1 ELECTRICAL COMMUNICATION FLOOR PLAN - LEVEL 1 - UNIT A 1/8" = 1'-0"

### ELECTRICAL COMMUNICATIONS GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND STANDARD BACKBOXES FOR SYSTEMS SHOWN ON THIS DRAWING IN BASE PROPOSAL.

2. IN ANY EXPOSED AREAS SUCH AS GYMNASIUMS, SHOPS, FIELD HOUSES, JANITORS CLOSETS, OR MECHANICAL/ELECTRICAL ROOMS ALL LOW VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.

3. ALL COMMUNICATIONS CABLING SHALL RUN DOWN THE CORRIDORS AND BRANCH OFF TO EACH CLASSROOM. TRUNKING SHALL BE RAN PRIMARILY PERPENDICULAR TO BUILDING WALLS AND SHALL NOT BE RAN OVER CLASSROOMS.

4. WHERE NO FINISHED CEILINGS ARE SCHEDULED ALL DEVICES, CONDUIT, AND BACKBOXES SHALL BE INSTALLED UP AGAINST BOTTOM OF DECK AND SHALL NOT PROTRUDE BELOW BOTTOM OF STEEL. THE ARCHITECT SHALL APPROVE ALL ROUTING OF ALL EXPOSED ROUGH-INS PRIOR TO PLACEMENT.

5. ANY SIGNAL, OUTLET OR OTHER DEVICE MOUNTED ON A COLUMN, PILASTER, OR SIMILAR WALL OFFSET SHALL BE CENTERED.

6. COORDINATE MOUNTING HEIGHT OF DEVICES ABOVE MILLWORK WITH ARCHITECTURAL PLANS.

FURNITURE WITH ARCHITECT AND OWNER.

7. VERIFY MARKERBOARD, TACKBOARD, AND DOOR SWING LOCATIONS WITH

ARCHITECTURAL PLANS - DO NOT INSTALL DEVICES IN THESE AREAS.

8. COORDINATE EXACT LOCATION OF ALL DEVICES, ETC. INSTALLED IN MOVEABLE

9. CONFIRM ALL COMMUNICATIONS DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. THE ARCHITECT RESERVES THE RIGHT TO LOCATE DEVICES ANYWHERE

WITHIN EACH ROOM AND DETERMINE SURFACE RACEWAY ROUTING IF APPLICABLE.

10. COORDINATE EXACT MECHANICAL EQUIPMENT LOCATION AND TYPE WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR. DO NOT INSTALL CONDUIT WITHIN 3'-0" OF ANY HVAC DEVICE UNLESS THE DEVICE SERVES THAT UNIT.

11. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS

AND CONTROL RELAYS WHERE REQUIRED. MECHANICAL CONTRACTOR SHALL INSTALL HOUSING AND SAMPLE TUBES IN DUCT. FIRE ALARM CONTRACTOR TO PROVIDE LOW VOLTAGE CONNECTION TO FIRE ALARM.

12. FIRE ALARM CONTRACTOR SHALL VERIFY CIRCUIT STYLE, QUANTITY, AND

LOCATIONS OF DEVICES TO MEET ALL APPLICABLE CODES, LAWS, AND ALL

13. REFER TO SPECIFICATION DIVISION 27 AND 28 FOR ADDITIONAL INFORMATION.

REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION FOR INCLUSION IN

### ELECTRICAL COMMUNICATION PLAN NOTES

- 1) NEW LOCATION OF OWNER PROVIDED GYM IDF RACK. FEED RACK WITH NEW FIBER FROM NEW MDF LOCATION.
- 2 MOUNT DEVICE AT STRUCTURE HEIGHT.

BASE PROPOSAL.

- PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR CAMERA CABLING.
- PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR WIRELESS ACCESS POINT CABLING.
- 5 PROVIDE NEW DATA DROPS AT EXISTING LOCATIONS.

IN ANY AREAS WITH OPEN STRUCTURE, CONTRACTOR SHALL PROVIDE 1" CONDUIT FROM EACH DEVICE OUTLET LOCATION, EXTENDED AT STRUCTURE AND STUBBED INTO ACESSIBLE CORRIDOR SPACE ABOVE CEILING.

IN ANY AREAS WITH OPEN STRUCTURE, ALL LOW VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.

THE EXISTING FIRE ALARM SYSTEM SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO KEEP STUDENT OCCUPIED AREAS OPERATIONAL AS REQUIRED BY THE PROJECT PHASING. AT THE CLOSE OF THE PROJECT, THE ENTIRE EXISTING FIRE ALARM SYSTEM INCLUDING THE PANEL AND ALL DEVICES AND CABLING SHALL BE REMOVED.

THE EXISTING INTERCOM SYSTEM SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO REMAIN IN PLACE AND OPERATIONAL AS REQUIRED BY THE PROJECT PHASING. AT THE CLOSE OF THE PROJECT, THE ENTIRE INTERCOM SYSTEM INCLUDING THE HEADEND AND ALL DEVICES AND CABLING SHALL BE REMOVED.

THE EXISTING NETWORK SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO REMAIN IN PLACE AND OPERATIONAL AS REQUIRED BY THE PROJECT PHASING. CONTRACTOR SHALL PROVIDE TEMPORARY FIBER BACKBONE BETWEEN CLOSETS AS REQUIRED. AT THE CLOSE OF THE PROJECT, THE EXISTING NETWORK SYSTEM INCLUDING ALL DEVICES AND CABLING SHALL BE REMOVED.



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FLOOR PLAN - LEVEL 7
- UNIT A
ET201

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ELECTRICAL COMM.

February 27, 2019

DATE:

**REVISIONS**:

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- 1) PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR CAMERA
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Suite 1800

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STUBBED INTO ACESSIBLE CORRIDOR SPACE ABOVE

VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.

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DATE: February 27, 2019 ELECTRICAL COMM. FLOOR PLAN - LEVEL ' - UNIT B

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MATCHLINE

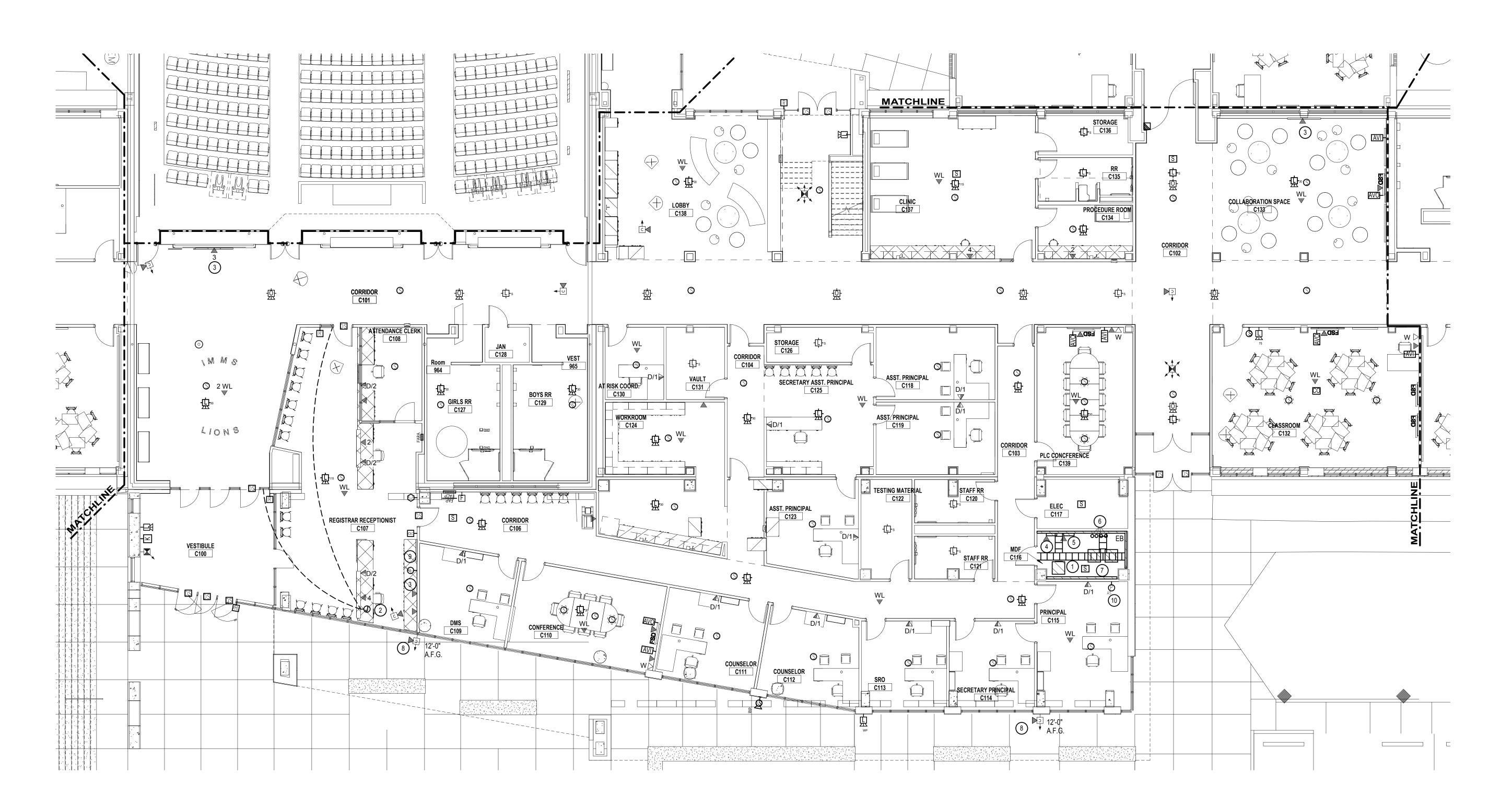
1 ELECTRICAL COMMUNICATION FLOOR PLAN - LEVEL 1 - UNIT B 1/8" = 1'-0"

STAIR B-S1

A.F.G.

MATCHLINE

- 1 INTERCOM RACK.
- 2 JUNCTION BOX FOR DOOR RELEASE HARDWARE.
- DATA FOR DIGITAL SIGNAGE. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.
- 4 SECURITY PANEL.
- 5 CARD ACCESS PANEL.
- PROVIDE TWO 4" UNDERGROUND CONDUITS FOR NETWORK SERVICE ENTRY, ONE 2" UNDERGROUND CONDUIT FOR SPARE, AND ONE 1-1/2" CONDUIT TO MARQUEE FOR COMMUNICATIONS CABLING SEE SITE PLAN.
- 7 MDF RACKS.
- PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR CAMERA CABLING.
- 9 DESKTOP INTERCOM PAGING MIC.
- (10) INTERCOM ADMIN. SET WALL MOUNTED @ 44" A.F.F.



