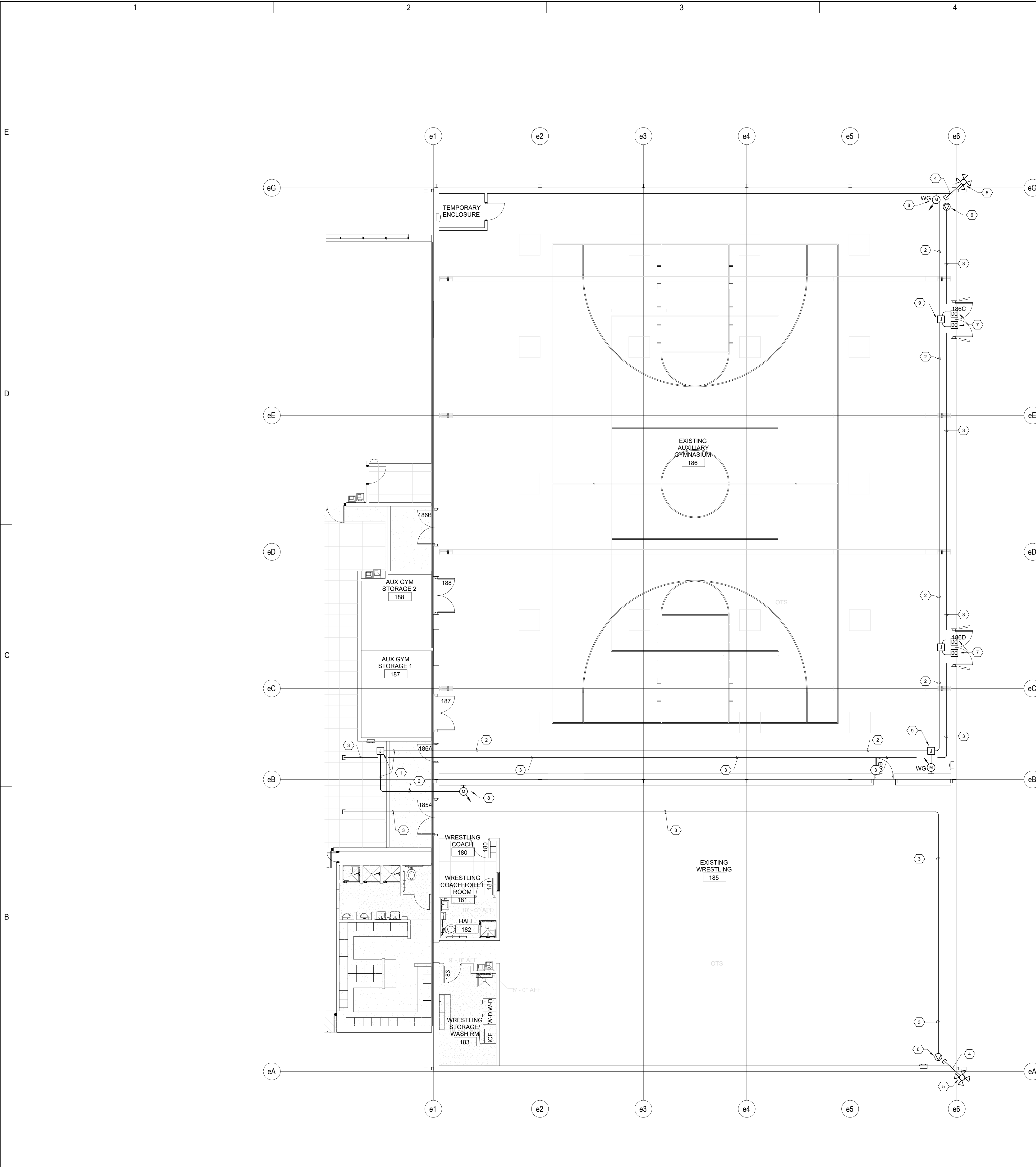
- A. ALL CCTV NETWORK CABLING CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. ALL ACCESS CONTROL CONDUIT SHALL BE 3/4" C. UNLESS OTHERWISE NOTED.
- C. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- D. COORDINATE ALL ACCESS & SECURITY WITH APS VENDOR.
- E. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- F. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- G. INTRUSION ALARM SHALL BE IN COMPLETE 3/4" CONDUIT SYSTEM.

KEYNOTES

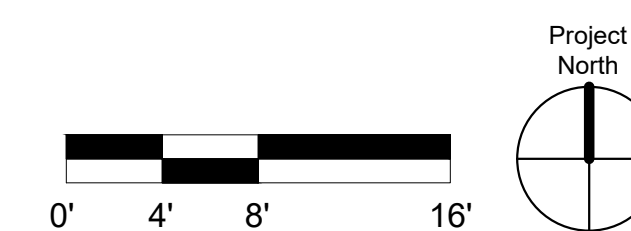
- 1. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. FOR INTRUSION ALARM/SECURITY CABLING TO J-BOX PROVIDED IN PHASE II.
- 2. TYPICAL 3/4 C. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR INTRUSION ALARM/SECURITY & ACCESS CONTROL CABLING.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO ACCESSIBLE CEILING SPACE / CABLE TRAY FOR CCTV NETWORK CABLING. COORDINATE WITH APS TECHNOLOGY DEPARTMENT AND APS VENDOR FOR CORRECT PATH WAY.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE 1" C. RACEWAY TO CCTV NETWORK CABLING CONNECTION. COORDINATE WITH APS AND APS VENDOR FOR EXACT LOCATION.
- 5. CORNER MOUNTED CCTV CAMERA PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY FOR CCTV CAMERA CABLING. REFER TO CCTV CORNER MOUNT MOUNTING DETAIL.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR CCTV NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION. CONNECTION AND CABLING BY APS VENDOR.
- 7. INTRUSION ALARM DOOR CONTACT PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" RACEWAY FOR INTRUSION ALARM CABLING. REFER TO SECURITY DOOR DETAILS.
- 8. WALL MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4 SQUARE DEEP BOX WITH SINGLE GANG RING. MOUNT AT 90° AFF TO TOP OF BOX.
- 9. TYPICAL J-BOX BY ELECTRICAL CONTRACTOR.

DEVICE LEGEND

SYMBOL	DESCRIPTION
ACDP	ACCESS CONTROL PANEL - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL PANEL DETAIL.
ACPS	ACCESS CONTROL POWER SUPPLY - PROVIDED BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. REFER TO ACCESS CONTROL POWER SUPPLY DETAIL.
IATC	INTRUSION ALARM TERMINAL CABINET (18x18x6) HINGED NEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQ. 120V. RECEPTACLE. INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTRUSION ALARM/SECURITY TERMINAL CAN DETAIL.
MC	WALL MOUNT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING. MOUNT UP 90° A.F.F. TO TOP. ARROW INDICATES DIRECTION.
CC	CEILING MOUNTED MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING.
DA	INTRUSION ALARM DOOR CONTACT PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN / RACEWAY. REFER TO ACCESS CONTROL/SECURITY DOOR DETAIL FOR ROUGH-IN REQUIREMENTS.
DR	CARD READER PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING MOUNT UP 48" A.F.F. TO TOP BOX. FLANGE ADJACENT TO AUTOMATIC DOOR OPENER IF APPLICABLE. EXTEND CONDUIT TO 4SQ BOX. LOCATED ABOVE ACCESSIBLE CEILING. SEE ACCESS CONTROL DOOR DETAIL.
EM	EXIT MOTION DETECTOR PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4" SQ. DEEP BOX W/ SINGLE GANG RING MOUNTED HORIZONTALLY ABOVE DOOR JAM. REFER TO ACCESS CONTROL DOOR DETAIL FOR ROUGH IN REQUIREMENTS. COORDINATE WITH APS VENDOR. PRIOR TO ROUGH-IN.
CCV	CCTV CAMERA LOCATION PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAY. RACEWAY MUST EXTEND TO ACCESSIBLE CEILING SPACE. ADJACENT TO DEVICE. REFER TO CCTV MOUNTING DETAILS. COORDINATE ALL EXTERIOR CAMERA ROUGH-IN HEIGHT AND LOCATION WITH APS AND ARCHITECT PRIOR TO ROUGH-IN.
DN	DATA NETWORK CONNECTION BOX PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 4-11/16" DEEP BOX WITH NO RISE SINGLE GANG RING. NETWORK CONNECTION AND CABLING BY APS VENDOR.



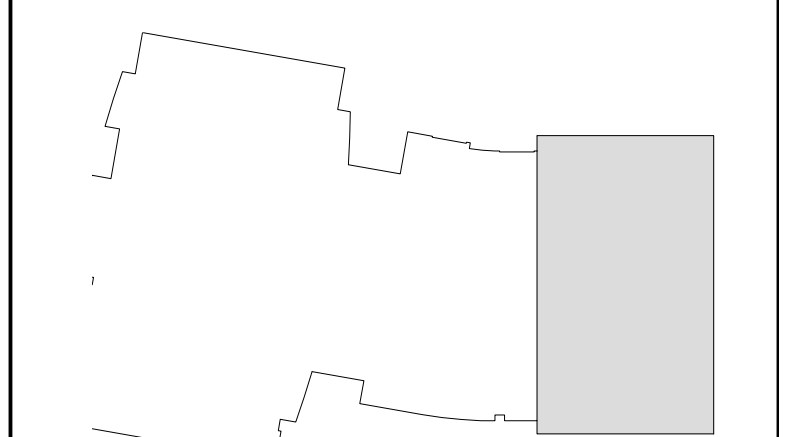
TY3 FIRST FLOOR PLAN - PHASE III
 Scale: 1/8" = 1'-0"



PROJECT

Albuquerque Public Schools
 Rio Grande High School Gymnasium

ADDRESS
 2330 Arenal Road SW
 Albuquerque, NM
 87105



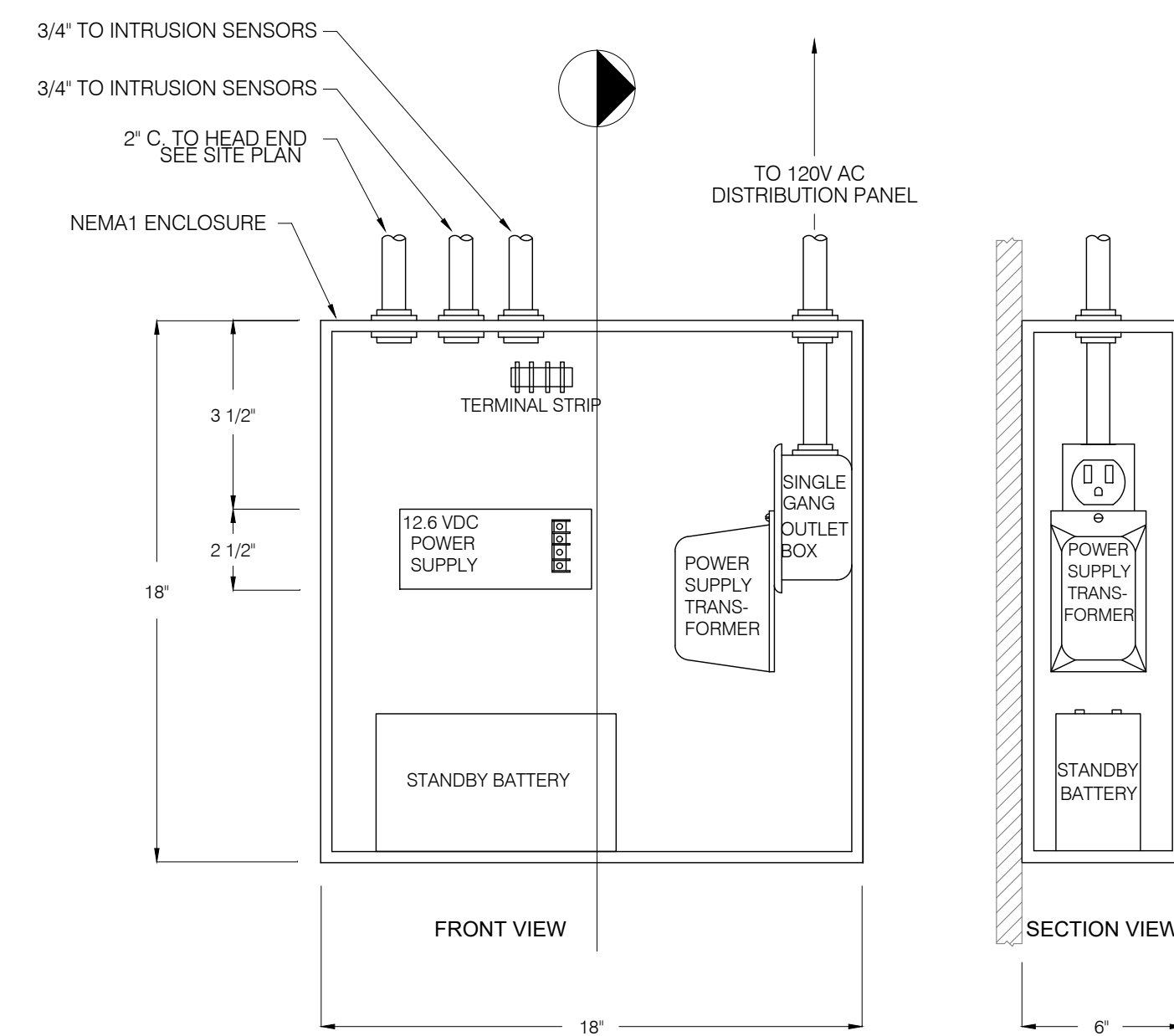
KEYPLAN

Mark	Date	Description
	JANUARY 13, 2020	
Drawn By		S&S
Checked By		S&S

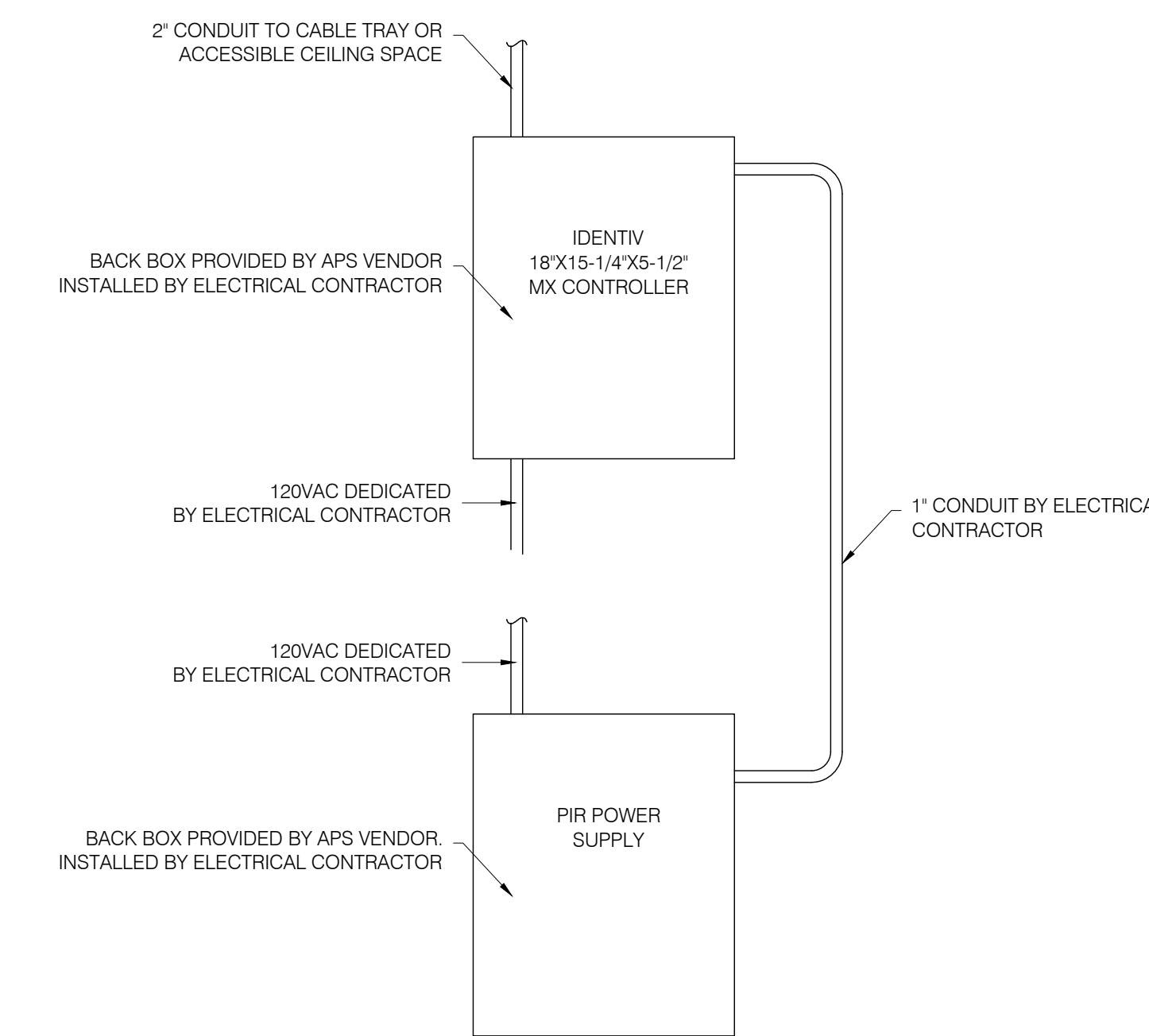
SHEET TITLE
FIRST FLOOR PLAN - PHASE III

GENERAL SHEET NOTES

- A. ALL CCTV NETWORK CABLING CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. ALL ACCESS CONTROL CONDUIT SHALL BE 3/4" C. UNLESS OTHERWISE NOTED.
- C. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- D. COORDINATE ALL ACCESS & SECURITY WITH APS VENDOR.
- E. ALL DATA DEVICE BOXES SHALL BE 4 1/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- F. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- G. INTRUSION ALARM SHALL BE IN COMPLETE 3/4" CONDUIT SYSTEM.



INTRUSION ALARM TERMINAL BOX DETAIL



ACCESS CONTROL HEAD-END EQUIPMENT

PROJECT

Albuquerque Public Schools
Rio Grande High School Gymnasium

ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105

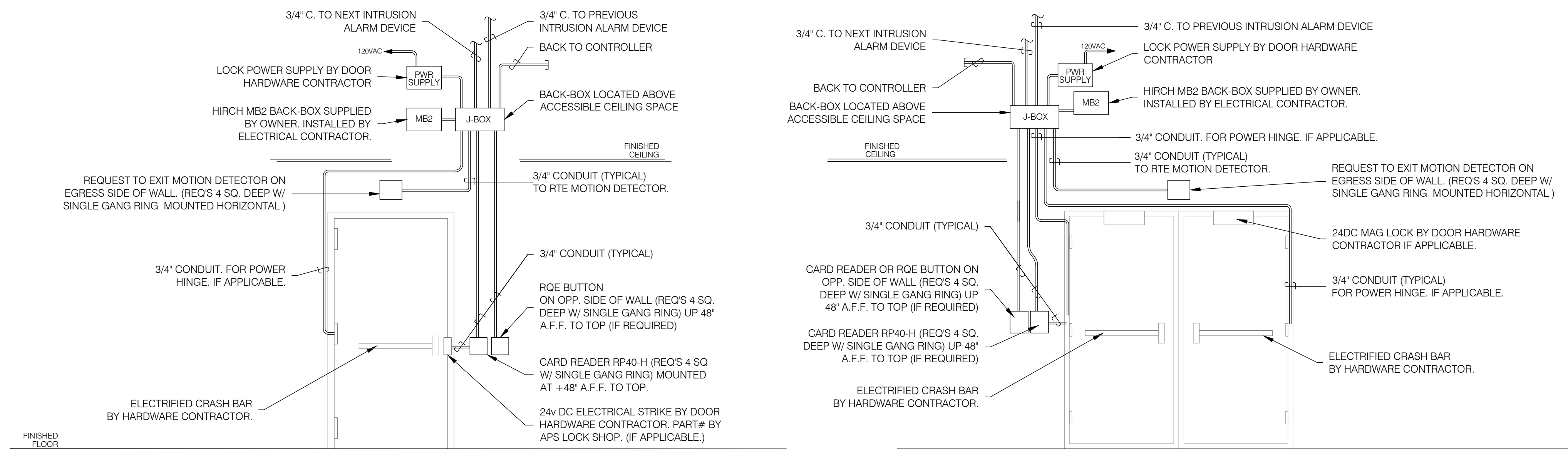
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SHEET TITLE
**EQUIPMENT
ELEVATION DETAILS**

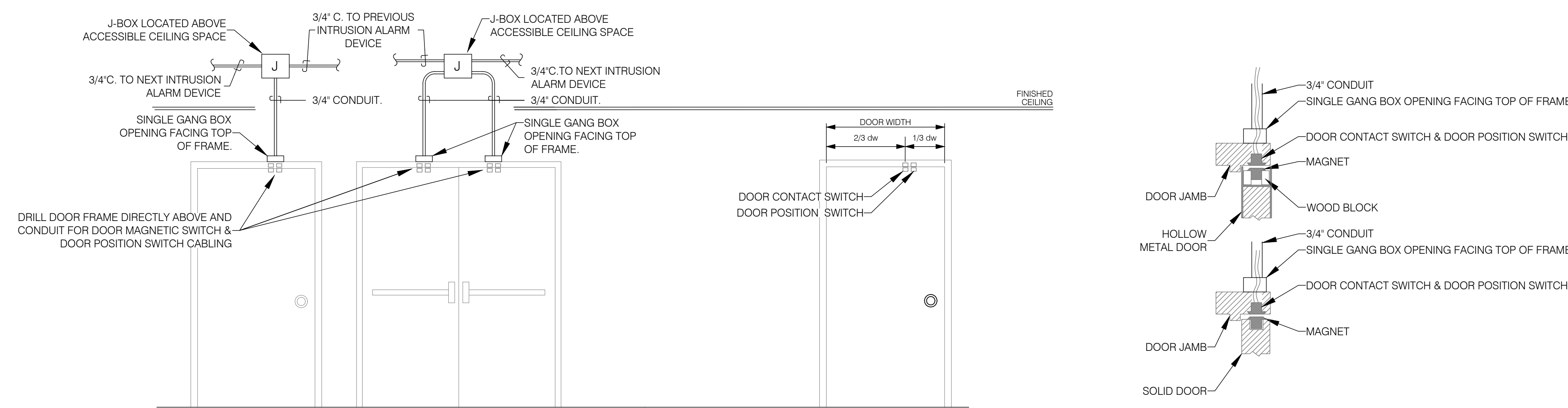
SHEET **TY-300**
OF

GENERAL SHEET NOTES

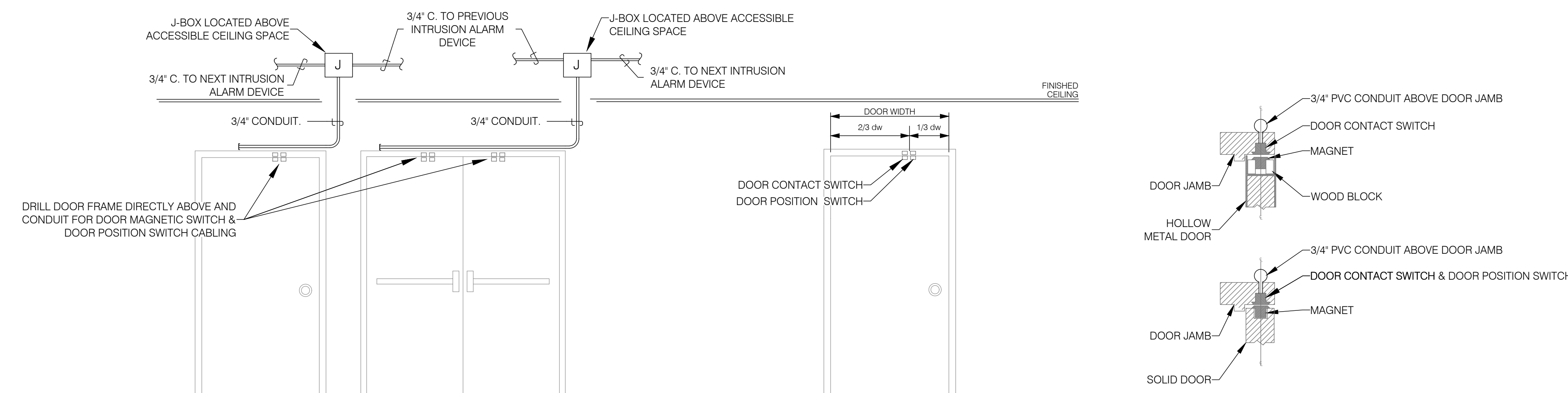
- A. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- B. INTRUSION ALARM SHALL BE IN COMPLETE 3/4" CONDUIT SYSTEM.



