CCISD Priority Repairs - FAPE GOFE ROBE

CLEAR CREEK ISD

CCISD PROJECT NO: 2025.402

FALCON PASS ELEMENTARY SCHOOL

GOFORTH ELEMENTARY SCHOOL

ROBINSON ELEMENTARY SCHOOL

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11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

COVER

SHEET NO.

CLEAR CREEK ISD

CCISD PROJECT NO: 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

COVER

CCISD Priority Repairs - FAPE GOFE ROBE

CLEAR CREEK ISD

ABBREVIATIONS

A
A.F.F.	ABOVE FINISH FLOOR
A.C.T.	ACOUSTICAL CEILING TILE
ADDL.	ADDITIONAL
A.B.	AIR BARRIER
A.C.M.	ALUMINUM COMPOSITE PANEL
A.D.A.	AMERICANS WITH DISABILITIES ACT
AL/ALUM.	ALUMINUM
APPROX.	APPROXIMATE OR APPROXIMATELY
ARCH.	ARCHITECT OR ARCHITECTURAL

B
BD.	BOARD
B.O.W.	BOTTOM OF WALL
B.U.R.	BUILT-UP ROOFING
BLDG.	BUILDING

C
℄	CENTER LINE
C.R.	CLASSROOM
C.F.S.	COLD-FORMED STEEL
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
C.M.	CONSTRUCTION MANAGER
CONT.	CONTINUOUS
C.I.	CONTINUOUS INSULATION
C.J.	CONTROL JOINT
COORD.	COORDINATE
CORR.	CORRIDOR

D
DIA.	DIAMETER
D.O.	DOOR OPENING
DN.	DOWN
DS.	DOWNSPOUT

E
EA.	EACH
E.W.	EACH WAY
ELEC.	ELECTRICAL
E.W.C.	ELECTRIC WATER COOLER
ELEV.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXIST.	EXISTING
E.J.	EXPANSION JOINT
EXT.	EXTERIOR
EIFS	EXTERIOR INSULATION & FINISH SYSTEM

F
FT.	FEET or FOOT
F.R.P.	FIBERGLASS REINFORCED PLASTIC
F.V.	FIELD-VERIFY
FIN.	FINISH
F.F.	FINISH FLOOR
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER & CABINET
F.H.C.	FIRE HOSE CABINET
F.H.C.S.	FLAT-HEAD COUNTERSUNK
FLR.	FLOOR
F.D.	FLOOR DRAIN
FLUOR.	FLUORESCENT

G / H
GALV.	GALVANIZED
GA.	GAGE
G.C.	GENERAL CONTRACTOR
G.O.	GLAZED OPENING
GYP	GYPSUM
HT.	HEIGHT
H.P.	HIGH POINT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.B.	HORIZONTAL BLINDS
H.D.G.	HOT-DIP GALVANIZED
HR.	HOUR

I / J / K
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
I.B.C.	INTERNATIONAL BUILDING CODE

L
LAV.	LAVATORY
L.L.H.	LONG LEG HORIZONTAL
L.L.V.	LONG LEG VERTICAL
L.P.	LOW POINT
L.V.T.	LUXURY VINYL TILE

M
MFR.	MANUFACTURER
MFG.	MANUFACTURING
M.B.	MARKER BOARD
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MECH.	MECHANICAL

M (CONT.)
MOD BIT	MODIFIED BITUMEN
MULL.	MULLION
M.E.P.	MECHANICAL-ELECTRICAL-PLUMBING
M.C.M.	METAL COMPOSITE MATERIAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS

N
NOM.	NOMINAL
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO./#	NUMBER

O
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OHD.	OVERHEAD
O.F.C.I.	OWNER-FURNISHED, CONTRACTOR-INSTALLED
O.F.O.I.	OWNER-FURNISHED, OWNER INSTALLED

P / Q
PR.	PAIR
P.LAM.	PLASTIC LAMINATE
PL.	PLATE
PLUMB.	PLUMBING
PT.	POINT
P.C.F.	POUNDS PER CUBIC FOOT
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PREFAB.	PREFABRICATED
PROJ.	PROJECTOR or PROJECTION
Q.T.	QUARRY TILE

R
R.	RADIUS
REBAR	REINFORCING BAR
REF.	REFERENCE or REFER TO
R.C.P	REFLECTED CEILING PLAN
RE:	REGARDING
REFG.	REFRIGERATOR
REINF.	REINFORCE or REINFORCING
REQD.	REQUIRED
R.	RISER (STAIR)
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING

S
SIM.	SIMILAR
S.C.	SOLID CORE
S.A.B.	SOUND ATTENUATION BLANKET
S.A.F.B.	SOUND ATTENUATION FIRE BLANKET
S.T.C.	SOUND TRANSMISSION CLASS
SPEC.	SPECIFICATION
SQ.	SQUARE
S.F.	SQUARE FOOT
S.S.	STAINLESS STEEL
STRUC.	STRUCTURAL
SUSP.	SUSPENDED

T
T.B.	TACKBOARD
T.W.	TACK WALL
T.C.	TEACHER'S CABINET
T.A.S.	TEXAS ACCESSIBILITY STANDARDS
T.	TREAD (STAIR)
T&B	TOP & BOTTOM
T.O.	TOP OF
T.C.	TOP OF CURB
T.O.D.	TOP OF DECK
T.O.J.	TOP OF JOIST
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL

U / V
U/C	UNDER COUNTER
U.L.	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT.	VERTICAL
V.C.T.	VINYL COMPOSITION TILE
V.W.C	VINYL WALL COVERING

W / X / Y / Z
W.C.	WATER CLOSET
W.R.B.	WATER-RESISTIVE BARRIER
WT.	WEIGHT
W.	WIDE
W/	WITH
W/O	WITHOUT
W.P.	WORKING POINT
W.W.F.	WELDED WIRE FABRIC

MATERIAL INDICATIONS

- EARTH
- POROUS FILL
- CONCRETE/ GROUT
- BRICK
- CMU (LARGE SCALE)
- MARBLE
- METAL (LARGE SCALE)
- METAL (SMALL SCALE)
- RESILIENT FLOORING
- ACOUSTICAL TILE
- TERRAZZO
- PLASTER, SAND, GROUT
- CERAMIC TILE
- GLASS (LARGE SCALE)
- INSULATION (RIGID FOAM BOARD)
- INSULATION (EPS FOAM BOARD)
- INSULATION (BATT/ BLANKET)
- INSULATION (SEMI-RIGID BOARD)
- WOOD, ROUGH (CONTINUOUS)
- WOOD, ROUGH (BLOCKING)
- WOOD, FINISH
- PLYWOOD (LARGE SCALE)
- FIBER CEMENT PANEL
- METAL LATH
- GYPSUM BOARD

PROJECT INFORMATION

PROJECT IDENTIFICATION

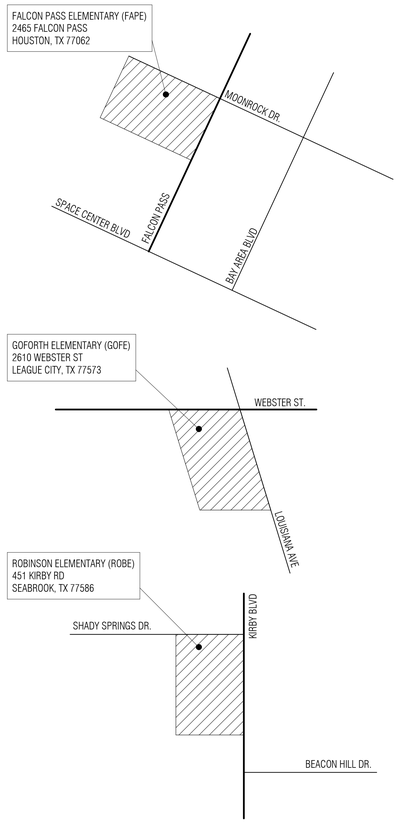
PROJECT NAME - CCISD PRIORITY REPAIRS - FAPE GILE ROBE

OWNER - CLEAR CREEK I.S.D.

PROJECT LOCATION:
FALCON PASS ELEMENTARY SCHOOL - 2465 FALCON PASS DR, HOUSTON, TX 77062
GOFORTH ELEMENTARY SCHOOL - 2610 WEBSTER ST, LEAGUE CITY, TX 77573
ROBINSON ELEMENTARY SCHOOL - 451 KIRBY RD, SEABROOK, TX 77586

TDLR PROJECT REGISTRATION NUMBER - TABS2024XXXXX

SITE LOCATION MAP



SYMBOLS LEGEND

- CLASSROOM A201 — ROOM NAME & NUMBER
- A203 — DOOR NUMBER
- A — ALUMINUM-FRAMED GLAZED OPENING SYSTEM
- G1 G2 — HOLLOW METAL-FRAMED GLAZED OPENING SYSTEM
- P1 — PARTITION TYPE
- ABC-01 — BUILDING ASSEMBLY TYPE
- SHEET NO. / DWG. NO. — BUILDING ELEVATION
- DWG. NO. / SHEET NO. — BUILDING SECTION
- DWG. NO. / SHEET NO. — WALL SECTION
- LOUVER
- 8 — KEYED NOTE
- NORTH ARROW
- HR — HORIZONTAL BLINDS
- DWG. NO. 3/A8.01 SHEET NO. — INTERIOR ELEVATION
- DWG. NO. 6/A4.05 SHEET NO. — SECTION DETAIL
- AC — ACCESS CONTROL
- DATUM ELEVATION

GENERAL NOTES

1. Refer to the CODE-series sheets tor Code Information, Design Criteria and Fire Protection Requirements.
2. Verify and document existing dimensions and conditions at the site before beginning construction. Notify the Architect of conflicts or variations prior to commencement of construction.
3. Based on the applicable design criteria, submit Shop Drawings of the proposed pattern of control joints in masonry veneer, CMU, gypsum board, plaster and stucco to the Architect for review and approval prior to construction.
4. In case of discrepancies in or between the Contract Documents, the greater quantity or better quality shall be bid. Clarifications regarding the discrepancies shall be requested from the Architect prior to construction, and the resulting interpretations implemented in accordance with the Contract Documents.

INDEX TO DRAWINGS

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CLEAR CREEK ISD

CCISD PROJECT NO: 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

REGISTERED ARCHITECT — MELINDA E. FLEMING — 26313 — STATE OF TEXAS

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

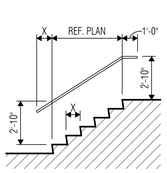
24-046.00

SHEET TITLE

INDEX TO DRAWINGS
GENERAL NOTES
ABBREVIATIONS

SHEET NO.

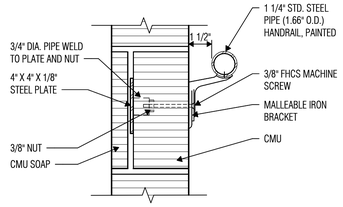
INDEX



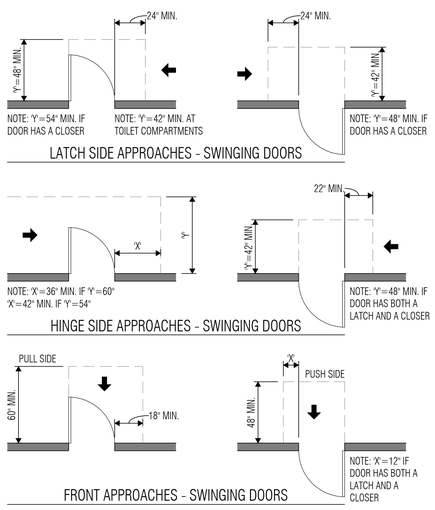
'X'=One Tread Depth

NOTES:
1. Handrails shall be continuous along both sides of stairs. The inside handrail of switchback or dogleg stairs shall always be continuous.
2. If handrails are not continuous, they shall extend at least 12" beyond the top riser and one tread depth beyond the bottom riser. At the top, extension shall be parallel with the floor or ground surface. At the bottom, the handrail shall continue to slope.
3. The clear space between the handrail and the wall shall be 1 1/2".
4. Gripping surfaces shall be continuous.
5. Ends of handrails shall be returned smoothly to floor, wall or post.
6. Handrails shall not rotate in their fittings.

1 TYPICAL STAIR HANDRAIL ELEVATION
SCALE: 1/4" = 1'-0"

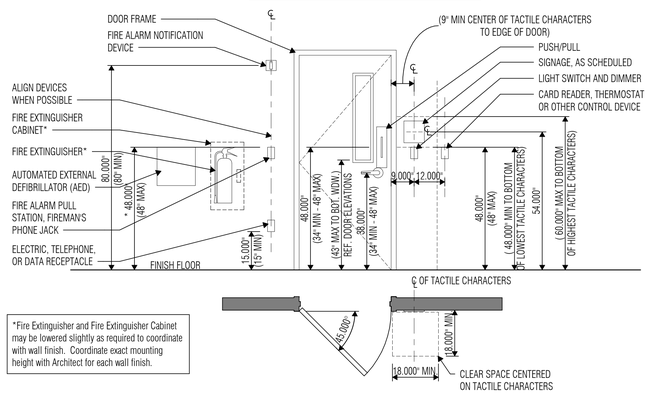


2 MC121 - HANDRAIL DETAIL
SCALE: 3" = 1'-0"



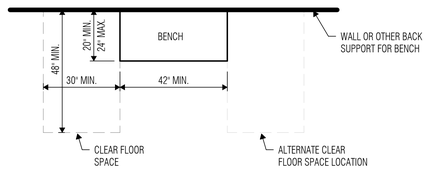
3 MINIMUM MANEUVERING CLEARANCES AT DOORS HC001
SCALE: 1/4" = 1'-0"

NOTES:
1. All items of the same type are to be located at the same height throughout the project, U.N.O. Notify Architect of any discrepancies.
2. Dimensions indicate project requirements. Dimensions in ( ) indicate maximum and/or minimum requirements per Authorities Having Jurisdiction.

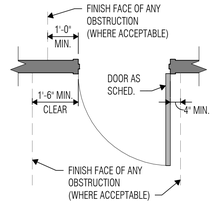


*Fire Extinguisher and Fire Extinguisher Cabinet may be lowered slightly as required to coordinate with wall finish. Coordinate exact mounting height with Architect for each wall finish.

4 MISC ACCESSIBLE MOUNTING CRITERIA HC004
SCALE: 1/2" = 1'-0"



5 TYPICAL BENCH SIZE & CLEAR FLOOR SPACE
SCALE: 1/2" = 1'-0"



NOTES:
1. Confirm compliance of each door clearance prior to the layout or installation of any wall, door, casework or other item which may encroach into the required clearances.
2. Refer to Floor Plans for partition types. This detail applies to all new doors and all existing doors to remain within the areas containing work as defined by the construction documents.

6 TYPICAL DOOR CLEARANCES AT HINGE & STRIKE SIDE HC002
SCALE: 1/2" = 1'-0"

TEXAS ACCESSIBILITY STANDARDS

PROVISIONS FOR ADULTS AND CHILDREN	ADULTS AGES 13 & ABOVE	CHILDREN AGES 12 & UNDER
REACH RANGES		
UNOBSTRUCTED FRONTAL AND SIDE APPROACH	15" MIN. - 48" MAX.	16" MIN. - 44" MAX.
OBSTRUCTED FRONT APPROACH ≤ 20" D. (OPEN UNDER)	48" MAX.	44" MAX.
OBSTRUCTED FRONT APPROACH > 20" D. - 25" D. MAX (OPEN UNDER)	44" MAX.	44" MAX.
OBSTRUCTED SIDE APPROACH ≤ 10" D. - 34" H. MAX	48" MAX.	44" MAX.
OBSTRUCTED SIDE APPROACH > 10" D. - 24" D. MAX & 34" H. MAX	46" MAX.	44" MAX.
RAMPS AND STAIRS		
TOP OF HANDRAIL GRIPPING SURFACE	34" - 38"	34" - 38"
DRINKING FOUNTAINS AND WATER COOLERS		
FRONTAL APPROACH		
SPOUT HEIGHT (TO OUTLET)	36" MAX.	36" MAX.[3]
KNEE CLEARANCE	27" MIN.	27" MIN.[3]
SIDE APPROACH		
SPOUT HEIGHT (TO OUTLET)	USE FRONT APPROACH	USE FRONT APPROACH[3]
KNEE CLEARANCE		
STANDING		
SPOUT HEIGHT (TO OUTLET)	38" MIN. - 43" MAX.	38" MIN. - 43" MAX.[1]
WATER CLOSETS		
CENTERLINE TO WALL OR PARTITION	16" - 18"	12" - 18"
CENTERLINE TO WALL OR PARTITION AT AMBULATORY STALL	17" - 19"	17" - 19"
TOP OF SEAT	17" - 19"	11" - 17"
GRAB BARS (TO TOP OF GRIPPING SURFACE)	33" - 36"	18" - 27"
TOILET TISSUE DISPENSER HEIGHT	15" - 48"	14" - 19"
HAND-OPERATED FLUSH CONTROLS	44" MAX.	36" MAX.
URINALS		
RIM OF BASIN	17" MAX.	17" MAX.[1]
HAND-OPERATED FLUSH CONTROLS	48" MAX.	44" MAX.
LAVATORIES AND SINKS		
RIM OR COUNTER SURFACE	34" MAX.	31" MAX.
KNEE CLEARANCE (LAVATORIES)	27" MIN.	24" MIN.
KNEE CLEARANCE (SINKS)	27" MIN.	24" MIN.
TO FAUCET HANDLES FROM FRONT EDGE	25" MAX.[2]	25" MAX.[1,2]
MIRRORS		
TO TOP OF REFLECTING SURFACE	74" MIN.	74" MIN.
TO BOTTOM OF REFLECTING SURFACE AT LAVS & COUNTERS	40" MAX.	40" MAX.[1]
TO BOTTOM OF REFLECTING SURFACE	35" MAX.	35" MAX.[1]
CONTROLS AND OPERATING MECHANISMS		
HIGHEST OPERABLE PART		
UNOBSTRUCTED FRONTAL AND SIDE APPROACH	48" MAX.	44" MAX.
OBSTRUCTED FRONT APPROACH ≤ 20" D. (OPEN UNDER)	48" MAX.	44" MAX.
OBSTRUCTED FRONT APPROACH > 20" D. - 25" D. MAX. (OPEN UNDER)	44" MAX.	44" MAX.
OBSTRUCTED SIDE APPROACH ≤ 10" D. - 34" D. MAX. & 34" H. MAX.	48" MAX.	44" MAX.
OBSTRUCTED SIDE APPROACH > 10" D. - 24" D. MAX. & 34" H. MAX.	46" MAX.	44" MAX.
FIXED OR BUILT-IN SEATING, TABLES, & WORK STATIONS		
HEIGHT OF TABLES OR COUNTERS	28" - 34"	26" - 30"
KNEE CLEARANCES	27" MIN.	24" MIN.
DRESSING, FITTING & LOCKER ROOMS		
TOP OF BENCH	17" - 19"	17" - 19" [1]
BACK SUPPORT 18" H MIN. OR AFFIX BENCH TO WALL		
FOOD SERVICE LINES		
TOP OF TRAY SLIDE	28" - 34"	28" - 34" [1]

[1] NOTE: Dimension for Children is not specifically addressed in 2012 T.A.S.
[2] NOTE: Faucet handle location cannot be past the back of the allowable toe space, and only 6" deep toe space from the bottom portion of the provided kneespace is allowable for consideration.
[3] NOTE: Where required knee clearance is not provided, spout shall be 30" maximum a.f.f. and no greater than 3 1/2" from front edge/bumper.

TEXAS ACCESSIBILITY STANDARDS NOTES

1. The dimensional ranges included for items on this sheet are the maximum and minimum dimensions allowed by the Texas Accessibility Standards (TAS). There are no tolerances allowed for these dimensions.
2. Mounting criteria for Toilet Accessories on this sheet is the allowable criteria per the TAS. Refer to Sheet A2.3__ for project-specific mounting criteria (if different than the TAS requirements), as well as for non-accessible mounting criteria.