1 ELECTRICAL COMMUNICATION FLOOR PLAN - LEVEL 1 - UNIT C 1/8" = 1'-0"

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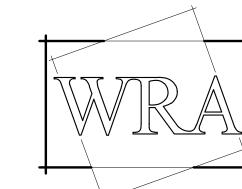
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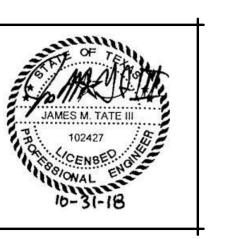
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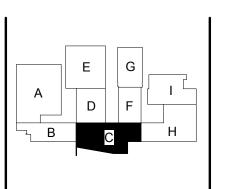
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IMMS Addition/Renova

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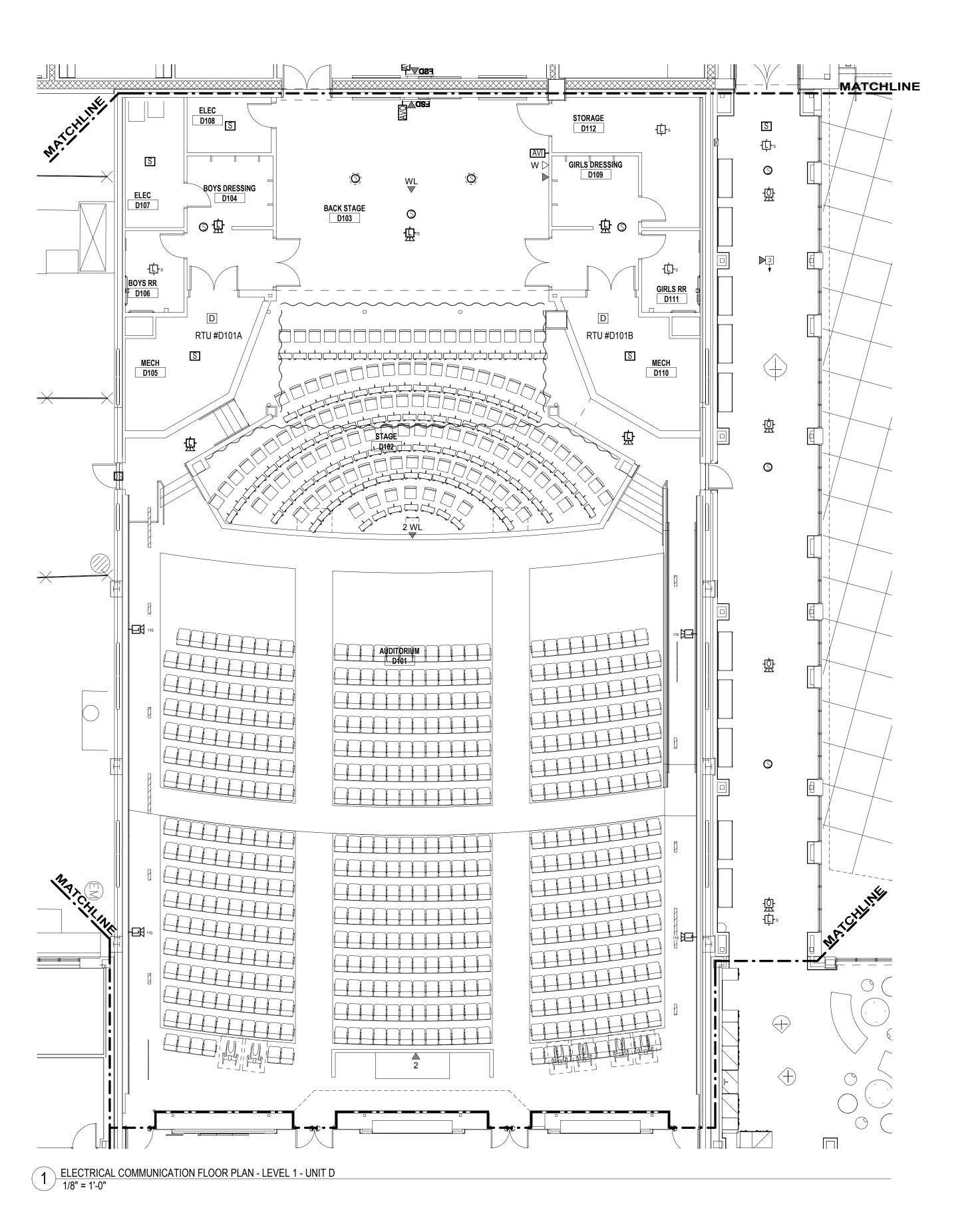
JOB NO. 1741
DATE: February 27, 2019
ELECTRICAL COMM.

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LOOR PLAN - LEVEL '

- UNIT C

ET203



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DATA CONTRACTOR TO RECABLE ALL DATA DROPS BACK TO NEW MDF/IDF RACK IN THIS AREA.

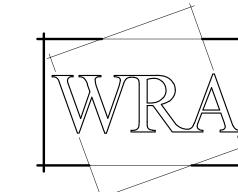
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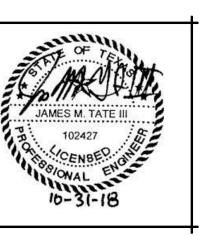
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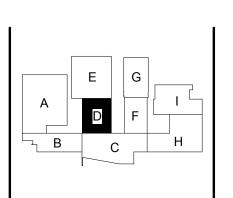
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ELECTRICAL COMM.
FLOOR PLAN - LEVEL

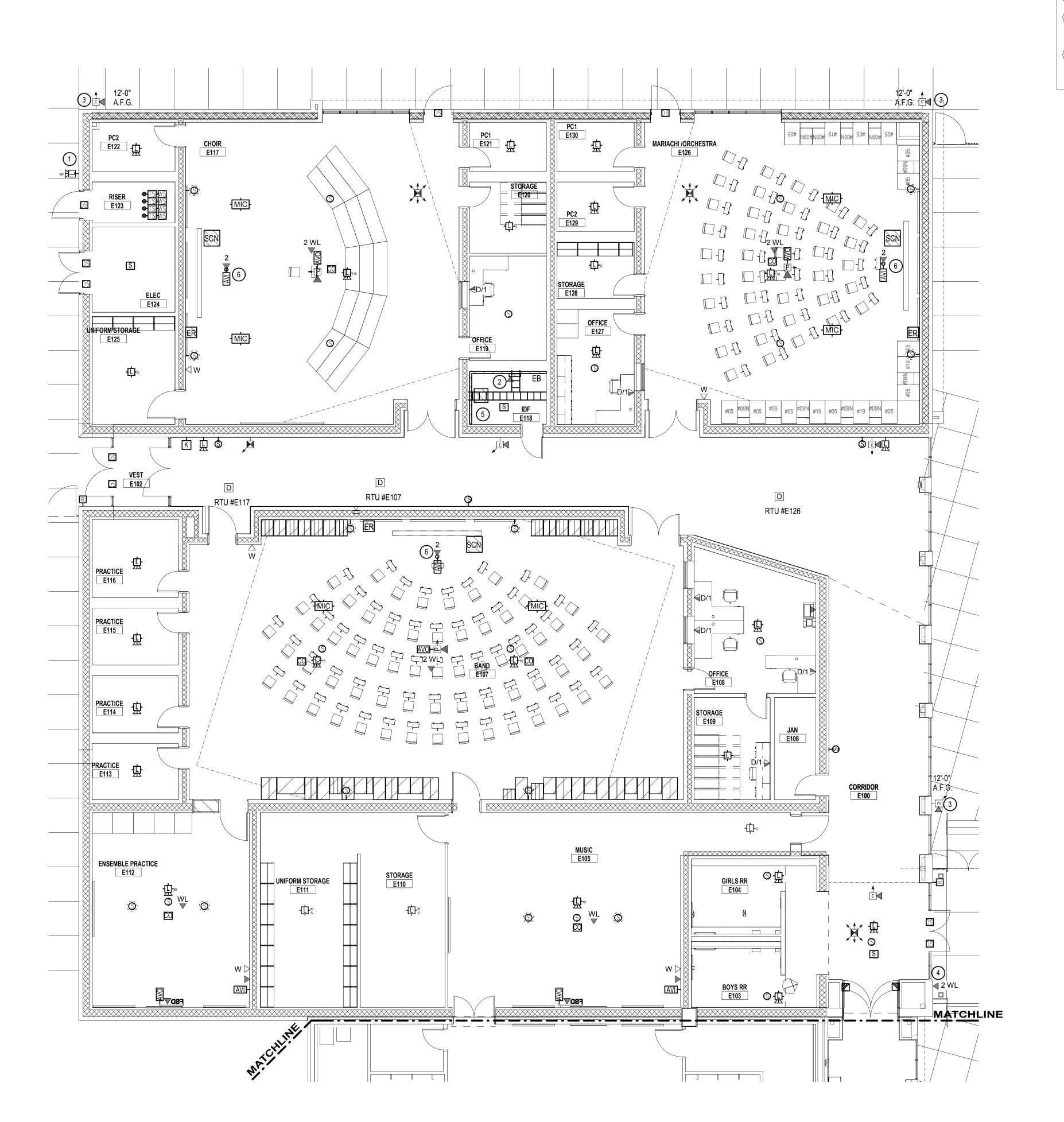
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1 ELECTRICAL COMMUNICATION FLOOR PLAN - LEVEL 1 - UNIT E 1/8" = 1'-0"

- (1) WATERFLOW ALARM SPEAKER STROBE.
- (2) CARD ACCESS PANEL.
- (3) PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR CAMERA
- (4) PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR WIRELESS ACCESS POINT CABLING.
- (5) IDF RACK.
- (6) EXTEND 1-1/4" CONDUIT FROM ACCESSIBLE SPACE ABOVE DROP CEILING, DOWN INSIDE WALL, AND UNDER SLAB TO FLOOR BOX. PROVIDE POWER AND DATA TO FLOOR BOX THROUGH SEPARATE CONDUITS UNDER SLAB.
- AMPLIFIER ENCLOSURE ABOVE CEILING.

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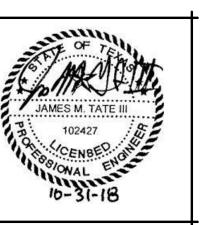
THE EXISTING FIRE ALARM SYSTEM SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO KEEP STUDENT OCCUPIED AREAS OPERATIONAL AS REQUIRED BY THE PROJECT PHASING. AT THE CLOSE OF THE PROJECT, THE ENTIRE EXISTING FIRE ALARM SYSTEM INCLUDING THE PANEL AND ALL DEVICES AND CABLING SHALL BE REMOVED.

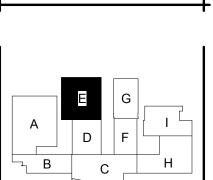
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THE EXISTING NETWORK SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO REMAIN IN PLACE AND OPERATIONAL AS REQUIRED BY THE PROJECT PHASING, CONTRACTOR SHALL PROVIDE TEMPORARY FIBER BACKBONE BETWEEN CLOSETS AS REQUIRED. AT THE CLOSE OF THE PROJECT, THE EXISTING NETWORK SYSTEM INCLUDING ALL DEVICES AND CABLING SHALL BE REMOVED.



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DATE: February 27, 2019

> ELECTRICAL COMM. FLOOR PLAN - LEVEL ' - UNIT E ET205

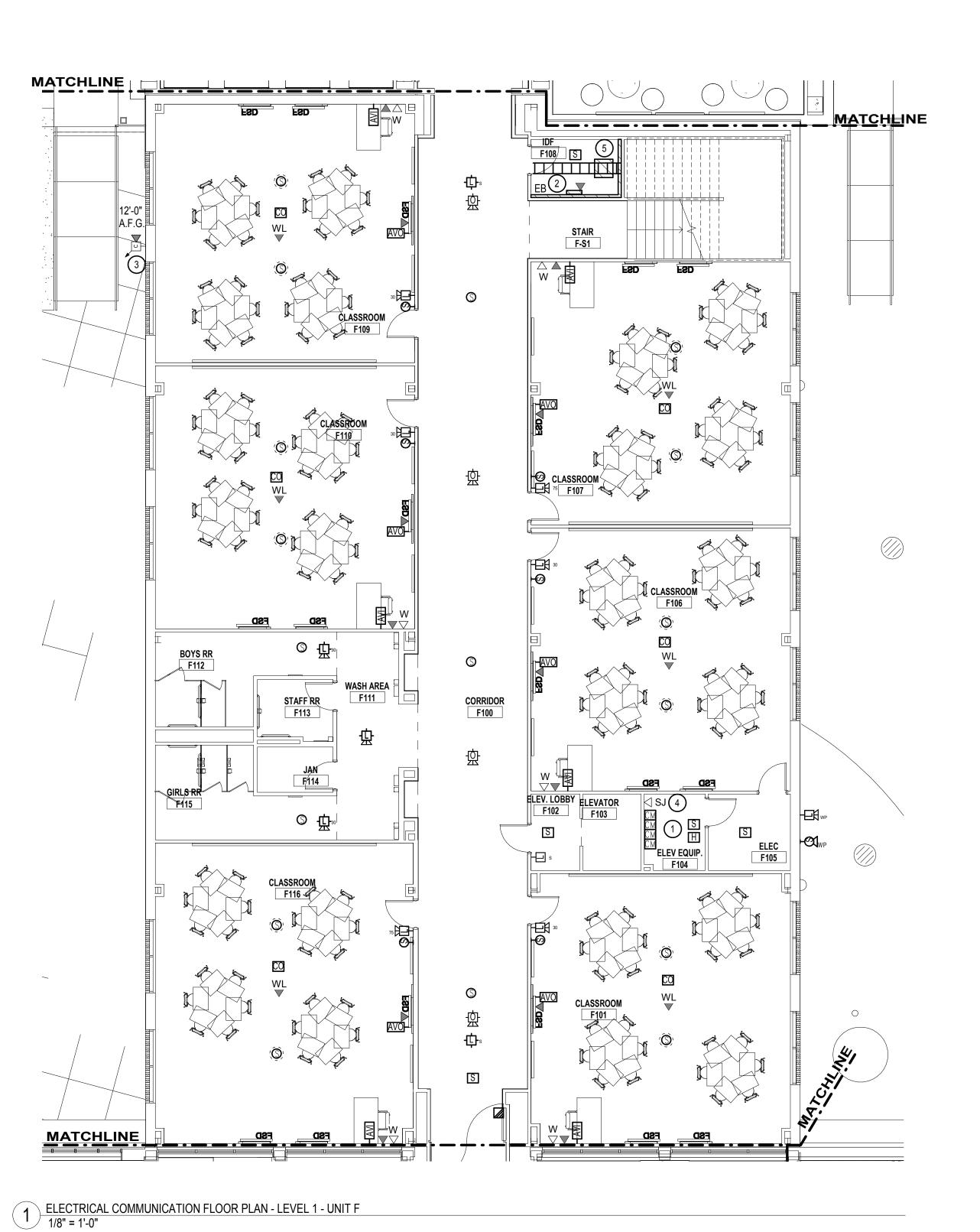
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CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING

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SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE



GENERAL NOTES

CONTRACTOR SHALL PROVIDE ALL CONDUIT AND

**ELECTRICAL COMMUNICATIONS** 

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND STANDARD BACKBOXES FOR SYSTEMS SHOWN ON THIS DRAWING IN BASE PROPOSAL.

