RMG
RANDY M. GOODLOE, AIA, APAC
A Professional Architectural Corporation

December 8, 2023

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LAKE CHARLES
LA,70601

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(337) 436-3773

Project: **Hurricane Laura Stom Repairs - Rosteet Annex**

Addendum No. 2

Note: This addendum shall become part of the contract and contract documents and the contractor shall be responsible for each item included in this addendum.

Item No. 1 - See attached abatement items from Wynn L. White Consulting.

Item No. 2 - Clarification – Roof Insulation shall be covered in the modified bitumen membrane warranty.

Item No. 3 - See attached photos of stage curtains to be replaced in like kind.

Item No. 4 - See attached revised sheets A-2.2 & A-2.3.

Item No. 5 - See attached revised sheets A-ME1, A-ME5, A-ME6.

Item No. 6 - See attached specification 27 13 00 Voice and Data Systems.

End of Addendum No. 2

Addendum Number 2
December 7, 2023

Calcasieu Parish School Board

Rosteet Annex
Engineer's Project Number: 23023

The following changes, additions, deletions or alterations to the Specifications or Drawings shall be incorporated into the Specifications and Drawings for the above captioned project and acknowledged in the Contractor's Bid and in the Agreement between Owner and Contractor.

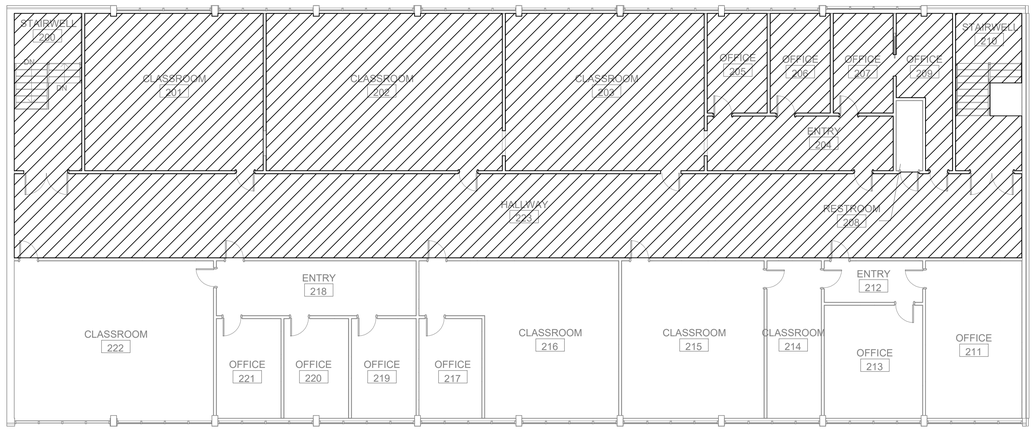
Item 1 Delete Drawing Sheets ASB1, ASB2 and ASB3 and replace with attached Drawing Sheets ASB1, ASB2, and ASB3 dated 12/7/23.

This Addendum Number 2 contains:

- Item 1 (1 page).
- Drawing Sheets ASB1, ASB2 and ASB3, dated 12/7/23 (3 - 36" x 24" sheets)

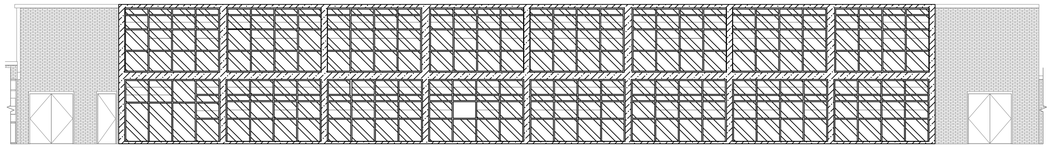
End of Addendum Number 2

12/7/23



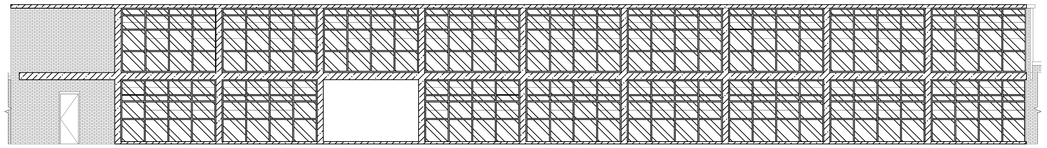
SOUTHWEST WING - 2ND FLOOR
REFER TO RMG ARCHITECT SHEET A-2.4

0' 5' 10' 15'



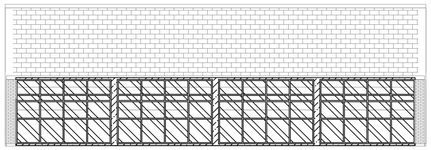
1 SOUTHWEST WING - 1ST FLOOR - NORTH ELEVATION
REFER TO RMG ARCHITECT SHEETS A-2.1 & A-2.4

0' 5' 10' 15'



2 SOUTHWEST WING - 1ST FLOOR - SOUTH ELEVATION
REFER TO RMG ARCHITECT SHEETS A-2.1 & A-2.4

0' 5' 10' 15'



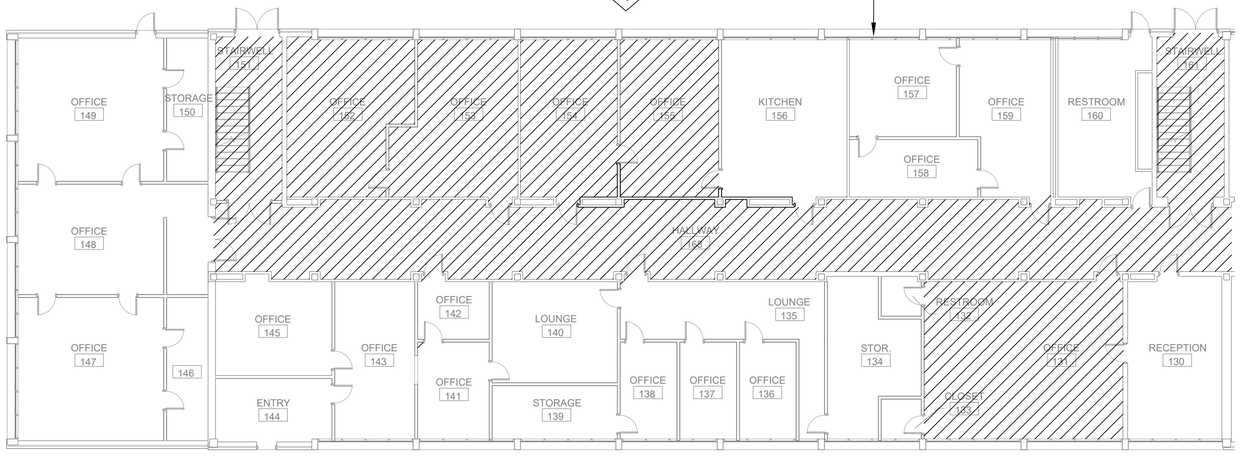
3 SOUTHWEST WING - 1ST FLOOR - WEST ELEVATION
REFER TO RMG ARCHITECT SHEET A-2.1

0' 5' 10' 15'

ASB1 1

REMOVE
CAULK/GLAZING/SEALANT

ASB1 3



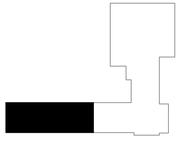
SOUTHWEST WING - 1ST FLOOR
REFER TO RMG ARCHITECT SHEET A-2.1

0' 5' 10' 15'

2 ASB1

N

PROJECT NORTH



NOT TO SCALE

REMOVE & DISPOSE OF FLOOR TILE/MASTIC

REMOVE & DISPOSE OF BROKEN WINDOW PANES, CAULK, SEALANT, AND GASKETS. COORDINATE WITH GENERAL CONTRACTOR.

REMOVE PLASTER TO SUBSTRATE

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PHONE: (225) 761-9141 FAX: 761-4450

CLIENT: CALCASIEU PARISH SCHOOL BOARD

PROJECT: ROSTEET ANNEX

SHEET: ASBESTOS ABATEMENT SOUTHWEST WING

12/7/23

PROJECT NUMBER 23023

FACILITY NUMBER 162

REVISIONS		
NO.	DATE	BY
1	11/9/23	JLY
2	12/07/23	JLY

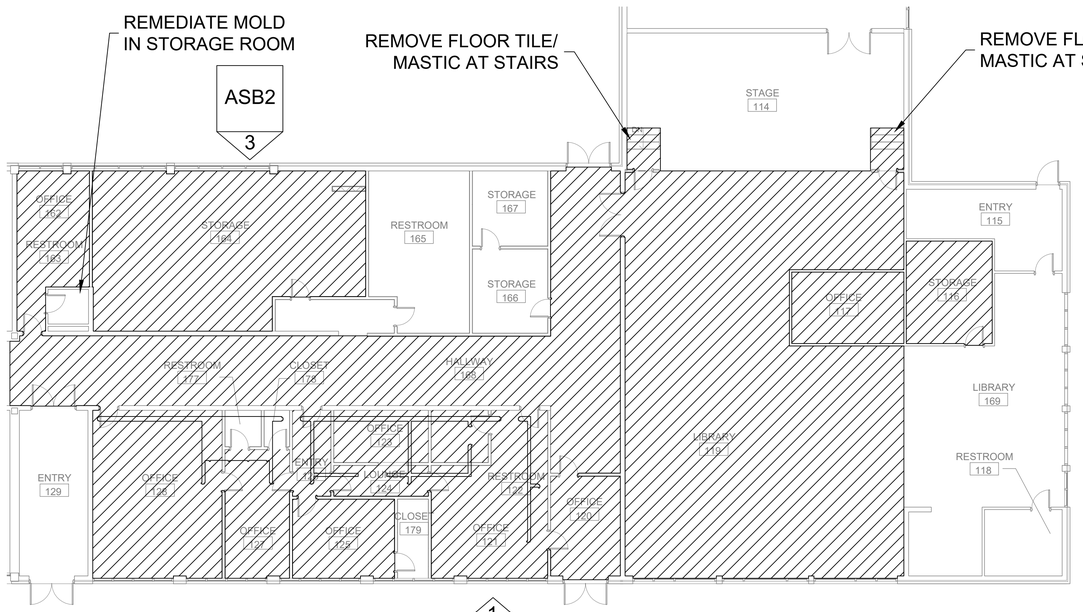
DRAWN BY:	CMW
CHECKED BY:	CMW
DATE:	8/9/23
SCALE:	AS NOTED
SHEET	ASB1 OF ASB3

REMEDIATE MOLD
IN STORAGE ROOM

REMOVE FLOOR TILE/
MASTIC AT STAIRS

REMOVE FLOOR TILE/
MASTIC AT STAIRS

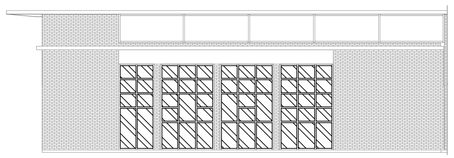
ASB2
3



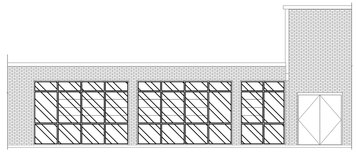
2 ASB2

1
ASB2

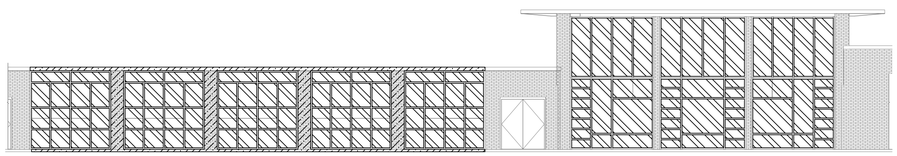
SOUTHEAST WING - 1ST FLOOR
REFER TO RMG ARCHITECT SHEET A-2.2
0' 5' 10' 15'



