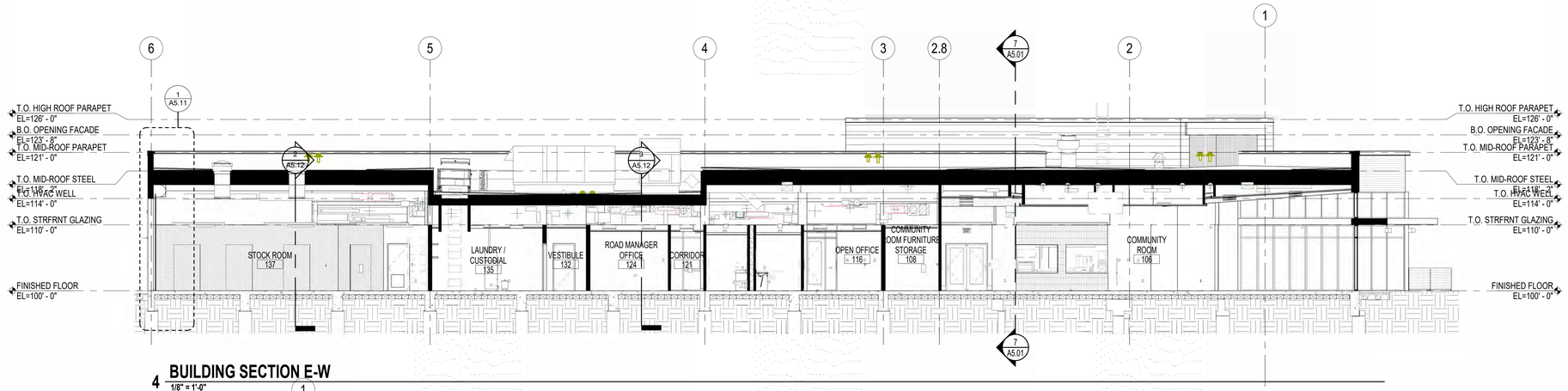
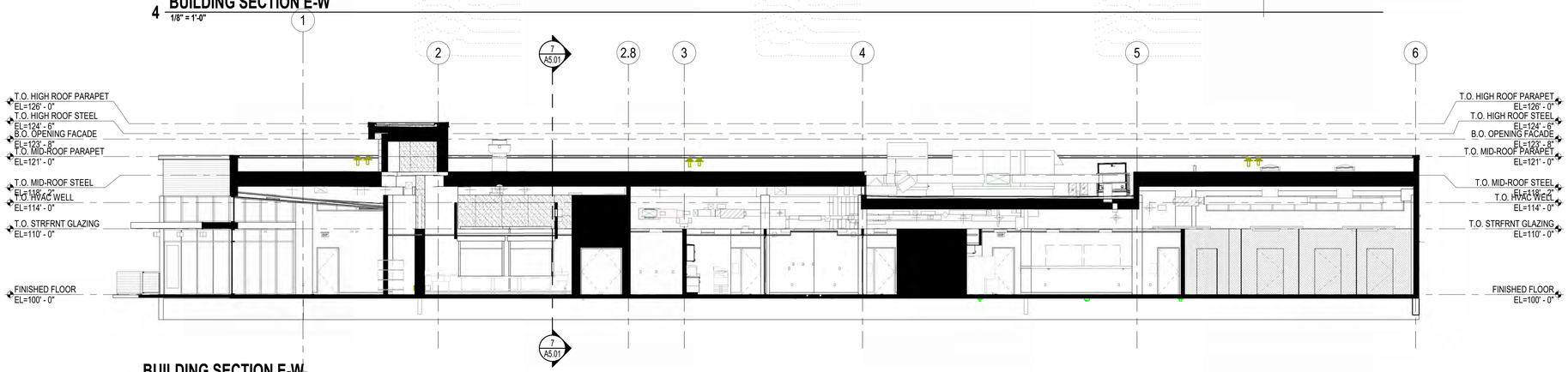
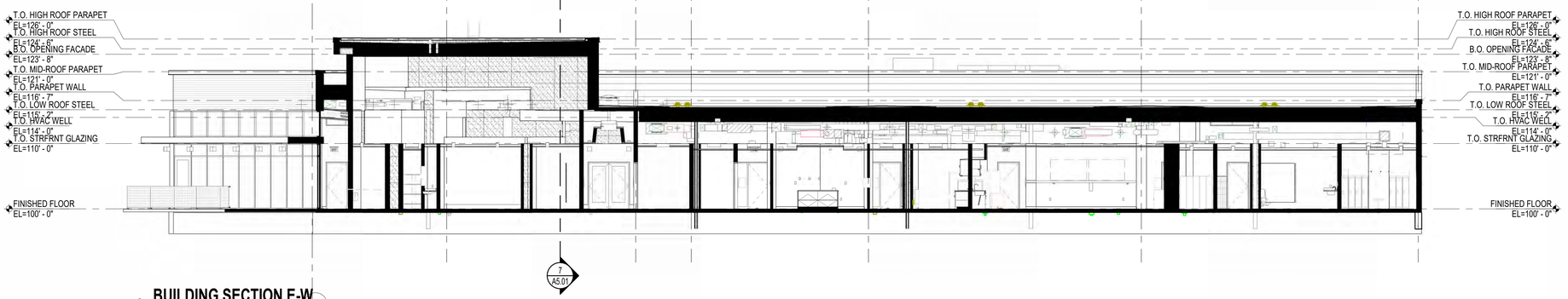


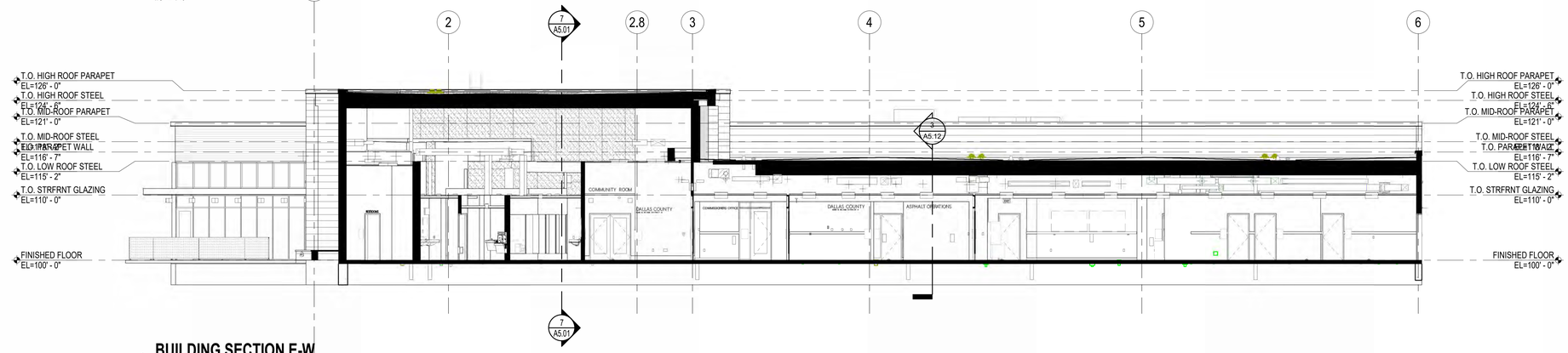
4 **BUILDING SECTION E-W**
1/8" = 1'-0"



3 **BUILDING SECTION E-W**
1/8" = 1'-0"



2 **BUILDING SECTION E-W**
1/8" = 1'-0"



1 **BUILDING SECTION E-W**
1/8" = 1'-0"

5/7/2026 1:46:17 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

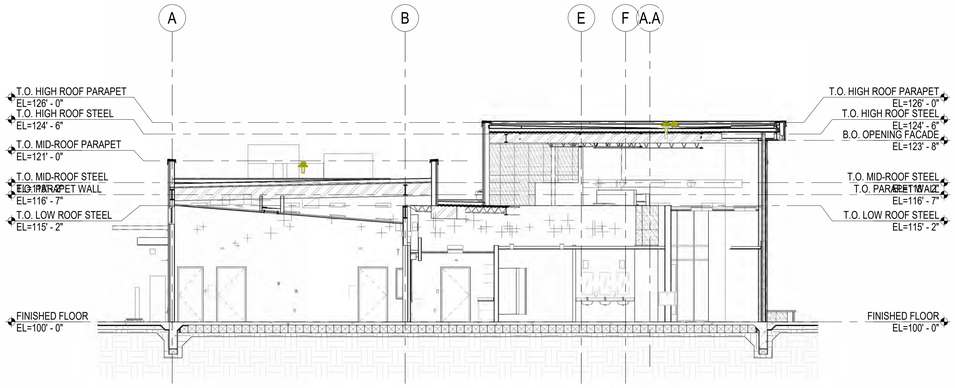
Project No.
3015

Drawn By:
KR

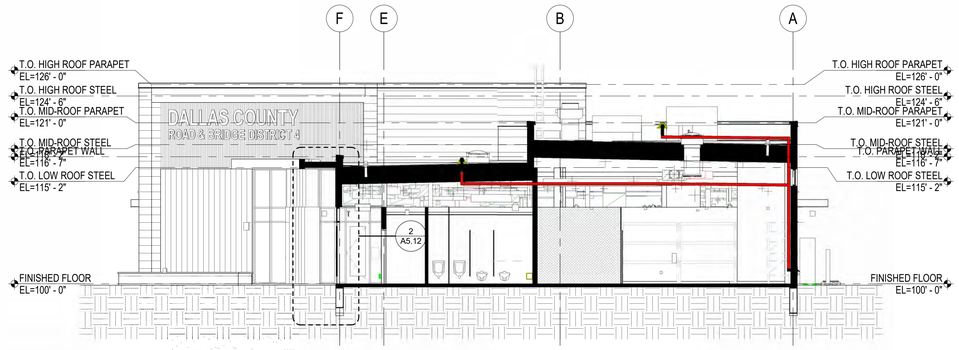
Checked By:
KR

Sheet Title:
BUILDING SECTIONS - ADMINISTRATION BLDG

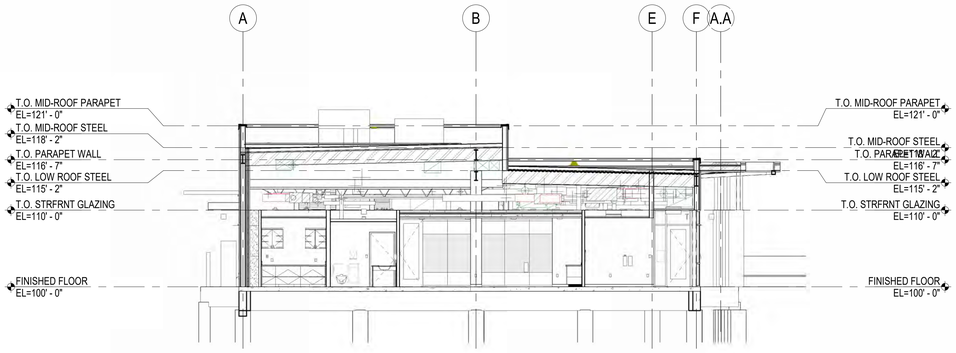
Drawing No.
A5.00



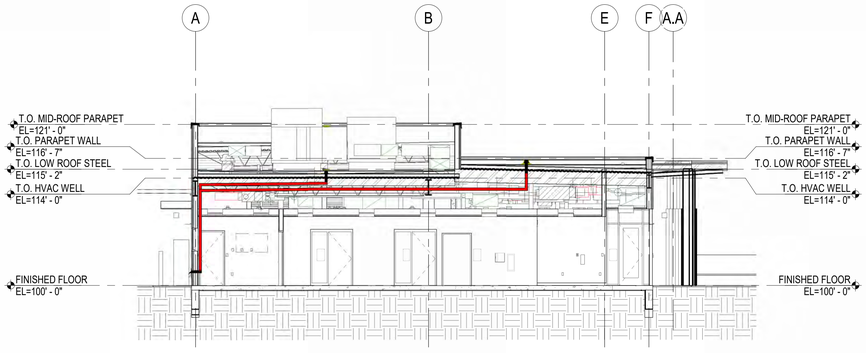
7 **BUILDING SECTION N-S**
1/8" = 1'-0"



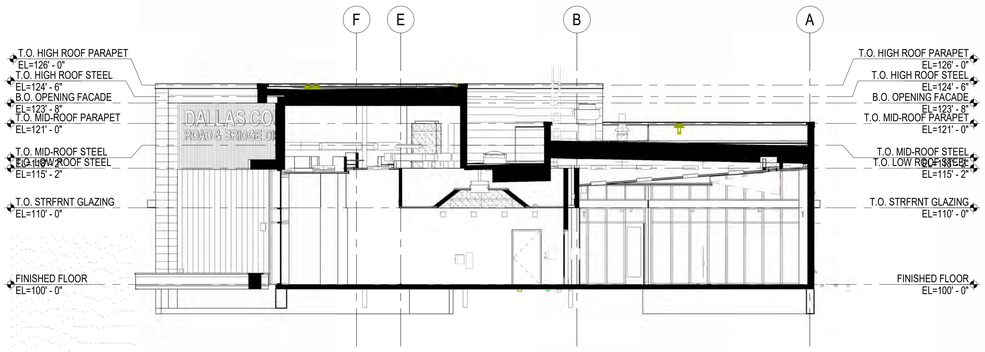
6 **BUILDING SECTION N-S**
1/8" = 1'-0"



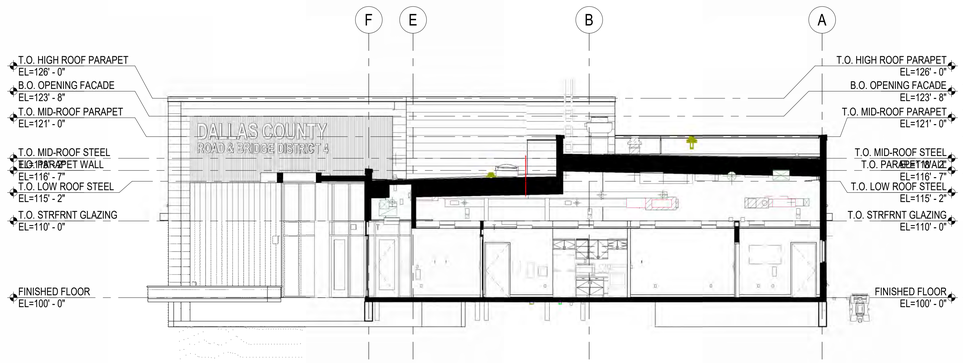
4 **ADMIN BUILDING SECTION N-S #4**
1/8" = 1'-0"



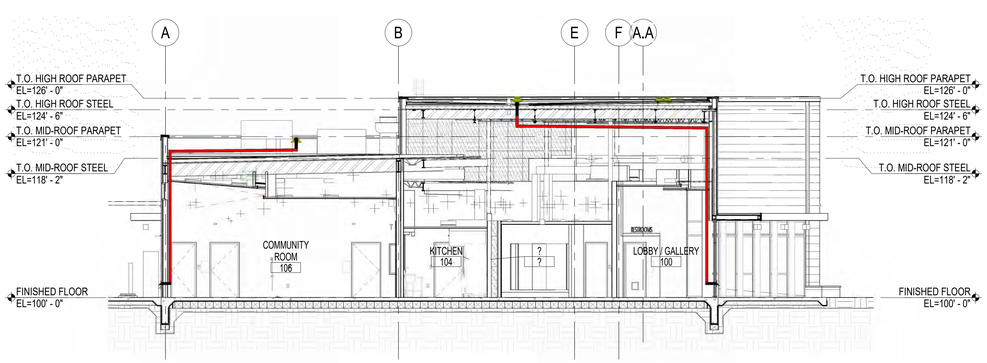
5 **BUILDING SECTION N-S**
1/8" = 1'-0"



2 **BUILDING SECTION N-S**
1/8" = 1'-0"



3 **BUILDING SECTION N-S**
1/8" = 1'-0"



1 **BUILDING SECTION N-S**
1/8" = 1'-0"

5/7/2026 1:46:27 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade
ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

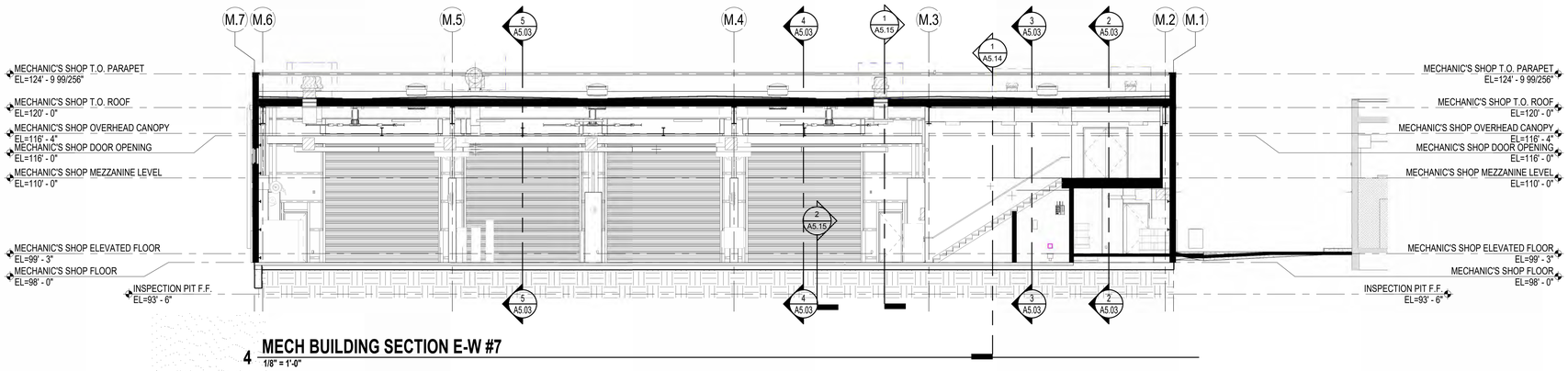
Project No.
3015

Drawn By:
KR

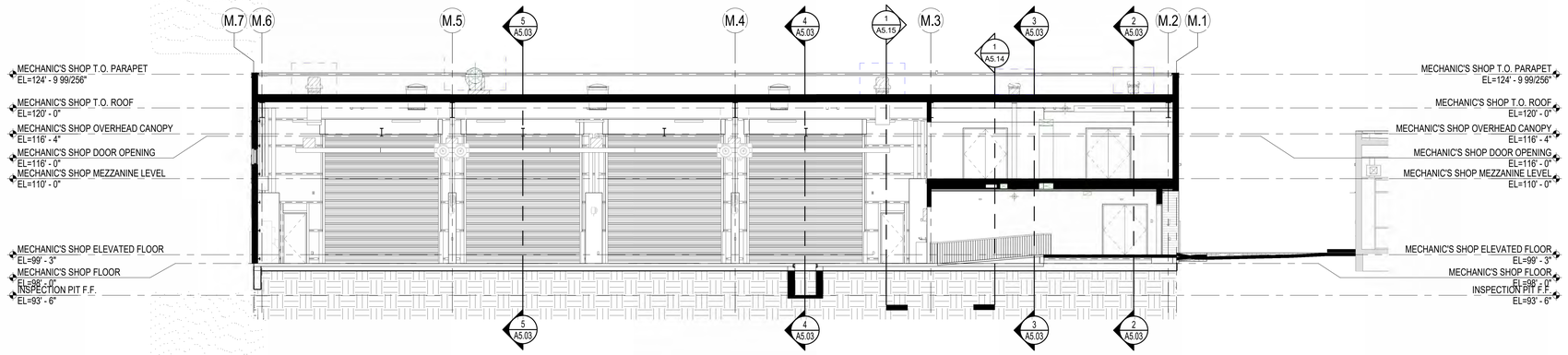
Checked By:
KR

Sheet Title:
BUILDING SECTIONS - ADMINISTRATION BLDG

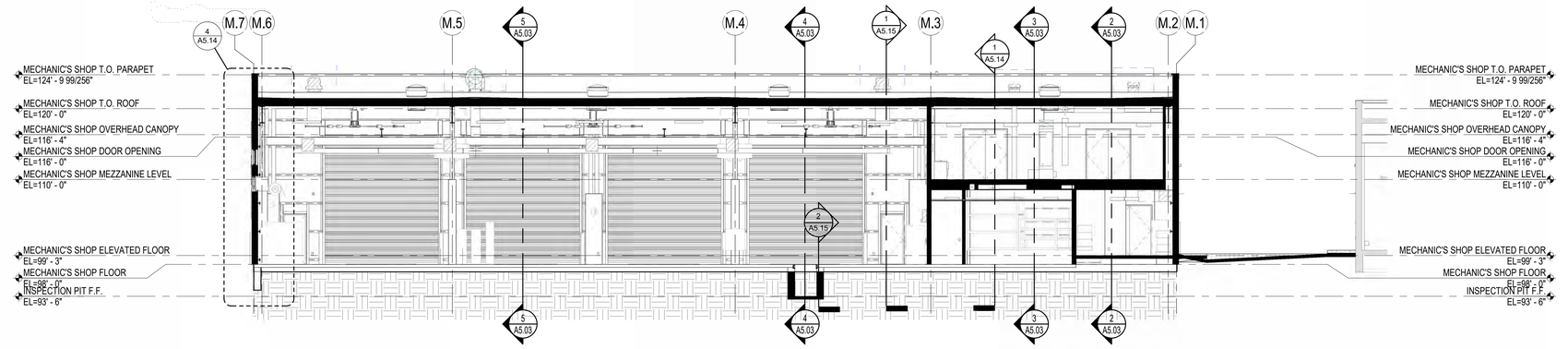
Drawing No.
A5.01



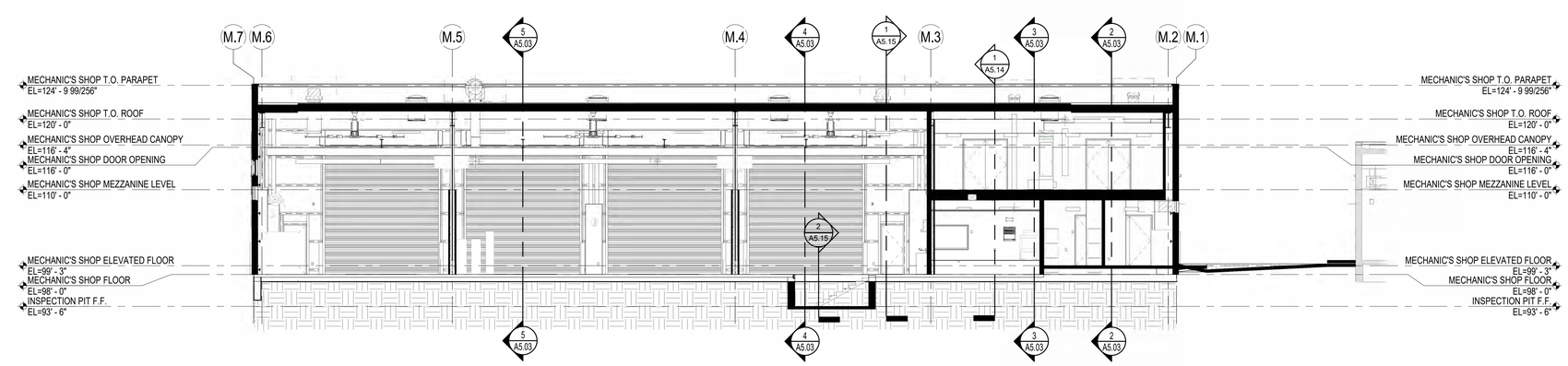
4 **MECH BUILDING SECTION E-W #7**
1/8" = 1'-0"



3 **MECH BUILDING SECTION E-W #8**
1/8" = 1'-0"



2 **MECH BUILDING SECTION E-W #6**
1/8" = 1'-0"



1 **MECH BUILDING SECTION E-W #10**
1/8" = 1'-0"

5/7/2026 1:46:37 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

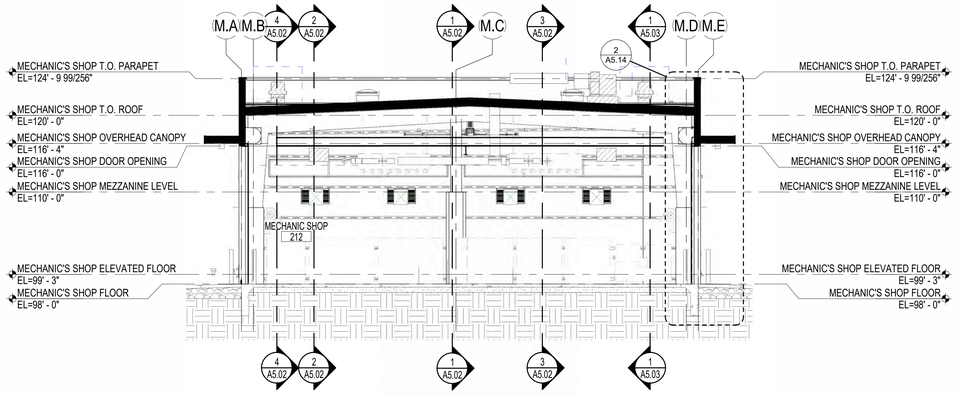
Project No.
3015

Drawn By:
KR

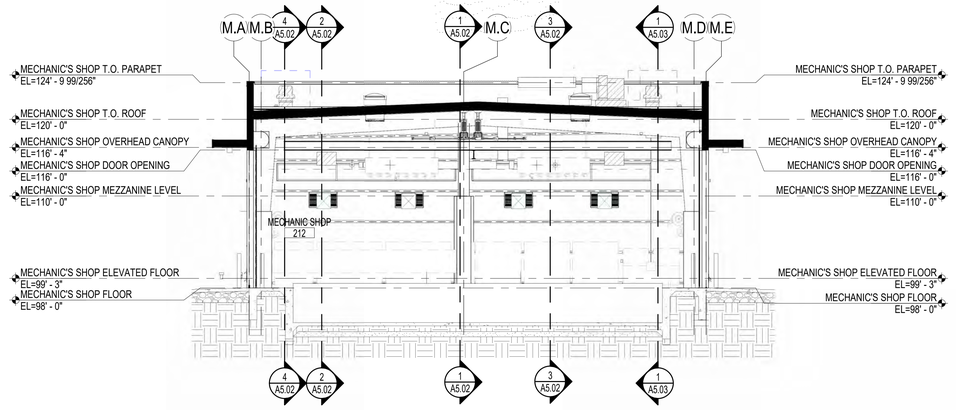
Checked By:
KR

Sheet Title:
BUILDING SECTIONS - MECHANIC'S SHOP

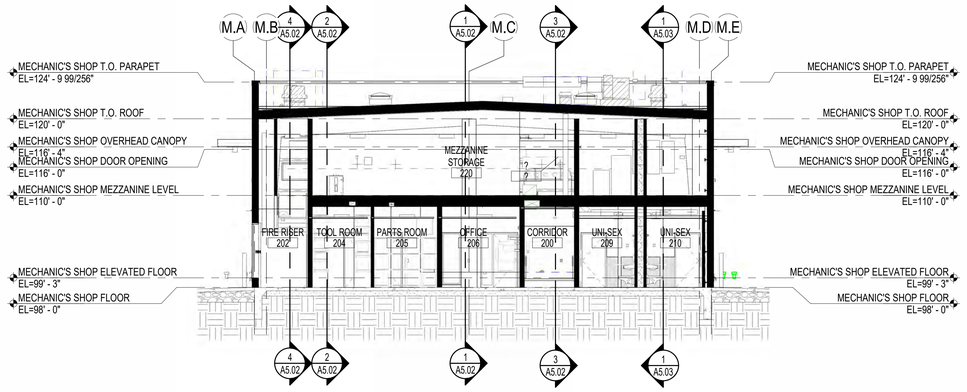
Drawing No.
A5.02



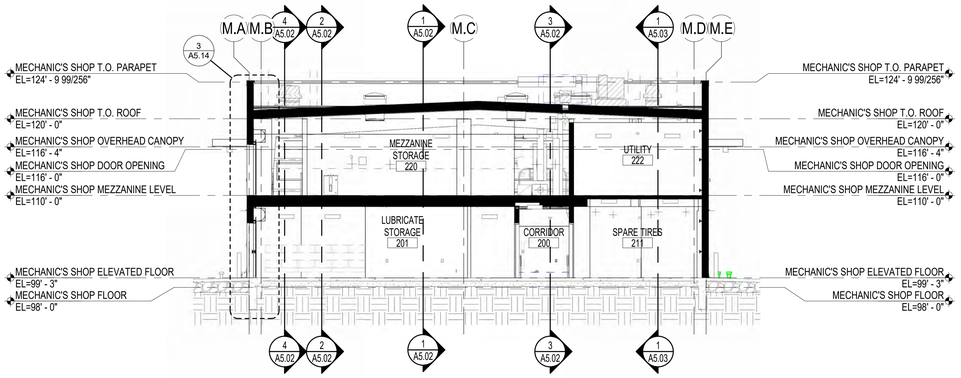
5 **MECH BUILDING SECTION N-S #4**
1/8" = 1'-0"



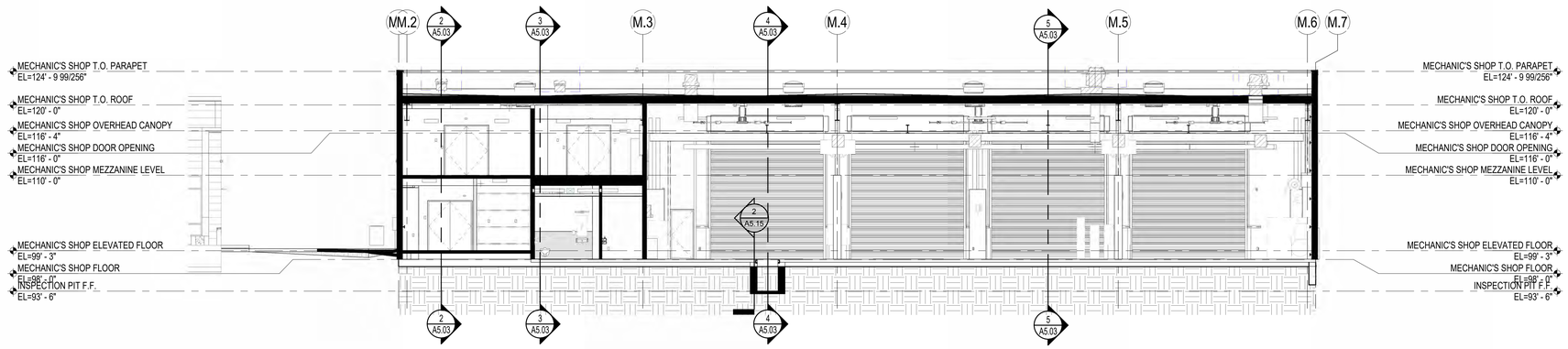
4 **MECH BUILDING SECTION N-S #3**
1/8" = 1'-0"



3 **MECH BUILDING SECTION N-S #2**
1/8" = 1'-0"



2 **MECH BUILDING SECTION N-S #1**
1/8" = 1'-0"



1 **MECH BUILDING SECTION E-W #9**
1/8" = 1'-0"

5/7/2026 1:46:45 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

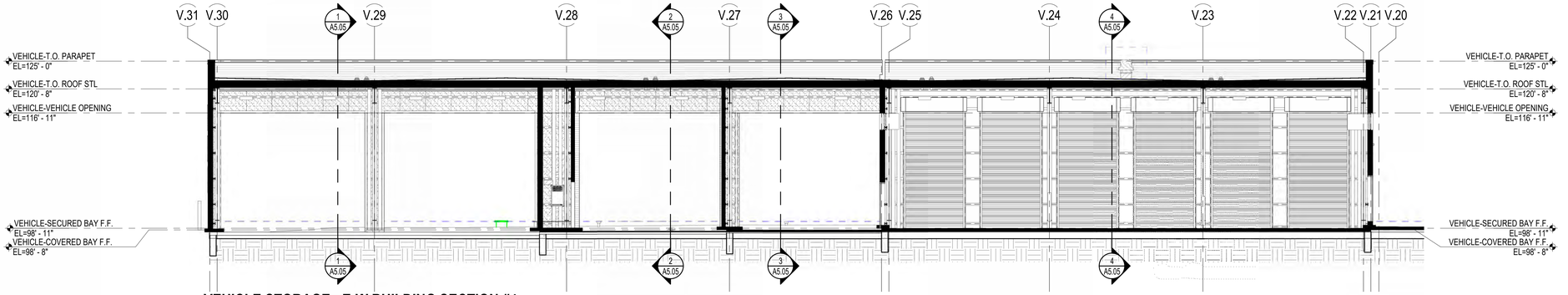
Project No.
3015

Drawn By:
KR

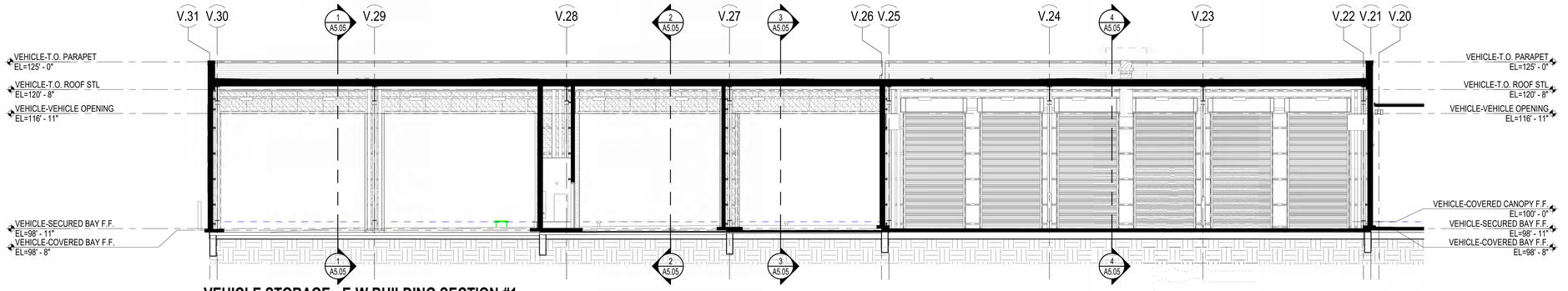
Checked By:
KR

Sheet Title:
BUILDING SECTIONS - MECHANIC'S SHOP

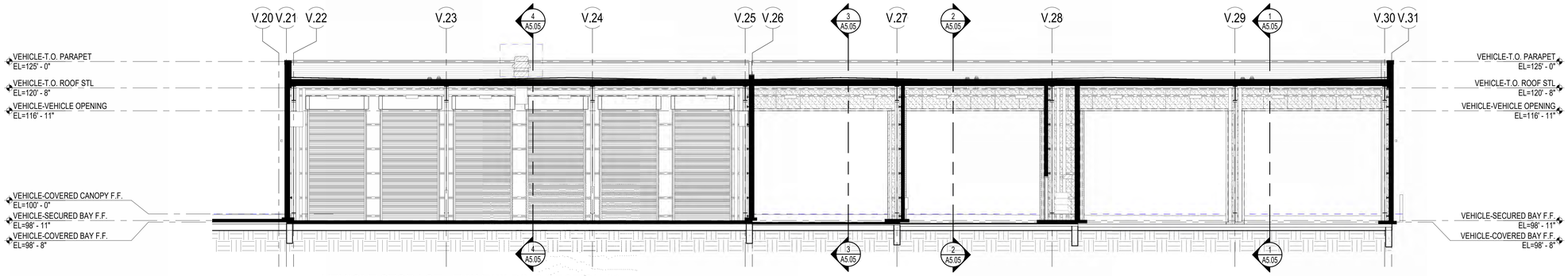
Drawing No.
A5.03



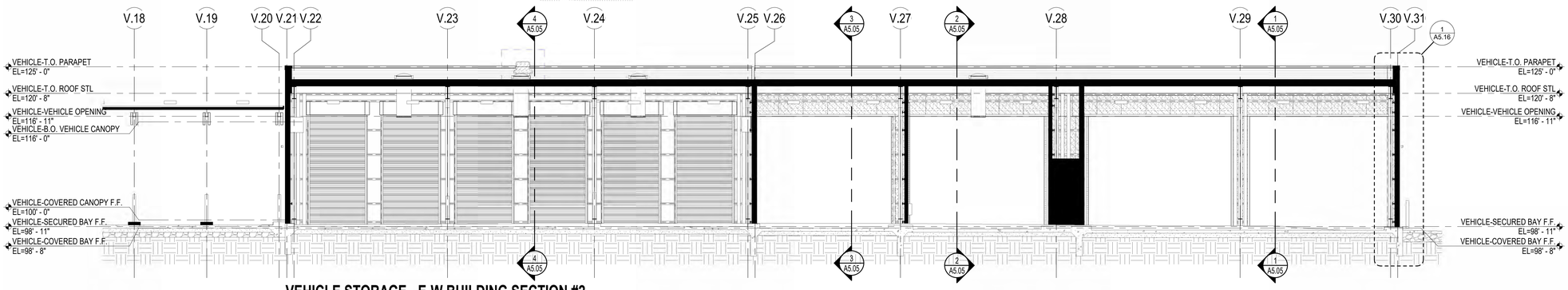
5 **VEHICLE STORAGE - E-W BUILDING SECTION #4**
1/8" = 1'-0"



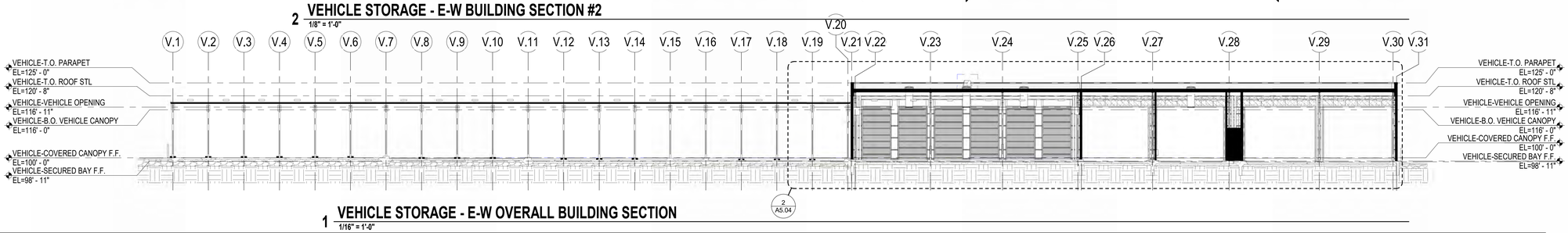
3 **VEHICLE STORAGE - E-W BUILDING SECTION #1**
1/8" = 1'-0"



4 **VEHICLE STORAGE - E-W BUILDING SECTION #3**
1/8" = 1'-0"



2 **VEHICLE STORAGE - E-W BUILDING SECTION #2**
1/8" = 1'-0"



1 **VEHICLE STORAGE - E-W OVERALL BUILDING SECTION**
1/16" = 1'-0"

5/7/2026 1:46:50 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

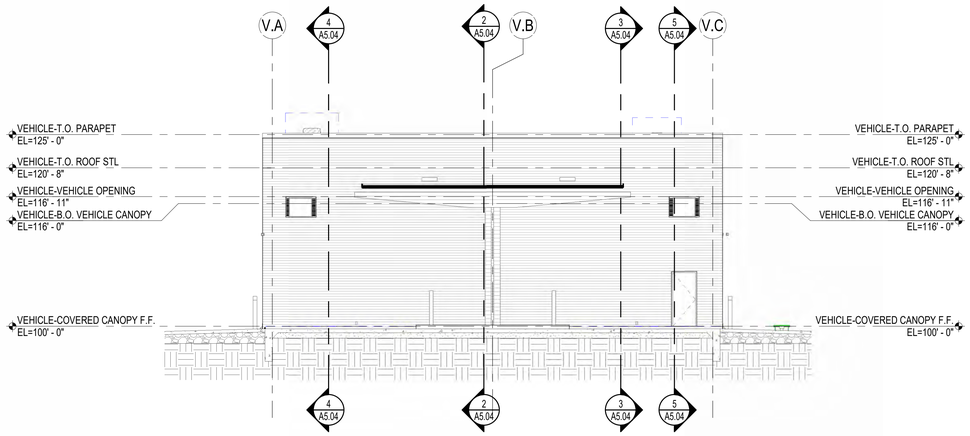
Project No.
3015

Drawn By:
KR

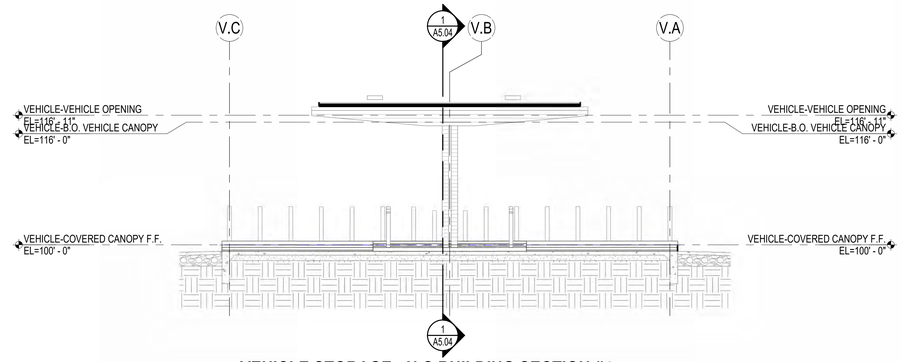
Checked By:
KR

Sheet Title:
BUILDING SECTIONS - VEHICLE STORAGE BLDG

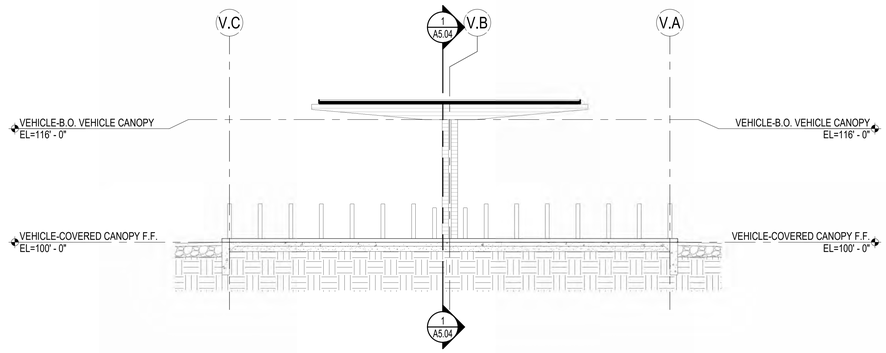
Drawing No.
A5.04



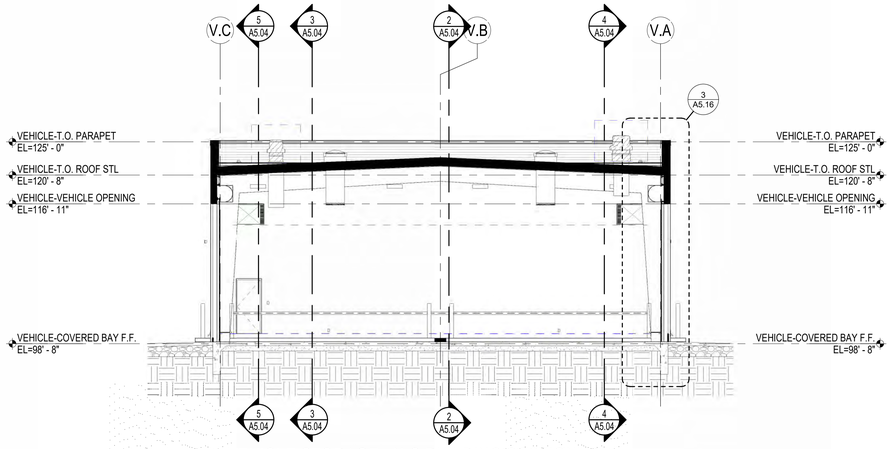
6 **VEHICLE STORAGE - N-S BUILDING SECTION #6**
1/8" = 1'-0"



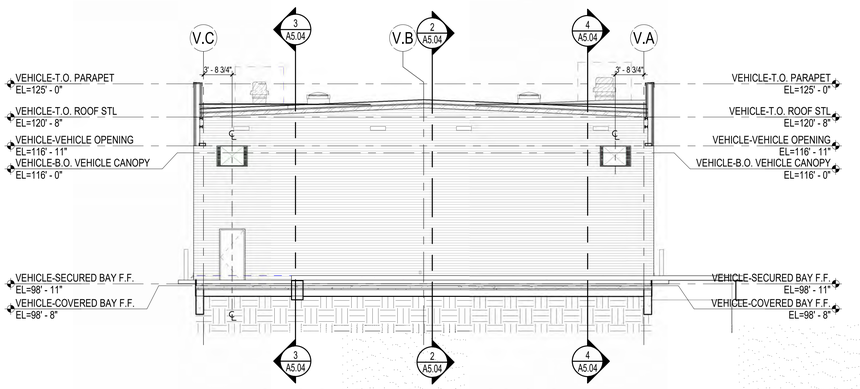
7 **VEHICLE STORAGE - N-S BUILDING SECTION #4**
1/8" = 1'-0"



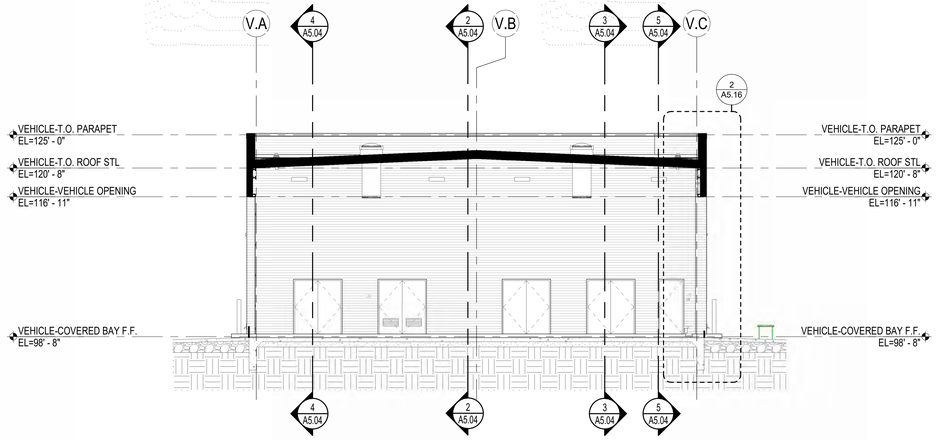
5 **VEHICLE STORAGE - N-S BUILDING SECTION #5**
1/8" = 1'-0"



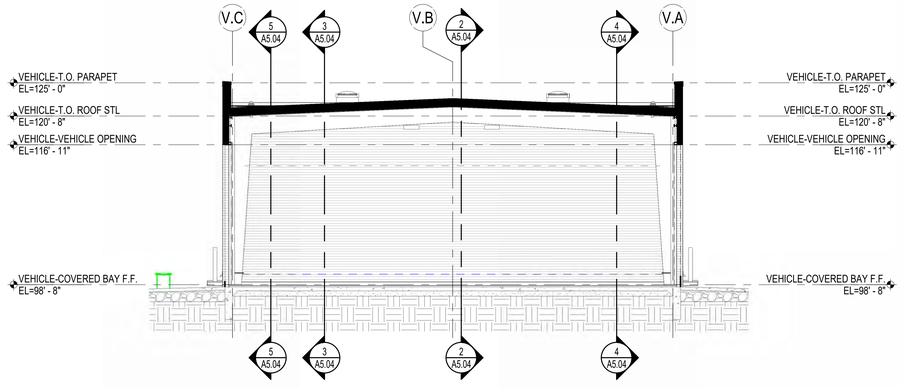
4 **VEHICLE STORAGE - N-S BUILDING SECTION #3**
1/8" = 1'-0"



3 **VEHICLE STORAGE - N-S BUILDING SECTION #7**
1/8" = 1'-0"



2 **VEHICLE STORAGE - N-S BUILDING SECTION #2**
1/8" = 1'-0"



1 **VEHICLE STORAGE - N-S BUILDING SECTION #1**
1/8" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

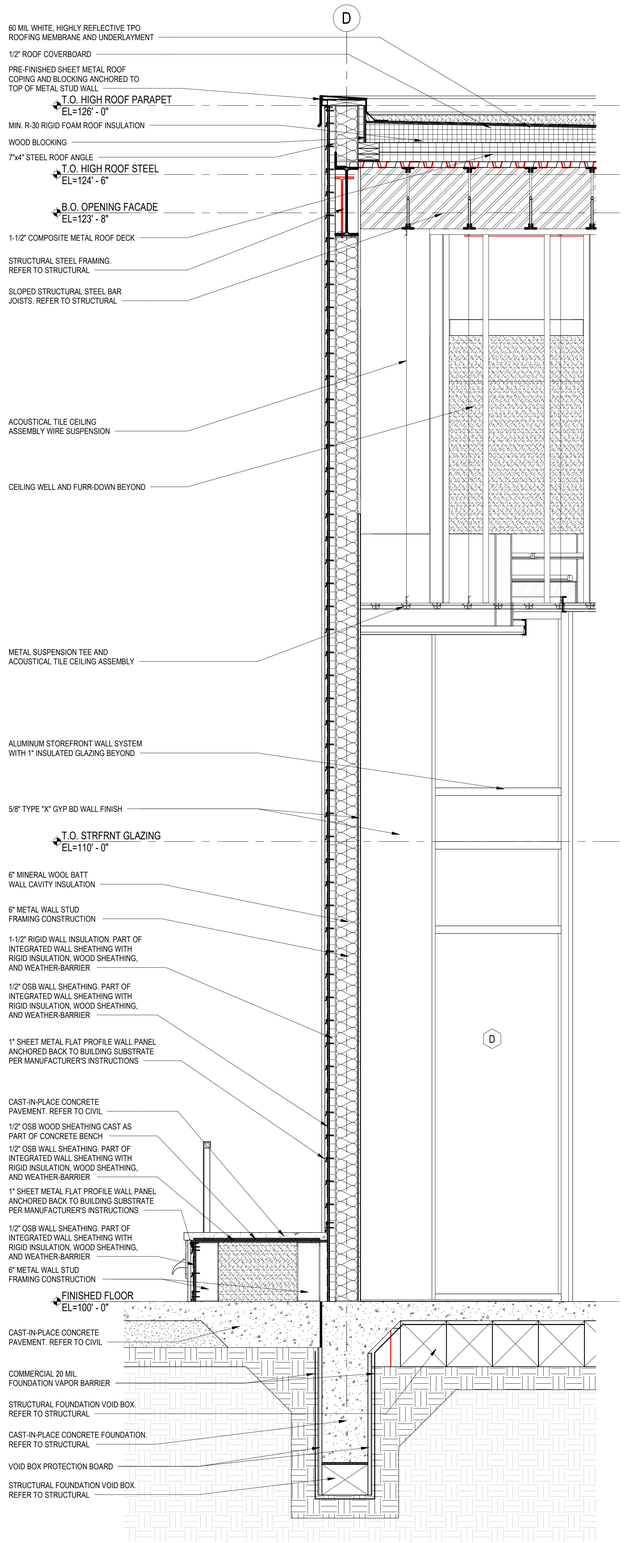
Drawn By:
KR

Checked By:
KR

Sheet Title:
BUILDING SECTIONS - VEHICLE STORAGE BLDG

Drawing No.
A5.05

5/7/2026 1:46:55 PM



3 **WALL SECTION** 3/4" = 1'-0"

2 **WALL SECTION** 3/4" = 1'-0"

1 **WALL SECTION** 3/4" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

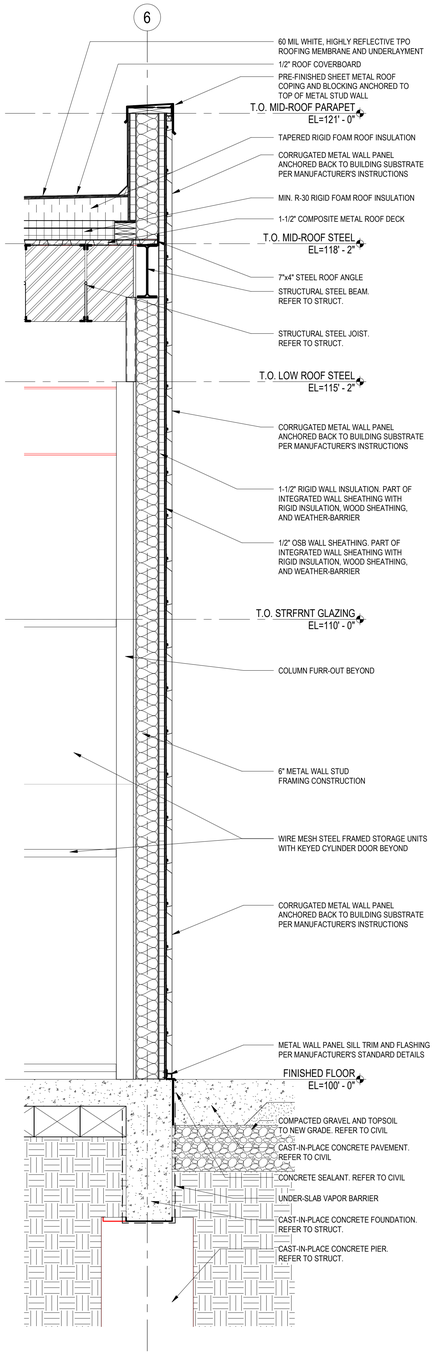
Drawn By:
KR

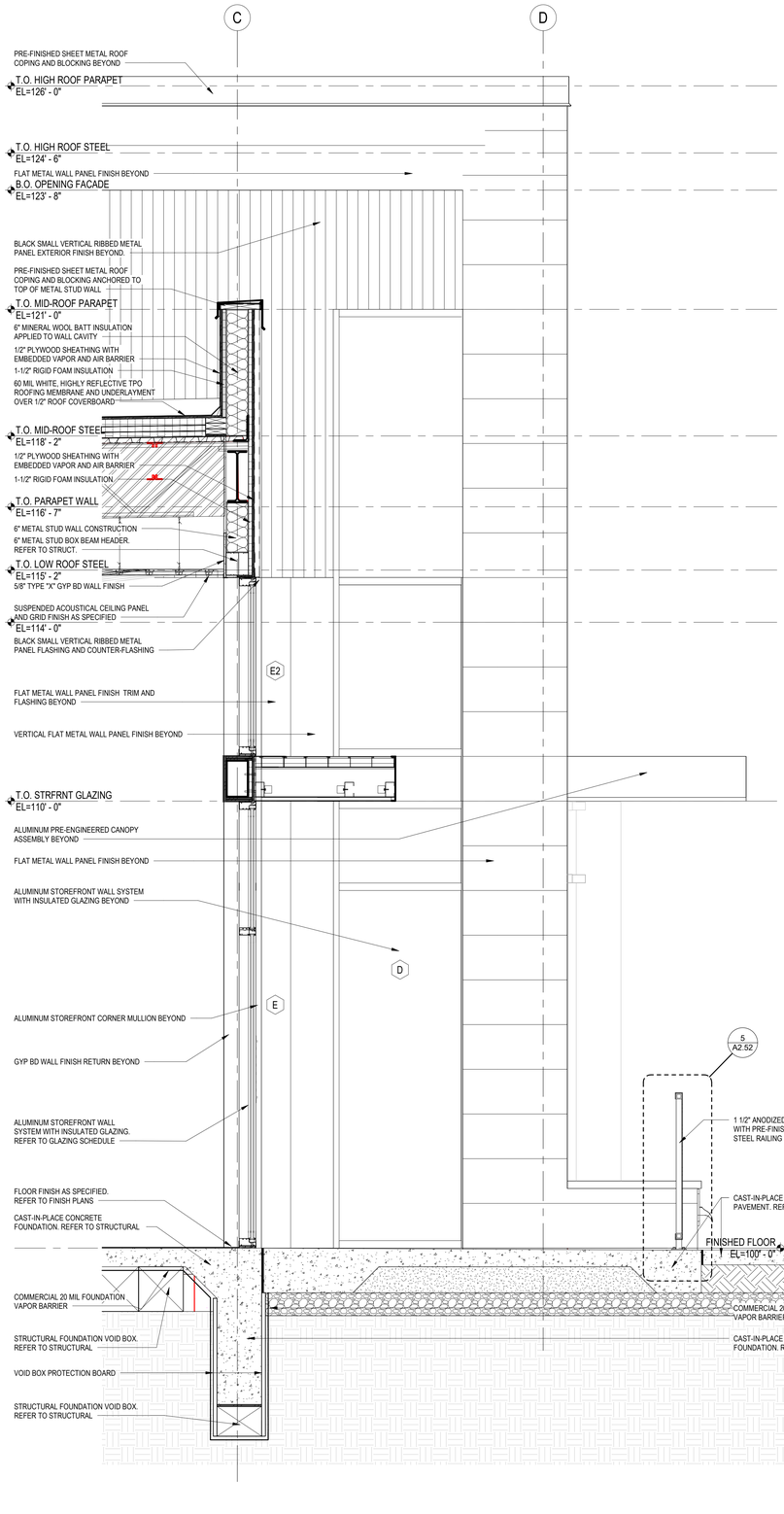
Checked By:
KR

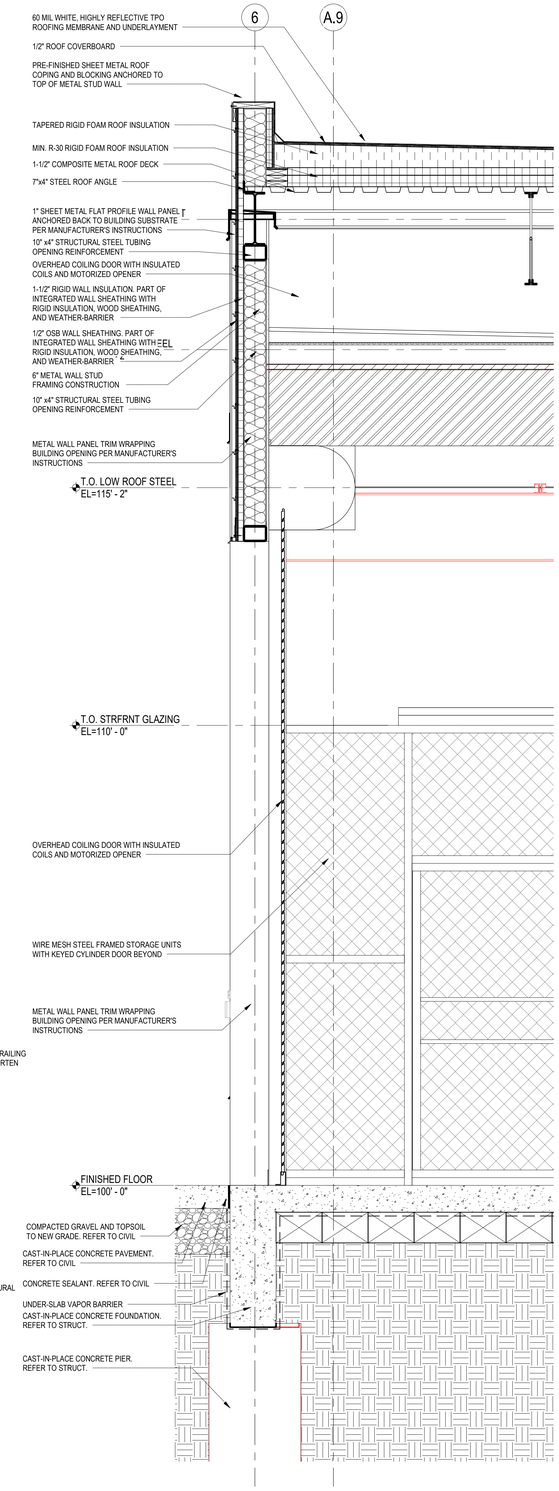
Sheet Title:
WALL SECTIONS

Drawing No.
A5.10

5/7/2026 1:46:57 PM







3 **WALL SECTION**
3/4" = 1'-0"

2 **WALL SECTION**
3/4" = 1'-0"

1 **WALL SECTION**
3/4" = 1'-0"

5/7/2026 1:46:58 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

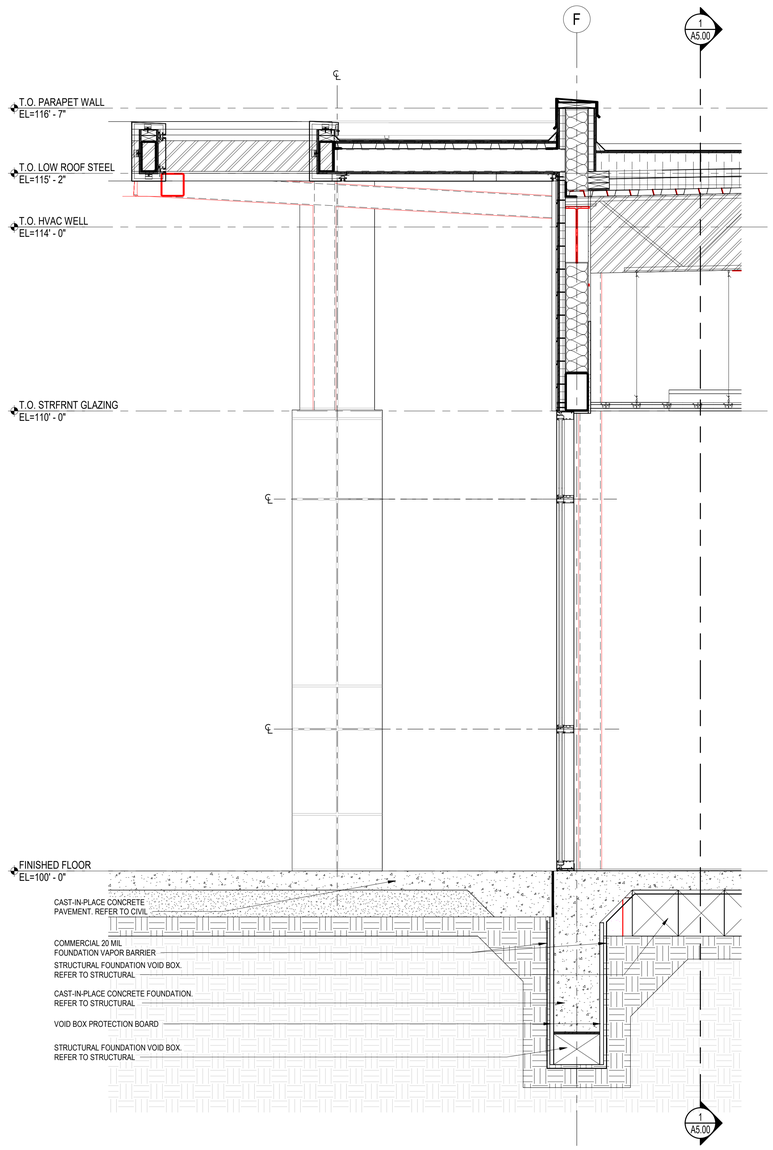
Project No.
3015

Drawn By:
KR

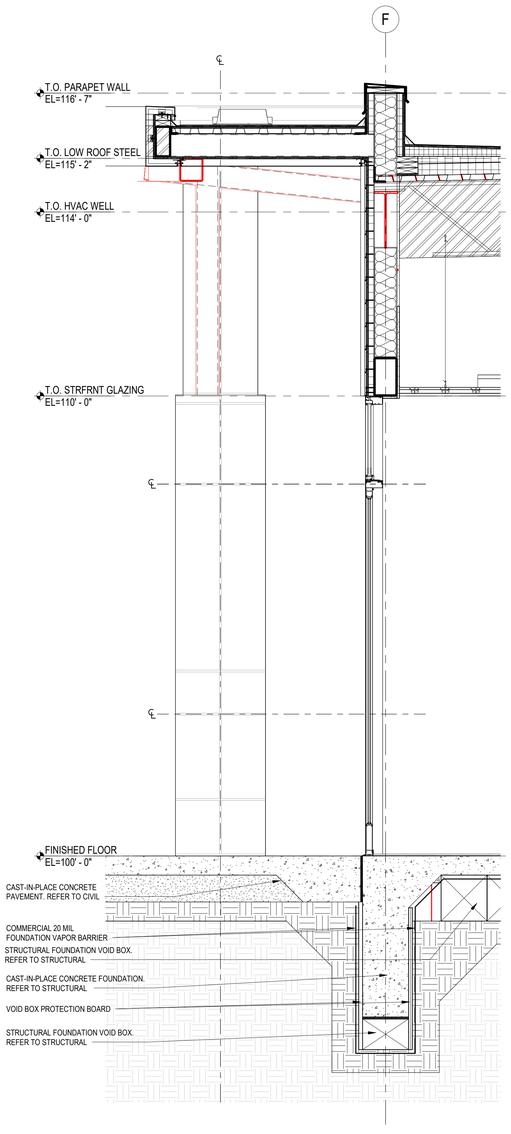
Checked By:
KR

Sheet Title:
WALL SECTIONS

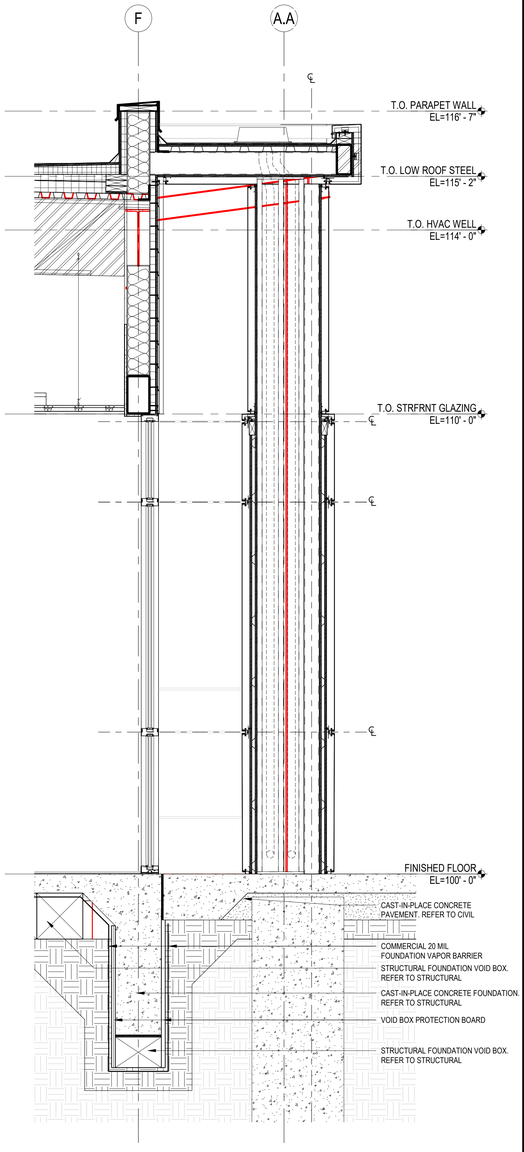
Drawing No.
A5.11



3 **WALL SECTION**
3/4" = 1'-0"



2 **WALL SECTION**
3/4" = 1'-0"



1 **WALL SECTION**
3/4" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

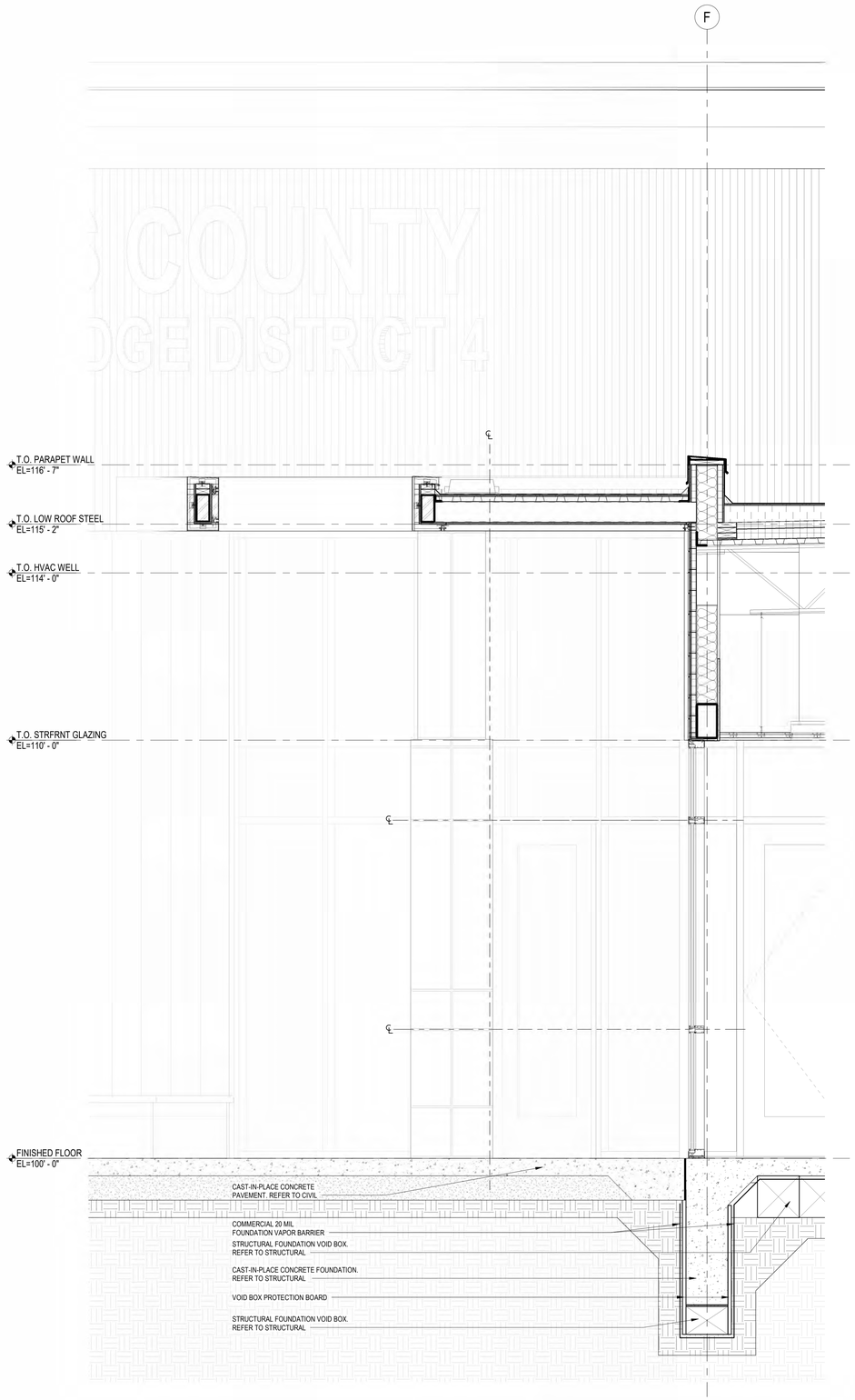
Drawn By:
KR

Checked By:
KR

Sheet Title:
WALL SECTIONS

Drawing No.
A5.12

5/7/2026 1:46:59 PM



1 **WALL SECTION**
3/4" = 1'-0"

5/7/2026 1:47:01 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

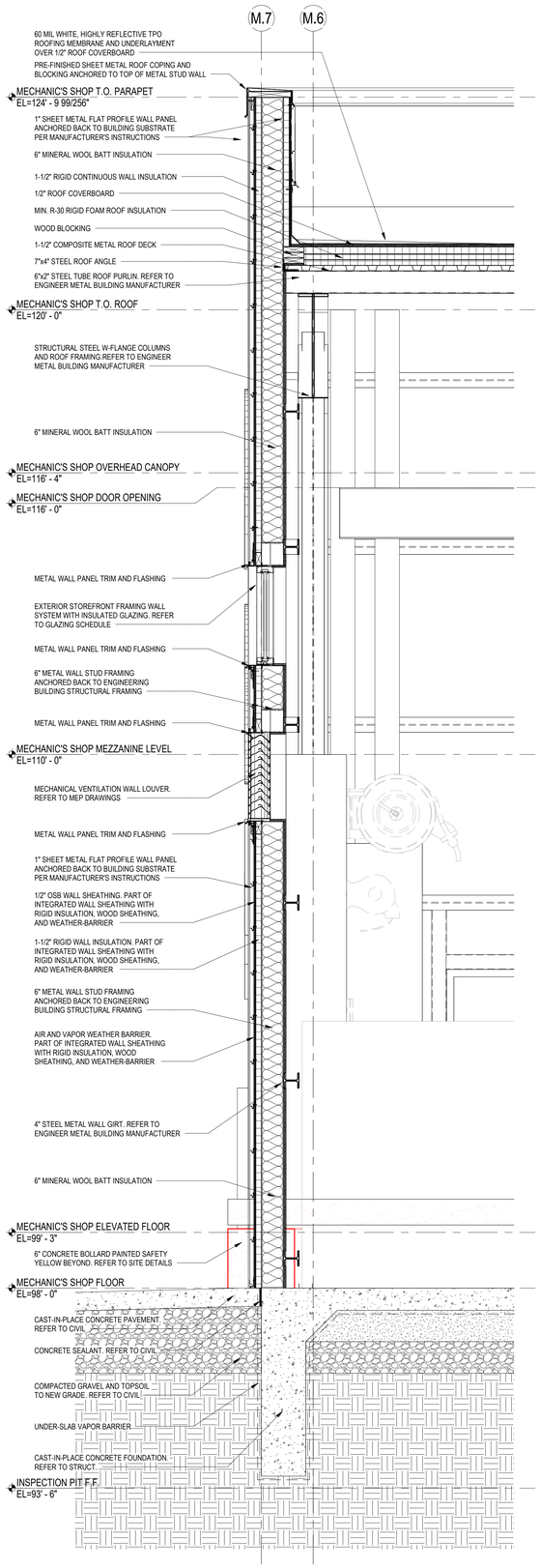
Project No.
3015

Drawn By:
KR

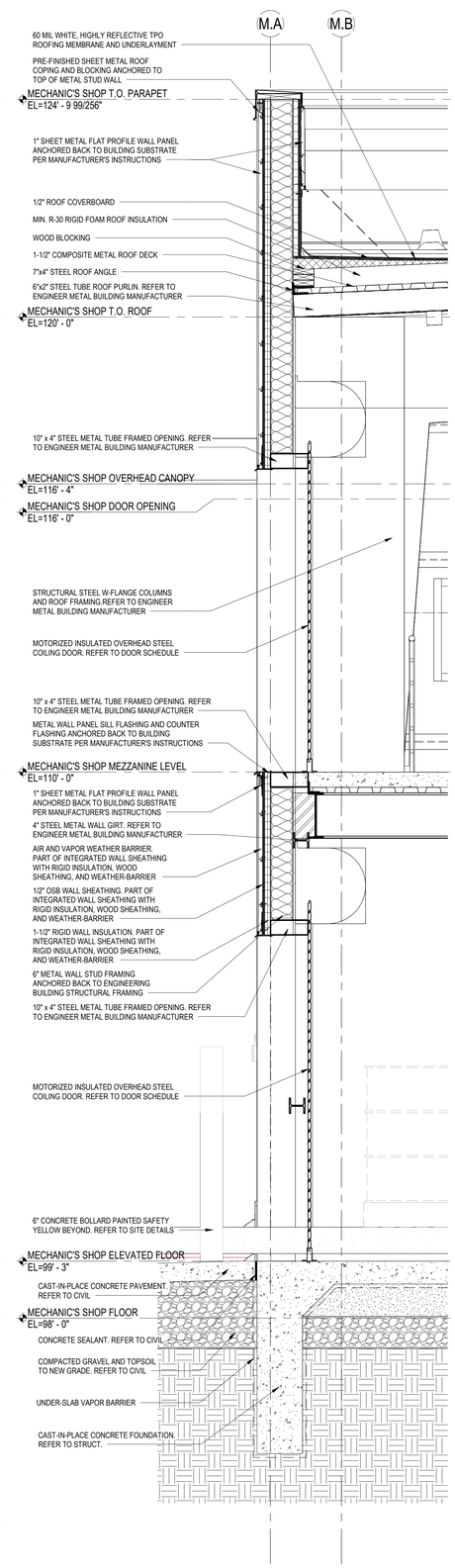
Checked By:
KR

Sheet Title:
WALL SECTIONS

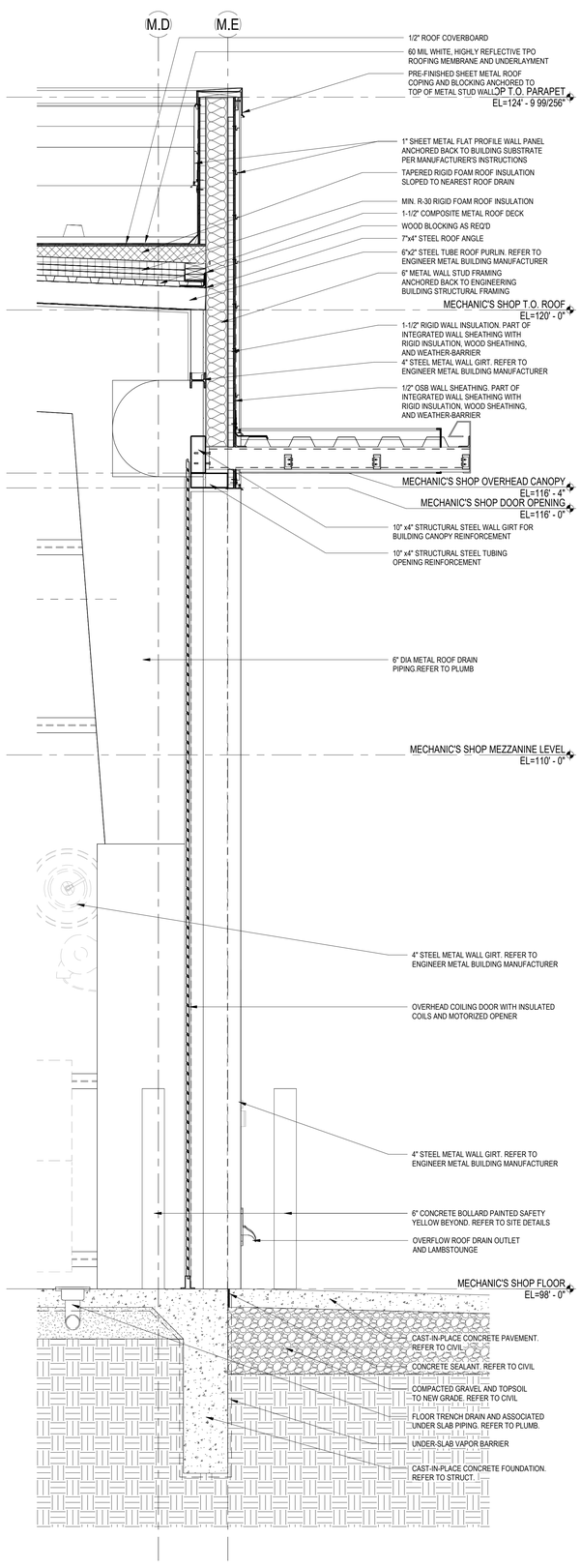
Drawing No.
A5.13



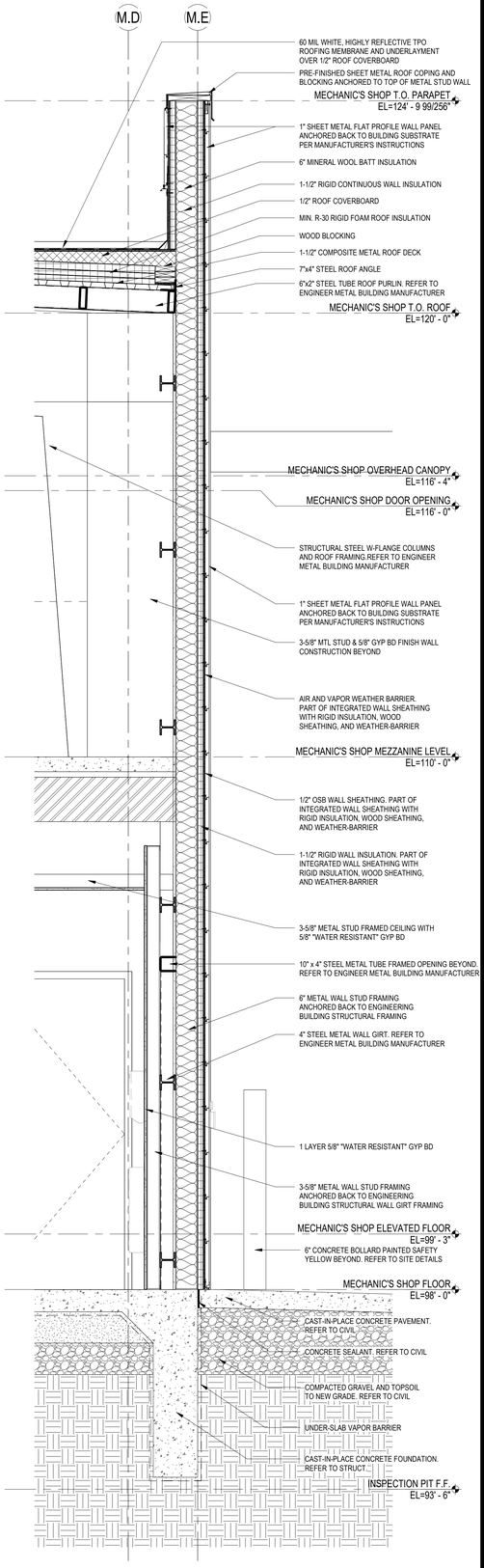
4 **WALL SECTION**
3/4" = 1'-0"



3 **WALL SECTION**
3/4" = 1'-0"



2 **WALL SECTION**
3/4" = 1'-0"



1 **WALL SECTION**
3/4" = 1'-0"

5/7/2026 1:47:03 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

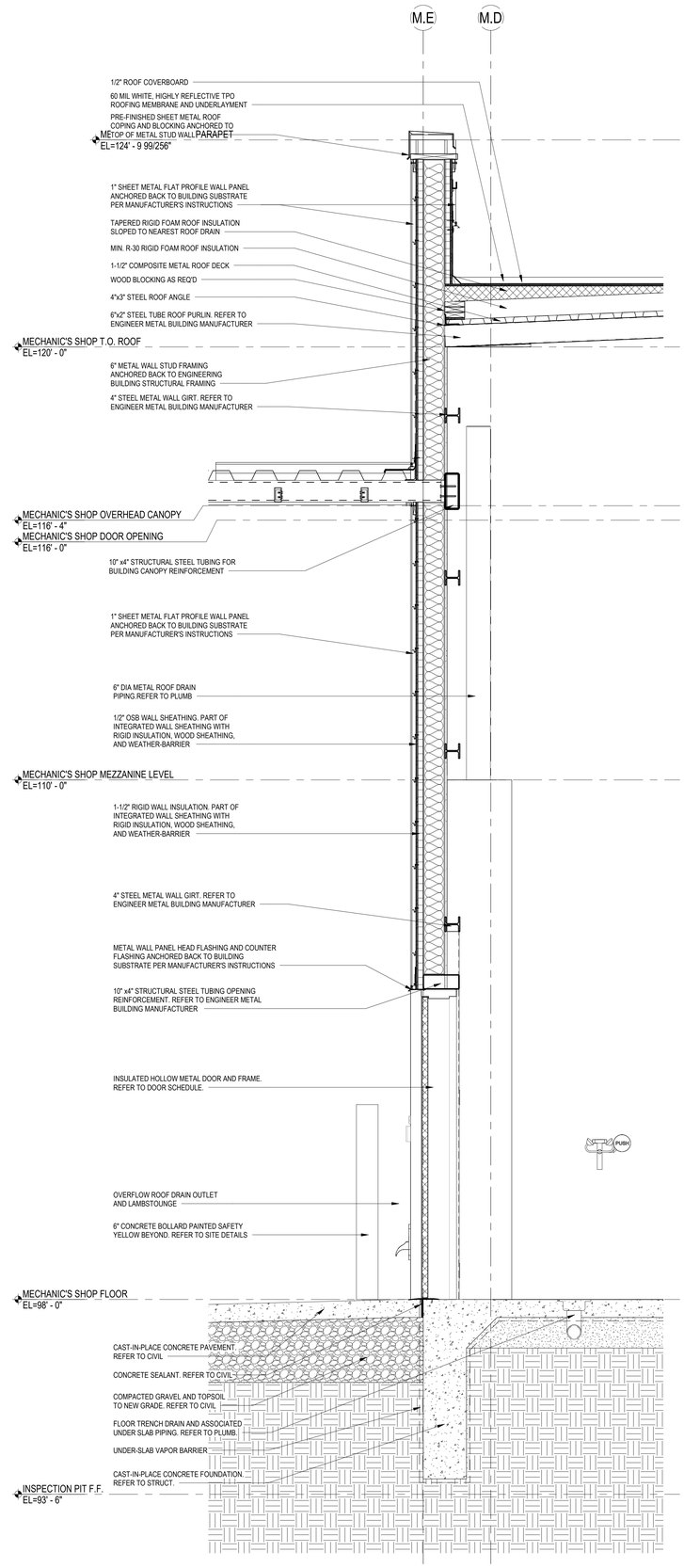
Project No.
3015

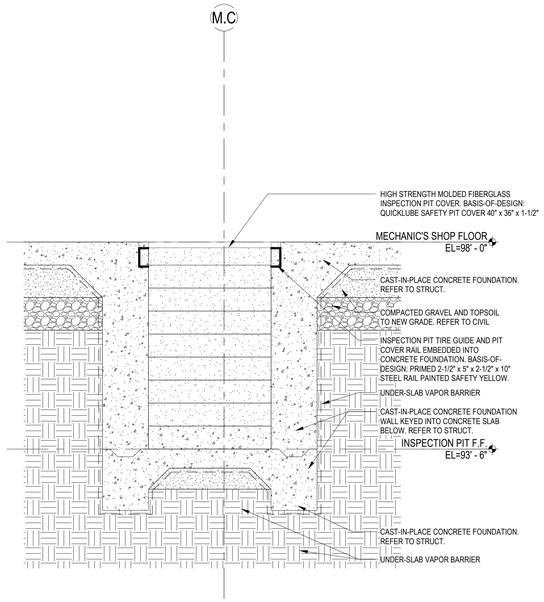
Drawn By:
KR

Checked By:
KR

Sheet Title:
WALL SECTIONS

Drawing No.
A5.14





2 WALL SECTION
3/4" = 1'-0"

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

5/7/2026 1:47:04 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

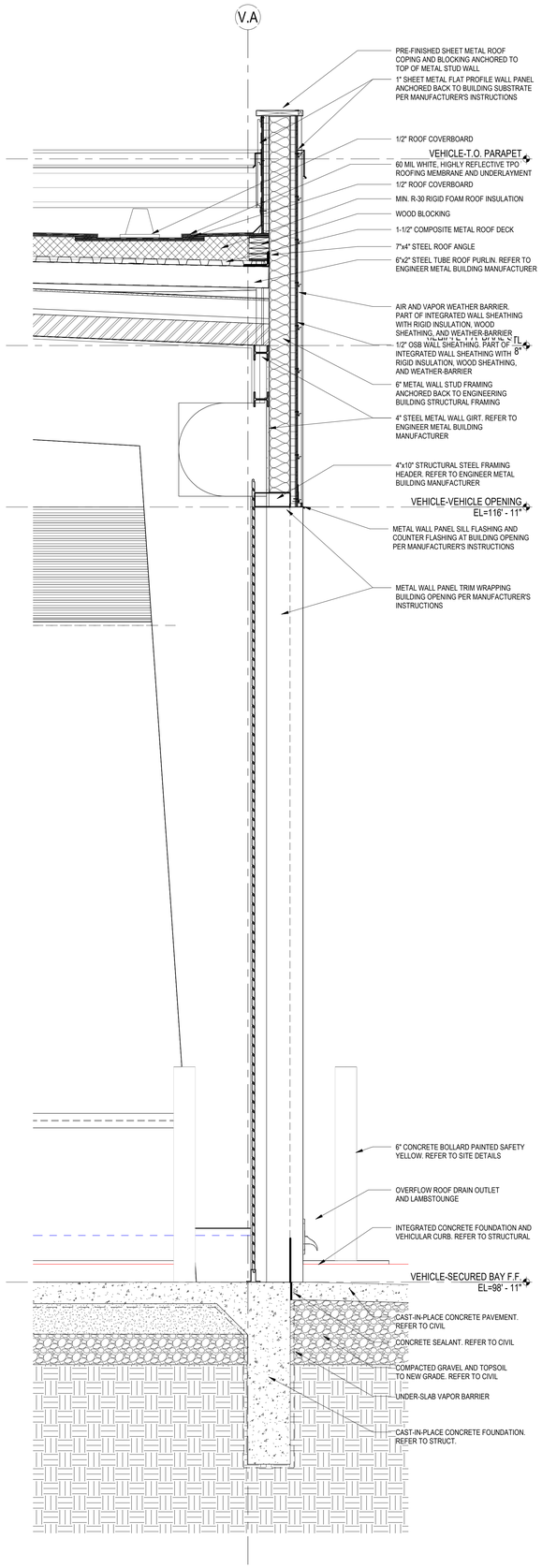
Project No.
3015

Drawn By:
KR

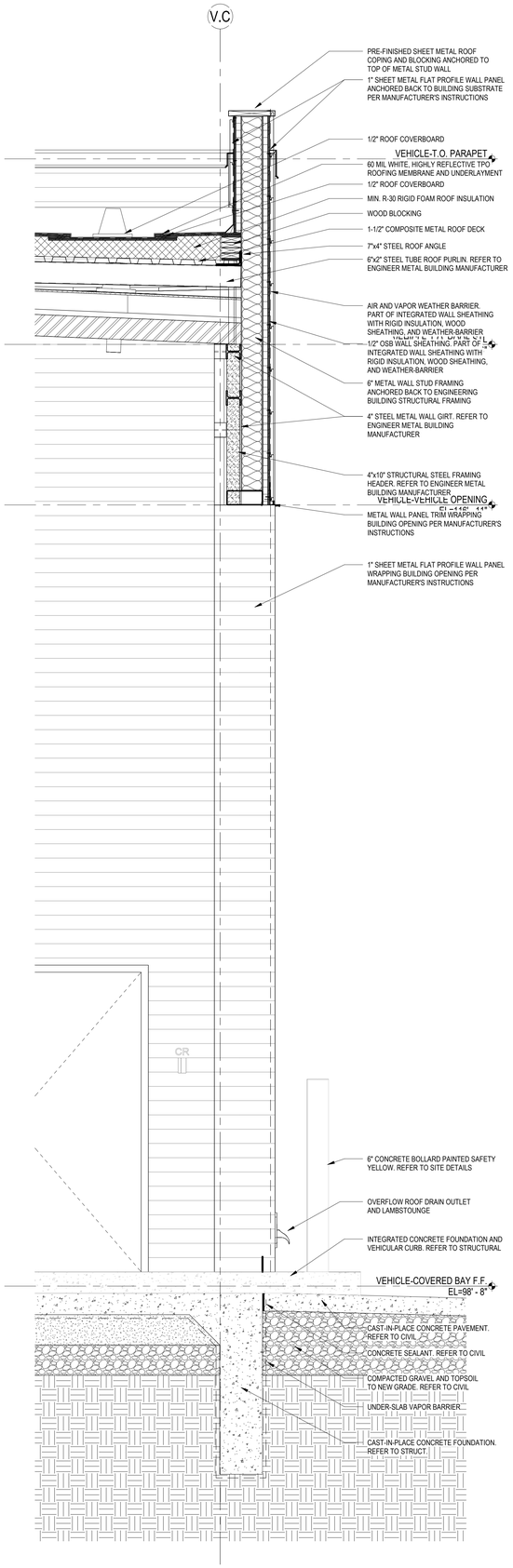
Checked By:
KR

Sheet Title:
WALL SECTIONS

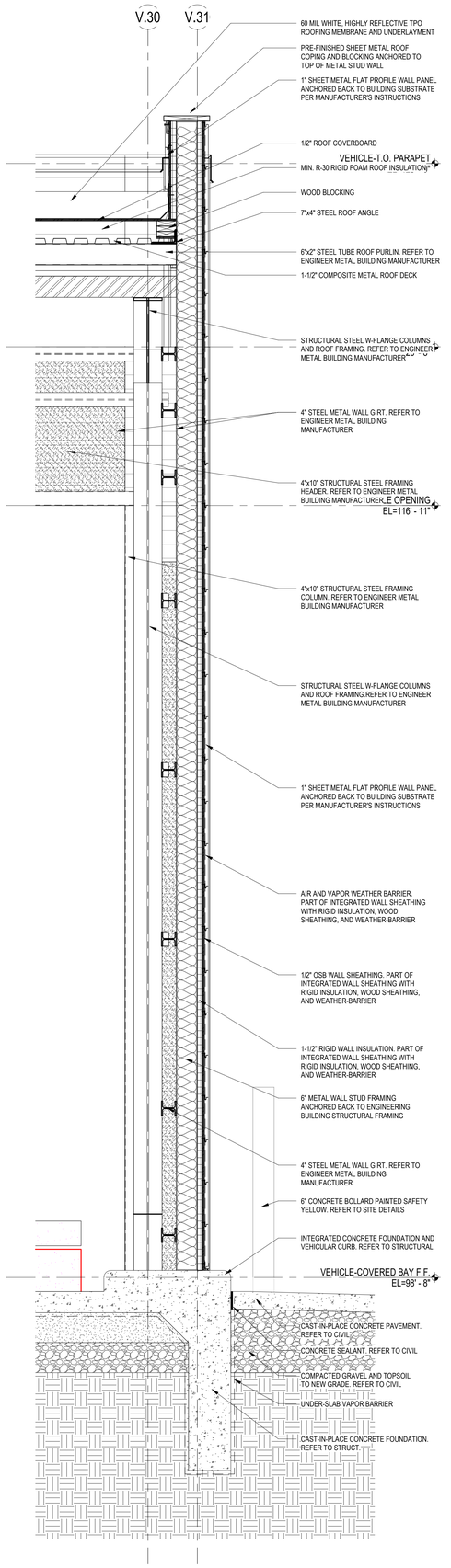
Drawing No.
A5.15



3 **VEHICLE STORAGE - WALL SECTION #2**
3/4" = 1'-0"



2 **VEHICLE STORAGE - WALL SECTION #1**
3/4" = 1'-0"



1 **VEHICLE STORAGE - STANDARD WALL SECTION**
3/4" = 1'-0"

5/7/2026 1:47:05 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

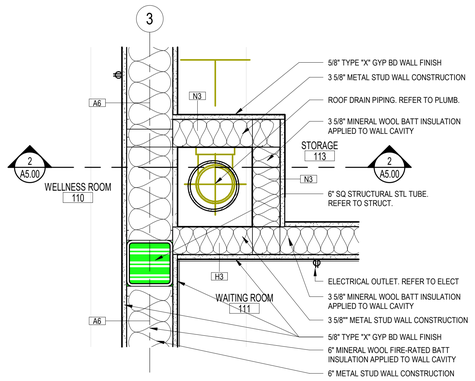
Project No.
3015

Drawn By:
KR

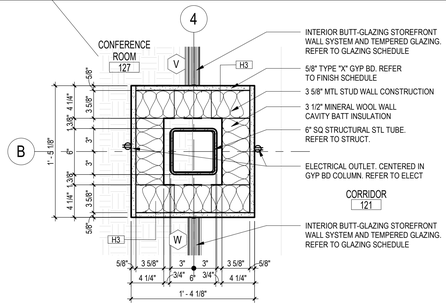
Checked By:
KR

Sheet Title:
WALL SECTIONS

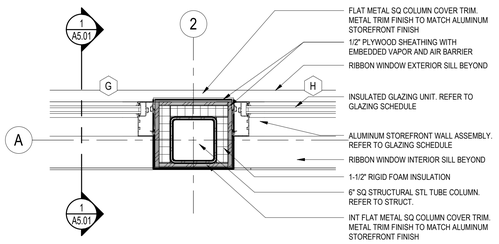
Drawing No.
A5.16



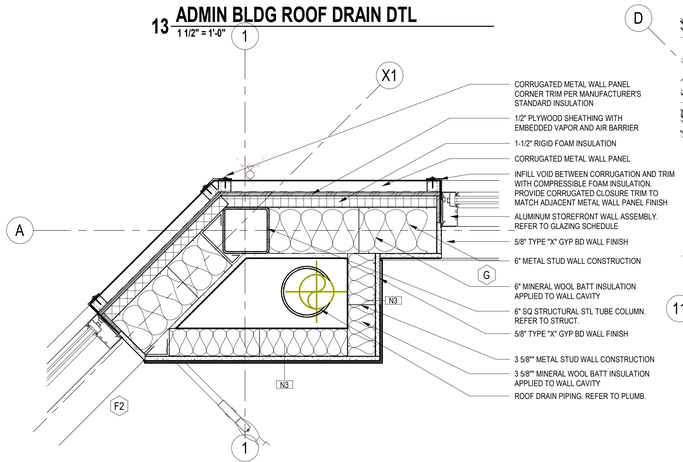
13 ADMIN BLDG ROOF DRAIN DTL
1 1/2" = 1'-0"



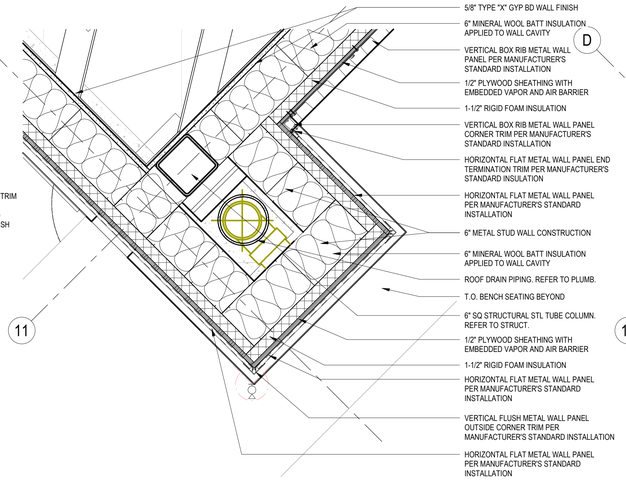
12 ADMIN BLDG CONF. RM COLUMN DTL
1 1/2" = 1'-0"



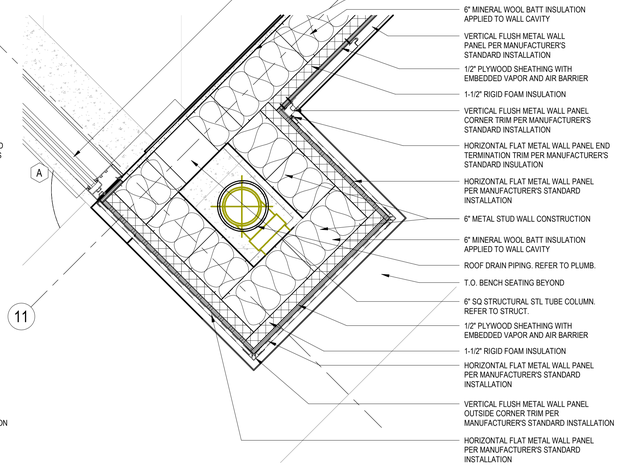
7 ADMIN BLDG - COMMUNITY ROOM 106 CLERESTORY PLAN DTL
1 1/2" = 1'-0"



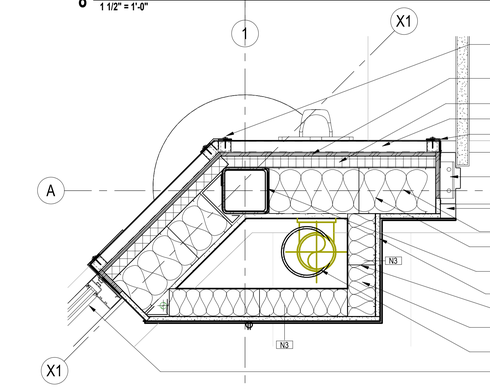
8 ADMIN BLDG - COMMUNITY ROOM 106 CORNER PLAN DTL @13' AFF
1 1/2" = 1'-0"



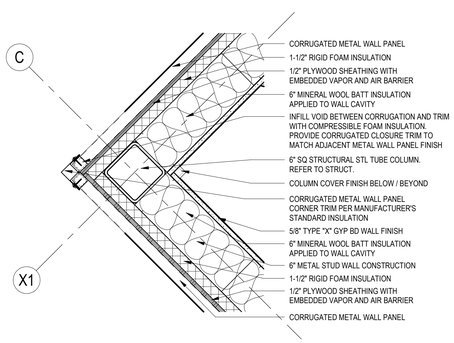
10 ADMIN BLDG - LOBBY PLAN DTL @18' AFF
1 1/2" = 1'-0"



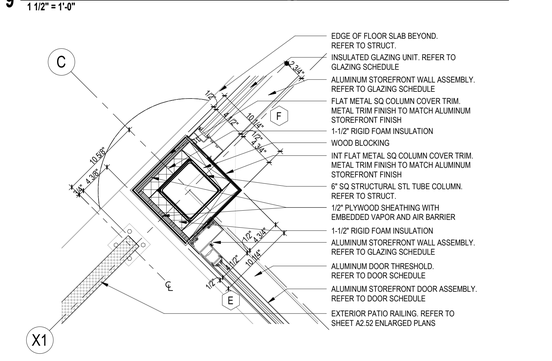
9 ADMIN BLDG - LOBBY PLAN DTL @ 4' AFF
1 1/2" = 1'-0"



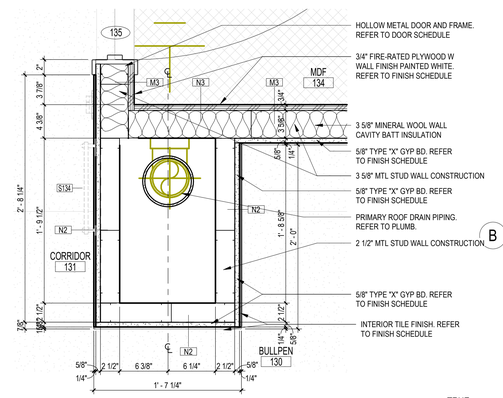
11 ADMIN BLDG - COMMUNITY ROOM 106 CORNER PLAN DTL @4' AFF
1 1/2" = 1'-0"



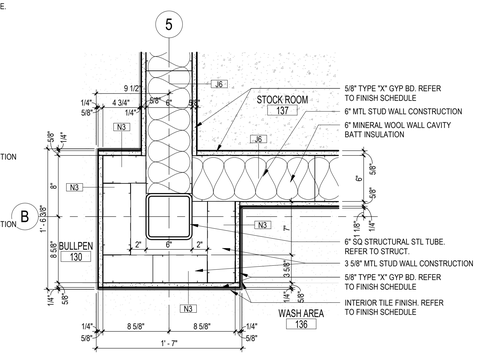
6 COMMUNITY ROOM STOREFRONT CORNER PLAN DTL @16' AFF
1 1/2" = 1'-0"



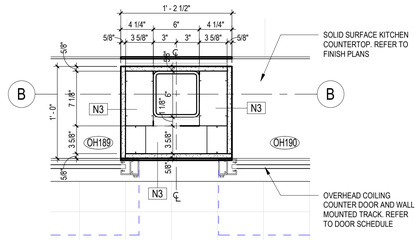
5 COMMUNITY ROOM STOREFRONT CORNER PLAN DTL @3' AFF
1 1/2" = 1'-0"



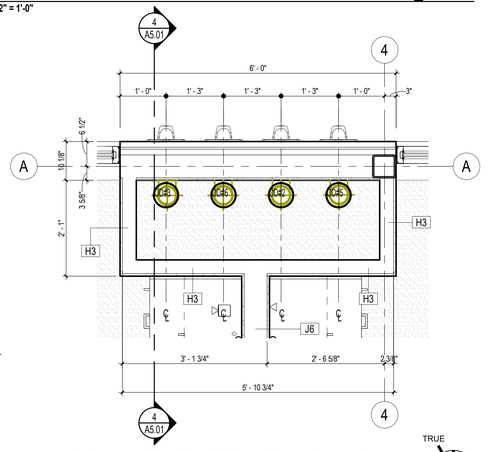
4 ADMIN BLDG - BULLPEN PLAN DETAIL
1 1/2" = 1'-0"



3 BULLPEN PLAN DETAIL
1 1/2" = 1'-0"



2 KITCHEN COLUMN PLAN DETAIL
1 1/2" = 1'-0"



1 PRIVATE OFFICE ROOF DRAIN PLAN DETAIL
3/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. PARTITION TYPES ARE SHOWN ON A7.00. REFER TO ADDITIONAL FIRE AND SMOKE RATED INFORMATION ON LIFE SAFETY SHEET LS1.01 AND THE LIFE SAFETY REPORT IN THE PROJECT MANUAL.
2. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. LARGE SCALE DIMENSIONS GOVERN OVER SMALL SCALE. DIMENSIONS SHOWN ON THE FLOOR PLANS ARE FROM CENTERLINE OF COLUMNS TO FACE OF FINISH OF INTERIOR WALLS AND TO FACE OF FINISH OF EXTERIOR WALLS UNLESS INDICATED OTHERWISE ON PLANS. IF DIMENSIONS ARE IN QUESTION, THE CONTACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
3. ALL ANGLED WALLS ARE AT 45 DEGREE ANGLES, U.N.O.
4. SINKS SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE SINK IS 1'-3" MINIMUM TO THE FACE OF THE ADJACENT FIXED EQUIPMENT, SIDEWALL, MILLWORK, CASEWORK, ETC...
5. FOR FURTHER DIMENSIONS, SEE ENLARGED PLANS, SECTIONS, & ELEVATIONS.
6. CONTRACTOR IS RESPONSIBLE FOR BRACING AND BLOCKING OF WALLS RECEIVING MILLWORK/CASEWORK/CABINETRY, SHELVING, TELEPHONE BOARDS, ETC. ALL WOOD BLOCKING, GROUNDS, ROUGH BUCKS, AND MISCELLANEOUS BLOCKING IS TO BE FIRE-RETARDANT TREATED.
7. CONTRACTOR IS TO NOTIFY ARCHITECT IF FLOOR PENETRATIONS CONFLICT WITH STRUCTURAL ELEMENTS, DUCTWORK, ETC. PRIOR TO PROCEEDING WITH WORK.
8. SEE A7.40 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES, TOILET ACCESSORIES, FIRE ALARM DEVICES, ETC....
9. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS AND EQUIPMENT ROOMS. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
10. RECESSED ITEMS (GREATER THAN 16 SQUARE INCHES) IN RATED AND / OR SMOKE WALLS INCLUDING ELECTRICAL PANELS, ELECTRICAL BOXES, MED GAS VALAVE BOXES, FIRE EXTINGUISHER CABINETS, ETC... SHALL BE BACKED WITH 5/8" TYPE 'X' GYPSUM BOARD TO MAINTAIN RATING OF PARITION.
11. CONTRACTOR SHALL SEAL AROUND ALL PIPING, DUCTS, ETC. AND ENSURE THE INTEGRITY OF ALL REQUIRED FIRE AND/OR SMOKE SEPARATIONS IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
12. PROVIDE SEALANT AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXT WINDOW FRAMES, AMD MILLWORK/CASEWORK/CABINETRY WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE.
13. WHERE MULTIPLE SWITCHES, OUTLET, ETC. OCCUR ADJACENT TO EACH OTHER, GANG THEM AS CLOSELY TOGETHER AS POSSIBLE.
14. TELEPHONES AND COMPUTERS ARE NOT PART OF THIS CONTRACT. EXCEPT FOR THE INSTALLATION OF CONDUITS WITH PULL STRINGS WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS. INSTALLATIONS OF COMPUTER SYSTEMS AND TELEPHONES WILL BE DONE BY OTHERS. THE CONTRACTOR IS EXPECTED TO FULLY COOPERATE, AND ALLOW INSTALLERS ABOVE CEILING AND TO COORDINATE WITH THE OWNER AND TENANT TO FACILITATE ORDERLY INSTALLATION OF THESE SYSTEMS.
15. PATCH ALL HOLES IN FLOOR AND KNOCK DOWN ALL HIGH AREAS AS REQUIRED, PROVIDE SMOOTH, LEVEL CONC. SLAB SURFACE READY TO RECEIVE NEW FINISHES.
16. CONTRACTOR TO COORDINATE LOCATION OF POWER ASSIST BUTTONS, EMERGENCY RELEASE BUTTONS, AND CARD READERS WITH ARCHITECT AND OWNER PRIOR TO CONSTRUCTION.
17. CONTRACTOR TO COORDIANTE LOCATION OF THE KNOX BOX WITH THE FIRE DEPARTMENT PRIOR TO CONSTRUCTION.
18. REFER TO STRUCTURAL DRAWINGS FOR FLOOR SLOPES AND ELEVATIONS.
19. REFER TO SHEETS A7.10 FOR DOOR SCHDEULE AND DETAILS.
20. REFER TO SHEET A7.30 FOR FINISH SELECTION SUMMARY.

FLOOR PLAN LEGEND

- Ref / 1 / A1.01 / 1 / Ref — ELEVATION INTERIOR, REF. SYMBOL (UNFILLED ARROWS ARE EXTERIOR)
- G3.3 — PARTITION TYPE SYMBOL. REF. PARTITION TYPE SCHEDULE
- F25 — EXTERIOR / INTERIOR FRAME AND GLAZING NUMBER. REF. INTERIOR GLAZING SCHEDULE
- 01 /A1.01 / Ref — ENLARGED DETAIL NUMBER/ SHEET NUMBER
- FEC — FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER. (U.N.O.)
- ? — SIGNAGE TAG. REFER TO SIGNAGE SCHEDULE
- NEW WALL CONSTRUCTION. REFER TO A-600 FOR WALL PARTITION TYPES AND ASSEMBLIES
- NEW 1 HR FIRE RATED WALL CONSTRUCTION. REFER TO A-600 FOR WALL PARTITION TYPES AND ASSEMBLIES
- NEW CONCRETE FLOOR CONSTRUCTION. REFER STRUCTURAL FOR CONSTRUCTION & CIVIL FOR ELEVATION GRADE
- EXISTING BUILDING AREA WITH NO ARCHITECTURAL SCOPE OF WORK SCHEDULED FOR CONSTRUCTION. REFER TO MEP, FIRE PROTECTION, AND STRUCTURAL DRAWINGS FOR ANY SCOPE OF WORK IN THIS AREA
- D308 — DOOR NUMBER. REF. DOOR SCHEDULE

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

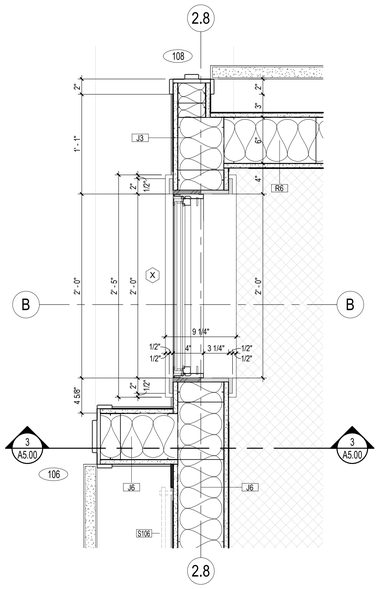
INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

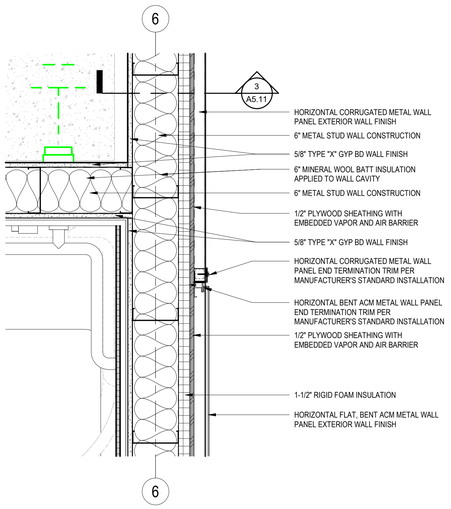
REV.	DATE	TITLE

Date: 95% CONSTRUCTION DOCS 05-04-2026
Project No. 3015
Drawn By: KR
Checked By: KR
Sheet Title: PLAN DETAILS
Drawing No. **A6.00**

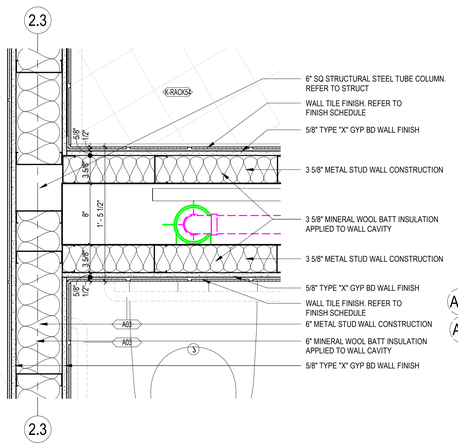
5/7/2026 1:47:11 PM



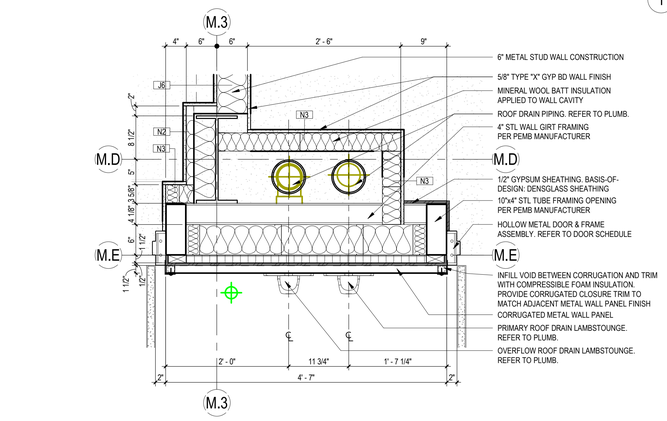
8 ADMIN BLDG - COMMUNITY ROOM WINDOW
1 1/2" = 1'-0"



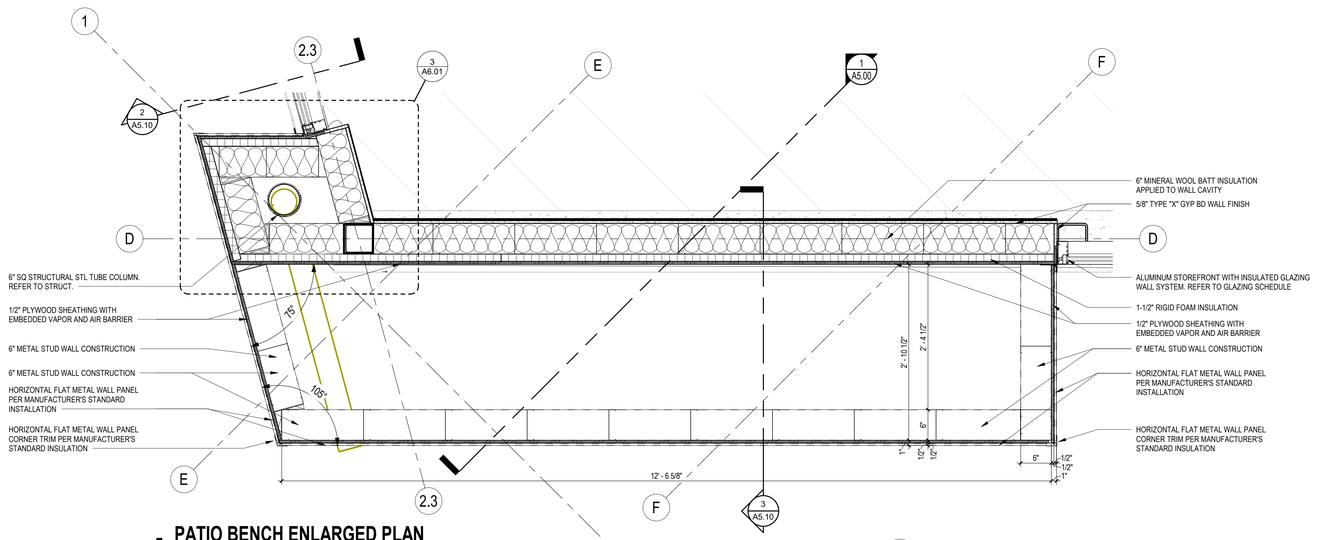
7 ADMIN BLDG - METAL PANEL TRANSITION DTL
1 1/2" = 1'-0"



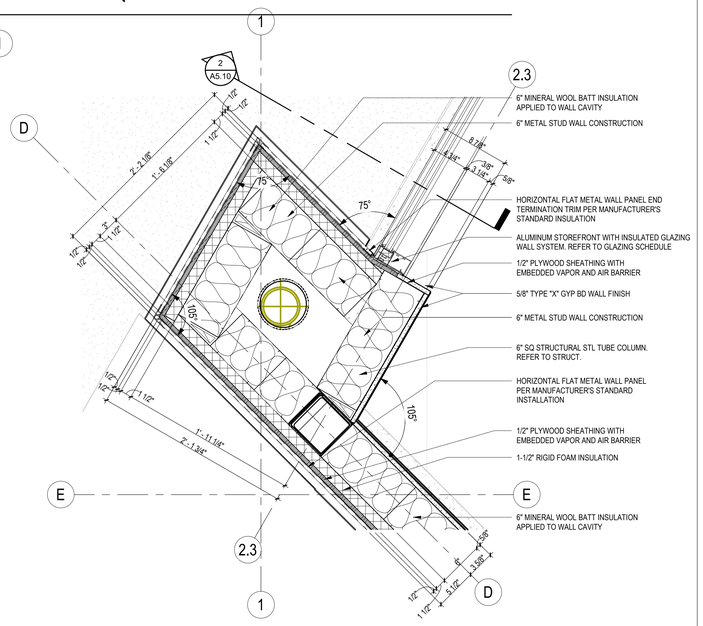
6 ADMIN BLDG - PUBLIC TOILET CHASE
1 1/2" = 1'-0"



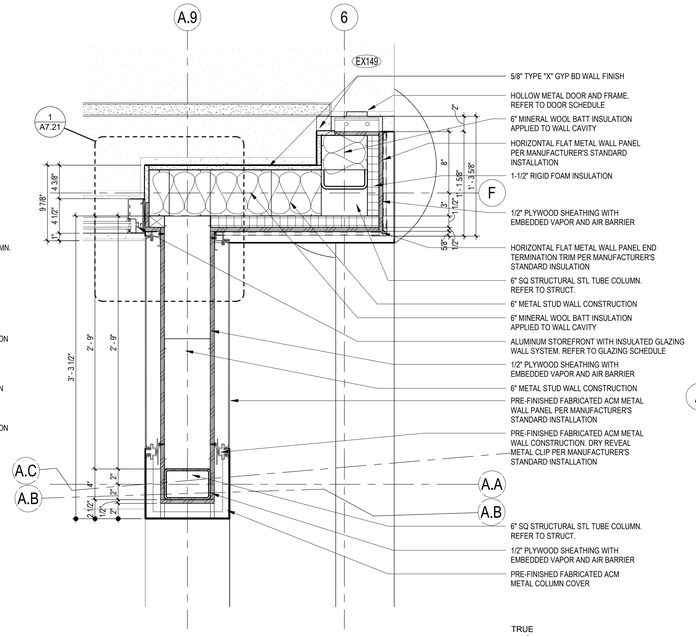
4 MECHANIC SHOP RESTROOM ENLARGED PLAN DTL
1" = 1'-0"



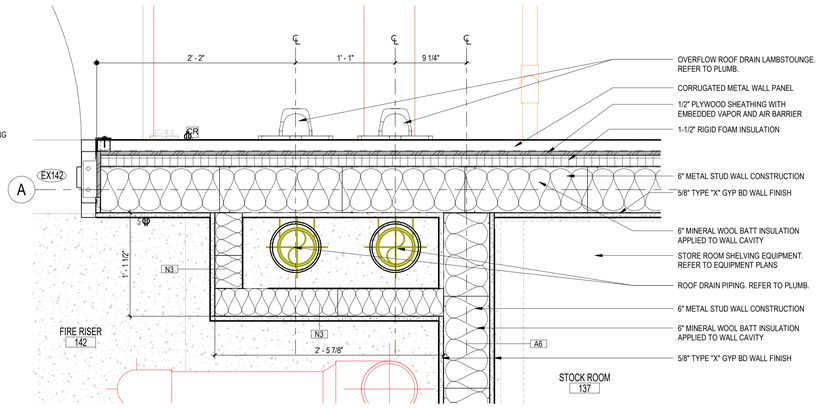
5 PATIO BENCH ENLARGED PLAN
1" = 1'-0"



3 ADMIN BLDG - LOBBY PLAN DTL @ 4'AFF
1 1/2" = 1'-0"



2 ADMIN BLDG ENTRY CANOPY COLUMN DTL
1 1/2" = 1'-0"



1 ADMIN BLDG FIRE RISER ROOF DRAIN DTL
1 1/2" = 1'-0"

FLOOR PLAN GENERAL NOTES

1 PARTITION TYPES ARE SHOWN ON A7.00. REFER TO ADDITIONAL FIRE AND SMOKE RATED INFORMATION ON LIFE SAFETY SHEET LS1.01 AND THE LIFE SAFETY REPORT IN THE PROJECT MANUAL.

2 DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. LARGE SCALE DIMENSIONS GOVERN OVER SMALL SCALE. DIMENSIONS SHOWN ON THE FLOOR PLANS ARE FROM CENTERLINE OF COLUMNS TO FACE OF FINISH OF INTERIOR WALLS AND TO FACE OF FINISH OF EXTERIOR WALLS UNLESS INDICATED OTHERWISE ON PLANS. IF DIMENSIONS ARE IN QUESTION, THE CONTACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.

3 ALL ANGLED WALLS ARE AT 45 DEGREE ANGLES, U.N.O.

4 SINKS SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE SINK IS 1'-3" MINIMUM TO THE FACE OF THE ADJACENT FIXED EQUIPMENT, SIDEWALL, MILLWORK, CASEWORK, ETC...

5 FOR FURTHER DIMENSIONS, SEE ENLARGED PLANS, SECTIONS, & ELEVATIONS.

6 CONTRACTOR IS RESPONSIBLE FOR BRACING AND BLOCKING OF WALLS RECEIVING MILLWORK/CASEWORK/CABINETRY, SHELVING, TELEPHONE BOARDS, ETC. ALL WOOD BLOCKING, GROUNDS, ROUGH BUCKS, AND MISCELLANEOUS BLOCKING IS TO BE FIRE-RETARDANT TREATED.

7 CONTRACTOR IS TO NOTIFY ARCHITECT IF FLOOR PENETRATIONS CONFLICT WITH STRUCTURAL ELEMENTS, DUCTWORK, ETC. PRIOR TO PROCEEDING WITH WORK.

8 SEE A7.40 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES, TOILET ACCESSORIES, FIRE ALARM DEVICES, ETC....

9 PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS AND EQUIPMENT ROOMS. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.

10 RECESSED ITEMS (GREATER THAN 16 SQUARE INCHES) IN RATED AND / OR SMOKE WALLS INCLUDING ELECTRICAL PANELS, ELECTRICAL BOXES, MED GAS VALAVE BOXES, FIRE EXTINGUISHER CABINETS, ETC... SHALL BE BACKED WITH 5/8" TYPE 'X' GYPSUM BOARD TO MAINTAIN RATING OF PARITION.

11 CONTRACTOR SHALL SEAL AROUND ALL PIPING, DUCTS, ETC. AND ENSURE THE INTEGRITY OF ALL REQUIRED FIRE AND/OR SMOKE SEPARATIONS IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.

12 PROVIDE SEALANT AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXT WINDOW FRAMES, AMD MILLWORK/CASEWORK/CABINETRY WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE.

13 WHERE MULTIPLE SWITCHES, OUTLET, ETC. OCCUR ADJACENT TO EACH OTHER, GANG THEM AS CLOSELY TOGETHER AS POSSIBLE.

14 TELEPHONES AND COMPUTERS ARE NOT PART OF THIS CONTRACT. EXCEPT FOR THE INSTALLATION OF CONDUITS WITH PULL STRINGS WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS. INSTALLATIONS OF COMPUTER SYSTEMS AND TELEPHONES WILL BE DONE BY OTHERS. THE CONTRACTOR IS EXPECTED TO FULLY COOPERATE, AND ALLOW INSTALLERS ABOVE CEILING AND TO COORDINATE WITH THE OWNER AND TENANT TO FACILITATE ORDERLY INSTALLATION OF THESE SYSTEMS.

15 PATCH ALL HOLES IN FLOOR AND KNOCK DOWN ALL HIGH AREAS AS REQUIRED, PROVIDE SMOOTH, LEVEL CONC. SLAB SURFACE READY TO RECEIVE NEW FINISHES.

16 CONTRACTOR TO COORDINATE LOCATION OF POWER ASSIST BUTTONS, EMERGENCY RELEASE BUTTONS, AND CARD READERS WITH ARCHITECT AND OWNER PRIOR TO CONSTRUCTION.

17 CONTRACTOR TO COORDIANTE LOCATION OF THE KNOX BOX WITH THE FIRE DEPARTMENT PRIOR TO CONSTRUCTION.

18 REFER TO STRUCTURAL DRAWINGS FOR FLOOR SLOPES AND ELEVATIONS.

19 REFER TO SHEETS A7.10 FOR DOOR SCHDEULE AND DETAILS.

20 REFER TO SHEET A7.30 FOR FINISH SELECTION SUMMARY.

FLOOR PLAN LEGEND

- Ref / A1.01 / Ref — ELEVATION INTERIOR, REF. SYMBOL (UNFILLED ARROWS ARE EXTERIOR)
- G3.3 — PARTITION TYPE SYMBOL. REF. PARTITION TYPE SCHEDULE
- F25 — EXTERIOR / INTERIOR FRAME AND GLAZING NUMBER. REF. INTERIOR GLAZING SCHEDULE
- 01 /A1.01 Ref — ENLARGED DETAIL NUMBER/ SHEET NUMBER
- FEC — FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER. (U.N.O.)
- ? — SIGNAGE TAG. REFER TO SIGNAGE SCHEDULE
- NEW WALL CONSTRUCTION. REFER TO A-600 FOR WALL PARTITION TYPES AND ASSEMBLIES
- NEW 1 HR FIRE RATED WALL CONSTRUCTION. REFER TO A-600 FOR WALL PARTITION TYPES AND ASSEMBLIES
- NEW CONCRETE FLOOR CONSTRUCTION. REFER STRUCTURAL FOR CONSTRUCTION & CIVIL FOR ELEVATION GRADE
- EXISTING BUILDING AREA WITH NO ARCHITECTURAL SCOPE OF WORK SCHEDULED FOR CONSTRUCTION. REFER TO MEP, FIRE PROTECTION, AND STRUCTURAL DRAWINGS FOR ANY SCOPE OF WORK IN THIS AREA
- D300 — DOOR NUMBER. REF. DOOR SCHEDULE

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

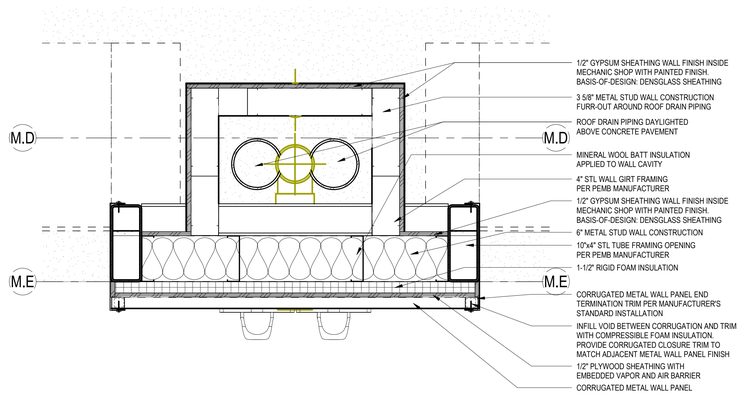
Drawn By:
KR

Checked By:
KR

Sheet Title:
PLAN DETAILS

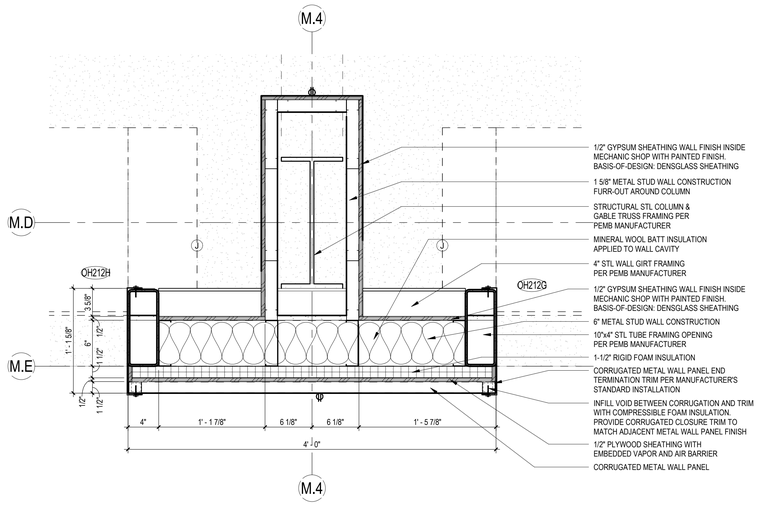
Drawing No.
A6.01

5/7/2026 1:47:15 PM



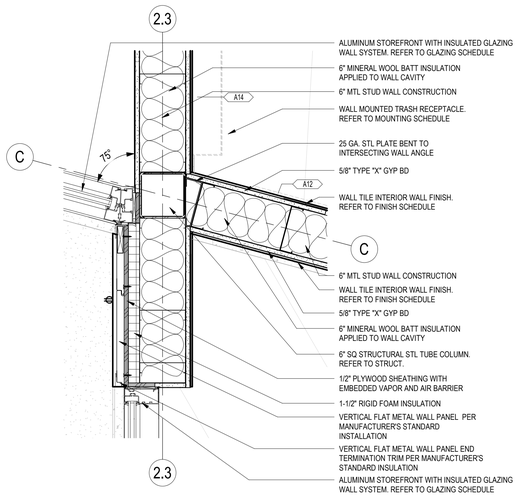
3 MECHANIC SHOP - ROOF DRAIN PLAN DETAIL

1 1/2" = 1'-0"



2 MECHANIC SHOP - COLUMN & OH DOOR PLAN DTL

1 1/2" = 1'-0"



1 ADMIN BLDG - COMMUNITY ROOM STOREFRONT DTL

1 1/2" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. PARTITION TYPES ARE SHOWN ON A7.00. REFER TO ADDTIONAL FIRE AND SMOKE RATED INFORMATION ON LIFE SAFETY SHEET LS1.01 AND THE LIFE SAFETY REPORT IN THE PROJECT MANUAL.
2. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. LARGE SCALE DIMENSIONS GOVERN OVER SMALL SCALE. DIMENSIONS SHOWN ON THE FLOOR PLANS ARE FROM CENTERLINE OF COLUMNS TO FACE OF FINISH OF INTERIOR WALLS AND TO FACE OF FINISH OF EXTERIOR WALLS UNLESS INDICATED OTHERWISE ON PLANS. IF DIMENSIONS ARE IN QUESTION, THE CONTACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
3. ALL ANGLED WALLS ARE AT 45 DEGREE ANGLES, U.N.O.
4. SINKS SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE SINK IS 1'-3" MINIMUM TO THE FACE OF THE ADJACENT FIXED EQUIPMENT, SIDEWALL, MILLWORK, CASEWORK, ETC...
5. FOR FURTHER DIMENSIONS, SEE ENLARGED PLANS, SECTIONS, & ELEVATIONS.
6. CONTRACTOR IS RESPONSIBLE FOR BRACING AND BLOCKING OF WALLS RECEIVING MILLWORK/CASEWORK/CABINETRY, SHELVING, TELEPHONE BOARDS, ETC. ALL WOOD BLOCKING, GROUNDS, ROUGH BUCKS, AND MISCELLANEOUS BLOCKING IS TO BE FIRE-RETARDANT TREATED.
7. CONTRACTOR IS TO NOTIFY ARCHITECT IF FLOOR PENETRATIONS CONFLICT WITH STRUCTURAL ELEMENTS, DUCTWORK, ETC. PRIOR TO PROCEEDING WITH WORK.
8. SEE A7.40 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES, TOILET ACCESSORIES, FIRE ALARM DEVICES, ETC....
9. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS AND EQUIPMENT ROOMS. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
10. RECESSED ITEMS (GREATER THAN 16 SQUARE INCHES) IN RATED AND / OR SMOKE WALLS INCLUDING ELECTRICAL PANELS, ELECTRICAL BOXES, MED GAS VALAVE BOXES, FIRE EXTINGUISHER CABINETS, ETC... SHALL BE BACKED WITH 5/8" TYPE 'X' GYPSUM BOARD TO MAINTAIN RATING OF PARITION.
11. CONTRACTOR SHALL SEAL AROUND ALL PIPING, DUCTS, ETC. AND ENSURE THE INTEGRITY OF ALL REQUIRED FIRE AND/OR SMOKE SEPARATIONS IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
12. PROVIDE SEALANT AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXT WINDOW FRAMES, AMD MILLWORK/CASEWORK/CABINETRY WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE.
13. WHERE MULTIPLE SWITCHES, OUTLET, ETC. OCCUR ADJACENT TO EACH OTHER, GANG THEM AS CLOSELY TOGETHER AS POSSIBLE.
14. TELEPHONES AND COMPUTERS ARE NOT PART OF THIS CONTRACT. EXCEPT FOR THE INSTALLATION OF CONDUITS WITH PULL STRINGS WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS. INSTALLATIONS OF COMPUTER SYSTEMS AND TELEPHONES WILL BE DONE BY OTHERS. THE CONTRACTOR IS EXPECTED TO FULLY COOPERATE, AND ALLOW INSTALLERS ABOVE CEILING AND TO COORDINATE WITH THE OWNER AND TENANT TO FACILITATE ORDERLY INSTALLATION OF THESE SYSTEMS.
15. PATCH ALL HOLES IN FLOOR AND KNOCK DOWN ALL HIGH AREAS AS REQUIRED, PROVIDE SMOOTH, LEVEL CONC. SLAB SURFACE READY TO RECEIVE NEW FINISHES.
16. CONTRACTOR TO COORDINATE LOCATION OF POWER ASSIST BUTTONS, EMERGENCY RELEASE BUTTONS, AND CARD READERS WITH ARCHITECT AND OWNER PRIOR TO CONSTRUCTION.
17. CONTRACTOR TO COORDIANTE LOCATION OF THE KNOX BOX WITH THE FIRE DEPARTMENT PRIOR TO CONSTRUCTION.
18. REFER TO STRUCTURAL DRAWINGS FOR FLOOR SLOPES AND ELEVATIONS.
19. REFER TO SHEETS A7.10 FOR DOOR SCHDEULE AND DETAILS.
20. REFER TO SHEET A7.30 FOR FINISH SELECTION SUMMARY.

FLOOR PLAN LEGEND

- Ref / A1.01 / Ref — ELEVATION INTERIOR, REF. SYMBOL (UNFILLED ARROWS ARE EXTERIOR)
- G3.3 — PARTITION TYPE SYMBOL. REF. PARTITION TYPE SCHEDULE
- F25 — EXTERIOR / INTERIOR FRAME AND GLAZING NUMBER. REF. INTERIOR GLAZING SCHEDULE
- 01 /A1.01 / Ref — ENLARGED DETAIL NUMBER/ SHEET NUMBER
- FEC — FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER. (U.N.O.)
- ? — SIGNAGE TAG. REFER TO SIGNAGE SCHEDULE
- NEW WALL CONSTRUCTION. REFER TO A-600 FOR WALL PARTITION TYPES AND ASSEMBLIES
- NEW 1 HR FIRE RATED WALL CONSTRUCTION. REFER TO A-600 FOR WALL PARTITION TYPES AND ASSEMBLIES
- NEW CONCRETE FLOOR CONSTRUCTION. REFER STRUCTURAL FOR CONSTRUCTION & CIVIL FOR ELEVATION GRADE
- EXISTING BUILDING AREA WITH NO ARCHITECTURAL SCOPE OF WORK SCHEDULED FOR CONSTRUCTION. REFER TO MEP, FIRE PROTECTION, AND STRUCTURAL DRAWINGS FOR ANY SCOPE OF WORK IN THIS AREA
- D.000 — DOOR NUMBER. REF. DOOR SCHEDULE

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

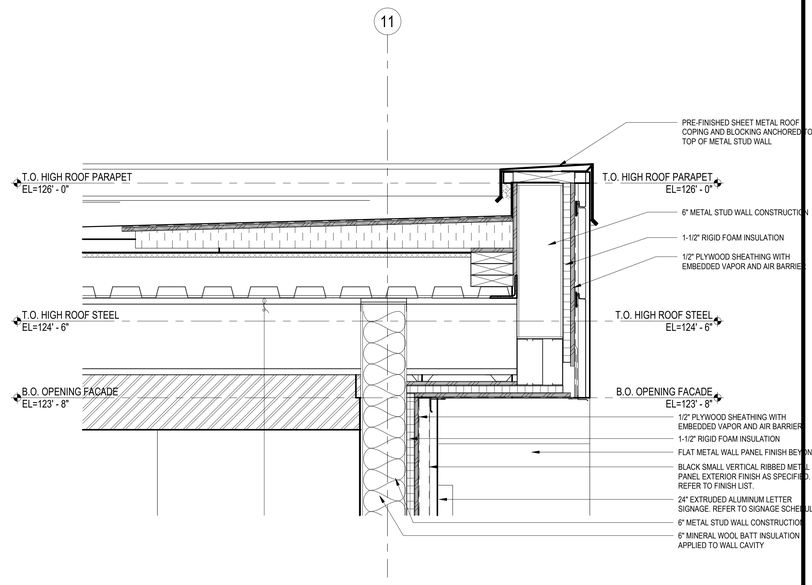
Drawn By:
KR

Checked By:
KR

Sheet Title:
PLAN DETAILS

Drawing No.
A6.02

5/7/2026 1:47:17 PM



1 **ADMIN - WALL SECTION #3 - Callout 1**
1 1/2" = 1'-0"

5/7/2026 1:47:17 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade
ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

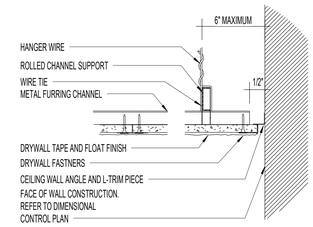
Project No.
3015

Drawn By:
KR

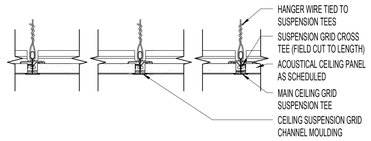
Checked By:
KR

Sheet Title:
SECTION DETAILS

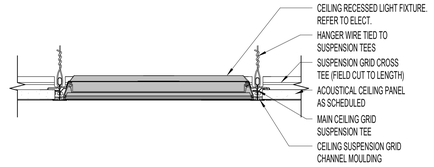
Drawing No.
A6.20



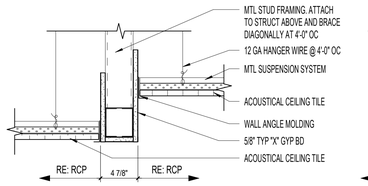
7 GYP BD CEILING DTL, TYP.
1 1/2" = 1'-0"



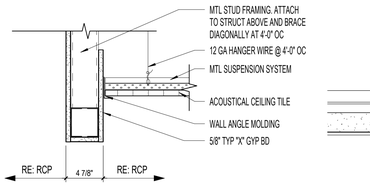
6 ACT CEILING TILE DETAIL,TYP.
1 1/2" = 1'-0"



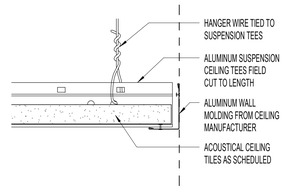
5 ACT CEILING / RECESSED LIGHT FIXTURE DTL
1 1/2" = 1'-0"



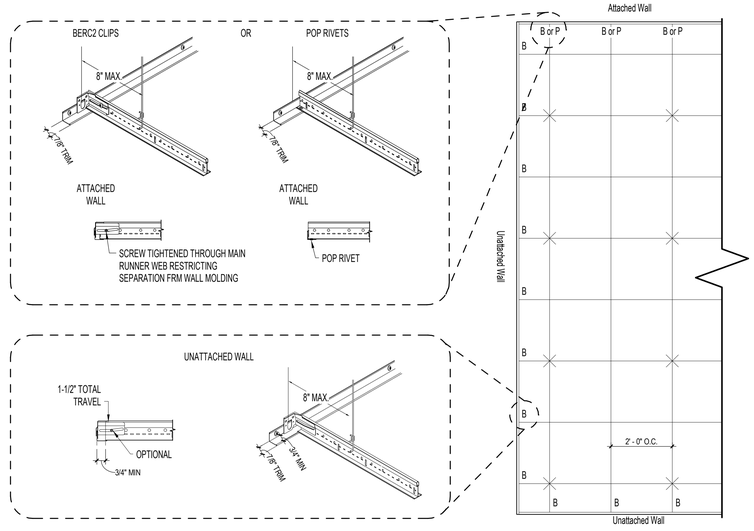
4 FURR-DOWN CEILING DETAIL
1 1/2" = 1'-0"



3 FURR-DOWN CEILING DETAIL
1 1/2" = 1'-0"



2 ACT CEILING / WALL DTL, TYP.
1 1/2" = 1'-0"



1 ACT CEILING GRID
1/2" = 1'-0"

5/7/2026 1:47:18 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

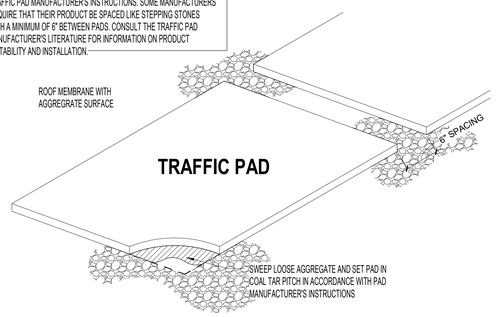
Drawn By:
Author

Checked By:
SYA

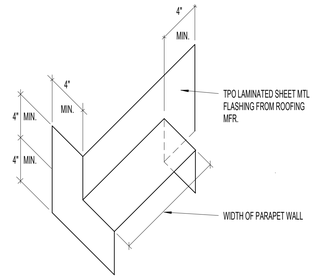
Sheet Title:
CEILING DETAILS

Drawing No.
A6.30

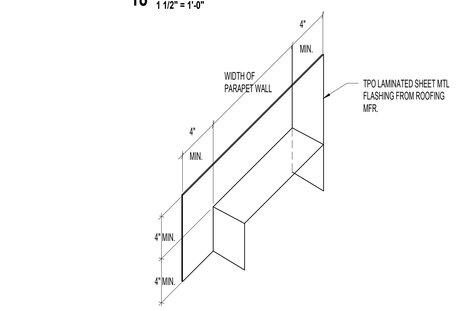
TRAFFIC PADS SHOULD BE INSTALLED AFTER THE ROOF HAS BEEN COMPLETELY SURFACED WITH GRAVEL, SLAG, ETC. ALL LOOSE SURFACING MATERIALS SHOULD BE SWEPT FROM THE AREA AND THE TRAFFIC PAD ADHERED IN COAL TAR PITCH IN ACCORDANCE WITH THE TRAFFIC PAD MANUFACTURER'S INSTRUCTIONS. SOME MANUFACTURERS REQUIRE THAT THEIR PRODUCT BE SPACED LIKE STEPPING STONES WITH A MINIMUM OF 6" BETWEEN PADS. CONSULT THE TRAFFIC PAD MANUFACTURER'S LITERATURE FOR INFORMATION ON PRODUCT SUITABILITY AND INSTALLATION.