2. IN ANY EXPOSED AREAS SUCH AS GYMNASIUMS, SHOPS, FIELD HOUSES, JANITORS CLOSETS, OR MECHANICAL/ELECTRICAL ROOMS ALL LOW VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.

3. ALL COMMUNICATIONS CABLING SHALL RUN DOWN THE CORRIDORS AND BRANCH OFF TO EACH CLASSROOM. TRUNKING SHALL BE RAN PRIMARILY PERPENDICULAR TO BUILDING WALLS AND SHALL NOT BE RAN OVER CLASSROOMS.

4. WHERE NO FINISHED CEILINGS ARE SCHEDULED ALL DEVICES, CONDUIT, AND BACKBOXES SHALL BE INSTALLED UP AGAINST BOTTOM OF DECK AND SHALL NOT PROTRUDE BELOW BOTTOM OF STEEL. THE ARCHITECT SHALL APPROVE ALL ROUTING OF ALL EXPOSED ROUGH-INS PRIOR TO PLACEMENT.

5. ANY SIGNAL, OUTLET OR OTHER DEVICE MOUNTED ON A COLUMN, PILASTER, OR SIMILAR WALL OFFSET SHALL BE CENTERED.

6. COORDINATE MOUNTING HEIGHT OF DEVICES ABOVE MILLWORK WITH ARCHITECTURAL PLANS.

7. VERIFY MARKERBOARD, TACKBOARD, AND DOOR SWING LOCATIONS WITH ARCHITECTURAL PLANS - DO NOT INSTALL DEVICES IN THESE AREAS.

8. COORDINATE EXACT LOCATION OF ALL DEVICES, ETC. INSTALLED IN MOVEABLE FURNITURE WITH ARCHITECT AND OWNER.

9. CONFIRM ALL COMMUNICATIONS DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. THE ARCHITECT RESERVES THE RIGHT TO LOCATE DEVICES ANYWHERE WITHIN EACH ROOM AND DETERMINE SURFACE RACEWAY ROUTING IF APPLICABLE.

10. COORDINATE EXACT MECHANICAL EQUIPMENT LOCATION AND TYPE WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR. DO NOT INSTALL CONDUIT WITHIN 3'-0" OF ANY HVAC DEVICE UNLESS THE DEVICE SERVES THAT UNIT.

11. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS AND CONTROL RELAYS WHERE REQUIRED. MECHANICAL CONTRACTOR SHALL INSTALL HOUSING AND SAMPLE TUBES IN DUCT. FIRE ALARM CONTRACTOR TO PROVIDE LOW VOLTAGE CONNECTION TO FIRE ALARM.

12. FIRE ALARM CONTRACTOR SHALL VERIFY CIRCUIT STYLE, QUANTITY, AND LOCATIONS OF DEVICES TO MEET ALL APPLICABLE CODES, LAWS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION FOR INCLUSION IN BASE PROPOSAL.

13. REFER TO SPECIFICATION DIVISION 27 AND 28 FOR ADDITIONAL INFORMATION.

### ELECTRICAL COMMUNICATION PLAN NOTES

- PROVIDE FIRE ALARM CONTROL MODULES FOR ELEVATOR PRIMARY RECALL, SECONDARY RECALL, FIREFIGHTER WARNING AND POWER SHUNT-TRIP FUNCTION.
- 2 CARD ACCESS PANEL.
- PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR CAMERA CABLING.
- 4 SERVICE JACK FOR ELEVATOR EMERGENCY PHONE.
- 5 IDF RACK.

IN ANY AREAS WITH OPEN STRUCTURE, CONTRACTOR SHALL PROVIDE 1" CONDUIT FROM EACH DEVICE OUTLET LOCATION, EXTENDED AT STRUCTURE AND STUBBED INTO ACESSIBLE CORRIDOR SPACE ABOVE CEILING.

IN ANY AREAS WITH OPEN STRUCTURE, ALL LOW VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.

THE EXISTING FIRE ALARM SYSTEM SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO KEEP STUDENT OCCUPIED AREAS OPERATIONAL AS REQUIRED BY THE PROJECT PHASING. AT THE CLOSE OF THE PROJECT, THE ENTIRE EXISTING FIRE ALARM SYSTEM INCLUDING THE PANEL AND ALL DEVICES AND CABLING SHALL BE REMOVED.

THE EXISTING INTERCOM SYSTEM SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO REMAIN IN PLACE AND OPERATIONAL AS REQUIRED BY THE PROJECT PHASING. AT THE CLOSE OF THE PROJECT, THE ENTIRE INTERCOM SYSTEM INCLUDING THE HEADEND AND ALL DEVICES AND CABLING SHALL BE REMOVED.

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SYSTEM.

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NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING

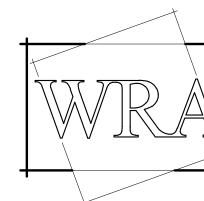
ELECTRICAL COMM.
FLOOR PLAN - LEVEL 1
- UNIT F
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**REVISIONS**:

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Suite 1800

- CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR CAMERA
- ACCESS POINT CABLING.

# 12-0" A.F.G. STORAGE G106 -**1**30 S 12'-0" A.F.G. <del>╞╫╝╘╂╝╘╟╝╒╠</del> STAIR G-S1 0 MATCHLINE

1 ELECTRICAL COMMUNICATION FLOOR PLAN - LEVEL 1 - UNIT G
1/8" = 1'-0"

- PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED
- PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR WIRELESS

#### **ELECTRICAL COMMUNICATIONS GENERAL NOTES**

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2. IN ANY EXPOSED AREAS SUCH AS GYMNASIUMS, SHOPS, FIELD HOUSES, JANITORS CLOSETS, OR MECHANICAL/ELECTRICAL ROOMS ALL LOW VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.

3. ALL COMMUNICATIONS CABLING SHALL RUN DOWN THE CORRIDORS AND BRANCH OFF TO EACH CLASSROOM. TRUNKING SHALL BE RAN PRIMARILY PERPENDICULAR TO BUILDING WALLS AND SHALL NOT BE RAN OVER CLASSROOMS.

4. WHERE NO FINISHED CEILINGS ARE SCHEDULED ALL DEVICES, CONDUIT, AND BACKBOXES SHALL BE INSTALLED UP AGAINST BOTTOM OF DECK AND SHALL NOT PROTRUDE BELOW BOTTOM OF STEEL. THE ARCHITECT SHALL APPROVE ALL ROUTING OF ALL EXPOSED ROUGH-INS PRIOR TO PLACEMENT.

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6. COORDINATE MOUNTING HEIGHT OF DEVICES ABOVE MILLWORK WITH ARCHITECTURAL PLANS.

7. VERIFY MARKERBOARD, TACKBOARD, AND DOOR SWING LOCATIONS WITH

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FURNITURE WITH ARCHITECT AND OWNER.

VOLTAGE CONNECTION TO FIRE ALARM.

9. CONFIRM ALL COMMUNICATIONS DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. THE ARCHITECT RESERVES THE RIGHT TO LOCATE DEVICES ANYWHERE

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12. FIRE ALARM CONTRACTOR SHALL VERIFY CIRCUIT STYLE, QUANTITY, AND LOCATIONS OF DEVICES TO MEET ALL APPLICABLE CODES, LAWS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION FOR INCLUSION IN BASE PROPOSAL.

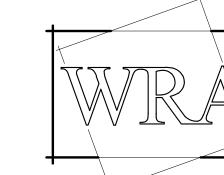
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IN ANY AREAS WITH OPEN STRUCTURE, ALL LOW VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.

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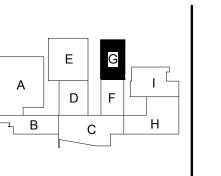
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DATE: February 27, 2019 ELECTRICAL COMM.

FLOOR PLAN - LEVEL

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**REVISIONS:** 

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1 ELECTRICAL COMMUNICATION FLOOR PLAN - LEVEL 1 - UNIT H

**□→ ⑤** 

- (2) PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR CAMERA
- (3) PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR WIRELESS ACCESS POINT CABLING.
- 4 CARD ACCESS PANEL.
- (5) DATA ABOVE CEILING FOR FUTURE CAMERA.
- 6 DATA FOR FUTURE DISPLAY LOCATION. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.

### **ELECTRICAL COMMUNICATIONS**

- 2. IN ANY EXPOSED AREAS SUCH AS GYMNASIUMS, SHOPS, FIELD HOUSES, JANITORS CLOSETS, OR MECHANICAL/ELECTRICAL ROOMS ALL LOW VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.
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- 5. ANY SIGNAL, OUTLET OR OTHER DEVICE MOUNTED ON A COLUMN, PILASTER, OR SIMILAR WALL OFFSET SHALL BE CENTERED.
- ARCHITECTURAL PLANS.
- 7. VERIFY MARKERBOARD, TACKBOARD, AND DOOR SWING LOCATIONS WITH
- ARCHITECTURAL PLANS DO NOT INSTALL DEVICES IN THESE AREAS.
- FURNITURE WITH ARCHITECT AND OWNER.
- 9. CONFIRM ALL COMMUNICATIONS DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. THE ARCHITECT RESERVES THE RIGHT TO LOCATE DEVICES ANYWHERE WITHIN EACH ROOM AND DETERMINE SURFACE RACEWAY ROUTING IF APPLICABLE.
- 10. COORDINATE EXACT MECHANICAL EQUIPMENT LOCATION AND TYPE WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR. DO NOT INSTALL CONDUIT WITHIN 3'-0" OF ANY HVAC DEVICE UNLESS THE DEVICE SERVES THAT UNIT.
- AND CONTROL RELAYS WHERE REQUIRED. MECHANICAL CONTRACTOR SHALL INSTALL HOUSING AND SAMPLE TUBES IN DUCT. FIRE ALARM CONTRACTOR TO PROVIDE LOW VOLTAGE CONNECTION TO FIRE ALARM.
- 12. FIRE ALARM CONTRACTOR SHALL VERIFY CIRCUIT STYLE, QUANTITY, AND LOCATIONS OF DEVICES TO MEET ALL APPLICABLE CODES, LAWS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION FOR INCLUSION IN BASE PROPOSAL.
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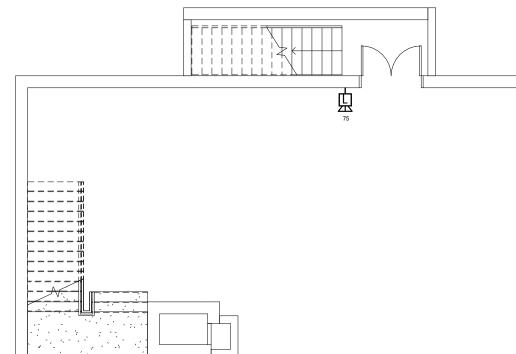
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THE EXISTING FIRE ALARM SYSTEM SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO KEEP STUDENT OCCUPIED PHASING. AT THE CLOSE OF THE PROJECT, THE ENTIRE EXISTING FIRE ALARM SYSTEM INCLUDING THE PANEL AND ALL DEVICES AND CABLING SHALL BE REMOVED.