1 ACCESS CONTROL TYPICAL ROUGH-IN DETAIL
NOT TO SCALE



2 ACCESS CONTROL DOOR CONTACT & DOOR POSITION SWITCH ROUGH-IN DETAIL OPTION 1
NOT TO SCALE



3 ACCESS CONTROL DOOR CONTACT & DOOR POSITION SWITCH ROUGH-IN DETAIL OPTION 2
NOT TO SCALE

PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium

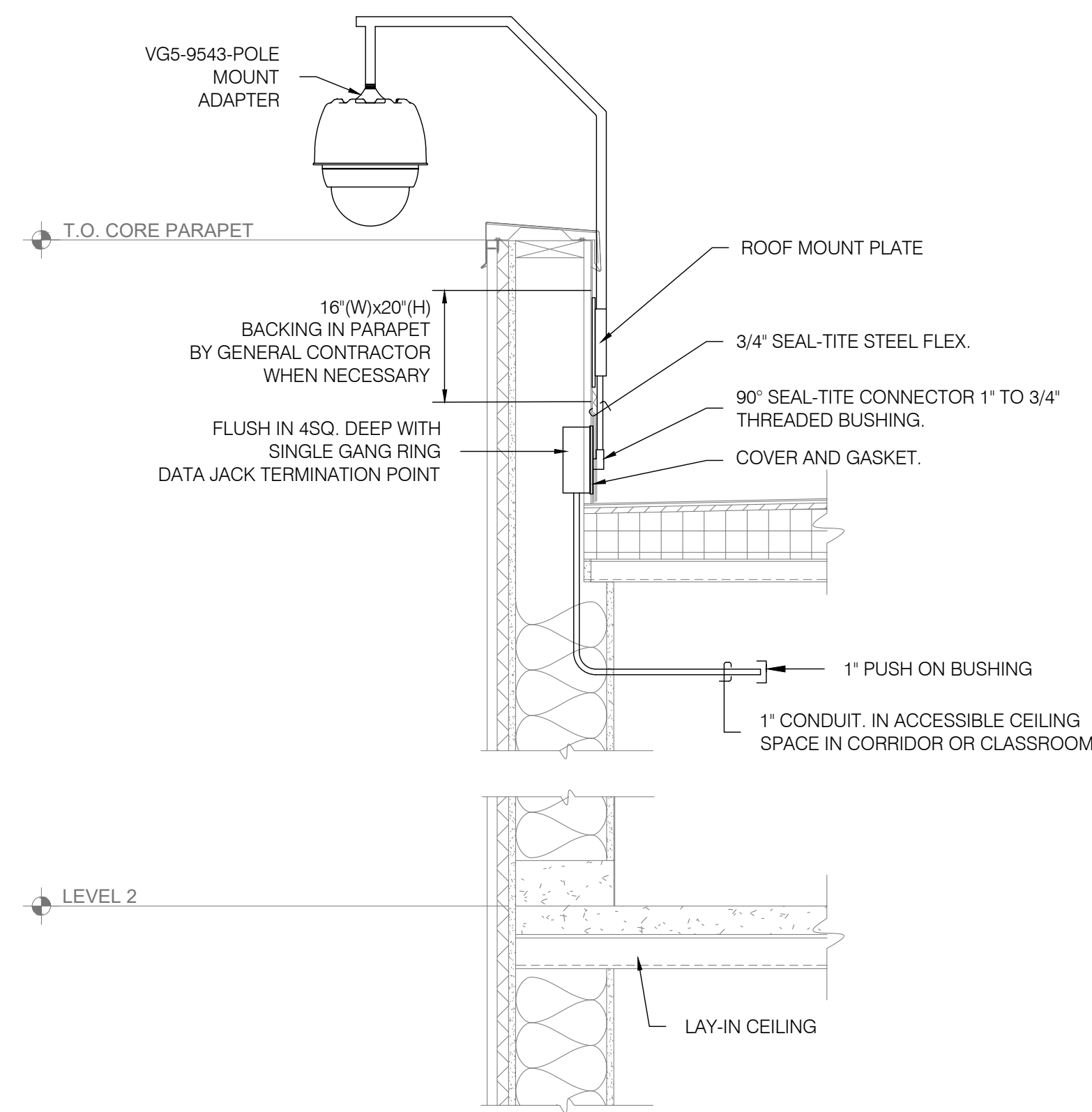
ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105

Mark	Date	Description
	JANUARY 13, 2020	

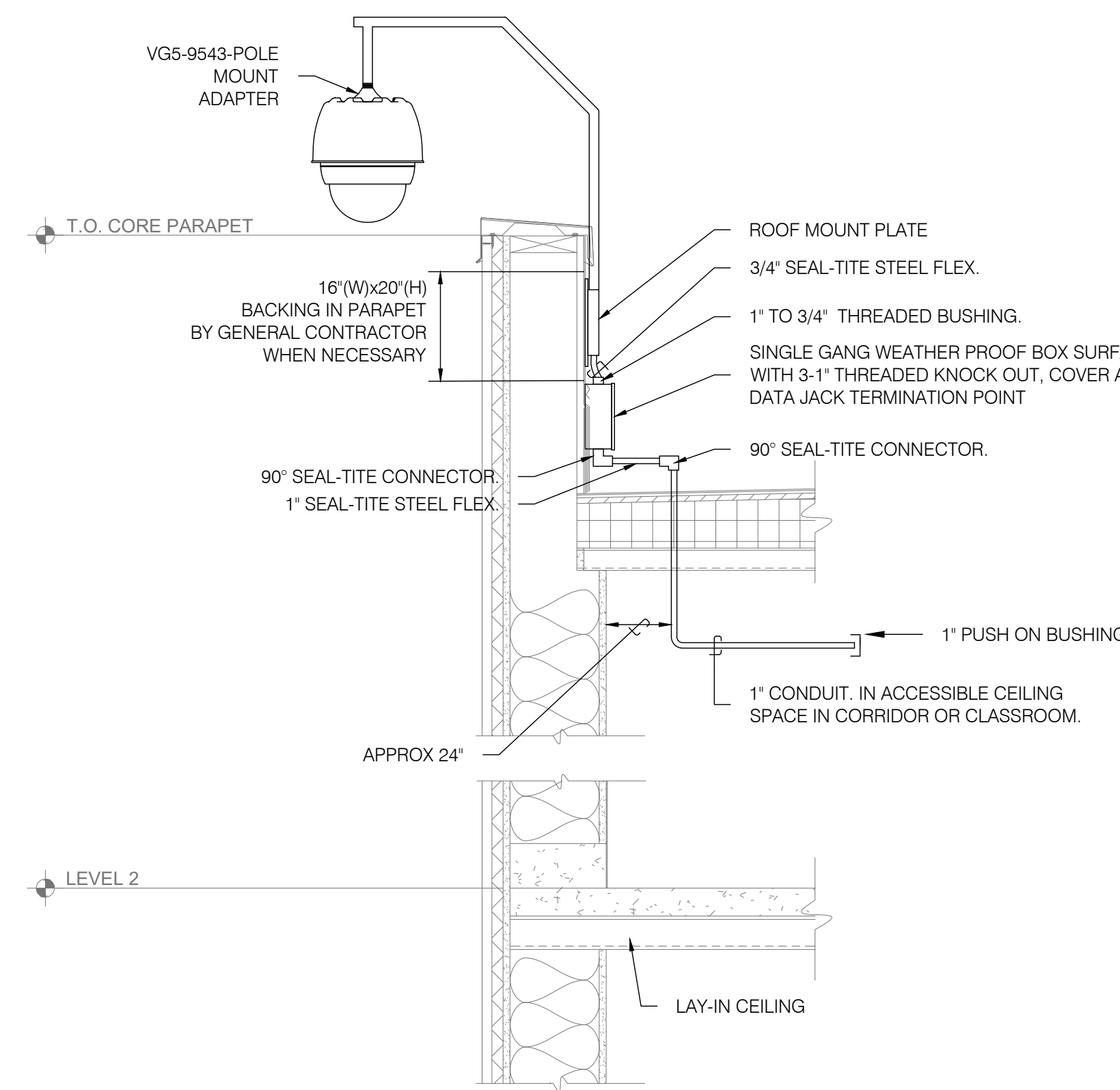
SHEET TITLE
ACCESS CONTROL DOOR ROUGH-IN DETAILS
TY-500
SHEET OF

GENERAL SHEET NOTES

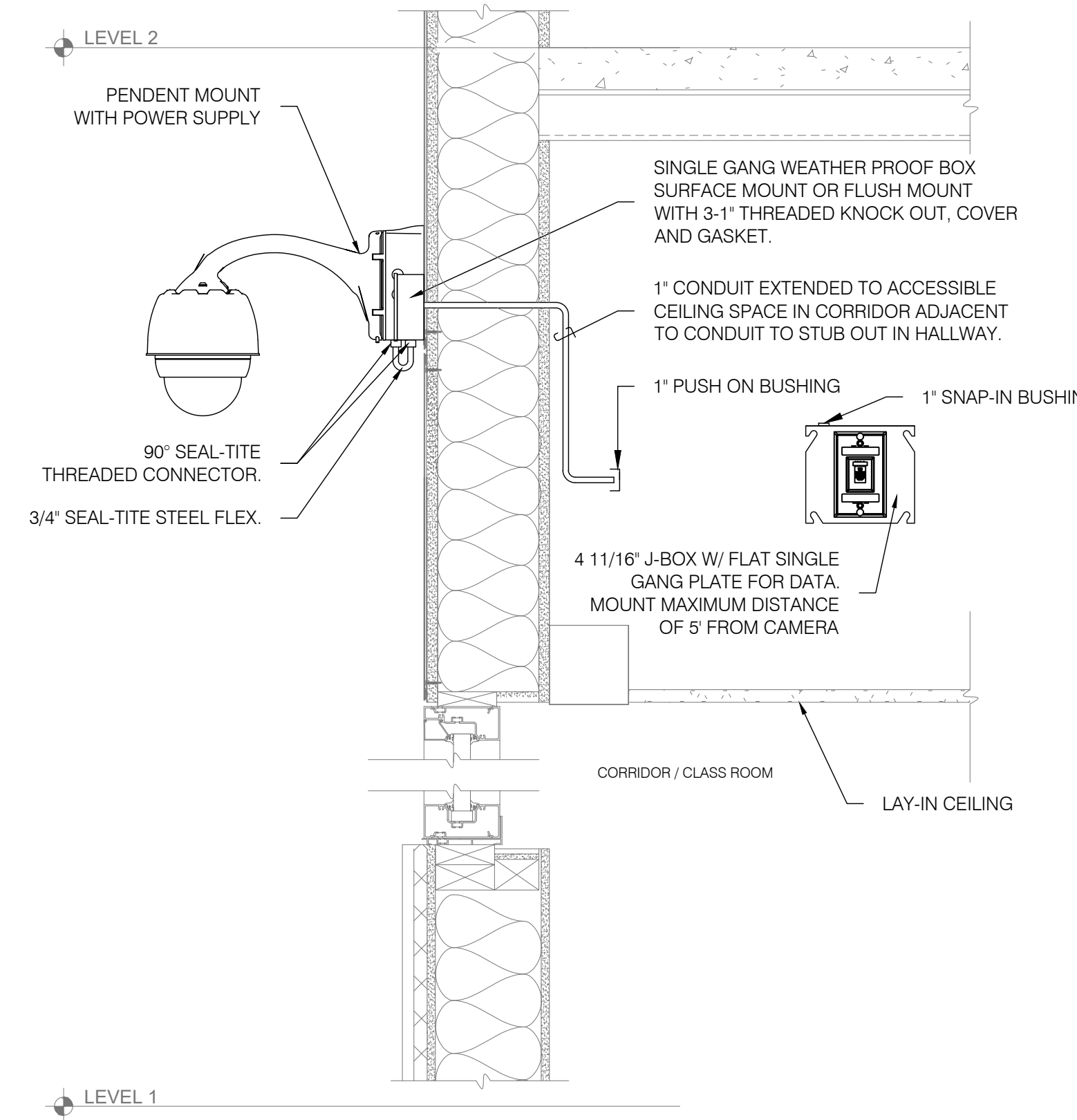
- A. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- B. CCTV SHALL BE IN COMPLETE 1" CONDUIT SYSTEM.



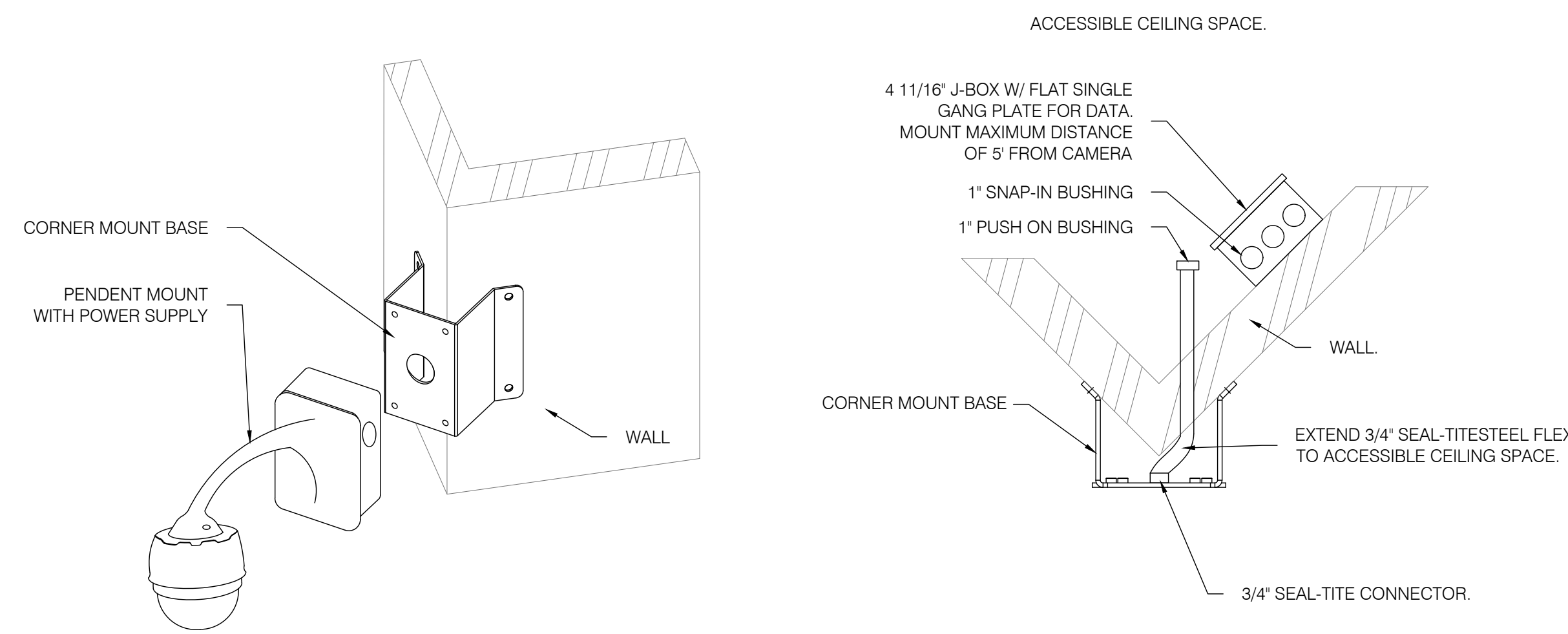
1 EXTERIOR CCTV CAMERA PARAPET MOUNTED OPTION 1
NOT TO SCALE



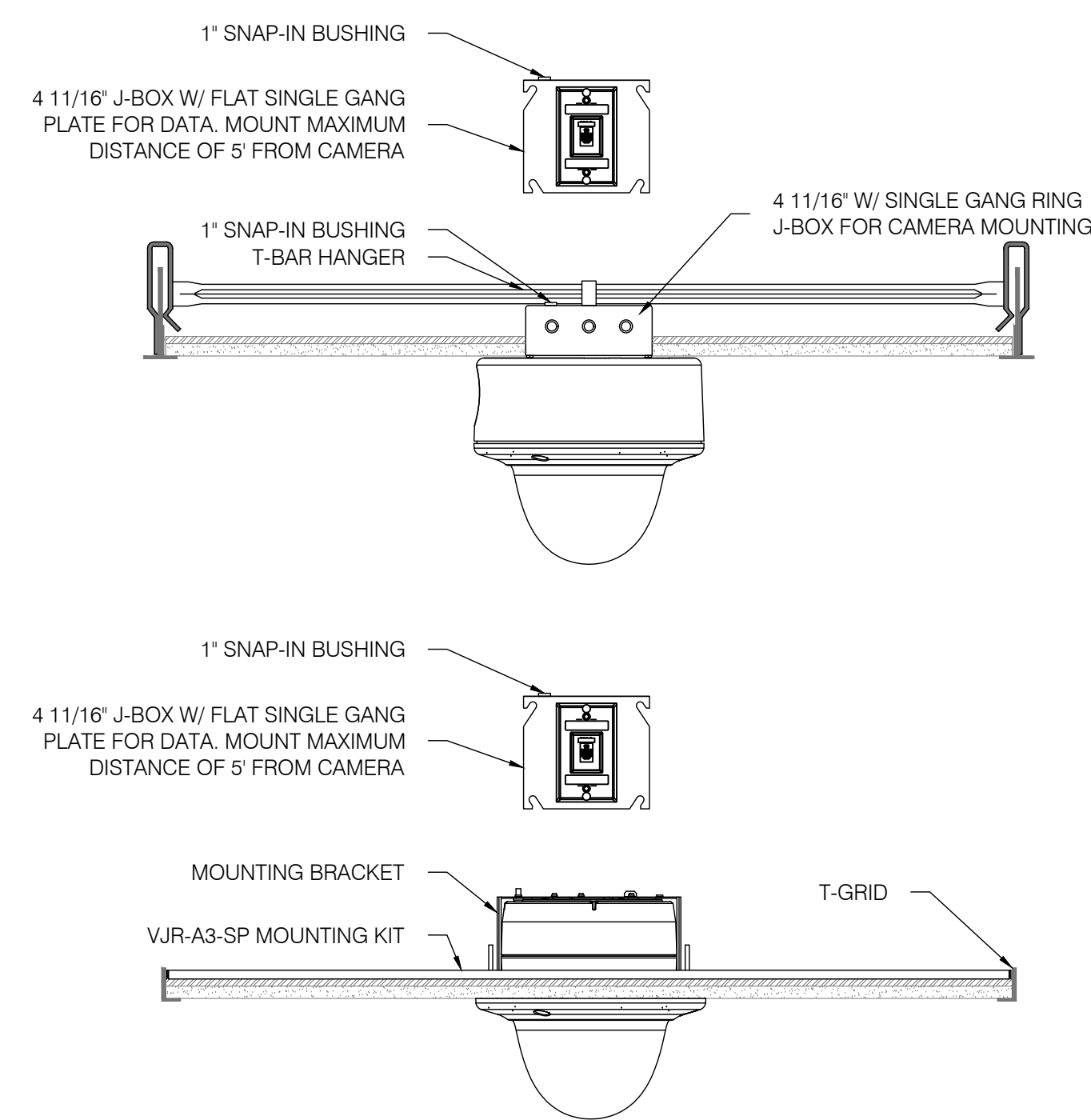
2 EXTERIOR CCTV CAMERA PARAPET MOUNTED OPTION 2
NOT TO SCALE



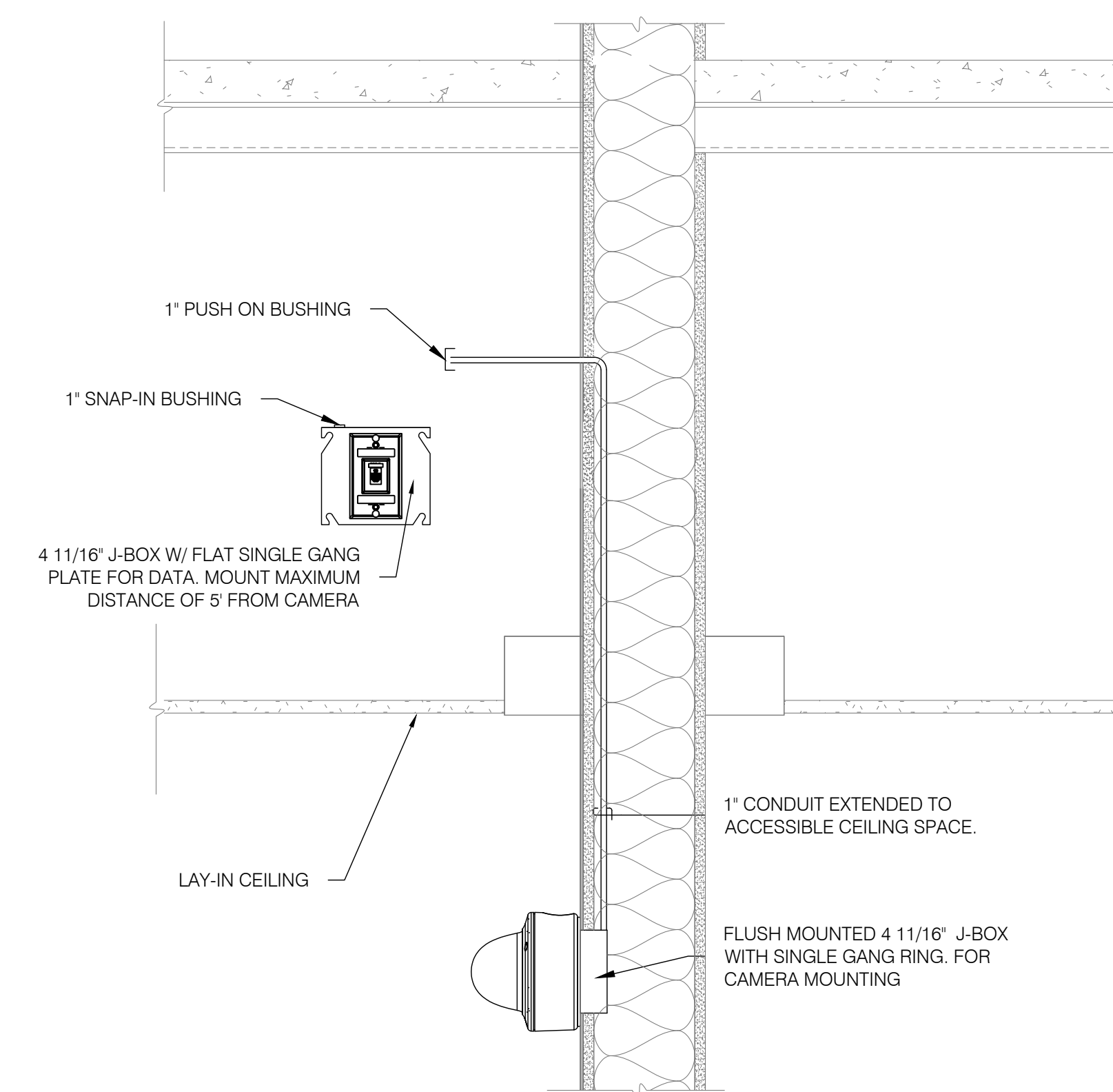
3 EXTERIOR CCTV CAMERA WALL MOUNTED
NOT TO SCALE



4 EXTERIOR CCTV CAMERA CORNER MOUNTED
NOT TO SCALE



5 INTERIOR CCTV CAMERA SURFACE & RECESSED CEILING MOUNTED
NOT TO SCALE



6 INTERIOR CCTV CAMERA WALL MOUNTED
NOT TO SCALE

PROJECT
 Albuquerque Public Schools
 Rio Grande High School Gymnasium
 ADDRESS
 2330 Arenal Road SW
 Albuquerque, NM
 87105

Mark	Date	Description
	JANUARY 13, 2020	

SHEET TITLE
**CCTV CAMERA
 ROUGH-IN DETAILS**

GENERAL SHEET NOTES

- A. ALL CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- C. COORDINATE ALL INTERCOM WITH APS VENDOR.
- D. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- E. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.