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CLEAR CREEK ISD

CCISD PROJECT NO: 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

REGISTERED ARCHITECT MELINDA E. FLEMING 26313 STATE OF TEXAS

11/14/2024

ISSUED: 11/14/2024

REVISIONS

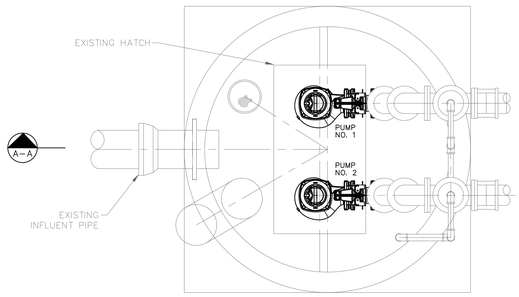
Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

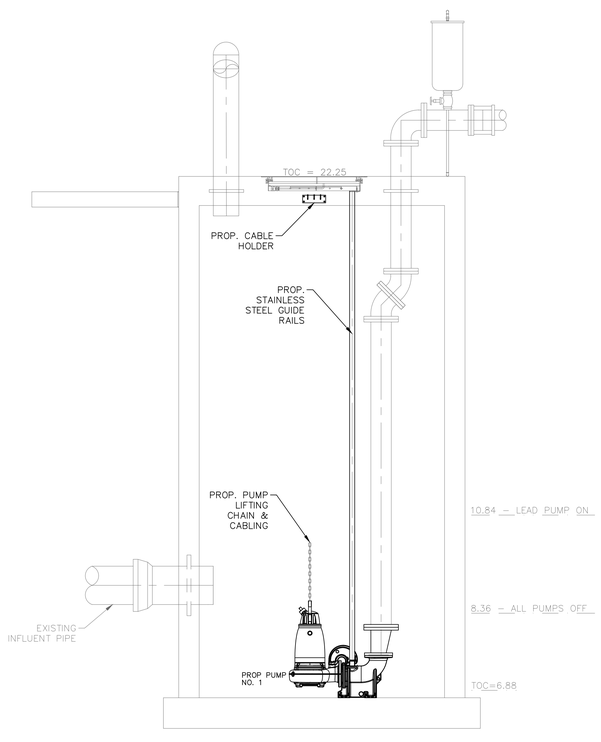
SHEET TITLE
TEXAS ACCESSIBILITY STANDARDS REQUIREMENTS

SHEET NO.
G0.31



LIFT STATION PLAN

SCALE: AS SHOWN



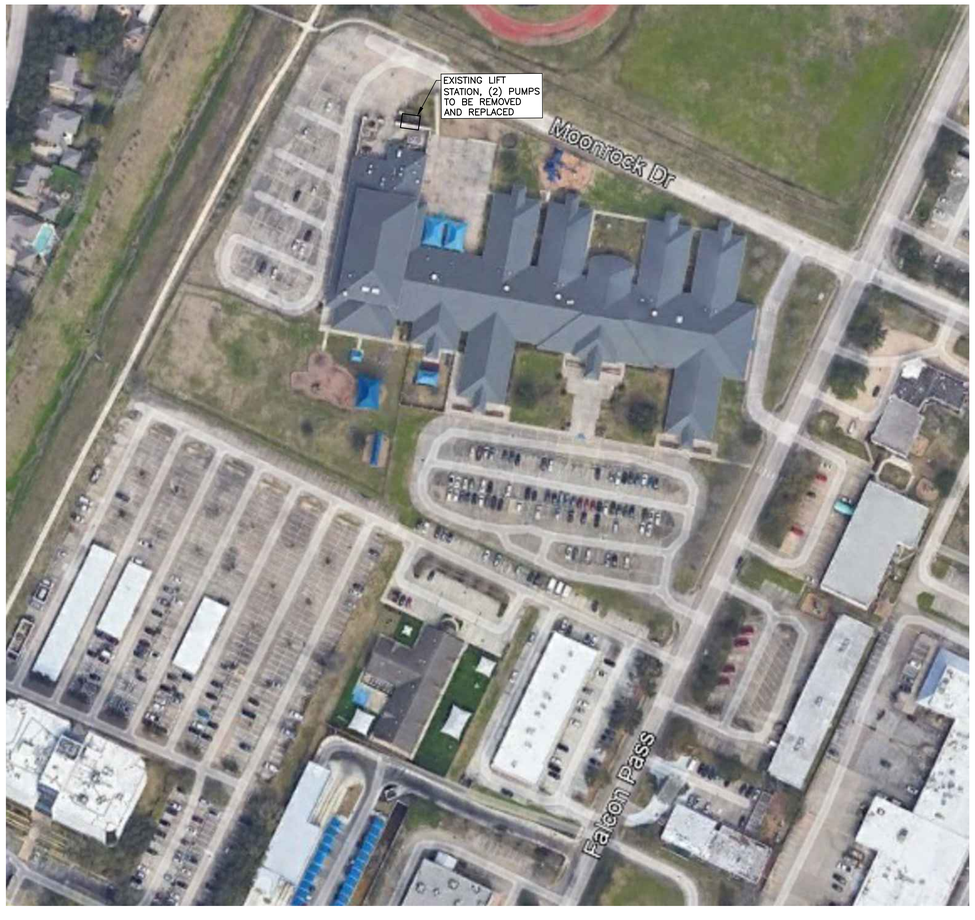
LIFT STATION SECTION DETAIL

SCALE: AS SHOWN

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS, DIMENSIONS AND ORIENTATION OF PIPING (INFLUENT AND EFFLUENT) PRIOR TO FABRICATION AND/OR CONSTRUCTION.
2. FURNISH AND INSTALL TWO (2) LIBERTY LE104M3-2, 1 HP ELECTRIC SUBMERSIBLE PUMPS WITH CONTROLS INSIDE SX34=3-141 NEMA 4X CONTROL PANEL, GUIDE RAILS AND ALL APPURTENANCES FOR A COMPLETE OPERATIONAL SYSTEM.

   OPERATING CONDITION(S): 200 GPM AT 22' TDH
3. CONTRACTOR SHALL MODIFY EXISTING BASE ELBOWS AND PIPING TO ACCOMMODATE NEW PUMPS.
4. CONTROL PANEL NOT SHOWN. LOCATION TO BE DETERMINED ON SITE.
5. SEE ELECTRICAL PLANS FOR ELECTRICAL DESIGN AND DETAILS.



VICINITY MAP

SCALE: AS SHOWN

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CLEAR CREEK I.S.D.
HOUSTON, TEXAS

CCISD PROJECT NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
PRADIP NANTHAVONGDUANGSY
99284
LICENSED PROFESSIONAL ENGINEER
11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

Director	Drawn By
DIR	
Designer	Quality Control
DSN	QC
Proj. Arch.	
PA	

PROJECT NO.

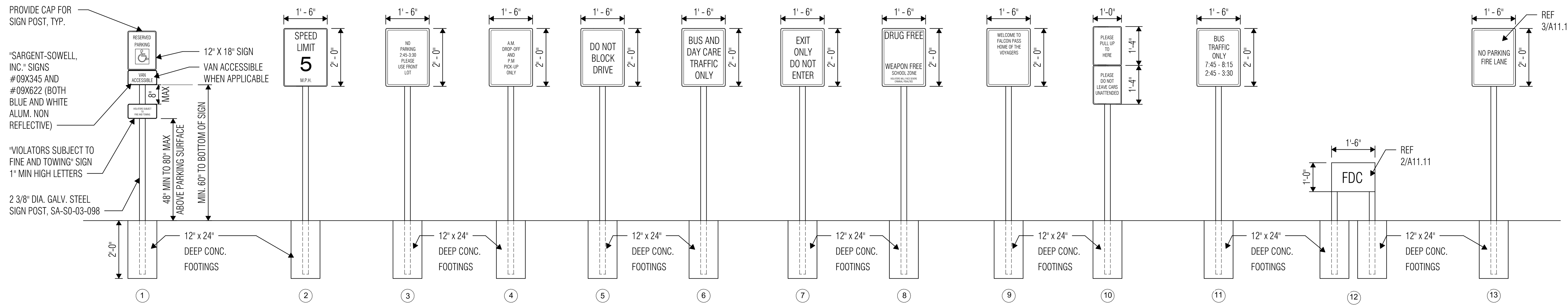
24-046.00

SHEET TITLE

FAPE - LIFT STATION PLAN, SECTION AND DETAILS

SHEET NO.

C10.00

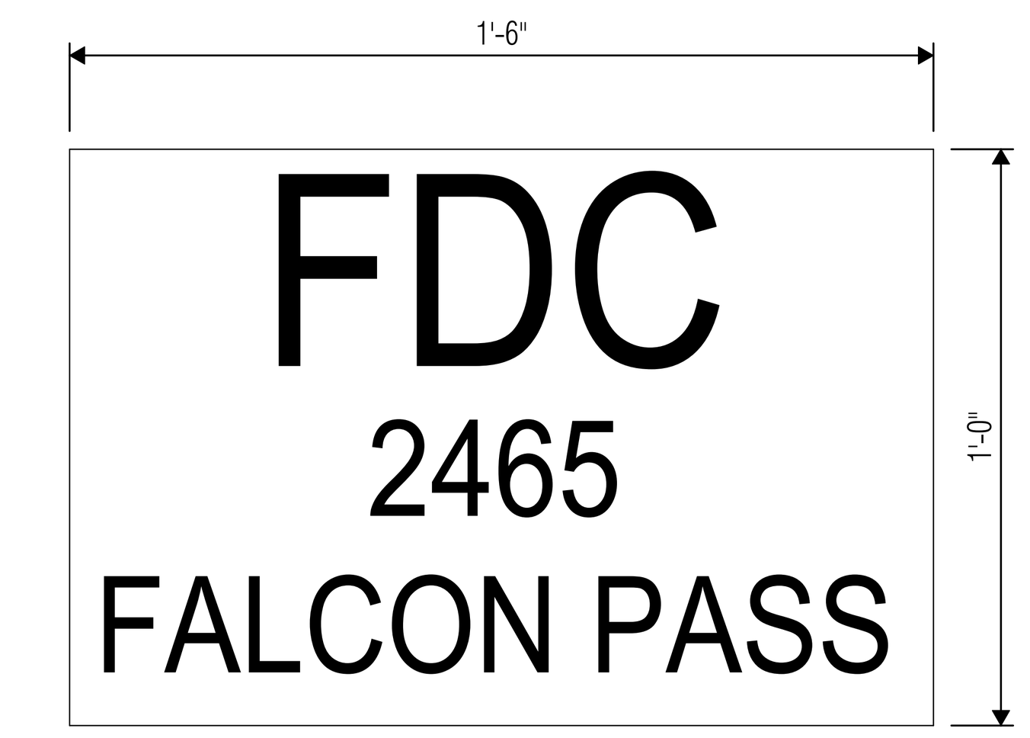


DOUBLE-SIDED

1. VERIFY EXACT TEXT AND GRAPHICS WITH OWNER.
2. SIGNS TO BE POLE MOUNTED U.N.O. ON 4/A11.11.

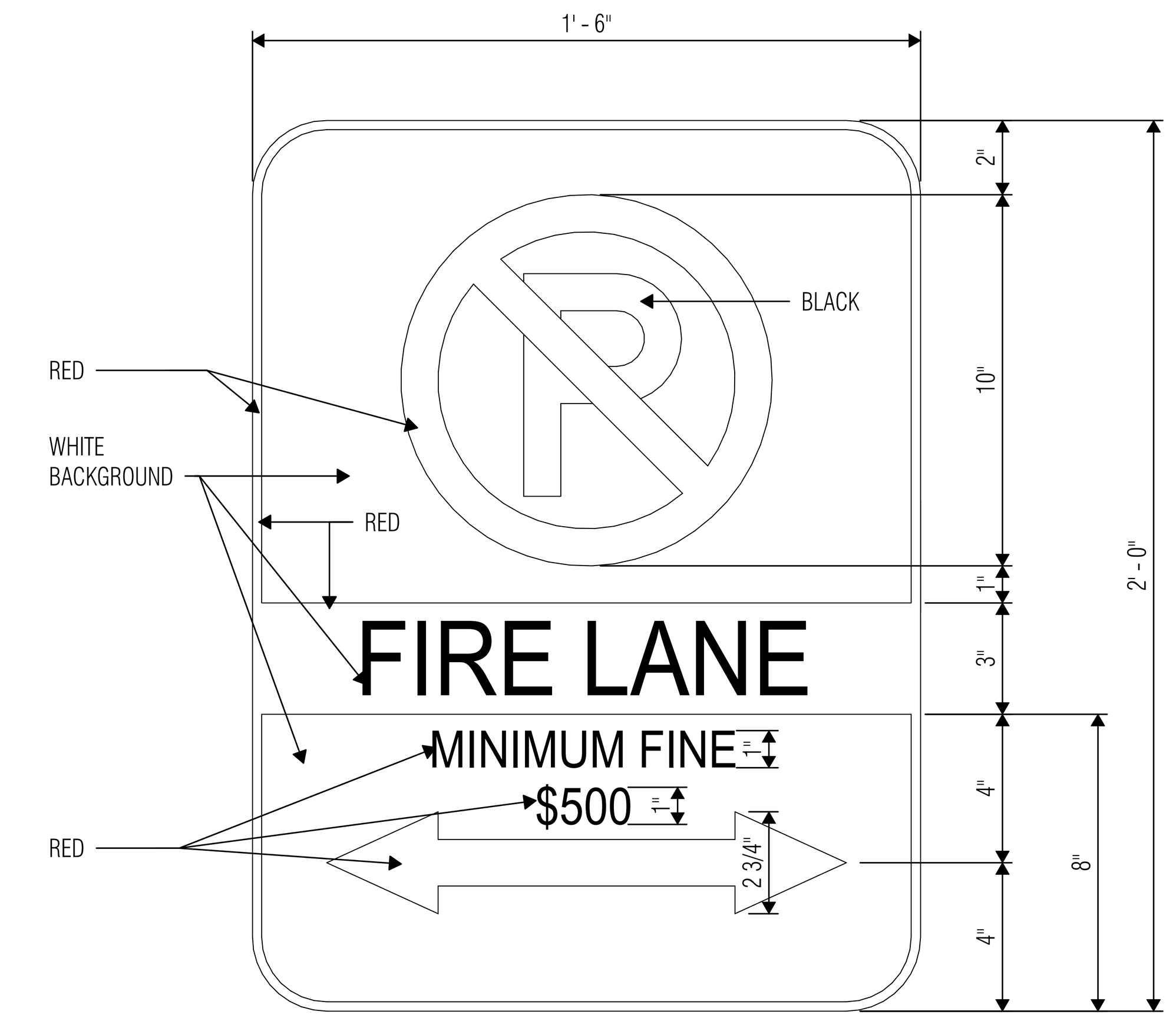
1 TRAFFIC SIGN ELEVATIONS

SCALE: 1/2" = 1'-0"



2 FDC SIGN ELEVATION

SCALE: 3" = 1'-0"



3 FIRE LANE SIGN ELEVATION

SCALE: 3" = 1'-0"

4 EXTERIOR SIGNAGE - SITE PLAN

SCALE: 1" = 20'-0"

SIGNAGE NOTES

1. All exterior signage to be removed and replaced in exact location. GC to verify existing sign dimensions.
2. Replace poles with signage if poles are leaning.

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

REGISTERED ARCHITECT MELISSA E. FLEMING 28313 STATE OF TEXAS
11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - SITE PLAN

SHEET NO.
A11.11

1 FLOOR PLAN - DEMO - UNIT A
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
2. Existing materials containing asbestos to be removed under separate contract prior to construction by Owner's asbestos abatement contractor.
3. Contact the Owner prior to the start of demolition to determine items to be salvaged and returned to Owner.
4. Protect items to remain from damage during demolition.
5. Repair or replace at no cost to the Owner any damages to the existing building and site as a result of construction activities.
6. Refer to electrical and mechanical demolition plan for additional information.
7. Patch/repair flooring to match existing at all removed or demolished doors, windows, walls, millwork, lockers and similar items.
8. GC to remove and protect existing furniture and metal shelving during construction. GC to install in exact location of scope of work to be completed.
9. Floor finish to not impede existing drain cleanout.
10. Remove and reinstall metal shelving at same location prior to floor removal/installation.
11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.
12. Remove and reinstall all room signage if vinyl wallcovering is being installed.
13. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE, RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD3	PREP EXISTING HARDWOOD FLOORING FOR RESTAIN AND RESEAL
MD7	REMOVE EXISTING HANDRAIL. PREPARE WALL AND PLUG EXISTING HOLES AS NEEDED TO RECEIVE NEW HANDRAIL. REPAINT PATCHES.
MD9	REMOVE EXISTING KILN FOR PREPARATION OF NEW FLOORING. GC TO INSTALL IN EXACT LOCATION
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION, PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.

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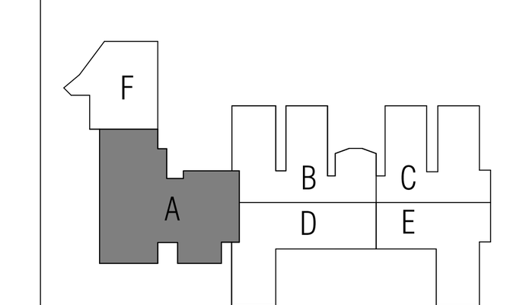
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

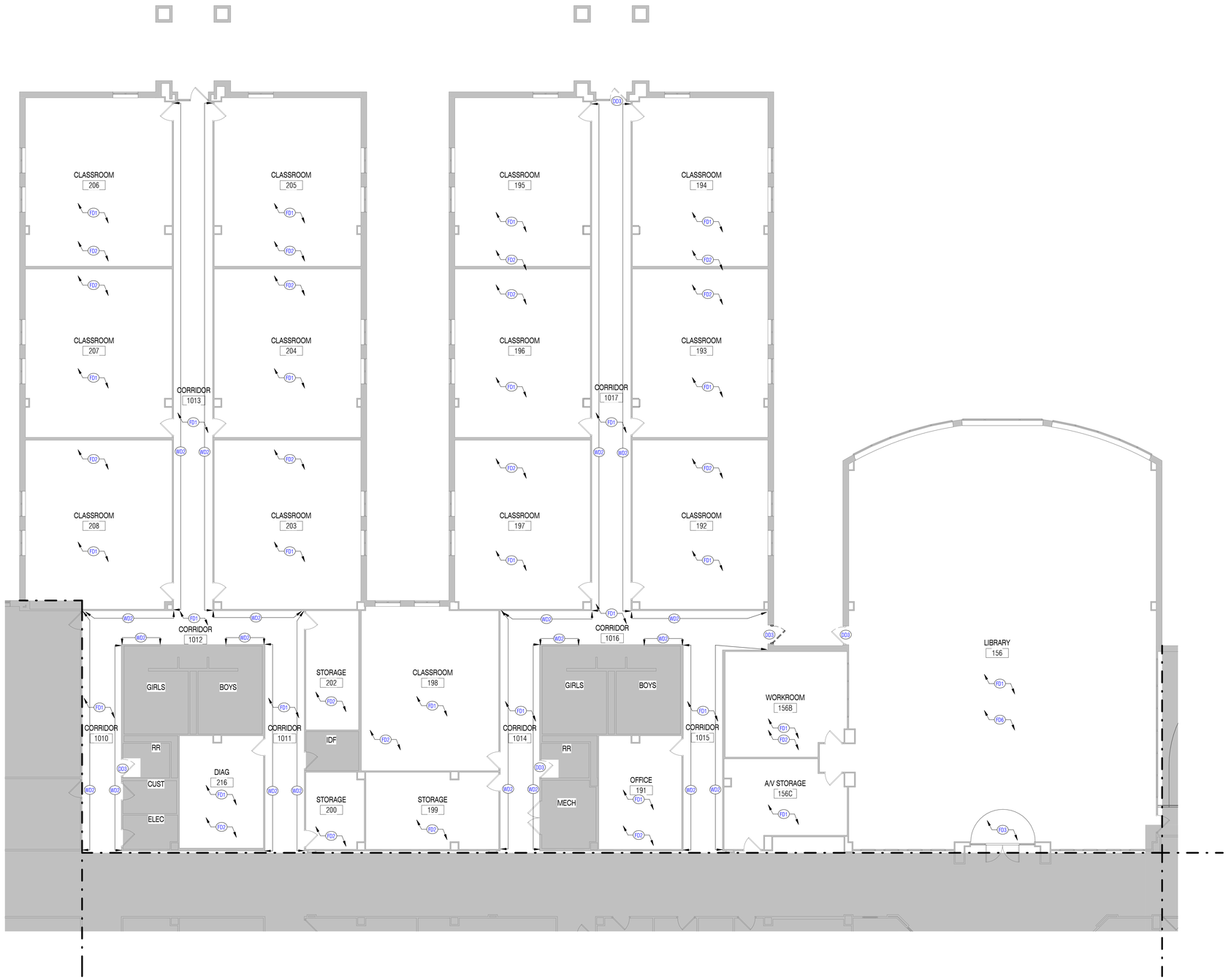
Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO PLAN - UNIT A

SHEET NO.
A12.01A

CCISD Priority Repairs - FAPE GOFE ROBE



PLAN NORTH TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT B
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
2. Existing materials containing asbestos to be removed under separate contract prior to construction by Owner's asbestos abatement contractor.
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11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.
12. Remove and reinstall all room signage if vinyl wallcovering is being installed.
13. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE. RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD3	PREP EXISTING HARDWOOD FLOORING FOR RESTAIN AND RESEAL
FD6	REMOVE AND REPLACE INTERIOR SHELVING FOR INSTALLATION OF SCHEDULED FLOOR FINISHES. SCHEDULED FLOORING TO NOT COVER EXISTING ELECTRICAL FLOOR OUTLETS.
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION, PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO PLAN - UNIT B

SHEET NO.
A12.01B

CCISD Priority Repairs - FAPE GOFE ROBE

N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT C
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
2. Existing materials containing asbestos to be removed under separate contract prior to construction by Owner's asbestos abatement contractor.
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4. Protect items to remain from damage during demolition.
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6. Refer to electrical and mechanical demolition plan for additional information.
7. Patch/repair flooring to match existing at all removed or demolished doors, windows, walls, millwork, lockers and similar items.
8. GC to remove and protect existing furniture and metal shelving during construction. GC to install in exact location of scope of work to be completed.
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11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.
12. Remove and reinstall all room signage if vinyl wallcovering is being installed.
13. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE. RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION, PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.