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**GENERAL NOTES** 

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND STANDARD BACKBOXES FOR SYSTEMS SHOWN ON THIS DRAWING IN BASE PROPOSAL.

4. WHERE NO FINISHED CEILINGS ARE SCHEDULED ALL DEVICES, CONDUIT, AND

6. COORDINATE MOUNTING HEIGHT OF DEVICES ABOVE MILLWORK WITH

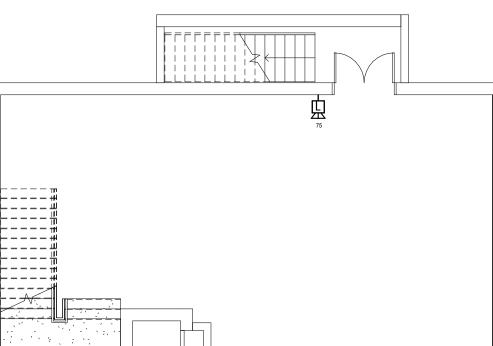
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11. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS

IN ANY AREAS WITH OPEN STRUCTURE, CONTRACTOR

SHALL BE REMOVED.

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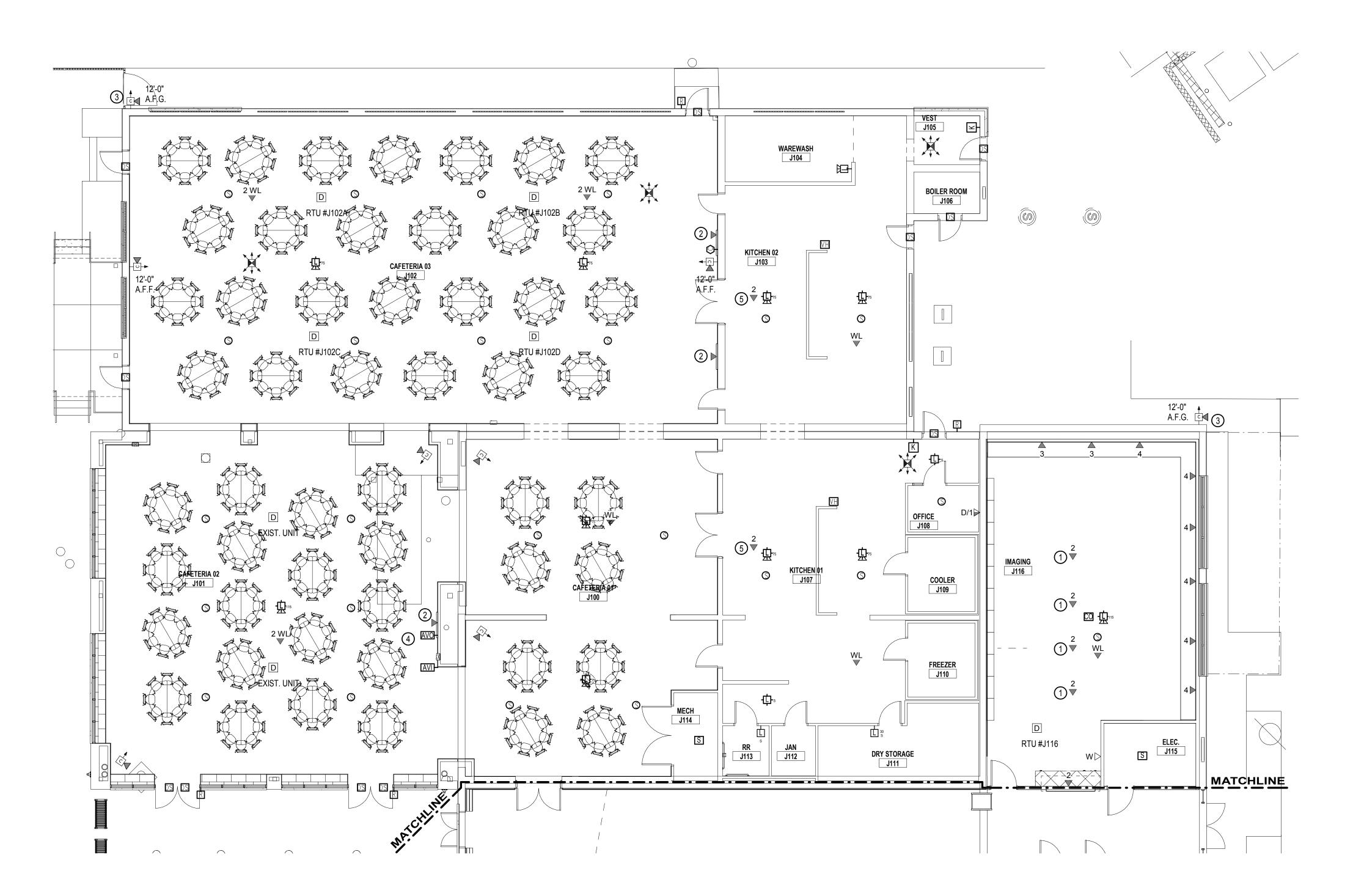
2 ELECTRICAL COMMUNICATION BASEMENT FLOOR PLAN 1/8" = 1'-0"

**REVISIONS:** 

DATE: February 27, 2019

ELECTRICAL COMM. LOOR PLAN - LEVEL ' - UNIT H

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1 ELECTRICAL COMMUNICATION FLOOR PLAN - LEVEL 1 - UNIT I 1/8" = 1'-0"

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13. REFER TO SPECIFICATION DIVISION 27 AND 28 FOR ADDITIONAL INFORMATION.

### PLAN NOTES

- RACEWAY AND STUB UP IN MILLWORK AS REQUIRED. COORDINATE WITH ELECTRICAL SHEET FOR RACEWAY INFORMATION AND LOCATIONS.
- PROVIDE WEATHERPROOF SINGLE GANG JUNCTION BOX WITH 1" RIGID THREADED CONDUIT STUBBED INTO ACCESSIBLE ATTIC SPACE FOR EXTERIOR CAMERA
- (4) PROVIDE AUDIO CABLING FROM SIGNAGE LOCATION TO EXISTING LOCAL SOUND SYSTEM AND CONNECT TO INPUT ON MIXER.
- (5) EXISTING P.O.S. REUSE EXISTING CONDUIT, FIELD VERIFY EXACT DATA LOCATIONS.

EXISTING DATA LOCATIONS IN THIS AREA TO REMAIN. DATA CONTRACTOR TO RECABLE ALL DATA DROPS BACK TO NEW MDF/IDF RACK IN THIS AREA.

SHALL PROVIDE 1" CONDUIT FROM EACH DEVICE OUTLET LOCATION, EXTENDED AT STRUCTURE AND

IN ANY AREAS WITH OPEN STRUCTURE, ALL LOW VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.

ALL DEVICES AND CABLING SHALL BE REMOVED.

THE EXISTING INTERCOM SYSTEM SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO REMAIN IN PLACE AND OPERATIONAL AS REQUIRED BY THE PROJECT PHASING. AT THE CLOSE OF THE PROJECT, THE ENTIRE INTERCOM SYSTEM INCLUDING THE HEADEND AND ALL DEVICES AND CABLING

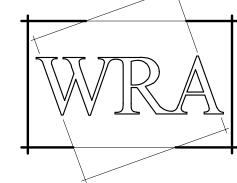
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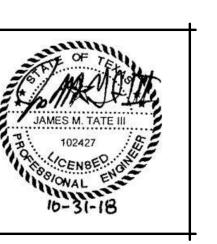
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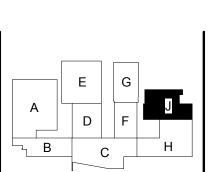
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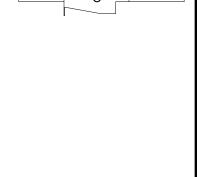
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### ELECTRICAL COMMUNICATION

- (1) EXTEND CABLING FROM ATTIC SPACE, DOWN WALL THROUGH SURFACE MOUNTED
- 2 DATA FOR DIGITAL SIGNAGE. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.

IN ANY AREAS WITH OPEN STRUCTURE, CONTRACTOR STUBBED INTO ACESSIBLE CORRIDOR SPACE ABOVE

THE EXISTING FIRE ALARM SYSTEM SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO KEEP STUDENT OCCUPIED AREAS OPERATIONAL AS REQUIRED BY THE PROJECT PHASING. AT THE CLOSE OF THE PROJECT, THE ENTIRE EXISTING FIRE ALARM SYSTEM INCLUDING THE PANEL AND

SHALL BE REMOVED.



DATE:

ELECTRICAL COMM. FLOOR PLAN - LEVEL ' - UNIT I

February 27, 2019

**REVISIONS**:

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(1) DATA ABOVE CEILING FOR FUTURE CAMERA.

## ENRICHMENT ROOM Ѿ₃Ѿ ☆ ◎ 党∳७ REFLECTION ROOM REFLECTION ROOM

**ELECTRICAL COMMUNICATIONS GENERAL NOTES** 

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND STANDARD BACKBOXES FOR SYSTEMS SHOWN ON THIS DRAWING IN BASE PROPOSAL.

2. IN ANY EXPOSED AREAS SUCH AS GYMNASIUMS, SHOPS, FIELD HOUSES, JANITORS CLOSETS, OR MECHANICAL/ELECTRICAL ROOMS ALL LOW VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.

3. ALL COMMUNICATIONS CABLING SHALL RUN DOWN THE CORRIDORS AND BRANCH OFF TO EACH CLASSROOM. TRUNKING SHALL BE RAN PRIMARILY PERPENDICULAR TO BUILDING WALLS AND SHALL NOT BE RAN OVER CLASSROOMS.

4. WHERE NO FINISHED CEILINGS ARE SCHEDULED ALL DEVICES, CONDUIT, AND BACKBOXES SHALL BE INSTALLED UP AGAINST BOTTOM OF DECK AND SHALL NOT PROTRUDE BELOW BOTTOM OF STEEL. THE ARCHITECT SHALL APPROVE ALL ROUTING OF ALL EXPOSED ROUGH-INS PRIOR TO PLACEMENT.

5. ANY SIGNAL, OUTLET OR OTHER DEVICE MOUNTED ON A COLUMN, PILASTER, OR SIMILAR WALL OFFSET SHALL BE CENTERED.

6. COORDINATE MOUNTING HEIGHT OF DEVICES ABOVE MILLWORK WITH ARCHITECTURAL PLANS.

7. VERIFY MARKERBOARD, TACKBOARD, AND DOOR SWING LOCATIONS WITH ARCHITECTURAL PLANS - DO NOT INSTALL DEVICES IN THESE AREAS.

8. COORDINATE EXACT LOCATION OF ALL DEVICES, ETC. INSTALLED IN MOVEABLE

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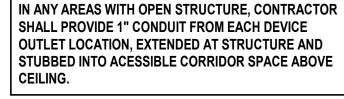
9. CONFIRM ALL COMMUNICATIONS DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. THE ARCHITECT RESERVES THE RIGHT TO LOCATE DEVICES ANYWHERE WITHIN EACH ROOM AND DETERMINE SURFACE RACEWAY ROUTING IF APPLICABLE.

10. COORDINATE EXACT MECHANICAL EQUIPMENT LOCATION AND TYPE WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR. DO NOT INSTALL CONDUIT WITHIN 3'-0" OF ANY HVAC DEVICE UNLESS THE DEVICE SERVES THAT UNIT.

11. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS AND CONTROL RELAYS WHERE REQUIRED. MECHANICAL CONTRACTOR SHALL INSTALL HOUSING AND SAMPLE TUBES IN DUCT. FIRE ALARM CONTRACTOR TO PROVIDE LOW VOLTAGE CONNECTION TO FIRE ALARM.

12. FIRE ALARM CONTRACTOR SHALL VERIFY CIRCUIT STYLE, QUANTITY, AND LOCATIONS OF DEVICES TO MEET ALL APPLICABLE CODES, LAWS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION FOR INCLUSION IN BASE PROPOSAL.

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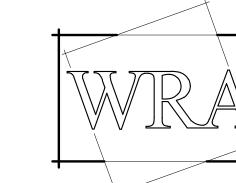


IN ANY AREAS WITH OPEN STRUCTURE, ALL LOW VOLTAGE CABLING SHALL BE ENCLOSED IN CONDUIT.

THE EXISTING FIRE ALARM SYSTEM SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO KEEP STUDENT OCCUPIED AREAS OPERATIONAL AS REQUIRED BY THE PROJECT PHASING. AT THE CLOSE OF THE PROJECT, THE ENTIRE EXISTING FIRE ALARM SYSTEM INCLUDING THE PANEL AND ALL DEVICES AND CABLING SHALL BE REMOVED.

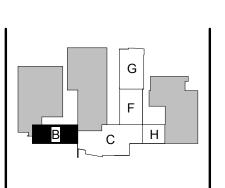
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\<u>S</u>

REVISIONS:

EMA Engineering and Consulting Tyler - Austin - Houston Phone: 1-800-933-0538 TBPE Firm Registration No. F-893 www.estesmcclure.com

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING

DATE: February 27, 2019 ELECTRICAL COMM. FLOOR PLAN - LEVEL 2

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- UNIT B

1 ELECTRICAL COMMUNICATION FLOOR PLAN - LEVEL 2 - UNIT B 1/8" = 1'-0"

- EXTEND 1-1/4" CONDUIT FROM ACCESSIBLE SPACE ABOVE DROP CEILING, DOWN INSIDE WALL, AND UNDER SLAB TO FLOOR BOX. PROVIDE POWER AND DATA TO FLOOR BOX THROUGH SEPARATE CONDUITS UNDER SLAB.
- IN FIXTURE AS REQUIRED.
- (3) FOUR 3" HOLES CORE DRILLED THROUGH FLOOR FOR COMMUNICATION CABLING

- (7) DATA FOR FUTURE DISPLAY LOCATION. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.

- (2) EXTEND 1-1/4" CONDUIT FROM ACCESSIBLE SPACE ABOVE DROP CEILING, DOWN INSIDE WALL, AND UNDER SLAB TO STUB UP, EXTEND CABLING AND MOUNT DEVICE
- FROM BELOW.
- (4) IDF RACK.
- 5 DATA FOR DIGITAL SIGNAGE. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.
- (6) AUX. INPUT FOR LOCAL SOUND.

#### **ELECTRICAL COMMUNICATIONS GENERAL NOTES**

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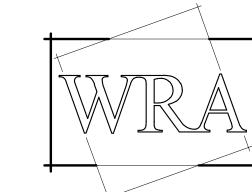
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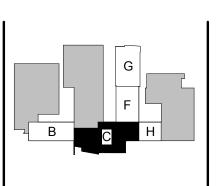
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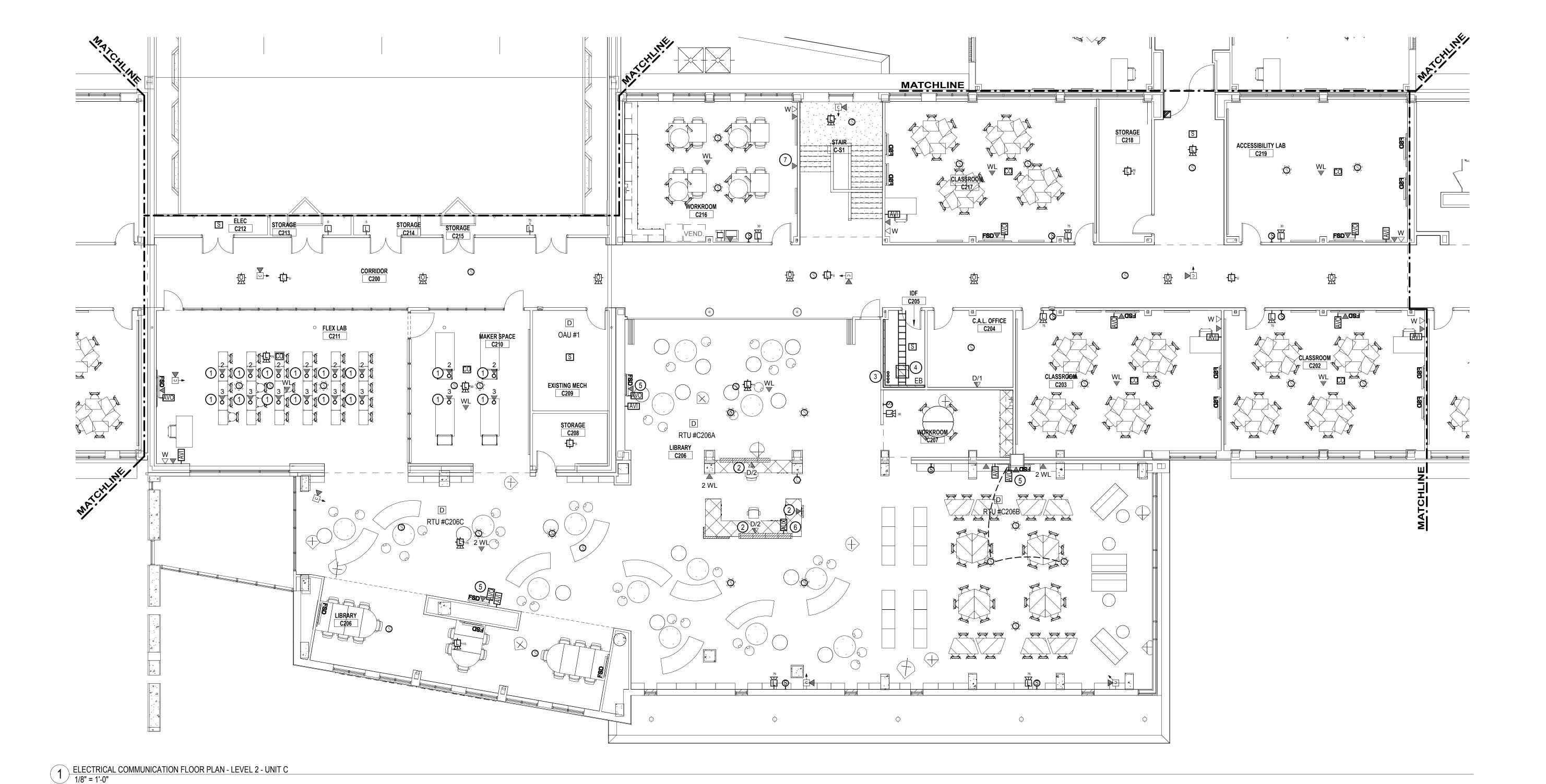
EMA Engineering and Consulting Tyler - Austin - Houston Phone: 1-800-933-0538 TBPE Firm Registration No. F-893

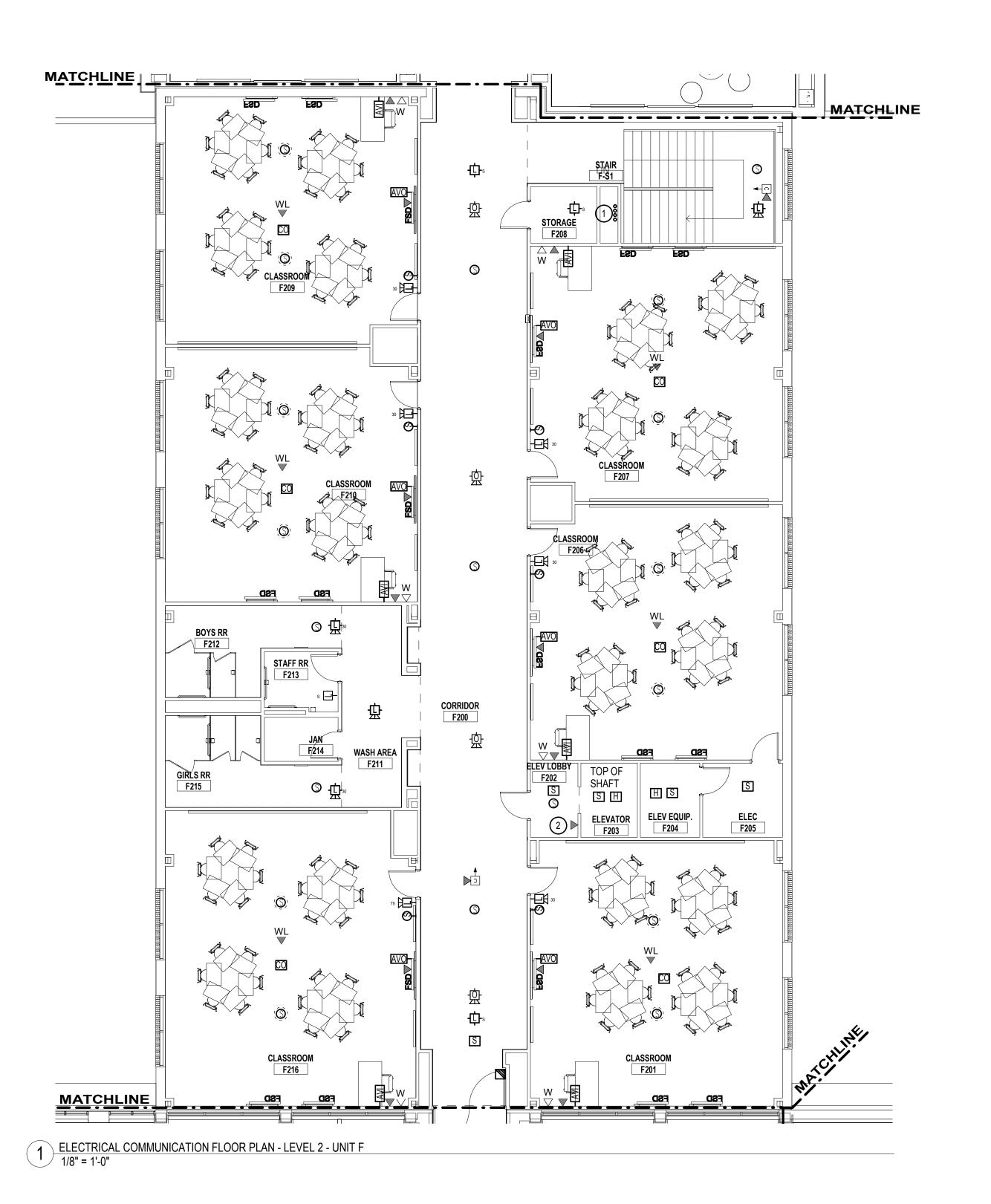
DATE: February 27, 2019 ELECTRICAL COMM.

FLOOR PLAN - LEVEL 2 - UNIT C

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www.estesmcclure.com SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING





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#### **ELECTRICAL COMMUNICATION** PLAN NOTES

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2 DATA FOR ELEVATOR LOBBY EMERGENCY TWO-WAY COMMUNICATIONS.