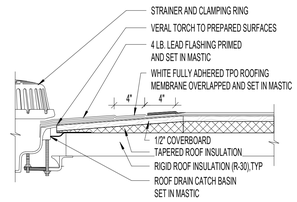
9 **STD ROOF DETAIL 7**
1 1/2" = 1'-0"



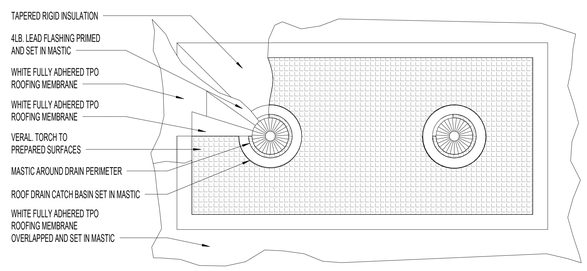
18 **TPO - PARAPET SADDLE "B" FLASHING**
1 1/2" = 1'-0"



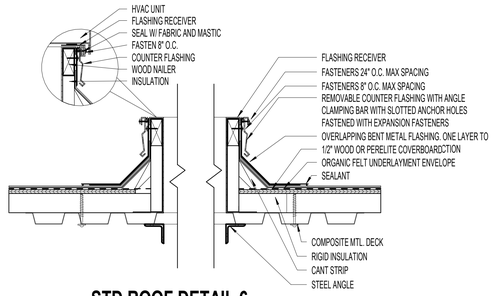
17 **TPO - PARAPET SADDLE "A" FLASHING**
1 1/2" = 1'-0"



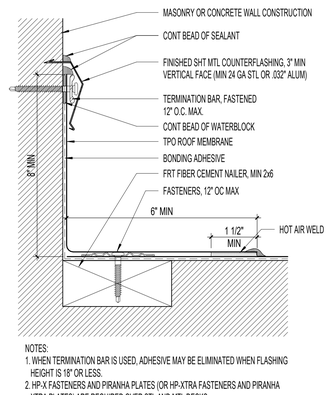
16 **ROOF DRAIN SECTION DTL.**
1 1/2" = 1'-0"



15 **ROOF DRAIN SUMP AREA PLAN DETAIL**
1 1/2" = 1'-0"

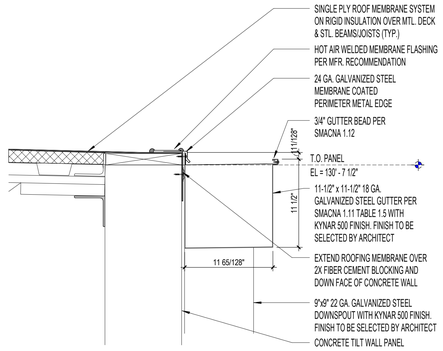


10 **STD ROOF DETAIL 6**
1 1/2" = 1'-0"

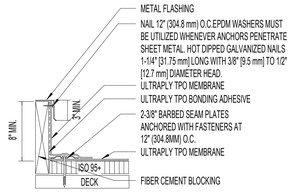


NOTES:
1. WHEN TERMINATION BAR IS USED, ADHESIVE MAY BE ELIMINATED WHEN FLASHING HEIGHT IS 18" OR LESS.
2. HP-X FASTENERS AND PIRANHA PLATES (OR HP-XTRA FASTENERS AND PIRANHA XTRA PLATES) ARE REQUIRED OVER STL AND MTL DECKS.
3. FASTENING PLATES CAN BE INSTALLED VERTICALLY.

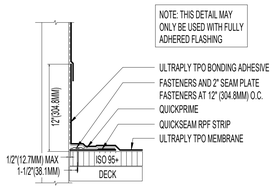
22 **TPO - TERMINATION BAR AND FLASHING**
6" = 1'-0"



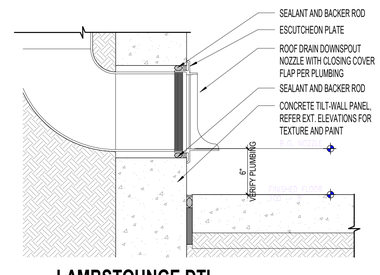
8 **GUTTER & DOWNSPOUT DTL**
1 1/2" = 1'-0"



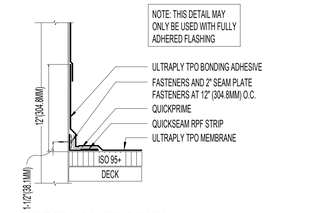
7 **CURB FLASHING**
1 1/2" = 1'-0"



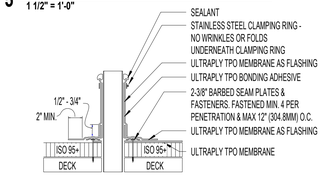
6 **HORIZONTAL FLASHING**
1 1/2" = 1'-0"



13 **LAMBSTOUNGE DTL**
1 1/2" = 1'-0"

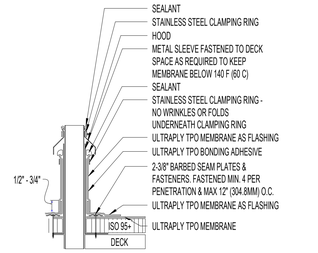


5 **VERTICAL FLASHING**
1 1/2" = 1'-0"



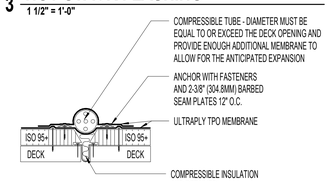
NOTES:
1. REMOVE ALL EXISTING FLSHINGS, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, ETC.
2. PIPE MUST BE ANCHORED TO BOTTOM SIDE OF DECK TO ASSURE STABILITY
3. FASTENERS AND PLATES NOT REQUIRED WITH BALLASTED OR ADHERED SYSTEMS
4. IF REINFORCEMENT IS EXPOSED, APPLICATION OF SEALANT REQUIRED

4 **PIPE FLASHING**
1 1/2" = 1'-0"

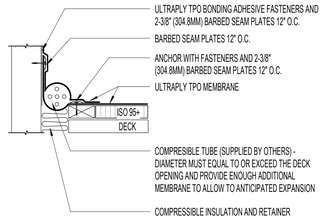


NOTES:
1. REMOVE ALL EXISTING FLSHINGS, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, ETC.
2. PIPE MUST BE ANCHORED TO BOTTOM SIDE OF DECK TO ASSURE STABILITY
3. FASTENERS AND PLATES NOT REQUIRED WITH BALLASTED OR ADHERED SYSTEMS
4. IF REINFORCEMENT IS EXPOSED, APPLICATION OF SEALANT REQUIRED

3 **HOT STACK FLASHING**
1 1/2" = 1'-0"



2 **EXPANSION JOINT**
1 1/2" = 1'-0"



1 **WALL EXPANSION JOINT**
1 1/2" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
X X X

Checked By:
SYA

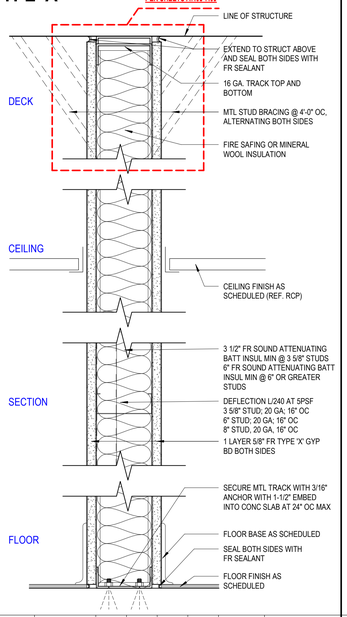
Sheet Title:
ROOF DETAILS

Drawing No.
A6.50

5/7/2026 1:47:20 PM

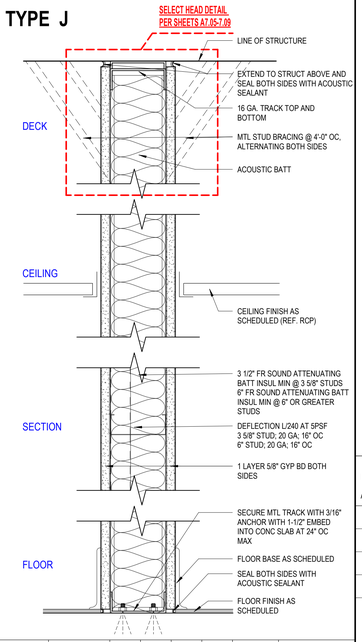
PARTITION TYPES

TYPE A



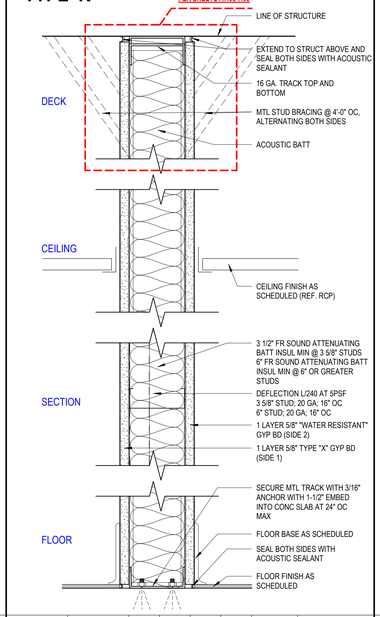
PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
A2	A2	2-1/2"	3-3/4"	SMOKE RESIST	U419	34 / 45 (2-1/2" SAB)	
A3	A3	3-5/8"	4-7/8"	SMOKE RESIST	U465	37 / 44 (3-1/2" SAB)	USG 150919
A6	A6	6"	7-1/4"	SMOKE RESIST	U465	37 / 44 (6" SAB)	NGC 2018130
A8	A8	8"	9-1/4"	SMOKE RESIST	U465	37 / 44 (6" SAB)	
A2	A2	2-1/2"	3-3/4"	1 HR	U419	34 / 45 (2-1/2" SAB)	
A3	A3	3-5/8"	4-7/8"	1 HR	U465	37 / 44 (3-1/2" SAB)	USG 150919
A6	A6	6"	7-1/4"	1 HR	U465	37 / 44 (6" SAB)	NGC 2018130
A8	A8	8"	9-1/4"	1 HR	U465	37 / 44 (6" SAB)	
A2	A2	2-1/2"	3-3/4"	1 HR / SMOKE	U419	34 / 45 (2-1/2" SAB)	
A3	A3	3-5/8"	4-7/8"	1 HR / SMOKE	U465	37 / 44 (3-1/2" SAB)	USG 150919
A6	A6	6"	7-1/4"	1 HR / SMOKE	U465	37 / 44 (6" SAB)	NGC 2018130
A8	A8	8"	9-1/4"	1 HR / SMOKE	U465	37 / 44 (6" SAB)	

TYPE J



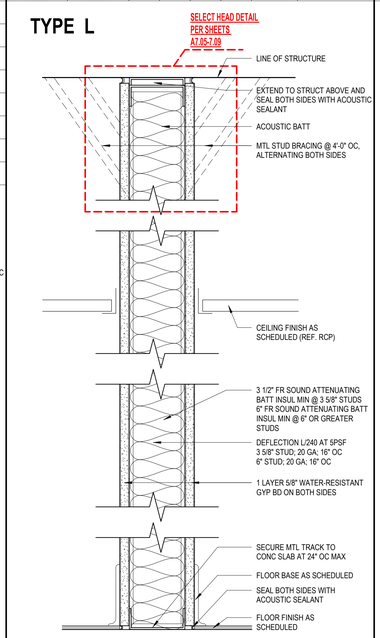
PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
J2	J2	2-1/2"	3-3/4"	NONE	N/A	34 / 45 (2-1/2" SAB)	
J3	J3	3-5/8"	4-7/8"	NONE	N/A	37 / 44 (3-1/2" SAB)	USG 150919
J6	J6	6"	7-1/4"	NONE	N/A	37 / 44 (6" SAB)	NGC 2018130
J8	J8	8"	9-1/4"	NONE	N/A	37 / 44 (6" SAB)	

TYPE K



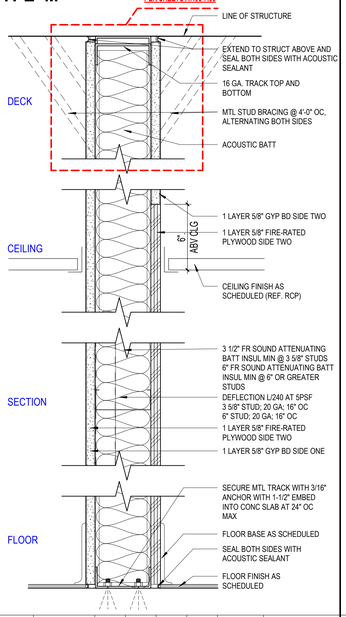
PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
K2	K2	2-1/2"	3-3/4"	NONE	N/A	34 / 45 (2-1/2" SAB)	
K3	K3	3-5/8"	4-7/8"	NONE	N/A	37 / 44 (3-1/2" SAB)	USG 150919
K6	K6	6"	7-1/4"	NONE	N/A	37 / 44 (6" SAB)	NGC 2018130
K8	K8	8"	9-1/4"	NONE	N/A	37 / 44 (6" SAB)	

TYPE L



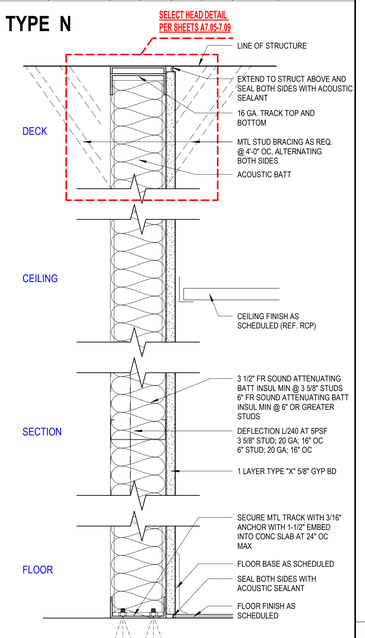
PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
L2	L2	2-1/2"	3-3/4"	NONE	N/A	34 / 45 (2-1/2" SAB)	
L3	L3	3-5/8"	4-7/8"	NONE	N/A	37 / 44 (3-1/2" SAB)	USG 150919
L6	L6	6"	7-1/4"	NONE	N/A	37 / 44 (6" SAB)	NGC 2018130
L8	L8	8"	9-1/4"	NONE	N/A	37 / 44 (6" SAB)	

TYPE M



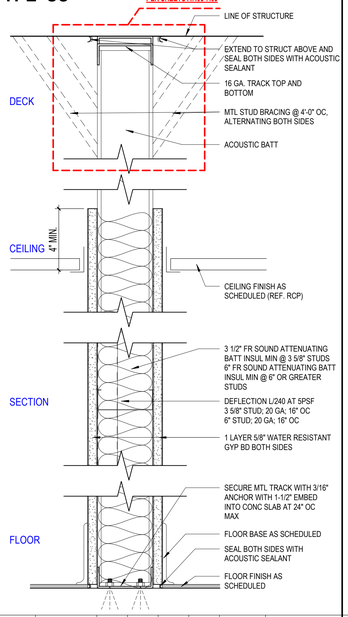
PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
M2	M2	2-1/2"	3-3/4"	1-HR	N/A	34 / 45 (2-1/2" SAB)	
M3	M3	3-5/8"	4-7/8"	1-HR	N/A	37 / 44 (3-1/2" SAB)	USG 150919
M6	M6	6"	7-1/4"	1-HR	N/A	37 / 44 (6" SAB)	NGC 2018130
M8	M8	8"	9-1/4"	1-HR	N/A	37 / 44 (6" SAB)	

TYPE N



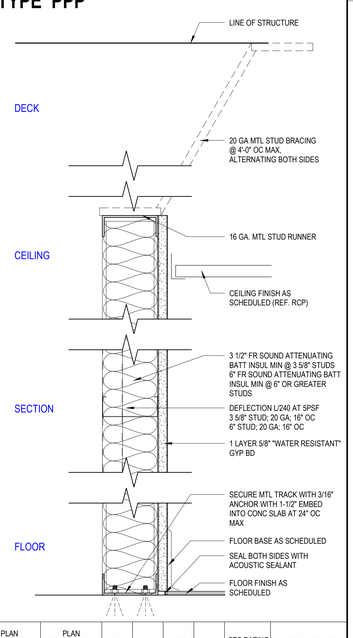
PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
N2	N2	2-1/2"	3-1/8"	NONE	N/A	N/A	
N3	N3	3-5/8"	4-1/4"	NONE	N/A	N/A	
N6	N6	6"	6-5/8"	NONE	N/A	N/A	
N8	N8	8"	8-5/8"	NONE	N/A	N/A	

TYPE SS



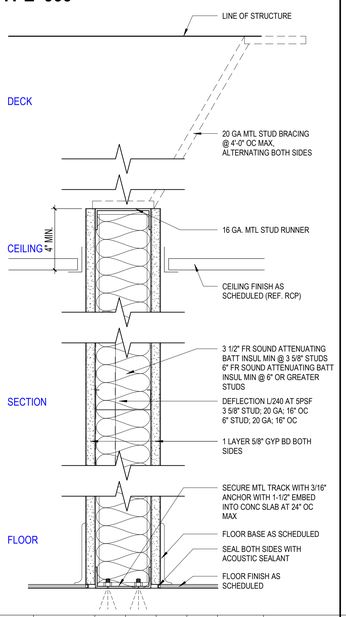
PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
SS3	SS3	3-5/8"	4-7/8"	NONE	N/A	N/A / 20 (3-1/2" SAB)	
SS6	SS6	6"	7-1/4"	NONE	N/A	N/A / 20 (6" SAB)	
SS8	SS8	8"	9-1/4"	NONE	N/A	N/A / 20 (6" SAB)	

TYPE PPP



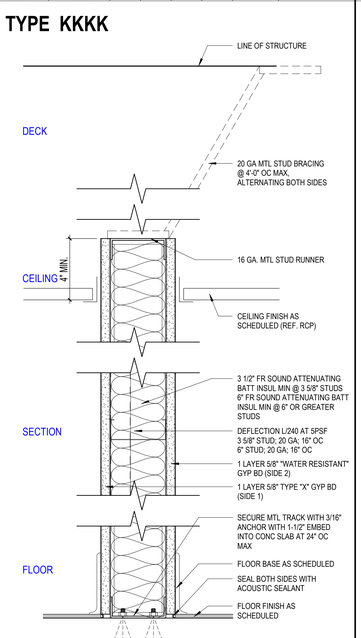
PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
PPP2	PPP2	2-1/2"	3-3/4"	NONE	N/A	N/A / 20	
PPP3	PPP3	3-5/8"	4-7/8"	NONE	N/A	N/A / 20	
PPP6	PPP6	6"	7-1/4"	NONE	N/A	N/A / 20	
PPP8	PPP8	8"	9-1/4"	NONE	N/A	N/A / 20	

TYPE JJJ



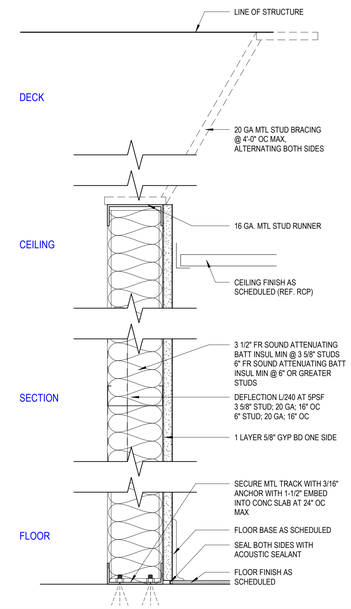
PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
JJJ2	JJJ2	2-1/2"	3-3/4"	NONE	N/A	N/A / 20	
JJJ3	JJJ3	3-5/8"	4-7/8"	NONE	N/A	N/A / 20	
JJJ6	JJJ6	6"	7-1/4"	NONE	N/A	N/A / 20	
JJJ8	JJJ8	8"	9-1/4"	NONE	N/A	N/A / 20	

TYPE KKKK



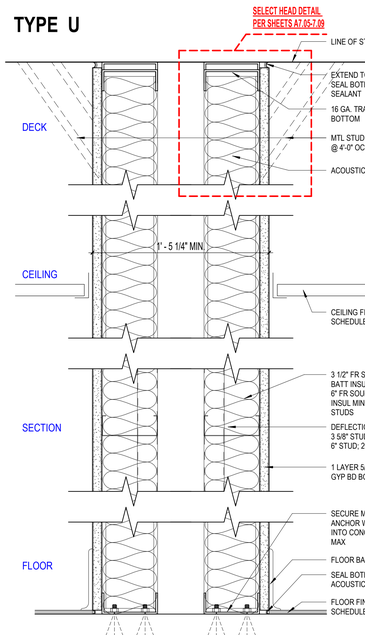
PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
KKKK2	KKKK2	2-1/2"	3-3/4"	NONE	N/A	N/A / 20	
KKKK3	KKKK3	3-5/8"	4-7/8"	NONE	N/A	N/A / 20	
KKKK6	KKKK6	6"	7-1/4"	NONE	N/A	N/A / 20	
KKKK8	KKKK8	8"	9-1/4"	NONE	N/A	N/A / 20	

TYPE NNN



PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
NNN2	NNN2	2-1/2"	3-3/4"	NONE	N/A	N/A / 20	
NNN3	NNN3	3-5/8"	4-7/8"	NONE	N/A	N/A / 20	
NNN6	NNN6	6"	7-1/4"	NONE	N/A	N/A / 20	
NNN8	NNN8	8"	9-1/4"	NONE	N/A	N/A / 20	

TYPE U



PLAN DESIGNATION (NO SOUND ATTENUATION)	PLAN DESIGNATION (SOUND ATTENUATION)	STUD SIZE	WALL WIDTH	FIRE RATING	UL LISTING	STC RATING (NO SOUND / W-SOUND)	UL TEST REPORT & REMARKS
U3	U3	3-5/8"	17-1/4"	NONE	N/A	STC 57	TOILET CHASE - WALL MOUNT BACK-TO-BACK
U6	U6	6"	17-1/4"	NONE	N/A	STC 57	TOILET CHASE - WALL MOUNT BACK-TO-BACK

PARTITION GENERAL NOTES

01. NOT ALL PARTITIONS SHOWN ON THIS SCHEDULE ARE USED IN THE CURRENT ISSUE. REFER TO PLANS FOR SPECIFIC PARTITIONS USED.
02. ALL PARTITION TYPES ARE DESIGNATED ON THE PLAN BY SYMBOL UNLESS NOTED OTHERWISE.
03. REFER TO SPECIFICATIONS FOR FRAMING GUAGES AND SPACING.
04. ALL GYPSUM BOARD SHALL BE 5/8" TYPE "X" UNLESS NOTED OTHERWISE.
05. THICKNESS OF FIRE-RATED AND NON-FIRE-RATED SOUND ATTENUATING BATT INSULATION SHALL MATCH THE THICKNESS OF THE FRAMING IN WHICH IT IS INSTALLED.
06. PROVIDE ONE LAYER OF CEMENTITIOUS WALL BOARD AT PARTITIONS BEHIND PLUMBING FIXTURES. MOISTURE RESISTANT GYPSUM BOARD SHALL BE INSTALLED IN PARTITIONS PERPENDICULAR TO PLUMBING FIXTURE WALL WITHIN 2'-0" OF THE INTERSECTION.
07. CERAMIC TILE SHALL BE INSTALLED ON 5/8" CEMENTITIOUS WALL BOARD. CEMENTITIOUS WALL BOARD SHALL BE PROVIDED IN LIEU OF THE OUTER LAYER OF GYPSUM BOARD IN NON FIRE-RATED PARTITIONS. CEMENTITIOUS WALL BOARD SHALL BE PROVIDED OVER THE SCHEDULED PARTITION ASSEMBLY IF FIRE-RATED.
08. ALL PARTITIONS EXTEND TO BOTTOM OF STRUCTURE UNLESS NOTED OTHERWISE.
09. REFER TO SPECIFICATIONS FOR SEALANT TYPES AND USAGE LOCATIONS.
10. ALL FRAMING IS 16" ON CENTER UNLESS NOTED OTHERWISE.
11. REFER TO SECTION 078413-3.5 FOR PENETRATION FIRESTOPPING SCHEDULE.
12. PROVIDE SMOKE AND FIRE DAMPER AT RATED AND SMOKE PARTITION AS REQUIRED.
13. ALL FIRE-RATED AND SMOKE-RATED PARTITIONS SHALL BE IDENTIFIED AS SUCH WITH A LABEL AFFIXED 1'-0" ABOVE THE CEILING OR 10'-0" AFF.
14. AT THE INTERSECTION OF PARTITIONS, THE HIGHEST RATED PARTITION SHALL BE CONTINUOUS.
15. FIRE AND SMOKE RESISTANCE RATINGS ARE TO CONTINUE ABOVE ALL OPENINGS IN RATED PARTITIONS.
16. FOR TYPICAL PARTITION CONDITIONS AND SECTIONS, REFER TO PARTITION TYPES SCHEDULE.

5/7/2026 1:47:22 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

Checked By:
KR

Sheet Title:
PARTITION TYPES

Drawing No.
A7.00

PATCH & SEAL PENETRATIONS RATED AND/OR SMOKE WALLS

NOTES:
1. IF ANY PIPES ARE TO BE INSULATED, DO NOT RUN INSULATION THROUGH A RATED AND/OR SMOKE WALL. AFTER PACKING GAP AROUND PIPE THROUGH WALL WITH SAFING INSULATION AND DRYWALL MUD, FLARE INSULATION ONTO FACE OF WALL AROUND PIPE ON BOTH SIDES OR WALL, AND SEAL TO FACE OF WALL WITH INSULATION MASTIC.

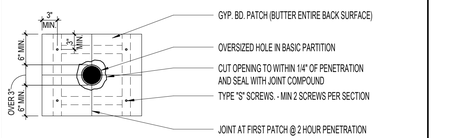
2. ONLY ONE (1) LAYER ON EACH SIDE OF WALL REQUIRED FOR 1 OR 2 HOUR WALLS. BLOW-OUT PATCH IS NOT ACCEPTABLE ON WALLS RATED AT 3 OR 4 HOURS.

3. BUTTER ENTIRE BACK SIDE OF PATCH WITH JOINT COMPOUND.

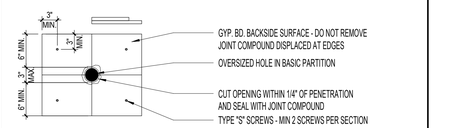
4. LEAVE ALL SCREWS EXPOSED.

5. PATCHES SHALL BE TYPE "X", AND OF THE SAME THICKNESS USED FOR WALL CONSTRUCTION.

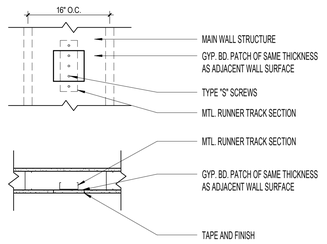
OPENINGS OVER 3" IN DIAMETER



OPENINGS UNDER 3" IN DIAMETER



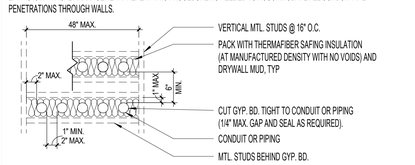
PATCH & SEAL HOLE IN RATED AND/OR SMOKE WALLS

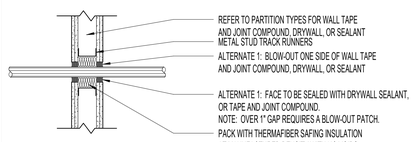


TYPICAL MULTI-CONDUIT OR PIPE PENETRATION

NOTES:
1. IF ANY PIPES ARE TO BE INSULATED, DO NOT RUN INSULATION THROUGH A RATED AND/OR SMOKE WALL. AFTER PACKING GAP AROUND PIPE THROUGH WALL WITH SAFING INSULATION AND DRYWALL MUD, FLARE INSULATION ONTO FACE OF WALL AROUND PIPE ON BOTH SIDES OR WALL, AND SEAL TO FACE OF WALL WITH INSULATION MASTIC.

2. THIS IS A TYPICAL ARRANGEMENT. REPEAT THIS PROCEDURE AS NEEDED TO ACCOMMODATE ALL CONDUIT PIPE PENETRATIONS THROUGH WALLS.





ALTERNATE 1 OR 2 MAY BE USED ON EITHER SIDE OF WALL, ONE SIDE OR PENETRATION MAY OPEN.

PATCHING SMALL PENETRATIONS

SMOKE RESISTANT PARTITION



SMALL OPENINGS MAY BE PATCHED USING JOINT COMPOUND, CAULK, OR BLOW-OUT PATCHES.



SMALL OPENINGS MAY BE PATCHED USING JOINT COMPOUND, CAULK, OR BLOW-OUT PATCHES.

1 HOUR RATED PARTITION



UP TO 1/2" OPENINGS MAY BE FILLED FULL DEPTH OF DRYWALL WITH ACOUSTICAL SEALANT, STRIKE BEYOND OPENING. ALTERNATIVELY, A PROPRIETARY SYSTEM MAY BE USED.

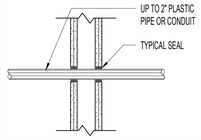
UP TO 1/4" OPENINGS MAY BE FILLED WITH JOINT COMPOUND.

UP TO 1/8" OPENINGS DO NOT REQUIRE ANY TREATMENT.

LARGER THAN 1/2" OPENINGS A BLOW-OUT PATCH. VERIFY WITH LOCAL AUTHORITIES FOR USE OF BLOW-OUT PATCH.

WALL PENETRATIONS @ RATED / SMOKE WALLS

UNSLEEVED PENETRATIONS



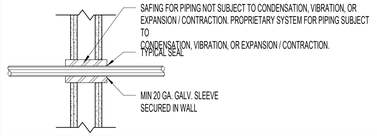
NOTE:
FOR PIPES AND CONDUITS NOT SUBJECT TO MOVEMENT OR CONDENSATION.

FIRE AND/OR SMOKE WALL PENETRATIONS: PLASTER, DRYWALL, CONCRETE, OR MASONRY TYPICAL SEALS AS FOLLOWS:

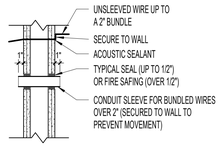
LESS THAN 1/2" - ACOUSTIC CAULK OR DRYWALL JOINT COMPOUND (NO TAPE)

MORE THAN 1/2" - BLOW-OUT PATCH OR PROPRIETARY SYSTEM.

SLEEVED PENETRATIONS

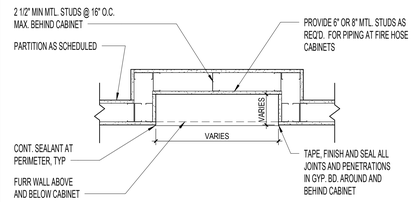


WIRE PENETRATIONS



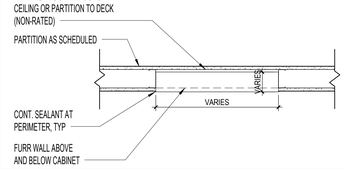
RECESSED METAL WALL CABINETS

RATED PARTITION



NOTE:
5 SIDED ENCLOSURE BEHIND CABINET IS NOT NECESSARY IF RATED WALL IS CONTINUOUS AND ALL PENETRATIONS ARE SEALED TO DECK BEHIND CABINET. THIS DETAIL APPLIES TO ALL CABINETS AND BOXES OVER 16 SQ. INCHES IN SIZE (I.E. FIRE HOSE CABINETS, FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC...)

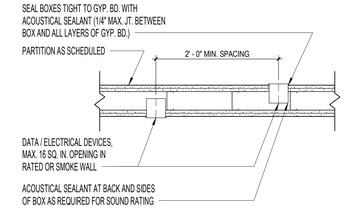
NON-RATED PARTITION



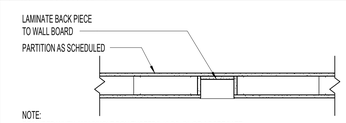
ELECTRICAL BOXES IN RATED PARTITIONS

NOTE:
IN ALL RATED PARTITIONS AND SMOKE PARTITIONS, THE SURFACE AREA OF INDIVIDUAL METALLIC OUTLET OR SWITCH BOXES SHALL NOT EXCEED 16 SQUARE INCHES. THE AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET. BOXES WHICH EXCEED THESE STANDARDS SHALL BE RECESSED AS SHOWN IN "RECESSED METAL WALL CABINET DETAIL. BOXES LOCATED ON OPPOSITE SIDES OF RATED AND / OR SMOKE PARTITIONS SHALL BE SEPARATED BY HORIZONTAL DISTANCE OF 24 INCHES MINIMUM.

ADJACENT ELECTRICAL BOXES



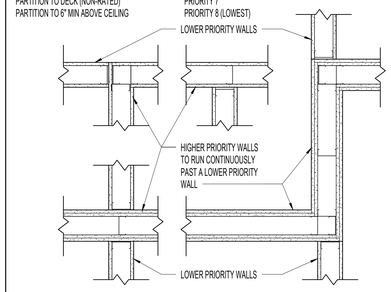
SHALLOW FIVE SIDE BOX DETAIL



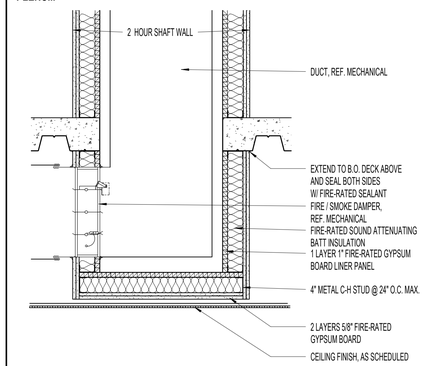
NOTE:
REQUIRED WHEN ANY SINGLE BOX EXCEEDS 16 SQ. IN. OR AGGREGATE OF BOXES EXCEEDS 100 SQ. IN. PER 100 SF. OF WALL AREA

WALL PRIORITY LEGEND

TWO HOUR RATED FIRE AND SMOKE PARTITION	PRIORITY 1 (HIGHEST)
TWO HOUR RATED SHAFT WALL	PRIORITY 2
TWO HOUR RATED PARTITION	PRIORITY 3
ONE HOUR FIRE AND SMOKE PARTITION	PRIORITY 4
ONE HOUR RATED SHAFT WALL	PRIORITY 5
ONE HOUR RATED PARTITION	PRIORITY 6
PARTITION TO DECK (NON-RATED)	PRIORITY 7
PARTITION TO 6" MIN ABOVE CEILING	PRIORITY 8 (LOWEST)

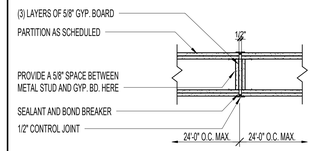


TERMINATION OF SHAFT WALL ABOVE PLENUM

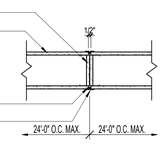


GYP. BD. CONTROL JOINT SCHEDULE

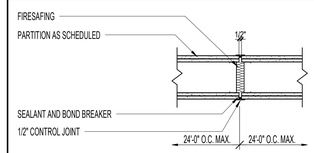
CONTROL JOINT AT TWO-HOUR RATED PARTITION - OPTION 1



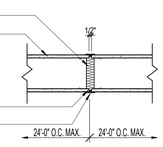
CONTROL JOINT AT ONE-HOUR RATED PARTITION - OPTION 1



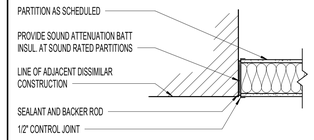
CONTROL JOINT AT TWO-HOUR RATED PARTITION - OPTION 2



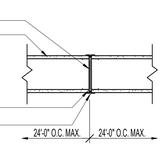
CONTROL JOINT AT ONE-HOUR RATED PARTITION - OPTION 2



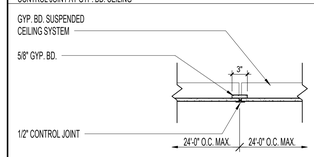
CONTROL JOINT AT INTERSECTION OF PARTITION AND DISSIMILAR CONSTRUCTION



CONTROL JOINT AT NON-RATED PARTITION

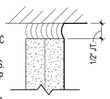


CONTROL JOINT AT GYP. BD. CEILING



SEALANT JOINT SCHEDULE

S01	WALL HEAD (GYP. BD.)	S01	WALL BASE (GYP. BD.)
	PROVIDE ACOUSTIC SEALANT AT NON-RATED PARTITIONS. PROVIDE FIRESTOP SEALANT AT FIRE RATED PARTITIONS.		PROVIDE ACOUSTIC SEALANT AT NON-RATED PARTITIONS. PROVIDE FIRESTOP SEALANT AT FIRE RATED PARTITIONS.





DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

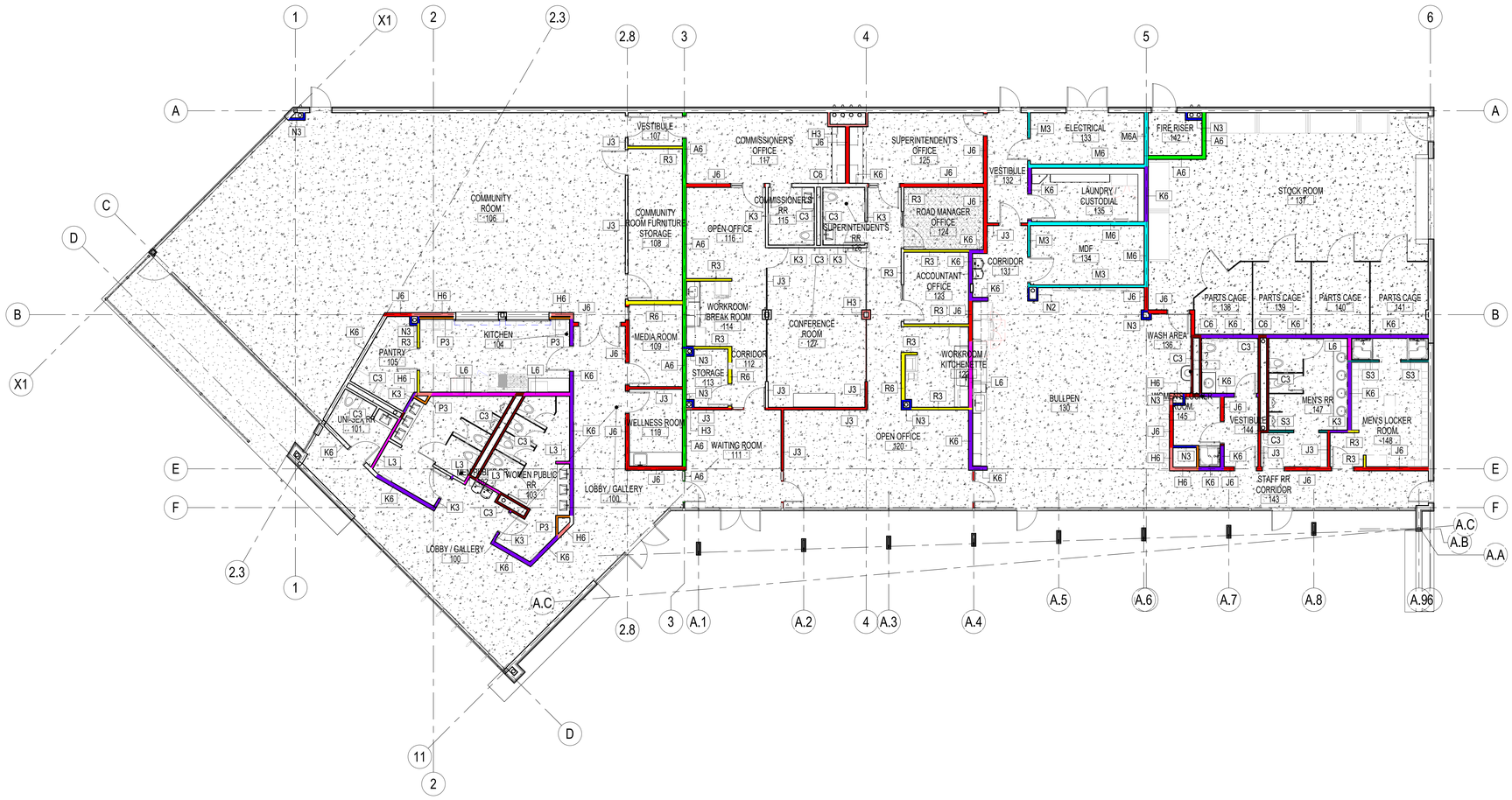
Drawn By:
KR

Checked By:
KR

Sheet Title:
PARTITION DETAILS

Drawing No.
A7.01

5/7/2026 1:47:23 PM



1 **ADMINISTRATION BUILDING WALL PARTITION PLAN**
1/8" = 1'-0"

PLAN NORTH

TRUE NORTH

FLOOR PLAN GENERAL NOTES

1 PARTITION TYPES ARE SHOWN ON A7.00. REFER TO ADDITIONAL FIRE AND SMOKE RATED INFORMATION ON LIFE SAFETY SHEET LS1.01 AND THE LIFE SAFETY REPORT IN THE PROJECT MANUAL.

2 DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. LARGE SCALE DIMENSIONS GOVERN OVER SMALL SCALE. DIMENSIONS SHOWN ON THE FLOOR PLANS ARE FROM CENTERLINE OF COLUMNS TO FACE OF FINISH OF INTERIOR WALLS AND TO FACE OF FINISH OF EXTERIOR WALLS UNLESS INDICATED OTHERWISE ON PLANS. IF DIMENSIONS ARE IN QUESTION, THE CONTACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.

3 ALL ANGLED WALLS ARE AT 45 DEGREE ANGLES, U.N.O.

4 SINKS SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE SINK IS 1'-3" MINIMUM TO THE FACE OF THE ADJACENT FIXED EQUIPMENT, SIDEWALL, MILLWORK, CASEWORK, ETC...

5 FOR FURTHER DIMENSIONS, SEE ENLARGED PLANS, SECTIONS, & ELEVATIONS.

6 CONTRACTOR IS RESPONSIBLE FOR BRACING AND BLOCKING OF WALLS RECEIVING MILLWORK/CASEWORK/CABINETRY, SHELVING, TELEPHONE BOARDS, ETC. ALL WOOD BLOCKING, GROUNDS, ROUGH BUCKS, AND MISCELLANEOUS BLOCKING IS TO BE FIRE-RETARDANT TREATED.

7 CONTRACTOR IS TO NOTIFY ARCHITECT IF FLOOR PENETRATIONS CONFLICT WITH STRUCTURAL ELEMENTS, DUCTWORK, ETC. PRIOR TO PROCEEDING WITH WORK.

8 SEE A7.40 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES, TOILET ACCESSORIES, FIRE ALARM DEVICES, ETC....

9 PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS AND EQUIPMENT ROOMS. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.

10 RECESSED ITEMS (GREATER THAN 16 SQUARE INCHES) IN RATED AND / OR SMOKE WALLS INCLUDING ELECTRICAL PANELS, ELECTRICAL BOXES, MED GAS VALAVE BOXES, FIRE EXTINGUISHER CABINETS, ETC... SHALL BE BACKED WITH 5/8" TYPE 'X' GYPSUM BOARD TO MAINTAIN RATING OF PARITION.

11 CONTRACTOR SHALL SEAL AROUND ALL PIPING, DUCTS, ETC. AND ENSURE THE INTEGRITY OF ALL REQUIRED FIRE AND/OR SMOKE SEPARATIONS IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.

12 PROVIDE SEALANT AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXT WINDOW FRAMES, AMD MILLWORK/CASEWORK/CABINETRY WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE.

13 WHERE MULTIPLE SWITCHES, OUTLET, ETC. OCCUR ADJACENT TO EACH OTHER, GANG THEM AS CLOSELY TOGETHER AS POSSIBLE.

14 TELEPHONES AND COMPUTERS ARE NOT PART OF THIS CONTRACT. EXCEPT FOR THE INSTALLATION OF CONDUITS WITH PULL STRINGS WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS. INSTALLATIONS OF COMPUTER SYSTEMS AND TELEPHONES WILL BE DONE BY OTHERS, THE CONTRACTOR IS EXPECTED TO FULLY COOPERATE, AND ALLOW INSTALLERS ABOVE CEILING AND TO COORDINATE WITH THE OWNER AND TENANT TO FACILITATE ORDERLY INSTALLATION OF THESE SYSTEMS.

15 PATCH ALL HOLES IN FLOOR AND KNOCK DOWN ALL HIGH AREAS AS REQUIRED, PROVIDE SMOOTH, LEVEL CONC. SLAB SURFACE READY TO RECEIVE NEW FINISHES.

16 CONTRACTOR TO COORDINATE LOCATION OF POWER ASSIST BUTTONS, EMERGENCY RELEASE BUTTONS, AND CARD READERS WITH ARCHITECT AND OWNER PRIOR TO CONSTRUCTION.

17 CONTRACTOR TO COORDIANTE LOCATION OF THE KNOX BOX WITH THE FIRE DEPARTMENT PRIOR TO CONSTRUCTION.

18 REFER TO STRUCTURAL DRAWINGS FOR FLOOR SLOPES AND ELEVATIONS.

19 REFER TO SHEETS A7.10 FOR DOOR SCHDEULE AND DETAILS.

20 REFER TO SHEET A7.30 FOR FINISH SELECTION SUMMARY.

FLOOR PLAN LEGEND - PARTITION TYPES

- TYPE A - WALL TO DECK - FIRE RATED- STC 34 ACOUSTIC RATED
- TYPE H - WALL TO DECK - GYP BD ONE SIDE - ACOUSTICAL SEALED
- TYPE J - WALL TO DECK - STC 34 ACOUSTIC RATED
- TYPE K - WALL TO DECK - TILE ONE SIDE - STC 34 ACOUSTIC RATED
- TYPE L - WALL TO DECK - TILE BOTH SIDES - STC 34 ACOUSTIC RATED
- TYPE M - WALL TO DECK - FIRE RATED PLYWOOD ONE SIDE - STC 34 ACOUSTIC RATED - 1 HR FIRE RATED
- TYPE N - WALL 1' ABOVE CEILING - FURRING WALL - GYP BD ONE SIDE
- TYPE P - WALL 1' ABOVE CEILING - FURRING WALL - TILE ONE SIDE
- TYPE R - WALL 1' ABOVE CEILING - GYP BD BOTH SIDES
- TYPE S - WALL 1' ABOVE CEILING - GYP BD ONE SIDE, TILE ONE SIDE
- TYPE T - WALL ABOVE CEILING - TILE BOTH SIDES
- TYPE C - WALL TO DECK - PLUMBING CHASE WALL - FURRING WALL - GYP BD ONE SIDE

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

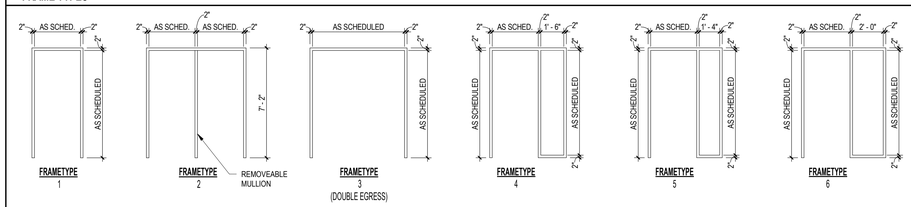
Checked By:
KR

Sheet Title:
ADMINISTRATION BUILDING WALL PARTITION PLAN

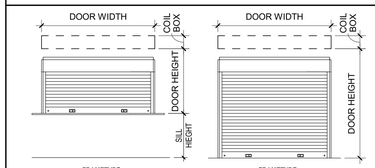
Drawing No.
A7.02

5/7/2026 1:47:28 PM

FRAME TYPES

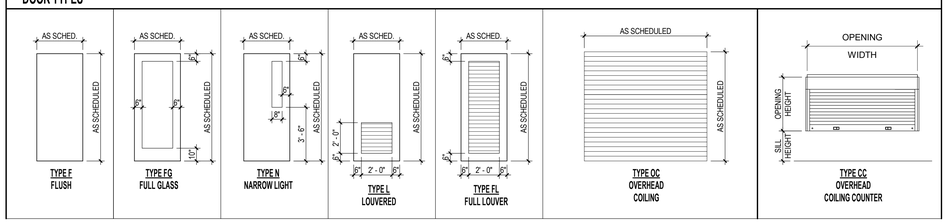


FRAMETYPE 1 | FRAMETYPE 2 | FRAMETYPE 3 (DOUBLE EGRESS) | FRAMETYPE 4 | FRAMETYPE 5 | FRAMETYPE 6



FRAMETYPE 7 | FRAMETYPE 8

DOOR TYPES



DOOR AND FRAME SCHEDULE REMARKS

REMARK	DESCRIPTION
1	PROVIDE 48" LONG ROUND ALUMINUM DOOR PULLS WITH BLACK ANNODIZED FINISH TO MATCH ADJACENT STOREFRONT WALL SYSTEM & DOOR. PROVIDE DOOR CLOSER WITH SAME BLACK ANNODIZED FINISH.
2	PROVIDE 48" LONG ROUND ALUMINUM DOOR PULLS WITH BLACK ANNODIZED FINISH TO MATCH ADJACENT STOREFRONT WALL SYSTEM & DOOR.
3	PROVIDE CARD READER AND ASSOCIATED ELECTRIFIED HARDWARE AND INFASTRUCTURE AT DOOR INDICATED. PROVIDE ELECTRIFIED DOOR HARDWARE (STRIKE, DOOR POSITION SWITCH, RTE PIR SENSOR) CONNECTED TO ACCESS CONTROL CARD READER LOCATED ON NON-SECURED SIDE OF DOOR. CONTRACTOR TO PROVIDE JUNCTION BOX WITH POWER ABOVE DOOR FOR ELECTRIFIED HARDWARE AS SCHEDULED. CONDUIT PROVIDED DOWN WALL TO ABOVE CEILING OR ABOVE DOOR FOR DATA CABLING FOR WALL MOUNTED ACCESS CONTROL DEVICE. ACCESS CONTROLLED CARD READER CABLED BACK TO NEAREST MDF OR IDF ROOM. REFER TO TECHNOLOGY DRAWINGS
4	HOLLOW METAL DOOR FRAMES SHALL BE 18 GA. WITH STEEL STIFFENEDED FRAMES. FIRE RATED AS REQUIRED PER DOOR SCHEDULE
5	OVERHEAD COILING DOORS SHALL BE OF NOM. 22GA CONSTRUCTION, INSULATED PNEL, FULL VERTICAL LIFT, SOLID STEEL SHAFT, THREE INCH TRACKS WITH 48"H X 1/4" STEEL Z-GUARD AND HARDWARE INCLUDING HANDLES AND STEP PLATES, CONTINOUS GALVANIZED ANGLE, PERIMETER WEATHER SEALS, AND ONE HORIZONTAL SLIDING LOCK BOLT AT 4' A.F.F.
6	CONTRACTOR TO PROVIDE PANIC EGRESS HARDWARE ON ALL DOORS OF ELECTRICAL ROOM DOORS
7	PROVIDE NEW DOOR POSITION SWITCH AT NEW FIRE-RATED EMERGENCY EXIT DOOR. DOOR POSITION SWITCH TO BE CABLED BACK TO NEAREST MDF OR IDF ROOM. REFER TO TECH DWGS.
8	CARD READER INSTALLED ON CONFERENCE ROOM 102 SIDE OF DOOR.
9	PROVIDE STANDARD ALUMINUM DOOR PUSH/PULL FROM STOREFRONT WALL SYSTEM MANUFACTURER WITH BLACK ANNODIZED FINISH TO MATCH ADJACENT STOREFRONT SYSTEM AND DOOR. NO LOCKING CYLINDER OR LATCH REQUIRED.
10	NO LOCKING CYLINDER OR LATCH REQUIRED.
11	PROVIDE KEYED HARDWARE WITH DOOR LATCH AND THUMB TURN DEADBOLT LOCK TO MATCH ADJACENT DOOR FINISH
12	PROVIDE REMOTE DOOR ACCESS CONTROL FOR VISITORS TO BE "BUZZED" INTO COMMISSIONER'S OFFICE. PROVIDE DOOR ACCESS CONTROL RELEASE AT COMMISSIONER OPEN OFFICE. REFERTO OWNER FOR EXACT DOOR RELEASE LOCATION. REFER TO TECHNOLOGY DRAWINGS.
13	CONTRACTOR TO PROVIDE PANIC EGRESS HARDWARE ON ALL DOORS OF ELECTRICAL ROOMS
14	ACCESS CONTROL CARD READER FOR DOOR TO BE MOUNTED ON STEEL PEDESTAL LOCATED EXTERIOR OF DOOR. CONTRACTOR TO PROVIDE CONDUIT FOR DATA CABLING UNDER SLAB BACK TO BUILDING. REFER TO TECHNOLOGY DRAWINGS
15	ACCESS CONTROL CARD READER TO BE PROVIDED AT DOOR. CONTRACTOR TO PROVIDE JUNCTION BOX WITH POWER ABOVE DOOR FOR ELECTRIFIED HARDWARE AS SCHEDULED. CONDUIT PROVIDED DOWN WALL TO ABOVE CEILING FOR DATA CABLING FOR WALL MOUNTED ACCESS CONTROL DEVICE. REFER TO TECHNOLOGY DRAWINGS
16	OVERHEAD COILING DOORS SHALL BE OF NOM. 22GA. CONSTRUCTION, INSULATED COILS, POWER OPERATED OPENER, THREE INCH TRACKS WITH 48"H X 1/4" STEEL Z-GUARD AND HARDWARE INCLUDING HANDLES AND STEP PLATES, CONTINUOUS GALVANIZED ANGLE, PERIMETER WEATHER SEALS, AND ONE HORIZONTAL SLIDING LOCK BOLT AT 4' AFF

DOOR AND FRAME SCHEDULE (ADMINISTRATION BLDG-EXTERIOR)

NUMBER	ROOM NAME	DOOR SIZE LEAF QTY	WIDTH	HGT	TYPE	MAT	FIN	GL	HARDWARE SET	HARDWARE FUNCTION	FRAME RATING	TYPE	MAT	FIN	SIDELITE GL	FRAME DETAIL HEAD	JAMB	THRESHOLD	ELECTRICAL HOLD OPEN	POWER OPERATOR	CARD READER	REMARKS
EX100	LOBBY / GALLERY	2	6' - 0"	8' - 0"	FG	AL	BLACK ANNODIZED	GL-1			-	–	AL	BLACK ANNODIZED	GL-1				-	X	X	1,3
EX108B	COMMUNITY ROOM	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	-	
EX106C	COMMUNITY ROOM	1	3' - 6"	8' - 0"	SF	ALUM	BLACK ANNODIZED	GL-1			-	01	AL	BLACK ANNODIZED	GL-1				-	-	-	
EX111	WAITING ROOM	2	6' - 0"	8' - 0"	FG	AL	BLACK ANNODIZED	GL-1			-	–	AL	BLACK ANNODIZED	GL-1				-	X	X	1,3
EX130	BULLPEN	1	3' - 0"	8' - 0"	SF	ALUM	BLACK ANNODIZED	GL-1			-	01	AL	BLACK ANNODIZED	GL-1				-	-	X	1,3
EX132	VESTIBULE	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	X	3
EX133	ELECTRICAL	2	6' - 0"	7' - 0"	F	HM	BLACK	-			-	02	HM	BLACK	-				-	-	-	11
EX137	STOCK ROOM	1	3' - 6"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	X	3
EX142	FIRE RISER	1	3' - 6"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	X	3
EX143	STAFF RR CORRIDOR	1	3' - 0"	8' - 0"	SF	ALUM	BLACK ANNODIZED	GL-1			-	01	AL	BLACK ANNODIZED	GL-1				-	-	X	11
EX149	STAFF RR CORRIDOR	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	X	3

DOOR AND FRAME SCHEDULE (ADMINISTRATION BLDG-INTERIOR)

NUMBER	ROOM NAME	DOOR SIZE LEAF QTY	WIDTH	HGT	TYPE	MAT	FIN	GL	HARDWARE SET	HARDWARE FUNCTION	FRAME RATING	TYPE	MAT	FIN	SIDELITE GL	FRAME DETAIL HEAD	JAMB	THRESHOLD	ELECTRICAL HOLD OPEN	POWER OPERATOR	CARD READER	REMARKS
101	UNI-SEX RR	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
102	MEN PUBLIC RR	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
103	WOMEN PUBLIC RR	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
104	KITCHEN	1	3' - 6"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	X	3
105	PANTRY	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	-	
106	LOBBY / GALLERY	2	6' - 0"	7' - 0"	FG	WD	WD	GL-2			-	02A	HM	BLACK	-				-	X	-	
107	VESTIBULE	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	X	3
107A	VESTIBULE	1	3' - 0"	7' - 0"	F	WD	WD	-			45 MINS	01	HM	BLACK	-				-	-	X	3
108	COMMUNITY ROOM FURNITURE STORAGE	1	3' - 6"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
108A	COMMUNITY ROOM FURNITURE STORAGE	1	3' - 6"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
109	MEDIA ROOM	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	X	3
110	WELLNESS ROOM	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	X	3
111A	WAITING ROOM	1	3' - 0"	8' - 0"	SF	ALUM	BLACK ANNODIZED	GL-4			45 MINS	01	AL	BLACK ANNODIZED	GL-4				-	-	X	1,3
111B	OPEN OFFICE	1	3' - 0"	8' - 0"	SF	ALUM	BLACK ANNODIZED	GL-2			-	01	AL	BLACK ANNODIZED	-				-	-	-	
112	CORRIDOR	1	3' - 0"	8' - 0"	SF	ALUM	BLACK ANNODIZED	GL-2			-	01	AL	BLACK ANNODIZED	GL-2				-	-	X	1,3,12
113	STORAGE	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
115	COMMISSIONER'S RR	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
117	OPEN OFFICE	1	3' - 0"	7' - 0"	F	WD	WD	-			-	05C	HM	BLACK	GL-2				-	-	-	
122	WORKROOM / KITCHENETTE	1	3' - 6"	6' - 8"	F	HM	-	-			-	01	HM	BLACK	-				-	-	-	
123	ACCOUNTANT OFFICE	1	3' - 0"	7' - 0"	F	WD	WD	-			-	05C	HM	BLACK	GL-2				-	-	-	
124	ROAD MANAGER OFFICE	1	3' - 0"	7' - 0"	F	WD	WD	-			-	05C	HM	BLACK	GL-2				-	-	-	
125	CORRIDOR	1	3' - 0"	7' - 0"	F	WD	WD	-			-	05C	HM	BLACK	GL-2				-	-	-	
125A	SUPERINTENDENT'S OFFICE	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
126	SUPERINTENDENT'S RR	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
127A	CONFERENCE ROOM	1	3' - 0"	8' - 9 1/2"	SF	ALUM	BLACK ANNODIZED	GL-3			-	01	AL	BLACK ANNODIZED	GL-3				-	-	X	1,3
127B	CONFERENCE ROOM	1	3' - 0"	8' - 9 1/2"	SF	ALUM						01										
130	BULLPEN	1	3' - 0"	8' - 0"	SF	ALUM						01										
132A	VESTIBULE	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
133	ELECTRICAL	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	-	
134	LAUNDRY / CUSTODIAL	1	3' - 6"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
135	MDF	1	3' - 6"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
136	WASH AREA	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
144	VESTIBULE	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
145	WOMEN'S LOCKER ROOM	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
146	WOMEN'S RR	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
147	MEN'S RR	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
148	MEN'S LOCKER ROOM	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	

DOOR AND FRAME SCHEDULE (ADMINISTRATION BLDG-OVERHEAD)

NUMBER	ROOM NAME	DOOR SIZE LEAF QTY	WIDTH	HGT	TYPE	MAT	FIN	GL	HARDWARE SET	HARDWARE FUNCTION	FRAME RATING	TYPE	MAT	FIN	FRAME DETAIL HEAD	JAMB	THRESHOLD	ELECTRICAL MOTOR OPENER	CARD READER	REMARKS
OH137	STOCK ROOM		12' - 0"	14' - 0"	OC	AL	ANNODIZED	-			-	OC1	AL	ANNODIZED				X		
OH189	KITCHEN		6' - 4"	8' - 2"	CC	AL	ANNODIZED	-			-	OC2	AL	ANNODIZED						
OH190	KITCHEN		6' - 4"	8' - 2"	CC	AL	ANNODIZED	-			-	OC2	AL	ANNODIZED						

DOOR AND FRAME SCHEDULE - ROOF HATCH

NUMBER	ROOM NAME	HATCH SIZE WIDTH	Length	TYPE	MAT	FIN	GL	HARDWARE SET	HARDWARE FUNCTION	FRAME RATING	TYPE	MAT	FIN	DETAIL HEAD	JAMB	THRESHOLD	ELECTRICAL ALARM (DOOR CONTACTS)	POWER OPERATOR	CARD READER	FIRE ALARM	REMARKS
RH1		4' - 0"	4' - 0"																		

DOOR SCHEDULE GENERAL NOTES

01. REFER TO PROJECT MANUAL SECTION 087100 FOR DOOR HARDWARE.
02. REFER TO PROJECT MANUAL SECTION 088000 FOR GLAZING.
03. CONTRACTOR TO USE THE ARCHITECTS DOOR TYPE PLAN DESIGNATION NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWINGS SCHEDULE SUBMITTALS.
04. CONTRACTOR TO VERIFY EXISTING OPENING DIMENSIONS WHEN INSTALLING A NEW DOOR WITHIN AN EXISTING FRAME OR OPENING.
05. REFER TO DOOR SCHEDULE FOR NEW DOOR AND FRAME DIMENSIONS.
06. REFER TO DOOR SCHEDULE FOR DOOR AND FRAME FINISHES.
07. COORDINATE GAP AT INTERIOR DOOR BOTTOM WITH FLOORING MATERIAL. DOOR UNDERCUT NOT TO EXCEED 3/4".
08. DOOR SCHEDULES ENCOMPASS ALL PHASES OF CONSTRUCTION. CONTRACTOR TO REFERENCE DOORS ASSOCIATED WITH CURRENT PHASE OF WORK.
09. CONTRACTOR TO REMOVE ALL EXISTING ROOM AND/OR DOOR SIGNAGE ATTACHED TO THE DOOR OR FRAME.
10. CONTRACTOR TO REMOVE ALL ABANDONED OR BROKEN HARDWARE FROM DOOR AND/OR FRAME
11. CONTRACTOR SHALL FILL ANY CUTS, GOUGES AND ANY IMPERFECTIONS BEFORE LIGHTLY SANDING EXISTING DOORS AND FRAME TO REMAIN THAT ARE DESIGNATED FOR NEW PAINT FINISHES
12. CONTRACTOR SHALL PAINT EXISTING DOORS AND FRAMES TO REMAIN AFTER NEW HARDWARE IS INSTALLED
13. CONTRACTOR SHALL REMOVE ALL EXISTING METAL FABRICATIONS FOR ALTERNATIVE DOOR LOCKS FROM EXISTING DOOR AND FRAMES. PROVIDE SMOOTH PAINTABLE FINISH AT ANY REMOVED METAL FABRICATIONS

ABBREVIATIONS

AL - ALUMINUM
ANOD - ANODIZED
GL - GLASS
HM - HOLLOW METAL
MTL - METAL
PL - PLASTIC LAMINATE
PNT - PAINT
WD - SOLID CORE WOOD

DIVISION 08 - GLAZING TYPE LEGEND

GL-1
088000.1 - GLAZING - GL-1
TYPE: EXTERIOR STOREFRONT GLASS
MATERIAL: 1" TEMPERED INSULATED VISION GLASS
COLOR TINT: TO BE DETERMINED BY ARCHITECT
MINIMUM VALUES - VLT: 50% U-FACTOR: 0.29 SHGC: 0.25

GL-2
088000.2 - GLAZING - GL-2
TYPE: INTERIOR STOREFRONT GLASS
MATERIAL: 1/4" CLEAR TEMPERED FLOAT GLASS
COLOR TINT: TO BE DETERMINED BY ARCHITECT
MINIMUM VALUES - N/A

GL-3
088000.2 - GLAZING - GL-3
TYPE: INTERIOR STOREFRONT GLASS
MATERIAL: 1/4" CLEAR TEMPERED FLOAT GLASS WITH TRANSLUCENT FILM
(REFER TO GLAZING ELEVATION & INTERIOR ELEVATION)
(APPLY TO OFFICE/ROOM SIDE OF GLASS)
COLOR TINT: CLEAR
TRANSLUCENT FILM: REFER TO FINISH LIST
MINIMUM VALUES - N/A

GL-4
088000.2 - GLAZING - GL-4
TYPE: FIRE RATED DOOR VISION GLASS
MATERIAL: 5/16" CLEAR CERAMIC FIRE RATED GLAZING
COLOR TINT: CLEAR
MINIMUM VALUES - 90 MIN FIRE RATED GLAZING

5/7/2026 1:47:30 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

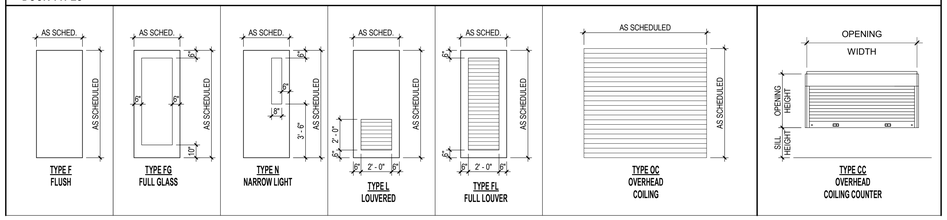
Drawn By:
KR

Checked By:
KR

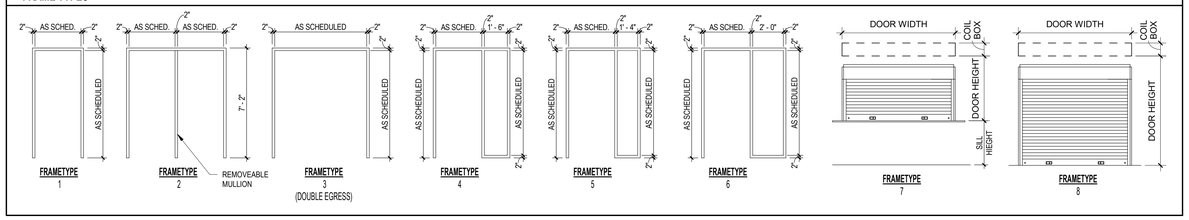
Sheet Title:
ADMINISTRATION DOOR SCHEDULE, DOOR TYPES, AND DETAILS

Drawing No.
A7.10

DOOR TYPES



FRAME TYPES



DOOR AND FRAME SCHEDULE (MECHANIC SHOP-EXTERIOR)

NUMBER	ROOM NAME	DOOR SIZE LEAF QTY	DOOR SIZE WIDTH	DOOR SIZE HGT	DOOR TYPE	DOOR MAT	DOOR FIN	DOOR GL	HARDWARE HARDWARE SET	HARDWARE HARDWARE FUNCTION	FRAME RATING	FRAME TYPE	FRAME MAT	FRAME FIN	FRAME SIDELITE GL	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL THRESHOLD	ELECTRICAL HOLD OPEN	ELECTRICAL POWER OPERATOR	ELECTRICAL CARD READER	REMARKS
EX200	CORRIDOR	2	6' - 0"	7' - 0"	F	HM	BLACK	-			-	02	HM	BLACK	-				-	-	X	3
EX202	FIRE RISER	1	3' - 6"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	-	
EX208	CORRIDOR	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	-	
EX212A	MECHANIC SHOP	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	X	3
EX212B	MECHANIC SHOP	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	X	3
EX212C	MECHANIC SHOP	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	X	3

DOOR AND FRAME SCHEDULE (MECHANIC SHOP-INTERIOR)

NUMBER	ROOM NAME	DOOR SIZE LEAF QTY	DOOR SIZE WIDTH	DOOR SIZE HGT	DOOR TYPE	DOOR MAT	DOOR FIN	DOOR GL	HARDWARE HARDWARE SET	HARDWARE HARDWARE FUNCTION	FRAME RATING	FRAME TYPE	FRAME MAT	FRAME FIN	FRAME SIDELITE GL	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL THRESHOLD	ELECTRICAL HOLD OPEN	ELECTRICAL POWER OPERATOR	ELECTRICAL CARD READER	REMARKS
201	LUBRICATE STORAGE	2	6' - 0"	7' - 0"	F	HM	BLACK	-			-	02	HM	BLACK	-				-	-	-	
204	TOOL ROOM	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	-	
205	MECHANIC SHOP	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	-	
206	OFFICE	1	3' - 0"	7' - 0"	F	WD	BLACK	-			-	05C	HM	BLACK	GL-2				-	-	-	
207	CORRIDOR	1	3' - 0"	7' - 0"	F	WD	BLACK	-			-	01	HM	BLACK	-				-	-	-	
208	MECHANIC SHOP	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	-	
209	CORRIDOR	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
210	CORRIDOR	1	3' - 0"	7' - 0"	F	WD	WD	-			-	01	HM	BLACK	-				-	-	-	
211	SPARE TIRES	2	6' - 0"	7' - 0"	F	HM	BLACK	-			-	02	HM	BLACK	-				-	-	-	
221	MEZZANINE STORAGE	2	6' - 0"	7' - 0"	F	HM	BLACK	-			-	02	HM	BLACK	-				-	-	-	
222	MEZZANINE STORAGE	2	6' - 0"	7' - 0"	F	HM	BLACK	-			-	02	HM	BLACK	-				-	-	-	

DOOR AND FRAME SCHEDULE (MECHANIC SHOP-OVERHEAD)

NUMBER	ROOM NAME	DOOR SIZE LEAF QTY	DOOR SIZE WIDTH	DOOR SIZE HGT	DOOR TYPE	DOOR MAT	DOOR FIN	DOOR GL	HARDWARE HARDWARE SET	HARDWARE HARDWARE FUNCTION	FRAME RATING	FRAME TYPE	FRAME MAT	FRAME FIN	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL THRESHOLD	ELECTRICAL MOTOR OPENER	ELECTRICAL CARD READER	REMARKS
OH201	LUBRICATE STORAGE		5' - 0"	7' - 2"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH212A	MECHANIC SHOP		16' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH212B	MECHANIC SHOP		16' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH212C	MECHANIC SHOP		16' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH212D	MECHANIC SHOP		16' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH212E	MECHANIC SHOP		16' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH212F	MECHANIC SHOP		16' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH212G	MECHANIC SHOP		16' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH212H	MECHANIC SHOP		16' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH220	MEZZANINE STORAGE		6' - 0"	6' - 8"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		

DOOR SCHEDULE GENERAL NOTES

01. REFER TO PROJECT MANUAL SECTION 087100 FOR DOOR HARDWARE.
02. REFER TO PROJECT MANUAL SECTION 088000 FOR GLAZING.
03. CONTRACTOR TO USE THE ARCHITECTS DOOR TYPE PLAN DESIGNATION NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWINGS SCHEDULE SUBMITTALS.
04. CONTRACTOR TO VERIFY EXISTING OPENING DIMENSIONS WHEN INSTALLING A NEW DOOR WITHIN AN EXISTING FRAME OR OPENING.
05. REFER TO DOOR SCHEDULE FOR NEW DOOR AND FRAME DIMENSIONS.
06. REFER TO DOOR SCHEDULE FOR DOOR AND FRAME FINISHES.
07. COORDINATE GAP AT INTERIOR DOOR BOTTOM WITH FLOORING MATERIAL. DOOR UNDERCUT NOT TO EXCEED 3/4".
08. DOOR SCHEDULES ENCOMPASS ALL PHASES OF CONSTRUCTION. CONTRACTOR TO REFERENCE DOORS ASSOCIATED WITH CURRENT PHASE OF WORK.
09. CONTRACTOR TO REMOVE ALL EXISTING ROOM AND/OR DOOR SIGNAGE ATTACHED TO THE DOOR OR FRAME.
10. CONTRACTOR TO REMOVE ALL ABANDONED OR BROKEN HARDWARE FROM DOOR AND/OR FRAME
11. CONTRACTOR SHALL FILL ANY CUTS, GOUGES AND ANY IMPERFECTIONS BEFORE LIGHTLY SANDING EXISTING DOORS AND FRAME TO REMAIN THAT ARE DESIGNATED FOR NEW PAINT FINISHES
12. CONTRACTOR SHALL PAINT EXISTING DOORS AND FRAMES TO REMAIN AFTER NEW HARDWARE IS INSTALLED
13. CONTRACTOR SHALL REMOVE ALL EXISTING METAL FABRICATIONS FOR ALTERNATIVE DOOR LOCKS FROM EXISTING DOOR AND FRAMES. PROVIDE SMOOTH PAINTABLE FINISH AT ANY REMOVED METAL FABRICATIONS

ABBREVIATIONS

AL - ALUMINUM
ANOD - ANODIZED
GL - GLASS
HM - HOLLOW METAL
MTL - METAL
PL - PLASTIC LAMINATE
PNT - PAINT
WD - SOLID CORE WOOD

DIVISION 08 - GLAZING TYPE LEGEND

GL-1

088000.1 - GLAZING - GL-1
TYPE: EXTERIOR STOREFRONT GLASS
MATERIAL: 1" TEMPERED INSULATED VISION GLASS
COLOR TINT: TO BE DETERMINED BY ARCHITECT
MINIMUM VALUES - VLT: 50% U-FACTOR: 0.29 SHGC: 0.25

GL-2

088000.2 - GLAZING - GL-2
TYPE: INTERIOR STOREFRONT GLASS
MATERIAL: 1/4" CLEAR TEMPERED FLOAT GLASS
COLOR TINT: TO BE DETERMINED BY ARCHITECT
MINIMUM VALUES - N/A

GL-3

088000.2 - GLAZING - GL-3
TYPE: INTERIOR STOREFRONT GLASS
MATERIAL: 1/4" CLEAR TEMPERED FLOAT GLASS WITH TRANSLUCENT FILM
(REFER TO GLAZING ELEVATION & INTERIOR ELEVATION)
(APPLY TO OFFICE/ROOM SIDE OF GLASS)
COLOR TINT: CLEAR
TRANSLUCENT FILM: REFER TO FINISH LIST
MINIMUM VALUES - N/A

GL-4

088000.2 - GLAZING - GL-4
TYPE: FIRE RATED DOOR VISION GLASS
MATERIAL: 5/16" CLEAR CERAMIC FIRE RATED GLAZING
COLOR TINT: CLEAR
MINIMUM VALUES - 90 MIN FIRE RATED GLAZING

DOOR AND FRAME SCHEDULE REMARKS

REMARK	DESCRIPTION
1	PROVIDE 48" LONG ROUND ALUMINUM DOOR PULLS WITH BLACK ANNODIZED FINISH TO MATCH ADJACENT STOREFRONT WALL SYSTEM & DOOR. PROVIDE DOOR CLOSER WITH SAME BLACK ANNODIZED FINISH.
2	PROVIDE 48" LONG ROUND ALUMINUM DOOR PULLS WITH BLACK ANNODIZED FINISH TO MATCH ADJACENT STOREFRONT WALL SYSTEM & DOOR.
3	PROVIDE CARD READER AND ASSOCIATED ELECTRIFIED HARDWARE AND INFASTRUCTURE AT DOOR INDICATED. PROVIDE ELECTRIFIED DOOR HARDWARE (STRIKE, DOOR POSITION SWITCH, RTE PIR SENSOR) CONNECTED TO ACCESS CONTROL CARD READER LOCATED ON NON-SECURED SIDE OF DOOR. CONTRACTOR TO PROVIDE JUNCTION BOX WITH POWER ABOVE DOOR FOR ELECTRIFIED HARDWARE AS SCHEDULED. CONDUIT PROVIDED DOWN WALL TO ABOVE CEILING OR ABOVE DOOR FOR DATA CABLING FOR WALL MOUNTED ACCESS CONTROL DEVICE. ACCESS CONTROLLED CARD READER CABLED BACK TO NEAREST MDF OR IDF ROOM. REFER TO TECHNOLOGY DRAWINGS
4	HOLLOW METAL DOOR FRAMES SHALL BE 18 GA. WITH STEEL STIFFENEDED FRAMES. FIRE RATED AS REQUIRED PER DOOR SCHEDULE
5	OVERHEAD COILING DOORS SHALL BE OF NOM. 22GA CONSTRUCTION, INSULATED PNEL, FULL VERTICAL LIFT, SOLID STEEL SHAFT, THREE INCH TRACKS WITH 48"H X 1/4" STEEL Z-GUARD AND HARDWARE INCLUDING HANDLES AND STEP PLATES, CONTINOUS GALVANIZED ANGLE, PERIMETER WEATHER SEALS, AND ONE HORIZONTAL SLIDING LOCK BOLT AT 4' A.F.F.
6	CONTRACTOR TO PROVIDE PANIC EGRESS HARDWARE ON ALL DOORS OF ELECTRICAL ROOM DOORS
7	PROVIDE NEW DOOR POSITION SWITCH AT NEW FIRE-RATED EMERGENCY EXIT DOOR. DOOR POSITION SWITCH TO BE CABLED BACK TO NEAREST MDF OR IDF ROOM. REFER TO TECH DWGS.
8	CARD READER INSTALLED ON CONFERENCE ROOM 102 SIDE OF DOOR.
9	PROVIDE STANDARD ALUMINUM DOOR PUSH/PULL FROM STOREFRONT WALL SYSTEM MANUFACTURER WITH BLACK ANNODIZED FINISH TO MATCH ADJACENT STOREFRONT SYSTEM AND DOOR. NO LOCKING CYLINDER OR LATCH REQUIRED.
10	NO LOCKING CYLINDER OR LATCH REQUIRED.
11	PROVIDE KEYED HARDWARE WITH DOOR LATCH AND THUMB TURN DEADBOLT LOCK TO MATCH ADJACENT DOOR FINISH
12	PROVIDE REMOTE DOOR ACCESS CONTROL FOR VISITORS TO BE "BUZZED" INTO COMMISSIONER'S OFFICE. PROVIDE DOOR ACCESS CONTROL RELEASE AT COMMISSIONER OPEN OFFICE. REFERTO OWNER FOR EXACT DOOR RELEASE LOCATION. REFER TO TECHNOLOGY DRAWINGS.
13	CONTRACTOR TO PROVIDE PANIC EGRESS HARDWARE ON ALL DOORS OF ELECTRICAL ROOMS
14	ACCESS CONTROL CARD READER FOR DOOR TO BE MOUNTED ON STEEL PEDESTAL LOCATED EXTERIOR OF DOOR. CONTRACTOR TO PROVIDE CONDUIT FOR DATA CABLING UNDER SLAB BACK TO BUILDING. REFER TO TECHNOLOGY DRAWINGS
15	ACCESS CONTROL CARD READER TO BE PROVIDED AT DOOR. CONTRACTOR TO PROVIDE JUNCTION BOX WITH POWER ABOVE DOOR FOR ELECTRIFIED HARDWARE AS SCHEDULED. CONDUIT PROVIDED DOWN WALL TO ABOVE CEILING FOR DATA CABLING FOR WALL MOUNTED ACCESS CONTROL DEVICE. REFER TO TECHNOLOGY DRAWINGS
16	OVERHEAD COILING DOORS SHALL BE OF NOM. 22GA. CONSTRUCTION, INSULATED COILS, POWER OPERATED OPENER, THREE INCH TRACKS WITH 48"H X 1/4" STEEL Z-GUARD AND HARDWARE INCLUDING HANDLES AND STEP PLATES, CONTINUOUS GALVANIZED ANGLE, PERIMETER WEATHER SEALS, AND ONE HORIZONTAL SLIDING LOCK BOLT AT 4' AFF

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

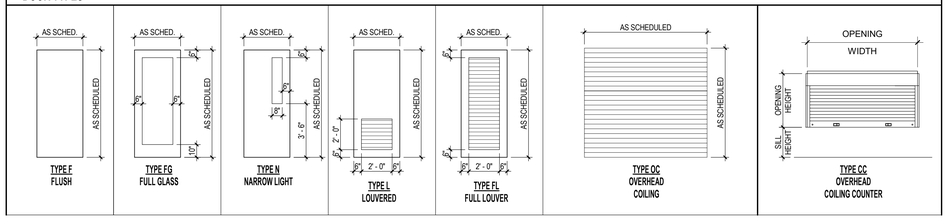
Checked By:
KR

Sheet Title:
MECHANIC SHOP DOOR SCHEDULE, DOOR TYPES, AND DETAILS

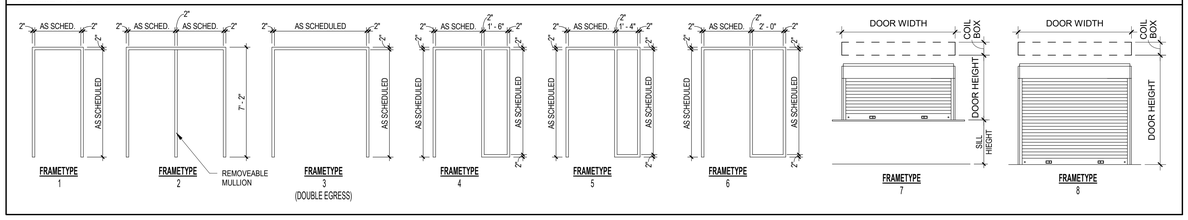
Drawing No.
A7.11

5/7/2026 1:47:32 PM

DOOR TYPES



FRAME TYPES



DOOR AND FRAME SCHEDULE (VEHICLE STORAGE-EXTERIOR)

NUMBER	ROOM NAME	DOOR							HARDWARE		RATING	FRAME				FRAME DETAIL			ELECTRICAL			REMARKS
		SIZE																				
		LEAF QTY	WIDTH	HGT	TYPE	MAT	FIN	GL	HARDWARE SET	HARDWARE FUNCTION		TYPE	MAT	FIN	SIDELITE GL	HEAD	JAMB	THRESHOLD	HOLD OPEN	POWER OPERATOR	CARD READER	
EX306	OPEN LARGE BAY	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	X	
EX311	OPEN BAY	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	X	
EX312	TRUCK WASH STATION	1	3' - 0"	7' - 0"	F	HM	BLACK	-			-	01	HM	BLACK	-				-	-	X	
EX313	TRUCK WASH STATION	2	6' - 0"	7' - 0"	F	HM	BLACK	-			-	02	HM	BLACK	-				-	-	-	
EX314	TRUCK WASH STATION	2	6' - 0"	7' - 0"	F	HM	BLACK	-			-	02	HM	BLACK	-				-	-	-	
EX315	TRUCK WASH STATION	2	6' - 0"	7' - 0"	L	HM	BLACK	-			-	02A	HM	BLACK	-				-	-	-	
EX316	TRUCK WASH STATION	2	6' - 0"	7' - 0"	F	HM	BLACK	-			-	02	HM	BLACK	-				-	-	-	

DOOR AND FRAME SCHEDULE (VEHICLE STORAGE-OVERHEAD)

NUMBER	ROOM NAME	DOOR							HARDWARE		RATING	FRAME			FRAME DETAIL			MOTOR OPENER	ELECTRICAL CARD READER	REMARKS
		SIZE																		
		LEAF QTY	WIDTH	HGT	TYPE	MAT	FIN	GL	HARDWARE SET	HARDWARE FUNCTION		TYPE	MAT	FIN	HEAD	JAMB	THRESHOLD			
OH300	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH301	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH302	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH303	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH304	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH305	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH306	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH307	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH308	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH309	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH310	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		
OH311	SECURED BAY		9' - 0"	18' - 0"	OC	AL	BLACK ANNODIZED	-				OC1	AL	BLACK ANNODIZED				X		

DOOR AND FRAME SCHEDULE REMARKS

REMARK	DESCRIPTION
1	PROVIDE 48" LONG ROUND ALUMINUM DOOR PULLS WITH BLACK ANNODIZED FINISH TO MATCH ADJACENT STOREFRONT WALL SYSTEM & DOOR. PROVIDE DOOR CLOSER WITH SAME BLACK ANNODIZED FINISH.
2	PROVIDE 48" LONG ROUND ALUMINUM DOOR PULLS WITH BLACK ANNODIZED FINISH TO MATCH ADJACENT STOREFRONT WALL SYSTEM & DOOR.
3	PROVIDE CARD READER AND ASSOCIATED ELECTRIFIED HARDWARE AND INFASTRUCTURE AT DOOR INDICATED. PROVIDE ELECTRIFIED DOOR HARDWARE (STRIKE, DOOR POSITION SWITCH, RTE PIR SENSOR) CONNECTED TO ACCESS CONTROL CARD READER LOCATED ON NON-SECURED SIDE OF DOOR. CONTRACTOR TO PROVIDE JUNCTION BOX WITH POWER ABOVE DOOR FOR ELECTRIFIED HARDWARE AS SCHEDULED. CONDUIT PROVIDED DOWN WALL TO ABOVE CEILING OR ABOVE DOOR FOR DATA CABLING FOR WALL MOUNTED ACCESS CONTROL DEVICE. ACCESS CONTROLLED CARD READER CABLED BACK TO NEAREST MDF OR IDF ROOM. REFER TO TECHNOLOGY DRAWINGS
4	HOLLOW METAL DOOR FRAMES SHALL BE 18 GA. WITH STEEL STIFFENEDED FRAMES. FIRE RATED AS REQUIRED PER DOOR SCHEDULE
5	OVERHEAD COILING DOORS SHALL BE OF NOM. 22GA CONSTRUCTION, INSULATED PNEL, FULL VERTICAL LIFT, SOLID STEEL SHAFT, THREE INCH TRACKS WITH 48"H X 1/4" STEEL Z-GUARD AND HARDWARE INCLUDING HANDLES AND STEP PLATES, CONTINOUS GALVANIZED ANGLE, PERIMETER WEATHER SEALS, AND ONE HORIZONTAL SLIDING LOCK BOLT AT 4' A.F.F.
6	CONTRACTOR TO PROVIDE PANIC EGRESS HARDWARE ON ALL DOORS OF ELECTRICAL ROOM DOORS
7	PROVIDE NEW DOOR POSITION SWITCH AT NEW FIRE-RATED EMERGENCY EXIT DOOR. DOOR POSITION SWITCH TO BE CABLED BACK TO NEAREST MDF OR IDF ROOM. REFER TO TECH DWGS.
8	CARD READER INSTALLED ON CONFERENCE ROOM 102 SIDE OF DOOR.
9	PROVIDE STANDARD ALUMINUM DOOR PUSH/PULL FROM STOREFRONT WALL SYSTEM MANUFACTURER WITH BLACK ANNODIZED FINISH TO MATCH ADJACENT STOREFRONT SYSTEM AND DOOR. NO LOCKING CYLINDER OR LATCH REQUIRED.
10	NO LOCKING CYLINDER OR LATCH REQUIRED.
11	PROVIDE KEYED HARDWARE WITH DOOR LATCH AND THUMB TURN DEADBOLT LOCK TO MATCH ADJACENT DOOR FINISH
12	PROVIDE REMOTE DOOR ACCESS CONTROL FOR VISITORS TO BE "BUZZED" INTO COMMISSIONER'S OFFICE. PROVIDE DOOR ACCESS CONTROL RELEASE AT COMMISSIONER OPEN OFFICE. REFERTO OWNER FOR EXACT DOOR RELEASE LOCATION. REFER TO TECHNOLOGY DRAWINGS.
13	CONTRACTOR TO PROVIDE PANIC EGRESS HARDWARE ON ALL DOORS OF ELECTRICAL ROOMS
14	ACCESS CONTROL CARD READER FOR DOOR TO BE MOUNTED ON STEEL PEDESTAL LOCATED EXTERIOR OF DOOR. CONTRACTOR TO PROVIDE CONDUIT FOR DATA CABLING UNDER SLAB BACK TO BUILDING. REFER TO TECHNOLOGY DRAWINGS
15	ACCESS CONTROL CARD READER TO BE PROVIDED AT DOOR. CONTRACTOR TO PROVIDE JUNCTION BOX WITH POWER ABOVE DOOR FOR ELECTRIFIED HARDWARE AS SCHEDULED. CONDUIT PROVIDED DOWN WALL TO ABOVE CEILING FOR DATA CABLING FOR WALL MOUNTED ACCESS CONTROL DEVICE. REFER TO TECHNOLOGY DRAWINGS
16	OVERHEAD COILING DOORS SHALL BE OF NOM. 22GA. CONSTRUCTION, INSULATED COILS, POWER OPERATED OPENER, THREE INCH TRACKS WITH 48"H X 1/4" STEEL Z-GUARD AND HARDWARE INCLUDING HANDLES AND STEP PLATES, CONTINUOUS GALVANIZED ANGLE, PERIMETER WEATHER SEALS, AND ONE HORIZONTAL SLIDING LOCK BOLT AT 4' AFF

DOOR SCHEDULE GENERAL NOTES

01. REFER TO PROJECT MANUAL SECTION 087100 FOR DOOR HARDWARE.
02. REFER TO PROJECT MANUAL SECTION 088000 FOR GLAZING.
03. CONTRACTOR TO USE THE ARCHITECTS DOOR TYPE PLAN DESIGNATION NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWINGS SCHEDULE SUBMITTALS.
04. CONTRACTOR TO VERIFY EXISTING OPENING DIMENSIONS WHEN INSTALLING A NEW DOOR WITHIN AN EXISTING FRAME OR OPENING.
05. REFER TO DOOR SCHEDULE FOR NEW DOOR AND FRAME DIMENSIONS.
06. REFER TO DOOR SCHEDULE FOR DOOR AND FRAME FINISHES.
07. COORDINATE GAP AT INTERIOR DOOR BOTTOM WITH FLOORING MATERIAL. DOOR UNDERCUT NOT TO EXCEED 3/4".
08. DOOR SCHEDULES ENCOMPASS ALL PHASES OF CONSTRUCTION. CONTRACTOR TO REFERENCE DOORS ASSOCIATED WITH CURRENT PHASE OF WORK.
09. CONTRACTOR TO REMOVE ALL EXISTING ROOM AND/OR DOOR SIGNAGE ATTACHED TO THE DOOR OR FRAME.
10. CONTRACTOR TO REMOVE ALL ABANDONED OR BROKEN HARDWARE FROM DOOR AND/OR FRAME
11. CONTRACTOR SHALL FILL ANY CUTS, GOUGES AND ANY IMPERFECTIONS BEFORE LIGHTLY SANDING EXISTING DOORS AND FRAME TO REMAIN THAT ARE DESIGNATED FOR NEW PAINT FINISHES
12. CONTRACTOR SHALL PAINT EXISTING DOORS AND FRAMES TO REMAIN AFTER NEW HARDWARE IS INSTALLED
13. CONTRACTOR SHALL REMOVE ALL EXISTING METAL FABRICATIONS FOR ALTERNATIVE DOOR LOCKS FROM EXISTING DOOR AND FRAMES. PROVIDE SMOOTH PAINTABLE FINISH AT ANY REMOVED METAL FABRICATIONS

ABBREVIATIONS

AL - ALUMINUM
ANOD - ANODIZED
GL - GLASS
HM - HOLLOW METAL
MTL - METAL
PL - PLASTIC LAMINATE
PNT - PAINT
WD - SOLID CORE WOOD

DIVISION 08 - GLAZING TYPE LEGEND

GL-1
088000.1 - GLAZING - GL-1
TYPE: EXTERIOR STOREFRONT GLASS
MATERIAL: 1" TEMPERED INSULATED VISION GLASS
COLOR TINT: TO BE DETERMINED BY ARCHITECT
MINIMUM VALUES - VLT: 50% U-FACTOR: 0.29 SHGC: 0.25

GL-2
088000.2 - GLAZING - GL-2
TYPE: INTERIOR STOREFRONT GLASS
MATERIAL: 1/4" CLEAR TEMPERED FLOAT GLASS
COLOR TINT: TO BE DETERMINED BY ARCHITECT
MINIMUM VALUES - N/A

GL-3
088000.2 - GLAZING - GL-3
TYPE: INTERIOR STOREFRONT GLASS
MATERIAL: 1/4" CLEAR TEMPERED FLOAT GLASS WITH TRANSLUCENT FILM
(REFER TO GLAZING ELEVATION & INTERIOR ELEVATION)
(APPLY TO OFFICE/ROOM SIDE OF GLASS)
COLOR TINT: CLEAR
TRANSLUCENT FILM: REFER TO FINISH LIST
MINIMUM VALUES - N/A

GL-4
088000.2 - GLAZING - GL-4
TYPE: FIRE RATED DOOR VISION GLASS
MATERIAL: 5/16" CLEAR CERAMIC FIRE RATED GLAZING
COLOR TINT: CLEAR
MINIMUM VALUES - 90 MIN FIRE RATED GLAZING

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

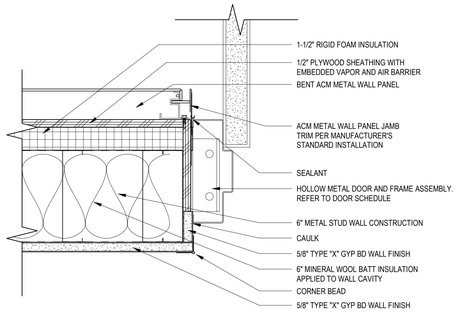
Drawn By:
KR

Checked By:
KR

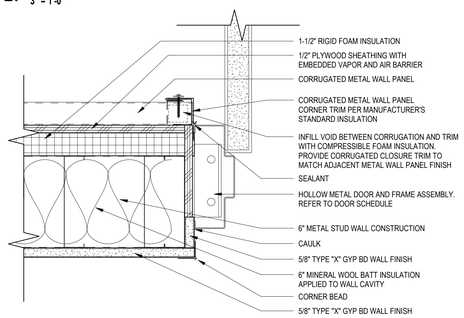
Sheet Title:
VEHICLE STORAGE DOOR SCHEDULE, DOOR TYPES, AND DETAILS

Drawing No.
A7.12

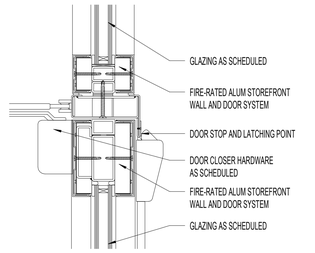
5/7/2026 1:47:33 PM



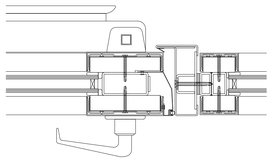
27 EXT DOOR JAMB DTL (ACM)
3" = 1'-0"



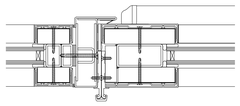
26 EXT DOOR JAMB DTL (MTL PNL)
3" = 1'-0"



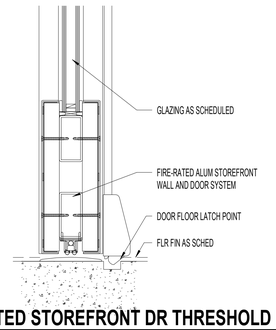
25 FIRE-RATED STOREFRONT DR HEAD/TRANSOM DTL
3" = 1'-0"



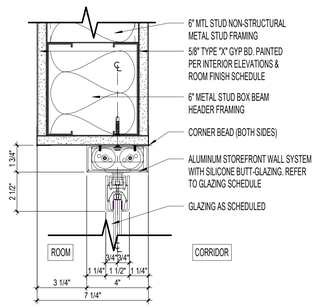
24 FIRE-RATED STOREFRONT DR JAMB LATCH DTL
3" = 1'-0"



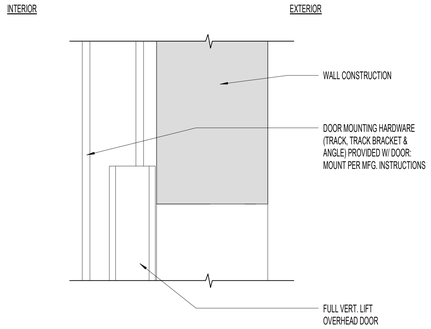
23 FIRE-RATED STOREFRONT DR JAMB HINGE DTL
3" = 1'-0"



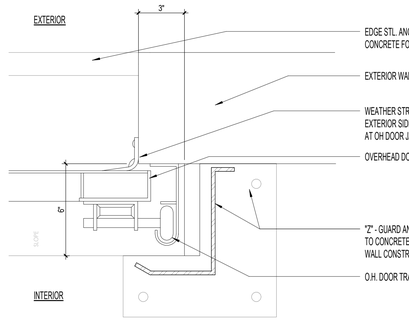
22 FIRE-RATED STOREFRONT DR THRESHOLD DTL
3" = 1'-0"



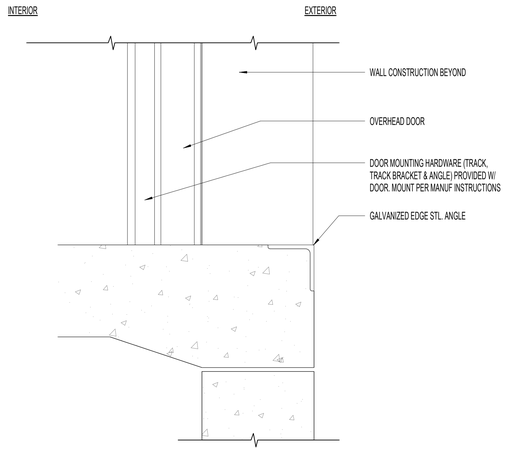
21 BUTT GLAZED DR CLSR HEAD
3" = 1'-0"



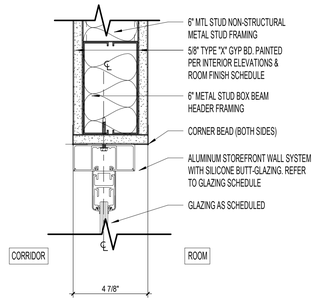
17 OH DOOR HEAD
3" = 1'-0"



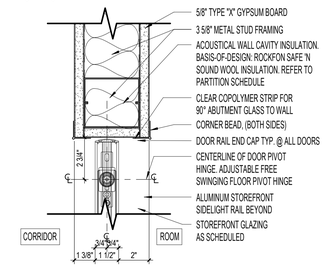
16 OH DOOR JAMB
3" = 1'-0"



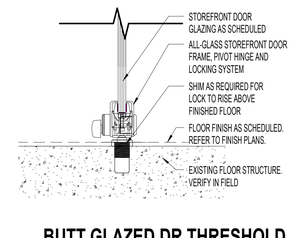
15 OH DOOR THRESHOLD
3" = 1'-0"



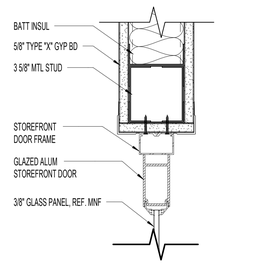
20 BUTT GLAZED DR HEAD
3" = 1'-0"



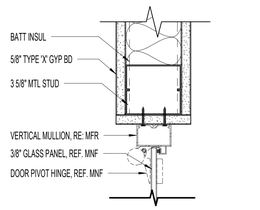
19 BUTT GLAZED DR JAMB
3" = 1'-0"



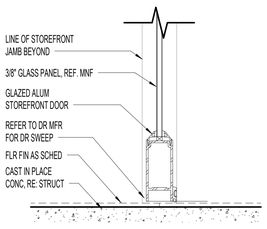
18 BUTT GLAZED DR THRESHOLD
3" = 1'-0"



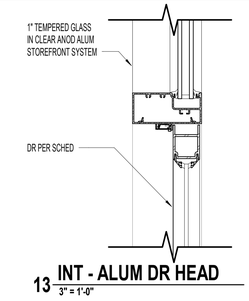
9 INT - ALUM DR HEAD
3" = 1'-0"



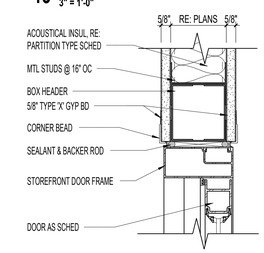
8 INT - ALUM DR JAMB
3" = 1'-0"



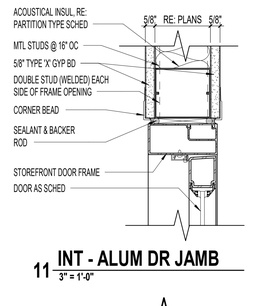
7 INT - ALUM DR THRESHOLD
3" = 1'-0"



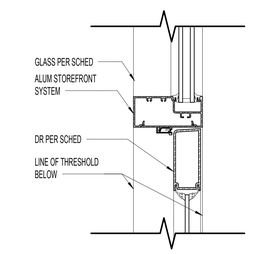
13 INT - ALUM DR HEAD
3" = 1'-0"



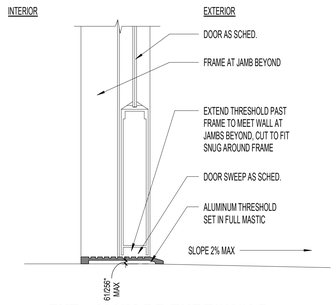
12 INT - ALUM DR HEAD
3" = 1'-0"



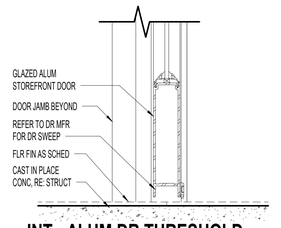
11 INT - ALUM DR JAMB
3" = 1'-0"



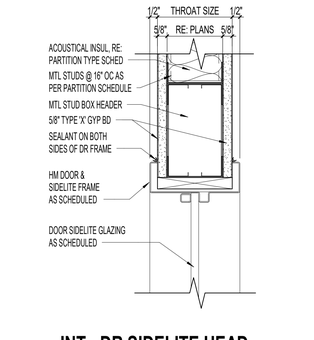
10 INT - ALUM DR JAMB
3" = 1'-0"



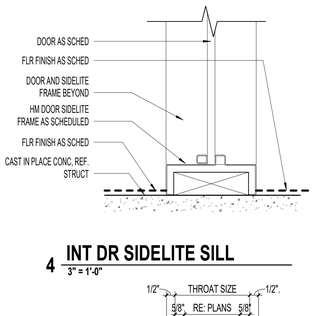
14 EXT - ALUM DR THRESHOLD
3" = 1'-0"



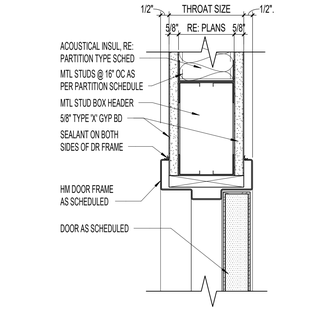
6 INT - ALUM DR THRESHOLD
3" = 1'-0"



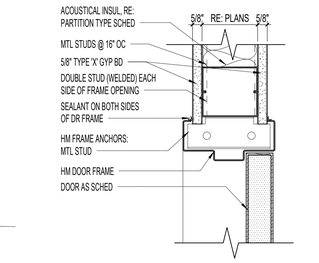
5 INT - DR SIDELITE HEAD
3" = 1'-0"



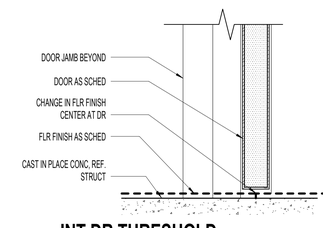
4 INT DR SIDELITE SILL
3" = 1'-0"



3 INT - DR HEAD
3" = 1'-0"



2 INT - DR JAMB
3" = 1'-0"



1 INT DR THRESHOLD
3" = 1'-0"

5/7/2026 1:47:35 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

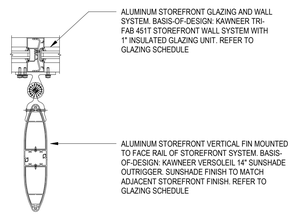
Project No.
3015

Drawn By:
KR

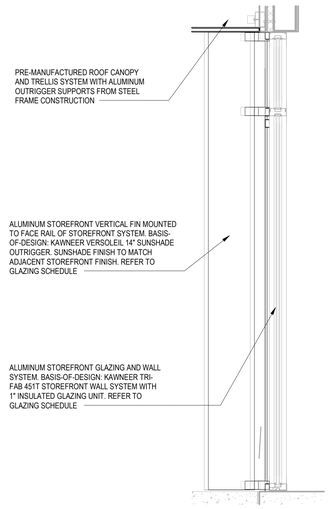
Checked By:
KR

Sheet Title:
DOOR DETAILS

Drawing No.
A7.15



2 SF-1 STOREFRONT FIN PLAN DTL
1 1/2" = 1'-0"



1 SF-1 STOREFRONT VERTICAL FIN ELEVATION
3/4" = 1'-0"

STOREFRONT GLAZING SCHEDULE (PHASE 1)

Type Mark	Manufacturer (BASIS-OF-DESIGN)	Model (BASIS-OF-DESIGN)	Frame Finish	Glass Type	Sill Height	Height	Width	Head Dtl	Jamb Dtl	Sill Dtl	Window Blinds	Comments
A	KAWNEER	TRI-FAB 451T			0"	10' - 0"	111' - 3"					
B	KAWNEER	TRI-FAB 451T			0"	15' - 0"	15' - 5 5/8"					
C	KAWNEER	TRI-FAB 451T			0"	10' - 0"	31' - 10"					
D	KAWNEER	TRI-FAB 451T			0"	21' - 0"	3' - 2"					
E	KAWNEER	TRI-FAB 451T			0"	10' - 0"	35' - 3 5/8"					
E2	KAWNEER	TRI-FAB 451T			1' - 0"	4' - 0"	35' - 6 1/8"					
F	KAWNEER	TRI-FAB 451T			0"	10' - 0"	27' - 8 3/4"					
F2	KAWNEER	TRI-FAB 451T			1' - 0"	4' - 0"	27' - 9 5/8"					
G	KAWNEER	TRI-FAB 451T			12' - 9"	2' - 3"	18' - 0"					
H	KAWNEER	TRI-FAB 451T			12' - 9"	2' - 3"	21' - 0"					
J	KAWNEER	TRI-FAB 451T			4' - 6"	3' - 0"	19' - 0"					
K	KAWNEER	TRI-FAB 451T			4' - 6"	3' - 0"	14' - 9"					
L	KAWNEER	TRI-FAB 451T			12' - 9"	2' - 3"	30' - 0"					

STOREFRONT GLAZING SCHEDULE (PHASE 2)

Type Mark	Manufacturer (BASIS-OF-DESIGN)	Model (BASIS-OF-DESIGN)	Frame Finish	Glass Type	Sill Height	Height	Width	Head Dtl	Jamb Dtl	Sill Dtl	Window Blinds	Comments
M	KAWNEER	TRI-FAB 451T			12' - 9"	2' - 3"	23' - 4"					
N	KAWNEER	TRI-FAB 451T			12' - 9"	2' - 3"	23' - 4"					

GENERAL NOTES

01. REFER TO DOOR AND FRAME SCHEDULE FOR HOLLOW METAL DOORS

02. REFER TO DOOR AND FRAME SCHEDULE FOR OVERHEAD DOORS

03. CONTRACTOR TO USE THE ARCHITECTS GLAZING TYPE PLAN DESIGNATION NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWINGS SCHEDULE SUBMITTALS.

04. NOT USED

05. REFER TO GLAZING SCHEDULE FOR GLAZING AND FRAME DIMENSIONS AND FINISHES.

06. ALL MANUFACTURER AND MODEL SPECIFICATIONS ARE FOR BASIS OF DESIGN. SUBSTITUTIONS WILL BE ALLOWED PER ARCHITECTS AND OWNERS APPROVAL.

07. FOR ALL INTERIOR GLAZING LOCATED WITHIN AN EXISTING WALL OPENING. CONTRACTOR SHALL VERIFY DIMENSIONS OF OPENING PRIOR TO FABRICATION

08. GLAZING SCHEDULES ENCOMPASS ALL PHASES OF CONSTRUCTION. CONTRACTOR TO REFERENCE STOREFRONT INSTALLATIONS ASSOCIATED WITH CURRENT PHASE OF WORK.

09. FOR ALL INTERIOR GLAZING LOCATED WITHIN AN EXISTING STOREFRONT SYSTEM. CONTRACTOR SHALL VERIFY DIMENSIONS OF OPENING , AND DIMENSIONS OF EXISTING STOREFRONT SYSTEM PRIOR TO FABRICATION

ABBREVIATIONS

AL - ALUMINUM
ANOD - ANODIZED
GL - GLASS
HM - HOLLOW METAL
MTL - METAL
PL - PLASTIC LAMINATE
PNT - PAINT

DIVISION 08 - GLAZING TYPE LEGEND

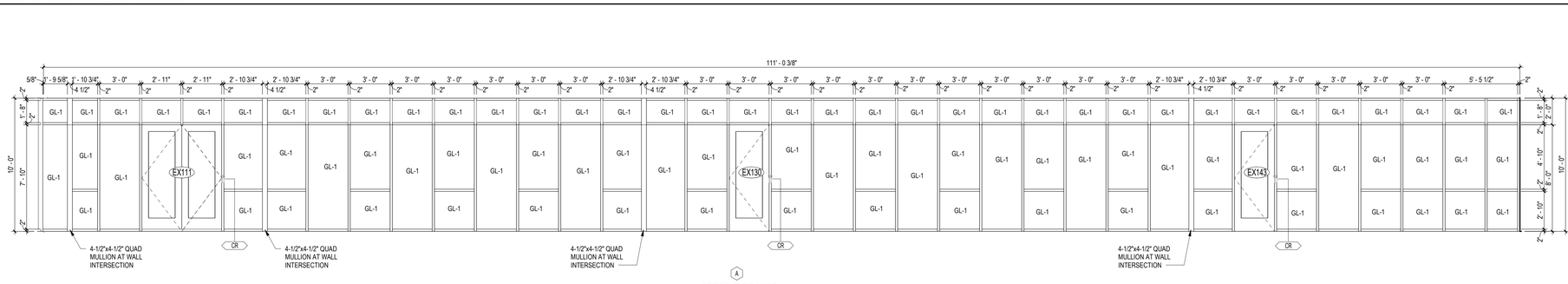
GL-1
088000.1 - GLAZING - GL-1
TYPE: EXTERIOR STOREFRONT GLASS
MATERIAL: 1" TEMPERED INSULATED VISION GLASS
COLOR TINT: GRAY
MINIMUM VALUES - VLT: 32% U-FACTOR: 0.28 SHGC: 0.19
BASIS-OF-DESIGN: VITRO SOLARBAN 70 SOLAR GREY + CLEAR

GL-2
088000.2 - GLAZING - GL-2
TYPE: INTERIOR TEMPERED GLASS
MATERIAL: 1/4" CLEAR TEMPERED FLOAT GLASS
COLOR TINT: CLEAR
MINIMUM VALUES - N/A

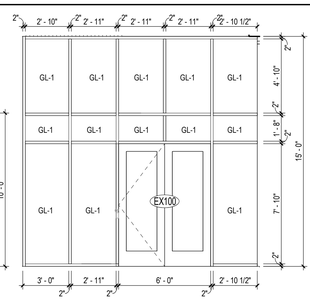
GL-3
088000.2 - GLAZING - GL-3
TYPE: INTERIOR STOREFRONT GLASS
MATERIAL: 1/2" CLEAR TEMPERED FLOAT GLASS WITH TRANSLUCENT FILM
(REFER TO GLAZING ELEVATION & INTERIOR ELEVATION)
(APPLY TO CONFERENCE ROOM SIDE OF GLASS)
COLOR TINT: CLEAR
TRANSLUCENT FILM: REFER TO FINISH LIST
MINIMUM VALUES - N/A

GL-4
088000.2 - GLAZING - GL-4
TYPE: FIRE RATED CERAMIC VISION GLASS
MATERIAL: 3/16" CLEAR CERAMIC FIRE RATED GLAZING
COLOR TINT: CLEAR
MINIMUM VALUES - 45 MIN FIRE RATED GLAZING
BASIS-OF-DESIGN: TGP FIRE-LITE CERAMIC GLAZING

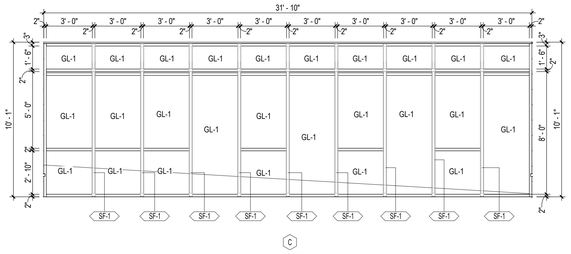
EXTERIOR STOREFRONT GLAZING FRAME TYPES



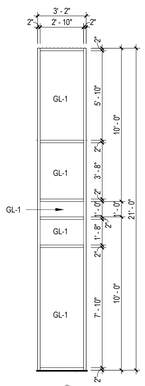
A
OFFICE ENTRANCE



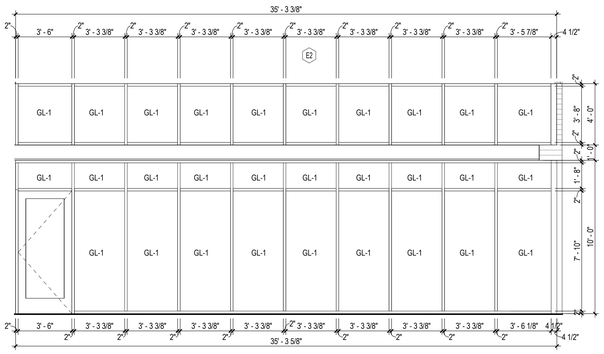
B
LOBBY ENTRANCE



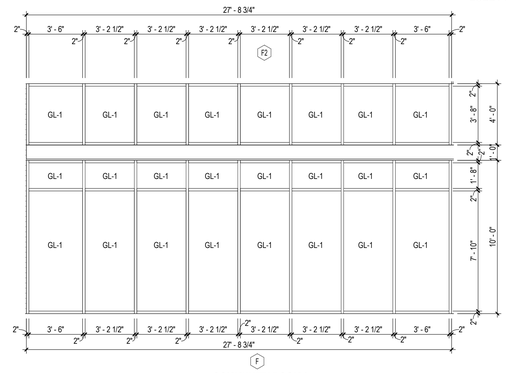
C
LOBBY



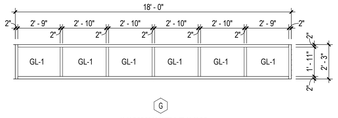
D
LOBBY - PATIO



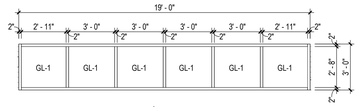
E
COMMUNITY ROOM / PATIO



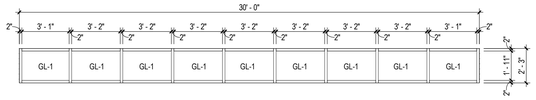
F
COMMUNITY ROOM / WALKING PATH



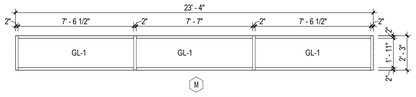
G
COMMUNITY ROOM CLERESTORY



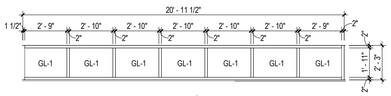
J
COMMISSIONER'S OFFICE



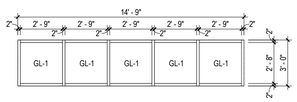
L
STORE ROOM CLERESTORY



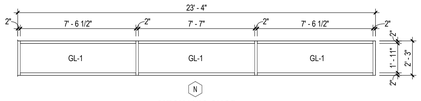
M
MECHANIC SHOP CLERESTORY



H
COMMUNITY ROOM CLERESTORY



K
SUPERVISOR'S OFFICE



N
MECHANIC SHOP CLERESTORY

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

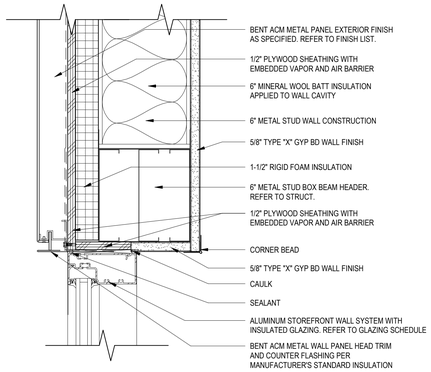
Revisions:

REV.	DATE	TITLE

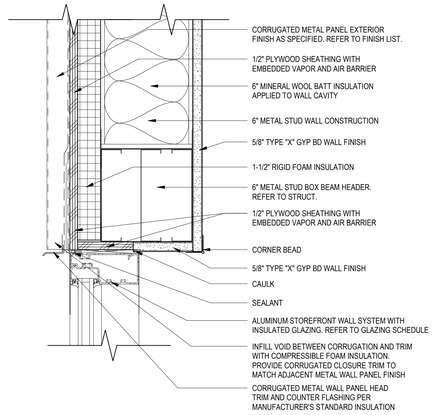
Date: 95% CONSTRUCTION DOCS 05-04-2026
Project No. 3015
Drawn By: KR
Checked By: KR
Sheet Title: WINDOW, GLAZING, FRAME SCHEDULE
Drawing No.

A7.20

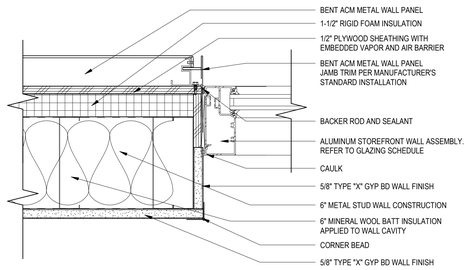
5/7/2026 1:47:39 PM



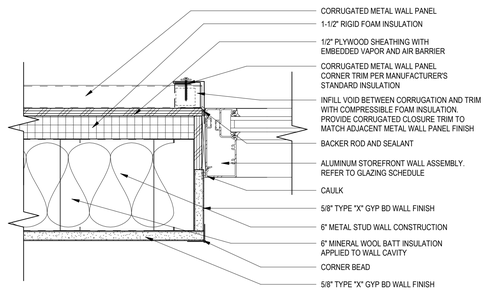
5 EXT STOREFRONT HEAD DTL
3" = 1'-0"



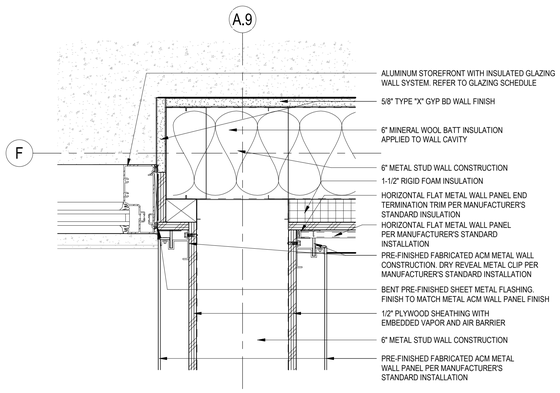
4 EXT STOREFRONT HEAD DTL
3" = 1'-0"



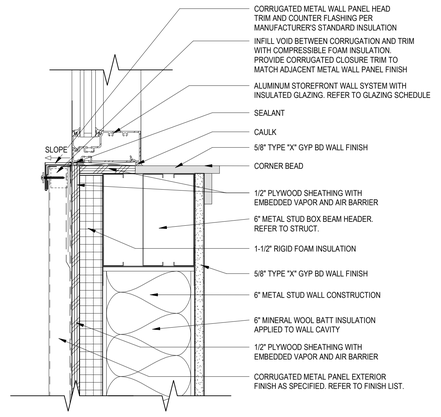
3 EXT STOREFRONT JAMB DTL (ALUCO)
3" = 1'-0"



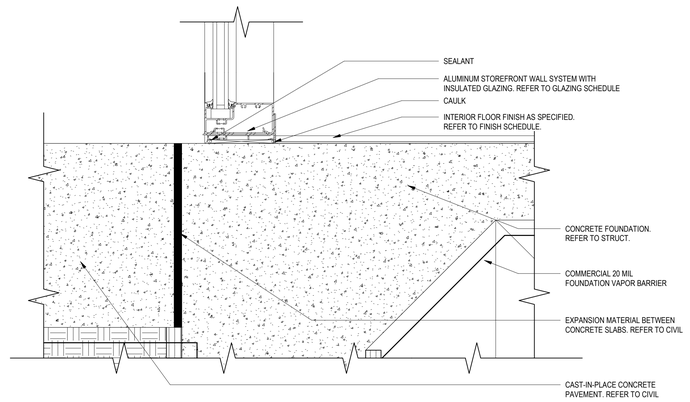
2 EXT STOREFRONT JAMB DTL
3" = 1'-0"



1 ADMIN BLDG EXTERIOR STOREFRONT JAMB DTL (MTL PNL)
3" = 1'-0"



7 EXT STOREFRONT SILL DTL
3" = 1'-0"



6 EXT STOREFRONT SILL DTL
3" = 1'-0"

5/7/2026 1:47:40 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

Checked By:
KR

Sheet Title:
EXTERIOR GLAZING DETAILS

Drawing No.
A7.21

BUTT GLAZING STOREFRONT SCHEDULE

Type Mark	Manufacturer	Model	Frame Finish	Glass Type	Sill Height	Height	Width	Head Dtl	Jamb Dtl	Sill Dtl	Window Blinds	Comments
T	C.R. LAURENCE	CLEAR VIEW GLASS WALL OFFICE SYSTEM			0"	9' - 0"	9' - 3"					
U	C.R. LAURENCE	CLEAR VIEW GLASS WALL OFFICE SYSTEM			0"	9' - 0"	9' - 3"					
V	C.R. LAURENCE	CLEAR VIEW GLASS WALL OFFICE SYSTEM			0"	9' - 0"	9' - 3"					
W	C.R. LAURENCE	CLEAR VIEW GLASS WALL OFFICE SYSTEM			0"	9' - 0"	9' - 3"					

INTERIOR STOREFRONT GLAZING SCHEDULE

Type Mark	Manufacturer	Model	Frame Finish	Glass Type	Sill Height	Height	Width	Head Dtl	Jamb Dtl	Sill Dtl	Window Blinds	Comments
Q	KAWNEER	TRI-FAB 451			0"	10' - 0"	5' - 7 3/4"					
R	KAWNEER	TRI-FAB 451			0"	9' - 0"	5' - 0"					
S	KAWNEER	TRI-FAB 451			0"	10' - 0"	5' - 7 3/8"					

FIRE-RATED INTERIOR STOREFRONT GLAZING SCHEDULE

Type Mark	Manufacturer	Model	Frame Finish	Glass Type	Fire Rating	Sill Height	Height	Width	Head Dtl	Jamb Dtl	Sill Dtl	Window Blinds	Comments
P	TGP	FIREFRAMES DESIGNER SERIES	BLACK ANNODIZED		45 MINS	0"	10' - 0"	5' - 7 1/2"					

FIXED WINDOW SCHEDULE

Frame Type	Manufacturer	Model	Frame Finish	Glass Type	Sill Height	Height	Width	Head Dtl	Jamb Dtl	Sill Dtl	Window Blinds	Comments
X	C.R. LAURENCE	7200 SERIES FIXED WINDOW			3' - 0"	4' - 0"	2' - 0"					

FIXED WINDOW SCHEDULE (PHASE 2)

Frame Type	Manufacturer	Model	Frame Finish	Glass Type	Sill Height	Height	Width	Head Dtl	Jamb Dtl	Sill Dtl	Window Blinds	Comments
AA	C.R. LAURENCE	7200 SERIES FIXED WINDOW			3' - 0"	3' - 6"	4' - 0"					
Y	C.R. LAURENCE	7200 SERIES FIXED WINDOW			3' - 6"	3' - 6"	5' - 0"					
Z	C.R. LAURENCE	7200 SERIES FIXED WINDOW			4"	6' - 10"	2' - 6"					

GENERAL NOTES

01. REFER TO DOOR AND FRAME SCHEDULE FOR HOLLOW METAL DOORS

02. REFER TO DOOR AND FRAME SCHEDULE FOR OVERHEAD DOORS

03. CONTRACTOR TO USE THE ARCHITECTS GLAZING TYPE PLAN DESIGNATION NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWINGS SCHEDULE SUBMITTALS.

04. NOT USED

05. REFER TO GLAZING SCHEDULE FOR GLAZING AND FRAME DIMENSIONS AND FINISHES.

06. ALL MANUFACTURER AND MODEL SPECIFICATIONS ARE FOR BASIS OF DESIGN. SUBSTITUTIONS WILL BE ALLOWED PER ARCHITECTS AND OWNERS APPROVAL.

07. FOR ALL INTERIOR GLAZING LOCATED WITHIN AN EXISTING WALL OPENING. CONTRACTOR SHALL VERIFY DIMENSIONS OF OPENING PRIOR TO FABRICATION

08. GLAZING SCHEDULES ENCOMPASS ALL PHASES OF CONSTRUCTION. CONTRACTOR TO REFERENCE STOREFRONT INSTALLATIONS ASSOCIATED WITH CURRENT PHASE OF WORK.