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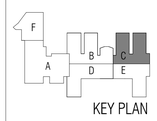
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

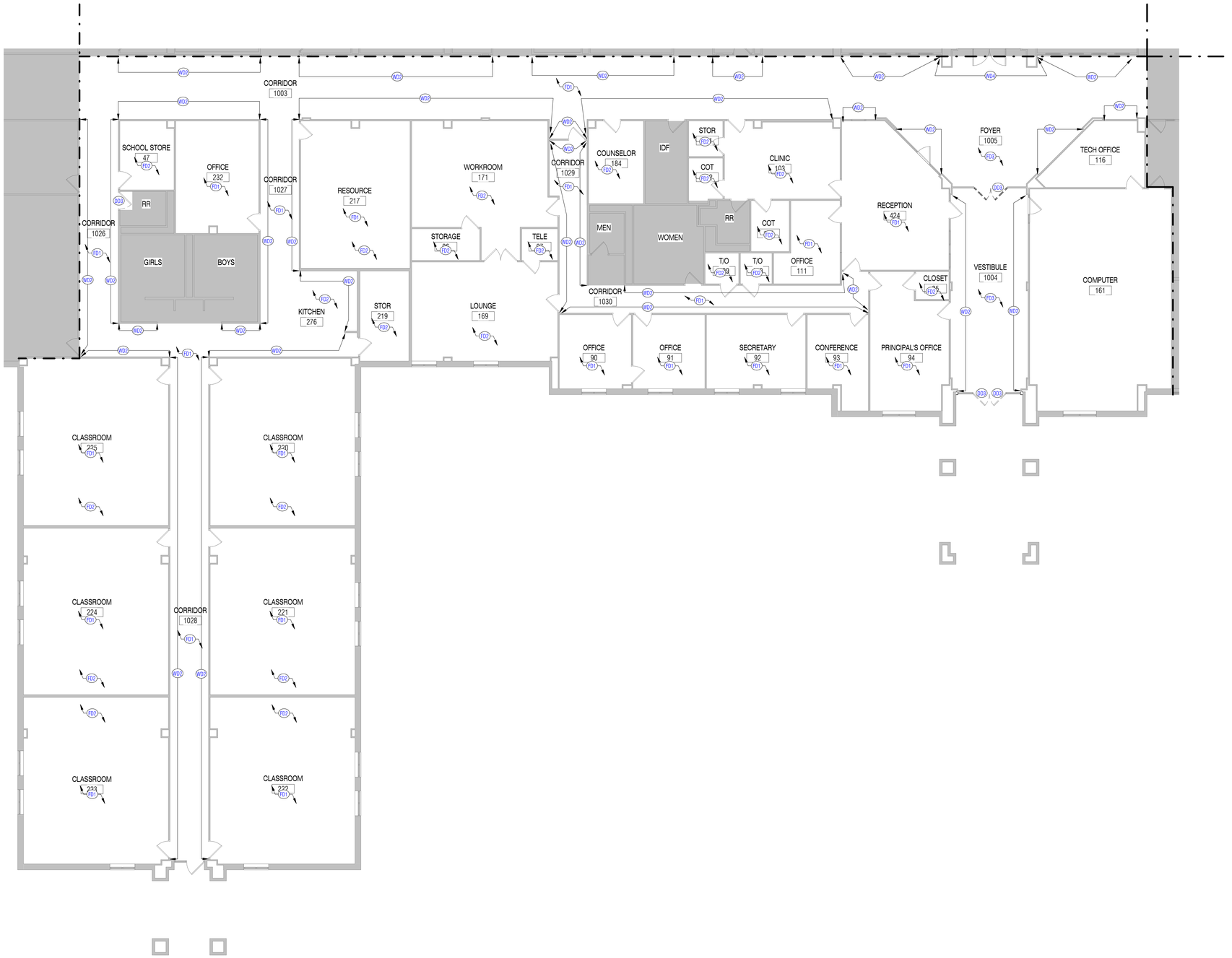
Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO PLAN - UNIT C

SHEET NO.
A12.01C

CCISD Priority Repairs - FAPE GOFE ROBE



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT D
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
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13. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE. RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD3	PREP EXISTING HARDWOOD FLOORING FOR RESTAIN AND RESEAL
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION, PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.
WD4	PRESERVE AND PROTECT EXISTING WALL AND ARTWORK

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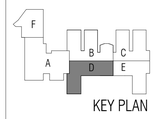
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

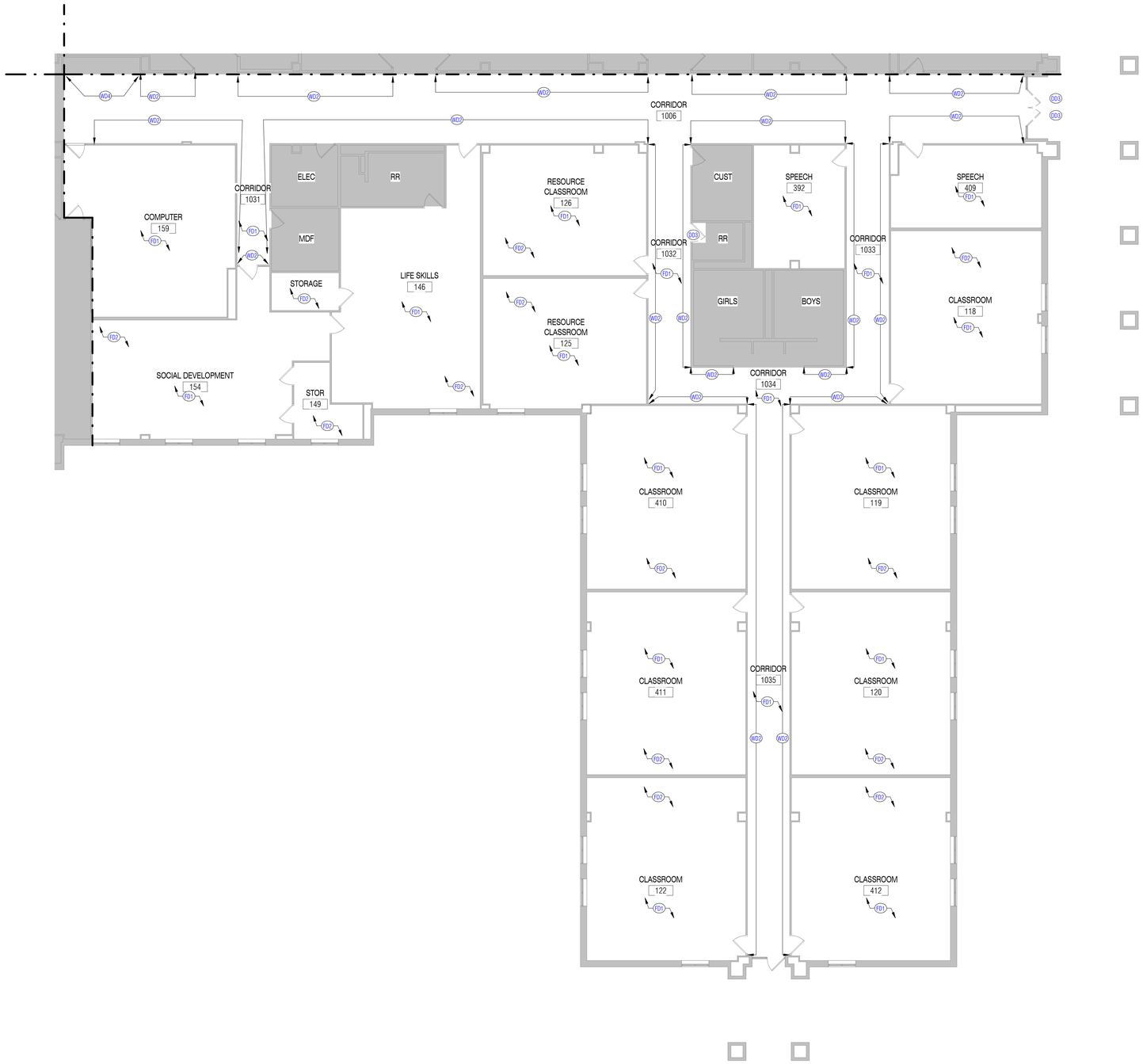
Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO PLAN - UNIT D

SHEET NO.
A12.01D



DEMOLITION NOTES

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12. Remove and reinstall all room signage if vinyl wallcovering is being installed.
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DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE. RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION, PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.
WD4	PRESERVE AND PROTECT EXISTING WALL AND ARTWORK

N
PLAN NORTH

N
TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT E
SCALE: 1/8" = 1'-0"

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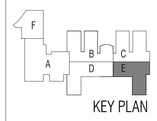
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO PLAN - UNIT E

SHEET NO.
A12.01E

CCISD Priority Repairs - FAPE GOFE ROBE

DEMOLITION NOTES

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11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.
12. Remove and reinstall all room signage if vinyl wallcovering is being installed.
13. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.

N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT F
SCALE: 1/8" = 1'-0"

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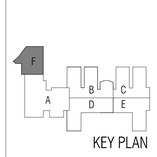
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO PLAN - UNIT F

SHEET NO.
A12.01F

CCISD Priority Repairs - FAPE GOFE ROBE

N

PLAN NORTH TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT A

SCALE: 1/8" = 1'-0"

ALTERNATE KEYNOTES

A3	TILE WAINSCOT THROUGHOUT MAIN CORRIDOR. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A7	REPAINT THROUGHOUT, INCLUDING HANDRAILS AND EXPOSED STRUCTURE.

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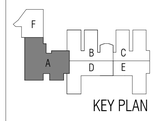
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

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Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

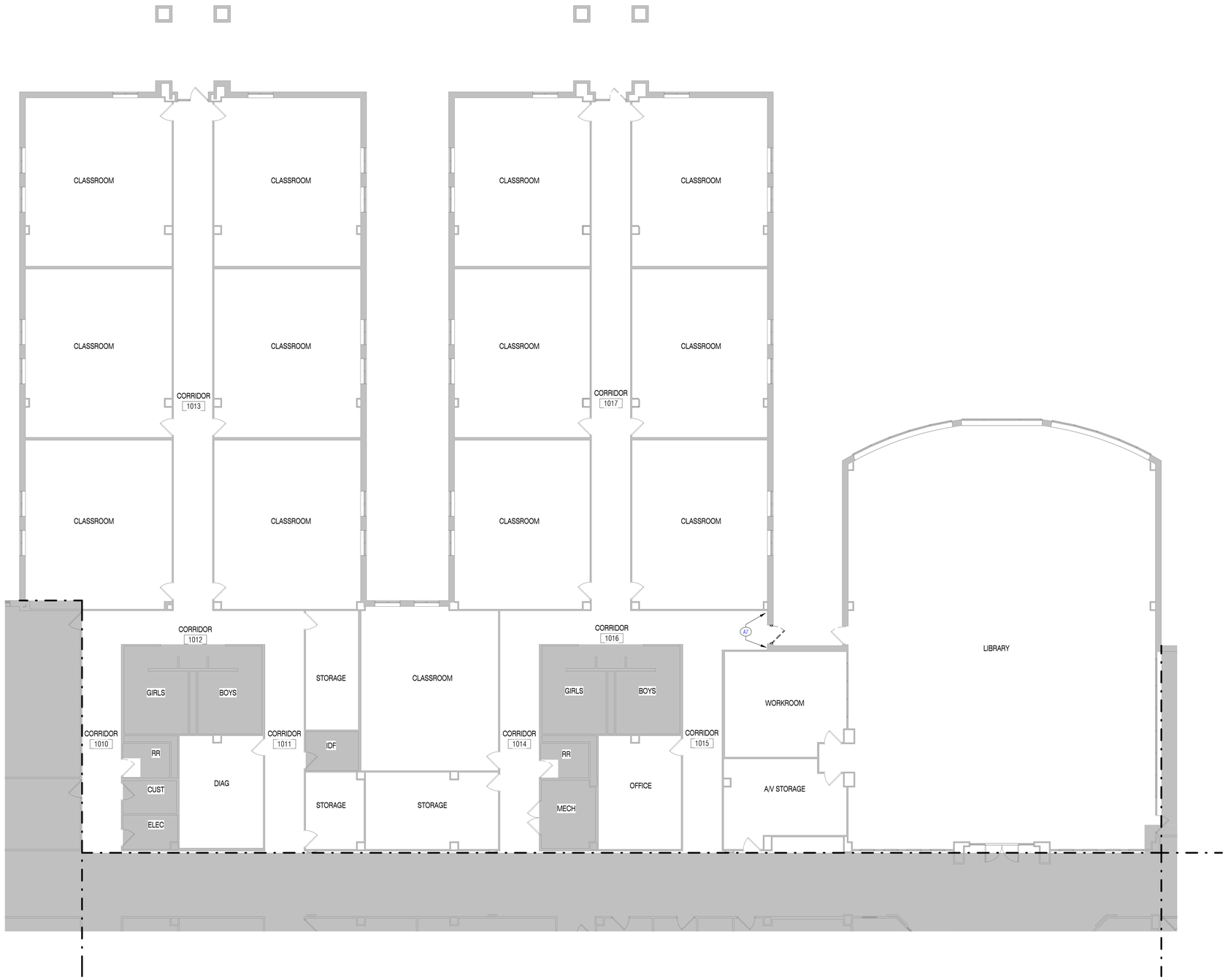
FAPE - ALTERNATE PLAN - UNIT A

SHEET NO.

A12.03A

ALTERNATE KEYNOTES

A7	REPAINT THROUGHOUT, INCLUDING HANDRAILS AND EXPOSED STRUCTURE.



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT B
SCALE: 1/8" = 1'-0"

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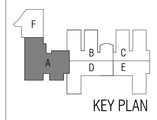


KEY PLAN

REGISTERED ARCHITECT
MELINDA E. FLEMING
76515
STATE OF TEXAS
11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

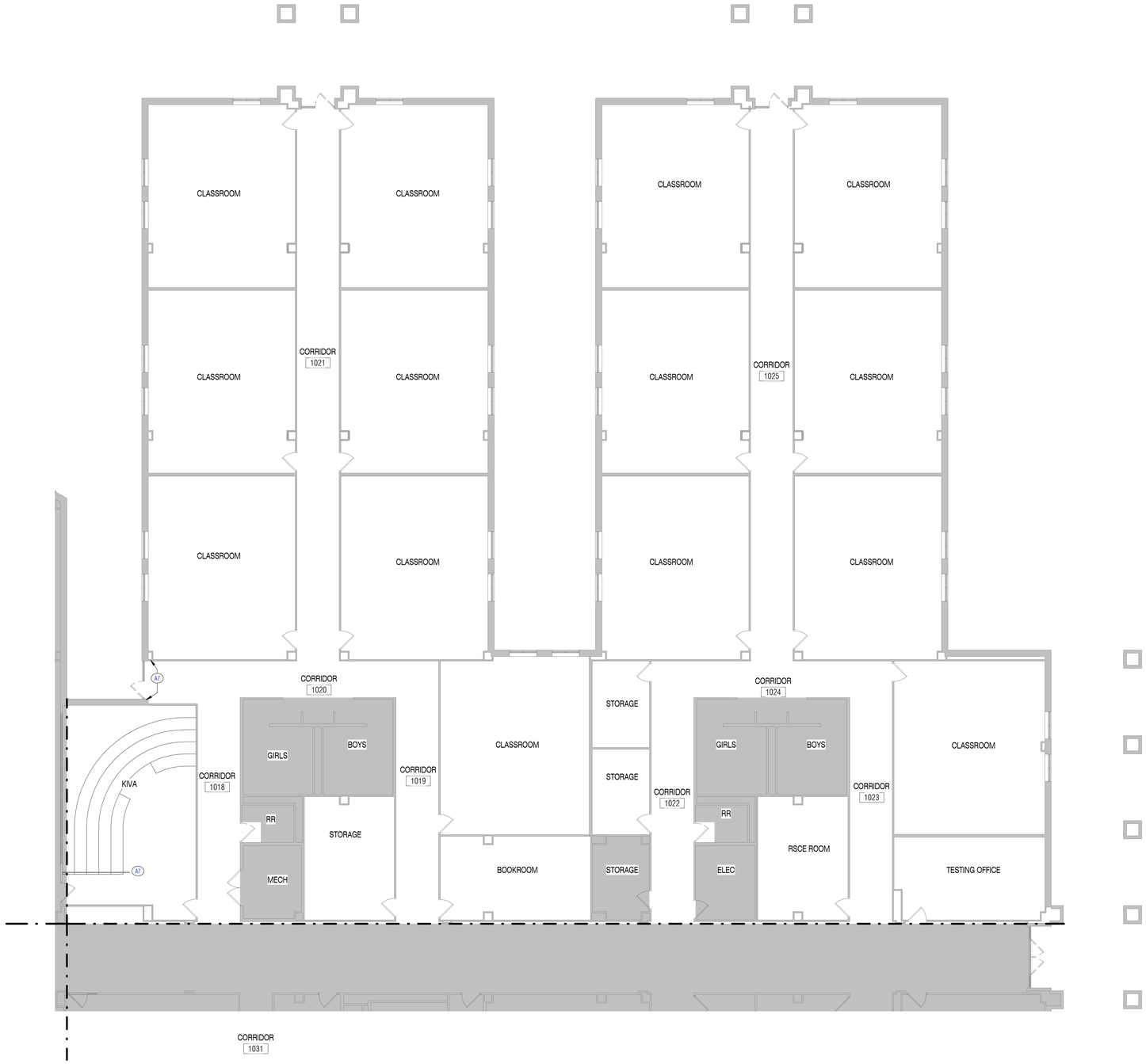
PROJECT NO.
24-046.00

SHEET TITLE
FAPE - ALTERNATE PLAN - UNIT B

SHEET NO.
A12.03B

ALTERNATE KEYNOTES

A7	REPAINT THROUGHOUT, INCLUDING HANDRAILS AND EXPOSED STRUCTURE.



N

PLAN NORTH

TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT C

SCALE: 1/8" = 1'-0"

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ARCHITECT

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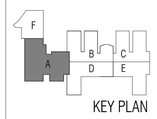
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

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ISSUED: 11/14/2024

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Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - ALTERNATE PLAN - UNIT C

SHEET NO.

A12.03C

N

PLAN NORTH

TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT D

SCALE: 1/8" = 1'-0"

ALTERNATE KEYNOTES

A3	TILE WAINSCOT THROUGHOUT MAIN CORRIDOR. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A4	TILE WAINSCOT AT FRONT AND LIBRARY ENTRY. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. REMOVE WOOD CHAIR RAILING EDGING. REMOVE AND REINSTALL SHELVING IF NEEDED. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A7	REPAINT THROUGHOUT, INCLUDING HANDRAILS AND EXPOSED STRUCTURE.