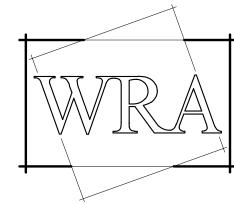
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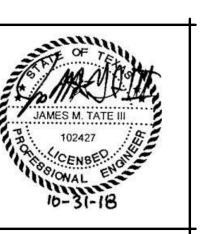
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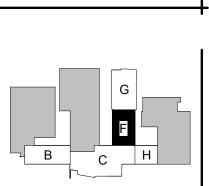
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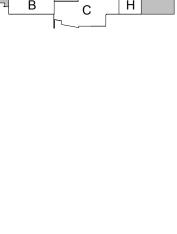
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**REVISIONS**:

DATE:

February 27, 2019 ELECTRICAL COMM. FLOOR PLAN - LEVEL 2 - UNIT F

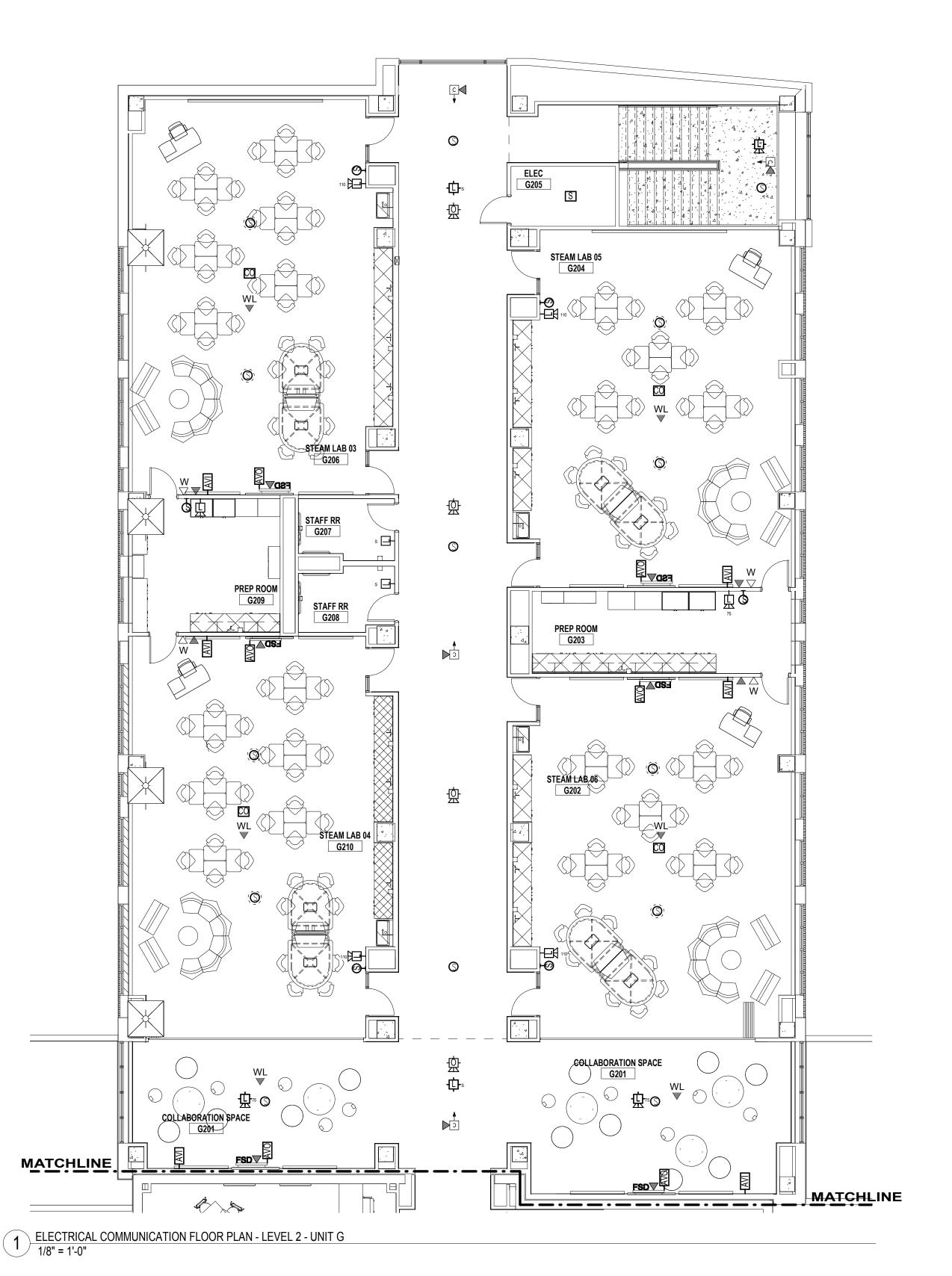
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EMA Engineering and Consulting SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE

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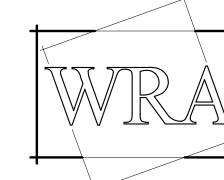
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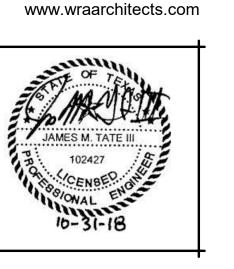
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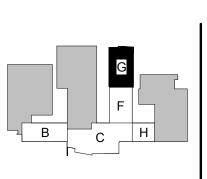
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IMMS Addition/Renovat

REVISIONS:

JOB NO.

DATE: Feb

DATE: February 27, 2019

ELECTRICAL COMM.
FLOOR PLAN - LEVEL 2

- UNIT G

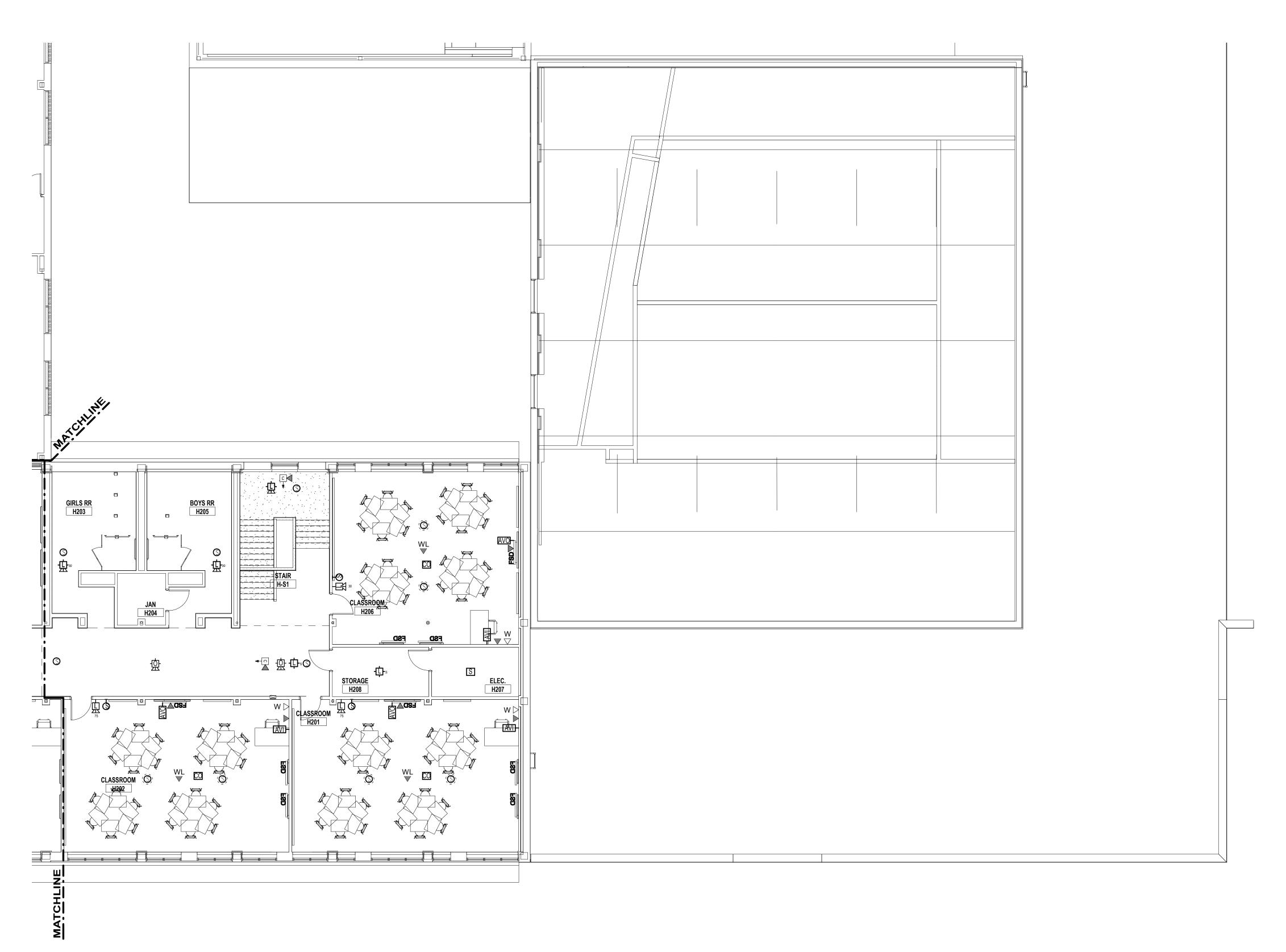
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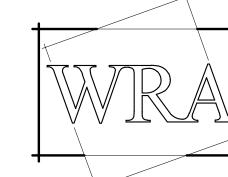
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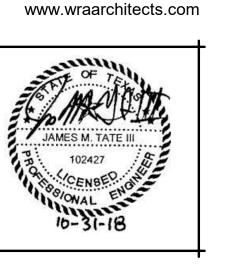
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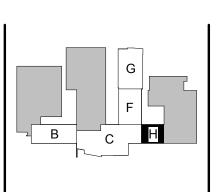
THE EXISTING NETWORK SHALL BE MODIFIED AS NECESSARY BY CONTRACTOR TO REMAIN IN PLACE AND OPERATIONAL AS REQUIRED BY THE PROJECT PHASING. CONTRACTOR SHALL PROVIDE TEMPORARY FIBER BACKBONE BETWEEN CLOSETS AS REQUIRED. AT THE CLOSE OF THE PROJECT, THE EXISTING NETWORK SYSTEM INCLUDING ALL DEVICES AND CABLING SHALL BE REMOVED.



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214.750.5931 fax





**REVISIONS**:

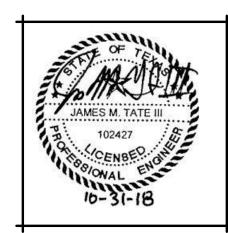
EMA Engineering and Consulting Tyler - Austin - Houston Phone: 1-800-933-0538 DATE: TBPE Firm Registration No. F-893

February 27, 2019 ELECTRICAL COMM. FLOOR PLAN - LEVEL 2 - UNIT H

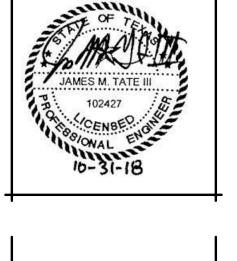
www.estesmcclure.com SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING

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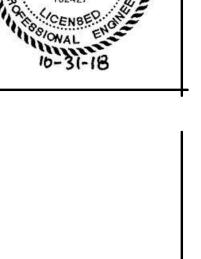