09. FOR ALL INTERIOR GLAZING LOCATED WITHIN AN EXISTING STOREFRONT SYSTEM. CONTRACTOR SHALL VERIFY DIMENSIONS OF OPENING , AND DIMENSIONS OF EXISTING STOREFRONT SYSTEM PRIOR TO FABRICATION

ABBREVIATIONS

AL - ALUMINUM
ANOD - ANODIZED
GL - GLASS
HM - HOLLOW METAL
MTL - METAL
PL - PLASTIC LAMINATE
PNT - PAINT

DIVISION 08 - GLAZING TYPE LEGEND

GL-1

088000.1 - GLAZING - GL-1
TYPE: EXTERIOR STOREFRONT GLASS
MATERIAL: 1" TEMPERED INSULATED VISION GLASS
COLOR TINT: GRAY
MINIMUM VALUES - VLT: 32% U-FACTOR: 0.28 SHGC: 0.19
BASIS-OF-DESIGN: VITRO SOLARBAN 70 SOLAR GREY + CLEAR

GL-2

088000.2 - GLAZING - GL-2
TYPE: INTERIOR TEMPERED GLASS
MATERIAL: 1/4" CLEAR TEMPERED FLOAT GLASS
COLOR TINT: CLEAR
MINIMUM VALUES - N/A

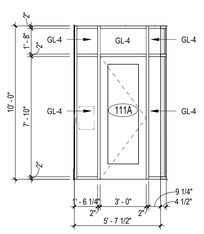
GL-3

088000.2 - GLAZING - GL-3
TYPE: INTERIOR STOREFRONT GLASS
MATERIAL: 1/2" CLEAR TEMPERED FLOAT GLASS WITH TRANSLUCENT FILM
(REFER TO GLAZING ELEVATION & INTERIOR ELEVATION)
(APPLY TO CONFERENCE ROOM SIDE OF GLASS)
COLOR TINT: CLEAR
TRANSLUCENT FILM: REFER TO FINISH LIST
MINIMUM VALUES - N/A

GL-4

088000.2 - GLAZING - GL-4
TYPE: FIRE RATED CERAMIC VISION GLASS
MATERIAL: 3/16" CLEAR CERAMIC FIRE RATED GLAZING
COLOR TINT: CLEAR
MINIMUM VALUES - 45 MIN FIRE RATED GLAZING
BASIS-OF-DESIGN: TGP FIRE-LITE CERAMIC GLAZING

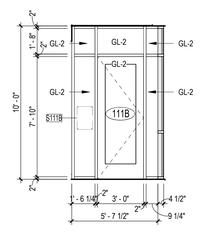
FIRE-RATED INTERIOR STOREFRONT GLAZING FRAME TYPES



P

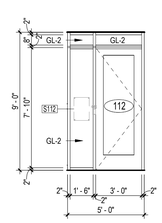
LOBBY / COMMISSIONER

INTERIOR STOREFRONT GLAZING FRAME TYPES



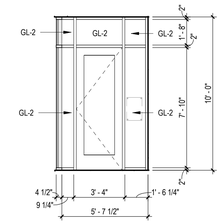
Q

COMMISSIONER / ASPHALT OPERATIONS



R

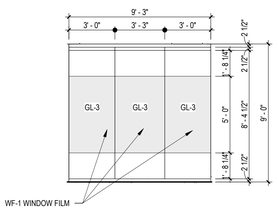
COMMISSIONER OFFICE



S

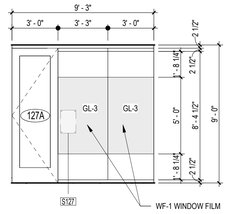
BULLPEN / ASPHALT OPERATIONS

INTERIOR BUTT-GLAZING STOREFRONT FRAME TYPES



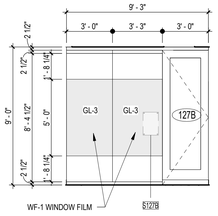
T

CONFERENCE ROOM



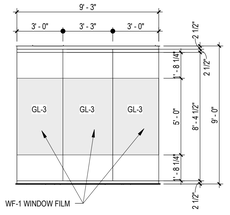
U

CONFERENCE ROOM



V

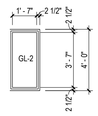
CONFERENCE ROOM



W

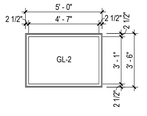
CONFERENCE ROOM

FIXED GLAZING FRAME TYPES



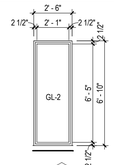
X

MEDIA ROOM



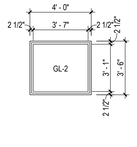
Y

MECHANIC SHOP OFFICE



Z

MECHANIC SHOP OFFICE



AA

MECHANIC SHOP OFFICE / TOOL ROOM

5/7/2026 1:47:43 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

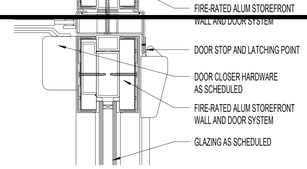
Project No.
3015

Drawn By:
KR

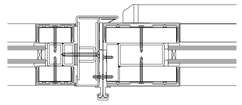
Checked By:
KR

Sheet Title:
WINDOW, GLAZING, FRAME SCHEDULE

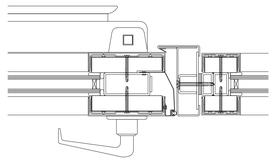
Drawing No.
A7.25



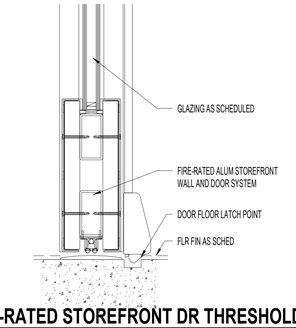
21 FIRE-RATED STOREFRONT DR HEAD/TRANSOM DTL
3" = 1'-0"



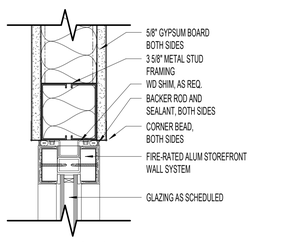
20 FIRE-RATED STOREFRONT DR JAMB HINGE DTL
3" = 1'-0"



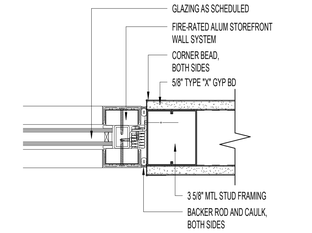
19 FIRE-RATED STOREFRONT DR JAMB LATCH DTL
3" = 1'-0"



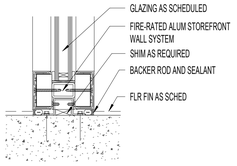
18 FIRE-RATED STOREFRONT DR THRESHOLD DTL
3" = 1'-0"



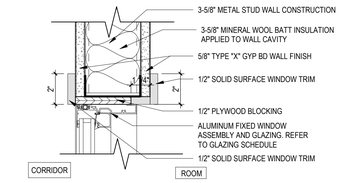
17 FIRE-RATED STOREFRONT HEAD DTL
3" = 1'-0"



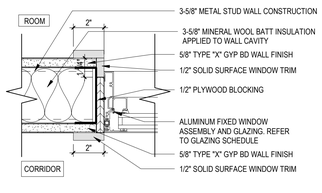
16 FIRE-RATED STOREFRONT JAMB DTL
3" = 1'-0"



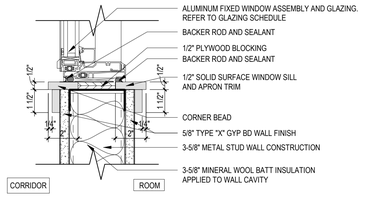
15 FIRE-RATED STOREFRONT SILL DETAIL
3" = 1'-0"



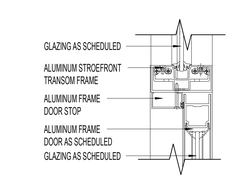
14 FIXED WINDOW HEAD DTL
3" = 1'-0"



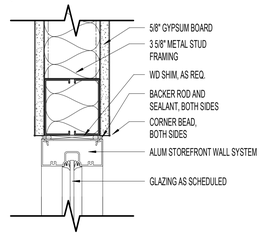
13 FIXED WINDOW JAMB DTL
3" = 1'-0"



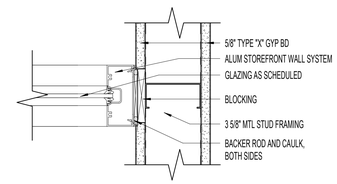
12 FIXED WINDOW SILL DTL
3" = 1'-0"



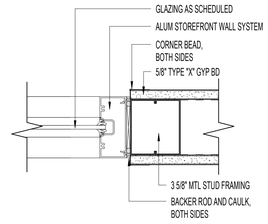
11 INT - TRI-FAB 400 STOREFRONT TRANSOM
3" = 1'-0"



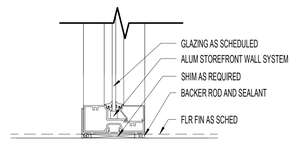
10 INT - STOREFRONT HEAD
3" = 1'-0"



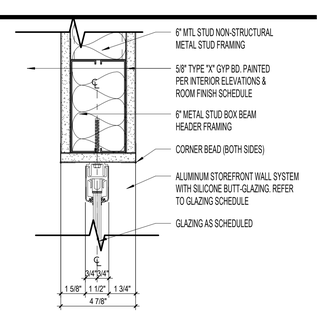
9 INT - STOREFRONT JAMB - WALL
3" = 1'-0"



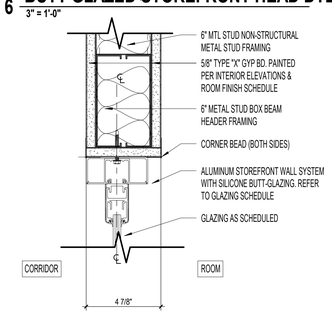
8 INT - STOREFRONT JAMB
3" = 1'-0"



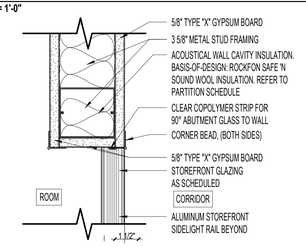
7 INT - STOREFRONT SILL
3" = 1'-0"



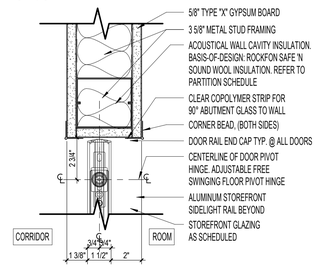
6 BUTT GLAZED STOREFRONT HEAD DTL
3" = 1'-0"



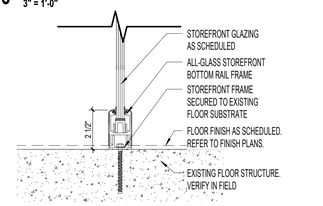
5 BUTT GLAZED STOREFRONT DR HEAD DTL
3" = 1'-0"



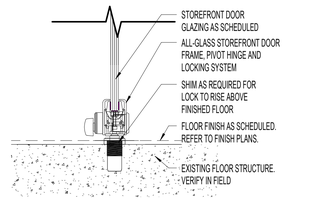
4 BUTT GLAZED STOREFRONT JAMB DTL
3" = 1'-0"



3 BUTT GLAZE STOREFRONT DR JAMB
3" = 1'-0"



2 BUTT GLAZED STOREFRONT SILL DTL
3" = 1'-0"



1 BUTT GLAZE STOREFRONT DR THRESHOLD
3" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

Checked By:
KR

Sheet Title:
INTERIOR GLAZING DETAILS

Drawing No.
A7.26

5/7/2026 1:47:45 PM

INTERIOR FINISH MATERIAL SCHEDULE

Material Sorting	Materials-HEADING	MARK	DESCRIPTION OF USE	MANUFACTURER	PRODUCT I.D.	PATTERN	COLOR	DIMENSION	NOTE
INTERIOR FINISH MATERIAL - PAINT AND COATING									
A	INTERIOR FINISH MATERIAL - PAINT AND COATING	PNT-1	FIELD PAINT	PPG			ANTIQUE WHITE		
A	INTERIOR FINISH MATERIAL - PAINT AND COATING	PNT-2	ACCENT PAINT	PPG			MOON/MAGIC GRAY		
A	INTERIOR FINISH MATERIAL - PAINT AND COATING	PNT-3	ACCENT PAINT	PPG			CHARRO BROWN		
A	INTERIOR FINISH MATERIAL - PAINT AND COATING	PNT-4	ACCENT PAINT	PPG			MODERN GRAY		
INTERIOR FINISH MATERIAL - CEILING									
B	INTERIOR FINISH MATERIAL - CEILING	ACT-1	CEILING TILE	ROCKFON		LAYIN	ALASKA	2' X 2'	
INTERIOR FINISH MATERIAL - WALL									
C	INTERIOR FINISH MATERIAL - WALL	CTW-1	PORCELAIN TILE-LOBBY, COMMUNITY ROOM	NASCO	TRAVERTINO	MATTE PORCELAIN TILE	CREMA	48" X 48"	JOSEPH TAWI- joseph@nascostonetile.com
C	INTERIOR FINISH MATERIAL - WALL	CTW-2	CERAMIC TILE-KITCHEN, BREAKROOM BACKSPLASH, EMPLOYEE RESTROOMS	THORNTREE	4EARTH	CERAMIC GLAZED SUBWAY TILE	GLACIER	3" X 12"	CATHERINE ATKINS-catherine@thorntreeslate.com
C	INTERIOR FINISH MATERIAL - WALL	CTW-3	PORCELAIN TILE- PUBLIC RESTROOMS	CROSSVILLE	SETTECENTO OXIDA	PORCELAIN GLAZED SUBWAY TILE	GRAY	3" X 12"	EMILY NOLAN-emily.nolan@amfproducts.com
C	INTERIOR FINISH MATERIAL - WALL	CTW-4	CERAMIC TILE-KITCHEN EXTERIOR	CROSSVILLE	SETTECENTO OXIDA	PORCELAIN GLAZED SUBWAY TILE	BLACK	3" X 12"	EMILY NOLAN-emily.nolan@amfproducts.com
C	INTERIOR FINISH MATERIAL - WALL	CTW-5	PORCELAIN PANEL-COMMINUTY ROOM & CONFERENCE ROOM	STONEPEAK	HI271204BXL	CHROME	ACCIAIO CORTEN	270 CM X 120 CM	KELLY RYAN-kryan@tilebar.com
C	INTERIOR FINISH MATERIAL - WALL	CTW-6	PORCELAIN WALL TILE- OPEN OFFICE	ELYSIUM TILES	OXYDE DARK TILE	CHROME	BLACK	12" x 24"	LAUREL PETERS-lapeters@brick.com
C	INTERIOR FINISH MATERIAL - WALL	CTW-7	PORCELAIN WALL TILE-PUBLIC RESTROOMS	NASCO	TRAVERTINO	MATTE PORCELAIN TILE	OCEAN BLUE	48" X 110"	JOSEPH TAWI- joseph@nascostonetile.com
C	INTERIOR FINISH MATERIAL - WALL	CTW-8	PORCELAIN TILE-OFFICE RESTROOMS	NASCO	TRAVERTINO	MATTE PORCELAIN TILE	OCEAN BLUE	12" x 24"	ANGELA BROOKS-abrooks@glazzio.com
C	INTERIOR FINISH MATERIAL - WALL	CTW-9	PORCELAIN TILE-COMMUNITY ROOM	NASCO	TRAVERTINO	MATTE PORCELAIN TILE	CREMA	48" X 110"	JOSEPH TAWI- joseph@nascostonetile.com
C	INTERIOR FINISH MATERIAL - WALL	FRP-1	FRP-MECHANIC SHOP RESTROOMS	VALTO	VARIETEX	SANDSTONE FINISH	SUGARLOAF SAND		
C	INTERIOR FINISH MATERIAL - WALL	WS-1	ACOUSTICAL WOOD SLATS-LOBBY & CONFERENCE ROOM	ACOUSTICAL ART CONCEPTS	AKUPANEL	SLATED	BLACK		
C	INTERIOR FINISH MATERIAL - WALL	PT-2	PORCELAIN TILE-BULLPEN	GLAZZIO SURFACES	DESTINO	MATTE PORCELAIN TILE	ROMEO	48" X 48"	ANGELA BROOKS-abrooks@glazzio.com
INTERIOR FINISH MATERIAL - BASE									
D	INTERIOR FINISH MATERIAL - BASE	RB-1	RUBBER BASE	ROPPE	PINNACLE	700 SERIES	193 BLACK BROWN	1/8"	TABITHA MYERS 806-548-4067
D	INTERIOR FINISH MATERIAL - BASE	TB-1	TILE BASE-LOBBY	NASCO	TRAVERTINO	BASE TRIM	CREMA	8" X 48"	JOSEPH TAWI- joseph@nascostonetile.com
D	INTERIOR FINISH MATERIAL - BASE	TB-2	TILE BASE-PUBLIC RESTROOM	NASCO	TRAVERTINO	BASE TRIM	OCEAN BLUE	8" X 48"	JOSEPH TAWI- joseph@nascostonetile.com
D	INTERIOR FINISH MATERIAL - BASE	TB-3	TILE BASE-KITCHEN	TILEBAR	ELEMENTAL	IRONSPOT	GRAY	6" x 6"	KELLY RYAN-kryan@tilebar.com
INTERIOR FINISH MATERIAL - FLOORING									
E	INTERIOR FINISH MATERIAL - FLOORING	LVT-1	LUXURY VINYL TILE-COMMUNITY ROOM	SHAW	0516V	STRAND	CLAY	18" x 36"	JESSI CAIN-jessi.cain@shawcontract.com
E	INTERIOR FINISH MATERIAL - FLOORING	SDT-1	STATIC DISSIPATIVE TILE-IT, JANITOR ROOM	ARMSTRONG	51960	EXCELON	BEACH	12" x 12"	
E	INTERIOR FINISH MATERIAL - FLOORING	CPT-1	CARPET-CONFERENCE ROOM	INTERFACE	125980AK00	TIED TOGETHER II	108602 BLACK	25cm x 1m	MATT BRADLEY-mattbradley@interfacecarpet.com
E	INTERIOR FINISH MATERIAL - FLOORING	CPT-2	CARPET-OFFICES	INTERFACE	125550AK00	FRENCH SEAMS	COMPIEGNE	9.845" X 39.38""	MATT BRADLEY-mattbradley@interfacecarpet.com
E	INTERIOR FINISH MATERIAL - FLOORING	SC-1	SEALED CONCRETE	EUCLID CHEMICAL	EUCO DIAMOND HARD				
E	INTERIOR FINISH MATERIAL - FLOORING	PT-1	PORCELAIN TILE-PUBLIC RESTROOM, OFFICE RESTROOMS	NASCO	TRAVERTINO	MATTE PORCELAIN TILE	OCEAN BLUE	48" X 48"	JOSEPH TAWI- joseph@nascostonetile.com
E	INTERIOR FINISH MATERIAL - FLOORING	PT-2	PORCELAIN TILE-BULLPEN	GLAZZIO SURFACES	DESTINO	MATTE PORCELAIN TILE	ROMEO	48" X 48"	ANGELA BROOKS-abrooks@glazzio.com
E	INTERIOR FINISH MATERIAL - FLOORING	PT-4	CERAMIC TILE-KITCHEN	TILEBAR	ELEMENTAL	IRONSPOT	GRAY	6" x 6"	KELLY RYAN-kryan@tilebar.com
INTERIOR FINISH MATERIAL - MILLWORK									
G	INTERIOR FINISH MATERIAL - MILLWORK	PL-1	PLASTIC LAMINATE-BULLPEN, RESTROOMS, BREAKROOMS	WILSONART	8286K-05	TIMBERGRAIN FINISH	WALNUT PB EMBER		JAMIE BORGER-jamie.borger@wilsonart.com
G	INTERIOR FINISH MATERIAL - MILLWORK	PL-2	PLASTIC LAMINATE-WAITING ROOM	WILSONART	7949K-18	LINEARITY FINISH	ASIAN NIGHT		JAMIE BORGER-jamie.borger@wilsonart.com
INTERIOR FINISH MATERIAL - SPECIALTY									
H	INTERIOR FINISH MATERIAL - SPECIALTY	SS-1	SOLID SURFACE- BULLPEN, RESTROOMS, BREAKROOMS	WILSONART	9223SS		ANGEL FALLS		JAMIE BORGER-jamie.borger@wilsonart.com
H	INTERIOR FINISH MATERIAL - SPECIALTY	RS-1	ROLLER SHADES, CONCEALED	MECHOSHADES	ECOVEIL	1550 SERIES	1366 EGGSHELL	3% OPEN	KATHY MACASA-kathym@mechoshade.com 917-658-3202
H	INTERIOR FINISH MATERIAL - SPECIALTY	GR-1	GROUT	MAPEI			5014 BISCUIT		
H	INTERIOR FINISH MATERIAL - SPECIALTY	GR-2	GROUT	MAPEI			5002 PEWTER		
H	INTERIOR FINISH MATERIAL - SPECIALTY	TP-1	TOILET PARTITION RESTROOM	HADRIAN		PHENOLIC	318 FLORENCE WALNUT		MIKE CLARK-mclark@sasrep.com 972-880-2486
H	INTERIOR FINISH MATERIAL - SPECIALTY	TP-2	TOILET PARTITION	SCRANTON		STAINLESS	HAMMERED STEEL		RENATA OLIVEIRA-renata@archgroup.com
H	INTERIOR FINISH MATERIAL - SPECIALTY	WF-1	WINDOW FILM CONFERENCE ROOM	DECORATIVE FILMS	SD-FS0667-WF	SKYLINE		59" WIDE	AARON LOTINSKY-alotinsky@decorativefilm.com
H	INTERIOR FINISH MATERIAL - SPECIALTY	CR-1	CHAIR RAILS-BULLPEN, WAITING ROOM	ROPPE	PINNACLE	700 SERIES	193 BLACK BROWN		TABITHA MYERS 806-548-4067
H	INTERIOR FINISH MATERIAL - SPECIALTY	CG-1	CORNER GUARD	FRY REGLET	RCT-50	RADIUS CORNER TRIM	SILVER SATIN	1/2"	
H	INTERIOR FINISH MATERIAL - SPECIALTY	DL-1	PLASTIC LAMINATE-DOORS	WILSONART	8286K-05	TIMBERGRAIN FINISH	WALNUT PB EMBER		JAMIE BORGER-jamie.borger@wilsonart.com
H	INTERIOR FINISH MATERIAL - SPECIALTY	TR-1	SCHLUTER TRIM-RESTROOMS	RONDEC			SATIN ANODIZED ALUMINUM TRIM		
H	INTERIOR FINISH MATERIAL - SPECIALTY	RS-1	MECHANICAL SOLAR SHADES, CONCEALED	MECHOSHADES	ECOVEIL	1550 SERIES	1366 EGGSHELL	3% OPEN	KATHY MACASA-kathym@mechoshade.com 917-658-3202
H	INTERIOR FINISH MATERIAL - SPECIALTY	RS-2	MANUAL SOLAR SHADE, CONCEALED	MECHOSHADES	ECOVEIL	MECHO15	1366 EGGSHELL	3% OPEN	KATHY MACASA-kathym@mechoshade.com 917-658-3202

FINISH GENERAL NOTES

1 REFER TO FINISH SELECTION SUMMARY (SPECIFICATIONS SECTION 01 12 00 AND SHEET A7.30) FOR EXPLANATION OF FINISH DESIGNATIONS.

2 REFER TO PLANS, ELEVATIONS, AND DETAILS FOR EXTENT OF FINISHES WHEN MULTIPLE FINISHES ARE INDICATED IN THE SCHEDULE.

3 INTERIOR FINISHES MATERIALS AND THE INSTALLATION PROCESS SHALL BE IN COMPLIANCE WITH ALL LOCAL GOVERNING CODES INCLUDING BUT NOT LIMITED TO FLAMMABILITY RATINGS AND VOLATILE ORGANIC COMPOUND REQUIREMENTS.

4 OWNER TO APPROVE ALL FINISHES PRIOR TO CONSTRUCTION. CONTRACTOR AND SUB-CONTRACTORS TO SUBMIT SAMPLES FOR APPROVAL.

5 CONTRACTOR IS RESPONSIBLE FOR CROSS REFERENCING FINISH NOTES BETWEEN PLANS, REFLECTED CEILING PLANS, AND ELEVATIONS. IF A DISCREPANCY IS FOUND, CONTACT ARCHITECT FOR INSTRUCTION IMMEDIATELY.

6 CONTRACTOR IS TO PROVIDE FLOOR LEVELING AS REQUIRED. PROVIDE FLOOR TOLERANCES ACCEPTABLE FOR FLOORING INSTALLATION AS REQUIRED BY THE ADA, TAS, AND MANUFACTURER'S SPECIFICATIONS.

7 CONTRACTOR TO ENSURE PROPER FLOOR PREP AND PROTECTION OF CONCRETE THAT IS TO RECEIVE STAINING BEFORE AND AFTER STAINING PROCESS.

8 CONTRACTOR SHALL INSPECT ALL SURFACES SCHEDULED TO RECEIVE NEW FINISH MATERIALS AND VERIFY THAT CONDITIONS ARE SUITABLE FOR APPLICATION OF FINISH MATERIAL PRIOR TO INSTALLATION INCLUDING, BUT NOT LIMITED TO, PROVIDING A SURFACE THAT IS DRY, CLEAN AND FREE OF OIL, GREASE, MILDEW, LOOSE AND FLAKING PAINT AND OR ANY OTHER FOREIGN SUBSTANCES. IF NOT, CONTACT ARCHITECT FOR DIRECTION.

9 ALL FLOOR TRANSITIONS TO OCCUR BELOW THE CENTER OF DOORS UNLESS NOTED OTHERWISE. ARCHITECT TO APPROVE TRANSITION STRIPS PRIOR TO CONSTRUCTION.

10 REFER TO A7.30 FOR FLOOR TRANSITION DETAILS.

11 PROVIDE STONE OR SOLID SURFACE THRESHOLD BETWEEN CARPET AND TILE. PROVIDE RESILIENT TRANSITION STRIP BETWEEN CARPET AND RESILIENT FLOORING/EXPOSED CONCRETE LOCATIONS. ARCHITECT TO APPROVE TRANSITION STRIP PRIOR TO CONSTRUCTION.

12 ALL FLOOR TILE TO BE FLUSH AND NON-SLIP. PROVIDE TRANSITION MATERIALS AS SHOWN.

13 PAINT ALL WALL AND CEILING ELECTRICAL AND ACCESS PANELS TO MATCH ADJACENT FINISH.

14 REFER TO REFLECTED CEILING PLANS AND ELEVATIONS FOR ALL ACCENT FURR DOWN FINISHES.

15 REFER TO WALL PROTECTION PLANS FOR WALL PROTECTION AND CORNER GUARD LOCATIONS.

16 CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY SURFACES NOT HAVING A FINISH SPECIFIED PRIOR TO CONSTRUCTION.

17 REFER TO ELEVATIONS FOR ADDITIONAL FINISH INFORMATION RELATING TO ALL MILLWORK.

18 REFER TO REFLECTED CEILING PLANS FOR NOTES AND DETAILS.

19 REFER TO SHEET A9.20 FOR MILLWORK DETAILS.

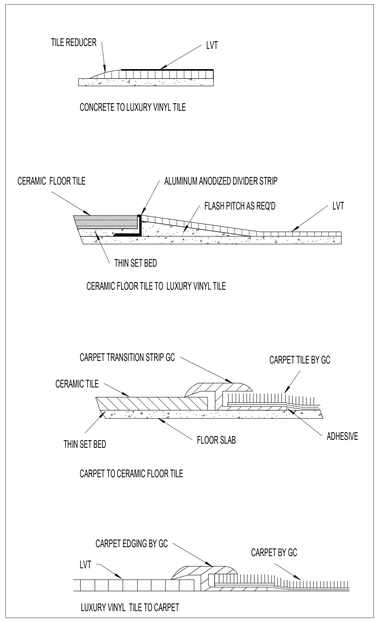
20 ALIGN WALL TILE IN ALL RESTROOMS WITH FLOOR TILE WHERE APPLICABLE.

21 ALL WALLS TO RECEIVE PNT-X UNLESS NOTED OTHERWISE.

22 HOLLOW METAL DOOR AND FRAMES TO BE PAINTED PNT-X.

23 ALL WINDOWS AT TENANT FINISH OUT AREAS TO HAVE WINDOW TREATMENT WT-X.

24 RUBBER BASE TO BE STRAIGHT AT CARPET AS SCHEDULED AND COVED AT RESILIENT LOCATIONS.



1 **FLOOR TRANSITION DETAILS**
12" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

Checked By:
KR

Sheet Title:
INTERIOR FINISH SELECTION SCHEDULE

Drawing No.
A7.30

5/7/2026 1:47:45 PM

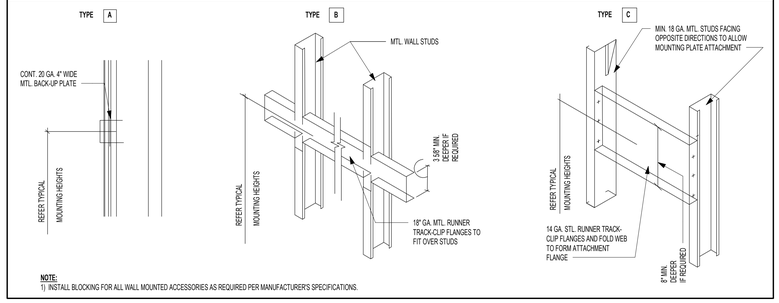
TOILET ACCESSORY MOUNTING DIAGRAMS

TYPE T.A.	A01 TOILET PAPER DISPENSER	A02 36" GRAB BAR	A03 42" GRAB BAR	A04 MIRROR	A05 SOAP DISPENSER	A06 SANITIZER DISPENSER	A07 PAPER TOWEL DISPENSER	A08 PAPER TOWEL & TRASH DISPENSER	A09 SANITARY NAPKIN DISPOSAL	A10 COAT HOOK	A11 MOP / BROOM HOLDER	A12 BABY CHANGING STATION	A13 URINAL SCREEN	A14 TRASH RECEPTACLE	A15 WARM HAND DRYER	A16 TOILET SEAT COVER DISPENSER	A17 36" WALL SHELF	CR-1 CHAIR RAIL	A18 FULL HEIGHT MIRROR	A29 MIRROR
CEILING / FINISH	7" - 9" 15" MIN.	REAR WALL GRAB BAR 3' - 0" MIN. 1' - 0" MIN. 2' - 0" MIN. 33" - 36"	SIDE WALL GRAB BAR 4' - 6" MIN. 3' - 6" MIN. 1' - 0" MAX. 33" - 36"	1' - 6" 3' - 0" 40" MAX	44" MAX. TO SPOUT	44" MAX. TO SPOUT	44" - 48" MAX		15" MIN.	48" MAX			2' - 0" 5' - 2" 10" 4' - 0" MAX	2' - 6" MIN.	4' - 0" TO C.L.	MAX. 4' - 0"	6' - 0"	36" MAX	2' - 0" 5' - 0" 1' - 4"	4' - 0" 2' - 0" 4' - 4"
PLAN																				
MOUNTING TYPE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	RECESSED	RECESSED	SURFACE	SURFACE	SURFACE	RECESSED	WALL HUNG	SEMI-RECESSED	SEMI-RECESSED	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
MANUF.	ROYCE ROLLS RINGER	BOBRICK	BOBRICK	BOBRICK	ZEP	ZEP	BOBRICK	BOBRICK	ROYCE ROLLS RINGER	BOBRICK	BOBRICK	KOALA KARE	MATCH TOILET PARTITIONS	BOBRICK	XCELERATOR HAND DRYER MODEL 40502	ROYCE ROLLS RINGER	ULINE	KOFFLER	N/A	BOBRICK
MODEL	STP-2	B6806.99x36	B-6806.99x42	B-290.1836	ZEP R15 - Q60801	ZEP-40-C33110	B-262	B-38034	SNR	B-542	B-239 x 34	KB300	-	B-3644	MODEL 40502	TSCD	BL-3439 36"X12"X10" SS FINISH	FLEXIBLE PAINTABLE WOOD GRAIN FLAT CHAIR RAIL #A251	FRAMELESS WALL MOUNTED	B-290.2448
FURNISHED	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI
COMMENTS	VERIFY BUILDING STANDARD TOILET PAPER TISSUE IS COMPATIBLE WITH TOILET ACCESSORY					VERIFY BUILDING STANDARD HAND SANITIZER IS COMPATIBLE WITH TOILET ACCESSORY	VERIFY BUILDING STANDARD PAPER TOWEL IS COMPATIBLE WITH TOILET ACCESSORY	VERIFY COUNTY STANDARD PAPER TOWEL IS COMPATIBLE WITH TOILET ACCESSORY		PROVIDE MOUNTING HARDWARE TO SELECTED TOILET PARTITION FINISH					CONTRACTOR TO INCLUDE AND INSTALL WITH RECESSED ADA KIT FROM SAME MANUFACTURER			CONTRACTOR TO PAINT CHAIR RAIL TO MATCH WALL COLOR INSTALLED		HUNG HORIZONTALLY OVER GANG HAND WASHING FIXTURE

LOCKER ROOM / SHOWER ACCESSORY MOUNTING DIAGRAMS

TYPE T.A.	A19 SHOWER CURTAIN ROD	A20 SHOWER CURTAIN	A21 SHOWER GRAB BARS	A22 SHOWER SEAT	A23 SOAP HOLDER	A24 TOWEL BAR	A25 TOWEL / COAT PIN	A26 PREFABRICATED SHOWER UNIT	A27 LOCKER	A28 ADA BENCH	A30 LOCKER BENCH
CEILING / FINISH	85" MIN.	6' - 0"	CONTROL WALL 4" MAX 36" 33"-36" TO TOP OF GRAB BAR 3'-4"	18"	48" MAX.	48" MAX.	48" MAX.				
FLOOR											
PLAN			18" CONTROL WALL	15" 1'-0" MAX 5'-10" 22"-25" 2 1/2" MAX 9" MAX							
MOUNTING TYPE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
MANUF.	BOBRICK	BOBRICK	BOBRICK	BOBRICK	BOBRICK	BOBRICK	BOBRICK	AQUATIC	ZEP	BRADLEY	BRADLEY
MODEL	207	204-1	B-6861	B-918116	B-4380	B-676x24	B-9542	1383BFSCST - ACCESSIBLE SHOWERS	ZEP-40-C33110	PHENOLIC PEDESTAL BENCH	PHENOLIC PEDESTAL BENCH
FURNISHED	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI
COMMENTS	VERIFY SHOWER WIDTH COMPATIBILITY	CONTRACTOR TO PROVIDE BOBRICK SHOWER CURTAIN HOOKS	CONTRACTOR TO PROVIDE VERTICAL GRAB BAR BOBRICK B-6806 WITH SHOWER GRAB BARS				VERIFY BUILDING STANDARD HAND SANITIZER IS COMPATIBLE WITH TOILET ACCESSORY	VERIFY ROUGH OPENING IS COMPATIBLE WITH SHOWER SHELL	VERIFY BUILDING STANDARD HAND SANITIZER IS COMPATIBLE WITH TOILET ACCESSORY	18" WIDE x 36" LENGTH x 17" HEIGHT	18" WIDE x 48" LENGTH x 17" HEIGHT

ACCESSORY MOUNTING DETAILS



NOTE:
1) INSTALL BLOCKING FOR ALL WALL MOUNTED ACCESSORIES AS REQUIRED PER MANUFACTURER'S SPECIFICATIONS.

TECHNOLOGY EQUIPMENT MOUNTING DIAGRAMS

TYPE ACC.	2PCR 2-POST CABLE RACK	TC-1 TIME CLOCK
ELEVATION		
PLAN		
ULTILITY CONNECTIONS	POWER / DATA	POWER / DATA
MANUF.	REFER TECH DRAWINGS	CRONOS
MODEL	REFER TECH DRAWINGS	TIME CLOCK (MATCH BUILDING STANDARD)
MOUNTING TYPE	FLOOR	SURFACE
DESIGNATION	OFOI	OFOI

ELECT. WATER COOLER MOUNTING

TYPE	EWC-1 NEW TWO-TIER DRINKING FOUNTAIN W/ BOTTLE FILLER	EWC-2 STAND ALONE BOTTLE FILLING STATION
PLAN	4' - 0" MAX	
ELEVATION		
MANUF.	ELKAY WATER COOLER	ELKAY WATER COOLER
MODEL	EZH20 BOTTLE FILLING STATION WITH BI-LEVEL ADA COOLER - LZSTL8WSVRSK	EZH20 BOTTLE FILLING STATION - LZWSBK
MOUNTING TYPE	SURFACE	SURFACE
COMMENTS	DUAL HANDS-FREE ACTIVATION, FILTERED & REFRIGERATED WATER, STAINLESS STEEL FINISH	HANDS-FREE ACTIVATION, FILTERED & REFRIGERATED WATER, STAINLESS STEEL FINISH

FIXTURE MOUNTING DIAGRAMS

DISPENSER LOCATIONS	REAR WALL GRAB BAR FOR WATER CLOSET	SIDE WALL GRAB BAR FOR WATER CLOSET	WATER CLOSET HEIGHT	LAVATORY / SINK	WALL HUNG LAVATORY / SINK	URINAL / URINAL SCREEN	ELECTRIC WATER COOLER
1 1/2" MIN. 12" MIN. 15" MIN. 3/4" 48" MAX. 33" - 36"	36" MIN. 24" MIN. 12" MIN. 33" - 36"	NOTE: FLUSH VALVE TO BE BELOW GRAB BAR WHERE GRAB BAR IS SCHEDULED. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS. 39" - 41" 12" MAX 42" MIN 54" MIN 33" - 36" 39" - 41" 18"	17" - 19" - ADULT 11" - 17" - CHILD	MIRROR INSULATE ALL EXPOSED PIPES IF SKIRT IS NOT PROVIDED AT H.C. SINKS 27" MIN 34" MAX TO RIM 29" MAX 3/4" 11" MIN	MIRROR INSULATE ALL EXPOSED PIPES AT H.C. SINKS 2'-3" MIN 32" MIN TO RIM 34" MAX 29" MAX 3/4" @ H.C. 6" MIN	30" 42" 12" 4"	27" MIN 3'-0" MAX @ H.C. 6" MIN 6" MAX.

OUTLET / TELEVISION MOUNTING DIAGRAMS

OUTLET	ABOVE & BELOW COUNTERTOP OUTLETS	ITV-X TV MOUNTING BRACKET (INTERACTIVE)	LED-X TV MOUNTING BRACKET (LED TELEVISION)	ITV-X INTERACTIVE TV CONNECTIONS	LED-X LED TELEVISION CONNECTIONS	LED-X LED TELEVISION
ELEVATION	12" BELOW COUNTERTOP W.O. 42" ABOVE COUNTERTOP - U.N.O.	5' - 0" AFF	7' - 6" AFF	5' - 0" 6' - 6"	7' - 6"	REF. ELEVATION
MOUNTING DETAIL		TELEVISIONS MOUNTS WILL BE FURNISHED AND INSTALLED BY OWNER (OFOI). COORDINATE TELEVISION MOUNT BLOCKIG WITH SPECIFIC TELEVISION MODEL	TELEVISIONS MOUNTS WILL BE FURNISHED AND INSTALLED BY OWNER (OFOI). COORDINATE TELEVISION MOUNT BLOCKIG WITH SPECIFIC TELEVISION MODEL	TV WILL BE FURNISHED AND INSTALLED BY TENANT. TV WALL MOUNT WILL BE FURNISHED AND INSTALLED BY TENANT	TV WILL BE FURNISHED AND INSTALLED BY TENANT. TV WALL MOUNT WILL BE FURNISHED AND INSTALLED BY TENANT	TV WILL BE FURNISHED AND INSTALLED BY TENANT
TYPE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE

MISC. WALL BOARD MOUNTING DIAGRAMS

TYPE	WB-X GLASS DRY ERASE WHITE BOARDS	TB-X ALUMINUM FRAME TACK BOARD	BB LOCKABLE BULLETIN BOARD	XX-X NOT USED
ELEVATION	LENGHT REF ELEV. 4' - 0" 3' - 0" 5' - 0"	LENGHT REF ELEV. 4' - 0" 3' - 0" 5' - 0"	4' - 0" 4' - 0" 3' - 0" 5' - 0"	
MOUNTING DETAIL	"X" DESIGNATION INDICATES DESIGNED LENGTH - WB-8 = 4'H X 8'L LONG BOARD	"X" DESIGNATION INDICATES DESIGNED LENGTH - TB-8 = 4'H X 8'L LONG BOARD		
MANUF.	MDC WALL	CLARIDGE CALYX	WADDELL	
MODEL	MDC GLASS	CONCEPT TACKBOARD	MESSENGER CASE #77 - 4848	
MOUNTING TYPE	SURFACE	SURFACE	SURFACE	
COMMENTS	INCLUDE MAGNETIC MARKER HOLDER AND 2X MAGNETS ACCESSORIES	ALUMINUM FRAME WITH 1686 FLANNEL GUILFORD OF MAINE FINISH	EXPRESSO OAK FINISH FRAME	

LIFE SAFETY ACCESSORY MOUNTING DIAGRAMS

EQUIPMENT	FE FIRE EXTINGUISHER	FEC FIRE EXTINGUISHER CABINET	AED AUTOMATIC DEFIBRILATOR CABINET	FA FILE ALARM PULL BOX	CR CARD READER	KB KNOX BOX
ELEVATION	48" MAX.	48" MAX.	40" MAX.	48"	CR 48"	3' - 4"
PLAN					CR	
TYPE	SURFACE	RECESSED	RECESSED	SURFACE	SURFACE	RECESSED
FURNISHED	CFCI	CFCI	CFCI	CFCI	CFCI	CFCI
OUTLETS	N/A	N/A	POWER	LOW-VOLTAGE POWER	LOW-VOLTAGE POWER	N/A
MANUF.	LARSEN	LARSEN	ZOLL	LOW-VOLTAGE POWER	LOW-VOLTAGE POWER	KNOX
MODEL	MP-20	2712-RK	80000814	LOW-VOLTAGE POWER	LOW-VOLTAGE POWER	VERIFY WITH OWNER
COMMENTS	CONTRACTOR TO PROVIDE ALL HARDWARE TO MOUNT EXTINGUISHER TO WALL. CONFIRM WITH BUILDING FACILITIES PROPER TYPE AND MANUFACTURER OF FIRE EXTINGUISHER	CONTRACTOR TO CONFIRM WITH BUILDING FACILITIES PROPER TYPE AND MANUFACTURER OF FIRE EXTINGUISHER	CONTRACTOR TO PROVIDE AED DEVICE AND CABINET. CABINET 1436F12 SEMI-RECESSED CABINET WITH SS FINISH, AND 1-1/2" SQUARE TRIM AND SILKSCREEN AED GRAPHIC. CONFIRM WITH BUILDING FACILITIES PROPER TYPE AND MANUFACTURER OF AED DEVICE. PROVIDE POWER AT BOX PER MANUFACTURER'S INSTRUCTIONS.	CONTRACTOR TO PROVIDE FIRE ALARM DEVICE AND ASSOCIATED WIRING BACK TO FIRE ALARM PANEL. CONFIRM WITH BUILDING FACILITIES PROPER TYPE AND MANUFACTURER OF FA DEVICE AND COMPATABILITY OF FIRE ALARM PANEL	REFER TO TECHNOLOGY DRAWINGS, AND DOOR HARDWARE SPECIFICATION	

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr andrade architects
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

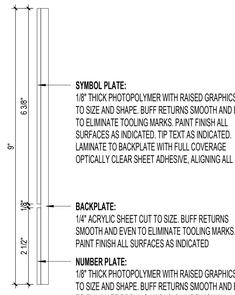
Drawn By:
KR

Checked By:
KR

Sheet Title:
MOUNTING SCHEDULE

Drawing No.
A7.40

5/7/2026 1:47:46 PM



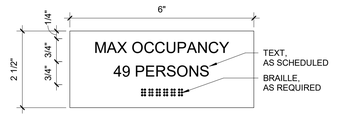
12 RESTROOM SIGNAGE SECTION
6" = 1'-0"

SIGN SCHEDULE GENERAL NOTES

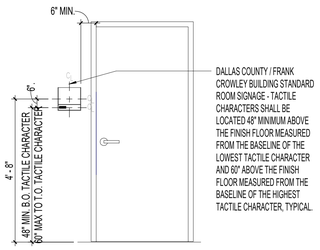
Key Name	Comments
1	CONTRACTOR TO VERIFY ALL SIGN INFORMATION AND FINISHES WITH ARCHITECT AND OWNER PRIOR TO FABRICATION
2	ALL INTERIOR SIGNS ARE TO BE VANDAL RESISTANT, FLUSH MOUNTED, AND VINYL TAPED MOUNTED TO THE CLEAN FACE OF FINISHED PAINTED WALL, TILE, OR GLASS AS INDICATED. ALL EXPOSED HARDWARE SHALL BE TAMPER PROOF FASTENERS
3	VERIFY NUMBERS OF PERSONS FOR MAXIMUM OCCUPANCY WITH ARCHITECT AND AHJ PRIOR TO FABRICATION OF SIGNS.
4	SIGNS MOUNTED TO GLASS TO HAVE BACKER PIECE ON OPPOSITE SIDE OF GLASS TO CONCEAL ADHESIVE. BACKER PLATE TO MATCH NAME AND NUMBER FACEPLATE
5	ALL SIGNAGE SHALL MATCH EXISTING BUILDING SIGNAGE U.N.O. AND APPROVED BY THE ARCHITECT AND OWNER
6	ALL SIGN TYPOGRAPHY SHALL BE HELVETICA NEUE LT STD 67 MEDIUM CONDENSED WITH 94% HORIZONTAL SCALE AND KERNED +35%
7	GRADE 2 BRAILLE SHALL BE USED. HEIGHT, KERNING & LEADING PER REQUIREMENTS OF THE DOJ'S 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
8	INDIVIDUAL SPACING OF EACH LETER NEEDS TO BE EVALUATED. KERN ALL COPY SO THAT EACH CHARACTER IS OPTICALLY CENTERED BETWEEN THE CENTER OF EACH OF THE SURROUNDING CHARACTERS
9	FABRICATOR TO PROVIDE SHOP DRAWINGS OF THE FINAL DESIGNS FOR EACH OF THE SIGN TYPES
10	FABRICATOR MUST SUBMIT A FULL ALPHABET OF 1" LETTERS AND NUMERALS FOR APROVAL PRIOR TO FABRICATION
11	FABRICATOR TO VERIFY MOUNTING CONDITIONS AND PROVIDE DETAIL DRAWING FOR EACH MOUNTING SITUATION PRIOR TO FABRICATION. FABRICATOR MUST OBTAIN APPROVAL FROM THE ARCHITECT AND OWNER FOR PLACEMENT PRIOR TO FABRICATION
12	FINAL QUANTITIES, INCLUDING ATTIC STOCK, OF ALL SIGNS TO BE VERIFIED BY FABRICATOR BEFORE FABRICATION BEGINS
13	PROVIDE LEVEL 5 GYP BD WALL FINISH FOR VINYL WALL COVERING INSTALLATION. VERIFY WITH ARCHITECT PAINTED WALL COLOR TO COORDINATE WITH VINYL WALL COVERING.

SIGNAGE SCHEDULE1

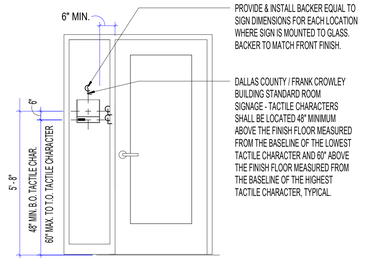
SIGN NUMBER	BUILDING NAME	ROOM NUMBER	ROOM NAME	SIGNAGE TEXT ON SIGN	ROOM NUMBER ON SIGN	SIGN TYPE	COMMENTS
S100F	ADMINISTRATION						
S101	ADMINISTRATION	101	UNI-SEX RR	UNISEX	101	E	
S102	ADMINISTRATION	102	MEN PUBLIC RR	MEN	102	C	
S103	ADMINISTRATION	103	WOMEN PUBLIC RR	WOMEN	103	D	
S104	ADMINISTRATION	104	KITCHEN	KITCHEN	104	A	
S105	ADMINISTRATION	105	PANTRY	PANTRY	105	A	
S106	ADMINISTRATION	109	MEDIA ROOM	COMMUNITY	106	B	
S106H	ADMINISTRATION						
S107	ADMINISTRATION	107	VESTIBULE	VESTIBULE	107	A	
S108	ADMINISTRATION	108	COMMUNITY ROOM FURNITURE STORAGE	FURNITURE STORAGE	108	A	
S109	ADMINISTRATION	109	MEDIA ROOM	MEDIA	109	A	
S110	ADMINISTRATION	110	WELLNESS ROOM	WELLNESS	110	A	
S111	ADMINISTRATION	111	WAITING ROOM	WAITING AREA	111	A	
S111A		100	LOBBY / GALLERY			B	
S111B	ADMINISTRATION	120	OPEN OFFICE	OPEN OFFICE	120	A	
S111C	ADMINISTRATION	111	WAITING ROOM	WAITING AREA	111	A	
S112	ADMINISTRATION			CORRIDOR	112	A	
S113	ADMINISTRATION	113	STORAGE	STORAGE	113	A	
S115	ADMINISTRATION	115	COMMISSIONER'S RR	COMMISSIONER'S RESTROOM	115	E	
S117	ADMINISTRATION	117	COMMISSIONER'S OFFICE	COMMISSIONER	117	A	
S120G	ADMINISTRATION				120G		
S122	ADMINISTRATION	122	WORKROOM / KITCHENETTE	WORKROOM/KITCHENETTE	122	A	
S123	ADMINISTRATION	123	ACCOUNTANT OFFICE	ACCOUNTANT	123	A	
S124	ADMINISTRATION	124	ROAD MANAGER OFFICE	ROAD MANAGER	124	A	
S125	ADMINISTRATION	125	SUPERINTENDENT'S OFFICE	SUPERINTENDENT	125	A	
S125A	ADMINISTRATION	125	SUPERINTENDENT'S OFFICE	SUPERINTENDENT	133	A	
S126	ADMINISTRATION	126	SUPERINTENDENT'S RR	SUPERINTENDENT'S RESTROOM	126	E	
S127	ADMINISTRATION	127	CONFERENCE ROOM	CONFERENCE ROOM	127	B	
S127B		127	CONFERENCE ROOM			B	
S130	ADMINISTRATION	130	BULLPEN	BULLPEN	130	B	
S130A		120	OPEN OFFICE			B	
S133	ADMINISTRATION	133	ELECTRICAL	ELECTRICAL	133	A	
S134	ADMINISTRATION	134	MDF	MDF	134	A	
S135	ADMINISTRATION	135	LAUNDRY / CUSTODIAL	LAUNDRY/CUSTODIAL	135	A	
S137	ADMINISTRATION	137	STOCK ROOM	STOCK ROOM	137	A	
S145	ADMINISTRATION	145	WOMEN'S LOCKER ROOM	WOMEN'S LOCKER	145	D	
S146	ADMINISTRATION	144	VESTIBULE	WOMEN	146	D	
S147	ADMINISTRATION	147	MEN'S RR	MEN	147	C	
S148	ADMINISTRATION	148	MEN'S LOCKER ROOM	MEN'S LOCKER	148	C	



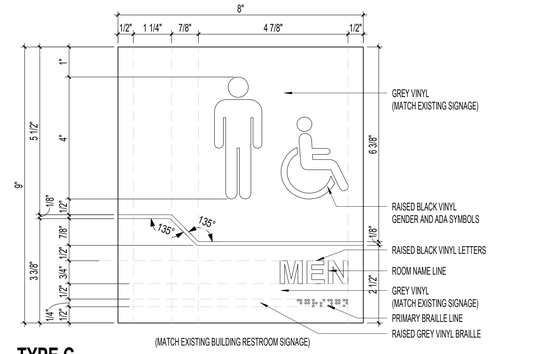
8 TYPE F
6" = 1'-0"



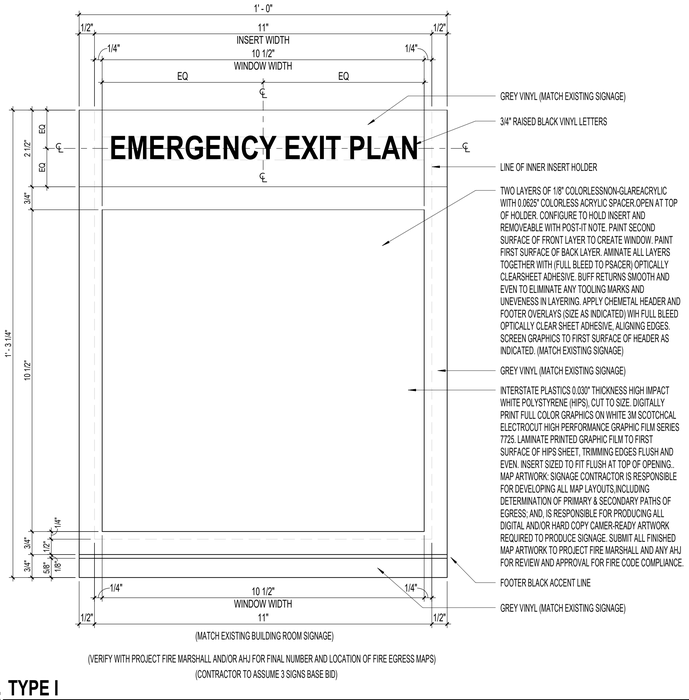
6 SIGN MOUNTING DETAIL
1/2" = 1'-0"



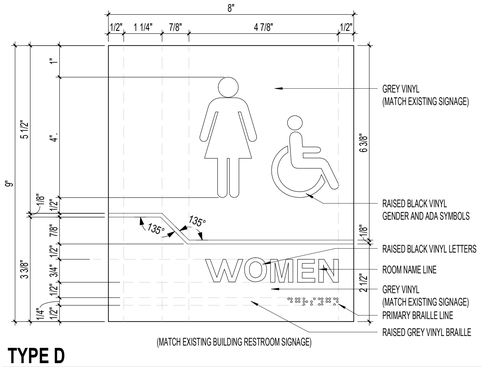
5 SIDELITE DOOR SIGN MOUNTING TYPICAL
1/2" = 1'-0"



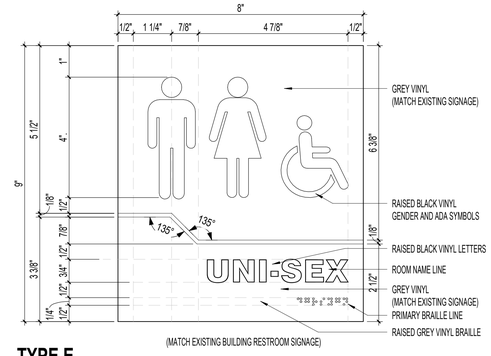
3 TYPE C
6" = 1'-0"



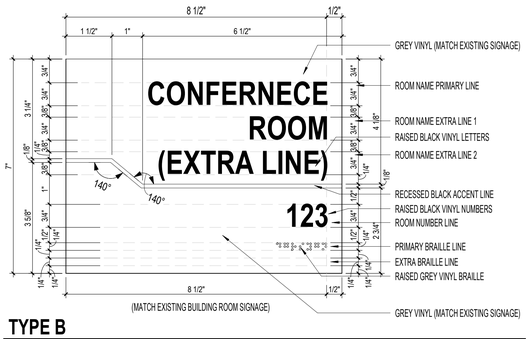
15 TYPE I
6" = 1'-0"



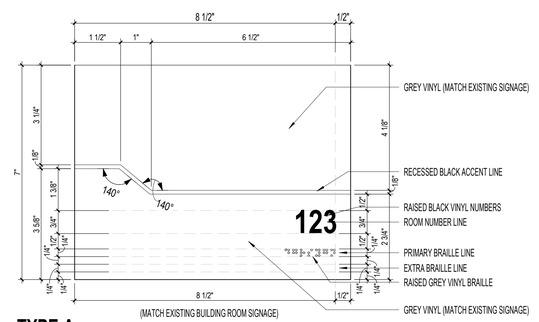
4 TYPE D
6" = 1'-0"



7 TYPE E
6" = 1'-0"



2 TYPE B
6" = 1'-0"



1 TYPE A
6" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

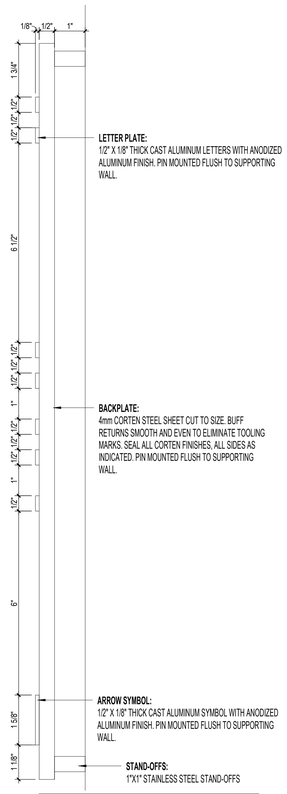
Drawn By:
LC

Checked By:
KR

Sheet Title:
SIGNAGE SCHEDULE AND DETAILS

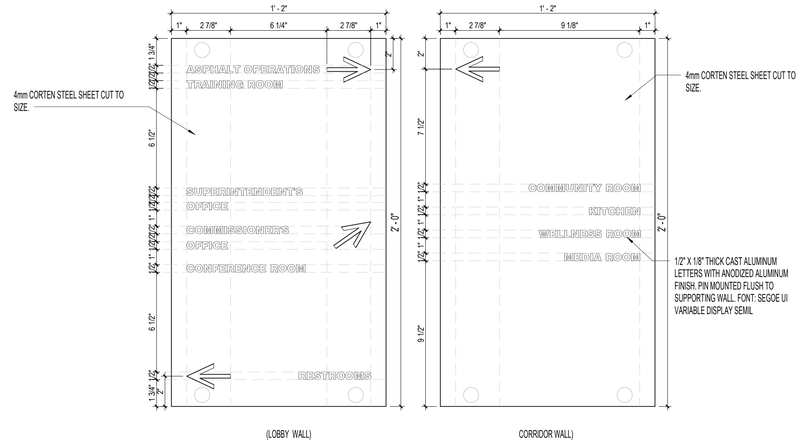
Drawing No.
A7.50

5/7/2026 1:47:48 PM



INSTALLATION:
FASTEN SIGN ON 1" STAND-OFF TO WALL. LOCATE ON CORNER OF WALL. U.N.O. LOCATE 40" OFF GROUND TO CENTERLINE OF PLAQUE

7 DIRECTORY SECTION
6" = 1'-0"



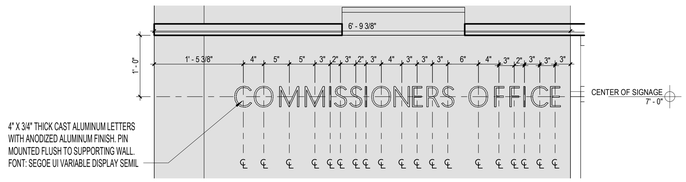
(LOBBY WALL)

(CORRIDOR WALL)

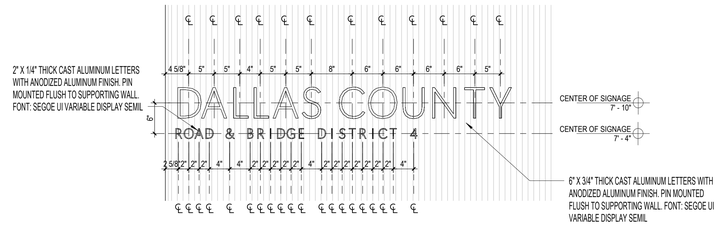
8 DIRECTORY
3" = 1'-0"

SIGN SCHEDULE GENERAL NOTES

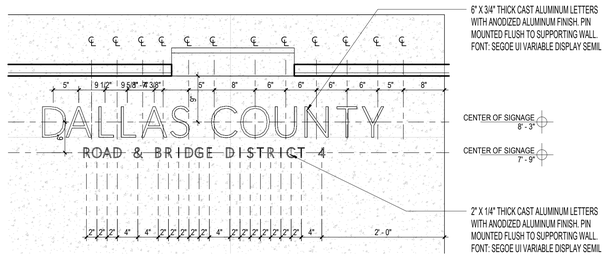
Key Name	Comments
1	CONTRACTOR TO VERIFY ALL SIGN INFORMATION AND FINISHES WITH ARCHITECT AND OWNER PRIOR TO FABRICATION
2	ALL INTERIOR SIGNS ARE TO BE VANDAL RESISTANT, FLUSH MOUNTED, AND VINYL TAPED MOUNTED TO THE CLEAN FACE OF FINISHED PAINTED WALL, TILE, OR GLASS AS INDICATED. ALL EXPOSED HARDWARE SHALL BE TAMPER PROOF FASTENERS
3	VERIFY NUMBERS OF PERSONS FOR MAXIMUM OCCUPANCY WITH ARCHITECT AND AHJ PRIOR TO FABRICATION OF SIGNS.
4	SIGNS MOUNTED TO GLASS TO HAVE BACKER PIECE ON OPPOSITE SIDE OF GLASS TO CONCEAL ADHESIVE. BACKER PLATE TO MATCH NAME AND NUMBER FACEPLATE
5	ALL SIGNAGE SHALL MATCH EXISTING BUILDING SIGNAGE U.N.O. AND APPROVED BY THE ARCHITECT AND OWNER
6	ALL SIGN TYPOGRAPHY SHALL BE HELVETICA NEUE LT STD 67 MEDIUM CONDENSED WITH 94% HORIZONTAL SCALE AND KERNED +35%
7	GRADE 2 BRAILLE SHALL BE USED. HEIGHT, KERNING & LEADING PER REQUIREMENTS OF THE DOJ'S 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
8	INDIVIDUAL SPACING OF EACH LETER NEEDS TO BE EVALUATED. KERN ALL COPY SO THAT EACH CHARACTER IS OPTICALLY CENTERED BETWEEN THE CENTER OF EACH OF THE SURROUNDING CHARACTERS.
9	FABRICATOR TO PROVIDE SHOP DRAWINGS OF THE FINAL DESIGNS FOR EACH OF THE SIGN TYPES
10	FABRICATOR MUST SUBMIT A FULL ALPHABET OF 1" LETTERS AND NUMERALS FOR APROVAL PRIOR TO FABRICATION
11	FABRICATOR TO VERIFY MOUNTING CONDITIONS AND PROVIDE DETAIL DRAWING FOR EACH MOUNTING SITUATION PRIOR TO FABRICATION. FABRICATOR MUST OBTAIN APPROVAL FROM THE ARCHITECT AND OWNER FOR PLACEMENT PRIOR TO FABRICATION
12	FINAL QUANTITIES, INCLUDING ATTIC STOCK, OF ALL SIGNS TO BE VERIFIED BY FABRICATOR BEFORE FABRICATION BEGINS
13	PROVIDE LEVEL 5 GYP BD WALL FINISH FOR VINYL WALL COVERING INSTALLATION. VERIFY WITH ARCHITECT PAINTED WALL COLOR TO COORDINATE WITH VINYL WALL COVERING.



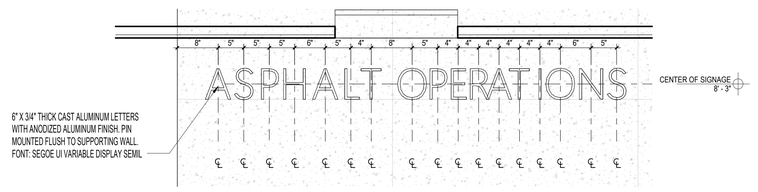
6 WAITING AREA SIGNAGE ELEVATION
1" = 1'-0"



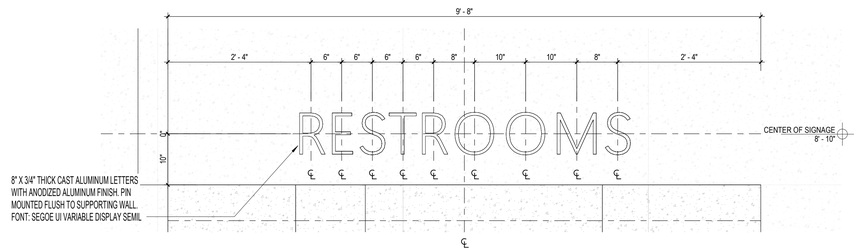
2 LOBBY SIGNAGE ELEVATION
1" = 1'-0"



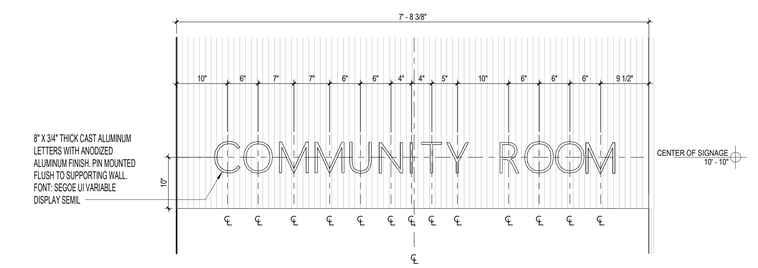
3 OPEN OFFICE SIGNAGE ELEVATION
1" = 1'-0"



4 OPEN OFFICE SIGNAGE ELEVATION
1" = 1'-0"



5 RESTROOM ELEVATION
1" = 1'-0"



1 LOBBY SIGNAGE ELEVATION
1" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
LC

Checked By:
KR

Sheet Title:
SIGNAGE SCHEDULE AND DETAILS

Drawing No.
A7.51

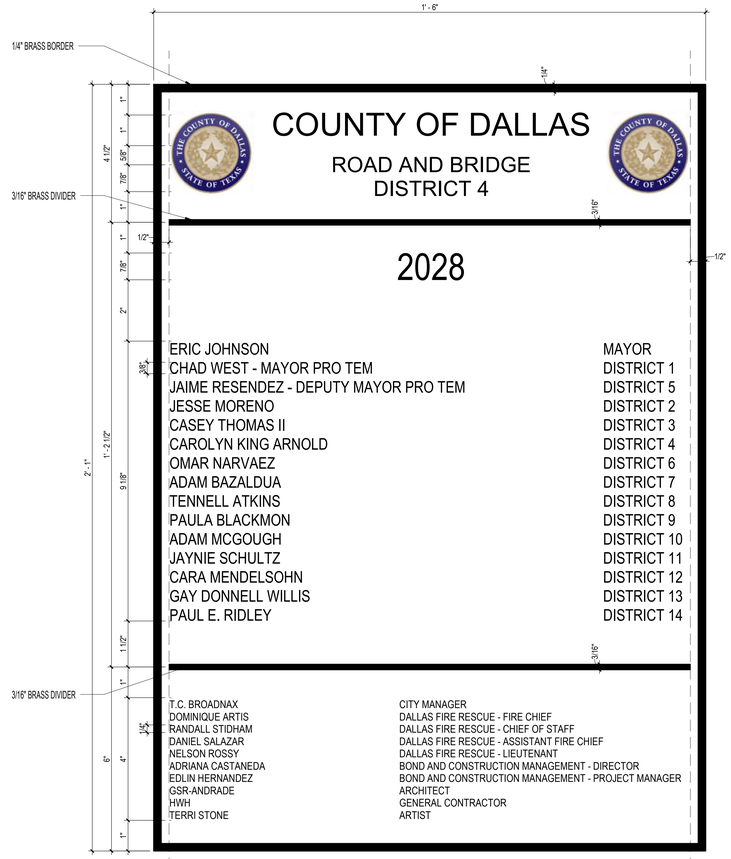
5/7/2026 1:47:50 PM

SIGN SCHEDULE GENERAL NOTES

Key Name	Comments
1	CONTRACTOR TO VERIFY ALL SIGN INFORMATION AND FINISHES WITH ARCHITECT AND OWNER PRIOR TO FABRICATION
2	ALL INTERIOR SIGNS ARE TO BE VANDAL RESISTANT, FLUSH MOUNTED, AND VINYL TAPED MOUNTED TO THE CLEAN FACE OF FINISHED PAINTED WALL, TILE, OR GLASS AS INDICATED. ALL EXPOSED HARDWARE SHALL BE TAMPER PROOF FASTENERS
3	VERIFY NUMBERS OF PERSONS FOR MAXIMUM OCCUPANCY WITH ARCHITECT AND AHJ PRIOR TO FABRICATION OF SIGNS.
4	SIGNS MOUNTED TO GLASS TO HAVE BACKER PIECE ON OPPOSITE SIDE OF GLASS TO CONCEAL ADHESIVE. BACKER PLATE TO MATCH NAME AND NUMBER FACEPLATE
5	ALL SIGNAGE SHALL MATCH EXISTING BUILDING SIGNAGE U.N.O. AND APPROVED BY THE ARCHITECT AND OWNER
6	ALL SIGN TYPOGRAPHY SHALL BE HELVETICA NEUE LT STD 67 MEDIUM CONDENSED WITH 94% HORIZONTAL SCALE AND KERNED +35%
7	GRADE 2 BRAILLE SHALL BE USED. HEIGHT, KERNING & LEADING PER REQUIREMENTS OF THE DOJ'S 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
8	INDIVIDUAL SPACING OF EACH LETER NEEDS TO BE EVALUATED. KERN ALL COPY SO THAT EACH CHARACTER IS OPTICALLY CENTERED BETWEEN THE CENTER OF EACH OF THE SURROUNDING CHARACTERS.
9	FABRICATOR TO PROVIDE SHOP DRAWINGS OF THE FINAL DESIGNS FOR EACH OF THE SIGN TYPES
10	FABRICATOR MUST SUBMIT A FULL ALPHABET OF 1" LETTERS AND NUMERALS FOR APROVAL PRIOR TO FABRICATION
11	FABRICATOR TO VERIFY MOUNTING CONDITIONS AND PROVIDE DETAIL DRAWING FOR EACH MOUNTING SITUATION PRIOR TO FABRICATION. FABRICATOR MUST OBTAIN APPROVAL FROM THE ARCHITECT AND OWNER FOR PLACEMENT PRIOR TO FABRICATION
12	FINAL QUANTITIES, INCLUDING ATTIC STOCK, OF ALL SIGNS TO BE VERIFIED BY FABRICATOR BEFORE FABRICATION BEGINS
13	PROVIDE LEVEL 5 GYP BD WALL FINISH FOR VINYL WALL COVERING INSTALLATION. VERIFY WITH ARCHITECT PAINTED WALL COLOR TO COORDINATE WITH VINYL WALL COVERING.

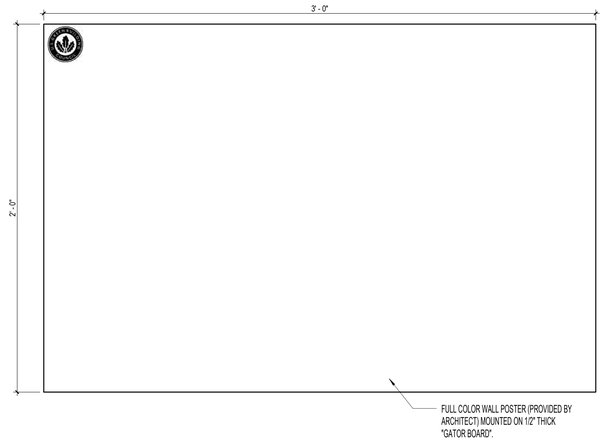
5 NO SMOKING SIGNAGE
6" = 1'-0"

4 LEED PLANT INFORMATION SIGNAGE
6" = 1'-0"

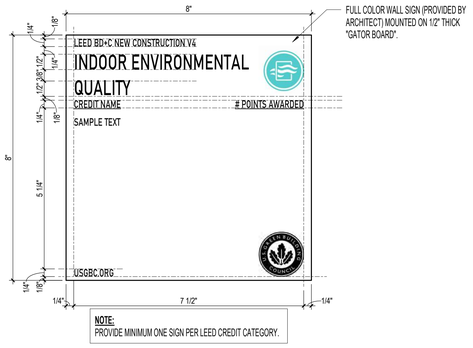


NOTES:
1. LETTERING SHALL BE RAISED BRASS WITH BLACK BACKGROUND
2. PROVIDE VANDAL RESISTANT ANCHORS; FINISH AND COLOR TO MATCH FIELD
3. DFR & CITY OF DALLAS LOGO TO BE RAISED BRASS FINISH
4. GENERAL CONTRACTOR TO VERIFY ALL NAMES AND TITLES ON DEDICATION PLAQUE PRIOR TO MANUFACTURE AND INSTALLATION

1 BUILDING DEDICATION PLAQUE
6" = 1'-0"



3 LEED EDUCATION POSTER
3" = 1'-0"



2 LEED BUILDING EDUCATION SIGNAGE
6" = 1'-0"

gsr | andrade
ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
LC

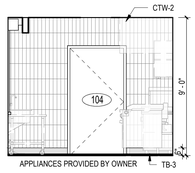
Checked By:
KR

Sheet Title:
SIGNAGE SCHEDULE AND DETAILS

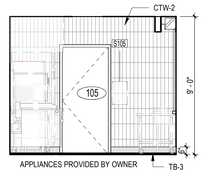
Drawing No.
A7.52

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

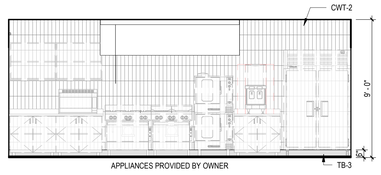
5/7/2026 1:47:51 PM



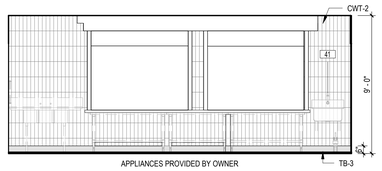
18 KITCHEN 104 EAST
1/4" = 1'-0"



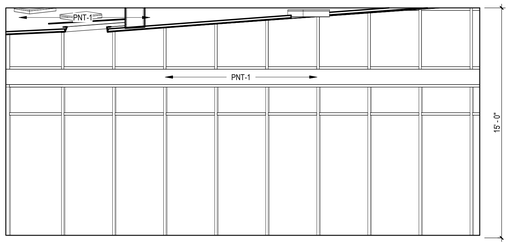
17 KITCHEN 104 WEST
1/4" = 1'-0"



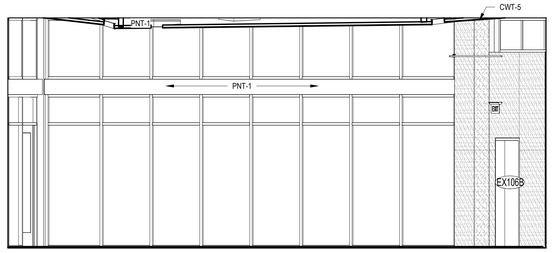
16 KITCHEN 104 SOUTH
1/4" = 1'-0"



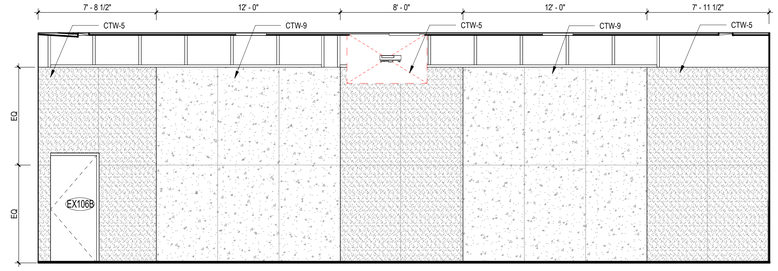
15 KITCHEN 104 NORTH
1/4" = 1'-0"



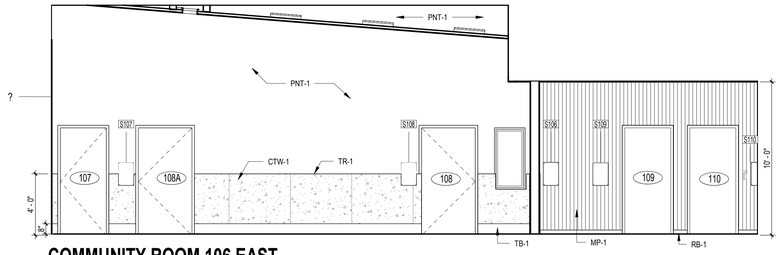
14 COMMUNITY ROOM 106 SOUTHWEST
1/4" = 1'-0"



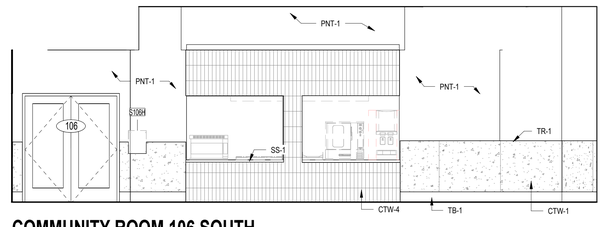
13 COMMUNITY ROOM 106 NORTHWEST
1/4" = 1'-0"



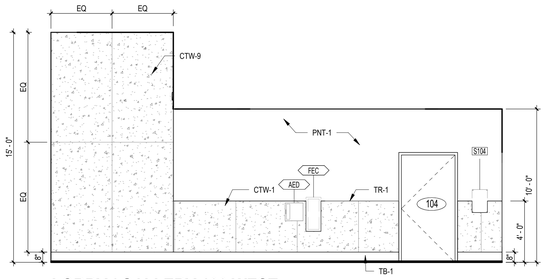
12 COMMUNITY ROOM 106 NORTH
1/4" = 1'-0"



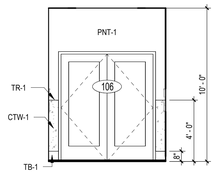
11 COMMUNITY ROOM 106 EAST
1/4" = 1'-0"



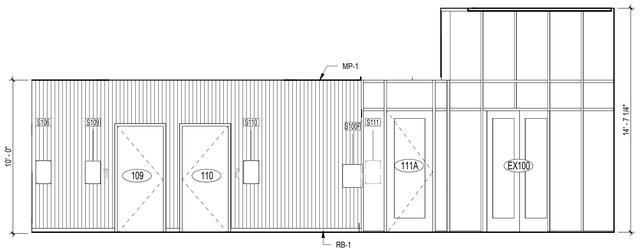
10 COMMUNITY ROOM 106 SOUTH
1/4" = 1'-0"



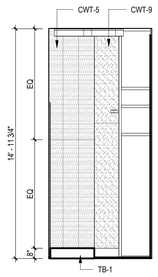
9 LOBBY / GALLERY 100 WEST
1/4" = 1'-0"



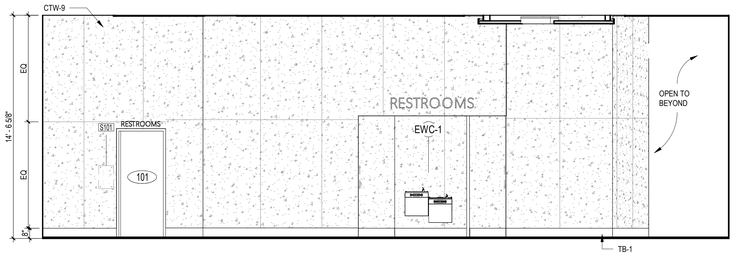
8 LOBBY / GALLERY 100 NORTH
1/4" = 1'-0"



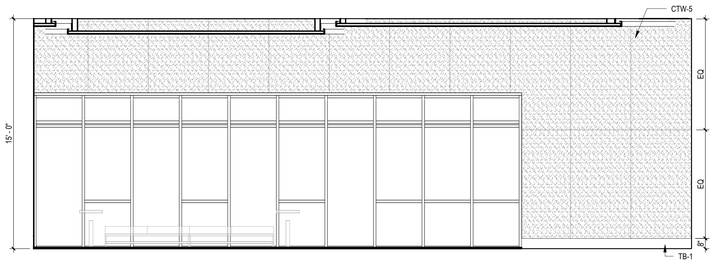
7 LOBBY / GALLERY 100 EAST
1/4" = 1'-0"



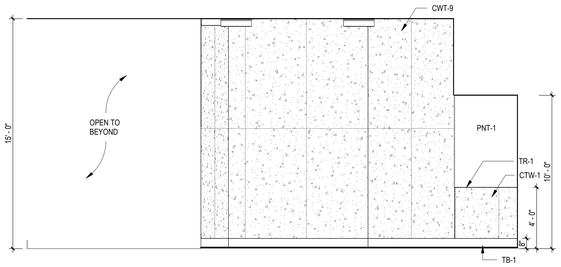
6 LOBBY / GALLERY 100 NORTHWEST
1/4" = 1'-0"



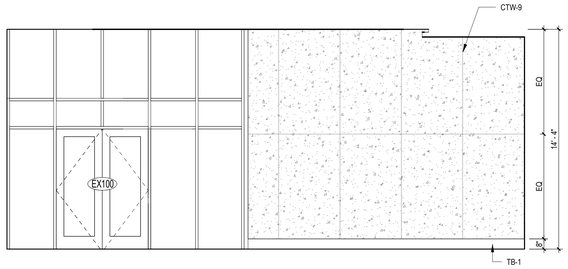
5 LOBBY / GALLERY 100 NORTHEAST
1/4" = 1'-0"



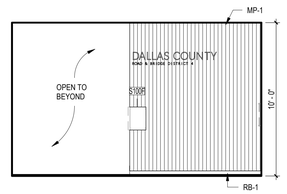
4 LOBBY / GALLERY 100 SOUTHWEST
1/4" = 1'-0"



3 LOBBY / GALLERY 100 NORTHWEST 2
1/4" = 1'-0"



2 LOBBY / GALLERY 100 SOUTHEAST
1/4" = 1'-0"



1 LOBBY / GALLERY 100 NORTH 2
1/4" = 1'-0"

5/7/2026 1:47:59 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

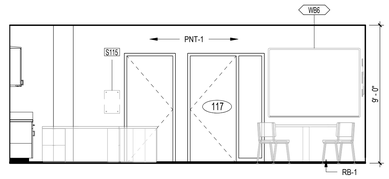
Project No.
3015

Drawn By:
KR

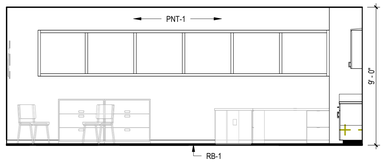
Checked By:
KR

Sheet Title:
INTERIOR ELEVATIONS

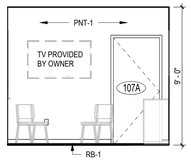
Drawing No.
A8.00



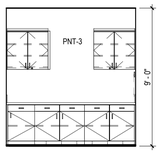
25 **COMMISSIONER'S OFFICE 117 SOUTH**
1/4" = 1'-0"



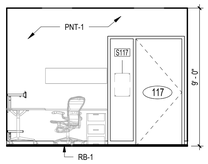
24 **COMMISSIONER'S OFFICE 117 NORTH**
1/4" = 1'-0"



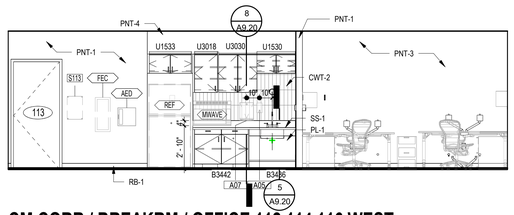
23 **COMMISSIONER'S OFFICE 117 WEST**
1/4" = 1'-0"



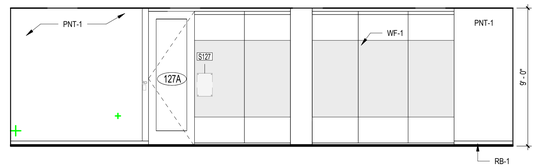
22 **COMMISSIONER'S OFFICE 117 EAST**
1/4" = 1'-0"



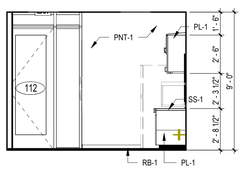
21 **OPEN OFFICE 116 NORTH**
1/4" = 1'-0"



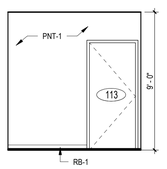
20 **CM CORR / BREAKRM / OFFICE 112,114,116 WEST**
1/4" = 1'-0"



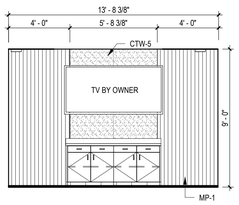
19 **CM CORR / BREAKRM / OFFICE 112,114,116 EAST**
1/4" = 1'-0"



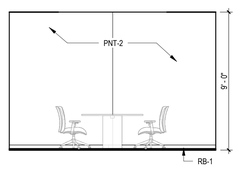
18 **BREAKRM 114 / CORR 112 SOUTH**
1/4" = 1'-0"



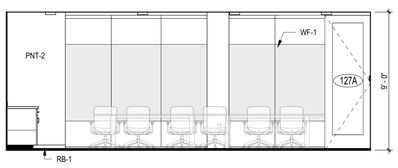
17 **STORAGE 113 EAST**
1/4" = 1'-0"



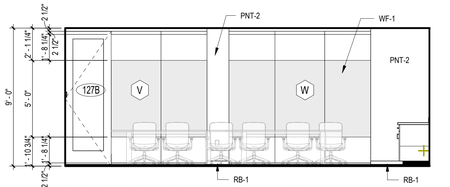
16 **CONFERENCE ROOM 127 SOUTH**
1/4" = 1'-0"



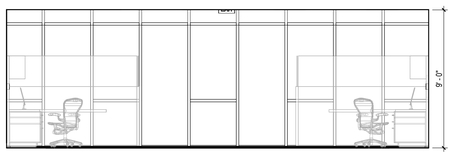
15 **CONFERENCE ROOM 127 NORTH**
1/4" = 1'-0"



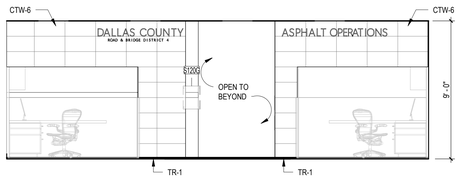
14 **CONFERENCE ROOM 127 WEST**
1/4" = 1'-0"



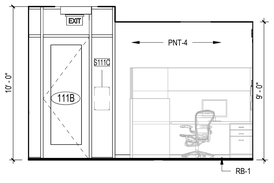
13 **CONFERENCE ROOM 127 EAST**
1/4" = 1'-0"



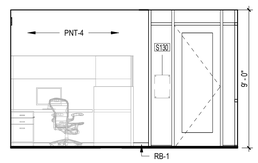
12 **OPEN OFFICE 120 SOUTH**
1/4" = 1'-0"



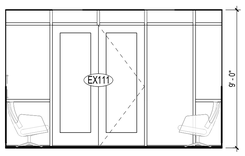
11 **OPEN OFFICE 120 NORTH**
1/4" = 1'-0"



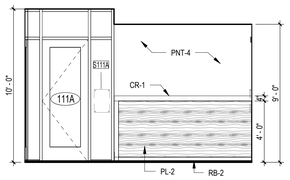
10 **OPEN OFFICE 120 WEST**
1/4" = 1'-0"



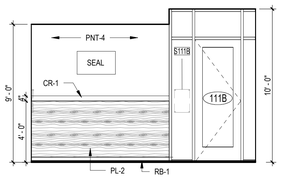
9 **OPEN OFFICE 120 EAST**
1/4" = 1'-0"



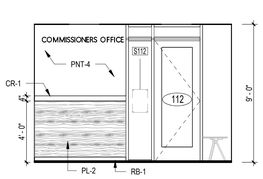
8 **WAITING ROOM 111 SOUTH**
1/4" = 1'-0"



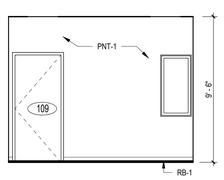
7 **WAITING ROOM 111 WEST**
1/4" = 1'-0"



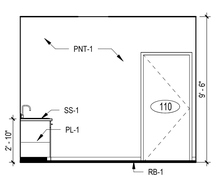
6 **WAITING ROOM 111 EAST**
1/4" = 1'-0"



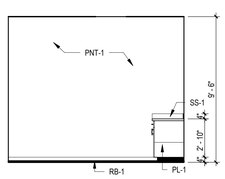
5 **WAITING ROOM 111 NORTH**
1/4" = 1'-0"



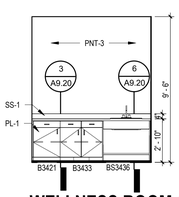
4 **MEDIA ROOM 109 WEST**
1/4" = 1'-0"



3 **WELLNESS ROOM 110 WEST**
1/4" = 1'-0"



2 **WELLNESS ROOM 110 EAST**
1/4" = 1'-0"



1 **WELLNESS ROOM 110 SOUTH**
1/4" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade
ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

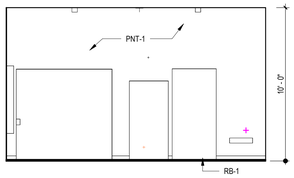
Drawn By:
KR

Checked By:
KR

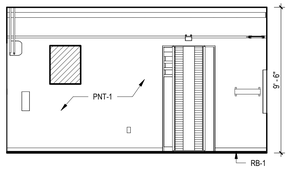
Sheet Title:
INTERIOR ELEVATIONS

Drawing No.
A8.01

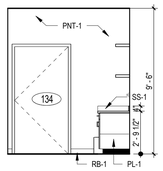
5/7/2026 1:48:09 PM



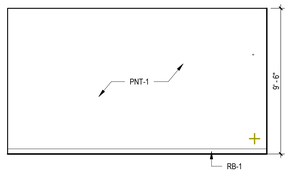
22 ELECTRICAL 133 SOUTH
1/4" = 1'-0"



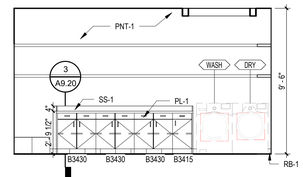
21 MDF 134 NORTH
1/4" = 1'-0"



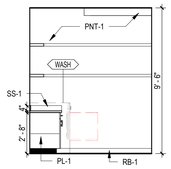
20 LAUNDRY CUSTODIAL 135 WEST
1/4" = 1'-0"



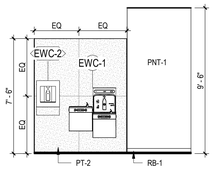
19 LAUNDRY/CUSTODIAL 135 SOUTH
1/4" = 1'-0"



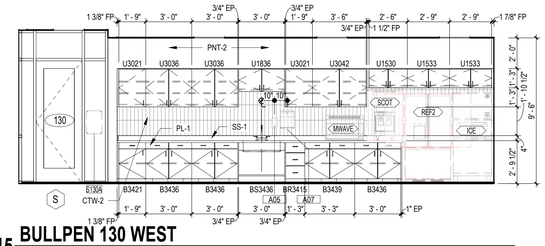
18 LAUNDRY/CUSTODIAL 135 NORTH
1/4" = 1'-0"



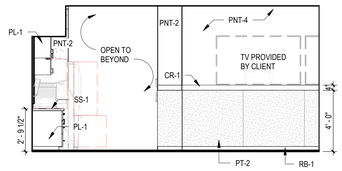
17 LAUNDRY /CUSTODIAL 135 EAST
1/4" = 1'-0"



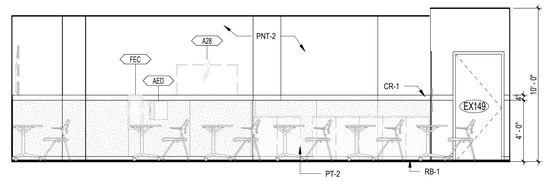
16 CORRIDOR 131 WEST
1/4" = 1'-0"



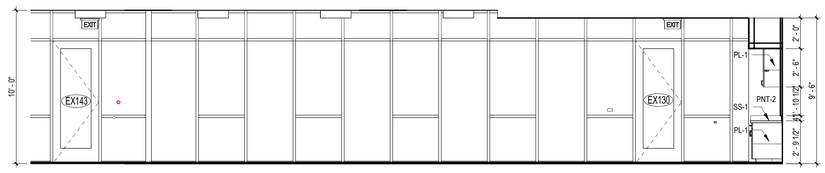
15 BULLPEN 130 WEST
1/4" = 1'-0"



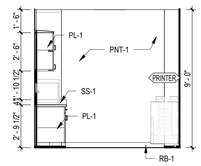
14 BULLPEN 130 NORTH
1/4" = 1'-0"



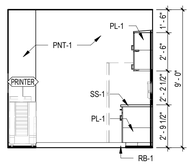
13 BULLPEN 130 EAST
1/4" = 1'-0"



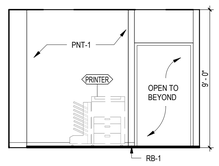
12 BULLPEN 130 / STAFF RR 142 CORR SOUTH
1/4" = 1'-0"



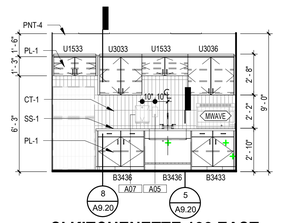
11 SI KITCHENETTE 122 SOUTH
1/4" = 1'-0"



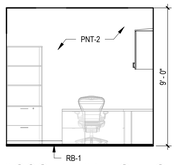
10 SI KITCHENETTE 122 NORTH
1/4" = 1'-0"



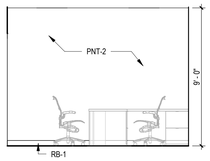
9 SI KITCHENETTE 122 WEST
1/4" = 1'-0"



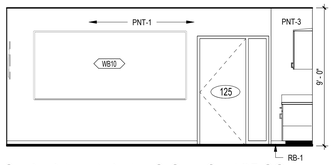
8 SI KITCHENETTE 122 EAST
1/4" = 1'-0"



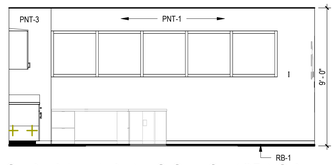
7 ACCOUNTANT OFFICE 123 NORTH
1/4" = 1'-0"



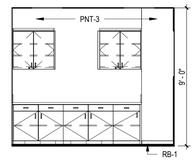
6 ROAD MANAGER OFFICE 124 NORTH
1/4" = 1'-0"



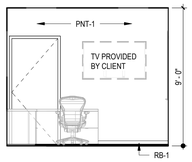
4 SUPERINTENDENT'S OFFICE 125 SOUTH
1/4" = 1'-0"



3 SUPERINTENDENT'S OFFICE 125 NORTH
1/4" = 1'-0"



2 SUPERINTENDENT'S OFFICE 125 WEST
1/4" = 1'-0"



1 SUPERINTENDENT'S OFFICE 125 EAST
1/4" = 1'-0"

5/7/2026 1:48:25 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade
ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

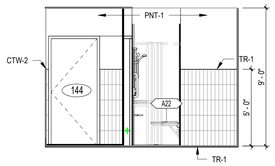
Project No.
3015

Drawn By:
KR

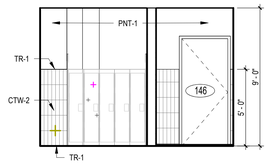
Checked By:
KR

Sheet Title:
INTERIOR ELEVATIONS

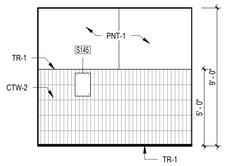
Drawing No.
A8.02



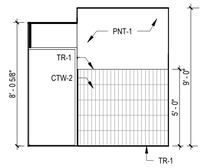
32 **WOMEN RR 146 VESTIBULE SOUTH**
1/4" = 1'-0"



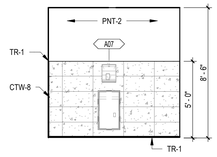
31 **WOMEN RR 146 VESTIBULE NORTH**
1/4" = 1'-0"



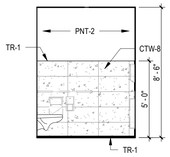
30 **WOMEN RR 146 VESTIBULE EAST**
1/4" = 1'-0"



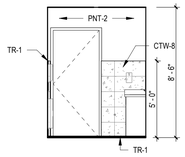
29 **WOMEN RR 146 VESTIBULE WEST**
1/4" = 1'-0"



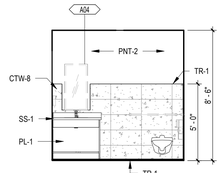
28 **COMMISSIONER'S RR 115 WEST**
1/4" = 1'-0"



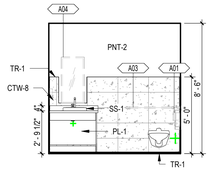
27 **COMMISSIONER'S RR 115 SOUTH**
1/4" = 1'-0"



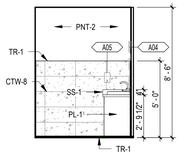
26 **COMMISSIONER'S RR 115 NORTH**
1/4" = 1'-0"



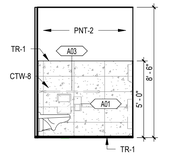
25 **COMMISSIONER'S RR 115 EAST**
1/4" = 1'-0"



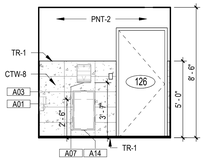
24 **SUPERINTENDENTS RR 126 WEST**
1/4" = 1'-0"



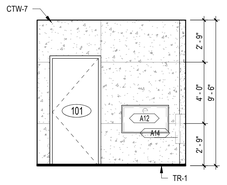
23 **SUPERINTENDENTS RR 126 SOUTH**
1/4" = 1'-0"



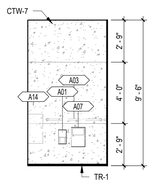
22 **SUPERINTENDENTS RR 126 NORTH**
1/4" = 1'-0"



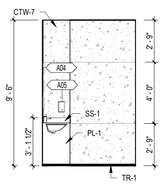
21 **SUPERINTENDENTS RR 126 EAST**
1/4" = 1'-0"



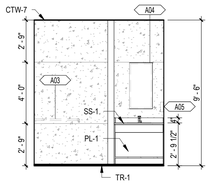
20 **UNISEX 101 SOUTHWEST**
1/4" = 1'-0"



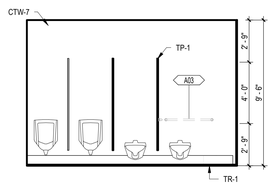
19 **UNISEX 101 NORTHWEST**
1/4" = 1'-0"



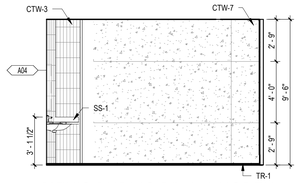
18 **UNISEX 101 SOUTHEAST**
1/4" = 1'-0"



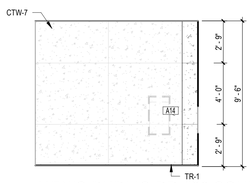
16 **UNISEX 101 NORTHEAST**
1/4" = 1'-0"



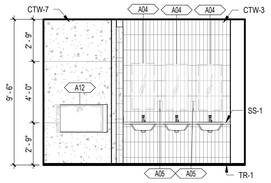
15 **MEN'S PUBLIC RR 102 WET WALL**
1/4" = 1'-0"



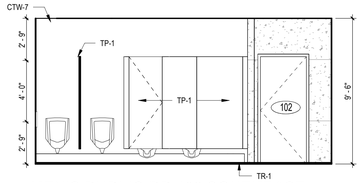
14 **MEN'S PUBLIC RR 102 NORTH**
1/4" = 1'-0"



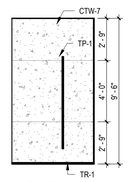
13 **MEN'S PUBLIC RR 102 SOUTHWEST**
1/4" = 1'-0"



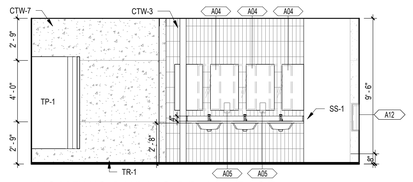
11 **MEN'S PUBLIC RR 102 NORTHWEST**
1/4" = 1'-0"



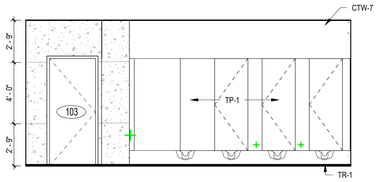
10 **MEN'S PUBLIC RR 102 SOUTHEAST**
1/4" = 1'-0"



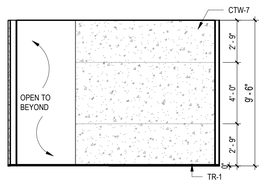
9 **WOMEN'S PUBLIC RR 103 NORTH**
1/4" = 1'-0"



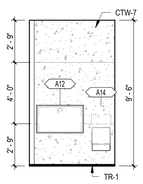
8 **WOMEN'S PUBLIC RR 103 EAST**
1/4" = 1'-0"



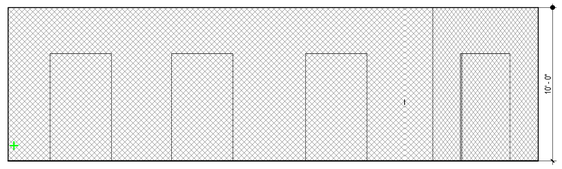
7 **WOMEN'S PUBLIC RR 103 NORTHWEST**
1/4" = 1'-0"



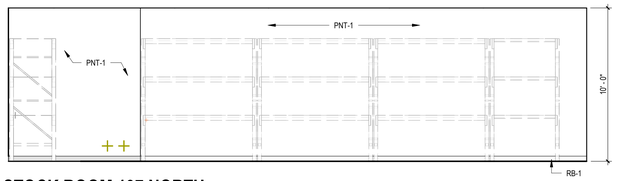
6 **WOMEN'S PUBLIC RR 103 SOUTHWEST**
1/4" = 1'-0"



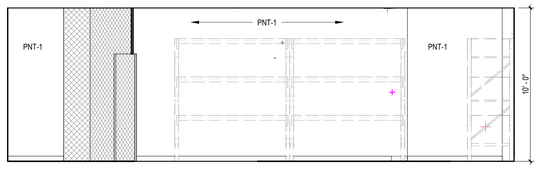
5 **WOMEN'S PUBLIC RR 103 SOUTHEAST**
1/4" = 1'-0"



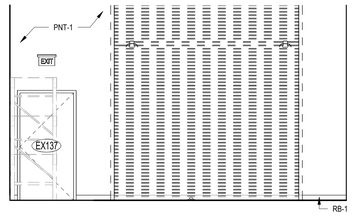
4 **STOCK ROOM 137 SOUTH**
1/4" = 1'-0"



3 **STOCK ROOM 137 NORTH**
1/4" = 1'-0"



2 **STOCK ROOM 137 WEST**
1/4" = 1'-0"



1 **STOCK ROOM 137 EAST**
1/4" = 1'-0"

5/7/2026 1:48:31 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

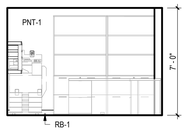
Project No.
3015

Drawn By:
KR

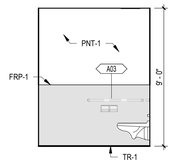
Checked By:
KR

Sheet Title:
INTERIOR ELEVATIONS

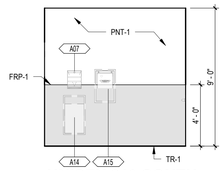
Drawing No.
A8.03



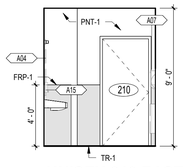
23 OFFICE 207 WEST
1/4" = 1'-0"



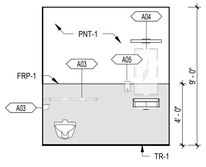
22 UNISEX 210 WEST
1/4" = 1'-0"



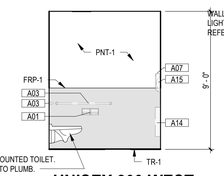
21 UNISEX 210 SOUTH
1/4" = 1'-0"



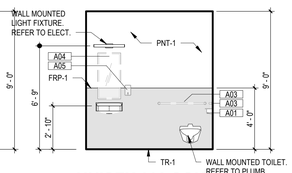
20 UNISEX 210 EAST
1/4" = 1'-0"



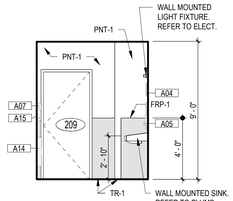
19 UNISEX 210 NORTH
1/4" = 1'-0"



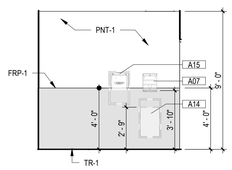
18 UNISEX 209 WEST
1/4" = 1'-0"



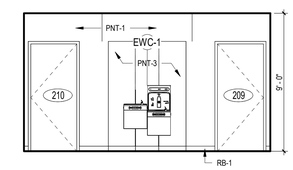
17 UNISEX 209 SOUTH
1/4" = 1'-0"



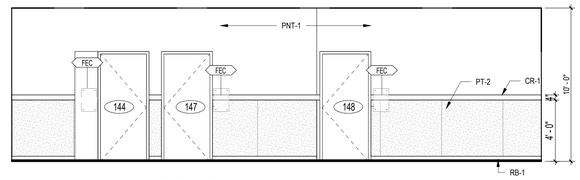
16 UNISEX 209 EAST
1/4" = 1'-0"



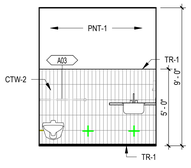
15 UNISEX 209 NORTH
1/4" = 1'-0"



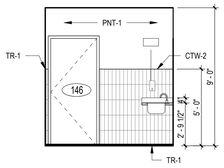
14 CORRIDOR 208 WEST
1/4" = 1'-0"



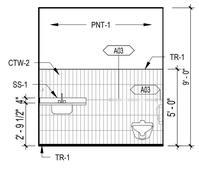
13 STAFF RR CORRIDOR 143 NORTH
1/4" = 1'-0"



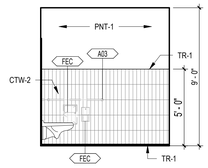
12 WOMEN RR 146 WET WALL
1/4" = 1'-0"



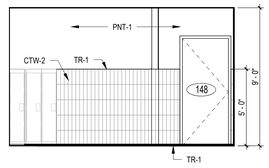
11 WOMEN RR 146 SOUTH
1/4" = 1'-0"



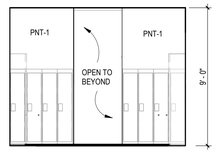
10 WOMEN RR 143 WEST
1/4" = 1'-0"



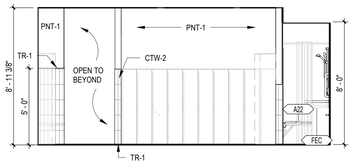
9 WOMEN RR 146 NORTH
1/4" = 1'-0"



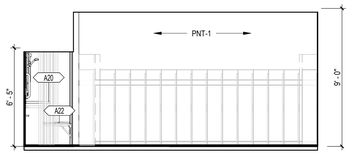
8 MEN'S LOCKER ROOM 148 SOUTH
1/4" = 1'-0"



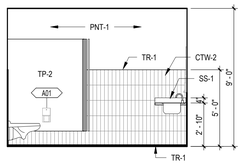
7 MEN'S LOCKER ROOM 148 NORTH
1/4" = 1'-0"



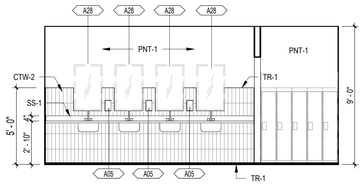
6 MEN'S LOCKER ROOM 148 WEST
1/4" = 1'-0"



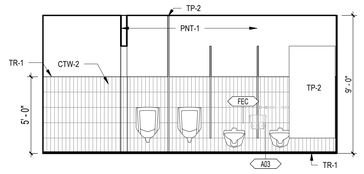
5 MEN'S LOCKER ROOM 148 EAST
1/4" = 1'-0"



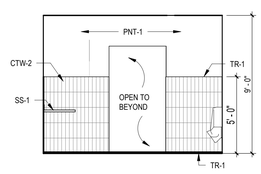
4 MEN RR 147 NORTH
1/4" = 1'-0"



3 MEN RR 147 EAST
1/4" = 1'-0"



2 MEN RR 147 WEST
1/4" = 1'-0"



1 MEN RR 147 SOUTH
1/4" = 1'-0"

5/7/2026 1:48:38 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

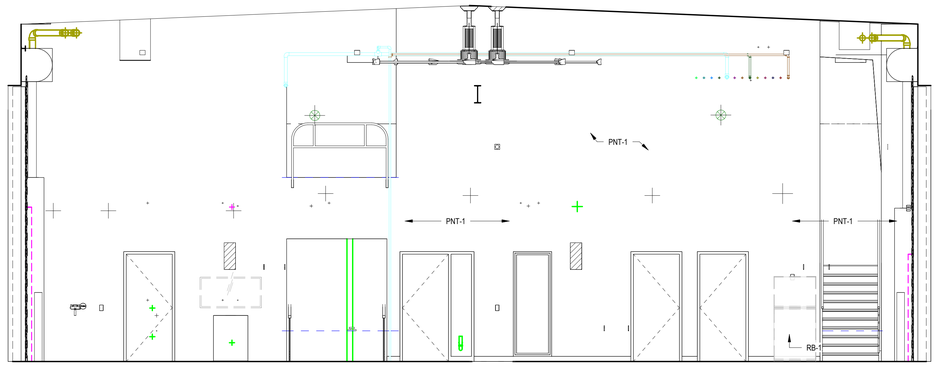
Project No.
3015

Drawn By:
KR

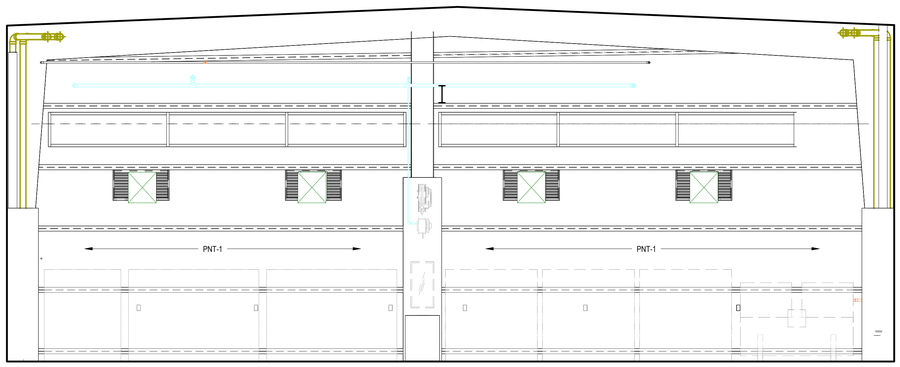
Checked By:
KR

Sheet Title:
INTERIOR ELEVATIONS

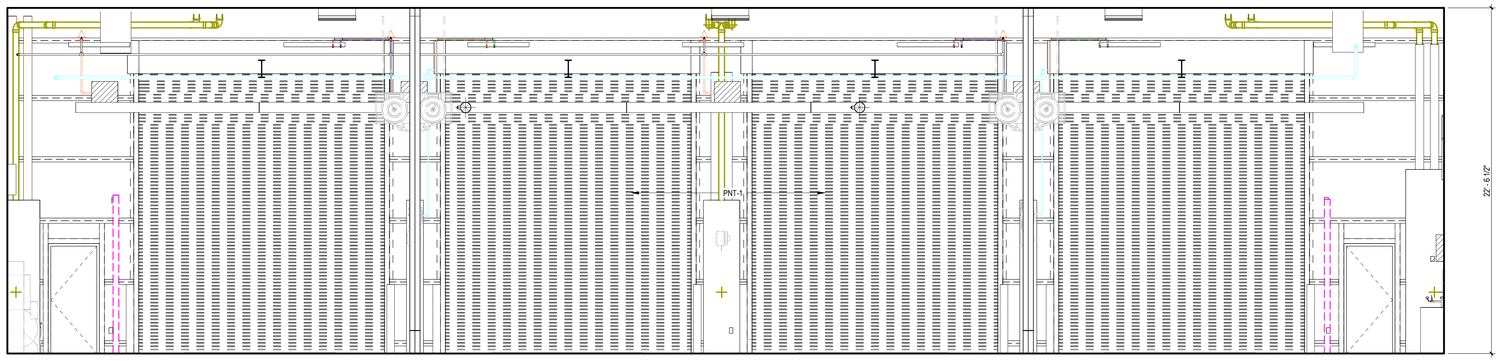
Drawing No.
A8.04



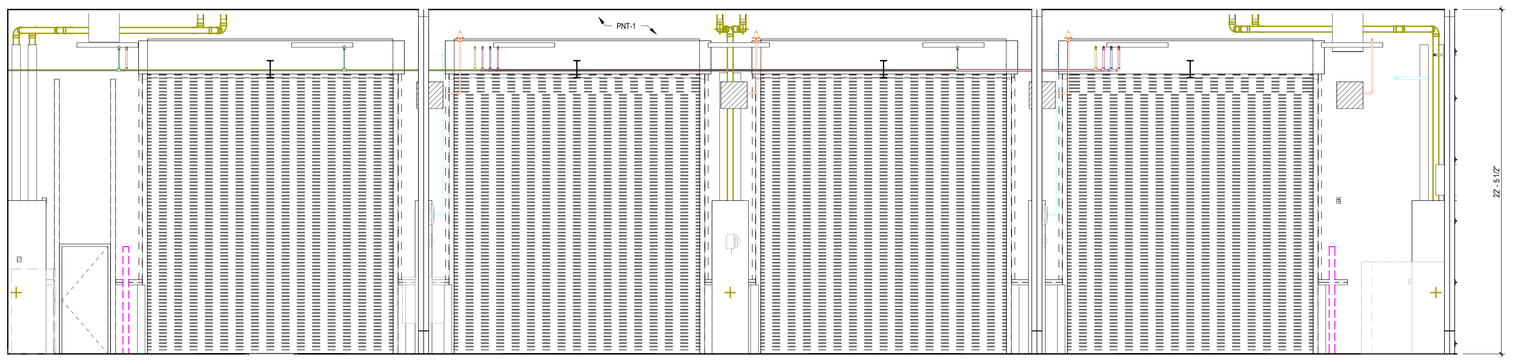
4 **MECHANIC SHOP 212 WEST**
1/4" = 1'-0"



3 **MECHANIC SHOP 212 EAST**
1/4" = 1'-0"



2 **MECHANIC SHOP 212 SOUTH**
1/4" = 1'-0"



1 **MECHANIC SHOP 212 NORTH**
1/4" = 1'-0"

5/7/2026 1:48:43 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

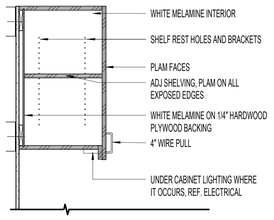
Project No.
3015

Drawn By:
KR

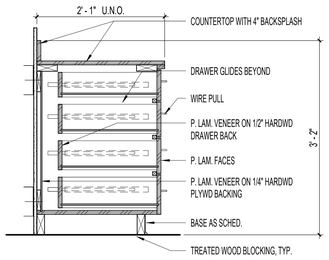
Checked By:
KR

Sheet Title:
INTERIOR ELEVATIONS

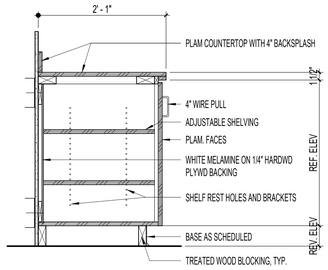
Drawing No.
A8.05



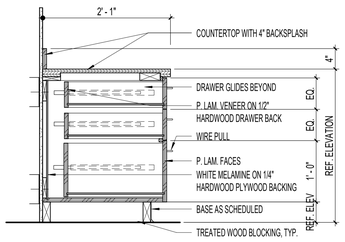
10 U - UPPER CABINET
1" = 1'-0"



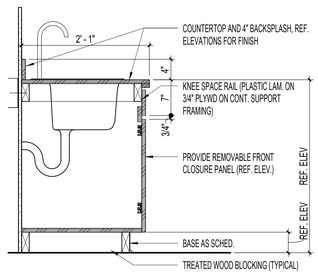
7 BR - BASE DRAWERS 4
1" = 1'-0"



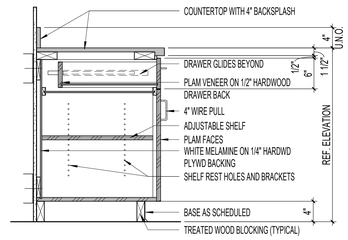
4 BD - BASE DOOR
1" = 1'-0"



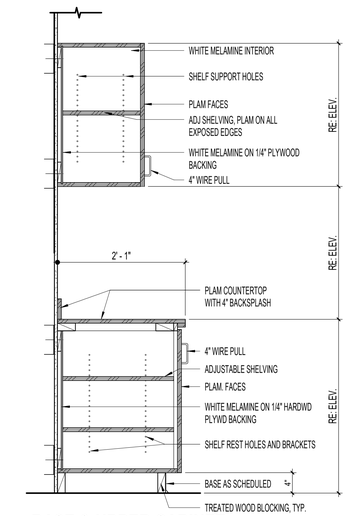
9 P - PED BOX/BOX/FILE
1" = 1'-0"



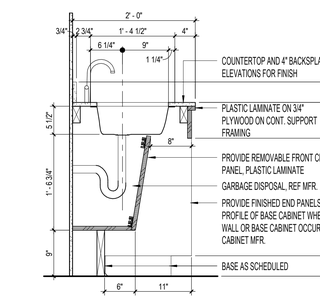
6 BP- BASE SINK PANEL
1" = 1'-0"



3 B - BASE DOOR/DRAWER
1" = 1'-0"

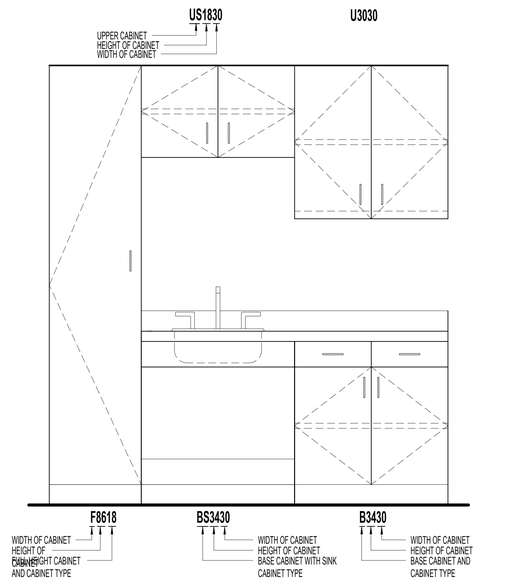


8 BASE & UPPER CABINET
1" = 1'-0"

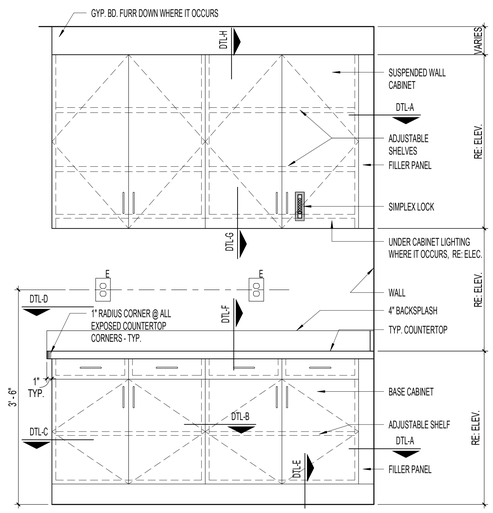


11 BV - BASE VANITY SINK
1" = 1'-0"

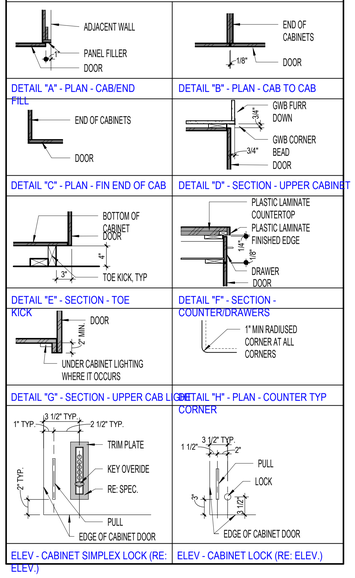
5 BS - BASE SINK
1" = 1'-0"



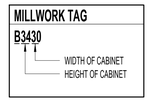
2 MILLWORK DETAIL ELEVATION
1" = 1'-0"



CASEWORK DETAILS



MILLWORK TAG



MILLWORK/CASEWORK/CABINETRY GENERAL NOTES

1 FOLLOWING NOTES REFER TO MILLWORK, CASEWORK, AND CABINETRY IN GENERAL.

2 MILLWORK/CASEWORK/CABINETRY SHALL BE AWI CUSTOM GRADE, FLUSH OVERLAY, UNLESS NOTED OTHERWISE (UNO).

3 WOOD MILLWORK/CASEWORK/CABINETRY WITH TRANSPARENT FINISH SHALL BE AWI PREMIUM GRADE, FLUSH OVERLAY, UNO.

4 WOOD MILLWORK/CASEWORK/CABINETRY OPAQUE FINISH SHALL BE AWI CUSTOM GRADE, FLUSH OVERLAY, UNO.

5 CABINET SIZES AND FINISHES SHALL BE AS INDICATED ON THE INTERIOR ELEVATIONS AND DETAILS. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS, AND COORDINATE THE PLACEMENT AND INSTALLATION REQUIREMENTS OF ALL EQUIPMENT, PRIOR TO FABRICATION AND CONSTRUCTION OF CABINETS. NOTIFY ARCHITECT IN EVENT OF CONFLICT OR DISCREPANCY.

6 CONTRACTOR SHALL VERIFY AND COORDINATE CLEAR DIMENSIONS REQUIRED FOR OWNER-FURNISHED EQUIPMENT WHICH IS TO BE INSTALLED WITHIN, OR ADJACENT TO MILLWORK/CASEWORK/CABINETRY.

7 MILLWORK/CASEWORK/CABINETRY MANUFACTURER AND INSTALLER SHALL COORDINATE WITH APPROPRIATE SUBCONTRACTORS AND SUPPLIERS, TO ENSURE COMPLETE AND PROPER INSTALLATION OF SINKS AND ASSOCIATED PLUMBING AND FITTINGS, ELECTRICAL RECEPTACLES, LIGHT FIXTURES, SWITCHES, COMMUNICATIONS AND DATA OUTLETS, ETC., WITHIN THE CASEWORK.

8 ALL MILLWORK/CASEWORK/CABINETRY EXPOSED TO VIEW SHALL BE FINISHED WITH PLASTIC LAMINATE SURFACES AS SCHEDULED, AND AS INDICATED ON INTERIOR ELEVATIONS.

9 INTERIOR FINISHES OF MILLWORK/CASEWORK/CABINETRY COMPONENTS NOT EXPOSED TO VIEW SHALL BE WHITE THERMOSET PLASTIC LAMINATE (MELAMINE), UNO.

10 INTERIOR FINISHES OF MILLWORK/CASEWORK/CABINETRY COMPONENTS THAT ARE EXPOSED TO VIEW SHALL BE FINISHED WITH PLASTIC LAMINATE SURFACES TO MATCH THE EXTERIOR OF THE CABINET EXTERIOR, UNO.

11 PROVIDE FINISHED END PANELS WHERE MILLWORK/CASEWORK/CABINETRY DO NOT ABUT WALLS, UNO.

12 ALL MILLWORK/CASEWORK/CABINETRY END FILLER PANELS TO BE NO GREATER THAN 3" WIDE, UNO.

13 WHERE CABINETS INTERSECT AT CORNER CONDITIONS, ONE CABINET SHALL BE MODIFIED TO EXTEND THROUGH THE DEAD CORNER CONDITION AND CLOSE TO THE VERTICAL WALL SURFACE BEYOND IN LINE WITH THE ADJACENT CABINET. TYPICAL FOR BASE AND UPPER CABINETS.

14 WHERE FILLER SECTIONS ARE REQUIRED, DISTRIBUTE THE SECTIONS EVENLY, AND IN SUCH A WAY AS TO ENSURE PROPER OPERATION OF DRAWERS, DOORS, ETC. INSTALL FILLER SECTIONS TO BE FLUSH WITH CABINET DOORS AS INDICATED ON DETAILS.

15 ALL EXPOSED SCREWS SHALL BE COUNTERSUNK AND TAMPER-RESISTANT.

16 PROVIDE CONTINUOUS TOE SPACE BELOW MILLWORK/CASEWORK/CABINETRY TO GENERALLY MATCH THE HEIGHT OF BASE PROVIDED IN ROOM, AS INDICATED ON INTERIOR ELEVATIONS. TOE SPACE IS INDICATED ON SECTIONS AND DETAILS.

17 PROVIDE SCHEDULED BASE ALONG BOTTOM FACE OF EXPOSED TOE SPACE FRONTS, AND ALONG FINISHED FRONTS, BACKS, SIDES AND ENDS OF ALL FIXED CABINETS, CASEWORK, VERTICAL SUPPORTS, KNEE SPACES, ETC.

18 PROVIDE CONTINUOUS SEALANT AT ALL JUNCTURES AND INTERSECTIONS WITH ADJOINING MATERIALS AND FIXTURES (SINKS, COUNTERTOPS, BASES, ADJOINING WALLS, ETC.) PROVIDE SEALANT, EVEN IF CONDITIONS ARE NOT VISIBLE.

19 PROVIDE WALL BRACKET SUPPORTS AT 36" OC MAX. FOR CONTINUOUS KNEE SPACES.

20 PROVIDE ONE (1) 2" DIAMETER GROMMET AT BACK OF WORKTOP COUNTERTOPS FOR EVERY 3'-0" OF INDIVIDUAL WORKSTATION, AND ONE (1) FOR EVERY 4'-0" OF CONTINUOUS KNEE SPACE. PROVIDE GROMMET COLOR TO MATCH/COMPLIMENT COUNTERTOP COLOR, AS APPROVED BY ARCHITECT.

21 ALL COUNTERTOPS TO BE 2'-1" DEEP, UNO.

22 SHELVING SPANNING 36" TO 48" SHALL BE 1" THICK, IN LIEU OF STANDARD 3/4" THICKNESS.

FOR REVIEW

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

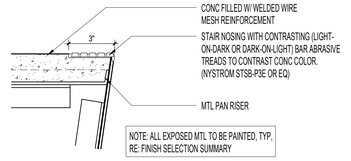
Drawn By:
KR

Checked By:
KR

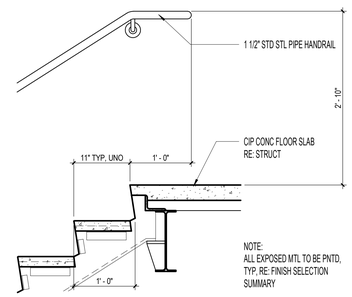
Sheet Title:
MILLWORK TYPES AND DETAILS

Drawing No.
A9.20

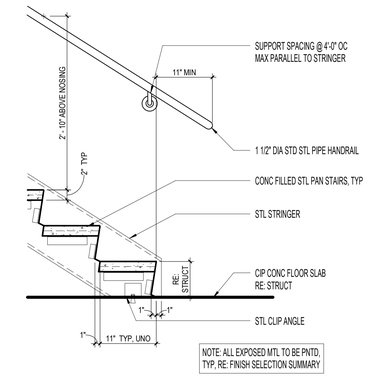
5/7/2026 1:48:44 PM



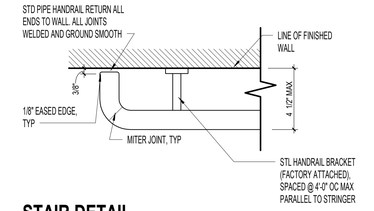
7 STAIR DETAIL - NOSING TYPICAL
3" = 1'-0"



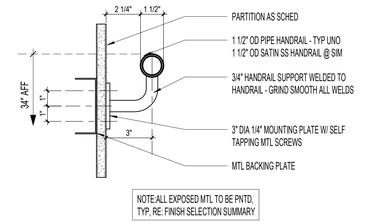
6 TOP STAIR LANDING
1" = 1'-0"



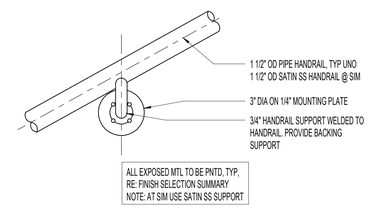
5 BOTTOM STAIR LANDING
1" = 1'-0"



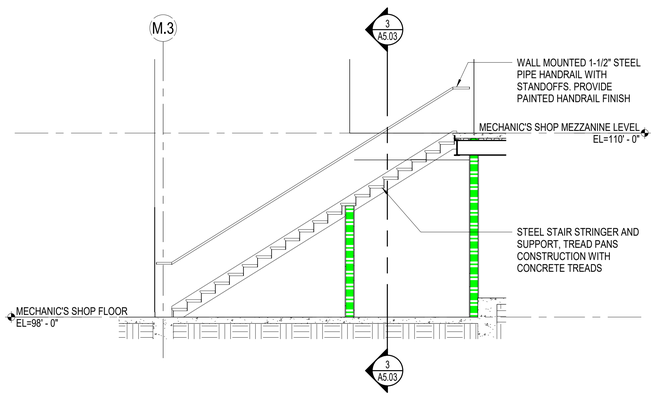
4 STAIR DETAIL
3" = 1'-0"



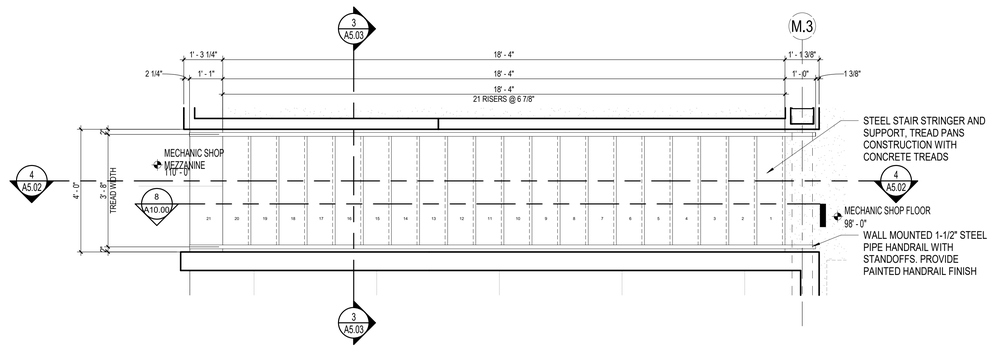
3 STAIR DETAIL - HANDRAIL SUPPORT SECTION
3" = 1'-0"



2 STAIR DETAIL - HANDRAIL SUPPORT
3" = 1'-0"



8 MECHANIC SHOP MEZZANINE STAIR SECTION
1/4" = 1'-0"



1 MECHANIC SHOP MEZZANINE STAIR PLAN
1/2" = 1'-0"

PLAN NORTH

TRUE NORTH

5/7/2026 1:48:45 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

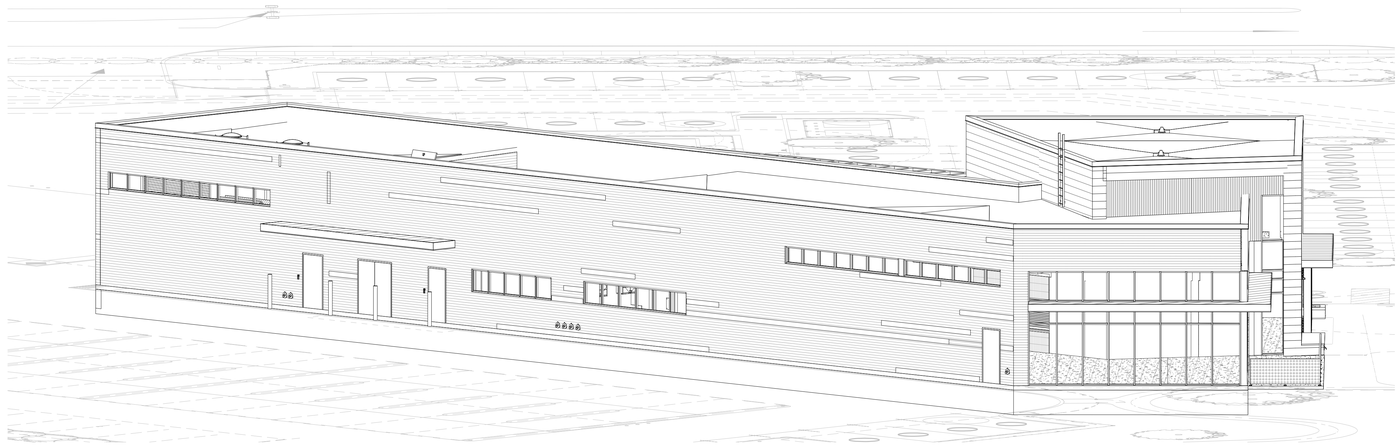
Project No.
3015

Drawn By:
KR

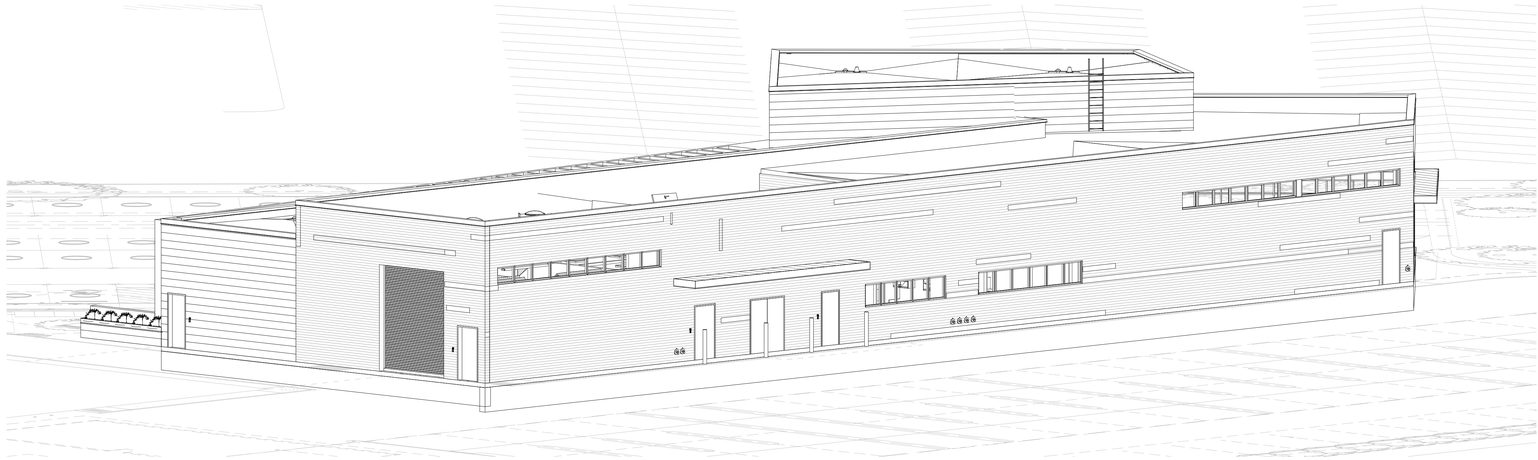
Checked By:
KR

Sheet Title:
STAIR PLANS AND SECTIONS

Drawing No.
A10.00



2 NORTHWEST PHASE 1 ADMIN BLDG ORTHOGRAPHIC



1 NORTHEAST PHASE 1 ADMIN BLDG ORTHOGRAPHIC

5/7/2026 1:48:49 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

Checked By:
KR

Sheet Title:
ORTHOGRAPHIC EXTERIOR PERSPECTIVES - PHASE 1

Drawing No.

A11.00



2 SOUTHWEST PHASE 1 ADMIN BLDG ORTHOGRAPHIC



1 SOUTHEAST PHASE 1 ADMIN BLDG ORTHOGRAPHIC

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

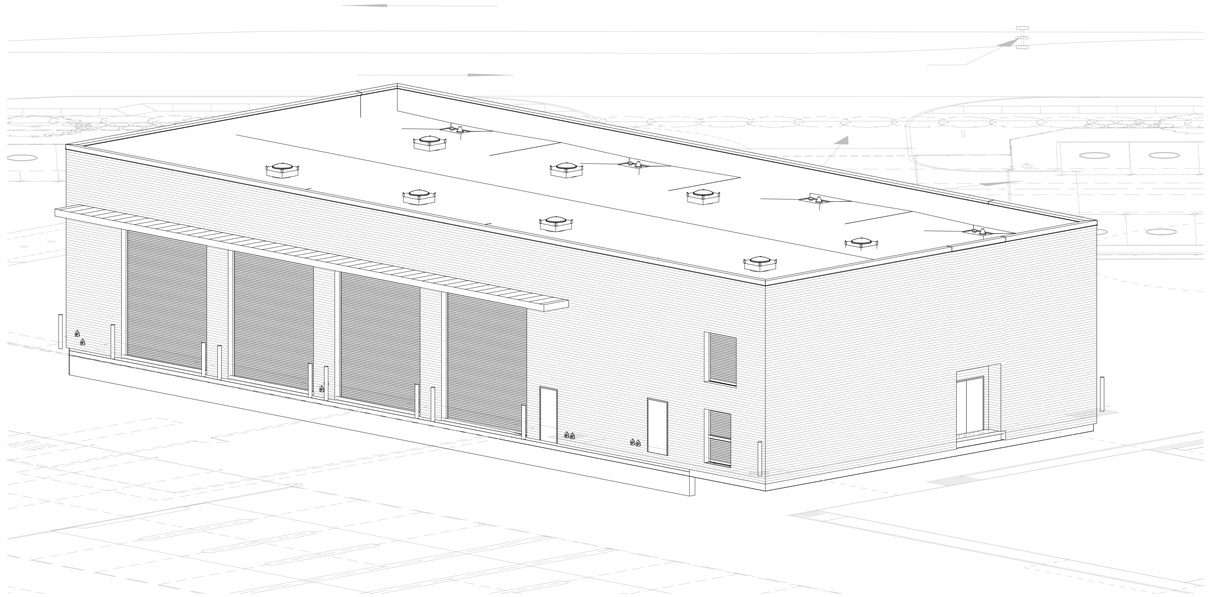
Checked By:
KR

Sheet Title:
ORTHOGRAPHIC EXTERIOR PERSPECTIVES - PHASE 1

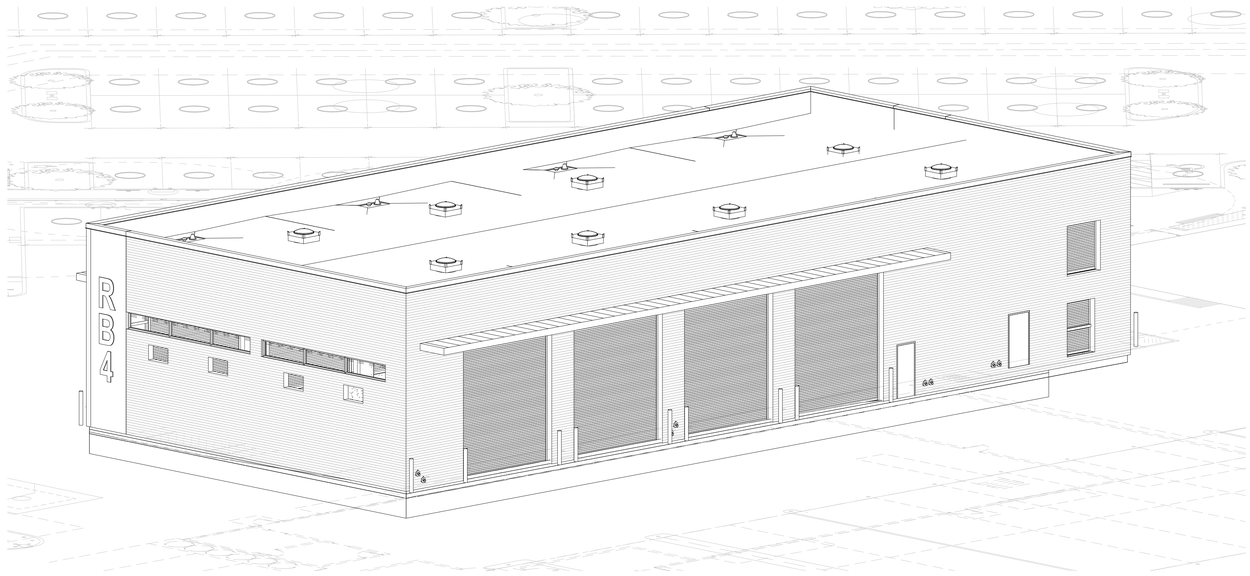
Drawing No.