2 LIBRARY - EAST ELEVATION
REFER TO RMG ARCHITECT SHEET A-2.2
0' 5' 10' 15'



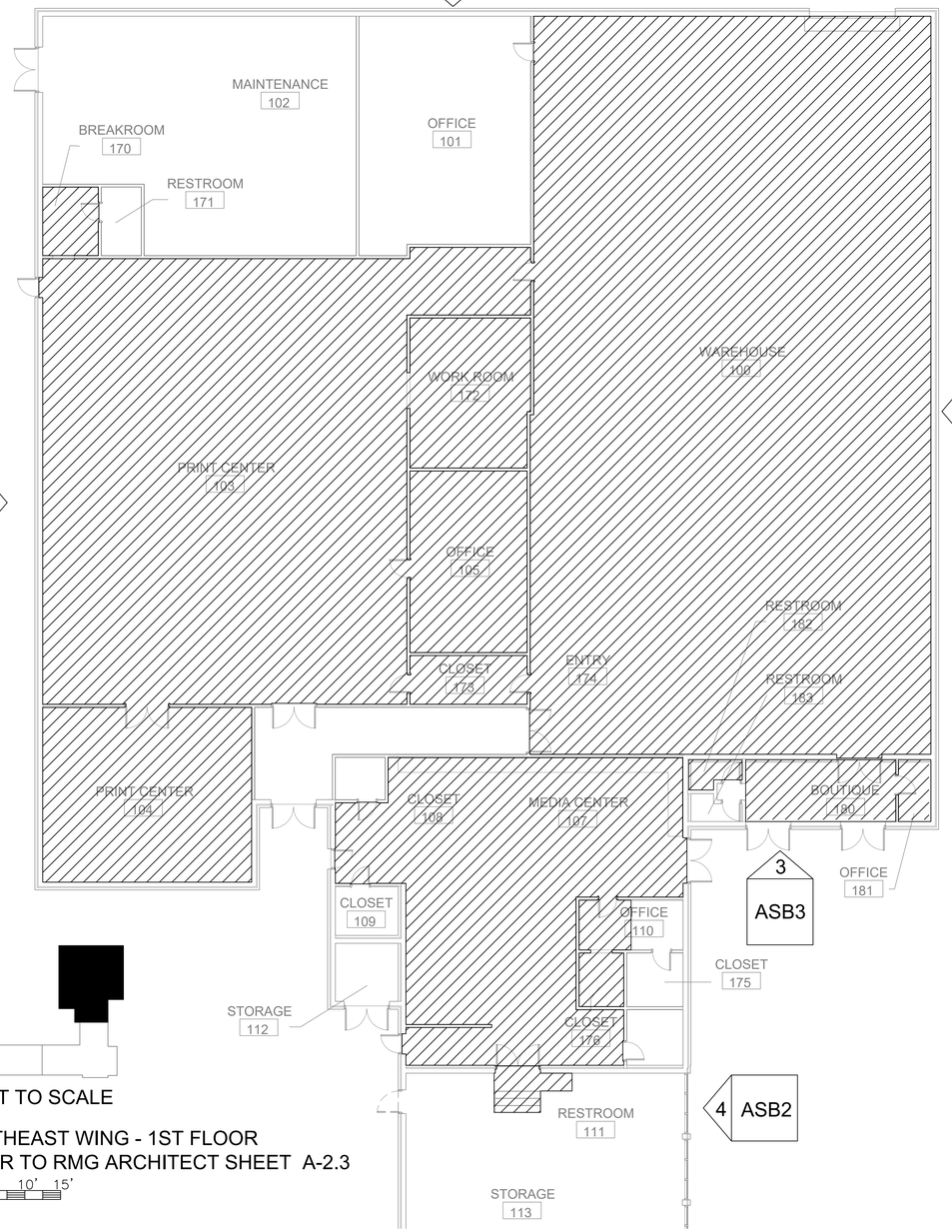
3 SOUTHEAST WING - ELEVATION 2-A
REFER TO RMG ARCHITECT SHEET A-2.2
0' 5' 10' 15'



1 LIBRARY - SOUTH ELEVATION
REFER TO RMG ARCHITECT SHEET A-2.2
0' 5' 10' 15'

ASB3
1

ASB3 4



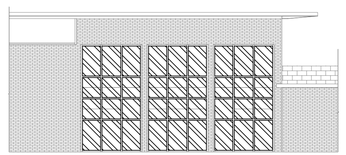
2 ASB3

3
ASB3

4 ASB2

NOT TO SCALE

NORTHEAST WING - 1ST FLOOR
REFER TO RMG ARCHITECT SHEET A-2.3
0' 5' 10' 15'



4 STORAGE - EAST ELEVATION
REFER TO RMG ARCHITECT SHEET A-2.3
0' 5' 10' 15'

N

PROJECT NORTH

NOT TO SCALE

REMOVE & DISPOSE OF FLOOR TILE/MASTIC

REMOVE & DISPOSE OF BROKEN WINDOW PANES, CAULK, SEALANT,
AND GASKETS COORDINATE WITH GENERAL CONTRACTOR

REMOVE PLASTER TO SUBSTRATE

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CONSULTING
ENGINEERS, INC.
PHONE: (225) 761-9141 FAX: 761-4450

CLIENT: CALCASIEU PARISH SCHOOL BOARD

PROJECT: ROSTEET ANNEX

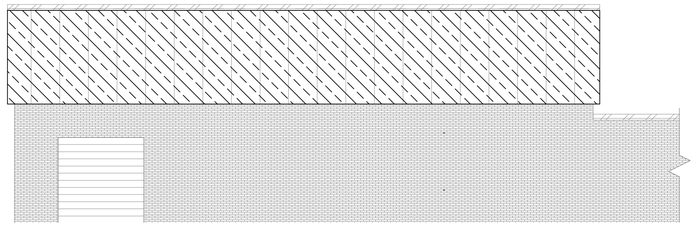
SHEET: ASBESTOS ABATEMENT
SOUTHEAST & NORTHEAST WINGS

12/7/23

PROJECT NUMBER
23023
FACILITY NUMBER
162

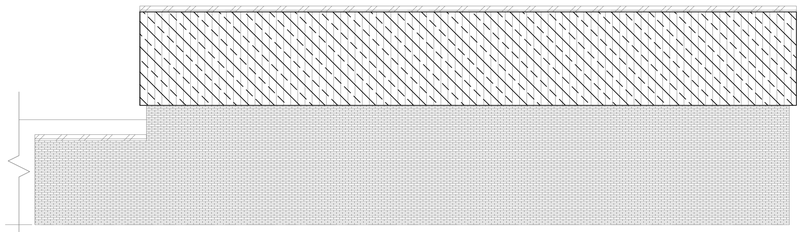
REVISIONS		
NO.	DATE	BY
1	10/10/23	JLY
2	11/9/23	JLY
3	12/07/23	JLY

DRAWN BY:	CMW
CHECKED BY:	CMW
DATE:	8/9/23
SCALE:	AS NOTED
SHEET	ASB2 OF ASB3



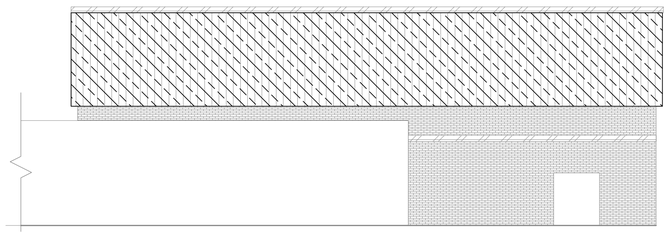
1 WAREHOUSE - NORTH ELEVATION
REFER TO RMG ARCHITECT SHEET A-2.3
0' 5' 10' 15'

SEE DETAIL A1
THIS SHEET



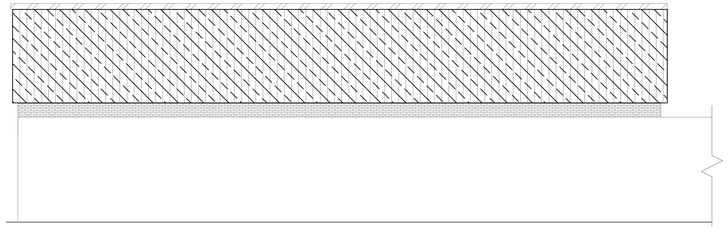
2 WAREHOUSE - EAST ELEVATION
REFER TO RMG ARCHITECT SHEET A-2.3
0' 5' 10' 15'

SEE DETAIL A1
THIS SHEET



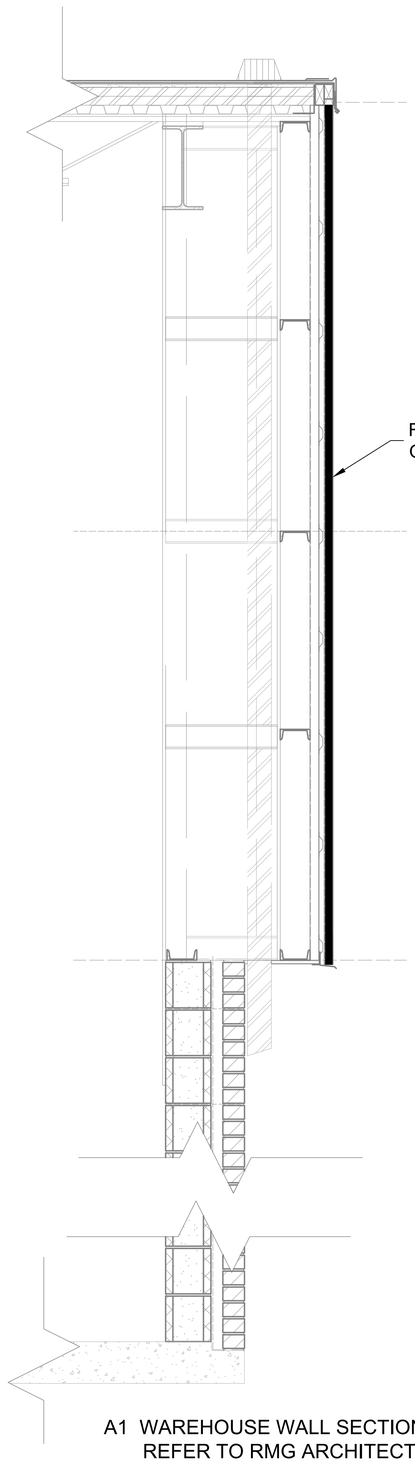
3 WAREHOUSE - SOUTH ELEVATION
0' 5' 10' 15'

SEE DETAIL A1
THIS SHEET



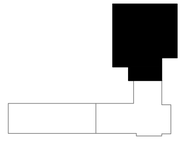
4 WAREHOUSE - WEST ELEVATION
0' 5' 10' 15'

SEE DETAIL A1
THIS SHEET



A1 WAREHOUSE WALL SECTION (TYPICAL)
REFER TO RMG ARCHITECT SHEET A-2.3
0' 0.5' 1' 1.5'