DATE: February 27, 2019

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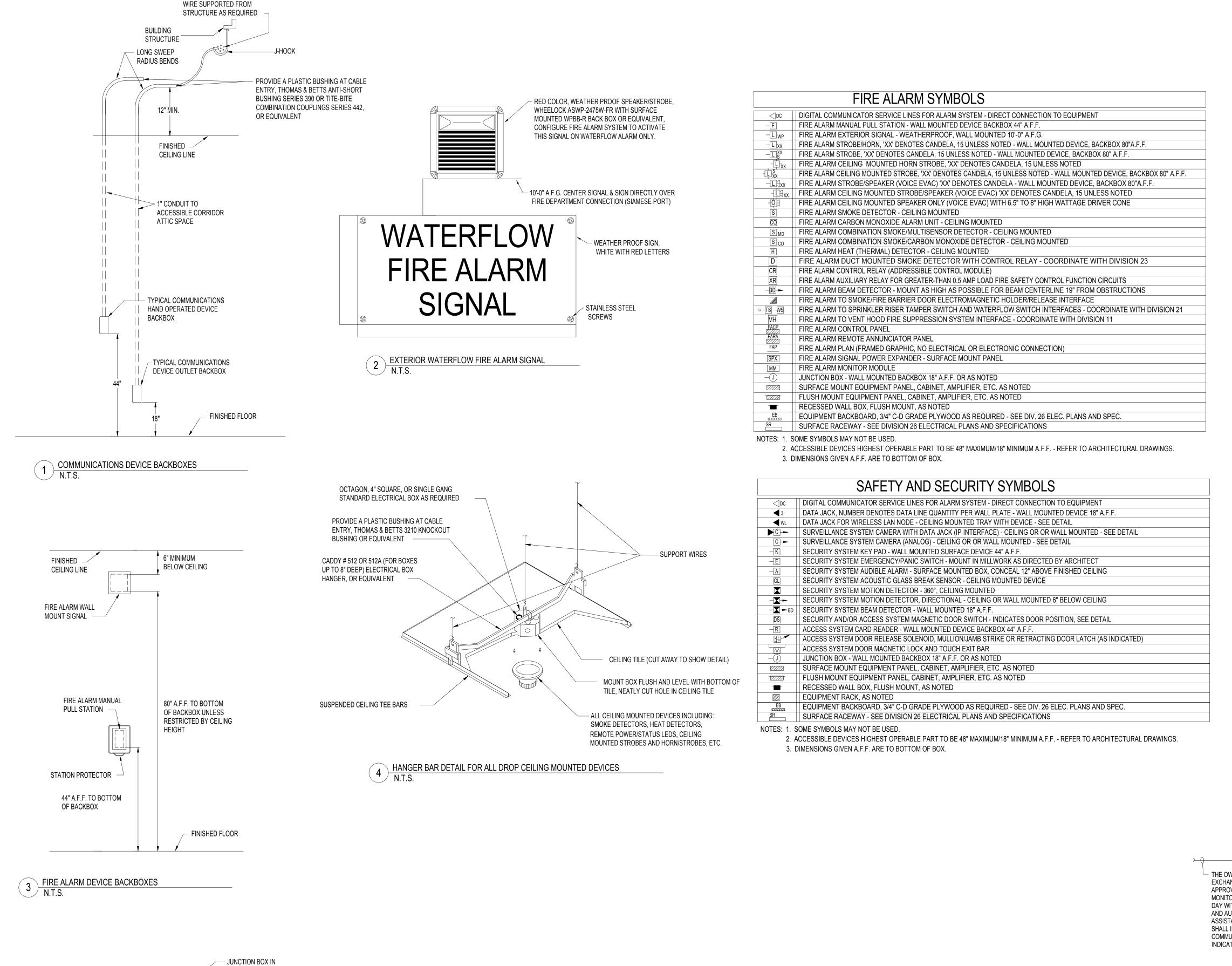




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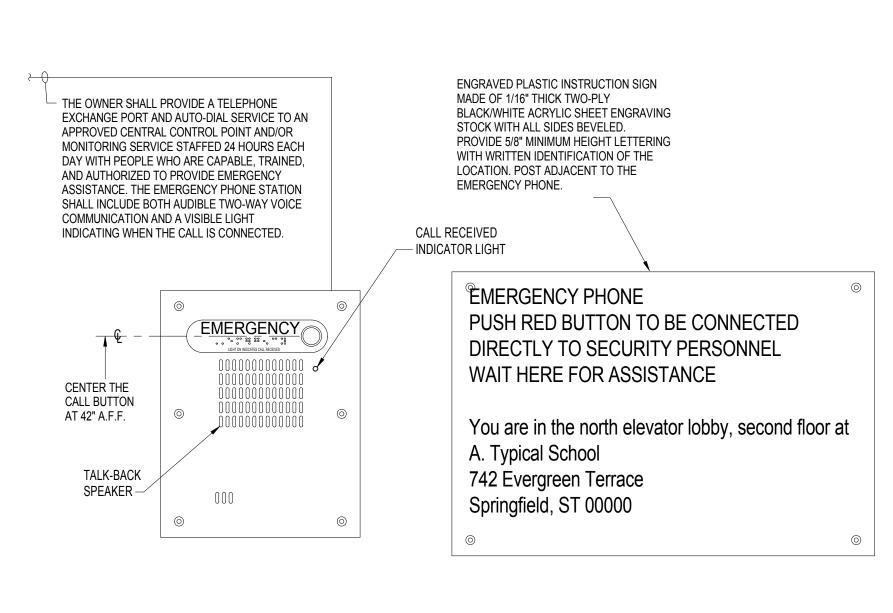
EMA Engineering and Consulting Tyler - Austin - Houston

Phone: 1-800-933-0538 TBPE Firm Registration No. F-893 ELECTRICAL COMM. **DETAILS AND SYMBOLS** ET711



WEATHER PROOF INTERCOM HORN

WITH WEATHER PROOF BAFFLE



8 ELEVATOR LOBBY EMERGENCY TWO-WAY COMMUNICATIONS N.T.S.

DATA, COMMUNICATIONS AND AUDIO/VIDEO SYMBOLS

SOUND REINFORCEMENT SPEAKER - CEILING MOUNTED - X DENOTES TYPE - REFER TO SPECS.

MICROPHONE JACK - CEILING MOUNTED DEVICE - 1" C. TO AMPLIFIER - X DENOTES TYPE - REFER TO SPECS.

AUDIO/VIDEO SIGNAL INPUT JACKS - WALL MOUNTED DEVICE 18" A.F.F. - X DENOTES TYPE - REFER TO SPECS.

AUDIO/VIDEO SIGNAL OUTPUT JACK - WALL MOUNTED DEVICE 18" A.F.F. - X DENOTES TYPE - REFER TO SPECS.

AUDIO/VIDEO SIGNAL INPUT JACKS - CEILING MOUNTED DEVICE - X DENOTES TYPE - REFER TO SPECS.

AUDIO/VIDEO SIGNAL OUTPUT JACK - CEILING MOUNTED DEVICE - X DENOTES TYPE - REFER TO SPECS.

PRODUCTION INTERCOM - WALL MOUNTED DEVICE 18" A.F.F. - X DENOTES TYPE - REFER TO SPECS.

SOUND REINFORCEMENT SPEAKER - SURFACE WALL MOUNTED AS NOTED - X DENOTES TYPE - REFER TO SPECS.

MICROPHONE JACK - WALL MOUNTED DEVICE JACK 18" A.F.F. OR AS NOTED - 1" C. TO AMPLIFIER - X DENOTES TYPE - REFER TO SPECS.

WIRELESS MICROPHONE ANTENNA, HEIGHT AS NOTED. PROVIDE SINGLE GANG WALL BOX AND 1/2" C. TO EQUIPMENT RACK.

ASSISTIVE LISTENING ANTENNA, HEIGHT AS NOTED. PROVIDE SINGLE GANG WALL BOX AND 1/2" C. TO EQUIPMENT RACK.

SPEAKER - SURFACE WALL MOUNTED 12" BELOW CEILING OR AS NOTED

HORN SPEAKER - SURFACE WALL MOUNTED 15'-0" A.F.F. OR AS REQUIRED

EXTERIOR HORN SPEAKER - WEATHER PROOF, WALL MOUNTED 10'-0" A.F.G.

LOCAL A/V SYSTEM VOLUME CONTROL - WALL MOUNTED DEVICE PLATE AT 44" A.F.F.

MICROPHONE JACK - FLUSH FLOOR MOUNTED DEVICE FLOORBOX - 1" C. TO AMPLIFIER

WIRELESS MICROPHONE ANTENNA. - CEILING MOUNTED DEVICE. - 1/2" C. TO EQUIPMENT RACK.

ASSISTIVE LISTENING ANTENNA - CEILING MOUNTED DEVICE. - 1/2" C. TO EQUIPMENT RACK.

TELEVISION SIGNAL RF OUTLET JACK - CEILING OR WALL MOUNTED DEVICE 18" A.F.F.

SPEAKER WITH DATA JACK (IP INTERFACE) - CEILING MOUNTED

A/V KEYPAD - X DENOTES TYPE - REFER TO SPECS.

A/V CONTROL PANEL - X DENOTES TYPE - REFER TO SPECS.

A/V TOUCH PANEL - X DENOTES TYPE - REFER TO SPECS.

WALL POCKET - X DENOTES TYPE - REFER TO SPECS.

A/V BACKBOX - WALL MOUNTED, SEE DETAIL

AMPLIFIER EQUIPMENT RACK.

STAGE MANAGERS EQUIPMENT RACK.

FLOOR POCKET - X DENOTES TYPE - REFER TO SPECS.

CEILING MOUNTED SCREEN - X DENOTES TYPE - REFER TO SPECS.

WALL MOUNTED SCREEN - X DENOTES TYPE - REFER TO SPECS.

FLAT SCREEN DISPLAY BRACKET - POLE MOUNTED, SEE DETAIL

FLAT SCREEN DISPLAY BRACKET - WALL MOUNTED, SEE DETAIL

MIXING CONSOLE - X DENOTES TYPE - REFER TO SPECS.

VIDEO EQUIPMENT RACK - X DENOTES TYPE - REFER TO SPECS.

PROGRAM BELL - WALL MOUNTED 12" BELOW FINISHED CEILING

INTERCOM CALL BUTTON - WALL MOUNTED DEVICE 44" A.F.F.

JUNCTION BOX - WALL MOUNTED BACKBOX 18" A.F.F. OR AS NOTED

JUNCTION BOX - FLUSH FLOOR MOUNTED BACKBOX AS NOTED

RECESSED WALL BOX, FLUSH MOUNT, AS NOTED

3. DIMENSIONS GIVEN A.F.F. ARE TO BOTTOM OF BOX.

EQUIPMENT RACK, AS NOTED

NOTES: 1. SOME SYMBOLS MAY NOT BE USED.

AUXILIARY EQUIPMENT RACK - X DENOTES TYPE - REFER TO SPECS

TELEPHONE DESKSET JACK - WALL MOUNTED DEVICE JACK 18" A.F.F.

TELEPHONE FAX MACHINE JACK - WALL MOUNTED DEVICE JACK 18" A.F.F.

TELEPHONE SINGLE-LINE SERVICE JACK - WALL MOUNTED DEVICE JACK 18" A.F.F.

DATA JACK FOR WIRELESS LAN NODE - CEILING MOUNTED TRAY WITH DEVICE - SEE DETAIL

INTERCOM ADMINISTRATIVE PHONE DESKSET - WALL MOUNTED DEVICE JACK 18"A.F.F.

COMMUNICATION/POWER POLE - SEE DIVISION 26 ELECTRICAL PLANS AND SPECS

MAIN DISTRIBUTION FRAME (COMPUTER NETWORK PRIMARY SWITCHING HUB RACK)

SURFACE MOUNT EQUIPMENT PANEL, CABINET, AMPLIFIER, ETC. AS NOTED

FLUSH MOUNT EQUIPMENT PANEL, CABINET, AMPLIFIER, ETC. AS NOTED

SURFACE RACEWAY - SEE DIVISION 26 ELECTRICAL PLANS AND SPECS.

PROJECTOR BRACKET & POWER OUTLET - OVERHEAD CEILING MOUNTED DEVICE

PROJECTOR BRACKET & POWER OUTLET - SHORT THROW WITH WALL MOUNTING BRACKET

TELEPHONE WALLSET JACK - WALL MOUNTED DEVICE PLATE WITH MOUNTING STUDS 44" A.F.F.

DIGITAL COMMUNICATOR SERVICE LINES FOR ALARM SYSTEM - DIRECT CONNECTION TO EQUIPMENT

SURVEILLANCE SYSTEM CAMERA WITH DATA JACK (IP INTERFACE) - CEILING OR OR WALL MOUNTED - SEE DETAIL

JUNCTION BOX FOR NETWORK DROP BY OWNER - WALL MOUNTED BACKBOX 18" A.F.F. OR AS NOTED

INTERMEDIATE DISTRIBUTION FRAME (COMPUTER NETWORK SECONDARY SWITCHING HUB RACK)

EQUIPMENT BACKBOARD, 3/4" C-D GRADE PLYWOOD AS REQUIRED - SEE DIV. 26 ELEC. PLANS AND SPECS.

2. ACCESSIBLE DEVICES HIGHEST OPERABLE PART TO BE 48" MAXIMUM/18" MINIMUM A.F.F. - REFER TO ARCHITECTURAL DRAWINGS.

DATA JACK, NUMBER DENOTES DATA LINE QUANTITY PER WALL PLATE - WALL MOUNTED DEVICE 18" A.F.F.