A11.01

5/7/2026 1:48:53 PM



2 NORTHWEST PHASE 2 MECHANIC SHOP BLDG ORTHOGRAPHIC



1 NORTHEAST PHASE 2 MECHANIC SHOP BLDG ORTHOGRAPHIC

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

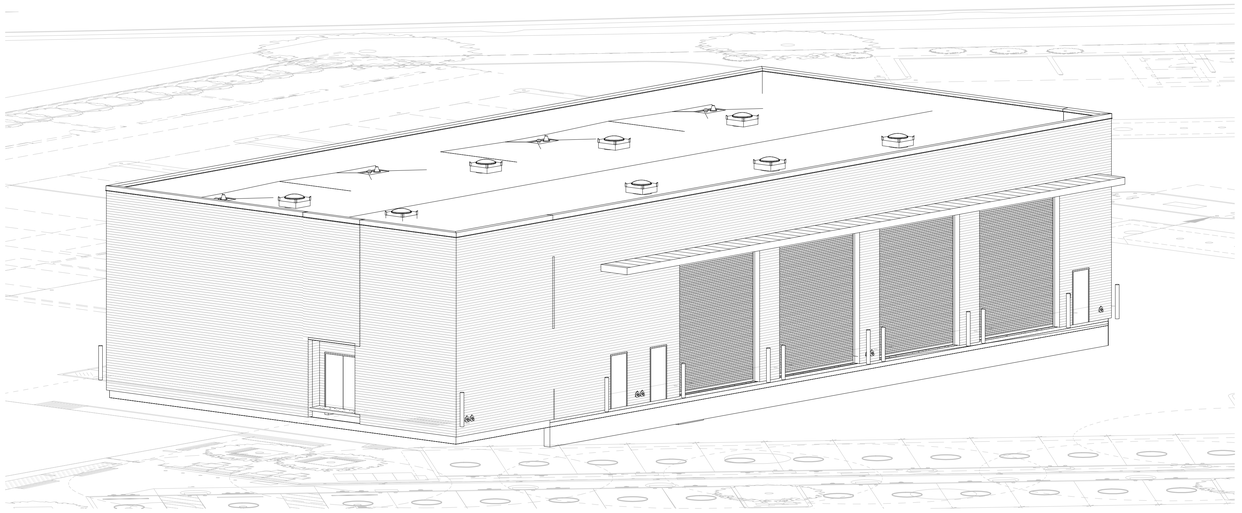
Drawn By:
KR

Checked By:
KR

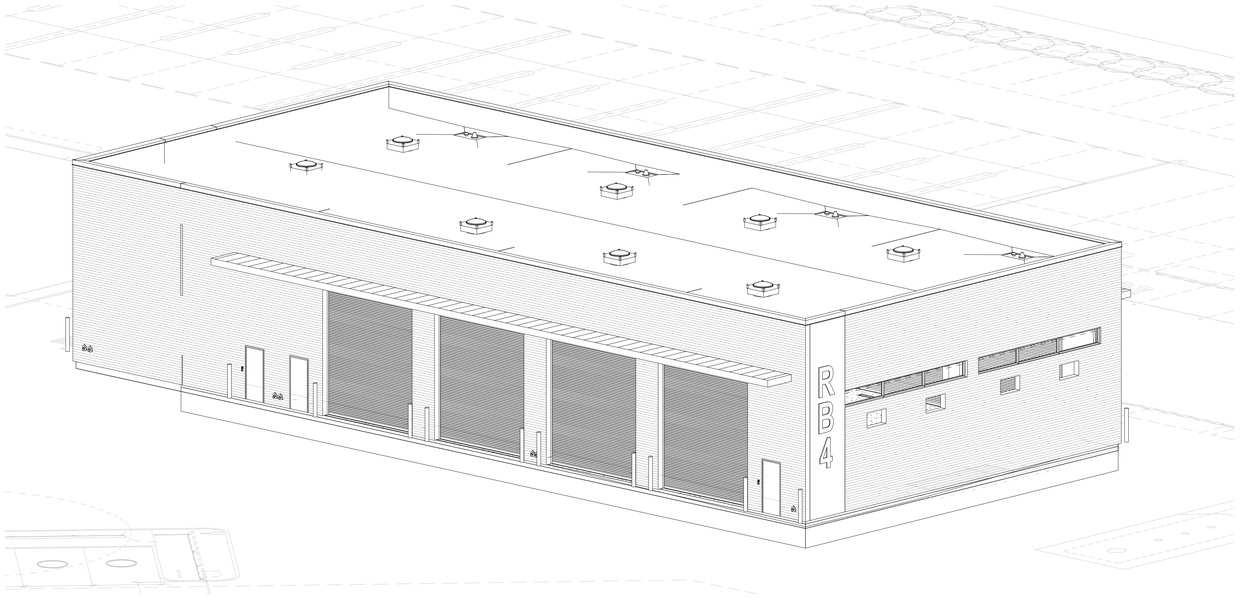
Sheet Title:
ORTHOGRAPHIC EXTERIOR PERSPECTIVES - PHASE 2

Drawing No.
A11.02

5/7/2026 1:48:56 PM



2 SOUTHWEST PHASE 2 MECHANIC SHOP BLDG ORTHOGRAPHIC



1 SOUTHEAST PHASE 2 MECHANIC SHOP BLDG ORTHOGRAPHIC

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

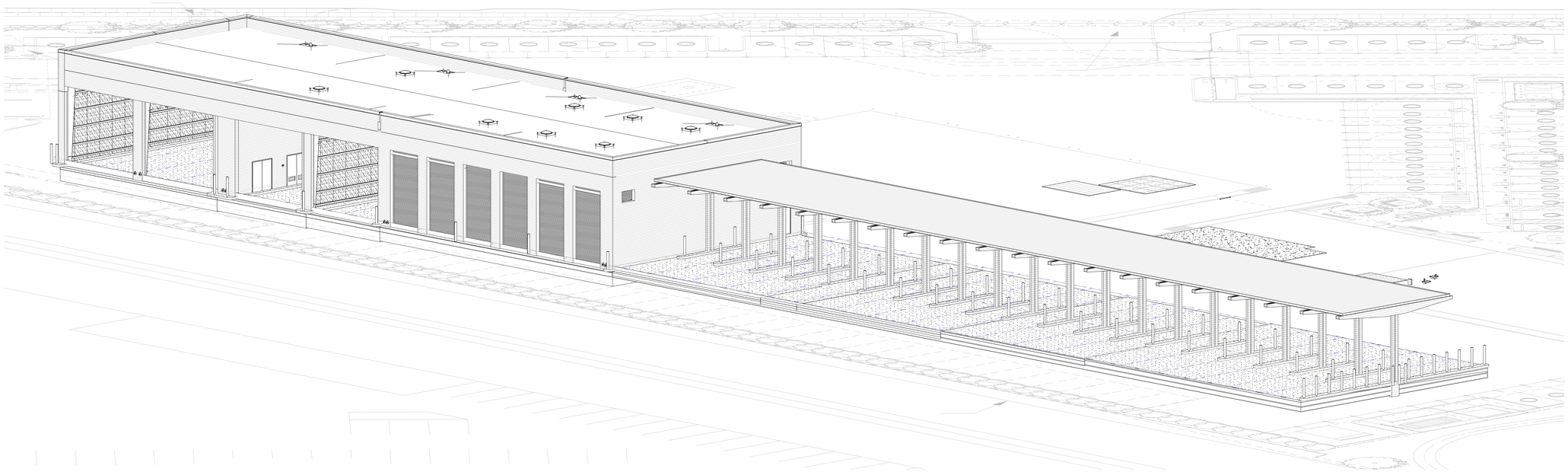
Drawn By:
KR

Checked By:
KR

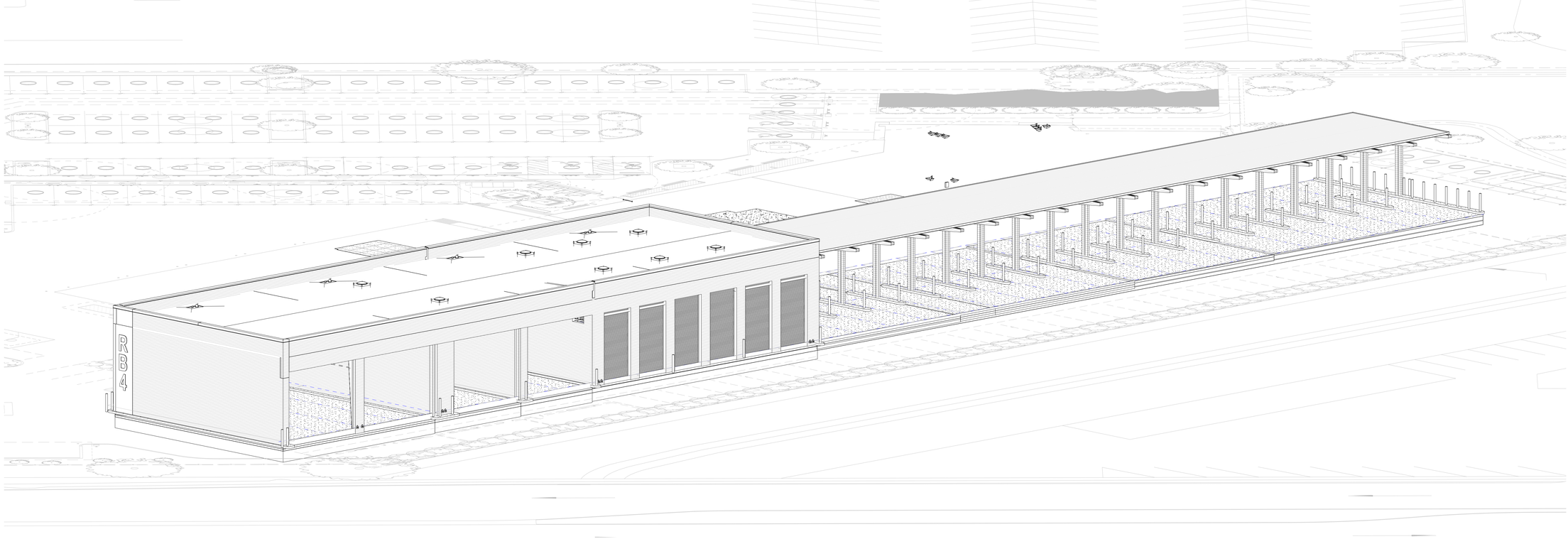
Sheet Title:
ORTHOGRAPHIC EXTERIOR PERSPECTIVES - PHASE 2

Drawing No.
A11.03

5/7/2026 1:48:59 PM



2 NORTHWEST PHASE 2 VEHICLE STORAGE BLDG ORTHOGRAPHIC



1 NORTHEAST PHASE 2 VEHICLE STORAGE BLDG ORTHOGRAPHIC

5/7/2026 1:49:03 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade
ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

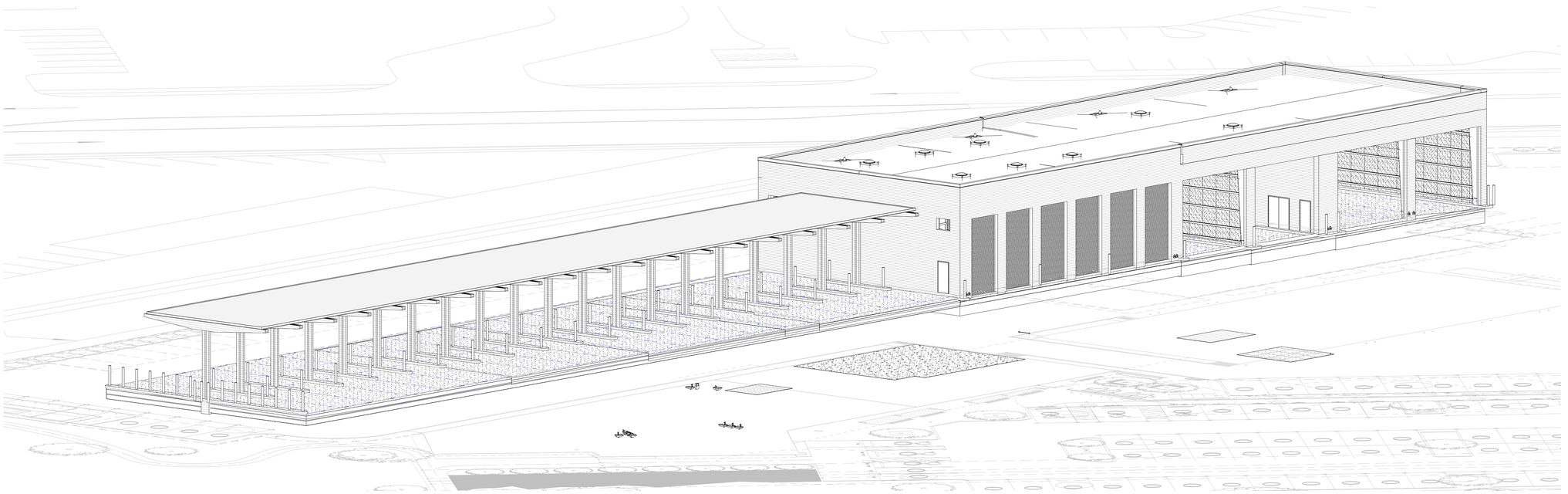
Project No.
3015

Drawn By:
KR

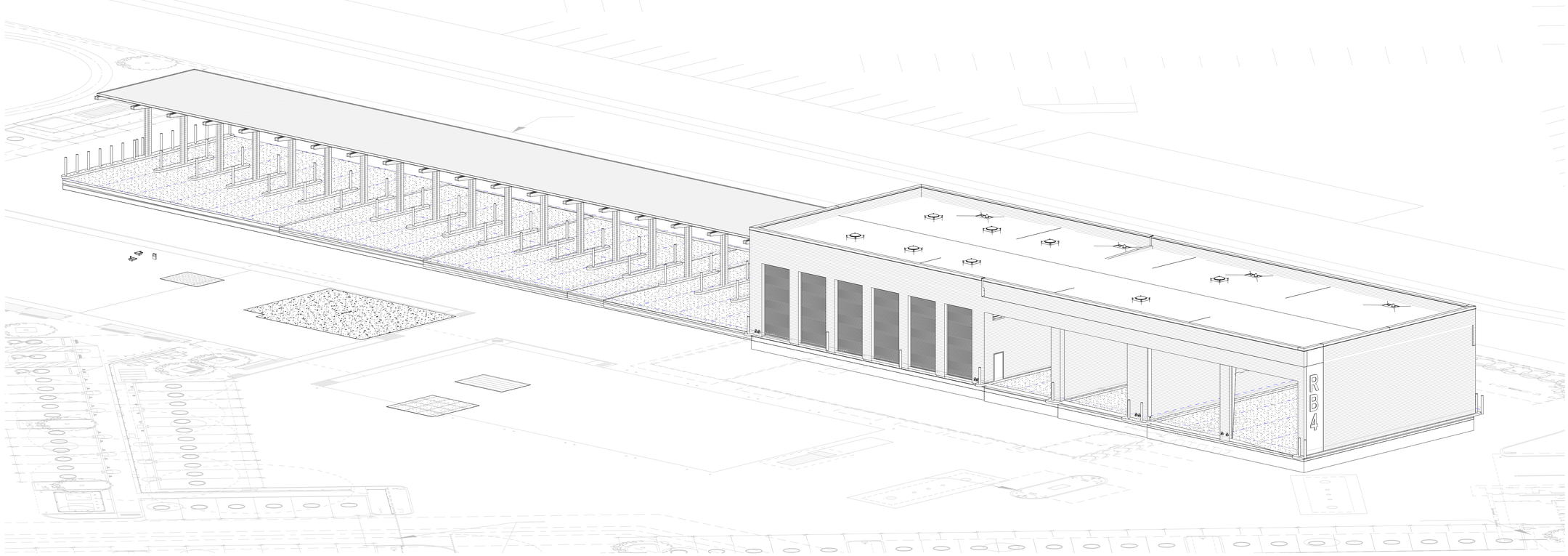
Checked By:
KR

Sheet Title:
ORTHOGRAPHIC EXTERIOR PERSPECTIVES - PHASE 2

Drawing No.
A11.04



2 SOUTHWEST PHASE 2 VEHICLE STORAGE BLDG ORTHOGRAPHIC



1 SOUTHEAST PHASE 2 VEHICLE STORAGE BLDG ORTHOGRAPHIC

5/7/2026 2:20:24 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

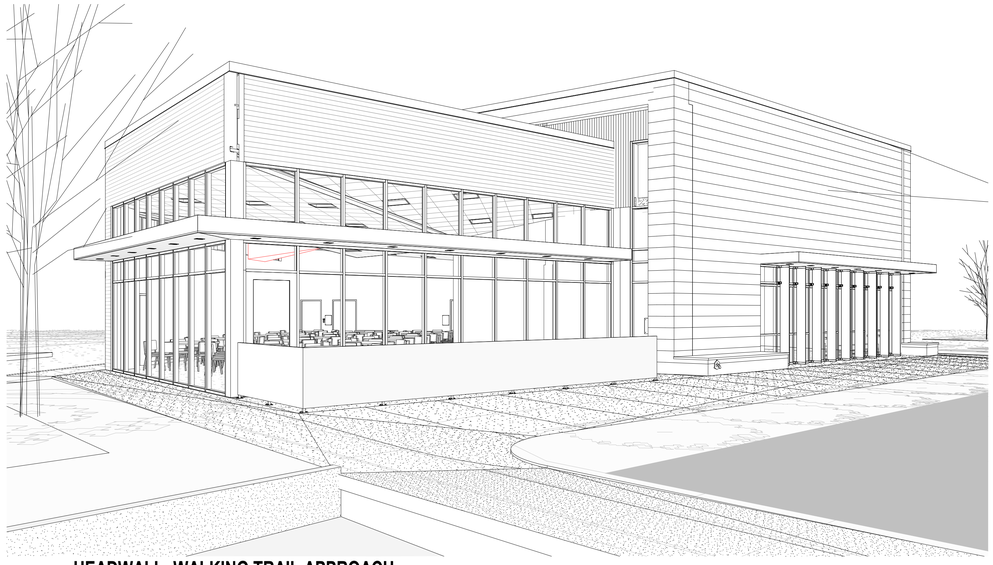
Checked By:
KR

Sheet Title:
ORTHOGRAPHIC EXTERIOR PERSPECTIVES - PHASE 2

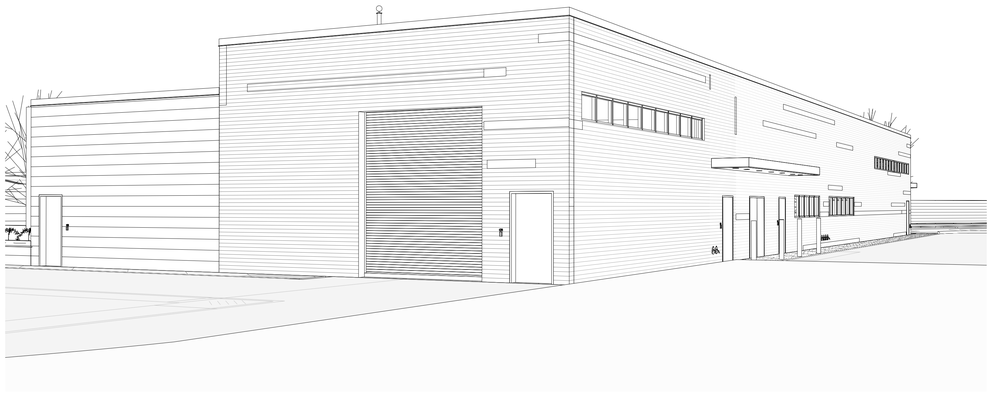
Drawing No.
A11.05



6 ADA PARKING APPROACH



5 HEADWALL- WALKING TRAIL APPROACH



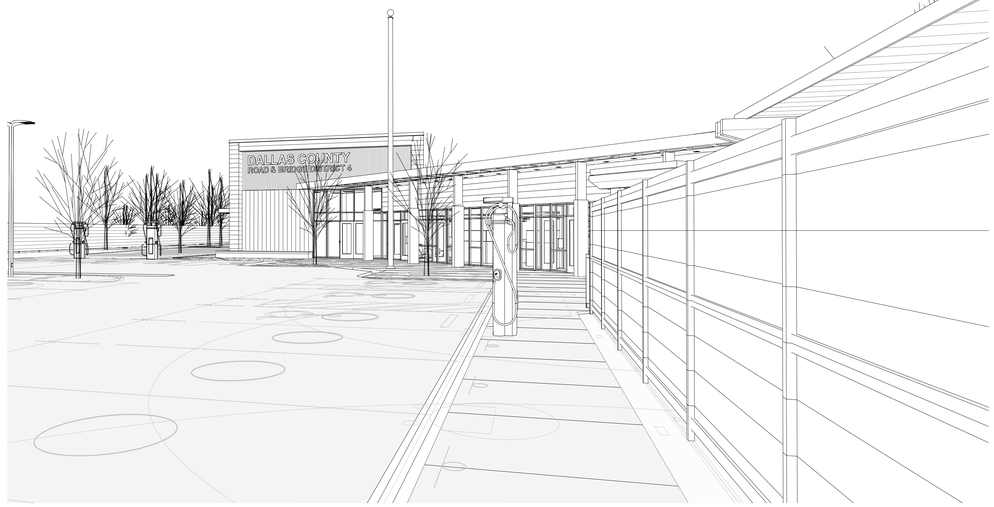
4 STAFF ENTRY APPROACH



3 COLUMNADE APPROACH



2 PUBLIC PARKING APPROACH



1 ELECTRIC VEHICLE APPROACH

5/7/2026 2:20:37 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 05-04-2026 on .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

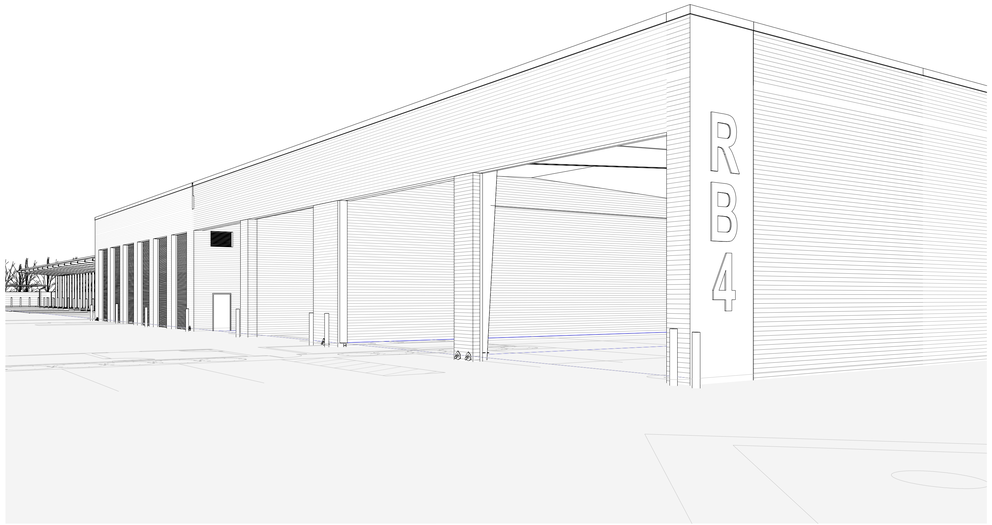
Project No.
3015

Drawn By:
KR

Checked By:
KR

Sheet Title:
EXTERIOR PERSPECTIVES - PHASE 1

Drawing No.
A11.06



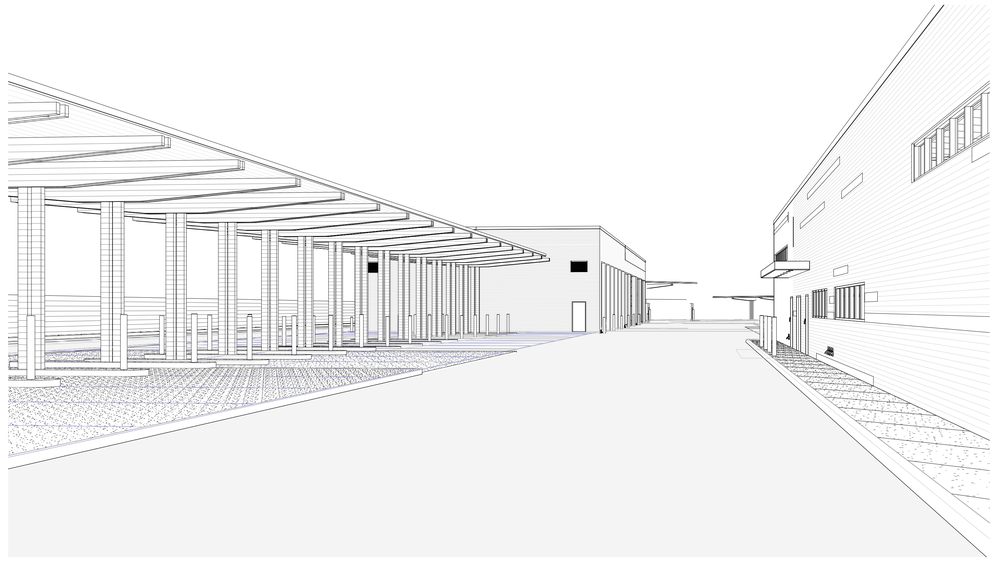
6 PHASE 2 VEHICLE STORAGE PERSPECTIVE



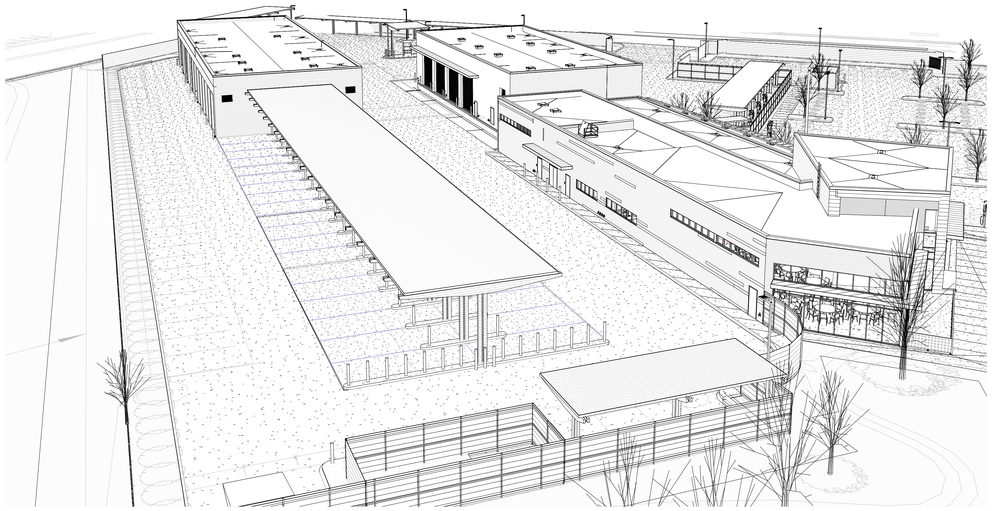
5 PHASE 2 MECHANIC'S PERSPECTIVE



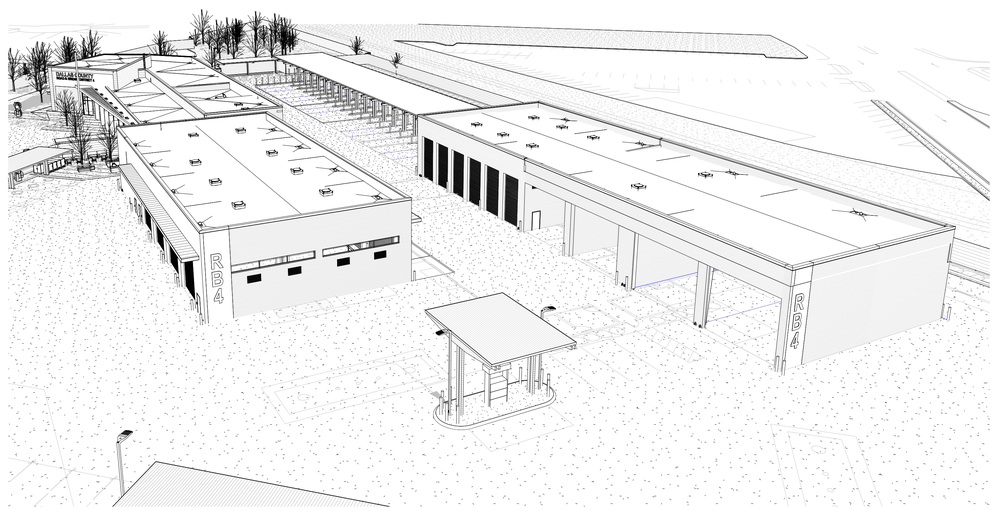
4 PHASE 2 FUEL DEPOT PERSPECTIVE



3 PHASE 2 BLDG PERSPECTIVE 3



2 PHASE 2 BLDG PERSPECTIVE 2



1 PHASE 2 BLDG PERSPECTIVE 1

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

Checked By:
KR

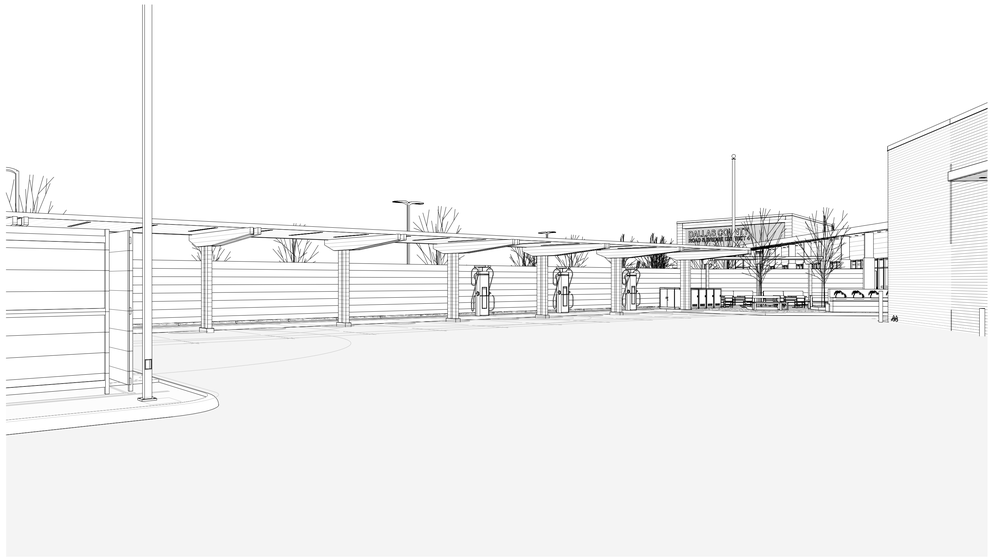
Sheet Title:
EXTERIOR PERSPECTIVES - PHASE 2

Drawing No.
A11.07

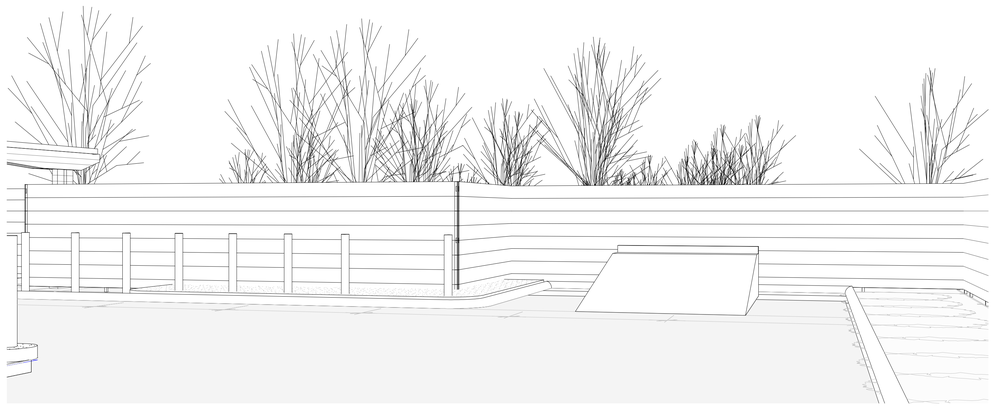
5/7/2026 2:20:52 PM



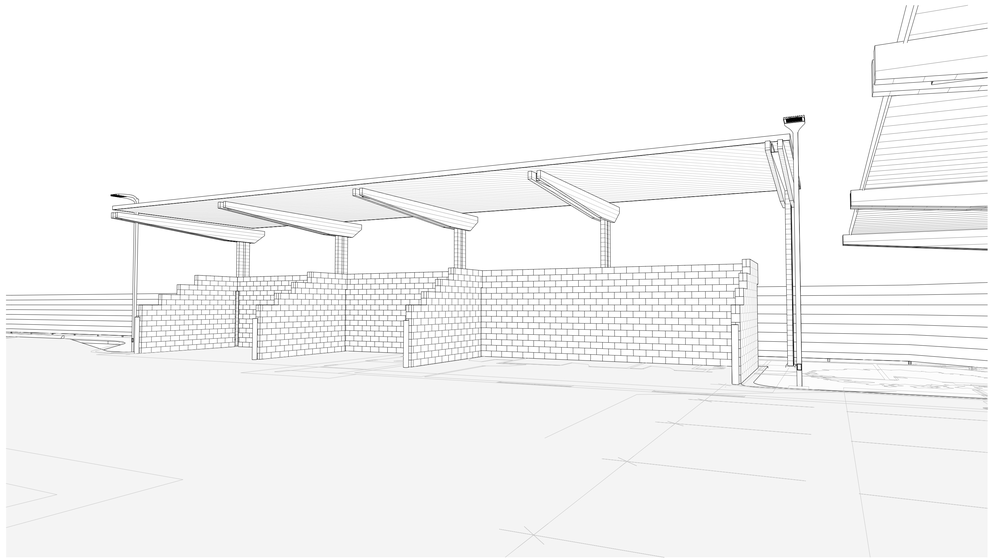
6 EXTERIOR EMPLOYEE BREAK AREA



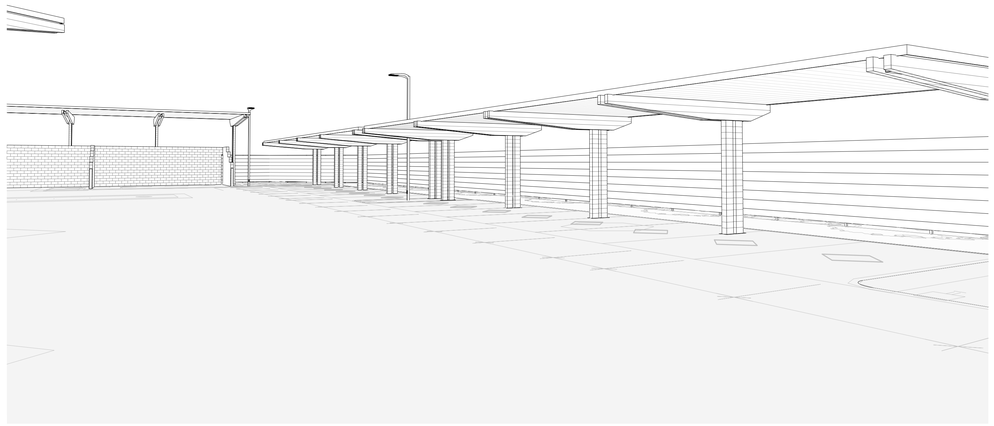
5 FLEET EV CHARGING PARKING CANOPY



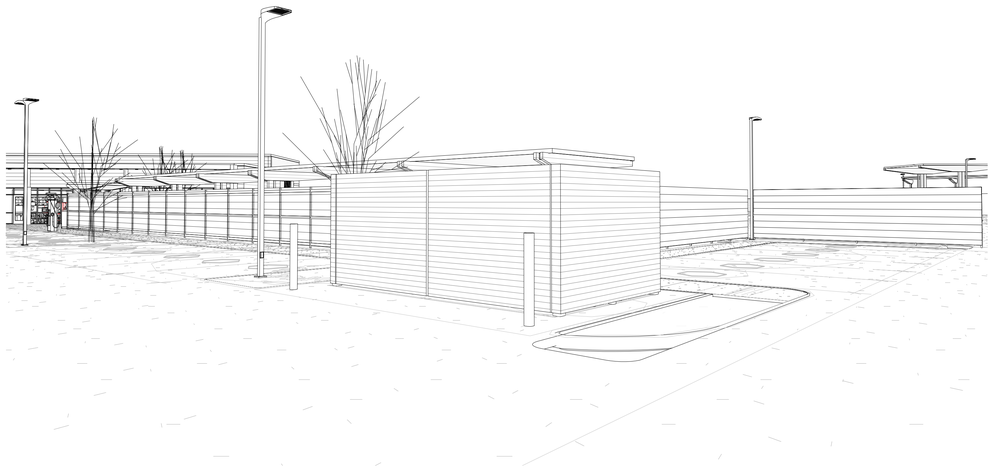
4 GENERATOR & VEHICLE MAINTENANCE RAMP



3 EXCESS MATERIAL STORAGE



2 SOUTH VEHICLE PARKING CANOPY



1 FACILITY DUMPSTER ENCLOSURE

5/7/2026 1:49:47 PM

DALLAS COUNTY
ROAD & BRIDGE DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

INTERIM REVIEW DOCUMENTS
This document is preliminary and is not intended for Regulatory Approval, Permit, or Construction Purposes. This document is issued under the authority of Fernando J. Andrade, 17868 on 05-04-2026 .

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
KR

Checked By:
KR

Sheet Title:
EXTERIOR PERSPECTIVES - SITE

Drawing No.

A11.08

GEOTECHNICAL INFORMATION

1. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON GEOTECHNICAL REPORT #94225404 PREPARED FOR ***PHASE 1*** OF THIS PROJECT BY TERRACON AND DATED MAY 23, 2023. PHASE 2 REPORT IS PENDING.

2. GEOTECHNICAL ENGINEER OF RECORD (GER) IS SOLELY RESPONSIBLE FOR ESTABLISHING FOUNDATION, SLAB-ON-GRADE AND PAVEMENT DESIGN CRITERIA, AND FOR THE CONSTRUCTION RECOMMENDATIONS FOR EXCAVATION, SUBGRADE PREPARATION, BACKFILLING AND COMPACTION.

3. GEOTECHNICAL INFORMATION INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS IS INTENDED TO REPLICATE THE RECOMMENDATIONS STATED IN THE GEOTECHNICAL ENGINEERING REPORT. PRESENTATION OF THIS INFORMATION IN THE STRUCTURAL DOCUMENTS DOES NOT DEMONSTRATE, STATE OR IMPLY GEOTECHNICAL EXPERTISE BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL OBTAIN A COPY OF THE REPORT AND COMPLY WITH THE RECOMMENDATIONS INDICATED THEREIN.

4. IF DISCREPANCIES BETWEEN THE REPORT AND CONSTRUCTION DOCUMENTS ARE DISCOVERED, THE REPORT SHALL GOVERN. ALL CLARIFICATIONS AND INTERPRETATIONS OF THE REPORT SHALL BE MADE BY THE GER AND REPORTED TO THE ARCHITECT FOR COORDINATION WITH THE DESIGN TEAM.

PIER FOUNDATION NOTES

1. BEARING STRATA SHOWN ON THE PIER DETAILS IS GRAY LIMESTONE.

2. FOUNDATION ALLOWABLE DESIGN SOIL VALUES:

   END BEARING - 40 ksf
   SKIN FRICTION - 6 ksf (COMPRESSION)
   4.5 ksf (TENSION)

3. ELEVATION OF TOP OF PIERS WHERE NOT GIVEN IS AT THE BOTTOM OF THE DEEPEST INTERSECTING BEAM OR WALL SUPPORTED BY THE PIER.

4. PIER HOLES SHALL BE CONCRETED WITHIN 8 HOURS AFTER DRILLING.

5. CONTRACTOR SHALL KEEP INDEPENDENT RECORDS OF PIER INSTALLATION. THOSE RECORDS SHALL BE COMPARED DAILY WITH THE TESTING LAB'S RECORDS. IF DISAGREEMENTS ARE FOUND, THEY ARE TO BE RESOLVED AT THAT DAILY MEETING. PAYMENT WILL BE BASED ON THE TESTING LAB'S RECORDS.

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

SUBGRADE PREPARATION

(Note to Engineers: The following notes must be heavily edited for the specific site conditions and recommendations presented in the geotechnical report. Engineers are encouraged to use the exact same language used by the geotechnical engineer. When the geotechnical report includes options/alternates for subgrade prep, these notes must clearly identify the option that has been selected. The notes should address the primary categories of Excavation, Preparation of Exposed Soils, Moisture Conditioning (if any), Backfill and Compaction, Special Conditions, Protection of Work, Construction Testing and Inspection, and Drainage/Grading. Add notes as required by specific conditions. Provide a specific description of the work including requirements for densities and moisture contents. In as much as possible, maintain the format indicated below.)

1. ALL SUBGRADE SHALL BE PREPARED IN STRICT CONFORMANCE TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. REFER TO THE GEOTECHNICAL REPORT, SUPPLEMENTARY LETTERS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

   ***(Identify Subgrade Preparation Option:** Include language that replicates the geotechnical report. The following paragraph is an example. It should be appropriately modified for each project.)*

   THE SUBGRADE SHALL BE IMPROVED TO REDUCE THE POTENTIAL FOR SUBGRADE MOVEMENT TO ON THE ORDER OF ONE INCH BY MOISTURE CONDITIONING 5 FEET OF THE IN-SITU SOILS IN CONJUCTION WITH A MINIMUM ONE FOOT CAP OF NON-EXPANSIVE SELECT FILL. MOISTURE CONDITIONING SHALL BE ACHIEVED BY EXCAVATION AND REPLACEMENT.

   THE FOLLOWING IS A SUMMARY OF THE INFORMATION CONTAINED IN THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS:

   ***(Engineers Note:** The notes presented below are intended as examples. The engineer should modify and add notes that replicate the requirements in the geotechnical report.)*

   ***(Excavation:** Identify the width, length and depth of the excavation.)*

   A. THE BUILDING EXCAVATION AREA SHALL EXTEND BEYOND THE BUILDING LINE A MINIMUM OF 5 FEET IN GENERAL. AT ALL ENTRANCES AND AT AREAS WITH SIDEWALKS/PAVING DIRECTLY ADJACENT TO THE BUILDING, EXTEND THE EXCAVATION AND SUBGRADE IMPROVEMENT AS SHOWN IN S2.1 AND S2.2. *(**Engineers Note**: On this project (02544-The Audi Store), the excavation and subgrade improvement were extended a minimum of 10 feet out from the building line, or to the curb, at all major pedestrian entrances. This information was more easily shown on the foundation plan than described by note. This client made it very clear that this project was a high-end retail project, with expensive finishes. Sidewalk movement at the doors was not tolerable. Therefore, structural stoops were also used at the main retail entrances.)*
   B. WITHIN THE BUILDING AREA, EXCAVATE AND REMOVE ALL FILL MATERIAL. REFER TO THE GEOTECHNICAL REPORT FOR APPROXIMATE DEPTHS OF FILL. THE TESTING LAB SHALL DETERMINE THROUGH FIELD OBSERVATION AND TESTING THAT ALL UNACCEPTABLE FILLS HAVE BEEN REMOVED.
   C. WITHIN THE BUILDING AREA, EXCAVATE SOILS AS REQUIRED TO PROVIDE A MINIMUM OF 6 FEET OF REWORKED MATERIAL BENEATH THE BOTTOM OF THE SELECT FILL PAD AT THE SALES, SHOWROOM AND SERVICE DRIVE AREAS AND A MINIMUM OF 4 FEET OF REWORKED MATERIAL AT THE SERVICE BAYS AND DETAILING AREAS. IN SOME AREAS OF THE SITE, NATURAL TAN LIMESTONE COULD BE ENCOUNTERED. IT IS NOT NECESSARY TO EXCAVATE THE NATURAL LIMESTONE.

   ***(Preparation of Exposed Soils:** Include notes regarding proof rolling, scarification and recompaction.)*

   D. SCARIFY EXPOSED CLAY SOILS TO A DEPTH OF 8 INCHES AND RECOMPACT TO A MINIMUM OF 92% OF STANDARD PROCTOR (ASTM D698) AT A MINIMUM OF +4 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT FOR THE SOIL AS DIRECTED IN THE GEOTECHNICAL REPORT.

   ***(Moisture Conditioning:** Include notes on moisture conditioning methods.)*

   E. MOISTURE CONDITION EXCAVATED CLAY SOILS TO ACHIEVE A UNIFORM MOISTURE CONTENT AS NOTED IN BELOW AND AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

   F. REPLACE MOISTURE CONDITIONED SOILS IN THIN LOOSE LIFTS LESS THAN 9 INCHES THICK AND UNIFORMLY COMPACT TO A MINIMUM OF 92% OF STANDARD PROCTOR (ASTM D698) AT A MINIMUM OF +4 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT FOR THE SOIL AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
   G. PROTECT EACH LIFT TO PREVENT DESICCATION PRIOR TO PLACEMENT OF A SUBSEQUENT LIFT.

   H. LIMESTONE FRAGMENTS GREATER THAN 4 INCHES SHALL BE REMOVED FROM THE SOILS OR BROKEN DOWN.

   I. CROWN THE MOISTURE CONDITIONED SOILS TO PROVIDE THE SPECIFIED MINIMUM THICKNESS OF SELECT FILL AT THE CENTER OF THE EXCAVATION. SLOPE THE CLAY SOILS AT A 1% GRADE OR A MINIMUM OF 6 INCHES TOWARD THE BUILDING PERIMETER, PROVIDING A GREATER DEPTH OF SELECT FILL AROUND THE BUILDING EDGE.

   ***(Backfill and Compaction:** Define acceptable materials and methods of placement.)*

   J. ESTABLISH FINISH GRADE BY INSTALLING NON-EXPANSIVE SELECT FILL WITHIN 48 HOURS OF COMPLETING THE INSTALLATION OF MOISTURE CONDITIONED SOILS.
   K. SELECT FILL SHALL CONSIST OF A VERY SANDY CLAY TO CLAYEY SAND WITH A LIQUID LIMIT OF LESS THAN 35 PERCENT AND A PLASTICITY INDEX BETWEEN 6 AND 15. ALL SELECT FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
   L. SPREAD THE SELECT FILL IN THIN LOOSE LIFTS NOT EXCEEDING 9 INCHES THICK AND UNIFORMLY COMPACT TO A MINIMIMU OF 95% OF ASTM D698 WITHIN +2 OR –2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT FOR THE SOIL AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
   M. PLACE FIRST LIFT OF SELECT FILL WET OF OPTIMUM TO PREVENT DRYING OF THE UNDERLYING SUBGRADE.
   N. PROTECT FILL TO PREVENT DESICCATION PRIOR TO PLACING A SUBSEQUENT LIFT.

   ***(Special Conditions:** Notes similar to the following will apply to most projects.)*

   O. BACKFILL AGAINST THE EXTERIOR FACE OF GRADE BEAMS SHALL BE MOISTURE CONDITIONED AND PROPERLY COMPACTED ON-SITE CLAYS.
   P. BACKFILL AT BUILDING ENTRANCES AND UNDER SITEWORK/PAVING SHALL BE MOISTURE CONDITIONED AND PROPERLY COMPACTED ON-SITE CLAYS. OUTSIDE THE BUILDING LINE, PLACE A SINGLE LIFT OF SELECT FILL (6 TO 8 INCHES) ABOVE THE CLAY TO REDUCE DESICCATION DURING CONSTRUCTION.
   Q. BACKFILL UTILITY TRENCHES WITH MOISTURE CONDITIONED AND PROPERLY COMPACTED ON-SITE CLAY SOILS. GRANULAR MATERIALS WILL NOT BE ALLOWED. DO NOT LEAVE UTILITY TRENCHES OPEN FOR EXTENDED PERIODS OF TIME. DO NOT ALLOW WATER TO FOLLOW TRENCHES TOWARD THE BUILDING EXCAVATION/PAD.
   R. PROVIDE A POSITIVE CUT-OFF WHEN BACKFILLING AT THE BUILDING PERIMETER FOR ALL UTILITY TRENCHES. BACKFILL MATERIAL USED AS A CUT-OFF SHALL BE A SEMI-IMPERMEABLE MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER.

   ***(Protection of Work:** Most of the following notes will apply to all projects. The engineer should modify and add notes to address conditions specific to this site.)*

   S. DURING CONSTRUCTION, PROVIDE POSITIVE DRAINAGE AWAY FROM THE EXCAVATION TO PREVENT PONDING OF WATER IN THE SELECT FILL. INSTALL DAMS, LEVEES, TRENCHES AND SUMPS TO DIVERT SURFACE RUNOFF FROM FLOODING THE BUILDING EXCAVATION/PAD.
   T. PROTECT COMPLETED WORK FROM EXCESSIVE DRYING. STEPS SHALL BE TAKEN TO PREVENT DESICCATION OF THE CLAYS AROUND THE PERIMETER OF THE STRUCUTURE WHERE THE SELECT FILL FEATHERS OUT OR THE CLAYS ARE EXPOSED BY CUTS.
   U. PROTECT LEAVE-OUTS IN THE FLOOR SLAB FROM PONDING WATER.

   (Site Drainage and Grading)

   V. ADJUST ALL GRADES TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE. OPEN GROUND (GRASSED LAWNS AND/OR LANDSCAPED BEDS) SHALL BE SLOPED AT A MINIMUM OF A 5 PERCENT GRADE FOR AT LEAST 10 FEET BEYOND THE PERIMETER OF THE BUILDING. CONTRACTOR SHALL REVIEW CIVIL, ARCHITECTURAL AND LANDSCAPE DRAWINGS AND REPORT ANY DEVIATIONS FROM THIS REQUIREMENT TO THE ARCHITECT AND STRUCTURAL ENGINEER.
   W. INSTALL ROOT BARRIERS IN PLANTER BEDS ADJACENT TO THE STRUCTURE. REFER TO LANDSCAPE DRAWINGS FOR INFORMATION. *(**Engineers Note:** This note if very specific to the project. Other geotechnical reports have called for similar requirements such as moisture barriers in planter beds. Coordinate this work with the landscape architect. Details and specifications for root barriers and moisture barriers should be provided by them.)*

2. CONTACT THE GEOTECHNICAL ENGINEER FOR ANY QUESTIONS REGARDING INTERPRETATION OR CLARIFICATION OF THE ABOVE INFORMATION.

3. FOUNDATION AND SUBGRADE PREPARATION SHALL BE MONITORED AND TESTED BY THE SOILS ENGINEER. REFER TO SPECIFICATIONS FOR QUALITY CONTROL REQUIREMENTS.

GENERAL NOTES

1. PROJECT SPECIFICATIONS ARE A PART OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL REVIEW THE SPECIFICATIONS AND NOTIFY ARCHITECT OF DISCREPANCIES BEFORE PROCEEDING WITH WORK.

2. STRUCTURAL DRAWINGS ARE AN INTEGRAL COMPONENT TO THE CONTRACT DOCUMENTS. CONTRACTOR SHALL REVIEW AND COORDINATE ACCORDINGLY.
   A. PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS, CONTRACTOR SHALL COMPARE STRUCTURAL DIMENSIONS AND SECTIONS WITH ARCHITECTURAL DIMENSIONS AND SECTIONS. DISCREPANCIES ARE TO BE REPORTED IN WRITING TO THE ARCHITECT.
   B. PRINCIPAL OPENINGS ARE SHOWN ON THESE DRAWINGS. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR OTHER OPENINGS NOT SHOWN.
   C. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND LOCATIONS OF SLAB DEPRESSIONS AND CURBS NOT SHOWN. PROVIDE POSITIVE SLOPE TO ALL DRAINS.
   D. CONTRACTOR SHALL COORDINATE PENETRATIONS, SLEEVES, CURBS, AND INSERTS REQUIRED FOR THE CONTRACT DOCUMENTS.
   E. CONTRACTOR SHALL VERIFY SIZE, WEIGHT, LOCATION, AND SUPPORT CONDITIONS OF MECHANICAL EQUIPMENT SUPPORTED ON OR SUSPENDED FROM THE ROOF OR FLOORS.
   F. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH ADJACENT STRUCTURES AND UTILITIES.
   G. CONTRACTOR SHALL NOTIFY IN WRITING THE ARCHITECT & ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.

3. EXISTING CONDITIONS MAY BE CONCEALED. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER IN WRITING OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS OR ITEMS SUCH AS CORROSION, ROT, DELAMINATION, OR CRACKS WHICH MAY ADVERSELY AFFECT CONSTRUCTION.

4. DIMENSIONS TO EXISTING OR ADJACENT CONSTRUCTION ARE BASED ON THE ORIGINAL CONSTRUCTION DOCUMENTS AND/OR APPROXIMATE FIELD MEASUREMENTS. THEY ARE TO BE USED FOR BID PURPOSES ONLY AND NOT FOR SHOP DRAWING PREPARATION OR CONSTRUCTION. FIELD MEASUREMENTS SHALL BE USED TO INSURE PROPER FIT UP OF FRAMING MEMBERS.

5. TEMPORARY SHORING AND BRACING DURING CONSTRUCTION
   A. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING OF COMPONENTS DURING CONSTRUCTION TO MEET REGULATORY REQUIREMENTS FOR SAFETY.
   B. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING OF WALLS AND GRADE BEAMS DURING CONSTRUCTION. SHORE WALLS AND GRADE BEAMS DURING THE BACKFILLING AND COMPACTION PROCESS.
   C. CONTRACTOR SHALL PROVIDE NECESSARY TEMPORARY BRACING AND SHORING DURING CONSTRUCTION UNTIL STRUCTURAL FRAMING AND DIAPHRAGMS ARE COMPLETED. TEMPORARY BRACING SHALL BE DESIGNED UNDER THE SUPERVISION OF A LICENSED ENGINEER.

6. SELECTION OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES, AS WELL AS SAFETY PRECAUTIONS AND PROGRAMS, ARE SOLELY THE CONTRACTOR'S RESPONSIBILITIES. AS SUCH, CONSTRUCTION ENGINEERING AND DESIGN RESULTING FROM THESE SELECTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.
   A. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, ENGINEERING OF SHORING AND SCAFFOLDING SYSTEMS; LOAD CHECKS AND STRUCTURAL MODIFICATIONS FOR STORAGE, STAGING, AND CONSTRUCTION EQUIPMENT LOADING; MEANS OF EGRESS FOR HEAVY EQUIPMENT; CRANE SELECTION, LOCATION, SUPPORT AND BRACING; TEMPORARY HOISTS, LIFTS AND PLATFORMS.
   B. CONTRACTOR SHALL ENSURE THAT APPROPRIATE ENGINEERING IS PERFORMED BY A LICENSED ENGINEER FOR THE WORK, CONSULTED WITH ON FIELD MODIFICATIONS, SPECIFY APPROPRIATE LEVELS OF INSPECTION OF THE WORK, AND TO REVIEW INSPECTION REPORTS.
   C. CONSTRUCTION ENGINEERING FEES HAVE NOT BEEN INCLUDED IN THE BASE FEE TO THE OWNER/ARCHITECT. IF REQUESTED, THE EOR MAY CONSIDER PERFORMING THESE SERVICES AS AN ADDITIONAL SERVICE PAID BY THE CONTRACTOR.

7. PRE-CONSTRUCTION MEETINGS SHALL BE CONDUCTED TO DISCUSS SUBGRADE PREPARATION, FOUNDATION CONSTRUCTION, WALL BACKFILL, VOID FORM SYSTEMS, CONCRETE FORMING & PLACING, AND TESTING & INSPECTION REQUIREMENTS.

8. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS AS LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.

DEFERRED SUBMITTALS NOTES

1. DEFERRED SUBMITTALS ARE PORTIONS OF THE OVERALL DESIGN WHICH ARE NOT SUBMITTED AT TIME OF PERMIT APPLICATION AND ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL.

2. DEFERRED SUBMITTALS WILL BE REVIEWED FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. SUBMITTAL REVIEW WILL NOT BE CONDUCTED FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF OTHER DETAILED INFORMATION SUCH AS DIMENSIONS AND QUANTITIES, OR FOR SUBSTANTIATING INSTRUCTIONS FOR INSTALLATION OR SYSTEMS DESIGNED BY THE CONTRACTOR WHICH REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

   REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR OF ANY CONSTRUCTION MEANS, METHODS, SEQUENCES OR PROCEDURES.

   APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

3. FOLLOWING DEFERRED SUBMITTALS ARE TO BE PROVIDED FOR REVIEW:
   A. CONCRETE FORMWORK / RETENTION SYSTEMS
   B. TEMPORARY SHORING / BRACING OF STRUCTURAL ELEMENTS
   C. PRE-ENGINEERED METAL BUILDING COMPONENTS
   D. STEEL BEAM AND VERTICAL BRACING CONNECTIONS
   E. STEEL FRAMING CONNECTION CALCULATIONS
   F. STEEL STAIRS
   G. COLD-FORMED METAL FRAMING
   H. PRE-ENGINEERED CANOPIES
   I. PRE-ENGINEERED COLD-FORMED METAL TRUSSES
   J. PRE-ENGINEERED WOOD JOISTS, TRUSSES & ELEMENTS

   SUPPLIER'S ENGINEERS SHALL PROVIDE SIGNED AND SEALED CALCULATIONS WITH THE SUBMITTAL FOR REVIEW.

   REVIEW WILL BE LIMITED TO CONFORMANCE WITH DESIGN AND PERFORMANCE CRITERIA SPECIFIED IN THE CONSTRUCTION DOCUMENTS AND THE INTERFACE BETWEEN THESE ITEMS/SYSTEMS AND THE BUILDING STRUCTURE. THE MANUFACTURER/SUPPLIER AND ITS SPECIALTY STRUCTURAL ENGINEER REMAIN RESPONSIBLE FOR THE DESIGN OF THE ITEM/SYSTEM WILL RETAIN ALL RIGHTS AND RESPONSIBILITIES FOR THE DESIGN OF THE PRODUCT AND THE CONNECTIONS TO THE BUILDING STRUCTURE.

   NO WORK ON STRUCTURAL ELEMENTS SUPPORTING OR RELATED TO THESE ITEMS IS TO PROCEED UNLESS THE REVIEW STAMP CLEARLY INDICATES "REVIEWED" OR "REVIEWED, SEE COMMENTS" BY THE ENGINEER.

4. FOLLOWING SHOP DRAWINGS ARE TO BE PROVIDED FOR APPROVAL:
   A. VOID FORM PRODUCT DATA
   B. CONCRETE MIXES
   C. REINFORCING STEEL
   D. STRUCTURAL STEEL
   E. STEEL JOISTS AND JOIST GIRDERS
   F. METAL DECKING

   SHOP DRAWINGS ARE TO BE DISTRIBUTED ONLY FROM RETURNED SUBMITTALS BEARING AN INITIALED REVIEW STAMP AND WORK ON THESE ITEMS SHALL NOT PROCEED UNLESS THE STAMP CLEARLY INDICATES THE DRAWINGS ARE "APPROVED" OR "APPROVED AS NOTED."

5. CONCRETE IS A MATERIAL DESIGNED BY THE SUPPLIER TO MEET THE STRENGTH AND PERFORMANCE CRITERIA SPECIFIED IN THE CONTRACT DOCUMENTS. CONCRETE MIX DESIGNS SHALL BE IN CONFORMANCE WITH ACI 318. SUBMIT MIX DESIGNS AND THE TESTING LAB REVIEW TO THE ARCHITECT/ENGINEER FOR REVIEW.

   MANY VARIABLES, INCLUDING ENVIRONMENTAL CONDITIONS AFFECT THE QUALITY OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING VARIABLES AND REQUESTING MIX MODIFICATIONS AND SHALL BE SOLELY RESPONSIBLE FOR THE QUALITY OF CONCRETE DELIVERED AND PLACED ON THE SITE.

6. BEFORE SUBMISSION FOR REVIEW, GENERAL CONTRACTOR SHALL PRE-CHECK SUBMITTALS. SUBMITTALS MUST BEAR AN INITIALED REVIEW STAMP OF THE GENERAL CONTRACTOR. SUBMITTALS WITHOUT REVIEW STAMPS WILL BE RETURNED WITHOUT REVIEW AND SHALL NOT BE CAUSE FOR CLAIMS OF DELAY.

7. SCHEDULE SUBMITTALS SUFFICIENTLY IN ADVANCE OF THE DATE REQUIRED TO ALLOW REASONABLE TIME FOR PROCESSING AND REVIEW BY THE DESIGN TEAM. THIS SHALL INCLUDE A MINIMUM OF TEN WORKING DAYS FOR ENGINEER'S PROCESSING AND REVIEW. INCLUDE TIME FOR CONTRACTOR'S RESUBMISSION AND SUBSEQUENT REVIEW IF NECESSARY.

   SHORTER REVIEW PERIODS WILL ONLY BE HONORED WITH PRIOR WRITTEN CONSENT. THESE ACCELERATED SERVICES, AND APPROPRIATE COMPENSATION, MUST BE NEGOTIATED WITH THE ENGINEER AND ARCHITECT IN ADVANCE.

   TEN DAY REVIEW PERIODS CAN NOT BE HONORED WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED AT ONE TIME. WHEN THIS HAPPENS, THE CONTRACTOR SHALL SUBMIT AN ITEMIZED LIST INDICATING PRIORITIES AND REASONABLE RETURN DATES.

   REVIEW OF RESUBMITTALS WILL BE LIMITED TO ONLY EARLIER COMMENTS AND IS NOT AN EXTENSIVE REVIEW.

8. USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS, INCLUDING THE USE OF ELECTRONIC FILES, BY ANY CONTRACTOR IN LIEU OF THE INDEPENDENT PREPARATION OF SHOP DRAWINGS, SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

9. STRUCTURAL FRAMING WAS BASED ON PRE-BID MEP EQUIPMENT AND INITIAL ELEVATOR INFORMATION. MODIFICATIONS MAY BE NECESSARY IF DIFFERENT EQUIPMENT IS SELECTED OR IF DIFFERENT CRITERIA ARE REQUIRED. BASED ON THE EXTENT OF THE CHANGES, ADDITIONAL SERVICES FOR STRUCTURAL REDESIGN MAY BE REQUIRED. GENERAL CONTRACTOR SHALL INCLUDE A CONTINGENCY FOR THIS REVISED DESIGN AND CONSTRUCTION WORK. COSTS OF THE DESIGN AND CONSTRUCTION REVISIONS SHALL BE BORNE BY THE CONTRACTOR.

   GENERAL CONTRACTOR TO SUBMIT FINAL WEIGHTS AND CUT-SHEETS FOR REVIEW AND APPROVAL IF EQUIPMENT DIFFERS FROM WHAT IS SHOWN ON THE CONSTRUCTION DOCUMENTS.

DESIGN DATA

1. THE DESIGN OF THE STRUCTURE AND PARTS THEREOF IS IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE, AS AMENDED AND ADOPTED BY THE CITY OF DALLAS, TEXAS.

2. FLOOR LIVE LOADS.

AREA	UNIFORM	CONCENTRATED	IMPACT	LIVE LOAD REDUCTION
OFFICES	100 psf	2.0 kips	-	YES, PER IBC 1607.11.1
STORAGE LIGHT	125 psf	- kips	-	YES, PER IBC 1607.11.1.2

3. ROOF LIVE LOADS:

AREA	UNIFORM	SPECIAL COMMENTS	LIVE LOAD REDUCTION
ROOF, GENERAL	20 psf	-	YES, PER IBC 1607.13.2
ROOF, EQUIP LOADS		SEE ROOF PLAN	

4. SNOW LOADS:

GROUND SNOW LOAD	5 psf	MINIMUM ROOF LIVE LOADS GOVERN DESIGN

5. WIND DESIGN DATA:

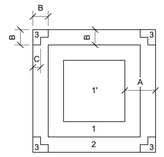
BASIC WIND SPEED (3 SECOND GUST)	105 mph
ASD WIND SPEED V_{asd}	81 mph
RISK CATEGORY	II
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	+/- 0.18
COMPONENTS AND CLADDING	PER ASCE 7-16

FACTORED COMPONENTS AND CLADDING WALL LOADS				
	POSITIVE PRESSURE (psf)		NEGATIVE PRESSURE (psf)	
AREA (SQ FT)	INTERIOR ZONE	CORNER ZONE	INTERIOR ZONE	CORNER ZONE
LESS THAN 10	-	-	-	-
50	-	-	-	-
200	-	-	-	-
GREATER THAN 500	-	-	-	-

CORNER ZONE IS A DISTANCE OF x'-0" FROM WALL CORNERS
LINEAR INTERPOLATE FOR LOADS BETWEEN SPECIFIED AREAS

FACTORED COMPONENTS AND CLADDING ROOF LOADS								
	POSITIVE PRESSURE (psf)				NEGATIVE PRESSURE (psf)			
AREA (SQ FT)	ZONE 1'	ZONE 1	ZONE 2	ZONE 3	ZONE 1'	ZONE 1	ZONE 2	ZONE 3
LESS THAN 10	-	-	-	-	-	-	-	-
100	-	-	-	-	-		-	-
200	-	-	-	-	-	-	-	-
GREATER THAN 500	-	-	-	-	-	-	-	-

INTERIOR ZONE, "A" IS A DISTANCE OF X'-X" FROM EDGE OF BUILDING
PERIMETER ZONE, "B" IS A DISTANCE OF X'-X" FROM EDGE OF BUILDING
CORNER ZONE, "C" IS A DISTANCE OF X'-X" FROM EDGE OF BUILDING
LINEAR INTERPOLATE FOR LOADS BETWEEN SPECIFIED AREAS



ROOF WIND LOAD LAYOUT

6. SEISMIC DESIGN DATA:

RISK CATEGORY	II	
SEISMIC IMPORTANCE FACTOR, I_e	1.0	
MAPPED SPECTRAL RESPONSE ACCEL.	S_s = 0.093	S_1 = 0.053
SITE CLASS	C	
SPECTRAL RESPONSE COEFFICIENTS	S_{DS} = 0.081	S_{D1} = 0.053
SEISMIC DESIGN CATEGORY	A	
BASIC SEISMIC-FORCE-RESISTING SYSTEM	XXXX	
DESIGN BASE SHEAR	- kips	
SEISMIC RESPONSE COEFFICIENT, C_s	XXXX	
RESPONSE MODIFICATION FACTOR, R	XXXX	
ANALYSIS PROCEUDRE USED	XXXX	

7. FLOOD DESIGN DATA:

THIS PROJECT IS NOT LOCATED WITHIN A FLOOD HAZARD AREA

Geisler Partners Consulting Engineers, Inc.
Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

Drawn By:
SRP

Checked By:
KGN

Sheet Title:
General Notes

Drawing No.
S0.01

5/7/2026 10:54:46 AM

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

COLD FORMED METAL FRAMING OF THE PERIMETER WALL SYSTEM NOTES

1. THE EXTERIOR (PERIMETER) WALL SYSTEM IS A NON-LOAD BEARING CURTAIN WALL SYSTEM THAT SHALL BE DESIGNED AND ENGINEERED BY A SPECIALTY ENGINEER ENGAGED BY THE SUPPLIER.
2. THE SUPPLIER SHALL ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO PREPARE DESIGN CALCULATIONS, SHOP DRAWINGS, AND OTHER STRUCTURAL DATA. THE SPECIALTY ENGINEER SHALL PERFORM AND/OR SPECIFY AND REVIEW CONSTRUCTION TESTING AND INSPECTION TO SATISFY GOVERNING CODES.
3. THE PROFESSIONAL ENGINEER SHALL BE LEGALLY QUALIFIED TO PRACTICE IN THE STATE OF THE PROJECT AND SHALL BE EXPERIENCED IN PROVIDING ENGINEERING SERVICES OF THE KIND INDICATED. ENGINEERING SERVICES ARE DEFINED AS THOSE PERFORMED FOR INSTALLATIONS OF COLD-FORMED METAL FRAMING THAT ARE SIMILAR TO THOSE INDICATED FOR THIS PROJECT IN MATERIAL, DESIGN, AND EXTENT.
4. DESIGN AND PROVIDE COLD-FORMED METAL FRAMING, ACCESSORIES AND CONNECTIONS TO THE STRUCTURAL FRAME, CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN THE LIMITS STATED IN THE PROJECT SPECIFICATIONS.
5. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." LATEST EDITION.
6. ALL FRAMING MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL (G90 COATING), CORRESPONDING TO THE REQUIREMENTS OF ASTM A653, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 33 mil (20 GA) AND 43mil (18 GA) STUDS, 50 KSI FOR 54 mil (16 GA), 68 mil (14 GA), AND 97 mil (12 GA) STUDS, AND 33 KSI FOR TRACK MEMBERS.
7. PROVIDE SIZES AS SHOWN ON THE CONTRACT DOCUMENTS, AT A MAXIMUM SPACING OF 16" O.C. GENERALLY, THE SYSTEM MAY INCLUDE DIAGONAL KICKERS ABOVE THE CEILING LINE. KICKERS MUST NOT INTERFERE WITH OTHER BUILDING SYSTEMS. WHERE KICKERS ARE PRECLUDED BY OTHER SYSTEMS, INCREASE THE GAGE THICKNESS AND/OR DECREASE THE STUD SPACING TO COMPLY WITH THE PERFORMANCE CRITERIA SPECIFIED.
8. FASTENING OF COMPONENTS TO EACH OTHER SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. FASTENING OF COMPONENTS TO STRUCTURAL MEMBERS SHALL BE BY SELF-DRILLING SCREWS, POWER ACTUATED NAILS OR WELDING. WELDED CONNECTIONS SHALL ONLY BE ALLOWED WITH MATERIAL THAT IS A MINIMUM OF 16 GAGE. ALL WELDS SHALL BE TOUCHED UP WITH A CORROSION INHIBITING PAINT.
9. TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.
10. SPLICES IN STUDS SHALL NOT BE PERMITTED.
11. PROVIDE AND INSTALL BRIDGING AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE ASSEMBLY IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. AT WALLS THAT DO NOT HAVE SHEATHING ON BOTH FACES, PROVIDE QUANTITY AND TYPE OF BRIDGING TO ADEQUATELY BRIDGE ALL STUDS PER THE MANUFACTURER'S RECOMMENDATIONS.
12. AT WALL OPENINGS, PROVIDE DOUBLE JAMB STUDS AT OPENINGS LESS THAN 4'-0", AND TRIPLE JAMB STUDS AT ANY OPENING GREATER THAN 4'-0". OVER ALL WALL OPENINGS, PROVIDE A BOX HEADER WITH DOUBLE STUDS AND TOP AND BOTTOM TRACKS.
13. PROVIDE DIAGONAL STRAP BRACING WITH MULTIPLE STUD PACKS AT CHORDS AS INDICATED IN THE CONTRACT DOCUMENTS.

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

PREMANUFACTURED BUILDING NOTES

1. SEE PREFABRICATED BUILDING MANUFACTURER'S DRAWINGS FOR ROOF METAL DECK, PURLINS, AND FRAMING.
2. THE GENERAL CONTRACTOR SHALL PROVIDE AND SET ANCHOR BOLTS AND EMBED PLATES AS PER PREFABRICATED BUILDING MANUFACTURER'S DRAWINGS.
3. THE CONTRACTOR SHALL COMPARE STRUCTURAL DRAWINGS WITH PREFABRICATED BUILDING MANUFACTURER'S DRAWINGS AND REPORT ANY DISCREPANCY TO THE ENGINEER PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
4. PREMANUFACTURED BUILDING SHOP DRAWINGS (PLANS, DETAILS, CALCULATIONS) SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER, IN THE STATE OF THE PROJECT.
5. METAL BUILDING DESIGN LOADS SHALL BE AS FOLLOWS:

A.	WIND:	SEE GENERAL NOTES LATERAL DEFLECTION LIMIT H/240 *	
B.	GRAVITY:	ROOFLIVE LOAD:	20 psf REDUCABLE PER CODE
		ROOF DEAD LOAD:	STRUCTURE WEIGHT + _____ psf COLLATERAL + MECHANICAL UNITS AS SHOWN.
		DEFLECTION LIMITS:	LL = L/360 * TOTAL = L/240 *

***NOTE TO RLG ENGINEERS SPECIFER: Tailor the deflection limits to the requirements of your project.**

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

LOAD BEARING STRUCTURAL MASONRY

1. STRUCTURAL MASONRY SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530 / ASCE 5 - LATEST EDITION.
2. HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C90, LIGHTWEIGHT, TYPE N, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1900 psi ON THE NET AREA OF THE BLOCK. DESIGN BASED ON AN ULTIMATE COMPRESSIVE STRENGTH f'm = 2500 psi.
3. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S.
4. GROUT SHALL CONFORM TO ASTM A476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi. USE COARSE GROUT IN TYPICAL APPLICATION. USE FINE GROUT IN 4" AND 6" CMU WALLS AND IN ANY CELL REINFORCED WITH MORE THAN ONE BAR.
5. REFER TO REINFORCING STEEL NOTES FOR REINFORCEMENT USED IN MASONRY CONSTRUCTION. ALL REINFORCING TO BE GRADE 60. PRIOR TO FABRICATION SUBMIT SHOP DRAWINGS FOR REVIEW, INCLUDING WALL ELEVATIONS SHOWING ALL REINFORCING STEEL.
6. VERTICAL REINFORCING SHALL BE _____ BARS AT A MAXIMUM SPACING OF _____" O.C., UNLESS OTHERWISE NOTED ON DRAWINGS. THE FIRST CELL AT CORNERS AND ENDS OF WALLS SHALL BE REINFORCED WITH 1-# ____ BAR AND GROUTED FULL. ON EACH SIDE OF WALL OPENINGS 1-#4 BAR EXTENDING 2'-0" BEYOND CORNERS OF OPENING SHALL BE PLACED. ALL REINFORCED CELLS SHALL BE FILLED SOLIDLY WITH GROUT. REFER TO DETAILS FOR SPECIAL REINFORCEMENT AT SUPPORTS.
7. REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILED ON THE PLANS.
8. REINFORCING STEEL SHALL BE LAPPED 60 BAR DIAMETERS WHERE SPLICED AND SHALL BE WIRED TOGETHER.
9. HORIZONTAL WALL REINFORCING SHALL BE EXTRA HEAVY HOHMANN & BARNARD COMPANY (LADUR TYPE) AT 1'-4" O.C. FOR 12" CMU AND STANDARD HOHMANN & BARNARD COMPANY (LADUR TYPE) AT 1'-4" O.C. FOR 8" CMU. IN LIEU OF HOHMANN & BARNARD COMPANY REINFORCEMENT THE CONTRACTOR MAY PROVIDE HORIZONTAL BOND BEAMS LOCATED 48" O.C. VERTICALLY AND REINFORCED WITH 2-#4 CONTINUOUS BARS.
10. ALL REINFORCING SHALL BE IN PLACE PRIOR TO GROUTING. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT TOP, BOTTOM, AND AT INTERVALS NOT FURTHER APART THAN 192 BAR DIAMETERS BY WALL-BRAC VERTICAL STEEL POSITIONER AS MANUFACTURED BY W.C.R. FABRICATORS, OR AN EQUIVALENT POSITIONER.
11. PROVIDE CONTINUOUS CMU BOND BEAMS (8" MIN. DEPTH) REINFORCED WITH 2-#4 CONTINUOUS BARS AT TOP OF PARAPETS AND AT ROOF FRAMING ELEVATION FOR FULL LENGTH OF ALL WALLS. WHERE BOND BEAMS REQUIRE SLOPES, PROVIDE 16" DEEP BOND BEAM AND CUT TO PROVIDE AN 8" MINIMUM DEPTH. CONTINUE HORIZONTAL REINFORCEMENT THROUGH MASONRY COLUMNS AND PILASTERS.
12. PROVIDE 2-#4 CORNER BARS (2'-6"x2'-6"), LAP WITH CONTINUOUS BARS IN ALL BOND BEAMS AT CORNERS AND WALL INTERSECTIONS.
13. PROVIDE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS WHERE SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, AND NOT TO EXCEED 30 FEET O.C. PROVIDE MATCHING CONTROL JOINTS IN FINISH MATERIALS (i.e. BRICK, STUCCO, etc.). VERTICAL CELLS ON EACH SIDE OF CONTROL JOINTS SHALL BE REINFORCED AND GROUTED TO MATCH THE TYPICAL WALL REINFORCEMENT.
14. AT WALL CONTROL JOINTS, CONTINUE BOND BEAM REINFORCEMENT THROUGH JOINT AND DISCONTINUE ALL OTHER HORIZONTAL WALL REINFORCING AT JOINT.
15. ALL UNITS SHALL BE LAID WITH FULL MORTAR BEDS ON THE FACE SHELLS. ALL HEAD JOINTS SHALL BE FILLED SOLIDLY WITH MORTAR FOR A DISTANCE IN FROM THE FACE OF THE UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS. UNLESS THE WALL IS TO BE POURED SOLID, END WALLS AND CROSS WEBS FORMING CELLS TO BE FILLED SHALL BE FULLBEDDED IN MORTAR TO PREVENT LEAKAGE OF GROUT.
16. ALL DOWELS, ANCHOR BOLTS, AND HEADED STUDS SHALL BE SET IN SOLID GROUTED CELLS.
17. GROUT ALL CELLS SOLID BELOW GRADE.

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

STEEL JOIST NOTES

1. STEEL JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND LOAD TABLE FOR OPEN WEB STEEL JOISTS, ADOPTED BY THE STEEL JOIST INSTITUTE LATEST EDITION.
2. JOIST MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE. JOIST ERECTION SHALL CONFORM TO ALL APPLICABLE SAFETY STANDARDS.
3. WHEN SPECIAL JOISTS ARE INDICATED ON PLAN (SP), COMPLY WITH THE STANDARD SPECIFICATIONS AND SPECIAL DESIGN CRITERIA AS NOTED ON THE DRAWINGS. SPECIAL DESIGN CRITERIA MAY INCLUDE LOADING, END MOMENTS, WIND UPLIFT, DEFLECTION LIMITS, MAXIMUM WIDTHS, SPECIAL BRIDGING, BOTTOM CHORD BRACING, CHORD STIFFENERS, BEARING CONDITIONS, SPECIAL SEATS, SPECIAL CHORD CONFIGURATIONS, CLEARANCE FOR DUCTS THROUGH MEMBERS, ETC. PROVIDE ALL ACCESSORIES REQUIRED TO COMPLY WITH THE STANDARD SPECIFICATIONS AND THE DESIGN CRITERIA.
4. DESIGN ALL JOISTS TO RESIST NET WIND UPLIFT FORCES AS FOLLOWS:
   CORNER ZONE: _____psf
   PERIMETER ZONE: _____psf
   INTERIOR ZONE: _____psf
   REFER TO PLANS FOR ANY SPECIAL CONDITIONS
5. ALL HANGERS SUPPORTING MECHANICAL EQUIPMENT, ETC., FROM THE BOTTOM CHORD OF STEEL JOISTS SHALL BE LOCATED AT THE PANEL POINTS OF THE JOISTS.
6. EXTEND BOTTOM CHORDS OF ALL JOISTS CENTERED ON COLUMNS AND WELD THE BOTTOM CHORDS TO THE COLUMNS AND/OR WALLS EACH END. DO NOT CONNECT BOTTOM CHORDS OF JOISTS TO THE COLUMNS UNTIL THE ROOF (AND/OR) FLOOR DEAD LOAD IS APPLIED.
7. PROVIDE BOTTOM CHORD CEILING EXTENSIONS WHERE REQUIRED BY ARCHITECTURAL DETAILS.
8. JOIST BRIDGING SHALL BE FURNISHED AND INSTALLED TO MEET THE DESIGN AND SPACING REQUIREMENTS OF THE STEEL JOIST INSTITUTE SPECIFICATIONS FOR OPEN WEB JOISTS. PROVIDE BOLTED DIAGONAL BRIDGING FOR ERECTION STABILITY AS REQUIRED BY THE STANDARD SPECIFICATIONS, THE GOVERNING BUILDING CODE AND/OR OSHA. PROVIDE ADDITIONAL BRIDGING AS REQUIRED BY DESIGN TO RESIST WIND UPLIFT FORCES INDICATED IN NOTES OR ON DRAWINGS, INCLUDING A SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF JOISTS.
9. DEPTH OF JOISTS SEATS SHALL BE 2 1/2" FOR SHORT SPAN JOISTS AND 5" FOR LONG SPAN JOISTS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
10. PROVIDE DOUBLE ANGLES IN LIEU OF RODS FOR BOTTOM CHORD OF ALL JOISTS.
11. JOISTS SHALL BE WELDED TO SUPPORTING STEEL MEMBERS.
12. PROVIDE FLAT BEARING FOR ALL JOISTS.
13. THE FOLLOWING MINIMUM BEARING LENGTHS PARALLEL TO THE LENGTH OF THE JOIST SHALL BE PROVIDED PER SJI STANDARD SPECIFICATIONS.

    BEARING ON STEEL 2 1/2"
    BEARING ON CONC OR MASONRY W/BEARING PLATE 4"
14. WHERE END ANCHORAGE FOR JOISTS ARE NOT SHOWN OR NOTED, THE FOLLOWING MINIMUM ANCHORAGES SHALL BE PROVIDED:

    STEEL SUPPORTS:

    TWO 1/8" FILLET WELDS x 1" LONG OR EQUIVALENT WELD

    OR

    TWO 1/2" DIA A325 BOLTS.

    CONC OR MASONRY SUPPORTS:

    TWO 1/2" DIA x 6" LONG HEADED STUD ANCHORS WELDED TO STEEL BEARING PLATE AND FULLY EMBEDED IN CONC OR SOILD MASONRY UNIT.
15. JOISTS SHALL BE CAMBERED THE MINIMUM RECOMMENDED CAMBER AS INDICATED IN THE STEEL JOIST INSTITUTE SPECIFICATIONS.
16. WHERE JOISTS ARE UTILIZED, AND COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, A JOIST SHALL BE FIELD BOLTED AT COLUMNS (EACH END OF JOIST) TO PROVIDE LATERAL STABILITY DURING CONSTRUCTION.
17. DAMAGED JOISTS WILL BE REJECTED. THE CONTRACTOR AND THE JOIST MANUFACTURER SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING DAMAGED JOISTS. ALL REPAIRS SHALL BE ENGINEERED BY THE JOIST MANUFACTURER AND REPAIR DETAILS, SIGNED AND SEALED BY A REGISTERED ENGINEER (IN THE STATE OF THE PROJECT) SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW. AN INDEPENDENT TESTING LAB SHALL INSPECT ALL REPAIRS. AFTER SUCCESSFUL COMPLETION OF THE REPAIR WORK, THE JOIST MANUFACTURER SHALL SUBMIT THE TESTING AGENCY'S REPORTS ALONG WITH A LETTER STATING THAT THE DAMAGED MEMBERS HAVE BEEN SATISFACTORILY REPAIRED.
18. HANGERS AND OTHER SUPPORTS FOR MECHANICAL, ELECTRICAL, PLUMBING, ETC SHALL BE LOCATED AT THE INTERSECTION OF THE CHORD AND WEB (PANEL POINT). CONCENTRATED LOADS IN EXCESS OF 200 LBS MUST BE APPROVED BY THE ENGINEER OF RECORD.
19. ALL PIPING LARGER THAN 4", PARALLEL TO JOISTS, SHALL BE HUNG FROM A MINIMUM OF TWO JOISTS, AND SUPPORTS SHALL BE ATTACHED AT PANEL POINTS ONLY.

[ENGINEERS NOTE THE FOLLOWING:

MOST MAJOR BUILDING CODES PRESCRIBE SPECIAL ZONES FOR WIND UPLIFT AT THE PERIMETER OF EACH ROOF PLANE AND AT RIDGES. IN ADDITION TO SPECIFYING THE FORCES IN THE NOTES ABOVE, A DESCRIPTION OF THE SPECIAL ZONES MUST BE GIVEN TO THE CONTRACTOR. IT IS PREFERED TO SHOW THESE SPECIAL ZONES BY SHADING ON THE ROOF PLAN. GENERALLY, THE PERIMETER ZONE IS A MINIMUM OF 10 FEET WIDE OR TWO JOIST SPACES. THIS SHOULD BE CONFIRMED FOR EACH PROJECT BY RESEARCHING THE CODE. THE WIDTH OF THE ZONE SHOULD BE COORDINATED WITH SPECIAL ZONES FOR DECK ATTACHMENT SO THAT THE PLAN DOES NOT BECOME TOO COMPLICATED WITH MULTIPLE ZONES.

OUR CURRENT NOTES AND SPECIFICATIONS REQUIRE THE MANUFACTURER TO DESIGN FOR THESE UPLIFT FORCES AND TO PROVIDE ALL SPECIAL BRIDGING REQUIRED.]

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

JOIST GIRDER NOTES

1. JOIST GIRDERS SHALL BE DESIGNED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS. JOIST GIRDER DEPTHS, NUMBER OF PANEL POINTS, AND LOADS ARE INDICATED ON PLANS. THE JOIST GIRDER MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE.
2. JOIST GIRDERS SHALL BE WELDED TO SUPPORTING STEEL.
3. JOIST GIRDERS SHALL BE CAMBERED THE MINIMUM RECOMMENDEED CAMBER AS INDICATED IN THE STEEL JOIST INSTITUTE SPECIFICATIONS.
4. COMPRESSION CHORDS SHALL BE DESIGNED WITH AN UNBRACED LENGTH IN THE LATERAL DIRECTION EQUAL TO THE SPACING BETWEEN THE JOIST BEARING POINTS.
5. STANDARD DEPTH OF JOIST GIRDER SEATS SHALL BE 7 1/2". IF A GREATER DEPTH IS REQUIRED, GIRDER MANUFACTURER SHALL COORDINATE WITH STEEL FABRICATOR.
6. GIRDER SIZES SHALL BE INDICATED ON SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED UPON REQUEST.
7. DAMAGED JOISTS WILL BE REJECTED. THE CONTRACTOR AND THE JOIST MANUFACTURER SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING DAMAGED JOISTS. ALL REPAIRS SHALL BE ENGINEERED BY THE JOIST MANUFACTURER AND REPAIR DETAILS, SIGNED AND SEALED BY A REGISTERED ENGINEER (IN THE STATE OF THE PROJECT) SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW. AN INDEPENDENT TESTING LAB SHALL INSPECT ALL REPAIRS. AFTER SUCCESSFUL COMPLETION OF THE REPAIR WORK, THE JOIST MANUFACTURER SHALL SUBMIT THE TESTING AGENCY'S REPORTS ALONG WITH A LETTER STATING THAT THE DAMAGED MEMBERS HAVE BEEN SATISFACTORILY REPAIRED.
8. DESIGN AND ANCHOR JOIST GIRDERS TO RESIST NET WIND UPLIFT FORCES AS INDICATED IN STEEL JOIST NOTES. PROVIDE ADDITIONAL BOTTOM CHORD BRACING AS REQUIRED TO SATISFY DESIGN REQUIREMENTS INCLUDING BOTTOM CHORD BRACING AT OR NEAR THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF JOIST GIRDER.
9. WHEN SPECIAL JOIST GIRDERS ARE INDICATED ON PLAN, COMPLY WITH THE STANDARD SPECIFICATIONS AND SPECIAL DESIGN CRITERIA AS NOTED ON THE DRAWINGS. SPECIAL DESIGN CRITERIA MAY INCLUDE LOADING, END MOMENTS, WIND UPLIFT, DEFLECTION LIMITS, MAXIMUM WIDTHS, SPECIAL BRACING, BOTTOM CHORD BRACING, CHORD STIFFENERS, BEARING CONDITIONS, SPECIAL SEATS, SPECIAL CHORD CONFIGURATIONS, CLEARANCE FOR DUCTS THROUGH MEMBERS, ETC. PROVIDE ALL ACCESSORIES REQUIRED TO COMPLY WITH THE STANDARD SPECIFICATIONS AND THE DESIGN CRITERIA.

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

METAL ROOF DECK NOTES

1. ROOF METAL DECK SHALL BE 1 1/2" DEEP, 22 GAGE WIDE RIB GALVANIZED (G60) METAL DECK. (VULCRAFT TYPE 1.5 B 22 OR EQUIVALENT.)
   A. DECK SHALL BE INSTALLED IN 3-SPAN LENGTHS ONLY. NO 2-SPAN CONDITIONS WILL BE ALLOWED.
   B. DECK CONNECTIONS SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON PLAN):
      1. SIDELAPS: #10 TEK SCREWS AT 18" (INTERIOR ZONE)
      2. SIDELAPS: #10 TEK SCREWS AT 9" (PERIMETER ZONE)
      3. AT SUPPORTS: PUDDLE WELDS AT 12" O.C. (INTERIOR ZONE)
      4. AT SUPPORTS: PUDDLE WELDS AT 6" O.C. (PERIMETER ZONE)
   C. PUDDLE WELDS SHALL BE 5/8" DIAMETER FULL FUSION (MINIMUM). ALL WELDS SHALL BE MADE WITH A.W.S. E70 ELECTRODES AND METAL AROUND WELDS SHALL BE COMPLETELY INTACT AFTER WELDING.
2. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECKS.

[ENGINEERS NOTE THE FOLLOWING FOR FACTORY MUTUAL COMPLIANCE:

FACTORY MUTUAL REQUIRES SPECIAL ATTACHMENT OF THE DECK AT THE PERIMETER OF EACH ROOF PLANE (INCLUDING RIDGES). A DESCRIPTION OF THE PERIMETER ZONE MUST BE PROVIDED IN THESE NOTES, OR THE PERIMETER ZONE MUST BE SHADED ON THE ROOF PLAN. IT IS PREFERED TO SHOW THE PERIMETER ZONE ON PLAN AND TO USE IT FOR BOTH THE DECK ATTACHMENT AND FOR WIND UPLIFT ON JOISTS. GENERALLY, THE PERIMETER ZONE IS A MINIMUM OF 10 FEET WIDE OR THE WIDTH OF TWO JOIST SPACINGS. REFER TO FACTORY MUTUAL FOR ACTUAL CONDITIONS ON YOUR PROJECT.

AS A GENERAL RULE, OUR OFFICE WILL COMPLY WITH FACTORY MUTUAL REQUIREMENTS FOR DECK ATTACHMENT ON ALL PROJECTS.]

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

CONDUIT EMBEDDED IN SLAB NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR CONDUITS AND INSERTS TO BE PLACED IN SLABS.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT/STRUCTURAL ENGINEER TO REVIEW SHOWING COORDINATED DOCUMENTATION OF ALL CONDUITS REQUIRED TO BE EMBEDDED IN THE SLAB. LOCATIONS OF MULTIPLE CONDUITS MAY REQUIRE REVISION TO THE STRUCTURE.
3. THE MAXIMUM CONDUIT SIZE SHALL BE ⅓ INCH IN DIAMETER AND CONDUITS SHALL BE SPACED A MINIMUM OF 12 INCHES ON CENTER. CONDUITS SHALL BE PLACED AT MID-HEIGHT OF THE SLAB.
4. IN LOCATIONS OF MULTIPLE PARALLEL CONDUITS, PROVIDE #4 REINFORCING BAR ABOVE AND BELOW CONDUITS AND EXTEND REINFORCEMENT 1'-0" BEYOND CONDUITS.
5. PROVIDE ADDITIONAL REBAR AT LOCATIONS WHERE CONDUITS CONVERGE PER DETAILS ON SLAB SCHEDULE SHEETS FOR OPENINGS.

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

FORMWORK & SHORING NOTES

1. THE DESIGN AND ENGINEERING OF ALL FORMWORK AND SHORING, AS WELL AS ITS CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SPECIALITY ENGINEER, AND SHALL CONFORM TO ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK." REQUIREMENTS LISTED BELOW ARE MINIMUM REQUIREMENTS TO BE MET BY THE GENERAL CONTRACTOR IN ADDITION TO THOSE REQUIREMENTS SET FORTH BY ACI 347 AND DO NOT IN ANY WAY RELEASE THE GENERAL CONTRACTOR FROM THE RESPONSIBILITY FOR THE DESIGN AND ENGINEERING OF ALL FORMWORK.
   [Engineer's Note: Consult with PIC if forming & shoring are to be sealed.]
2. MULTISTORY SHORING AND RESHORING MUST BE PROVIDED FOR A SUFFICIENT NUMBER OF FLOORS TO DEVELOP THE NECESSARY CAPACITY TO SUPPORT THE IMPOSED LOADS WITHOUT EXCESSIVE STRESS OR DEFLECTION.
3. STRIPPING AND REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH ACI 347.
4. WHILE RESHORING IS UNDER WAY, NO CONSTRUCTION LOADS SHALL BE PERMITTED ON THE NEW CONSTRUCTION.
5. RESHORES SHOULD BE PLACED AS SOON AS PRACTICABLE AFTER STRIPPING OPERATIONS ARE COMPLETE BUT NOT LATER THAN THE END OF THE WORKING DAY IN WHICH STRIPPING OCCURS.
6. SHORING AND RESHORING REQUIREMENTS SHALL BE CLEARLY IDENTIFIED IN NOTES AND DIAGRAMS ON THE FORMWORK SHOP DRAWINGS.

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," ANSI/AISC 360, LATEST EDITION.
2. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS," APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS, LATEST EDITION. CONNECTIONS SHALL BE BEARING TYPE UNLESS NOTED OTHERWISE IN DRAWINGS.
3. ALL W SHAPES SHALL CONFORM TO ASTM A992.

   ALL OTHER STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.
4. ALL STRUCTURAL STEEL TUBE MEMBERS SHALL CONFORM TO ASTM A500, GRADE C.
5. ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B.
6. ALL STRUCTURAL ROUND SHAPES SHALL CONFORM TO ASTM A53, GRADE B.
7. GALVANIZING OF STEEL MEMBERS SHALL CONFORM TO ASTM A123/A123M. ALL STEEL FRAMING THAT COMES IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE COATED TO A G90 THICKNESS AND ALL BOLTS, HEADED STUDS AND CONNECTORS SHALL BE COATED TO A G185 THICKNESS. ALL EXPOSED STRUCTURAL STEEL FRAMING AND ACCESSORIES FOR MECHANICAL EQUIPMENT SUPPORTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. CONTRACTOR TO PROVIDE BOLTS AND PUNCH BEAMS AS REQUIRED BY EQUIPMENT MANUFACTURER'S DETAILS.
8. ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.
9. STEEL MEMBERS SHALL NOT BE SPLICED EXCEPT WHERE SHOWN ON THE DRAWINGS.
10. ALL STEEL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.
11. NON-COMPOSITE: THE BEAM-TO-BEAM AND BEAM-TO-COLUMN CONNECTIONS SHALL DEVELOP THE END REACTION OF THE CONNECTED BEAM. THE END REACTION OF THE CONNECTED BEAM CAN BE OBTAINED FROM THE LOAD CARRYING CAPACITY OF THE BEAM ON THE BASIS OF EQUIVALENT UNIFORM LOADS GIVEN IN PART 3 (FLEXURAL MEMBERS) OF THE AISC MANUAL. THE MINIMUM SHEAR CAPACITY OF THE 12 KIPS SHALL BE PROVIDED FOR ALL BEAMS 8" TO 10" DEEP WITH 8 KIPS FOR BEAMS OF DEPTH LESS THAN 8". ANY REACTIONS GIVEN ON THE DRAWINGS SUPERSEDE THIS NOTE. CONNECTIONS SHALL BE DESIGNED AND DETAILED AS REQUIRED BY PART 9 (DESIGN OF CONNECTING ELEMENTS) OF THE AISC MANUAL. NON COMPOSITE BEAMS SHALL BE DEFINED AS THOSE REQUIRING NO SHEAR CONNECTORS (HEADED STUDS).
12. WELDED CONSTRUCTION SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE", D1.1. ELECTRODES FOR FIELD AND SHOP WELDS SHALL BE E70XX, UNLESS NOTED OTHERWISE.
13. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
14. FULL AND PARTIAL PENETRATION WELDS PERFORMED IN THE FIELD SHALL BE ULTRASONICALLY TESTED.
15. WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1.
16. THE STEEL FABRICATOR IS RESPONSIBLE FOR COORDINATION WITH THE MANUFACTURER OF STEEL JOISTS AND JOIST GIRDERS.
17. TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED, FURNISHED, AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS SHALL BE CAPABLE OF SECURING THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS.
18. THE LIFTING AND ERECTION OF PRE-ASSEMBLED ELEMENTS SUCH AS TRUSSES OR PRE-FABRICATED FRAMING ARE CONSIDERED SPECIAL ERECTION CONDITIONS. THE SELECTION OF LIFT POINTS AND ERECTION TECHNIQUES ARE THE RESPONSIBILITY OF THE CONTRACTOR. LOCATE AND PROVIDE SUFFICIENT LIFT POINTS TO PREVENT OVERSTRESS AND/OR DISTORTION OF ANY COMPONENTS WITHIN THE ASSEMBLY. PROVIDE TEMPORARY STRONG-BACKS, STIFFENERS AND/OR LIFTING DEVICES AS REQUIRED.
19. ALL GROUT BELOW ALL COLUMN BASE PLATES AND BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT UNLESS NOTED OTHERWISE.

THIS SECTION HAS NOT BEEN EDITED. ENG TO DELETE THIS NOTE AFTER FINAL EDITS ARE MADE.

TRENCH SAFETY

1. THE CONTRACTOR SHALL PROVIDE TRENCH SAFETY DESIGN DOCUMENTS PREPARED AND SEALED BY A QUALIFIED REGISTERED PROFESSIONAL ENGINEER AS REQUIRED BY ALL LOCAL AND STATE LAWS. SAID ENGINEER SHALL ALSO BE RESPONSIBLE FOR ON SITE OBSERVATIONS. THE TRENCH SAFETY DESIGN DOCUMENTS SHALL BE FILED WITH THE APPROPRIATE GOVERNMENT AGENCY. THE CONTR

STRUCTURAL STEEL INSPECTION CONTINUED

TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	X					
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.		X				
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).		X				
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		X				
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.		X				
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.		X				
7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS.		X				

TABLE N5.6-2
INSPECTION TASKS DURING BOLTING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED.		X				
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.		X				
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.		X				
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.		X				

TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	X					

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

1. SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		X		ACI 318 CH.20, 25.2, 25.3, 26.5.1-26.5.3	1908.4	032000, 3.02
2. REINFORCING BAR WELDING:						
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X				
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND		X			-	032000, 3.02
c. INSPECT ALL OTHER WELDS		X				
3. INSPECT ANCHORS CAST IN CONCRETE		X		ACI 318: 17.8.2	-	
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS						
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X			ACI 318:17.8.2.4		
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a		X		ACI 318: 17.8.2		
5. VERIFY USE OF REQUIRED DESIGN MIX		X		ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2 1908.2, 1908.3	033000, 3.03
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X			ASTM C172, ASTM C31, ACI 318: 26.4.5, 26.12	1908.1	033000, 3.03
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X			ACI 318: 26.4.5	1908.6, 1908.7, 1908.8	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X			ACI 318: 26.4.7-26.4.9	1908.9	033000, 3.03
9. INPSECTION PRESTRESSED CONCRETE FOR:						
a. APPLICATION OF PRESTRESSING FORCES.	X			ACI 318: 26.9.2.1	-	033000, 3.03; 033816, 3.04
b. GROUTING OF BONDED PRESTRESSING TENDONS	X			ACI 318: 26.9.2.1	-	033000, 3.03; 033817, 3.4
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X		ACI 318: Ch. 26.8	-	
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X		ACI 318: Ch. 26.10.2	-	033000, 3.03; 033816, 3.04
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING		X		ACI 318:26.10.1(b)	-	031000, 3.05

REQUIRED SPECIAL INSPECTION AND TESTS OF STEEL CONSTRUCTION

1. SPECIAL INSPECTIONS FOR STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360, AS REQUIRED IN THE FOLLOWING TABLES.

TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. WELDER QUALIFICATION RECORDS AND CONTNUITY RECORDS.		X				
2. WPS AVAILABLE.	X					
3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	X					
4. MATERIAL IDENTIFICATION (TYPE/GRADE).		X				
5. WELDER IDENTIFICATION SYSTEM [a]		X				
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY). a. JOINT PREPARATIONS. b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL). c. CLEANLINESS (CONDITION OF STEEL SURFACES). d. TACKING (TACK WELD QUALITY AND LOCATION). e. BACKING TYPE AND FIT (IF APPLICABLE).		X				
7. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY). a. JOINT PREPARATIONS. b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL). c. CLEANLINESS (CONDITION OF STEEL SURFACES). d. TACKING (TACK WELD QUALITY AND LOCATION).		X				
8. CONFIGURATION AND FINISH OF ACCESS HOLES.		X				
9. FIT-UP OF FILLET WELDS. a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT). b. CLEANLINESS (CONDITION OF STEEL SURFACES). c. TACKING (TACK WELD QUALITY AND LOCATON).		X				
10. CHECK WELDING EQUIPMENT						

[a] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

TABLE N5.4-2
INSPECTION TASKS DURING WELDING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. CONTROL AND HANDLING OF WELDING CONSUMABLES: a. PACKAGING. b. EXPOSURE CONTROL.		X				
2. NO WELDING OVER CRACKED TACK WELDS.		X				
3. ENVIRONMENTAL CONDITIONS. a. WIND SPEED WITHIN LIMITS. b. PRECIPITATION AND TEMPERATURE.		X				
4. WPS FOLLOWED. a. SETTINGS ON WELDING EQUIPMENT. b. TRAVEL SPEED. c. SELECTED WELDING MATERIALS. d. SHIELDING GAS TYPE/FLOW RATE. e. PREHEAT APPLIED. f. INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.). g. PROPER POSITION (F, V, H, OH).		X				
5. WELDING TECHNIQUES. a. INTERPASS AND FINAL CLEANING. b. EACH PASS WITHIN PROFILE LIMITATIONS. c. EACH PASS MEETS QUALITY REQUIREMENTS.		X				
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	X					

TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. WELDS CLEANED.		X				
2. SIZE, LENGTH AND LOCATION OF WELDS.	X					
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA. a. CRACK PROHIBITION. b. WELD/BASE-METAL FUSION. c. CRATER CROSS SECTION. d. WELD PROFILES. e. WELD SIZE. f. UNDERCUT. g. POROSITY.	X					
4. ARC STRIKES.	X					
5. k-AREA.[d]	X					
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES. [b]	X					
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	X					
8. REPAIR ACTIVITES.	X					
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	X					
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.		X				

[a] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 in. (75 mm) OF THE WELD.

[b] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

INSPECTION OF FABRICATORS

1. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION.

2. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE FABRICATOR MAINTAINS APPROVED DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND THIS CODE. APPROVAL SHALL BE BASED UPON REVIEW OF FABRICATION AND QUALITY CONTROL PROCEDURES AND PERIODIC INSPECTION OF FABRICATION PRACTICES BY THE BUILDING OFFICIAL.

3. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED AGENCY AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER OR THE OWNER'S AUTHORIZED AGENT FOR SUBMITTAL TO THE BUILDING OFFICIAL AS SPECIFIED IN SECTION 1704.5 STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS

REQUIRED VERIFICATION AND INSPECTION OF SOILS

1. VERIFICATION OF SOILS AND SPECIAL INSPECTIONS FOR SUBGRADE SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.

2. THE GEOTECHNICAL ENGINEERING REPORT, AND THE CONSTRUCTION DOCUMENTS SHALL BE USED TO DETERMINE COMPLIANCE.

3. REFER TO PROJECT SPECIFICATIONS FOR QUANTITY AND FREQUENCY OF INSPECTIONS AND TESTS.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X		GEOTECHNICAL ENGINEERING REPORT	1705.6	312303, 3.14
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X				
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X				
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X					
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X				

REQUIRED VERIFICATION AND INSPECTION OF PERIMETER GRADE BEAM BACKFILL

1. VERIFICATION OF SOILS AND SPECIAL INSPECTIONS FOR THE PERIMETER GRADE BEAM BACKFILL SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.

2. THE GEOTECHNICAL ENGINEERING REPORT, AND THE APPROVED CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS, SHALL BE USED TO DETERMINE COMPLIANCE.

3. REFER TO PROJECT SPECIFICATIONS FOR QUANTITY AND FREQUENCY OF INSPECTIONS AND TESTS.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. DURING FILL PLACEMENT: DURING PLACEMENT AND COMPACTION OF THE FILL MATERIAL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE MATERIAL BEING USED, THE MAXIMUM LIFT THICKNESS, AND THE OVERALL DEPTH OF FILL COMPLY WITH THE APPROVED GEOTECHNICAL REPORT.		X		GEOTECHNICAL ENGINEERING REPORT	1705.6	312303, 3.14
a. WHERE UTILITY TRENCHES INTERSECT THE PERIMETER WALL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT MATERIALS AND TECHNIQUES USED TO PROVIDE A POSITIVE CUT-OFF TO PREVENT WATER MIGRATION ARE IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.		X				
b. AT BUILDING ENTRANCES, THE SPECIAL INSPECTOR SHALL DETERMINE THAT MATERIALS USED ARE IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS AND THAT THEY ARE EXTENDED FROM THE FACE OF BUILDING AS INDICATED IN THE CONSTRUCTION DOCUMENTS.		X				
2. EVALUATION OF IN-PLACE DENSITY: THE SPECIAL INSPECTOR SHALL DETERMINE, AT THE APPROVED FREQUENCY, THAT THE MOISTURE CONTENT OF THE SOIL AND THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL COMPLIES WITH THE APPROVED REPORT.		X				

REQUIRED SPECIAL INSPECTION AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

1. SPECIAL INSPECTIONS OF CAST-IN-PLACE DEEP FOUNDATIONS SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.

2. THE GEOTECHNICAL ENGINEERING REPORT, AND THE APPROVED CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS, SHALL BE USED TO DETERMINE COMPLIANCE.

3. EVERY ELEMENT SHALL BE INSPECTED.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS. EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE GROUT VOLUMES.	X			GEOTECHNICAL ENGINEERING REPORT	1705.8	316329, 1.02, 1.05, 3.02
2. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X					
3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.			X	REFER TO IBC TABLE 1705.3	1705.3	033000, 3.03

STATEMENT OF SPECIAL INSPECTIONS

1. INFORMATION ON THIS SHEET IS BEING SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTIONS PROVISIONS OF THE 2015 INTERNATIONAL BUILDING CODE. THIS INFORMATION CONSTITUTES THE SCHEDULE OF SPECIAL INSPECTIONS (SSI) REQUIRED FOR THIS PROJECT.

2. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED HEREIN.

3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

4. THE SPECIAL INSPECTOR SHALL FULFILL THE FOLLOWING REPORT REQUIREMENTS:

   a. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS.

   b. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER, THE GENERAL CONTRACTOR, THE STRUCTURAL ENGINEER, AND THE ARCHITECT. IN ADDITION, REPORTS RELATED TO GEOTECHNICAL ISSUES SHALL BE DISTRIBUTED TO THE

      GEOTECHNICAL ENGINEER. WHEN TESTS OR INSPECTIONS INDICATE THAT THE WORK DOES NOT COMPLY WITH THE CONSTRUCTION DOCUMENTS, THE SPECIAL INSPECTOR SHALL NOTIFY THE OWNER, CONTRACTOR, ARCHITECT AND STRUCTURAL ENGINEER BY PHONE ON THE DAY OF THE TEST OR INSPECTION AND SHALL FOLLOW THAT CALL WITH AN EXPEDITED WRITTEN REPORT WITHIN ONE BUSINESS DAY. ALL OTHER REPORTS SHALL BE SUBMITTED WITHIN 5 BUSINESS DAYS OF THE EVENT DOCUMENTED.

   c. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN

      CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS

   d. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.

   e. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN

      RESPONSIBLE CHARGE WITHIN ONE BUSINESS DAY. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED BY THE SPECIAL INSPECTOR AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.

   g. THE SPECIAL INSPECTOR'S FINAL REPORT SHALL IDENTIFY THE FOLLOWING:

      1) THE MATERIALS, SYSTEMS, COMPONENTS, AND WORK REQUIRED TO HAVE SPECIAL INSPECTION OR TESTING BY THE BUILDING OFFICIAL OR BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR EACH PORTION OF THE WORK.

      2) THE TYPE AND EXTENT OF EACH SPECIAL INSPECTION.

      3) THE TYPE AND EXTENT OF EACH TEST.

      4) ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION OR TESTING FOR SEISMIC OR WIND RESISTANCE AS SPECIFIED IN SECTIONS 1705.11, 1705.12 AND 1705.13.

         i. WHERE SECTION 1705.12 OR 1705.13 SPECIFIES SPECIAL INSPECTION, TESTING OR QUALIFICATION FOR SEISMIC RESISTANCE, THE STATEMENT OF SPECIAL INSPECTIONS SHALL IDENTIFY THE DESIGNATED SEISMIC SYSTEMS AND SEISMIC FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS OR TESTS.

         ii. WHERE SECTION 1705.11 SPECIFIES SPECIAL INSPECTION FOR WIND REQUIREMENTS, THE STATEMENT OF SPECIAL INSPECTIONS SHALL IDENTIFY THE MAIN WINDFORCE-RESISTING SYSTEMS AND WIND-RESISTING COMPONENTS SUBJECT TO SPECIAL INSPECTIONS. THE REPORT SHALL BE SIGNED BY THE SPECIAL INSPECTOR

5. FOR EACH TYPE OF SPECIAL INSPECTION, IDENTIFICATION AS TO WHETHER IT WILL BE CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION OR PERFORMED IN ACCORDANCE WITH THE NOTATION USED IN THE REFERENCED STANDARD WHERE THE INSPECTIONS ARE DEFINED.

6. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON QUANTITY, FREQUENCY AND DETAILED INFORMATION ON TESTING, INSPECTION AND REPORTING.

7. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE SPECIAL INSPECTION REQUIREMENTS WITH ALL INVOLVED PARTIES.

8. THE SPECIAL INSPECTIONS PROGRAM OUTLINED HEREIN, DOES NOT RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF ANY CONTRACTUAL DUTIES, INCLUDING QUALITY CONTROL, QUALITY ASSURANCE, OR SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND JOB SITE SAFETY.

9. THE CONTRACTOR SHALL PAY FOR ENGINEERING SERVICES REQUIRED TO INVESTIGATE AND CORRECT WORK THAT DOES NOT CONFORM TO THE PROJECT DOCUMENTS OR IS FOUND DEFICIENT OR DEFECTIVE.

PERMIT'S APPLICATION RESPONSIBILITIES

1. THE PERMIT APPLICANT SHALL SUBMIT THIS SHEET AS THE STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AS A CONDITION FOR PERMIT ISSUANCE.

2. THE PERMIT APPLICANT SHALL LIST BELOW THE INDIVIDUALS, APPROVED AGENCIES OR FIRMS INTENDED TO BE RETAINED FOR CONDUCTING SUCH INSPECTIONS.

   a. SUBGRADE PREPARATION, DRAINAGE COURSES, WALL AND GRADE BEAM BACKFILL, DRILLED PIERS, PILES, FOOTINGS AND OTHER GEOTECHNICAL RELATED ELEMENTS. _____ Name or Firm Name

   b. CONCRETE _____ Name or Firm Name

   c. STRUCTURAL STEEL, STEEL JOISTS AND JOIST GIRDERS,METAL DECK AND SPRAYED ON FIREPROOFING _____ Name or Firm Name

   d. CMU _____ Name or Firm Name

   e. LIGHT GAUGE METAL FRAMING _____ Name or Firm Name

   f. WOOD _____ Name or Firm Name

3. THE PERMIT APPLICANT SHALL OBTAIN ALL NECESSARY SIGNATURES INCLUDING CONTRACTOR ACKNOWLEDGEMENT OF SPECIAL INSPECTION REQUIREMENTS.

CONTRACTOR'S ACKNOWLEDGEMENT OF RESPONSIBILITY FOR IMPLEMENTATION OF THE SPECIAL INSPECTIONS PLAN

1. AS PART OF THE SUBMITTAL FOR BUILDING PERMIT, THE GENERAL CONTRACTOR SHALL COMPLETE THE FOLLOWING FORM AS A WRITTEN STATEMENT OF RESPONSIBILITY.

   a. AS THE GENERAL CONTACTOR, WE ARE AWARE OF THE REQUIREMENTS FOR SPECIAL INSPECTIONS AS LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.

   b. AS GENERAL CONTRACTOR, WE ACKNOWLEDGE THAT CONTROL MUST BE EXERCISED BY OUR ORGAINIZATION TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL. WE ACKNOWLEDGE OUR RESPONSIBILITY TO DISTRIBUTE UP TO DATE DOCUMENTS, INCLUDING PLANS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, RESPONSES TO REQUESTS FOR INFORMATION, ARCHITECTURAL SUPPLEMENTAL INSTRUCTIONS, SHOP DRAWINGS, ETC., TO ALL SUBCONTRACTORS AND TO THE SPECIAL INSPECTORS. WE ACKNOWLEDGE OUR RESPONSIBILITY FOR CALLING THE APPROPRIATE SPECIAL INSPECTORS AT APPROPRIATE TIMES TO FULLFILL THE REQUIREMENTS IN THE STATEMENT OF SPECIAL INSPECTIONS.

   c. AS GENERAL CONTRACTOR, WE HAVE DEVELOPED PLANS AND PROCEDURES FOR EXERCISING CONTROL WITHIN OUR ORGANIZATION, FOR THE METHOD AND FREQUENCY OF REPORTING AND FOR THE DISTRIBUTION OF THE REPORTS.

   d. THE FOLLOWING QUALIFIED INDIVIDUAL(S) WITHIN OUR FIRM WILL BE RESPONSIBLE FOR CONTROLLING THE PLAN, PROCEDURES AND PROCESS OF THE SPECIAL INSPECTIONS PLAN:

      Name _____ Position within Firm _____

      Name _____ Position within Firm _____

      Name _____ Position within Firm _____

      Name _____ Position within Firm _____

2. THE GENERAL CONTRACTOR ACKNOWLEDGES OUR RESPONSIBLITIES AS STATED ABOVE.

   Name _____ Position within Firm _____ Date _____

   Firm Name _____

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOS AVE
DALLAS, TX 75211

gsr | andrade Architects

Dallas, Texas 75226

P 214.824.7040

F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

Drawn By:
SRP

Checked By:
KGN

Sheet Title:
Special Inspections

Drawing No.
S0.03

Geisler Partners Consulting Engineers + RLG LLC

Project Number: 23006

12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866

geislerpartners.com

5/7/2026 10:54:48 AM

REQUIRED VERIFICATION AND INSPECTION OF CMU CONSTRUCTION

1. SPECIAL INSPECTIONS FOR CMU CONSTRUCTION ARE BASED ON QUALITY ASSURANCE LEVEL 2 AS REQUIRED IN THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:						
a. PROPORTIONS OF SITE-PREPARED MORTAR		X		ACI 530.1/ ASCE/6/TMS 602. ARTICLE 2.1, 2.6A & 2.6C		
b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X		ACI 530.1/ ASCE/6/TMS 602. ARTICLE 2.4B &2.4H		
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X		ACI 530.1/ ASCE/6/TMS 602. ARTICLE 3.4, 3.6 A		
d. PRESTRESSING TECHNIQUE		X		ACI 530.1/ASCE6 /TMS 602. ARTICLE 3.6 B		
e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY		X		ACI 530.1/ASCE6 /TMS 602. ARTICLE 2.1 C.1		
f. SAMPLE PANEL CONSTRUCTION		X		ACI 530.1/ ASCE6/TMS 602. ARTICLE 1.6 D		
2. PRIOR TO GROUTING , THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE						
a. GROUT SPACE		X		ACI 530.1/ASCE6 /TMS 602. ARTICLE 3.2 D & 3.2 F		
b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES		X		ACI 530/ASCE5 /TMS 402 SEC. 10.8 & 10.9/TMS 602 ART. 2.4 & 3.6		
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		X		ACI 530/ASCE5 /TMS 402, SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7 AND ACI 530.1/ASCE6 /TMS 602. ART. 3.2 E & 3.4	1705.4	042000, 3.13
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X		ACI 530.1/ASCE6 /TMS 602. ARTICLE 2.6 B & 2.4 G.1.B		
3. DURING CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:						
a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X		ACI 530.1/ASCE6 /TMS 602. ARTICLE 1.5		
b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X		ACI 530.1/ASCE6 /TMS 602. ARTICLE 3.3 B		
c. SIZE AND LOCATION OF STRUCTURAL MEMBERS		X		ACI 530.1/ASCE6 /TMS 602. ARTICLE 3.3 F		
d. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETALS OF ANCHORAGE OF MASONRY TO STRUCURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X		ACI 530.1/ASCE6 /TMS 402 SEC. 1.2.1 (e), 6.2.1, &6.3.1		
e. WELDING OF REINFORCEMENT	X			ACI 530.1/ASCE6 /TMS 402 SEC. 6.1.6.1.2		
f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)		X		ACI 530.1/ASCE6 /TMS 602. ARTICLE 1.8 C & 1.8 D		
g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X			ACI 530.1/ASCE6 /TMS 602. ARTICLE 3.6 B		
h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X			ACI 530.1/ASCE6 /TMS 602. ARTICLE 3.5 & 3.6 C		
i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS		X		ACI 530.1/ASCE6 /TMS 602. ARTICLE 3.3 B.9 & 3.3 F.1.b		
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.		X		ACI 530.1/ASCE6 /TMS 602. ARTICLE 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4		

REQUIRED VERIFICATION AND INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

1. SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND GIRDERS IN BUILDINGS, STRUCTURES , AND PORTIONSTHEREOF SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE COMPLIANCE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.						
a. END CONNECTIONS - WELDING OR BOLTED.		X		SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		
b. BRIDGING - HORIZONTAL OR DIAGONAL					1705.2.3	052100, PART 3, FIELD QUALITY CONTROL
1. STANDARD BRIDGING.		X		SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		
2. BRIDGING THAT DIFFERS FROM SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		X				

REQUIRED VERIFICATION AND INSPECTION OF METAL DECK CONSTRUCTION

1. SPECIAL INSPECTIONS OF METAL DECKING IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT				MANUFACTURER'S APPROVED SHOP DRAWINGS	IBC 1705.2.2 SDI QA/QC	053000, 3.04
a. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS		X				
b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES		X				
2. INSPECTION OR EXECUTION TASKS AFTER TO DECK PLACEMENT						
a. VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS		X				
b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES		X				
c. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES		X				
3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING						
a. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE		X				
b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		X				
c. MATERIAL IDENTIFICATION (TYPE/GRADE)		X				
d. CHECK WELDING EQUIPMENT		X				
4. INSPECTION OR EXECUTION TASKS DURING WELDING						
a. USE OF QUALIFIED WELDERS		X				
b. CONTROL AND HANDLING OF WELDING CONSUMABLES		X				
c. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPRATURE)		X				
d. WPS FOLLOWED		X				
5. INSPECTION OR EXECUTION TASKS AFTER WELDING						
a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS.		X				
b. WELDS MEET VISUAL ACCEPTANCE CRITERIA		X				
c. VERIFY REPAIR ACTIVITIES		X				
d. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS		X				
6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING						
a. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS		X				
b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION		X				
c. PROPER STORAGE FOR MECHANICAL FASTENERS		X				
7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING						
a. FASTENERS ARE POSITIONED AS REQUIRED		X				
b. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION		X				
8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING						
a. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS		X				
b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS		X				
c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS		X				
d. VERIFY REPAIR ACTIVITIES		X				
e. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS		X				

REQUIRED VERIFICATION AND INSPECTION OF LIGHT GAUGE METAL FRAMING

1. SPECIAL INSPECTIONS FOR LIGHT GAUGE METAL FRAMING CONSTRUCTION SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. SPECIAL INSPECTIONS OF THE FABRICATION PROCESS OF PREFABRICATED LIGHT GAUGE METAL STRUCTURAL ELEMENTS AND ASSEMBLIES.		X		APPROVED CONSTRUCTION DOCUMENTS	1705.2.4	054000
2. SHEAR WALLS, FLOOR DIAPHRAGMS, AND ROOF DIAPHRAGMS:		X				
a. THE SPECIAL INSPECTOR SHALL INSPECT THE WOOD OR GYPSUM PANEL SHEATHING TO ASCERTAIN WHETHER IT IS OF THE GRADE AND THICKNESS SHOWN ON THE APPROVED BUILDING PLANS.		X				
b. THE SPECIAL INSPECTOR SHALL VERIFY THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES AND THAT SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREES WITH THE APPROVED CONSTRUCTION DOCUMENTS.		X				
3. THE SPECIAL INSPECTOR SHALL VERIFY STUD, BEAM, AND POST SIZE, GAUGE AND ORIENTATION.		X				

Geisler Partners Consulting Engineers + RLG LLC

Project Number: 23006

12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866

geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226

P 214.824.7040

F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

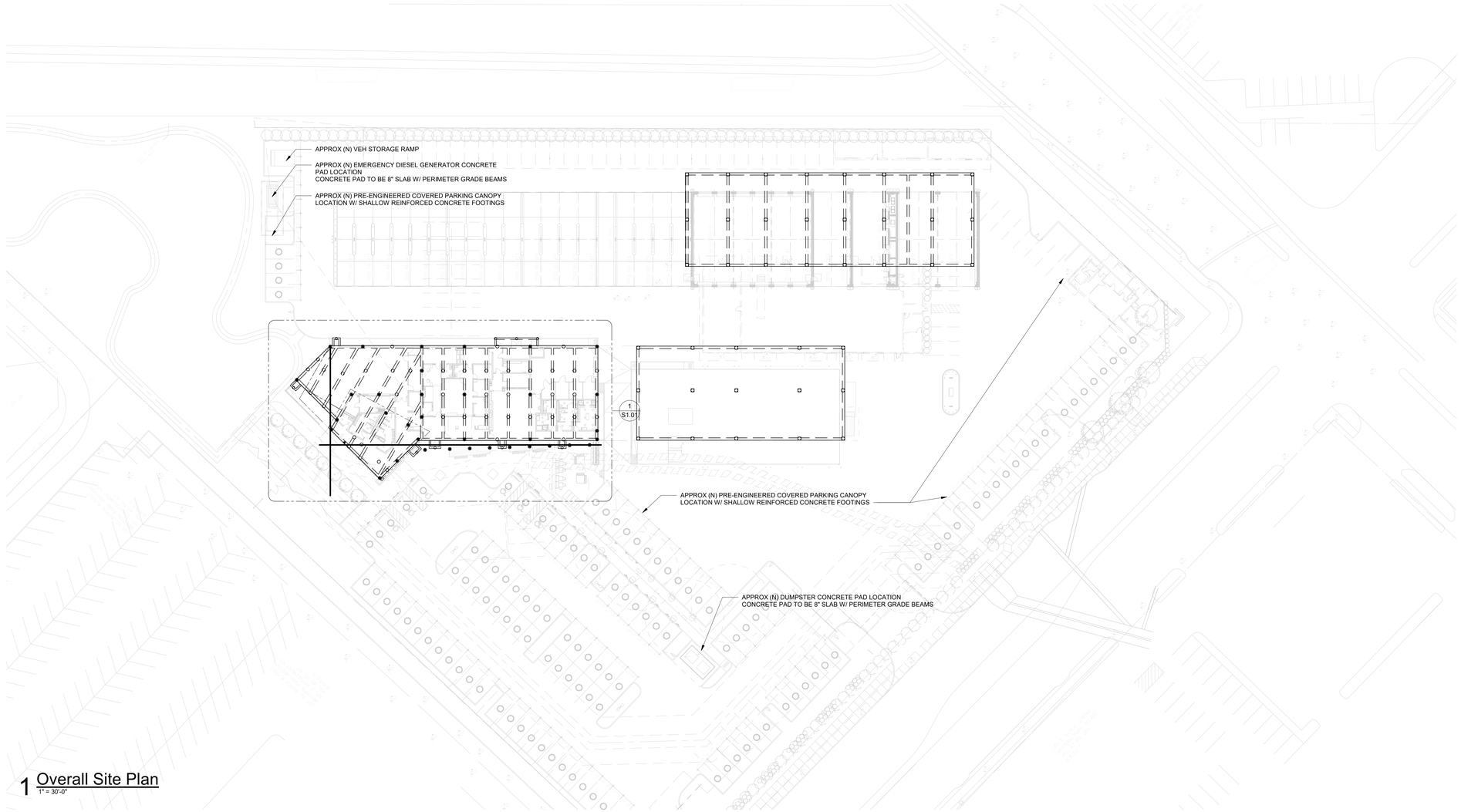
Drawn By:
SRP

Checked By:
KGN

Sheet Title:
Special Inspections

Drawing No.
S0.04

5/7/2026 10:54:49 AM



1 Overall Site Plan
1" = 30'-0"

5/7/2026 10:54:51 AM

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade Architects
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

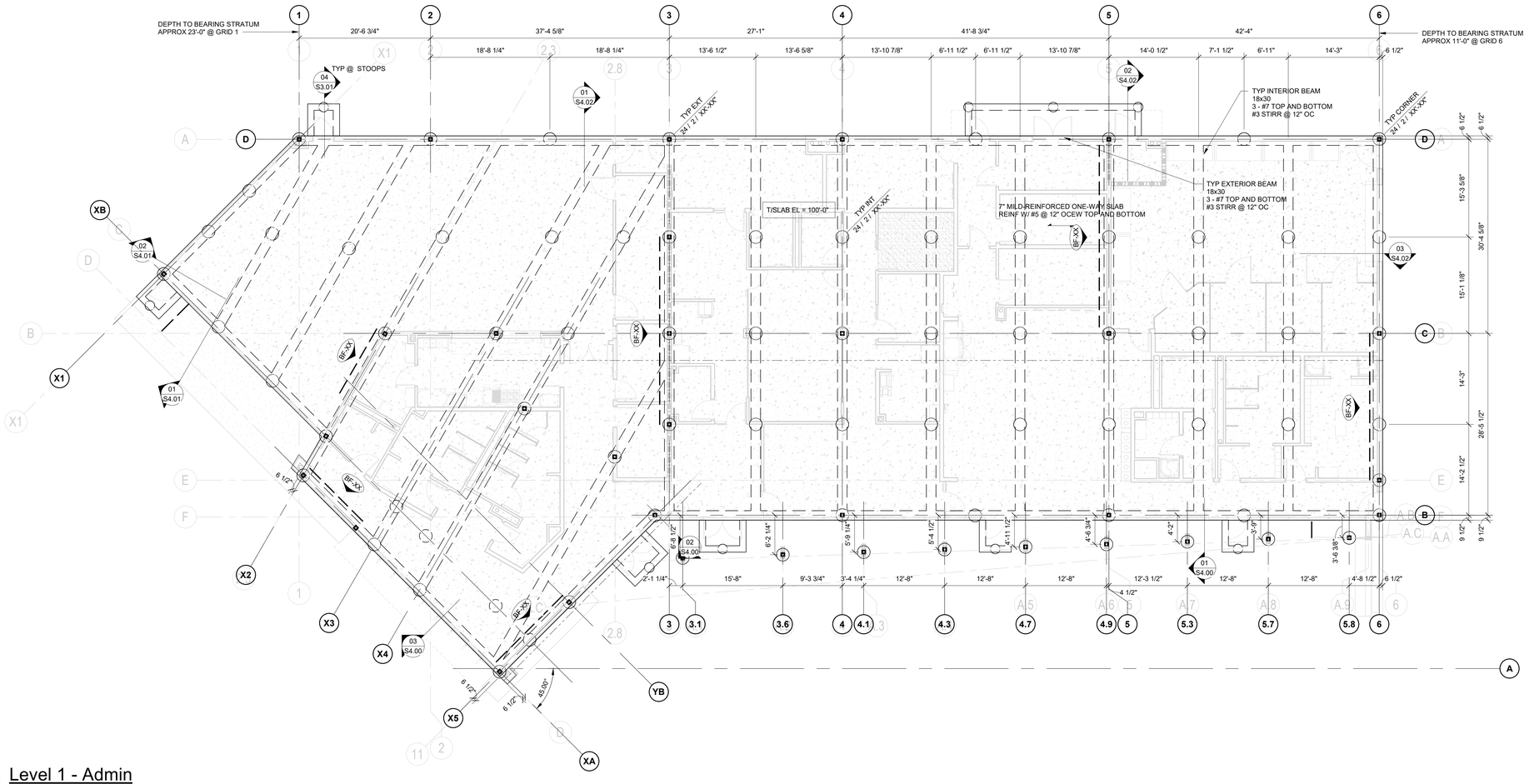
Project No.
3015

Drawn By:
SRP

Checked By:
KGN

Sheet Title:
Site Plan

Drawing No.
S1.00



1 Level 1 - Admin
1/8" = 1'-0"

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

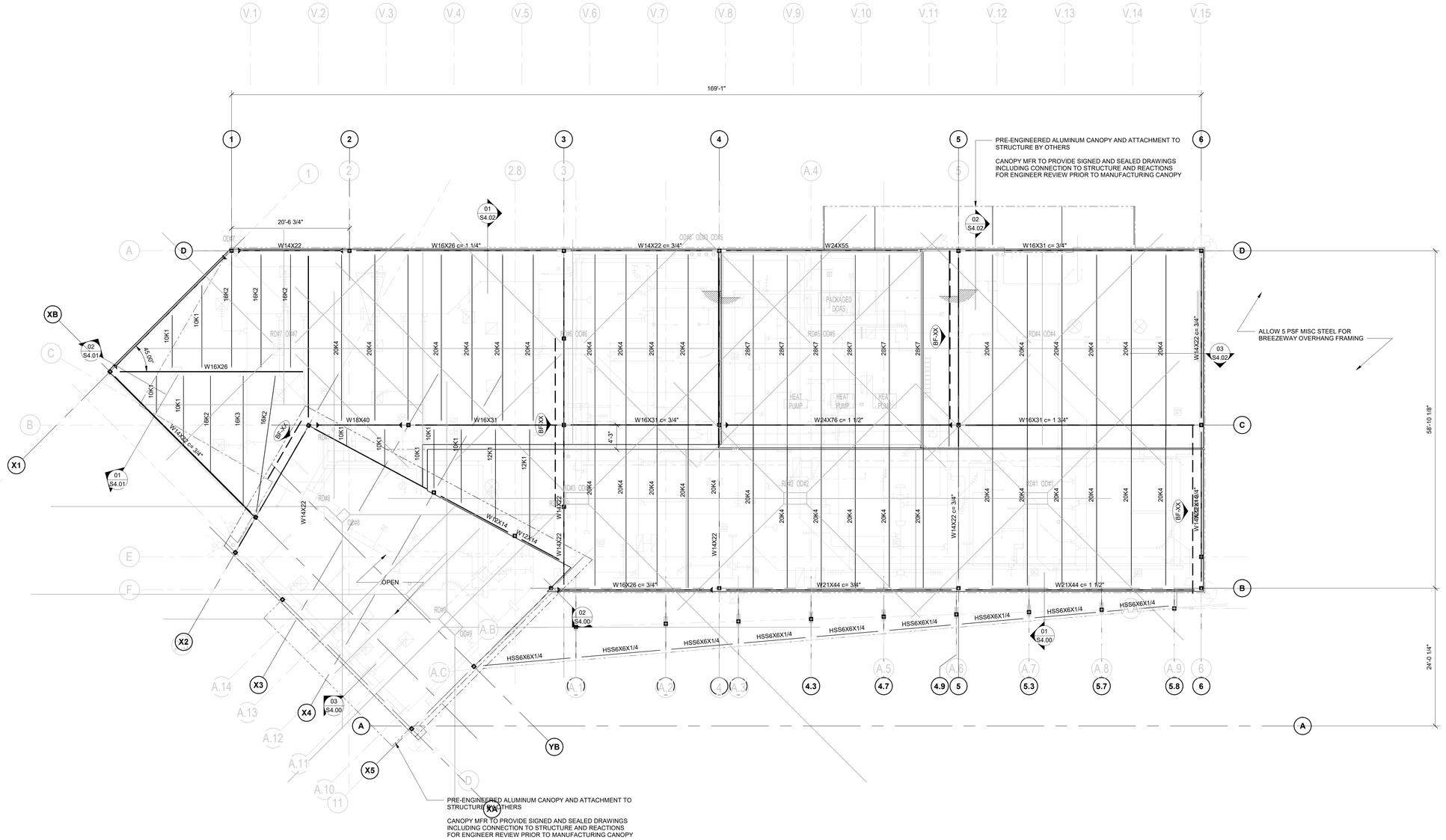
Drawn By:
SRP

Checked By:
KGN

Sheet Title:
Admin Foundation Plan

Drawing No.
S1.01

5/7/2026 10:54:53 AM



1 T/STL - Main Roof
1/8" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

Drawn By:
SRP

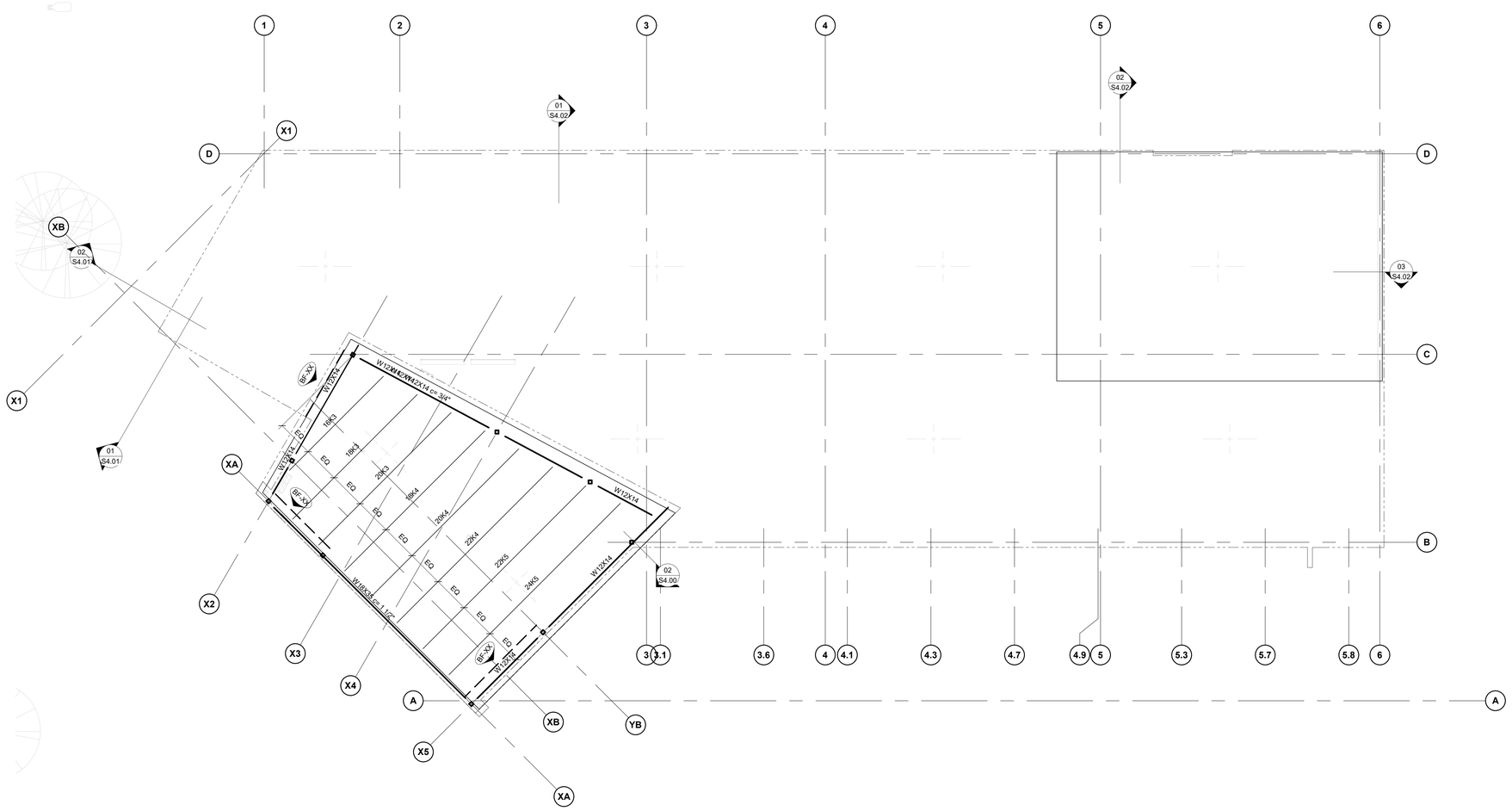
Checked By:
KGN

Sheet Title:
Admin Main Roof Plan

Drawing No.
S1.02

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

5/7/2026 10:54:56 AM



1 T/STL - High Roof
1/8" = 1'-0"

5/7/2026 10:54:57 AM

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

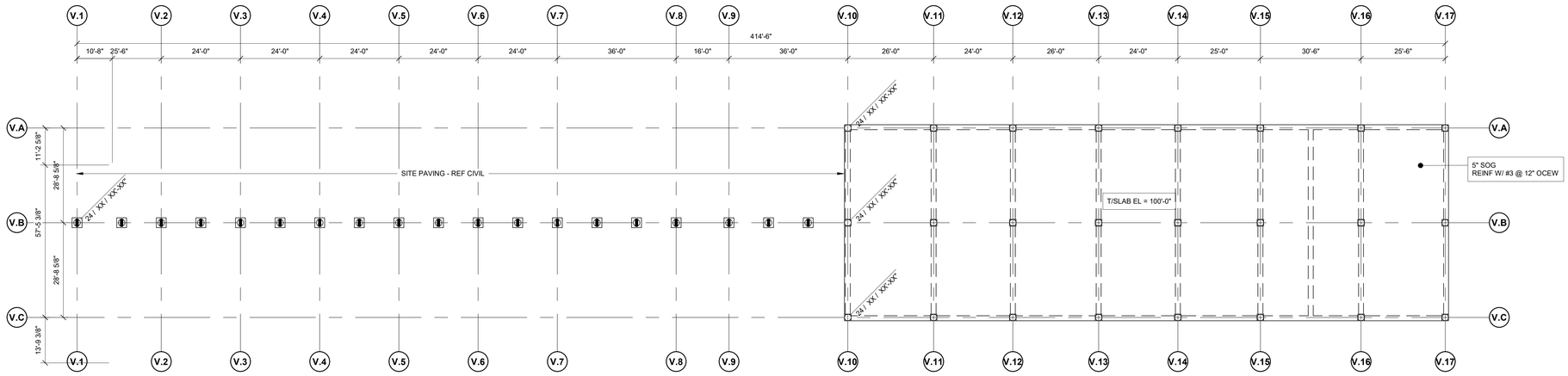
Drawn By:
SRP

Checked By:
KGN

Sheet Title:
Admin High Roof Plan

Drawing No.
S1.03

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com



1 Level 1 - Vehicle Storage
1/16" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226

P 214.824.7040

F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

Drawn By:
SRP

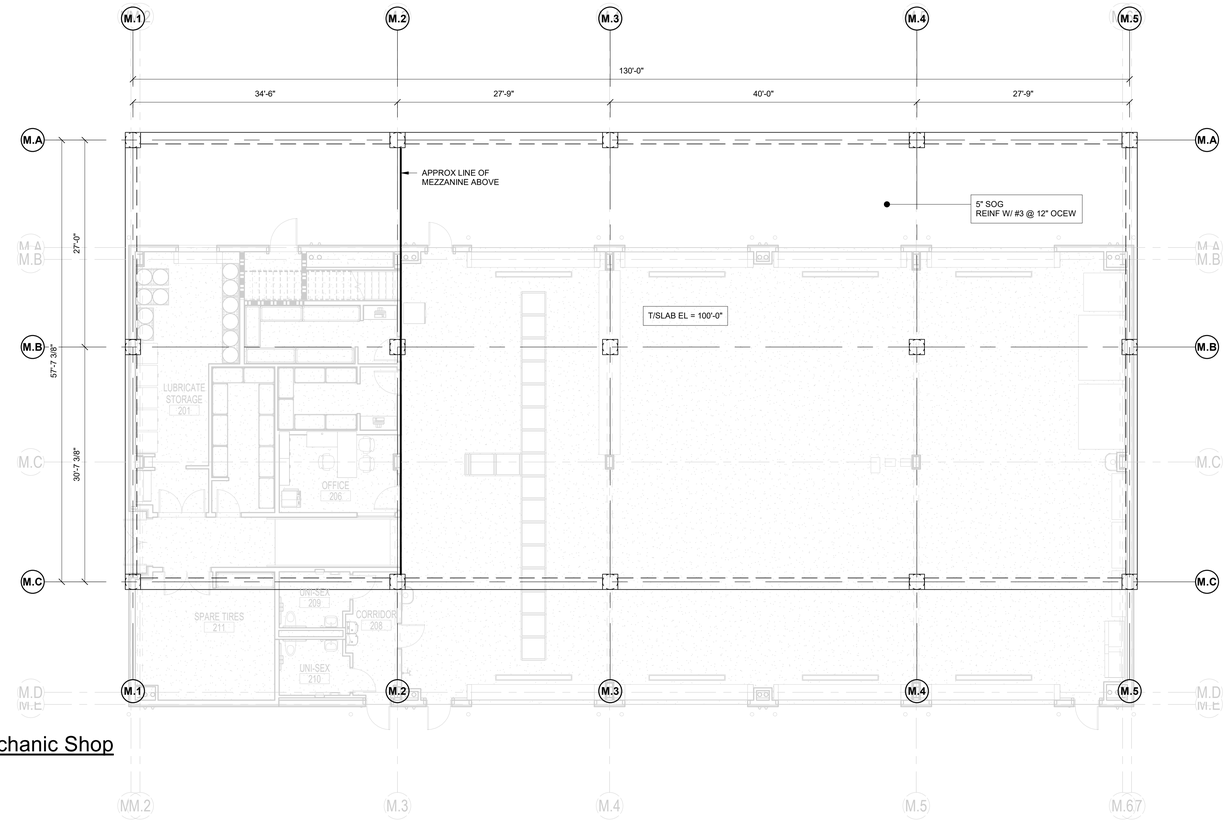
Checked By:
KGN

Sheet Title:
Vehicle Storage Foundation Plan

Drawing No.
S2.00

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

5/7/2026 10:54:57 AM



1 Level 1 - Mechanic Shop
1/8" = 1'-0"

Geisler Partners Consulting Engineers + RLG LLC

Project Number: 23006

12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866

geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS

Dallas, Texas 75226

P 214.824.7040

F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

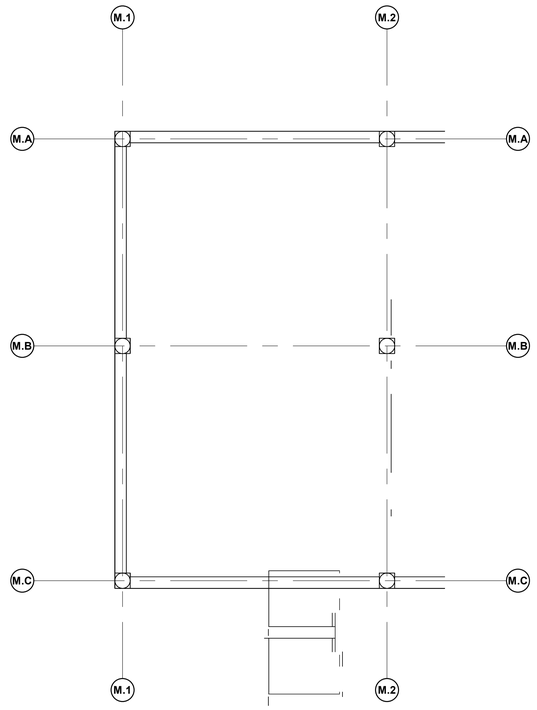
Drawn By:
SRP

Checked By:
KGN

Sheet Title:
Mechanic Shop Foundation Plan

Drawing No.
S2.01

5/7/2026 10:55:01 AM



1 Mechanic Shop Mezzanine Framing Plan
1/8" = 1'-0"

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

Drawn By:
SRP

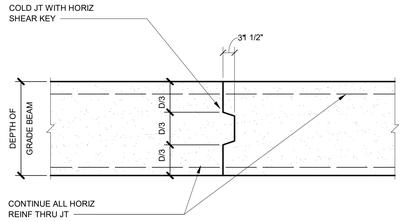
Checked By:
KGN

Sheet Title:
Mechanic Shop Mezzanine Plan

Drawing No.
S2.02

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

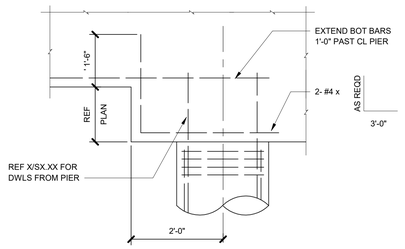
5/7/2026 10:55:02 AM



TYPICAL GRADE BEAM CONSTRUCTION JOINT

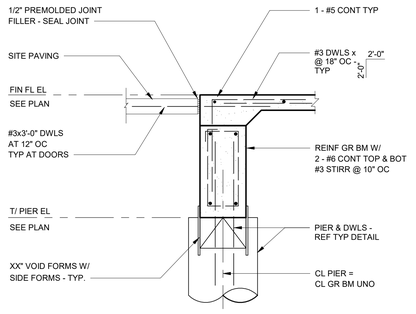
NOTE : LOCATE JOINT IN MIDDLE THIRD OF SPAN

04

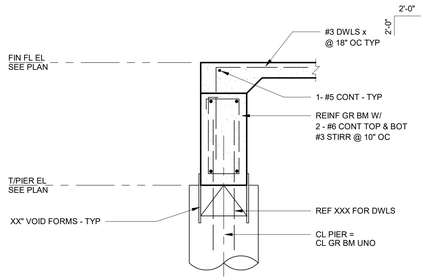


TYPICAL STEP IN GRADE BEAM

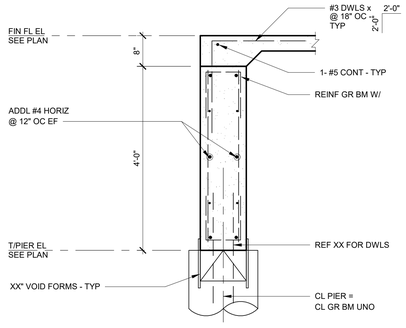
05



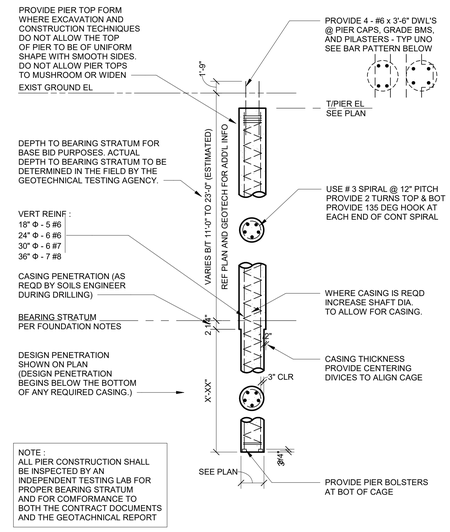
06



07

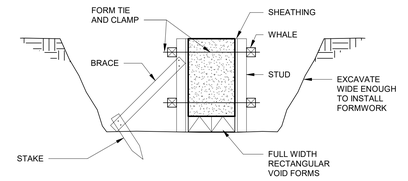


08



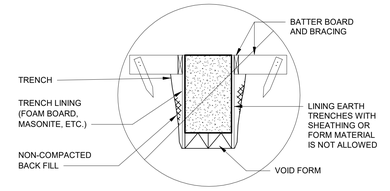
01

TYPICAL STRAIGHT SHAFT PIER



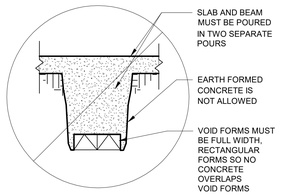
A

EXAMPLE OF ACCEPTABLE FORMWORK



B

EXAMPLE OF UNACCEPTABLE FORMING

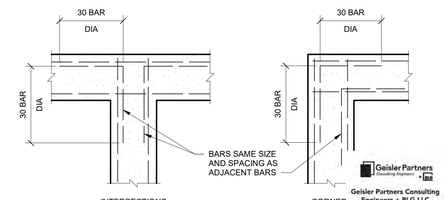


C

EXAMPLE OF UNACCEPTABLE FORMING

1. THE DETAIL SHOWN IS DIAGRAMMATICAL. THE DESIGN AND CONSTRUCTION OF ALL FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ACI 347 AND ACI 117 FOR TOLERANCES. NEITHER EARTH TRENCHES NOR EARTH TRENCHES LINED WITH SHEATHING WILL BE ACCEPTABLE.
2. AFTER CONCRETE HAS CURED, FORMS SHALL BE STRIPPED AND REMOVED. INSPECT VOID FORMS AND REPLACE FORMS THAT COLLAPSED DURING THE CONCRETE POUR. INSTALL SOIL RETAINERS ADJACENT TO VOID FORMS, BACKFILL AND PROPERLY COMPACT SOIL AROUND GRADE BEAM.
3. THE SLAB SHALL BE A SECONDARY POUR.