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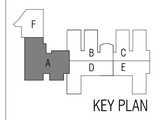
CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

REGISTERED ARCHITECT
MELINDA E. FLEMING
#25313
STATE OF TEXAS

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - ALTERNATE PLAN - UNIT D

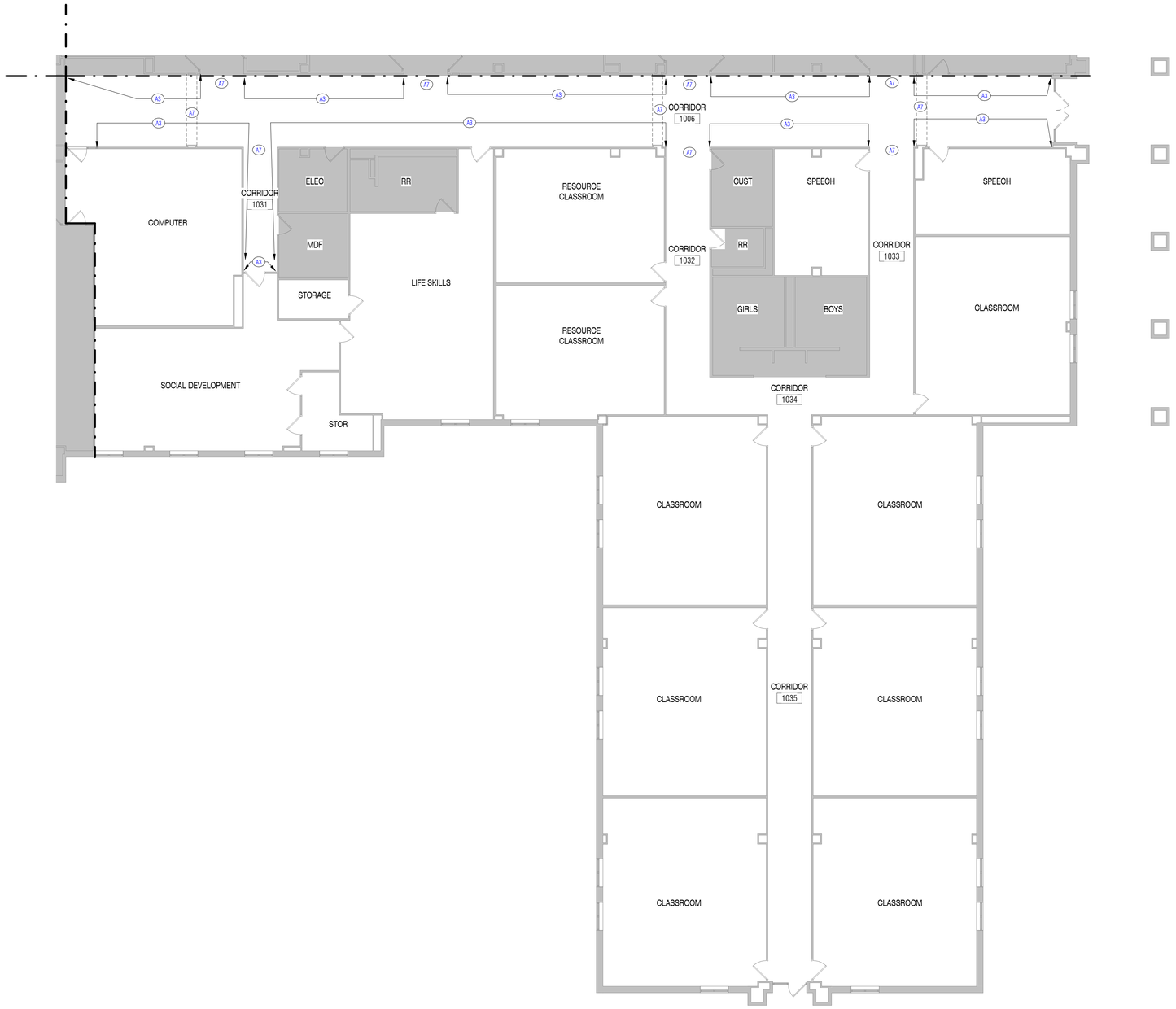
SHEET NO.

A12.03D

CCISD Priority Repairs - FAPE GOFE ROBE

ALTERNATE KEYNOTES

A3	TILE WAINSCOT THROUGHOUT MAIN CORRIDOR. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A7	REPAINT THROUGHOUT, INCLUDING HANDRAILS AND EXPOSED STRUCTURE.



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT E
SCALE: 1/8" = 1'-0"

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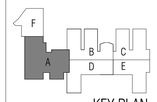
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

REGISTERED ARCHITECT
MELINDA E. FLEMING
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11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - ALTERNATE PLAN - UNIT E

SHEET NO.
A12.03E

ALTERNATE KEYNOTES

N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT F
SCALE: 1/8" = 1'-0"

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CCISD PROJECT NO:
2025.402

KEY PLAN

MELISSA E. FLEMING
REGISTERED ARCHITECT
26313
STATE OF TEXAS

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

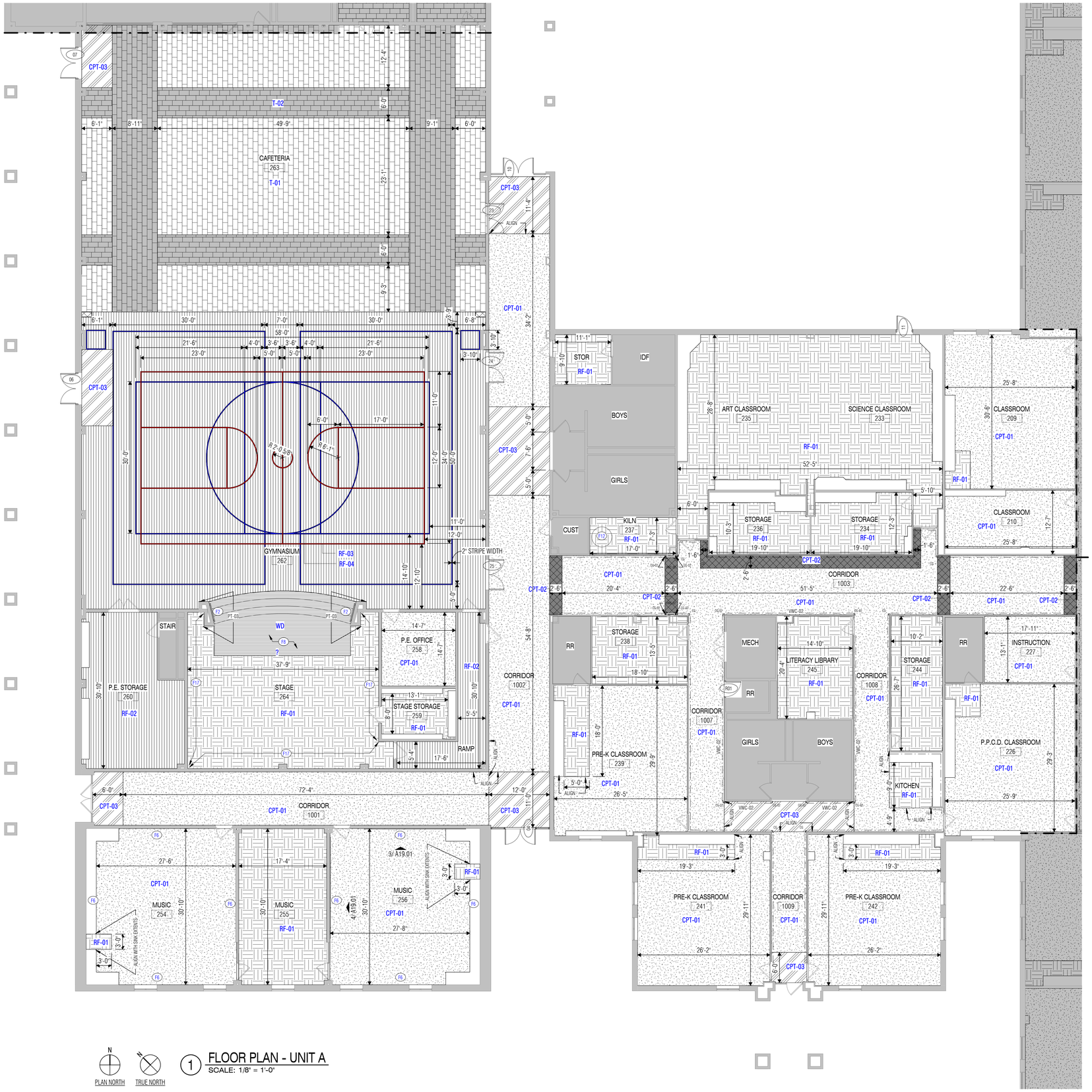
SHEET TITLE

FAPE - ALTERNATE PLAN - UNIT F

SHEET NO.

CCISD Priority Repairs - FAPE GOFE ROBE

A12.03F



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - UNIT A
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

FLOOR PLAN KEYED NOTES

F2	STAINLESS STEEL HANDRAIL
F6	ACOUSTICAL PANELS
F8	WOOD TO BE REFINISHED, STAINED, AND SEALED
F12	EXISTING KILN
F17	BC-02 AT STAGE EXTENTS.

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HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

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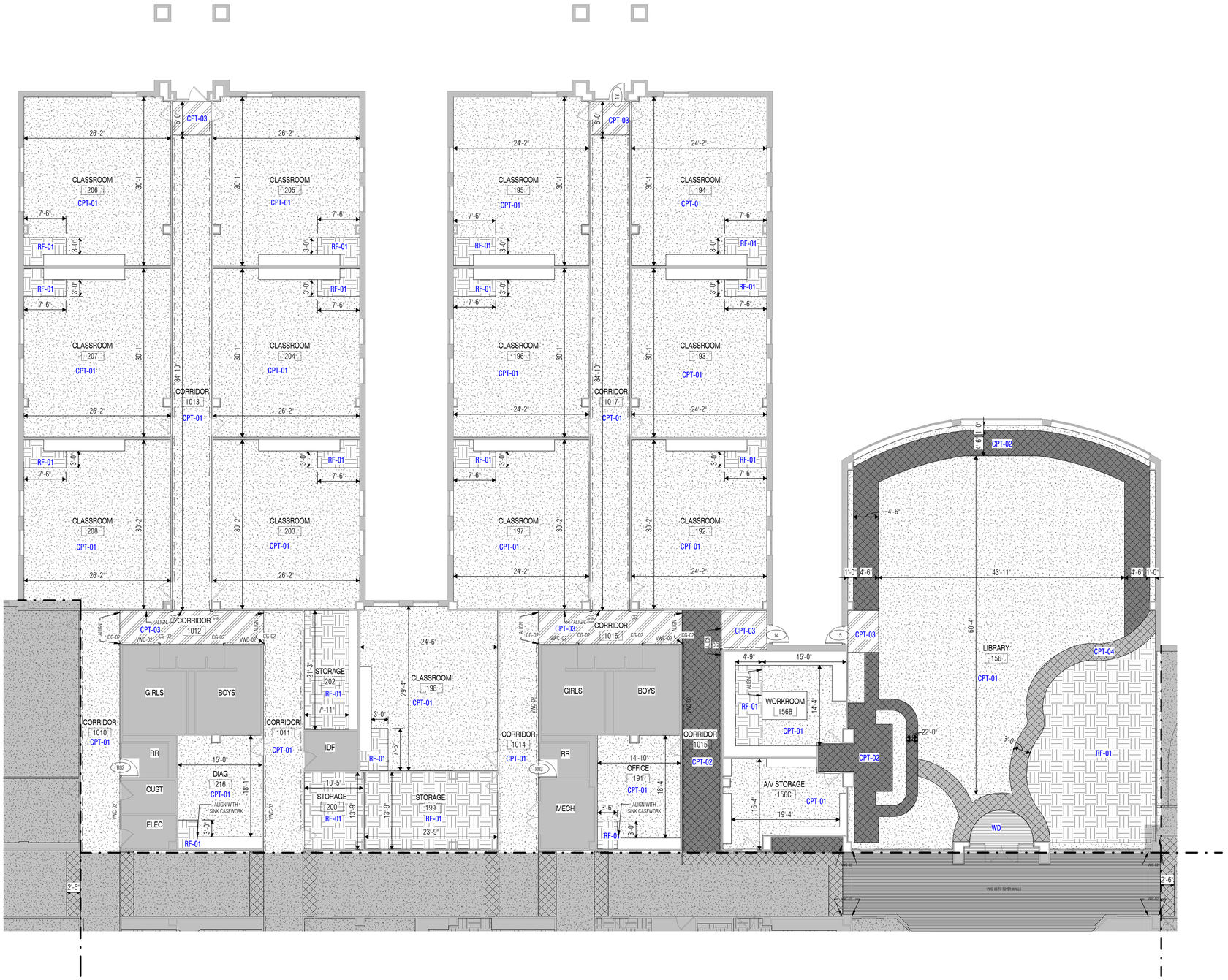
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - FLOOR PLAN - UNIT A

SHEET NO.
A12.11A

CCISD Priority Repairs - FAPE GOFE ROBE



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - UNIT B
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

FLOOR PLAN KEYED NOTES

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HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

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Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - FLOOR PLAN - UNIT B

SHEET NO.
A12.11B

CCISD Priority Repairs - FAPE GOFE ROBE

PLAN NORTH TRUE NORTH

1 FLOOR PLAN - UNIT C
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

CO-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
-·-·-	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

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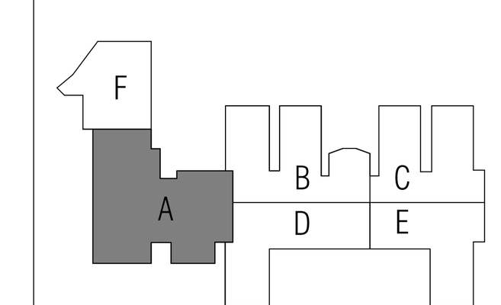


KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No. Revision Date

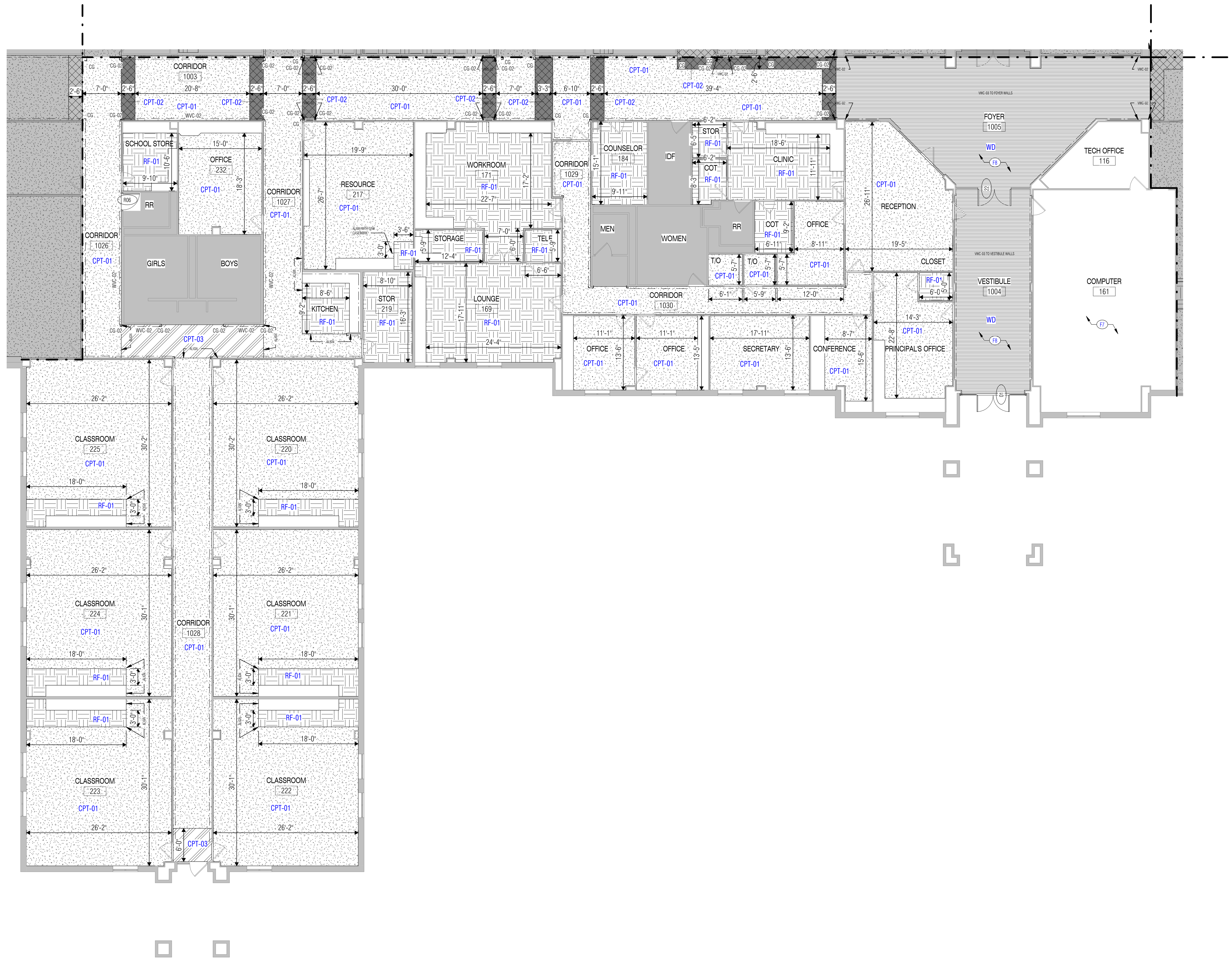
CCISD Priority Repairs - FAPE GOFE ROBE

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - FLOOR PLAN - UNIT C

SHEET NO.
A12.11C



PLAN NORTH   TRUE NORTH

1 FLOOR PLAN - UNIT D

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
— · — · —	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

(shaded)	NOT IN SCOPE

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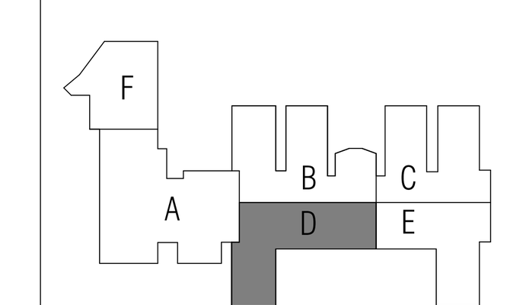
CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

REGISTERED ARCHITECT
MELISSA E. FLEMING
26313
STATE OF TEXAS

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

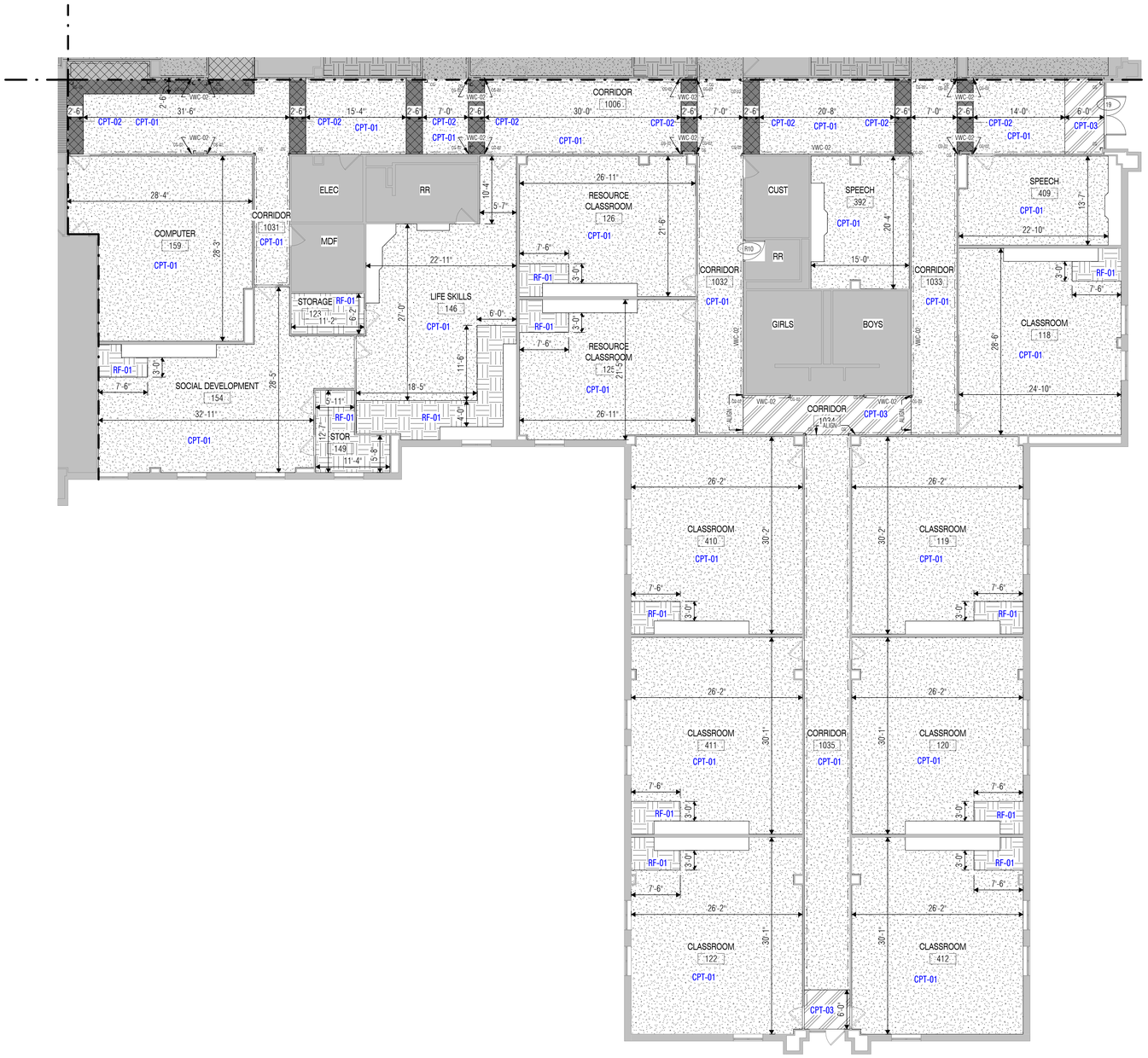
24-046.00

SHEET TITLE

FAPE - FLOOR PLAN - UNIT D

SHEET NO.