PROGRAM CLOCK - CEILING OR WALL MOUNTED 12" BELOW FINISHED CEILING, '2' DENOTES DOUBLE FACE

PROGRAM CLOCK WITH DATA JACK (IP INTERFACE) - CEILING OR WALL MOUNTED 12" BELOW FINISHED CEILING

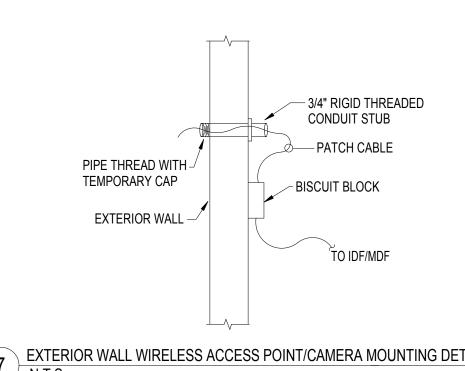
FLOOR BOX WITH COVER FOR COMMUNICATION AND POWER - SEE DIVISION 26 ELECTRICAL PLANS AND SPECS.

COPPER GROUND BAR WITH INSULATED WALL MOUNTING BRACKETS - SEE ELECTRICAL SPECS. SECTION 26 05 34

COMBINATION TELEPHONE DESKSET/DATA JACK WALL PLATE, NUMBER DENOTES DATA LINE QUANTITY - WALL MTD. DEVICE 18" A.F.F.

SPEAKER - CEILING MOUNTED

BROADCAST CAMERA





7 EXTERIOR WALL WIRELESS ACCESS POINT/CAMERA MOUNTING DETAIL N.T.S.

5 DOOR SWITCH DETAIL N.T.S.

CEILING LINE

DOOR FRAME

- HINGE SIDE

OF DOOR

DOOR SWITCH MAGNET

SIDE OF DOOR

4" TO 8" FROM STRIKE

**BUNDLED COMMUNICATIONS** 

ACCESSIBLE ATTIC

DOOR SWITCH TO FIT

BOX AND LEAVE 12"

FOR TERMINATION.

INSIDE CONDUIT STUB.

RUN WIRING TO JUNCTION

WEATHER PROOF SPEAKER/STROBE-

-10'-0" ABOVE

6 EXTERIOR FIRE ALARM AND INTERCOM SPEAKER DETAIL N.T.S.

FINISHED GRADE

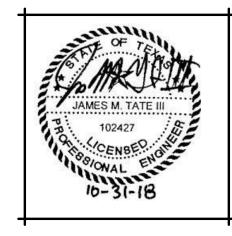
FLUSH MOUNT WITH WEATHER

PROOF BACKBOX

SPACE

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING

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DEVICES NOTED AS OWNER SELECTED CONTRACTOR. OWNER'S INSTALLER SHALL

FURNISHED, OWNER

INSTALLED SHALL BE

COORDINATE WITH

THESE SYSTEMS.

GENERAL CONTRACTOR

FOR INSTALLATION OF

INSTALLED BY OWNER

RESPONSIBILITY MATRIX FURNISHED INSTALLED

TASK

CABLING, RACKS, PATCH PANELS

NETWORK SWITCHES/SERVERS

WIRELESS ACCESS POINTS

TV'S/TV BRACKETS

FINE ARTS PROJECTORS/BRACKETS

CLASSROOM A/V CABLING

CLASSROOM LOCAL SOUND

TURN KEY FINE ARTS ROOMS

TURN KEY GYMNASIUM SYSTEM

HEADEND EQUIPMENT

SPEAKERS

CLOCKS

TURNKEY ACCESS SYSTEM

IP CAMERA CABLING

IP CAMERA SERVER

INTRUDER ALARM SYSTEM

TURNKEY ALARM SYSTEM

VOICE EVAC ALARM SYSTEM

27 40 18 AUDIO VIDEO CABLING/BRACKETS

27 51 25 SOUND REINFORCEMENT

27 51 40 INTERCOM COMMUNICATION

28 13 27 BUILDING ACCESS CONTROL

28 21 23 VIDEO SURVEILLANCE SYSTEM

28 46 21 FIRE DETECTION AND ALARM

DATA CABLING PLANT

SECTION

27 10 30

REVISIONS:

ELECTRICAL COMM.

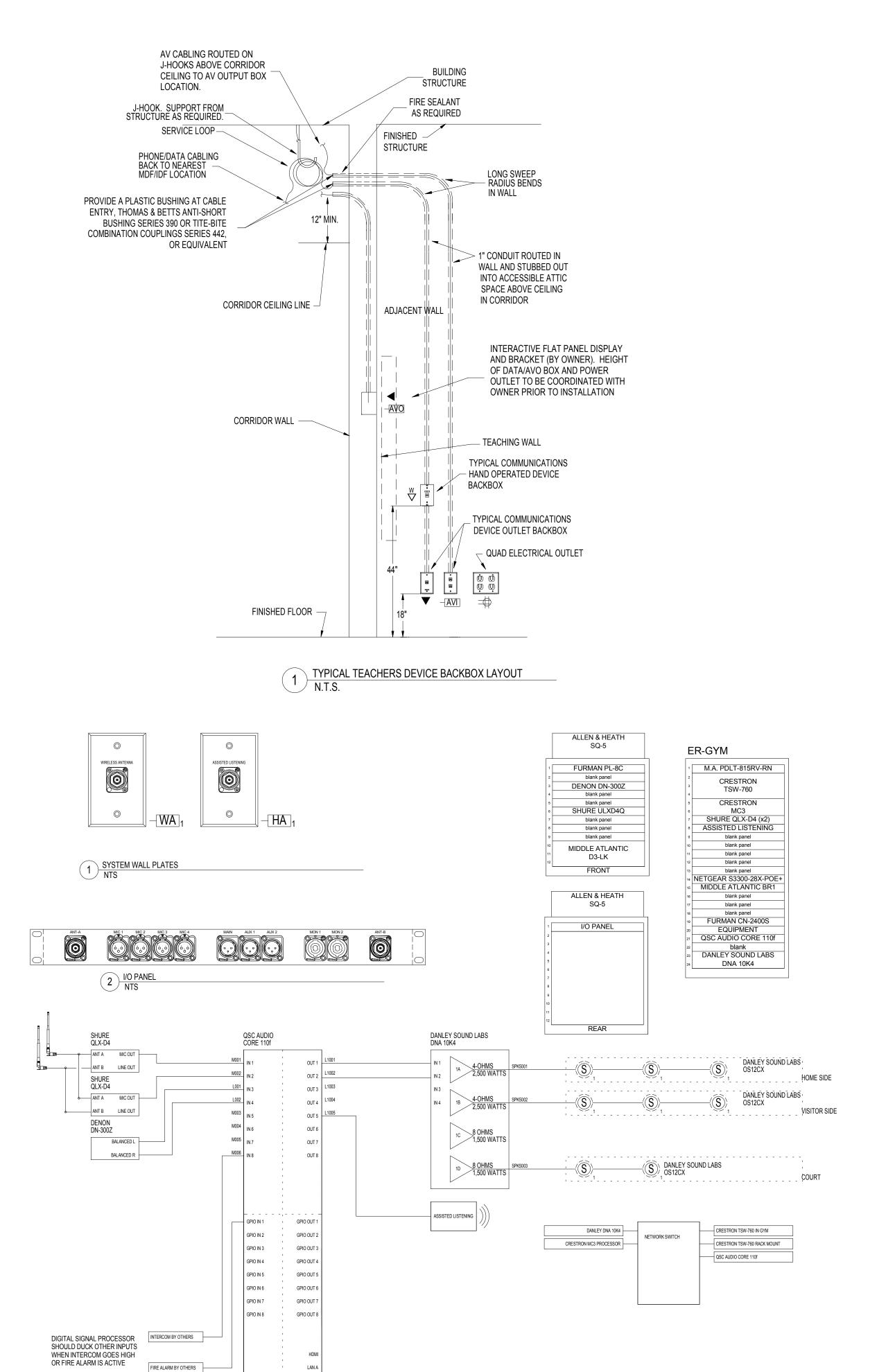
**DETAILS AND** 

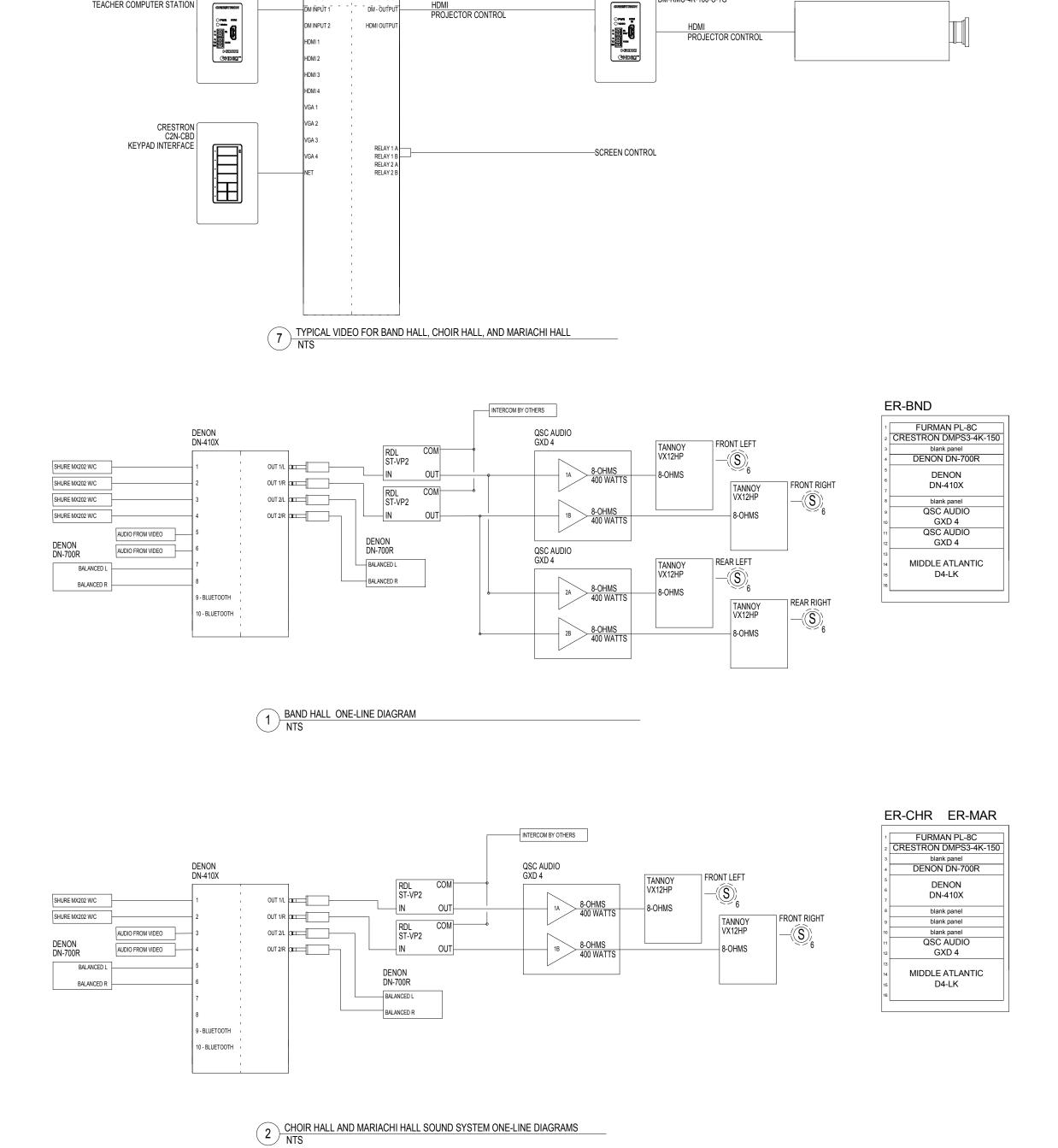
SYMBOLS

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DM-RMC-4K-100-C-1G

CRESTRON DM-TX-4K-100-C-2G TEACHER COMPUTER STATION

3 GYMNASIUM SOUND SYSTEM ONE-LINE DRAWING NTS

TBPE Firm Registration No. F-893 SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.