02



TYPICAL CORNER BARS

03

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

Drawn By:
SRP

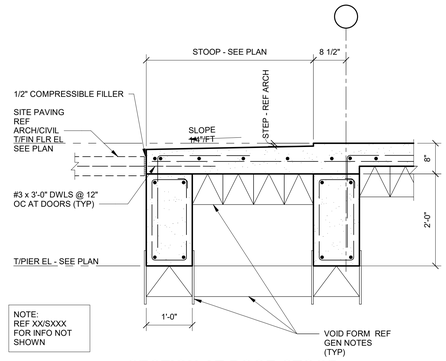
Checked By:
KGN

Sheet Title:
Typical Foundation Details

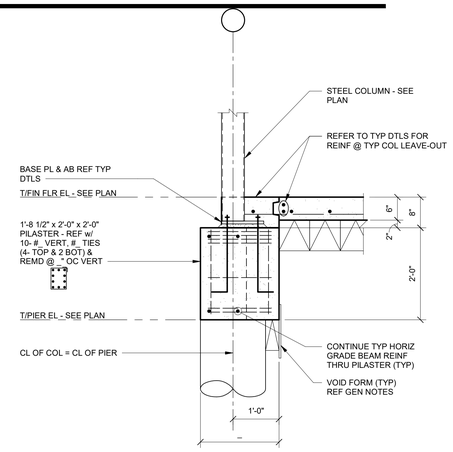
Drawing No.
S3.00

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

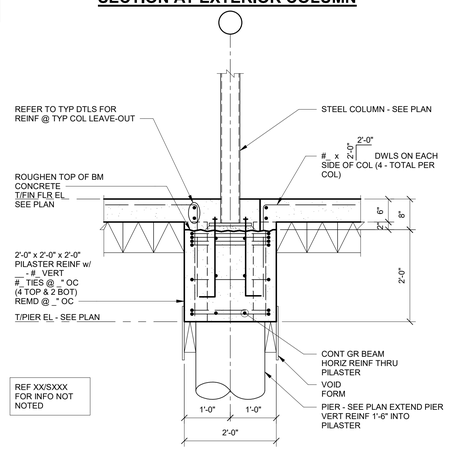
5/7/2026 10:55:03 AM



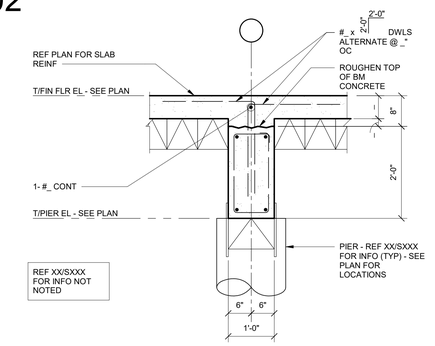
04 **SECTION AT DOOR STOOP**



01 **SECTION AT EXTERIOR COLUMN**



02 **SECTION AT INTERIOR COLUMN**



03 **SECTION AT INTERIOR GRADE BEAM**

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

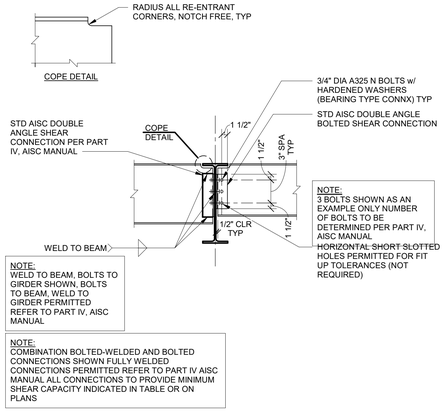
Drawn By:
SRP

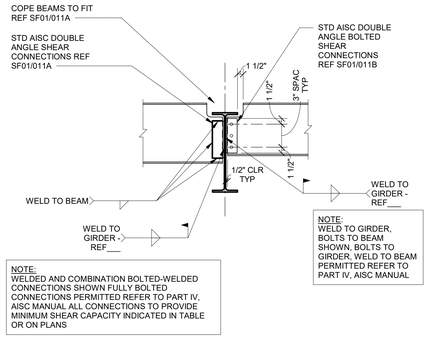
Checked By:
KGN

Sheet Title:
Typical Foundation Details

Drawing No.
S3.01

5/7/2026 10:55:03 AM

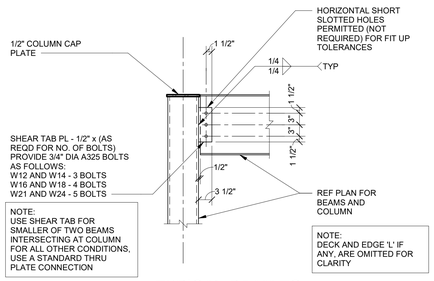




A COMBINATION BOLTED-WELDED CONNECTIONS **B BOLTED CONNECTION** **C WELDED CONNECTION** **D COMBINATION BOLTED-WELDED CONNECTION**

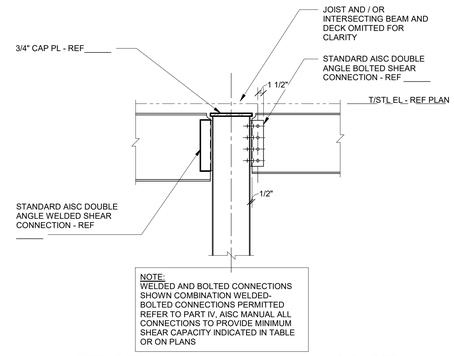
TYPICAL BEAM TO BEAM FRAMING CONNECTIONS

06



TYPICAL BEAM TO COLUMN SHEAR TAB CONNECTION

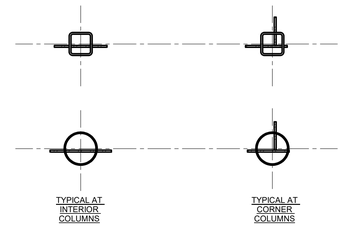
07

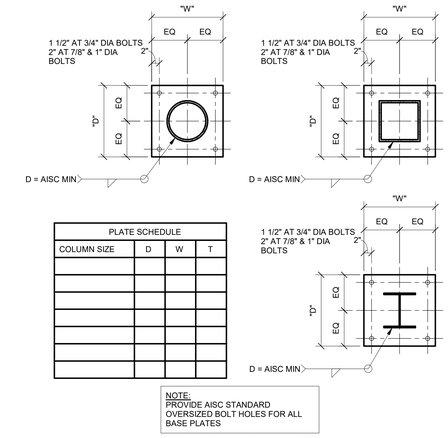


WELDED CONNECTION **BOLTED CONNECTION**

TYPICAL COLUMN TOP AT BEAMS

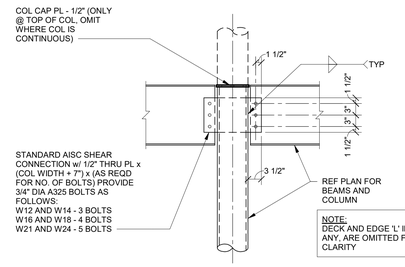
03



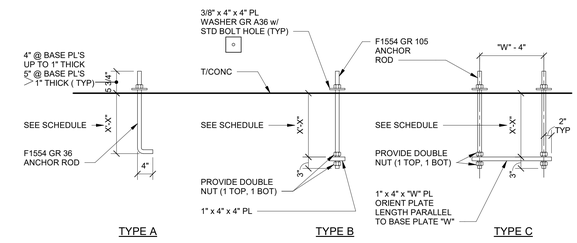


TYPICAL BASE PLATE SCHEDULE

01



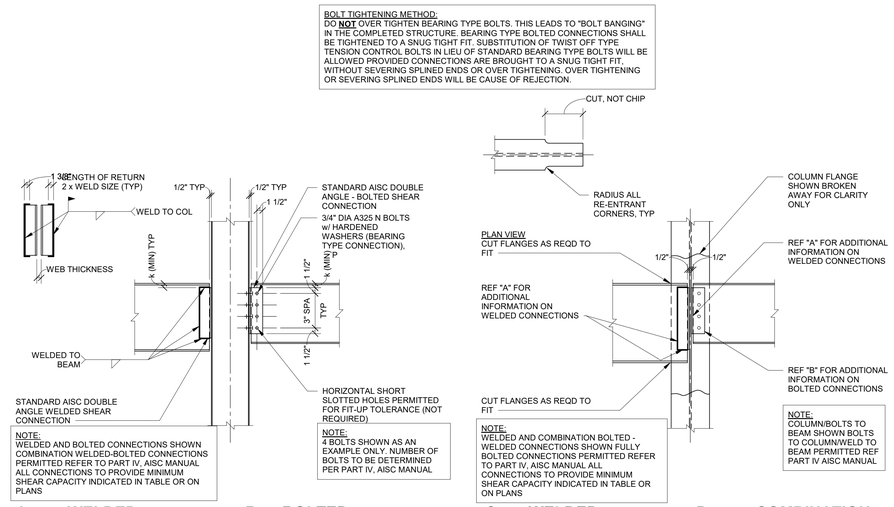
04



TYPICAL ANCHOR RODS

02

BOLT TIGHTENING METHOD:
DO **NOT** OVER TIGHTEN BEARING TYPE BOLTS. THIS LEADS TO "BOLT BANGING" IN THE COMPLETED STRUCTURE. BEARING TYPE BOLTED CONNECTIONS SHALL BE TIGHTENED TO A SNUG TIGHT FIT. SUBSTITUTION OF TWIST OFF TYPE TENSION CONTROL BOLTS IN LIEU OF STANDARD BEARING TYPE BOLTS WILL BE ALLOWED PROVIDED CONNECTIONS ARE BROUGHT TO A SNUG TIGHT FIT, WITHOUT SEVERING SPLINED ENDS OR OVER TIGHTENING. OVER TIGHTENING OR SEVERING SPLINED ENDS WILL BE CAUSE OF REJECTION.



A WELDED CONNECTION **B BOLTED CONNECTION** **C WELDED CONNECTION** **D COMBINATION BOLTED-WELDED CONNECTION**

TYPICAL BEAM TO COLUMN FRAMING CONNECTIONS

05

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr andrade Architects
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

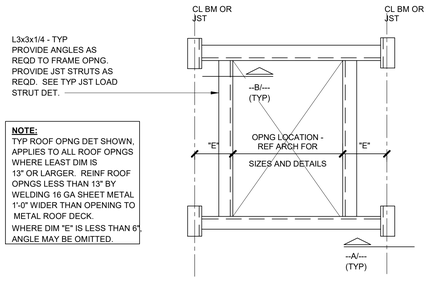
PROGRESS SET FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

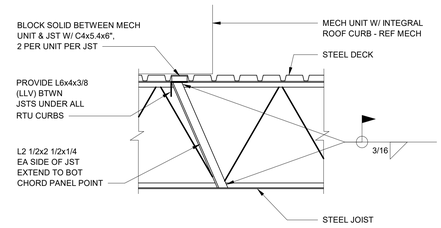
REV.	DATE	TITLE

Date: DESIGN DEVELOPMENT 02/23/2026
Project No. 3015
Drawn By: SRP
Checked By: KGN
Sheet Title: Typical Steel Details
Drawing No. **S3.10**

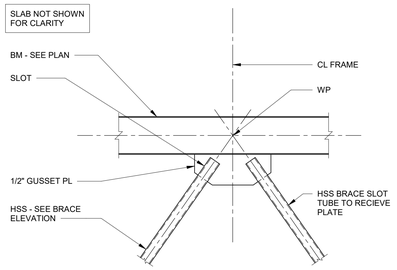
5/7/2026 10:55:04 AM



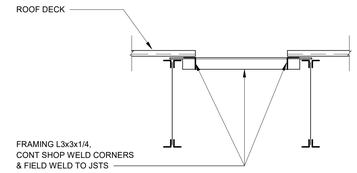
04 **TYPICAL ROOF OPENING DETAIL**



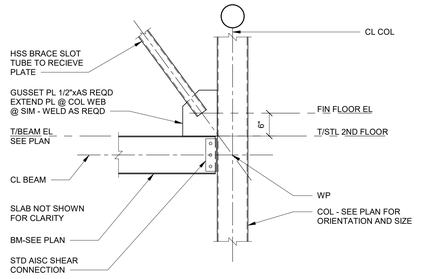
01 **MECHANICAL UNIT SUPPORT DETAIL**



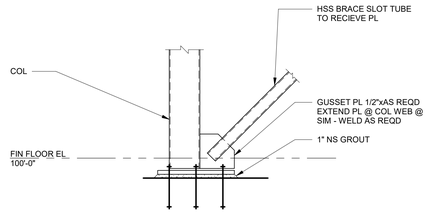
05



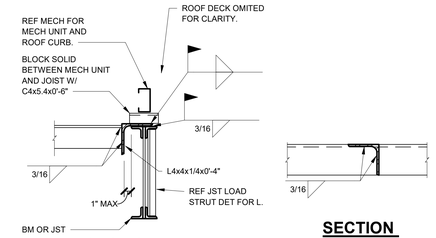
02 **TYPICAL ROOF OPENING DETAIL**



06

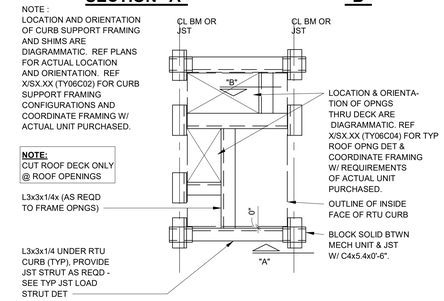


07



SECTION "A"

SECTION "B"



TYPICAL ROOF TOP UNIT SUPPORT

03

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

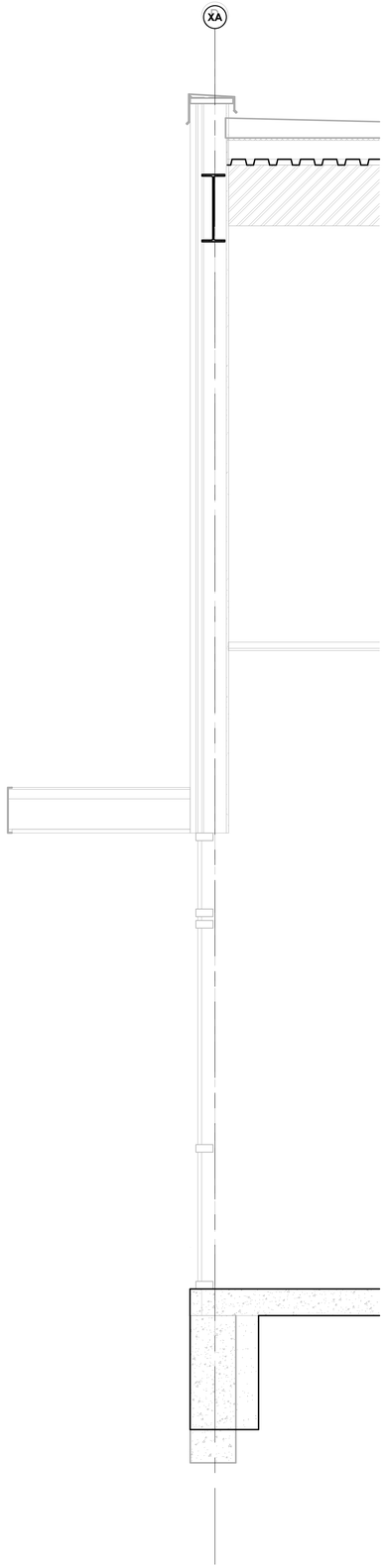
Drawn By:
SRP

Checked By:
KGN

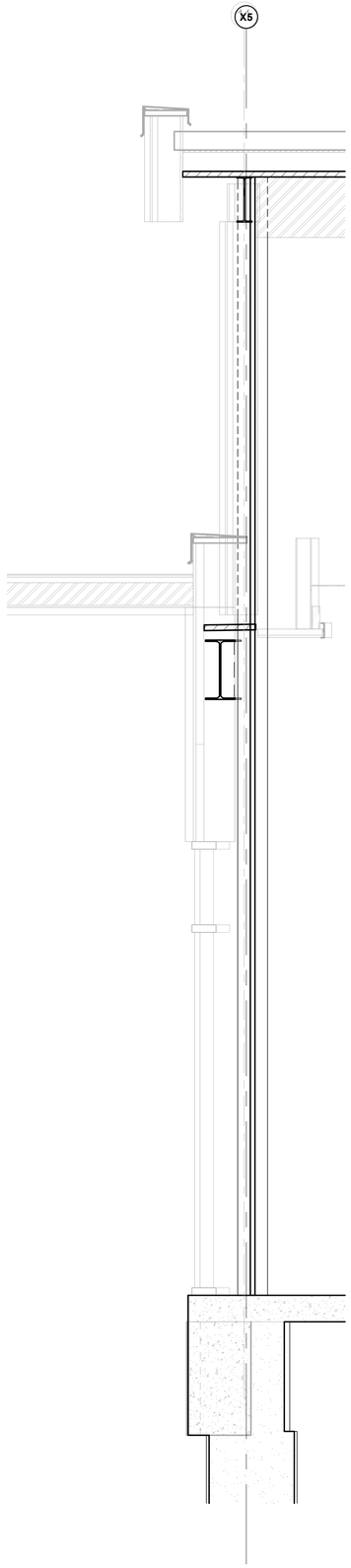
Sheet Title:
Typical Steel Details

Drawing No.
S3.11

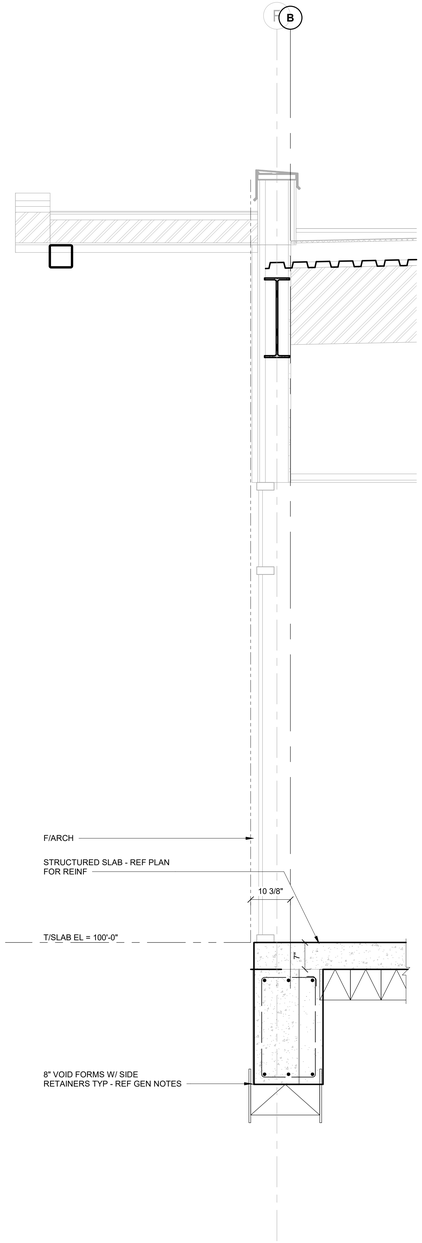
5/7/2026 10:55:05 AM



03



02



01

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

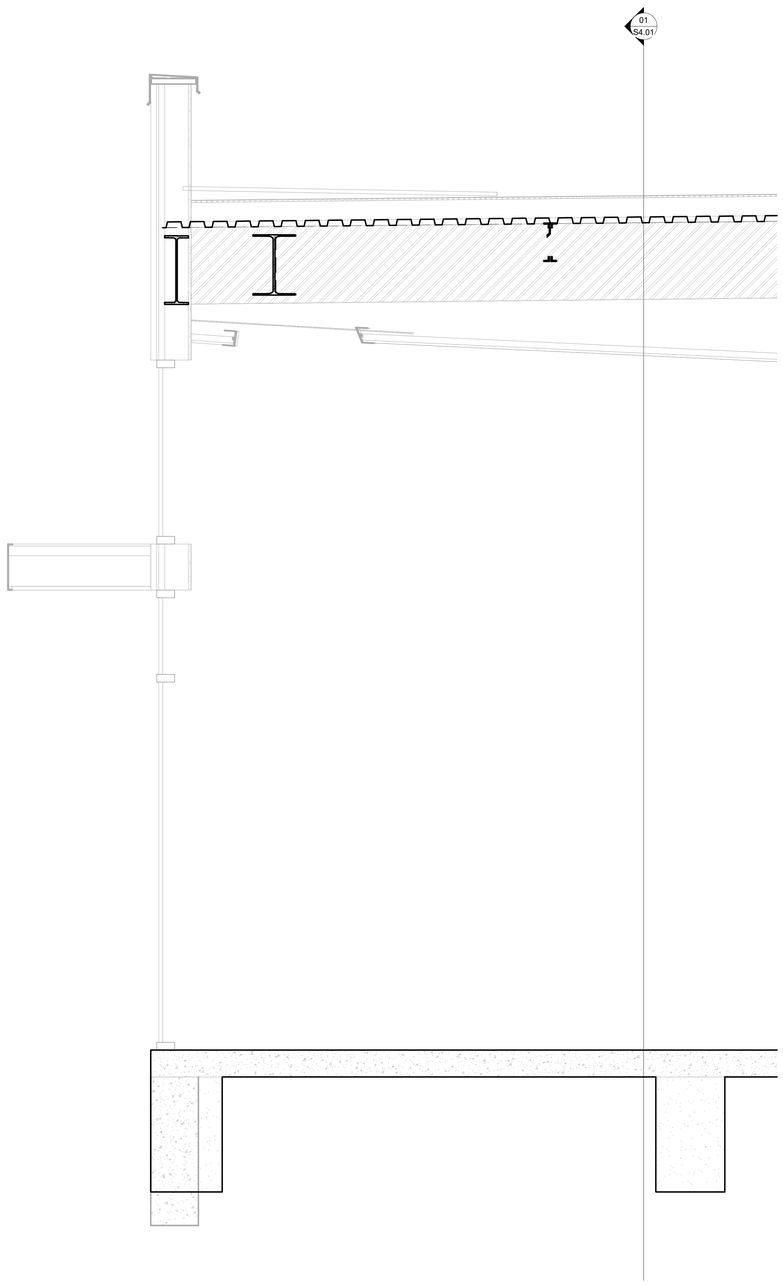
Drawn By:
SRP

Checked By:
KGN

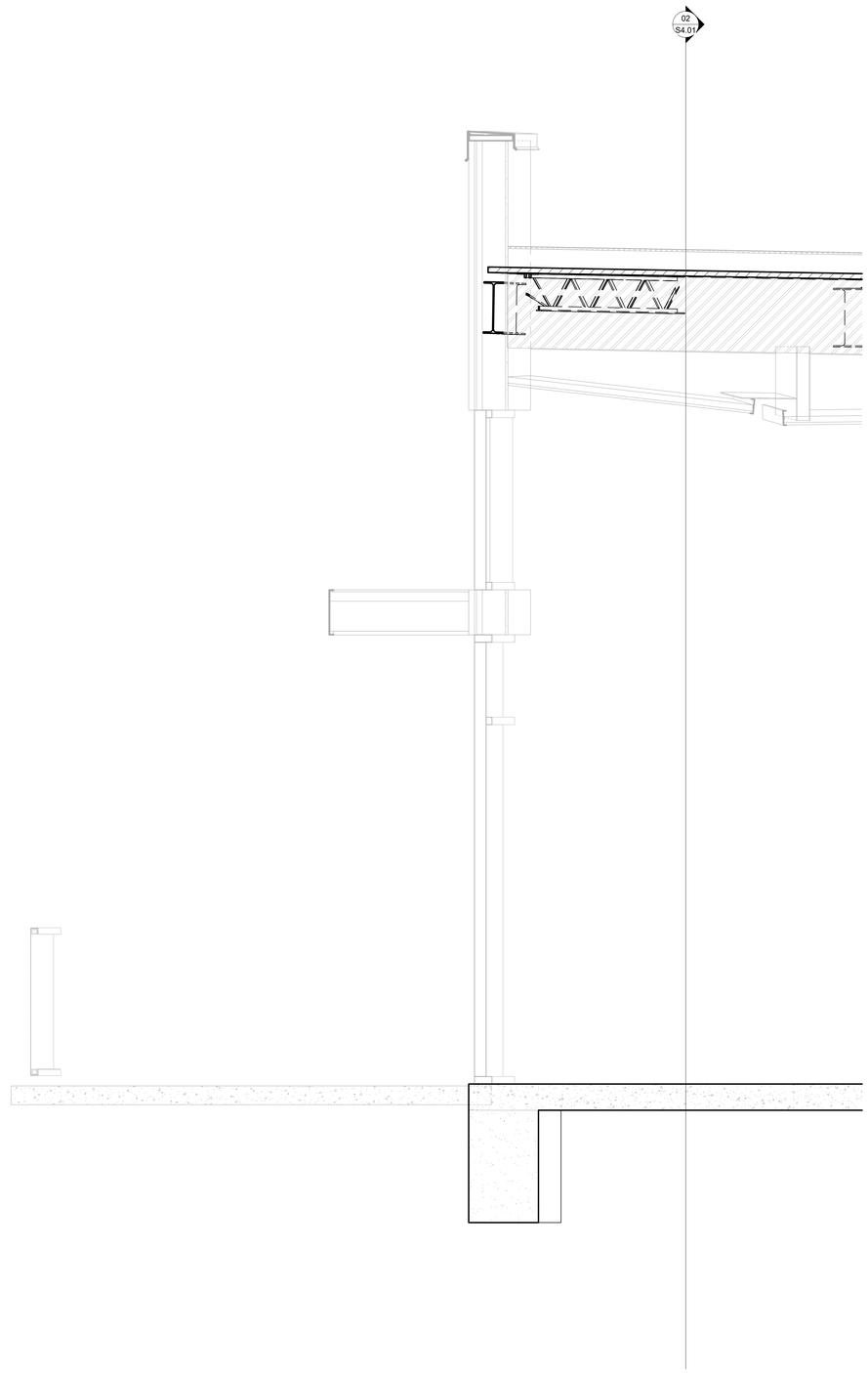
Sheet Title:
Wall Sections

Drawing No.
S4.00

5/7/2026 10:55:06 AM



02



01

Geisler Partners Consulting Engineers + RLG LLC
Project Number: 23006
12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469.404.7404
TX REG: F-21866
geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

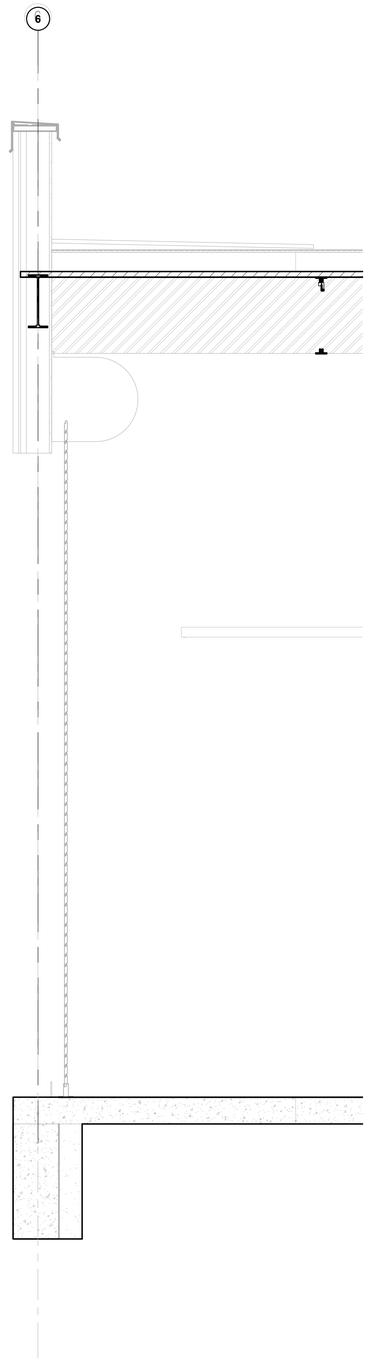
Drawn By:
SRP

Checked By:
KGN

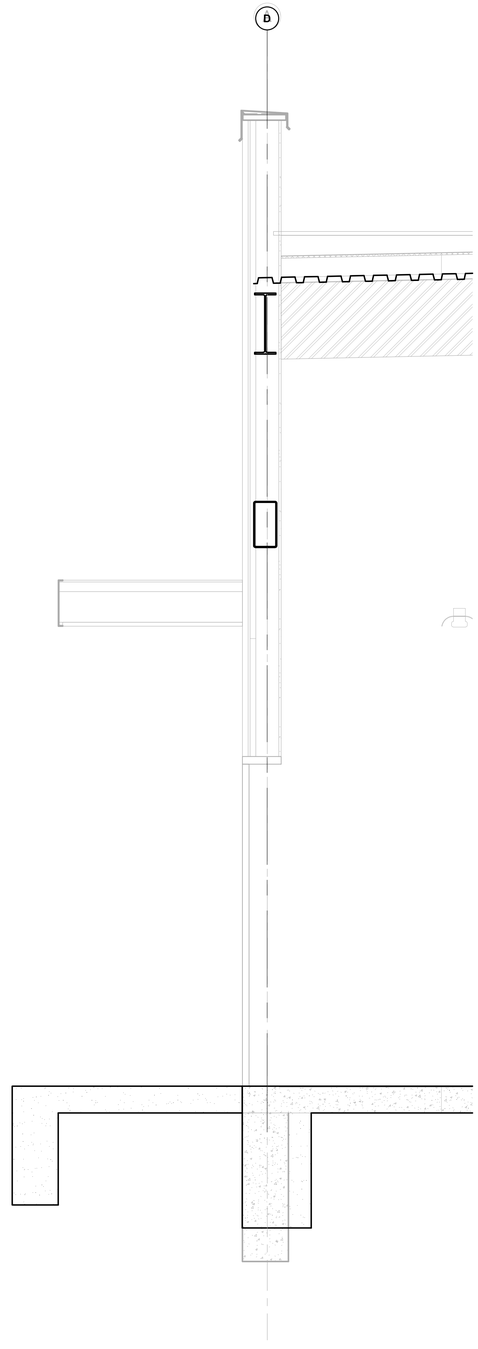
Sheet Title:
Wall Sections

Drawing No.
S4.01

5/7/2026 10:55:07 AM



03



02



01

Geisler Partners Consulting Engineers + RLG LLC

Project Number: 23006

12001 N. Central Expy, Ste 301
Dallas, Texas 75243
469-804-7404
TX REG: F-21866

geislerpartners.com

DALLAS COUNTY
ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS

Dallas, Texas 75226

P 214.824.7040

F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

PROGRESS SET
FOR REVIEW ONLY
ISSUED: 02/23/2026
These documents are for Design Review and not intended for Construction or Permit purposes.
They were prepared by, or under the supervision of:
KRISTINA F. GEISLER-NORDHOLM, P.E.
TX Serial No. 107329

Revisions:

REV.	DATE	TITLE

Date:
DESIGN DEVELOPMENT
02/23/2026

Project No.
3015

Drawn By:
SRP

Checked By:
KGN

Sheet Title:
Wall Sections

Drawing No.
S4.02

5/7/2026 10:55:08 AM

ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHRI	AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AV	ACID VENT, AIR VENT
AVG	AVERAGE
AW	ACID WASTE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS,CONTINUATION
CTR	CENTER
CU	COPPER

D

D	DEPTH, DRAIN, DRYER
DB	DRY BULB
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DDMB	DUAL DUCT MIXING BOX
DESIG	DESIGNATION
DTL	DETAIL
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPR	DAMPER
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
DX	DIRECT EXPANSION

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDB	ENTERING DRY BULB
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FAHRENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL STATION
FCU	FAN COIL UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE DEPARTMENT SIAMESE CONNECTION
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FPTU	FAN POWERED TERMINAL UNIT
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPM	GALLONS PER MINUTE
GV	GATE VALVE

H

HORIZ	HORIZONTAL
HP	HORSEPOWER
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
INV	INVERT
IW	INDIRECT WASTE

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWB	LEAVING WET BULB
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MS	MOP SINK
MTD	MOUNTED
MU	MAKE-UP
MVD	MANUAL VOLUME DAMPER
MSAH	MINI-SPLIT AIR HANDLER
MSCU	MINI-SPLIT CONDENSING UNIT

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OPEN STEM AND YOLK

P

PG	PRESSURE GAUGE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE, REFER
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAN	SANITARY SEWER
SAR	SUPPLY AIR REGISTER
SC	STEAM CONDENSATE
SCHED	SCHEDULED
SD	STORM DRAIN
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SM	SHEETMETAL
SP	STATIC PRESSURE, SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER

T

TC	TEMPERATURE CONTROL
TCC	TEMPERATURE CORNEAL COMPRESSOR
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TF	TRANSFER FAN
TH BLK	THRUST BLOCK
THERM	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TW	TEMPERED HOT WATER
TYP	TYPICAL

U

U	URINAL
UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT
VA	VOLT- AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX, VACUUM BREAKER
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VR	VARIABLE AIR VOLUME REHEAT
VTR	VENT THRU ROOF

W

W	WATT, WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWF	WELDED WIRE FABRIC

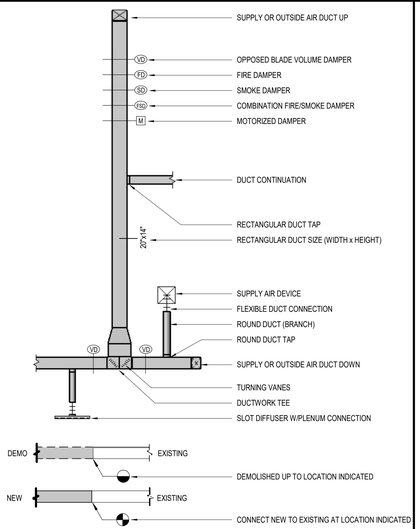
Y

Y	YARD HYDRANT

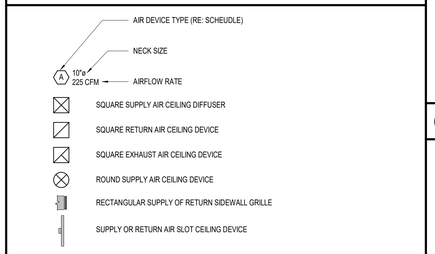
Z

Z	ZONE

DUCTWORK



AIR DEVICE TYPES



WALL MOUNTED SENSOR TYPES

T	THERMOSTAT
H	HUMIDISTAT
C	CARBON DIOXIDE SENSOR
CM	CARBON MONOXIDE SENSOR
N	NITROGEN DIOXIDE SENSOR
S	ON/OFF SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
REF	REFRIGERANT PIPING SIZED BY MFR.

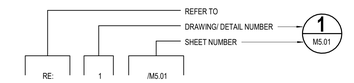
MECHANICAL GENERAL NOTES

1. PIPING AND DUCTWORK SHOWN ON PLANS ARE SCHEMATIC ONLY. COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFSET AND RUN PIPING DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ALL NECESSARY PIPING, DUCTWORK, FITTING, INSULATION, AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATIONS.
2. EXACT LOCATIONS OF EQUIPMENT, GRILLES, AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
3. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER DRAWINGS AND OUTSHEETS BEFORE FABRICATING OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING PADS.
4. SHEET METAL INLET DUCTS TO VAV TERMINAL UNITS SHALL BE SAME SIZE AS THE BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE VAV BOX IS MORE THAN 6'-0".
5. PROVIDE CONICAL SPIN-IN CONNECTOR FOR ALL ROUND DUCT CONNECTIONS TO VAV TERMINAL UNITS.
6. INSTALL EQUIPMENT TO ENSURE ACCESS PANELS ARE NOT BLOCKED. ACCESS FOR SERVICE MUST BE PROVIDED.
7. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
8. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.
9. PROVIDE RECTANGULAR BRANCH DUCT TAP FOR ALL RECTANGULAR DUCT CONNECTIONS TO RECTANGULAR DUCT TRUNKS.
10. ALL DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR HVAC DUCT CONSTRUCTION.
11. ALL OUTSIDE AIR, SUPPLY AIR, AND RETURN AIR DUCTWORK AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING. REFER TO SPECIFICATION 23 07 13 DUCT INSULATION FOR FURTHER INFORMATION AND ADDITIONAL REQUIREMENTS.
12. ALL DUCTWORK SHALL BE CONSTRUCTED TO SEAL CLASS 'A' AS REFERENCED IN SMACNA STANDARDS. ALL NON-WELDED JOINTS AND SEAMS SHALL BE SEALED. THIS INCLUDES BUT IS NOT LIMITED TO TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS, SPIN-INS, TAPS, AND OTHER BRANCH CONNECTIONS, ACCESS DOORS, ACCESS PANELS, AND DUCT CONNECTIONS TO EQUIPMENT. OPENINGS FOR ROTATING SHAFTS SHALL ALSO BE SEALED WITH BUSHINGS. REFER TO SPECIFICATION 23 31 13 METAL DUCTWORK FOR FURTHER INFORMATION.
13. ALL EXPOSED DUCTWORK AND PIPING WITH ASSOCIATED ACCESSORIES IN AREAS WITH NO CEILING OR PARTIAL CEILING SHALL BE PAINTED. REFER TO ARCHITECT FOR COLOR.
14. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE SENSORS AND HUMIDITY SENSORS.
15. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR SPIN-IN CONNECTIONS AND VOLUME DAMPERS LOCATED OVER GYPSUM CEILINGS.
16. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL 90 DEGREE ELBOWS.
17. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
18. ALL CEILING MOUNTED AND WALL MOUNTED AIR DEVICE FINISHES SHALL MATCH ADJACENT ARCHITECTURAL SURFACE. CONTRACTOR SHALL COORDINATE COLOR WITH ARCHITECT.
19. NO PIPE HANGERS SHALL BE SPACED MORE THAN 10'-0" O.C. COMPLY WITH PIPE SPACING AS SPECIFIED IN THE PIPING SUPPORT SPECIFICATIONS.
20. ALL PIPING LOCATED INSIDE BUILDING SHALL BE SUPPORTED FROM THE STRUCTURE WITH SADDLE OR TRAPEZE HANGERS WITH ADJUSTABLE CLEVIS OR THREADED RODS.
21. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL OUTSIDE AIR INTAKES TO MAINTAIN 15 FEET DISTANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST AIR OUTLET, FLUES OR PLUMBING VENTS.
22. ALL KITCHEN GREASE EXHAUST DUCTWORK SHALL BE CONTINUOUSLY WELDED 16 GA. CARBON STEEL. ALL GREASE EXHAUST DUCTS SHALL BE WRAPPED WITH 3M 2 HR. FIRE RATED WRAP OR INSTALLED WITHIN A FIRE RATED ENCLOSURE.

CONTROLS SCHEMATIC SYMBOLS LEGEND

AI	ANALOG INPUT	FS	FLOW SWITCH
AO	ANALOG OUTPUT	DAT	DISCHARGE AIR TEMPERATURE SENSOR
DI/BI	DIGITAL/BINARY INPUT	S	WALL SENSOR
DO/BO	DIGITAL/BINARY OUTPUT	T	THERMOSTAT
MD	ON-OFF MOTORIZED DAMPER	CO2	CARBON DIOXIDE SENSOR
MMD	MODULATING TYPE MOTORIZED DAMPER	SP	SET POINT
AFMS	AIR FLOW MEASURING STATION	S/A	SUPPLY AIR
MCV	CONTROL VALVE MODULATING TYPE	R/A	RETURN AIR
VFD	VARIABLE FREQUENCY DRIVE	O/A	OUTSIDE AIR
CSR	CURRENT SENSING RELAY	HC	HEATING COIL
FRZ	FREEZESTAT	CC	COOLING COIL
HSL	HIGH STATIC LIMIT	DX	DIRECT EXPANSION COOLING COIL
SPT	STATIC PRESSURE TRANSMITTER	PICCV	PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE
DPT	DIFFERENTIAL PRESSURE TRANSDUCER	AFC	AIRFLOW CROSS
FM	FLOW METER	DPS	DIFFERENTIAL PRESSURE SWITCH

DRAWING/DETAIL REFERENCE KEY



DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
MECHANICAL SYMBOL LEGEND

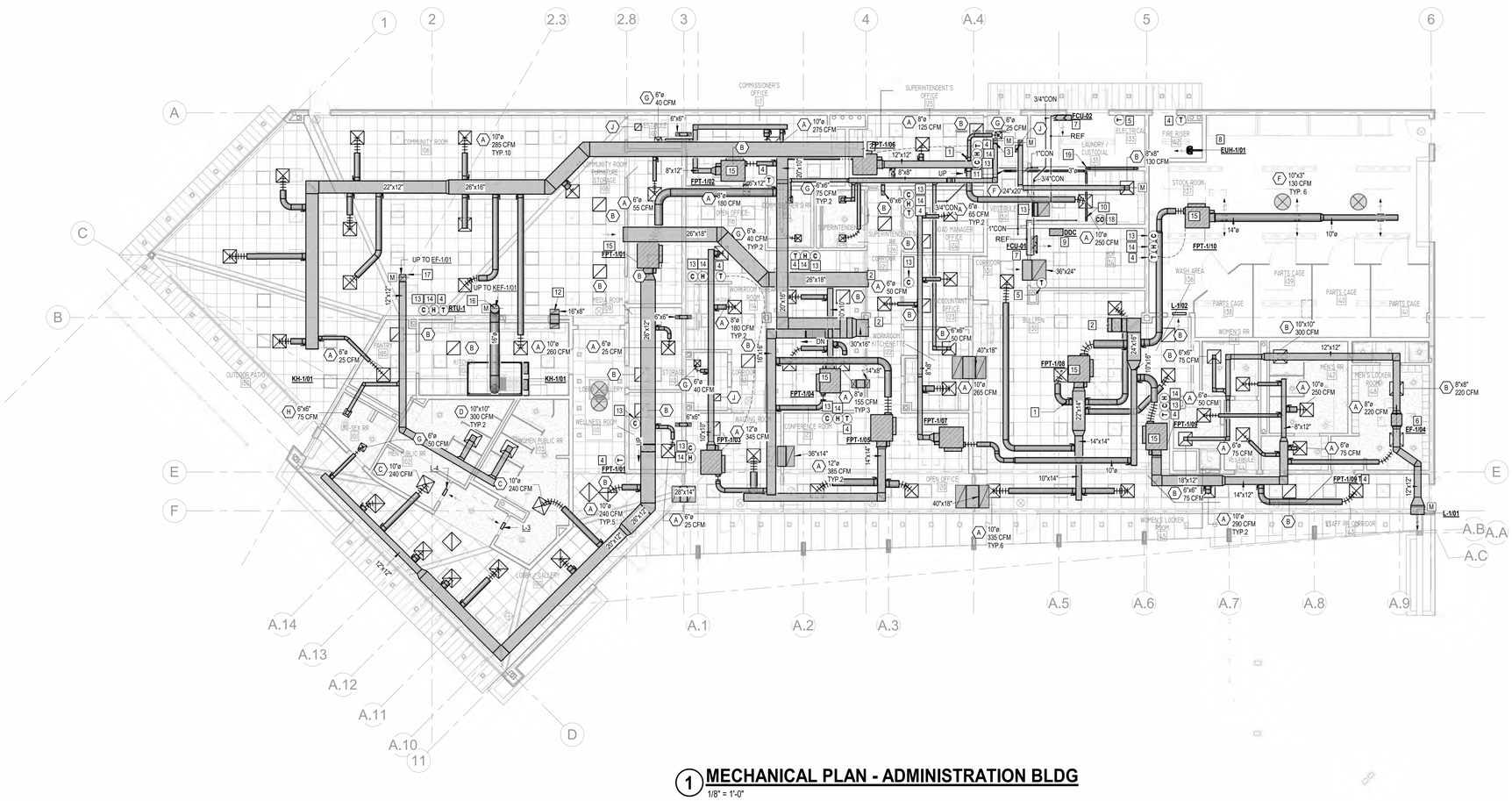
Drawing No.
M0.01

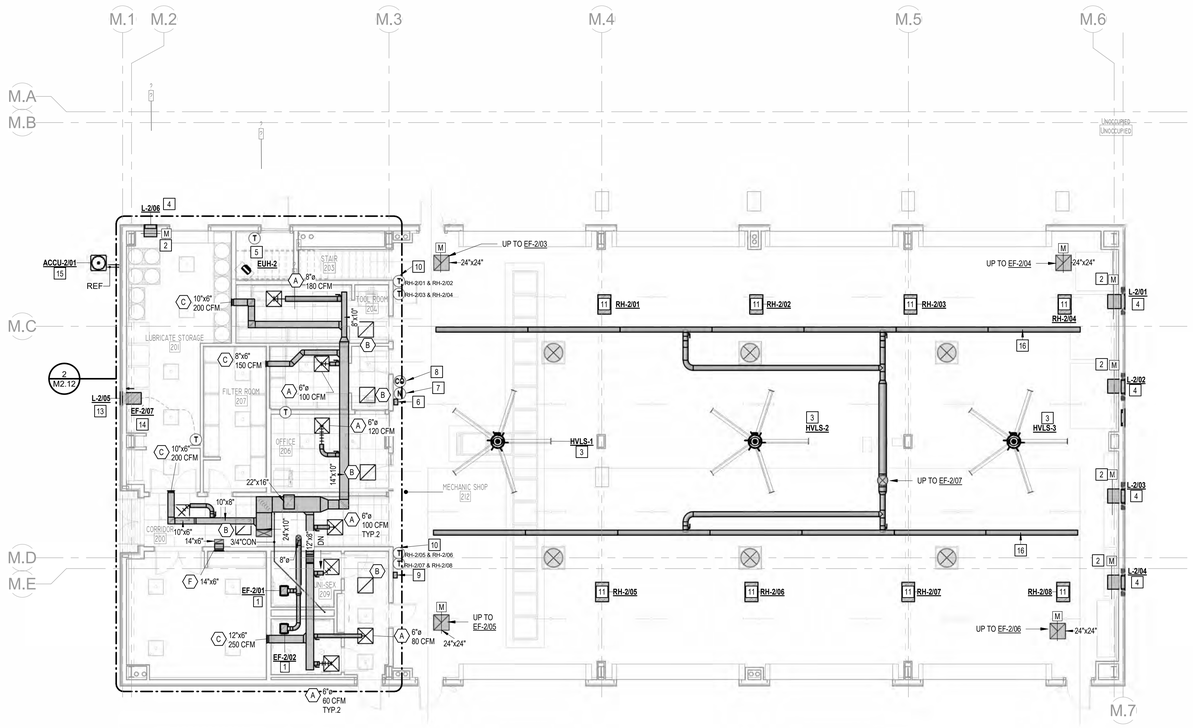
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

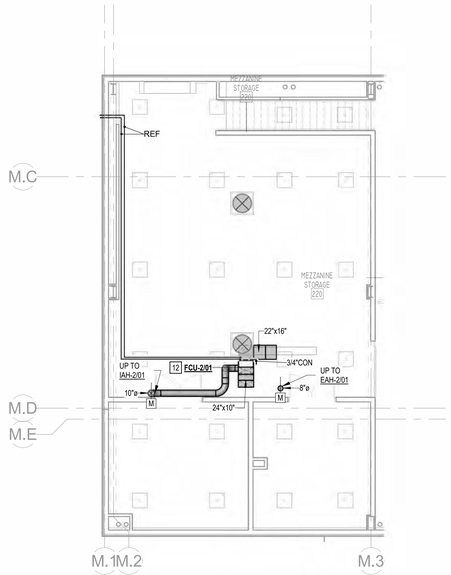
5/4/2026 1:42:42 PM


1
2
2.3
2.8
3
4
A.4
5
6
A
B
C
E
F
A.14
A.13
A.12
A.11
A.10
A.1
A.2
A.3
A.5
A.6
A.7
A.8
A.9
A.B
A.A
A.C
D
11
COMMUNITY ROOM 106
COMMISSIONER'S OFFICE 107
SUPERINTENDENT'S OFFICE 125
LAUNDRY / CUSTODIAL 133
ELECTRICAL 53
FIRE RISER 142
STOCK ROOM 137
PARTS CAGE 139
PARTS CAGE 140
PARTS CAGE 141
WASH AREA 136
WOMEN'S RR 147
MEN'S RR 148
MEN'S LOCKER ROOM 149
WOMEN'S LOCKER ROOM 150
STAFF RR CORRIDOR 151
OPEN OFFICE 102
OPEN OFFICE 103
OPEN OFFICE 104
OPEN OFFICE 105
SUPERINTENDENT 124
ROAD MANAGER'S OFFICE 126
ACCOUNTANT OFFICE 123
BULLPEN 130
CORRIDOR 129
CORRIDOR 131
CORRIDOR 132
WORKROOM 122
WORKROOM 127
KITCHENETTE 128
MEDIA ROOM 109
MEDIA STORAGE 108
COMMUNITY ROOM FURNITURE STORAGE 105
WORKROOM 101
CONFERENCE ROOM 121
WAITING ROOM 120
WELLNESS ROOM 119
LOBBY / GALLERY 100
LOBBY / GALLERY 99
PATIO 98
KITCHEN 97
OUTDOOR PATIO 96
UNI-SEX RR 95
MEN'S PUBLIC RR 93
WOMEN'S PUBLIC RR 94
UP TO EF-1/01
UP TO KEF-1/01
RTU-1
KH-1/01
KH-1/01
FCU-02
FCU-01
DDC
EUH-1/01
FPT-1/01
FPT-1/02
FPT-1/03
FPT-1/04
FPT-1/05
FPT-1/06
FPT-1/07
FPT-1/08
FPT-1/09
FPT-1/10
L-1/01
L-1/02
L-3
L-4
EF-1/04
REF.
UP
DN
CO
1"CON
3/4"CON
8"x8" 130 CFM
10"x3" 130 CFM TYP. 6
8"x8" 220 CFM
6"x6" 75 CFM
6"x6" 50 CFM
6"x6" 40 CFM
6"x6" 55 CFM
6"x6" 65 CFM TYP.2
6"x6" 75 CFM TYP.2
6"x6" 40 CFM TYP.2
6"x6" 180 CFM TYP.2
6"x6" 75 CFM TYP.3
6"x6" 155 CFM TYP.3
6"x6" 75 CFM TYP.6
6"x6" 40 CFM
6"x6" 25 CFM
6"x6" 75 CFM
6"x6" 75 CFM
6"x6" 75



1 MECHANICAL PLAN - MECHANIC'S SHOP

1/8" = 1'-0"



2 MEZZANINE PLAN - MECHANIC'S SHOP

1/8" = 1'-0"

MECHANICAL KEYED NOTES

1 PROVIDE CEILING FAN AT APPROXIMATE LOCATION SHOWN. PROVIDE NECESSARY DUCT TRANSITIONS FROM FAN DISCHARGE. RE: DETAIL 07/M6.02.

2 CONTRACTOR SHALL PROVIDE MOTORIZED DAMPER INTERLOCKED WITH EXHAUST FANS. RE SEQUENCE OF OPERATION. DAMPER ACTUATORS SHOULD BE BELIMO OR APPROVED EQUIVALENT.

3 PROVIDE HVLS FAN AS SCHEDULED AND INDICATED ON PLANS. THE FAN BLADES MUST BE A MINIMUM DISTANCE OF 2 FT IN ANY DIRECTION FROM ANY OBSTACLES (CEILING DECK, MAJOR STRUCTURAL OBSTRUCTIONS, LIGHT GRID). COORDINATE HVLS FAN INSTALLATION WITH GARAGE DOORS, HEATERS, LIGHTS, AND OTHER BUILDING COMPONENTS. THE HVLS FAN TO FIRE ALARM SYSTEMS RELAY TO DISABLE HVLS IF ALARM IS ACTIVATED.

4 PROVIDE INTAKE LOUVER AT APPROXIMATE LOCATION. PROVIDE WITH FULL-SIZE SHEETMETAL PLENUM. LOUVER SHALL HAVE DIMENSIONS AND MINIMUM FREE AREA NOTED ON PLANS. COORDINATE WITH EXISTING CONDITIONS FOR FINAL LOCATION FINAL FINISH SHALL BE DETERMINED BY ARCHITECT. RE: DETAIL 10/M-602.

5 PROVIDE ELECTRIC UNIT HEATER AT APPROXIMATE LOCATION SHOWN. MOUNT AT 8 FEET A.F.F. PROVIDE THERMOSTAT. MOUNT THERMOSTAT AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE WITH ARCHITECT AND OTHER TRADES PRIOR TO CONSTRUCTION TO AVOID CONFLICT WITH EQUIPMENT. HEATER SHALL BE SET TO TURN ON THE HEATER WHEN SPACE TEMPERATURE FALLS BELOW 50°F.(ADJUSTABLE).

6 PROVIDE TOXALERT GAS DETECTION SYSTEM CONTROLLER MODEL GVU-6 AND INSTALL ABOVE CO SENSOR. 24 VOLTS AC SHALL BE PROVIDED BY CONTROL CONTRACTOR.

7 PROVIDE NITROGEN DIOXIDE DETECTOR, TOXALERT MODEL GVU-NO2. 1'-0" A.F.F. EF-B-04 AND EF-B-05 SHALL ENERGIZE WHEN THE NO2 DETECTOR DETECTS A CONCENTRATION OF 1 PPM OF NO2. A VISUAL AND AUDIBLE ALARM WILL SIGNAL WHEN NO2 DETECTOR DETECTS 3 PPM OF NO2. DETECTORS SHALL BE INSTALLED AND CALIBRATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SYSTEM WITH CALIBRATION GAS KIT AND GUARD. CALIBRATION TO BE PERFORMED ANNUALLY.

8 PROVIDE CARBON MONOXIDE DETECTOR, TOXALERT MODEL GVU-CO. 5'-0" A.F.F. EF-B-04 AND EF-B-02 SHALL ENERGIZE WHEN THE CO DETECTOR DETECTS A CONCENTRATION OF 25 PPM OF CO. A VISUAL AND AUDIBLE ALARM WILL SIGNAL WHEN CO DETECTOR DETECTS 100 PPM OF CO. DETECTORS SHALL BE INSTALLED AND CALIBRATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SYSTEM WITH CALIBRATION GAS. CALIBRATION TO BE PERFORMED ANNUALLY.

9 PROVIDE WIRED WALL MOUNTED CONTROLLER FOR HVLS FAN. CONTROLLER SHALL BE PROVIDED BY HVLS FAN MANUFACTURER. INSTALL AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS.

10 PROVIDE THERMOSTAT AT APPROXIMATE LOCATION SHOWN. THERMOSTAT SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES. RECONNECT TO EXISTING CONDUIT. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS.

11 PROVIDE RADIANT HEATER AT APPROXIMATE LOCATION SHOWN. MOUNT 5 FEET MINIMUM BENEATH ROOF. PROVIDE THERMOSTAT. MOUNT THERMOSTAT AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE WITH ARCHITECT AND OTHER TRADES PRIOR TO CONSTRUCTION TO AVOID CONFLICT WITH EQUIPMENT. HEATER SHALL BE SET TO TURN ON THE HEATER WHEN SPACE TEMPERATURE FALLS BELOW 50°F.(ADJUSTABLE).

12 PROVIDE DUCTED FAN COIL UNIT AT APPROXIMATE LOCATION SHOWN. RE: DETAIL 04/M6.02. PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE WITH ADJACENT PIPING, WALLS, CONDUIT, STRUCTURAL MEMBERS, ETC. RE: DETAIL 12/M6.01.

13 PROVIDE EXHAUST LOUVER AT APPROXIMATE LOCATION. PROVIDE WITH FULL-SIZE SHEETMETAL PLENUM. LOUVER SHALL HAVE DIMENSIONS AND MINIMUM FREE AREA NOTED ON PLANS. COORDINATE WITH EXISTING CONDITIONS FOR FINAL LOCATION FINAL FINISH SHALL BE DETERMINED BY ARCHITECT. RE: DETAIL 08/M-602.

14 PROVIDE PROP FAN, AS SCHEDULED, AT APPROXIMATE LOCATION SHOWN. COORDINATE FINAL LOCATION WITH ALL NEW CONDITIONS AND OTHER TRADES TO ENSURE PROPER CLEARANCES AND ACCESS ARE PROVIDED. SUSPEND FAN FROM STRUCTURE. RE: DETAIL 10/M-602.

15 PROVIDE GRADE-MOUNTED AIR COOLED CONDENSING UNIT AT APPROXIMATE LOCATION SHOWN. INSTALL UNIT ON 6" HIGH CONCRETE HOUSEKEEPING PAD. PROVIDE ALL CLEARANCES AROUND CONDENSER AS REQUIRED BY EQUIPMENT MANUFACTURER. RE: DETAIL 05/M6.02.

16 PROVIDE HARVEY RAIL SYSTEM HRX-812 (OR APPROVED EQUAL). REFER TO MANUFACTUER'S RECOMMENDATION FOR INSTALLATION. TYPICAL (7).

MECHANIC SHOP 212 EXHAUST FAN SEQUENCE OF OPERATIONS.

SHOULD CARBON MONOXIDE GAS CONCENTRATION OCCUR ABOVE 25 PPM (ADJ.) OR NITROGEN DIOXIDE GAS CONCENTRATION OCCUR ABOVE 1 PPM (ADJ.) AN ALARM SIGNAL FROM ANY SENSOR UNIT SHALL START A 30 SECOND DELAY. SHOULD THE CONCENTRATION PERSIST THROUGH THE DELAY PERIOD, THE LOW ALARM SHALL BE ACTIVATED. UPON ACTIVATION OF THE LOW ALARM, THE "FAN-ON" RELAY SHALL ENERGIZE EF-2/03, EF-2/04, EF-2/05, AND EF-2/06 AND THESE FANS WILL REMAIN ENERGIZED UNTIL THE CARBON MONOXIDE GAS AND NITROGEN DIOXIDE GAS CONCENTRATION FALL BELOW THE SET POINT. SHOULD THE CONCENTRATION OF CARBON MONOXIDE EXCEED 100 PPM OR THE CONCENTRATION OF NITROGEN DIOXIDE EXCEED 3 PPM, THE FANS SHALL REMAIN ENERGIZED AND THE "HIGH ALARM" RELAY WILL ENERGIZE AND VISUAL AND AUDIBLE ALARMS SHALL ALERT OCCUPANTS OF THE HIGH CONCENTRATION.

THE SENSORS SHALL HAVE A WATER/DUST TIGHT AND CORROSION RESISTANT ENCLOSURE. THE CARBON MONOXIDE SENSORS SHALL BE MOUNTED 5 FEET ABOVE THE FINISHED FLOOR AND THE NITROGEN DIOXIDE SENSORS SHALL BE MOUNTED 1 FOOT ABOVE THE FINISHED FLOOR.

THE EXHAUST FANS SHALL BE INTERLOCKED WITH THEIR INTAKE LOUVERS. LOUVERS SHALL OPEN TO FULL OPEN POSITION WHEN FANS ARE ENERGIZED.

PROVIDE WALL-MOUNTED MOMENTARY PUSH BUTTON MANUAL OVERRIDE SWITCH. WHEN MOMENTARY PUSH BUTTON IS PUSHED EF-2/03, EF-2/04, EF-2/05, AND EF-2/06 WILL RUN FOR 10 MINUTES.

TOXALERT MODEL NUMBERS:
CO REMOTE SENSORS: GVU-CO
NO2 REMOTE SENSORS: GVU-NO2
CONTROL PANEL: GVU-6

ACCESSORIES:
AUDIBLE ALARM WITH PUSH BUTTON AUDIO SILENCE
FAN ON INDICATOR
FAN OVERRIDE TIMER
SENSOR STATUS INDICATORS PER SENSOR

IN ADDITION EF-2/03, EF-2/04, EF-2/05, AND EF-2/06 WILL BE INTERLOCKED WITH THE ALERTING SYSTEM. ONCE THE ALERTING SYSTEM HAS BEEN ACTIVATED, THERE WILL BE A 3 MINUTE DELAY PRIOR TO ENERGIZING FANS. FANS WILL THEN RUN CONTINUOUSLY FOR 10 MINUTES. IF WITHIN THIS PERIOD OF TIME THE ALERTING SYSTEM IS ACTIVATED, THE CYCLE WILL RESTART TO THE 3 MINUTE DELAY.

TN PN

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB | TD | EM | DW | ZB

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

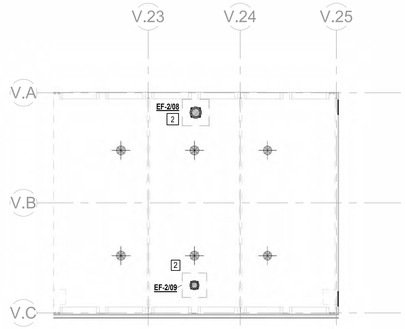
Drawn By:
DBR

Checked By:
DBR

Sheet Title:
MECHANICAL PLAN LEVEL 1 - MECHANIC'S SHOP

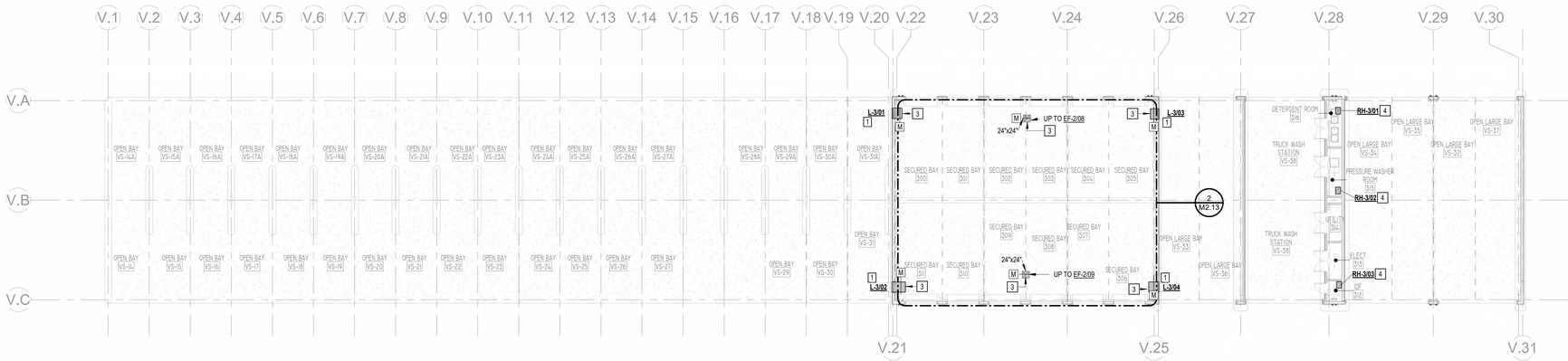
Drawing No.
M2.12

5/4/2026 1:43:24 PM



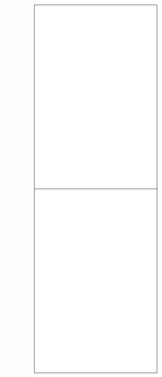
2 ROOF PLAN - VEHICLE STORAGE BLDG

1/16" = 1'-0"



1 MECHANICAL PLAN - VEHICLE STORAGE BLDG

1/16" = 1'-0"



MECHANICAL KEYED NOTES

1 PROVIDE INTAKE LOUVER AT APPROXIMATE LOCATION. PROVIDE WITH FULL-SIZE SHEETMETAL PLENUM. LOUVER SHALL HAVE DIMENSIONS AND MINIMUM FREE AREA NOTED ON PLANS. COORDINATE WITH EXISTING CONDITIONS FOR FINAL LOCATION. FINAL FINISH SHALL BE DETERMINED BY ARCHITECT. RE: DETAIL 10/M-602.

2 PROVIDE ROOF MOUNTED EXHAUST FAN AT APPROXIMATE LOCATION SHOWN. PROVIDE FAN WITH ROOF CURB TO MATCH ROOF SLOPE. RE: DETAIL 01/M6.02.

3 CONTRACTOR SHALL PROVIDE MOTORIZED DAMPER INTERLOCKED WITH EXHAUST FANS. RE SEQUENCE OF OPERATION. DAMPER ACTUATORS SHOULD BE BELIMO OR APPROVED EQUIVALENT.

4 PROVIDE RADIANT HEATER AT APPROXIMATE LOCATION SHOWN. MOUNT 5 FEET MINIMUM BENEATH ROOF. PROVIDE THERMOSTAT. MOUNT THERMOSTAT AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE WITH ARCHITECT AND OTHER TRADES PRIOR TO CONSTRUCTION TO AVOID CONFLICT WITH EQUIPMENT. HEATER SHALL BE SET TO TURN ON THE HEATER WHEN SPACE TEMPERATURE FALLS BELOW 50°F (ADJUSTABLE).

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
MECHANICAL PLAN LEVEL 1 - VEHICLE STORAGE BLDG

Drawing No.
M2.13

TN PN

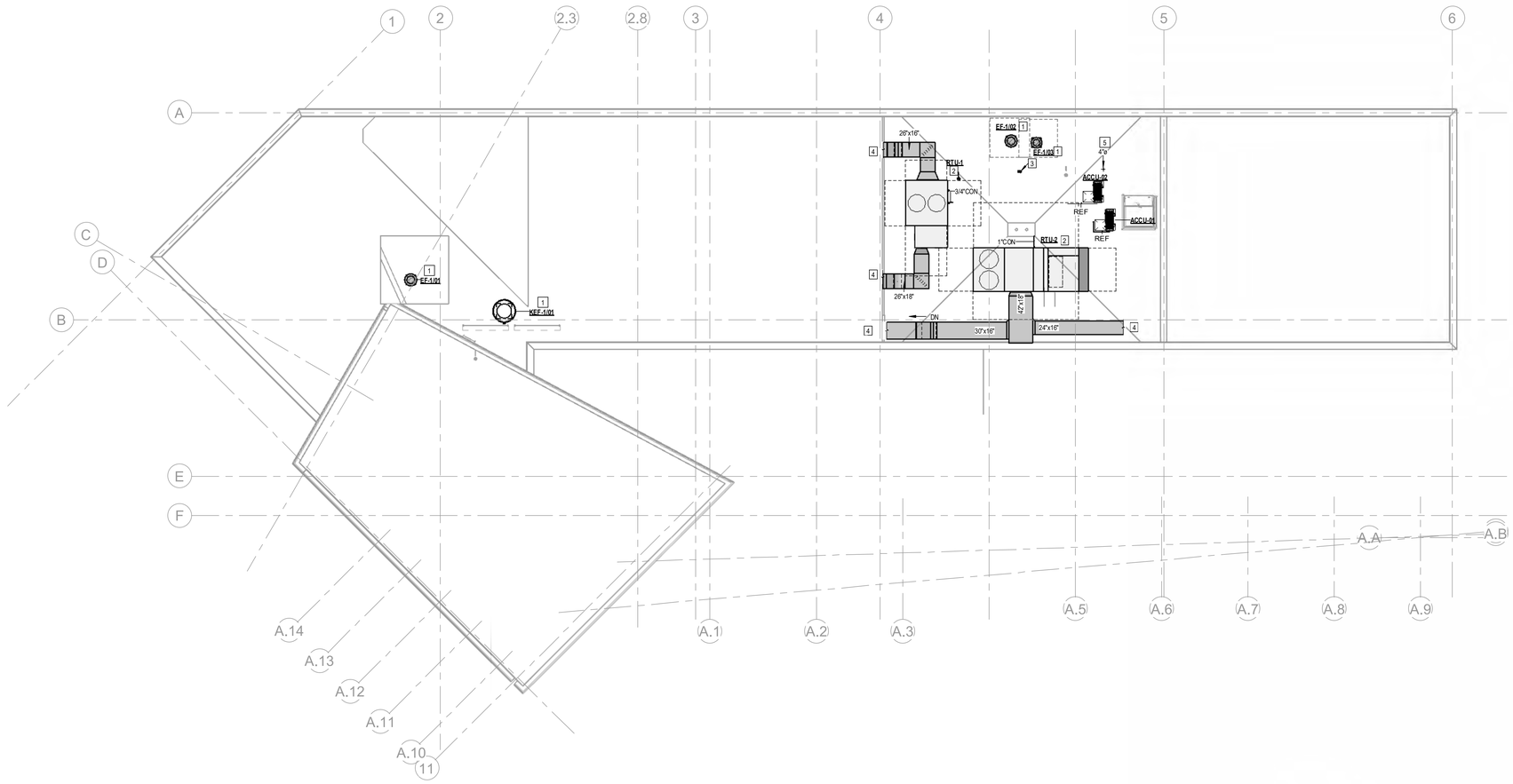
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f

TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

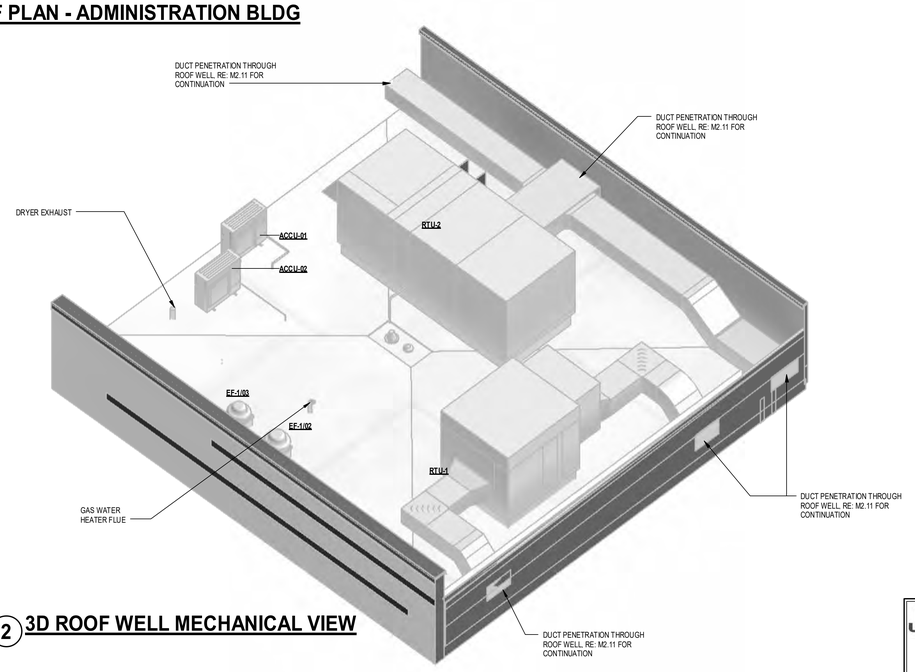
NB	TD	EM	DW	ZB

5/4/2026 1:43:44 PM



1 MECHANICAL ROOF PLAN - ADMINISTRATION BLDG

1/8" = 1'-0"



2 3D ROOF WELL MECHANICAL VIEW

MECHANICAL KEYED NOTES

1 PROVIDE ROOF MOUNTED EXHAUST FAN AT APPROXIMATE LOCATION SHOWN. PROVIDE FAN WITH ROOF CURB TO MATCH ROOF SLOPE. RE: DETAIL 17/M6.01.

2 PROVIDE PACKAGED ROOFTOP UNIT ON ROOF AT APPROXIMATE LOCATION SHOWN. PROVIDE UNIT WITH ROOF CURB TO MATCH ROOF SLOPE. PROVIDE ALL CLEARANCES AROUND UNIT AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE FINAL LOCATION WITH STRUCTURAL. RE: DETAIL 14/M6.01.

3 GAS WATER HEATER FLUE UP THROUGH ROOF.

4 DUCTWORK THROUGH ROOF WELL TO ABOVE CEILING PLENUM, RE: M2.11 FOR CONTINUATION.

5 PROVIDE MANUFACTURER'S ROOF CAP WITH BACKDRAFT DAMPER AND BIRDSCREEN FOR DRYER EXHAUST TERMINATION. PROVIDE FIRE WRAP FOR DUCT LOCATED IN RETURN PLENUM. RE.: DETAIL 27/M6.01.

TN PN

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.687.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING, PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

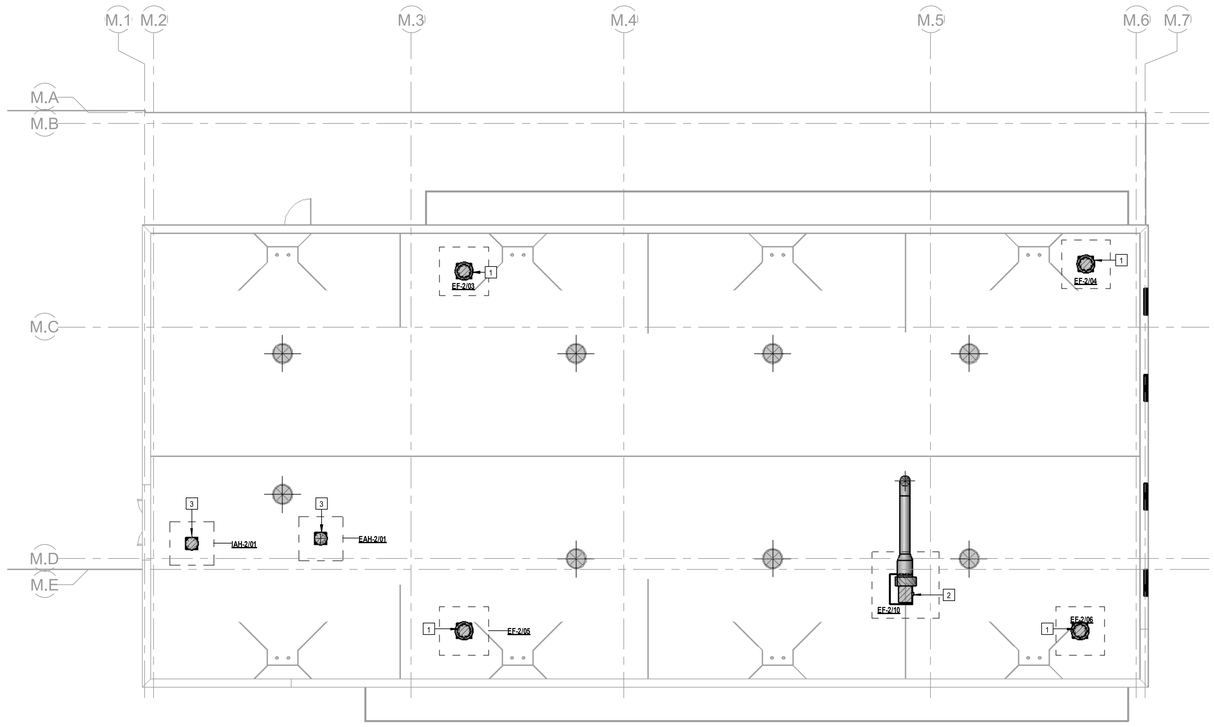
Drawn By:
Author

Checked By:
DBR

Sheet Title:
MECHANICAL ROOF PLAN - ADMINISTRATION BLDG

Drawing No.
M2.31

5/4/2026 1:44:02 PM



1 MECHANICAL ROOF PLAN - MECHANIC'S SHOP

1/8" = 1'-0"

MECHANICAL KEYED NOTES

1 PROVIDE ROOF MOUNTED EXHAUST FAN AT APPROXIMATE LOCATION SHOWN. PROVIDE FAN WITH ROOF CURB TO MATCH ROOF SLOPE. RE: DETAIL 17/M6.01.

2 PROVIDE PACKAGED ROOFTOP UNIT ON ROOF AT APPROXIMATE LOCATION SHOWN. PROVIDE UNIT WITH ROOF CURB TO MATCH ROOF SLOPE. PROVIDE ALL CLEARANCES AROUND UNIT AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE FINAL LOCATION WITH STRUCTURAL. RE: DETAIL 14/M6.01.

3 PROVIDE ROOF MOUNTED GRAVITY HOOD AT APPROXIMATE LOCATION SHOWN. PROVIDE HOOD WITH ROOF CURB TO MATCH ROOF SLOPE. RE: DETAIL 03/M6.02.

TN PN

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.687.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

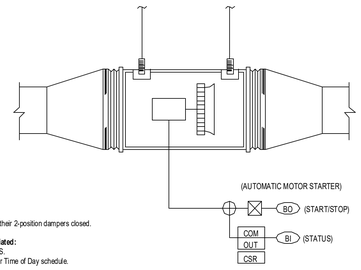
Checked By:
DBR

Sheet Title:
MECHANICAL ROOF PLAN - MECHANIC'S SHOP

Drawing No.
M2.32

5/4/2026 1:44:09 PM

AUTOMATICALLY CONTROLLED EXHAUST FANS (TOILET ROOMS, LOCKER ROOMS, ETC.)



SYSTEM OFF - When the system is off:
Automatically controlled exhaust fans shall be off and their 2-position dampers closed.

SYSTEM START-UP - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on Night-Setback or Time of Day schedule.

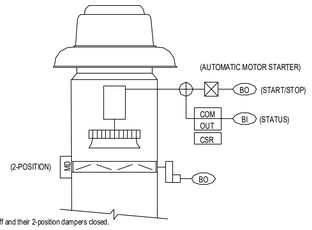
AUTOMATICALLY CONTROLLED EXHAUST FANS: Upon activation of building occupied mode and start-up of the air handling system, the EMCS shall energize all automatically controlled exhaust fans and open their respective two-position motorized dampers. The EMCS shall monitor the status of each automatically controlled exhaust fan and shall assign the scheduled exhaust numerical CFM value to each fan as indicated on the mechanical equipment schedules. Upon activation of the building unoccupied mode, the automatically controlled building exhaust fans shall be de-energized.

Fan Status:
The controller shall monitor the fan status.

Alarms shall be provided as follows:
Fan Failure: Commanded on, but the status is off.
Fan in Hand: Commanded off, but the status is on.
Fan Runtime Exceeded: Fan status runtime exceeds a user definable limit (adj.).

4 Automatically Controlled Temperature Based Exhaust Fans - Control Schematic and Sequence of Operations — NOT TO SCALE — EF-1/04

AUTOMATICALLY CONTROLLED EXHAUST FANS (TOILET ROOMS, LOCKER ROOMS, ETC.)



SYSTEM OFF - When the system is off:
Automatically controlled exhaust fans shall be off and their 2-position dampers closed.

SYSTEM START-UP - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on Night-Setback or Time of Day schedule.

AUTOMATICALLY CONTROLLED EXHAUST FANS: Upon activation of building occupied mode and start-up of the air handling system, the EMCS shall energize all automatically controlled exhaust fans and open their respective two-position motorized dampers. The EMCS shall monitor the status of each automatically controlled exhaust fan and shall assign the scheduled exhaust numerical CFM value to each fan as indicated on the mechanical equipment schedules. Upon activation of the building unoccupied mode, the automatically controlled building exhaust fans shall be de-energized.

Fan Status:
The controller shall monitor the fan status.

Alarms shall be provided as follows:
Fan Failure: Commanded on, but the status is off.
Fan in Hand: Commanded off, but the status is on.
Fan Runtime Exceeded: Fan status runtime exceeds a user definable limit (adj.).

2 Automatically Controlled Exhaust Fan - Control Schematic and Sequence of Operations — NOT TO SCALE — EF-1/01, EF-1/02, EF-1/03

AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI/BI	DIGITAL/BINARY INPUT
DO/BO	DIGITAL/BINARY OUTPUT
MD	ON-OFF MOTORIZED DAMPER
MMD	MODULATING TYPE MOTORIZED DAMPER
AFMS	AIR FLOW MEASURING STATION
MCV	CONTROL VALVE MODULATING TYPE
VFD	VARIABLE FREQUENCY DRIVE
CSR	CURRENT SENSING RELAY
FRZ	FREEZESTAT
HSL	HIGH STATIC LIMIT
SPT	STATIC PRESSURE TRANSMITTER
DPT	DIFFERENTIAL PRESSURE TRANSDUCER
FM	FLOW METER
FS	FLOW SWITCH
DAT	DISCHARGE AIR TEMPERATURE SENSOR
S	WALL SENSOR
T	THERMOSTAT
CO2	CARBON DIOXIDE SENSOR
SP	SET POINT
S/A	SUPPLY AIR
R/A	RETURN AIR
O/A	OUTSIDE AIR
HC	HEATING COIL
CC	COOLING COIL
DX	DIRECT EXPANSION COOLING COIL
PICCV	PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE
AFC	AIRFLOW CROSS
DPS	DIFFERENTIAL PRESSURE SWITCH

1 CONTROL SCHEMATIC LEGEND — NOT TO SCALE

Outdoor Air Conditions.
The sensors shall be mounted in an area on the north side of the building where the representative temperature and humidity can be monitored, both shall have sun shields. Based on the outdoor air temperature and humidity the EMCS shall calculate the outdoor air enthalpy, wet bulb and dew point temperatures. These outdoor air conditions shall be broadcast as global data points for use by other control programs. These shall be displayed on all major air and water systems graphics.

Electrical Switchgear Power Meter Monitoring.
The EMCS shall provide BACnet/IP or Modbus TCP communications to the interface modules to monitor the building power usage. The interface modules shall be provided by the switchgear manufacturer per Division 26. The EMCS shall monitor building kW, kWH, kVAR, Power Factor, 3-Phase Amps and Volts, along with all variables available via this interface. The EMCS shall provide a graphic representation to show the current usage, monthly usage, year to date usage, and time and date of the highest peak demand for the month and year. Demand thresholds may be set to adjust setpoints and shed loads in order to reduce peak consumption.

Electrical Branch Circuit Power Meter Monitoring.
The EMCS shall provide BACnet/IP or Modbus TCP communications to the power monitor. The power monitor locations shall be shown on the Division 26 drawings. The EMCS shall monitor kW, kWH, kVAR, Power Factor, 3-Phase Amps and Volts, along with all variables available via this interface. The EMCS shall provide a graphic representation to show the current usage, monthly usage, year to date usage, and time and date of the highest peak demand for the month and year. Demand thresholds may be set to adjust setpoints and shed loads in order to reduce peak consumption.

Intelligent Lighting Controls Integration.
The EMCS shall provide BACnet/IP communications to the Lighting Control System interface module to monitor and control the building and site lighting. The interface shall be provided by the manufacturer per Division 26. The EMCS shall monitor and control the lighting circuits as shown on the Electrical Drawings.

Emergency Generator Monitoring.
The EMCS shall monitor the run status and alarm output of the generator. The EMCS shall display the values and trend log all Change of State (COS) events. The EMCS shall report alarms to the computers, pagers, and/or text message compatible devices designated by the Owner.

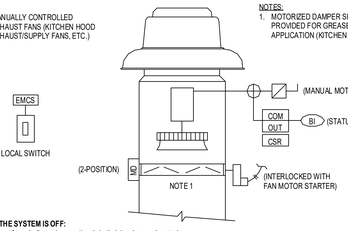
Building Domestic Water Metering.
The EMCS shall monitor the building domestic water meter, which is to be furnished by the EMCS contractor and installed by Division 22 contractor at the service entry to the building. This flow meter shall be provided regardless of any water metering provisions on site. The EMCS shall display and trend log the following: the monthly usage, yearly usage, accumulative total usage, and alarm when excessive flow is measured. The EMCS shall report alarms to the computers, pagers, and/or text message compatible devices designated by the Owner.

IDF and MDF Room Monitoring.
The EMCS shall monitor the space temperature and humidity in the IDF and MDF rooms. The primary cooling for IDF and MDF rooms will be supplied by the packaged computer room units. The EMCS shall report high/low temperature/humidity alarms to the computers, pagers, and/or text message compatible devices designated by the Owner. Alarms shall be sent if the space conditions deviate from the following, temperature between 60 °F and 80 °F (adj), humidity between 40% RH and 70% RH (adj), for more than 10 minutes.

5 MISCELLANEOUS SYSTEMS — NOT TO SCALE

MANUALLY CONTROLLED EXHAUST FANS (KITCHEN HOOD EXHAUST/SUPPLY FANS, ETC.)

NOTES:
1. MOTORIZED DAMPER SHALL NOT BE PROVIDED FOR GREASE DUCT APPLICATION (KITCHEN EXHAUST FANS).



SYSTEM OFF - WHEN THE SYSTEM IS OFF:
Manually controlled exhaust fans shall remain operational via their local manual controls.

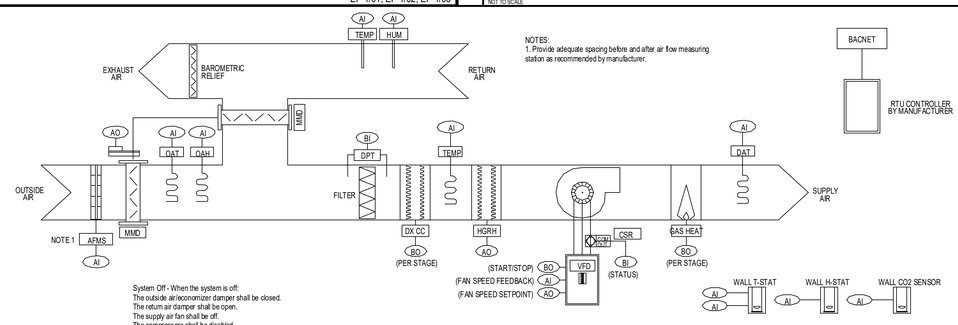
SYSTEM START-UP - SYSTEM START-UP SHALL BE INITIATED:
By an operator command at local manual control.

MANUALLY CONTROLLED EXHAUST FANS: Manually controlled exhaust fans shall utilize two-position motorized damper interlocked with their manual motor starter. The EMCS shall monitor the status of each manually controlled exhaust fan and shall assign the scheduled exhaust numerical CFM value to each fan as indicated on the mechanical equipment schedules.

Fan Status:
The controller shall monitor the fan status.

Alarms shall be provided as follows:
Fan Failure: Commanded on, but the status is off.
Fan in Hand: Commanded off, but the status is on.
Fan Runtime Exceeded: Fan status runtime exceeds a user definable limit (adj.).

6 Manually Controlled Exhaust/Supply Fans - Control Schematic and Sequence of Operations — NOT TO SCALE — KEF-1/01



NOTES:
1. Provide adequate spacing before and after air flow measuring station as recommended by manufacturer.

System Off - When the system is off:
The outside air/economizer damper shall be closed.
The return air damper shall be open.
The supply air fan shall be off.
The compressors shall be disabled.
The hot gas reheat valve shall be closed.
The gas burner(s) shall be disabled.
The control loops shall be disabled.

System Startup - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on Pre-Start Mode or Night-Setback Mode.

Pre-Start Mode:
The system shall be enabled automatically by the EMCS based on the Optimal Start/Stop algorithm. Once enabled, the system shall operate per the system Operation section, as detailed below. Operation of the system during Pre-Start Mode shall not include ventilation air. Economizer mode shall be permitted to operate per the System Operation section as detailed below.

Night Setback Mode:
The system shall be enabled automatically by the EMCS when the space temperature drifts outside the active Unoccupied Cooling or Heating Setpoint. Once enabled, the system shall operate per the System Operation section as detailed below. Operation of the system during Night-Setback Mode shall not include ventilation air. Economizer mode shall be permitted to operate per the System Operation section as detailed below.

System Operation - When system start-up has been initiated:
The variable speed supply air fan shall start. Following a conformation of fan start status, the supply fan speed shall be modulated to the minimum speed reference value. The speed of the fan shall not be adjusted by more than 20 Hz in any one-minute period. The unit shall be controlled by one of the following modes:
COOLING MODE: When the space temperature is above the Cooling Setpoint, the refrigerant compression shall be staged to maintain the active DX coil discharge air temperature setpoint. The supply fan VFD shall modulate from its minimum setting to its maximum setting as required to maintain the active space Cooling Setpoint.

ECONOMIZER MODE: When the outside air enthalpy is less than 28.0 btu/lb, the outside air dry bulb temperature is less than 75°F, and there is a call for cooling, the outside air/economizer and return air dampers shall be modulated such that the unit provides 100% outside air for space cooling, and the refrigerant compression shall be staged to maintain the active DX coil discharge air temperature setpoint, and the supply fan VFD shall modulate from its minimum setting to its maximum setting as required to maintain the active space Cooling Setpoint. The barometric relief damper integral to the unit shall prevent building over-pressurization. If the outside air enthalpy exceeds 28.0 btu/lb or the outside air temperature exceeds 75°F, or if there is no longer a call for cooling, Economizer Mode shall be disabled.

HEATING MODE: When the space temperature is below the Heating Setpoint, the gas burner shall be staged to maintain the active gas heating discharge air temperature setpoint. The supply fan VFD shall modulate from its minimum setting to its maximum setting as required to maintain the active space Heating Setpoint.

DE-HUMIDIFICATION MODE: When the space humidity is above the space humidity high-limit setpoint, the refrigerant compression shall be staged to maintain the active de-humidification DX coil discharge air temperature setpoint, the supply fan VFD shall modulate to its minimum setting, and the hot gas reheat valve shall modulate to maintain the reheat setpoint as required. The unit shall exit de-humidification mode when the space humidity setpoint has been satisfied for at least 10 minutes (adj).

DEMAND CONTROL VENTILATION - During occupied hours, the outside air flow rate shall modulate from its scheduled maximum flow rate to its scheduled minimum flow rate. If the space CO2 level is at least 100 ppm (adj) less than its active high limit setpoint for a time period of 10 minutes (adj), the outside air/economizer damper and return air damper shall be modulated to maintain the minimum scheduled outside air flow rate. If the space CO2 level rises to within 50 ppm (adj) of its active high limit, the outside air/economizer damper and return air damper shall be modulated to maintain the scheduled maximum outside air flow rate.

Outside Air/Economizer Damper / Return Air Damper Integration with Supply Fan VFD: Dynamic control of the outside air/economizer damper and return air damper positions shall be provided through the full range of the supply fan VFD modulation. The outside air/economizer and return air motorized dampers shall modulate to maintain the active outside air flow rate setpoint. Damper positions shall not be adjusted by more than 20% (adj) in any one-minute time period.

System Setpoints - The setpoints for the system shall be determined as follows:
The maximum speed reference value shall be the VFD speed required to obtain the design supply airflow value from the unit schedule on the Mechanical Drawings.
The minimum speed reference value shall be VFD speed required to obtain 50% of the design supply airflow value from the unit schedule on the mechanical drawings but not less than the active outside air flow rate setpoint.
The Occupied Heating Setpoint shall be set initially at 72 °F (adjustable).
The Occupied Cooling Setpoint shall be set initially at 74 °F (adjustable).
The Unoccupied Heating Setpoint shall be set initially at 55 °F (adjustable).
The Unoccupied Cooling Setpoint shall be set initially at 85 °F (adjustable).
The DX coil discharge air temperature setpoint shall be set initially at 53 °F (adjustable).
The de-humidification DX coil discharge air temperature setpoint shall be set initially at 50 °F (adjustable).
The gas heating discharge air temperature setpoint shall be set initially at 85 °F (adjustable).
The space humidity high-limit setpoint shall be set initially at 60% RH (adjustable).
The reheat setpoint shall be set initially at 75 °F (adjustable).
The minimum outside air flow rate setpoint shall be set at the scheduled minimum flow rate from the unit schedules on the mechanical drawings.
The maximum outside air flow rate setpoint shall be set at the scheduled maximum flow rate from the unit schedule on the mechanical drawings.
The space carbon dioxide high-limit setpoint be set to 1000 ppm (adj).
The air filter pressure differential high-limit shall be set at 1.0 in.wc. (adj).

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Night-Setback or Time of Day schedule.
Automatically by supply fan current sensor status failure.

System Alarms - The EMCS shall generate an alarm if:
If the space temperature is outside the active low or high limits by more than 2°F for 5 minutes (adj).
If the supply air temperature drops below the DX coil discharge air temperature low-limit of 45 °F for 5 minutes (adj).
If the supply air temperature rises above the gas heating discharge air temperature high-limit of 100 °F for 5 minutes (adj).
If the space humidity level exceeds its high-limit for more than 20 minutes (adj).
If the space carbon dioxide level exceeds its high-limit for more than 20 minutes (adj) or the space carbon dioxide level exceeds the high-limit by 10% or more.
If the filter differential pressure exceeds the trip point.
If the current sensor relay indicates a supply fan failure status.
All alarms shall be inhibited when the supply fan is not operating except the space temperature alarms. The alarms, except the fan failure and the space temperature alarms, shall remain inhibited following startup of the unit for 2 minutes.

Notes:
The equipment manufacturer's unit controller shall include controls to perform all equipment functions. The EMCS Contractor shall integrate with the unit controller via BACnet for detailed setpoint adjustments, unit monitoring, alarm inputs, and equipment scheduling.

3 Direct Expansion Single Zone VAV Rooftop Unit w/ Gas Heat, Econ., De-humidification, DCV - Control Schematic and Sequence of Operations — NOT TO SCALE — RTU-1

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116061

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
DBR

Sheet Title:
MECHANICAL CONTROL SEQUENCES

Drawing No.
M4.01

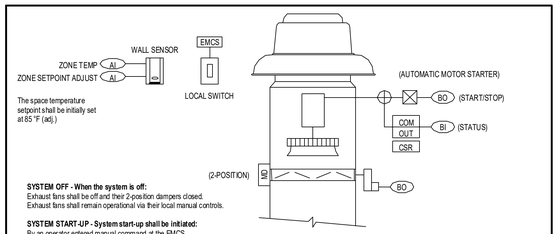
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f

TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 1:44:15 PM



The space temperature setpoint shall be initially set at 85 °F (adj.)

SYSTEM OFF - When the system is off:
Exhaust fans shall be off and their 2-position dampers closed.
Exhaust fans shall remain operational via their local manual controls.

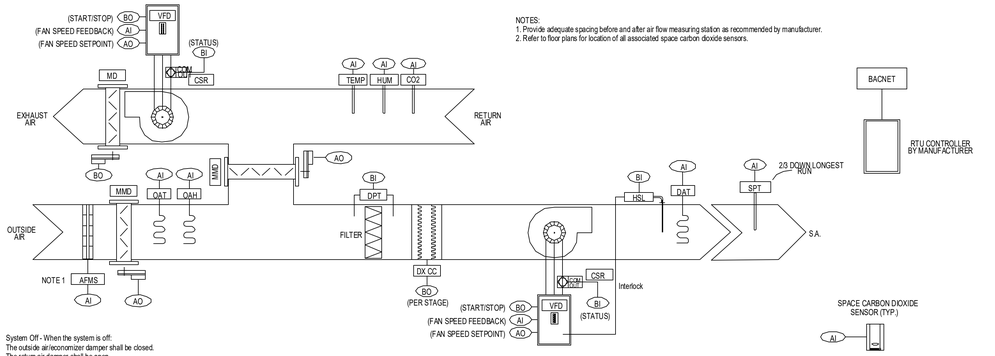
SYSTEM START-UP - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on the associated space temperature setpoint.
By an operator command at local manual control.

AUTOMATICALLY CONTROLLED (TEMP. BASED) EXHAUST FANS: Upon activation of building occupied mode and start-up of the air handling system, the EMCS shall allow exhaust fans to be energized based on the associated space temperature setpoint, and their respective two-position motorized dampers shall open. The EMCS shall monitor the status of each exhaust fan and shall assign the scheduled exhaust numerical CFM value to each fan as indicated on the mechanical equipment schedules. Upon activation of the building unoccupied mode, the automatically controlled building exhaust fans shall be de-energized and shall only become energized via the local override switch.

Fan Status:
The controller shall monitor the fan status.

Alarms shall be provided as follows:
Fan Failure: Commanded on, but the status is off.
Fan in Hand: Commanded off, but the status is on.

6 Automatically Controlled Temperature Based Exhaust Fans with Local Override Switch - Control Schematic and Sequence of Operations
NOT TO SCALE



NOTES:
1. Provide adequate spacing before and after air flow measuring station as recommended by manufacturer.
2. Refer to floor plans for location of all associated space carbon dioxide sensors.

System Off - When the system is off:
The outside air/economizer damper shall be closed.
The return air damper shall be open.
The exhaust air damper shall be closed.
The supply air fan shall be off.
The exhaust air fan shall be off.
The compressors shall be disabled.
The control loops shall be disabled.

System Startup - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on Pre-Start Mode or Night-Setback Mode.

Pre-Start Mode:
The system shall be enabled automatically by the EMCS based on the Optimal Start/Stop algorithm. Once enabled, the system shall operate per the system Operation section, as detailed below. Operation of the system during Pre-Start Mode shall not include ventilation air. Economizer mode shall be permitted to operate per the System Operation section as detailed below.

Night Setback Mode:
The system shall be enabled automatically by the EMCS based on the cooling demand of 5 (adjustable) or more associated terminal units whose space temperature has exceeded the terminal unit's Unoccupied Cooling Setpoint. Once enabled, the system shall operate per the System Operation section as detailed below. Operation of the system during Night-Setback Mode shall not include ventilation air. Economizer mode shall be permitted to operate per the System Operation section as detailed below.

System Operation - When system start-up has been initiated:
The variable speed supply fan shall start. Following a confirmation of fan start status, the supply fan speed shall be modulated to maintain the supply air static pressure at setpoint. The speed of the fan shall not be adjusted by more than 20% in any one-minute period. The static pressure setpoint shall be reset via the control algorithm below to optimize the energy usage.
Supply Air Static Pressure Reset - The static pressure setpoint shall be reset up in defined increments at defined intervals until the primary air damper position to all of the associated terminal units have been below the defined value for more than the defined interval. The static pressure setpoint shall be reset down in defined increments at defined intervals until the primary air damper position to at least one (critical zone) of the associated terminal units has been above the defined value for more than the defined interval.
The setpoints are detailed in the **System Setpoint** section below.

COOLING MODE: The refrigerant compression shall be staged to maintain the active supply air temperature setpoint. The supply air temperature setpoint shall be reset via the control algorithm below to optimize the energy usage.
Supply Air Temperature Reset - The supply air temperature setpoint shall be reset based on the actual return air temperature, according to the defined reset schedule detailed in the **System Setpoint** section below. If the Demand Control Ventilation sequence is in maximum outdoor air flow mode or Economizer Mode is active, then the supply air temperature reset shall be disabled and the setpoint shall be set to the initial value.

ECONOMIZER MODE: When the outside air enthalpy is less than 28.0 btu/lb, the outside air dry bulb temperature is less than 75°F, and there is a call for cooling, the outside air/economizer and return air dampers shall be modulated such that the unit provides 100% outside air for space cooling, and the refrigerant compression shall be staged to maintain the active supply air temperature setpoint. During Economizer Mode the exhaust air damper shall open and the variable speed exhaust fan shall start. Following confirmation of fan start status, the exhaust fan speed shall be modulated to match the speed of the supply fan with an adjustable 10% offset to maintain positive building pressure. If the outside air enthalpy exceeds 28.0 btu/b or the outside air temperature exceeds 75°F, or there is no longer a call for cooling, Economizer Mode shall be disabled.

DEMAND CONTROL VENTILATION - During occupied hours, the outside air flow rate shall modulate from its scheduled maximum flow rate to its scheduled minimum flow rate. If the CO2 concentration of the return air CO2 sensor or any of the associated zone space CO2 sensors are at least 100 ppm (adj) less than the active high limit setpoint for a time period of 10 minutes (adj), the outside air/economizer damper and return air damper shall be modulated to maintain the minimum scheduled outside air flow rate. If the CO2 concentration of the return air CO2 sensor or any associated zone space CO2 sensor rises to within 50 ppm (adj) of the active high limit, the outside air/economizer damper and return air damper shall be modulated to maintain the scheduled maximum outside air flow rate.

Outside Air Damper / Return Air Damper Integration with Supply Fan VFD: Dynamic control of the outside air damper and return air damper positions shall be provided through the full range of the supply fan VFD modulation. The outside air and return air motorized dampers shall modulate in sequence to maintain the active outside air flow rate setpoint. The outside air damper shall first modulate open. If the outside air damper has reached the 100% open position and still cannot achieve the active outside air flowrate setpoint, then the return air damper shall begin to modulate closed. The return air damper position shall have a low limit of 50% open (adj) during normal system operation. Damper positions shall not be adjusted by more than 20% (adj) in any one-minute time period.

System Setpoints - The setpoints for the system shall be determined as follows:
The maximum speed reference value shall be the VFD speed required to obtain the design supply airflow value from the unit schedule on the Mechanical Drawings.
The minimum speed reference value shall be VFD speed required to obtain 50% of the design supply airflow value from the unit schedule on the mechanical drawings but not less than the active outside air flow rate setpoint.
The supply air static pressure setpoint shall be set initially at 1.2 inches w.c. (adj) and shall have reset limits of 0.15 to 1.2 inches w.c. (adj).
The time interval for static pressure reset shall be set at 10 minutes (adj).
The static pressure reset increment shall be set at 0.05 inches w.c. (adj)
The terminal unit primary damper position setpoint shall be 90% open. (adj)
The time interval for terminal unit primary damper position shall be set at 15 minutes. (adj)
The supply air temperature setpoint shall be set initially at 54 °F (adjustable).
The supply air temperature setpoint shall be reset to 54 °F (adj.) when the return air temperature is at 78°F (adj.)
The supply air temperature setpoint shall be reset to 58 °F (adj.) when the return air temperature is at 72°F (adj.)
The minimum outside air flowrate setpoint shall be set at the scheduled minimum flowrate from the unit schedules on the mechanical drawings.
The maximum outside air flowrate setpoint shall be set at the scheduled maximum flowrate from the unit schedule on the mechanical drawings.
The space carbon dioxide high-limit setpoint be set to 1000 ppm (adj).
The air filter pressure differential high-limit shall be set at 1.0 in.wc. (adj).
The supply air static pressure high limit setpoint shall be set initially at 2.5 inches w.c. (adj).

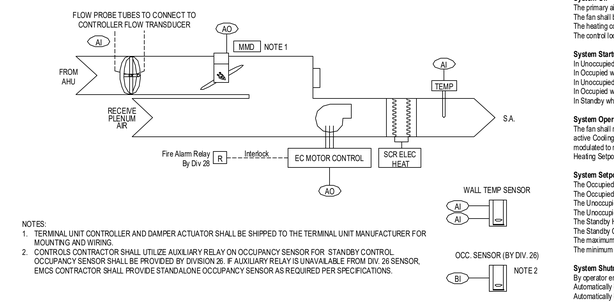
System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Night-Setback or Time of Day schedule.
Automatically by supply fan current sensor status failure.
Automatically by the high-static pressure shut down.

System Alarms - The EMCS shall generate an alarm if:
If the supply air temperature is above or below the active setpoint by more than 2°F for 5 minutes (adj).
If any associated space carbon dioxide level exceeds its high-limit for more than 20 minutes (adj) or the space carbon dioxide level exceeds the high-limit by 10% or more.
If the filter differential pressure exceeds the trip point.
If the current sensor relay indicates a supply fan failure status.
If the current sensor relay indicates an exhaust fan failure status.
All alarms shall be inhibited when the supply fan is not operating except the space temperature alarms. The alarms, except the fan failure and the space temperature alarms, shall remain inhibited following startup of the unit for 2 minutes.

Notes:
The equipment manufacturer's unit controller shall include controls to perform all equipment functions. The EMCS Contractor shall integrate with the unit controller via BACnet for detailed setpoint adjustments, unit monitoring, alarm inputs, and equipment scheduling.

1 Direct Expansion VAV Rooftop Unit w/ Economizer and DCV - Control Schematic and Sequence of Operations
NOT TO SCALE

RTU-2



NOTES:
1. TERMINAL UNIT CONTROLLER AND DAMPER ACTUATOR SHALL BE SHIPPED TO THE TERMINAL UNIT MANUFACTURER FOR MOUNTING AND WIRING.
2. CONTROLS CONTRACTOR SHALL UTILIZE AUXILIARY RELAY ON OCCUPANCY SENSOR FOR STANDBY CONTROL. OCCUPANCY SENSOR SHALL BE PROVIDED BY DIVISION 26. IF AUXILIARY RELAY IS UNAVAILABLE FROM DIV. 26 SENSOR, EMCS CONTRACTOR SHALL PROVIDE STANDALONE OCCUPANCY SENSOR AS REQUIRED PER SPECIFICATIONS.

System Off - When the system is off:
The primary air damper shall be closed.
The fan shall be off.
The heating coil shall be disabled.
The control loops shall be disabled.

System Startup - Startup shall be initiated automatically by the EMCS:
In Unoccupied when the corresponding AHU is in UNOCCUPIED MODE.
In Occupied when the corresponding AHU is in PRE-START MODE.
In Unoccupied when the corresponding AHU is in NIGHT-SETBACK MODE.
In Occupied when the corresponding AHU is in OCCUPIED MODE.
In Standby when the corresponding AHU is in OCCUPIED MODE and the zone-mounted Occupancy Sensor times out.

System Operation - When system start-up has been initiated, the following sequences shall be implemented:
The fan shall run. The primary air damper shall be modulated between the minimum and maximum values to maintain the space temperature within +/- 0.5 °F of the active Cooling Setpoint. When the space temperature falls below the deadband, the primary air damper shall be modulated to the minimum flow value, the fan shall be modulated to maintain its scheduled heating airflow rate, and the electric heat shall be modulated to maintain the space temperature within +/- 0.5 °F of the active Heating Setpoint.

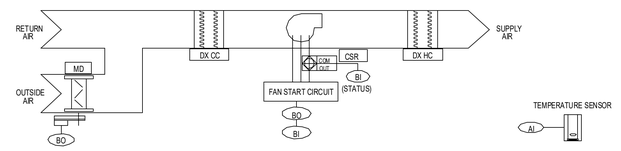
System Setpoints - The setpoints for the system shall be set as follows:
The Occupied Heating Setpoint shall be set initially at 70 °F (adjustable).
The Occupied Cooling Setpoint shall be set initially at 74 °F (adjustable).
The Unoccupied Heating Setpoint shall be set initially at 55 °F (adjustable).
The Unoccupied Cooling Setpoint shall be set initially at 85 °F (adjustable).
The Standby Heating Setpoint shall be set initially at 68 °F (adjustable).
The Standby Cooling Setpoint shall be set initially at 76 °F (adjustable).
The maximum heating mode discharge air temperature shall be set at 85 °F (adjustable).
The minimum and maximum primary air flowrates shall set at the values given in the Mechanical Drawings.

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Night-Setback or Time of Day schedule for the corresponding air handling unit.
Automatically by the auxiliary fire alarm relay when an alarm condition has been initiated either at the terminal unit or the corresponding air handling unit.

System Alarms - The EMCS shall generate an alarm as follows:
If the space temperature during the Occupied Mode is 5 °F above the cooling setpoint or 5 °F below the heating setpoint respectively.

2 Series Fan-Powered Terminal Unit with Modulating Electric Heat - Control Schematic and Sequence of Operations
NOT TO SCALE

FPT-1-01 THRU FPT-1-10



System Off - When the system is off:
The supply air fan shall be off.
The outside air damper shall be closed.
The control loops shall be disabled.

System Start-up - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on Time of Day Schedule.

System Operation - When system start-up has been initiated, the following sequences shall be implemented:
The fan coil unit shall be integrated with the EMCS to monitor fan status, schedule run times, and to adjust space temperature setpoints. The outside air motorized isolation damper shall open.

COOLING MODE: When the space temperature is above the Cooling Setpoint, the supply fan shall operate at the scheduled airflow value and the refrigerant compression shall be staged to maintain the space temperature within +/- 0.5 °F of the Cooling Setpoint.
HEATING MODE: When the space temperature is below the Heating Setpoint, the supply fan shall operate at the scheduled airflow value and the heat strip shall be activated to maintain the space temperature within +/- 0.5 °F of the Heating Setpoint.
FREEZE PROTECTION: When the outdoor air temperature drops below the freeze protection setpoint, the EMCS shall activate the electric strip heat. The electric heat strip shall return to normal operating conditions when the ambient temperature is above the freeze protection setpoint for 10 minutes (adj.).

System Setpoints - The setpoints for the system shall be set as follows:
The Cooling Setpoint shall be set initially at 75 °F (adjustable).
The Heating Setpoint shall be set initially at 70 °F (adjustable).
The design airflow rates shall be set at the values given in the Mechanical Drawings.
The outdoor air temperature freeze protection setpoint shall be 37°F (adj.).

System Alarms - The EMCS shall generate an alarm as follows:
If the space temperature is 5 °F (adj.) above the cooling setpoint.
If the space temperature is 5 °F (adj.) below the heating setpoint.
All alarms shall be inhibited when the supply fan is not operating except the space temperature alarms. The alarms, except the fan failure and the space temperature alarms, shall remain inhibited following startup of the unit for 2 minutes.

3 Fan Coil Unit - Control Schematic and Sequence of Operations
NOT TO SCALE

FCU-2/01

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 119001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
DBR

Sheet Title:
MECHANICAL CONTROL SEQUENCES

Drawing No.
M4.02

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 1:44:21 PM

FAN SCHEDULE

MARK	EF-1/01	EF-1/02	EF-1/03	EF-1/04	KEF-1/01
SERVES	PUBLIC RR	RR / KITCHENETTE	JANITOR	EMPLOYEE RR / LOCKERS	EMPLOYEE RR / LOCKERS
TYPE/DRIVE	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	IN-LINE/DIRECT	CENT/DIRECT
INTERLOCK	EMCS	EMCS	EMCS	EMCS	EMCS
CFM	675	200	130	670	2,000
EXT. S.P. (IN. W.G.)	0.450	0.500	0.250	0.500	0.500
HORSEPOWER	1/6	1/10	1/15	1/4	1 1/2
FAN SPEED (RPM)	1,560	1,513	1,609	1,064	1,005
SONES (MAX.)	9.1	7.4	4	5.0	10.1
VOLTS/PHASE/HERTZ	115/1/60	115 / 1 / 60	115/1/60	115/1/60	208 / 3 / 60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	CAPTIVEAIRE
MODEL NUMBER	G-095-VG	G-080-VG	G-060-VG	SQ-120-VG	DU180HFA
NOTES	1-4	1-4	1-4	1,3,4,5	1, 3, 4, 6

NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES.
2. PROVIDE WITH 12" PREFABRICATED ROOF CURB, WEATHERPROOF DISCONNECT SWITCH, AND ALUMINUM BIRD SCREEN.
3. PROVIDE WITH MOTORIZED DAMPER INTERLOCKED WITH FAN OPERATION SUCH THAT DAMPER SHALL OPEN WHEN FAN IS ENERGIZED AND SHUT WHEN FAN IS DE-ENERGIZED. DAMPER SHALL BE INSTALLED IN ACCESSIBLE LOCATION.
4. PROVIDE WITH DIRECT DRIVE, ELECTRONICALLY COMMUTATED FAN MOTOR (ECM).
5. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. PROVIDE WITH VIBRATION ISOLATORS.
6. PROVIDE WITH PRE-FABRICATED ROOF CURB, VENTED CURB EXTENSION, DRAIN CONNECTION, GREASE TRAP, HEAT BAFFLE, HINGING KIT, AND WEATHERPROOF COMBINATION STARTER DISCONNECT SWITCH.

LOUVER SCHEDULE

MARK	L-1/01	L-1/02	L-1/03	L-1/04	L-1/05	L-1/06
SERVES	EF-4	FCU-12	WOMEN RR	MENS RR	WOMENS RR	MENS RR
SIZE (WIDTH X HEIGHT)	24 X 18	24 X 24	12 X 12	12 X 12	12 X 12	12 X 12
CFM	670	1,170	200	205	65	200
MAX. FREE AREA VELOCITY (FPM)	508	585	400	410	130	400
MIN. FREE AREA (SQ. FT.)	1.32	2	0.5	0.5	0.5	0.5
MAX. P.D. (IN. W.G.)	0.04	0.07	0.03	0.03	0.01	0.03
MODEL	ELF375DX	800A1	800A1	800A1	800A1	800A1
MANUFACTURER	RUSKIN	AIR LOUVERS	AIR LOUVERS	AIR LOUVERS	AIR LOUVERS	AIR LOUVERS
NOTES	1-4	1,4	1,4	1,4	1,4	1,4

NOTES:
1. LOUVER PERFORMANCE SHALL BE RATED IN ACCORDANCE WITH AMCA PUBLICATION 511.
2. PROVIDE WITH BIRD SCREEN.
3. PROVIDE WITH BAROMETRIC RELIEF DAMPER SET TO 0.05 IN. W.G.
4. COORDINATE FINISH WITH ARCHITECT.

FAN POWERED TERMINAL UNIT SCHEDULE

MARK	PRIMARY AIR CFM		HEATING CFM	REHEAT	INLET SIZE	VOLTS/ PHASE/ HZ	ECM HP	MFR	MODEL NO.
	MAX.	MIN.		KW					
FPT-1-01	2,110	840	1480	11.5	14"Ø	208 / 3 / 60	3/4	TITUS	DTFS-E
FPT-1-02	355	140	250	2.0	8"Ø	208 / 3 / 60	1/3	TITUS	DTFS-B
FPT-1-03	400	160	280	2.5	8"Ø	208 / 3 / 60	1/3	TITUS	DTFS-B
FPT-1-04	475	190	335	2.5	8"Ø	208 / 3 / 60	1/3	TITUS	DTFS-B
FPT-1-05	1,395	560	980	7.5	12"Ø	208 / 3 / 60	1/2	TITUS	DTFS-D
FPT-1-06	590	240	415	3.5	8"Ø	208 / 3 / 60	1/3	TITUS	DTFS-B
FPT-1-07	130	50	95	1.0	6"Ø	208 / 3 / 60	1/3	TITUS	DTFS-B
FPT-1-08	2,025	810	1420	11.0	14"Ø	208 / 3 / 60	3/4	TITUS	DTFS-E
FPT-1-09	1,245	500	875	7.0	12"Ø	208 / 3 / 60	1/2	TITUS	DTFS-D
FPT-1-10	800	320	560	4.5	10"Ø	208 / 3 / 60	1/3	TITUS	DTFS-C

NOTES:
1. PROVIDE AEROCROSS MULTI-POINT CENTER AVERAGING VELOCITY SENSOR IN PRIMARY AIR INLET.
2. PROVIDE TERMINAL UNIT CASING WITH 1" INTERNALLY LINED FIBERGLASS FREE INSULATION.
3. PROVIDE TERMINAL UNIT WITH INTEGRAL DISCONNECT SWITCH.
4. PROVIDE ELECTRIC REHEAT COIL WITH 0-10V SCR MODULATING CAPACITY CONTROL.

DUCTLESS SPLIT SYSTEM SCHEDULE

OUTDOOR UNIT MARK	**ACCU-01**	**ACCU-02**
SERVES	FCU-01	FCU-02
GRAND TOTAL COOLING (BTUH)	26,400	26,400
GRAND TOTAL HEATING (BTUH)	28,600	28,600
AMBIENT TEMP. (°F)	105	105
STEPS OF CAPACITY	1	1
VOLTS/PHASE/HERTZ	208/1/60	208/1/60
MCA	22	22
MOCP	25	25
SEER2	21.0	21.0
REFRIGERANT TYPE	R-32	R-32
MANUFACTURER	DAIKIN	DAIKIN
MODEL NUMBER	RXF24AXVJU	RXF24AXVJU
UNIT WEIGHT (LBS)	101	101
INDOOR UNIT MARK	**FCU-01**	**FCU-02**
SERVES	MDF 135	ELEC 133
UNIT TYPE	WALL MTD	WALL MTD
COOLING CAPACITY (BTUH)	24,000	24,000
HEATING CAPACITY (BTUH)	19,200	19,200
VOLTS/PHASE/HERTZ	208/1/60	208/1/60
COOLING POWER CONSUMPTION (WATTS)	6,565	6,565
COOLING OUTPUT RANGE (BTUH)	22,400	22,400
HEATING POWER CONSUMPTION (WATTS)	6,917	6,917
HEATING OUTPUT RANGE (BTUH)	23,600	23,600
SUPPLY AIR CFM (DRY AIR)	716	716
MANUFACTURER	DAIKIN	DAIKIN
MODEL NUMBER	FTXF24AXVJU	FTXF24AXVJU
UNIT WEIGHT (LBS)	31	31
NOTES	1 - 7	1 - 7

NOTES:
1. INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNITS THRU FIELD SUPPLIED INTERCONNECTED WIRING.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. REFRIGERANT LINES TO BE SIZED BY MANUFACTURER.
4. PROVIDE UNIT WITH MANUFACTURER THERMOSTAT.
5. PROVIDE UNIT WITH CONDENSATE PUMP.
6. PROVIDE WITH BACNET INTERFACE TO INTERLOCK UNIT CONTROLS WITH EMCS FOR SCHEDULING, MONITORING, AND ALARMS.

PACKAGED DX ROOF TOP UNIT SCHEDULE

MARK	RTU-1	RTU-2
SERVES	COMMUNITY RM. / KITCHEN	M2VAV - ADMIN
DUCT CONFIGURATION	HORIZONTAL	HORIZONTAL
DESIGN SUPPLY AIR (CFM)	3,800	8,300
MINIMUM SUPPLY AIR (CFM)	1,645	3,320
DESIGN OUTDOOR AIR (CFM)	1,645	1,200
MINIMUM OUTDOOR AIR (CFM)	825	1,200
EFFICIENCY (IEER / EER)	19.1 / 11.3	22.5 / 11.2
EXT. S.P. (IN. W.G.)	1.00	1.25
FAN MOTOR HORSEPOWER	3.0	7.5
FAN TYPE	PLENUM	PLENUM
FAN DRIVE	DIRECT	DIRECT
COMPRESSOR TYPE / QUANTITY	1 / INVERTER	1 / INVERTER
COOLING DATA		
AMBIENT AIR (°F)	105.0	105.0
TOTAL COOLING CAPACITY (MBH)	159.4	241.1
TOTAL SENSIBLE CAPACITY (MBH)	133.8	219.2
EAT DB/WB (°F)	86.6 / 67.8	79 / 64.3
LAT DB/WB (°F)	55 / 54	55 / 54
HGRH DATA		
HGRH CAPACITY (MBH)	97.5	-
EAT DB/WB (°F)	51.7 / 61.6	
LAT DB @ RH%	82.6 @ 60%	
HEATING DATA (NAT. GAS)		
HEATING CAPACITY INPUT/OUTPUT (MBH)	200 / 160	-
DESIGN HEATING CAPACITY (MBH)	142.2	
EAT DB (°F)	50.4	
LAT DB (°F)	85.0	
ELECTRICAL DATA		
VOLTS/PHASE/HERTZ	208 / 3 / 60	208 / 3 / 60
MCA	88.3	118.6
MOCP	125.0	150.0
MANUFACTURER	DAIKIN	DAIKIN
MODEL NO.	DPSC15B	DPSC20B
OPERATING WEIGHT (LBS)	1,942	3,557
NOTES	1 - 12	1 - 6, 8-12

NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO COIL(S), FILTERS, HOUSING, NOR ACCESSORIES.
2. PROVIDE UNIT WITH OUTDOOR AIR INTAKE HOOD WITH MODULATING MOTORIZED DAMPER.
3. PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION.
4. PROVIDE FLOAT SWITCH IN PRIMARY DRAIN PAN TO DE-ENERGIZE THE UNIT WHEN PRIMARY DRAIN LINE BECOMES RESTRICTED.
5. PROVIDE UNITS WITH MINIMUM MERV 13 FILTERS.
6. PROVIDE UNIT CONTROLLER BY MANUFACTURER. PROVIDE CONTROLLER WITH BACNET INTERFACE CARD FOR INTEGRATION WITH EMCS.
7. PROVIDE UNIT WITH HOT GAS REHEAT FOR HUMIDITY CONTROL.
8. PROVIDE UNIT WITH CONDENSER HAIL GUARD AND 14" PREFABRICATED ROOF CURB.
9. PROVIDE UNIT WITH COMPARATIVE ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF.
10. PROVIDE UNIT WITH INTEGRAL DISCONNECT SWITCH.
11. PROVIDE UNIT WITH DUCT MOUNTED SMOKE DETECTORS IN SUPPLY DUCTWORK FOR ALL UNITS DISCHARGING IN EXCESS OF 2,000 CFM.
12. PROVIDE UNIT WITH A MINIMUM SHORT CIRCUIT CURRENT RATING (SCCR) OF 65,000 AIC.

AIR DEVICE SCHEDULE

MARK	MFR. & MODEL	TYPE	REMARKS
A	TITUS TMS-AA	LOUVERED FACE SUPPLY AIR DIFFUSER	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN CEILING OR SURFACE MOUNT.
B	TITUS PAR-AA	PERFORATED FACE RETURN AIR GRILLE	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN OR GYP-BOARD CEILING. PROVIDE 22"x22" NECK UNLESS OTHERWISE NOTED. PROVIDE O.B.D. FOR DUCTED EXHAUST.
C	TITUS 300FL	SIDEWALL SUPPLY AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D.
D	TITUS 350FL	SIDEWALL RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, 35° DEFLECTION WITH BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D. FOR DUCTED EXHAUST.
F	TITUS S300FL	SIDEWALL SUPPLY AIR GRILLE	ALUMINUM DIRECT SPIRAL DUCT MOUNTED DOUBLE DEFLECTION SUPPLY GRILLE WITH RADIUS END CAPS, 3/4" BLADE SPACING WITH FRONT BLADES PARALLEL TO LONG DIMENSION.
G	TITUS TDC-AA	LOUVERED FACE SUPPLY AIR DIFFUSER	12"x12" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT.

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH.
2. REFER TO MECHANICAL FLOOR PLAN FOR NECK SIZES.

ELECTRIC UNIT HEATER SCHEDULE

MARK	EUH-1
SERVES	FIRE RISER ROOM
CFM	350
CAPACITY (KW)	3
FAN MOTOR HP	1/100
VOLTS/PHASE/HERTZ	208/1/60
MCA (AMPS)	14.5
MANUFACTURER	QMARK
MODEL NUMBER	MUH0381
NOTES	1-3

NOTES:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
2. WALL MOUNT UNIT HEATER 8' A.F.F.
3. PROVIDE THERMOSTAT TO CONTROL HEATER. MOUNT AT SAME ELEVATION AS LIGHT SWITCHES. THERMOSTAT SHALL ENERGIZE HEATER WHEN TEMPERATURE REACHES 50°F (ADJ.).

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB | TD | EM | DW | ZB

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 119001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
MECHANICAL SCHEDULES

Drawing No.
M5.01

5/4/2026 1:44:27 PM

FAN SCHEDULE

MARK	EF-2/01	EF-2/02	EF-2/03	EF-2/04	EF-2/05	EF-2/06	EF-2/07	EF-2/08	EF-2/09	EF-2/10
SERVES	UNISEX 211	UNISEX 210	MECH SHOP 213				LUBRICATE STOR 201	VEHICLE STORAGE	VEHICLE STORAGE	VEHICLE STORAGE
TYPE/DRIVE	CEILING / DIRECT	CEILING / DIRECT	CENT / DIRECT	CENT / DIRECT	CENT / DIRECT	CENT / DIRECT	INLINE / DIRECT	CENT / DIRECT	CENT / DIRECT	VENT SET / BELT
INTERLOCK	LIGHTSWITCH	LIGHTSWITCH	EMCS	EMCS	EMCS	EMCS	THERMOSTAT	EMCS	EMCS	WALL SWITCH
CFM	75	75	3,000	3,000	3,000	840	575	5,140	4,220	4,000
EXT. S.P. (IN. W.G.)	0.25	0.25	0.50	0.50	0.50	0.50	0.25	0.50	0.50	3.00
HORSEPOWER	16 W	16 W	1	1	1	1/4	1/4	2	2	5
FAN SPEED (RPM)	900	900	935	935	935	1,066	1,800	1,065	1,576	-
SONES (MAX.)	0.4	0.4	11	11	11	7.1	5.9	17.6	24	-
VOLTS/PHASE/HERTZ	115/1/60	115/1/60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	115/1/60	208 / 1 / 60	208 / 1 / 60	208 / 3 / 60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	HARVEY
MODEL NUMBER	SP-A90	SP-A90	G-180-VG	G-180-VG	G-180-VG	G-120-VG	SE1-12-432-VG	G-200-VG	G-160-VG	BD-14
NOTES	1, 3, 4	1, 3, 4	1 - 4	1 - 4	1 - 4	1 - 4	1, 3, 4 - 5, 8 - 9	1 - 4	1 - 4	1, 3, 6, 7

NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES.
2. PROVIDE WITH 12" PREFABRICATED ROOF CURB, WEATHERPROOF DISCONNECT SWITCH, AND ALUMINUM BIRD SCREEN.
3. PROVIDE WITH MOTORIZED DAMPER INTERLOCKED WITH FAN OPERATION SUCH THAT DAMPER SHALL OPEN WHEN FAN IS ENERGIZED AND SHUT WHEN FAN IS DE-ENERGIZED. DAMPER SHALL BE INSTALLED IN ACCESSIBLE LOCATION.
4. PROVIDE WITH DIRECT DRIVE, ELECTRONICALLY COMMUTATED FAN MOTOR (ECM).
5. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. PROVIDE WITH VIBRATION ISOLATORS.
6. FAN SHALL BE BACKWARD INCLINED CENTRIFUGAL TYPE FAN WITH VERTICAL (UP) DISCHARGE CONFIGURATION. PROVIDE EQUIPMENT WITH BASE SUPPORTS, NEOPRENE VIBRATION ISOLATIORS, DRAIN AT BOTTOM OF FAN HOUSING AND MOTOR WEATHERHOOD.
7. THE FAN TO BE PROVIDED BY HARVEY INDUSTRIES AS PART OF HARVEY OVERHEAD EXHAUST RAIL AND TELESCOPIC SYSTEM.
8. FAN SHALL BE THERMOSTATICALLY CONTROLLED. FAN SHALL ENERGIZE WHEN SPACE TEMPERATURE REACHES 80°F (ADJ.) OR ABOVE.
9. PROVIDE FAN WITH SHORT WALL HOUSING.

DX FAN COIL UNIT SCHEDULE

MARK	FCU-2/01
SERVES	MECHANIC SHOP - OFFICE
SUPPLY AIR (CFM)	885
OUTSIDE AIR (CFM)	355
EXT. S.P. (IN. W.G.)	0.75
FAN MOTOR HORSEPOWER	3/4
FAN MOTOR CONTROL (VFD, STARTER, OR SINGLE POINT)	EC
FAN RPM	-
COOLING EAT DB/WB (°F)	78.5 / 64.2
COOLING LAT DB/WB (°F)	55 / 54
TOTAL COOLING CAPACITY (MBH)	35.9
SENSIBLE COOLING CAPACITY (MBH)	30.3
HEATING EAT DB (°F)	51.8
HEATING CAPACITY (KW)	9.5
NO. OF HEATING STAGES	1
MCA / MOCP	6.5 / 50
VOLTS/PHASE/HERTZ	208 / 1 / 60
MANUFACTURER	DAIKIN
MODEL NO.	DMVT48CP1300
NOTES	1 - 3

NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO COIL(S), FILTERS, HOUSING, NOR...
2. UNIT SHALL BE SUSPENDED FROM STRUCTURE ABOVE. PROVIDE WITH VIBRATION ISOLATION PER...
3. PROVIDE SECONDARY DRAIN PAN WITH FLOAT SWITCH TO DE-ENERGIZE UNIT WHEN PRIMARY DRAIN...

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	ACCU-2/01
SERVES	FCU-2/01
TOTAL COOLING CAPACITY (MBH)	48.0
AMBIENT TEMP. (°F)	105
STEPS OF CAPACITY	1
SEER2	13.4 / 11
IEER	-
VOLTS/PHASE/HERTZ	208 / 3 / 60
MCA	16.6
MOCP	25.0
MANUFACTURER	DAIKIN
MODEL NUMBER	DC3SEA4830
OPERATING WEIGHT (LBS.)	197
NOTES	1 - 4

NOTES:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
2. REFRIGERANT LINES TO BE SIZED BY MANUFACTURER.
3. PROVIDE WITH CONDENSER COIL HAIL GUARD.
4. PROVIDE WITH LOW AMBIENT HEAD PRESSURE CONTROL.

ELECTRIC UNIT HEATER SCHEDULE

MARK	EUH-2/01
SERVES	FIRE RISER ROOM
CFM	350
CAPACITY (KW)	3
FAN MOTOR HP	1/100
VOLTS/PHASE/HERTZ	208/1/60
MCA (AMPS)	14.5
MANUFACTURER	QMARK
MODEL NUMBER	MUH0381
NOTES	1-3

NOTES:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
2. WALL MOUNT UNIT HEATER 8' A.F.F.
3. PROVIDE THERMOSTAT TO CONTROL HEATER. MOUNT AT SAME ELEVATION AS LIGHT SWITCHES. THERMOSTAT SHALL ENERGIZE HEATER WHEN TEMPERATURE REACHES 50°F (ADJ.).

LOUVER SCHEDULE

MARK	L-2/01	L-2/02	L-2/03	L-2/04	L-2/05	L-2/06	L-3/01	L-3/02	L-3/03	L-3/04
SERVES	MECHANIC SHOP 213						VEHICLE STORAGE BUILDING			
SIZE (WIDTH X HEIGHT)	22 x 24	22 x 24	22 x 24	22 x 24	20 x 20	20 x 18	36 X 30	36 X 30	36 X 30	36 X 30
CFM	1,035	1,035	1,035	1,035	575	575	2,570	2,110	2,570	2110
MAX. FREE AREA VELOCITY (FPM)	500	500	500	500	500	600	500	500	500	500
MIN. FREE AREA (SQ. FT.)	2.1	2.1	2.1	2.1	1.1	1.1	5.6	4.5	5.6	4.5
MAX. P.D. (IN. W.G.)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
MODEL	EAD-635	EAD-635	EAD-635	EAD-635	EAD-635	EAD-635	EAD-635	EAD-635	EAD-635	EAD-635
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
NOTES	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4

NOTES:
1. LOUVER PERFORMANCE SHALL BE RATED IN ACCORDANCE WITH AMCA PUBLICATION 511.
2. PROVIDE WITH BIRD SCREEN.
3. PROVIDE WITH BAROMETRIC RELIEF DAMPER SET TO 0.05 IN. W.G.
4. COORDINATE FINISH WITH ARCHITECT.

AIR DEVICE SCHEDULE

MARK	MFR. & MODEL	TYPE	REMARKS
A	TITUS TMS-AA	LOUVERED FACE SUPPLY AIR DIFFUSER	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN CEILING OR SURFACE MOUNT.
B	TITUS PAR-AA	PERFORATED FACE RETURN AIR GRILLE	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN OR GYP-BOARD CEILING. PROVIDE 22"x22" NECK UNLESS OTHERWISE NOTED. PROVIDE O.B.D. FOR DUCTED EXHAUST.
C	TITUS 300FL	SIDEWALL SUPPLY AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING. DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D.
D	TITUS 350FL	SIDEWALL RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING. 35° DEFLECTION WITH BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D. FOR DUCTED EXHAUST.
F	TITUS S300FL	SIDEWALL SUPPLY AIR GRILLE	ALUMINUM DIRECT SPIRAL DUCT MOUNTED DOUBLE DEFLECTION SUPPLY GRILLE WITH RADIUS END CAPS. 3/4" BLADE SPACING WITH FRONT BLADES PARALLEL TO LONG DIMENSION.
G	TITUS TDC-AA	LOUVERED FACE SUPPLY AIR DIFFUSER	12"x12" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT.

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH.
2. REFER TO MECHANICAL FLOOR PLAN FOR NECK SIZES.

HVLS FAN SCHEDULE

MARK	HVLS-2/01	HVLS-2/01	HVLS-2/01
SERVES	MECHANIC SHOP	MECHANIC SHOP	MECHANIC SHOP
TYPE/DRIVE	14 / DIRECT	14 / DIRECT	14 / DIRECT
FAN SIZE	14 FT	14 FT	14 FT
HORSEPOWER	1.5	1.5	1.5
RPM (MAX.)	96	96	96
SONES (MAX.)	-	-	-
VOLTS/PHASE/HERTZ	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60
WEIGHT (LBS.)	265	265	265
MANUFACTURER	BAF	BAF	BAF
MODEL NUMBER	POWERFOIL 5	POWERFOIL 5	POWERFOIL 5
COLOR/FINISH	REFER TO ARCH	REFER TO ARCH	REFER TO ARCH
NOTES	1 - 5	1 - 5	1 - 5

NOTES:
1. PROVIDE FAN WITH STANDARD MOUNTING HARDWARE. MOUNT FAN ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
2. PROVIDE FAN WITH DIRECT DRIVE MOTOR CAPABLE OF 0-100% SPEED MODULATION.
3. PROVIDE FAN WITH WIRED WALL MOUNT CONTROLLER.
4. COLOR SHALL BE APPROVED BY ARCHITECT PRIOR TO ORDERING.
5. INTERLOCK FAN TO SHUT DOWN IMMEDIATELY UPON RECEIVING A WATERFLOW SIGNAL FROM THE ALARM SYSTEM PER NFPA 72

GRAVITY HOOD SCHEDULE

MARK	IAH-2/01	EAH-2/01
SERVES	VENTILATION AIR - FCU-2/01	MECH SHOP RR EXHAUST
DESIGN AIR FLOW RATE (CFM)	335	150
MAX. P.D. (IN. W.G.)	0.06	0.06
TYPE	INTAKE	EXHAUST
THROAT WIDTH (IN.)	10.00	8.00
HOOD LENGTH (IN.)	20.50	20.50
MODEL	GRSI	GRSR
MANUFACTURER	GREENHECK	GREENHECK
UNIT WEIGHT (LBS.)	24	23
NOTES	1 - 2	1 - 2

NOTES:
1. PROVIDE WITH PREFABRICATED 12" ROOF CURB AND INTEGRAL ALUMINUM BIRD SCREEN.
2. PROVIDE WITH MOTORIZED DAMPER INTERLOCKED WITH ASSOCIATED MECHANICAL EQUIPMENT SUCH THAT DAMPER IS OPEN WHEN UNIT IS ENERGIZED AND SHUT WHEN UNIT IS DE-ENERGIZED. DAMPER TO BE INSTALLED IN ACCESSIBLE LOCATION.

GAS RADIANT HEATER SCHEDULE

MARK	RH-2/01	RH-2/02	RH-2/03	RH-2/04	RH-2/05	RH-2/06	RH-2/07	RH-2/08	RH-3/01	RH-3/02	RH-3/03
SERVES	MECHANIC SHOP 213	MECHANIC SHOP 213	MECHANIC SHOP 213	MECHANIC SHOP 213	MECHANIC SHOP 213	MECHANIC SHOP 213	MECHANIC SHOP 213	MECHANIC SHOP 213	DETERGENT ROOM 316	PRESSURE WASHER 315	MECHANIC SHOP 213
INPUT (MBH)	60	60	60	60	60	60	60	60	30	30	30
TYPE OF FUEL	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS
GAS INLET (INCHES)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
VOLTS / PHASE / HERTZ	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
MANUFACTURER	REZNOR	REZNOR	REZNOR	REZNOR	REZNOR	REZNOR	REZNOR	REZNOR	REZNOR	REZNOR	REZNOR
MODEL	RIHN60	RIHN60	RIHN60	RIHN60	RIHN60	RIHN60	RIHN60	RIHN60	RIHN30	RIHN30	RIHN30
NOTES	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3

NOTES:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
2. PROVIDE WITH HANGER KIT, OUTSIDE COMBUSTION AIR INLET KIT, AND VENT CAP.
3. PROVIDE WITH UNIT-MOUNTED THERMOSTAT AND MANUAL SHUT-OFF SWITCH. HEATERS SHALL BE ENERGIZED WHEN TEMPERATURE DROPS BELOW 45°F (ADJ.).

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

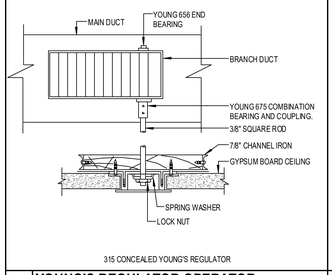
NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 118061

Revisions:

REV.	DATE	TITLE

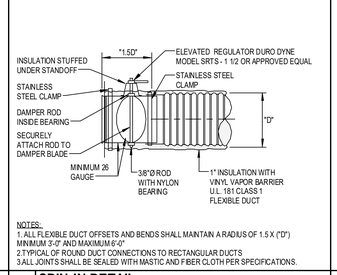
Date: 95% CONSTRUCTION DOCS 05-04-2026
Project No. 3015
Drawn By: DBR
Checked By: DBR
Sheet Title: MECHANICAL SCHEDULES
Drawing No. **M5.02**

5/4/2026 1:44:34 PM



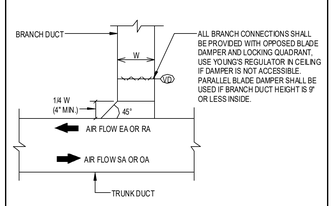
315 CONCEALED YOUNG'S REGULATOR

6 YOUNG'S REGULATOR OPERATOR
NOT TO SCALE



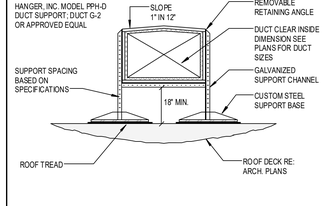
NOTES:
1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5 X ("D") MINIMUM 3'-0" AND MAXIMUM 6'-0"
2 TYPICAL OF ROUND DUCT CONNECTIONS TO RECTANGULAR DUCTS
3 ALL JOINTS SHALL BE SEALED WITH MASTIC AND FIBER CLOTH PER SPECIFICATIONS.

5 SPIN-IN DETAIL
NOT TO SCALE



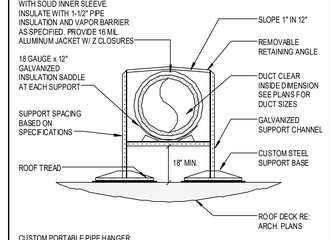
NOTES:
THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

4 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE

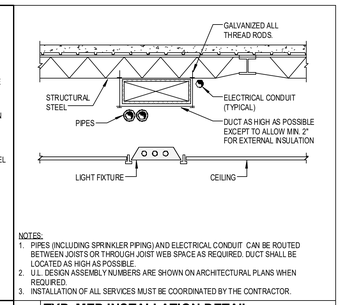


NOTES:
1. ANGLE STEEL FRAME TO BE WELDED AT ALL CORNERS AND BASE PLATE.
2. PROVIDE 12" WIDE 18 GAUGE GALVANIZED STEEL INSULATION SADDLE, FULL WIDTH AND HEIGHT OF DUCT.

3 EXPOSED RECT. DUCT ON ROOF
NOT TO SCALE

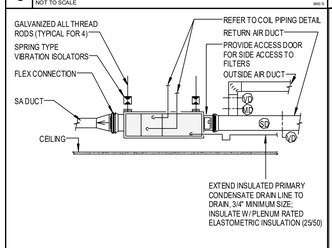


2 DUCT SUPPORT ON ROOF
NOT TO SCALE



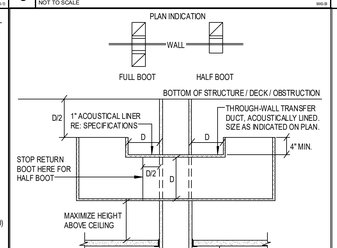
NOTES:
1. PIPES (INCLUDING SPRINKLER PIPING) AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

1 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE



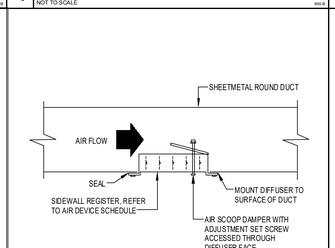
NOTES:
1. PROVIDE MISC. GALV. SUPPORT ANGLE OR CHANNEL AS REQUIRED TO BRIDGE STRUCTURE.
2. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

12 FAN COIL UNIT MOUNTING
NOT TO SCALE

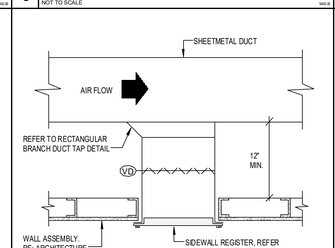


NOTE:
WHERE FIRE, SMOKE, OR FIRE/SMOKE DAMPERS ARE INSTALLED, PROVIDE ACCESS DOOR.