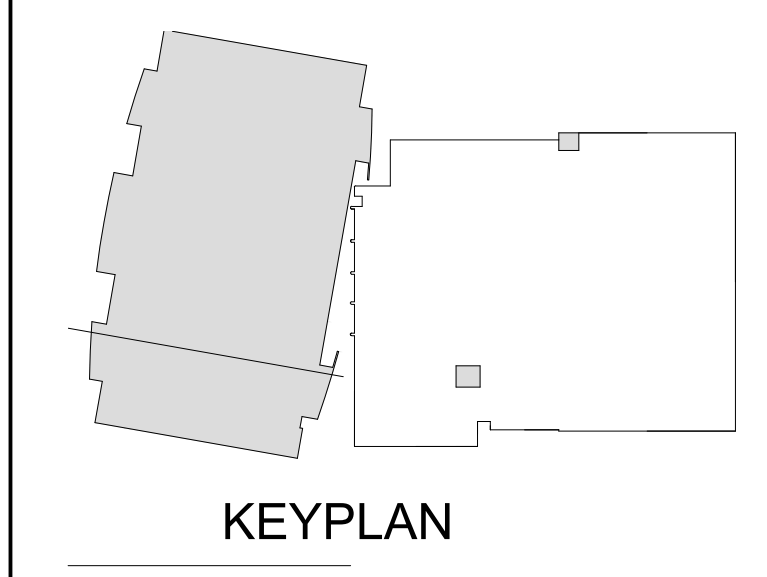
KEYNOTES

1. CEILING MOUNTED SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB 3/4" C. TO NEAREST ACCESSIBLE CEILING SPACE OR TO CABLE TRAY.
2. WALL MOUNTED INTERCOM SPEAKER PROVIDED AND INSTALLED BY APS VENDOR. REQUIRES SPECIAL BACK BOX AND WIRE GUARD BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR.
3. WALL MOUNTED WEATHER PROOF INTERCOM SPEAKER PROVIDED AND INSTALLED BY APS VENDOR. REQUIRES SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR.
4. WALL MOUNTED SPEAKER CLOCK COMBO PROVIDED BY APS VENDOR. REQUIRES SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO CLOCK.
5. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTERCOM CABLING.
6. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. FOR INTERCOM / PAGING SYSTEM CABLING. STUB UP TO ACCESSIBLE CEILING SPACE AS SHOWN.
7. ELECTRICAL CONTRACTOR TO PROVIDE J-HOOK PATH FOR INTERCOM CABLING.
8. INTERCOM CONTROL PANEL (ICCP) AND INTERCOM PATCH PANEL (ICPP) PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC REQUIREMENTS PER APS NETWORK SPECIFICATIONS.
9. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTERCOM CABLING FROM IT 103A TO 2ND FLOOR NORTH MEZZANINE BLEACHERS 204. REFER TO SHEET TI-103.
10. WALL MOUNTED BELL PROVIDED BY APS VENDOR. REQUIRES SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR.
11. INTERCOM TERMINAL CAN 18X18X6 HINGED NEMA 1 BOX PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC RECEPTACLE INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTERCOM TERMINAL CAN DETAIL.
12. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTERCOM CABLING FROM IT 103A TO 1ST FLOOR IT 155 PHASE II.
13. ELECTRICAL CONTRACTOR TO CAP OFF CONDUIT TO PREVENT MOISTURE AND CONTINUE TO EXTEND CONDUIT DURING PHASE II.
14. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. TO IN GROUND 3/8"X3/8" HANDHOLES FOR INTERCOM CABLING.
15. AUDIOVISUAL EQUIPMENT RACK PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT. COORDINATE WITH APS TECHNOLOGY AND APS VENDOR FOR EXACT LOCATION.
16. AUDIOVISUAL MICROPHONE PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 3 GANG DEEP BOX MOUNTED AT 18" AFF AND 1" RACEWAY STUB NEXT TO AUDIOVISUAL EQUIPMENT RACK.
17. ELECTRICAL CONTRACTOR TO PROVIDE 1-1/2" RACEWAY NEAR AUDIOVISUAL EQUIPMENT RACK IN IT 103A FOR AUDIOVISUAL CABLING ONLY.
18. ELECTRICAL CONTRACTOR TO PROVIDE 24"X24"X6" ENCLOSURE TO SHARE DATA CABLING CONNECTIONS WITH AUDIOVISUAL CABLING / CONNECTIONS FOR SCORERS TABLE.
19. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR INTERCOM NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION. CONNECTION AND CABLING BY APS VENDOR.

DEVICE LEGEND

- INTERCOM CONTROL PANEL - PROVIDED AND INSTALLED BY APS VENDOR.
- INTERCOM PATCH PANEL - PROVIDED AND INSTALLED BY APS VENDOR.
- INTERCOM TERMINAL CABINET (18X18X6) HINGED NEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC RECEPTACLE INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER.
- HARD LID CEILING SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB 3/4" C. TO NEAREST ACCESSIBLE CEILING SPACE.
- 2X2 LAY-IN CEILING MOUNT SPEAKER PROVIDED AND INSTALLED BY APS VENDOR.
- CALL SWITCH PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S 4" SQ. DEEP BOX W/ SINGLE GANG RING. MOUNT UP 48" A.F.F. TO TOP. STUB UP 3/4" C. IN SAME ROOM IN ACCESSIBLE CEILING WITH PUSH-ON BUSHING BY ELECTRICAL CONTRACTOR.
- WEATHER PROOF WALL MOUNT SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB UP 3/4" C. TO ACCESSIBLE CEILING WITH PUSH-ON BUSHING. COORDINATE HEIGHT WITH ARCHITECT. WP DENOTES WEATHER PROOF DEVICE. WIG DENOTES WIRE GUARD.
- WEATHER PROOF WALL MOUNT COMMUNICATION BELL PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB UP 3/4" C. TO ACCESSIBLE CEILING WITH PUSH-ON BUSHING. COORDINATE HEIGHT WITH ARCHITECT. WP DENOTES WEATHER PROOF DEVICE.
- SPEAKER CLOCK COMBO PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR.

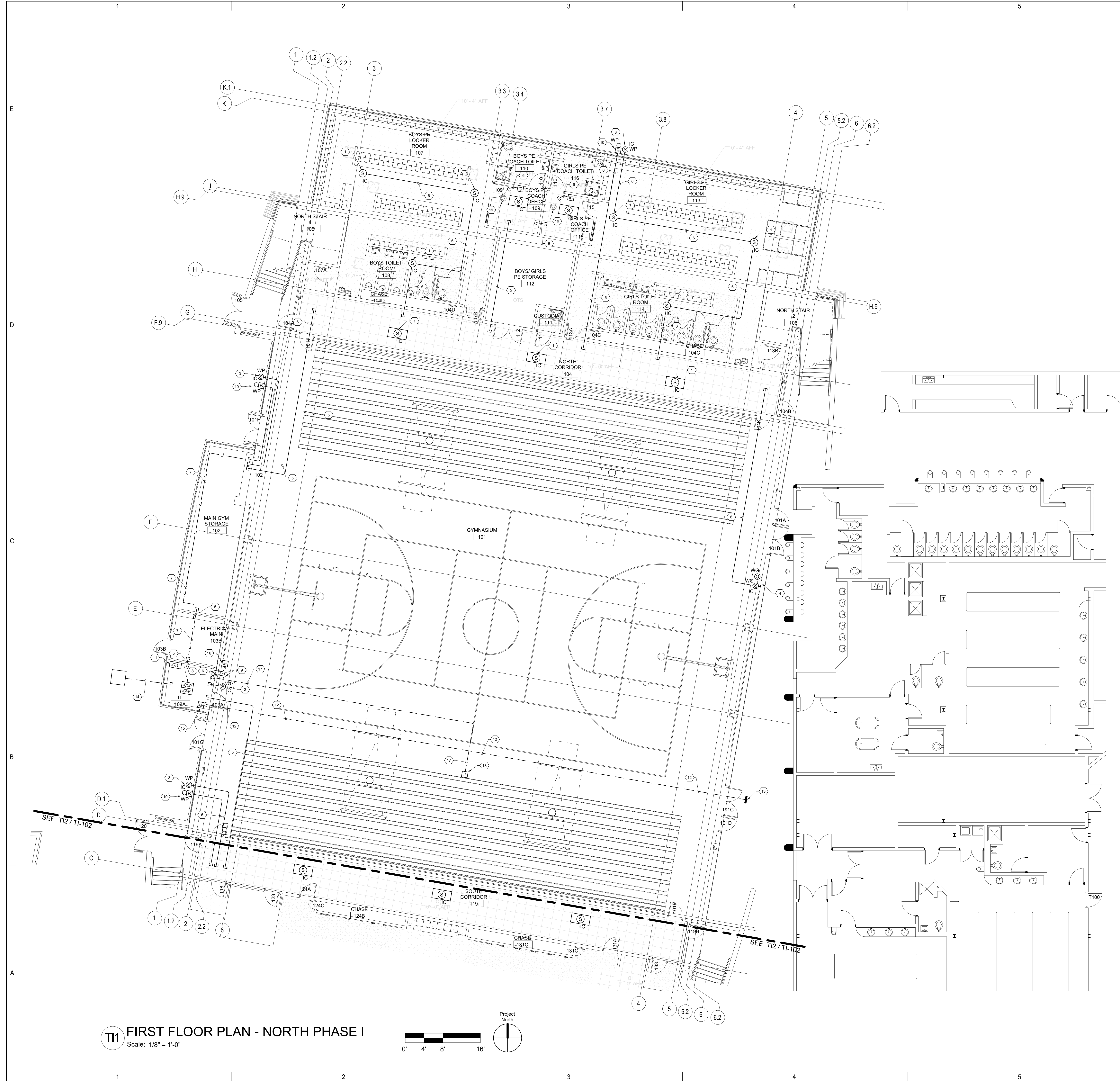
PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



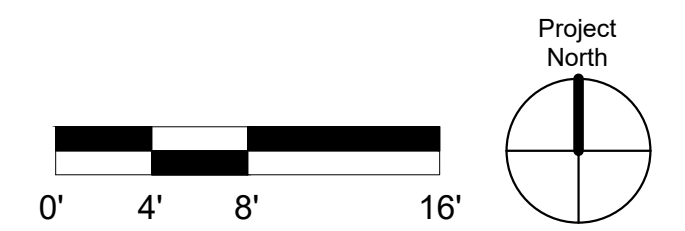
Mark	Date	Description
	JANUARY 13, 2020	
		Project Number
		Drawn By S&S
		Checked By S&S

SHEET TITLE
FIRST FLOOR PLAN - NORTH PHASE I

TI-101
 SHEET OF



T11 FIRST FLOOR PLAN - NORTH PHASE I
 Scale: 1/8" = 1'-0"



GENERAL SHEET NOTES

- A. ALL CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- C. COORDINATE ALL INTERCOM WITH APS VENDOR.
- D. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- E. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.

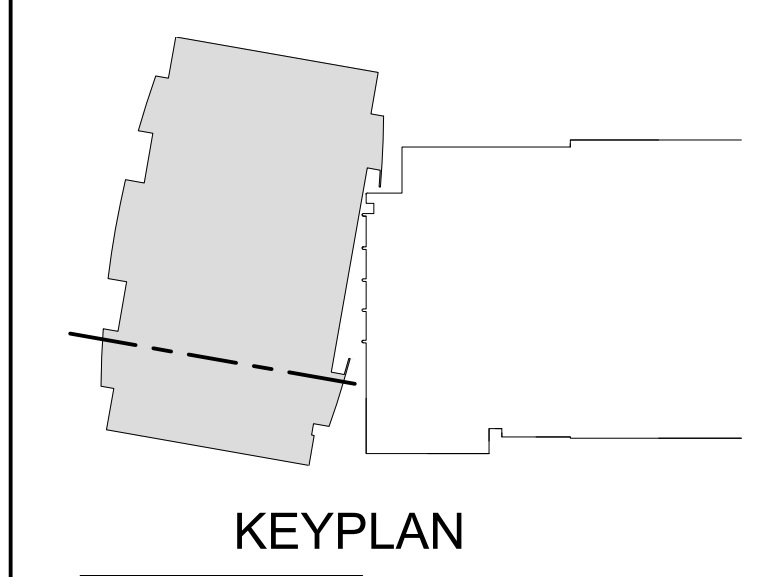
KEYNOTES

- 1. CEILING MOUNTED SPEAKER. PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB 3/4" C. TO NEAREST ACCESSIBLE CEILING SPACE OR TO CABLE TRAY.
- 2. WALL MOUNTED WEATHER PROOF INTERCOM SPEAKERS BY APS VENDOR. REQUIRES SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTERCOM CABLING.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. FOR INTERCOM / PAGING SYSTEM CABLING. STUB UP TO ACCESSIBLE CEILING SPACE AS SHOWN.
- 5. WALL MOUNTED BELL. PROVIDED BY APS VENDOR. REQUIRES SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR INTERCOM NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION. CONNECTION AND CABLING BY APS VENDOR.

DEVICE LEGEND

- INTERCOM CONTROL PANEL - PROVIDED AND INSTALLED BY APS VENDOR.
- INTERCOM PATCH PANEL - PROVIDED AND INSTALLED BY APS VENDOR.
- INTERCOM TERMINAL CABINET (18x18x6) HINGED NEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. RECEPTACLE INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER.
- HARD LID CEILING SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB 3/4" C. TO NEAREST ACCESSIBLE CEILING SPACE.
- 2X2 LAY-IN CEILING MOUNT SPEAKER PROVIDED AND INSTALLED BY APS VENDOR.
- CALL SWITCH PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S 4" SQ. DEEP BOX W/ SINGLE GANG. MOUNT UP 48" A.F.F. TO TOP. STUB UP 3/4" C. IN SAME ROOM IN ACCESSIBLE CEILING WITH PUSH-ON BUSHING BY ELECTRICAL CONTRACTOR.
- WEATHER PROOF WALL MOUNT SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB UP 3/4" C. TO ACCESSIBLE CEILING WITH PUSH-ON BUSHING. COORDINATE HEIGHT WITH ARCHITECT. WP DENOTES WEATHER PROOF DEVICE. WG DENOTES WIRE GUARD.
- WEATHER PROOF WALL MOUNT COMMUNICATION BELL PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB UP 3/4" C. TO ACCESSIBLE CEILING WITH PUSH-ON BUSHING. COORDINATE HEIGHT WITH ARCHITECT. WP DENOTES WEATHER PROOF DEVICE.
- SPEAKER CLOCK COMBO PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR.

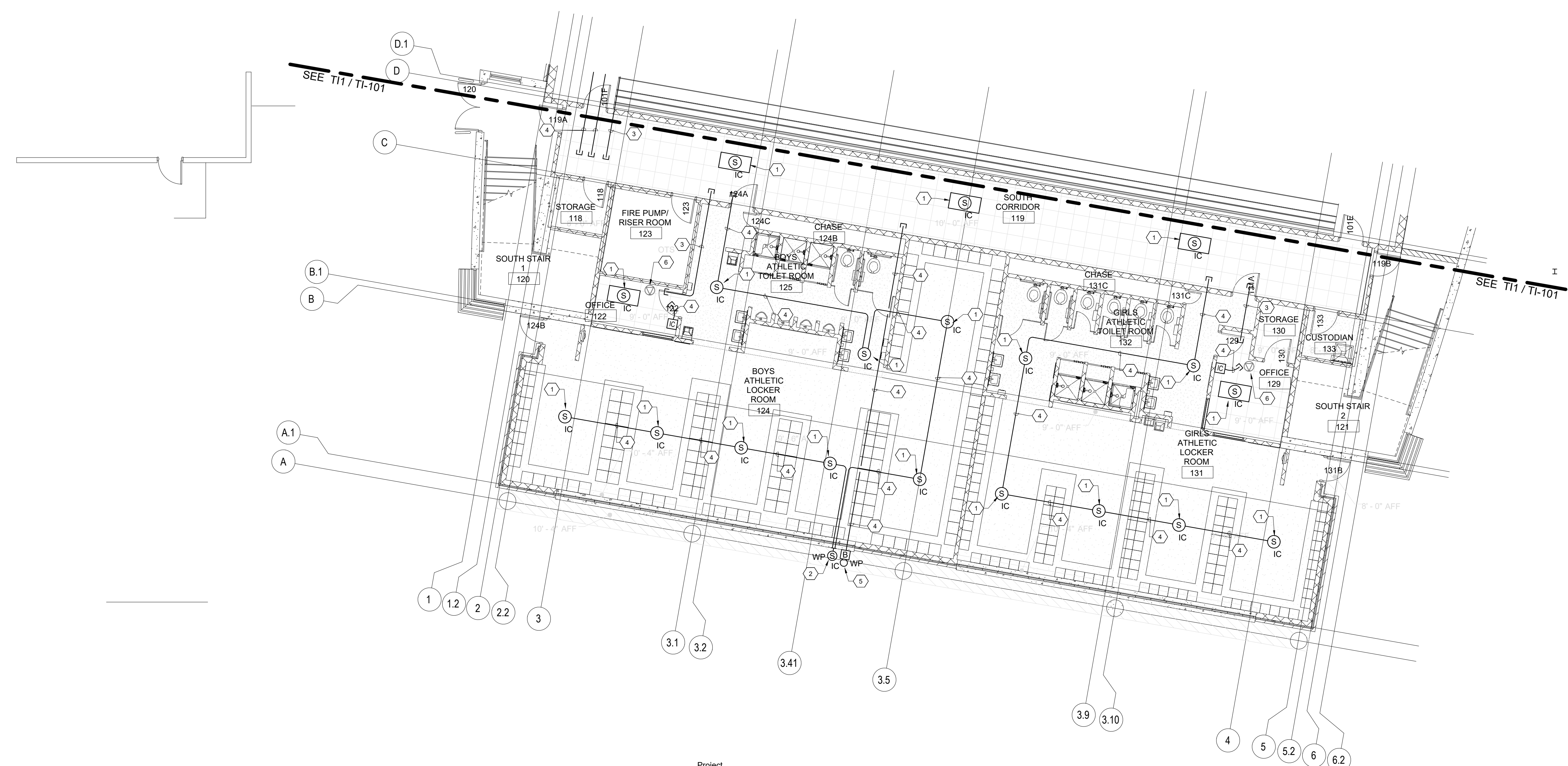
PROJECT
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Rio Grande High School Gymnasium
 ADDRESS
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87105