REMOVE & DISPOSE
OF TRANSITE PANELS



NOT TO SCALE

N

PROJECT NORTH

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PROJECT: ROSTEET ANNEX

SHEET: ASBESTOS ABATEMENT
NORTHEAST WING ROOF ELEVATION

12/7/23

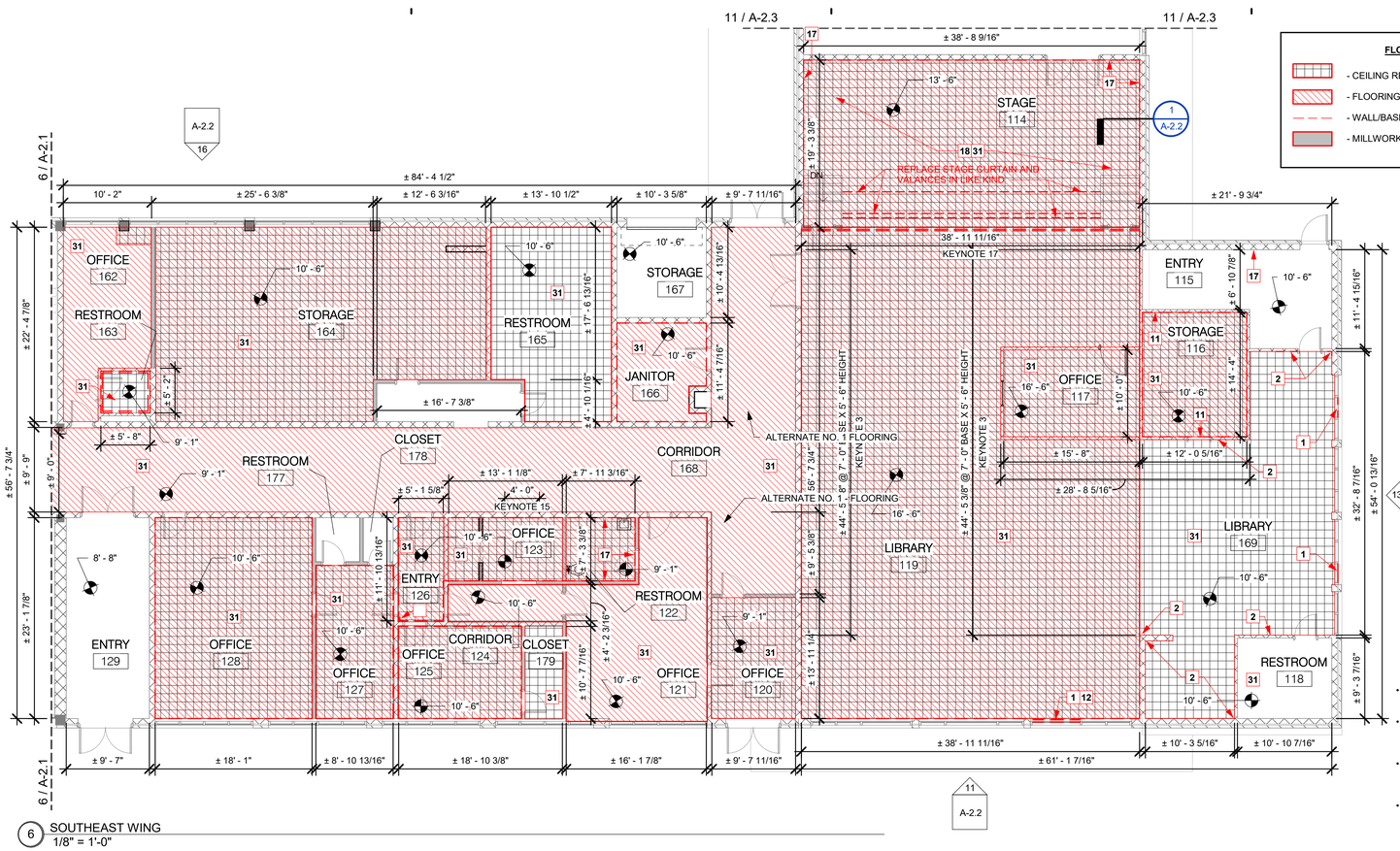
PROJECT NUMBER
23023

FACILITY NUMBER
162

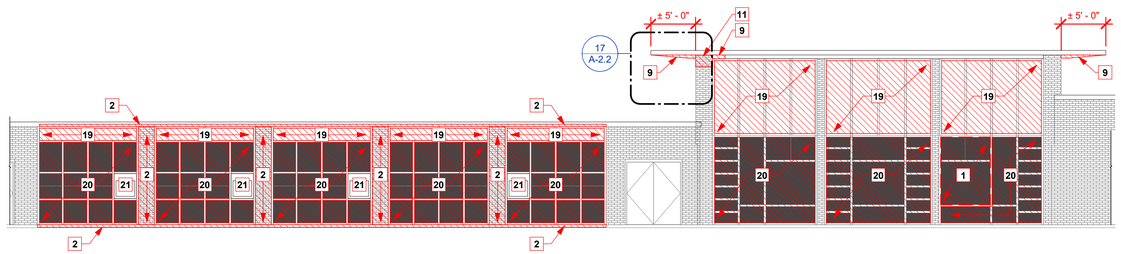
REVISIONS		
NO.	DATE	BY
1	12/07/23	JLY

DRAWN BY:	CMW
CHECKED BY:	CMW
DATE:	8/9/23
SCALE:	AS NOTED
SHEET	ASB3 OF ASB3

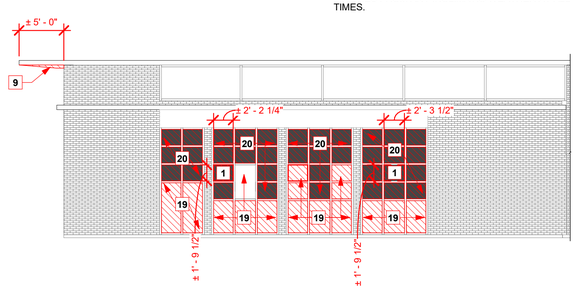
STAGE CURTAINS



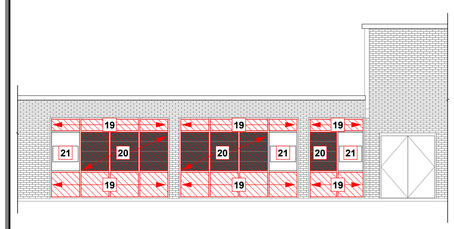
6 SOUTHEAST WING
1/8" = 1'-0"



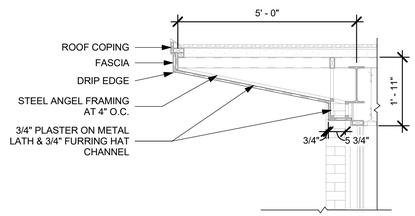
11 LIBRARY - SOUTH ELEVATION
1/8" = 1'-0"



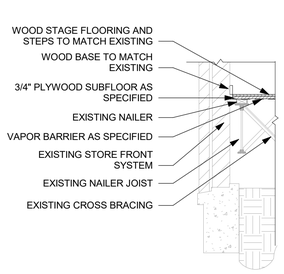
13 LIBRARY - EAST ELEVATION
1/8" = 1'-0"



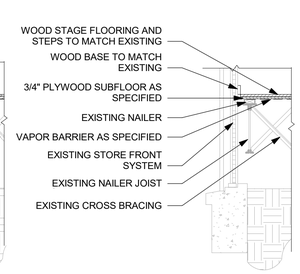
16 Elevation 2 - a
1/8" = 1'-0"



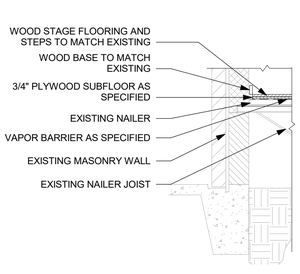
17 SOFFIT DETAIL AT LIBRARY ROOF
1/2" = 1'-0"



1 Section 9
1/2" = 1'-0"



2 Section 10
1/2" = 1'-0"



3 Section 11
1/2" = 1'-0"

FLOOR PLAN LEGEND

- CEILING REPAIR REQUIRED, SEE ROOM SCHEDULE.
- FLOORING REPAIR REQUIRED. SEE ROOM SCHEDULE.
- WALL/BASE REPAIR REQUIRED. SEE ROOM SCHEDULE.
- MILLWORK REPAIR REQUIRED. SEE ROOM SCHEDULE.

HAZARDOUS MATERIAL GENERAL NOTES

- ALL WORK INDICATED AS HAZARDOUS MATERIALS SHALL BE REMOVED BY ABATEMENT CONTRACTOR.
- CONTRACTOR IS TO COORDINATE WITH ABATEMENT CONTRACTOR FOR ABATEMENT WORK TO BE PERFORMED IN CONJUNCTION WITH THIS CONTRACT.
- COORDINATE SCHEDULED WORK WITH ABATEMENT CONTRACTOR AS TO NOT EXPOSE ANY EXTERIOR COMPONENTS TO THE WEATHER MORE THAN REQUIRED FOR REPAIRS.
- ABATEMENT OF INTERIOR COMPONENTS WILL NEED TO BE COORDINATED WITH CONTRACTOR'S PHASING PLAN FOR INTERIOR REPAIRS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING BUILDING STRUCTURE AND INTERIOR FINISHES FROM ANY INCLIMATIC WEATHER AT ALL TIMES.

KEYNOTES

1. **WINDOW REPLACEMENT:** REPLACE BROKEN WINDOW PANES AND GASKETS TO MATCH EXISTING. ALL INDICATED SEALANTS SHALL BE REMOVED BY ABATEMENT CONTRACTOR UNDER SEPARATE CONTRACT. CONTRACTOR SHALL REPLACE WINDOW PANES AS SPECIFIED TO ENSURE WEATHER TIGHT SEAL.
2. **PLASTER FINISH REPAIR:** EXISTING PLASTER SURFACE IS CRACKED. REMOVE AND REPLACE PLASTER FINISH COAT. NEW PLASTER SHALL BE FLUSH AND SMOOTH WITH EXISTING PLASTER TO REMAIN. PREP FINISHED SURFACE AND REPAINT ENTIRE WALL CORNER TO CORNER TO MATCH EXISTING.
3. **WOOD PANEL REPLACEMENT:** REMOVE WALL WOOD PANELING AND INSULATION. REPLACE WALL FINISH WITH GYPSUM BOARD AS SPECIFIED. TAPE, FLOAT, SAND, PRIME AND PAINT AS SPECIFIED IN COLOR TO MATCH EXISTING ADJACENT PAINTED WALLS. PAINT WALLS CORNER TO CORNER.
4. **DOOR REPLACEMENT:** DOORS AND HARDWARE TO BE REMOVED AND REPLACED TO MATCH EXISTING TYPE, STYLE, AND FINISH. ANY SALVAGEABLE HARDWARE IS TO BE TRANSFERRED TO THE NEW DOOR. SEALANTS SHALL BE REMOVED AND REPLACED AS SPECIFIED TO ENSURE WEATHER TIGHTNESS. STORE FRONT DOORS SHALL BE REPLACED IN THEIR ENTIRETY. EXISTING PAINTED DOOR ARE TO BE REPAINTED TO MATCH EXISTING.
5. **SIGNAGE REPLACEMENT:** REMOVE AND REPLACE MISSING AND DAMAGED SIGNS TO MATCH EXISTING. REMOVE ALL DAMAGED AND LEANING POSTS IN ITS ENTIRETY, INCLUDING FOUNDATIONS, AND REPLACE TO MATCH EXISTING. SIGNS UNDAMAGED SHALL BE SALVAGED AND REINSTALLED. FOUNDATIONS TO BE INSTALLED PER SIGNAGE MANUFACTURER REQUIREMENTS. ALL DAMAGED CUSTOM SIGNAGE SHALL BE REMOVED AND REINSTALLED TO MATCH EXISTING. SCUFFED AND SCRATCHED CUSTOM SIGNAGE SHALL BE REPAIRED AND REPAINTED AS SPECIFIED AND IN COLORS TO MATCH EXISTING.
6. **CHAIN-LINK GATE REPLACEMENT:** REPLACE DOUBLE GATE AND HARDWARE. REMOVE AND REPLACE GATE POSTS TO BE LEVEL AND PLUMB. ADJUST GATES TO OPERATE SMOOTHLY, EASILY, AND QUIETLY, FREE OF BINDING, WARP, EXCESSIVE DEFLECTION, DISTORTION, NONALIGNMENT, MISPLACEMENT, DISRUPTION, OR MALFUNCTION, THROUGHOUT ENTIRE OPERATIONAL RANGE. CONFIRM THAT LATCHES AND LOCKS ENGAGE ACCURATELY AND SECURELY WITHOUT FORCING OR BINDING.
7. **CHAIN-LINK FENCING REPLACEMENT:** ALL SECTIONS OF STRETCHED, DEFORMED, AND MISSING CHAIN-LINK MESH ARE TO BE REPLACED BY OVERLAYING NEW FABRIC SECTIONS TO EXISTING. PROVIDE NEW FABRIC TO MATCH EXISTING SIZE AND HEIGHT, MINIMUM 9 GAUGE. ALL CONNECTIONS ARE TO BE INSPECTED ALONG THE ENTIRE LENGTH OF FENCE. INCLUDING BUT NOT LIMITED TO DOME CAPS, LOOP CAPS, RAIL CAPS, TENSION BANDS, TENSION WIRE, ETC. VERIFY ALL FABRIC IS STRETCHED TAUT FREE OF SAG. VERIFY FABRIC IS SECURED TO LINE POSTS WITH METAL FENCE TIES SPACED NO GREATER THAN 12" O.C., TO RAIL SPACED NO GREATER THAN 18" O.C. AND TO TENSION WIRE NO GREATER THAN 18" APART. REPLACE ANY MISSING OR DAMAGED FENCE TIES. ALL CRACKED, BENT, AND MISSING SUPPORTS ARE TO BE REMOVED AND REPLACED ENTIRELY, INCLUDING FOUNDATIONS. MATCH EXISTING PIPE SIZE, HEIGHTS, AND THICKNESS. ALL MATERIALS ARE TO BE GALVANIZED. REMOVE AND REPLACE ALL DAMAGED AND MISSING FENCE TOP SAFETY GUARD AT BALL FIELD FENCING TO MATCH EXISTING; FASTEN PER MANUFACTURER'S RECOMMENDATIONS.
8. **CHAIN-LINK FABRIC REPLACEMENT:** ALL SECTIONS OF STRETCHED, DEFORMED, AND MISSING CHAIN-LINK MESH ARE TO BE REPLACED BY OVERLAPPING NEW FABRIC SECTIONS TO EXISTING. PROVIDE NEW FABRIC TO MATCH EXISTING SIZE AND HEIGHT, MINIMUM 9 GAUGE. ALL CONNECTIONS ARE TO BE INSPECTED ALONG THE ENTIRE LENGTH OF FENCE INCLUDING BUT NOT LIMITED TO DOME CAPS, LOOP CAPS, RAIL CAPS, TENSION BANDS, TENSION WIRE, ETC. VERIFY ALL FABRIC IS STRETCHED TAUT FREE OF SAG. VERIFY FABRIC IS SECURED TO LINE POSTS WITH METAL FENCE TIES SPACED NO GREATER THAN 12" O.C., TO RAIL SPACED NO GREATER THAN 18" O.C. AND TO TENSION WIRE NO GREATER THAN 18" APART. REPLACE ANY MISSING OR DAMAGED FENCE TIES.
9. **PLASTER REPAIRS:** REMOVE ALL LAYERS OF PLASTER AND REPLACE WITH NEW PLASTER AS SPECIFIED. PREP AND PAINT PLASTER SOFFIT IN ITS ENTIRETY AS SPECIFIED.
10. **METAL COVERING REPAIRS:** REMOVE AND REPLACE DEFORMED AND MISSING METAL ROOF PANELS. REMOVE AND REPLACE ALL CRACKED AND BENT SUPPORTS AND CONCRETE FOUNDATIONS. SALVAGE UNDAMAGED MATERIALS FOR REINSTALL. ALL MISSING AND DAMAGED ROOFS AND SUPPORTS ARE TO BE REMOVED AND REPLACED WITH VERTICAL SUPPORTS AND FOUNDATIONS TO MATCH EXISTING. EPOXY ANCHOR OR EXPANSION BOLT ALL DETACHED/LOOSE BASE PLATES AS REQUIRED TO SECURE TO FOUNDATION.
11. **MASONRY REPAIRS:** ALL CRACKED, DAMAGED, AND MISSING MASONRY TO BE REMOVED AND REPLACED TO MATCH THE EXISTING MASONRY AND MORTAR COLOR. ALL LOOSE AND DAMAGED SEALANTS BETWEEN DISSIMILAR MATERIALS SHALL BE REMOVED AND REPLACED AS SPECIFIED TO ENSURE WEATHER TIGHTNESS. SEE UNIT PRICES
12. **WINDOW BLIND REPLACEMENT:** DAMAGED BLINDS ARE TO BE REMOVED AND REPLACED TO MATCH EXISTING AS SPECIFIED.
13. **ACOUSTICAL REPAIRS:** REMOVE AND REPLACE MISSING ACOUSTIC WALL TILE AND GRID AS SPECIFIED.
14. **EXPOSED DECKING:** METAL ROOF DECK INCLUDING METAL TRUSSES ARE TO BE PREPPED AND PAINTED TO MATCH EXISTING AS SPECIFIED.
15. **CMU REPAIRS:** CRACKED CMU BLOCKS AND MORTAR IS TO BE REGROUTED. ALL PAINTED CMU WALLS SHALL BE SAND, PRIMED, AND PAINTED AS SPECIFIED AND IN COLOR AND PATTERN TO MATCH EXISTING. ANY WALL MOUNTED ITEMS ARE TO BE REMOVED FOR PAINTING AND REINSTALLED UPON COMPLETION.
16. **GYPSUM BOARD REPAIRS:** ALL DAMAGED GYPSUM BOARD IS TO BE REMOVED AND REPLACED STUD TO STUD. TAPE, FLOAT, SAND, PRIME AND PAINT AS SPECIFIED IN COLOR TO MATCH EXISTING. PAINT ENTIRE WALL CORNER TO CORNER.
17. **PAINTED FINISHES:** EXISTING WALLS ARE WATER DAMAGED. WALLS ARE TO BE SANDED, PREPARED, AND REPAINTED TO MATCH EXISTING CORNER TO CORNER.
18. **WOOD STAGE REPLACEMENT:** REMOVE AND REPLACE WOOD STAGE FLOORING AND STEPS FINISHED SURFACE IN ITS ENTIRETY TO MATCH EXISTING SIZE AND FINISHED.
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24. **AGGREGATE WALL PANEL REPAIR:** DAMAGED AGGREGATE PANEL TO BE REMOVED BY ABATEMENT CONTRACTOR UNDER SEPARATE CONTRACT. CONTRACTOR TO REPLACE WITH METAL PANEL AND FRAMING AS SPECIFIED. APPLY MASTIC TO CMU WALL AND INSTALL FLAT SHEET GOOD CEMENT FIBRE BOARD WITH METAL STUD FRAMING AS PER MANUFACTURER. SEE ROOM SCHEDULE
25. **SOFFIT REPLACEMENT:** REMOVE AND REPLACE METAL SOFFIT FLUSH PANEL AND TRIM AS SPECIFIED.
26. **TRANSITE PANEL REPLACEMENT:** ABATEMENT CONTRACTOR IS TO REMOVE REMAINING TRANSITE. CONTRACTOR SHALL REMOVE EXISTING METAL PANELS, LOUVERS AND ASSOCIATED FRAMING AND REPLACE WITH METAL WALL PANEL AS SPECIFIED.
27. **CMU MASONRY WALL REPLACEMENT:** REMOVE AND REPLACE CMU MASONRY WALL WHERE INDICATED AS SPECIFIED. SEE STRUCTURAL.
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33. **TRANSITION:** PROVIDE A SLOPED TRANSITION AS SHOWN. NON-SHRINK GROUT AS SPECIFIED.
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35.