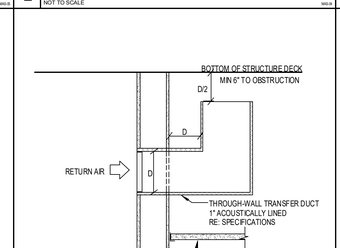
11 RETURN AIR BOOT THROUGH WALL
NOT TO SCALE



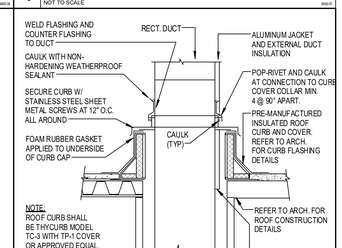
10 ROUND DUCT MOUNTED SUPPLY REGISTER
NOT TO SCALE



9 SIDEWALL SUPPLY REGISTER DETAIL
NOT TO SCALE

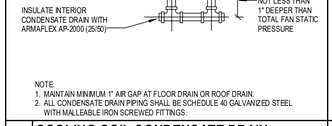


8 SIDEWALL REGISTER RETURN AIR BOOT
NOT TO SCALE



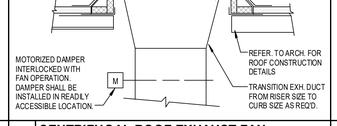
NOTE:
ROOF CURB SHALL BE THYCURB MODEL TC-3 WITH TP-1 COVER OR APPROVED EQUAL.

7 RECT. DUCT ROOF CURB PENETRATION
NOT TO SCALE

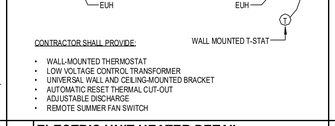


NOTE:
1. MAINTAIN MINIMUM 1" AIR GAP AT FLOOR DRAIN OR ROOF DRAIN.
2. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

18 COOLING COIL CONDENSATE DRAIN
NOT TO SCALE

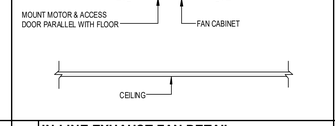


17 CENTRIFUGAL ROOF EXHAUST FAN
NOT TO SCALE

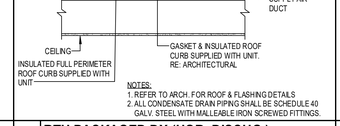


CONTRACTOR SHALL PROVIDE:
- WALL-MOUNTED THERMOSTAT
- LOW VOLTAGE CONTROL TRANSFORMER
- UNIVERSAL WALL AND CEILING-MOUNTED BRACKET
- AUTOMATIC RESET THERMAL CUT-OUT
- ADJUSTABLE DISCHARGE
- REMOTE SUMMER FAN SWITCH

16 ELECTRIC UNIT HEATER DETAIL
NOT TO SCALE

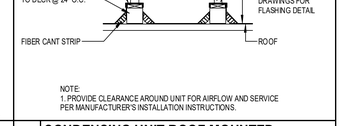


15 IN-LINE EXHAUST FAN DETAIL
NOT TO SCALE



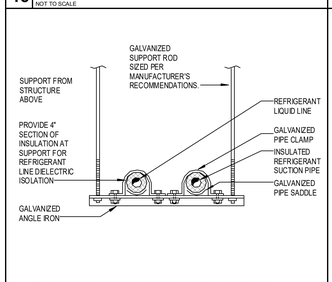
NOTES:
1. REFER TO ARCH. FOR ROOF & FLASHING DETAILS
2. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALV. STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

14 RTU PACKAGED DX (HOR. DISCHG.)
NOT TO SCALE



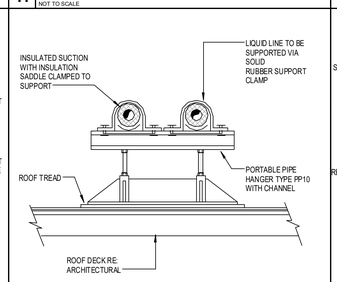
NOTE:
1. PROVIDE CLEARANCE AROUND UNIT FOR AIRFLOW AND SERVICE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

13 CONDENSING UNIT ROOF MOUNTED
NOT TO SCALE

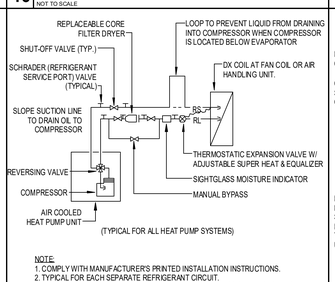


NOTE: PROVIDE SUPPORTS AT 3'-0" ON CENTER MAX. AND WITHIN 1'-0" OF ALL CHANGES IN PIPE DIRECTION.

24 REFRIGERANT PIPE HANGER
NOT TO SCALE



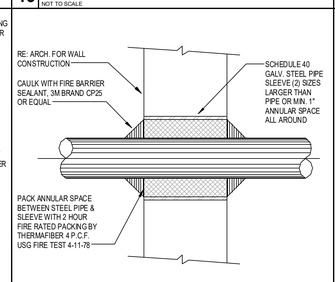
23 ROOF MTD. REFR. PIPE SUPPORT
NOT TO SCALE



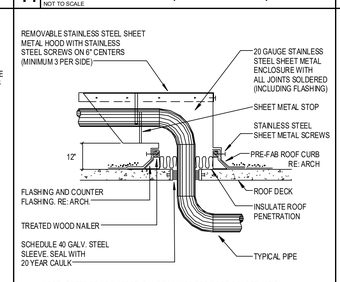
(TYPICAL FOR ALL HEAT PUMP SYSTEMS)

NOTE:
1. COMPLY WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
2. TYPICAL FOR EACH SEPARATE REFRIGERANT CIRCUIT.
3. PROVIDE REPLACEABLE CORE FILTER DRYER WITH BYPASS ON ALL SYSTEMS.
4. USE "ACR" HARD DRAWN COPPER REFRIGERANT PIPE.

22 HEAT PUMP PIPING DETAIL
NOT TO SCALE

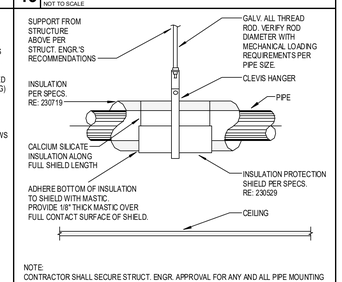


21 FIRE WALL PIPE PENETRATION
NOT TO SCALE



NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ROOF CONSTRUCTION AND FLASHING DETAILS.

20 PIPING ROOF PENETRATION
NOT TO SCALE



NOTE:
CONTRACTOR SHALL SECURE STRUCT. ENGR. APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS TO CONCRETE OR STEEL STRUCTURE. CONTRACTOR SHALL CONFORM TO ALL MAXIMUM SPAN DISTANCES PER SPECIFICATIONS FOR HANGER SPACING. RE: 230529

19 PIPE HANGER DETAIL (1-PIPE)
NOT TO SCALE

28 SERIES FAN POWERED TERMINAL UNIT
NOT TO SCALE

27 DRYER EXHAUST THROUGH ROOF
NOT TO SCALE

26 CENTRIFUGAL UPBLAST EXHAUST FAN
NOT TO SCALE

NOTE:
1. PROVIDE PORTABLE PIPE HANGER MODEL SS6-R OR APPROVED EQUAL.
2. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'-0" ON CENTER.
3. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION REQUIREMENTS.

25 DRAIN LINE SUPPORT ON ROOF
NOT TO SCALE

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 118061

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
MECHANICAL DETAILS

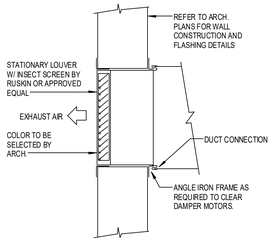
Drawing No.
M6.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

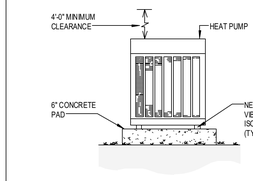
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 1:44:42 PM

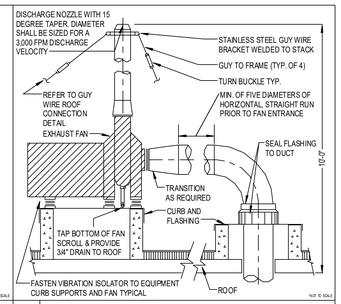


08 EXHAUST LOUVER MOUNTING
NOT TO SCALE



NOTE:
PROVIDE CLEARANCE AROUND UNIT FOR AIR FLOW AND SERVICE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

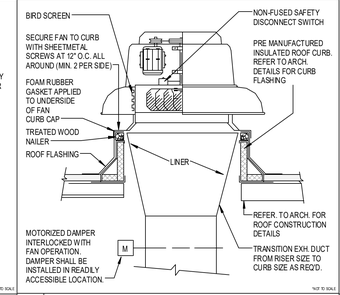
05 HEAT PUMP MOUNTING DETAIL
NOT TO SCALE



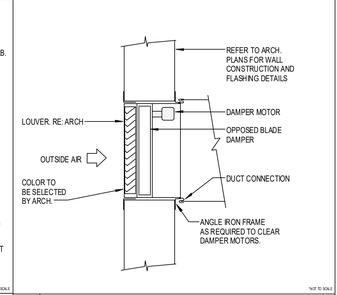
01 M15019 - UTILITY FAN
NOT TO SCALE

NOTE:
INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

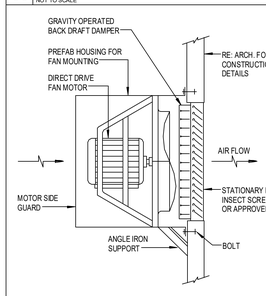
09 GAS INFRA-RED HEATER
NOT TO SCALE



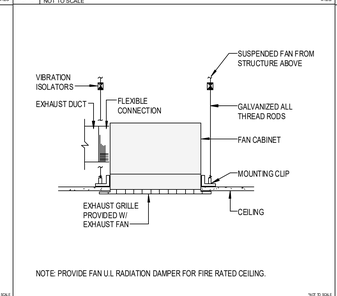
06 CENTRIFUGAL ROOF EXHAUST FAN
NOT TO SCALE



02 INTAKE LOUVER MOUNTING
NOT TO SCALE

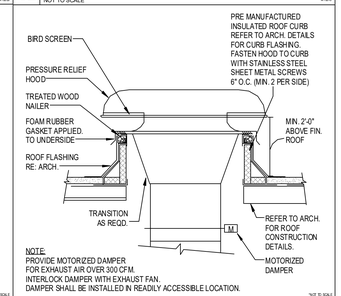


10 PROPELLER EXHAUST FAN DIRECT DRIVE WITH LOUVER

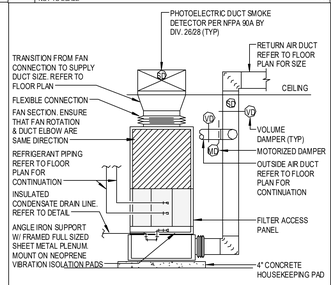


NOTE: PROVIDE FAN U.L RADIATION DAMPER FOR FIRE RATED CEILING.

07 CEILING MOUNTED EXHAUST FAN
NOT TO SCALE



03 EXHAUST AIR HOOD
NOT TO SCALE



04 VERTICAL DX FAN COIL UNIT

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
MECHANICAL DETAILS

Drawing No.
M6.02

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

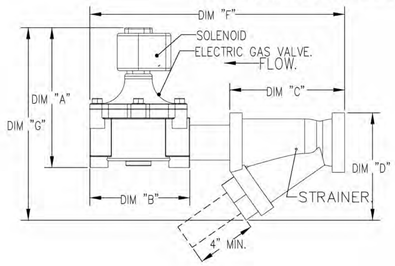
5/4/2026 1:44:48 PM

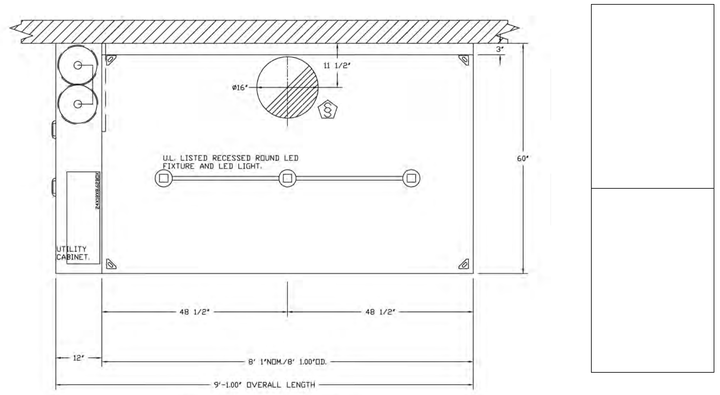
GAS VALVES AND STRAINERS															
	GAS VALVE SIZING						GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS#1 →	ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/VERTICAL	8214280	4417K68	(SC)EGVA2

ELECTRIC GAS VALVES ONLY-SOLENOID ORIENTATION:
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL.
2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.
24VDC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

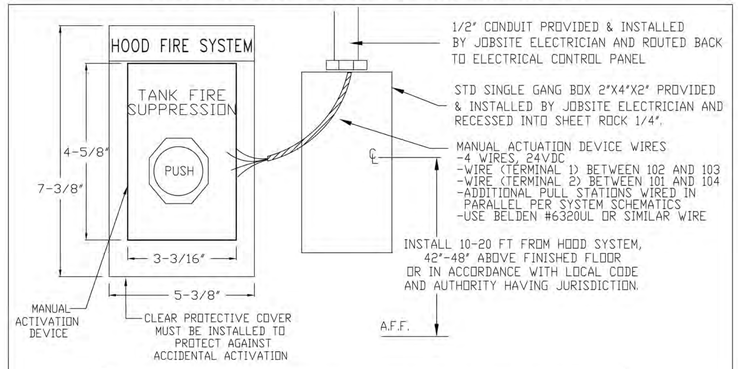
CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.



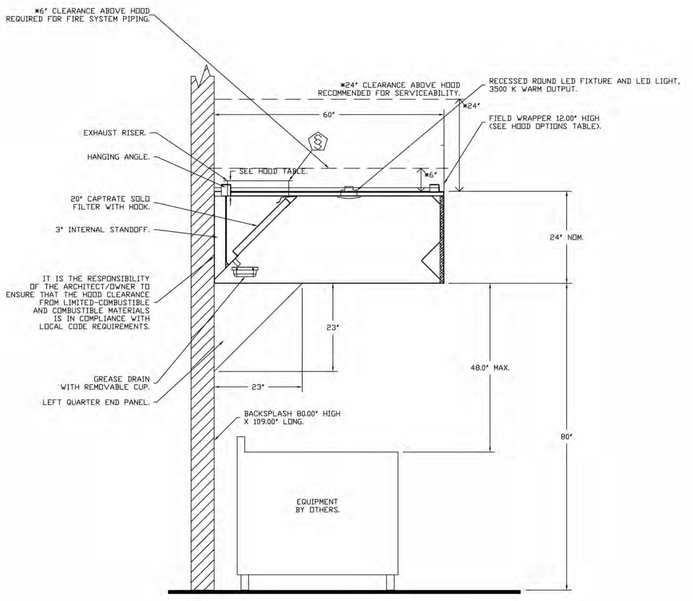


PLAN VIEW – HOOD #1 (KH-1)
8' 1.00" LONG 6024ND-2

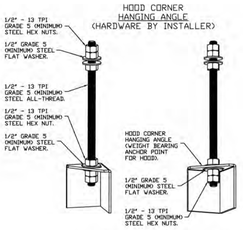
TANK MANUAL ACTIVATION DEVICE DETAIL



NOTE:
MANUAL ACTIVATION DEVICE (MAD) TO BE LOCATED IN THE PATH OF EGRESS, FREE FROM OBSTRUCTION. COORDINATE LOCATION WITH FIRE SYSTEM CONTRACTOR.

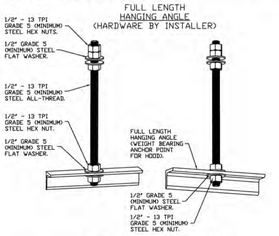


SECTION VIEW – MODEL 6024ND-2
HOOD – #1 (KH-1)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

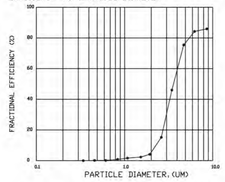
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

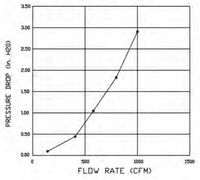
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

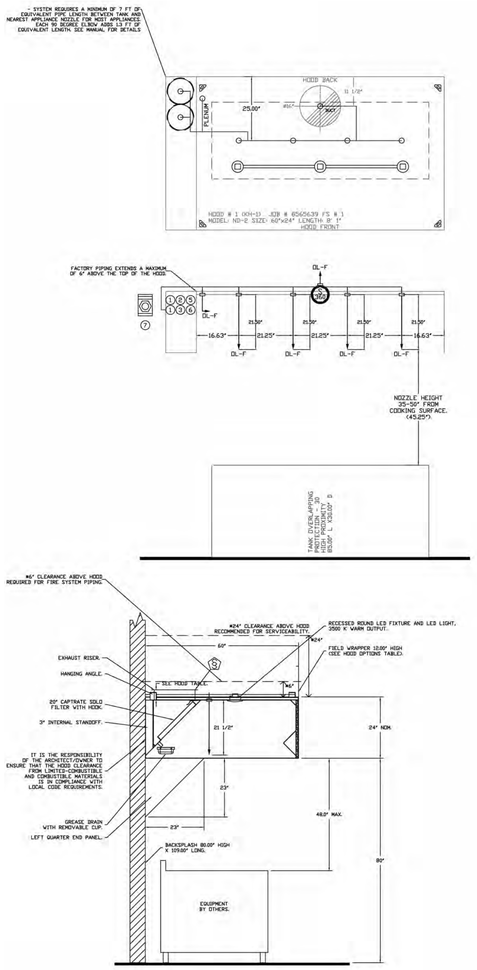
Drawn By:
DBR

Checked By:
DBR

Sheet Title:
MECHANICAL DETAILS

Drawing No.
M6.03

5/4/2026 1:44:58 PM



SECTION VIEW - MODEL 6024ND-2
HOOD - #1

NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2, 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 8565639.
JOB NAME: DALLAS COUNTY ROAD & BRIDGE.

SYSTEM SIZE: TANK-SP-2. DESIGN FP: 28. MAXIMUM FP: 40.
HOOD # 1 8' 1.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

FIRE SYSTEM INFORMATION – JOB#8565639

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	28	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER – PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 – 0 – TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		0 – 0 – 32-00002 QUIK SEAL – 1/2" (UL).	1	0
		0 – 0 – 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 – 0 – 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 – 0 – 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 – 0 – 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0 – 0 – 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) – SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300001-001 TANK – PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 – 0 – 87-300030-001 PRIMARY ACTUATOR KIT (PAK) – ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	0
		0 – 0 – 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 – 0 – 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	6	0
		0 – 0 – 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	5	0
		0 – 0 – 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 – 0 – A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 – 0 – A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 – 0 – BI145 3/8" BLACK IRON 90 ELL.	2	0
		0 – 0 – DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – TANK STRAP TANK STRAP – USED FOR TANK FIRE SUPPRESSION.	6	0
		0 – 0 – TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 – 16 – 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	6	0
		16 – 16 – DL-F NOZZLE – TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	6	0
		26 – 26 – QSA-3/8 QUIK SEAL – 3/8" (UL).	6	0
		34 – 34 – A0034331 RED COLOR – 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1	0

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr andrade architects
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
MECHANICAL DETAILS

Drawing No.
M6.04

5/4/2026 1:45:08 PM

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
AC	ABOVE CEILING
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AV	ACID VENT
AVG	AVERAGE
AW	ACID WASTE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BF	BELOW FLOOR
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CP	CIRCULATING PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CONT	CONTINOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CRAC	COMPUTER ROOM A/C UNIT
CTR	CENTER
CU	COPPER
CW	COLD WATER

D

D	DEPTH, DRAIN, DRYER
DESIG	DESIGNATION
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DS	DOWNSPOUT, DOUBLE SUCTON
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP

E

EA	EACH
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPTMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EXT	EXTERNAL
EXTG	EXISTING

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL STATON
FD	FLOOR DRAIN, FIRE DAMPER
FDSC	FIRE DEPARTMENT SIAMESE CONNECTION
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FLEX	FLEXIBLE
FL	FLOW LINES
FLR	FLOOR
FP	FIRE PUMP
FRZR	FREEZER
FS	FLOW SWITCH, FIRE SPRINKLER
FS	FLOOR SINK
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE

H

HB	HOSE BIBB
HD	HEAD, HUB DRAIN
HORIZ	HORIZONTAL
HP	HORSEPOWER
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
IW	INDIRECT WASTE

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LT	LINT
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWCO	LOW WATER CUT OFF

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTUS
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MS	MOP SINK
MTD	MOUNTED
MU	MAKE-UP

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OPEN STEM AND YOLK
O	MEDICAL OXYGEN

P

P	PUMP, PLUMBING EQUIPTMENT
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP, PLANTER DRAIN
PH	PHASE, POST HYDRANT
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
PNTH	PENTHOUSE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLUMBING TRIM
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE,REFER
RECIRC	RECIRCULATE
RED	REDUCER
REFR	REFRIGERATOR
REINF	REINGFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE ROOF TOP UNIT
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SCHED	SCHEDULED
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSD	SUBSURFACE DRAIN
SSFU	SANITARY SEWER FIXTURE UNITS
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER
SOV	SHUT-OFF VALVE

T

TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TH BLK	THRUST BLOCK
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TYP	TYPICAL

U

U	URINAL
UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UIF	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VCP	VITRIFIED CLAY PIPE
VEL	VELOCITY
VERT	VERTICAL
VB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWF	WELDED WIRE FABRIC
WT	WATERTIGHT, WEIGHT

Y

Y	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

- SANITARY DRAIN BELOW FLOOR
- EXISTING SOIL OR WASTE PIPING B.G.
- SANITARY DRAIN ABOVE FLOOR
- EXISTING SOIL OR WASTE PIPING A.G.
- PIPE DEMO
- SANITARY VENT
- EXISTING VENT PIPING
- GW — GREASE WASTE(ABOVE CEILING)
- GW — GREASE WASTE(BELOW FLOOR)
- SD — STORM DRAIN(ABOVE CEILING)
- SD — STORM DRAIN(BELOW FLOOR)
- OD — OVERFLOW DRAIN(ABOVE CEILING)
- OD — OVERFLOW DRAIN(BELOW FLOOR)
- AW — ACID WASTE(ABOVE CEILING)
- AW — EXISTING ACID WASTE PIPING A.G.
- AW — ACID WASTE(BELOW FLOOR)
- AW — EXISTING ACID WASTE PIPING B.G.
- AV — ACID VENT(ABOVE CEILING OR BELOW FLOOR)
- AV — EXISTING ACID VENT PIPING AV
- CW — COLD WATER CW
- EXISTING DOMESTIC COLD WATER
- HW — HOT WATER HW
- EXISTING DOMESTIC HOT WATER
- HOT WATER RECIRCULATION
- EXISTING DOMESTIC HOT WATER RETURN HWR
- G — NATURAL GAS
- T — TEMPERED WATER
- CA — COMPRESSED AIR
- A — MEDICAL AIR
- O — MEDICAL OXYGEN
- V — MEDICAL VACUUM
- F — FIRE STANDPIPE, FIRE LINE
- FS — WET AUTOMATIC FIRE SPRINKLER
- TP — TRAP PRIMER
- D — DRAIN LINE
- SW — SOFT WATER
- LT — LINT WASTE

PIPING FITTINGS

- CAP ON END OF PIPE
- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- FLANGE
- PIPE ANCHOR
- EXPANSION JOINT
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE, HVAC BALANCING/STOP VALVE
- GLOBE VALVE
- BALL VALVE
- BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
- OS&Y VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- TWO-WAY MODULATING CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS REGULATOR
- GAS COCK
- SPRINKLER FLOOR CONTROL STATION
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- LINE CLEANOUT/ WALL CLEANOUT
- FLOOR CLEANOUT
- GRADE CLEANOUT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- WATER METER
- FLEXIBLE CONNECTION
- PRESSURE AND TEMPERATURE TAP
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- WATER SUB-METER

MISCELLANEOUS

- DRAIN(TYPE AND SIZE AS NOTED ON PLANS)
- ROOF DRAIN OR OVERFLOW DRAIN
- ROOF DRAIN OR OVERFLOW DRAIN(FROM ABOVE)
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- EXISTING PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING
- PX.X — PLUMBING DRAWING NOTE REFERENCE
- 2 / P2.1 — DETAIL NUMBER OR PLAN; SHEET WHERE DETAIL OR PLAN IS SHOWN
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- ACCESS PANEL (AP)
- FIRE DEPARTMENT SIAMESE CONNECTION(WALL MOUNTED)
- FIRE DEPARTMENT SIAMESE CONNECTION(FREE STANDING)
- 2 / P7.1 — PLUMBING RISER DIAGRAM NUMBER; SHEET WHERE PLUMBING RISER DIAGRAM IS SHOWN

PLUMBING CODES

2021	INTERNATIONAL PLUMBING CODE W/ DALLAS AMENDMENTS
2021	INTERNATIONAL ENERGY CONSERVATION CODE W/ DALLAS AMENDMENTS
2021	INTERNATIONAL FIRE CODE W/ DALLAS AMENDMENTS
2021	INTERNATIONAL FUEL GAS CODE W/ DALLAS AMENDMENTS

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
PLUMBING SYMBOL LEGEND

Drawing No.
P0.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:04:38 PM

AIR COMPRESSOR NOTES:

1. CONTRACTOR SHALL NOTE THAT ALL COMPRESSED AIR REGULATORS ARE ADJUSTABLE. THE INITIAL SET POINT FOR ALL POINT OF USE REGULATORS SHALL BE 135 PSI. OWNER SHALL BE RESPONSIBLE FOR ADJUSTMENT AS NECESSARY TO MEET THEIR NEEDS.
2. CONTRACTOR SHALL PROVIDE POINT OF USE AIR SEPARATOR/DRYER AND REGULATOR AT EACH COMPRESSED AIR DROP AND REEL AS WELL AS AT EACH PIECE OF EQUIPMENT. LOCATION SHALL BE CONFIRMED WITH OWNER PRIOR TO INSTALLATION.
3. ALL POINT OF USE AIR SEPARATOR/DRYER AND REGULATOR SHALL BE AVENTICS, OR EQUAL, SERIES NLC.
4. CONTRACTOR SHALL PROVIDE A GARNER DENVER, OR EQUAL, GRADE A FIL SERIES FILTER BETWEEN THE AIR COMPRESSOR AND THE AIR DRYER.
5. CONTRACTOR SHALL PROVIDE A GARDNER DENVER, OR EQUAL, GRADE E FIL SERIES FILTER IMMEDIATELY AFTER THE AIR DRYER.
6. CONTRACTOR SHALL PROVIDE (2) SPARE FILTERS FOR EACH PIECE OF EQUIPMENT.
7. CONTRACTOR SHALL INSTALL A 4" CONCRETE HOUSEKEEPING PAD FOR AIR COMPRESSOR AND AIR DRYER.
8. CONTRACTOR SHALL CONFIRM WITH OWNER LOCATION OF HOSE REELS PRIOR TO INSTALLATION.

ROOF PLAN NOTES

1. CONFIRM FINAL DRAIN LOCATIONS WITH LATEST ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. MAKE ADJUSTMENTS AS REQUIRED.
2. ALL PRIMARY AND OVERFLOW ROOF DRAIN AND STORM PIPE SIZING IS BASED ON A RAINFALL RATE OF SIX (6) INCHES PER HOUR.
3. UNLESS NOTED OTHERWISE, THE ROOF EDGE IS TO PROVIDE A MEANS OF RAINWATER OVERFLOW IN AREAS WHERE NO OVERFLOW DRAINS ARE INDICATED.
4. UNLESS NOTED OTHERWISE, ROOF AREAS WITH NO ROOF DRAINS SHOWN ARE TO SHEET FLOW TO AND DRAIN VIA THE BUILDING EDGE. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF CONSTRUCTION AND FOR ANY DETAILS REGARDING GUTTERS AND/OR DOWNSPOUTS.
5. IF VENT TERMINAL LOCATIONS ARE NOT SHOWN ON THIS DRAWING, REFER TO INDIVIDUAL FLOOR PLANS AND COORDINATE ACCORDINGLY.
6. ALL VENT TERMINALS SHALL BE LOCATED NO LESS THAN FIFTEEN (15) FEET AWAY FROM ANY OPENABLE WINDOW, DOOR, OPENING, OUTSIDE AIR INTAKE, OR SUPPLY AIR FAN. IF LOCAL CODE OR FACILITY LICENSING REQUIREMENTS CALL FOR GREATER SEPARATION, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
7. PROVIDE BENDS, LOOPS, AND/OR OFFSETS FOR THERMAL EXPANSION AND CONTRACTION OF ROOFTOP GAS PIPING IN ACCORDANCE WITH NFPA 54.
8. PROVIDE ENGINEERED SUPPORTS FOR ALL ROOFTOP GAS PIPING. PROVIDE NECESSARY OFFSETS AND SUPPORTS TO ENSURE THAT NO PIPING RESTS DIRECTLY UPON COPING OR BUILDING EXPANSION JOINTS. PROVIDE SUPPORTS TO SECURELY FASTEN OUTDOOR VERTICAL PIPING TO FACES OF EXTERIOR WALLS. COORDINATE IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED TO PREVENT VISIBILITY OF SUCH PIPING FROM ANY ADJACENT WINDOWS OR OTHER GLAZING.
9. ALL GAS PIPING ROUTED ON ROOF OR SIMILARLY EXPOSED (UNBURIED, OUTSIDE THE BUILDING AND NOT INSTALLED BY THE LOCAL UTILITY PROVIDER) SHALL BE PAINTED TO PROVIDE PROTECTION AGAINST CORROSION AS REQUIRED BY THE FUEL GAS CODE. HIGH-SOLIDS, FAST CURE EPOXY, SEMI-GLOSS, YELLOW IN COLOR UNLESS REQUIRED OTHERWISE BY OWNER AND/OR AHJ.
10. ALL VERTICAL STORM CONDUCTORS WITHIN THE BUILDING SHALL BE LOCATED AND ROUTED CONCEALED FROM PUBLIC VIEW WITHIN CHASES/FURR-OUTS PROVIDED. REFER TO LATEST ARCHITECTURAL DRAWINGS. COORDINATE IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED.

SITE UTILITY NOTES

1. REFER TO CIVIL DRAWINGS FOR CONTINUATION OF DOMESTIC WATER, FIRE PROTECTION WATER, STORM, AND SANITARY WASTE UTILITIES.
2. REFER TO CIVIL DRAWINGS FOR LOCATION(S) OF WATER METER(S).
3. REFER TO CIVIL DRAWINGS FOR BUILDING FINISHED FLOOR ELEVATION(S).
4. ALL INVERT ELEVATIONS INDICATED ARE RELATIVE TO THE FINISHED FLOOR ELEVATION OF THE BUILDING SLAB AT THEIR RESPECTIVE LOCATIONS, UNLESS SPECIFICALLY NOTED OTHERWISE.
5. INVERT ELEVATIONS LISTED ARE APPROXIMATE. PRIOR TO CONSTRUCTION, COORDINATE FINAL INVERT ELEVATIONS OF GRAVITY OUTFALLS WITH SITE UTILITY CONTRACTOR. MAKE ADJUSTMENTS AS REQUIRED TO ENSURE PROPER CONNECTIONS TO AVAILABLE SITE UTILITIES.
6. ROLL-DOWN AS NECESSARY AND PROVIDE PIPE, FITTINGS, AND ADAPTERS AS REQUIRED TO MAKE PROPER CONNECTIONS TO SITE UTILITY LINES.
7. PROVIDE SCHEDULE 40 SOLID WALL PVC SLEEVES FOR ALL SITE GAS PIPING TO BE ROUTED BELOW CONCRETE, ASPHALT, OR PAVING. SLEEVES SHALL BE NO SMALLER THAN TWO TIMES THE DIAMETER OF THE GAS PIPING TO BE SERVED. ENSURE ALL SLEEVES ARE MAINTAINED FREE FROM DIRT AND DEBRIS. CLEARLY MARK ALL LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENSION OF UNDERGROUND GAS SLEEVES FROM METER TO EXISTING GAS MAIN. CONTRACTOR SHALL COORDINATE ROUTING WITH ALL TRADES AND OBTAIN UTILITY COMPANY APPROVAL PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE PULL BOXES AT ALL CHANGES IN DIRECTION. INSTALLATION AND PULL BOXES SHALL BE PER THE REQUIREMENTS OF THE UTILITY COMPANY. PULL BOXES SHALL BE EASILY IDENTIFIABLE, MARKED 'GAS' AND RATED FOR HEAVY DUTY TRAFFIC LOADS.
8. FIELD COORDINATE/CONFIRM THE ROUTING AND INSTALLATION OF GAS SERVICE PIPING WITH THE LOCAL UTILITY PROVIDER PRIOR TO ANY SITE PAVING WORK. MAKE ADJUSTMENTS AS REQUIRED.

FIXTURES NOTES

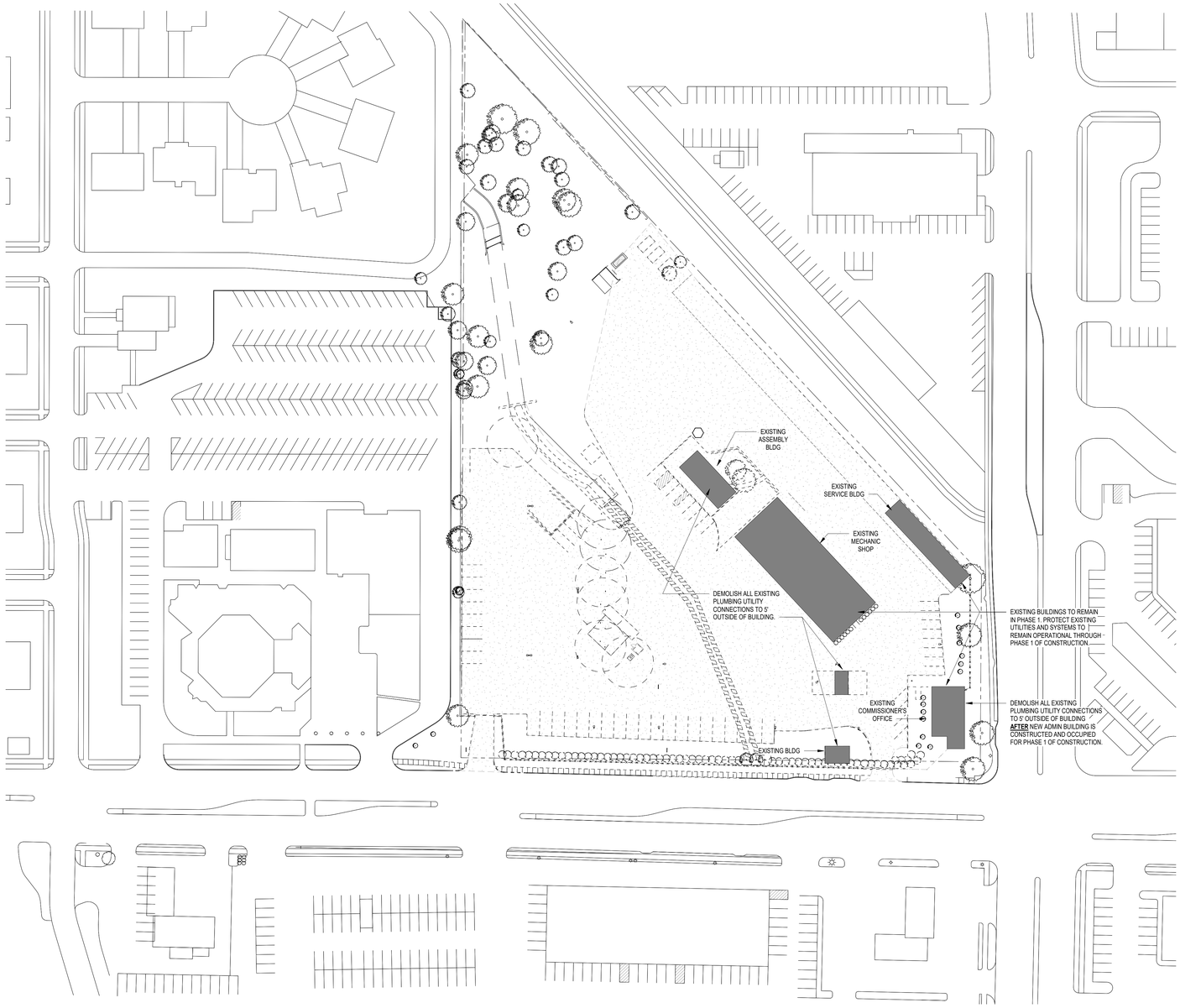
1. DO NOT ROUGH-IN UNDERGROUND PIPING OR ANY OTHER CONNECTIONS FOR FIXTURES FROM THE PLUMBING DRAWINGS. REFER TO LATEST ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONED LOCATIONS. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH THE LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
2. CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS. ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
3. THE MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG AND COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN WORK.
4. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, EQUIPMENT, AND RELATED ITEMS FURNISHED UNDER SEPARATE DIVISIONS. INSTALL ASSOCIATED TRIM AND COMPONENT ACCESSORIES FURNISHED UNDER SEPARATE DIVISIONS.
5. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF ACTUAL EQUIPMENT TO BE SUPPLIED FOR THE FINAL COORDINATION OF ALL ROUGH-INS BEFORE BEGINNING WORK.
6. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. UNLESS SPECIFIED OTHERWISE, ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED, AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES COMPLETE WITH SUPPLY RISERS OF TYPE 'L' TUBING, CHROME PLATED. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
7. ALL EXPOSED FIXTURE P-TRAPS WITHIN THE BUILDING AND ABOVE FLOOR SHALL BE CHROME PLATED ADJUSTABLE, HEAVY CAST BRASS WITH CLEANOUT PLUG, SLIP NUTS, AND 17 GAUGE SEAMLESS TUBULAR BRASS DRAIN TO WALL WITH WALL FLANGE. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
8. EACH FIXTURE TRAP SHALL HAVE A LIQUID SEAL OF NOT LESS THAN 2 INCHES AND NOT MORE THAN 4 INCHES, EXCEPT WHERE A DEEPER SEAL IS FOUND NECESSARY BY THE AUTHORITY HAVING JURISDICTION.
9. ALL ROUGH-IN OPENINGS SHALL BE FITTED WITH CHROME PLATED SOLID RING TYPE ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL.
10. ALL EXPOSED TAILPIECES, P-TRAPS, TRAP ARMS, ASSOCIATED HARDWARE AND ESCUTCHEONS SHALL BE CHROME PLATED.
11. ALL FIXTURES INDICATED AS OR REQUIRED TO BE HANDICAPPED ACCESSIBLE ("ADA" OR "TAS") SHALL BE PROVIDED IN APPROVED TYPES, WITH REQUIRED CONTROLS AND PROVIDED WITH THE REQUIRED HEIGHTS AND CLEARANCES. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS.
12. ALL EXPOSED LAVATORY AND SINK PIPING FOR ACCESSIBLE FIXTURES SHALL BE INSULATED WITH APPROVED, MANUFACTURED MOLDED VINYL COVERS BY TRUEBRO OR APPROVED EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO ENSURE REQUIRED MINIMUM CLEARANCES.
13. ALL ACCESSIBLE SINKS SHALL BE PROVIDED WITH DRAIN OUTLETS LOCATED ACCORDINGLY TOWARD THE REAR OF BASIN
14. ENSURE TO ORIENT ALL ACCESSIBLE WATER CLOSET FLUSH OPERATORS ON THE "WIDE" SIDE OF THE FIXTURE ENCLOSURE.
15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE SILICONE CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
16. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF SLOPED FLOORS. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO WITH INTENDED ARCHITECTURAL FLOOR FINISHES TO ENSURE THAT DRAINS ARE LOCATED ACCORDINGLY.
17. PROVIDE A COMPATIBLE WATER FILTER AT EACH ICE MAKING MACHINE.
18. ALL SINKS AND URINALS SHALL BE PROVIDED WITH WALL CLEANOUTS.
19. SHOCK ARRESTORS SHALL CONFORM WITH THE REQUIREMENTS OF ASSE 1010 AND SHALL BE SIZED AND LOCATED PER THE PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. PROVIDE ACCESS PANELS SIZED ACCORDINGLY TO ENSURE MAINTENANCE AND REPLACEMENT ACCESS TO ALL SHOCK ARRESTORS. FINAL LOCATIONS AND SIZES OF REQUIRED ACCESS PANELS SHALL BE REVIEWED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.

GENERAL FIRE PROTECTION NOTES

1. THE BUILDING SHALL BE FULLY FIRE SPRINKLERED. THE SCOPE OF WORK INCLUDES THE INSTALLATION OF SPRINKLER HEADS, PIPE, FITTINGS, HANGERS, AND ACCESSORIES. THE WORK SHALL ALSO INCLUDE VALVE SUPERVISORY SWITCHES, FLOW SWITCHES AND COORDINATION WITH THE BUILDING FIRE ALARM SYSTEM.
2. THE FIRE SPRINKLER SYSTEM SHALL PROVIDE COMPLETE AUTOMATIC PROTECTION AND COVERAGE AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND NFPA 13 (PREVAILING EDITION). THE SPRINKLER SYSTEM MUST ALSO BE APPROVED BY THE OWNER'S FIRE INSURANCE UNDERWRITER.
3. THE FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE PROTECTION CONTRACTOR.
4. COORDINATE SPRINKLER HEAD LOCATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS AND FINISHES. EXTEND BRANCH LINES ACCORDINGLY TO PROVIDE SPRINKLERS BOTH ABOVE AND BELOW ANY "CLOUD" CEILINGS, IF PRESENT. ALL SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILES REGARDLESS OF ANY NECESSITY TO PROVIDE ADDITIONAL HEADS TO ACCOMPLISH UNIFORM APPEARANCE OF THE COMPLETED INSTALLATION BY THIS REQUIREMENT. THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS NECESSARY DURING THE SHOP DRAWING PROCESS TO MEET ARCHITECTURAL REVIEW REQUIREMENTS WHILE STILL ENSURING COMPLETE AND COMPLIANT COVERAGE.
5. ENSURE TO LOCATE THE INSPECTOR'S TEST CONNECTION AT THE END OF THE MOST REMOTE BRANCH LINE FOR EACH SYSTEM.
6. COMPLETE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL BY THE OWNER'S FIRE INSURANCE UNDERWRITER AND FIRE MARSHAL. THEY SHALL ALSO BE SUBMITTED FOR REVIEW BY THE ARCHITECT AND ENGINEER OF RECORD.
7. SPRINKLER SYSTEM SHALL CONTAIN NO SUCH ADDITIONAL VALVES DOWNSTREAM OF THE CONTROL STATION.
8. THE SPRINKLER SYSTEM SHALL BE DESIGNED AS REQUIRED TO ACCOMMODATE FIXTURES, PARTITIONS, SOFFITS, FURR DOWNS, CEILING HEIGHTS, OBSTRUCTIONS, ETC.
9. REFER TO THE OWNER'S CRITERIA/CONSTRUCTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
10. REFER TO THE ARCHITECTURAL CODE ANALYSIS FOR ANY SPECIAL REQUIREMENTS.
11. THE SPRINKLER SYSTEM SHALL BE FULLY CHARGED AND OPERATIONAL WHEN THE CONTRACTOR IS OFF THE SITE.
12. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL MAKE AND PAY FOR ALL TESTS AS MAY BE REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL CORRECT ANY DEFECTS INDICATED BY TESTS TO THE SATISFACTION OF THE AUTHORITIES.
13. ALL UNCONDITIONED AND ENCLOSED GARAGE AREAS SHALL BE PROTECTED BY A DRY PIPE FIRE SPRINKLER SYSTEM.
14. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR OWNER, OWNER'S FIRE INSURANCE UNDERWRITER, AND FIRE MARSHALL'S APPROVAL.
15. FIRE SPRINKLER SYSTEM SHALL PROVIDE COMPLETE AUTOMATIC PROTECTION AND COVERAGE REQUIRED BY THE LOCAL, STATE, JURISDICTIONAL, GOVERNMENTAL AGENCIES AND NFPA 13 (LATEST ADDITION). THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO VALVE SUPERVISORY SWITCHES, FLOW SWITCHES AND COORDINATION WITH THE OWNER'S FIRE ALARM SYSTEM.
16. THE SCOPE OF WORK INCLUDES THE INSTALLATION OF SPRINKLER HEADS INCLUDING PIPE, FITTINGS, HANGERS, AND ACCESSORIES. CONTRACTOR SHALL COORDINATE WITH ARCHITECT THE LOCATIONS OF THE SPRINKLER HEADS PRIOR TO INSTALLATION.
17. REFER TO OWNER'S CRITERIA FOR ADDITIONAL INFORMATION.
18. CONTRACTOR SHALL INCLUDE TREATMENT FOR MIC. PROVIDE OWNER WITH A PERIODIC PLAN FOR TESTING THE SYSTEM'S WATER.
19. THE DESIGN SHALL BE THOROUGHLY COORDINATED WITH THE ARCHITECT. IT IS A REQUIREMENT TO OBTAIN APPROVAL FOR EACH PIPE RUN AND SPRINKLER HEAD LOCATION. THE DESIGN OF THE SPRINKLER SYSTEM SHALL BE ACCOMPLISHED WITH THE FULL APPROVAL OF THE ARCHITECT. CLOSE AND THOROUGH COORDINATION IS REQUIRED. IF WRITTEN APPROVAL OF SYSTEM IS NOT APPROVED BY THE ARCHITECT THEN ALL MODIFICATIONS WILL BE AT THE CONTRACTORS EXPENSE.
20. THE EXACT ROUTING OF PIPING AND PLACEMENT OF SPRINKLER HEADS SHALL BE COORDINATED WITH THE ARCHITECT. THIS BUILDING INCLUDED INTRICATE CEILING/STRUCTURAL CONFIGURATIONS THAT WILL NECESSITATE APPROVAL OF EACH AND EVERY PIPE RUN AND SPRINKLER HEAD LOCATION. THE CONTRACTOR SHALL DESIGN THE SPRINKLER SYSTEM USING GUIDELINES ESTABLISHED BY THE ARCHITECT. OBTAIN APPROVAL FROM THE ARCHITECT FOR EACH FIRE SPRINKLER HEAD AND PIPE RUN IN EACH AND EVERY ROOM WITHIN THE BUILDING. THE GUIDELINES ESTABLISHED BY THE ARCHITECT SHALL IN NO WALL DIMINISH THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A FULLY DESIGNED, SIZED, WORKING AND APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM AS REQUIRED BY THE CONTRACT DOCUMENTS, PROJECT MANUALS/SPECIFICATIONS, LOCAL AHJ, CODE AND THE LAWS OF THE STATE. PROVE A COMPLETE, WORKING AND APPROVED SYSTEM.
21. SUPERVISORY SWITCHES SHALL BE MOUNTED SO THAT THEY WILL NOT INTERFERE WITH NORMAL OPERATION OF THE VALVE AND SHALL BE ADJUSTED TO OPERATE WITHIN TWO REVOLUTIONS OF THE VALVE CONTROL OR WHEN THE STEM HAS MOVED NO MORE THAN 1/5 OF THE DISTANCE FROM ITS NORMAL POSITION.
22. MAKING ADJUSTMENTS TO FIELD CONDITIONS IS CONSIDERED PART OF THE WORK REQUIRED. DO NOT USE CONTRACT DRAWINGS ACCOMPANYING THESE SPECIFICATIONS FOR ROUGH-IN LOCATIONS BUT ONLY FOR PIPE SIZING AND GENERAL ROUTING.
23. CONTRACTOR SHALL EXAMINE AND FAMILIARIZE THEMSELVES WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND LOW VOLTAGE DRAWINGS TO BE KNOWLEDGEABLE OF ALL CONNECTIONS AND SPACE LIMITATIONS.
24. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHALL ALL FITTINGS AND APPURTENANCES REQUIRED. CONTRACTOR SHALL INCLUDE IN THEIR BID COSTS FOR ITEMS OF MATERIAL AND LABOR WHICH ARE NOT SPECIFICALLY CALLED FOR IN THE DRAWINGS OR SPECIFICATIONS, BUT WHICH ARE REQUIRED TO MAKE A FIRE PROTECTION SYSTEM INSTALLATION. CONTRACTOR SHALL MAKE ANY NECESSARY CHANGES TO AVOID BEAMS, FOOTINGS, COLUMNS, PIERS, VENTS, DUCTS, EQUIPMENT AND ANY OTHER OBSTRUCTIONS.
25. ALL DUCTWORK, LIGHTING, STRUCTURAL MEMBERS AND MAIN RUNS OF ALL OTHER PIPING SHALL TAKE PRECEDENCE OVER SPRINKLER PIPING; COORDINATE WITH ALL OTHER TRADES.
26. IN ANY CASE WHERE A PIPE SHOWN ON A PLAN SHEET DIFFERS FROM THAT SHOWN ON A RISER, SCHEMATIC OR DETAIL, USE THE LARGER OF THE TWO SIZES SHOWN.
27. ALL SPRINKLER PIPING SHALL BE ROUTED CONCEALED AND HIDDEN FROM VIEW IN WALLS, ABOVE CEILINGS OR IN CHASES WITHIN FINISHED AREAS. ALL SPRINKLER PIPING LOCATED IN EXPOSED AREAS SHALL INSTALLED IN A CLEAN FASHION. PIPING SHALL BE RUNNING PERPENDICULAR AND PARALLEL TO STRUCTURAL ELEMENTS.
28. STEEL TAGS SHALL BE PROVIDED FOR FIRE SPRINKLER CALCULATIONS IN LIEU OF PAPER TAGS.
29. SPRINKLER CONTRACTOR SHALL PROVIDE AN INTERMEDIATE TEMPERATURE SPRINKLER HEAD WITHIN ALL IDF, MDF AND ELECTRICAL ROOMS.
30. ALL SPRINKLER PIPING LOCATED IN EXPOSED AREAS SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT.
31. CONTRACTOR SHALL SPACE SPRINKLER HEADS AROUND HVLS FANS AS REQUIRED BY NFPA.

GENERAL WORK NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE PREVAILING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, DIRECTION OF FLOW, PIPE SIZES & CAPACITIES, AND PIPE MATERIAL & CONDITION AT PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK. MODIFY/REPLACE EXISTING PIPING IF AND AS REQUIRED TO ENSURE PROPER CONNECTIONS. ONLY CONNECT NEW LINES TO SUITABLE EXISTING LINES OF EQUAL OR GREATER SIZE.
3. COORDINATE ROUTING OF BURIED PIPING WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND UTILITIES, AND ALL OTHER SUB-SURFACE BUILDING ELEMENTS. MAKE ADJUSTMENTS AS REQUIRED AND ADVISE ARCHITECT/ENGINEER OF ANY GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION.
4. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS WILL BE REQUIRED, THE CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER AND PROVIDE ALL SUCH WORK ACCORDINGLY.
5. COORDINATE IN FIELD TO ENSURE NO LESS THAN 6 INCHES OF EARTHEN COVER FROM TOPS OF DRAINAGE PIPES TO BOTTOMS OF GRADE BEAMS, FOUNDATION WALLS, OR SIMILAR ELEMENTS. WHERE SUCH COVER CANNOT BE PROVIDED DUE TO INVERT ELEVATIONS, PROVIDE SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES THROUGH THE FOUNDATION ELEMENTS. SLEEVES SHALL BE NO SMALLER THAN TWO PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATERTIGHT. COORDINATE WITH AND ADHERE TO ALL RELATED REQUIREMENTS PER THE STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL FIELD COORDINATE LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.
7. ALL PIPE PASSING THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SUPPORTED AT THE PENETRATION AND SHALL BE SEALED WITH APPROVED FIRE STOP MATERIALS AS SPECIFIED AND AS REQUIRED BY CODE AND THE AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING ALL PLUMBING PIPING SLEEVE LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR SUPPORTS.
9. HORIZONTAL GRAVITY DRAINAGE PIPING SHALL BE PROVIDED AT NO LESS THAN THE MINIMUM SLOPE AS REQUIRED BY THE PREVAILING PLUMBING CODE.
   A. IN ACCORDANCE WITH THE UPC, GRAVITY DRAINAGE PIPING 3" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 4" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   B. IN ACCORDANCE WITH THE IPC, GRAVITY DRAINAGE PIPING 2-1/2" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 3" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   C. WHERE THE PREVAILING CODE REQUIRES A STEEPER SLOPE THAN INDICATED ABOVE (SUCH AS FOR GREASE WASTE PIPING) THEN SUCH REQUIREMENT SHALL CONTROL.
10. SLOPE ALL VENT PIPE BACK FROM THE VENT TERMINAL AT A MINIMUM 6" PER 100 FEET OF RUN.
11. PROVIDE FITTINGS FOR DRAINAGE WASTE AND VENT (DWV) AND STORM PIPING SYSTEMS OF APPROVED DRAINAGE PATTERN AND LONG OR SHORT RADIUS TYPES AS REQUIRED AND APPROVED FOR USE IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
12. PROVIDE CLEANOUTS AT EACH CHANGE OF DRAINLINE DIRECTION GREATER THAN 45° AND IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
13. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL DRAINAGE PIPING. PROVIDE RESTRAINTS AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. SPECIFICALLY ENGINEERED BRACES, STRAPS, AND CLAMPS CONSISTENT WITH THE PIPE AND COUPLING MANUFACTURER RECOMMENDATIONS. THE APPLICABLE INSTALLATION STANDARDS. AND LOCAL CODE REQUIREMENTS SHALL BE ACCEPTABLE. HOLDRITE OR PRE-APPROVED EQUIVALENT.
14. PROVIDE ISOLATING BALL VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE MILCOR STYLE 'K' PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT.
15. ALL HOT WATER AND HOT WATER CIRCULATING PIPING SHALL BE PROVIDED WITH FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND SELF SEALING LAP JOINT AS FOLLOWS:
   A. 1" THICK INSULATION FOR PIPE SIZES 1-1/4" AND SMALLER.
   B. 1-1/2" THICK INSULATION FOR PIPE SIZES 1-1/2" AND LARGER.
16. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVAL/REPLACEMENT.
17. CONTRACTOR SHALL STERILIZE ALL DOMESTIC WATER PIPING ACCORDING TO AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
18. ALL CAST IRON PIPE, FITTINGS AND INSTALLATION SHALL COMPLY WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS.
19. FLASH FLOOR DRAINS IN FLOORS WITH TOPPING OVER FINISHED AREAS WITH 40 MIL PVC MEMBRANE, 10 INCHES CLEAR ON SIDES WITH MINIMUM 36 X 36 INCH SHEET SIZE. FASTEN WATERPROOFING MEMBRANE FLASHING TO DRAIN CLAMPING DEVICE.
20. NO PLUMBING PIPING SHALL BE ROUTED OVER MAJOR MECHANICAL EQUIPMENT, ELECTRICAL/TECHNOLOGY EQUIPMENT, MDF/IDF/DATA CLOSETS, ELECTRICAL ROOMS, OR ANY SUCH EQUIPMENT.
21. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND ALSO TO MINIMIZE INTERRUPTION OF SERVICES FOR RENOVATIONS.
22. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVALS/REPLACEMENTS.
23. NO VALVES OR UNIONS SHALL BE PERMITTED TO BE INSTALLED ABOVE THE CEILING AS IT PERTAINS TO THE GAS SYSTEM. VALVES FOR GAS SYSTEM WILL BE SHOWN ON PLANS OR RISERS IN ACCESSIBLE LOCATIONS.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING GAS PIPING WITH ADEQUATE EXPANSION AS REQUIRED BY CODE.
25. ALL GAS PRESSURE REGULATORS SHALL BE INDIVIDUALLY VENTED TO THE EXTERIOR AND SHALL TERMINATE AT A MINIMUM OF 15' AWAY FROM ANY OUTSIDE AIR INTAKE. TERMINATION SHALL OCCUR THRU THE ROOF.
26. REFER TO GAS 3D RISERS FOR APPROXIMATE FURTHEST OUTLET DISTANCE FROM GAS METER; PIPE SIZES ARE BASED ON AN INITIAL PRESSURE OF 5 PSIG WITH A 10% LOSS.
27. ALL EXPOSED GAS PIPING SHALL BE CLEANED, PRIMED AND PAINTED WITH TWO COATS OF ZINC BASED ALUMINUM PAINT; COLOR SHALL BE YELLOW OR AS DIRECTED BY ARCHITECT.
28. PROVIDE FULL SIZE BY-PASS AROUND ALL NEW BACKFLOW PREVENTORS AND DOMESTIC BOOSTER PUMPS.
29. PROVIDE AN ACCESSIBLE WALL CLEANOUT AT THE BASE OF EACH SANITARY/VENT AND STORM RISER, WHETHER INDICATED ON PLAN DRAWINGS OR NOT. CONTRACTOR SHALL PROVIDE A WALL CLEANOUT FOR ALL SANITARY VENT LINES RISING UP FROM BELOW GRADE PIPE ROUTING.
30. ALL VENTS SHALL BE HEADERED AT A MINIMUM OF 42" A.F.F.
31. ALL DOMESTIC WATER AND SANITARY VENT LINES SERVING FIXTURE GROUPS SHALL HAVE A FULL SIZE HEADER THAT RUNS THE LENGTH OF THE CHASE/WALL SPACE FOR CONNECTION TO ALL FIXTURES. REFER TO PLANS FOR HEADER SIZES, WHICH MAY BE INDICATED BY THE VERTICAL DROP DOWN OR RISE UP FROM THE CHASE. REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL FIXTURE ROUGH-IN CONNECTION SIZES TO HEADER.
32. FOR FLOOR MOUNTED WATER HEATERS AND SIMILAR EQUIPMENT, PROVIDE A RECTANGULAR SHAPED 4" THICK CONCRETE HOUSEKEEPING PAD EXTENDING TO BEYOND THE LIMITS OF THE EQUIPMENT FOOTPRINT.
33. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF ALL BACKFLOW PREVENTERS AND PROVIDING THE REQUIRED DOCUMENTATION AS REQUIRED TO THE AUTHORITY HAVING JURISDICTION TESTING SHALL OCCUR AFTER IMMEDIATE INSTALLATION AND ON AN ANNUAL BASIS. PROVIDE OWNER WITH AT PERIODIC PLAN FOR TESTING.
34. ALL PIPING WITHIN UNCONDITIONED SPACES SHALL BE INSULATED AND IN A METAL JACKET.
35. ALL PIPING SHALL BE ROUTED AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE. FIELD COORDINATE WITH ALL OTHER TRADES. ENSURE THAT ALL PIPING IS MOUNTED TO STRUCTURAL ELEMENTS AND THAT NO FREE-SPANNING OCCURS. ALL DROPS TO PENS SHALL BE DOWN THE FACE OF THE STRUCTURE; WHERE NO STRUCT



1 PLUMBING DEMOLITION SITE PLAN

1" = 50'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 115001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
PLUMBING DEMOLITION SITE PLAN

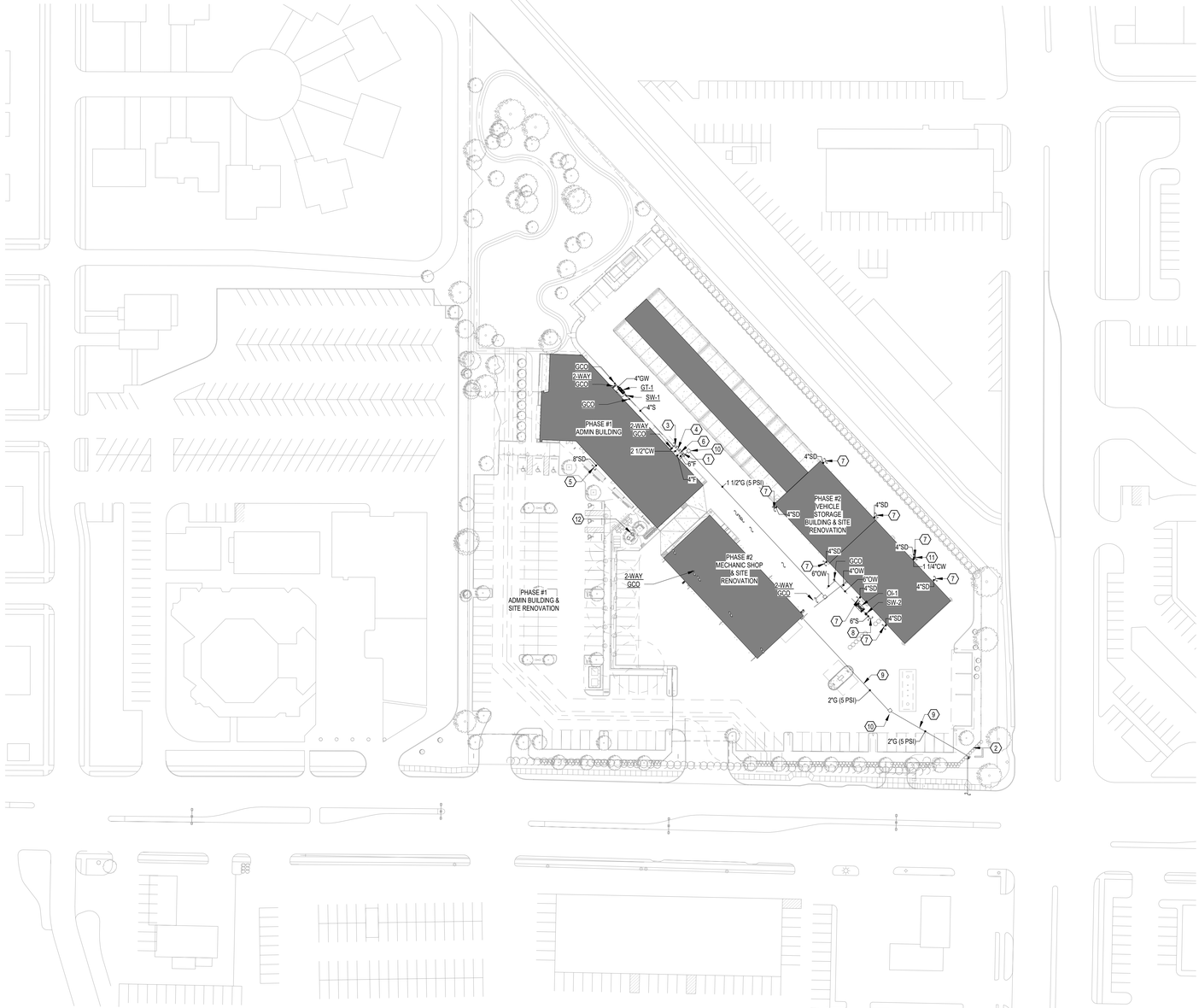
Drawing No.
PDS1.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:08:23 PM



1 PLUMBING SITE PLAN
1" = 50'-0"

PLUMBING KEYED NOTES

1 6" FIRE PROTECTION WATER SERVICE. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE.

2 LOCATION OF NEW GAS METER. 1164 CFH TOTAL CONNECTED LOAD AND 5 PSI OUTLET PRESSURE. COORDINATE WITH LOCAL UTILITY PROVIDER.

3 4" SANITARY BUILDING DRAIN (I.E. = -5'-4" B.F.F.). REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE.

4 2-1/2" DOMESTIC WATER SERVICE. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE.

5 8" STORM BUILDING DRAIN (I.E. = -5'-0" B.F.F.). REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF BUILDING.

6 4" FIRE PROTECTION WATER LINE TO REMOTE PEDESTAL. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE.

7 4" STORM BUILDING DRAIN (I.E. = -4'-6" B.F.F.). REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF BUILDING.

8 6" SANITARY BUILDING DRAIN (I.E. = -5'-6" B.F.F.). REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE.

9 CONTRACTOR SHALL INSTALL SCHEDULE 40 PVC SLEEVE AT A MINIMUM OF 30" BELOW FINISH GRADE FOR UNDERGROUND GAS PIPING AND COORDINATE ROUTING OF UNDERGROUND GAS LINES SERVING BUILDINGS WITH CIVIL UTILITIES ON SITE.

10 PROPOSED LOCATION OF NEW 3'-0" BY 3'-0" GAS PULL BOX PER UTILITY STANDARDS. BOX SHALL BE EASILY IDENTIFIABLE, MARKED 'GAS' AND RATED FOR HEAVY DUTY TRAFFIC LOADS. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.

11 1-1/4" DOMESTIC WATER SERVICE. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE.

12 REMOTE FDC LOCATION FOR ADMINISTRATION BUILDING AND MECHANIC SHOP. REFER TO CIVIL FOR FIRE PROTECTION SITE ROUTING FROM FIRE RISER ROOM. CONTRACTOR SHALL PROVIDE APPROPRIATE SIGNAGE INDICATING ASSOCIATED BUILDING FOR EACH FDC PER NFPA REQUIREMENTS.

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING. PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
PLUMBING SITE PLAN

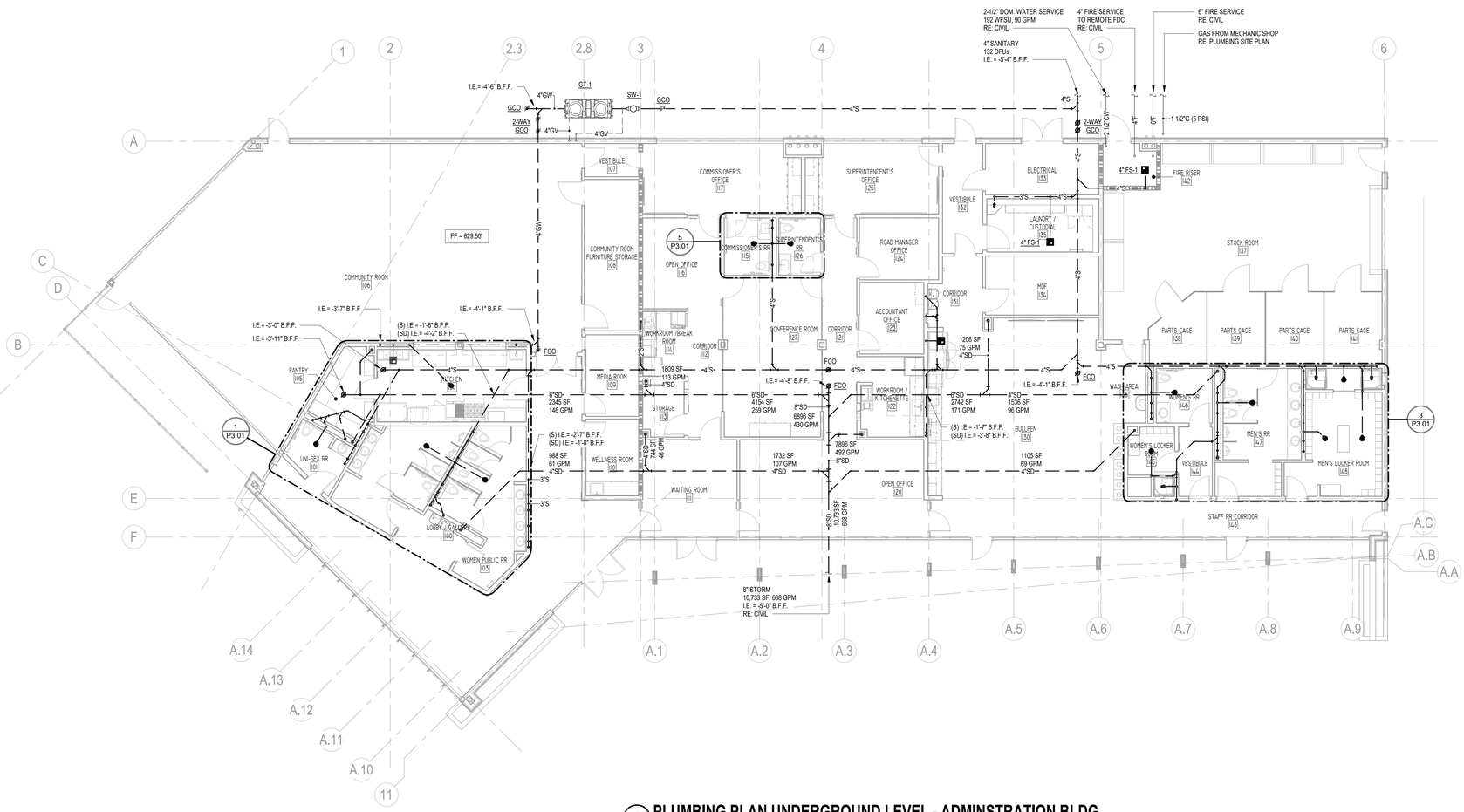
Drawing No.
PS1.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:04:35 PM



1 PLUMBING PLAN UNDERGROUND LEVEL - ADMINSTRATION BLDG

1/8" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
Checker

Sheet Title:
PLUMBING PLAN UNDERGROUND LEVEL - ADMINSTRATION BLDG

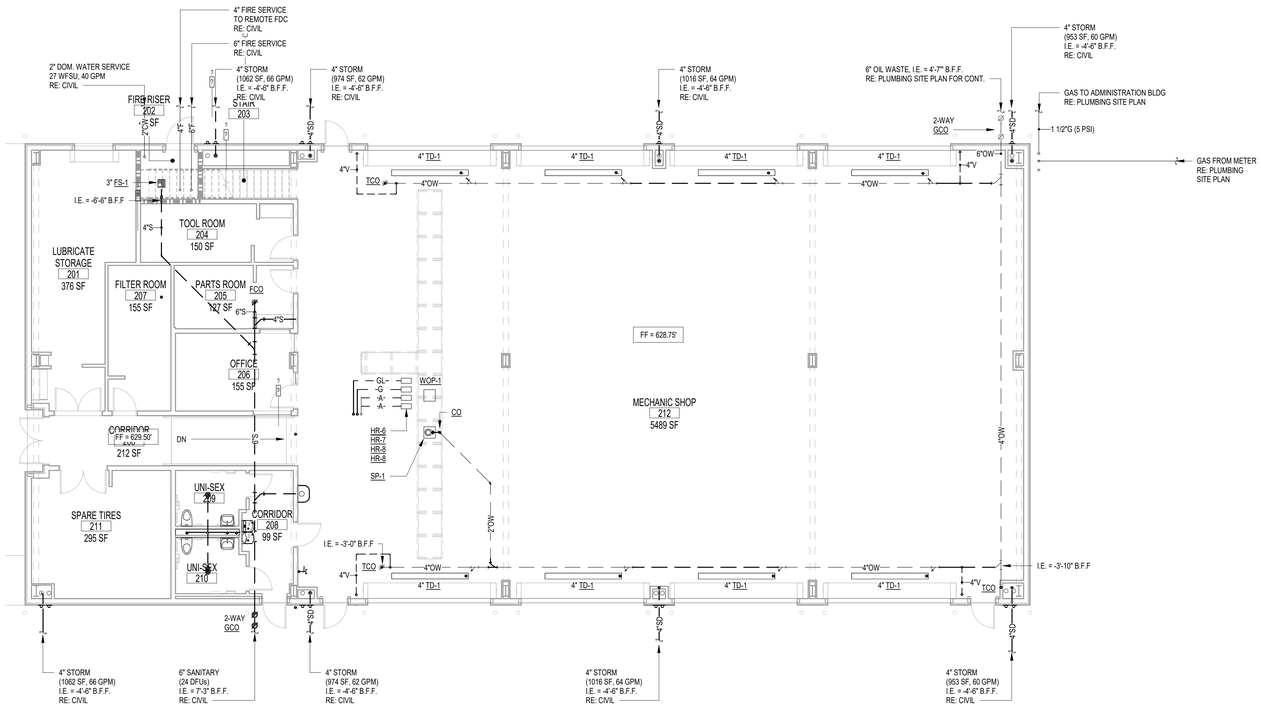
Drawing No.
P2.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:04:45 PM



1 PLUMBING PLAN UNDERGROUND LEVEL - MECHANIC'S SHOP

1/8" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING. PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
Checker

Sheet Title:
PLUMBING PLAN
UNDERGROUND LEVEL - MECHANIC'S SHOP

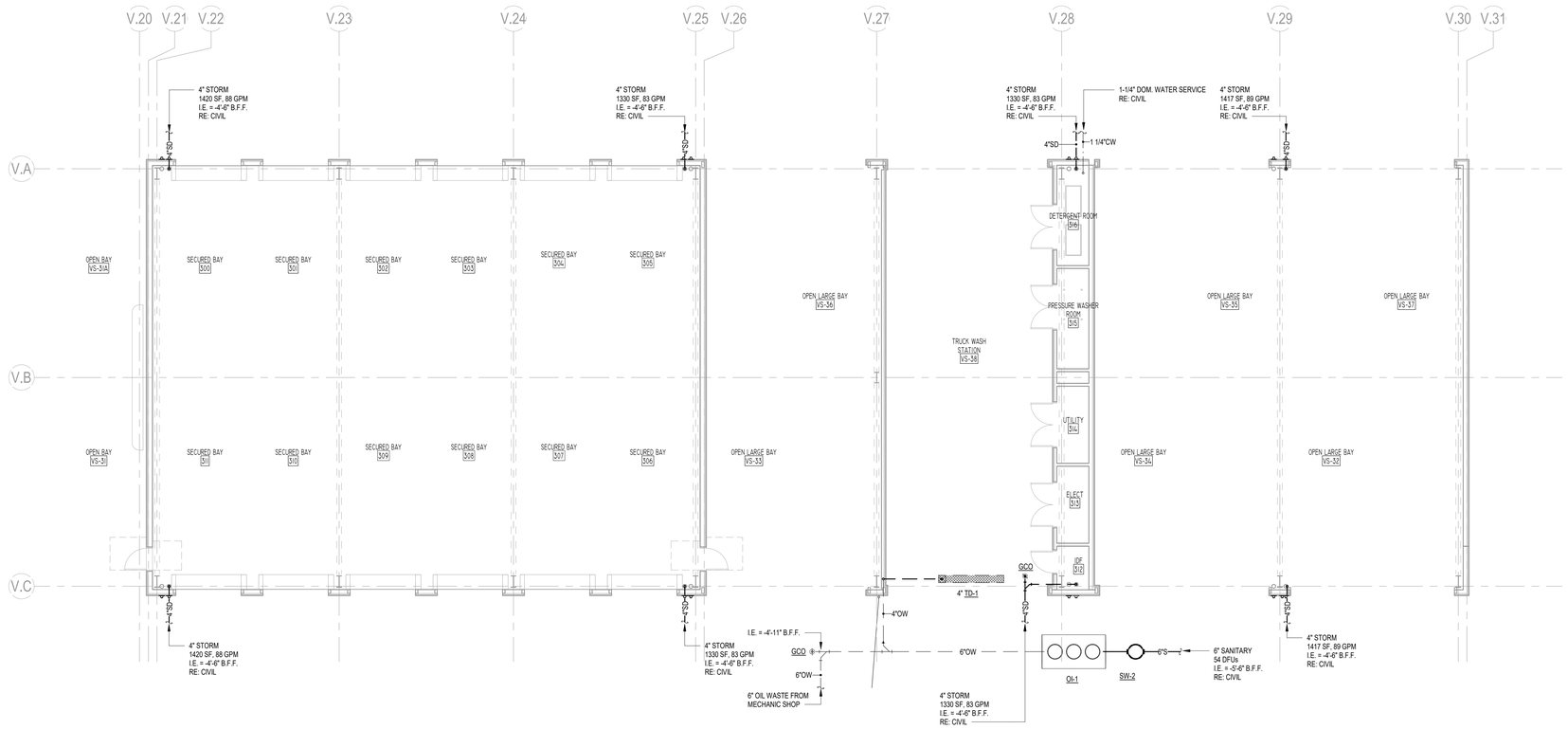
Drawing No.
P2.02

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:04:48 PM



1 PLUMBING PLAN UNDERGROUND LEVEL - VEHICLE STORAGE BLDG

1/8" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING, PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
PLUMBING PLAN
UNDERGROUND LEVEL - VEHICLE STORAGE BLDG

Drawing No.
P2.03

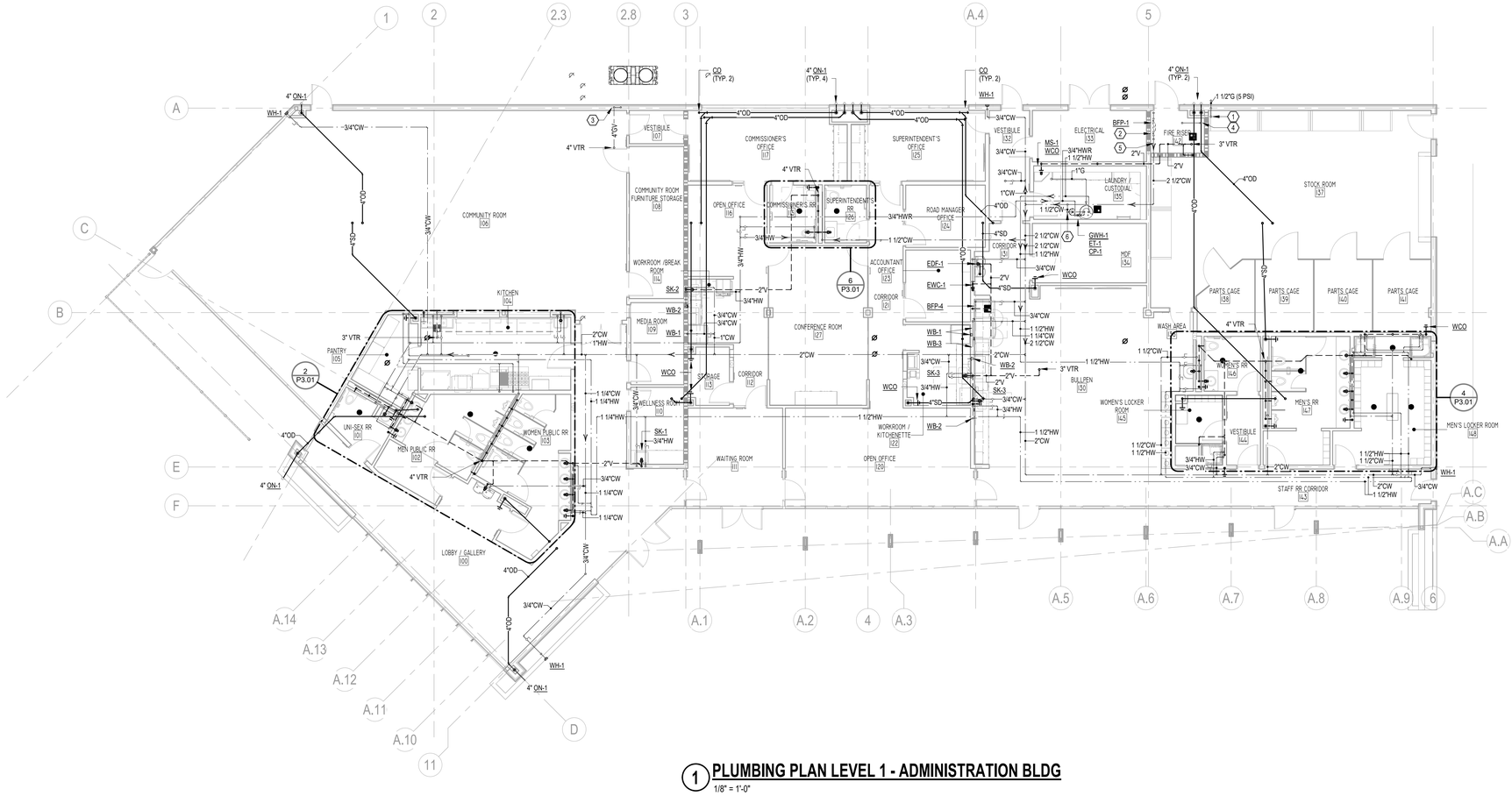
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f

TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:04:51 PM



1 PLUMBING PLAN LEVEL 1 - ADMINISTRATION BLDG

1/8" = 1'-0"

PLUMBING KEYED NOTES

1. 2" (5 PSI) GAS UP TO ROOF.
2. PROVIDE 2-1/2" RPZ BACKFLOW PREVENTER EQUAL TO WATTS SERIES 909 36" A.F.F. ROUTE FULL SIZE DISCHARGE TO FLOOR SINK.
3. 4" GREASE VENT UP FROM GREASE INTERCEPTOR. CONNECTION GREASE VENTS 12" ABOVE FINISHED FLOOR.
4. 4" FIRE SERVICE LINE TO THE REMOTE PEDESTAL. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
5. PROVIDE SUBMETER ON DOMESTIC WATER LINE DOWNSTREAM OF BACKFLOW PREVENTER. PROVIDE ISOLATION VALVES ON BOTH SIDES OF SUBMETER.
6. PROVIDE SUBMETER ON DOMESTIC WATER LINE SERVING WATER HEATER. PROVIDE ISOLATION VALVES ON BOTH SIDES OF SUBMETER.

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
PLUMBING PLAN LEVEL 1 - ADMINISTRATION BLDG

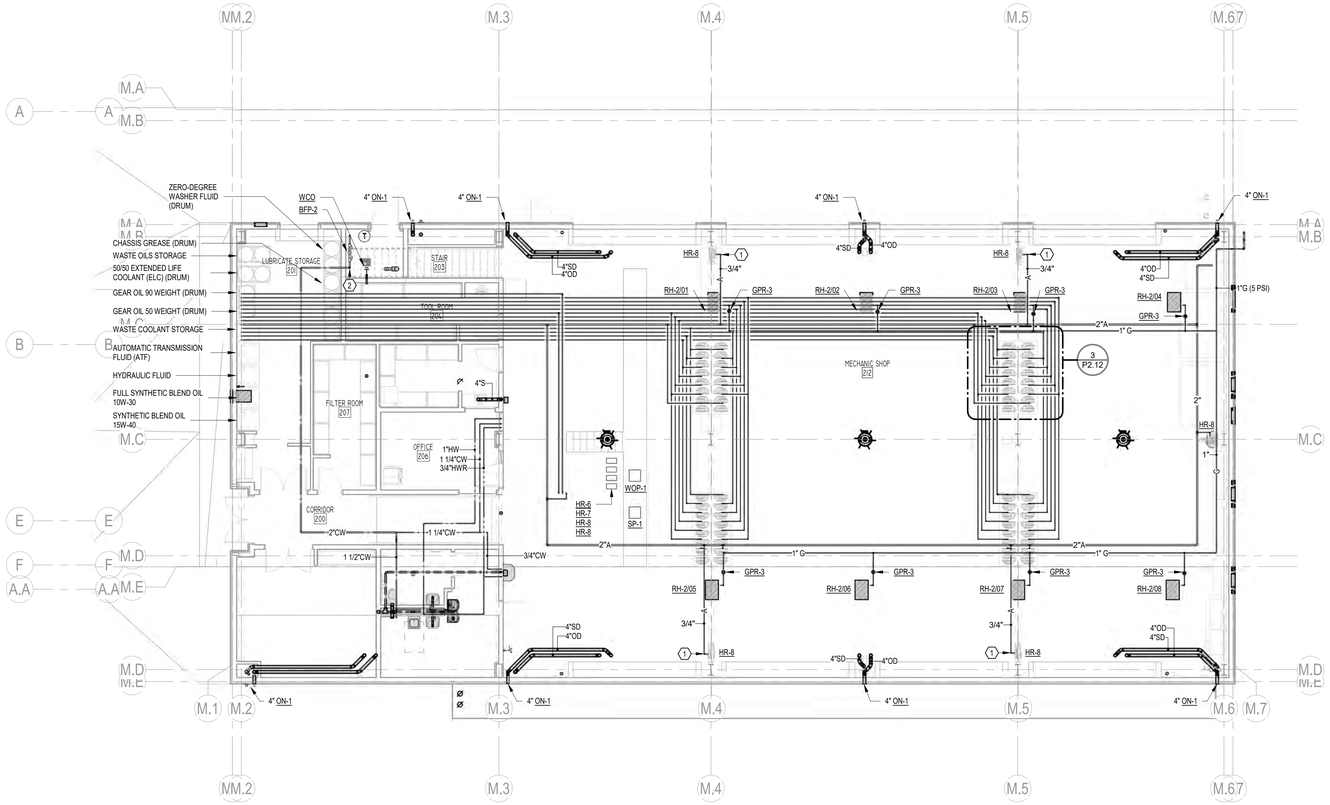
Drawing No.
P2.11

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:04:58 PM



1 PLUMBING PLAN LEVEL 1 - MECHANIC'S SHOP

1/8" = 1'-0"

SPECIALITY PIPING NOTES:

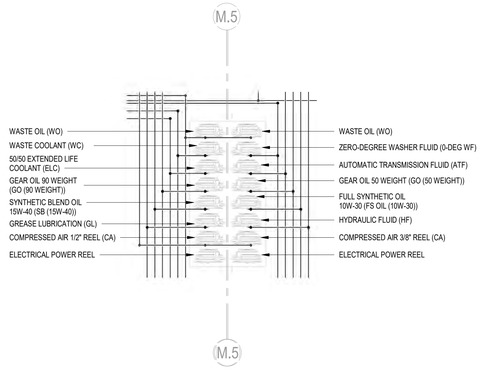
1. FOR MOTOR OIL, TRANSMISSION FLUID, GREASE, AND GEAR LUBE DISTRIBUTION SYSTEMS PROVIDE SCHEDULE 40 ASTM A53 GRADE A, TYPE F (CONTINUOUS WELDED) STEEL PIPE BY WHEATLAND TUBE OR PRE-APPROVED EQUAL. PROVIDE WITH THREADED JOINTS AND SCHEDULE 40 ASTM A197, CLASS 150 MALLEABLE IRON THREADED FITTINGS WITH BLACK FINISH AND PRODUCED TO ASME B16.3. SYSTEM COMPONENTS SHALL NOT BE GALVANIZED. ALL VALVES SHALL BE THREADED END, TWO PIECE BRONZE BODIED, FULL PORT, TFE SEATED WITH STAINLESS STEEL BALL AND TRIM WITH BLOWOUT PROOF STEM. NIBCO T-585-70-66 OR PRE-APPROVED EQUAL. PROVIDE MANUFACTURER'S RECOMMENDED ADAPTERS, HOSES, COUPLINGS, ETC. FOR FINAL CONNECTIONS TO DRUMS, TANKS, HOSE REELS, DISEPENSERS, ETC. IN LIEU OF THREADED FITTINGS, JOINTS, AND VALVES, VIEGA MEGA-PRESS G PRESS CONNECT SYSTEM MAY BE PROVIDED (NOT TO EXCEED 125 PSI SYSTEM PRESSURE). CARBON STEEL ALLOY FITTINGS WITH CORROSION RESISTANT ZINC/NICKEL COATING AND HNBR SEALING ELEMENTS. THE ACCOMPANYING MEGA PRESS G BALL VALVES FOR SIZES UP THROUGH 2" SHALL BE VIEGA MODEL 6675 OF BRONZE AND CARBON STEEL CONSTRUCTION WITH HNBR SEALING ELEMENTS AND 316 STAINLESS STEEL BALL.
2. FOR ANTIFREEZE DISTRIBUTION SYSTEMS PROVIDE ASTM B88 TYPE L HARD DRAWN COPPER TUBE WITH ASME B16.18 CAST COPPER ALLOY OR ASME B16.22 WROUGHT COPPER ALLOY SOLDER JOINT PRESSURE FITTINGS. ALL VALVES SHALL BE THREADED END, TWO PIECE BRONZE BODIED, FULL PORT, TFE SEATED WITH STAINLESS STEEL BALL AND TRIM WITH BLOWOUT PROOF STEM. NIBCO T-585-70-66 OR PRE-APPROVED EQUAL. PROVIDE MANUFACTURER'S RECOMMENDED ADAPTERS, HOSES, COUPLINGS, ETC. FOR FINAL CONNECTIONS TO DRUMS, TANKS, HOSE REELS, DISEPENSERS, ETC.

PLUMBING KEYED NOTES

1 3/4" COMPRESSED AIR DROP DOWN; PROVIDE SHUT-OFF BALL VALVE AND ASCO SERIES 160 PRESSURE REGULATOR/SEPARATOR WITH GAUGE. IN AN EASILY ACCESSIBLE LOCATION. CONTRACTOR SHALL CONNECT TO HOSE REEL (HR-8).

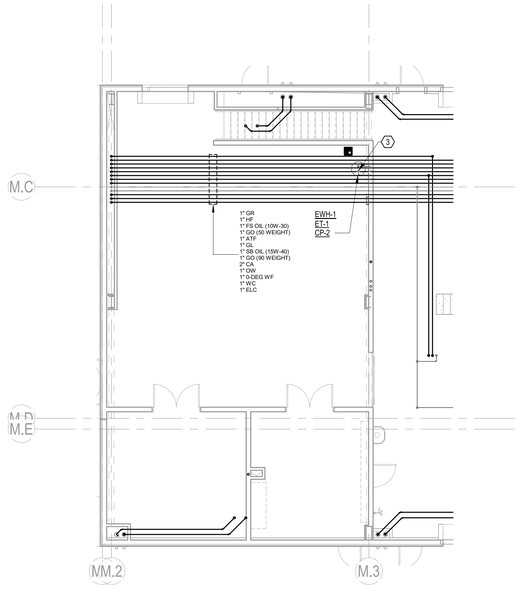
2 PROVIDE SUBMETER ON DOMESTIC WATER LINE DOWNSTREAM OF BACKFLOW PREVENTER. PROVIDE ISOLATION VALVES ON BOTH SIDES OF SUBMETER.

3 PROVIDE SUBMETER ON DOMESTIC WATER LINE SERVING WATER HEATER. PROVIDE ISOLATION VALVES ON BOTH SIDES OF SUBMETER.



3 MECHANIC SHOP OVERHEAD REEL DETAIL

1/4" = 1'-0"



2 PLUMBING MEZZANINE- MECHANIC'S SHOP

1/8" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING. PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
PLUMBING PLAN LEVEL 1 - MECHANIC'S SHOP

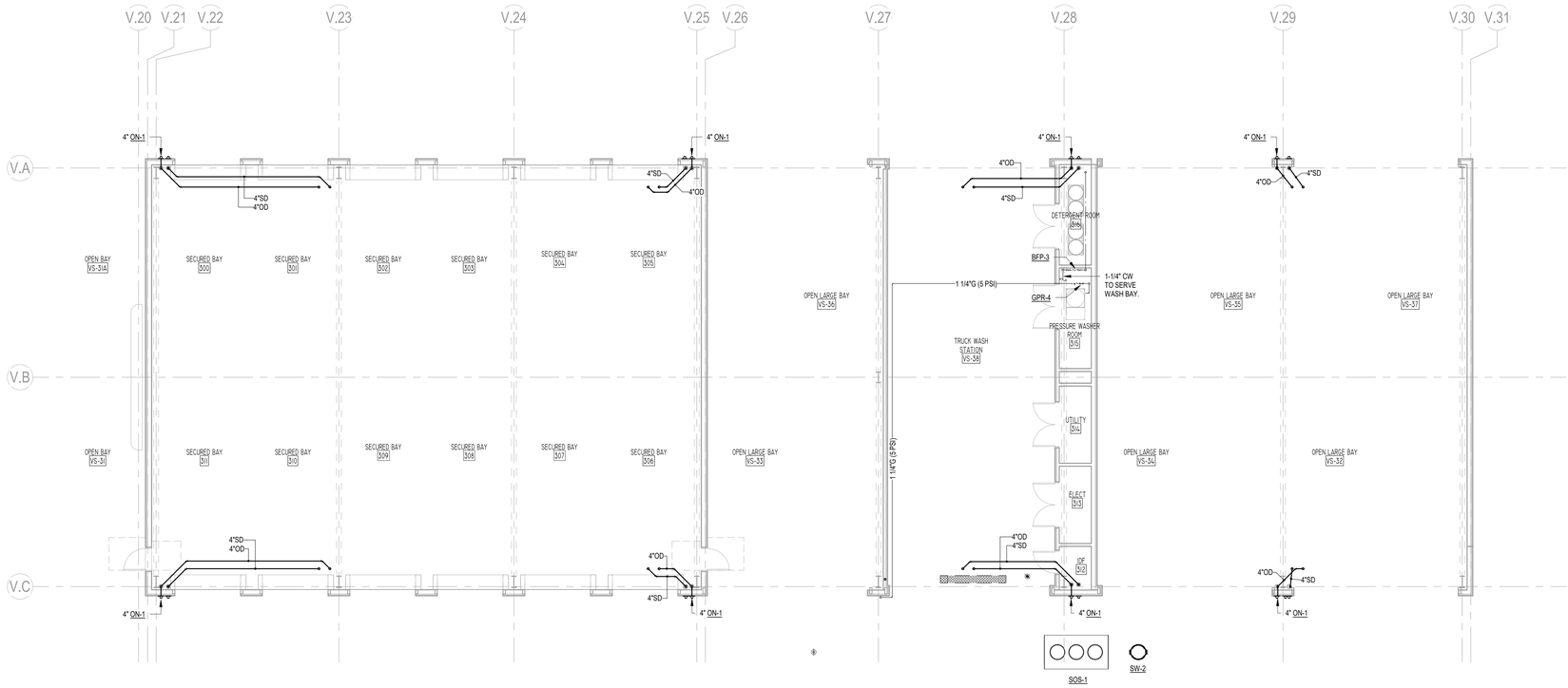
Drawing No.
P2.12

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:05:18 PM



1 PLUMBING PLAN LEVEL 1 - VEHICLE STORAGE BLDG

1/8" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING. PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
PLUMBING PLAN LEVEL 1 - VEHICLE STORAGE BLDG

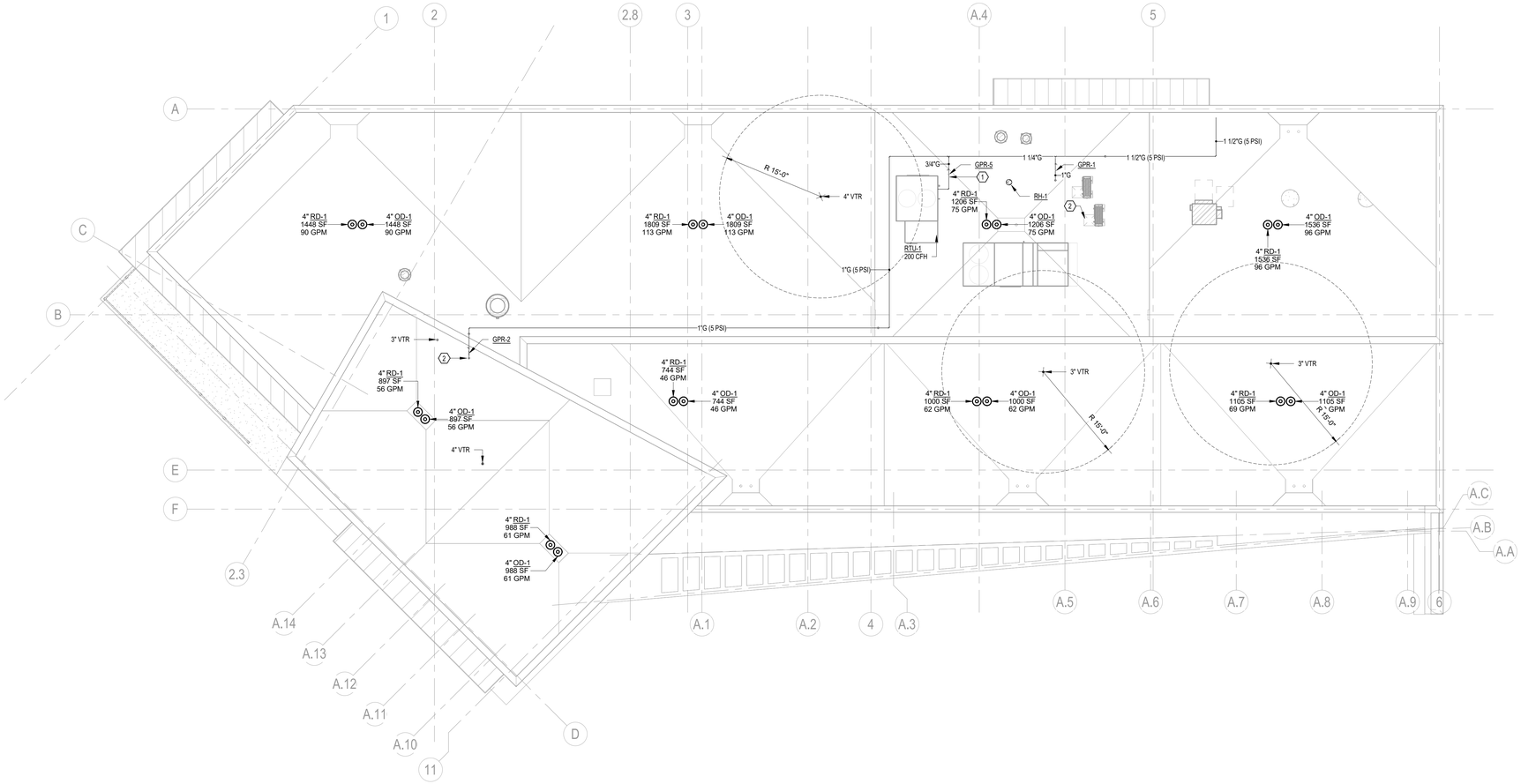
Drawing No.
P2.13

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:05:22 PM



1 PLUMBING ROOF PLAN - ADMINSTRATION BLDG

1/8" = 1'-0"

PLUMBING KEYED NOTES

1 PROVIDE GAS PRESSURE REGULATOR (5.0-0.5 PSIG), DIRT LEG, AND ISOLATION VALVE BEFORE CONNECTION.

2 PROVIDE GAS PRESSURE REGULATOR (5.0-0.5 PSIG) AND ISOLATION VALVE.

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING, PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
Checker

Sheet Title:
PLUMBING ROOF PLAN - ADMINSTRATION BLDG

Drawing No.

P2.31

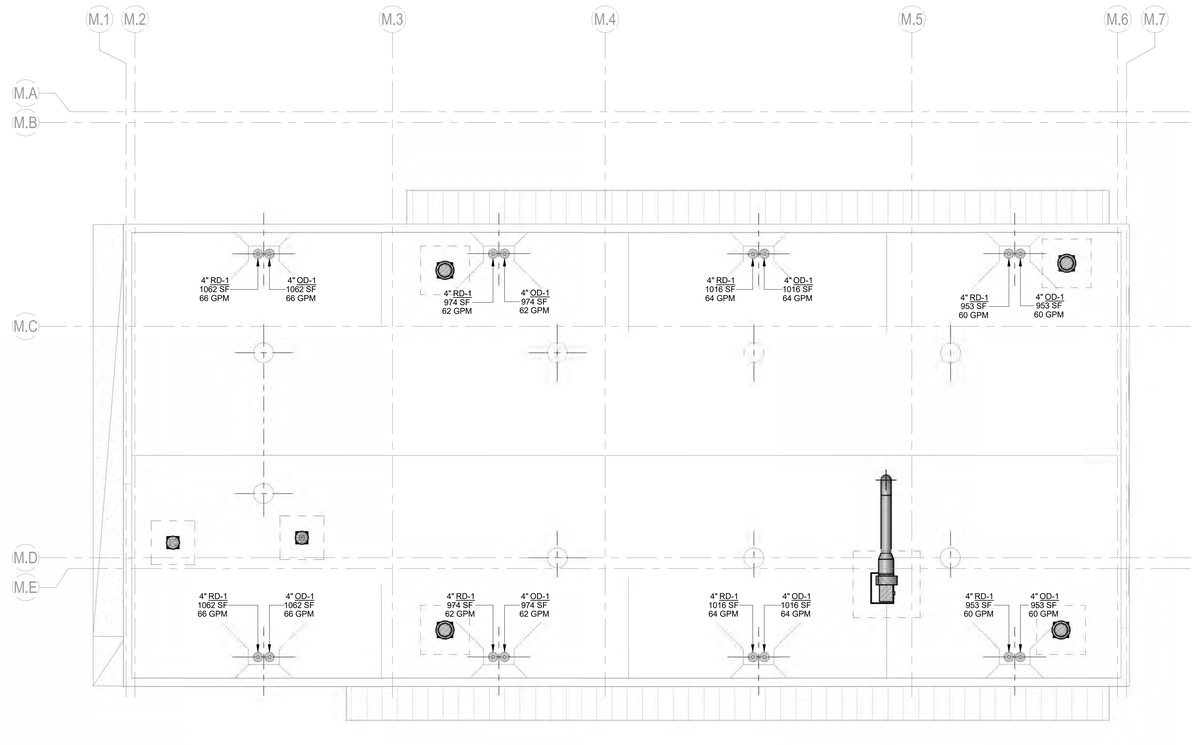
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f

TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:05:28 PM



1 PLUMBING ROOF PLAN - MECHANIC'S SHOP

1/8" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
Checker

Sheet Title:
PLUMBING ROOF PLAN - MECHANIC'S SHOP

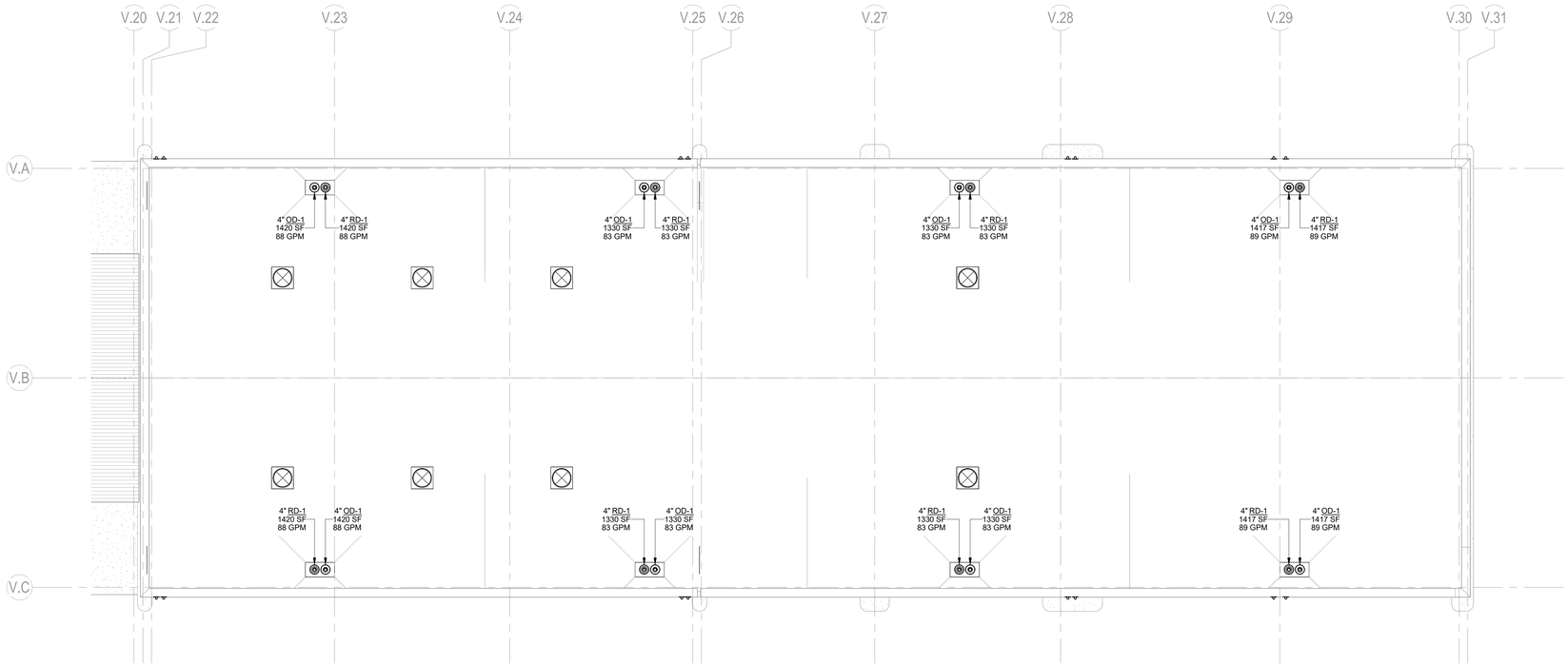
Drawing No.
P2.32

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:05:46 PM



1 PLUMBING ROOF PLAN - VEHICLE STORAGE BLDG

1/8" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
Checker

Sheet Title:
PLUMBING ROOF PLAN - VECHICLE STORAGE BLDG

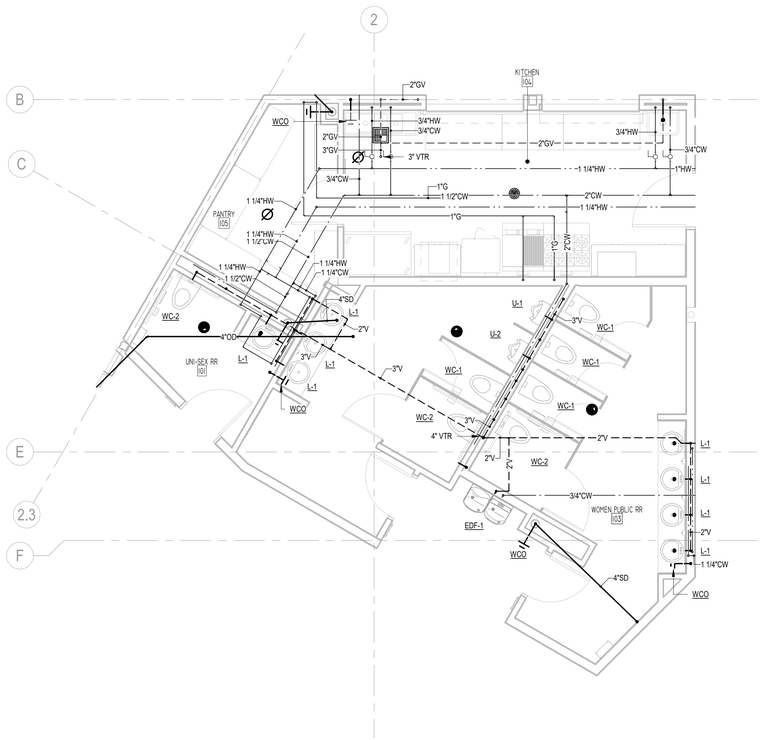
Drawing No.
P2.33

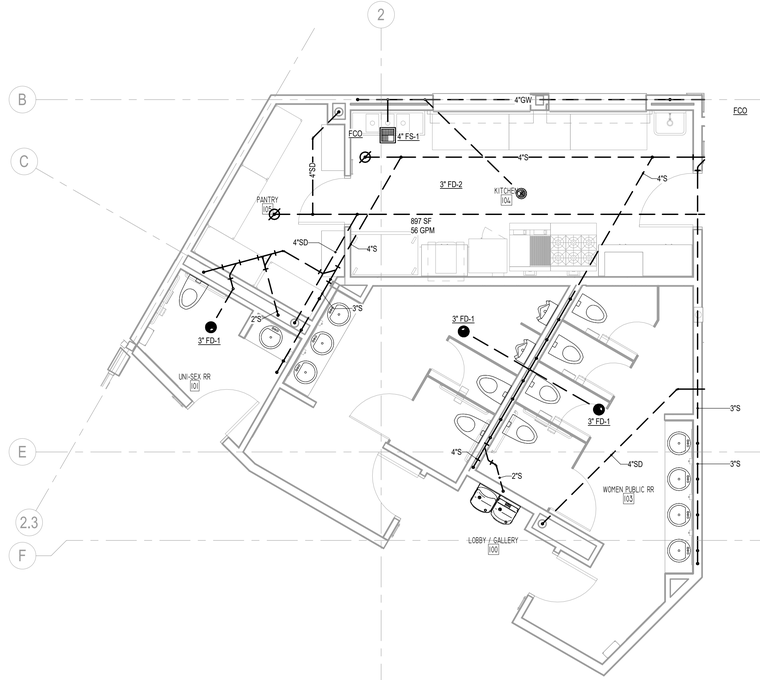
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:05:56 PM



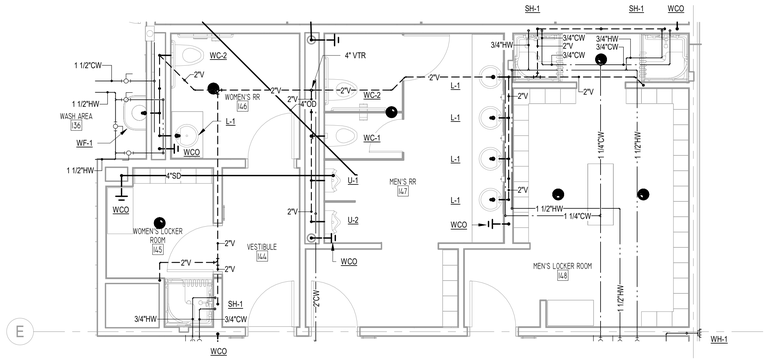


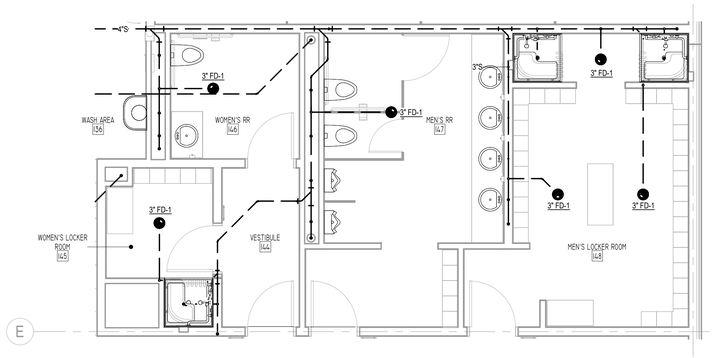
2 ENLARGED PLUMBING PLAN LEVEL 1 - ADMINISTRATION BLDG - UNISEX RR 101, KITCHEN 104, PUBLIC RRS 103/104

1/4" = 1'-0"

1 ENLARGED PLUMBING PLAN UNDERGROUND LEVEL - ADMINSTRATION BLDG - UNISEX RR 101, KITCHEN 104, PUBLIC RRS 103/104

1/4" = 1'-0"



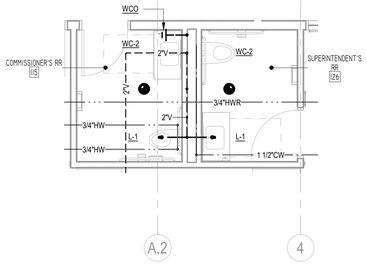


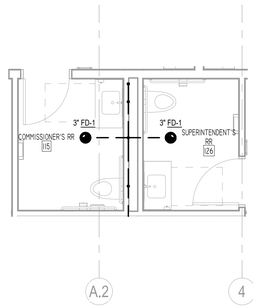
4 ENLARGED PLUMBING PLAN LEVEL 1 - ADMINISTRATION BLDG - RRS 146/147, LOCKER ROOM 148

1/4" = 1'-0"

3 ENLARGED PLUMBING PLAN UNDERGROUND LEVEL - ADMINSTRATION BLDG - RRS 146/147, LOCKER ROOM 148

1/4" = 1'-0"





6 ENLARGED PLUMBING PLAN LEVEL 1 - ADMINISTRATION BLDG - RRS 115/126

1/4" = 1'-0"

5 ENLARGED PLUMBING PLAN UNDERGROUND LEVEL - ADMINSTRATION BLDG - RRS 115/126

1/4" = 1'-0"

5/4/2026 5:06:29 PM

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

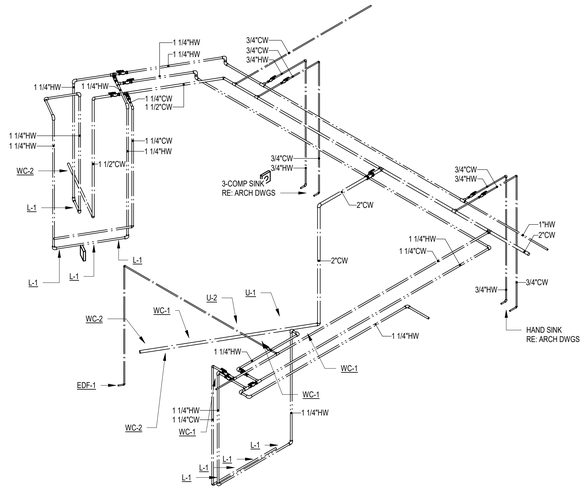
Sheet Title:
ENLARGED PLUMBING PLANS - ADMINISTRATION BLDG

Drawing No.
P3.01

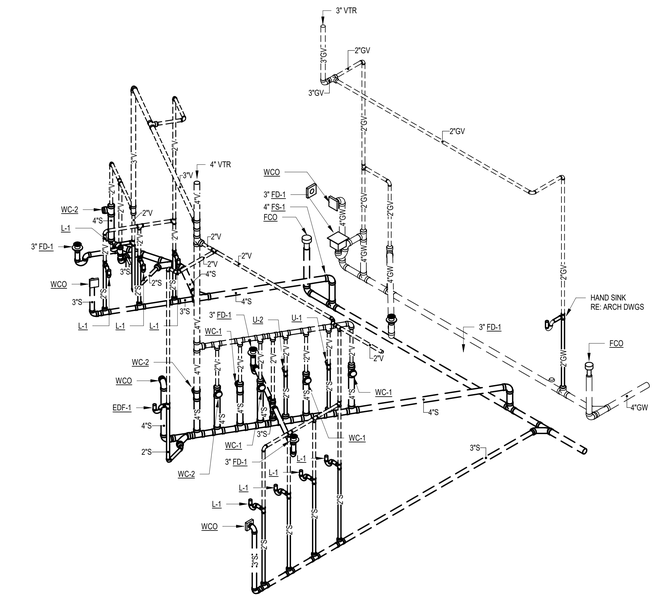
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

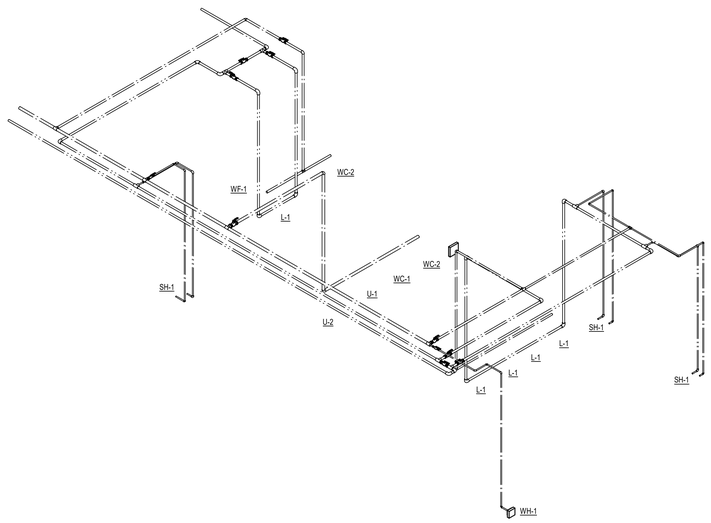
NB	TD	EM	DW	ZB



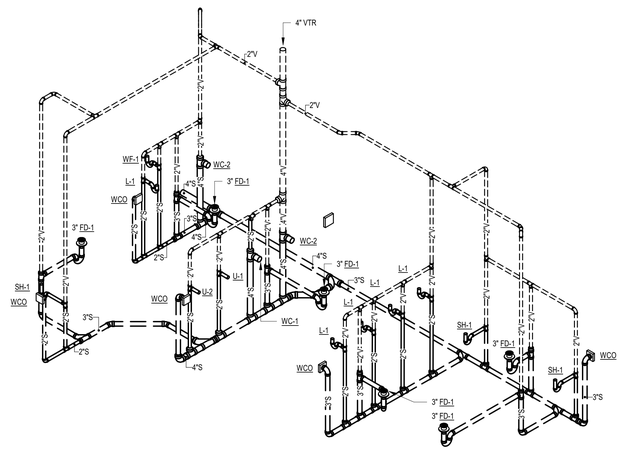
2 WATER RISER - ADMIN BLDG - PUBLIC RRS 102/103 & KITCHEN 104



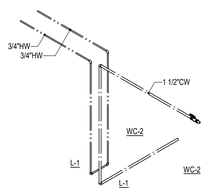
1 SANITARY & VENT RISERS - ADMIN BLDG - PUBLIC RRS 102/103 & KITCHEN 104



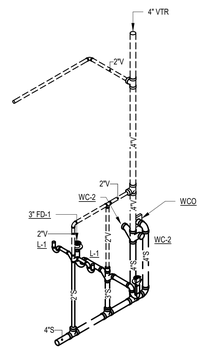
4 WATER RISER - ADMIN BLDG - RRS 146/147 & LOCKER ROOM



3 SANITARY & VENT RISERS - ADMIN BLDG - RRS 146/147 & LOCKER ROOM 148



6 WATER RISER - ADMIN BLDG - RRS 115/126



5 SANITARY & VENT RISERS - ADMIN BLDG - RRS 115/126

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
PLUMBING RISERS - ADMINSTRATION BLDG

Drawing No.
P4.01

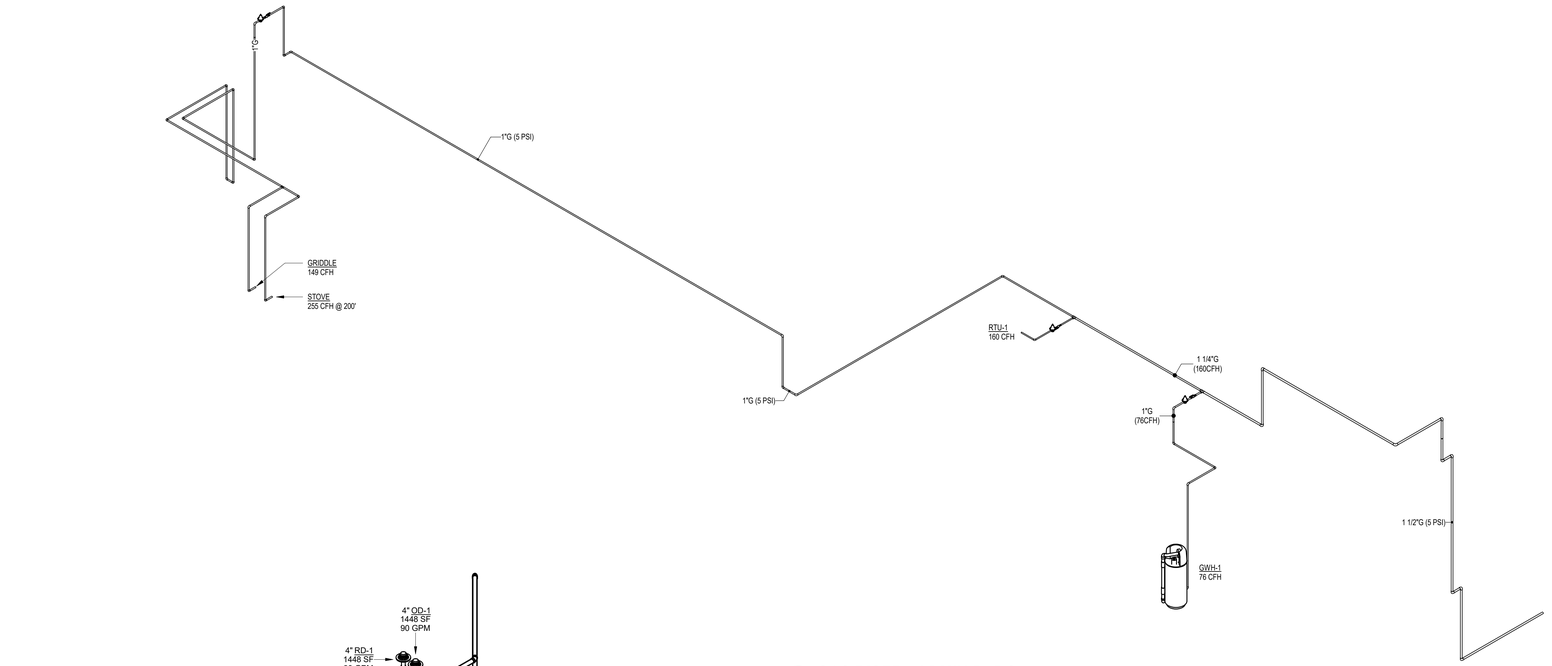
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f

TBPE Firm Registration No. 13002

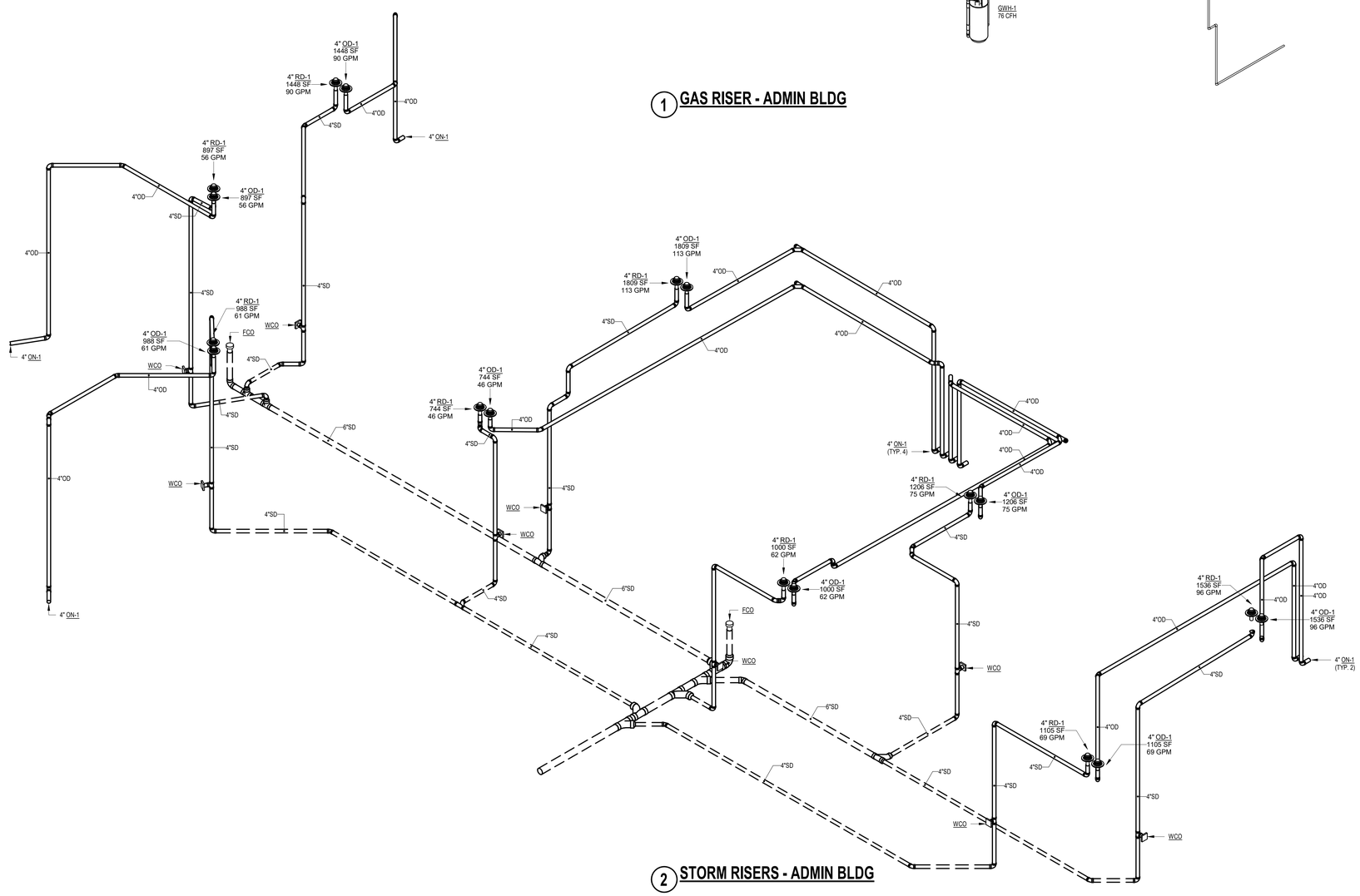
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:06:44 PM



1 GAS RISER - ADMIN BLDG



2 STORM RISERS - ADMIN BLDG

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
Checker

Sheet Title:
PLUMBING RISERS - ADMINSTRATION BLDG

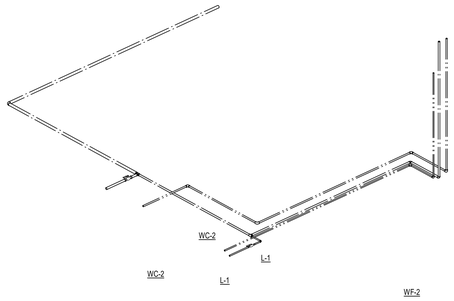
Drawing No.
P4.02

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

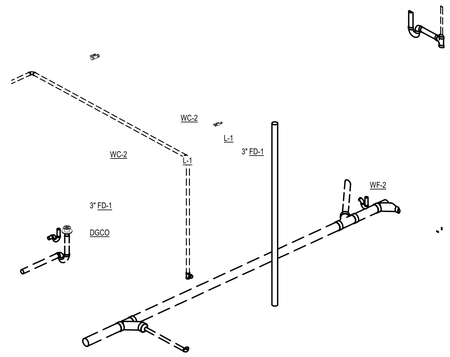
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

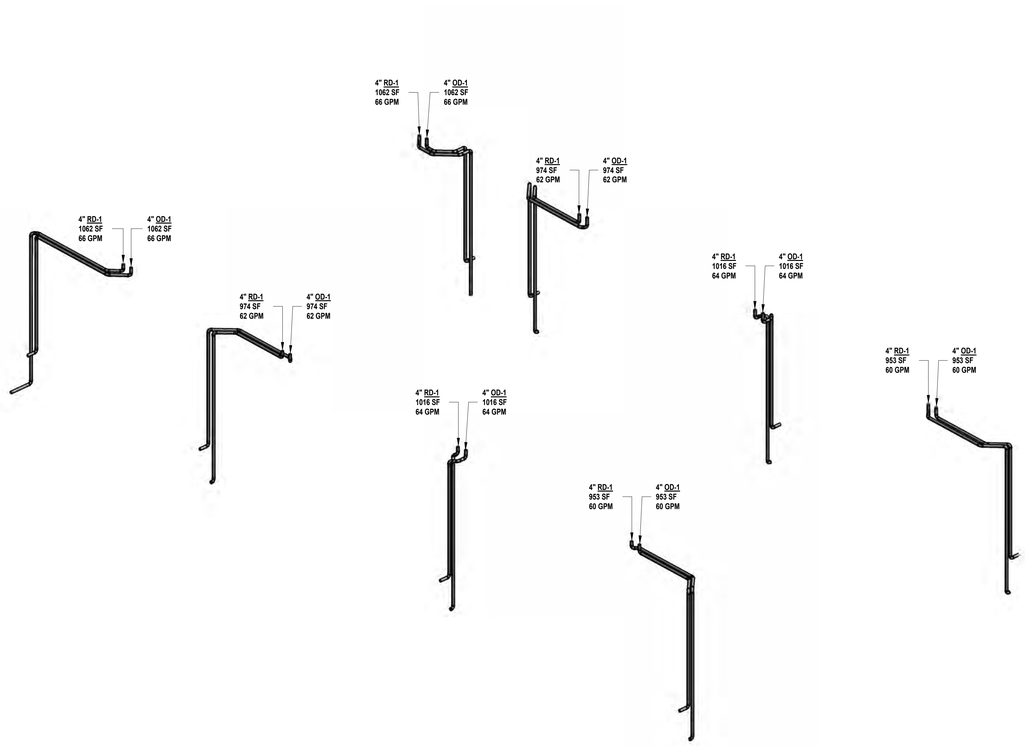
5/4/2026 5:06:54 PM



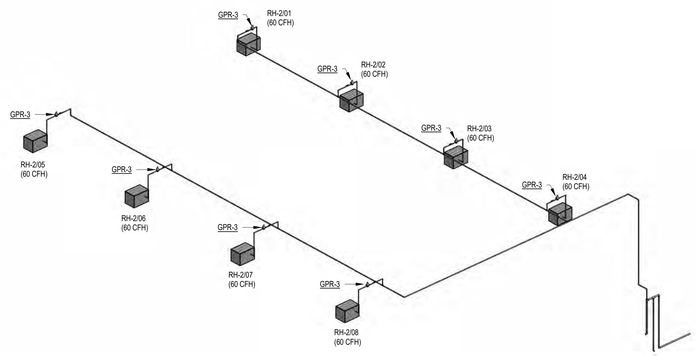
2 WATER RISER - MECHANIC'S SHOP - RRS 209/210



1 SANITARY & VENT RISERS - MECHANIC'S SHOP - RRS 209/210



4 STORM RISER - MECHANIC'S SHOP



3 GAS RISER - MECHANIC'S SHOP

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING. PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
Checker

Sheet Title:
PLUMBING RISERS - MECHANIC'S SHOP

Drawing No.
P4.03

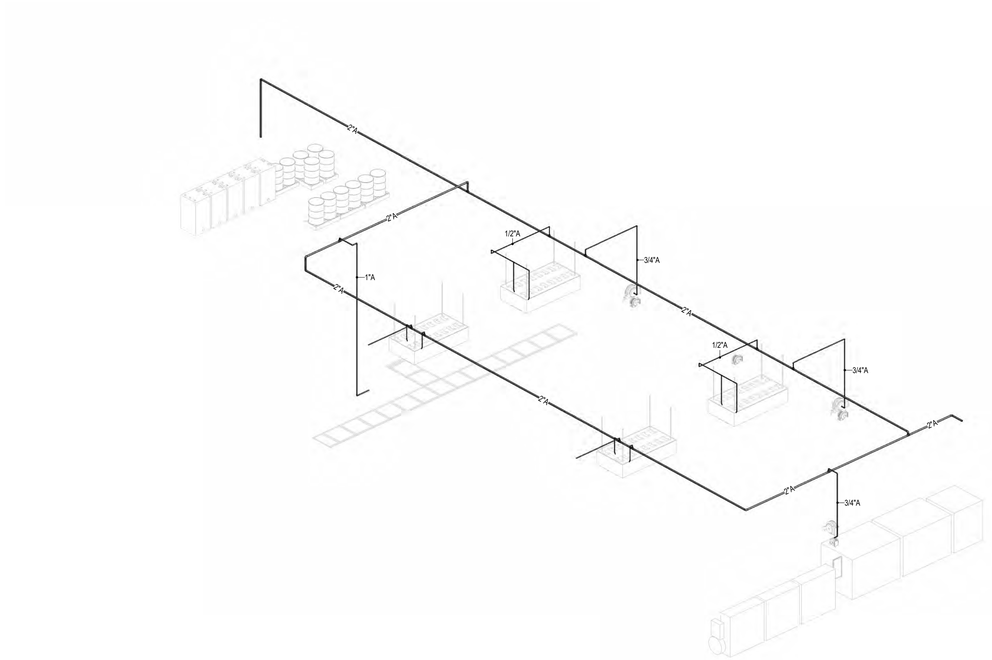
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f

TBPE Firm Registration No. 13002

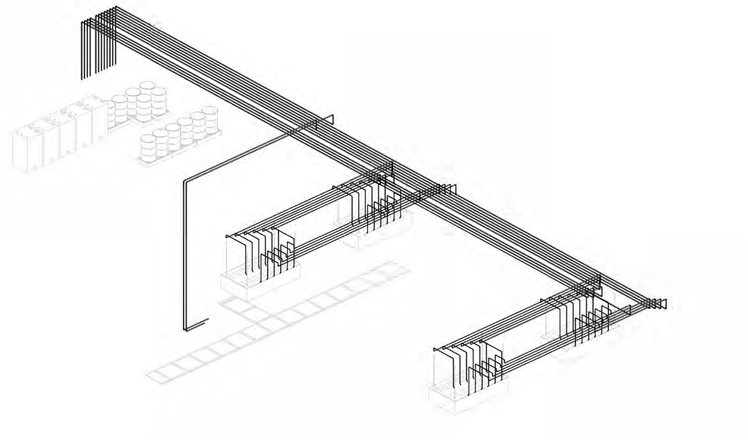
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:07:08 PM



2 COMPRESSED & DRYER AIR RISER - MECHANIC'S SHOP



1 MOTOR OIL, TRANSMISSION FLUID, ANTIFREEZE, GEAR LUBE, & GREASE RISERS - MECHANIC'S SHOP

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING, PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
Checker

Sheet Title:
PLUMBING RISERS - MECHANIC'S SHOP

Drawing No.
P4.04

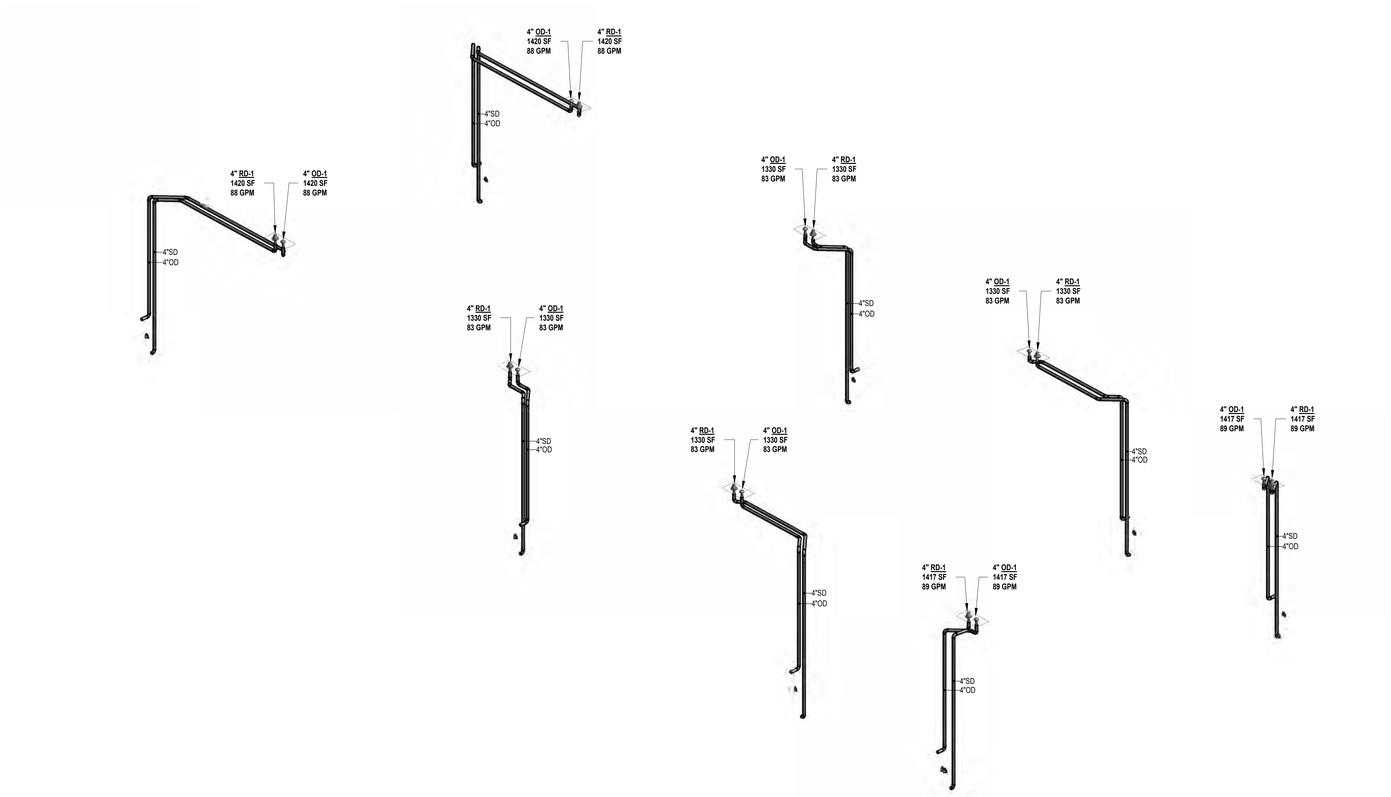
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f

TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:07:33 PM



1 STORM RISER - VECHICLE STORAGE BLDG

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade
ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
Checker

Sheet Title:
PLUMBING RISERS - VECHICLE STORAGE BLDG

Drawing No.

P4.05

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f

TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:07:45 PM

FIRE PROTECTION FIXTURE SCHEDULE

PLAN MARK	DESCRIPTION
FIRE DEPARTEMENT CONNECTION FDC-1	4" X 5" 30 DEGREE STORZ INLET, T6160 ALUMINUM ADAPTER. 250 PSI RATED, FEMALE NPT RIGID ROCKER LUG OUTLET, NITRILE GASKET, STAINLESS STEEL LOCKING LEVER, STAINLESS STEEL INTERNAL SCREEN, KNOX LOCKING CAP, ADAPTER, AND PLATE SHALL BE POLISHED CHROME WITH TRIM AND LETTERING TO READ "AUTO SPRINKLER STANDPIPE". CONNECTIONS SHALL BE APPROVED BY LOCAL FIRE MARSHALL PRIOR TO ORDERING OR INSTALLATION. POTTER ROEMER #6352.

NOTE:

1. ALL VALVES SHALL BE PRV TYPE AND TAMPER RESISTANT.

SPRINKLER HEAD NOTES:

1. REFER TO SPECIFICATIONS 21 13 13 WET PIPE SPRINKLER SYSTEM AND 21 13 16 DRY PIPE SPRINKLER SYSTEM FOR SPRINKLER HEAD TYPES.
2. ELEVATOR MACHINE ROOM AND SHAFTS - INSTITUTIONAL PENDENT/ SIDEWALL/ GUARDS.
3. ELECTRICAL, MECHANICAL, IDF, PBX ROOMS - INSTITUTIONAL PENDENT/ SIDEWALL/ GUARDS. INTERMEDIATE TEMP RANGE HEADS.

GREASE INTERCEPTOR SCHEDULE

CALCULATIONS

Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME:	TYPE:	DIMENSIONS:	QTY	CU IN	FLOW RATE
3 Compartment Sink	3 Compartment Sink	21" x 21" x 14" (3)	1	18,522	30.07 GPM
Floor Drain	Floor Drain	N/A	2	N/A	0 GPM
Hand Sink	Hand Sink	10" x 14" x 5"	1	700	1.14 GPM
Total					**31.2 GPM**

Step 2: Grease Production

Number of Seats x 4 turns per seat x Grease Production Value x Days between pump-out = Grease output

Number of seats in facility: 128
Grease production value: 0.0325 lbs per serving (Cafeteria - Heat & Serve: Medium / Flatware)
Days between pump-outs: 90 days

128 x 4 x 0.0325 x 90 = 1497.6 lbs of FOG

PLAN MARK	MAKE & MODEL #	DESCRIPTION
GREASE INTERCEPTOR GT-1	SCHIER GB-250	HYDROMECHANICAL POLYETHYLENE GREASE INTERCEPTOR, 277 US GAL LIQUID CAPACITY, 1895 LBS GREASE CAPACITY @ 100 GPM, 7'-3" LONG x 2'-9" WIDE x 3'-10" HEIGHT WITH HEAVY DUTY TRAFFIC GAS TIGHT COVERS AND RISERS.
SAMPLING WELL SW-1	SCHIER SV-10	POLYETHYLENE SAMPLING WELL WITH HEAVY DUTY TRAFFIC GAS TIGHT COVERS AND RISERS. PIPE SIZE IS 4".