A12.11D



N

PLAN NORTH TRUE NORTH

1 FLOOR PLAN - UNIT E
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

	NOT IN SCOPE

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HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

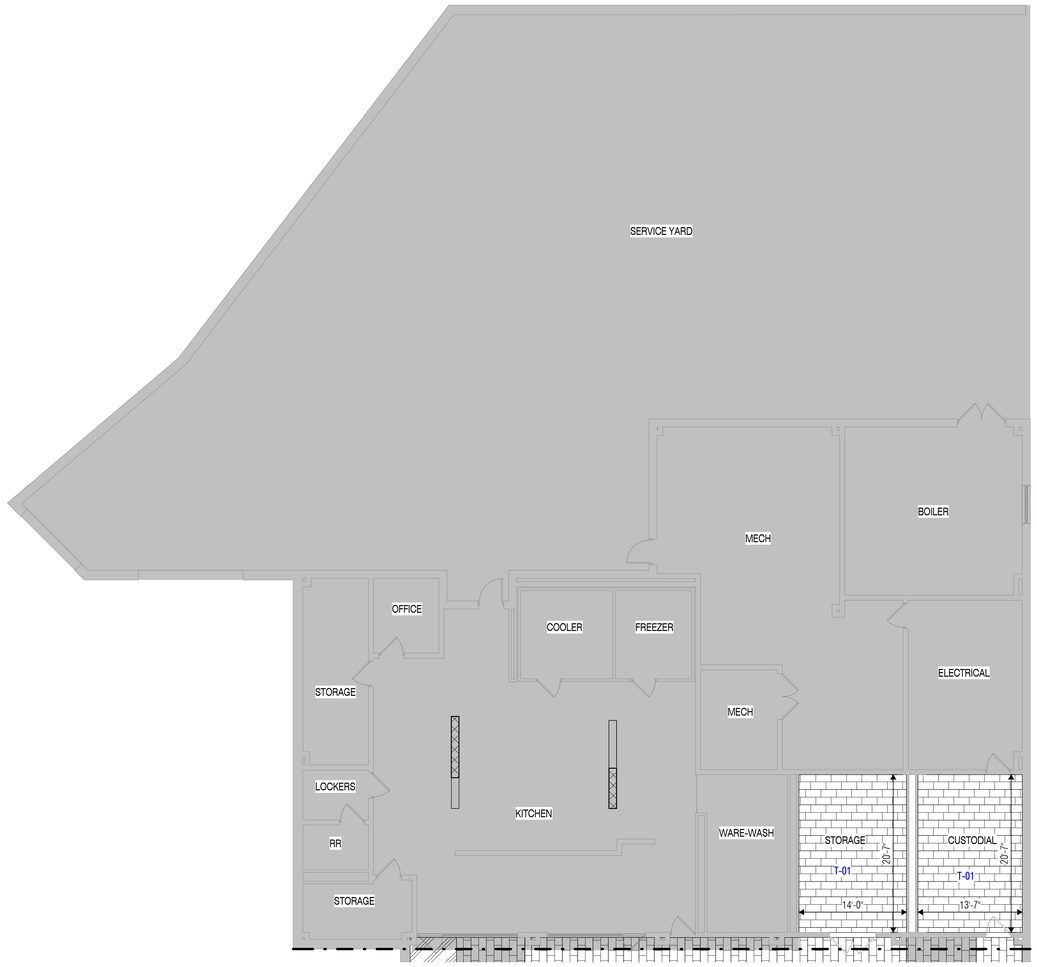
SHEET TITLE
FAPE - FLOOR PLAN - UNIT E

SHEET NO.
A12.11E

CCISD Priority Repairs - FAPE GOFE ROBE

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - UNIT F
SCALE: 1/8" = 1'-0"

INTERIOR FINISH LEGEND

	C0-01	CONCRETE, SEALED
	CPT-01	CARPET - PRIMARY
	CPT-02	CARPET - ACCENT
	CPT-03	CARPET - WALK-OFF
	RF-01	RESILIENT FLOOR - FIELD
	RF-02	RESILIENT FLOOR - GYMNASIUM
	RF-03	RESILIENT FLOOR - RED STRIPING
	RF-04	RESILIENT FLOOR - BLUE STRIPING
	T-01	CERAMIC TILE - CAFETERIA
	T-02	CERAMIC TILE - CAFETERIA ACCENT
	WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

	NOT IN SCOPE

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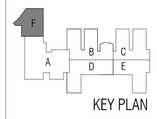
CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

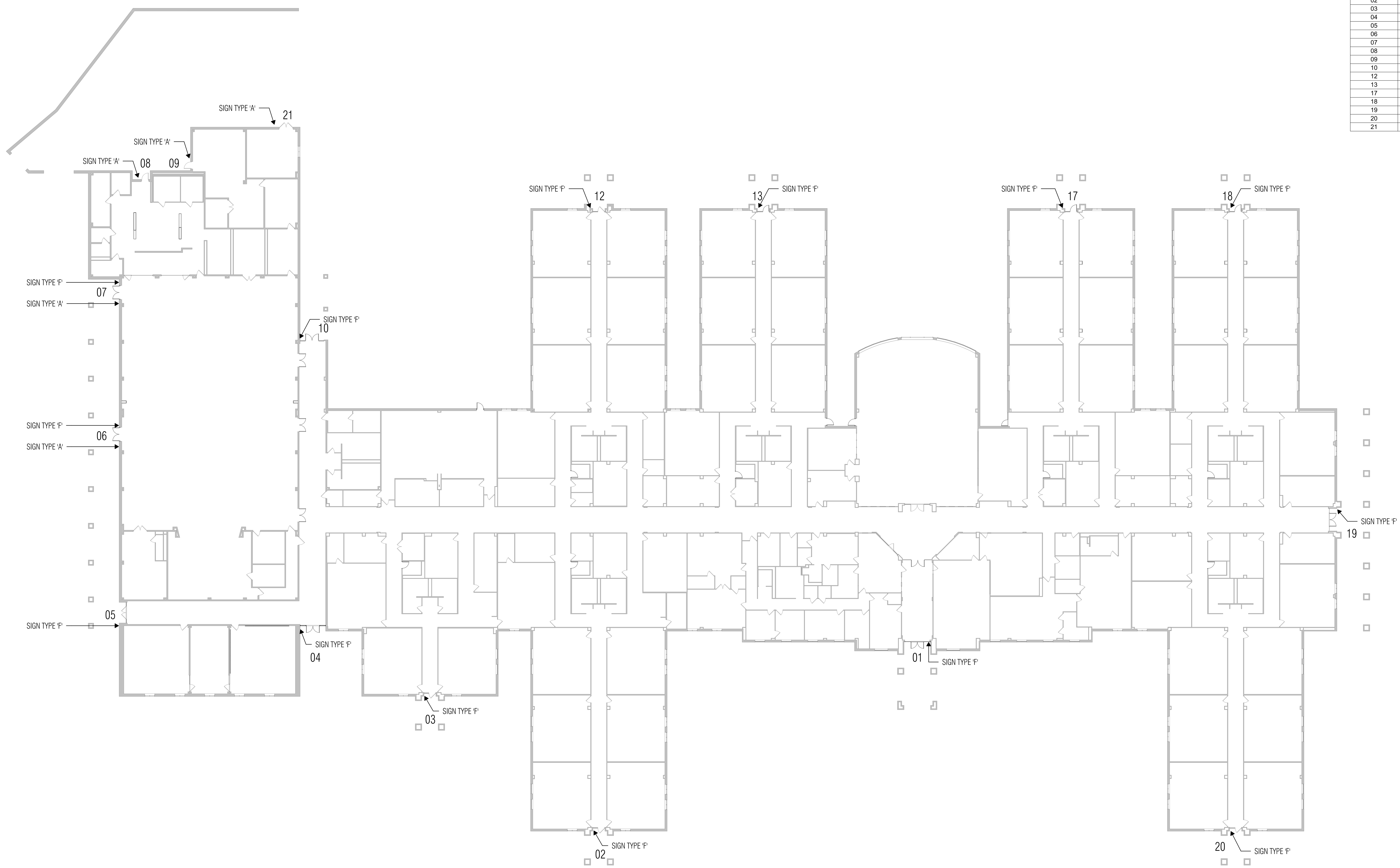
Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

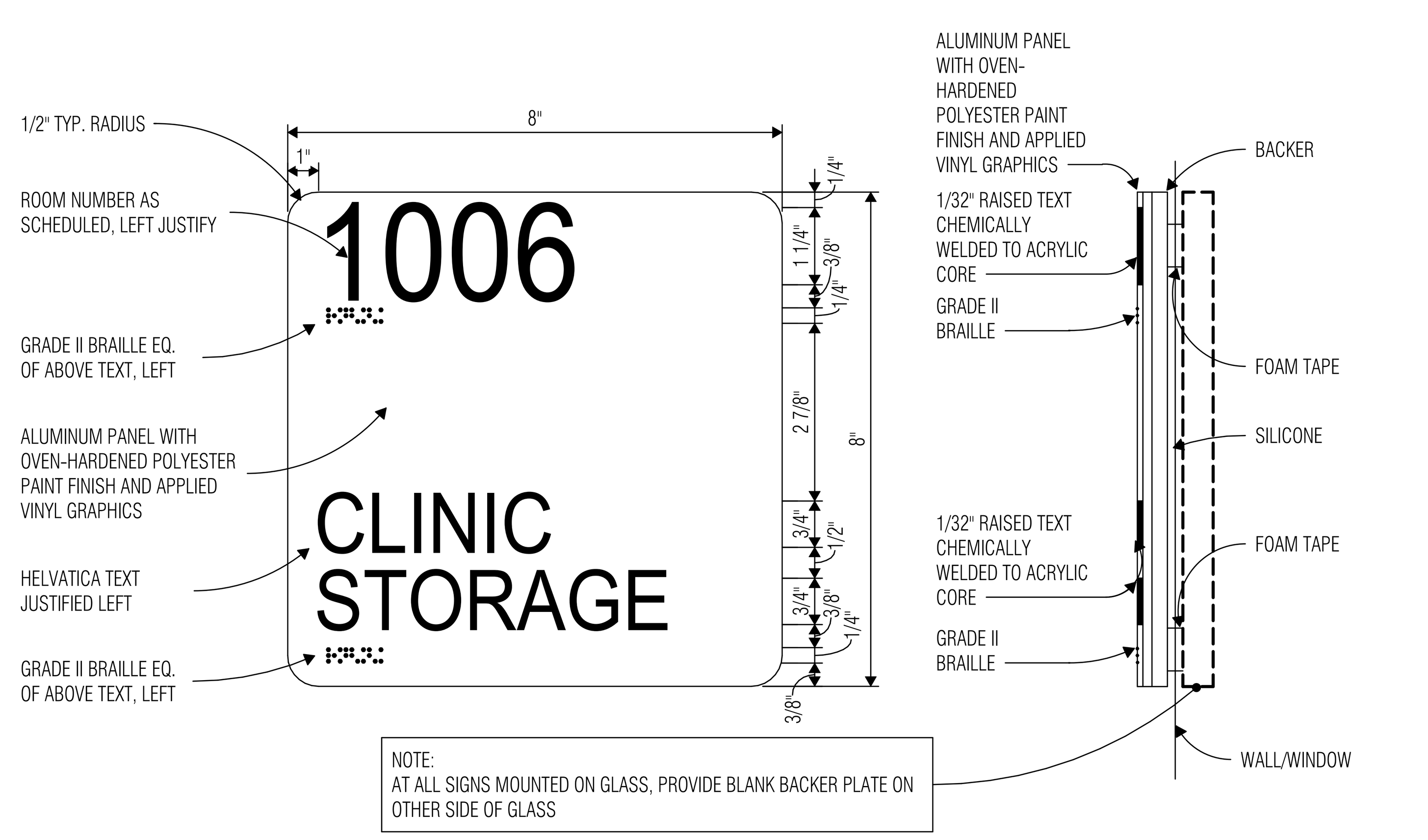
SHEET TITLE
FAPE - FLOOR PLAN - UNIT F

SHEET NO.
A12.11F

GRAPHICS SCHEDULE1			
DOOR NUMBER	SIGNAGE TYPE	SIGNAGE TEXT	REMARKS
01	F		INSTALLED ON GLASS
02	F		INSTALLED ON GLASS
03	F		INSTALLED ON GLASS
04	F		INSTALLED ON GLASS
05	F		INSTALLED ON GLASS
06	A, F	GYMNASIUM	INSTALLED ON BRICK
07	A, F	CAFETERIA	INSTALLED ON BRICK
08	A	KITCHEN DELIVERIES	INSTALLED ON BRICK
09	A	MECHANICAL	INSTALLED ON BRICK
10	F		INSTALLED ON GLASS
12	F		INSTALLED ON GLASS
13	F		INSTALLED ON GLASS
17	F		INSTALLED ON GLASS
18	F		INSTALLED ON GLASS
19	F		INSTALLED ON GLASS
20	F		INSTALLED ON GLASS
21	A	BOILER ROOM	INSTALLED ON BRICK



1 SIGNAGE PLAN
SCALE: 3/64" = 1'-0"



2 SIGNAGE TYPE "A"
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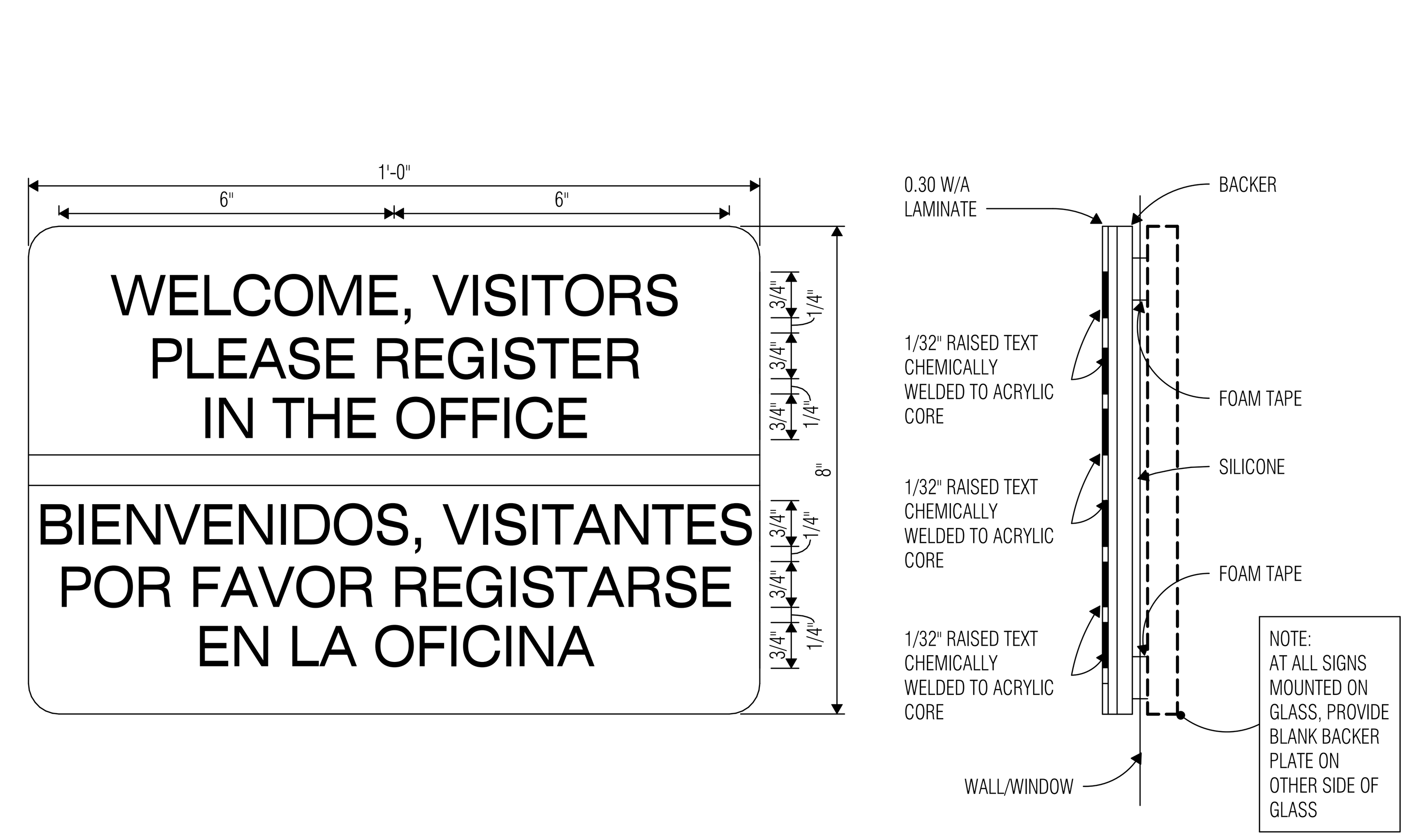

3 SIGNAGE TYPE "F"
SCALE: 6" = 1'-0"

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

REGISTERED ARCHITECT MELISSA E. FLEMING 20319 STATE OF TEXAS
11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No. Revision Date

Director Approver	Drawn By Author
Designer Designer	Quality Control
Proj. Arch. Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - SIGNAGE PLAN, TYPES, & SCHEDULE

SHEET NO.
A12.61

FLOOR PLAN KEYED NOTES

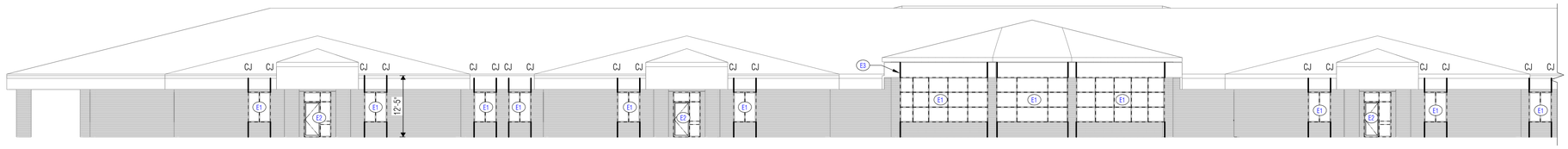
E1	REPLACE WETGLAZE SEALANTS ALONG ALL GLAZING AT STOREFRONT WINDOW.
E2	REPLACE WETGLAZE SEALANTS ALONG ALL GLAZING AT STOREFRONT DOOR SYSTEM. REPLACE DOOR SWEEPS.
E3	REMOVE AND REPLACE EXISTING BUILDING SEALANT AT ALL CONTROL JOINTS.

EXTERIOR ELEVATION NOTES

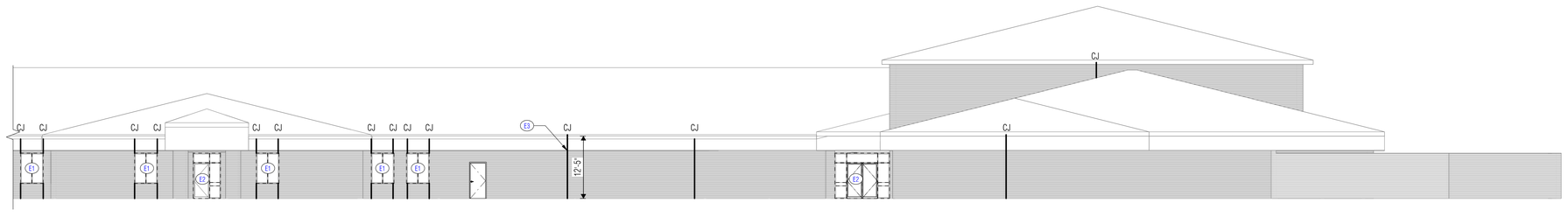
1. GC to reseal all windows and control joints in its exact location. GC to verify all control joint locations and heights

EXTERIOR ELEVATION LEGEND

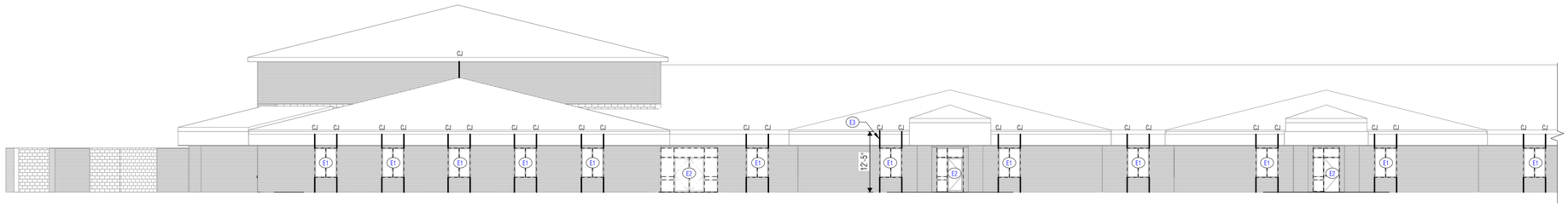
CJ CONTROL JOINT, REF. _ & _/A_.__



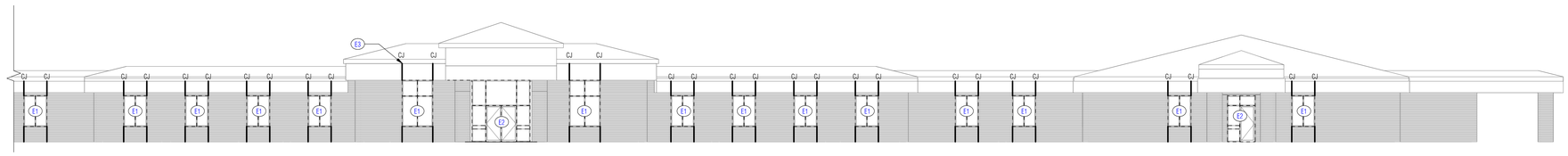
1 BUILDING ELEVATION - NORTH
SCALE: 3/32" = 1'-0"



2 BUILDING ELEVATION - NORTH
SCALE: 3/32" = 1'-0"



3 BUILDING ELEVATION - SOUTH
SCALE: 3/32" = 1'-0"



4 BUILDING ELEVATION - SOUTH
SCALE: 3/32" = 1'-0"

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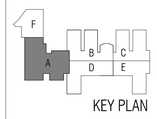


KEY PLAN

REGISTERED ARCHITECT
MELINDA E. FLEMING
#6313
STATE OF TEXAS

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - EXTERIOR ELEVATIONS

SHEET NO.