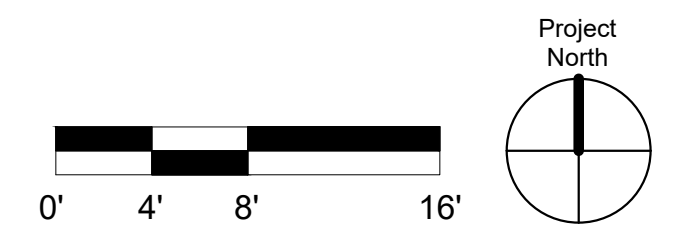
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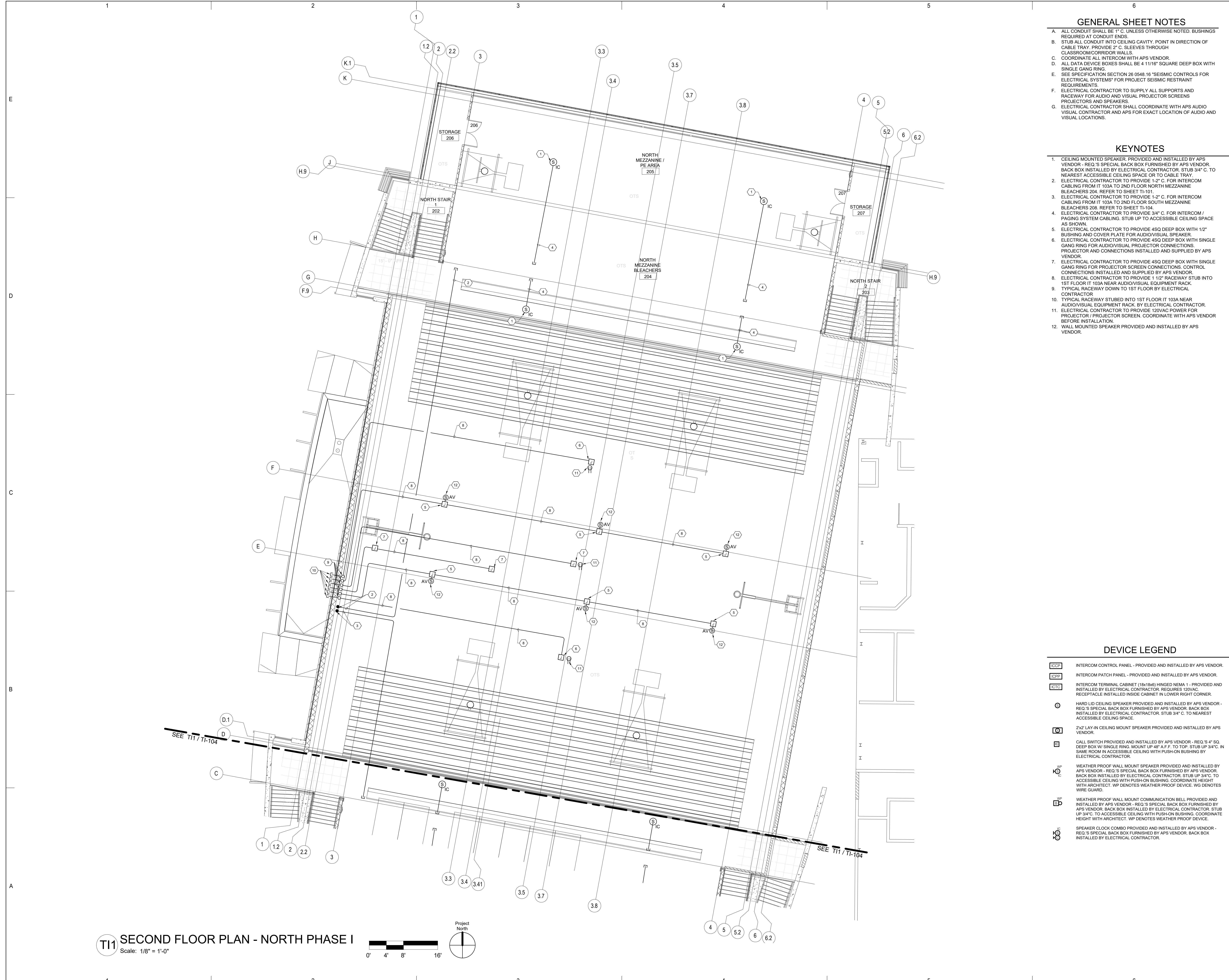
SHEET TITLE
FIRST FLOOR PLAN - SOUTH PHASE I

TI-102
 SHEET OF



T11 FIRST FLOOR PLAN - SOUTH PHASE I
 Scale: 1/8" = 1'-0"



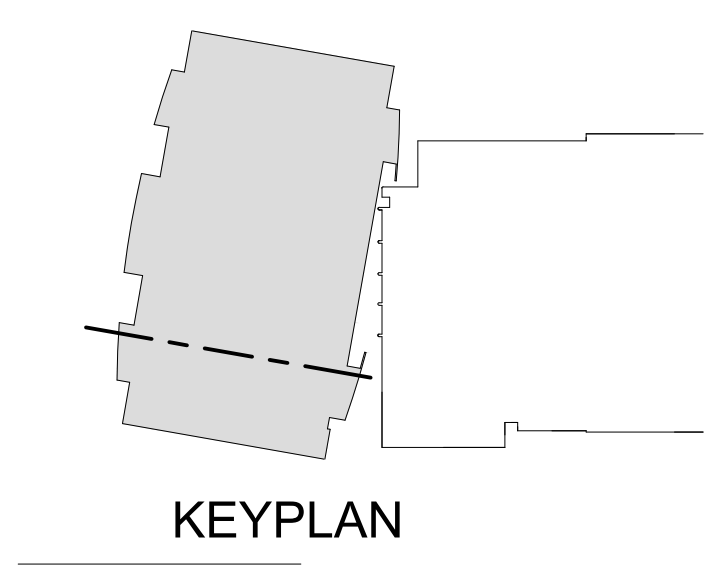


- ### GENERAL SHEET NOTES
- A. ALL CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
 - B. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
 - C. COORDINATE ALL INTERCOM WITH APS VENDOR.
 - D. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
 - E. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
 - F. ELECTRICAL CONTRACTOR TO SUPPLY ALL SUPPORTS AND RACEWAY FOR AUDIO AND VISUAL PROJECTOR SCREENS, PROJECTORS AND SPEAKERS.
 - G. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH APS AUDIO VISUAL CONTRACTOR AND APS FOR EXACT LOCATION OF AUDIO AND VISUAL LOCATIONS.

- ### KEYNOTES
1. CEILING MOUNTED SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB 3/4" C. TO NEAREST ACCESSIBLE CEILING SPACE OR TO CABLE TRAY.
 2. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTERCOM CABLING FROM IT 103A TO 2ND FLOOR NORTH MEZZANINE BLEACHERS 204. REFER TO SHEET TI-101.
 3. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTERCOM CABLING FROM IT 103A TO 2ND FLOOR SOUTH MEZZANINE BLEACHERS 208. REFER TO SHEET TI-104.
 4. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. FOR INTERCOM / PAGING SYSTEM CABLING. STUB UP TO ACCESSIBLE CEILING SPACE AS SHOWN.
 5. ELECTRICAL CONTRACTOR TO PROVIDE 4SQ DEEP BOX WITH 1/2" BUSHING AND COVER PLATE FOR AUDIO/VISUAL SPEAKER.
 6. ELECTRICAL CONTRACTOR TO PROVIDE 4SQ DEEP BOX WITH SINGLE GANG RING FOR AUDIO/VISUAL PROJECTOR CONNECTIONS. PROJECTOR AND CONNECTIONS INSTALLED AND SUPPLIED BY APS VENDOR.
 7. ELECTRICAL CONTRACTOR TO PROVIDE 4SQ DEEP BOX WITH SINGLE GANG RING FOR PROJECTOR SCREEN CONNECTIONS. CONTROL CONNECTIONS INSTALLED AND SUPPLIED BY APS VENDOR.
 8. ELECTRICAL CONTRACTOR TO PROVIDE 1 1/2" RACEWAY STUB INTO 1ST FLOOR IT 103A NEAR AUDIO/VISUAL EQUIPMENT RACK.
 9. TYPICAL RACEWAY DOWN TO 1ST FLOOR BY ELECTRICAL CONTRACTOR.
 10. TYPICAL RACEWAY STUBBED INTO 1ST FLOOR IT 103A NEAR AUDIO/VISUAL EQUIPMENT RACK. BY ELECTRICAL CONTRACTOR.
 11. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC POWER FOR PROJECTOR / PROJECTOR SCREEN. COORDINATE WITH APS VENDOR BEFORE INSTALLATION.
 12. WALL MOUNTED SPEAKER PROVIDED AND INSTALLED BY APS VENDOR.

- ### DEVICE LEGEND
- INTERCOM CONTROL PANEL - PROVIDED AND INSTALLED BY APS VENDOR.
 - INTERCOM PATCH PANEL - PROVIDED AND INSTALLED BY APS VENDOR.
 - INTERCOM TERMINAL CABINET (18x18x6) HINGED NEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. RECEPTACLE INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER.
 - HARD LID CEILING SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB 3/4" C. TO NEAREST ACCESSIBLE CEILING SPACE.
 - 2X2 LAY-IN CEILING MOUNT SPEAKER PROVIDED AND INSTALLED BY APS VENDOR.
 - CALL SWITCH PROVIDED AND INSTALLED BY APS VENDOR - REQ'S 4" SQ. DEEP BOX W/ SINGLE RING. MOUNT UP 48" A.F.F. TO TOP. STUB UP 3/4" C. IN SAME ROOM IN ACCESSIBLE CEILING WITH PUSH-ON BUSHING BY ELECTRICAL CONTRACTOR.
 - WEATHER PROOF WALL MOUNT SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB UP 3/4" C. TO ACCESSIBLE CEILING WITH PUSH-ON BUSHING. COORDINATE HEIGHT WITH ARCHITECT. WP DENOTES WEATHER PROOF DEVICE. W/G DENOTES WIRE GUARD.
 - WEATHER PROOF WALL MOUNT COMMUNICATION BELL PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB UP 3/4" C. TO ACCESSIBLE CEILING WITH PUSH-ON BUSHING. COORDINATE HEIGHT WITH ARCHITECT. WP DENOTES WEATHER PROOF DEVICE.
 - SPEAKER CLOCK COMBO PROVIDED AND INSTALLED BY APS VENDOR - REQ'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR.

PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



Mark	Date	Description

SHEET TITLE
SECOND FLOOR PLAN - NORTH PHASE I

TI-103
 SHEET OF

TI1 SECOND FLOOR PLAN - NORTH PHASE I
 Scale: 1/8" = 1'-0"
 Project North
 0' 4' 8' 16'

GENERAL SHEET NOTES

- A. ALL CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- C. COORDINATE ALL INTERCOM WITH APS VENDOR.
- D. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- E. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.

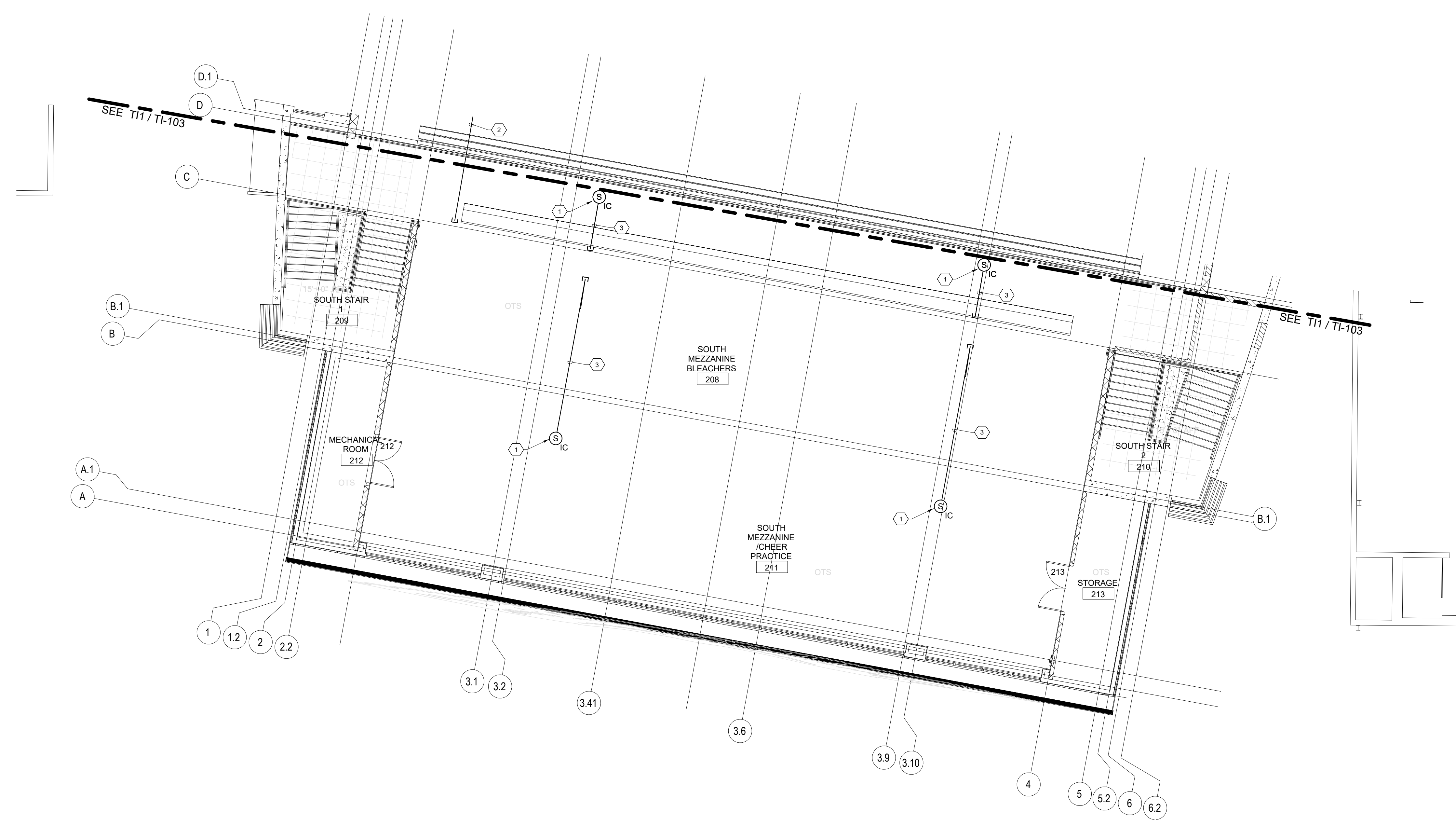
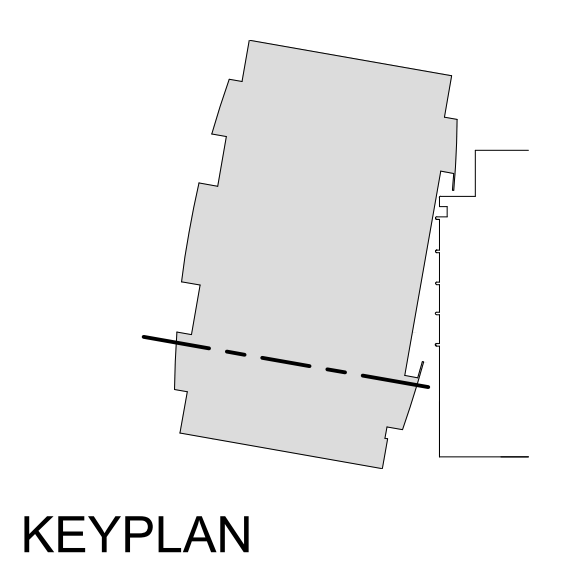
KEYNOTES

- 1. CEILING MOUNTED SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB 3/4" C. TO NEAREST ACCESSIBLE CEILING SPACE OR TO CABLE TRAY.
- 2. ELECTRICAL CONTRACTOR TO PROVIDE 1/2" C. FOR INTERCOM CABLING FROM IT 103A TO 2ND FLOOR SOUTH MEZZANINE BLEACHERS 208. REFER TO SHEET TI-101.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. FOR INTERCOM / PAGING SYSTEM CABLING. STUB UP TO ACCESSIBLE CEILING SPACE AS SHOWN.

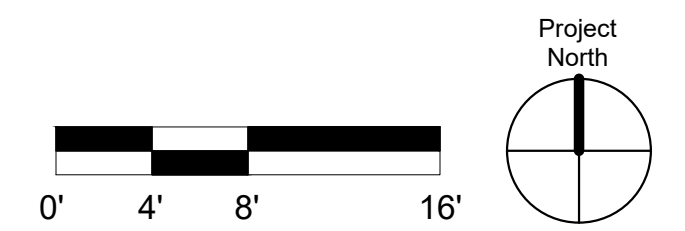
DEVICE LEGEND

- INTERCOM CONTROL PANEL - PROVIDED AND INSTALLED BY APS VENDOR.
- INTERCOM PATCH PANEL - PROVIDED AND INSTALLED BY APS VENDOR.
- INTERCOM TERMINAL CABINET (18x18x6) HINGED NEMA 1 - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC. RECEPTACLE INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER.
- HARD LID CEILING SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB 3/4" C. TO NEAREST ACCESSIBLE CEILING SPACE.
- 2x2" LAY-IN CEILING MOUNT SPEAKER PROVIDED AND INSTALLED BY APS VENDOR.
- CALL SWITCH PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S 4" SQ. DEEP BOX W/ SINGLE RING. MOUNT UP 48" A.F.F. TO TOP. STUB UP 3/4" C. IN SAME ROOM IN ACCESSIBLE CEILING WITH PUSH-ON BUSHING BY ELECTRICAL CONTRACTOR.
- WEATHER PROOF WALL MOUNT SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB UP 3/4" C. TO ACCESSIBLE CEILING WITH PUSH-ON BUSHING. COORDINATE HEIGHT WITH ARCHITECT. WP DENOTES WEATHER PROOF DEVICE. W/G DENOTES WIRE GUARD.
- WEATHER PROOF WALL MOUNT COMMUNICATION BELL PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB UP 3/4" C. TO ACCESSIBLE CEILING WITH PUSH-ON BUSHING. COORDINATE HEIGHT WITH ARCHITECT. WP DENOTES WEATHER PROOF DEVICE.
- SPEAKER CLOCK COMBO PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR.

PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



TI1 SECOND FLOOR PLAN - SOUTH PHASE I
 Scale: 1/8" = 1'-0"



Mark	Date	Description
	JANUARY 13, 2020	
Project Number		
Drawn By S&S		
Checked By S&S		
SHEET TITLE		
SECOND FLOOR PLAN - SOUTH PHASE I		
SHEET TI-104 OF		

GENERAL SHEET NOTES

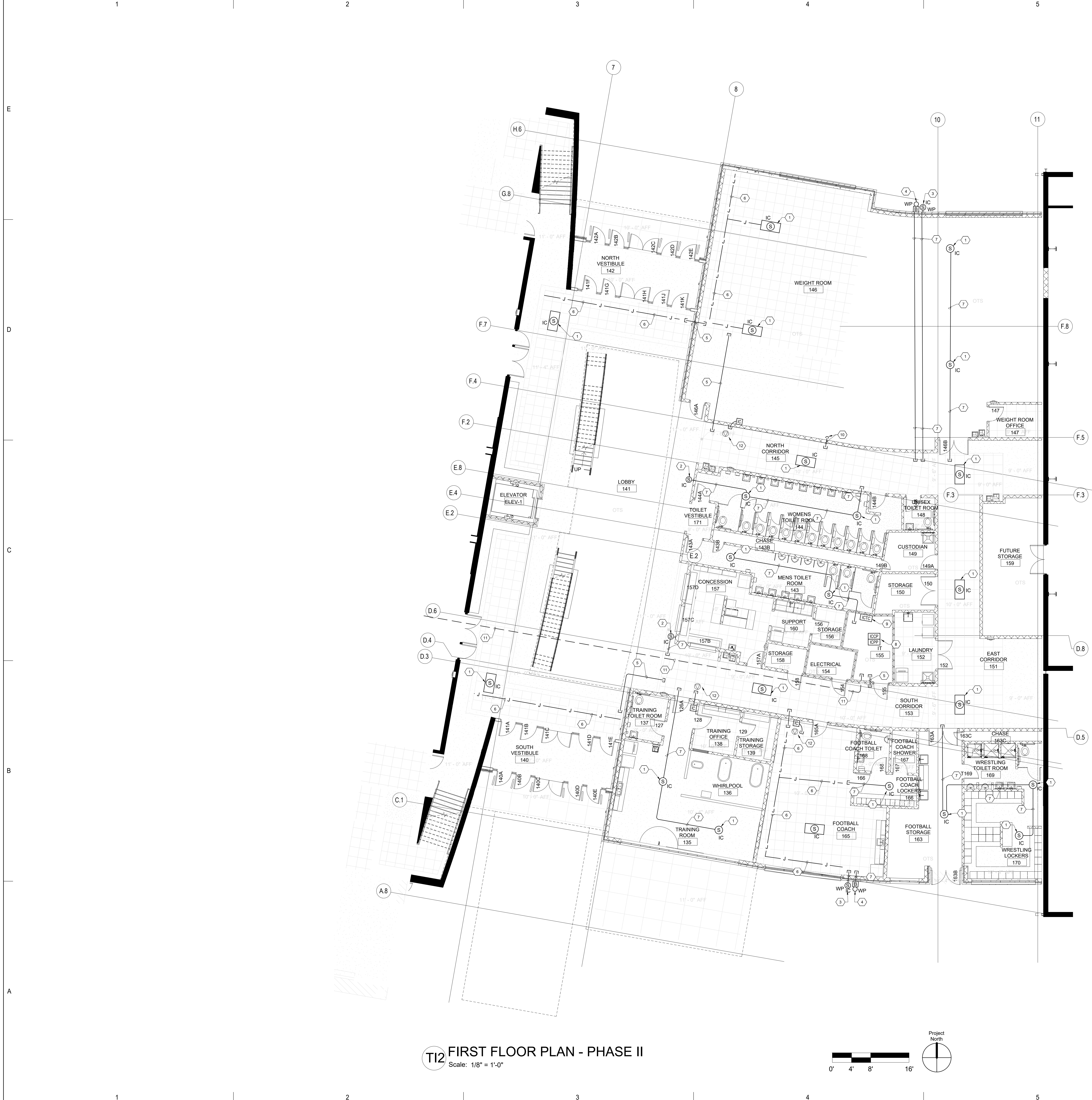
- A. ALL CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- C. COORDINATE ALL INTERCOM WITH SPECIAL SYSTEMS CONTRACTOR.
- D. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- E. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.

KEYNOTES

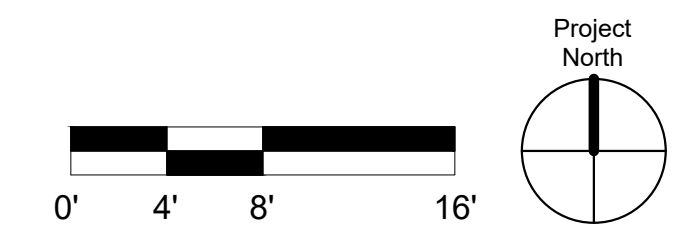
- 1. CEILING MOUNTED SPEAKER PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB 3/4" C. TO NEAREST ACCESSIBLE CEILING SPACE OR TO CABLE TRAY.
- 2. WALL MOUNTED INTERCOM SPEAKER PROVIDED AND INSTALLED BY APS VENDOR. REQUIRES SPECIAL BACK BOX AND WIRE GUARD BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR.
- 3. WALL MOUNTED WEATHER PROOF INTERCOM SPEAKER PROVIDED AND INSTALLED BY APS VENDOR. REQUIRES SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR.
- 4. WALL MOUNTED BELL PROVIDED AND INSTALLED BY APS VENDOR. REQUIRES SPECIAL BACK BOX BY APS VENDOR. INSTALLED BY ELECTRICAL CONTRACTOR.
- 5. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTERCOM CABLING.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE J-HOOK PATH FOR INTERCOM CABLING.
- 7. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. FOR INTERCOM / PAGING SYSTEM CABLING. STUB UP TO ACCESSIBLE CEILING SPACE AS SHOWN.
- 8. INTERCOM CONTROL PANEL (ICCP) AND INTERCOM PATCH PANEL (ICPP) PROVIDED AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC REQUIREMENTS PER APS NETWORK SPECIFICATIONS.
- 9. INTERCOM TERMINAL CAN 18X18X6 HINGED NEMA 1 BOX PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC RECEPTACLE INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTERCOM TERMINAL CAN DETAIL.
- 10. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTERCOM CABLING FROM CABLE TRAY TO 2ND FLOOR IT 233C. REFER TO SHEET TI-112.
- 11. ELECTRICAL CONTRACTOR TO PROVIDE 1-2" C. FOR INTERCOM CABLING FROM IT-103A PHASE I TO IT-155 PHASE II.
- 12. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR INTERCOM NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION. CONNECTION AND CABLING BY APS VENDOR.