OIL WATER SEPARATOR SCHEDULE

CALCULATIONS

OIL SEPARATOR CALCULATIONS

SERVICE AREA	6200 SQ. FT.
OIL SEPARATOR SIZING	
6.0 CU. FT. FOR FIRST 100 SQ. FT. OF DRAINAGE AREA	6 CU. FT.
1.0 CU. FT. FOR EACH ADDITIONAL 100 SQ. FT. OF DRAINAGE AREA	61 CU. FT.
CU. FT. REQUIREMENT	67 CU. FT.
GAL. REQUIREMENT	502 GAL

Sizing methodology complies with UPC section 1017.2 and IPC section 1003.4.2.2.

PLAN MARK	MAKE & MODEL #	DESCRIPTION
SAND/OIL/ WATER SEPARATOR SOS-1	STRIEM OT-750	750 US GAL LIQUID CAPACITY, 323 US GAL OIL CAPACITY, 295 US GAL SOLIDS CAPACITY, 1253 LBS. 105" LONG x 56" WIDE x 65" HEIGHT. POLYETHYLENE CONSTRUCTION WITH CAST IRON COVERS.
SAMPLING WELL SW-2	STRIEM INSPECTOR-6	POLYETHYLENE SAMPLING PORT WITH FIELD ADJUSTABLE MANHOLE RISER SYSTEM AND CAST IRON COVER. 6" INLET AND OUTLET.

EQUIPMENT SCHEDULE

TYPE	MANUFACTURER	DESCRIPTION
GAS WATER HEATER GWH-1 (ADMINISTRATION BLDG)	A.O. SMITH BTX-80	CYCLONE HE POWER VENT 50 GALLON GAS FIRED DOMESTIC WATER HEATER, 104 GPH RECOVERY @ 80°F RISE, 76 MBH
CIRCULATOR PUMP CP-1 (ADMINISTRATION BLDG)	GRUNDFOS MAGNA3 32-60-GF-N	STAINLESS STEEL CONSTRUCTED, FLANGED PUMP WITH SPEED CONTROLLED BY INTEGRAL VARIABLE FREQUENCY DRIVE. DIFFERENTIAL PRESSURE AND TEMPERATURE SENSOR INCORPORATED IN THE PUMP. NOMINAL DUTY POINT: 4 GPM AT 6 FEET OF HEAD. FIELD SET TO REQUIRED FLOW RATE. ELECTRICAL POWER: 106W, 115V/60HZ/1PH
EXPANSION TANK ET-1 (ADMINISTRATION BLDG)	AMTROL ST-5	2.0 GALLON TANK WITH .73 MAX ACCEPTANCE FACTOR, No. 125 CARBON STEEL SHELL AND FDA GRADE BUTYL BLADDER WITH STAINLESS STEEL WATER AND CHARGE FITTING CONNECTIONS.
ELECTRIC WATER HEATER EWH-1 (MECHANIC'S SHOP)	A.O. SMITH DEL-10	10 GALLON ELECTRIC LOW BOY STORAGE TANK WATER HEATER. SINGLE NON-SIMULTANEOUS 1.5 KW ELEMENT, 208V/3PH/60Hz. 8 GPH RECOVERY @ 80°F RISE.
CIRCULATOR PUMP CP-2 (MECHANIC'S SHOP)	GRUNDFOS MAGNA3 32-60 GF-N	STAINLESS STEEL CONSTRUCTED, FLANGED PUMP WITH SPEED CONTROLLED BY INTEGRAL VARIABLE FREQUENCY DRIVE. DIFFERENTIAL PRESSURE AND TEMPERATURE SENSOR INCORPORATED IN THE PUMP. NOMINAL DUTY POINT: 4 GPM AT 5 FEET OF HEAD. FIELD SET TO REQUIRED FLOW RATE. ELECTRICAL POWER: 106W, 115V/60HZ/1PH
EXPANSION TANK ET-2 (MECHANIC'S SHOP)	AMTROL ST-5	2.0 GALLON TANK WITH .73 MAX ACCEPTANCE FACTOR, No. 125 CARBON STEEL SHELL AND FDA GRADE BUTYL BLADDER WITH STAINLESS STEEL WATER AND CHARGE FITTING CONNECTIONS.
AIR COMPRESSOR AC-1 & AC-2 (MECHANIC'S SHOP)	INGERSOLL RAND No. 2545E10-P	120 GALLON VERTICAL RECEIVER, TWO STAGE AIR COMPRESSOR. 10 HP AND 35.0 CFM AT 175 PSI MAXIMUM PRESSURE. PROVIDE WITH INGERSOLL RAND MOTOR STARTER KIT. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
AIR COMPRESSOR AD-1 (MECHANIC'S SHOP)	INGERSOLL RAND No. D170IT	AIR DRYER (0.71 KW) CAPABLE OF 100 CFM AT 100 PSI. COORDINATE 120V/1PH POWER WITH ELECTRICAL CONTRACTOR.
SUMP PUMP SP-1 (MECHANIC'S SHOP)	WEIL PUMPS No. 1432	CAST IRON SUMP PUMP, 50 GPM @ 23' HEAD, 1/2 HP, 115V/1PH/60Hz, 3450 RPM, 30"x30"x30" PIT WITH GRATE (REFER TO STRUCTURAL FOR PIT DETAILS). PROVIDE ON/OFF FLOATS, CHECK VALVE IN VERTICAL, AND UNIONS ON EITHER SIDE OF THE CHECK VALVE. PROVIDE WITH REMOTE ALARM PANEL TO BE MOUNTED IN MEZZANINE.

GAS PRESSURE REGULATORS

PLAN MARK	GAS QUANTITY C.F.H.	PRESSURE		LOCATION	REF: DWG.	SERVICE
		INLET	OUTLET			
GPR-1	76	5 PSIG	10" W.C.	ROOF OF ADMINISTRATION BLDG	P2.31	GAS WATER HEATER: GWH-1
GPR-2	76	5 PSIG	7" W.C.	ROOF OF ADMINISTRATION BLDG	P2.31	STOVE & GRIDDLE
GPR-3	60	5 PSIG	7" W.C.	MECHANIC SHOP 212	P2.12	RADIANT HEATERS: RH-2/01 THRU RH-2/08
GPR-4	721	5 PSIG	10" W.C.	PRESSURE WASHER ROOM 315	P2.13	VEHICLE PRESSURE WASHER
GPR-5	200	5 PSIG	10" W.C.	ROOF OF ADMINISTRATION BLDG	P2.31	ROOFTOP UNIT: RTU-1

NOTES:
1. COORDINATE FINAL REGULATOR SELECTIONS WITH FINAL EQUIPMENT BEING PROVIDED. MAKE ADJUSTMENTS AS REQUIRED.
2. PROVIDED MAXITROL 325 SERIES (OR EQUAL PER SPEC 21 11 21) GAS PRESSURE REGULATOR TO REGULATE PRESSURES LISTED OR PER MANUFACTURER'S RECOMMENDATION.
3. ALL GAS PRESSURE REGULATORS SHALL MEET THE REQUIREMENTS OF ANSI Z21.80 (NFPA 54:8.2).
4. PROVIDE REGULATOR VENT LINE FOR EACH REGULATOR INDEPENDENTLY AND ROUTE EACH LINE FULL SIZE TO THE OUTDOORS.
5. TERMINATE REGULATOR VENT LINES MINIMUM OF 30'-0" FROM ANY FRESH AIR INTAKES.
6. TERMINATE REGULATOR VENT LINES WITH ELBOWS TURNED DOWN AND INSECT SCREENS.
7. REGULATORS LOCATED INDOORS SHALL NOT BE INSTALLED CONCEALED OR ABOVE A CEILING. ALL INDOOR REGULATORS MUST BE LOCATED BELOW FINISHED CEILINGS OR IN EXPOSED AREAS.

TANKS

PLAN MARK	DESCRIPTION
ANTIFREEZE AF-1	55 GALLON DRUM (N.I.C.) ANTIFREEZE (GREEN TYPE) WITH AIR DIAPHRAGM PUMP, MOUNTED WITH WALL BRACKET.
ANTIFREEZE AF-2	55 GALLON DRUM (N.I.C.) ANTIFREEZE (RED TYPE) WITH AIR DIAPHRAGM PUMP, MOUNTED WITH WALL BRACKET.
ANTIFREEZE AF-3	55 GALLON DRUM (N.I.C.) ANTIFREEZE (DEXCOOL TYPE) WITH AIR DIAPHRAGM PUMP, MOUNTED WITH WALL BRACKET.
OIL STORAGE TANK MOT-1	500 GALLON DOUBLE WALL WITH FILL/SPILL BOX.
TRANSMISSION FLUID STORAGE TANK TRT-1	350 GALLON DOUBLE WALL WITH FILL/SPILL BOX.
GREASE GRP-1	55 GALLON DRUM (N.I.C.)
WASTE OIL WOT-1	500 GALLON DOUBLE WALL STEEL TANK WITH APPROPRIATE FITTINGS, VENTS AND SPILL BOX.
GREASE LUBE GRL-1	55 GALLON DRUM (N.I.C.)

TANK MONITORING SYSTEM

PLAN MARK	DESCRIPTION
TANK MONITOR CONTROLLER TMC-1	FLOAT GAUGES IMPULSE RADAR GAUGES CONTROLLER UNIT FOR 1-20 TANKS WITH TANK FARM SOFTWARE (CONFIRM LOCATION WITH OWNER PRIOR TO INSULATION)

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOL	FIXTURE UNITS	SIZE
WHA-A	1-11	1/2" NPT
WHA-B	12-32	3/4" NPT
WHA-C	33-60	1" NPT
WHA-D	61-113	1 1/4" NPT
WHA-E	114-154	1 1/2" NPT
WHA-F	155-330	2" NPT

ASME 1998 PRE-CHARGED SHOCK ARRESTOR FITTING SIZED AND LOCATED IN ACCORDANCE WITH P.D.I. STANDARD. WH-201 SHOCK ARRESTORS SHALL HAVE LIFETIME WARRANTY AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE SUITABLE FOR INSTALLATION WITHOUT REQUIREMENT FOR ACCESS DOORS.
SHOWER/TUB - 2 FU
WATER CLOSET (TANK) - 5 FU
WATER CLOSET (FV) - 10 FU
URINAL - 5 FU
LAVATORY - 2 FU
DRINKING FOUNTAIN - 2 FU
MOP SINK - 4 FU
SINK/HAND SINK - 3 FU
3 COMPARTMENT SINK - 12 FU

PUMPS

PLAN MARK	DESCRIPTION
ANTIFREEZE AFP-1	BALCRANK No. 1120-006, 2" DIAPHRAGM AIR PUMP BALCRANK No. 4410-020, WALL MOUNT DIT W/ HOSE BALCRANK No. 3120-023, PRESSURE RELIEF VALVE
MOTOR OIL MOP-1	BALCRANK No. 1113O-011, PANTHER 5:1 AIR PUMP BALCRANK No. 4410-023, HOSE & TUBE KIT BALCRANK No. 3260-034, 4" FILTER REGULATOR BALCRANK No. 3230-002, FLUID SHUT-OFF VALVE BALCRANK No. 3270-003, 4" AIR COUPLER BALCRANK No. 3270-039, 4" AIR NIPPLE BALCRANK No. 3230-003, 4" AIR SHUT-OFF VALVE BALCRANK No. 3120-019, PRESSURE RELIEF KIT
GREASE GRP-1	BALCRANK No. 1150-006, PANTHER 50:1 AIR PUMP KIT INCLUDES: ACCESSORY KIT, FLUID HOSE, AIR HOSE, DRUM COVER AND FOLLOWER PLATE BALCRANK No. 3260-034, 4" FILTER REGULATOR BALCRANK No. 3230-001, 2" HP SHUT-OFF VALVE BALCRANK No. 3230-003, 4" AIR SHUT-OFF VALVE
TRANSMISSION FLUID TRP-1	BALCRANK No. 1130-010, PANTHER 3:1 AIR PUMP BALCRANK No. 3260-034, 4" FILTER REGULATOR BALCRANK No. 3230-002, 2" FLUID SHUT-OFF VALVE BALCRANK No. 3230-003, 4" AIR SHUT-OFF VALVE BALCRANK No. 3120-019, PRESSURE RELIEF KIT
GEAR LUBE GLP-1	BALCRANK No. 1130-011, PANTHER 5:1 AIR PUMP BALCRANK No. 3260-034, 4" FILTER REGULATOR BALCRANK No. 3230-002, 2" FLUID SHUT-OFF VALVE BALCRANK No. 3230-003, 4" AIR SHUT-OFF VALVE BALCRANK No. 3120-019, PRESSURE RELIEF KIT
WASTE OIL PIT WOP-1	BALCRANK No. 4140-001, ROLLING DRAIN PAN BALCRANK No. 1121-001, WASTE OIL EVAC KIT BALCRANK No. 3260-034, 4" FILTER REGULATOR BALCRANK No. 3230-003, 4" AIR SHUT-OFF VALVE BALCRANK No. 4140-013, EVACUATION HOSE

HOSE REELS

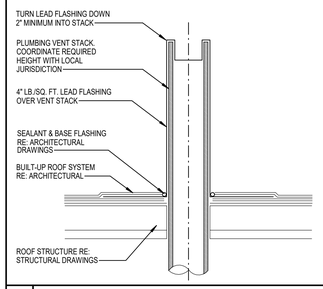
PLAN MARK	DESCRIPTION
HOSE REEL HR-1 (TRANSMISSION FLUID)	BALCRANK CLASSIC 50'x3/8", PART No. 2110-011, CONTROL HANDLE No. 3330-38
HOSE REEL HR-2 (MOTOR OIL)	BALCRANK CLASSIC 50'x3/8", PART No. 2110-011, CONTROL HANDLE No. 3330-38
HOSE REEL HR-3 (ANTIFREEZE #3)	BALCRANK CLASSIC 50'x3/8", PART No. 2110-019, CONTROL HANDLE No. 3340-007
HOSE REEL HR-4 (ANTIFREEZE #2)	BALCRANK CLASSIC 50'x3/8", PART No. 2110-019, CONTROL HANDLE No. 3340-007
HOSE REEL HR-5 (ANTIFREEZE #1)	BALCRANK CLASSIC 50'x3/8", PART No. 2110-019, CONTROL HANDLE No. 3340-007
HOSE REEL HR-6 (GEAR LUBE)	BALCRANK CLASSIC 50'x1/2", PART No. 2110-011, CONTROL HANDLE No. 3330-038
HOSE REEL HR-7 (GREASE)	BALCRANK CLASSIC 50'x1/2", PART No. 2110-007, CONTROL HANDLE No. 3310-020
HOSE REEL HR-8 (COMPRESSED AIR)	BALCRANK CLASSIC 50'x3/8", PART No. 2110-019
HOSE REEL HR-9 (WATER)	BALCRANK CLASSIC 50'x1/2", PART No. 2120-005

PLUMBING FIXTURE SCHEDULE

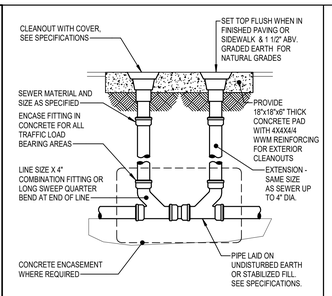
PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WST & VENT		DRAIN	CW	HW	
WATER CLOSET WC-1	4"	2"	4"	1"	---	SLOAN ST-2459 WALL MOUNT WATER CLOSET IN WHITE VITREOUS CHINA. PROVIDE SLOAN ROYAL 111 ESS-1.1-CP-TMO SENSORED, AC HARDWIRE POWERED, TOP SPUD FLUSH VALVE (1.1 GPF) IN POLISHED CHROME WITH MECHANICAL MANUAL OVERRIDE. ALL HARDWIRE ATTACHMENTS BACK TO WALL ARE TO BE DIRECTLY BEHIND THE FLUSH VALVE OR EXTREMELY TIDY WITH MINIMAL EXPOSED CORD, CONDUIT, ETC. VISIBLE. PROVIDE ZURN WATER CLOSET CARRIER AND BEMIS COMMERCIAL #1955SSCT OPEN FRONT LESS COVER TOILET SEAT WITH SELF-SUSTAINING CHECK HINGES IN WHITE. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
WATER CLOSET WC-2	4"	2"	4"	1"	---	SAME AS WC-1 EXCEPT WITH TRIM AS REQUIRED FOR ADA USE. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
URINAL U-1	2"	2"	2"	3/4"	---	SLOAN SU-1009 WALL MOUNT URINAL IN WHITE VITREOUS CHINA, PROVIDE SLOAN ROYAL 186 ESS-0.125-CP-TMO-24V SENSORED, AC HARDWIRE POWERED, TOP SPUD FLUSH VALVE (0.125 GPF) IN POLISHED CHROME WITH MECHANICAL MANUAL OVERRIDE. ALL HARDWIRE ATTACHMENTS BACK TO WALL ARE TO BE DIRECTLY BEHIND THE FLUSH VALVE OR EXTREMELY TIDY WITH MINIMAL EXPOSED CORD, CONDUIT, ETC. VISIBLE. PROVIDE ZURN URINAL CARRIER. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
URINAL U-2	2"	2"	2"	3/4"	---	SAME AS U-1 EXCEPT WITH TRIM AS REQUIRED FOR ADA USE. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
LAVATORY L-1	2"	2"	2"	1/2"	1/2"	SLOAN SS-3001 OVAL UNDERMOUNT SINK IN WHITE VITREOUS CHINA WITH OVERFLOW. PROVIDE SLOAN SF-2200-4-PLG-TEE-CP-0.35GPM-MLM-FCT (0.35 GPM) SENSORED, AC HARDWIRE POWERED FAUCET TO BE COUNTER MOUNTED IN POLISHED CHROME FINISH. PROVIDE GRID STRAINER, MCGUIRE CAST BRASS P-TRAP, SS BRAIDED SUPPLY LINES, ANGLE BALL STOPS, TMV-1 AND TRUEBRO WRAP INSULATION KIT FOR ADA.
SINK SK-1 (WELLNESS ROOM)	2"	2"	2"	1/2"	1/2"	ELKAY No. LRAD2521S5 "LUSTERTONE", 25" x 21-1/4" x 5-3/8" DEEP, DROP-IN STAINLESS STEEL BOWL WITH REAR CENTER DRAIN AND SINGLE CENTER HOLE DRILLED. PROVIDE CHICAGO FAUCET No. 436-ABCP GOOSENECK FAUCET WITH SINGLE LEVER (1.5 GPM) IN POLISHED CHROME TO BE DECK MOUNTED. PROVIDE ELKAY No. LK99 STRAINER, MCGUIRE CAST BRASS P-TRAP, STOPS, S.S. SUPPLIES, TMV-1, AND TRUEBRO INSULATION KIT.
SINK SK-2 (WORKROOM / BREAKROOM)	2"	2"	2"	3/4"	3/4"	ELKAY No. ELUHAD161655 "LUSTERTONE", 18-1/2" x 18-1/2" x 5-3/8" DEEP, UNDERCOUNTER STAINLESS STEEL BOWL WITH REAR CENTER DRAIN. PROVIDE CHICAGO FAUCET No. 434-ABCP GOOSENECK FAUCET WITH SINGLE LEVER HANDLE (1.5 GPM) AND PULL DOWN SPOUT IN POLISHED CHROME. PROVIDE ELKAY No. LK99 STRAINER, MCGUIRE CAST BRASS P-TRAP, STOPS, S.S. SUPPLIES, TMV-1, AND TRUEBRO INSULATION KIT.
SINK SK-3 (WORKROOM / KITCHENETTE, BULLPEN)	2"	2"	2"	1/2"	1/2"	ELKAY No. ELUHAD281655 "LUSTERTONE", 30-1/2" x 18-1/2" x 5-3/8" DEEP, UNDERCOUNTER STAINLESS STEEL BOWL WITH REAR CENTER DRAIN. PROVIDE CHICAGO FAUCET No. 434-ABCP GOOSENECK FAUCET WITH SINGLE LEVER HANDLE (1.5 GPM) AND PULL DOWN SPOUT IN POLISHED CHROME. PROVIDE ELKAY No. LK99 STRAINER, MCGUIRE CAST BRASS P-TRAP, STOPS, S.S. SUPPLIES, TMV-1, AND TRUEBRO INSULATION KIT.
WASH FOUNTAIN WF-1 (BULLPEN)	2"	2"	2"	1/2"	1/2"	BRADLEY MF2933-STD-IRP-LSD-TMA 'TERREON TRI-FOUNT' WALL MOUNT, INFRARED ACTIVATION TYPE WASH FOUNTAIN WITH TWO INTEGRAL LIQUID SOAP DISPENSERS AND NAVIGATOR THERMOSTATIC MIXING ASSEMBLY SET TO 95 °F.
WASH FOUNTAIN WF-2 (MECHANIC'S SHOP)	2"	2"	2"	3/4"	3/4"	BRADLEY CORP. No.SN2023-A-STD-IRP-NSD-TMA-BS-SH STAINLESS STEEL, 3-PERSON, WALL MOUNTED, INFRARED WASH FOUNTAIN WITH METERING FAUCETS, NAVIGATOR THERMOSTATIC MIXING VALVE SET TO 95°F, BACKSPLASH AND STAINLESS STEEL SHROUD.
SHOWER SH-1	2"	2"	2"	3/4"	3/4"	SYMMONS MODEL S6708TRM-1.5 'IDENTITY' SHOWER HEAD (1.5 GPM) AND VALVE TRIM WITH DIVERTER, S262BODY PRESSURE BALANCING VALVE, TEMPERATURE LIMITER SET TO 110 °F, INTEGRAL STOPS, 60" FLEXIBLE METAL HOSE, HAND SPRAY, AND DUAL CHECKS FOR BACKFLOW PREVENTION. PROVIDE COMFORT DESIGNS No. SST3838BF1.0 RRF-ANSI LEF 'ALCOVE' ONE PIECE SHOWER STALL WITH ADA COMPLIANT FOLDING SEAT, ADA GRAB BARS, AND CENTER DRAIN.
ELECTRIC WATER COOLER EWC-1	2"	2"	2"	3/4"	---	ELKAY LZ8WSSSMC STAINLESS STEEL BOTTLE FILLING STATION WITH FILTERED REFRIGERATED WALL MOUNTED WATER COOLER, 8 GPH CAPACITY TO 50 DEG. F. @ 90 DEG F. AMBIENT, 15W, 115/1/60 POWER. PROVIDE ZURN FLOOR MOUNTED PLATE TYPE CARRIER, ANGLE BALL STOP, MCGUIRE CAST BRASS P-TRAP, SS BRAIDED SUPPLY LINE, AND FILTER WITH 2 REPLACEMENT CARTRIDGES.
ELECTRIC DRINKING FOUNTAIN EDF-1	2"	2"	2"	3/4"	---	ELKAY LZSTL8WSVRSK STAINLESS STEEL BOTTLE FILLING STATION WITH BI-LEVEL FILTERED, REFRIGERATED WALL MOUNTED WATER COOLER, 8.0 GPH CAPACITY TO 50 DEG. F. @ 90 DEG AMBIENT, 370W, 115/1/60 POWER. PROVIDE ZURN CARRIER, ANGLE BALL STOP, MCGUIRE CAST BRASS P-TRAP, SS BRAIDED SUPPLY LINE, CHILLER, FILTER WITH 2 REPLACEMENT CARTRIDGES, CANE APRON ON UPPER FOUNTAIN, AND MOUNT BOTTLE FILLER ON LOWER FOUNTAIN.
MOP SINK MS-1	3"	2"	3"	3/4"	3/4"	FIAT TSBCR1000 FLOOR MOUNTED 28"x28"x12" STOCKTON TERRAZZO NEO BASIN WITH S.S. CAP. PROVIDE FIAT 830AA WALL MOUNTED FAUCET WITH TOP BRACE, VACUUM BREAKER, PAIL HOOK, MSG2424 WALL GUARDS, AND 832AA BRACKET AND HOSE.
THERMOSTATIC MIXING VALVE TMV-1	---	---	---	SEE PLANS	SEE PLANS	POWERS E-SERIES ADJUSTABLE POINT OF USE THERMOSTATIC MIXING VALVE, ASSE1016, WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE TO 110 °F.
WALL HYDRANT WH-1	---	---	---	3/4"	---	ZURN NO. Z-1300 RECESSED NON-FREEZE BRONZE WALL BOX, ANTI-SIPHON HYDRANT, INTEGRAL BACKFLOW PREVENTER, AND WITH LOOSE KEY OPERATOR & POLISHED NICKEL BRONZE LOCKING COVER. INSTALL WITH FACE FLUSH & SQUARE TO FINISHED WALL. SECURE WITH WALL CLAMP & SETSCREW. PROVIDE EXTENSION AS REQUIRED TO PLACE VALVED SEAT IN HEATED ROOM SPACE. MOUNT AT 18" A.F.F.
ROOF HYDRANT RH-1	---	---	---	3/4"	---	WOODFORD No. SRH-MS FREEZELESS ROOF HYDRANT, NO DRAIN LINE REQUIRED WITH ROOF DECK FLASHING ASSEMBLY AND ROOF DECK SUPPORT.

PLUMBING FIXTURE SCHEDULE

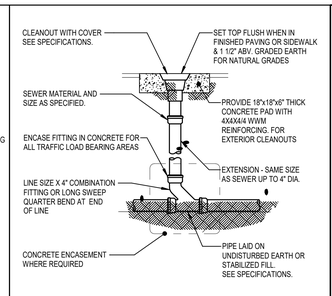
PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WST & VENT		DRAIN	CW	HW	
FLOOR DRAIN FD-1 (RESTROOMS)	SEE PLANS	2"	SEE PLANS	---	---	MI-FAB F1100-TS6-1 LAQUERED CAST IRON BODY DRAIN WITH 6" ROUND, NICKEL BRONZE, ADJUSTABLE STRAINER. PROVIDE PROSET TRAP GUARD.
FLOOR DRAIN FD-2 (LOCKER ROOMS)	SEE PLANS	2"	SEE PLANS	---	---	MI-FAB F1100-C6-1 LAQUERED CAST IRON BODY DRAIN WITH 6" ROUND, NICKEL BRONZE, HEEL PROOF, ADJUSTABLE STRAINER. PROVIDE PROSET TRAP GUARD.
FLOOR DRAIN FD-3 (KITCHEN)	SEE PLANS	2"	SEE PLANS	---	---	MI-FAB P3080 STAINLESS STEEL BODY DRAIN WITH 8" ROUND, STAINLESS STEEL, ADJUSTABLE STRAINER AND INCLUDED DEEP SUMP AND SEDIMENT BUCKET. PROVIDE PROSET TRAP GUARD.
FLOOR SINK FS-1	SEE PLANS	2"	SEE PLANS	---	---	MI-FAB FS1730-150 CAST IRON BODY, 12" SQUARE, HALF GRATE, 8" DEEP SINK WITH ACID RESISTANT PORCELAIN ENAMEL COATING. PROVIDE PROSET TRAP GUARD.
FLOOR SINK FS-2 (KITCHEN)	SEE PLANS	2"	SEE PLANS	---	---	MI-FAB FS1730-150-5 CAST IRON BODY, 12" SQUARE, HALF GRATE, 8" DEEP SINK WITH ACID RESISTANT PORCELAIN ENAMEL COATING AND SEDIMENT BUCKET. PROVIDE PROSET TRAP GUARD.
WALL CLEANOUT WCO	SEE PLANS	---	---	---	---	MIFAB C1460-RD CAST IRON CLEANOUT TEE WITH COUNTER-SUNK GASKET, WATERTIGHT THREADED PLUG AND ROUND STAINLESS STEEL SMOOTH ACCESS COVER.
GRADE CLEANOUT GCO	SEE PLANS	---	---	---	---	MIFAB C1100-XR-4 CAST IRON FLOOR CLEANOUT WITH ADJUSTABLE COVER AND PLUG AND EXTRA HEAVY DUTY DUCTILE IRON TOP ASSEMBLY. INSTALL IN 18" X 18" THICK CONCRETE PAD. PROVIDE WITH HEAVY DUTY TOP AND BODY RATED FOR TRAFFIC LOADS.
FLOOR CLEANOUT FCO	SEE PLANS	---	---	---	---	MIFAB C1100-R-3 CAST IRON FLOOR CLEANOUT WITH ADJUSTABLE COVER AND PLUG AND HEAVY DUTY STAINLESS STEEL TOP ASSEMBLY.
TRAFFIC RATED CLEANOUT TCO	SEE PLANS	---	---	---	---	MIFAB C1100-XR-4 CAST IRON FLOOR CLEANOUT WITH ADJUSTABLE COVER AND PLUG AND EXTRA HEAVY DUTY DUCTILE IRON TOP ASSEMBLY.
ROOF DRAIN RD-1	SEE PLANS	---	---	---	---	MIFAB R1200-B-E-U CAST IRON DRAIN AND DOME STRAINER WITH SUMP, REMOVABLE ALUMINUM DOME STRAINER, MEMBRANE FLANGE AND CLAMP WITH INTEGRAL GRAVEL STOP, ADJUSTABLE UNDERDECK CLAMP, ROOF SUMP RECEIVER, WATERPROOFING ANCHOR FLANGE, ADJUSTABLE EXTENSION, AND BALLAST GUARD EXTENSION.
OVERFLOW DRAIN OD-1	SEE PLANS	---	---	---	---	MIFAB R1200-B-E-U-R CAST IRON DRAIN AND DOME STRAINER WITH SUMP, REMOVABLE ALUMINUM DOME STRAINER, MEMBRANE FLANGE AND CLAMP WITH INTEGRAL GRAVEL STOP, ADJUSTABLE UNDERDECK CLAMP, ROOF SUMP RECEIVER, WATERPROOFING ANCHOR FLANGE, ADJUSTABLE EXTENSION, BALLAST GUARD EXTENSION, AND 2" EXTERNAL WATER DAM.
OVERFLOW NOZZLE ON-1	SEE PLANS	---	---	---	---	MIFAB R1960 STAINLESS STEEL DOWNSPOUT COVER WITH HINGED PERFORATED COVER.
TRENCH DRAIN TD-1	4"	2"	4"	---	---	MIFAB T2000-PB 8" INTERNAL WIDTH GLASS REINFORCED POLYMER NO EDGE RAIL CHANNEL WITH T200-PGC-13-GM GALVANIZED STEEL MESH GRATE - LOAD CLASS C FOR TRAFFIC LOADS AND ADA COMPLIANCE.
BACKFLOW PREVENTER BFP-1 (ADMINISTRATION BUILDING ENTRY)	---	---	---	2-1/2"	---	WATTS LF009M2-QT-FS REDUCED PRESSURE ZONE ASSEMBLY WITH INTERMEDIATE ATMOSPHERIC VENT DEDICATED TO BUILDING DOMESTIC WATER ENTRY. PROVIDE AIR GAP AND FULL SIZE INDIRECT DRAIN PIPED TO FLOOR DRAIN. MOUNT ON WALL 30"-48" A.F.F. INSTALL WITH SHUT-OFF VALVE AND FULL SIZE STRAINER ON INLET RISER AND SHUT-OFF VALVE ON OUTLET RISER.
BACKFLOW PREVENTER BFP-2 (MECHANIC'S SHOP ENTRY)	---	---	---	2"	---	WATTS LF009M2-QT-FS REDUCED PRESSURE ZONE ASSEMBLY WITH INTERMEDIATE ATMOSPHERIC VENT DEDICATED TO BUILDING DOMESTIC WATER ENTRY. PROVIDE AIR GAP AND FULL SIZE INDIRECT DRAIN PIPED TO FLOOR DRAIN. MOUNT ON WALL 30"-48" A.F.F. INSTALL WITH SHUT-OFF VALVE AND FULL SIZE STRAINER ON INLET RISER AND SHUT-OFF VALVE ON OUTLET RISER.
BACKFLOW PREVENTER BFP-3 (VEHICLE STORAGE BUILDING ENTRY)	---	---	---	1-1/4"	---	WATTS LF009M2-QT-FS REDUCED PRESSURE ZONE ASSEMBLY WITH INTERMEDIATE ATMOSPHERIC VENT DEDICATED TO BUILDING DOMESTIC WATER ENTRY. PROVIDE AIR GAP AND FULL SIZE INDIRECT DRAIN PIPED TO FLOOR DRAIN. MOUNT ON WALL 30"-48" A.F.F. INSTALL WITH SHUT-OFF VALVE AND FULL SIZE STRAINER ON INLET RISER AND SHUT-OFF VALVE ON OUTLET RISER.
BACKFLOW PREVENTER BFP-4 (ADMINISTRATION BUILDING ICE MACHINE)	---	---	---	3/4"	---	WATTS LF919-QT-FS REDUCED PRESSURE ZONE ASSEMBLY WITH INTERMEDIATE ATMOSPHERIC VENT DEDICATED TO ICE MACHINE. PROVIDE AIR GAP AND FULL SIZE INDIRECT DRAIN PIPED TO FLOOR DRAIN. MOUNT ON WALL 30"-48" A.F.F. INSTALL WITH SHUT-OFF VALVE AND FULL SIZE STRAINER ON INLET RISER AND SHUT-OFF VALVE ON OUTLET RISER. PROVIDE AQUAPURE ICE265-S FILTRATION SYSTEM WITH 2 REPLACEMENT CARTRIDGES.
BACKFLOW PREVENTER BFP-4 (ADMINISTRATION BUILDING ICE MACHINE)	---	---	---	3/4"	---	WATTS LF919-QT-FS REDUCED PRESSURE ZONE ASSEMBLY WITH INTERMEDIATE ATMOSPHERIC VENT DEDICATED TO ICE MACHINE. PROVIDE AIR GAP AND FULL SIZE INDIRECT DRAIN PIPED TO FLOOR DRAIN. MOUNT ON



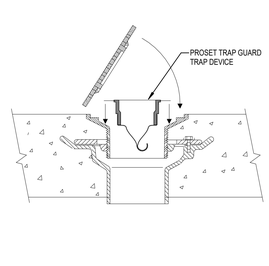
6 VENT THRU ROOF



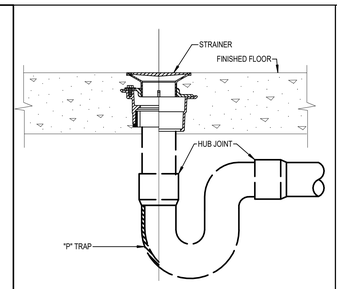
5 TWO-WAY CLEANOUT DETAIL



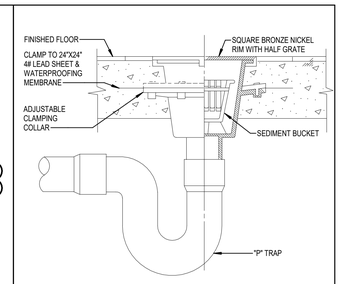
4 CLEANOUT DETAIL



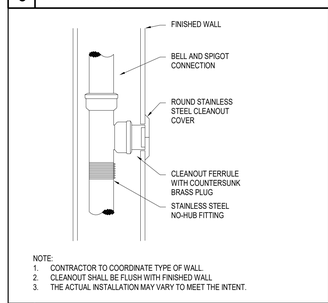
3 TRAP GUARD DEVICE (TG-1)



2 FLOOR DRAIN DETAIL

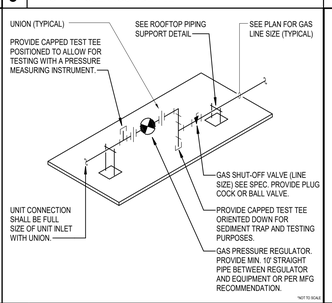


1 FLOOR SINK DRAIN DETAIL

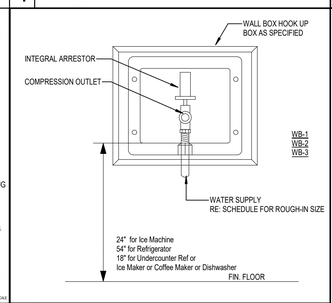


NOTE:
1. CONTRACTOR TO COORDINATE TYPE OF WALL.
2. CLEANOUT SHALL BE FLUSH WITH FINISHED WALL
3. THE ACTUAL INSTALLATION MAY VARY TO MEET THE INTENT.

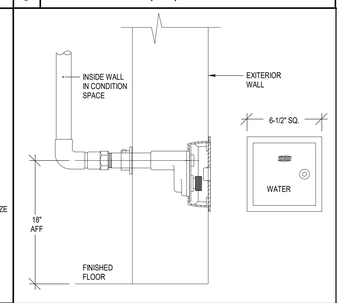
12 WALL CLEANOUT



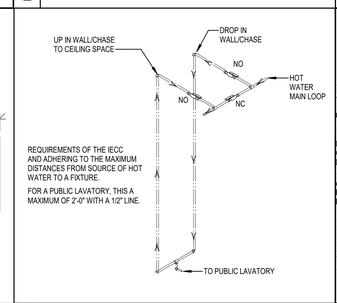
11 GAS REGULATOR ON ROOF



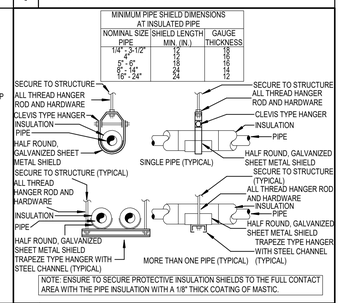
10 WALL SUPPLY BOX



9 WALL HYDRANT DETAIL

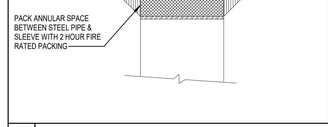


8 HOT WATER LOOP DETAIL W/ BYPASS

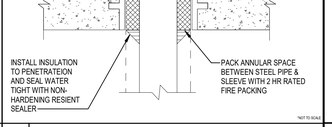


NOTE: ENSURE TO SECURE PROTECTIVE INSULATION SHIELDS TO THE FULL CONTACT AREA WITH THE PIPE INSULATION WITH A 1/8" THICK COATING OF MASTIC.

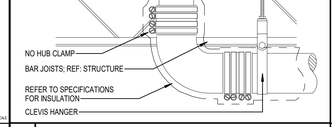
7 TYPICAL INSULATED PIPE-HANGER INSTALLATION



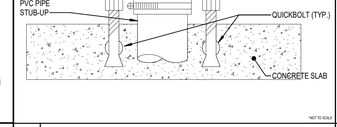
18 FIRE WALL PIPE PENETRATION



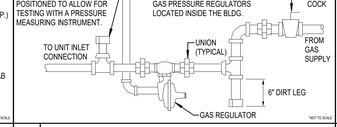
17 FIRE RATED FLOOR PENETRATION



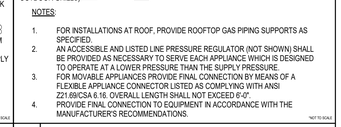
16 ROOF DRAIN DETAIL



15 PVC TO CAST IRON SUPPORT

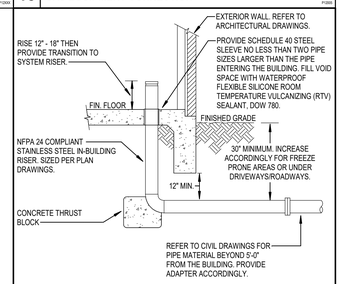


14 GAS REGULATOR VENT THRU ROOF



NOTES:
1. FOR INSTALLATIONS AT ROOF, PROVIDE ROOFTOP GAS PIPING SUPPORTS AS SPECIFIED.
2. AN ACCESSIBLE AND LISTED LINE PRESSURE REGULATOR (NOT SHOWN) SHALL BE PROVIDED AS NECESSARY TO SERVE EACH APPLIANCE WHICH IS DESIGNED TO OPERATE AT A LOWER PRESSURE THAN THE SUPPLY PRESSURE.
3. FOR MOVABLE APPLIANCES PROVIDE FINAL CONNECTION BY MEANS OF A FLEXIBLE APPLIANCE CONNECTOR LISTED AS COMPLYING WITH ANSI Z21.69/CSA 6.16. OVERALL LENGTH SHALL NOT EXCEED 6'-0".
4. PROVIDE FINAL CONNECTION TO EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

13 GAS EQUIPMENT CONNECTION



19 FIRE PROTECTION WATER ENTRY DETAIL

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
PLUMBING DETAILS

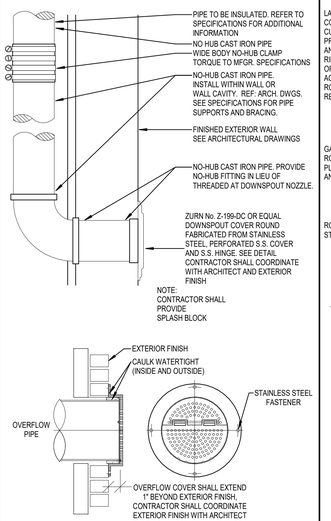
Drawing No.
P6.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

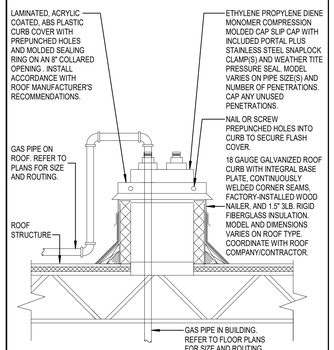
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:08:06 PM



4	OVERFLOW DOWNSPOUT COVER



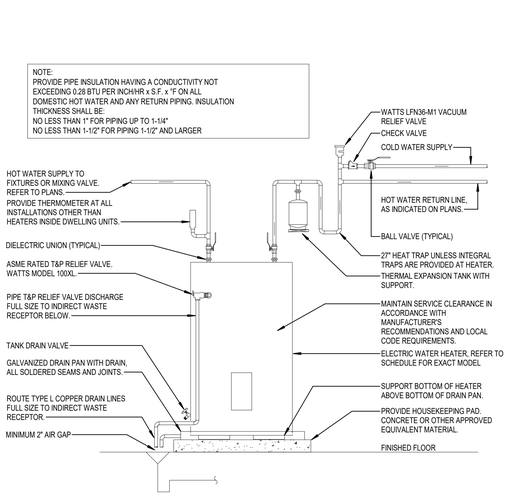
NOTE:

1. INSTALL GAS ROOF PENETRATIONS PER PORTALS PLUS AND ROOFING COMPANY/CONTRACTOR'S RECOMENDATIONS.
2. PROVIDE PORTALS PLUS PIPE PORTAL SYSTEM WITH MODEL **C-481** CAP WITH FOUR PIPES PENETRATION SIZES 3/8" - 1" IN DIAMETER.
3. PROVIDE PORTALS PLUS PIPE PORTAL SYSTEM WITH MODEL **C-412** CAP WITH FOUR PIPES PENETRATION SIZES 1" - 2" IN DIAMETER.
4. PROVIDE PORTALS PLUS PIPE PORTAL SYSTEM WITH MODEL **C-212** CAP WITH TWO PIPES PENETRATION SIZES 3/8" - 1" IN DIAMETER AND TWO PIPES PENETRATION SIZES 1" - 2" IN DIAMETER.
5. PROVIDE PORTALS PLUS PIPE PORTAL SYSTEM WITH MODEL **C-412** CAP WITH ONE PIPE PENETRATION SIZES 2" - 6" IN DIAMETER.
6. PROVIDE ROOF CURB MODEL **RC-3A** FOR NONINSULATED DECKS.
7. PROVIDE ROOF CURB MODEL **RC-2A** FOR DECKS WITH LIGHTWEIGHT FILL OR TAPERED INSULATION.
8. PROVIDE ROOF CURB MODEL **RC-4A** FOR DECKS WITH RIGID INSULATION.

"NOT TO SCALE"

3	GAS ROOF PENETRATION

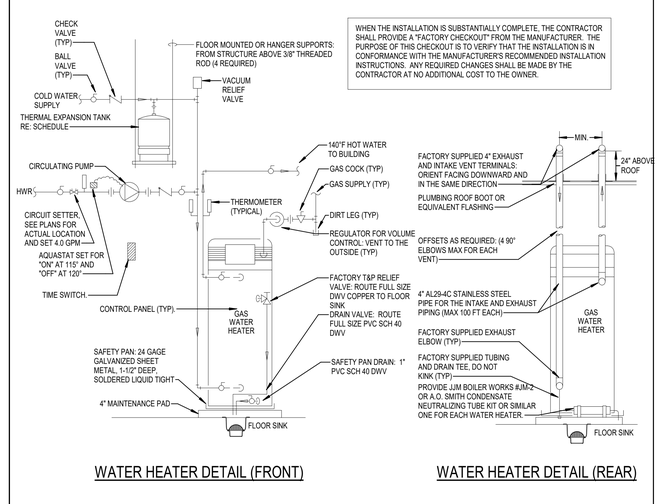
P3305



"NOT TO SCALE"

2	FLOOR MOUNTED ELECTRIC WATER HEATER W/HOT WATER RETURN

P3305



WHEN THE INSTALLATION IS SUBSTANTIALLY COMPLETE, THE CONTRACTOR SHALL PROVIDE A "FACTORY CHECKOUT" FROM THE MANUFACTURER. THE PURPOSE OF THIS CHECKOUT IS TO VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS. ANY REQUIRED CHANGES SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

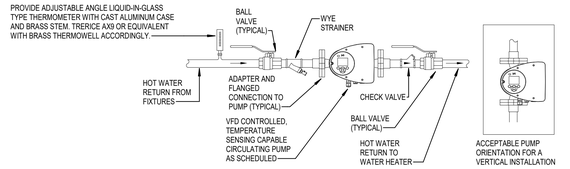
WATER HEATER DETAIL (FRONT)

WATER HEATER DETAIL (REAR)

"NOT TO SCALE"

1	GAS SINGLE CONDENSING WATER HEATER

P3910



NOTES

1. MOUNT PUMP SECURELY IN AN ACCESSEBLE LOCATION AT 48" A.F.F.
2. ENSURE THERMOMETER IS POSITIONED FOR CLEAR VISIBILITY AND READABILITY FROM A STANDING POSITION AT FLOOR LEVEL.
3. INSULATION IS NOT SHOWN FOR CLARITY BUT SHALL BE PROVIDED AS SPECIFIED.
4. CONTROL BOX SHALL BE ROTATED IN THE FIELD AS NECESSARY PER MANUFACTURER RECOMMENDATIONS TO ENSURE ADEQUATE COOLING. ADDITIONALLY, THE TEMPERATURE OF THE AMBIENT AIR MUST NOT EXCEED 104 DEGREES F.
5. THE PUMP CAN BE INSTALLED IN A HORIZONTAL (AS SHOWN) OR VERTICAL PIPE BUT THE PUMP SHALL ALWAYS BE INSTALLED WITH A HORIZONTAL MOTOR SHAFT. ROTATE PUMP "HEAD" COMPONENT IN THE FIELD AS NECESSARY PER THE MANUFACTURER'S INSTRUCTIONS.
6. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, THE PUMP SHALL BE SET TO CONSTANT TEMPERATURE CONTROL MODE. THIS MODE SHALL KEEP RETURN PIPE TEMPERATURE CONSTANT AND ALSO LIMIT FLOW TO A MAXIMUM RATE. THE PUMP SHALL AUTOMATICALLY RAMP DOWN WHEN WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE. REFER TO THE PLANS FOR SYSTEM TEMPERATURE AND FLOW CRITERIA.

"NOT TO SCALE"

5	DOMESTIC HOT WATER CIRCULATOR PIPING INSTALLATION - VFD CONTROLLED "SMART" PUMP

P3908

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING. PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
Author

Checked By:
Checker

Sheet Title:
PLUMBING DETAILS

Drawing No.
P6.02

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:08:14 PM

ABBREVIATIONS

AC	ALTERNATING CURRENT
AF	AMPERE FUSE, AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNCIATOR
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BKR	BREAKER
BLDG.	BUILDING
C	CONDUIT, CELSIUS
CKT	CIRCUIT
CLG.	CEILING
CONT.	CONTINUOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CT	CURRENT TRANSFORMER/COOLING TOWER
CU	COPPER
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING
ELEV.	ELEVATOR
EPO	EMERGENCY POWER OFF
ERRC	EMERGENCY RESPONDER RADIO COVERAGE SYSTEM
FA	FIRE ALARM
FF	FURNITURE FEED
FLA	FULL LOAD AMPS
FTL	FEED-THRU LUGS
GA	GAUGE
GEN	GENERATOR
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
IG	ISOLATED GROUND
LF	LINEAR FEET
LTG	LIGHTING
LV	LOW VOLTAGE
LVL	LEVEL
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
N3R	NEMA 3R
N4X	NEMA 4X
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
PH	PHASE
POS	POINT OF SALE
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
SF	SQUARE FOOT
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SPEC	SPECIFICATION
SQFT	SQUARE FOOT
ST	SHUNT TRIP
SWB	SWITCHBOARD
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TR	TAMPER RESISTANT RECEPTACLE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
W/SF	WATTS PER SQUARE FOOT
XFMR	TRANSFORMER

MANY ABBREVIATIONS NOT LISTED MAY BE FOUND IN THE NATIONAL ELECTRIC CODE, OR IN THE INTERNATIONAL AND UNIFORM CODES

PHASING

(E)	EXISTING (TO REMAIN)
(D)	SHALL BE DEMOLISHED
(N)	PROVIDE NEW
(R)	RELOCATED ELEMENT

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/3/15/#0" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE, "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD — VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO — EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS APPLICABLE TO RECEPTACLES:
"GFCI" GROUND FAULT INTERRUPTER
"WP" WEATHERPROOF
"IG" ISOLATED GROUND
"TR" TAMPER RESISTANT
"USB" RECEPTACLE WITH USB CHARGING PORTS
"AC" ABOVE COUNTER MOUNTING
"UC" UNDER COUNTER MOUNTING
"H" HORIZONTALLY ORIENTED RECEPTACLE

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. SHADED INDICATES SPLIT-WIRED
- FOURPLEX (QUADRUPLEX) RECEPTACLE
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- CONTROLLED WALL RECEPTACLE. DUPLEX: SPLIT-WIRED QUAD: SEPARATELY WIRED UNDER A COMMON COVERPLATE.
- POWER DEVICE RED IN COLOR, ON EMERGENCY POWER CIRCUIT
- CEILING RECEPTACLE/QUAD, EMERGENCY POWER SYMBOL MAY APPLY
- SPECIAL RECEPTACLE, NEMA CONFIGURATION PER PLAN OR EQUIPMENT
- TV — TV ROUGH-IN: 3-GANG RECESSED TV BOX, CONTAINING 1 DUPLEX RECEPTACLE, 1 GANG FOR AV, 1 GANG FOR DATA
- FLOOR BOX OR POKE THRU. POKE-THRU'S WHERE IN SUSPENDED SLABS, RECESSED IN FOUNDATION WHERE SLAB ON GRADE
- FLUSH ELECTRICAL FLOOR OUTLET. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.
- DC — DROP CORD WITH SIMPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- CR — CORD REEL WITH DUPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- J — JUNCTION BOX
  "MD" INDICATES POWER CONNECTION TO SERVE MOTOR DAMPER
  "HD" INDICATES POWER CONNECTION TO SERVE HAND DRYER
  "FV" INDICATES POWER CONNECTION TO SERVE FLUSH VALVES
- P — PULL BOX (OVER 4" SQUARE)
- BELL/BUZZER/CHIME
- PUSH BUTTON/DOOR BELL/START-STOP
- PP — POWER POLE
- POINT OF DIRECT CONNECTION TO EQUIPMENT
- C (2) — CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

2' X 4' 2' X 2' 1' X 4' 1' X 2' 1' X 1'

- STRIP LIGHTING FIXTURES.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SITE LIGHTING FIXTURE.

HATCHING PATTERNS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS.

- NL — EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
  "NL" NIGHT LIGHT ON UNSWITCHED 24HR OPERATION
- EM CIRCUIT — LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT, GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL EMERGENCY LIGHTING ORIGINATING FROM THE EMERGENCY CIRCUIT SHOWN.
- CRITICAL OPERATIONS LIGHTING ORIGINATING FROM THE CRITICAL CIRCUIT INDICATED, HATCHED AS INDICATED. HATCHING TYPICAL FOR ALL CRITICAL BRANCH LIGHT FIXTURES

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- UNDERGROUND, UNDERSLAB, CONCEALED ROUTING
- OHE — OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT UP/DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES EMPTY CONDUIT, 1" MINIMUM, UNLESS NOTED OTHERWISE.
- 1LA-2,4,6 — HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- (ON)1LA-6 — PARTIAL/SHARED CIRCUIT HOMERUN TO PANEL.
- TELECOMMUNICATIONS CABLE TRAY SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB — SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS — AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE

COMMUNICATIONS

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 18" ABOVE FINISHED FLOOR (AFF)

- DATA/COMM/AV ROUGH-IN. CONDUIT TO PLENUM AND BOX ONLY
- HS DS — SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 42" AFF

- VC — VOLUME CONTROL - WALL MOUNTED
- CB — INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER

- S L — INTERCOM/PA SPEAKER "L" LOCAL SOUND REINFORCEMENT

CEILING MOUNTED DEVICES:

- S VC — INTERCOM/PA SPEAKER. "VC" INDICATES VOLUME CONTROL ON SPEAKER.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE-LINE DIAGRAM

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- 800A/3P — SWITCH, RATING AS SHOWN
- 400A — FUSE, RATING AS SHOWN
- ST — SHUNT TRIP
- GFP — GROUND FAULT PROTECTION
- K — KIRK-KEY INTERLOCK
- M — DIGITAL METER OR SUB-METER INTEGRATED INTO EQUIPMENT
- 1200/5 — CURRENT TRANSFORMER, RATED AS SHOWN
- GROUND CONNECTION
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- M — ELECTRICAL UTILITY REVENUE METER
- SPD — SURGE PROTECTION DEVICE
- GANN — GENERATOR ANNUNCIATOR PANEL
- CIRCUIT BREAKER
- DRAW-OUT CIRCUIT BREAKER

DAYLIGHT ZONES

- DAYLIGHT ZONE/PRIMARY DAYLIGHT ZONE
- SECONDARY DAYLIGHT ZONE

DAYLIGHT ZONES SHALL BE INCLUSIVE OF THE FIXTURES WITHIN THE SHADED REGION, AND SHALL BE DIMMED USING ON-BOARD OR EXTERNAL CONTROL IN ACCORDANCE WITH IECC 2021. IECC 2018 OR 2015 MAY BE REFERENCED ONLY WHERE ADOPTED BY LOCAL AHJ.

GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

MISCELLANEOUS

- SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- 1 — DRAWING NOTE REFERENCE
- SOS — AREA OF RESCUE ASSISTANCE

FIRE ALARM

- W — WATER FLOW SWITCH
- SP — SUPERVISORY SWITCH
- S — SMOKE DETECTOR - MULTI CRITERIA DETECTOR
- S # — SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE
- H — HEAT DETECTOR
- S BT — BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S BR — BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S — FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- S — FIRE ALARM SPEAKER / CEILING MOUNT.
- DH — MAGNETIC DOOR HOLDER
- R — AUXILIARY CONTROL RELAY
- FH — FIRE FIGHTER HANDSET
- F — FIRE ALARM PULL STATION +42" AFF
- F — FIREMAN'S TELEPHONE JACK +42" AFF
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- FACP — FIRE ALARM CONTROL PANEL
- ANN — REMOTE FIRE ALARM ANNUNCIATOR PANEL
- RPS — REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- FSD — FIRE SMOKE DAMPER
- • — REMOTE LED INDICATOR LIGHT

SECURITY

- PB — ADA AUTO DOOR OPEN BUTTON
- DR — DOOR RELEASE BUTTON
- CR — WALL MOUNTED CARD READER

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES AND LIGHTING CONTROL DEVICES

ALL SWITCH TYPES AND SENSORS TYPES FOUND ON "LIGHTING CONTROL DEVICE SCHEDULE" LOCATED ON ELECTRICAL SCHEDULE SHEETS

SWITCH ANNOTATION AS FOLLOWS:
- X — TYPE, PER SCHEDULE; NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH
- $a,b,c — SWITCH LEGS, PER PLAN, SHOWN HERE AS 3 (a,b,c)

OCCUPANCY SENSOR ANNOTATION, AS FOLLOWS:
- OCx — OCCUPANCY / VACANCE SENSOR 'x' INDICATES TYPE, PER SCHEDULE
  - CEILING SENSOR
  - WITH BRACKET INDICATES WALL / CORNER MOUNT

LIGHT SENSOR ANNOTATION, AS FOLLOWS:
- PC — DIGITAL PHOTOCELL
- DS — DAYLIGHT HARVESTING SENSOR

RELAY PANELS, CONTACTORS, TIME SWITCHES:
- XX — RELAYS/CONTACTORS/TIMERS/DEVICES WHERE 'XX' INDICATES:
  "LC" LIGHTING CONTRACTOR
  "LCP" LIGHTING CONTROL PANEL
  "TS" TIME SWITCH
  "TC" TIME CLOCK

DRAWING/DETAIL REFERENCE KEY

RE: 1 /E3-2 — REFER TO DRAWING/DETAIL NUMBER; SHEET NUMBER (1 / E3-2)

PANELBOARD NOMENCLATURE

5 DP C H A 1
- 1 — SUB PANEL
- A — AREA
- H — VOLTAGE
  H: 480Y/277V
  L: 208Y/120V
- C — BRANCH
  NONE: NORMAL
  E: LIFE SAFETY
  Q: EQUIPMENT
  C: CRITICAL
  R: LEGALLY REQUIRED
  X: OPTIONAL STAND-BY
- DP — DISTRIBUTION PANEL (IF APPLICABLE)
- 5 — LEVEL

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL SYMBOL LEGEND

Drawing No.
E0.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 4:39:06 PM

FIRE ALARM GENERAL NOTES:

A. CONTRACTOR SHALL SUBMIT LICENSED SEALED FIRE ALARM DRAWINGS TO THE AHJ/PERMIT OFFICE FOR PLAN REVIEW BY MEANS OF DEFERRED SUBMITTAL.

B. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN THE CEILING TILE.

C. ALL FIRE ALARM VISUAL AND AUDIO/VISUAL DEVICES SHALL BE CONFIGURED TO PROVIDE CANDELA RATINGS IN ACCORDANCE WITH ADA & NFPA COVERAGES.

D. CONTRACTOR SHALL PROVIDE 120V DEDICATED 30A BRANCH CIRCUIT WITH LOCK-ON BREAKER PROVISIONS TO EACH SPEAKER AMPLIFIER AND VISUAL DEVICE POWER SUPPLIES AS REQUIRED BY FIRE ALARM SHOP DRAWINGS. CONNECT TO EMERGENCY POWER WHEN AVAILABLE.

E. ALL WIRING FOR DEVICES IN EXPOSED STRUCTURE AREAS SHALL BE ROUTED WITHIN CONDUIT. EXPOSED ROUTING SHALL BE AVOIDED. EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

F. CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS FOR FIRE ALARM PLENUM CONDUCTORS WHERE ROUTED ABOVE HARD CEILING AREAS. CONDUIT RACEWAYS SHALL ALLOW ACCESS TO CONDUIT AT EACH END IN ACCESSIBLE LOCATIONS ABOVE CEILINGS.

G. LOCATE NEW SMOKE DETECTORS IN THE PATH OF EGRESS , ELECTRICAL, MECHANICAL, IDF ROOMS, STORAGE ROOMS AND OTHER LOCATIONS IN CHILDREN AREAS.

H. DUCT MOUNTED SMOKE DETECTORS SERVING HVAC UNITS WITH 2000 CFM OR GREATER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN RETURN AIR DUCT INSIDE THE BUILDING THE UNIT SERVES. IT IS NOT ACCEPTABLE TO INSTALL DUCT MOUNTED SMOKE DETECTORS AT THE HVAC UNIT ON THE ROOF OR EXTERIOR OF THE BUILDING.

I. LOCATE HEAT DETECTORS IN BREAKROOM AREAS.

J. PROVIDE NEW AUDIO & VISUAL DEVICES PER APPLICABLE CODE.

LIGHTING GENERAL NOTES:

A. ALL LIGHTING CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH SPECIFICATIONS.

D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENCE IN CEILING LOCATION TO ALL OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAYMENT OF OTHER DEVICES WHERE LIGHT FIXTURES ARE INSTALLED.

E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH AND LIGHTING CONTROL DEVICE NOMENCLATURE AND SWITCH-LEG ANNOTATION OR LABELING.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (4) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

GENERAL ELECTRICAL NOTES:

A. ELECTRICAL DEVICE LOCATIONS SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. REFER TO DIVISION 27/28 DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 26 SCOPE OF WORK IS PROHIBITED.

C. HVAC AND PLUMBING EQUIPMENT LOCATIONS ARE NOT EXACT, AND THE EXACT POINT OF CONNECTION TO EQUIPMENT MAY VARY . COORDINATE EXACT ROUGH-IN REQUIREMENTS IN FIELD AND WITH FINAL SUBMITTALS.

D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES AND ON COVER OF JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

E. ROOF PENETRATIONS SHALL BE MINIMIZED. WHERE ABLE, ROUTE ALL CONDUIT FOR ROOF MOUNTED EQUIPMENT THROUGH ROOF CURB. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING NECESSARY WATER PROOFING AROUND ROOF PENETRATIONS WITH ROOFING INSTALLER.

F. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. FEED-THRU GFCI/GFI IS PROHIBITED, ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES. ALL GFCI RECEPTACLES SHALL BE ACCESSIBLE. PROVIDE SEPARATE RECEPTACLE PROTECTED BY "FACELESS GFCI." REQUIRED TO COMPLY WITH CURRENTLY ADOPTED NEC.

G. WHERE MULTI-WIRE HOMERUNS ARE INSTALLED, GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT. CONTRACTOR IS REQUIRED TO FURNISH CALCULATIONS PROVING CONDUCTOR DE-RATING HAS BEEN INCORPORATED, INCLUDING CONDUIT FILL PERCENTAGE AND MULTI-CONDUCTOR DE-RATING FOR MULTI-WIRE CIRCUITS. THE NEUTRAL IS CONSIDERED A CURRENT CARRYING CONDUCTOR FOR ALL PHASE CONFIGURATIONS. MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL SHALL BE PROVIDED WITH GROUPED BREAKER HANDLE TIES PER NEC ARTICLE 210.4 & 240.15(B).

H. CONTRACTOR SHALL PROVIDE PLENUM RATED MATERIAL FOR ALL INFRASTRUCTURE LOCATED IN PLENUMS NOT PROTECTED BY CONDUIT OR ANOTHER APPROVED/LISTED FIRE ENCLOSURE.

I. NEW ELECTRICAL EQUIPMENT LOCATED IN ELECTRICAL ROOMS SHALL BE ARRANGED TO COMPLY WITH LATEST NEC ARTICLE 110.

J. ELECTRICAL AND TECHNOLOGY OUTLETS SHOWN IN SOUND RATED PARTITIONS SHALL NOT BE PLACED BACK-TO-BACK. OFFSET AT LEAST ONE STUD AND SEAL FOR SOUND AS REQUIRED.

K. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR MAY PROVIDE NON-TAMPER RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406.

GENERAL ELECTRICAL DEMOLITION NOTES:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED THE EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE ARCHITECTURAL MODIFICATIONS TO THE EXISTING CONDITIONS. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND OUTLETS, CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS, WHICH MUST BE REROUTED, RELOCATED OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE REMODELING WORK MAY BE ACCOMPLISHED. NOT ALL EXISTING OUTLETS ARE NECESSARILY INDICATED ON THE DRAWINGS.

B. CONTRACTOR SHALL REVIEW DEMOLITION AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

C. CONTRACTOR SHALL VERIFY AND DOCUMENT EXISTING CONDITIONS OF ALL OUTLETS THAT ARE INDICATED OR REQUIRED TO BE REMOVED AND REINSTALLED TO FACILITATE THE WORK REQUIRED BY ALL TRADES. THE CONTRACTOR SHALL REPLACE NON-OPERABLE DEVICES AT NO ADDITIONAL COST TO THE OWNER. DOCUMENT OUTLETS IN NON-WORKING CONDITION PRIOR TO REMOVAL AND NOTIFY THE OWNER.

D. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

E. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING RECEPTACLES, DATA/TELEPHONE DROPS, P/A DEVICES, CONDUIT, AND WIRING. ALL EXISTING DEVICES MAY NOT BE DOCUMENTED ON PLANS. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR DEMOLISHED WALLS. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX.

F. ALL ABANDONED CONDUIT AND BOXES FOUND IN CRAWLSPACES, CEILINGS SPACES, CHASES, OR UTILITY SPACES SHALL BE REMOVED. EXISTING UNDERGROUND CONDUIT MAY BE ABANDONED. CAP ABANDONED UNDERGROUND CONDUIT FLUSH WITH GRADE.

G. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.

H. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED DUE TO REMODELING WORK.

I. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE OR REINSTALL ALL ITEMS REQUIRED BY SCOPE OF REMODEL.

J. ALL ABANDONED MATERIAL SHALL BE REMOVED FROM JOBSITE PRIOR TO PROJECT COMPLETION.

K. IDENTIFICATION AND LABELING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS.

L. CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL RELABEL ALL CIRCUIT DIRECTORIES WITH LOAD NAMES FOR ALL EXISTING AND NEW PANELS THAT WERE MODIFIED WITHIN THIS PROJECT.

EMER. LIGHTING GENERAL NOTES:

A. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS INDICATED IN NEC 700.12 AND PROVIDE LOCK-ON DEVICE AS REQUIRED BY NEC 700.

B. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.

C. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS. CONNECT TO DEDICATED CIRCUIT INDICATED AND PROVIDE LOCK-ON DEVICE AS REQUIRED BY NEC 700.

GENERAL SITE PLAN NOTES:

A. CONTRACTOR SHALL INSTALL ALL RACEWAYS, DUCTBANKS, CONCRETE PADS ETC. REQUIRED BY THE UTILITY COMPANY. OBTAIN WRITTEN INSTRUCTIONS FROM THE UTILITY COMPANY BEFORE ROUGH IN.

B. CONTRACTOR SHALL BORE UNDERNEATH EXISTING PAVEMENT WHERE CONDUITS ARE ROUTED UNDER EXISTING PAVING. SAW CUTTING IS NOT PERMITTED WITHOUT OWNER PERMISSION PRIOR TO BEGINNING WORK.

C. CONDUIT SHALL BE PERMITTED TO BE ROUTED EXPOSED/SURFACE MOUNTED IN MECHANICAL YARDS. EXPOSED CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TO THE WALLS, BEAMS, ETC. ROUTING SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.

D. CONTRACTOR SHALL SAW CUT EXISTING CONCRETE SLABS WHEN REQUIRED TO INSTALL NEW RACEWAYS. COORDINATE PROPOSED ROUTING WITH ARCHITECT PRIOR TO SAW CUTTING. CONTRACTOR SHALL PATCH TO MATCH EXISTING CONDITIONS. PERFORM X-RAY SCAN ON ANY POST TENSION SLAB PRIOR TO COMMENCING CUTTING.

E. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS WHEN EXCAVATING TO AVOID DAMAGE TO EXISTING POWER, COMMUNICATIONS, WATER, SANITARY/SEWER, AND/OR GAS LINES THAT MAY BE BURIED IN AREAS OF NEW CONSTRUCTION OR WHEN TRENCHING FOR NEW FEEDERS AND BRANCHES IS REQUIRED. COORDINATE WITH CIVIL PLANS FOR ADDITIONAL INFORMATION.

F. COORDINATE EQUIPMENT LOCATIONS WITH ARCHITECTURAL AND CIVIL PLANS FOR EXACT EQUIPMENT LOCATION BEFORE INSTALLATION. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE.

G. THE CONTRACTOR SHALL PROVIDE AND INSTALL PULL STRINGS TO ALL SPARE OR UNUSED UNDERGROUND CONDUITS.

H. CONTRACTOR SHALL PROVIDE CONDUIT AS REQUIRED BY DIVISION 27/28. COORDINATE WITH DIVISION 27/28 SYSTEM PROVIDER FOR EXACT SIZE AND QUANTITY OF CONDUITS REQUIRED.

I. PROVIDE FLUSH WITH GRADE TRAFFIC-RATED CONCRETE PULL-BOXES AS REQUIRED EVERY 250' MAXIMUM FOR ALL BELOW GRADE CONDUIT RUNS SHOWN. LOW VOLTAGE AND LINE VOLTAGE CABLING SHALL NOT BE RUN THROUGH THE SAME PULL BOX.

J. ELECTRICAL SERVICE PULL-BOXES/MANHOLES SHALL BE COORDINATED WITH THE POWER COMPANY. REFER TO POWER COMPANY STANDARDS FOR EXACT REQUIREMENTS.

K. UNDER GROUND BRANCH CIRCUITS CONDUITS SHALL BE A MINIMUM SIZE OF 1 INCH USING #10 AWG CONDUCTORS UNLESS OTHERWISE NOTED.

L. ALL UNDERGROUND FEEDERS AND BRANCH CIRCUIT SHALL BE PROVIDED WITH PULLBOXES AS REQUIRED BY NEC.

M. ALL PULL BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE. REFER TO CIVIL PLANS FOR FINAL GRADE ELEVATION.

GENERAL LIGHTING DEMOLITION NOTES:

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRESENT ON SITE PRIOR TO BIDDING, AND SHALL BE EXPECTED TO PERFORM DEMOLITION AND INSTALL NEW AS SHOWN ON THE DOCUMENTS, INCLUDING SCOPE THAT MAY NOT FEASIBLY BE INDICATED ON PLAN.

B. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING ELECTRICAL DEVICES ON EXISTING CEILING. ALL ABANDONED DEVICES IN CEILING WITHIN SCOPE OF WORK SHALL BE REMOVED.

C. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

D. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING SWITCHES AND FIRE ALARM DEVICES. REFER TO ARCHITECTURAL DEMO PLAN. THIS SCOPE MAY NOT BE DIRECTLY IMPLIED BY NOTES ON DEMO PLANS AS IT IS ASSUMED THIS SCOPE EXISTS BASED ON ARCHITECTURAL DEMOLITION PLANS.

E. CONTRACTOR SHALL REVIEW DEMO AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

F. ALL FIXTURES REMOVED AND REINSTALLED SHALL BE CLEANED, RELAMPED AS REQUIRED AND TOUCHED UP WITH PAINT. ALL DAMAGED PARTS MUST BE REPLACED. THE FIXTURES SHALL THEN BE REINSTALLED AS REQUIRED. PROVIDE NEW DRIVERS AS REQUIRED.ALL EXISTING SWITCHING ZONES SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHER ON PLANS.

G. ALL LIGHTING CIRCUITS SHALL BE DEMOLISHED AS REQUIRED BY THE DEMOLITION SCOPE ON THE DOCUMENTS. REPAIR ANY CIRCUITS THAT ARE PARTIALLY DEMOLISHED AND CONTAIN OUTLETS THAT ARE 'NOT IN SCOPE' OR OUTSIDE OF THE LIMITS OF CONSTRUCTION TO WORKING CONDITION. PROVIDE ADDITIONAL CONDUIT, WIRE AND BOXES AS NEEDED.

H. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 50% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.

LIGHTING CONTROLS COMMISSIONING

THE CONTRACTOR SHALL INCLUDE, AS PART OF THEIR SCOPE, COMMISSIONING OF THE LIGHTING CONTROL SYSTEM, AS INDICATED BELOW. THE LIGHTING CONTROL SYSTEM MAY BE STAND-ALONE, NETWORK, RELAY, CONTACTOR OPERATED, TIMER, PHOTOCELL, OR ANY COMBINATION OF THESE LISTED. FOR EACH OF THE FOLLOWING TASKS, RECORD THE DATE PERFORMED, PERSON(S) COMPLETING THE VERIFICATION, INITIAL SETTING/CONDITION, ACTIONS PERFORMED, AND FINAL SETTING CONDITION. SUBMIT DOCUMENTATION TO THE CITY HAVING JURISDICTION AT OR BEFORE SUBSTANTIAL COMPLETION. SUBMITTING AFTER SUBSTANTIAL COMPLETION WILL DELAY THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

A. VERIFY ALL LIGHTING FIXTURES ARE FUNCTIONAL
B. TEST ALL EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, AND EMERGENCY TRANSFER DEVICES OR CENTRAL BATTERY SYSTEM.
C. VERIFY THAT ALL OCCUPANCY SENSORS HAVE BEEN INSTALLED AND ARE OPERATIONAL.
D. TEST ALL WALL-SWITCH OCCUPANCY SENSORS
E. TEST ALL DIGITAL/LOW VOLTAGE SWITCHES AND THEIR PERIPHERALS, WHERE INSTALLED, SUCH AS:
   - E.1 CEILING MOUNTED OCCUPANCY SENSORS
   - E.2 POWER PACKS
   - E.3 DAYLIGHT SENSING/HARVESTING SENSORS.

F. VERIFY THE FOLLOWING FUNCTIONALITY AND/OR INSTALLATION OF ALL CONTROL DEVICES:
   - F.1 SENSORS HAVE BEEN LOCATED AND AIMED TO RELEVANT LOCATIONS OF OCCUPANCY, PER MANUFACTURERS RECOMMENDATION.
   - F.2 VERIFY STATUS INDICATORS ON DEVICES ARE OPERATIONAL AND CORRECT
   - F.3 DEVICES CONTROL LIGHTING FIXTURES AS SPECIFIED ON THE DRAWINGS
   - F.4 ALL OCCUPANCY/VACANCY MODE TIME-OUTS ARE SET TO NO GREATER THAN 30 MINUTES.
   - F.5 ALL CONTROL DEVICES ARE SET VACANCY MODE, OR NO MORE THAN 50% OF FIXTURES TURN ON AUTOMATICALLY UPON ENTERING A SPACE/ROOM.
   - F.6 MOVEMENT IN ADJACENT SPACES OR CYCLING OF HVAC SYSTEMS DOES NOT FALSELY TRIGGER SENSORS. (VACANCY MODE PREFERRED TO PREVENT THIS SHOULD ADDITIONAL INFORMATION REGARDING THE TESTING REQUIREMENTS BE NEEDED, REFERENCE THE LATEST VERSION OF ASHRAE OR IECC AS NOTED IN CONTRACT DOCUMENTS.
   - F.7 DAYLIGHT SENSORS ARE INSTALLED WHERE SHOWN ON DRAWINGS.
   - F.8 DAYLIGHT HARVESTING SYSTEM RESPONDS WHEN SENSOR IS COVERED AND UNCOVERED.
   - F.9 ONLY FIXTURES IN DAYLIGHT ZONES RESPOND TO DAYLIGHT SENSORS.
   - F.10 TIME CLOCKS ARE SET TO CORRECT TIME AND DATE.
   - F.11 TIME CLOCKS HAVE BATTERY BACKUP INSTALLED.
   - F.12 TIME CLOCKS CONTROL THE CIRCUITS INDICATED ON DRAWINGS.
   - F.13 TIME CLOCK OVERRIDE IS LIMITED TO 2 HOURS.

GENERAL POWER DEMOLITION NOTES:

A. EXISTING CIRCUIT BREAKERS VACATED DUE TO REMODELING WORK SHALL REMAIN AS SPARE BREAKERS AND LEFT IN THE 'OFF' POSITION.

B. WHERE INDICATED OR REQUIRED BY OTHER TRADES, CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PREWIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED.

C. CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED AT THE CONTRACTOR'S COST.

D. DEMOLISHED POKE-THRUS SHALL BE DISCONNECTED FROM EXISTING BRANCH CIRCUIT, DATA AND/OR AV CONDUCTORS. CAP WITH A UL LISTED FIRE RATED POKE-THRU COVER.

E. EXISTING RECEPTACLE OR MECHANICAL CIRCUITS MODIFIED IN FIELD SHALL NOT EXCEED 80% CAPACITY BASED ON AMP-RATING OF CIRCUIT.

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL GENERAL NOTES

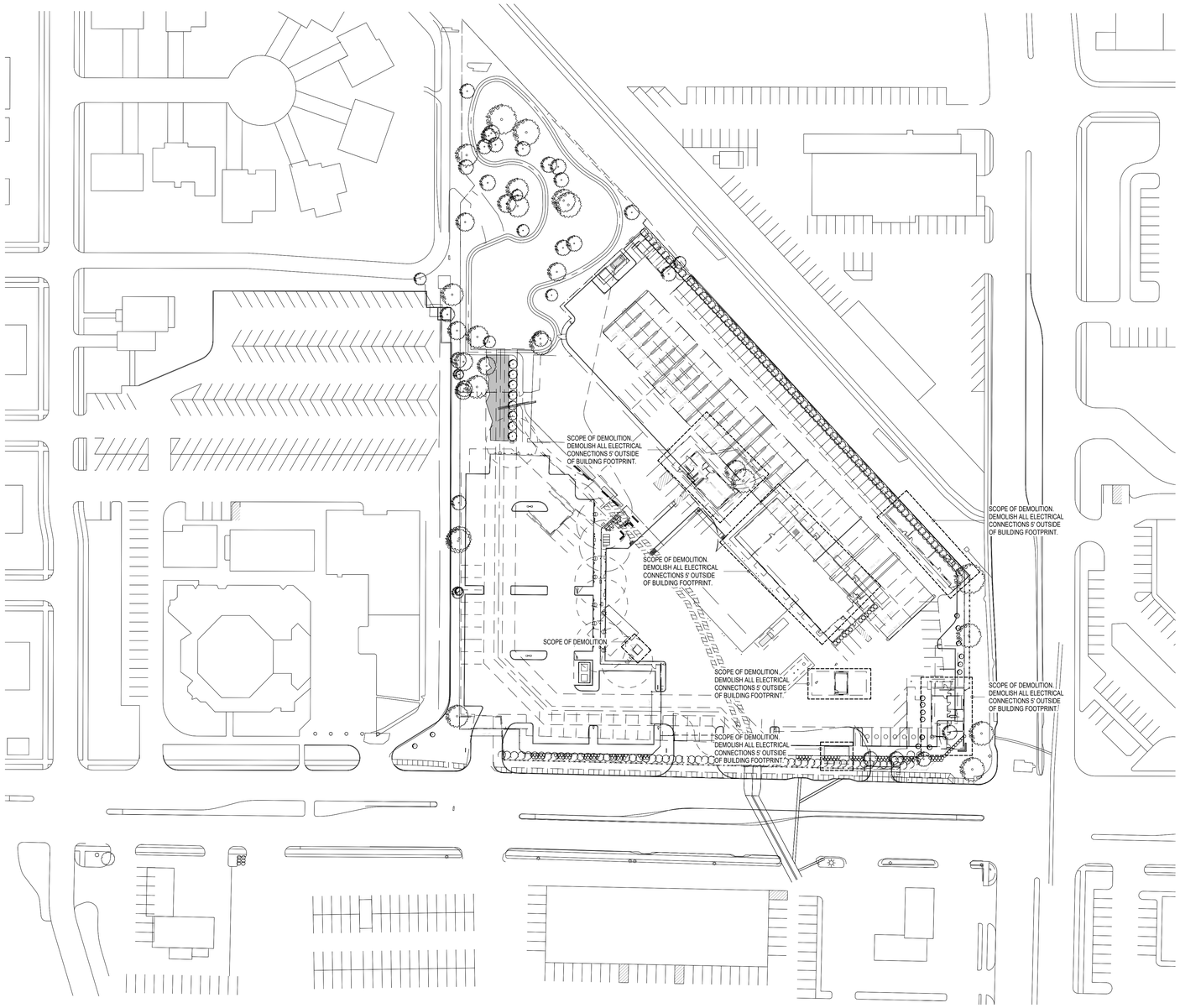
Drawing No.
E0.11

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB | TD | EM | DW | ZB

5/4/2026 4:39:09 PM



1 ELECTRICAL DEMOLITION SITE PLAN

1" = 50'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING. PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL DEMOLITION SITE PLAN

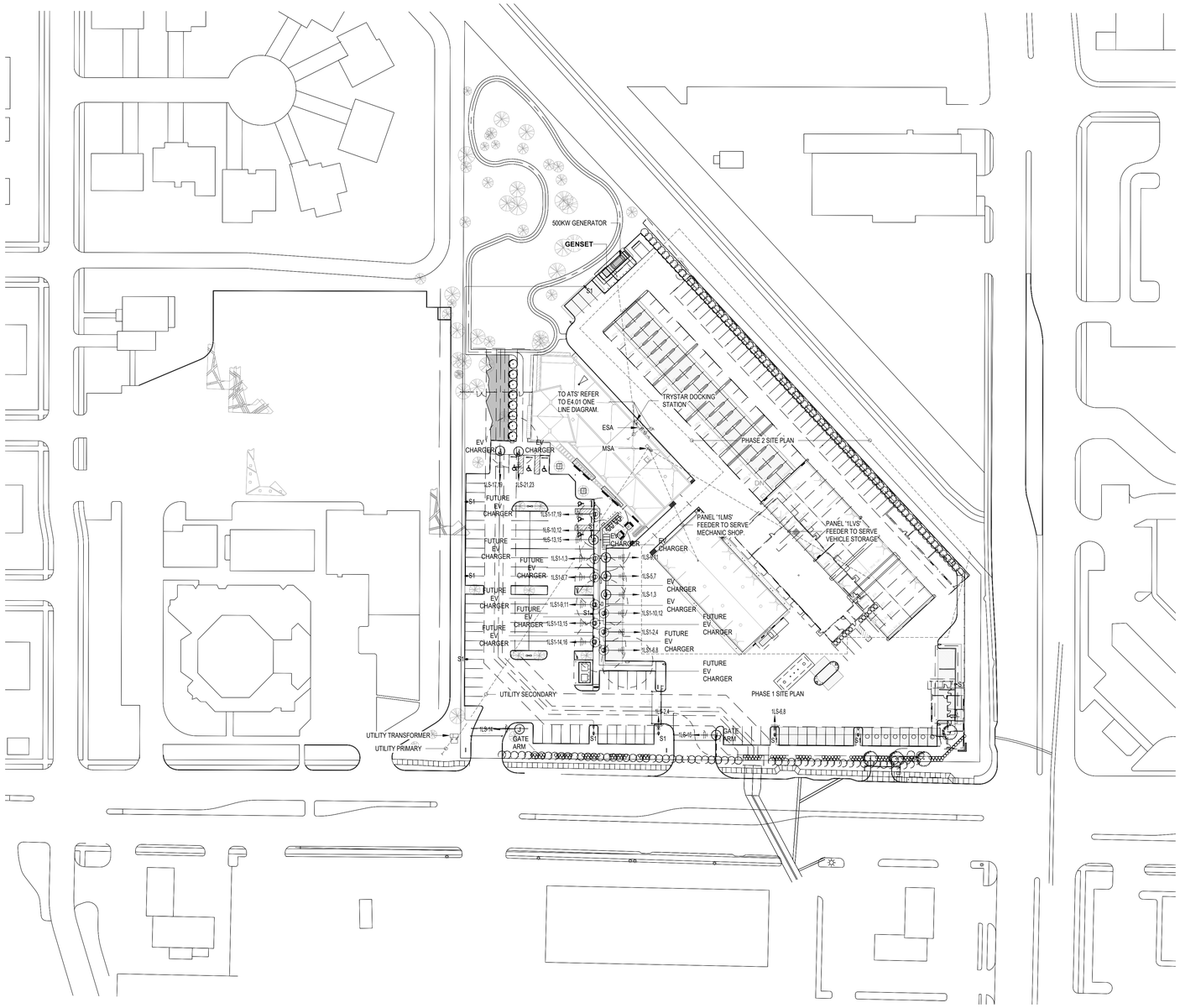
Drawing No.
ES1.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:25:29 PM



1 ELECTRICAL SITE PLAN

1" = 50'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL SITE PLAN

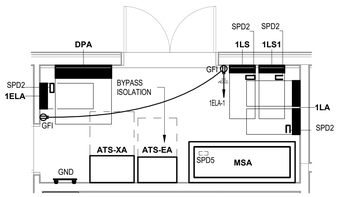
Drawing No.
ES1.02

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

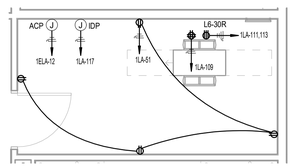
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

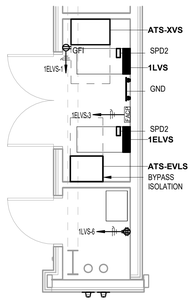
5/4/2026 4:39:04 PM



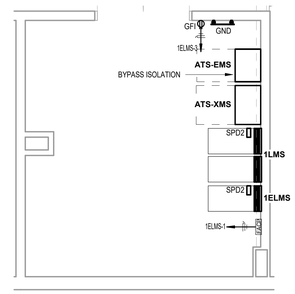
1 **ENLARGED PLAN - ELECTRICAL 133**
1/4" = 1'-0"



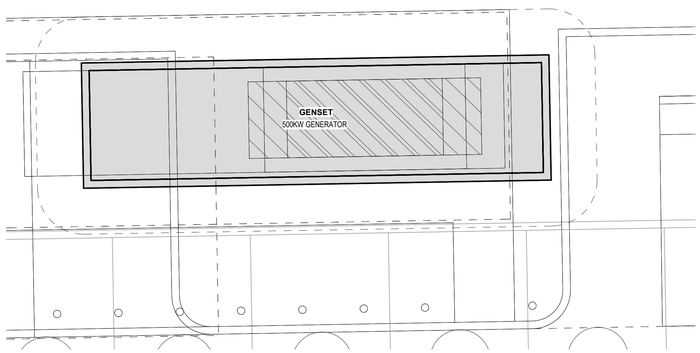
2 **ENLARGED PLAN - MDF 135**
1/4" = 1'-0"



3 **ENLARGED PLAN - ELECTRICAL 313 & IDF 312**
1/4" = 1'-0"



4 **ENLARGED PLAN - UTILITY 221**
1/4" = 1'-0"



5 **ENLARGED PLAN - GENERATOR YARD**
1/4" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ENLARGED ELECTRICAL PLAN

Drawing No.
E3.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:41:34 PM

FEEDER SCHEDULE
COPPER ONLY

RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	4#10, 1#10 G.	3/4"
40A	1	4#8, 1#10 G.	1"
50A	1	4#8, 1#10 G.	1"
60A	1	4#6, 1#10 G.	1"
70A	1	4#4, 1#8 G.	1 1/4"
80A	1	4#4, 1#8 G.	1 1/4"
90A	1	4#3, 1#8 G.	1 1/4"
100A	1	4#3, 1#8 G.	1 1/4"
125A	1	4#1, 1#6 G.	1 1/2"
150A	1	4#1/0, 1#6 G.	1 1/2"
175A	1	4#2/0, 1#6 G.	2"
200A	1	4#3/0, 1#6 G.	2"
225A	1	4#4/0, 1#4 G.	2 1/2"
250A	1	4#250, 1#4 G.	2 1/2"
300A	1	4#350, 1#4 G.	3"
350A	1	4#500, 1#3 G.	3 1/2"
400A	1	4#600, 1#3 G.	4"
450A	2	4#4/0, 1#2 G.	2 1/2"
500A	2	4#250, 1#2G.	2 1/2"
600A	2	4#350, 1#1G.	3"
700A	2	4#500, 1#1/0G.	4"
800A	2	4#600, 1#1/0G.	4"
1000A	3	4#500, 1#2/0G.	4"
1200A	4	4#350, 1#3/0G.	3"
1600A	4	4#600, 1#4/0G.	4"
	5	4#500, 1#4/0G.	4"
2000A	5	4#600, 1#250 G.	4"
	6	4#500, 1#250 G.	4"
2500A	6	4#600, 1#350 G.	4"
	7	4#500, 1#350 G.	4"
3000A	8	4#500, 1#400 G.	4"
3500A	9	4#600, 1#500 G.	4"
	10	4#500, 1#500 G.	4"
4000A	10	4#600, 1#500 G.	4"
	11	4#500, 1#500 G.	4"
5000A	12	4#600, 1#750 G.	4"
	14	4#500, 1#750 G.	4"

1. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
2. GROUND NOT REQUIRED AT SERVICE LATERAL.

1-PHASE 3-WIRE FEEDER SCHEDULE
COPPER ONLY

RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	3#10, 1#10 G.	3/4"
40A	1	3#8, 1#10 G.	3/4"
50A	1	3#8, 1#10 G.	3/4"
60A	1	3#6, 1#10 G.	1"
70A	1	3#4, 1#8 G.	1"
80A	1	3#4, 1#8 G.	1"
90A	1	3#3, 1#8 G.	1 1/4"
100A	1	3#3, 1#8 G.	1 1/4"
125A	1	3#1, 1#6 G.	1 1/4"
150A	1	3#1/0, 1#6 G.	1 1/2"
175A	1	3#2/0, 1#6 G.	1 1/2"
200A	1	3#3/0, 1#6 G.	2"
225A	1	3#4/0, 1#4 G.	2"
250A	1	3#250, 1#4 G.	2 1/2"
300A	1	3#350, 1#4 G.	2 1/2"
350A	1	3#500, 1#3 G.	3"
400A	1	3#600, 1#3 G.	3 1/2"
450A	2	3#4/0, 1#2 G.	2"
500A	2	3#250, 1#2G.	2 1/2"
600A	2	3#350, 1#1G.	3"
700A	2	3#500, 1#1/0G.	3 1/2"
800A	2	3#600, 1#1/0G.	3 1/2"
1000A	3	3#500, 1#2/0G.	3"
1200A	4	3#350, 1#3/0G.	3"
1600A	4	3#600, 1#4/0G.	3 1/2"
	5	3#500, 1#4/0G.	3"
2000A	5	3#600, 1#250G.	3 1/2"
	6	3#500, 1#250G.	3"
2500A	6	3#600, 1#350G.	3 1/2"
	7	3#500, 1#350G.	3 1/2"
3000A	8	3#500, 1#400G.	3 1/2"
3500A	9	3#600, 1#500G.	3 1/2"
	10	3#500, 1#500G.	3 1/2"
4000A	10	3#600, 1#500G.	3 1/2"
	11	3#500, 1#500G.	3 1/2"

1. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
2. GROUND NOT REQUIRED AT SERVICE LATERAL.

Load Analysis - Dallas County Road and Bridge

208 / 120 , 3 -PHASE, 4 -WIRE — 1/21/2026

DESCRIPTION							NEC	KVA
Admin Building	6,231	SF						
Lighting	6,231	SF	X	2.5	W/SF		220.12	15.58
Receptacles	6,231	SF	X	1	W/SF		220.14(K), 220.44	6.23
Miscellaneous	6,231	SF	X	4	W/SF		220.12	24.92
Cooling	6,231	SF	X	325	SF/TON	2.5 KVA/TON	220.21	47.93
Heating	6,231	SF	X	5	W/SF		220.21	0.00
EV Chargers	36	QTY	X	6240	VA			224.64
Fans	6,231	SF	X	2.5	W/SF			15.58
Water Heater	10,000	VA						10.00
SUBTOTAL								344.9
Mechanic Shop	9,988	SF						
Lighting	9,988	SF	X	2.5	W/SF		220.12	24.97
Receptacles	9,988	SF	X	1	W/SF		220.14(K), 220.44	9.99
Miscellaneous	9,988	SF	X	4	W/SF		220.12	39.95
Cooling	9,988	SF	X	400	SF/TON	2.5 KVA/TON	220.21	62.43
Heating	9,988	SF	X	5	W/SF		220.21	0.00
Fans	9,988	SF	X	2.5	W/SF			24.97
Shop Equipment	9,988	SF	X	15	W/SF			149.82
Water Heater	10,000	VA						10.00
SUBTOTAL								322.1
Vehicle Storage								
Motorized Door	1,500	VA	X	12	QTY			18.00
Vehicle Wash Equipment	20,000	VA						20.00
Receptacles	20	QTY	X	180	VA			3.60
Lighting	24,500	SF	X	0.3	W/SF		220.12	7.35
Fans	10,850	SF	X	2	W/SF			21.70
Miscellaneous	24,500	SF	X	1	W/SF			24.50
Water Heater	10,000	VA						10.00
SUBTOTAL								105.2
							Total Kva:	772.2
							Total Amps:	2143.3
TOTAL SQUARE FOOTAGE	16,219	S.F.					Service Size (Amp):	2500.0
							Spare Ampacity:	356.7

ONE-LINE DIAGRAM GENERAL NOTES:

A. CONTRACTOR SHALL UTILIZE THE MANUFACTURER OF ELECTRICAL EQUIPMENT TO PROVIDE A SHORT CIRCUIT AND ARC FLASH STUDY OF THE ENTIRE ELECTRICAL SYSTEM.

1. CONTRACTOR SHALL SUBMIT FULL STUDY PRIOR TO RELEASE OF ELECTRICAL EQUIPMENT FOR MANUFACTURER TO ENSURE EQUIPMENT COMPLIES WITH ALL STUDIES. STUDIES SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER.
2. PROVIDE DATA TO ENSURE SHORT CIRCUIT INTERRUPTING RATINGS OF EQUIPMENT IS GREATER THAN FAULT CURRENT AVAILABLE AT EQUIPMENT. SERIES RATINGS MAY BE USED EXCEPT FOR SWITCHBOARDS AND DISTRIBUTION PANELS. SWITCHBOARDS AND DISTRIBUTION PANELS SHALL BE FULLY RATED. WHERE SERIES RATINGS ARE UTILIZED, EQUIPMENT SHALL BEAR BLUE LABELS INDICATING SERIES RATED EQUIPMENT ON THE EXTERIOR OF EACH ENCLOSURE.
3. ARC FLASH STUDY SHALL PROVIDE ARC INCIDENT ENERGY LEVELS, ARC FLASH BOUNDARY, AND PPE INFORMATION TO BE PRINTED AND APPLIED TO EACH EQUIPMENT IN THE SYSTEM. PROVIDE EQUIPMENT INTERRUPTING DATA AS PART OF STUDY.
4. REFER TO SPECIFICATIONS SECTION 26.05.73.

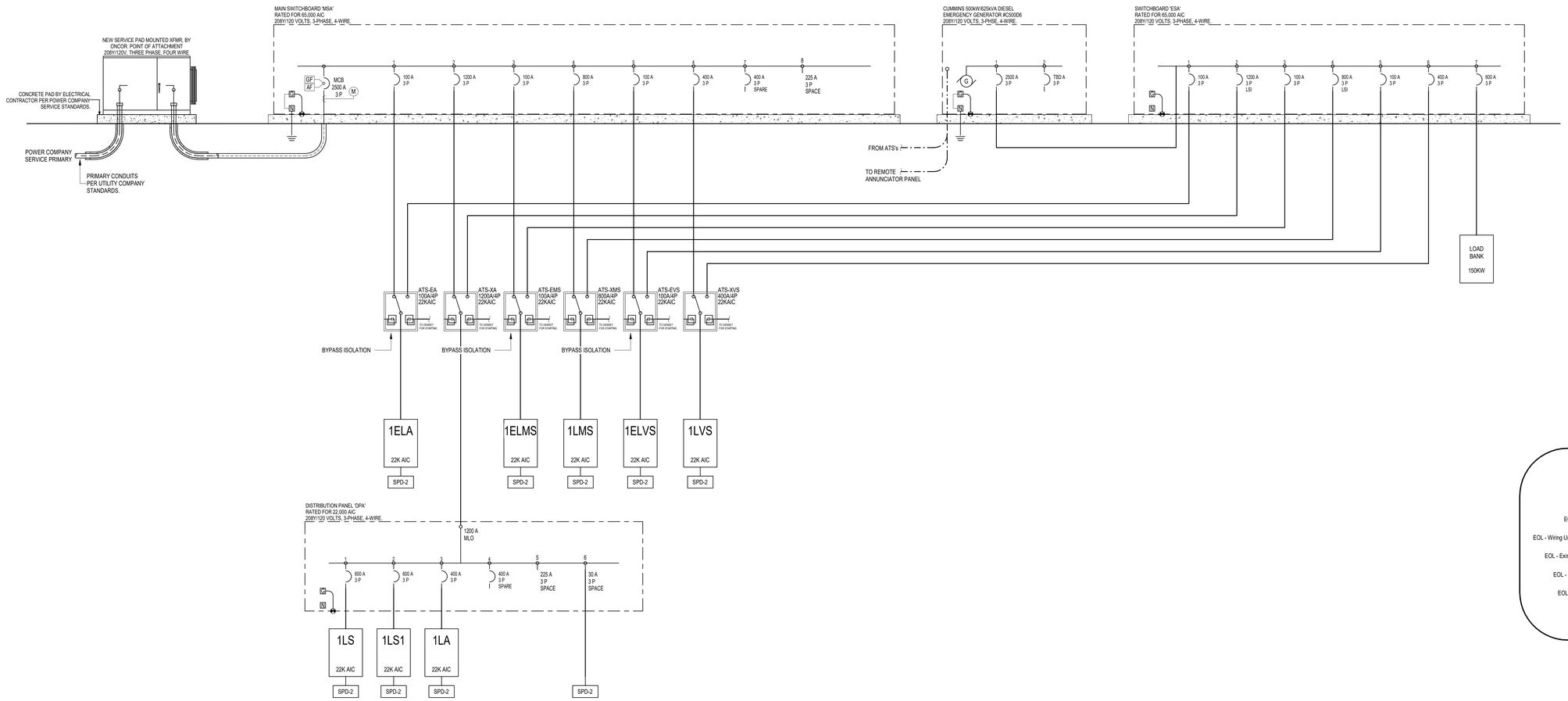
B. METERING EQUIPMENT ENCLOSURE PROVIDED BY POWER CO., INSTALLED BY ELECTRICAL CONTRACTOR PER POWER COMPANY SPECIFICATIONS. METERS INSTALLED BY POWER COMPANY.

C. CONTRACTOR SHALL INSTALL FEEDERS BASED ON THE OVERCURRENT DEVICE RATING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE FEEDER SCHEDULE TO OBTAIN AND INSTALL THE FEEDERS REQUIRED.

D. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION.

E. PRIOR TO INSTALLATION OF UNDERGROUND FEEDERS, THE ELECTRICAL CONTRACTOR SHALL SUBMIT AN UNDERGROUND ROUTING PLAN TO THE ENGINEER OF RECORD., INDICATING THE EXACT ROUTING PATH FOR ALL UNDERGROUND CONDUIT. INDICATE STUB-UP LOCATIONS, SIZE AND QUANTITY OF CONDUIT. ALL ELECTRICAL PANELS AND EQUIPMENT SHALL BE SHOWN ON THIS PLAN FOR REFERENCE OF CONDUIT TERMINATION.

F. CONTRACTOR SHALL COORDINATE NEW ELECTRICAL SERVICE WITH UTILITY COMPANY. PROVIDE CONDUIT, TRANSFORMER PAD, AND TAP BOX, WHERE REQUIRED. ALL NEW UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY STANDARDS.



Line Types

EOL - Wiring	———	wiring lines
EOL - Wiring Underground	—·—·—	underground wiring lines
EOL - Existing Wiring	———	existing wiring lines
EOL - Enclosures	— — —	lines for enclosures
EOL - Concrete	———	for greyed out lines

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL ONE-LINE DIAGRAM

Drawing No.
E4.01

5/4/2026 4:39:16 PM

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURE	MODEL	MOUNTING	NO. OF LAMPS	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
A	LITHONIA	2BLT4 48L ADP MVOLT EZ10 LP835	RECESSED	1	LED	120 V	40 VA	RECESSED 2X4 FIXTURE
AE	LITHONIA	2BLT4 48L ADP MVOLT EZ10 LP835 E10W	RECESSED	1	LED	120 V	40 VA	RECESSED 2X4 FIXTURE
AK	LITHONIA	2GTL 4 60L FN A19 MVOLT GZ10 LP840 ABC	RECESSED	1	LED	120 V	60 VA	RECESSED 2X4 FIXTURE
AKE	LITHONIA	2GTL 4 60L FN A19 MVOLT GZ10 LP840 ABC E10W	RECESSED	1	LED	120 V	60 VA	RECESSED 2X4 FIXTURE
B	LITHONIA	2BLT2 33L ADP MVOLT GZ10 LP835	RECESSED	1	LED	120 V	58 VA	RECESSED 2X2 FIXTURE
C	LITHONIA	LDN6 35 15 AR LSS TRW MVOLT GZ10	RECESSED	1	LED	120 V	26 VA	6INCH DOWNLIGHT
C2	EMERGI-LITE	MODEL	SURFACE		CF26DT/E/IN/835/ECO	120 V	26 VA	
C2E	GOTHAM	EVO6SQL 35 10 AR LSS MVOLT UGZ	SURFACE	1	LED	120 V	26 VA	SQUARE DOWNLIGHT
CE	LITHONIA	LDN6 35 15 AR LSS TRW MVOLT GZ10 EL	RECESSED	1	LED	120 V	26 VA	6INCH DOWNLIGHT
CP	BARRON	ECX 75 CP	RECESSED	1	LED	120 V	58 VA	CARPORT FIXTURE
DE	LITHONIA	EVO6SH 35 15 DFR SOL MVOLT EZ1	RECESSED	1	LED	120 V	26 VA	6INCH SHOWER DOWNLIGHT
F	LITHONIA	CSS L48 6000LM MVOLT MIN10 ZT 40K 80	CHAIN HUNG	1	LED	120 V	32 VA	4'-0" STRIP FIXTURE
FE	LITHONIA	CSS L48 6000LM MVOLT MIN10 ZT 40K 80 E10W	CHAIN HUNG	1	LED	120 V	32 VA	4'-0" STRIP FIXTURE
HB	LITHONIA	CPHB 36000LM SEF GCL WD MVOLT GZ10 40K 80CRI	CHAIN HUNG	1	LED	120 V	32 VA	HIGH BAY LIGHT FIXTURE
HBE	LITHONIA	CPHB 36000LM SEF GCL WD MVOLT GZ10 40K 80CRI IE20W	CHAIN HUNG	1	LED	120 V	32 VA	HIGH BAY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK
P1			PENDANT			120 V	42 VA	
S1	LITHONIA	DSX1 LED P6 40K 70CRI BLC3 MVOLT SPA [FINISH] DM19AS @ 25 MH	POLE	1	LED	208 V	100 VA	SINGLE HEAD ON 25'-0" POLE
V1			SURFACE			120 V	26 VA	
W1	LITHONIA	WDGE2 P3 40K 80 T4M	SURFACE	1	LED	120 V	26 VA	EXTERIOR WALL SCONCE
W1E	NEWSTAR	GATEWAY SERIES SM MD 40K 80 T3 UN BZ DD QS	SURFACE	1	LED	120 V	26 VA	EXTERIOR WALL SCONCE
X	BARRON	900EX	SURFACE	1	LED	120 V	5 VA	SINGLE FACED EXIT SIGN - REFER TO FLOOR PLANS FOR CHEVRON REQUIREMENTS
X2	BARRON	900EX	SURFACE	1	LED	120 V	5 VA	DOUBLE FACED EXIT SIGN - REFER TO FLOOR PLANS FOR CHEVRON REQUIREMENTS

NOTES:
1. LIGHTING FIXTURE CATALOG NUMBERS AND DESCRIPTIONS ARE SCHEDULED FOR ESTABLISHING QUALITY, APPEARANCE AND PERFORMANCE OF THE FIXTURES AS REQUIRED BY THE DESIGN. EXACT CATALOG NUMBERS DESCRIBING MOUNTING CONDITIONS, FINISHES AND REQUIREMENTS RELATED TO TRIMS AND LENS FOR ALL FIXTURES SHALL BE CONFIRMED (BY THE CONTRACTOR) WITH THE ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS, INCLUDING GRID TYPES, ON THE ARCHITECTURAL DRAWINGS PRIOR TO BIDDING. FIXTURES SHALL BE SUBMITTED ACCORDING TO THE CONDITIONS INDICATED ON THE ARCHITECTURAL PLANS. REFER TO THE WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. THE NEW LIGHT FIXTURES SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHT FIXTURES IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHT FIXTURES WILL BE ISSUED IN AN ADDENDUM.

LIGHTING CONTROLS DEVICE SCHEDULE

TYPE	DESCRIPTION	COMMENTS
$ S^3 S^4 S^K	LINE VOLTAGE SWITCH.	'3' INDICATES THREE WAY SWITCHING. '4' INDICATES FOUR WAY SWITCHING. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
$S^{3,D}$	LINE VOLTAGE DIMMER WITH 3-WAY SWITCH.	3-WAY DIMMER FOR USE IN DWELLING UNIT. COORDINATE DIMMING TYPE WITH FINAL FIXTURE AND LAMP SELECTION TO ENSURE COMPATIBILITY.
S^F	MULTI-SPEED FAN CONTROLLER WITH LINE VOLTAGE SWITCH.	
S^T	LINE VOLTAGE TIMER SWITCH WITH DIGITAL TIMER.	RATED FOR 120/277VAC. PROVIDE WITH AUDIBLE & VISUAL ALERTS. USER PROGRAMMABLE FOR 5MIN-12HR TIME-OUT SETTINGS.
S^{OC1}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO VACANCY MODE
S^{OC2}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DUAL RELAYS.	SENSOR SHALL BE SET TO VACANCY MODE. ONE RELAY SHALL SERVE 120 VOLT LIGHTING IN AREA INDICATED, AND ONE RELAY SHALL SERVE 277 VOLT LIGHTING.
S^{OCD}	LOW VOLTAGE OC SENSOR SWITCH WITH 0-10V DIMMER	SENSOR SHALL BE SET TO VACANCY MODE
S^{LV} S^{LVK}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO POWER PACK OR ROOM CONTROLLER IF OCCUPANCY SENSORS ARE INDICATED ON PLAN. PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{OR} S^{ORK}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO RELAY PANEL OR TIME CLOCK FOR TIME OF DAY OVERRIDE AS NOTED ON PLANS. PROVIDE MULTI-BUTTON SWITCH AS NOTED ON PLANS. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^D	LOW VOLTAGE SWITCH WITH 0-10V DIMMER	PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. PROVIDE POWER PACKS OR ROOM CONTROLLERS AS REQUIRED.
OC1	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS NEEDED.
OC2	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
OC3	CEILING MOUNTED ULTRASONIC OR MICROPHONIC OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
OC4	CORNER MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
OC5	WET LOCATION PIR OCCUPANCY SENSOR.	CONNECT GARAGE OCCUPANCY SENSORS TO RELAY PANEL SERVING AREA. PROVIDE POWER PACKS FOR CONTROL WHERE NOT LOCATED IN THE GARAGE.
PC	DIGITAL PHOTOSENSOR	CONNECT TO ROOM CONTROLLER OR RELAY PANEL AS NOTED ON PLANS.
DS	DAYLIGHT HARVESTING SENSOR	CONNECT TO ROOM CONTROLLER OR INDIVIDUAL LIGHT FIXTURE FOR DAYLIGHT HARVESTING DIMMING CONTROL.

NOTES:
1. WATTSTOPPER IS THE BASIS OF DESIGN.
2. THE LIGHTING CONTROLS SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHTING CONTROLS IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHTING CONTROL SYSTEMS WILL BE ISSUED IN AN ADDENDUM.
3. BASIS OF DESIGN SHALL BE A HARD-WIRED TYPE SYSTEM, UNLESS NOTED OTHERWISE.

SURGE PROTECTION DEVICE (SPD) SCHEDULE

MARK	MANUFACTURER	MODEL	VOLTAGE	PHASE	SURGE RATING PER MODE	BREAKER SIZE	ACCUGUIDE CABLE SIZE
SPD2	SOUTHERN TIER TECHNOLOGIES	T45120Y100AWA2S	208/120V	3	100/200kA	30A/3P	5 #10, 3/4" C.
SPD5	SOUTHERN TIER TECHNOLOGIES	T45120Y125ALAM1C	208/120V	3	125/250kA	60A/3P	5 #6, 1 1/2" C.

*ALL T45 SERIES SPD ENCLOSURES INSTALLED IN FOOD SERVICE AREAS (IE. KITCHENS, SNACK BARS, FOOD LABS, CULINARY ARTS ROOMS AND LIFE SKILLS ROOMS) SHALL BE RECESSED IN THE WALL. PROVIDE RECESSED WALL KIT #RKSS.

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL SCHEDULES

Drawing No.
E5.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 4:39:19 PM

Panelboard 1ELA

22000 A AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire | Mains Type: MCB | 400 A MCB -- 400 A BUS (Copper) | LUGS: -- -- | Mounting Stye: SURFACE
1 Section
Type 1 -Nema Rating

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	360 VA	R	R ELEC 133	12	20 A	1 2	20 A	12	RR & LOCKER RM LIGHTS	L	624 VA	
	500 VA	M	FACP	12	20 A	3 4	20 A	12	L	L	568 VA	
	438 VA	L	L	12	20 A	5 6	20 A	12	STOCK RM LIGHTS	L	160 VA	
	286 VA	L	CANOPY LIGHTS	12	20 A	7 8	20 A	12	CORRIDOR LIGHTS	L	532 VA	
	260 VA	L	EXTERIOR WALL SCONCES	12	20 A	9 10	20 A	12	CORRIDOR LIGHTS	L	368 VA	
	78 VA	L	CANOPY LIGHTS	12	20 A	11 12	20 A	12	ACP MDF 135	M	1500 VA	
	338 VA	L	CANOPY LIGHTS	12	20 A	13 14	20 A	12	Spare	--	0 VA	
	70 VA	L	EXIT SIGNS	12	20 A	15 16	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	17 18	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	19 20	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	21 22	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	23 24	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	25 26	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	27 28	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	29 30	20 A	12	Spare	--	0 VA	

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	360 VA	100.00%	360 VA	210.20A	(L)Lighting	3722 VA	125.00%	4653 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.5	(MT)Lrg. Motor			
	(M)Misc.	2000 VA	100.00%	2000 VA		(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 6082 VA VA = 17 A
Total Load (Diversified): 7013 VA VA = 19 A

Location of Panel: Space 21

Panelboard 1ELMS

22000 A AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire | Mains Type: MCB | 100 A MCB -- 100 A BUS (Copper) | LUGS: -- -- | Mounting Stye: SURFACE
1 Section
Type 1 -Nema Rating

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	500 VA	M	FACP	12	20 A	1 2	20 A	12	Spare	--	0 VA	
	180 VA	R	R UTILITY 221	12	20 A	3 4	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	5 6	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	7 8	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	9 10	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	11 12	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	13 14	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	15 16	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	17 18	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	19 20	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	21 22	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	23 24	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	25 26						
	0 VA	--	Spare	12	20 A	27 28	30 A	10	SPD-2	SP	0 VA	
	0 VA	--	Spare	12	20 A	29 30						

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	180 VA	100.00%	180 VA	210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.5	(MT)Lrg. Motor			
	(M)Misc.	500 VA	100.00%	500 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
					630.11B	(W) Welders			

Total Connected Load: 680 VA VA = 2 A
Total Load (Diversified): 680 VA VA = 2 A

Location of Panel: UTILITY 221

Panelboard 1ELVS

10000 A AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire | Mains Type: MCB | 100 A MCB -- 100 A BUS (Copper) | LUGS: -- -- | Mounting Stye: SURFACE
1 Section
Type 1 -Nema Rating

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	180 VA	R	R ELEC 313	12	20 A	1 2	20 A	12	Spare	--	0 VA	
	500 VA	M	FACP	12	20 A	3 4	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	5 6	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	7 8	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	9 10	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	11 12	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	13 14	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	15 16	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	17 18	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	19 20	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	21 22	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	23 24	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	25 26						
	0 VA	--	Spare	12	20 A	27 28	30 A	10	SPD-2	SP	0 VA	
	0 VA	--	Spare	12	20 A	29 30						

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	180 VA	100.00%	180 VA	210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.5	(MT)Lrg. Motor			
	(M)Misc.	500 VA	100.00%	500 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
					630.11B	(W) Welders			

Total Connected Load: 680 VA VA = 2 A
Total Load (Diversified): 680 VA VA = 2 A

Location of Panel: Space 7

Panelboard 1LA

22000 A AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire | Mains Type: MCB | 400 A MCB -- 400 A BUS (Copper) | LUGS: -- -- | Mounting Stye: SURFACE
2 Section
Type 1 -Nema Rating

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	180 VA	R	R KITCHEN 104	12	20 A	1 2	20 A	12	R BULLPEN 130	R	180 VA	
	180 VA	R	R KITCHEN 104	12	20 A	3 4	20 A	12	R BULLPEN 130	R	1080 VA	
	180 VA	R	R KITCHEN 104	12	20 A	5 6	20 A	12	FLOOR BOXES BULLPEN 130	R	1080 VA	
	180 VA	R	R Space 29	12	20 A	7 8	20 A	12	FLOOR BOXES BULLPEN 130	R	1080 VA	
	2280 VA	R; K	R PUBLIC RR 102, 103	12	20 A	9 10	20 A	12	FLOOR BOXES BULLPEN 130	R	1080 VA	
	1260 VA	R	R LOBBY/GALLERY 100	12	20 A	11 12	20 A	12	FLOOR BOXES BULLPEN 130	R	1080 VA	
	1440 VA	R	R COMMUNITY ROOM 106	12	20 A	13 14	20 A	12	FLOOR BOXES BULLPEN 130	R	1080 VA	
	720 VA	R	R VEST 107 &ASSEMBLY ST...	12	20 A	15 16	20 A	12	R RR & MENS LOCKER ROOM	R	1440 VA	
	1080 VA	R	R MEDIA ROOM 109	12	20 A	17 18	20 A	12	R STOCK ROOM 137	R	1440 VA	
	1260 VA	R	R CORRIDOR 112	12	20 A	19 20	20 A	12	R EXTERIOR & FIRE RISER...	R	1080 VA	
	360 VA	R	R OPEN OFFICE 116	12	20 A	21 22	20 A	12	R BULLPEN 130	R	1260 VA	
	720 VA	R	R COMMISSIONER'S OFFICE...	12	20 A	23 24	20 A	12	R Space 54	R	180 VA	
	720 VA	R	R SUPERINTENDENT'S...	12	20 A	25 26	20 A	12	ICE BULLPEN 130	K	1200 VA	
	1200 VA	R	COPIER...	12	20 A	27 28	20 A	12	REF BULLPEN 130	K	1200 VA	
	180 VA	R	R WORKROOM / BREAK...	12	20 A	29 30	20 A	12	R BULLPEN 130	R	180 VA	
	1200 VA	R	R WORKROOM/BREAK ROO...	12	20 A	31 32	20 A	12	R BULLPEN 130	R	180 VA	
	1080 VA	R	R CORRIDOR 121	12	20 A	33 34	20 A	12	R BULLPEN 130	R	180 VA	
	360 VA	R	R SUPERINTENDENT'S...	12	20 A	35 36	20 A	12	R LAUNDRY CUSTODIAL 134	R	180 VA	
	720 VA	R	R SUPERINTENDENT'S...	12	20 A	37 38						
	720 VA	R	R ROAD MANAGER OFFICE...	12	20 A	39 40	30 A	10	SPD2	SP	0 VA	
	900 VA	R	R ACCOUNT OFFICE 123	12	20 A	41 42						
	1080 VA	R	R Space 40	12	20 A	43 44	20 A	12	R LAUNDRY CUSTODIAL 134	R	180 VA	
	1440 VA	R	R CONFERENCE ROOM 127	12	20 A	45 46	20 A	12	WASHER LNDRY CUST 134	R	180 VA	
	360 VA	R	R OPEN OFFICE 120	12	20 A	47 48						
	1000 VA	K	DISHWASHER	12	20 A	49 50	30 A	10	DRYER LNDRY CUST 134	M	3000 VA	
	720 VA	R	R MDF 135	12	20 A	51 52	20 A	12	R WORKROOM/KITCHENETT...	R	180 VA	
	528 VA	F	EF-1/01	12	15 A	53 54	20 A	12	COPIER...	R	1200 VA	
	528 VA	F	EF-1/02	12	15 A	55 56	20 A	12	R WORKROOM/KITCHENETT...	R	180 VA	
	696 VA	F	KEF-1/01	12	15 A	57 58	20 A	12	REF WORKROOM /...	K	1200 VA	
	528 VA	F	EF-1/03	12	20 A	59 60	20 A	12	CANOPY LIGHTS	L	104 VA	
	225 VA	MT	EF-1/04	12	20 A	61 62	20 A	12	MOTORIZED DOOR	MT	1200 VA	
	360 VA	M	MOTORIZED DAMPERS	12	20 A	63 64	20 A	12	R ROOF	R	900 VA	
	3660 VA	H	UNIT HEATER 1/01	10	30 A	65 66	20 A	12	R ROOF	R	360 VA	
						67 68						
	3660 VA	C	ACCU-01	10	25 A	69 70	90 A	3	RTU-1	C	18194 VA	
						71 72						
	3660 VA	C	ACCU-02	10	25 A	73 74						
						75 76	150 A	1/0	RTU-2	C	34078 VA	
	3660 VA	C	FCU-01	10	25 A	77 78						
						79 80						
	3660 VA	C	FCU-02	10	25 A	81 82	40 A	8	FPT-1/08	H	11000 VA	
						83 84						
	12000 VA	H	FPT-1/01	8	45 A	85 86						
						87 88	30 A	10	FPT-1/09	H	7000 VA	
						89 90						
	3000 VA	H; M	FPT-1-02,03,04	8	35 A	91 92						
						93 94	40 A	8	FPT-1/10	H	11500 VA	
						95 96						
	7500 VA	F; H	FPT-1-05	10	30 A	97 98						
						99 ...	20 A	12	FPT-1/07 & FPT-1/04	Other: H	3500 VA	
						... ...	20 A	12	L	L	558 VA	
	5500 VA	F; H	FPT-1/06 & FPT-1/02	12	20 A	... ...	20 A	12	STOCK RM LIGHTS	L	224 VA	
						... ...	20 A	12	CANOPY LIGHTS	L	234 VA	
	360 VA	R	R MDF 135	12	20 A	... ...	20 A	12	GENERAL RM LIGHTING	L	1888 VA	
	3000 VA	M	R MDF 135	10	30 A	... ...	20 A	12	COMMUNITY ROOM 106	L	680 VA	
						... ...						
	180 VA	R	PROJECTOR COMM RM 106	12	20 A	... ...	20 A	12	CANOPY LIGHTS	L	338 VA	
	1500 VA	M	IDP MDF 135	12	20 A	... ...	20 A	12	GENERAL RM LIGHTING	L	426 VA	
	1200 VA	M	BOTTLE FILLER 131...	12	20 A	... ...	20 A	12	SINK / FLUSHOMETERS	M	250 VA	
	540 VA	R	R Space 52	12	20 A	... ...						
	400 VA	M	FLUSHOMETERS	12	20 A	... ...						
	200 VA	M	SINK SENSORS	12	20 A	... ...						
	0 VA	--	Spare	12	20 A	... ...						
	0 VA	--	Spare	12	20 A	... ...						
	0 VA	--	Spare	12	20 A	... ...						
	0 VA	--	Spare	12	20 A	... ...	20 A	12	Spare	--	0 VA

Panelboard DPA

42000 A AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire | Mains Type: MCB | 1200 A MCB -- | 1200 A BUS (Copper) -- | LUGS: -- -- | Mounting Stye: SURFACE

1 Section
Type 1 -Nema Rating

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
						1	2						
	34500 VA	Spare; L; SP; MT; M	1LS	(2) 4/0	600 A	3	4	600 A	(2) 4/0	1LA	Other; Spare; L; R;..	127139 VA	
						5	6						
	64800 VA	Spare; SP; M	1LS1	(2) 4/0	600 A	7	8						
						9	10						
						11	12						
						13	14						
						15	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						

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	35160 VA	64.22%	22580 VA	210.20A	(L)Lighting	5552 VA	125.00%	6940 VA
220.56	(K)Kitchen	7000 VA	65.00%	4550 VA		(EL)Ext. Ltg.			
220.60	(C)Cooling	66912 VA	100.00%	66912 VA	620.14	(E)Elevators			
220.60	(H)Heating	64660 VA	100.00%	0 VA		(WH)Wat. Htr.			
220.60	(F)Fans	2280 VA	100.00%	2280 VA	220.5	(MT)Lrg. Motor	3025 VA	109.92%	3325 VA
	(M)Misc.	106510 VA	100.00%	106510 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
					630.11B	(W) Welders			

Total Connected Load: 291099 VA VA = 808 A
Total Load (Diversified): 213097 VA VA = 591 A

Location of Panel: Space 21

Switchboard: ESA

120/208 Wye V, 3 Phase, 4 Wire | AIC 42,000
. Section | Enclsosure: Type 3R

Circuit Number	Load	Rating	Wiresize	Load Classification	Load (VA)	Notes
1	ATS-XA	1200 A	(2) 4/0	Other; Spare; L; R; SP...	291099 VA	
2	ATS-EMS	20 A	12	Spare; R; SP; M	680 VA	
3	ATS-XMS	20 A	12	L; R; SP; F; K; MT; M	54471 VA	
4						
5						
6						
7						
8						

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)
C	66912 VA	100.00%	66912 VA
F	5880 VA	100.00%	5880 VA
H	64660 VA	100.00%	64660 VA
K	8200 VA	65.00%	5330 VA
L	6448 VA	125.00%	8060 VA
M	135340 VA	100.00%	135340 VA
MT	3850 VA	107.79%	4150 VA
Other	443 VA	100.00%	443 VA
R	54960 VA	59.10%	32480 VA
SP	0 VA	0.00%	0 VA
Total Connected Load...	346250 VA	**Total Demand Load (VA):**	258152 VA
		Total Current:	717 A
		Spare Capacity:	-1076 A

Switchboard: MSA

120/208 Wye V, 3 Phase, 4 Wire | AIC 65,000
. Section | Enclsosure: Type 1

Circuit Number	Load	Rating	Wiresize	Load Classification	Load (VA)	Notes
1	ATS-XA	1200 A	(2) 4/0	Other; Spare; L; R; SP...	291099 VA	
2	ATS-EA	100 A	3	Spare; L; R; M	6082 VA	
3	ATS-XMS	600 A	(2) 4/0	L; R; SP; F; K; MT; M	54471 VA	
4	ATS-EMS	100 A	3	Spare; R; SP; M	680 VA	
5						
6	1LVS	400 A	600	Spare; L; R; SP; M	40692 VA	
7						
8	Spare	225 A	4/0	--	0 VA	

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)
C	66912 VA	100.00%	66912 VA
F	5880 VA	100.00%	5880 VA
H	64660 VA	100.00%	64660 VA
K	8200 VA	65.00%	5330 VA
L	15318 VA	125.00%	19148 VA
M	170724 VA	100.00%	170724 VA
MT	3850 VA	107.79%	4150 VA
Other	443 VA	100.00%	443 VA
R	57480 VA	58.70%	33740 VA
SP	0 VA	0.00%	0 VA
Total Connected Load...	393024 VA	**Total Demand Load (VA):**	305884 VA
		Total Current:	849 A
		Spare Capacity:	-1208 A

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL SCHEDULES

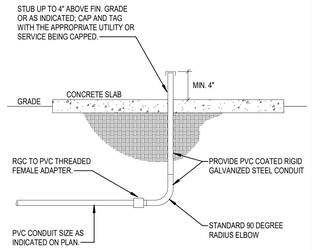
Drawing No.
E5.03

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

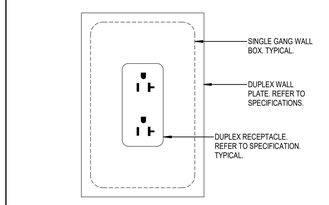
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

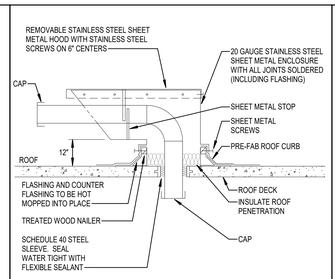
5/4/2026 4:39:35 PM



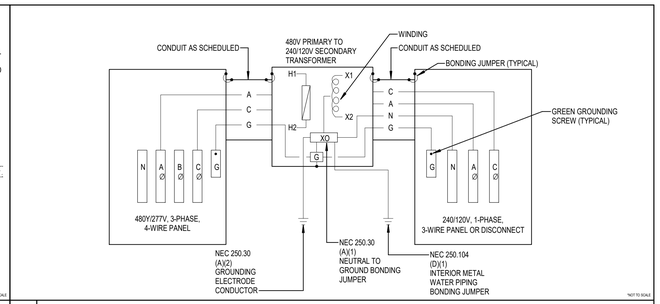
1 CONDUIT STUB-UP



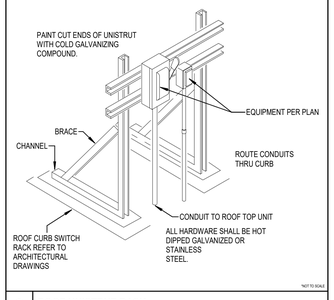
6 RECEPTACLE MOUNTING



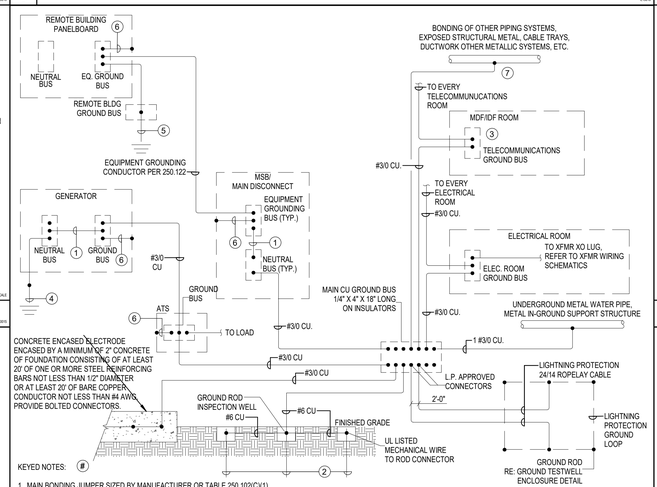
9 ROOF CONDUIT PENETRATION



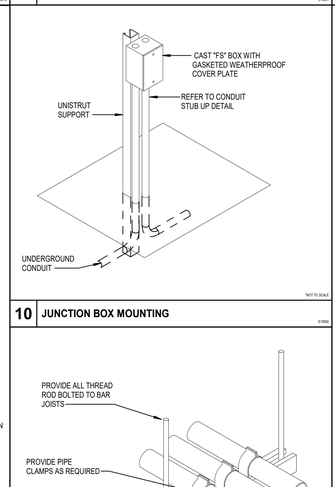
14 1-PHASE TRANSFORMER WIRING SCHEMATIC



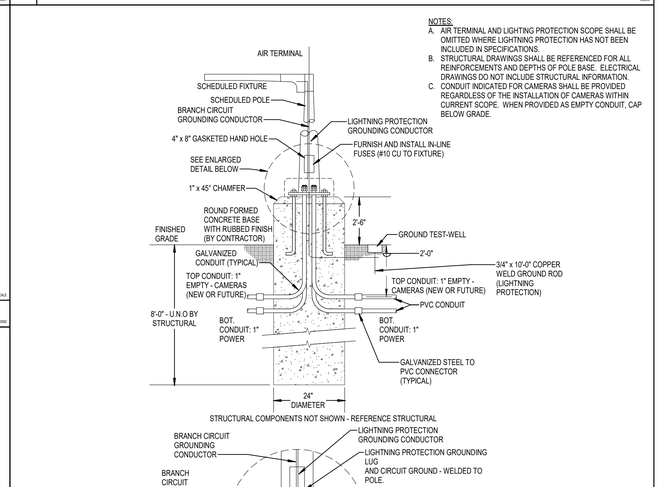
2 ROOF UNISTRUT RACK



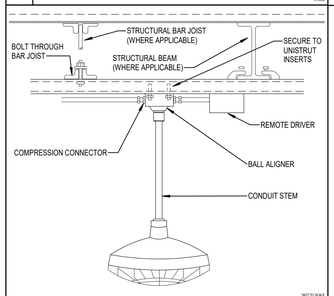
7 GROUNDING ELECTRODE SYSTEM AND BONDING DETAIL - SINGLE SERVICE



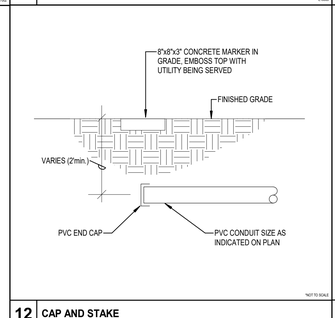
10 JUNCTION BOX MOUNTING



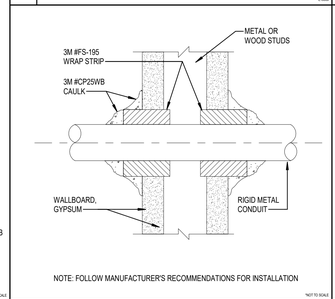
15 CONCRETE POLE BASE 1



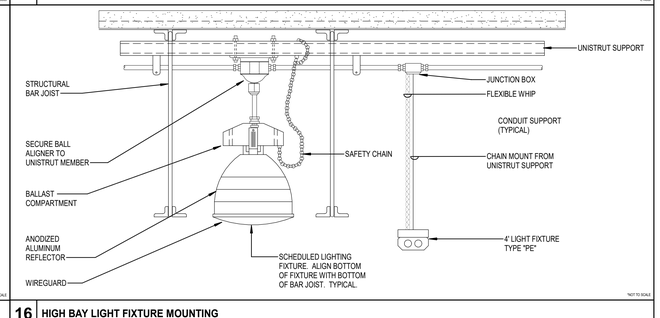
4 HIGH BAY PENDANT MOUNTING



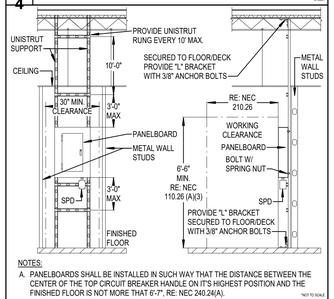
8 TYPICAL RACEWAY CONFIGURATION - CONDUIT



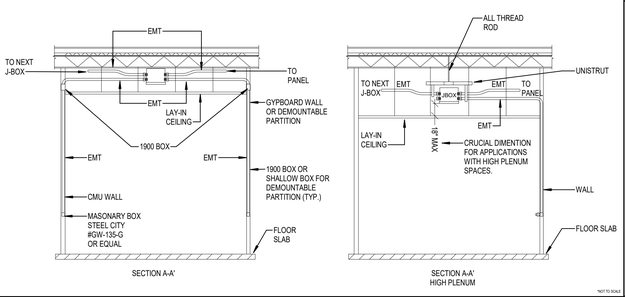
12 CAP AND STAKE



16 HIGH BAY LIGHT FIXTURE MOUNTING

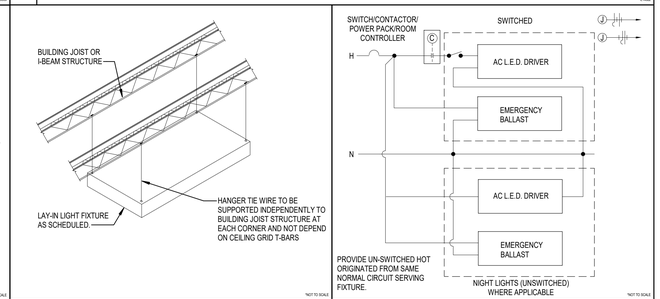


5 PANELBOARD MOUNTING



8 TYPICAL RACEWAY CONFIGURATION - CONDUIT

13 2 HR. GYPSUM WALLBOARD PIPE PENETRATION



17 LIGHTING FIXTURE SUPPORT

18 EMERGENCY BATTERY WIRING

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL DETAILS

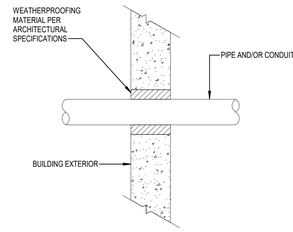
Drawing No.
E6.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

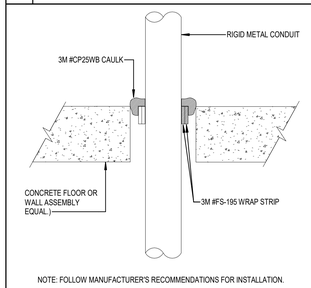
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 4:39:45 PM

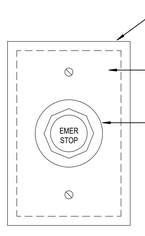


1 PIPE AND/OR CONDUIT PENETRATION E1605



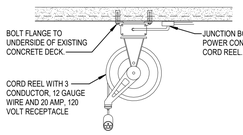
NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

2 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE E1605

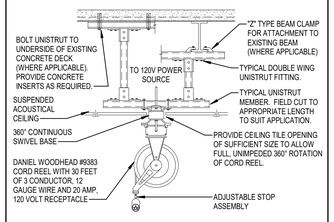


3 EMERGENCY STOP BUTTON E1606

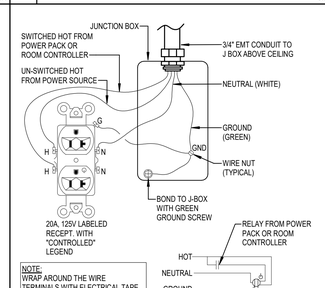
4 ELEC. DRINKING FOUNTAIN E1606



5 CORD REEL MOUNTING - CONCRETE DECK E1607

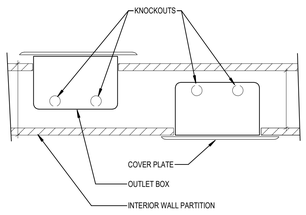


6 OVERHEAD REEL MOUNTING E1605

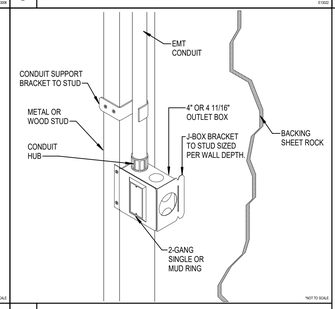


7 SWITCHED RECEPTACLE E1605

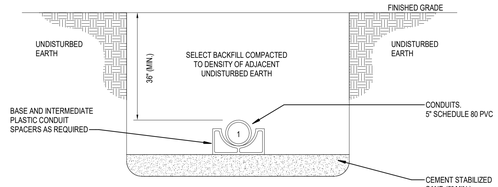
8 ELECTRICAL DROP CORD E1606



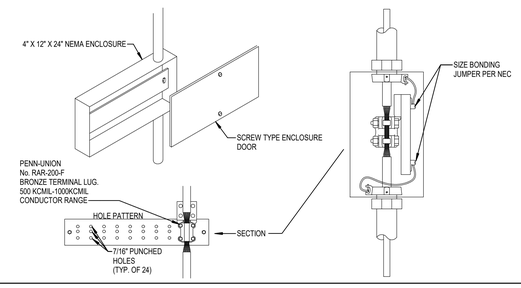
9 BACK - TO - BACK OUTLETS E1602



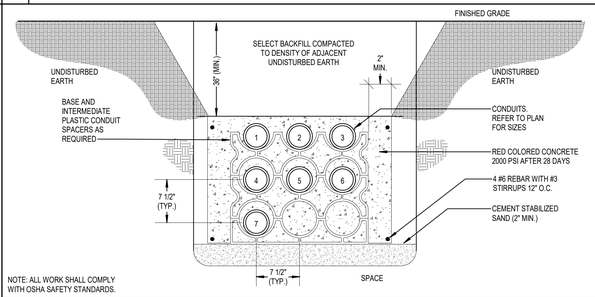
10 J-BOX STUD E1606



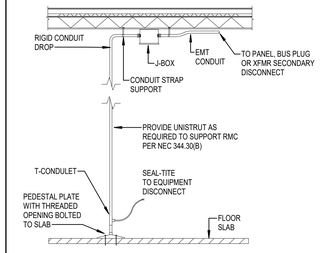
11 PRIMARY SERVICE TRENCH #1 E1602



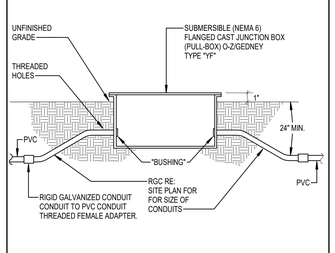
12 TYPICAL GROUNDING BUS E1602



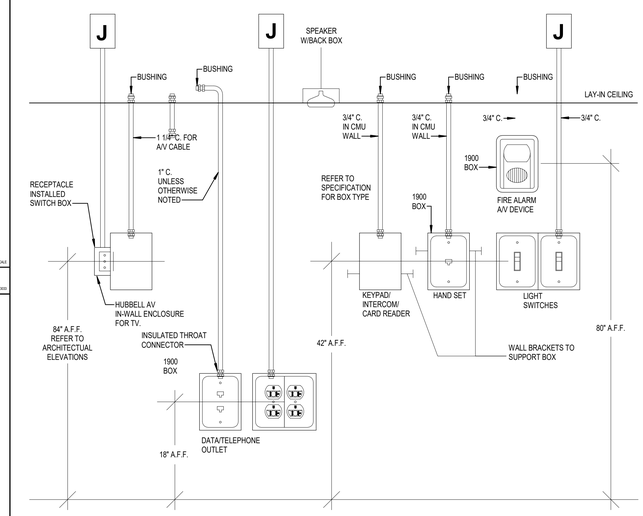
13 SECONDARY SERVICE 9 E2606



14 RIGID CONDUIT DROP TO EQ. DISCONNECT E2606



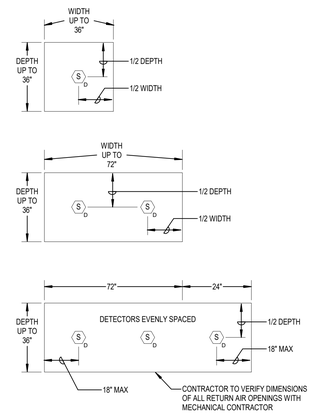
15 PULL BOX E2606



NOTE: COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

16 TYPICAL DEVICE ELEVATIONS E1601

1. DUCT DETECTORS LISTED FOR THE VELOCITY PRESENT SHALL BE INSTALLED AT THE RETURN AIR OPENING WHERE THE RETURN AIR ENTERS THE COMMON RETURN AIR SYSTEM.
2. THE DETECTORS SHOULD BE INSTALLED UP TO 12" IN FRONT OF OR BEHIND THE OPENING AND SPACED ACCORDING TO THE FOLLOWING EQUIPMENT DIMENSIONS.
   a. WIDTH:
      UP TO 36": ONE DETECTOR CENTERED IN THE OPENING,
      UP TO 72": TWO DETECTORS LOCATED AT THE 1/4 POINTS OF THE OPENING
      OVER 72": ONE ADDITIONAL DETECTOR FOR EACH FULL 24" OF ADDITIONAL OPENING WIDTH
   b. DEPTH: THE NUMBER AND SPACING OF DETECTORS IN THE VERTICAL DEPTH OF THE OPENING SHALL BE THE SAME AS THOSE GIVEN FOR THE HORIZONTAL WIDTH INDICATED ABOVE.
   c. ORIENTATION: DETECTORS SHALL BE ORIENTED IN THE MOST FAVORABLE POSITION FOR SMOKE ENTRY WITH RESPECT TO THE DIRECTION OF AIR FLOW.