A13.01

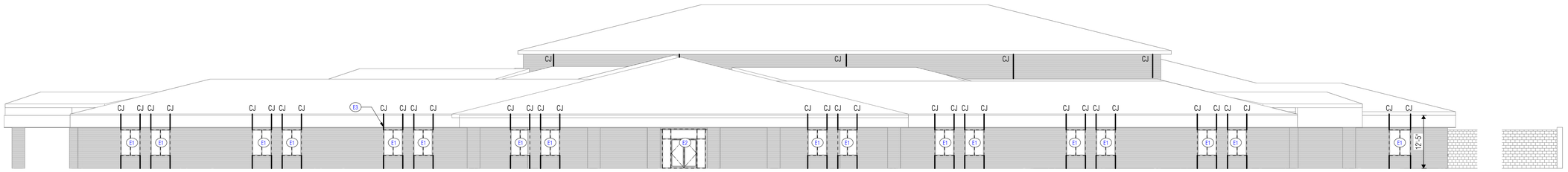
CCISD Priority Repairs - FAPE GOFE ROBE

FLOOR PLAN KEYED NOTES

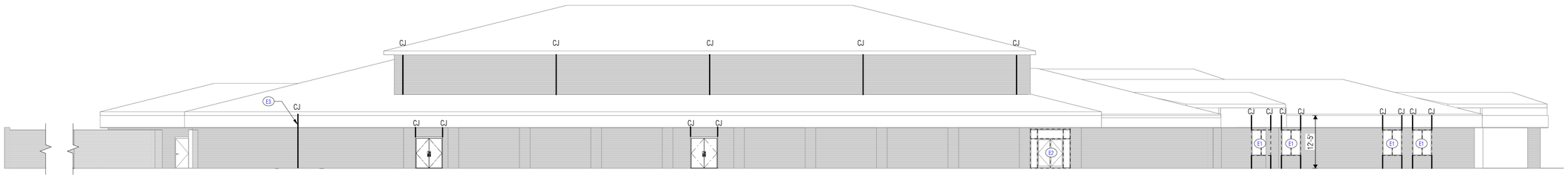
E1	REPLACE WETGLAZE SEALANTS ALONG ALL GLAZING AT STOREFRONT WINDOW.
E2	REPLACE WETGLAZE SEALANTS ALONG ALL GLAZING AT STOREFRONT DOOR SYSTEM. REPLACE DOOR SWEEPS.
E3	REMOVE AND REPLACE EXISTING BUILDING SEALANT AT ALL CONTROL JOINTS.

EXTERIOR ELEVATION NOTES

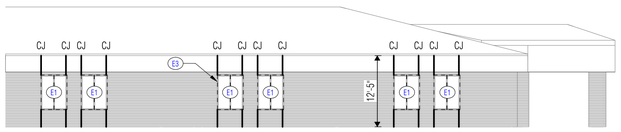
1. GC to reseal all windows and control joints in its exact location. GC to verify all control joint locations and heights



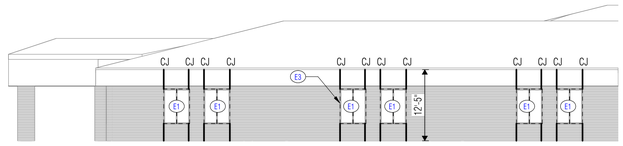
1 BUILDING ELEVATION - EAST
SCALE: 3/32" = 1'-0"



2 BUILDING ELEVATION - WEST
SCALE: 3/32" = 1'-0"



3 BUILDING ELEVATION - WING - EAST
SCALE: 3/32" = 1'-0"



4 BUILDING ELEVATION - WING - WEST
SCALE: 3/32" = 1'-0"

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

MELISSA K. FLEMMING
REGISTERED ARCHITECT
STATE OF TEXAS
26313

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - EXTERIOR ELEVATIONS

SHEET NO.
A13.02

DEMOLITION NOTES

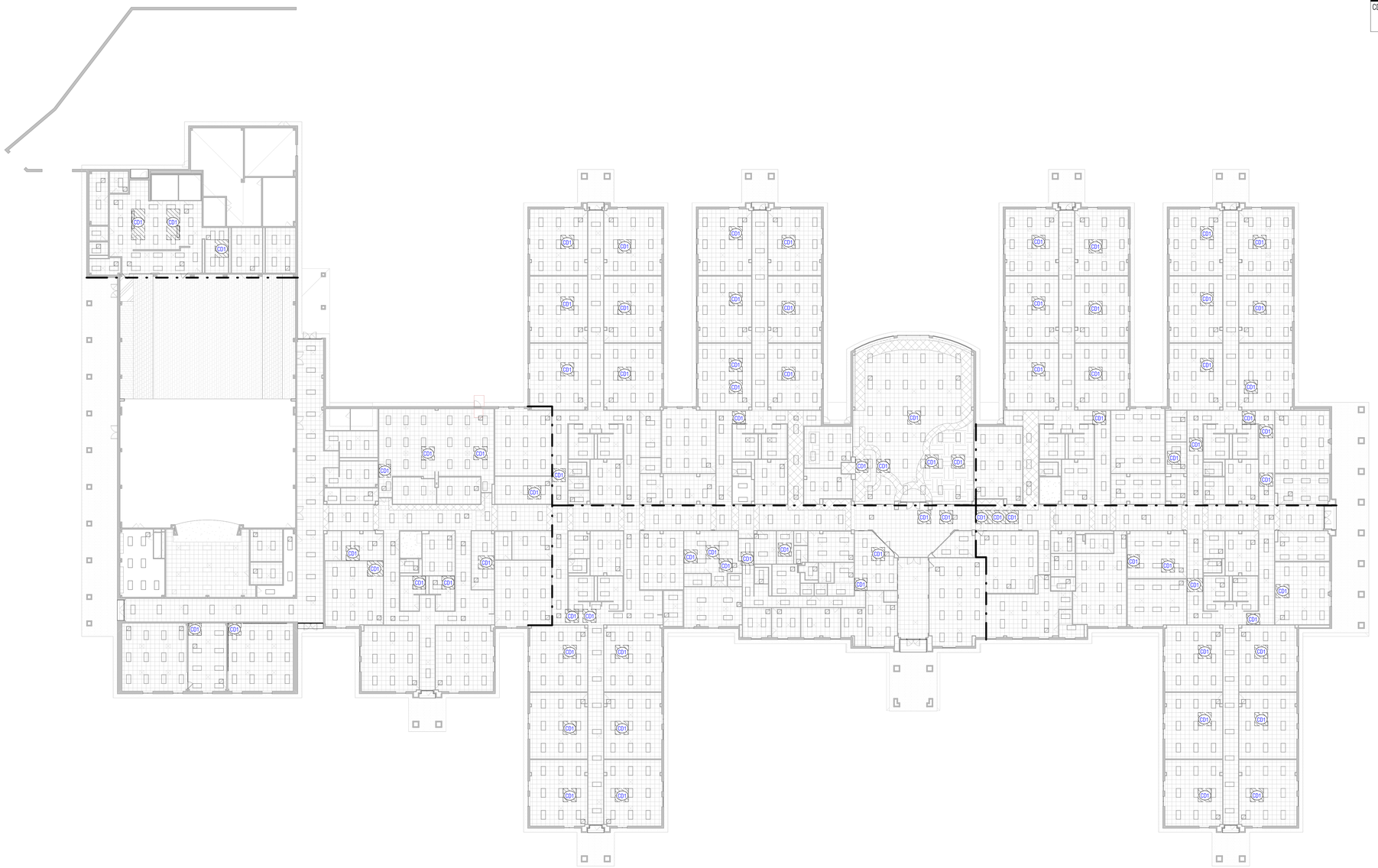
1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
2. Existing materials containing asbestos to be removed under separate contract prior to construction by Owner's asbestos abatement contractor.
3. Contact the Owner prior to the start of demolition to determine items to be salvaged and returned to Owner.
4. Protect items to remain from damage during demolition.
5. Repair or replace at no cost to the Owner any damages to the existing building and site as a result of construction activities.
6. Refer to electrical and mechanical demolition plan for additional information.
7. Patch/repair flooring to match existing at all removed or demolished doors, windows, walls, millwork, lockers and similar items.
8. GC to remove and protect existing furniture and metal shelving during construction. GC to install in exact location of scope of work to be completed.
9. Floor finish to not impede existing drain cleanout.
10. Remove and reinstall metal shelving at same location prior to floor removal/installation.
11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.
12. Remove and reinstall all room signage if vinyl wallcovering is being installed.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

CD1	REMOVE AND REPLACE CEILING TILES AND GRID AS INDICATED ON DEMO RCPS FOR MEP REPLACEMENT. REF. MEP FOR LOCATION OF MEP EQUIPMENT REPLACEMENT.



1 REFLECTED CEILING PLAN - DEMO
SCALE: 3/64" = 1'-0"

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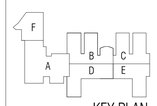
CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN



11/14/2024

ISSUED: 11/14/2024

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Proj. Arch.	
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PROJECT NO.

24-046.00

SHEET TITLE

FAPE - OVERALL REFLECTED CEILING PLAN - DEMO

SHEET NO.

A16.01

FINISH ACCESSORY, FURNITURE AND EQUIPMENT SCHEDULE

NOTE: ALL MATERIALS, PRODUCTS, SIZES, COLORS AND PATTERNS ARE THE BASIS OF DESIGN. REFERENCE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS MEETING THE DESIGN INTENT. SUBSTITUTIONS WILL BE CONSIDERED WHEN SUBMITTED IN COMPLIANCE WITH SECTION 01 62 00 – PRODUCT OPTIONS.

MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER INFO			SIZE	COMMENTS
			MANUFACTURER	SERIES/STYLE	COLOR/FINISH		
FLOOR FINISH ACCESSORY							
FFA-01	FLOOR TRANSITION	09 68 00	Johnsonite	Slimline Transition	Charcoal	--	CPT TO RF
FFA-02	FLOOR TRANSITION	09 68 00	Johnsonite	Slimline Transition	Charcoal	--	CPT TO CPT
FFA-03	FLOOR TRANSITION	09 68 00	Schluter	Reno-U	Satin Nickel Anodized Aluminum	--	CPT TO T
FFA-04	FLOOR TRANSITION	09 68 00	Pemco	2727 Series	Aluminum		T TO RF
G-01	GROUT - COLOR A	09 30 13	Mapei	--	Pearl Gray 5019	--	PORCELAIN FLOOR
SPECIALTY EQUIPMENT							
MB	Markerboard - Premanufactured	10 11 16	Claridge	TBD	White	TBD	
WALL FINISH ACCESSORY							
CG-01	CORNER GUARD	10 26 13	CSI	SM20	Fog		
CG-02	CORNER GUARD	10 26 13	CSI	SM20			
G-02	GROUT - COLOR B	09 30 13	Mapei	--	Pearl Gray 5019	--	WALL TILE
WFA-01	Tile Edge/Corner Trim - Metal	09 30 00	Schluter	Quadec	Satin Nickel Anodized Aluminum	--	TOP & CORNER TRIM

DOOR HARDWARE SCHEDULE

DOOR NUMBER	DOOR TYPE	FRAME TYPE	HDWR SET	REMARKS
UNIT A				
04	EX-AL	EX-AL		TWO DOG DOWN CYLINDER REPLACEMENTS
06	EX-HM	EX-HM		TWO DOG DOWN CYLINDER REPLACEMENTS + MULLION CYLINDER REPLACEMENT
07	EX-HM	EX-HM		TWO DOG DOWN CYLINDER REPLACEMENTS + MULLION CYLINDER REPLACEMENT
10	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
11	EX-HM	EX-HM		ONE DOG DOWN CYLINDER REPLACEMENT
23	EX-HM	EX-HM		MULLION CYLINDER REPLACEMENT
24	EX-HM	EX-HM		MULLION CYLINDER REPLACEMENT
25	EX-HM	EX-HM		MULLION CYLINDER REPLACEMENT
R01	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT B				
13	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
14	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
15	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
R02	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
R03	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT C				
16	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
17	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
18	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
R04	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
R05	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT D				
01	EX-AL	EX-AL		TWO DOG DOWN CYLINDER REPLACEMENTS
22	EX-HM	EX-HM		ONE DOG DOWN CYLINDER REPLACEMENT + MULLION CYLINDER REPLACEMENT
R06	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT E				
19	EX-AL	EX-AL		TWO DOG DOWN CYLINDER REPLACEMENTS
R10	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)

DOOR SCHEDULE NOTES

1. At Doors with a Door Type or Frame Type designation "EX", the door or door frame is existing to remain.
2. Refer to Hardware Schedule for additional information regarding hardware.

MATERIAL FINISH SCHEDULE

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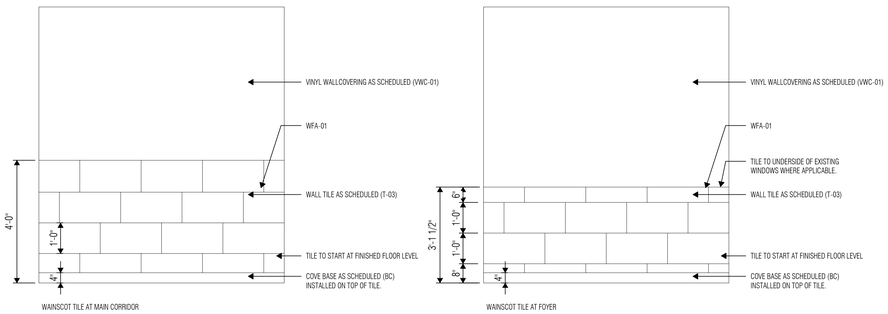
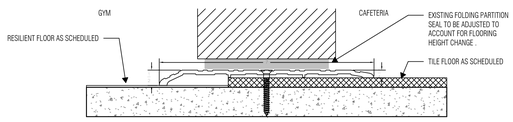
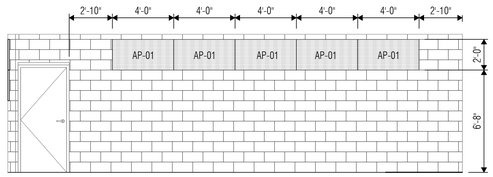
MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER INFO				COMMENTS
			MANUFACTURER	SERIES/STYLE	COLOR/FINISH	SIZE	
BASE FINISH							
BC-01	Base, Rubber Coved	09 65 00	Johnsonite	6" Cove	Charcoal	6"	
BC-02	Base, Rubber Coved Black	09 65 00	Johnsonite	6" Cove	Black	6"	
CEILING FINISH							
ACT-01	Acoustic Ceiling Tile (24X24)	09 51 00	Armstrong	Fine Fissured Humiguard	White	24" x 24"	
FLOOR FINISH							
CPT-01	Carpet - Broadloom Field	09 68 00	Tarkett	Paradigm	Arabian	Roll	
CPT-02	Carpet - Broadloom Accent	09 68 00	Tarkett	Paradigm	Dapple	Roll	
CPT-03	Carpet - Walk-Off	09 68 13	Tarkett	Assertive Action	Steelwork	Roll	
CPT-04	Carpet - Broadloom Blue Accent	09 68 00	Tarkett	Plexus Color IV	Ocean Storm	Roll	
RF-01	Resilient Floor - Field	09 65 44	Forbo	Marmoleum Modular	Pluto	20" x 20"	
RF-02	Resilient Floor - Gym	09 65 44	Forbo	Marmoleum MCT	Eiger	13" x 13"	
RF-03	Resilient Floor - Red Striping	09 65 44	Forbo	Marmoleum MCT	Red	--	
RF-04	Resilient Floor - Blue Striping	09 65 44	Forbo	Marmoleum MCT	Blue	--	
T-01	Tile - Porcelain (T-01)	09 30 00	Daltile	Portfolio	White PF02	12" x 24"	
T-02	Tile - Porcelain (T-02)	09 30 00	Daltile	Portfolio	Ash Grey PF05	12" x 24"	
WD	Existing Wood Floor	09 64 29	TBD	TBD	TBD	--	Refinish Existing Wood Floors.
MILLWORK & ARCHITECTURAL FINISHES							
PL-01	Plastic Laminate - Signage 01	12 32 16	Wilsonart	TBD	TBD	--	
PL-02	Plastic Laminate - Signage 02	12 32 16	Wilsonart	TBD	TBD	--	
WALL FINISH							
AP-01	Acoustic Wall Panel, Fabric Wrapped - Field	09 84 13	Guilford of Maine	FR 701 2100	Baltic Blue	TBD	Music Room Walls
PT-01	Paint - Field	09 91 00	Sherwin Williams	--	TBD	--	
PT-02	Paint - Accent	09 91 00	Sherwin Williams	--	TBD	--	
PT-03	Paint - Accent 02	09 91 00	Sherwin Williams	--	TBD	--	CONTRACTOR TO VERIFY AND MATCH EXISTING COLOR.
PT-04	Paint - Accent 03	09 91 00	Sherwin Williams	--	TBD	--	HOLLOW METAL DOOR FRAME.
T-03	Tile - Porcelain	09 30 00	Crossville	Shades 2.0	Frost UPS SHD41	12" x 24"	
VWC-01	Vinyl Wallcovering - Field	09 72 16	Koroseal	Linsey	Linum SE21-09	--	
VWC-02	Vinyl Wallcovering - Accent 01	09 72 16	Koroseal	Desert Sand	Washed Denim	--	
VWC-03	Vinyl Wallcovering - Accent 02	09 72 16	Koroseal	Linsey	Angora	--	Vestibule and Entry



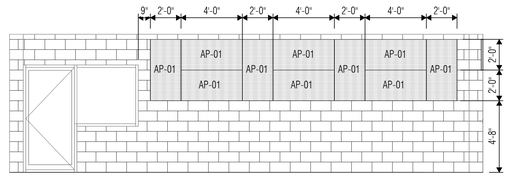
1 WAINSCOT TILE
SCALE: 1/2" = 1'-0"



2 TRANSITION DETAIL AT GYM & CAFETERIA
SCALE: 6" = 1'-0"



3 MUSIC 256 - NORTH
SCALE: 1/4" = 1'-0"



4 MUSIC 256 - WEST
SCALE: 1/4" = 1'-0"

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

REGISTERED ARCHITECT
MELINDA E. FLEMING
STATE OF TEXAS

11/14/2024

ISSUED: 11/14/2024

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Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - MATERIAL FINISH & DOOR SCHEDULES

SHEET NO.

A19.01

GENERAL NOTE: CONTRACTOR TO FLUSH HYDRONIC PIPING WHERE AHU'S ARE BEING REPLACED.

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
STM	STEAM
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

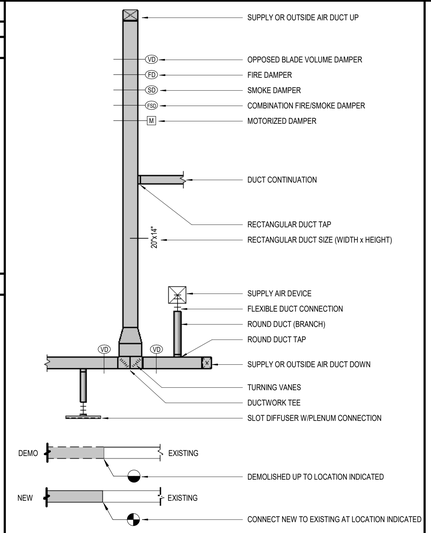
Y

Y	YARD HYDRANT

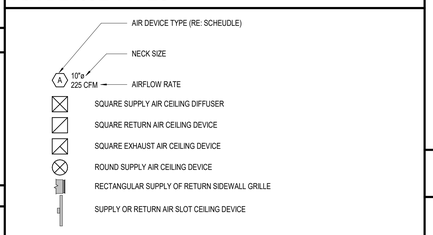
Z

Z	ZONE

DUCTWORK



AIR DEVICE TYPES



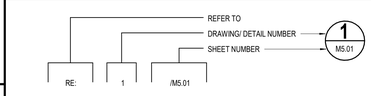
WALL MOUNTED SENSOR TYPES

T	THERMOSTAT	CO	CARBON MONOXIDE SENSOR
H	HUMIDISTAT	N	NITROGEN DIOXIDE SENSOR
C	CARBON DIOXIDE SENSOR	S	ON/OFF SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE	HWR	HOT WATER RETURN
CHS	CHILLED WATER SUPPLY	CWS	CONDENSER WATER SUPPLY
CHR	CHILLED WATER RETURN	CWR	CONDENSER WATER RETURN
HWS	HOT WATER SUPPLY	REF	REFRIGERANT PIPING SIZED BY MFR.