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HURRICANE LAURA STORM REPAIRS
ROSTEET ANNEX
FOR
CALCASIEU PARISH SCHOOL BOARD

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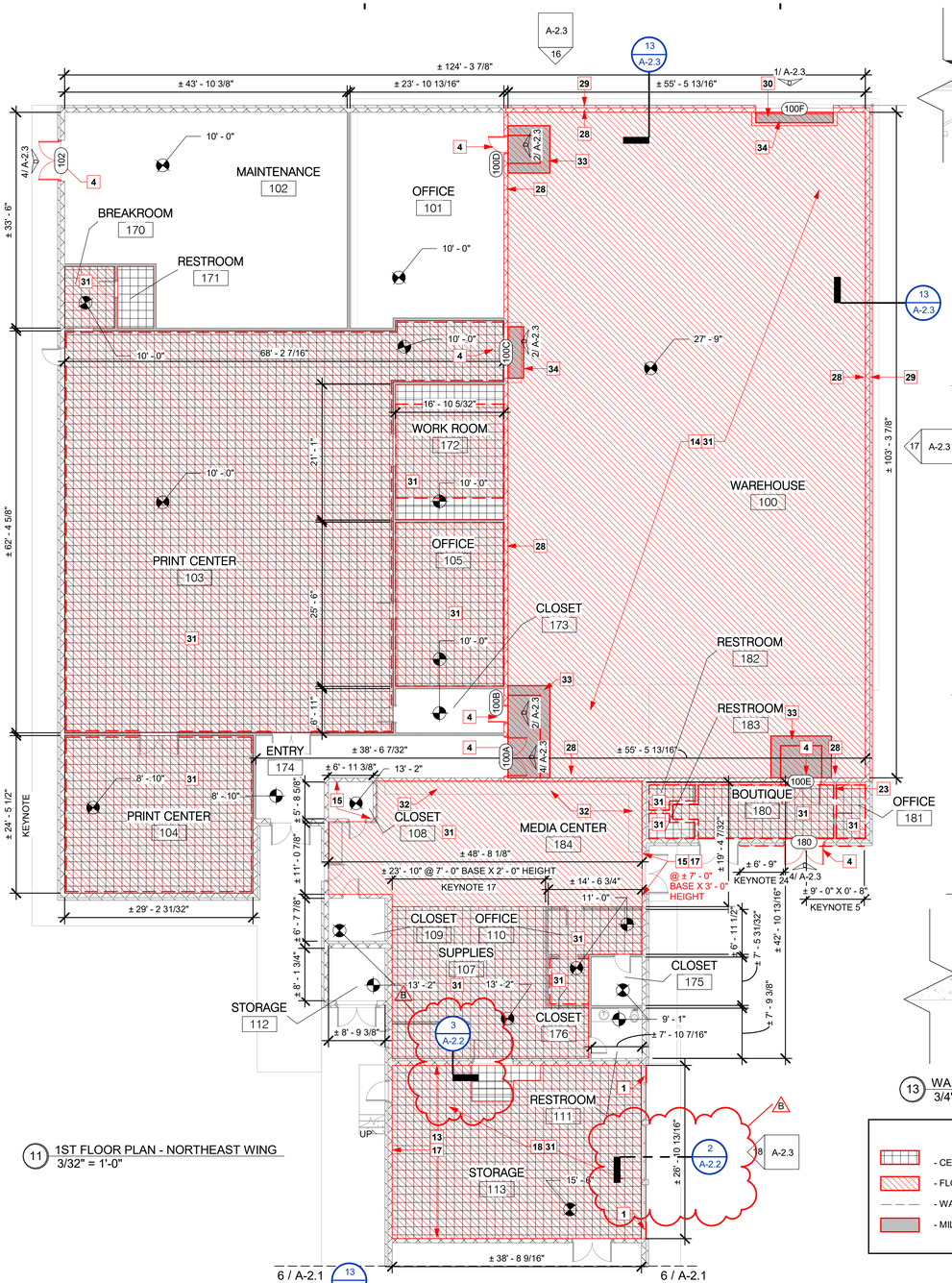
PROJECT NO.
20042-03
OWNER PROJECT NO.
HL-738-02
PROJECT MANAGER
TM
DATE ISSUED
2023.10.30

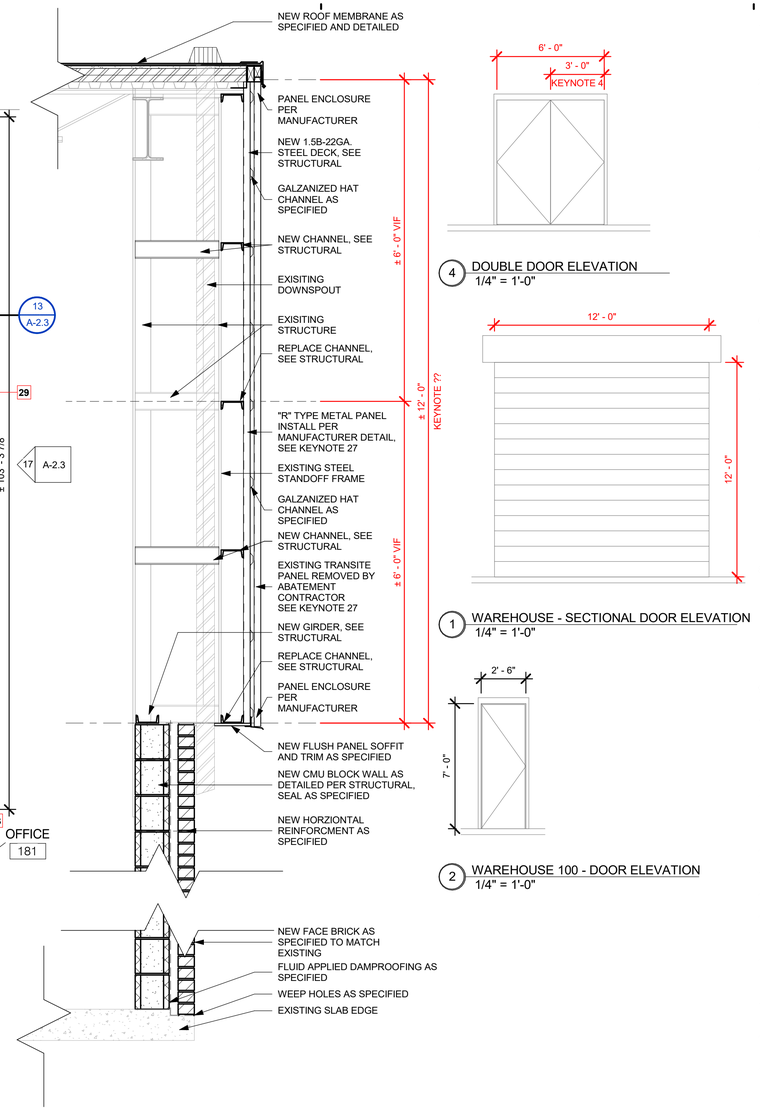
REVISED		
A	Addendum 1	11/30/2023
B	Addendum 2	12/08/2023

B
SHEET NUMBER
A-2.2
1ST FLOOR PLAN

12/8/2023 9:20:53 AM



11 1ST FLOOR PLAN - NORTHEAST WING
3/32" = 1'-0"



13 WAREHOUSE WALL SECTION
3/4" = 1'-0"

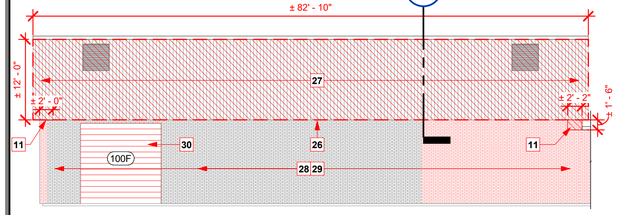
4 DOUBLE DOOR ELEVATION
1/4" = 1'-0"

1 WAREHOUSE - SECTIONAL DOOR ELEVATION
1/4" = 1'-0"

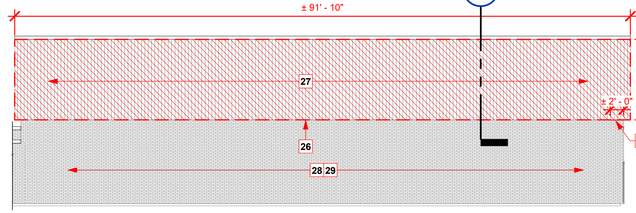
2 WAREHOUSE 100 - DOOR ELEVATION
1/4" = 1'-0"

FLOOR PLAN LEGEND

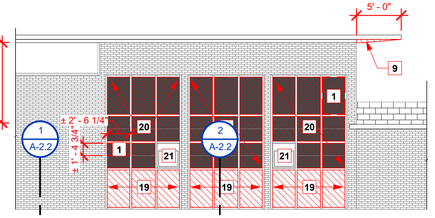
- CEILING REPAIR REQUIRED, SEE ROOM SCHEDULE.
- FLOORING REPAIR REQUIRED. SEE ROOM SCHEDULE.
- WALL/BASE REPAIR REQUIRED. SEE ROOM SCHEDULE.
- MILLWORK REPAIR REQUIRED. SEE ROOM SCHEDULE.