DEVICE LEGEND

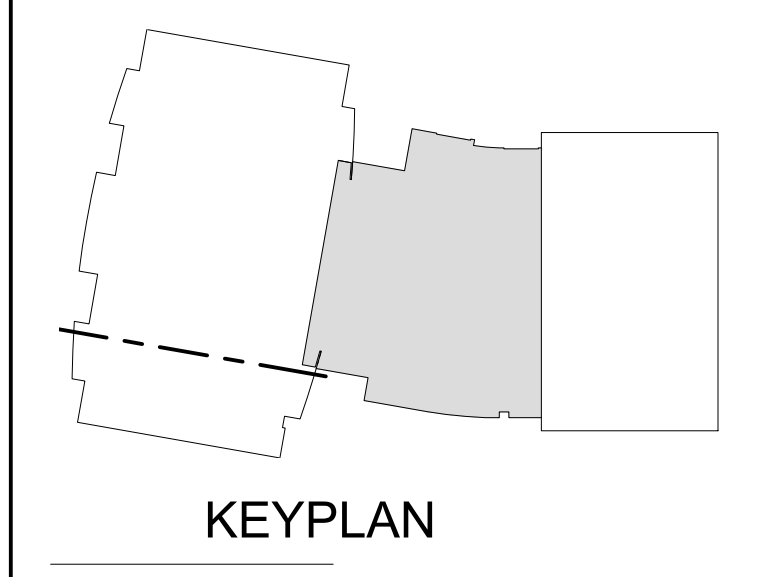
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- SPEAKER CLOCK COMBO PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR.



T12 FIRST FLOOR PLAN - PHASE II
Scale: 1/8" = 1'-0"



PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



Mark	Date	Description
	JANUARY 13, 2020	
		Project Number
		Drawn By S&S
		Checked By S&S

SHEET TITLE
FIRST FLOOR PLAN - PHASE II



GENERAL SHEET NOTES

- A. ALL CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- B. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- C. COORDINATE ALL INTERCOM WITH APS VENDOR.
- D. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- E. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.

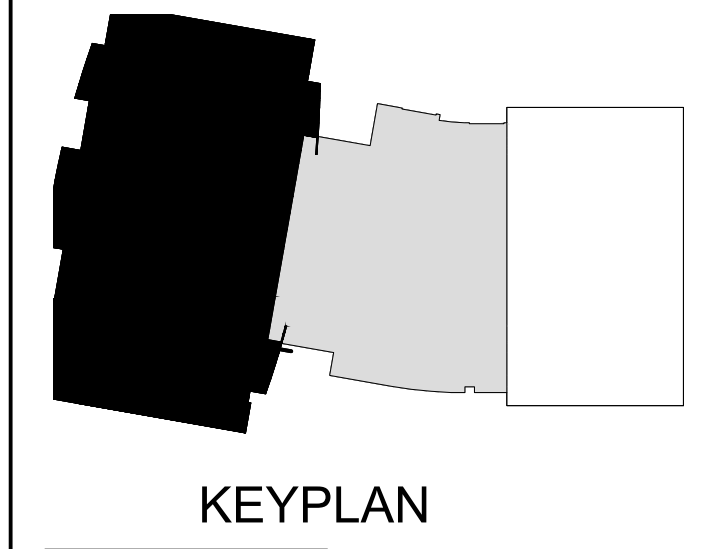
KEYNOTES

- 1. CEILING MOUNTED SPEAKER. PROVIDED AND INSTALLED BY APS VENDOR - REQ.'S SPECIAL BACK BOX FURNISHED BY APS VENDOR. BACK BOX INSTALLED BY ELECTRICAL CONTRACTOR. STUB 3/4" C. TO NEAREST ACCESSIBLE CEILING SPACE OR TO CABLE TRAY.
- 2. ELECTRICAL CONTRACTOR TO PROVIDE 1/2" C. FOR INTERCOM CABLING.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE J-HOOK PATH FOR INTERCOM CABLING.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" C. FOR INTERCOM / PAGING SYSTEM CABLING. STUB UP TO ACCESSIBLE CEILING SPACE AS SHOWN.
- 5. INTERCOM CONTROL PANEL (ICCP) AND INTERCOM PATCH PANEL (ICPP) PROVIDED BY AND INSTALLED BY APS VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC REQUIREMENTS PER APS NETWORK SPECIFICATIONS.
- 6. INTERCOM TERMINAL CAN 18X18X6 HINGED NEMA 1 BOX. PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. REQUIRES 120VAC RECEPTACLE INSTALLED INSIDE CABINET IN LOWER RIGHT CORNER. REFER TO INTERCOM TERMINAL CAN DETAIL.
- 7. ELECTRICAL CONTRACTOR TO PROVIDE 1/2" C. FOR INTERCOM CABLING FROM 2ND FLOOR IT 2330 TO CABLE TRAY IN 1ST FLOOR NORTH CORRIDOR 145. REFER TO SHEET TI-111.
- 8. ELECTRICAL CONTRACTOR TO PROVIDE 4 11/16" SQUARE DEEP BOX WITH NO RISE SINGLE GANG RING FOR INTERCOM NETWORK CABLING CONNECTION. BOX MUST BE ACCESSIBLE COORDINATE WITH APS TECHNOLOGY DEPARTMENT FOR EXACT LOCATION. CONNECTION AND CABLING BY APS VENDOR.

DEVICE LEGEND

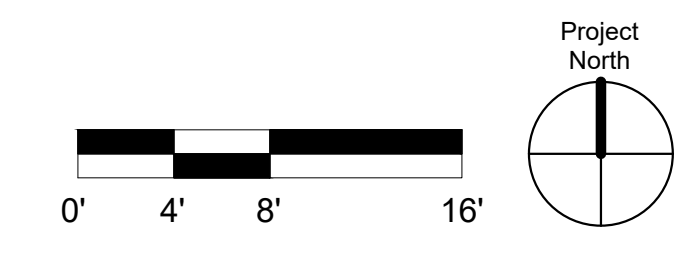
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- 2X2" LAY-IN CEILING MOUNT SPEAKER PROVIDED AND INSTALLED BY APS VENDOR.
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PROJECT
Albuquerque Public Schools
Rio Grande High School Gymnasium
 ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



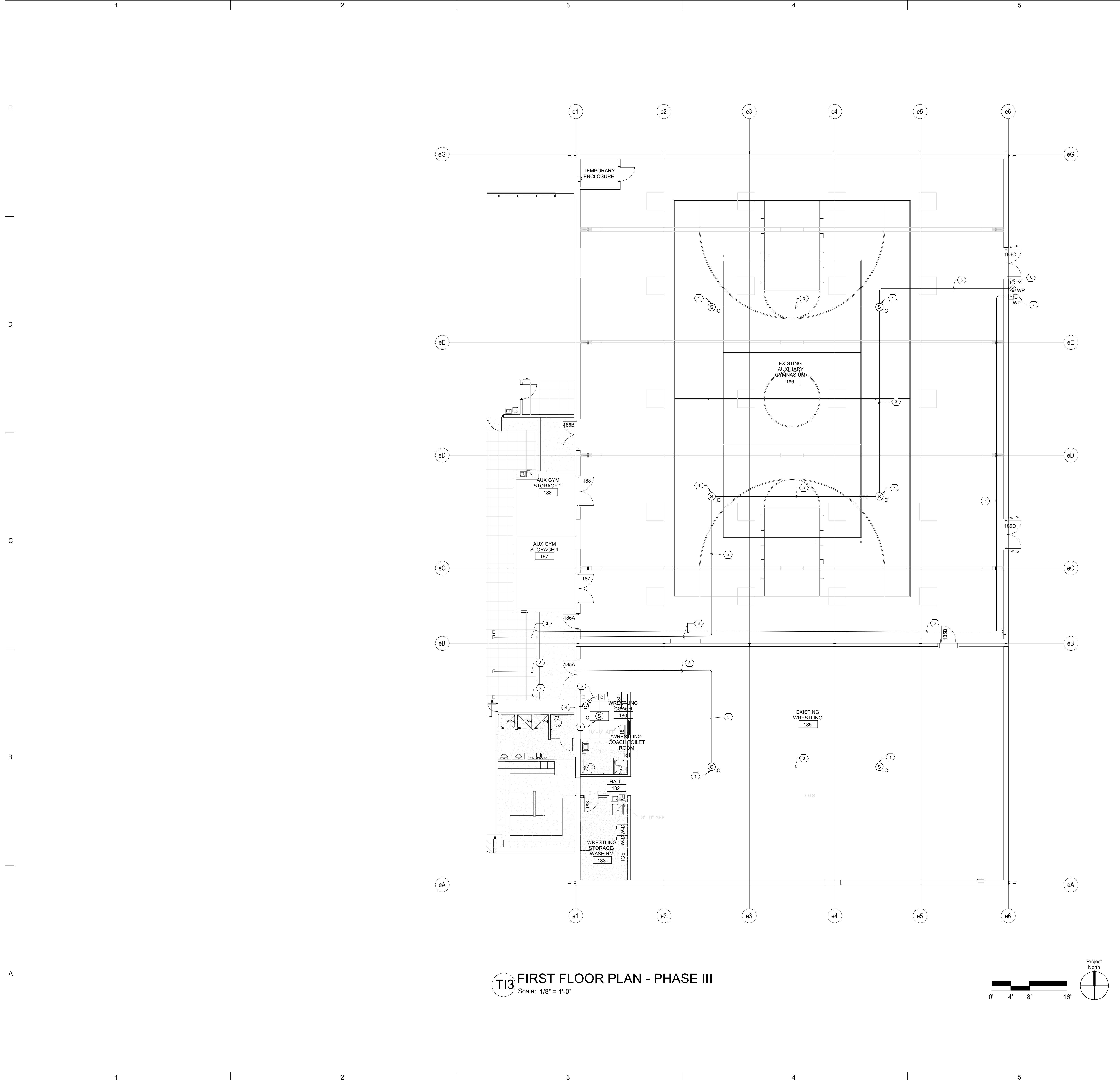
TI1 CLERESTORY PLAN - PHASE II
 Scale: 1/8" = 1'-0"

TI2 SECOND FLOOR PLAN - PHASE II
 Scale: 1/8" = 1'-0"



Mark	Date	Description
	JANUARY 13, 2020	
		Project Number
		Drawn By S&S
		Checked By S&S

SHEET TITLE
SECOND FLOOR & CLERESTORY PLANS - PHASE II
 SHEET **TI-112** OF 99



GENERAL SHEET NOTES

- ALL CONDUIT SHALL BE 1" C. UNLESS OTHERWISE NOTED. BUSHINGS REQUIRED AT CONDUIT ENDS.
- STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- COORDINATE ALL INTERCOM WITH APS VENDOR.
- ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.

KEYNOTES

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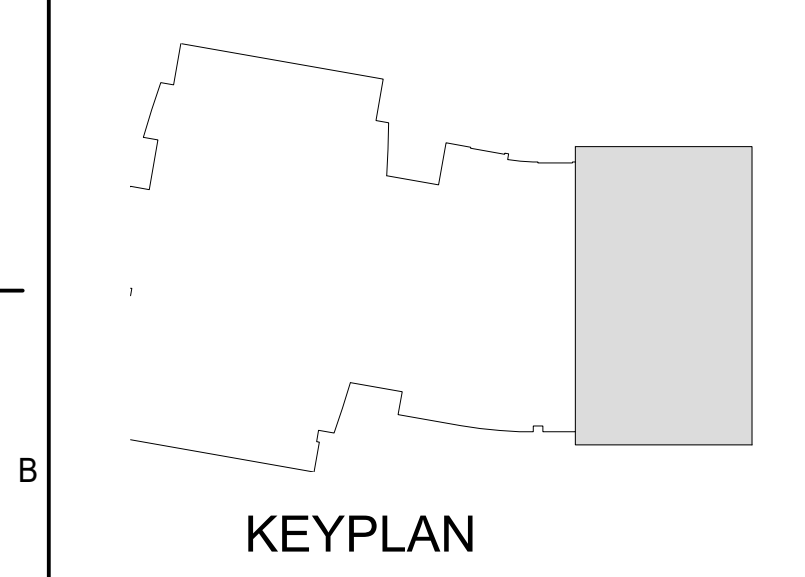
DEVICE LEGEND

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- INTERCOM PATCH PANEL - PROVIDED AND INSTALLED BY APS VENDOR.
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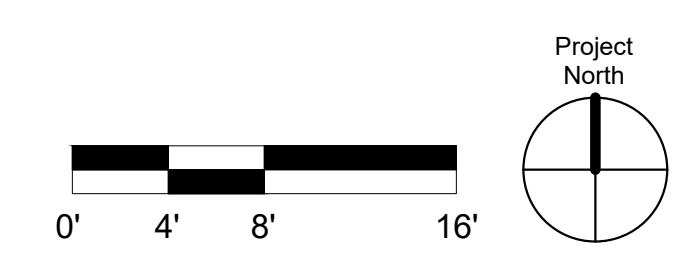
PROJECT

**Albuquerque Public Schools
Rio Grande High School Gymnasium**

ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105



TI3 FIRST FLOOR PLAN - PHASE III
Scale: 1/8" = 1'-0"



Mark	Date	Description
	JANUARY 13, 2020	

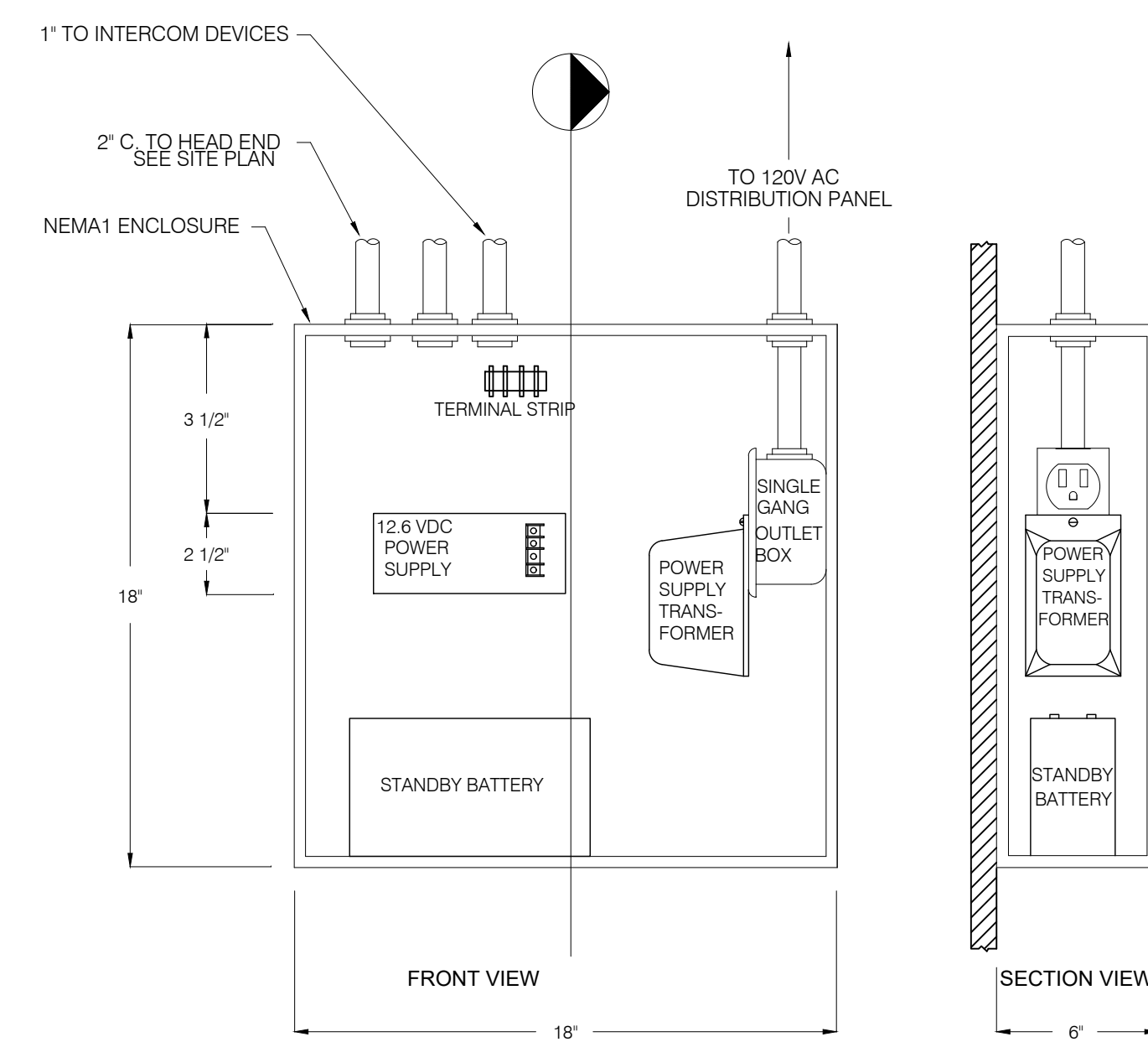
SHEET TITLE

FIRST FLOOR PLAN - PHASE III

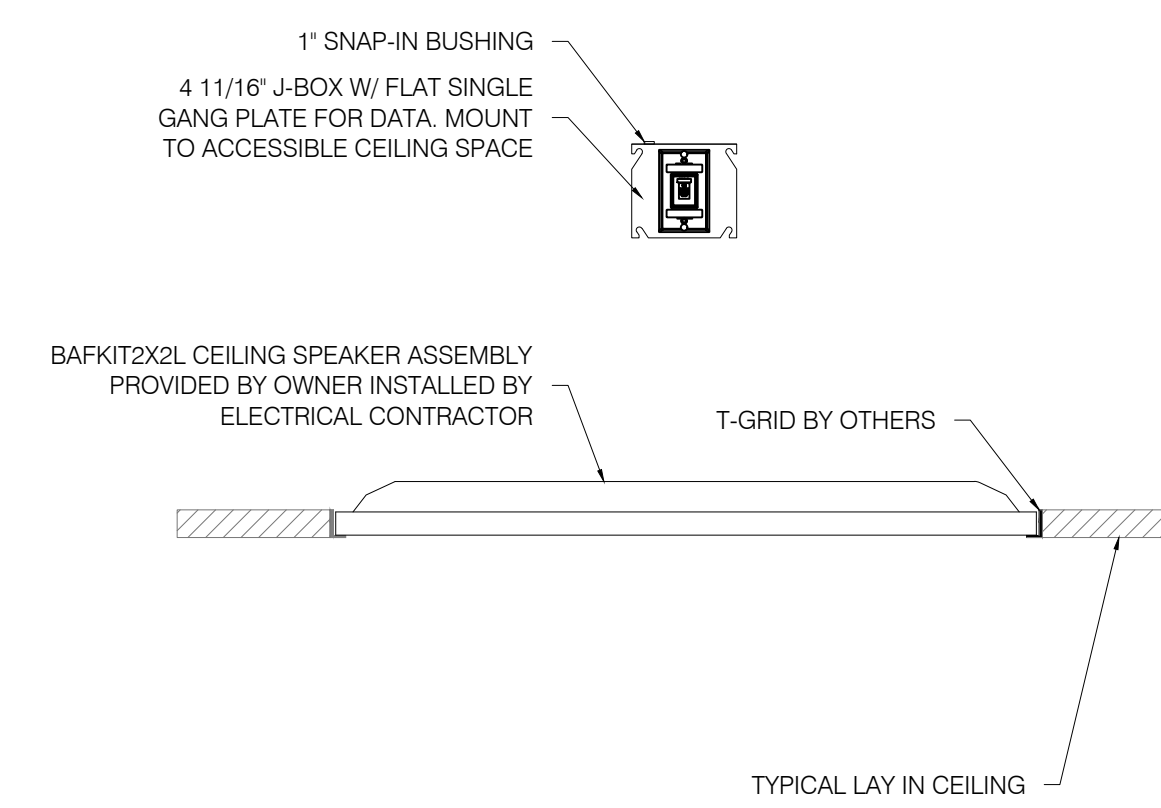
TI-121
SHEET OF

GENERAL SHEET NOTES

- A. STUB ALL CONDUIT INTO CEILING CAVITY. POINT IN DIRECTION OF CABLE TRAY. PROVIDE 2" C. SLEEVES THROUGH CLASSROOM/CORRIDOR WALLS.
- B. COORDINATE ALL INTERCOM SYSTEMS WITH APS VENDOR.
- C. ALL DATA DEVICE BOXES SHALL BE 4 11/16" SQUARE DEEP BOX WITH SINGLE GANG RING.
- D. SEE SPECIFICATION SECTION 26 0548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS" FOR PROJECT SEISMIC RESTRAINT REQUIREMENTS.
- E. INTERCOM SHALL BE IN COMPLETE 1" CONDUIT SYSTEM.