DRAWING/DETAIL REFERENCE KEY



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 CUTSHEETS 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. PROVIDE INSULATED ACCESS DOORS FOR DUCTWORK DOWNSTREAM OF AIR HANDLING UNITS AT EVERY 20'-0" TO FACILITATE DUCT CLEANING. PROVIDE ACCESS DOORS WITHIN 5'-0" OF EACH ELBOW.
18. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
19. ALL CEILING MOUNTED AND WALL MOUNTED AIR DEVICE FINISHES SHALL MATCH ADJACENT ARCHITECTURAL SURFACE. CONTRACTOR SHALL COORDINATE COLOR WITH ARCHITECT.
20. NO PIPE HANGERS SHALL BE SPACED MORE THAN 10'-0" O.C. COMPLY WITH PIPE SPACING AS SPECIFIED IN THE PIPING SUPPORT SPECIFICATIONS.
21. ALL PIPING LOCATED INSIDE BUILDING SHALL BE SUPPORTED FROM THE STRUCTURE WITH SADDLE OR TRAPEZE HANGERS WITH ADJUSTABLE CLEVIS OR THREADED RODS.
22. 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.
23. MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR ALL CONDENSATE DRAIN PIPES CONNECTING TO A SINK DRAIN TAIL PIECE.
24. 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.

ROOF MOUNTED EQUIPMENT ANCHORAGE REQUIREMENTS

1. ALL ROOF MOUNTED EQUIPMENT CURBS, ROOF MOUNTED EQUIPMENT, EQUIPMENT TIE DOWNS, AND CONNECTIONS OF ALL EQUIPMENT TO BUILDING STRUCTURE FOR WIND LOADING ARE TO BE DESIGNED AND ENGINEERED BY A REGISTERED SPECIALTY ENGINEER RETAINED BY THE CONTRACTOR. DESIGN CRITERIA FOR WIND LOADING SHALL BE AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND PER LOCAL CODES FOR THE PROJECT LOCATION AND BUILDING CATEGORY. SIGNED AND SEALED DRAWINGS AND CALCULATIONS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE SUBMITTAL SHALL INCLUDE ATTACHMENT DETAILS OF THE EQUIPMENT TO THE STRUCTURE WITH DESIGN LOADS, LOCATIONS, AND METHODS OF ATTACHMENT. THE CONTRACTOR SHALL ALSO SUBMIT THE INFORMATION TO THE STRUCTURAL ENGINEER TO COORDINATE THE DESIGN OF THE PRIMARY STRUCTURAL FRAME WITH THE FINAL LOADS AND ATTACHMENTS SUBMITTED.

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

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL SYMBOL LEGEND

SHEET NO.
M10.00

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MECHANICAL KEYED NOTES

M0.10 REMOVE EXISTING KITCHEN HOOD AS SHOWN ON PLANS. REMOVE ANY HANGERS, SUPPORTS, ACCESSORIES AND ELECTRICAL COMPONENTS THAT WILL NOT BE REUSED. COORDINATE DEMOLITION OF KITCHEN HOODS WITH THE INTERIOR FINISHES AS SHOWN ON THE ARCHITECTURAL SHEETS. ENSURE TIMING OF DEMOLITION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES.

M0.13 REMOVE EXISTING "VENT-A-KIN" EXHAUST HOOD AND FAN ASSEMBLY.

GENERAL NOTE:
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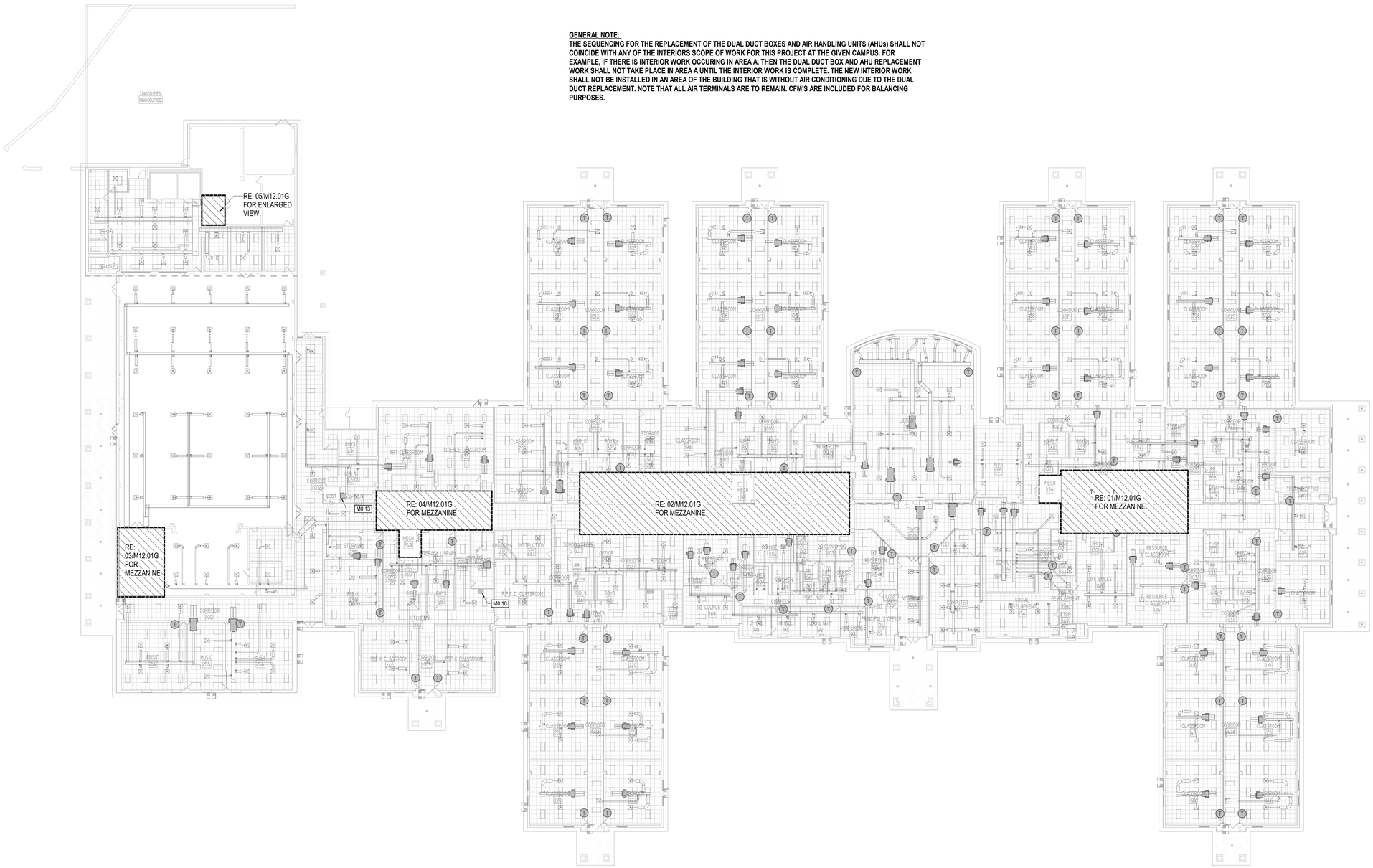

1 M12.01 **DEMO COMPOSITE MECHANICAL PLAN - LEVEL ONE**
1" = 20'-0"

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Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO COMPOSITE MECHANICAL PLAN

SHEET NO.
M12.01

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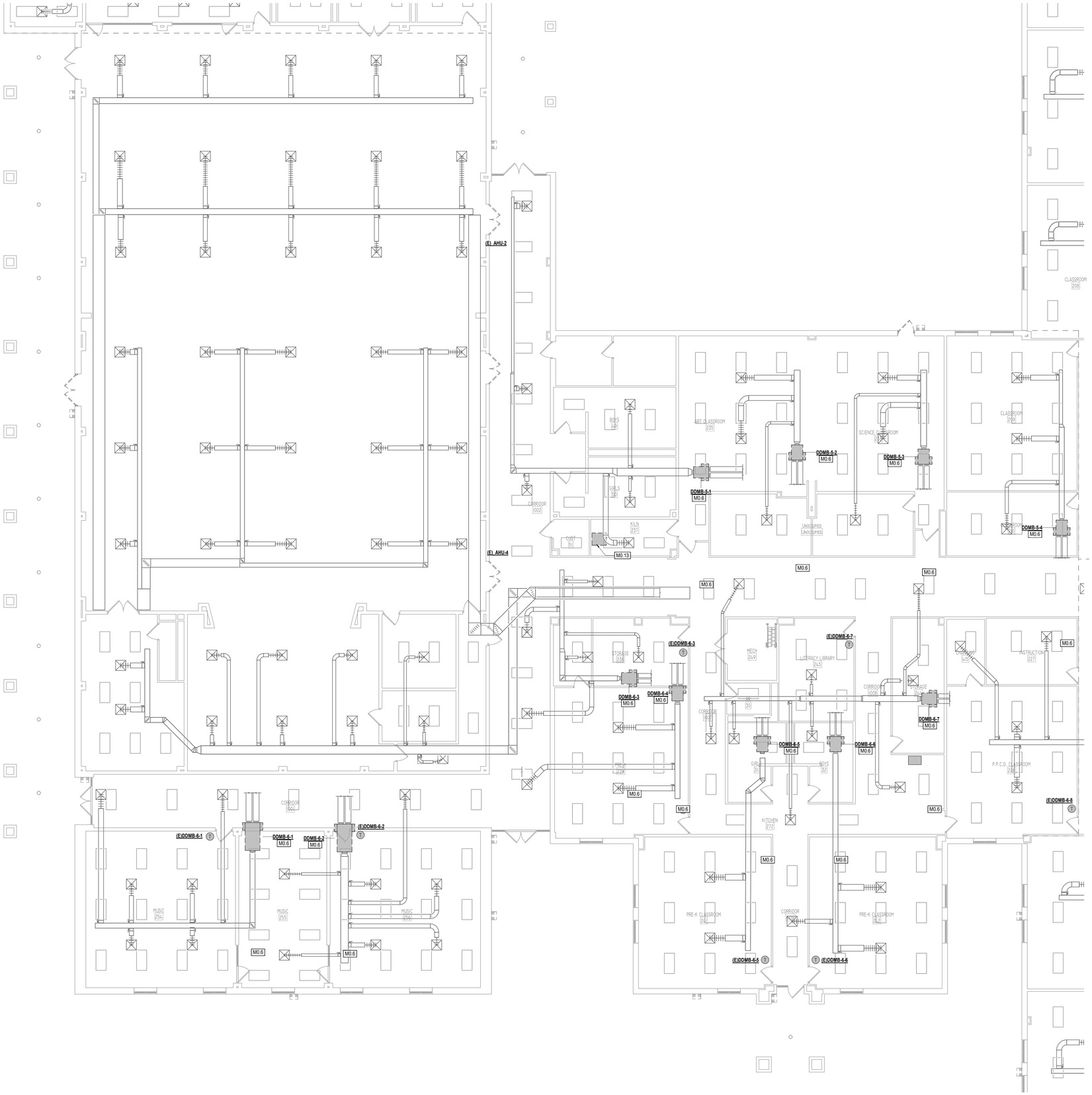

MECHANICAL KEYED NOTES

M0.6 REMOVE EXISTING DUAL DUCT MIXING BOXES BUILDING WIDE AT THE APPROXIMATE LOCATIONS SHOWN. ALL ASSOCIATED DUCT CONNECTIONS AND ELECTRICAL COMPONENTS THAT WILL NOT BE REUSED SHALL BE REMOVED. COORDINATE DEMOLITION OF DUAL DUCT MIXING BOXES WITH THE INTERIOR FINISHES AS SHOWN ON ARCHITECTURAL SHEETS. ENSURE TIMING OF DEMOLITION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES.

M0.13 REMOVE EXISTING "VENT-A-KIN" EXHAUST HOOD AND FAN ASSEMBLY.

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1 M12.01A **MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT A**
1/8" = 1'-0"

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PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO MECHANICAL PLAN - AREA A

SHEET NO.
M12.01A

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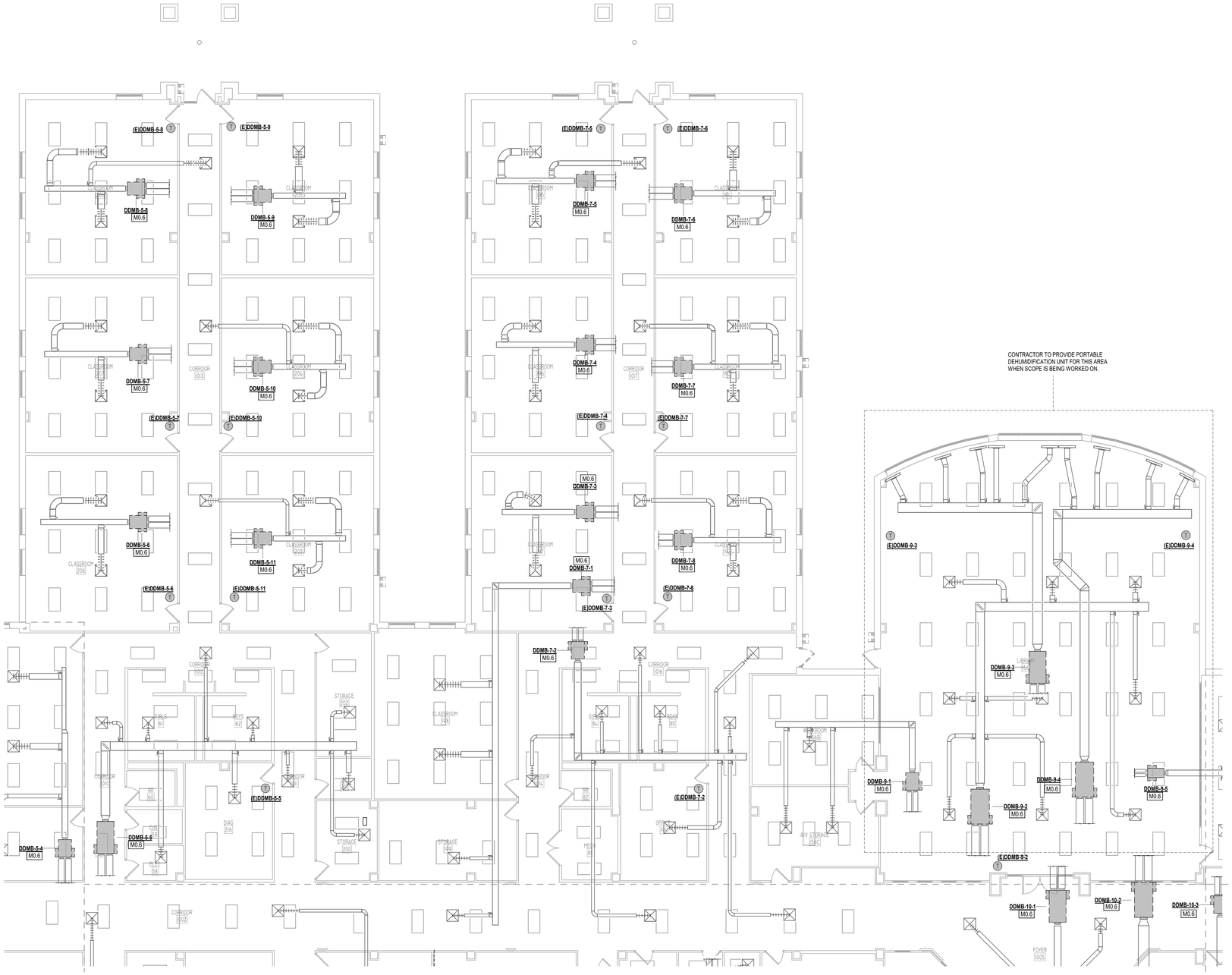

1 M12.01B **MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT B**
1/8" = 1'-0"

MECHANICAL KEYED NOTES

M0.6 REMOVE EXISTING DUAL DUCT MIXING BOXES BUILDING WIDE AT THE APPROXIMATE LOCATIONS SHOWN. ALL ASSOCIATED DUCT CONNECTIONS AND ELECTRICAL COMPONENTS THAT WILL NOT BE REUSED SHALL BE REMOVED. COORDINATE DEMOLITION OF DUAL DUCT MIXING BOXES WITH THE INTERIOR FINISHES AS SHOWN ON ARCHITECTURAL SHEETS. ENSURE TIMING OF DEMOLITION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES.

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PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO MECHANICAL PLAN - AREA B

SHEET NO.
M12.01B

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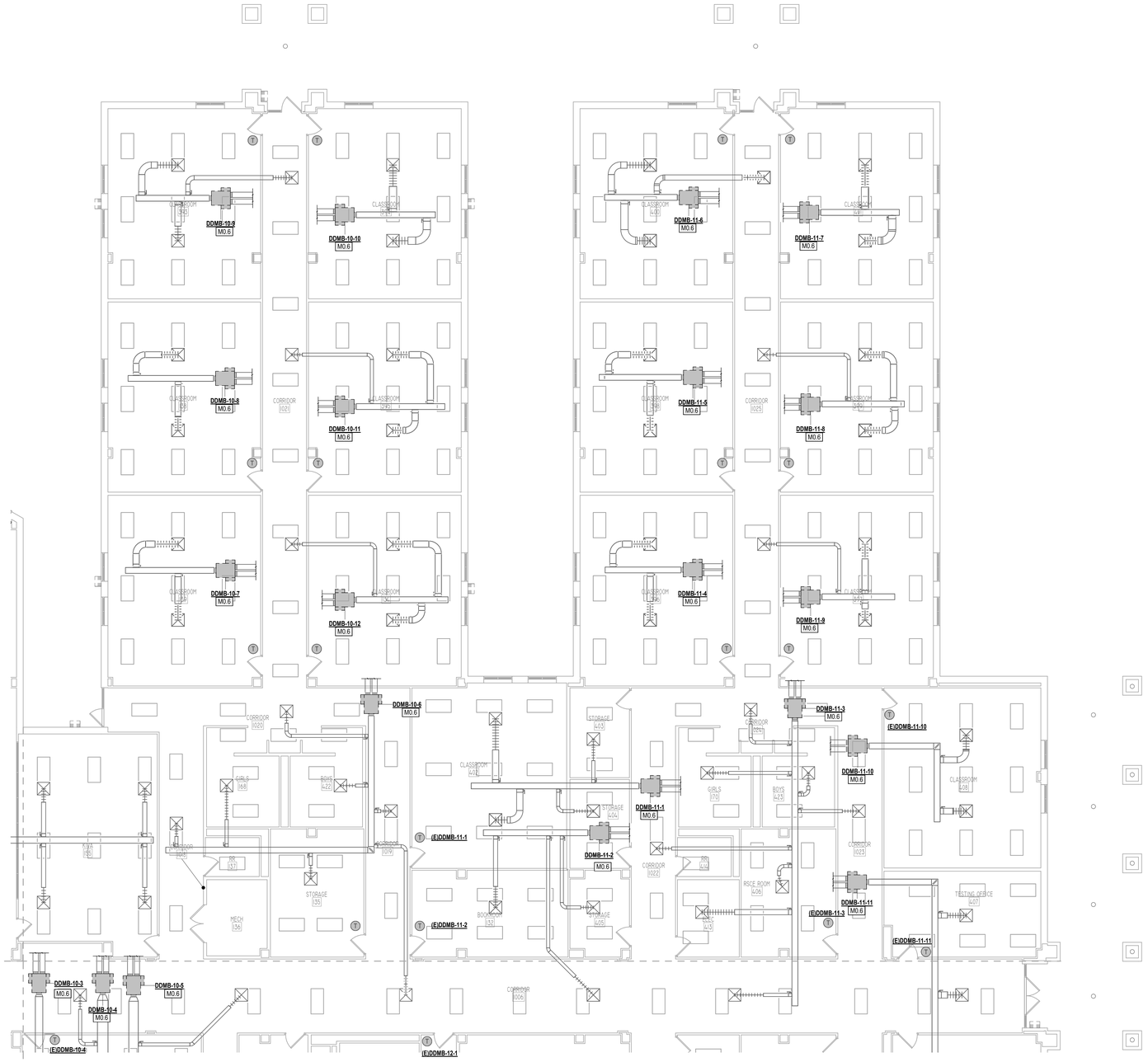