16 WAREHOUSE - NORTH ELEVATION
3/32" = 1'-0"



17 WAREHOUSE - EAST ELEVATION
3/32" = 1'-0"



18 STORAGE - EAST ELEVATION
1/8" = 1'-0"

KEYNOTES

1. **WINDOW REPLACEMENT:** REPLACE BROKEN WINDOW PANES AND GASKETS TO MATCH EXISTING. ALL INDICATED SEALANTS SHALL BE REMOVED BY ABATEMENT CONTRACTOR UNDER SEPARATE CONTRACT. CONTRACTOR SHALL REPLACE WINDOW PANES AS SPECIFIED TO ENSURE WEATHER TIGHT SEAL.
2. **PLASTER FINISH REPAIR:** EXISTING PLASTER SURFACE IS CRACKED. REMOVE AND REPLACE PLASTER FINISH COAT. NEW PLASTER SHALL BE FLUSH AND SMOOTH WITH EXISTING PLASTER TO REMAIN. PREP FINISHED SURFACE AND REPAINT ENTIRE WALL CORNER TO CORNER TO MATCH EXISTING.
3. **WOOD PANEL REPLACEMENT:** REMOVE WALL WOOD PANELING AND INSULATION. REPLACE WALL FINISH WITH GYPSUM BOARD AS SPECIFIED. TAPE, FLOAT, SAND, PRIME AND PAINT AS SPECIFIED IN COLOR TO MATCH EXISTING ADJACENT PAINTED WALLS. PAINT WALLS CORNER TO CORNER.
4. **DOOR REPLACEMENT:** DOORS AND HARDWARE TO BE REMOVED AND REPLACED TO MATCH EXISTING TYPE, STYLE, AND FINISH. ANY SALVAGEABLE HARDWARE IS TO BE TRANSFERRED TO THE NEW DOOR. SEALANTS SHALL BE REMOVED AND REPLACED AS SPECIFIED TO ENSURE WEATHER TIGHTNESS. STORE FRONT DOORS SHALL BE REPLACED IN THEIR ENTIRETY. EXISTING PAINTED DOOR ARE TO BE REPAINTED TO MATCH EXISTING.
5. **SIGNAGE REPLACEMENT:** REMOVE AND REPLACE MISSING AND DAMAGED SIGNS TO MATCH EXISTING. REMOVE ALL DAMAGED AND LEANING POSTS IN ITS ENTIRETY, INCLUDING FOUNDATIONS, AND REPLACE TO MATCH EXISTING; SIGNS UNDAMAGED SHALL BE SALVAGED AND REINSTALLED. FOUNDATIONS TO BE INSTALLED PER SIGNAGE MANUFACTURER REQUIREMENTS. ALL DAMAGED CUSTOM SIGNAGE SHALL BE REMOVED AND REINSTALLED TO MATCH EXISTING. SCUFFED AND SCRATCHED CUSTOM SIGNAGE SHALL BE REPAIRED AND REPAINTED AS SPECIFIED AND IN COLORS TO MATCH EXISTING.
6. **CHAIN-LINK GATE REPLACEMENT:** REPLACE DOUBLE GATE AND HARDWARE. REMOVE AND REPLACE GATE POSTS TO BE LEVEL AND PLUMB. ADJUST GATES TO OPERATE SMOOTHLY, EASILY, AND QUIETLY, FREE OF BINDING, WARP, EXCESSIVE DEFLECTION, DISTORTION, NONALIGNMENT, MISPLACEMENT, DISRUPTION, OR MALFUNCTION, THROUGHOUT ENTIRE OPERATIONAL RANGE. CONFIRM THAT LATCHES AND LOCKS ENGAGE ACCURATELY AND SECURELY WITHOUT FORCING OR BINDING.
7. **CHAIN-LINK FENCING REPLACEMENT:** ALL SECTIONS OF STRETCHED, DEFORMED, AND MISSING CHAIN-LINK MESH ARE TO BE REPLACED BY OVERLAYING NEW FABRIC SECTIONS TO EXISTING. PROVIDE NEW FABRIC TO MATCH EXISTING SIZE AND HEIGHT, MINIMUM 9 GAUGE. ALL CONNECTIONS ARE TO BE INSPECTED ALONG THE ENTIRE LENGTH OF FENCE. INCLUDING BUT NOT LIMITED TO DOME CAPS, LOOP CAPS, RAIL CAPS, TENSION BANDS, TENSION WIRE, ETC. VERIFY ALL FABRIC IS STRETCHED TAUT FREE OF SAG. VERIFY FABRIC IS SECURED TO LINE POSTS WITH METAL FENCE TIES SPACED NO GREATER THAN 12" O.C., TO RAIL SPACED NO GREATER THAN 18" O.C. AND TO TENSION WIRE NO GREATER THAN 18" APART. REPLACE ANY MISSING OR DAMAGED FENCE TIES. ALL CRACKED, BENT, AND MISSING SUPPORTS ARE TO BE REMOVED AND REPLACED ENTIRELY, INCLUDING FOUNDATIONS. MATCH EXISTING PIPE SIZE, HEIGHTS, AND THICKNESS. ALL MATERIALS ARE TO BE GALVANIZED. REMOVE AND REPLACE ALL DAMAGED AND MISSING FENCE TOP SAFETY GUARD AT BALL FIELD FENCING TO MATCH EXISTING; FASTEN PER MANUFACTURER'S RECOMMENDATIONS.
8. **CHAIN-LINK FABRIC REPLACEMENT:** ALL SECTIONS OF STRETCHED, DEFORMED, AND MISSING CHAIN-LINK MESH ARE TO BE REPLACED BY OVERLAPPING NEW FABRIC SECTIONS TO EXISTING. PROVIDE NEW FABRIC TO MATCH EXISTING SIZE AND HEIGHT, MINIMUM 9 GAUGE. ALL CONNECTIONS ARE TO BE INSPECTED ALONG THE ENTIRE LENGTH OF FENCE INCLUDING BUT NOT LIMITED TO DOME CAPS, LOOP CAPS, RAIL CAPS, TENSION BANDS, TENSION WIRE, ETC. VERIFY ALL FABRIC IS STRETCHED TAUT FREE OF SAG. VERIFY FABRIC IS SECURED TO LINE POSTS WITH METAL FENCE TIES SPACED NO GREATER THAN 12" O.C., TO RAIL SPACED NO GREATER THAN 18" O.C. AND TO TENSION WIRE NO GREATER THAN 18" APART. REPLACE ANY MISSING OR DAMAGED FENCE TIES.
9. **PLASTER REPAIRS:** REMOVE ALL LAYERS OF PLASTER AND REPLACE WITH NEW PLASTER AS SPECIFIED. PREP AND PAINT PLASTER SOFFIT IN ITS ENTIRETY AS SPECIFIED.
10. **METAL COVERING REPAIRS:** REMOVE AND REPLACE DEFORMED AND MISSING METAL ROOF PANELS. REMOVE AND REPLACE ALL CRACKED AND BENT SUPPORTS AND CONCRETE FOUNDATIONS. SALVAGE UNDAMAGED MATERIALS FOR REINSTALL. ALL MISSING AND DAMAGED ROOFS AND SUPPORTS ARE TO BE REMOVED AND REPLACED WITH VERTICAL SUPPORTS AND FOUNDATIONS TO MATCH EXISTING. EPOXY ANCHOR OR EXPANSION BOLT ALL DETACHED/LOOSE BASE PLATES AS REQUIRED TO SECURE TO FOUNDATION.
11. **MASONRY REPAIRS:** ALL CRACKED, DAMAGED, AND MISSING MASONRY TO BE REMOVED AND REPLACED TO MATCH THE EXISTING MASONRY AND MORTAR COLOR. ALL LOOSE AND DAMAGED SEALANTS BETWEEN DISSIMILAR MATERIALS SHALL BE REMOVED AND REPLACED AS SPECIFIED TO ENSURE WEATHER TIGHTNESS. SEE UNIT PRICES
12. **WINDOW BLIND REPLACEMENT:** DAMAGED BLINDS ARE TO BE REMOVED AND REPLACED TO MATCH EXISTING AS SPECIFIED.
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HAZARDOUS MATERIAL GENERAL NOTES

- ALL WORK INDICATED AS HAZARDOUS MATERIALS SHALL BE REMOVED BY ABATEMENT CONTRACTOR.
- CONTRACTOR IS TO COORDINATE WITH ABATEMENT CONTRACTOR FOR ABATEMENT WORK TO BE PERFORMED IN CONJUNCTION WITH THIS CONTRACT.
- COORDINATE SCHEDULED WORK WITH ABATEMENT CONTRACTOR AS TO NOT EXPOSE ANY EXTERIOR COMPONENTS TO THE WEATHER MORE THAN REQUIRED FOR REPAIRS.
- ABATEMENT OF INTERIOR COMPONENTS WILL NEED TO BE COORDINATED WITH CONTRACTOR'S PHASING PLAN FOR INTERIOR REPAIRS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING BUILDING STRUCTURE AND INTERIOR FINISHES FROM ANY INCLIMATIC WEATHER AT ALL TIMES.