INTERCOM TERMINAL BOX DETAIL



INTERCOM SPEAKER DETAIL

PROJECT

Albuquerque Public Schools
Rio Grande High School Gymnasium

ADDRESS
2330 Arenal Road SW
Albuquerque, NM
87105

Mark	Date	Description

SHEET TITLE
**EQUIPMENT
ELEVATION DETAILS**

SHEET **TI-300** OF

PT-RZ970/770/660 Series

1-Chip DLP™ Projectors

Available from Summer 2016

Extraordinary SOLID SHINE Power from Compact and Versatile 1-Chip DLP™ Laser Projectors



PT-RZ970/770/660 Series

	PT-RZ970	PT-RZ770	PT-RZ660	PT-RW930	PT-RW730	PT-RW620	PT-RX110
Resolution	WUXGA			WXGA			XGA
Brightness	10,000 lm (Center) 9,400 lm*	7,200 lm (Center) 7,000 lm*	6,200 lm (Center) 6,000 lm*	10,000 lm (Center) 9,400 lm*	7,200 lm (Center) 7,000 lm*	6,200 lm (Center) 6,000 lm*	10,400 lm (Center) 10,000 lm*
Contrast	10,000:1						

* Measured according to strict international ISO 21118 standards

Radiant Picture Quality and Long-Lasting Reliability

- Up to 10,400 lm*¹ Brightness in a Compact and Lightweight Design
- 1-Chip DLP™ Imaging and SOLID SHINE Laser Technology Deliver Superior White-balance and Color Accuracy
- Dynamic Light Control for 10,000:1*² Contrast
- Consistent Long-Lasting Picture Quality
- Detail Clarity Processor 3 Improves Image Clarity, Detail, and Depth
- System Daylight View 3 Ensures Crisp Images for Projection Mapping and Brightly Lit Indoor Environments

Consistently Stable Performance

- Filterless Dust-Resistant Optical Drive
- Up to 20,000 hours of Continuous Maintenance-free Operation*³
- Selectable Operational Modes Extend Service Life to Up to 10 Years*⁴
- Dual-Drive Laser Optical Engine Ensures Reliable 24/7 Operation with Light-source Failover Protection Circuitry
- Efficient Cooling System for Stable Operation and Low 35 dB*⁵ Noise Levels
- Backup Input Setting Maintains Image Display for Mission-Critical Applications

Easy System Integration and Installation Flexibility

- Contrast Sync and Shutter Sync Function for Multiple-unit Projection
- Free 360-degree Installation (Vertical and Horizontal)
- DIGITAL LINK Supports Transmission of Uncompressed Full HD Video, Audio, and Control Commands Through a Single CAT 5e or Higher STP Cable for Distances of Up to 150 m (492 ft)*⁶
- Quick Start*⁷/Quick Off with No Cool-down or Warm-up Required
- Compatible with Art-Net Lighting-control Protocol
- Geometric Adjustment for Curved and Specially Shaped Screens
- Geometry Manager Pro*⁸ and Optional Upgrade Kit (ET-UK20 Series)*⁹

*¹ PT-RZ970 and PT-RW930 features 10,000 lm (Center), PT-RX110 10,400 lm (Center), PT-RZ770 and PT-RW730 7,200 lm (Center), PT-RZ660 and PT-RW620 6,200 lm (Center) of brightness. *² With Dynamic Contrast Mode set to 3. *³ At 20,000 hours, projector brightness decreases to about half of its original level (Dynamic Contrast Mode: 3, Image Mode: Dynamic). Panasonic recommends cleaning or checkup at point of purchase after 20,000 hours (approximately). Light source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. *⁴ With Operating Mode set to Long Life 3, 24 hours/day x 365 days/year x 10 years = 87,600 hours. Replacement of parts other than the light source may be required in a shorter period. *⁵ PT-RZ660/RW620: 35 dB (tentative), PT-RZ770/RW730: 37 dB (tentative), PT-RZ970/RW930/RX110: 41 dB *⁶ 150 m (492 ft) transmission available only in Long Reach Mode with optional ET-YFB200G DIGITAL LINK Switcher for signals up to 1080/60p (dot-clock frequency 148.5 MHz). Transmission distance is up to 100 m (328 ft) in other cases. *⁷ When Quick Startup is activated, projection starts about one second after the power button is pressed. Quick Startup mode resets to OFF if the projector has not been switched on for more than 90 minutes to reduce power consumption. *⁸ Geometry Manager Pro software is available only with PT-RZ970/RZ770/RZ660. *⁹ ET-UK20 Series is available only with PT-RZ970/RZ770/RZ660.

Specifications (Tentative)

Model	PT-RZ970/RZ770/RZ660	PT-RW930/RW730/RW620	PT-RX110	
Power supply	AC 100–240 V, 50/60 Hz			
Power consumption	PT-RZ970/RW930/RX110: Normal: 1050 W, Eco: 770 W, Long Life 1: 480 W, Long Life 2: 440 W, Long Life 3: 390 W, Shutter: 82 W (Operating temperature 25 °C [77 °F], altitude 700 m [2,297 ft], IEC62087: 2008 Broadcast Content, Picture Mode: Standard, Dynamic Contrast: 2), 0.3 W with Standby Mode set to ECO, 3 W with Standby Mode set to Normal Other Models: TBD			
DLP™ chip	Panel size	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)	17.8 mm (0.7 in) diagonal (4:3 aspect ratio)	
	Display method	DLP™ chip × 1, DLP™ projection system		
	Pixels	2,304,000 (1920 × 1200) pixels	1,024,000 (1280 × 800) pixels	
Lens	Powered zoom (throw ratio 1.7–2.4:1), powered focus F 1.7–1.9, f 25.6–35.7 mm			
Light source	Laser diodes laser Class 1 (Class 3R for US models), light source life*: 20,000 hours (Normal Mode) / 24,000 hours (Eco Mode). At this time the brightness will have decreased to approximately half of its original level.			
Screen size (diagonal)	1.27–15.24 m (50–600 in), 1.27–5.08 m (50–200 in) with ET-DLE055, 2.54–8.89 m (100–350 in) with ET-DLE030, 16:10 aspect ratio (except PT-RX110), 4:3 aspect ratio (PT-RX110)			
Brightness	PT-RZ970: 10,000 lm (Center) / 9,400 lm ^{†1} PT-RZ770: 7,200 lm (Center) / 7,000 lm ^{†1} PT-RZ660: 6,200 lm (Center) / 6,000 lm ^{†1}	PT-RW930: 10,000 lm (Center) / 9,400 lm ^{†1} PT-RW730: 7,200 lm (Center) / 7,000 lm ^{†1} PT-RW620: 6,200 lm (Center) / 6,000 lm ^{†1}	10,400 lm (Center) / 10,000 lm ^{†1}	
	Center-to-corner uniformity ^{†1}	90 %		
	Contrast ^{†1}	10,000:1 (Full On/Full Off, Dynamic Contrast Mode: ON)		
	Resolution	1920 × 1200 pixels	1280 × 800 pixels	1024 × 768 pixels
Scanning frequency	SD-SDI	SMPTIE ST 259 compliant, [YCbCr 4:2:2 10-bit] 480i (525i), 576i (625i)		
	HD-SDI	SMPTIE ST 292 compliant, [YCbCr 4:2:2 10-bit] 720 (750)/60p, 720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/25p, 1080 (1125)/24p, 1080 (1125)/24sf, 1080 (1125)/30p		
	3G-SDI	SMPTIE ST 424 compliant, [RGB 4:4:4 12-bit/10-bit] 1080(1125)/60i, 1080(1125)/50i, 1080(1125)/25p, 1080(1125)/24p, 1080(1125)/24sf, 1080(1125)/30p, [YCbCr 4:2:2 10-bit] 1080(1125)/60p, 1080(1125)/50p		
	HDMI/DVI-D/DIGITAL LINK	480i (525i) ^{†2} , 576i (625i) ^{†2} , 480p (525p), 576p (625p), 720 (750)/60p, 720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/25p, 1080 (1125)/24p, 1080 (1125)/24sf, 1080 (1125)/30p, 1080 (1125)/50p, VGA (640 × 480)–WUXGA ^{†3} (1920 × 1200) (compatible with non-interfaced signals only), dot clock: 25–162 MHz		
	RGB	fh: 15–100 kHz, fv: 24–120 Hz, dot clock: 20–162 MHz		
	YPbPr (YCbCr)	fh: 15.75 kHz, fv: 60 Hz [480i (525i)], fh: 15.63 kHz, fv: 50 Hz [576i (625i)], fh: 45.00 kHz, fv: 60 Hz [720 (750)/60p], fh: 33.75 kHz, fv: 60 Hz [1035 (1125)/60i], fh: 28.13 kHz, fv: 50 Hz [1080 (1125)/50i], fh: 27.00 kHz, fv: 24 Hz [1080 (1125)/24p], fh: 33.75 kHz, fv: 30 Hz [1080 (1125)/30p], fh: 56.25 kHz, fv: 50 Hz [1080 (1125)/50p], fh: 31.50 kHz, fv: 60 Hz [480p (525p)], fh: 31.25 kHz, fv: 50 Hz [576p (625p)], fh: 37.50 kHz, fv: 50 Hz [720 (750)/50p], fh: 33.75 kHz, fv: 60 Hz [1080 (1125)/60i], fh: 28.13 kHz, fv: 25 Hz [1080 (1125)/25p], fh: 27.00 kHz, fv: 48 Hz [1080 (1125)/24sf], fh: 67.50 kHz, fv: 60 Hz [1080 (1125)/60p]		
	Video/VC	fh: 15.75 kHz, fv: 60 Hz (NTSC/NTSC4.43/PAL-M/PAL60), fh: 15.63 kHz, fv: 50 Hz (PAL/PAL-N/SECAM)		
Optical axis shift ^{†4}	Vertical (from center of screen)	+50 %, -16 % (powered)	+50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered)	
	Horizontal (from center of screen)	-30 %, -10 % (+28 %, -10 % with ET-DLE055) (powered)		
Keystone correction range	Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE030), horizontal: ±15 ° (Cannot be operated with ET-DLE030)		Vertical: ±40 ° (±30 ° with ET-DLE085/DLE055, +5 ° with ET-DLE030), Horizontal: ±15 ° (Cannot be operated with ET-DLE030)	
Keystone correction range with optional Upgrade Kit ET-UK20	Vertical: ±45 ° (±40 ° with ET-DLE150/DLE250/supplied lens, ±22 ° with ET-DLE085/DLE055), horizontal: ±40 ° (±15 ° with ET-DLE085/DLE055), Up to a total of ±55 ° during simultaneous horizontal and vertical correction.		—	
Installation	Ceiling/floor, front/rear, free 360-degree installation			
Terminals	SDI IN	BNC × 1: 3G/HD/SD-SDI input		
	HDMI IN	HDMI 19-pin × 1 (Deep Color, compatible with HDCP)		
	DVI-D IN	DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)		
	RGB 1 IN	RGB × 1 (BNC × 5): RGB/YPbPr/YCbCr/YC/VIDEO		
	RGB 2 IN	D-sub HD 15-pin (female) × 1: RGB/YPbPr/YCbCr		
	SERIAL IN	D-sub 9-pin (female) × 1 for external control (RS-232C compliant)		
	SERIAL OUT	D-sub 9-pin (male) × 1 for link control		
	REMOTE 1 IN	M3 × 1 for wired remote control		
	REMOTE 1 OUT	M3 × 1 for link control (for wired remote control)		
	REMOTE 2 IN	D-sub 9-pin (female) × 1 for external control (parallel)		
	LAN/DIGITAL LINK	RJ-45 × 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PjLink™		
	Cabinet materials	Molded plastic		
	Dimensions (W × H × D)	498 × 200 ^{†5} × 581 mm (19 19/32" × 7 7/8" ^{†6} × 22 7/8") (with supplied lens) 498 × 200 ^{†5} × 538 mm (19 19/32" × 7 7/8" ^{†6} × 21 9/16") (without lens)		
Weight ^{†6}	PT-RZ970/RW930/RX110/RZ770/RW730: Approx. 23.2 kg (51.1 lbs.) (with supplied lens), Approx. 22.4 kg (49.4 lbs.) (without lens) PT-RZ660/RW620: Approx. 22.7 kg (50.0 lbs.) (with supplied lens), Approx. 21.9 kg (48.3 lbs.) (without lens)			
Operation noise ^{†1}	PT-RZ970/RW930/RX110: 41 dB, PT-RZ770/RW730: 37 dB (tentative), PT-RZ660/RW620: 35 dB (tentative)			
Operating environment	Operating temperature: 0–45 °C (32–113 °F) ^{†7} , operating humidity: 10–80 % (no condensation)			
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro ^{†8} (ET-UK20 ^{†9} Upgrade Kit)			
Supplied accessories	Power cord with secure lock, wireless/wired remote control unit, batteries (R03/AAA type x 2), software CD-ROM (Logo Transfer Software, Multi Monitoring & Control Software)			

*1 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *2 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal). *3 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). *4 Optical axis shift is not supported on the ET-DLE055, and the optical axis is fixed with the ET-DLE030. *5 With legs at shortest position. *6 Average value. May differ depending on the actual unit. *7 When used in locations from 0 m to 4,200 m (0 ft to 13,780 ft) above sea level in Normal mode, and from 0 m to 2,700 m (0 ft to 8,858 ft) above sea level in other modes. If the ambient temperature exceeds 35 °C (95 °F) when used in locations from 0 m to 2,700 m (0 ft to 8,858 ft) above sea level, or if it exceeds 25 °C (77 °F) when used in locations from 0 m to 4,200 m (0 ft to 13,780 ft) above sea level, the light output may be reduced to protect the projector. *8 Geometry Manager Pro software is available only with PT-RZ970/RZ770/RZ660. *9 ET-UK20 Series is available only with PT-RZ970/RZ770/RZ660.

Optional Accessories

- Fixed-Focus Lens
ET-DLE030
- Zoom Lens
ET-DLE085 / ET-DLE150 /
ET-DLE250 / ET-DLE350 /
ET-DLE450 / ET-DLE055
- Geometry Manager Pro
Software Upgrade Kit
(PT-RZ970/RZ770/RZ660 Only)
ET-UK20 Series
- Early Warning Software
ET-SWA100 Series
- DIGITAL LINK Switcher
ET-YFB200G
- Digital Interface Box
ET-YFB100G
- Ceiling Mount Bracket
ET-PKD130H (6-axis, for high ceiling)
ET-PKD120H (for high ceiling)
ET-PKD120S (for low ceiling)
- Projector Mount Bracket
ET-PKD130B

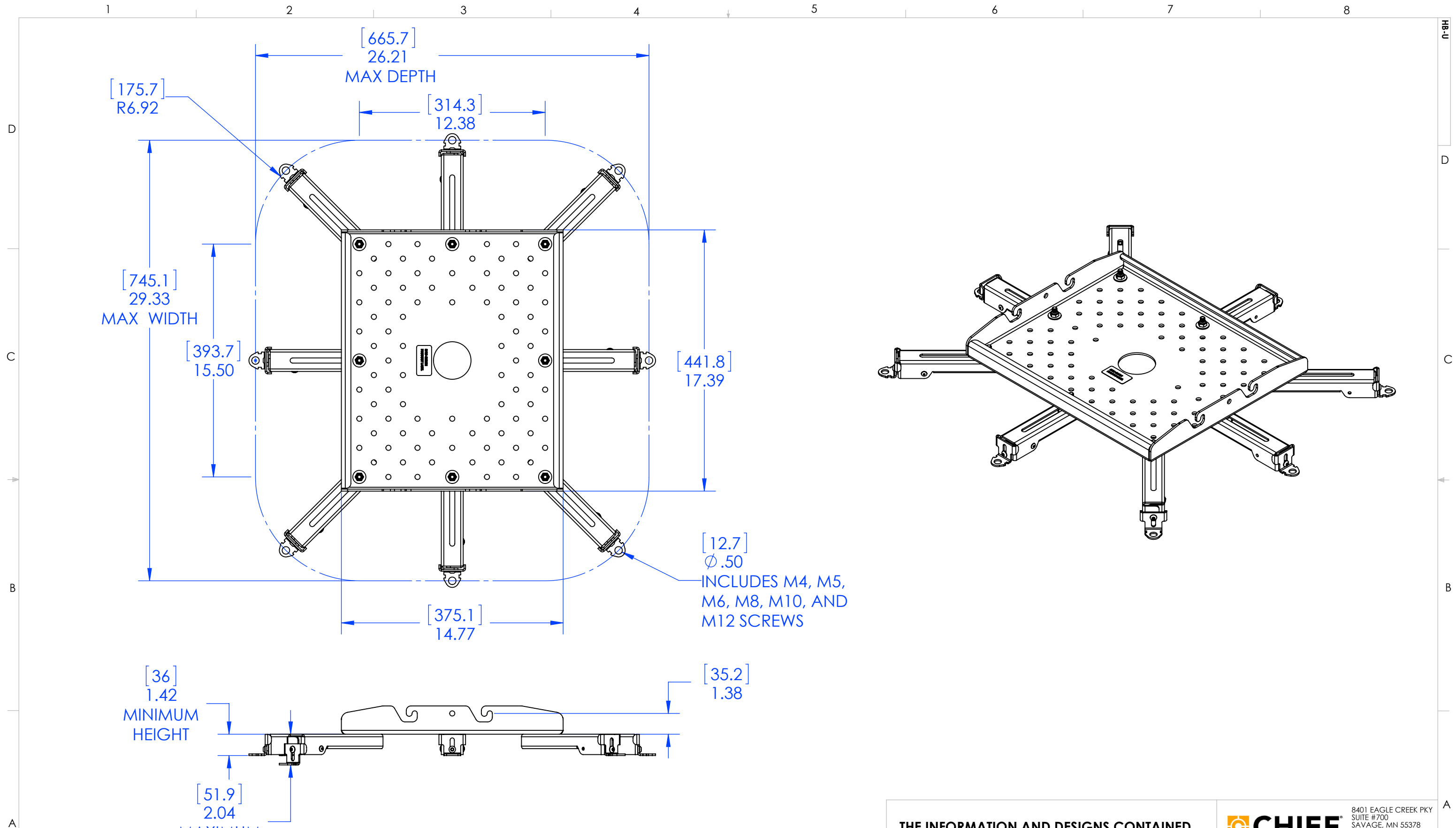


Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations. DLP, DLP logo and DLP Medallion logo are trademarks or registered trademarks of Texas Instruments. HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. The PjLink trademark is an application trademark in Japan, the United States, and other countries and regions or registered trademarks. All other trademarks are the property of their respective trademark owners. © 2016 Panasonic Corporation. All rights reserved.



For more information about Panasonic projectors, please visit:
Projector Global Website – panasonic.net/avc/projector
Facebook – www.facebook.com/panasonicprojector
YouTube – www.youtube.com/user/PanasonicProjector

All information included here is valid as of June 2016.



CHIEF MANUFACTURING INC.
MOUNT ORDER NUMBER IS HB-U
PHONE: 1-800-582-6480

WEIGHT CAPACITY: 250 LBS
SHEET SCALE = 1:6

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TITLE
CUSTOMER PRINT
HB-U

SIZE
B HB-U

8401 EAGLE CREEK PKY
 SUITE #700
 SAVAGE, MN 55378
 PHONE: 952-894-6280
 FAX: 877-894-6918

REV.
00
 Page 46



EASE
EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
 2801 Connery Way Ste. B
 Missoula, MT 59808
 Phn: (406) 541-3273 Fax: (406) 541-3274

Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL

OPA-2103-07

Equipment Manufacturer: Chief Manufacturing Inc.

Equipment Type: PCS Single. PDC Dual Ceiling Mount (Not to be used in patient rooms)

GENERAL NOTES

1. FORCES PER ASCE 7-05 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_{DS} = 1.93$, $a_p = 2.5$, $I_p = 1.5$ & $R_p = 2.5$
2. THIS PRE-APPROVAL CONFORMS TO THE 2007 CALIFORNIA BUILDING CODE.
3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA.
 THE ELEVATED FLOOR DETAILS MAY BE USED AT ANY HEIGHT IN A BUILDING.
4. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE WORKING LOADS (AS OPPOSED TO STRENGTH LEVEL LOADS)
 AND MAY BE USED FOR ALLOWABLE STRESS DESIGN.
5. PER CAN 2-1708A.5, THIS UNIT DOES NOT REQUIRE "SPECIAL SEISMIC CERTIFICATION".

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

6. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.
 THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS)
 WHICH SUPPORT THE UNITS FOR THE LOADS IMPOSED ON THEM BY THE UNITS AS WELL AS ALL OTHER LOADS.
7. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
8. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2007 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL.
 VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND
 GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.



CHIEF MANUFACTURING INC.

PCS SINGLE/PDC DUAL CEILING MOUNT

DES. **R. LA BRIE**

EASE JOB NO. **11-0851**

DATE **10/7/09**

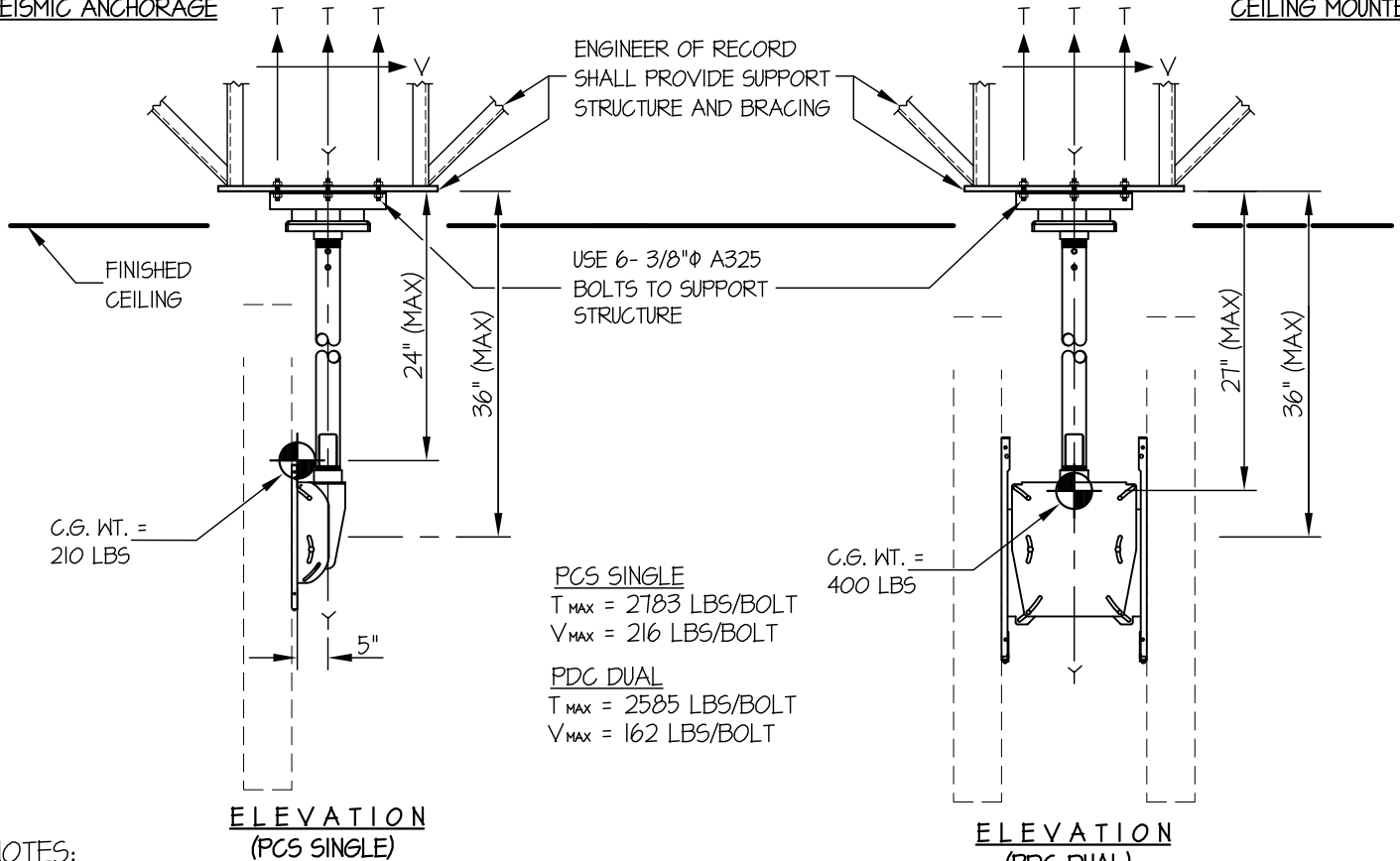
SHEET

2

OF **4** SHEETS

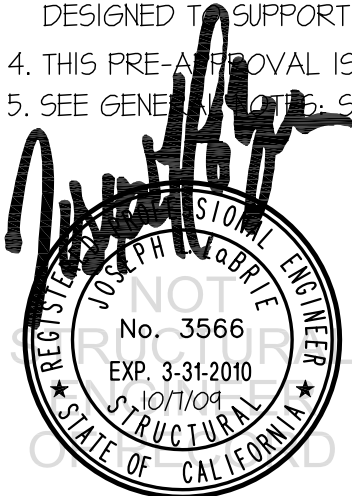
SEISMIC ANCHORAGE

CEILING MOUNTED



NOTES:

- ANCHORAGE DESIGN PER 2007 CALIFORNIA BUILDING CODE - SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED.
HORIZONTAL FORCE (E_h) = $2.43 W_p (S_{ds} = 1.93, I_p = 1.5, a_p = 2.5, R_p = 2.5)$
VERTICAL FORCE (E_v) = $0.27 W_p$
- CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- THIS PRE-APPROVAL IS NOT VALID FOR INSTALLATIONS IN PATIENT ROOMS
- SEE GENERAL NOTES: SHEET 1



CHIEF MANUFACTURING INC.