17 RETURN AIR OPENING SMOKE DETECTORS E1602

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

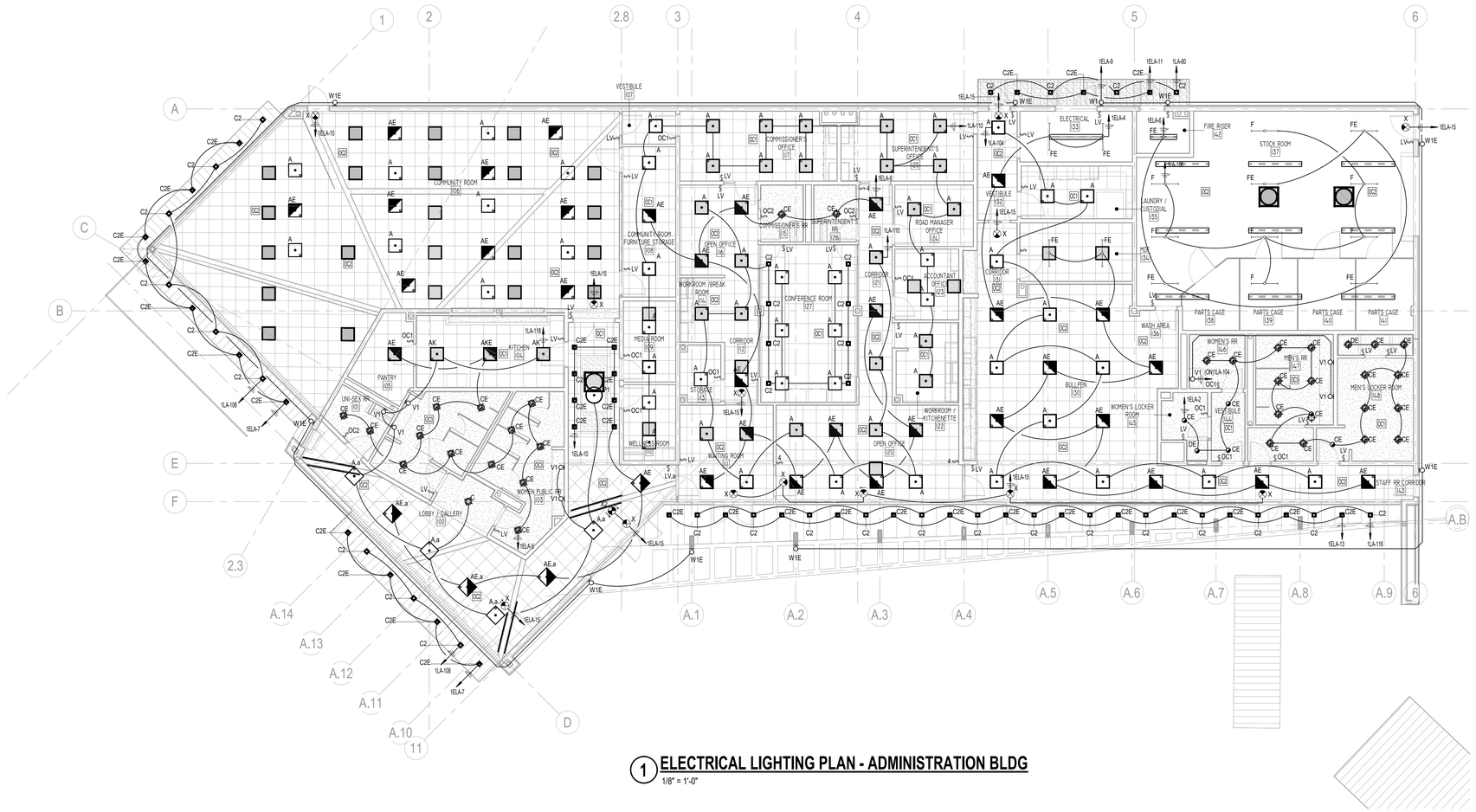
Date: 95% CONSTRUCTION DOCS 05-04-2026
Project No. 3015
Drawn By: DBR
Checked By: DBR
Sheet Title: ELECTRICAL DETAILS
Drawing No. **E6.02**

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 4:39:56 PM



1 ELECTRICAL LIGHTING PLAN - ADMINISTRATION BLDG

1/8" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING, PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL LIGHTING PLAN
LEVEL 1 - ADMINISTRATION BLDG

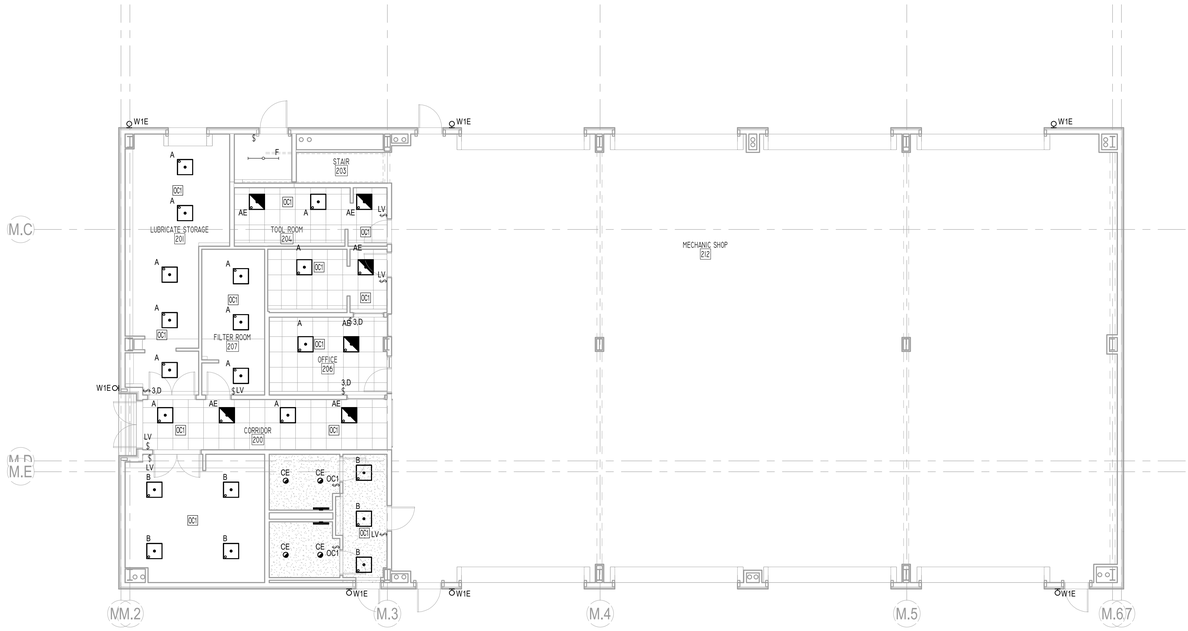
Drawing No.
EL2.11

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

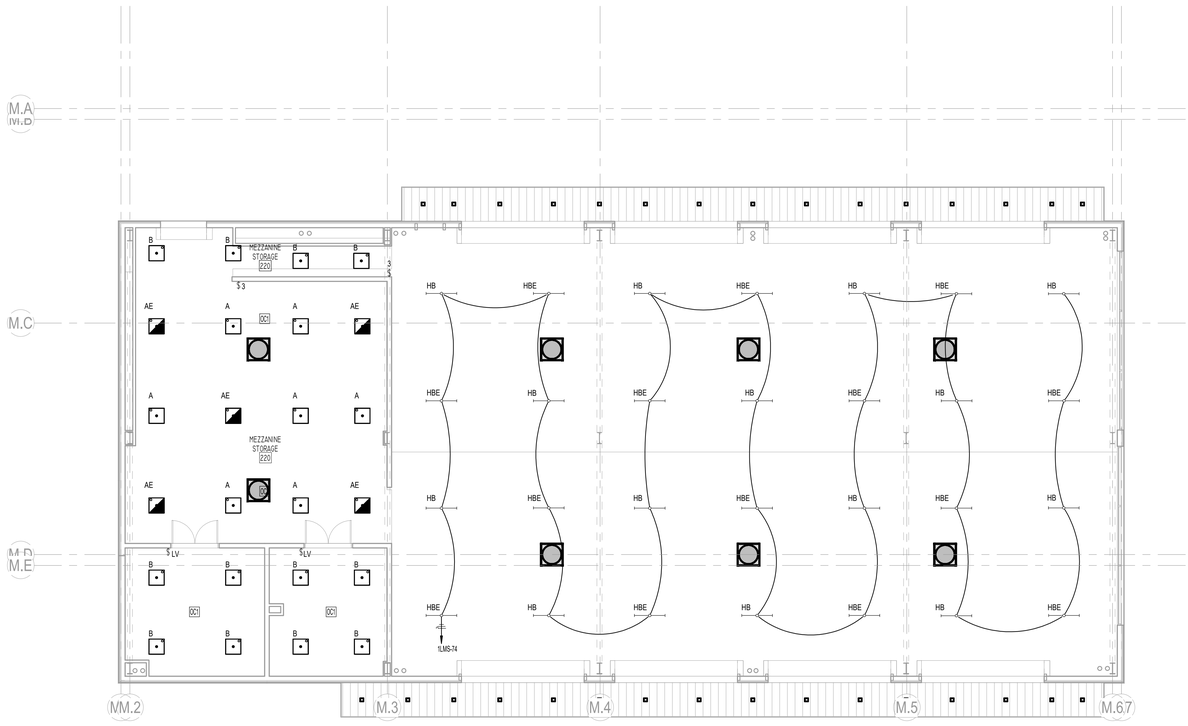
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 4:40:24 PM



1 **ELECTRICAL LIGHTING PLAN - MECHANIC'S SHOP**
1/8" = 1'-0"



2 **ELECTRICAL LIGHTING PLAN - MECHANIC'S SHOP - MEZZANINE**
1/8" = 1'-0"

5/4/2026 4:40:47 PM

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING. PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

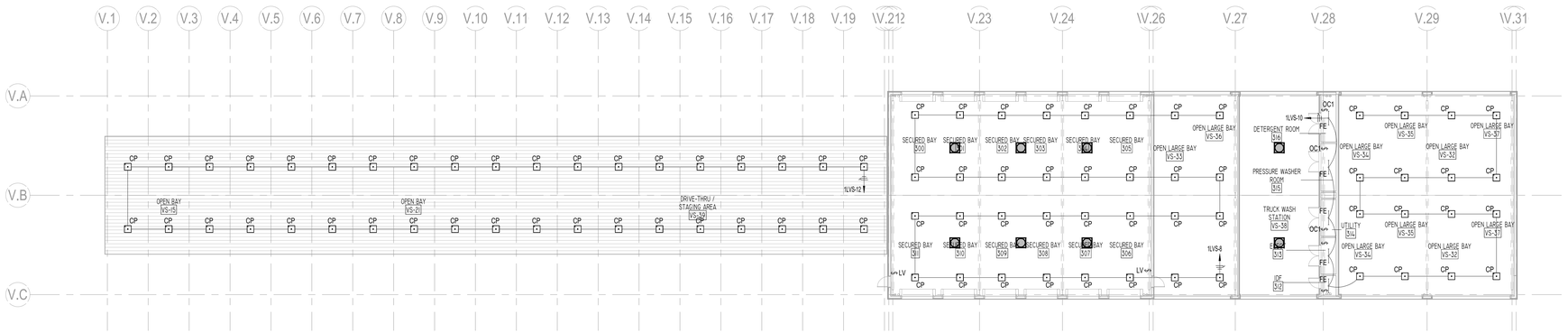
Sheet Title:
ELECTRICAL LIGHTING PLAN
LEVEL 1 - MECHANIC'S SHOP

Drawing No.
EL2.12

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB



1 ELECTRICAL LIGHTING PLAN - VEHICLE STORAGE BLDG

1/16" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL LIGHTING PLAN LEVEL 1 - VEHICLE STORAGE

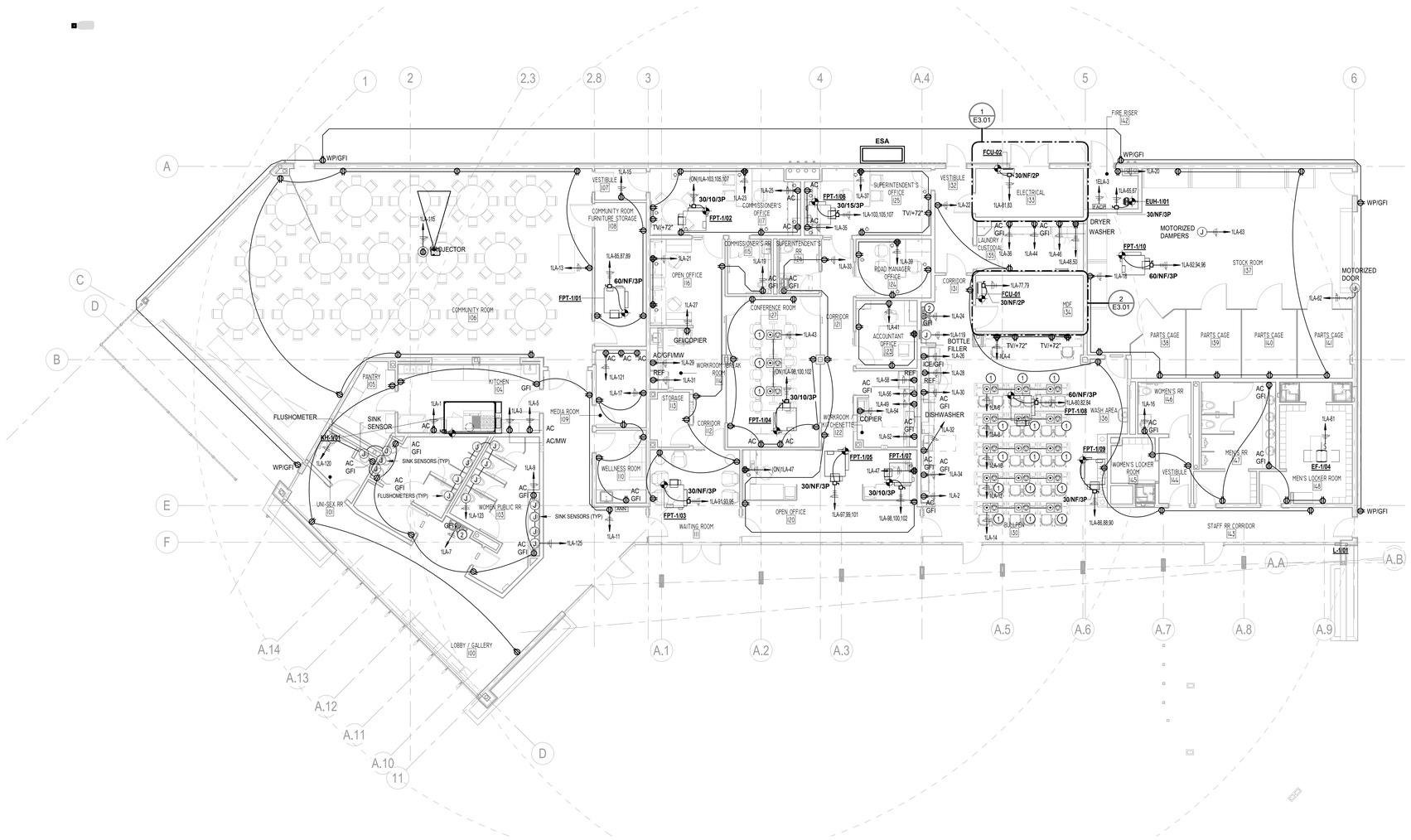
Drawing No.
EL2.13

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 4:40:59 PM



1 ELECTRICAL POWER PLAN - ADMINISTRATION BLDG

1/8" = 1'-0"

ELECTRICAL KEYED NOTES

1 PROVIDE HUBBELL: FLOOR BOX MODEL #CFB3G30RCR WITH SUB-PLATES #FBMPREC & #FBMP6KS. COORDINATE DEVICE COVER/FINISH WITH ARCHITECT PRIOR TO ORDERING. SAW CUT SLAB AND ROUTE (1) 3/4" CONDUIT FOR POWER & (1) 1 1/4" CONDUIT FOR DATA/AV BELOW SLAB. TURN UP IN WALL AND ROUTE TO PLENUM. PATCH SLAB TO MATCH EXISTING. PROVIDE PULL STRING IN DATA/AV CONDUIT. COORDINATE EXACT LOCATION WITH TENANT/ARCHITECT PRIOR TO ROUGH-IN.

2 PROVIDE RECEPTACLE FOR DRINKING FOUNTAIN AT THIS LOCATION. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION.

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

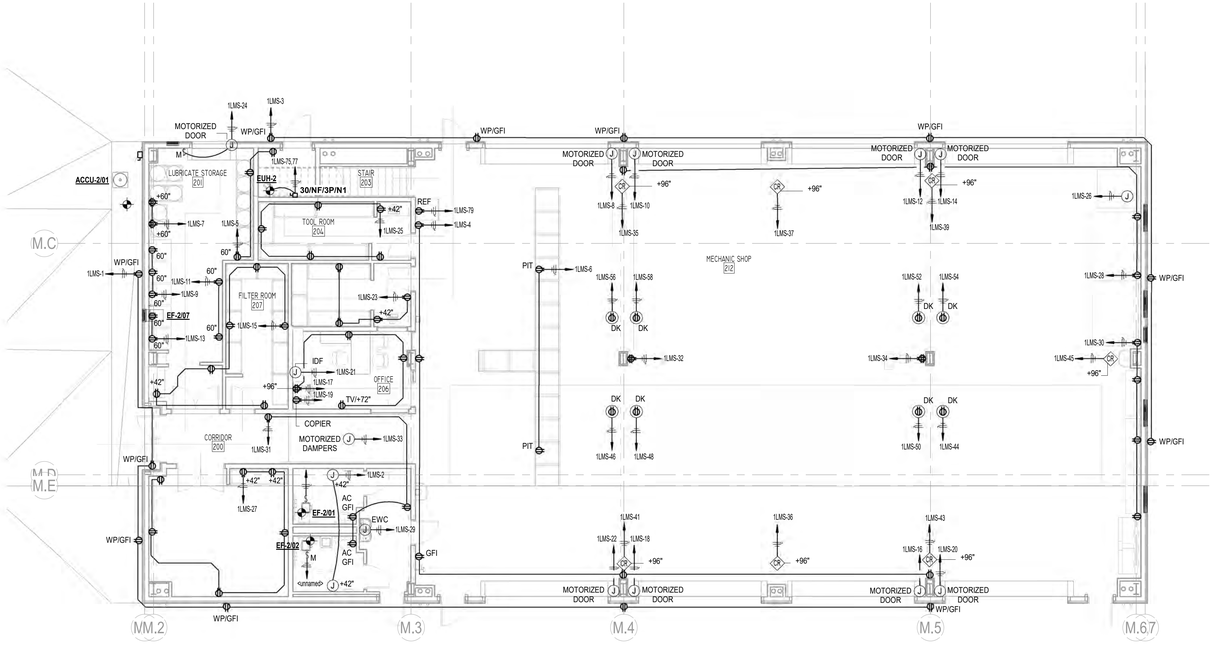
Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL POWER PLAN
LEVEL 1 - ADMINISTRATION BLDG

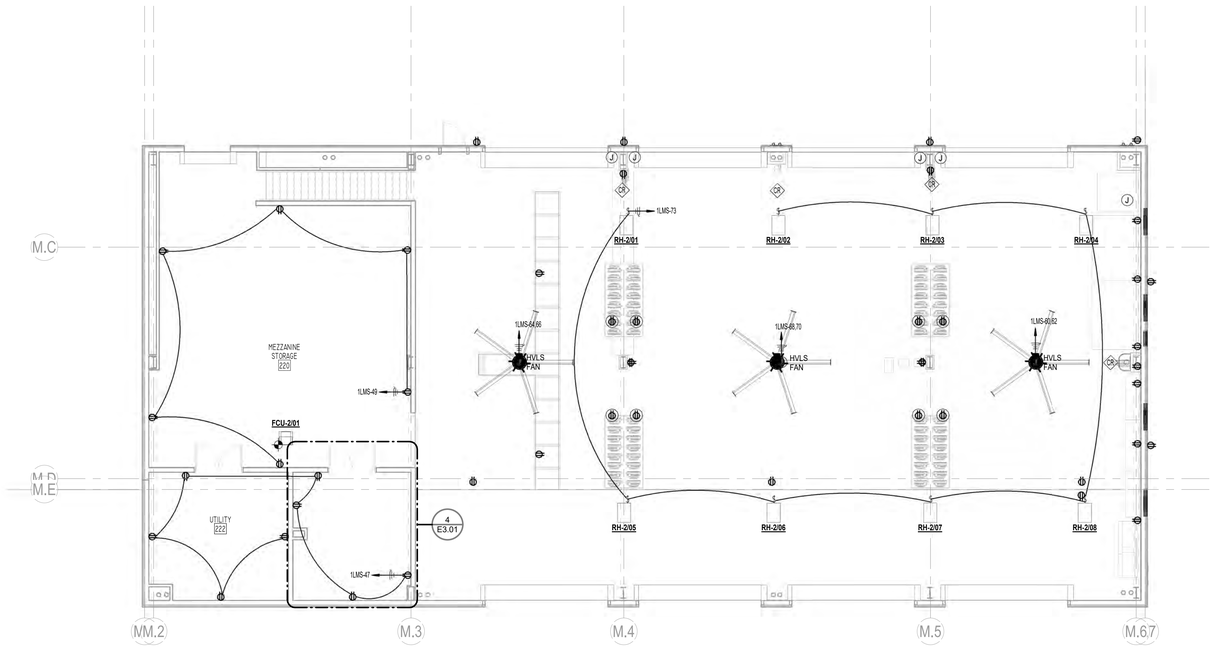
Drawing No.
EP2.11

5/4/2026 5:41:52 PM



1 ELECTRICAL POWER PLAN - MECHANIC'S SHOP

1/8" = 1'-0"



3 ELECTRICAL POWER PLAN - MECHANIC'S SHOP - MEZZANINE

1/8" = 1'-0"

5/4/2026 5:34:38 PM

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING. PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL POWER PLAN
LEVEL 1 - MECHANIC'S SHOP

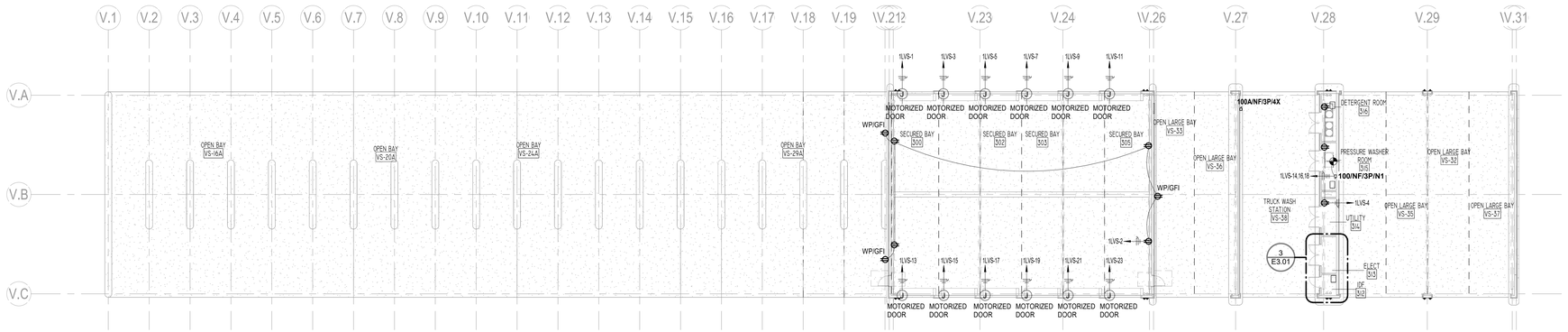
Drawing No.

EP2.12

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB



1 ELECTRICAL POWER PLAN - VEHICLE STORAGE BLDG

1/16" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL POWER PLAN LEVEL 1 - VEHICLE STORAGE BLDG

Drawing No.

EP2.13

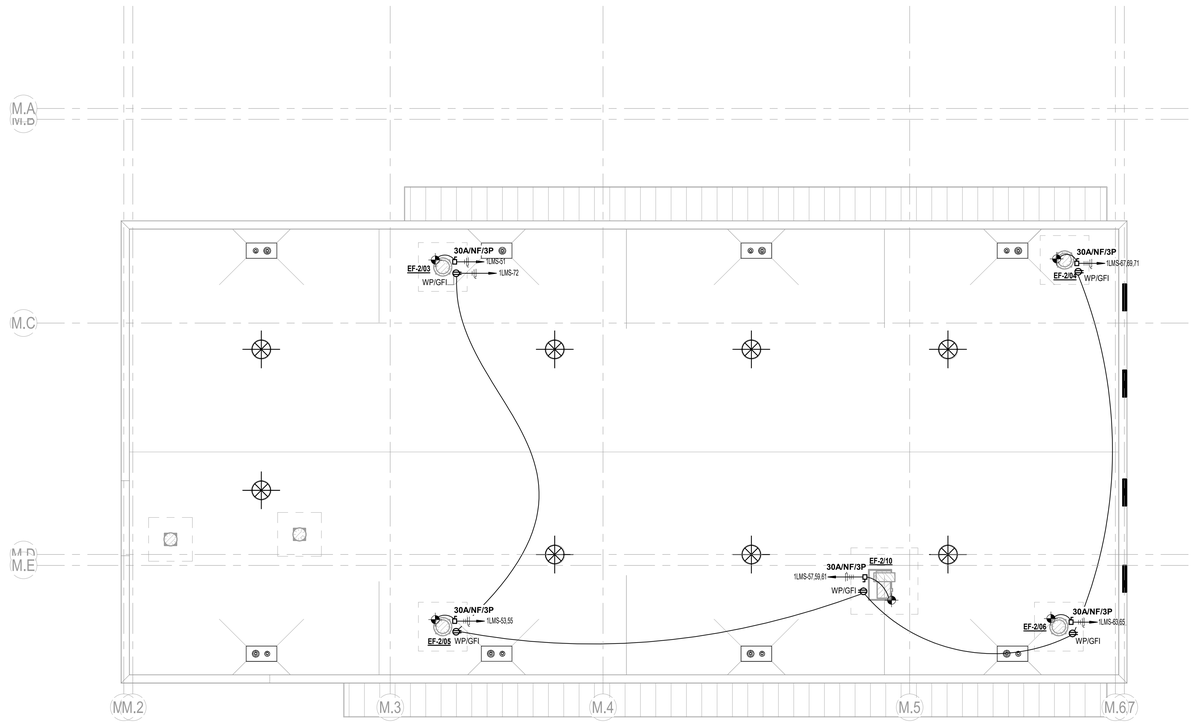
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f

TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:25:17 PM



1 ELECTRICAL ROOF PLAN - MECHANIC'S SHOP

1/8" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL ROOF PLAN
LEVEL 1 - MECHANIC'S SHOP

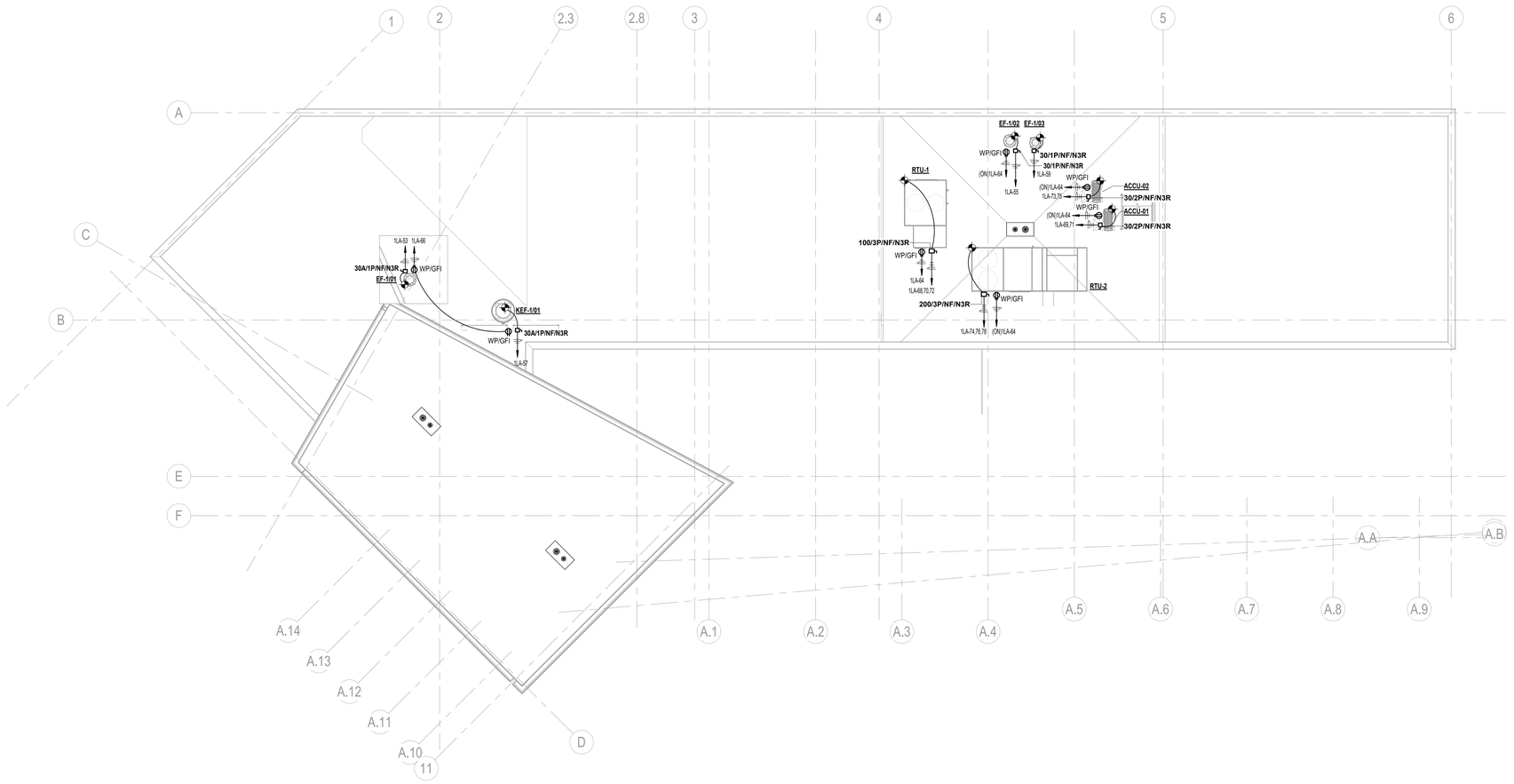
Drawing No.
EP2.31

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:25:20 PM



1 ELECTRICAL ROOF PLAN - ADMINISTRATION BLDG

1/8" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
ELECTRICAL ROOF PLAN
LEVEL 1 - ADMINISTRATION BUILDING

Drawing No.
EP2.32

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 5:25:22 PM

TECHNOLOGY LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	▽	INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" EMT CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. SOME EXISTING BUILDINGS MAY REQUIRE SURFACE MOUNTED RACEWAY. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL RACEWAY AS SPECIFIED AND DESIGNATE IN THE ELECTRICAL CONTRACT DOCUMENTS. SYSTEM INSTALLER TO PROVIDE AND INSTALL A PLASTIC PROTECTIVE BUSHING ON EACH CONDUIT STUB-OUT, TO PREVENT CABLE DAMAGE.
	▽	INDICATES THE LOCATION OF A FLOOR MOUNTED TECHNOLOGY OUTLET. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A FLOOR BOX WITH ONE (1) 1" CONDUIT PER EVERY SIX (6) CABLES INSTALLED. ALL CONDUITS SHALL ROUTE FROM THE FLOOR BOX, DIRECTLY TO THE WALL INDICATED AND STUB-UP INTO THE NEAREST ACCESSIBLE PLENUM CEILING
	⌖	INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ELECTRICAL CONTRACTOR SHALL ROUTE ONE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT.
	'D#'	DESIGNATES THAT THE ASSOCIATED TECHNOLOGY OUTLET IS INTENDED FOR THE USE OF A NETWORK CONNECTION. THE '#' SHALL BE REPLACED WITH NUMERIC TEXT THAT IDENTIFIES THE TOTAL NUMBER OF CATEGORY 6, NETWORK CABLES THAT ARE TO BE INSTALLED AT THE TECHNOLOGY OUTLET LOCATION. CONTRACTOR TO PROVIDE AND INSTALL CATEGORY 6 CABLES, CATEGORY 6 CONNECTORS, STAINLESS STEEL FACEPLATES WITH IDENTIFICATION WINDOWS, LABELS, BLANK INSERTS, AND ANY OTHER MATERIALS REQUIRED TO FURNISH A COMPLETE FUNCTIONAL AND TESTED OUTLET LOCATION. ALL FACEPLATES PROVIDED SHALL CONTAIN A MINIMUM 4-PORTS AND SHALL BE APPROPRIATELY SIZED TO ACCOMMODATE THE NUMBER OF JACKS BEING INSTALLED AT THIS TECHNOLOGY OUTLET LOCATION. MAXIMUM OF SIX (6) DATA CABLES PER OUTLET. PROVIDE BLANK INSERTS IN ALL UNUSED PORTS ON FACEPLATES.
	'W'	DESIGNATES THAT THE ASSOCIATED TECHNOLOGY OUTLET IS INTENDED FOR THE USE OF A WALL MOUNTED TELEPHONE CONNECTION. CONTRACTOR TO PROVIDE AND INSTALL ONE (1) CATEGORY 6 CABLE, ONE (1) CATEGORY 6 CONNECTOR, STAINLESS STEEL WALL TELEPHONE FACEPLATE, LABELS, AND ANY OTHER MATERIALS REQUIRED TO FURNISH A COMPLETE FUNCTIONAL AND TESTED EQUIPMENT OUTLET AT EACH LOCATION SHOWN. CONTRACTOR SHALL MOUNT THIS OUTLET AT +42" AFF AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 8" OF CLEARANCE ON ALL FOUR SIDES OF THE BACK BOX. OUTLETS SHALL REMAIN CLEAR OF ROOM DOORS, CABINET DOORS, APPLIANCE DOORS, AND SLIDING DRAWERS.
	'AP'	DESIGNATES THAT THE ASSOCIATED TECHNOLOGY OUTLET IS INTENDED FOR THE USE OF A WIRELESS ACCESS POINT CONNECTION. CONTRACTOR TO PROVIDE AND INSTALL ONE (1) CATEGORY 6 CABLE, ONE (1) CATEGORY 6 CONNECTOR, STAINLESS STEEL FACEPLATE WITH IDENTIFICATION WINDOWS, LABELS, AND ANY OTHER MATERIALS REQUIRED TO FURNISH A COMPLETE FUNCTIONAL AND TESTED EQUIPMENT OUTLET AT EACH LOCATION SHOWN. REFERENCE SPECIFICATIONS FOR PATCH CABLE REQUIREMENTS.
	⌖	INDICATES THE LOCATION OF AN IP VIDEO SURVEILLANCE CAMERA. CONTRACTOR TO PROVIDE AND INSTALL CATEGORY 6 NETWORK CABLES, CATEGORY 6 CONNECTORS, STAINLESS STEEL FACEPLATES WITH IDENTIFICATION WINDOWS, LABELS, BLANK INSERTS, AND ANY OTHER MATERIALS REQUIRED TO FURNISH A COMPLETE FUNCTIONAL AND TESTED OUTLET LOCATION. ALL FACEPLATES PROVIDED SHALL SHALL BE APPROPRIATELY SIZED TO ACCOMMODATE THE NUMBER OF CIRCUITS BEING INSTALLED AT THIS OUTLET LOCATION. REFERENCE SPECIFICATIONS FOR PATCH CABLE REQUIREMENTS.
		INDICATES THAT THE ASSOCIATED TECHNOLOGY OUTLET IS INTENDED FOR FUTURE USE. CONTRACTOR TO PROVIDE STAINLESS STEEL, SINGLE-GANG WALL PLATE AT ALL LOCATIONS.

NOTES:
REFERENCE TECHNOLOGY GENERAL NOTES, PLAN KEYED NOTES, AND ALL OTHER SYSTEM LEGENDS/NOTES. THE STRUCTURED CABLING SYSTEM CONTRACTOR SHALL PROVIDE AND INSTALL CATEGORY 6 CABLE TO ALL SYSTEMS' EQUIPMENT REQUIRING NETWORK CONNECTIVITY.

VIDEO SURVEILLANCE LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	⌖	INTERIOR/EXTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA
	⌖	INTERIOR/EXTERIOR CEILING/CANOPY MOUNTED VIDEO SURVEILLANCE CAMERA
	VRS	VIDEO RECORDING SERVER. REFERENCE SPECIFICATIONS FOR INFORMATION CONCERNING ANALOG OR IP BASED TYPE SYSTEM.
	#MU	INDICATES THE LOCATION OF A VIDEO SURVEILLANCE MAIN

NOTES:
1. REFERENCE VIDEO SURVEILLANCE SCHEDULE AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

INTRUSION DETECTION LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	IDP	DESIGNATES THE LOCATION OF THE INTRUSION DETECTION SYSTEM, CONTROL PANEL, ELECTRICAL CONTRACTOR TO PROVIDE 120V POWER TO PANEL
	DC	FLUSH MOUNTED MAGNETIC DOOR CONTACT.
	SDC	SURFACE MOUNTED MAGNETIC DOOR CONTACT.
	ODC	OVERHEAD DOOR, SURFACE MOUNTED DOOR CONTACT.
	KP	INTRUSION DETECTION SYSTEM ARM/DISARM KEYPAD.
	M	STANDARD RANGE WALL MOUNTED MOTION DETECTOR.
	M	MEDIUM RANGE WALL MOUNTED MOTION DETECTOR.
	M	LONG RANGE WALL MOUNTED MOTION DETECTOR.
	M	CEILING MOUNTED, 360° MOTION DETECTOR.
	R	RELAY/MONITOR MODULE
	DB	DURESS BUTTON
	WSR	WIRELESS SECURITY RECEIVER. ELECTRICAL CONTRACTOR TO PROVIDE ONE (1) SINGLE GANG BACK BOX WITH A 1" CONDUIT ROUTING TO THE NEAREST ACCESSIBLE CEILING. MOUNT AT 12' BELOW THE FINISHED CEILING, BUT DO NOT EXCEED 12'-0" AFF.
	GB	CEILING MOUNTED GLASS BREAK DETECTOR

NOTES:
1. REFERENCE ACCESS CONTROL SCHEDULE, DIVISION 8 AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

ACCESS CONTROL LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	CR	WALL OR MULLION MOUNTED ACCESS CONTROL PROXIMITY CARD READER.
	CR	ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.
	DR	DOOR RELEASE BUTTON
	PIR	MOTION REQUEST TO EXIT DEVICE
	ACP	DESIGNATES THE LOCATION OF THE ACCESS CONTROL SYSTEM, CONTROL PANEL, ELECTRICAL CONTRACTOR TO PROVIDE 120V, POWER TO PANEL. PROVIDE NETWORK CABLE TO PANEL AND COORDINATE WITH THE OWNER'S TECHNOLOGY DEPARTMENT ON ACQUIRING AN IP ADDRESS.
	DS	WALL OR MULLION MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.
	DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.
	MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.
	PB	ADA AUTO DOOR OPEN BUTTON. SHOWN FOR REFERENCE ONLY, BUTTON AND AUTO DOOR OPERATOR PROVIDED AND INSTALLED BY THE DOOR SYSTEM INSTALLER.
	DO	AUTO DOOR OPERATOR. OPERATOR TO BE PROVIDED AND INSTALLED BY THE DOOR SYSTEM INSTALLER.
	LA	WALL MOUNTED, LOCAL ALARM SOUNDER.
	DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR. FLUSH MOUNTED IN DOOR FRAME, UNLESS NOTED OTHERWISE

NOTES
1. REFRENCE ACCESS CONTROL SCHEDULE, DETAILS, AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

AUDIO/VIDEO LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	'#MP'	INDICATES THE LOCATION OF A VIDEO PROJECTOR # TO BE REPLACED WITH "C" OR "W". "C" INDICATES THAT THE DEVICE IS A CEILING MOUNTED DEVICE AND "W" INDICATES IT IS TO BE WALL MOUNTED. CONTRACTOR TO PROVIDE AND INSTALL A PROJECTOR, CEILING OR WALL MOUNTING KIT, AND PATCH CABLES AS REQUIRED TO CONNECT AT BOTH ENDS.
	'AV-'#	INDICATES THAT THE DESIGNATED TECHNOLOGY OUTLET IS INTENDED FOR AN AUDIO/VIDEO (A/V) INPUT. CONTRACTOR TO PROVIDE AND INSTALL A FLOOR MOUNTED OR WALL MOUNTED BOX AS INDICATED. TWO (2) 1.25" CONDUITS FROM THE BOX TO THE NEAREST, PLENUM ACCESSIBLE CEILING WITHIN THE SAME ROOM. ALL FLOOR AND WALL MOUNTED BOXES SHALL BE A MINIMUM OF 2-GANGS. '# - WHEN REPLACED WITH A '1' (AV-1) ONLY, THE OUTLET SHALL BE A STANDALONE, LOCAL INPUT TIED TO A LOCAL VIDEO DISPLAY (FSD, CMP, WMP, AV-2, ETC.). THIS OUTLET WILL NOT BE ASSOCIATED WITH ANY SYSTEM FOR ROUTING TO DISPLAYS LOCATED IN ANY OTHER PORTION OF THE PROJECT. IF NOT REPLACED WITH A '1' SEE THE NOTES AT THE BOTTOM OF THE LEGEND FOR ADDITIONAL INSTRUCTIONS.
	'FSD-'#	INDICATES THE LOCATION OF A FLAT PANEL VIDEO DISPLAY. CONTRACTOR TO PROVIDE AND INSTALL TWO (2) CATEGORY 6 UTP NETWORK CABLE TO ALL LOCATIONS SHOWN ON THE ENTIRE PROJECT. '# - WHEN REPLACED WITH A '1' (FSD-1) ONLY, THE OUTLET SHALL BE A STANDALONE AND ONLY HAVE THE CATEGORY 6 CABLE ROUTED TO IT, FROM THE MDF/IDF SERVING THE DEVICES AREA ROOM. '# - WHEN REPLACED WITH A '2' (FSD-2) ONLY, THE OUTLET SHALL HAVE THE CATEGORY 6 CABLE ROUTED TO IT, FROM THE MDF/IDF SERVING THE DEVICES AREA, AND THE CABLING FROM THE ASSOCIATED AV-1. EACH FSD OUTLET SHALL BE A 2-GANG BOX AND TWO (2) 1.25" CONDUITS STUBBING INTO THE ROOMS ACCESSIBLE CEILING. PROVIDE ONE DOUBLE-GANG FACEPLATE WITH TWO (2) DECORA PORTS. PROVIDE A DECORA STYLE INSERT THAT ACCEPTS THE STYLE OF DATA JACK BEING USED FOR STRUCTURED CABLING. WHEN THERE IS A LOCAL A/V INPUT ASSOCIATED WITH THE DISPLAY, PROVIDE A DECORA INSERT THAT CONFORMS WITH THE SYSTEMS SPECIFIED. OTHERWISE PROVIDE A BLANK INSERT IN THE SECOND PORT.
	'IVD'	INDICATES THE LOCATION OF A WALL MOUNTED, INTERACTIVE VIDEO DISPLAY. PROVIDE AND INSTALL A/V CABLE FROM THE ASSOCIATED AV-1 AS PER SYSTEM SPECIFICATIONS. RACEWAY SHALL CONSIST OF A 2-GANG BOX AND TWO (2) 1.25" CONDUITS STUBBING INTO THE ROOMS ACCESSIBLE CEILING. PROVIDE ONE DOUBLE-GANG FACEPLATE WITH TWO (2) DECORA PORTS. PROVIDE A DECORA STYLE INSERT THAT ACCEPTS THE STYLE OF DATA JACK BEING USED FOR STRUCTURED CABLING. WHEN THERE IS A LOCAL A/V INPUT ASSOCIATED WITH THE DISPLAY, PROVIDE A DECORA INSERT THAT CONFORMS WITH THE SYSTEMS SPECIFIED. OTHERWISE PROVIDE A BLANK INSERT IN THE SECOND PORT.
	'USB-T'	INDICATES THE LOCATION OF A USB INPUT PLATE THAT SHALL TRANSMIT USB SIGNAL TO THE ASSOCIATED USB OUTPUT PLATE. RACEWAY SHALL CONSIST OF ONE (1) 1" CONDUIT AND A SINGLE GANG BACK BOX.
	'USB-R'	INDICATES THE LOCATION OF A USB OUTPUT PLATE THAT SHALL RECEIVE USB SIGNAL FROM THE USB ASSOCIATED INPUT PLATE. RACEWAY SHALL CONSIST OF ONE (1) 1" CONDUIT AND A SINGLE GANG BACK BOX.
	S'#	INDICATES THE THE LOCATION OF A LOCAL SOUND REINFORCEMENT/PRESENTATION SPEAKER. '# - WHEN REPLACED WITH AN 'L', THE SPEAKER SHALL BE FOR LOCAL INSTRUCTIONAL PRESENTATION AUDIO AND POWERED BY THE SPECIFIED CLASSROOM PRESENTATION AMPLIFIER. '# - WHEN REPLACED WITH 'SM', THE SPEAKER SHALL BE DEDICATED TO A SPEECH PRIVACY/SOUND MASKING SYSTEM.
	AVC'#	INDICATES THE LOCATION OF AN AUDIO/VIDEO CONTROL PLATE. RACEWAY SHALL CONSIST OF ONE (1) A BACK BOX WITH A 1" CONDUIT ROUTING INTO THE ACCESSIBLE CEILING SPACE WITHIN THE SAME ROOM. AV SYSTEM INSTALLER TO COORDINATE THE CONTROL BACK BOX SIZE REQUIREMENT WITH THE PROJECTS ELECTRICAL CONTRACTOR.

NOTES:
A. IN THE EVENT THAT "#" IS NOT DEFINED IN THE OUTLET DESCRIPTION, THE DEVICE SHALL BE CONSIDERED A STANDALONE DEVICE, SERVING THE SYSTEM WITHIN THE SAME SPACE OR THE FOLLOWING SHALL APPLY:

* # - UNLESS SPECIFICALLY NOTED OTHERWISE, THE FOLLOWING SHALL APPLY TO EACH DEVICE SHOWN ON THE ENTIRE PROJECT:

* SHALL BE REPLACED THE ALPHABETICAL CHARACTERS THAT SHALL INDICATE THE SPECIFIC VENUE THAT THE DEVICE IS ASSOCIATED WITH

SHALL BE REPLACED WITH A NUMERIC VALUE THAT SHALL IDENTIFY THE SPECIFIC DEVICE WITHIN THE SPECIFIC VENUE

B. THE AUDIO/VIDEO SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECT ELECTRICAL CONTRACTOR.

C. REFERENCE SCOPE MATRIX AND PROJECT SPECIFICATIONS FOR INSTRUCTIONS REGARDING THE PROVIDING AND INSTALLATION OF VIDEO DISPLAYS, PROJECTORS, SCREENS, MOUNTS, AND LIFTS.

TYPICAL SUBSCRIPTS LEGEND

TEXT	DESCRIPTION
'WM'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE WALL MOUNTED AT SPECIFIED HEIGHT OR IN COMPLIANCE WITH CODE REQUIREMENTS. ALL WALL MOUNTED HEIGHTS ARE TO BE CONFIRMED WITH THE PROJECT'S ARCHITECT PRIOR TO ROUGH-IN.
'WP'	INDICATES THAT THE DESIGNATED DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS INSTALLATION.
'AC'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE INSTALLED ABOVE THE COUNTERTOP. A NUMERIC VALUE SHALL REPLACE THE '#' SYMBOL AND SHALL DESIGNATE THE SPECIFIC HEIGHT ABOVE COUNTER. ALL HEIGHTS ARE TO BE CONFIRMED WITH THE PROJECT'S ARCHITECT PRIOR TO ROUGH-IN.
'AFF'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE INSTALLED ABOVE THE FINISHED FLOOR. A NUMERIC VALUE SHALL REPLACE THE '#' SYMBOL AND SHALL DESIGNATE THE SPECIFIC HEIGHT ABOVE FINISHED FLOOR. ALL HEIGHTS ARE TO BE CONFIRMED WITH THE PROJECT'S ARCHITECT PRIOR TO ROUGH-IN.
'AG'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE INSTALLED ABOVE THE GRADE LEVEL. A NUMERIC VALUE SHALL REPLACE THE '#' SYMBOL AND SHALL DESIGNATE THE SPECIFIC HEIGHT ABOVE GRADE. ALL HEIGHTS ARE TO BE CONFIRMED WITH THE PROJECT'S ARCHITECT PRIOR TO ROUGH-IN.
'SM'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE SURFACE MOUNTED. CONTRACTOR TO PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE, SURFACE MOUNTED SOLUTION. ALL SURFACE MOUNTED PRODUCTS SHALL BE APPROVED BY THE PROJECT'S ARCHITECT PRIOR TO PROCUREMENT AND/OR INSTALLATION.
'UC'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.
'UF'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE INSTALLED UNDER A RAISED FLOOR SYSTEM.
'CM'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE CORNER MOUNTED AT SPECIFIED HEIGHT. ALL WALL MOUNTED HEIGHTS ARE TO BE CONFIRMED WITH THE PROJECT'S ARCHITECT PRIOR TO ROUGH-IN.

GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS, REMOTE POWER SUPPLIES AND ALL HEAD END EQUIPMENT. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
2. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN CONDUITS, BACK BOXES, JUNCTION BOXES, RACEWAYS, AND SLEEVES REQUIRED TO ESTABLISH CLEAR PATHWAYS FOR ALL SYSTEMS. ALL CONDUITS, SLEEVES, BOXES, AND RACEWAYS SHALL BE PROPERLY SIZED TO MAINTAIN A 40% MAXIMUM FILL RATIO.
3. ALL TECHNOLOGY SYSTEMS OR WIRING ROUTING ACROSS NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT PROVIDED AND INSTALLED BY THE PROJECT'S ELECTRICAL CONTRACTOR. EXPOSED WIRING FOR ALL ROUTING ABOVE NON-ACCESSIBLE CEILINGS WILL NOT BE ACCEPTED SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".
4. EACH SYSTEM INSTALLER SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ANY MOISTURE FROM ENTERING BUILDING.
5. NO CONDUITS SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING. IF EXTERIOR CONDUITS ARE REQUIRED FOR A COMPLETE INSTALLATION, EACH SYSTEM CONTRACTOR SHALL COORDINATE WITH THE PROJECTS CONSULTANT PRIOR TO ANY ROUGH-IN.
6. EACH SYSTEM INSTALLER SHALL PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL CONDUIT STUB OUTS AND SLEEVES TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE EXCEPTED.
7. ALL CABLE SHALL BE ROUTED DOWN CORRIDORS. PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN CORRIDOR TRUNK. ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY.

LOCAL SOUND SYSTEM LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	S'#	VENUE SPECIFIC LOCAL SOUND SYSTEM SPEAKER. '# TO BE REPLACED WITH ALPHANUMERIC TEXT INDICATING THE ASSOCIATED VENUE AND SPEAKER NUMBER.
	LSC'#	VENUE SPECIFIC LOCAL SOUND SYSTEM CONTROL PLATE. '# TO BE REPLACED WITH ALPHANUMERIC TEXT INDICATING THE ASSOCIATED VENUE AND CONTROL PLATE NUMBER.
	M'#	VENUE SPECIFIC LOCAL SOUND SYSTEM MICROPHONE INPUT. '# TO BE REPLACED WITH ALPHANUMERIC TEXT INDICATING THE ASSOCIATED VENUE AND MIC INPUT NUMBER.
	H'#	VENUE SPECIFIC LOCAL SOUND SYSTEM HANGING MICROPHONE. '# TO BE REPLACED WITH ALPHANUMERIC TEXT INDICATING THE ASSOCIATED VENUE AND MIC NUMBER.
	ABM'#	VENUE SPECIFIC LOCAL SOUND SYSTEM 3.5MM AUXILIARY INPUT AND BLUETOOTH MIXER '# TO BE REPLACED WITH ALPHANUMERIC TEXT INDICATING THE ASSOCIATED VENUE AND MIXER NUMBER. CONTRACTOR TO PROVIDE AND INSTALL A RECESSED ENCLOSURE WITH FLUSH MOUNTED, LOCKABLE DOOR. DEVICE TO BE MOUNTED AT +42" AFF.
	RACK	INDICATED THE LOCATION OF THE VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK. AMPLIFIERS, DSPS, AND ALL OTHER HEAD END EQUIPMENT SHALL BE INSTALLED IN THIS RACK/CABINET.
	WA	WIRELESS MICROPHONE ANTENNA. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.
	ALA	ASSISTED LISTENING ANTENNA. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.

NOTES:
1. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	INDICATES THAT THE DEVICE IS EXISTING TO REMAIN. CONTRACTOR TO REMOVE DEVICE AND PLACE IN THE SAME LOCATION AS NEEDED.
'O'	INDICATES THAT THE DEVICE IS EXISTING AN IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'R'	INDICATES THAT THE DEVICE IS EXISTING AND SHALL BE REPLACED. REFERENCE NEW SYSTEM LAYOUT FOR EXACT LOCATIONS
'RR'	INDICATES THAT THE DEVICE IS EXISTING AND SHALL BE REMOVED AND RELOCATED TO A LOCATION INDICATED ON THE DRAWINGS. REFERENCE NEW SYSTEM LAYOUT FOR EXACT LOCATIONS.

COMMUNICATIONS

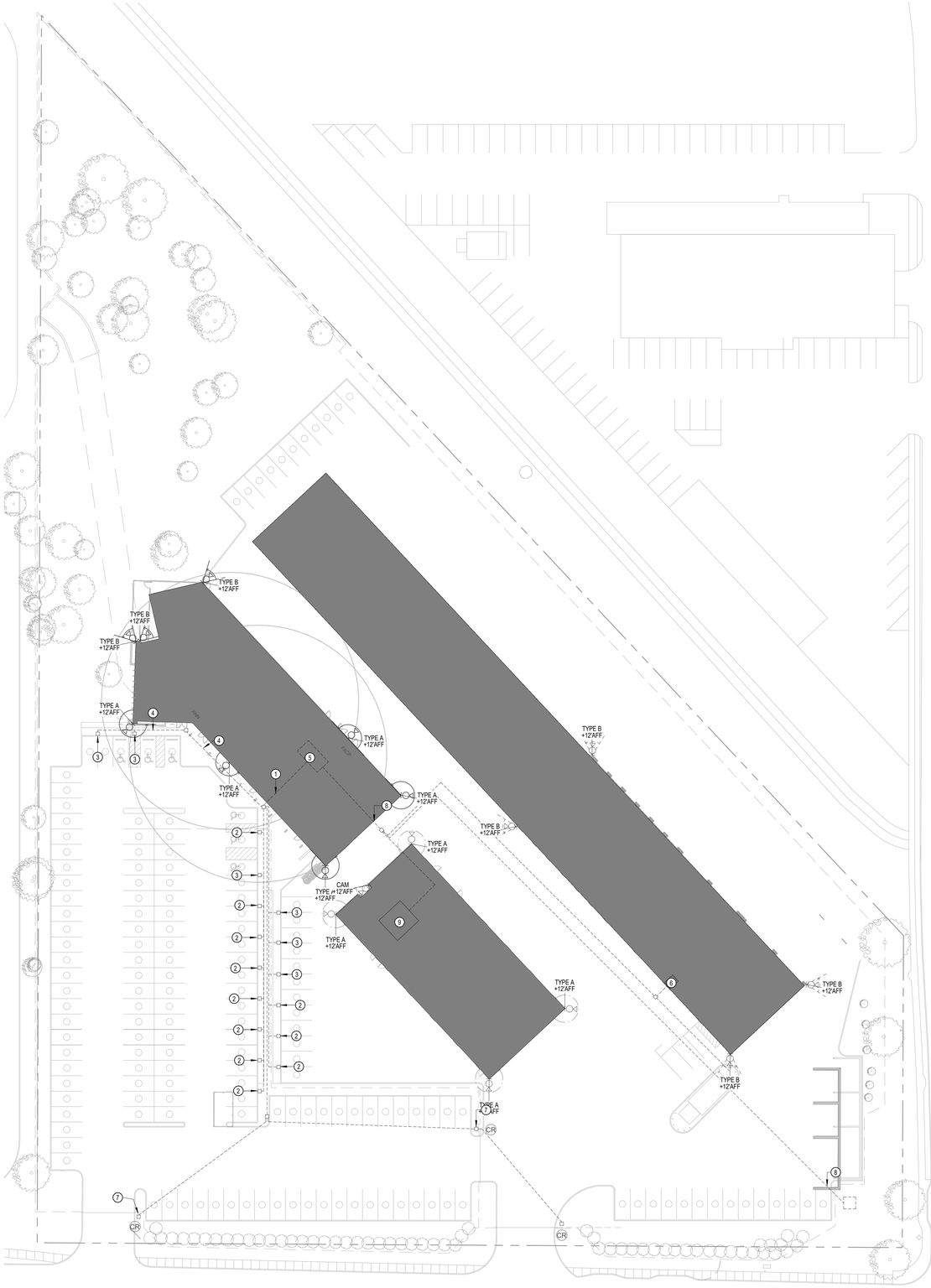
HS DS	SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.
DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN- 42" AFF	
VC	VOLUME CONTROL - WALL MOUNTED
CB	INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE
DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER	
L S	INTERCOM/PA SPEAKER "L" LOCAL SOUND REINFOCEMENT
CEILING MOUNTED DEVICES:	
VC S	INTERCOM/PA SPEAKER "VC" INDICATED VOLUME CONTROL ON SPEAKER.

TECHNOLOGY GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WITH DBR ENGINEERING PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL BY OWNER AND DBR OF THE PROPOSED LOCATIONS.
2. THE SELECTED INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/ INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.
3. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY ANSI/TIA, BICSI, AND THE NEC.
4. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
5. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
6. INSTALLATION PROTOCOLS FOR ALL CATEGORY 6 DATA CABLING SHALL COMPLY WITH THE MOST CURRENT INDUSTRY STANDARDS.
7. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.
8. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
9. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER TECHNOLOGY DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND DBR.
10. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS.
11. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
12. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED NOTED OTHERWISE.
13. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING.
14. ALL CABLE INSTALLED SHALL ROUTE TO RING THE ROOM FROM LEFT TO RIGHT OF THE ROOM IN WHICH IT SERVES AND THEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.
15. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM AN APPROVED CABLE SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. PANDUIT J-MOD SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST, IN LOCATION WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.
16. CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED CABLING AND COMPONENTS TO FURNISH TWO (2) CAT 6 CABLES FOR ANALOG TELEPHONE LINE(S) TO THE FIRE ALARM SYSTEM. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
17. CONTRACTOR TO PROVIDE AND INSTALL ONE (1) CATEGORY 6 CABLE TO THE BUILDING'S ACCESS CONTROL HEAD END PANEL. TERMINATION OF THIS CABLE SHALL BE COORDINATED WITH THE SYSTEM INSTALLER.
18. CONTRACTOR TO PROVIDE AND INSTALL ONE (1) CATEGORY 6 CABLE TO THE BUILDING'S INTRUSION DETECTION PANEL. TERMINATION OF THIS CABLE SHALL BE COORDINATED WITH THE SYSTEM INSTALLER.
19. PROVIDE AND INSTALL ONE (1) CATEGORY 6 CABLE TO EACH LIGHTING CONTROL HUB IN THE PROJECT DESIGN. COORDINATE EXACT QUANTITY AND LOCATIONS WITH THE LIGHTING CONTROL SYSTEM INSTALLER. CONTRACTOR TO ASSUME A MINIMUM OF FIVE (5) LIGHTING CONTROL HUBS PER PROJECT.
20. CONTRACTOR TO PROVIDE AND INSTALL ONE (1) CATEGORY 6 DATA CABLE TO EACH PROJECTOR AND LCD ON THE ENTIRE PROJECT.
21. PROVIDE AND INSTALL ONE (1) CATEGORY 6 DATA CABLE TO THE LOCAL AIR UNIT CONTROLLER IN EACH MDF AND IDF.
22. PROVIDE AND INSTALL ONE (1) CATEGORY 6 DATA CABLE TO EACH ACCESS CONTROL VIDEO DOOR STATION ON THE ENTIRE PROJECT. COORDINATE EXACT LOCATION AND TERMINATION REQUIREMENTS WITH THE DOOR STATION INSTALLER, PRIOR TO INSTALLATION. 22.

SECURITY GENERAL NOTES

1. THE SECURITY SYSTEM INSTALLERS SHALL BE RESPONSIBLE FOR CONNECTING ALL APPLICABLE SYSTEM EQUIPMENT TO THE OWNER'S NETWORK.
2. HE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM AN APPROVED CABLE SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. THE CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.
3. ECURITY CAMERA SYSTEM INSTALLER SHALL



1 TECHNOLOGY SITE PLAN

1" = 30'-0"

GENERAL SITE PLAN NOTES:

A. THE CONTRACTOR SHALL REFERENCE ALL OTHER TRADES' CONSTRUCTION DOCUMENTS FOR FULL EXTENT OF THE SITE WORK TO BE PERFORMED, AND FIELD VERIFY THE EXISTING JOB-SITE CONDITIONS BEFORE BIDDING. NO CHANGE ORDER IS ALLOWED FOR INCREASED COST ASSOCIATED WITH CONDITIONS WHICH COULD HAVE BEEN DETERMINED BY EXAMINING THE SITE AND WHOLE PROJECT DOCUMENTS BEFORE SUBMISSION OF PROPOSALS AND/OR BEFORE A CONTRACT IS AWARDED.

B. ALL CONDUIT AND CABLE RUNS SHOWN ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR SHALL COORDINATE WITH INCOMING SERVICE PROVIDERS AND OTHER TRADES (ELECTRICAL, CIVIL, ETC.) FOR THE EXACT ROUTE AND SHARED TRENCHES, IF APPLICABLE. CONTRACTOR SHALL MAKE ANY FIELD ADJUSTMENT TO THE ROUTE AS NECESSARY, AT NO ADDITIONAL COST TO THE PROJECT OR OWNER, TO AVOID COLLISION AND MEET THE PROJECT REQUIREMENTS.

C. ONLY SWEEP BENDS ARE ALLOWED FOR ALL OSP COMMUNICATIONS CONDUITS. ALL UNDERGROUND CONDUITS SHALL ENTER THE COMMUNICATIONS MANHOLE/HANDHOLE FROM THE SIDE WALLS AND BE PROPERLY SEALED TO PREVENT WATER INFILTRATION.

D. ALL UNDERGROUND COMMUNICATIONS CONDUITS SHALL BE BURIED AT MINIMUM 3 FEET FROM FINISHED GRADE, AND SLOPE AWAY FROM BUILDING, UNLESS OTHERWISE NOTED.

TECHNOLOGY KEYED NOTES

1 PROVIDE AND INSTALL ONE (1) 4-INCH UNDERGROUND CONDUITS WITH 1800 LB TESTED MULE TAPE IN EACH FOR COMMUNICATIONS SERVICES.

2 APPROXIMATE LOCATION OF FUTURE EV CHARGING STATION. PROVIDE AND INSTALL ONE (1) 1 1/2" UNDERGROUND CONDUIT TO EVERY EV CHARGING STATION.

3 APPROXIMATE LOCATION OF EV CHARGING STATION. PROVIDE AND INSTALL ONE (1) 1 1/2" UNDERGROUND CONDUIT TO EVERY EV CHARGING STATION.

4 PROVIDE AND INSTALL ONE (1) 1 1/2-INCH UNDERGROUND CONDUITS WITH 1800 LB TESTED MULE TAPE IN EACH FOR COMMUNICATIONS SERVICES.

5 APPROXIMATE LOCATION OF BUILDING MDF ROOM.

6 APPROXIMATE LOCATION OF BUILDING IDF ROOM

7 APPROXIMATE LOCATION OF ACCESS CONTROLLED GATE. PROVIDE AND INSTALL POLE MOUNTED NEMA 4 ENCLOSURE (16"H X 16"W X 10"D) ADJACENT TO GATE CONTROLLER AND (1) 2-IN CONDUIT FOR SECURITY AND COMMUNICATION CABLING FROM THIS BOX TO NEAREST MDF/IDF ROOM.

8 PROVIDE AND INSTALL (2) TWO 4-INCH UNDERGROUND CONDUITS WITH 1800 LB TESTED MULE TAPE IN EACH FOR COMMUNICATIONS SERVICES.

9 APPROXIMATE LOCATION OF BUILDING IDF ROOM AND WALL RACK.

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
TECHNOLOGY SITE PLAN

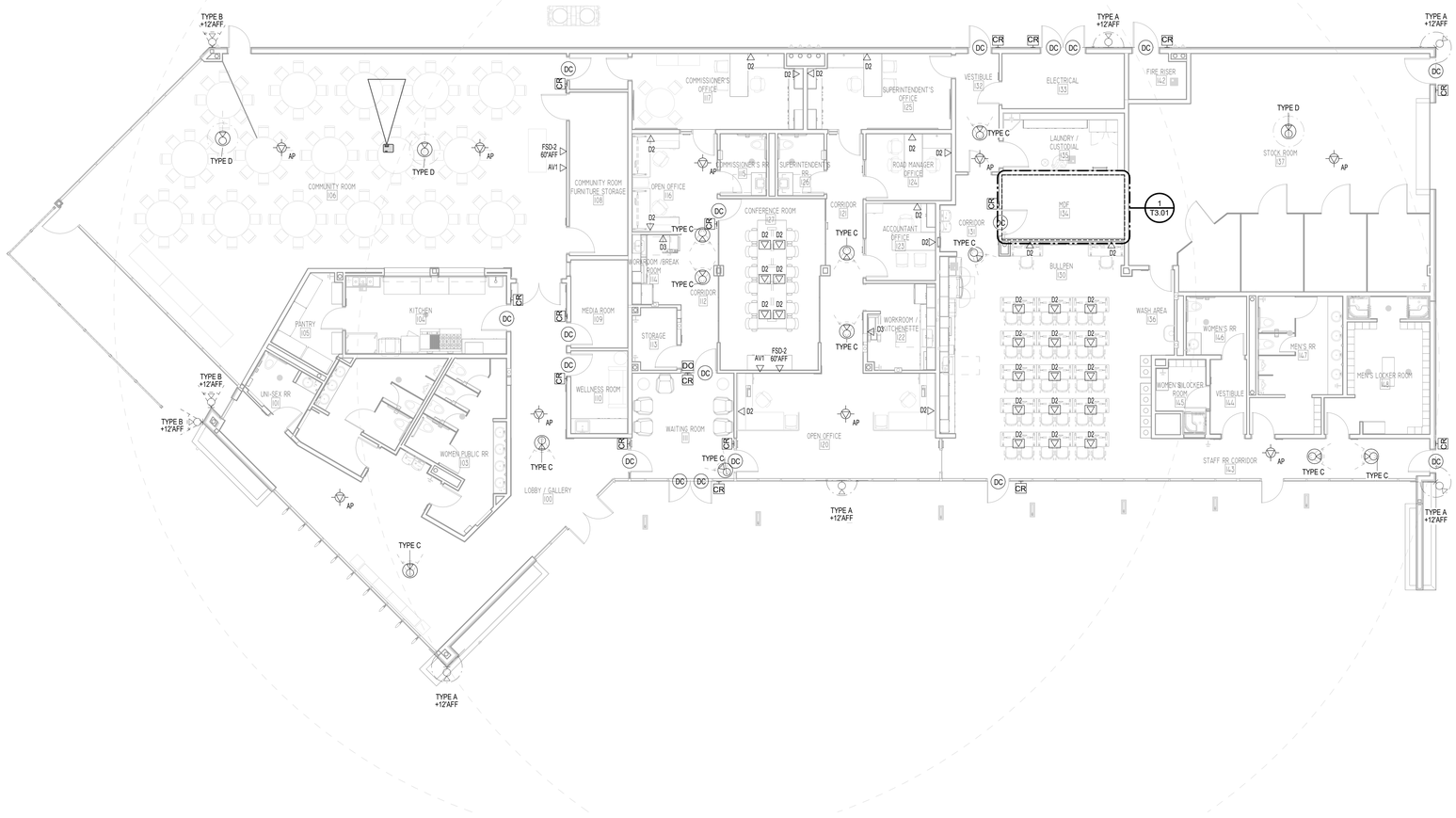
Drawing No.
T1.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 9:34:06 AM



1 **TECHNOLOGY PLAN - ADMINISTRATION BLDG**
1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES:

1. ALL TECHNOLOGY DEVICES, OUTLETS AND CABLE/CONDUIT PATHWAYS SHOWN ARE DIAGRAMMATIC ONLY AND ARE NOT MEANT TO SHOW THE EXACT LOCATION OR ROUTE. CONTRACTOR SHALL VERIFY WITH ARCHITECT AND OWNER FOR EXACT ROUTE, MOUNTING HEIGHT, AND LOCATION BEFORE INSTALLATION, AND SHALL COORDINATE WITH OTHER TRADES TO MAKE ANY FIELD ADJUSTMENTS AS NECESSARY TO AVOID COLLISIONS AND MEET THE PROJECT REQUIREMENTS.
2. CONDUITS AND BACKBOXES, SIZED PER DIV 27/28 SPECIFICATIONS, SHALL BE PROVIDED (BY DIV 26) FOR ALL TECHNOLOGY SYSTEM DEVICES MOUNTED ON WALL, FLOOR, AND OPEN OR SOLID FINISH CEILING. CONDUITS/SLEEVES SHALL BE PROVIDED FOR ALL CABLES ROUTED IN WALLS, OR THROUGH FULL HEIGHT PARTITIONS, OR THROUGH INACCESSIBLE CEILING PLENUM, OR THROUGH SPACES WITH EXPOSED CEILING DECK.
3. CABLES FOR DIFFERENT APPLICATIONS (DATA, AUDIO, VIDEO, SECURITY, ETC.) OR OF DIFFERENT MEDIA TYPE (COAX, UTP, ETC.) SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY.
4. BUSHINGS SHALL BE INSTALLED AT EACH END OF THE CONDUITS BEFORE CABLES BEING PULLED THROUGH. PROVIDE PULL STRING IN EACH CONDUIT INSTALLED AND LEAVE ONE FOR FUTURE PULLING AFTER CABLE INSTALLATION IS COMPLETE.
5. NO NETWORK DATA CABLE RUN SHALL EXCEED 295 FEET IN TOTAL LENGTH INCLUDING UP/DOWN AND SERVICE LOOPS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT AND ENGINEER. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PROPER PATHWAY PLANNING.

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade architects

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
TECHNOLOGY PLAN LEVEL 1 - ADMINISTRATION BLDG

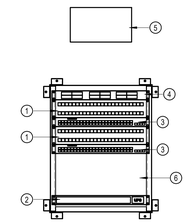
Drawing No.
T2.11

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

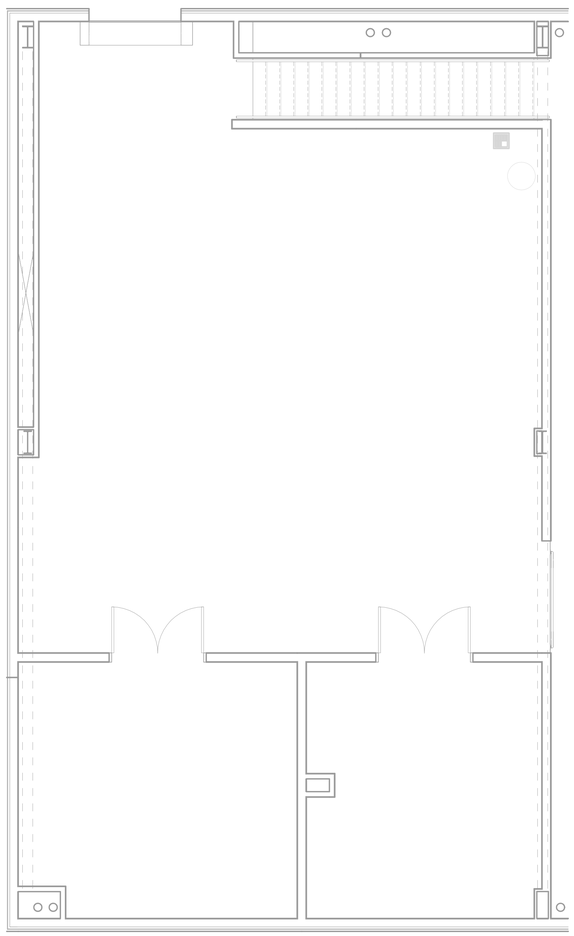
NB	TD	EM	DW	ZB

5/4/2026 9:32:16 AM



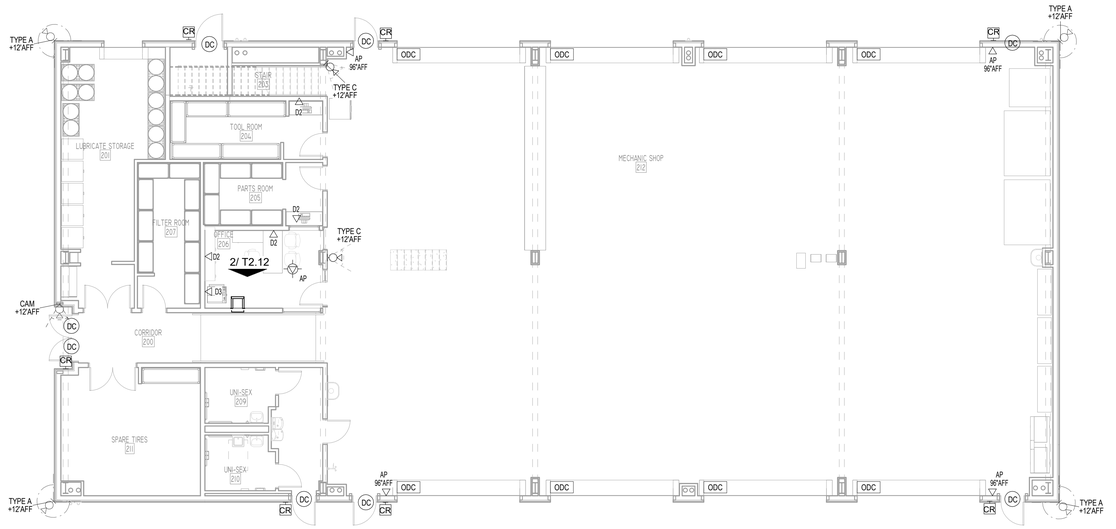
2 RACK ELEVATION - MECHANIC SHOP WALL RACK

1" = 1'-0"



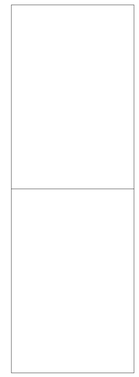
3 ENLARGED TECHNOLOGY PLAN - MEZZANINE

1/4" = 1'-0"



1 TECHNOLOGY PLAN - MECHANIC'S SHOP

1/8" = 1'-0"



GENERAL FLOOR PLAN NOTES:

1. ALL TECHNOLOGY DEVICES, OUTLETS AND CABLE/CONDUIT PATHWAYS SHOWN ARE DIAGRAMMATIC ONLY AND ARE NOT MEANT TO SHOW THE EXACT LOCATION OR ROUTE. CONTRACTOR SHALL VERIFY WITH ARCHITECT AND OWNER FOR EXACT ROUTE, MOUNTING HEIGHT, AND LOCATION BEFORE INSTALLATION, AND SHALL COORDINATE WITH OTHER TRADES TO MAKE ANY FIELD ADJUSTMENTS AS NECESSARY TO AVOID COLLISIONS AND MEET THE PROJECT REQUIREMENTS.
2. CONDUITS AND BACKBOXES, SIZED PER DIV 27/28 SPECIFICATIONS, SHALL BE PROVIDED (BY DIV 26) FOR ALL TECHNOLOGY SYSTEM DEVICES MOUNTED ON WALL, FLOOR, AND OPEN OR SOLID FINISH CEILING. CONDUITS/SLEEVES SHALL BE PROVIDED FOR ALL CABLES ROUTED IN WALLS, OR THROUGH FULL HEIGHT PARTITIONS, OR THROUGH INACCESSIBLE CEILING PLENUM, OR THROUGH SPACES WITH EXPOSED CEILING DECK.
3. CABLES FOR DIFFERENT APPLICATIONS (DATA, AUDIO, VIDEO, SECURITY, ETC.) OR OF DIFFERENT MEDIA TYPE (COAX, UTP, ETC.) SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY.
4. BUSHINGS SHALL BE INSTALLED AT EACH END OF THE CONDUITS BEFORE CABLES BEING PULLED THROUGH. PROVIDE PULL STRING IN EACH CONDUIT INSTALLED AND LEAVE ONE FOR FUTURE PULLING AFTER CABLE INSTALLATION IS COMPLETE.
5. NO NETWORK DATA CABLE RUN SHALL EXCEED 295 FEET IN TOTAL LENGTH INCLUDING UP/DOWN AND SERVICE LOOPS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT AND ENGINEER. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PROPER PATHWAY PLANNING.

TECHNOLOGY KEYED NOTES

1 PROVIDE AND INSTALL 2U 48 PORT PATCH PANEL. (TYPICAL)

2 SPACE RESERVED FOR UPS.

3 SPACE RESERVED FOR NETWORK SWITCHES.

4 PROVIDE AND INSTALL 1U FIBER TERMINATION PANEL. (TYPICAL)

5 PROVIDE AND INSTALL 4"W X 12"L COPPER TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). MOUNT AT 90" AFF.

6 PROVIDE AND INSTALL 7' HIGH EQUIPMENT CABINET. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4

4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
TECHNOLOGY PLAN LEVEL 1 - MECHANIC'S SHOP

Drawing No.
T2.12

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

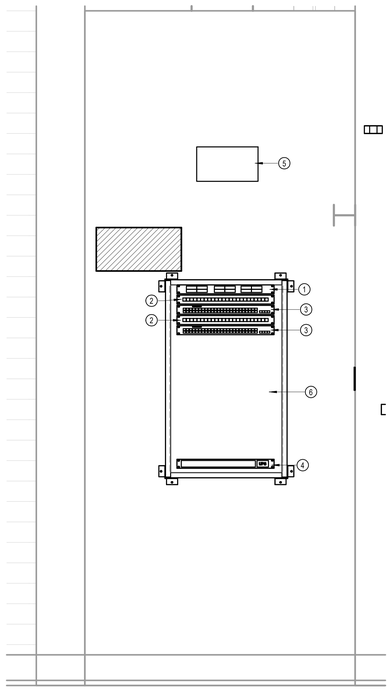
5/4/2026 9:35:50 AM

TECHNOLOGY KEYED NOTES

1. PROVIDE AND INSTALL 1U FIBER TERMINATION PANEL. (TYPICAL)
2. PROVIDE AND INSTALL 1U 24 PORT PATCH PANEL. (TYPICAL)
3. SPACE RESERVED FOR NETWORK SWITCHES.
4. SPACE RESERVED FOR UPS.
5. PROVIDE AND INSTALL 4"W X 12"L COPPER TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). MOUNT AT 90" AFF.
6. PROVIDE AND INSTALL 7' HIGH EQUIPMENT CABINET. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.

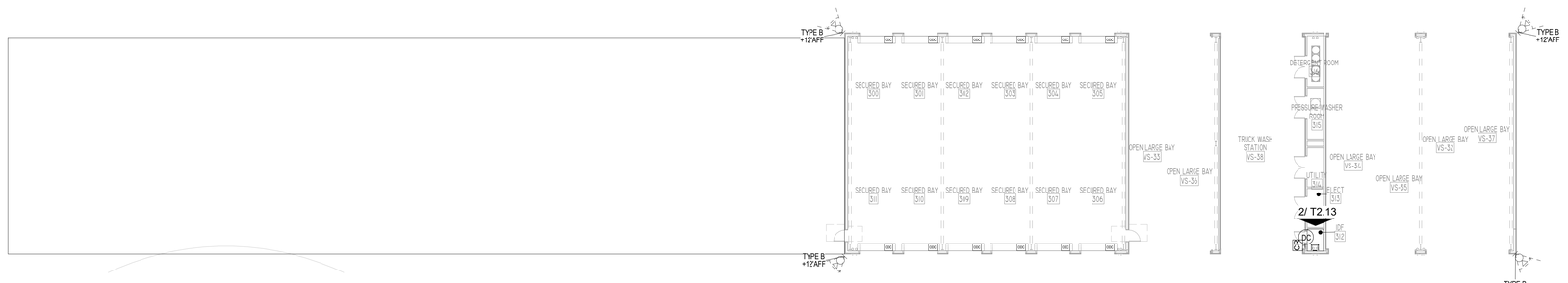
GENERAL FLOOR PLAN NOTES:

1. ALL TECHNOLOGY DEVICES, OUTLETS AND CABLE/CONDUIT PATHWAYS SHOWN ARE DIAGRAMMATIC ONLY AND ARE NOT MEANT TO SHOW THE EXACT LOCATION OR ROUTE. CONTRACTOR SHALL VERIFY WITH ARCHITECT AND OWNER FOR EXACT ROUTE, MOUNTING HEIGHT, AND LOCATION BEFORE INSTALLATION, AND SHALL COORDINATE WITH OTHER TRADES TO MAKE ANY FIELD ADJUSTMENTS AS NECESSARY TO AVOID COLLISIONS AND MEET THE PROJECT REQUIREMENTS.
2. CONDUITS AND BACKBOXES, SIZED PER DIV 27/28 SPECIFICATIONS, SHALL BE PROVIDED (BY DIV 26) FOR ALL TECHNOLOGY SYSTEM DEVICES MOUNTED ON WALL, FLOOR, AND OPEN OR SOLID FINISH CEILING. CONDUITS/SLEEVES SHALL BE PROVIDED FOR ALL CABLES ROUTED IN WALLS, OR THROUGH FULL HEIGHT PARTITIONS, OR THROUGH INACCESSIBLE CEILING PLENUM, OR THROUGH SPACES WITH EXPOSED CEILING DECK.
3. CABLES FOR DIFFERENT APPLICATIONS (DATA, AUDIO, VIDEO, SECURITY, ETC.) OR OF DIFFERENT MEDIA TYPE (COAX, UTP, ETC.) SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY.
4. BUSHINGS SHALL BE INSTALLED AT EACH END OF THE CONDUITS BEFORE CABLES BEING PULLED THROUGH. PROVIDE PULL STRING IN EACH CONDUIT INSTALLED AND LEAVE ONE FOR FUTURE PULLING AFTER CABLE INSTALLATION IS COMPLETE.
5. NO NETWORK DATA CABLE RUN SHALL EXCEED 295 FEET IN TOTAL LENGTH INCLUDING UP/DOWN AND SERVICE LOOPS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT AND ENGINEER. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PROPER PATHWAY PLANNING.



2 Rack Elevation - IDF 311

1" = 1'-0"



1 TECHNOLOGY PLAN - VEHICLE STORAGE BLDG

1/16" = 1'-0"

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
TECHNOLOGY PLAN LEVEL 1 - VEHICLE STORAGE BLDG

Drawing No.
T2.13

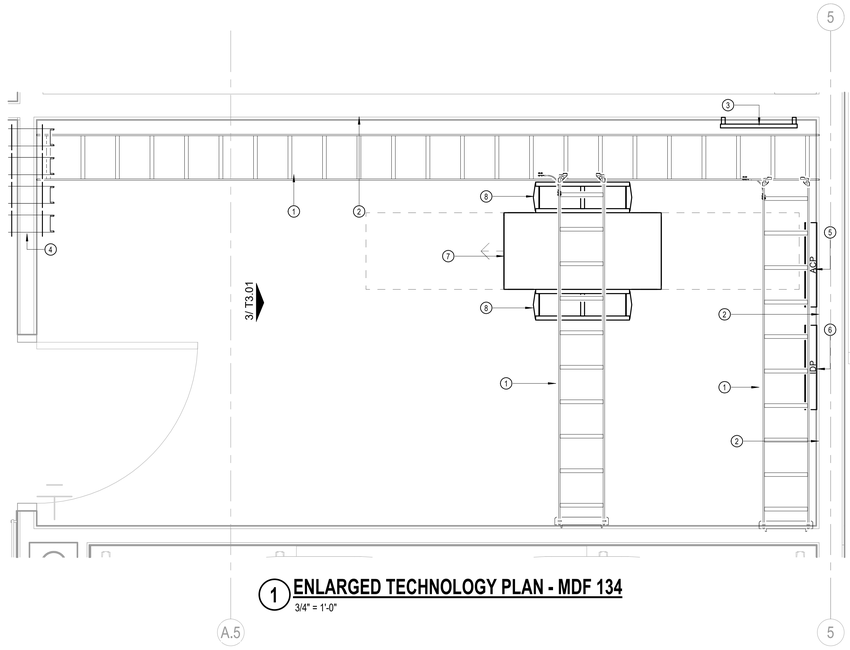
JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f

TBPE Firm Registration No. 13002

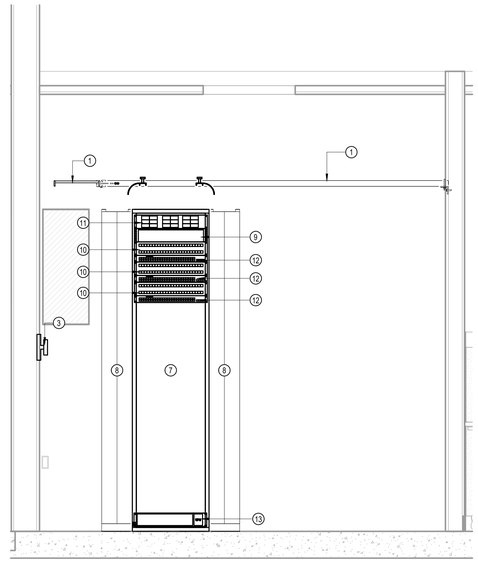
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 9:35:03 AM



1 **ENLARGED TECHNOLOGY PLAN - MDF 134**
3/4" = 1'-0"



3 **TECHNOLOGY RACK ELEVATION - MDF**
3/4" = 1'-0"

GENERAL RACK ELEVATION NOTES:

1. RACK ELEVATIONS ARE SHOWN FOR DESIGN INTENT ONLY, AND DO NOT NECESSARILY REFLECT THE EXACT PLACEMENT OR QUANTITY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH EXACT LOCATION AND QUANTITY OF ALL RACK MOUNTED EQUIPMENT FOR REVIEW AND APPROVAL BEFORE COMMENCEMENT OF INSTALLATION WORK.

GENERAL ENLARGED PLAN NOTES:

1. CONTRACTOR SHALL VERIFY WITH OWNER IT ON THE EXACT PLACEMENT OF ALL EQUIPMENT RACK AND OVERHEAD CABLE TRAYS BEFORE COMMENCEMENT OF INSTALLATION WORK.
2. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES ON ANY OTHER EQUIPMENT, PIPING, CONDUITS NOT SHOWN ON THIS LAYOUT AND SUBMIT REQUEST FOR LAYOUT CHANGES, IF NECESSARY, TO ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL.

TECHNOLOGY KEYED NOTES

1 PROVIDE AND INSTALL 12" OVERHEAD LADDER RACK. MOUNT AT 96" AFF. (TYPICAL)

2 PROVIDE AND INSTALL 3/4" GRADE A/C FIRE RESISTANT PLYWOOD ON WALL, WITH GRADE A SIDE FACING OUT. INSTALL PLYWOOD TO PROVIDE COVERAGE BETWEEN 0" AND 102" AFF ON WALL.

3 PROVIDE AND INSTALL 4"W X 12"L COPPER TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). MOUNT AT 90" AFF.

4 PROVIDE AND INSTALL FOUR (4) 4" SLEEVES FOR COMMUNICATIONS CABLING TO ACCESSIBLE CEILING. FRAME AND FINISH PENETRATION. FIRESTOP AS REQUIRED TO MATCH THE FIRE RATING OF THE WALL.

5 APPROXIMATE LOCATION OF ACCESS CONTROL PANEL(S). COORDINATE WITH OWNER . ARCHITECT, AND OTHER TRADES ON EXACT LOCATION PRIOR TO INSTALLATION.

6 APPROXIMATE LOCATION OF INTRUSION DETECTION PANEL(S). COORDINATE WITH OTHER TRADES ON EXACT LOCATION PRIOR TO INSTALLATION.

7 PROVIDE AND INSTALL 19"W X 84"H 4-POST EQUIPMENT RACK. (TYPICAL)

8 PROVIDE AND INSTALL 6" WIDE VERTICAL CABLE MANAGER. (TYPICAL)

9 PROVIDE AND INSTALL 2U HORIZONTAL CABLE MANAGER. (TYPICAL)

10 PROVIDE AND INSTALL 2U 48 PORT PATCH PANEL. (TYPICAL)

11 PROVIDE AND INSTALL 1U FIBER TERMINATION PANEL. (TYPICAL)

12 SPACE RESERVED FOR NETWORK SWITCHES.

13 SPACE RESERVED FOR UPS.

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
TECHNOLOGY ENLARGED PLANS

Drawing No.
T3.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

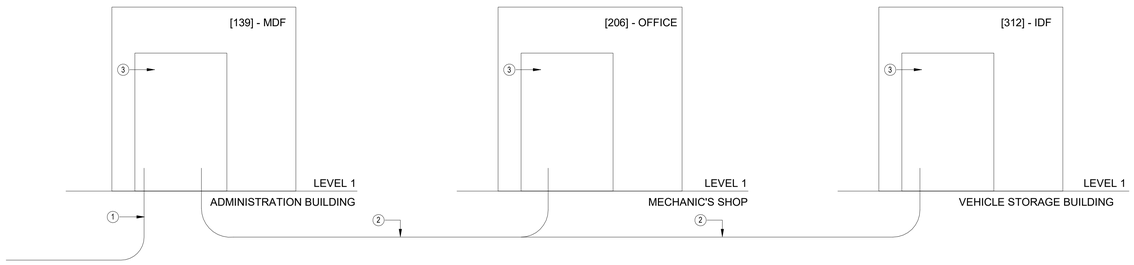
5/4/2026 9:36:29 AM

GENERAL COMMUNICATION CABLING RISER NOTES:

1. ALL COPPER AND FIBER RISER AND BACKBONE CABLES SHALL HOME RUN FROM EACH IDF (TR) TO THE MDF (ER) ROOM. NO DAISY-CHAIN IS ALLOWED.
2. ALL COPPER AND FIBER RISER AND BACKBONE CABLES SHALL RUN CONTINUOUSLY BETWEEN EACH IDF (TR) ROOM AND THE MDF (ER) ROOM, OR BETWEEN MDF (ER) ROOMS IN DIFFERENT BUILDINGS. NO SPLICE IS ALLOWED, UNLESS NOTIFIED OTHERWISE.
3. REFER TO ENLARGED PLANS AND RACK ELEVATION SHEETS FOR MORE INFORMATION.

KEYED NOTES:

1. INCOMING SERVICE CABLING (BY OTHERS) IN 4" CONDUIT WITH INNERDUCT FROM PROPERTY LINE
2. UNDERGROUND CONDUIT RUNNING FROM MDF ROOM TO IDF ROOMS
3. FIBER TERMINATION FIELD



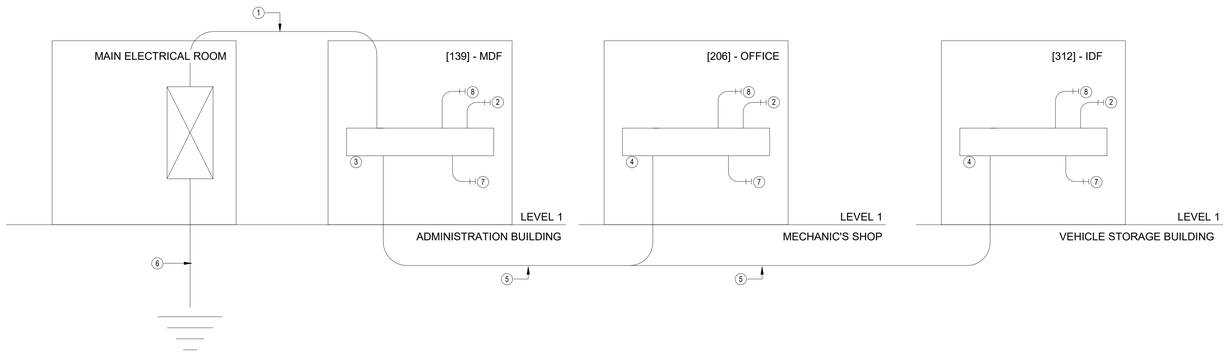
1 BACKBONE RISER DIAGRAM
NOT TO SCALE

GENERAL COMMUNICATION GROUNDING RISER NOTES:

1. COMMUNICATIONS GROUNDING AND BONDING RISER DIAGRAMS ARE DIAGRAMMATIC, AND SHOWN FOR DESIGN INTENT ONLY, AND DO NOT NECESSARILY SHOW ALL GROUNDING AND BONDING COMPONENTS REQUIRED, OR ALL THE EQUIPMENT, CABLES, AND RACEWAYS TO BE BONDED.
2. CONTRACTOR SHALL PROVIDE A COMMUNICATIONS GROUNDING AND BONDING SYSTEM THAT MEET THE LATEST PUBLISHED VERSION OF THE TIA-607 STANDARD, ALL APPLICABLE CODES AND AHJ'S REQUIREMENT.

KEYED NOTES:

1. STRANDED COPPED INSULATED CONDUCTOR, MINIMUM #4/0 TO BUILDING'S ELECTRICAL SERVICE MAIN GROUNDING ELECTRODE SYSTEM SIZED TO TEST TO EQUAL TO OR LESS THAN 0.1 OHMS. ROUTE TO CONDUCTOR TO ELECTRICAL SERVICE WITH FEWEST BENDS AS PRACTICAL. LABEL EACH END OF CONDUCTOR WITH ROOM NUMBER TO WHICH CABLE IS ROUTED. (BY DIV. 26).
2. BONDING COPPED CONDUCTOR (SIZE #4 AWG) FROM BUSBAR TO EACH ROW OF EQUIPMENT RACKS, ALONG ENTIRE LENGTH OF ROW. BOND EACH RACK TO BONDING CONDUCTOR WITH A #6 AWG STRANDED BONDING COPPER CONDUCTOR. (TYP)
3. NEM RATED TMGB 1/4" X 4" X 20" WITH STAND OFF INSULATED. BOND GROUND CONDUCTOR TO TMGB WITH TWO HOLE/TWO SCREW LUG, OR EXOTHERMIC WELD. (BY DIV. 26). LABEL BUS BAR AT EACH END OF CONDUCTOR WITH ROOM NUBMER TO WHICH CABLE IS ROUTED.
4. NEMA RATED TGB 1/4" X 4" X 10" WITH STAND OFF INSULATORS. BOND GROUND CONDUCTOR TO TMGB WITH TWO HOLE/TWO SCREW LUG, OR EXOTHERMIC WELD.
   NOTE: QUANTITES AND CONNECTIONS ARE CONCEPTUAL. PLACE QUANTITY OF BUS BARS IN MDF/IDF ROOMS IN LOCATIONS AS SHOWN ON ROOM DETAIL DRAWINGS. (BY DIV. 26).
5. TELECOMMUNICATIONS BONDING BACKBONE, MIN. #3/0 AWG INSULATED/STRANDED COPPER. TEST TO 0.1 OHMS. (BY DIV. 26)
6. MAIN BUILDING GROUNDING ELECTRODE.
7. TO BUILDING STEEL, MIN #6 AWG IF CLOSE AND ACCESSIBLE.
8. CONFIRM WITH AHJ IF BONDING CONDUCTOR TO NEAREST ELECTRICAL PANEL, MIN #6 AWG IS REQUIRED.



2 GROUNDING RISER DIAGRAM
NOT TO SCALE

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINIOS AVE
DALLAS, TX 75211

gsr andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
TECHNOLOGY RISER DIAGRAMS

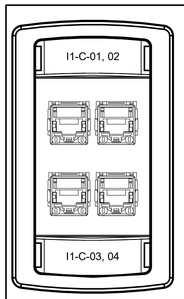
Drawing No.
T4.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 9:32:41 AM



NOTES

1. FACEPLATE LABELING SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THEN 1/4" IN HEIGHT.
2. PROVIDE BLANK INSERTS FOR ANY UNUSED PORTS.
3. COORDINATE EXACT LABELING SCHEME WITH OWNER AND ENGINEER.

9 FACEPLATE LABEL DETAIL
NOT TO SCALE



ROOM NUMBER. (COORDINATE WITH FINAL GRAPHICS PACKAGE, NOT CONSTRUCTION NUMBERS)

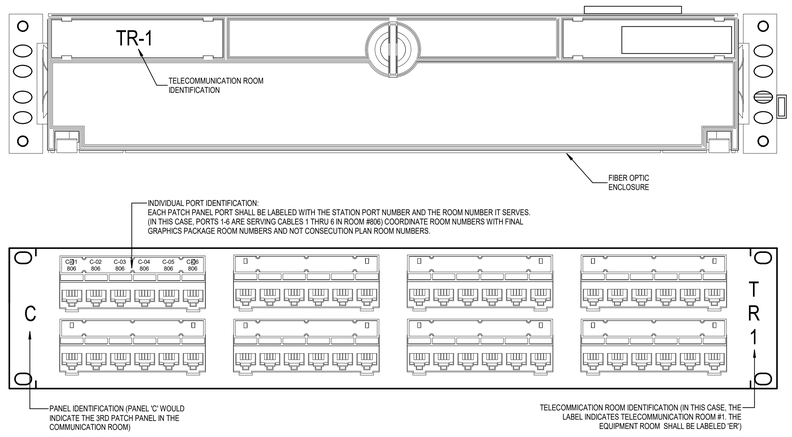
TELECOMMUNICATION ROOM IDENTIFICATION-PANEL IDENTIFICATION-PORT IDENTIFICATION

IF CABLE SERVES BUILDINGS INTERCOM SYSTEM PROVIDE AN "I" BETWEEN THE TR IDENTIFIER AND THE PANEL: EXAMPLE I1-I-C-01

NOTES

1. WRAP AROUND CABLE LABEL TO BE INSTALLED AT BOTH THE WORK AREA OUTLET AND TELECOMMUNICATION ROOM ENDS OF ALL CABLES. INSTALL LABEL 1" FROM THE END OF THE CABLE JACKET AT BOTH ENDS.
2. CABLE LABELING SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THEN 1/8" IN HEIGHT.
3. COORDINATE EXACT LABELING SCHEME WITH OWNER AND ENGINEER.

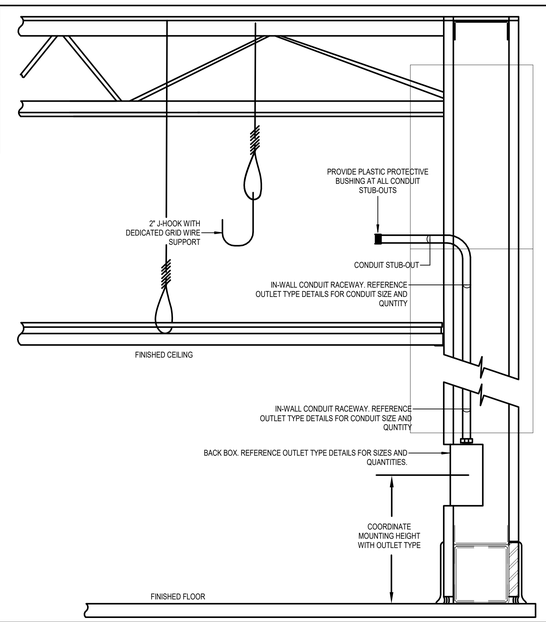
11 CABLE LABEL DETAIL
NOT TO SCALE



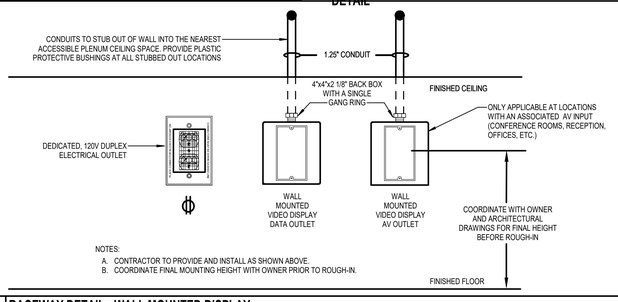
NOTES

1. PATCH PANEL PORT LABELING SHALL BE GENERATED AND SHALL NOT BE LESS THEN 1/4" IN HEIGHT.
2. PATCH PANEL AND CLOSET IDENTIFICATION LABEL SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THAN 1/8" IN HEIGHT.
3. COORDINATE EXACT LABELING SCHEME WITH OWNER AND ENGINEER.

10 FIBER ENCLOSURE/ COPPER PATCH PANEL LABELING DETAIL

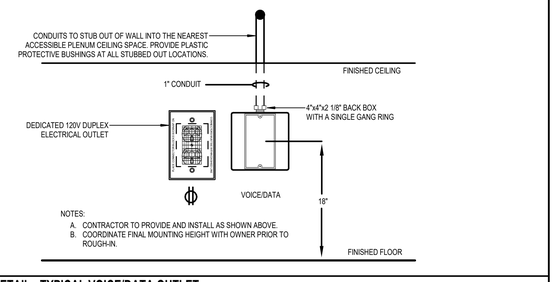


1 LOW VOLTAGE ELEVATION - IN-WALL RACEWAY
NOT TO SCALE



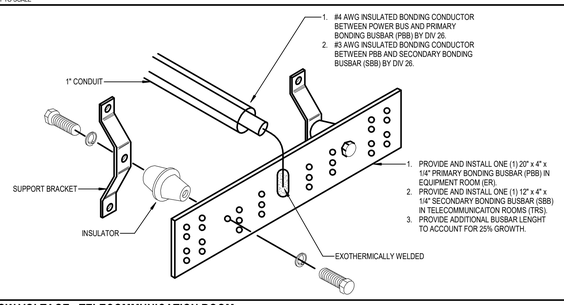
NOTES:
A. CONTRACTOR TO PROVIDE AND INSTALL AS SHOWN ABOVE.
B. COORDINATE FINAL MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.

7 RACEWAY DETAIL - WALL MOUNTED DISPLAY
NOT TO SCALE

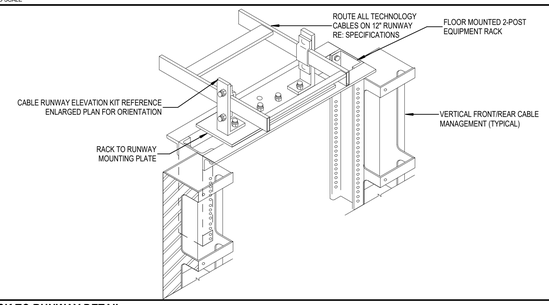


NOTES:
A. CONTRACTOR TO PROVIDE AND INSTALL AS SHOWN ABOVE.
B. COORDINATE FINAL MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.

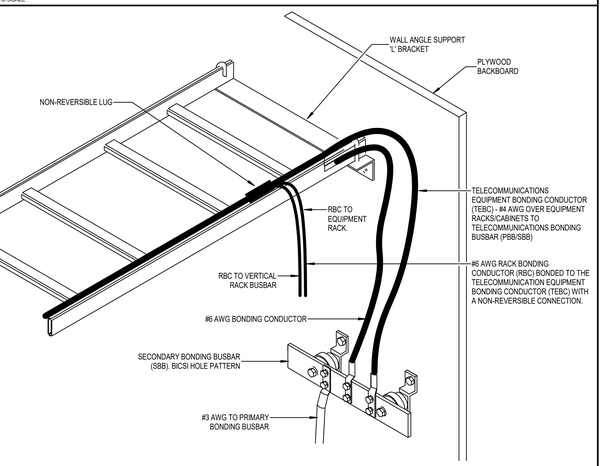
6 RACEWAY DETAIL - TYPICAL VOICE/DATA OUTLET
NOT TO SCALE



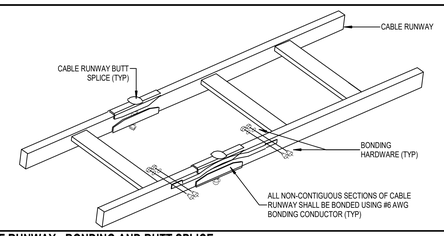
5 LOW VOLTAGE - TELECOMMUNICATION ROOM GROUNDING BUS DETAIL
NOT TO SCALE



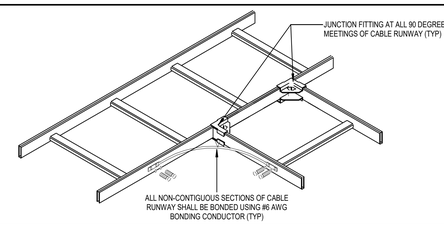
8 RACK TO RUNWAY DETAIL
NOT TO SCALE



2 CABLE RUNWAY - GROUNDING AND BONDING
NOT TO SCALE



3 CABLE RUNWAY - BONDING AND BUTT SPLICE
NOT TO SCALE



4 CABLE RUNWAY - JUNCTION AND BONDING
NOT TO SCALE

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS
Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING. PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116001

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
TECHNOLOGY DETAILS

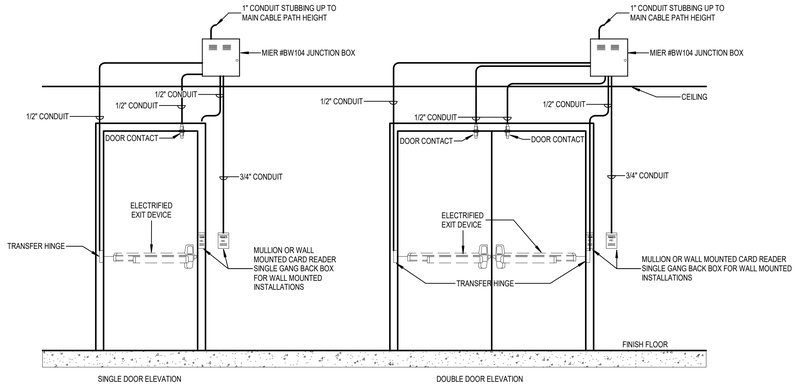
Drawing No.
T6.01

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

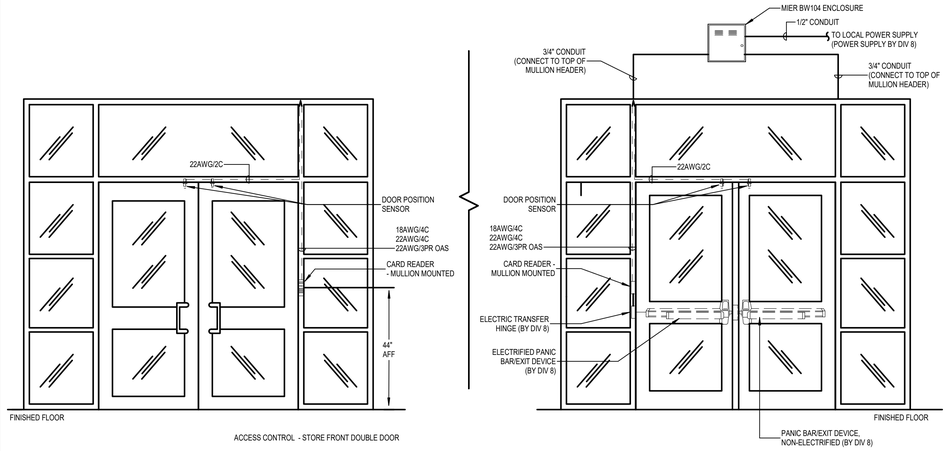
JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

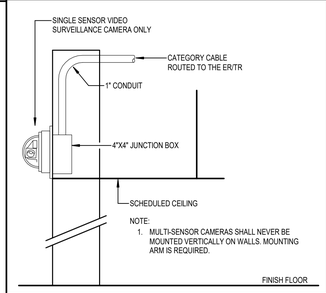
5/4/2026 9:32:35 AM



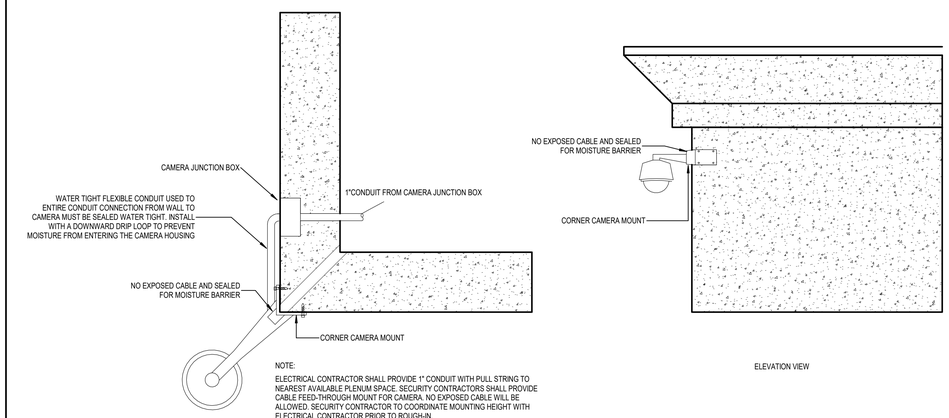
2 **ACCESS CONTROL - EXIT DEVICE DOOR ELEVATION**
NOT TO SCALE



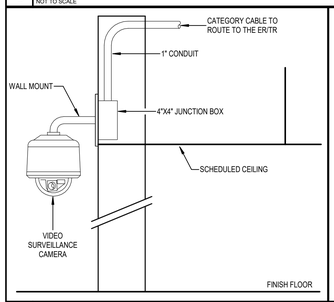
1 **ACCESS CONTROL - STORE FRONT DOUBLE DOOR**
NOT TO SCALE



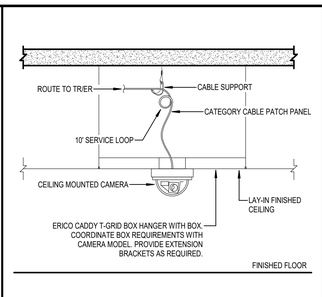
5 **INTERIOR WALL MOUNT CAMERA-VERTICAL**
NOT TO SCALE



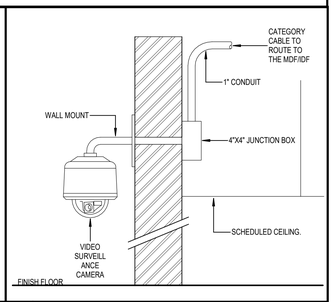
8 **SURVEILLANCE CAMERA CORNER MOUNTING DETAIL**
NOT TO SCALE



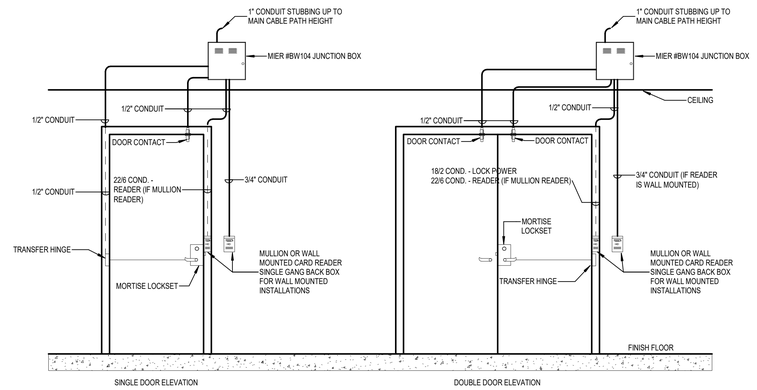
6 **INTERIOR WALL MOUNTED DOME CAMERA**
NOT TO SCALE



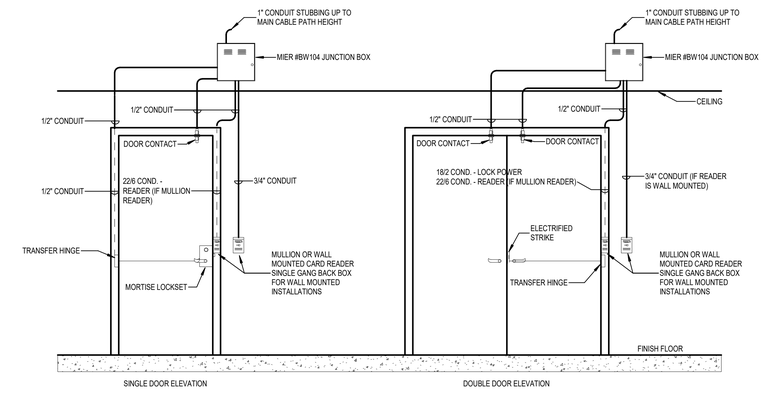
7 **INTERIOR LAY-IN CEILING MOUNTED CAMERA**
NOT TO SCALE



9 **EXTERIOR WALL MOUNTED DOME CAMERA**
NOT TO SCALE



3 **ACCESS CONTROL - MORTISE LOCK DOOR ELEVATION**
NOT TO SCALE



4 **ACCESS CONTROL - ELECTRIFIED STRIKE DOOR ELEVATION**
NOT TO SCALE

DALLAS COUNTY ROAD & BRIDGE - DISTRICT 4
4403 W ILLINOIS AVE
DALLAS, TX 75211

gsr | andrade ARCHITECTS

Dallas, Texas 75226
P 214.824.7040
F 214.887.0559

copyright 2018 © gsr | andrade architects, inc.

NOT FOR CONSTRUCTION OR PERMITTING; PRINTED FOR REVIEW ONLY.
05/04/2026
KENNETH L. ROLAND, P.E.
TEXAS # 116091

Revisions:

REV.	DATE	TITLE

Date:
95% CONSTRUCTION DOCS
05-04-2026

Project No.
3015

Drawn By:
DBR

Checked By:
DBR

Sheet Title:
SECURITY DETAILS

Drawing No.
T6.02

JONES DBR
STATE OF TEXAS HUB FIRM
5000 Quorum Dr, Suite 400
Dallas, Texas 75254
214.217.9500 p 214.217.9505 f
TBPE Firm Registration No. 13002

JONESDBR Project Number 2315.000

NB	TD	EM	DW	ZB

5/4/2026 9:36:47 AM

Dallas County

Road & Bridge District 4

4403 W. Illinois Ave. | Dallas, Texas 75211



PROJECT MANUAL

gsr | andrade
ARCHITECTS

2001 North Lamar Street, Suite 400 | Dallas, Texas 75202

GSRA Project Number: 3015

95% Construction Documents | May 18, 2026

SECTION 000110
TABLE OF CONTENTS

NUMBER	TITLE	ISSUE DATE
DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS		
00 01 10	Table of Contents	May 18, 2026
00 31 32	Geotechnical Data	May 18, 2026
	Geotechnical Engineering Report – Phase I	
	Geotechnical Engineering Report – Phase II	
DIVISION 01 - GENERAL REQUIREMENTS		
01 10 00	Summary	May 18, 2026
01 22 00	Unit Prices	May 18, 2026
01 23 00	Alternates	May 18, 2026
01 25 00	Substitution Procedures	May 18, 2026
	Substitution Request Form	
01 26 00	Contract Modification Procedures	May 18, 2026
01 29 00	Payment Procedures	May 18, 2026
01 29 73	Schedule of Values	May 18, 2026
01 31 00	Project Management and Coordination	May 18, 2026
01 32 00	Construction Progress Documentation	May 18, 2026
01 32 33	Photographic Documentation	May 18, 2026
01 33 00	Submittal Procedures	May 18, 2026
01 40 00	Quality Requirements	May 18, 2026
01 41 00	Regulatory Requirements	May 18, 2026
01 42 00	References	May 18, 2026
01 42 19	Reference Standards	May 18, 2026
01 50 00	Temporary Facilities and Controls	May 18, 2026
01 56 39	Temporary Tree and Plant Protection	May 18, 2026
01 57 19	Airborne Contaminants Controls	May 18, 2026
01 60 00	Product Requirements	May 18, 2026
01 73 00	Execution Requirements	May 18, 2026
017400	Cleaning	May 18, 2026
01 74 19	Construction Waste Management and Disposal	May 18, 2026
	Form CWM-1	
	Form CWM-2	
	Form CWM-3	
	Form CWM-4	
	Form CWM-5	
	Form CWM-6	
	Form CWM-7	
	Form CWM-8	
01 75 00	Starting and Adjusting	May 18, 2026
01 77 00	Closeout Procedures	May 18, 2026
01 78 00	Closeout Submittals	May 18, 2026
01 78 39	Project Record Documents	May 18, 2026
01 78 43	Spare Parts and Maintenance Material	May 18, 2026
01 79 00	Demonstration and Training	May 18, 2026
01 81 13	Sustainability Design Requirements	May 18, 2026
	LEED Scorecard	
DIVISION 02 - EXISTING CONDITIONS		
02 41 13	Selective Site Demolition	May 18, 2026
DIVISION 03 - 04		
NOT USED		

DIVISION 05 - METALS
05 50 00 Metal Fabrications ..... May 18, 2026
05 52 20 Removable Metal Railings ..... May 18, 2026

DIVISION 06 - WOOD AND PLASTICS
06 10 53 Miscellaneous Rough Carpentry ..... May 18, 2026
06 16 39 Exterior Sheathing ..... May 18, 2026

DIVISION 07 - THERMAL AND MOISTURE PROTECTION
07 21 00 Thermal Insulation ..... May 18, 2026
07 26 17 Below Slab Vapor Barrier ..... May 18, 2026
07 27 26 Fluid-Applied Membrane Air Barriers ..... May 18, 2026
07 27 69 Sill Barrier ..... May 18, 2026
07 42 13 Formed Metal Wall Panels ..... May 18, 2026
07 42 43 Aluminum Wall Panels ..... May 18, 2026
07 54 23 Thermoplastic Polyolefin Membrane Roofing ..... May 18, 2026
07 62 00 Sheet Metal Flashing ..... May 18, 2026
07 71 13 Sheet Metal Copings ..... May 18, 2026
07 72 33 Roof Hatch ..... May 18, 2026
07 84 13 Penetration Firestopping ..... May 18, 2026
07 92 00 Joint Sealants ..... May 18, 2026

DIVISION 08 - DOORS AND WINDOWS
08 11 13 Hollow Metal Doors and Frames ..... May 18, 2026
08 31 13 Access Doors ..... May 18, 2026
08 33 13 Overhead Coiling Counter Doors ..... May 18, 2026
08 33 23 Overhead Coiling Doors ..... May 18, 2026
08 41 13 Fire-Rated Aluminum-Framed Storefronts ..... May 18, 2026
08 41 26 Interior All-Glass Entrances and Storefronts ..... May 18, 2026
08 42 13 Aluminum-Framed Entrances ..... May 18, 2026
08 43 13 Aluminum-Framed Storefronts ..... May 18, 2026
08 43 33 Aluminum-Framed Interior Storefronts ..... May 18, 2026
08 62 23 Tubular Skylights ..... May 18, 2026
08 80 00 Glazing ..... May 18, 2026
08 83 00 Mirrors ..... May 18, 2026

DIVISION 09 - FINISHES
09 22 16 Non-Structural Metal Framing ..... May 18, 2026
09 29 00 Gypsum Board ..... May 18, 2026
09 29 20 Finishing Gypsum Board ..... May 18, 2026
09 30 00 Tiling ..... May 18, 2026
09 61 39 Sealing Concrete Floors ..... May 18, 2026
09 65 13 Resilient Base and Accessories ..... May 18, 2026
09 65 21 Resilient Plank Flooring ..... May 18, 2026
09 68 13 Tile Carpeting ..... May 18, 2026
09 91 00 Painting ..... May 18, 2026
09 97 13 Exterior Steel Coatings ..... May 18, 2026

DIVISION 10 - SPECIALTIES
10 21 16 Shower Enclosures ..... May 18, 2026
10 22 13 Wire Mesh Partitions ..... May 18, 2026
10 28 13 Toilet Accessories ..... May 18, 2026
10 43 13 Defibrillators ..... May 18, 2026
10 44 00 Fire Protection Specialties ..... May 18, 2026
10 44 63 Fireman's Key Keeper ..... May 18, 2026
10 56 23 Storage Shelving ..... May 18, 2026
10 73 19 Aluminum Canopies ..... May 18, 2026

10 73 23 Aluminum Car Shelters ..... May 18, 2026
10 75 16 Ground-Set Flagpoles ..... May 18, 2026

DIVISION 11 - EQUIPMENT
11 31 13 Appliances ..... May 18, 2026
11 46 83 Ice Machines ..... May 18, 2026
11 52 33 Television Mounting Brackets ..... May 18, 2026
11 90 00 Equipment ..... May 18, 2026

DIVISION 12 - FURNISHINGS
12 31 36 Stainless Steel Cabinets and Countertops ..... May 18, 2026

DIVISION 13 - SPECIAL CONSTRUCTION
13 34 19 Pre-Engineered Metal Building ..... May 18, 2026

DIVISION 14 - 20
NOT USED

DIVISION 21 - FIRE SUPPRESSION
21 00 00 Fire Protection ..... May 18, 2026
21 02 01 Coordination Drawings ..... May 18, 2026
21 05 29 Hangers and Supports for Fire Suppression Piping and Equipment ..... May 18, 2026
21 13 13 Wet Pipe Sprinkler Systems ..... May 18, 2026
21 13 16 Dry Pipe Sprinkler Systems ..... May 18, 2026

DIVISION 22 - PLUMBING
22 02 00 Basic Materials and Methods for Plumbing ..... May 18, 2026
22 02 01 Coordination Drawings ..... May 18, 2026
22 03 00 Plumbing Demolition for Remodeling ..... May 18, 2026
22 05 13 Common Motor Requirements for Plumbing Equipment ..... May 18, 2026
22 05 16 Expansion Fittings and Loops for Plumbing Piping ..... May 18, 2026
22 05 29 Hangers and Supports for Plumbing Piping and Equipment ..... May 18, 2026
22 05 48 Vibration and Seismic Controls for Plumbing Piping ..... May 18, 2026
22 05 53 Identification for Plumbing Piping and Equipment ..... May 18, 2026
22 07 16 Plumbing Equipment Insulation ..... May 18, 2026
22 07 19 Plumbing Piping Insulation ..... May 18, 2026
22 08 00 Commissioning of Plumbing Systems ..... May 18, 2026
22 10 00 Plumbing Piping ..... May 18, 2026
22 11 19 Plumbing Specialties ..... May 18, 2026
22 11 21 Natural Gas Piping Systems ..... May 18, 2026
22 30 00 Plumbing Equipment ..... May 18, 2026
22 40 00 Plumbing Fixtures ..... May 18, 2026
22 61 00 Compressed Air Systems ..... May 18, 2026

DIVISION 23 - HEATING VENTILATION AND AIR CONDITIONING
23 02 00 Basic Materials and Methods for HVAC ..... May 18, 2026
23 02 01 Coordination Drawings ..... May 18, 2026
23 05 13 Common Motor Requirements for HVAC Equipment ..... May 18, 2026
23 05 29 Hangers and Supports for Piping and Equipment - HVAC ..... May 18, 2026
23 05 48 Vibration Controls for HVAC Piping and Equipment ..... May 18, 2026
23 05 53 Identification for HVAC Piping and Equipment ..... May 18, 2026
23 05 93 Testing, Adjusting and Balancing ..... May 18, 2026
23 07 13 Duct Insulation ..... May 18, 2026
23 07 19 HVAC Piping Insulation ..... May 18, 2026
23 09 63 Energy Management and Control System (EMCS) ..... May 18, 2026
23 21 13 Above Ground Hydronic Piping ..... May 18, 2026
23 23 00 Refrigerant Piping ..... May 18, 2026
23 31 13 Metal Ductwork ..... May 18, 2026

23 33 00 Ductwork Accessories ..... May 18, 2026
23 34 00 HVAC Fans ..... May 18, 2026
23 34 39 High-Volume, Low-Speed Propeller Fans ..... May 18, 2026
23 37 13 Air Distribution Devices ..... May 18, 2026
23 37 23 HVAC Gravity Ventilators ..... May 18, 2026
23 41 00 Air Filters ..... May 18, 2026
23 55 00 Fuel Fired Unit Heaters ..... May 18, 2026
23 62 13 Air Cooled Condensing Units ..... May 18, 2026
23 82 19 Fan Coil Units ..... May 18, 2026
23 82 39 Electric Unit Heaters ..... May 18, 2026

DIVISION 26 - ELECTRICAL
26 02 00 Basic Materials and Methods for Electrical ..... May 18, 2026
26 03 00 Demolition Work ..... May 18, 2026
26 05 19 Wire, Cable and Related Materials ..... May 18, 2026
26 05 26 Grounding ..... May 18, 2026
26 05 33 Raceways ..... May 18, 2026
26 05 73 Short Circuit Coordination Study Arc Flash Hazard Analysis ..... May 18, 2026
26 06 34 Low Voltage Raceway System ..... May 18, 2026
26 09 13 Electric Power Monitoring and Control ..... May 18, 2026
26 09 43 Network Lighting Controls ..... May 18, 2026
26 22 13 Low Voltage Distributions Transformers ..... May 18, 2026
26 24 16 Panelboards ..... May 18, 2026
26 27 26 Wiring Devices ..... May 18, 2026
26 28 13 Fuses ..... May 18, 2026
26 28 16 Safety and Disconnect Switches ..... May 18, 2026
26 29 13 Motor Starters ..... May 18, 2026
26 29 26 Miscellaneous Electrical Controls and Wiring ..... May 18, 2026
26 31 13.13 Diesel Engine-Driven Standby Generating System ..... May 18, 2026
26 36 13 Manual Transfer Switch and Docking Station ..... May 18, 2026
26 41 13.13 Lightning Protection System ..... May 18, 2026
26 43 13 Surge Protective Devices (SPD) – Service Entrance ..... May 18, 2026
26 43 13.13 Surge Protective Devices (SPD) – Standard Interrupting ..... May 18, 2026
26 51 19 Lighting Fixtures – Light Emitting Diode (LED) ..... May 18, 2026

DIVISION 27 - COMMUNICATIONS
27 02 00 Basic Materials and Methods for Communications Systems ..... May 18, 2026
27 05 26 Grounding and Bonding for Communications Systems ..... May 18, 2026
27 05 28 Pathways for Communications Systems ..... May 18, 2026
27 05 43 Underground Ducts and Raceways for Communications Systems ..... May 18, 2026
27 11 00 Communications Room Fittings ..... May 18, 2026
27 13 00 Communications Backbone Cabling ..... May 18, 2026
27 15 00 Communications Horizontal Cabling ..... May 18, 2026
27 53 19 Distributed Antenna System (DAS) ..... May 18, 2026

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY
28 02 00 Basic Materials and Methods for Safety and Security Systems ..... May 18, 2026
28 03 00 Life Safety and Security Demolition for Remodeling ..... May 18, 2026
28 05 00 Basic Materials and Methods for Fire Alarm ..... May 18, 2026
28 10 00 Access Control System ..... May 18, 2026
28 20 00 Video Surveillance System ..... May 18, 2026
28 31 00 Intrusion Detection System ..... May 18, 2026
28 46 00 Fire Alarm System with Electronic Audio and Visual Devices ..... May 18, 2026
28 46 05 Fire Alarm System with Voice Evacuation – High Rise ..... May 18, 2026
28 46 09 Fire Alarm System with Voice Evacuation ..... May 18, 2026

DIVISION 31 - EARTHWORK
31 10 00 Site Clearing ..... May 18, 2026
31 20 00 Earth Moving ..... May 18, 2026
31 22 00 Grading ..... May 18, 2026
31 23 33 Trenching and Backfilling ..... May 18, 2026
31 25 00 Erosion and Sedimentation Controls ..... May 18, 2026
31 31 16 Termite Control ..... May 18, 2026
31 32 13.16 Cement Stabilization ..... May 18, 2026

DIVISION 32 - EXTERIOR IMPROVEMENTS
32 01 13 Pavement Sealing ..... May 18, 2026
32 01 17 Flexible Paving Repair ..... May 18, 2026
32 07 17.61 Crack and Joint Sealing ..... May 18, 2026
32 13 13 Concrete Paving ..... May 18, 2026
32 14 00 Unit Paving ..... May 18, 2026
32 16 13.13 Cast-in-Place Concrete Curbs and Gutters ..... May 18, 2026
32 17 23.13 Painted Pavement Markings ..... May 18, 2026
32 84 00 Planting Irrigation ..... May 18, 2026
32 90 00 Landscape Planting ..... May 18, 2026

DIVISION 33 - UTILITIES
33 10 00 Water Utilities ..... May 18, 2026
33 30 00 Sanitary Sewerage Utilities ..... May 18, 2026
33 40 00 Storm Drainage Utilities ..... May 18, 2026

DIVISIONS 34 - 40
NOT USED

DIVISION 41 – MATERIAL PROCESSING AND HANDLING EQUIPMENT
41 22 23 Hoist ..... May 18, 2026

END OF TABLE OF CONTENTS

SECTION 003132

GEOTECHNICAL DATA

1.1 GEOTECHNICAL DATA

A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of Bidders' own investigations. They are made available for Bidders' convenience and information. This Document and its attachments are not part of the Contract Documents.

B. Because subsurface conditions indicated by the soil borings are a sampling in relation to the entire construction area, and for other reasons, the Owner, the Architect, the Architect's consultants, and the firm reporting the subsurface conditions do not warranty the conditions below the depths of the borings or that the strata logged from the borings are necessarily typical of the entire site. Any party using the information described in the soil borings and geotechnical report shall accept full responsibility for its use.

C. Geotechnical investigation reports for Project, prepared by Terracon, Phase I dated 23 May 2023, and Phase II dated on 01 April 2026, is available for viewing as appended to this Document.

1. The opinions expressed in this report are those of a geotechnical engineer and represent interpretations of subsoil conditions, tests, and results of analyses conducted by a geotechnical engineer.
2. Any party using information described in the geotechnical report shall make additional test borings and conduct other exploratory operations that may be required to determine the character of subsurface materials that may be encountered.

END OF SECTION

Dallas County Road & Bridge No. 4- Phase 1

Geotechnical Engineering Report

May 23, 2023 | Terracon Project No. 94225404

Prepared for:

GSR Andrade Architects, Inc.
4121 Commerce Street #1
Dallas, Texas 75226



Terracon
Explore with us

Nationwide
Terracon.com

- Facilities
- Environmental
- Geotechnical
- Materials

8901 John W. Carpenter Fwy #100
Dallas, Tx 75247
P (214) 630-1010
Terracon.com

May 23, 2023

GSR Andrade Architects, Inc.
4121 Commerce Street #1
Dallas, Texas 75226

Attn: Robert Croysdale, AIA, LEED AP BD+C
P: (214) 722-4916
E: rcroysdale@gsr-andrade.com

Re: Geotechnical Engineering Report
Dallas County Road & Bridge No. 4- Phase 1
4403 W. Illinois Avenue
Dallas, Texas
Terracon Project No. 94225404

Dear Mr. Croysdale:

We have completed the scope of Geotechnical Engineering services for the above referenced project in general accordance with Terracon Proposal No. P94225404 dated October 7, 2022. This report presents the findings of the subsurface exploration and provides geotechnical recommendations concerning earthwork and the design and construction of foundations, floor slabs, retaining walls, and pavements for the proposed project.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,

Terracon

5/23/2023



Santosh Aryal, E.I.T.
Staff Geotechnical Engineer

Christopher W. Eddy, P.E.
Senior Geotechnical Engineer

Table of Contents

Report Summary i
Introduction 1
Project Description 1
Site Conditions 2
Geotechnical Characterization 3
Seismic Site Class 4
Geotechnical Overview 4
Earthwork 5
Demolition 5
Existing Fill 6
Site Preparation 6
Suitable Fill Material Types 7
Compaction Requirements 7
Utility Trench Backfill 8
Grading and Drainage 8
Earthwork Construction Considerations 9
Construction Observation and Testing 10
Building Pad Preparation 11
Monolithic Slab-On-Grade Foundation 12
Deep Foundations 14
Straight Drilled Shaft Axial Capacity 14
Drilled Shaft Soil Induced Uplift Loads 14
Drilled Shaft Lateral Loading 15
Grade Beams/Pier Caps 16
Drilled Shafts Construction Considerations 16
Floor Slabs 17
Structural Floor System 18
Floor Slabs on Modified Subgrade 18
Retaining Walls 20
Wall Foundations 20
Shallow Footings- Construction Considerations 21
Lateral Earth Pressures 21
Wall Drainage Considerations 22
Wall Backfill Settlement 22
Pavements 22
Pavement Subgrades 22
Pavement Traffic 23
Pavement Section Thicknesses 24
Pavement Maintenance 25
General Comments 26

Figures

GeoModel

Attachments

Exploration and Testing Procedures
Site Location and Exploration Plans
Exploration and Laboratory Results
Supporting Information

Note: This report was originally delivered in a web-based format. **Blue Bold** text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the terracon logo will bring you back to this page. For more interactive features, please view your project online at **client.terracon.com**.

Refer to each individual Attachment for a listing of contents.

Report Summary

Topic [1]	Overview Statement [2]
Project Description	The project includes an approximately 14,000 sf single-story building. Estimated maximum loads: Columns: 150 kips, Walls: 2 to 4 kips/ft, Slabs: 250 psf Paved driveway and parking areas are planned on about 2¼ acres of the parcel.
Geotechnical Characterization	Some areas of existing fill up to 6 feet deep. Fat clays to depths of about 4 to 23 feet Partially weathered rock below 4 to 23 feet Groundwater observed during and at the completion of borings B-1 and B-2 during our exploration
Earthwork	Remove existing fill from building pad area and further evaluate areas where existing fill is present after site stripping. Clays are sensitive to moisture variation.
Building Pad Preparation	The building pad area should be prepared to reduce potential vertical movements by moisture conditioning the on-site soils and capping them with flexible base material.
Monolithic Slab-On-Grade Foundation	A monolithic slab-on-grade foundation can be used to support the structure provided the building pad is prepared with moisture conditioned soil with a flexible base cap.
Deep Foundations	Drilled shafts are a common foundation type in this region and can be used to support the structure loads through a combination of end bearing and skin friction in gray limestone.
Floor Slabs	A structurally suspended floor system should be used if floor movement of less than 1 inch are required. If floor slab movements on the order of 1 inch are acceptable, the floor slab can be supported on a modified subgrade.
Pavements	Asphalt and concrete paving can be considered at this site. If asphaltic concrete is used, the subgrade should be modified with lime. Portland cement concrete pavements can be placed on a compacted subgrade without lime. These pavements are not equal in performance. The portland cement concrete pavement is expected to require less maintenance.

General Comments	This section contains important information about the limitations of this geotechnical engineering report.

1. If the reader is reviewing this report as a pdf, the topics above can be used to access the appropriate section of the report by simply clicking on the topic itself.
2. This summary is for convenience only. It should be used in conjunction with the entire report for design purposes.

Introduction

This report presents the results of our subsurface exploration and Geotechnical Engineering services performed for the proposed building to be located in Dallas, Texas. The purpose of these services was to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil (and rock) conditions
- Groundwater conditions
- Seismic site classification per IBC
- Site preparation and earthwork
- Foundation design and construction
- Floor slab design and construction
- Pavement design and construction

The geotechnical engineering Scope of Services for this project included the advancement of test borings, laboratory testing, engineering analysis, and preparation of this report.

Drawings showing the site and boring locations are shown on the **Site Location** and **Exploration Plan**, respectively. The results of the laboratory testing performed on soil samples obtained from the site during our field exploration are included on the boring logs in the **Exploration Results** section.

Project Description

Our initial understanding of the project was provided in our proposal and was discussed during project planning. A period of collaboration has transpired since the project was initiated, and our final understanding of the project conditions is as follows:

Item	Description
Information Provided	An email request for proposal was provided by GSR Andrade Architect on October 4, 2022. The request included conceptual plan drawings of the project layout.
Project Description	The project includes construction of a single-story building with a footprint of about 14,000 sf. Associated pavements are also planned on about 2¼ acres of the parcel.
Proposed Structure	Steel framed building with grade-supported floor slab supported on either a monolithic slab-on-grade or a drilled shaft foundation.

Item	Description
Finished Floor Elevation	Finished floor elevation for the building is anticipated to be ±1 feet of existing grade.
Maximum Loads	■ Columns: 150 kips ■ Walls: 2 to 4 kips per linear foot (klf) ■ Slabs: 250 pounds per square foot (psf)
Below-Grade Structures	None
Free-Standing Retaining Walls	Low height retaining walls less than 5 feet in height are anticipated for site grading.
Pavements	Paved driveway and parking will be constructed on 2¼ acres of the parcel. Both flexible and concrete pavement sections are considered. Typical pavement traffic for a design period of 20 years is as follows: ■ 45,000 18-kip ESALs for Light Duty Pavement ■ 100,000 18-kip ESALs for Medium Duty Pavement ■ 250,000 18-kip ESALs for Heavy Duty Pavement

Terracon should be notified if any of the above information is inconsistent with the planned construction, especially the grading limits, as modifications to our recommendations may be necessary.

Site Conditions

The following description of site conditions is derived from our site visit in association with the field exploration and our review of publicly available geologic and topographic maps.

Item	Description
Parcel Information	The project is located at 4403 W. Illinois Avenue in Dallas, Texas. The site is about 5 acres. Approximate GPS coordinates: 32.720929 N, 96.892446 W. See **Site Location**
Existing Improvements	Existing buildings and pavements.
Current Ground Cover	Asphalt paved parking lot, scattered trees, and grassy area in northwest portion of the site.

Item	Description
Existing Topography	Based on topographical information available at **www.dfwmaps.com**, the site generally slopes downwards from north to south with ground elevations varying from about 630 to 624 feet. A drainage feature extends north-south along the north portion of the west property boundary.

Geotechnical Characterization

We have developed a general characterization of the subsurface conditions based upon our review of the subsurface exploration, laboratory data, geologic setting and our understanding of the project. Conditions observed at each exploration point are indicated on the individual logs. The individual logs can be found in the **Exploration Results** and the GeoModel can be found in the **Figures** attachment of this report.

As part of our analyses, we identified the following model layers within the subsurface profile. For a more detailed view of the model layer depths at each boring location, refer to the GeoModel.

Model Layer	Layer Name	General Description
1	**Pavement**	Asphalt concrete, 5 to 7 inches
2	**Fill**	Clayey sand (SC) and sandy fat clay (CH), brown, gray, dark brown, and tan, with base material and tan limestone
3	**Overburden Soil**	Fat clay (CH), dark gray and tan, with ferrous stains, calcareous nodules and limestone fragments
4	**Weathered Bedrock**	Limestone, tan
5	**Bedrock**	Limestone, gray

The borings were advanced using dry rotary drilling technique that allow short term groundwater observations to be made while drilling. Groundwater was encountered at depths of about 13 to 18 feet while advancing borings B-1 and B-2, respectively, and was measured at depths of about 9 to 16 feet at the completion of drilling the borings. Groundwater was not encountered in borings P-1 and P-2. Groundwater conditions may be different at the time of construction. Groundwater conditions may change because of seasonal variations in rainfall, runoff, and other conditions not apparent at the time of drilling. Long-term groundwater monitoring was outside the scope of services for this project.