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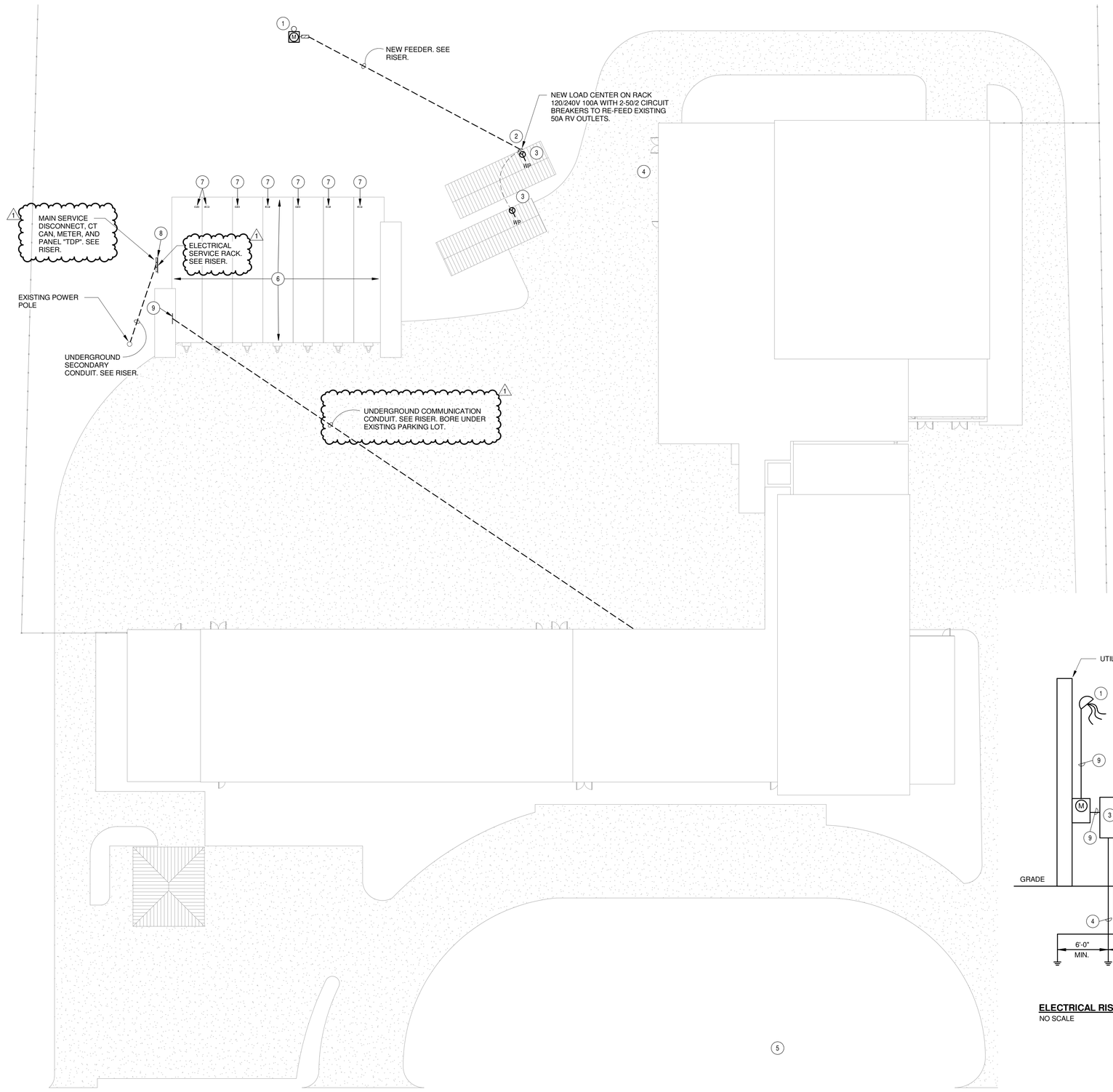


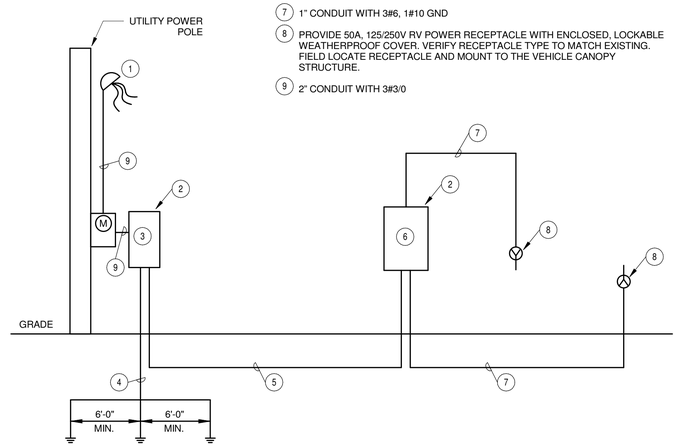
1 Mechanical & Electrical Site Plan Repairs
1" = 20'-0" Refer to Architectural Drawings for All Dimensions

MECHANICAL & ELECTRICAL KEYNOTES:

1. REPLACE EXISTING DAMAGED SECONDARY UTILITY POWER POLE, METER AND OUTDOOR LOADCENTER IN THIS AREA. SEE RISER.
2. REMOVE AND REINSTALL EXISTING ELECTRICAL PANEL MOUNTED TO SIDING THAT IS DAMAGED. SEE RISER.
3. REPLACE BROKEN RV RECEPTACLE AND ASSOCIATED CIRCUIT. VERIFY EXISTING RECEPTACLE TYPE. SEE RISER.
4. REPLACE DAMAGED PIPE CHASE FOR SUMP PUMP CORD AND PLUG IN THIS AREA.
5. REPLACE DAMAGED HOT BOX ENCLOSURE FOR BACKFLOW PREVENTER.
6. AT THE COMPLETION OF CONSTRUCTION, THE TEMPORARY BUILDINGS WILL BE DECOMMISSIONED AND ALL ELECTRICAL CONNECTIONS AND COMMUNICATIONS WIRING REMOVED. OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL ELECTRICAL AND COMUNICATIONS MATERIALS BEING REMOVED.
7. AT THE COMPLETION OF CONSTRUCTION, DISCONNECT TEMPORARY BUILDING ELECTRICAL PANEL, AND REMOVE ASSOCIATED FEEDER CONDUIT AND WIRING COMPLETELY.
8. AT THE COMPLETION OF CONSTRUCTION, REMOVE TEMPORARY BUILDING ELECTRICAL SERVICE RACK AND ASSOCIATED EQUIPMENT, CONDUIT, WIRING, ETC. REMOVE SECONDARY CONDUIT AND WIRING BACK TO EXISTING POWER POLE.
9. COORDINATE WITH OWNER PRIOR TO REMOVAL OF THE COMMUNICATIONS EQUIPMENT AND CABLE AT THE TIME OF TEMPORARY BUILDING DECOMMISSIONING, REMOVE FIBER OPTIC CABLE BETWEEN BUILDINGS. TERMINATE COMMUNICATIONS CONDUIT BELOW GRADE WITHIN AN IN-GRADE COMMUNICATION PULLBOX. PROVIDE PULL BOX.

ELECTRICAL RISER NOTES:

1. COORDINATE ALL ASPECTS OF SERVICE AND METERING WITH POWER COMPANY. ELECTRICAL CONTRACTOR SHALL PROVIDE METERING C.T. CABINETS AND UNISTRUT RACK(S) IN CONCRETE FOOTINGS.
2. INSTALL LOADCENTER AND METER BASE ON UNISTRUT RACK AT POLE.
3. PROVIDE AND INSTALL A 200A, 20 CIRCUIT, 120/240V, 10KAIC LOADCENTER WITH NEMA 3R ENCLOSURE, 200A MCB , 1-100/2 CIRCUIT BREAKER, 1-70/2 CIRCUIT BREAKER, AND 2-20/1 CIRCUIT BREAKERS. FURNISH AND INSTALL 1-20A 120V , GFCI PROTECTED, WR TYPE CONVENIENCE OUTLET WITH WEATHERPROOF COVER AT PANEL WITH 3#12 IN 1/2" CONDUIT TO ONE OF THE 20/1 BREAKERS.
4. 3/4" CONDUIT WITH #4 CU TO (3) 3/4" X 10' COPPER CLAD GROUND RODS
5. 1 1/2" CONDUIT WITH 3#2, 1#8 GND TO A 100/2 CIRCUIT BREAKER
6. PROVIDE AND INSTALL A 100A, 12 CIRCUIT, 120/240V, 10KAIC LOADCENTER WITH NEMA 3R ENCLOSURE AND 2-50/2 CIRCUIT BREAKERS TO SERVE THE RV RECEPTACLES, AND 1-20/1 CIRCUIT BREAKER. FURNISH AND INSTALL 1-20A 120V, GFCI PROTECTED, WR TYPE CONVENIENCE OUTLET WITH WEATHERPROOF COVER AT PANEL WITH 3#12 IN ½" CONDUIT TO THE 20/1 BREAKERS.
7. 1" CONDUIT WITH 3#6, 1#10 GND
8. PROVIDE 50A, 125/250V RV POWER RECEPTACLE WITH ENCLOSED, LOCKABLE WEATHERPROOF COVER. VERIFY RECEPTACLE TYPE TO MATCH EXISTING. FIELD LOCATE RECEPTACLE AND MOUNT TO THE VEHICLE CANOPY STRUCTURE.
9. 2" CONDUIT WITH 3#3/0



ELECTRICAL RISER
NO SCALE

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Mechanical Contact: Dustin Duval, P.E.
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REG. NO. 41691
REGISTERED PROFESSIONAL ENGINEER
12/7/23
ELECTRICAL ENGINEERING

HURRICANE LAURA STORM REPAIRS
ROSTEET ANNEX
ROOFING, FACADES & GYM INTERIOR REPAIRS
FOR
CALCASIEU PARISH SCHOOL BOARD
LAKE CHARLES, LA
HL-738-01, 02

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PROJECT NO.
20042-03-A
OWNER PROJECT NO.
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PROJECT MANAGER
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1	Addendum Revisions	12-07-2023

SHEET NUMBER
A-ME1
MECHANICAL & ELECTRICAL SITE PLAN

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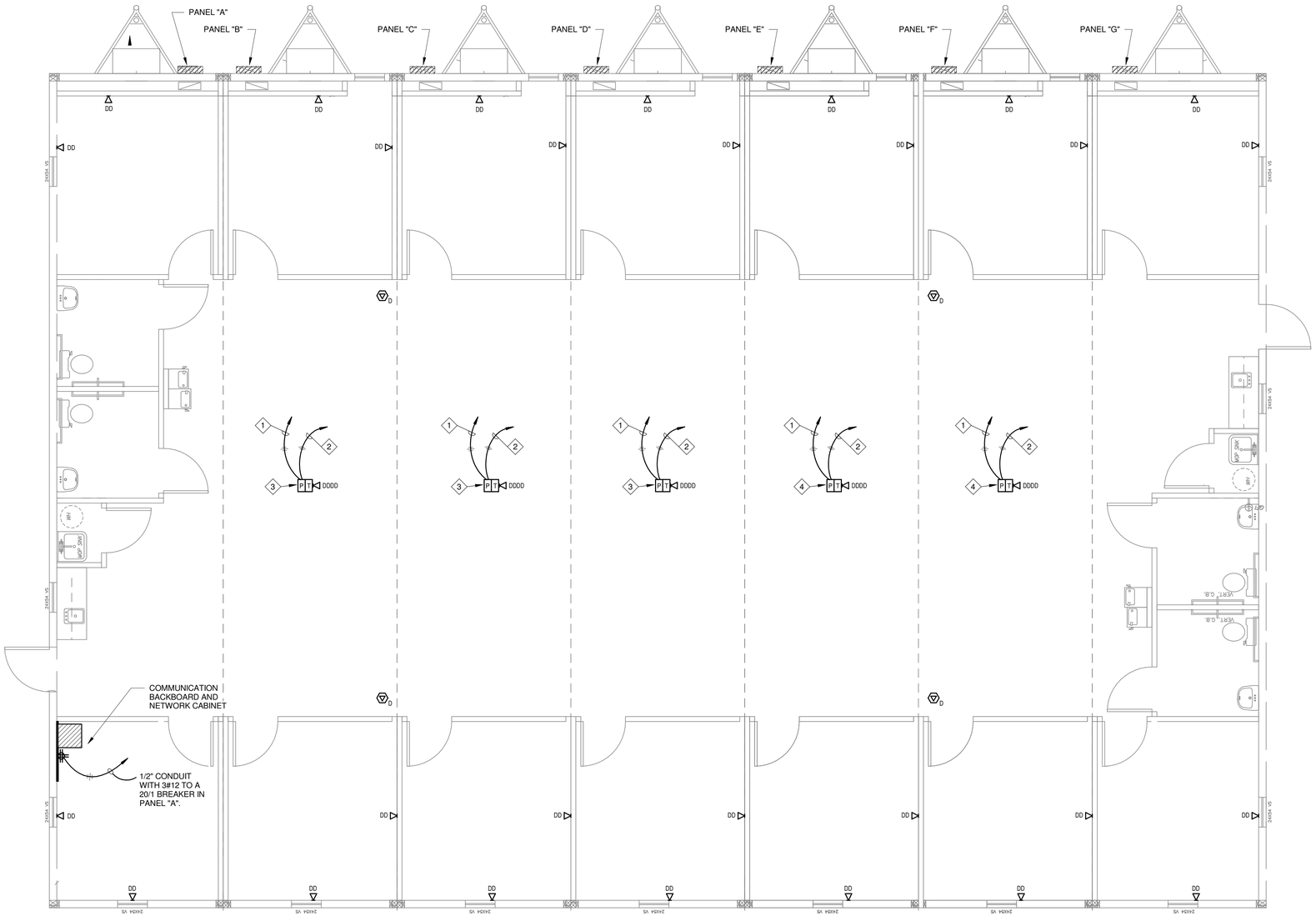
ELECTRICAL LEGEND