DES. **R. LA BRIE**

SHEET

3

EASE JOB NO. **11-0851**

PCS SINGLE/PDC DUAL CEILING MOUNT

DATE **10/7/09**

OF **4** SHEETS

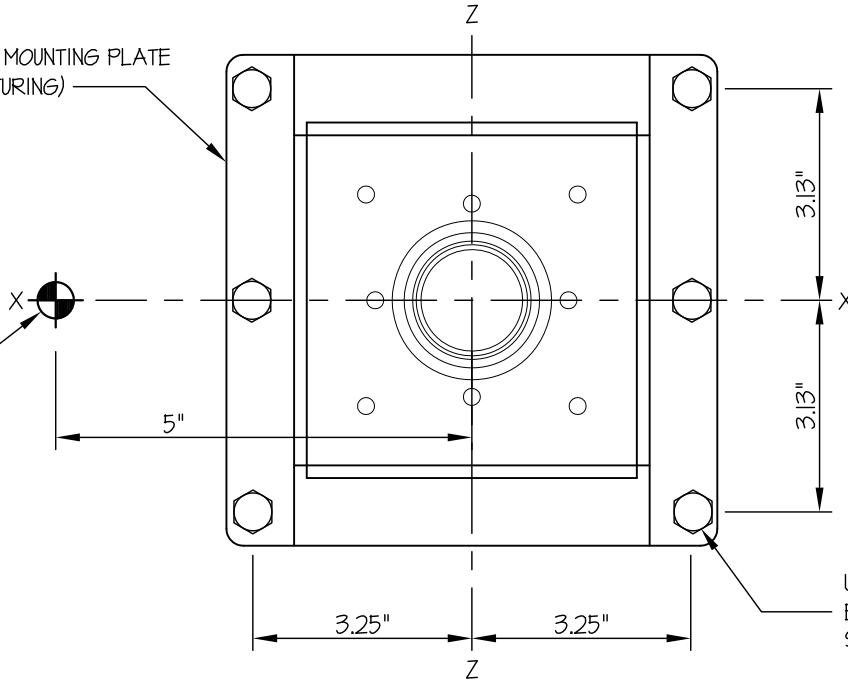
SEISMIC ANCHORAGE

PCS SINGLE

CEILING MOUNTED

PRE-MANUFACTURED MOUNTING PLATE
 (BY CHIEF MANUFACTURING)
 (1 GA., 50 ksi (MIN.))

C.G. WT. =
 210 LBS
 (Y = 24" MAX)



USE 6- 3/8"φ A325
 BOLTS TO SUPPORT
 STRUCTURE

PLAN AT CEILING PLATE



A P P R O V E D
 Fixed Equipment Anchorage
 Office of Statewide Health Planning and Development

OPA-2103-07

Pre-approval Program Manager:
 Anthony R. Pike
 (916) 440-8470

Reviewed By: *Jerry Yee* Page 49 10/7/09

CHIEF MANUFACTURING INC.

DES. **R. LA BRIE**

SHEET

4

EASE JOB NO. **11-0851**

PCS SINGLE/PDC DUAL CEILING MOUNT

DATE **10/7/09**

OF **4** SHEETS

SEISMIC ANCHORAGE

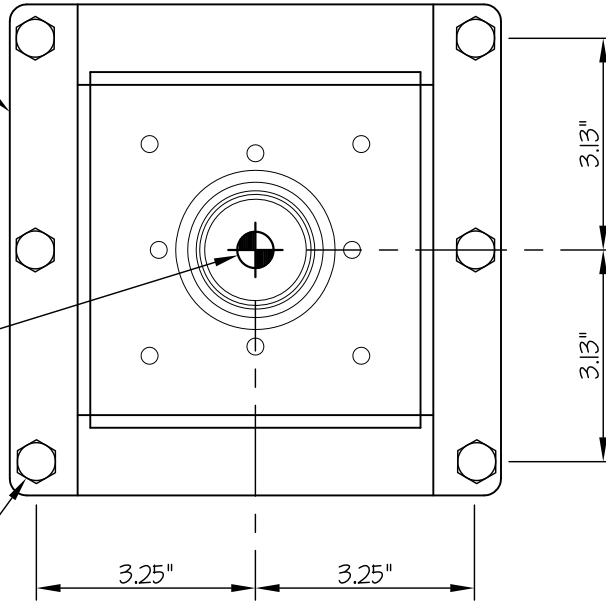
PDC DUAL

CEILING MOUNTED

PRE-MANUFACTURED MOUNTING PLATE
 (BY CHIEF MANUFACTURING)
 (7 GA., 50 ksi (MIN.))

C.G. WT. =
 400 LBS
 (̄ = 27" MAX)

USE 6- 3/8" ϕ A325
 BOLTS TO SUPPORT
 STRUCTURE



PLAN AT CEILING PLATE



A P P R O V E D
 Fixed Equipment Anchorage
 Office of Statewide Health Planning and Development

OPA-2103-07

Pre-approval Program Manager:
 Anthony R. Pike
 (916) 440-8470

Reviewed By: *Jerry Yee* 10/7/09

Page 50

CHIEF MANUFACTURING INC.

PCS SINGLE/PDC DUAL CEILING MOUNT

DES. **R. LA BRIE**

EASE JOB NO. **11-0851**

DATE **10/7/09**

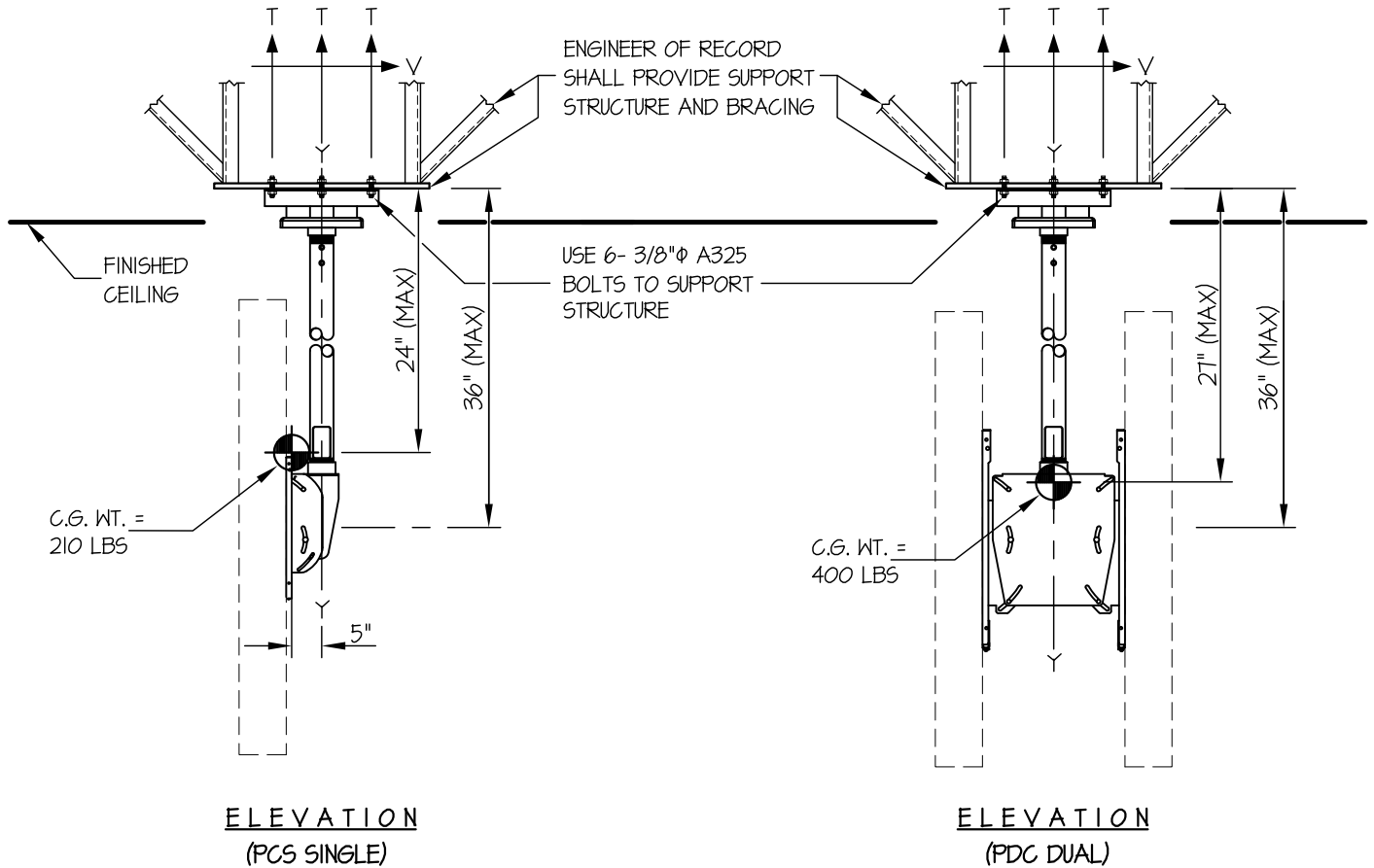
SHEET

1

OF **3** SHEETS

SEISMIC ANCHORAGE

CEILING MOUNTED



ELEVATION
(PCS SINGLE)

ELEVATION
(PDC DUAL)

NOTES:

1. FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED.

HORIZONTAL FORCE (E_h) = $2.43 W_p$ ($S_{DS} = 1.93$, $a_p = 2.5$, $I_p = 1.5$, $R_p = 2.5$)
 VERTICAL FORCE (E_v) = $0.27 W_p$

2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



CHIEF MANUFACTURING INC.

PCS SINGLE/PDC DUAL CEILING MOUNT

DES. **R. LA BRIE**

EASE JOB NO. **11-0851**

DATE **10/7/09**

SHEET

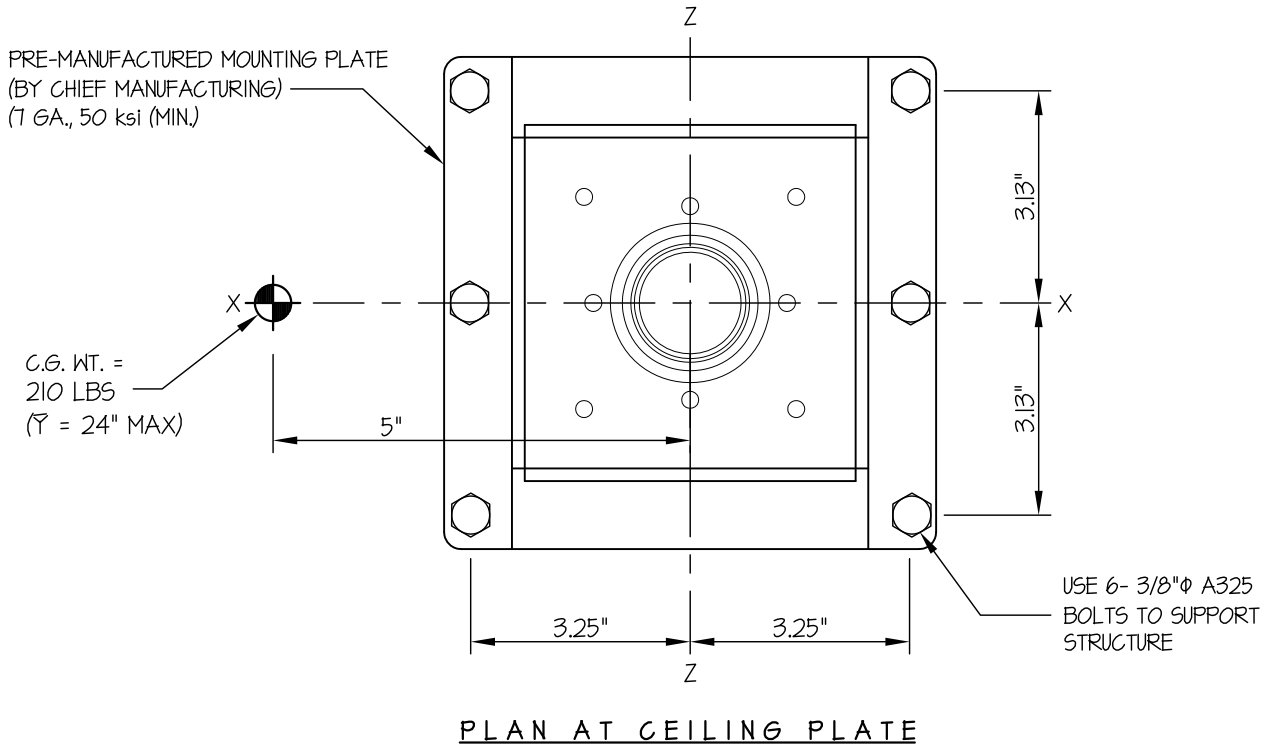
2

OF **3** SHEETS

SEISMIC ANCHORAGE

PCS SINGLE

CEILING MOUNTED



LOADS:

WEIGHT = 210 LBS (INCLUDES 175 LB MONITOR)

HORIZONTAL FORCE (E_h) = 510 LBS

VERTICAL FORCE (E_v) = 57 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[\frac{510\#(24")}{3 \text{ BOLTS}(6.5")} \times (0.3) \right] + \frac{510\#(24")(8.25")}{(6.26")(6.5")} + \frac{(210\# + 57\#)(8.25")}{3 \text{ BOLTS}(6.5")} = 2783 \text{ LBS/BOLT (MAX)}$$

(HORIZ - SIDE TO SIDE) (HORIZ - FRONT TO BACK) (WEIGHT + E_v)

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{510\#(8.25")}{3 \text{ BOLTS}(6.5")} = 216 \text{ LBS/BOLT (MAX)}$$

CHIEF MANUFACTURING INC.

DES. **R. LA BRIE**

SHEET

3

EASE JOB NO. **11-0851**

OF **3**

SHEETS

PCS SINGLE/PDC DUAL CEILING MOUNT

DATE **10/7/09**

SEISMIC ANCHORAGE

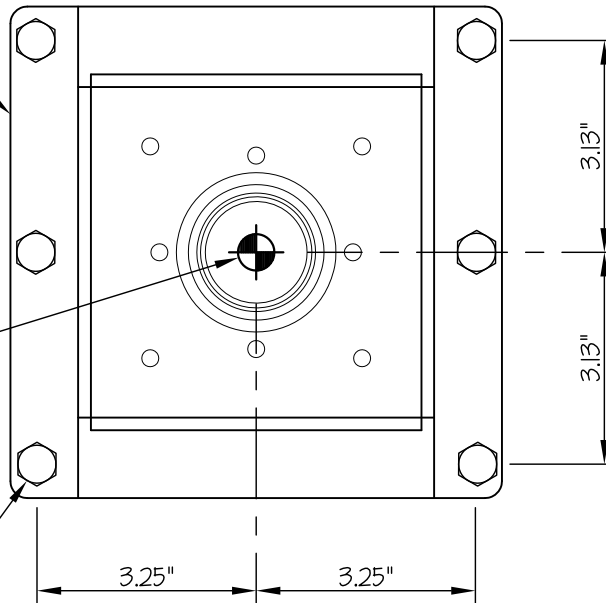
PDC DUAL

CEILING MOUNTED

PRE-MANUFACTURED MOUNTING PLATE
(BY CHIEF MANUFACTURING)
(1 GA., 50 ksi (MIN.))

C.G. WT. =
400 LBS
(\bar{Y} = 27" MAX)

USE 6- 3/8" ϕ A325
BOLTS TO SUPPORT
STRUCTURE



PLAN AT CEILING PLATE

LOADS:

WEIGHT = 400 LBS (INCLUDES 350 LB MONITOR)

HORIZONTAL FORCE (E_h) = 972 LBS

VERTICAL FORCE (E_v) = 108 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[\frac{972\#(27\text{'})}{3 \text{ BOLTS}(6.5\text{'})} \times (0.3) \right] + \frac{972\#(27\text{'})}{2 \text{ BOLTS}(6.26\text{'})} + \frac{400\# + 108\#}{6 \text{ BOLTS}} = 2585 \text{ LBS/BOLT (MAX)}$$

(HORIZ - SIDE TO SIDE) (HORIZ - FRONT TO BACK) (WEIGHT + E_v)

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{972\#}{6 \text{ BOLTS}} = 162 \text{ LBS/BOLT (MAX)}$$

BRACKET ORDER # PG1A

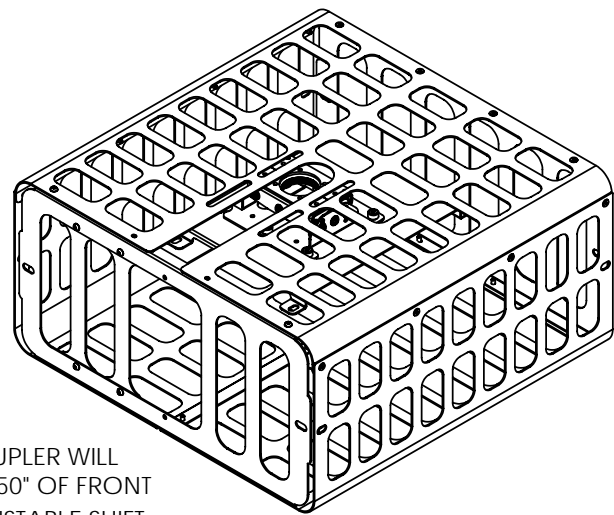
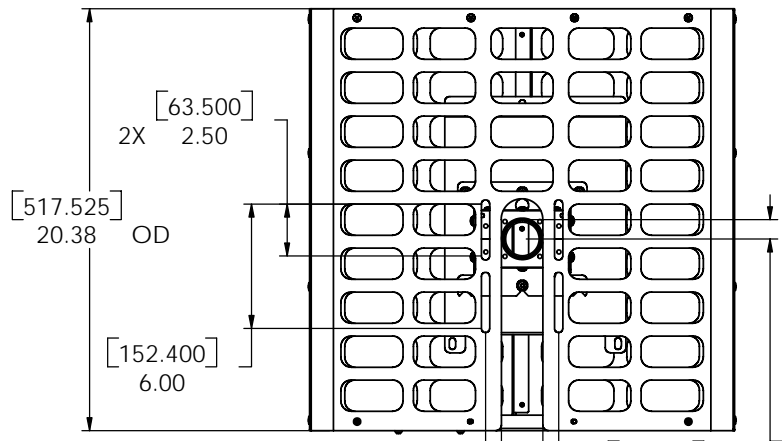
D

C

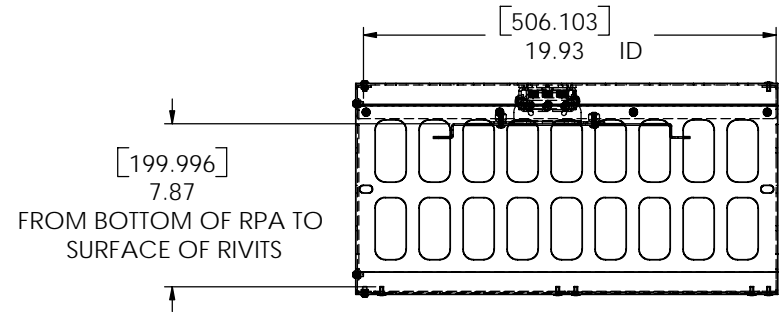
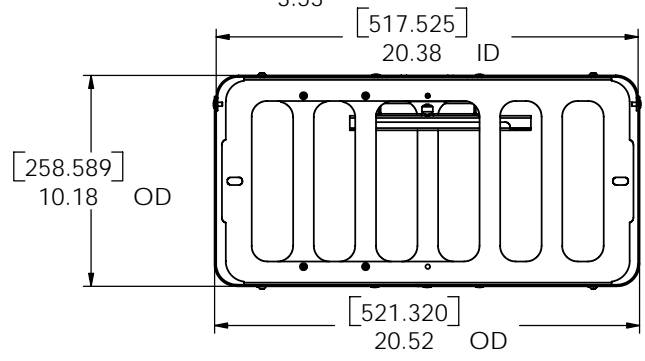
B

A

1 2 3 4 5 6 7 8



1.5" NPSM COUPLER WILL ALLOW FOR 4.50" OF FRONT TO BACK ADJUSTABLE SHIFT .



CHIEF MANUFACTURING INC.

MOUNT ORDER NUMBER IS PG1A
PHONE: 1-800-582-6480



RPA AND SLB BRACKET SOLD SEPARATELY.

HEIGHT DIMENSION DOSE NOT INCLUDE SLB/SLM INTERFACE, YOU MUST ALLOW FOR .25" TO .75" LESS HEIGHT FROM BOTTOM OF RPA DIMENTION FOR SLB/SLM INTERFACE .

RPM SERIES MOUNT REDUCES MAXIMUM HEIGHT BY 1.00"

MAXIMUM HEIGHT USING RPA SERIES MOUNT =7.62" TO 7.12"
MAXIMUM HEIGHT USING RPM SERIES MOUNT =6.62" TO 6.12"

THE INFORMATION AND DESIGNS CONTAINED IN THIS DRAWING ARE CONFIDENTIAL AND THE PROPRIETARY PROPERTY OF CHIEF MFG., INC. NEITHER THIS DESIGN NOR ANY INFORMATION CONTAINED IN THIS DRAWING MAY BE REPRODUCED OR DISCLOSED TO OTHERS WITHOUT THE EXPRESS WRITTEN CONSENT OF CHIEF MFG., INC.

CHIEF 8401 EAGLE CREEK PKY
SAVAGE, MN 55378
PHONE: 952-894-6280
FAX: 877-894-6918

TITLE
CUSTOMER PRINT
PG1A PROJECTOR GUARD,

SEE DWG. NO.
B BRACKET ORDER # PG1A

1 2 3 4 5 6 7 8

BRACKET ORDER # PG1A

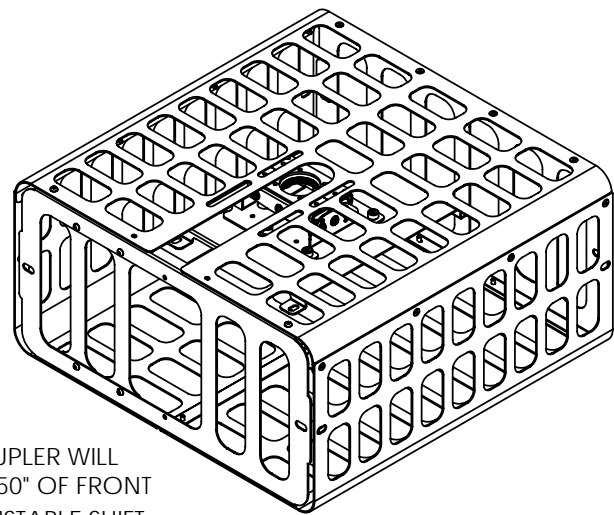
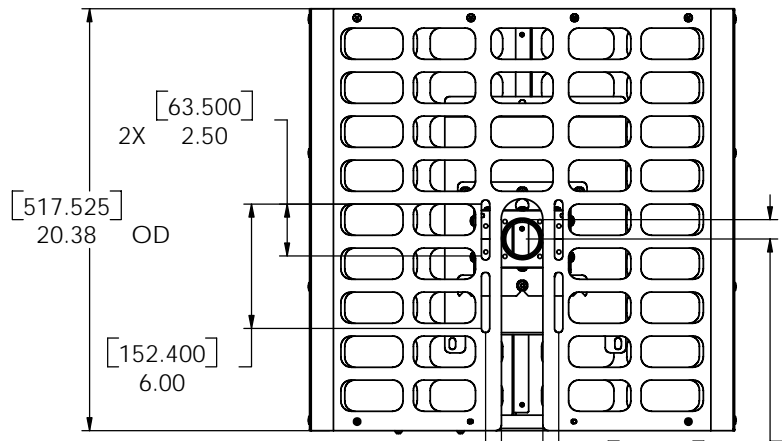
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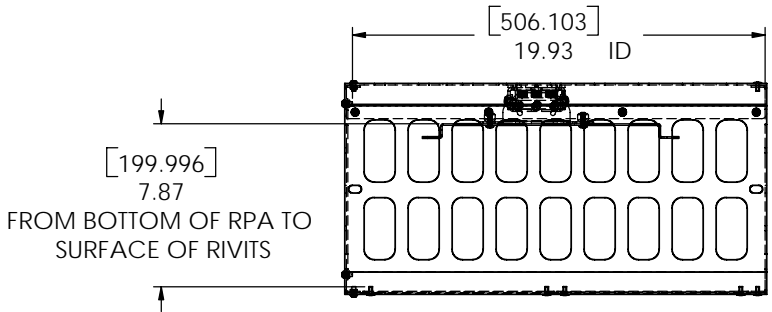
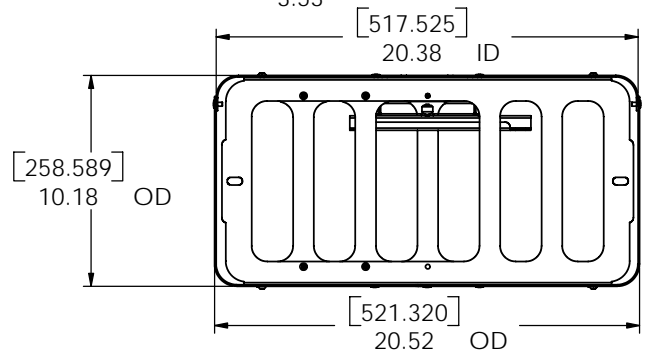
B

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 PG1A PROJECTOR GUARD,

SEE DWG. NO.
 B BRACKET ORDER # PG1A

1 2 3 4 5 6 7 8

NORCON

OF NEW MEXICO

Following a tradition of business in New Mexico since 1935



Section 116623 Article 2.8– GYMNASIUM EQUIPMENT by Fair Play

**MAIN GYMNASIUM (403),
BASKETBALL SCOREBOARD**

One (1) Model #BB-3620-4 Scoreboard #1 with Electronic Stat Panels

- LED Digits and Indicators
- 120 V – Single Phase Power
- 12”H Clock and Score Digits
- **One (1) Model PDI 1518**

One (1) Model #BB-3620-4 Scoreboard #2

- LED Digits and Indicators
- 120 V – Single Phase Power
- 12”H Clock and Score Digits
- **One (1) Model PDI -0918**
- **One (1) Model PL-1641**

Two (2) Model MP-73-0213 Wireless Controllers

- Multiple Scoreboard and Shot Timer Operation
- 1,500 foot outdoor and 500 foot indoor range
- Memory Circuit which Retains Information if Power is Lost
- Wireless Receivers

One (1) Model SP-70-0113 Controller

One (1) Model ST-1401-4 Shot Clock (Set of Two)

- 17”H x 20”L x 6”D
- Backstop or Wall Mounted
- Universal ST-1400 Control

Three (3) Model C1225 Carrying Cases for MP-72-0213/ SP-70-0113 Controller

Continued on Next Page

BB 3620 Scoreboard #1 Color: (Please Select)

BB 3620 Scoreboard #1 Trim Tape Color: (Please Select)

BB 3620 Scoreboard #2 Color: (Please Select)

BB 3620 Scoreboard #2 Trim Tape Color: (Please Select)

Shot Timer Clock Color: (Please Select)

Shot Timer Clock Trim Tape Color: (Please Select)

Stat Display PL-1641 Color: Black ONLY

Install Date: (Please Select) _____



FAIR-PLAY BASKETBALL SCOREBOARD Scoreboard #1

PDI - 1518 Pendant Sign (Non Illuminated)
Architect to provide high resolution graphic. Rendering to be produced for final approval before production.

Electronic 5 Player Stat Panel		Electronic 5 Player Stat Panel
---	--	---

Model: **BB-3620-4**
with Stat Panels

DIMENSIONS:

HEIGHT:	5'-6"	LENGTH:	9'-0"	DEPTH:	4"	WEIGHT:	121 lbs.
---------	-------	---------	-------	--------	----	---------	----------

STANDARD EQUIPMENT:

- Energy efficient LED designs
- Three distinct LED digit colors to visually organize critical game information
- Heavy-duty, vibrating horn (103 dB)
- Free Help Desk Support
- Free project design renderings
- Factory authorized national and local sales, service and installation
- Choose from 10 durable paint colors
- Choose from 15 popular vinyl trim colors
- Over 75 years of sports scoring experience
- Sport-specific control console inserts
- HB-800 data connection kit
- Choice of Fair-Play's scorekeeper approved control systems*
- Changeable scoreboard game captions*
- 5-year limited warranty
- ETL/CETL listed to UL standard
- Convenient built-in service points for easy-access
- Durable, corrosion resistant aluminum construction
- Complete, safe and durable display mounting system

OPTIONAL EQUIPMENT:

- Custom paint and vinyl trim colors
- Personalized vinyl home team name
- Illuminated and non-illuminated identification and sponsorship signage
- Custom, unique signage options
- Programmable electronic team name message centers*
- Mono- or full-color electronic message display with Fair-Play's exclusive ProLine control system
- Carrying case for scoreboard console
- Wireless data transmission (includes receiver and transmitter)
- Portable, battery-operated scoreboard control
- Integrated, second operator statistics control*
- Fully-integrated or stand-alone shot and game timers Plug-and-play clock, shot time and horn hand switches
- Illuminated backboard goal lights
- Scorer's table with built-in BB-1600-4 scoreboard
- Synchronized locker room game / time of day clocks
- Protective net



OPERATING TEMPERATURES:

Scoreboard display: -22° to 131° Fahrenheit (-30° to 55° Celsius)

Control console: 32° to 131° Fahrenheit (0° to 55° Celsius)

OTHER DIMENSIONS:

CAPTIONS (H" x W")		DIGIT SIZES (H")	
HOME	6" x 18"	Game Clock	12"
VISITOR	6" x 25"	Period	10"
PERIOD	4" x 17"	Personal Fouls	10"
BONUS	4" x 15"	Player Number	10"
POSS	3" x 9"	Team Fouls	10"
FOULS (Personal)	4" x 14"	Team Scores	12"
FOULS (Team)	4" x 14"		
PLAYER	4" x 17"		

ELECTRICAL	
Voltage	120 VAC
Hertz	60
Watts	151
Amps	2
Phase	1
Wiring	2-Wire + ground
Circuits Required	1
Safety Listing	ETL/CETL

Fair-Play offers 15 FREE standard trim tape colors



Fair-Play offers 12 FREE standard scoreboard colors. Custom colors available



Fair-Play by Trans-Lux Corporation

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FAIR-PLAY BASKETBALL SCOREBOARD Scoreboard # 2

PDI - 0918 Pendant Sign (Non Illuminated)
Architect to provide high resolution graphic.
Rendering will be produced for final approval before production.

PL - 1641
Player Line Up Panel
(Reversible)

PL - 1641
Player Line Up Panel
(Reversible)

Model: **BB-3620-4**

DIMENSIONS:

HEIGHT:	5'-6"	LENGTH:	9'-0"	DEPTH:	4"	WEIGHT:	121 lbs.
---------	-------	---------	-------	--------	----	---------	----------

STANDARD EQUIPMENT:

- Energy efficient LED designs
- Three distinct LED digit colors to visually organize critical game information
- Heavy-duty, vibrating horn (103 dB)
- Free Help Desk Support
- Free project design renderings
- Factory authorized national and local sales, service and installation
- Choose from 10 durable paint colors
- Choose from 15 popular vinyl trim colors
- Over 75 years of sports scoring experience
- Sport-specific control console inserts
- HB-800 data connection kit
- Choice of Fair-Play's scorekeeper approved control systems*
- Changeable scoreboard game captions*
- 5-year limited warranty
- ETL/CETL listed to UL standard
- Convenient built-in service points for easy-access
- Durable, corrosion resistant aluminum construction
- Complete, safe and durable display mounting system

OPTIONAL EQUIPMENT:

- Custom paint and vinyl trim colors
- Personalized vinyl home team name
- Illuminated and non-illuminated identification and sponsorship signage
- Custom, unique signage options
- Programmable electronic team name message centers*
- Mono- or full-color electronic message display with Fair-Play's exclusive ProLine control system
- Carrying case for scoreboard console
- Wireless data transmission (includes receiver and transmitter)
- Portable, battery-operated scoreboard control
- Integrated, second operator statistics control*
- Fully-integrated or stand-alone shot and game timers Plug-and-play clock, shot time and horn hand switches
- Illuminated backboard goal lights
- Scorer's table with built-in BB-1600-4 scoreboard
- Synchronized locker room game / time of day clocks
- Protective net



OPERATING TEMPERATURES:

Scoreboard display: -22° to 131° Fahrenheit (-30° to 55° Celsius)

Control console: 32° to 131° Fahrenheit (0° to 55° Celsius)

OTHER DIMENSIONS:

CAPTIONS (H" x W")		DIGIT SIZES (H")	
HOME	6" x 18"	Game Clock	12"
VISITOR	6" x 25"	Period	10"
PERIOD	4" x 17"	Personal Fouls	10"
BONUS	4" x 15"	Player Number	10"
POSS	3" x 9"	Team Fouls	10"
FOULS (Personal)	4" x 14"	Team Scores	12"
FOULS (Team)	4" x 14"		
PLAYER	4" x 17"		

ELECTRICAL	
Voltage	120 VAC
Hertz	60
Watts	151
Amps	2
Phase	1
Wiring	2-Wire + ground
Circuits Required	1
Safety Listing	ETL/CETL

Fair-Play offers 15 FREE standard trim tape colors

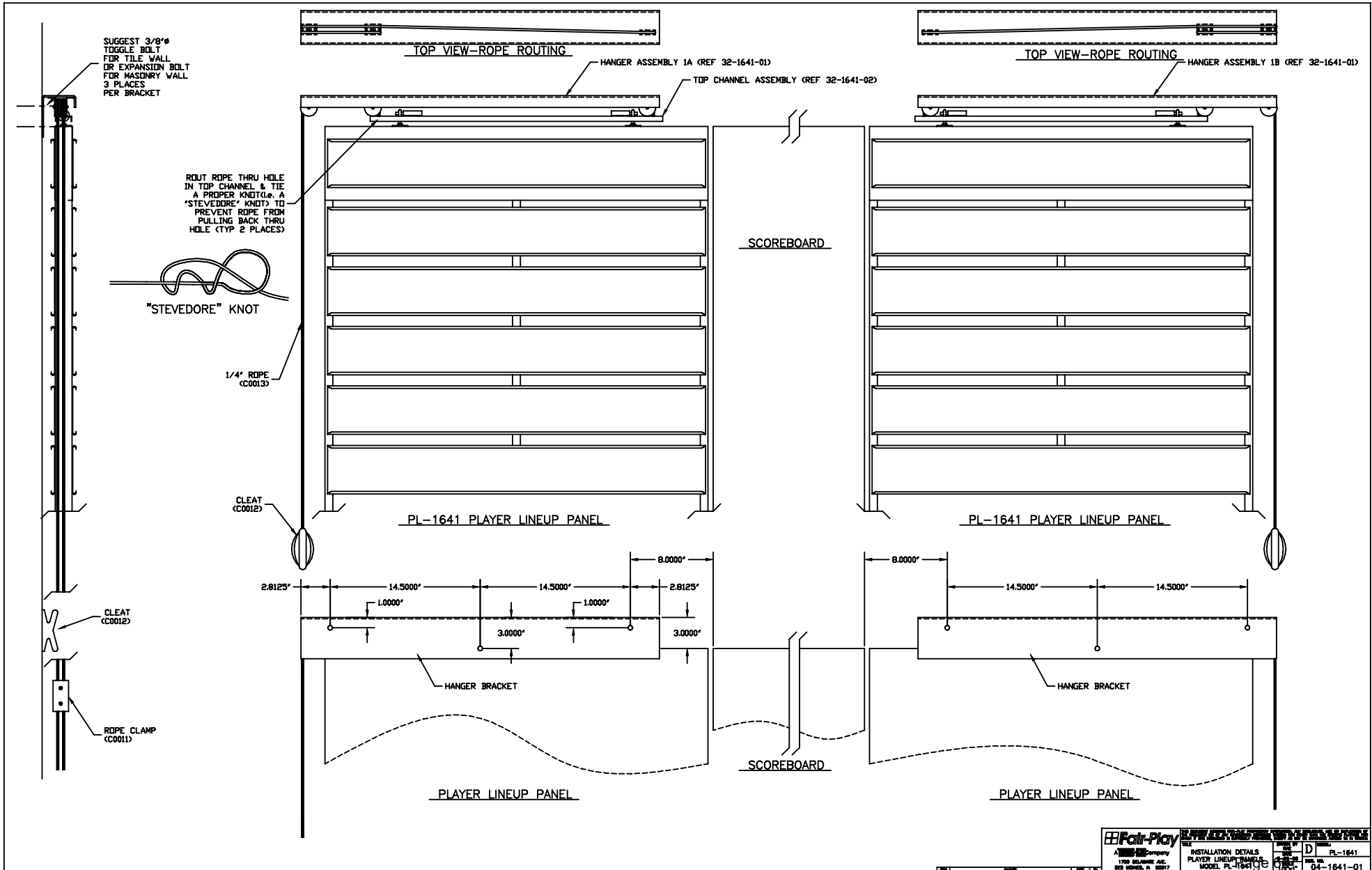


Fair-Play offers 12 FREE standard scoreboard colors. Custom colors available



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FAIR-PLAY SHOT TIMER



Model: **ST-1410-4**

DIMENSIONS:

HEIGHT:	1'5"	LENGTH:	1'8"	DEPTH:	6.5"	WEIGHT:	80 lbs.
---------	------	---------	------	--------	------	---------	---------

STANDARD EQUIPMENT:

- Energy efficient LED designs
- Three distinct LED digit colors to visually organize critical game information
- Heavy-duty, vibrating horn (103 dB)
- Free Help Desk Support
- Free project design renderings
- Factory authorized national and local sales, service and installation
- Choose from 10 durable paint colors
- Choose from 15 popular vinyl trim colors
- Over 75 years of sports scoring experience
- Sport-specific control console inserts
- HB-800 data connection kit
- Choice of Fair-Play's scorekeeper approved control systems*
- Changeable scoreboard game captions*
- 5-year limited warranty
- ETL/CETL listed to UL standard
- Convenient built-in service points for easy-access
- Durable, corrosion resistant aluminum construction
- Complete, safe and durable display mounting system

OPTIONAL EQUIPMENT:

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- Personalized vinyl home team name
- Illuminated and non-illuminated identification and sponsorship signage
- Custom, unique signage options
- Programmable electronic team name message centers*
- Mono- or full-color electronic message display with Fair-Play's exclusive ProLine control system
- Carrying case for scoreboard console
- Wireless data transmission (includes receiver and transmitter)
- Portable, battery-operated scoreboard control
- Integrated, second operator statistics control*
- Fully-integrated or stand-alone shot and game timers Plug-and-play clock, shot time and horn hand switches
- Illuminated backboard goal lights
- Scorer's table with built-in BB-1600-4 scoreboard
- Synchronized locker room game / time of day clocks
- Protective net



OPERATING TEMPERATURES:

Scoreboard display: -22° to 131° Fahrenheit (-30° to 55° Celsius)

Control console: 32° to 131° Fahrenheit (0° to 55° Celsius)

OTHER DIMENSIONS:

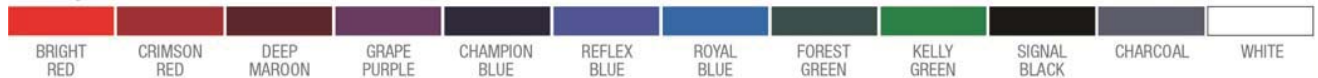
CAPTIONS (H" x W")		DIGIT SIZES (H")	
		Shot Clock	12"

ELECTRICAL	
Voltage	120 VAC
Hertz	60
Watts	30
Amps	0.25
Phase	1
Wiring	2-Wire + ground
Circuits Required	1
Safety Listing	ETL/CETL

Fair-Play offers 15 FREE standard trim tape colors



Fair-Play offers 12 FREE standard scoreboard colors. Custom colors available



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FAIR-PLAY SCOREBOARD ACCESSORY



MODEL: ST-1401-4

DIMENSIONS:

HEIGHT:	1'-9"	LENGTH:	1'-8"	DEPTH:	6.5"	WEIGHT:	188 lbs.
---------	-------	---------	-------	--------	------	---------	----------

OPERATING TEMPERATURES:

Scoreboard display: -22° to 131° Fahrenheit (-30° to 55° Celsius)

Control console: 32° to 131° Fahrenheit (0° to 55° Celsius)

OTHER DIMENSIONS:

DIGIT SIZE	
SHOT CLOCK	12"

ELECTRICAL	
VOLTAGE	120 VAC
HERTZ	60
WATTS	36
AMPS	0.3
PHASE	1
WIRING	2-Wire + ground
CIRCUITS REQUIRED	1
SAFETY LISTING	ETL/CETL

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Paint & Tape Colors



SCOREBOARD	C	M	Y	K	R	G	B	PANTONE	HEXIDECIMAL
Deep Maroon	49	99	84	25	119	34	87	209C	77222f
Kelly Green	93	13	81	0	0	143	94	356C	008f5e
Royal Blue	100	40	0	0	0	125	197	300C	007dc5
Forest Green	85	49	60	36	34	82	80	5477C	225250
Signal Black	78	67	64	95	0	0	2	0	000002
Charcoal	42	8	0	40	93	135	161	5415C	5f7389
White	0	0	0	0	0	0	0	0	0
Grape Purple	73	87	35	9	96	63	110	525C	603f6e
Reflex Blue	100	95	25	18	144	149	214	ReflexBlueC	9095d6
Champion Blue	97	88	45	26	36	50	86	289C	243256
Crimson Red	37	100	92	7	160	39	50	194C	a02732
Bright Red	1	100	95	0	254	155	160	485C	fe9BA0
TRIM TAPE	C	M	Y	K	R	G	B	PANTONE	HEXIDECIMAL
Black	81	69	69	60	34	43	43	0	000002
White	0	0	0	0	0	0	0	0	0
Bright Yellow	4	4	82	0	249	229	76	108C	f9e54c
Sunflower	1	27	95	0	250	189	36	123C	fabd24
Bright Orange	0	87	96	0	239	73	39	151C	ef4927
Tomato Red	1	100	95	0	234	29	41	485C	ea1d29
Cardinal Red	23	100	97	0	196	38	46	200C	c4262e
Burgandy	44	99	97	0	160	47	52	209C	a02f34
Purple	77	94	21	1	97	56	127	525C	61387f
Light Navy	99	92	18	2	43	60	131	282C	2b3c83
Intense Blue	100	69	0	0	0	92	171	300C	005cab
Forest Green	94	55	92	32	34	82	80	567C	104e34
Silver*	14	10	11	0	241	245	244	877C	efeed
Satin Gold*	32	42	81	8	216	206	169	872C	efac35
Med Gray	24	27	23	0	194	179	180	428C	c2b3b4

*Metallic Colors



MP-70/50 Series Scoreboard Controller User Guide



Document No. 98-0002-29

Revision Date: 08-01-12

Effective with firmware ver. 3.05

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

The term "IC" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure

To comply with FCC RF exposure requirements for mobile transmitting devices, this transmitter should only be used or installed at locations where there is at least 20 cm separation distance between the antenna and all persons.

PRIOR APPROVALS

The following manufacturers have properly submitted their request to be allowed to bid substitute equipment and services for the referenced project. Based on information submitted, and our knowledge of and previous experience with the companies and products represented, we feel that the following are capable of providing products and services equivalent to those specified.

EQUIPMENT

B-1 & 2
P-1 thru P-4

SUBSTITUTE

Raypak
Taco

SPECIFICATIONS

1. Section 23 05 93:
 - a. Part 1.1.C. Replace the first sentence with “The TAB Agency will be selected and paid for by the owner.”

END OF ADDENDUM