SYMBOL	POWER DESCRIPTION
	DOUBLE DUPLEX CONVENIENCE OUTLET (18" A.F.F. OR AS NOTED)
	SPECIAL OUTLET (VERIFY TYPE WITH EQUIPMENT MANUFACTURER)
	ELECTRICAL PANEL SURFACE MOUNTED
	ELECTRICAL PANEL FLUSH MOUNTED
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT RUN CONCEALED UNDER FLOOR OR BELOW GRADE
	HOMERUN TO ELECTRIC PANEL BOARD (INDICATED NUMBER OF CIRCUIT BY NUMBER OF ARROWS)
	THREE (3) CONDUCTORS RUN IN CONDUIT. EVERY CIRCUIT TO HAVE A GROUND, SHARED NEUTRAL IS NOT ALLOWED.
TP	TELEPHONE/POWER POLE: COORDINATE EXACT MOUNTING LOCATION WITH OWNER. MAKE FINAL CONNECTIONS. WIRE MOLD: 30TP-4V

SYMBOL	SPECIAL SYSTEMS DESCRIPTION
▽ XX	COMMUNICATIONS OUTLET - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE/PULLSTRING IN 1" CONDUIT TO ACCESSIBLE CEILING (18" A.F.F OR AS NOTED) - PROVIDE A BLANK PLATE OR XX DENOTES CABLE TYPE AND QUANTITY; P=PHONE, D=DATA, C=COAX REFER TO SPECIFICATIONS
▽D XX	DATA JACK ABOVE CEILING W/ 30' OF SLACK (FUTURE WIRELESS ACCESS POINT) XX - DENOTES CABLE QUANTITY
XX	SURVEILLANCE CAMERA - DEEP 4" SQUARE BOX WITH SINGLE GANG PLASTER RING WITH CABLE IN 3/4" CONDUIT TO ACCESSIBLE CEILING. VERIFY HEIGHT WITH ENGINEER. XX - DENOTES CABLE TYPE AND QUANTITY

ELECTRICAL KEYNOTES

1. 1/2" CONDUIT WITH 3#12 TO A 20/1 CIRCUIT BREAKER IN ASSOCIATED TEMP BUILDING ELECTRICAL PANEL. PROVIDE CIRCUIT BREAKER.
2. 3/4" CONDUIT WITH 3#10 TO A 30/1 CIRCUIT BREAKER IN ASSOCIATED TEMP BUILDING ELECTRICAL PANEL. PROVIDE CIRCUIT BREAKER.
3. TELE/POWER POLE SHALL HAVE 2-20A 120V DUPLEX RECEPTACLES AND 1-30A 120V TWIST LOCK RECEPTACLE. VERIFY 30A RECEPTACLE TYPE WITH OWNER'S EQUIPMENT. VERIFY FINAL LOCATION OF TELE/POWER POLE WITH OWNER PRIOR TO INSTALLATION.
4. TELE/POWER POLE SHALL HAVE 2-20A 120V DUPLEX RECEPTACLES AND 1-30A 120V NON-LOCKING RECEPTACLE. VERIFY 30A RECEPTACLE TYPE WITH OWNER'S EQUIPMENT. VERIFY FINAL LOCATION OF TELE/POWER POLE WITH OWNER PRIOR TO INSTALLATION.



1 Mechanical & Electrical Plan - Temp Building
1/4" = 1'-0" Refer to Architectural Drawings for All Dimensions

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ROSTEET ANNEX
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PROJECT No.: 20109.00

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ELECTRICAL PLAN

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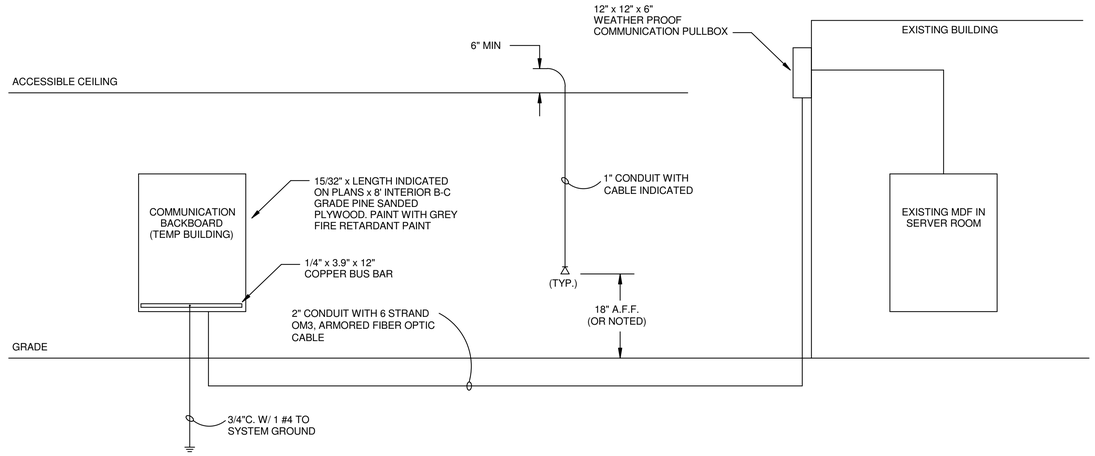


COMMUNICATIONS RISER
NO SCALE

Branch Panel: TDP

Location:
Mounting: Surface
Enclosure: NEMA 3R

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 600 A

Notes:

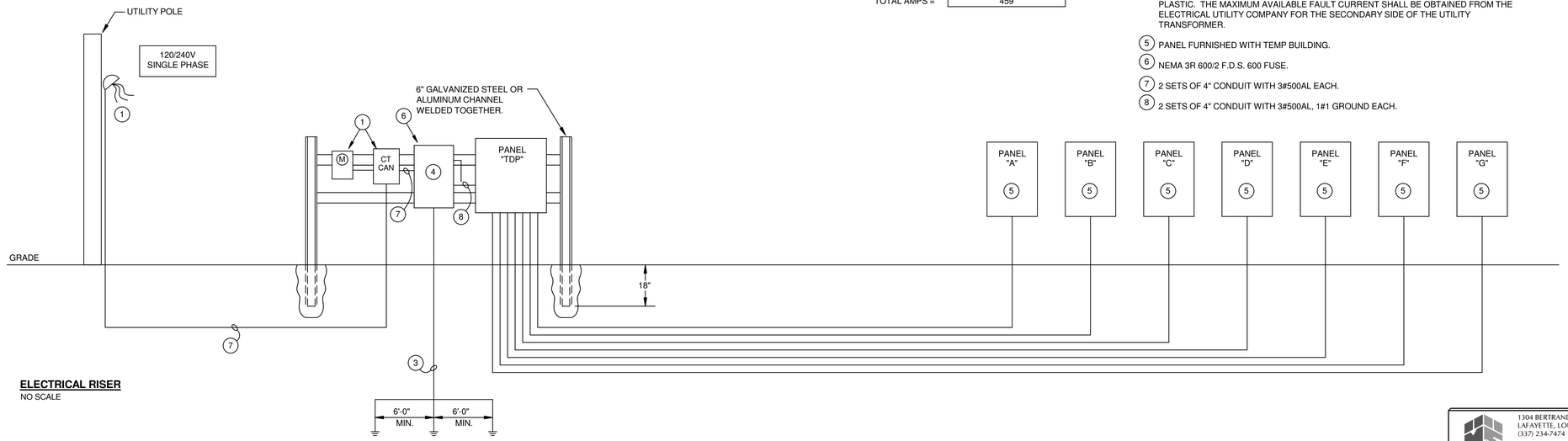
CKT	Circuit Description	Trip	Poles	Wire	Conduit	A		B		Conduit	Wire	Poles	Trip	Circuit Description	CKT
1	PANEL "A"	125	2	3#1/0	2"	0	0			2"	3#1/0	2	125	PANEL "B"	2
3	--	--	--	1#6	--			0	0	--	1#6	--	--	--	4
5	PANEL "C"	125	2	3#1/0	2"	0	0			2"	3#1/0	2	125	PANEL "D"	6
7	--	--	--	1#6	--			0	0	--	1#6	--	--	--	8
9	PANEL "E"	125	2	3#1/0	2"	0	0			2"	3#1/0	2	125	PANEL "F"	10
11	--	--	--	1#6	--			0	0	--	1#6	--	--	--	12
13	PANEL "G"	125	2	3#1/0	2"	0									14
15	--	--	--	1#6	--			0							16
17															18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
	Total Load:					0 kVA		0 kVA							
	Total Amps:					0 A		0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 kVA
				Total Est. Demand:	0 kVA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

LOAD SUMMARY (120/240V - SINGLE PHASE - 3 WIRE)			
SERVING	CONNECTED (KVA)	MULTIPLIER	DEMAND (KVA)
LIGHTING	7	1.25	8.75
OUTLETS	15	[(X-10)/2]+10	12.5
WATER HEATER	9	1.0	9
AIR HANDLING UNIT (ELEC HEAT)	80	1.0	80
CONDENSING UNITS			
		TOTAL KVA =	110.25
		TOTAL AMPS =	459



ELECTRICAL RISER
NO SCALE

ELECTRICAL RISER NOTES:

1. COORDINATE ALL ASPECTS OF SERVICE AND METERING WITH POWER COMPANY. ELECTRICAL CONTRACTOR TO PROVIDE METERING C.T. CABINETS AND UNISTRUT RACK(S) IN CONCRETE FOOTINGS.
2. REFER TO PANEL SCHEDULES FOR FEEDER SIZES, INSTALL PROPERLY SIZED NEUTRALS AND GROUNDING CONDUCTORS WITH ALL FEEDERS.
3. 1/0 CU. GROUND IN 3/4" CONDUIT TO (3)3/4"x10' COPPER CLAD GROUND RODS AND BUILDING STEEL.
4. THE CONTRACTOR SHALL LABEL THE MAIN SERVICE DISCONNECTING MEANS WITH THE MAXIMUM AVAILABLE FAULT CURRENT, AND IT SHALL BE LISTED ON THE DEVICE TO MEET THE REQUIREMENTS OF NFPA 70:110.24. THE LABELING SHALL BE ENGRAVED PLASTIC. THE MAXIMUM AVAILABLE FAULT CURRENT SHALL BE OBTAINED FROM THE ELECTRICAL UTILITY COMPANY FOR THE SECONDARY SIDE OF THE UTILITY TRANSFORMER.
5. PANEL FURNISHED WITH TEMP BUILDING.
6. NEMA 3R 600/2 F.D.S. 600 FUSE.
7. 2 SETS OF 4" CONDUIT WITH 3#500AL EACH.
8. 2 SETS OF 4" CONDUIT WITH 3#500AL, 1#1 GROUND EACH.

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CONSULTING
PROJECT No.: 20109.00

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ELECTRICAL SCHEDULE & RISERS

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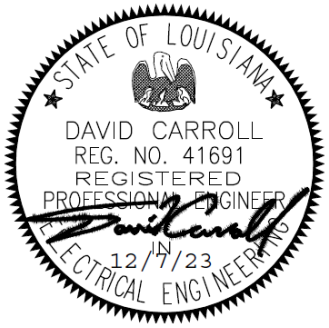

Section 27 13 00 – Voice and Data Systems

PART 1 - GENERAL

1.1 SUMMARY:

A. This section includes the following: Inside station cables, multi-pair inside telephone cables, fiber optic cable, backboards, racks, inner duct, cross connects and outlets for voice and data use to each station outlet location as shown on the Drawings.

1. Conduits for voice and data between buildings as shown on the Drawings or as indicated in specifications.

2. Backboards, relay rack, mounting brackets and associated hardware for bundling, racking and cross-connecting data cables as shown on the Drawings or as indicated in specifications.

3. Fiber cables, fiber distribution panels, and associated hardware for bundling, racking and terminating fiber cable as shown on the Drawings.

4. Category 6, four-pair communications cable (for voice) and Category 6 (Cat 6), four-pair communications cable (for data) to each voice/data outlet location as indicated on Drawings. Furnish a four (4) position face plate at each location.

5. 4 position, 8 conductor (4 pair) modular voice/data jacks at each telephone/data outlet shown on Drawings and as specified herein.

6. Single, 8 conductor (4 pair) modular voice jack at each telephone only outlet shown on Drawings and as specified herein.

7. Relay racks with patch panels, and wire management frame for terminating data and voice station cables.

8. Duplex receptacles and ground bus, and connection of ground bus to building system.

1.2 QUALITY ASSURANCE:

A. All work and equipment shall conform to the applicable portions of the following specifications, codes and regulations:

1. Building Industry Consulting Services International (BICSI)
2. Telecommunications Distribution Methods Manual
3. BOCS and AT&T Plant Standards
4. ANSI/EIA/TIA Standards
5. National Electrical Code (NEC)
6. State Codes

B. Maintenance Considerations:

1. The cable and wire system shall be installed to maximize the safety, maintainability, and

performance effectiveness of maintenance personnel and minimize the demands upon skills, training, and manpower. Splices/terminations shall be placed and supported with convenient accessibility so as to maximize the efficiency and ease with which it can be maintained. No cables shall be spliced unless as shown on plans or approved by Engineer.

C. Cable and wire identification, testing, and documentation shall be specified in Part 3.00 herein.

1.3 SHOP DRAWINGS:

A. Shop drawings shall be submitted for review and shall include complete catalog and other information shown to describe the cables, wire, and equipment proposed to be furnished and numbered locations for all data and voice locations.

PART 2 - PRODUCTS

2.1 VOICE/DATA STATION CABLE:

A. Voice/Data station wiring shall be Category 6 (Cat 6) communications wire and cable. Station Cable shall be four-pair, unshielded, twisted pair, inside-station cable, and shall be constructed of solid 23 gauge annealed copper. Each conductor shall be insulated with a continuous layer of fluorinated ethylene propylene (FEP). The sheath shall be all weather, flame resistant, polyvinyl chloride. Station wire shall be constructed of 4 twisted pair sharing one sheath. Voice/Data cable shall be terminated in a 110 rack mounted patch panel. The use of 66 or 110 patch panels is not allowed for station. Cable shall have Category 6 transmission characteristics as specified by ANSI/EIA/TIA-568B and meet the following performance characteristics. General Cable GenSpeed 6500, Hubbell NEXTSPEED or prior approved equal.

Highest Test Freq.	350 MHz
Min. 10dB ACR Power Sum	100 MHz
Min. 0dB ACR Power Sum	165 MHz
Attenuation less than/equal to 33dB	200 MHz

B. Cables shall have a sheath and conductor insulation constructed of material so as to be classified as type CMP as defined by the NEC 800-3(b)(3).

C. Cable jacket color shall be as follows:

Blue	Data
Pink	Cameras

Final color shall be approved by the engineer in shop drawings. Engineer has the right to change color of the cables.

2.2 CROSS-CONNECT WIRE:

A. Cross-connect wire and fiber jumpers shall be furnished and installed by Contractor. Contractor shall provide enough patch cables and fiber jumpers for all possible connections. Cross-connect must be factory certified Category 6 for voice connections and compatible with Category 6 for data wiring. The fiber jumper shall be a duplex, buffered, graded-index fiber, Kevlar yarn over each

fiber cladding, and a flame-retardant PVC jacket.

2.3 COMMUNICATIONS OUTLET:

A. Telephone and data outlets shall be a combination voice/data communication unit. Wall mounted outlets shall be flush mounted in a double gang utility box and covered with voice and data device plates. Raceway mounted outlets shall be flush mounted and covered with voice and data device plates. Complete outlet shall consist of utility box, communication assembly devices, cover plate, and jack inserts. All voice/data outlet inserts shall be eight (8) position/eight (8) conductor, insulation displacement, Hubbell part number HXJ6xx only, EIA/TIA 568B Category 6 compliant.

B. Communications outlets shall be furnished by one manufacturer. Outlet shall be furnished with 4-position, Category 6 compliant, RJ-45 modular jacks. Each outlet shall consist of voice jacks and data jacks in the locations as shown on Drawings. Voice only outlets shall consist of one (1) voice jack. Data jacks shall be compatible with Category 6 wiring.

C. Outlets shall consist of the following items:

1. Face Plate.
2. Data Jack Inserts.
3. Voice Jack Inserts.
4. Blank Inserts.
5. Outlets shall have circuit identification holders and labels.

D. The device plate colors shall be as selected by architect per space.

2.4 CONNECTING BLOCKS:

A. Voice feeder and station cables shall be terminated on Category 6 compliant, type 110 patch panels. All panels shall be 48-port type.

B. The patch panels shall support 100 MHz cross connect transmission for UTP cabling systems utilizing Category 6 performance rated cable. Terminations shall use 110-IDC (Insulating Displacement Connector) field made continuous to the 8-pin modular jack on front of panel via Printed Circuit interconnections. The panel shall mount on nineteen (19") inch rack and be fully EIA/TIAT568B compliant. Panels will be T568B wiring.

2.5 RELAY RACK:

A. Relay rack shall be an enclosed, lockable network cabinet with dual fans for ventilation -CPI CUBE-IT+Wallmount Cab and Plexi-Glass Door with CUBE-IT rack fan kit.

2.6 FIBER BREAK-OUT KIT:

A. Fiber break-out kits shall be used to terminate fiber into protective buffer tubes. Kit permits separation and protection of individual fiber elements. Kits shall be Siecor, Belden, AT&T, Corning or approved equal.

2.7 PATCH PANELS:

A. The patch panels shall be Panduit NetKey Modular Faceplate Patch Panel – 2U, 19".

2.8 FIBER OPTIC CABLE:

A. Fiber optic cable shall be as shown on the Drawings, breakout style suitable for indoor/outdoor applications. Each individually jacketed fiber shall contain Kevlar strength member to allow direct termination of cable. Cable shall be UL listed and constructed in accordance with EIA/TIA 568 requirements.

B. Fiber optic cables shall meet the following requirements:
Multi-Mode shall be OM3 for up to 500 meters and OM4 for over 500 meters

2.9 FIBER CONNECTORS

A. Fiber cable connectors shall be LC style connectors.

B. Provide the following: Gbic/SFP – Dell SFP-10G-SR-SO – SDP0 Dell-compatible, 10GBASE-SR-SFP+ for multimode fiber, 850nm, 550m, LC duplex connector, DOM, Solid Optics Dell-SFP-10G-SR-SO-10G-SR-SO.

PART 3 - EXECUTION

3.1 INSTALLATION:

A. Unless otherwise specified, all communications systems shall be permanently installed and connected to the wiring systems. The systems must be installed according to manufacturer standards and recommendations.

3.2 TELEPHONE/DATA SYSTEM GENERAL REQUIREMENTS:

A. All cables, wires, and equipment shall be securely and neatly installed. Inside routing shall be installed parallel and perpendicular to existing structural lines and members.

B. Each station wire shall be plainly marked at its patch panel end with the room number to which it is connected, and terminated on the termination blocks or patch panel.

C. Voice/data cables shall be routed above ceilings utilizing cable hooks. Cables must not be secured to hooks. Provide hooks a minimum of four feet on center.

D. Contractor shall maintain recommended Category 6 bending radius, pulling tension, and cable support requirements. Cable ties may be finger tight, however, not so tight so they distort the outer jacket of the cable.

E. Cable suspended above an open ceiling shall not rest on ceiling tiles or lighting fixtures, and shall be supported from roof structure at 4' intervals.

F. Voice/data system wiring shall be installed in accordance with NEC Article 800-5 and 6 requirements.

3.3 TELEPHONE/DATA CABLE INSTALLATION:

A. Station cable installation shall consist of the following:

1. All conduits stubbed up in ceiling spaces shall have conduit bushing at end of conduit.

2. From the outlet location to the telephone backboard, Contractor shall furnish and install voice and data cables as per Drawings. Voice only stations shall have one (1), four (4) pair station cable.

3. Each cable shall also be labeled per face plate detail.

4. Voice jack shall be installed in top left position at each location.

5. At modular furniture locations contractor shall provide outlets and cable indicated on the drawings. Cable shall be installed and terminated in the modular furniture complete from outlet to patch panel. Contractor to install cable in modular furniture raceway then to flexible conduit and to a junction box in adjacent wall. Refer to detail on drawings.

6. Provide 4'-0" of slack at each outlet location. Slack shall be in ceiling space.

3.4 FIBER CABLE INSTALLATION:

A. Fiber cables shall be terminated using SC type connectors. Connectors shall be attached using hot melt, ultraviolet, epoxy or heat curable.

B. All multi-mode fiber cables shall be terminated at both ends and Contractor shall coordinate termination of fibers at source end.

3.5 COMMUNICATIONS SYSTEM QUALIFICATIONS:

A. The communications system installer shall be experienced in the design, fabrication and installation of communications premise distribution systems of similar size and scope to this project. Installation technicians shall be manufacturer certified in At & T Systimax Structured Cabling System, AMP Netconnect Cabling System, Siecor wiring systems, or equal.

3.6 CABLE/WIRE IDENTIFICATION:

A. The following labeling procedure shall be completed by the Contractor after each cable has been installed and connected:

1. Each cable pair shall be plainly marked at the patch panel end.

2. All outlets shall be permanently marked or labeled on the jack faceplate ID number.

3. All cables shall be legibly and permanently labeled at each end using wrap-around/stick-on label systems or approved equal.

4. In rooms where more than one jack exists, the jacks shall be labeled per the faceplate detail.

5. All conduits, except those used for individual station jacks, shall be clearly and permanently

marked or labeled at both ends, indicating the location of the other end of the conduit.

B. All cable and wiring identification shall be in compliance with ANSI/TIA/EIA 606 Structured Cabling System standards. No hand-written labels will be accepted on face place and patch panels.

3.7 DOCUMENTATION AND TESTING:

A. Upon completion of construction, the Contractor shall provide "as installed" drawings showing the exact placement of all outlets, cables, conduits and connecting hardware called for in this section.

B. Voice and data wiring shall be tested upon completion of installation. In order for any voice cable to be accepted, the number of defective pairs shall be limited to a maximum of one percent (1%) of the total number of pairs in the cable. Any cable having more than the maximum acceptable number of defective pairs shall be replaced at the Contractor's expense. The cable test results shall be provided with the "as installed" drawings upon the completion of construction.

C. Voice and Data station cables shall contain no defective pairs.

D. Testing Procedures

1. Testing shall be performed in the presence of a representative as designated by the architect or engineer. Sufficient advanced notice of test dates shall be provided to coordinate test dates.

2. All voice (station, riser & outside plant) cables and associated connection hardware shall be tested and documented by the Contractor. The test procedure shall demonstrate as a minimum:

   a. Continuity (more than 2,600 ohms is considered an open)
   b. Shorts (60,000 ohms or less is considered a short)
   c. Proper polarity (tip and ring correct)Proper polarity (tip and ring correct)
   d. Proper termination (splits & wrong terminations)
   e. Proper ground and shield bonding
   f. Grounded conductors (60,000 ohms or less to ground is considered a fault)
   g. Detection of A/C or DC power on any conductor (power fault test)
   h. User's equipment must function normally when connected to the installed wiring

3. All UTP data station and riser cables and associated connection hardware shall be tested to certify the performance category of the link as installed. All Category 6 station cables shall be tested in accordance with procedures laid out in EIA/TIA 568B.2-1. Written (printed) test results for each cable shall include all of the field test parameter results. Any cable that fails testing shall be reported along with the procedures used to rectify the failure (IE. Replaced cable, re-terminated the jack, etc.). Contractor tests shall utilize a category six (6) complaint cable tester. Fluke and HP are approved tester. Electronic results for each UTP Category 6 four pair cable shall be submitted as a part of the Contractors as built project performance acceptance records. In addition to the above information the documentation shall include a pass/fail indication for the specified cable, the test date, the serial number and software version of the scanner used, and a copy of the calibration certificate of the scanner. Necessary applications for reading the results shall be provided by the Contractor. This document can be found in the EIA/TIA Telecommunications Building Wiring Standards.

4. The Contractor shall test, certify and document each fiber optic conductor to meet the following attenuation specifications:

    a. Power meter test: (cable length per 1000'times 1.22) + connector loss + splice loss= acceptable loss in dB@850 nm, nominal. End-to-end testing shall include all connectors and jumpers. The Contractor shall supply all required meters, jumpers and light sources for this test.
    b. OTDR Test shall be performed by the Contractor on each fiber strand and on each fiber segment installed at both 850 nm and 1300 nm for multimode cable. If single mode cable is installed OTDR tests shall be performed at both 1310 nm and 1510 nm. Two sets of hard copy printouts of the OTDR graphs for each fiber strand shall be presented to the A/E. Fiber termination made on site shall be of factory quality and tested for attenuation loss not to exceed 0.5 dB per mated connection at 1300 nm for multimode fiber and 1550 nm for single mode fiber. Fiber connector terminations shall be made by a factory trained technician with ample field experience. Fiber technician certification shall be submitted to the A/E with the fiber test documentation.

E. Prior to testing of any communications cable/wire and hardware, the Contractor shall notify The Architect in writing, at least two (2) weeks in advance of testing. Contractor shall furnish hard copy of all test reports to Architect for approval prior to completion and final acceptance of project.

F. Submit documentation regarding the manufacturer's extended warranty. The length of the extended warranty shall be a minimum of twenty (20) years. The documentation shall include a sample of the warranty that shall be provided to the Owner when the installation is complete, as well as procedures for handling warranty issues. The warranty shall be for the complete system.

END OF SECTION 27 13 00

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