1 M12.01C **MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT C**
1/8" = 1'-0"

MECHANICAL KEYED NOTES

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SHEET TITLE
FAPE - DEMO MECHANICAL PLAN - AREA C

SHEET NO.
M12.01C

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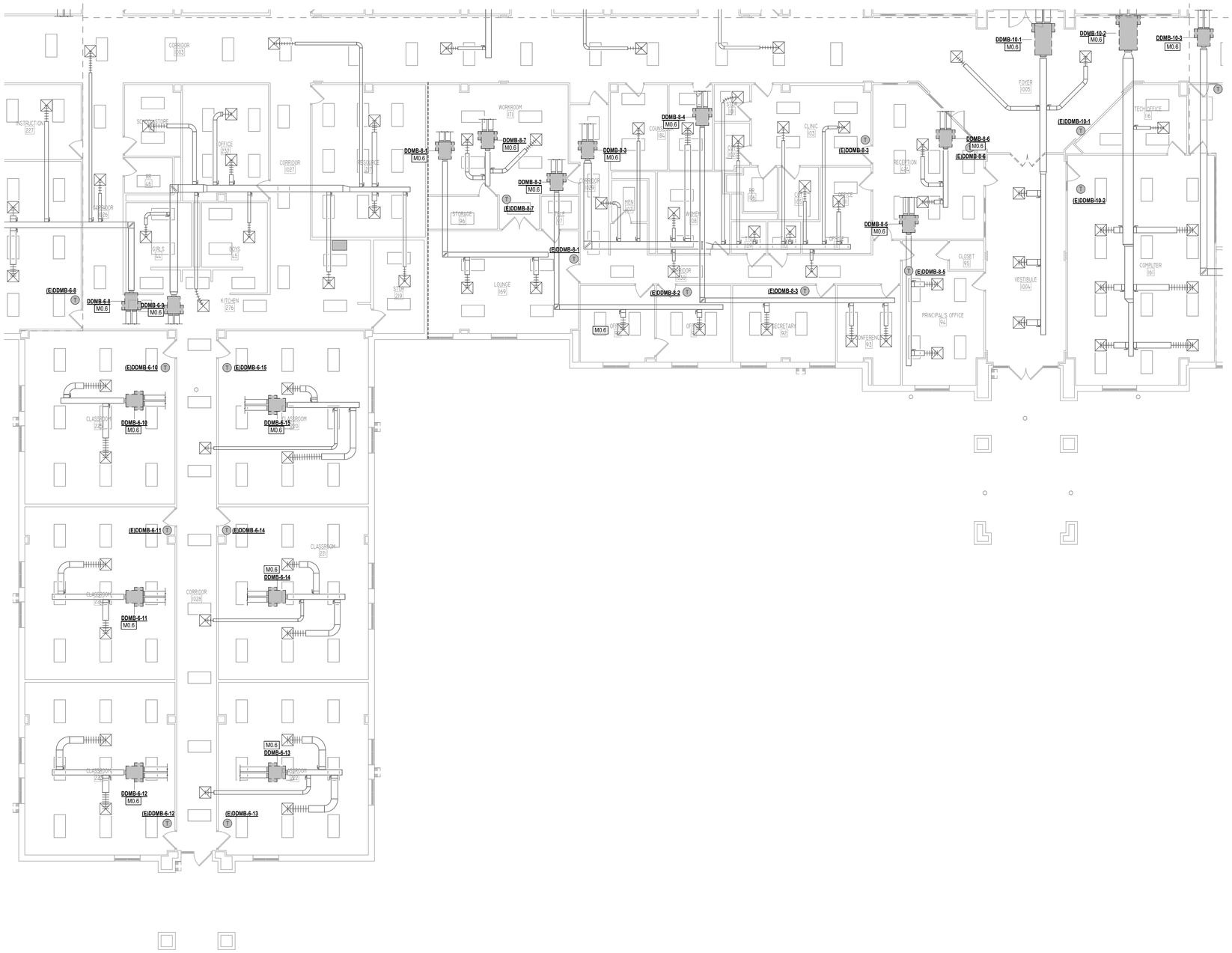

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1 M12.01D MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT D

1/8" = 1'-0"

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CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO MECHANICAL PLAN - AREA D

SHEET NO.
M12.01D

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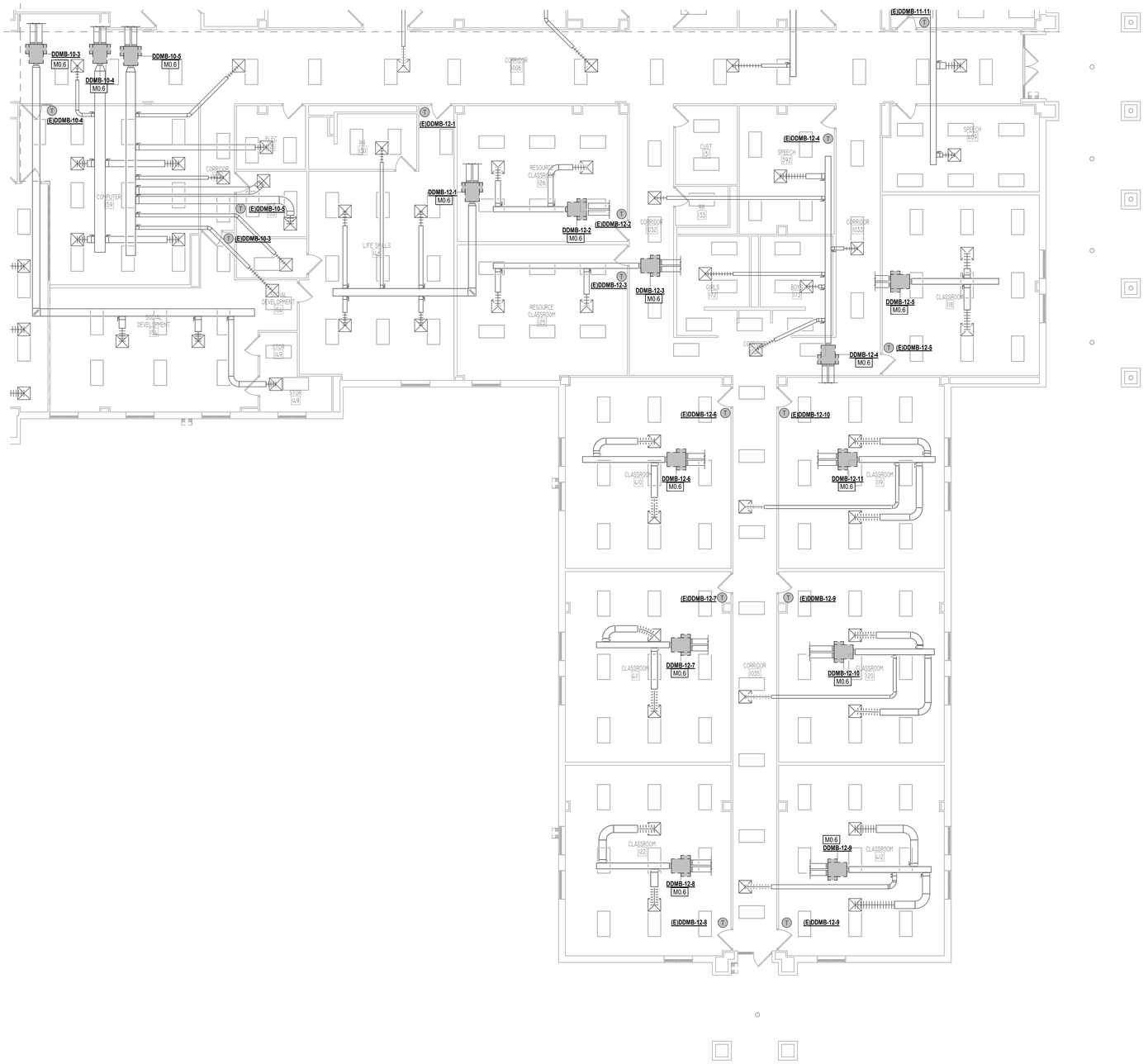
TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TDLB/IMS TN/JL LG/SS



1 M12.01E **MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT E**
1/8" = 1'-0"

MECHANICAL KEYED NOTES

M0.6 REMOVE EXISTING DUAL DUCT MIXING BOXES BUILDING WIDE AT THE APPROXIMATE LOCATIONS SHOWN. ALL ASSOCIATED DUCT CONNECTIONS AND ELECTRICAL COMPONENTS THAT WILL NOT BE REUSED SHALL BE REMOVED. COORDINATE DEMOLITION OF DUAL DUCT MIXING BOXES WITH THE INTERIOR FINISHES AS SHOWN ON ARCHITECTURAL SHEETS. ENSURE TIMING OF DEMOLITION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES.

GENERAL NOTE:
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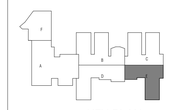
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

ISSUED: 11/14/2024

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Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO MECHANICAL PLAN - AREA E

SHEET NO.
M12.01E

CCISD Priority Repairs - FAPE GOFE ROBE

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DBR Project # 240244
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GENERAL NOTE:
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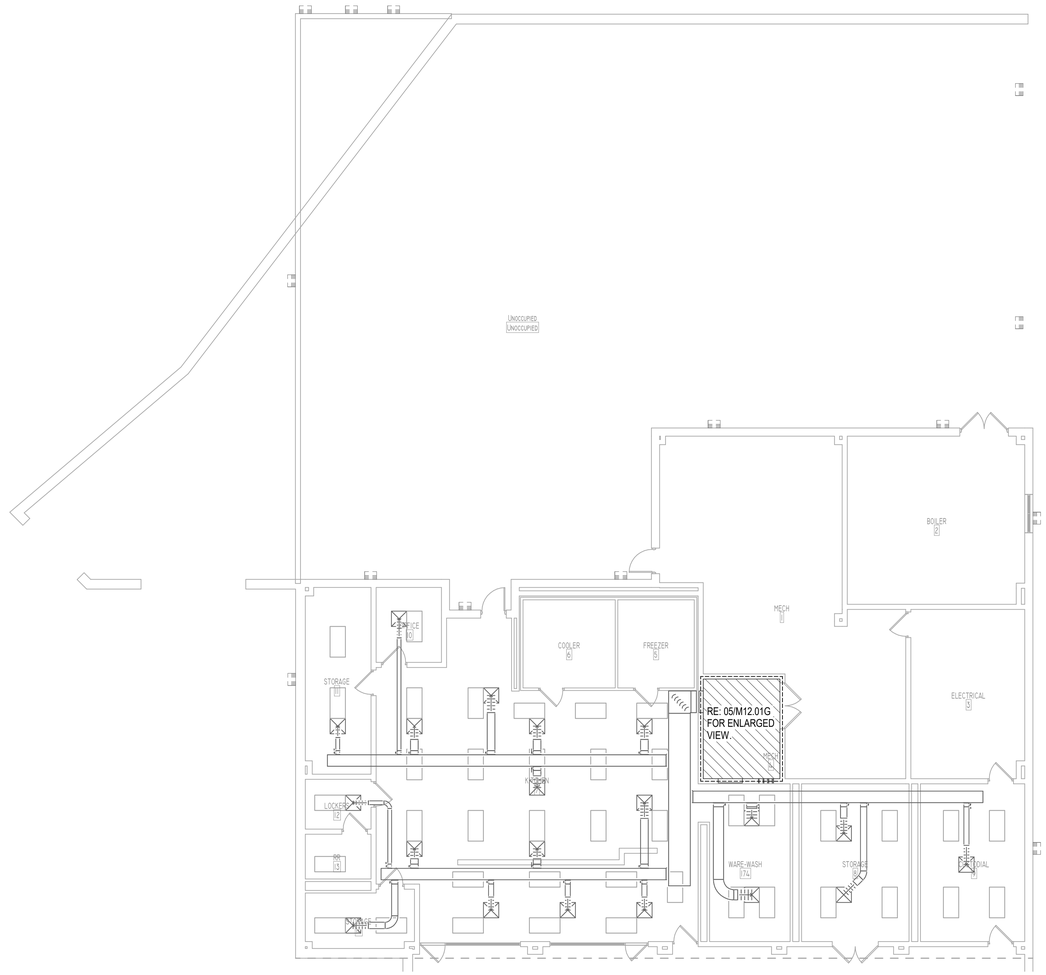

1 M12.01F **MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT F**
1/8" = 1'-0"

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CCISD PROJECT NO:
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CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
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PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

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Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO MECHANICAL PLAN - AREA F

SHEET NO.
M12.01F

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DBR Project # 240244
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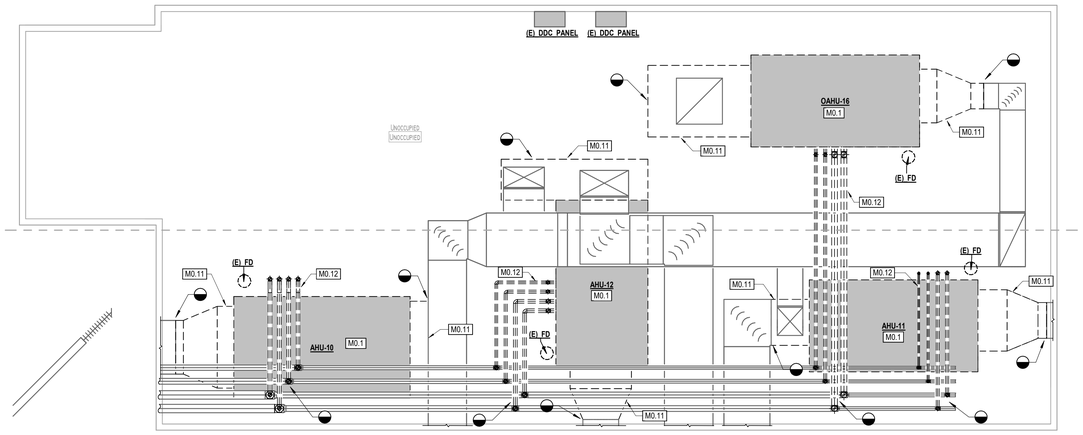
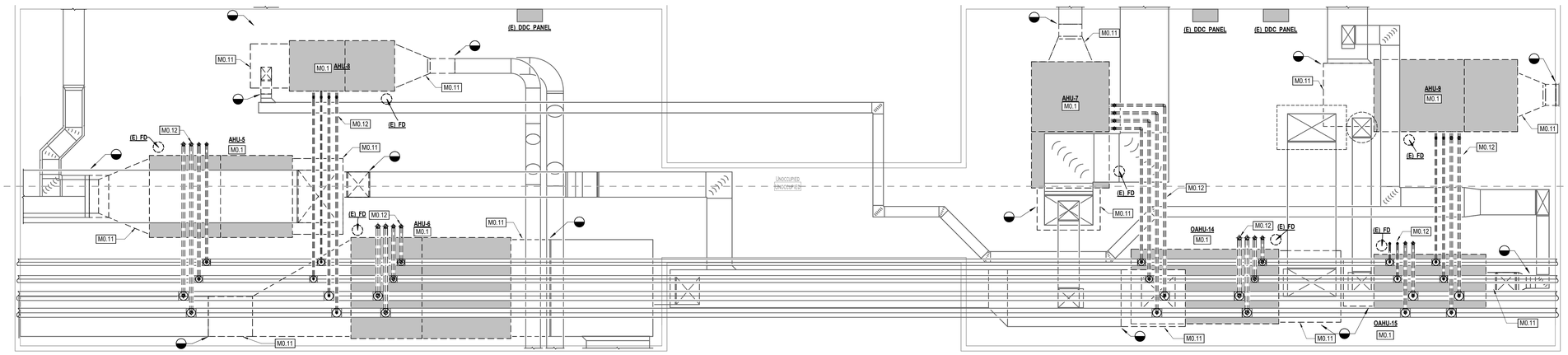


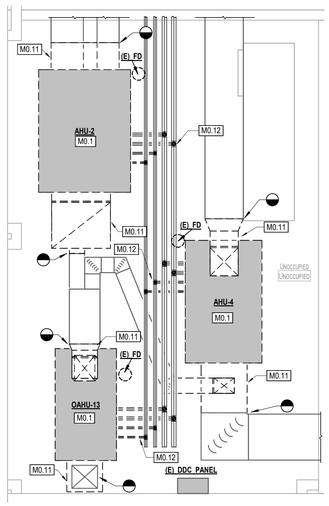
1 M12.01G DEMO MECHANICAL PLAN - MEZZANINE PLAN - AREA C

1/4" = 1'-0"



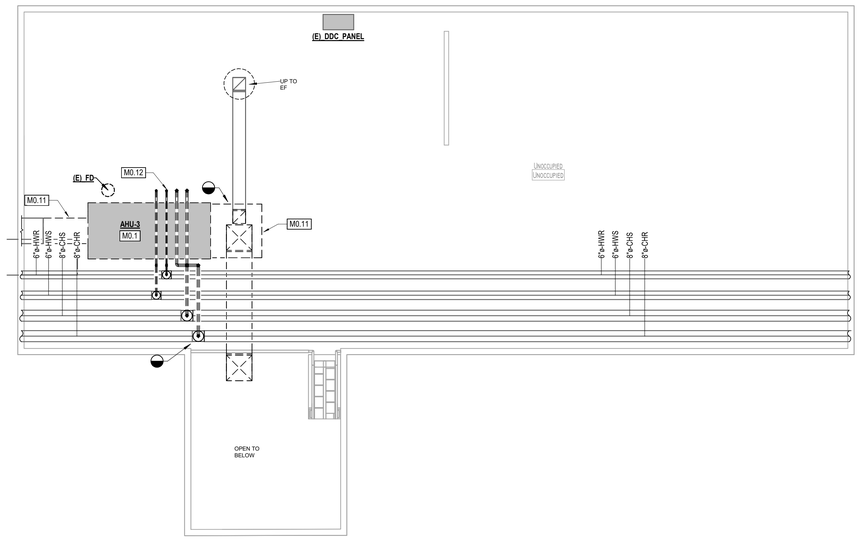
2 M12.01G DEMO MECHANICAL PLAN - MEZZANINE PLAN - AREA B

1/4" = 1'-0"



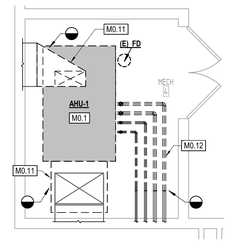
3 M12.01G DEMO MECHANICAL PLAN - MEZZANINE PLAN - AREA A AT GYM

1/4" = 1'-0"



4 M12.01G DEMO MECHANICAL PLAN - MEZZANINE PLAN - AREA A

1/4" = 1'-0"



5 M12.01G MECHANICAL PLAN - LEVEL ONE - DEMO - AREA F

1/4" = 1'-0"

MECHANICAL KEYED NOTES

M0.1 REMOVE EXISTING AHU AS SHOWN ON PLANS. ALL ASSOCIATED CONTROLS, ELECTRICAL, VALVES, HANGERS, SUPPORTS, AND ACCESSORIES THAT WILL NOT BE REUSED SHALL BE REMOVED.

M0.11 REMOVE EXISTING DUCTWORK AS NECESSARY TO CONNECT TO NEW AHU. REMOVE ALL HANGERS, INSULATION, ACCESSORIES THAT WILL NOT BE REUSED.

M0.12 REMOVE EXISTING PIPING AS NECESSARY TO CONNECT TO NEW AHU. REMOVE ALL HANGERS, INSULATION, ACCESSORIES THAT WILL NOT BE REUSED.

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HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

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Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO MECHANICAL PLAN - ENLARGED VIEWS

SHEET NO.
M12.01G

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DBR Project # 240244
EK RM/TD/LB/MS TN/JL LG/SS

MECHANICAL KEYED NOTES

M4.1 APPROXIMATE LOCATION OF OFCI TEMPORARY AC UNIT. UNIT SHALL BE 35 TON UNIT. CONTRACTOR TO PROVIDE FLEXIBLE CONNECTION AND MEANS TO SEAL THE BUILDING ONCE CONNECTION TO SPACE IS MADE.

M4.16 INSTALL NEW GUARDIAN III ANSUL SYSTEM WITHIN EXISTING HOOD SYSTEM AT THE APPROXIMATE LOCATION SHOWN. PROVIDE NEW GUARDIAN 3 HOOD AT THE APPROXIMATE LOCATION SHOWN. INSTALL HANGERS, SUPPORTS, CONDUIT AS NECESSARY. COORDINATE INSTALLATION WITH ELECTRICAL AND INTERIOR FINISHES AS SHOWN ON PLANS. ENSURE TIMING OF INSTALLATION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES.

M4.18 PROVIDE AND INSTALL "VENT-A-KIN" EXHAUST HOOD AND FAN ASSEMBLY. LOCATE
ROUTE 6' FLEXIBLE DUCT FROM OUTLET OF HOOD UP TO CEILING. ROUTE 6'# RIGD
JUST BELOW CEILING UP THROUGH ROOF. TERMINATE DUCT ABOVE ROOF MODEL RFC-7. ROOF CAP SHALL BE CONSTRUCTED OF ALUMINUM AND SHALL
DUCT SHALL BE ROUTED WITHIN FIRE-RATED ENCLOSURE FROM CEILING PENETRATION TO ROOF PENETRATION. RE: DETAIL 13/M15.02

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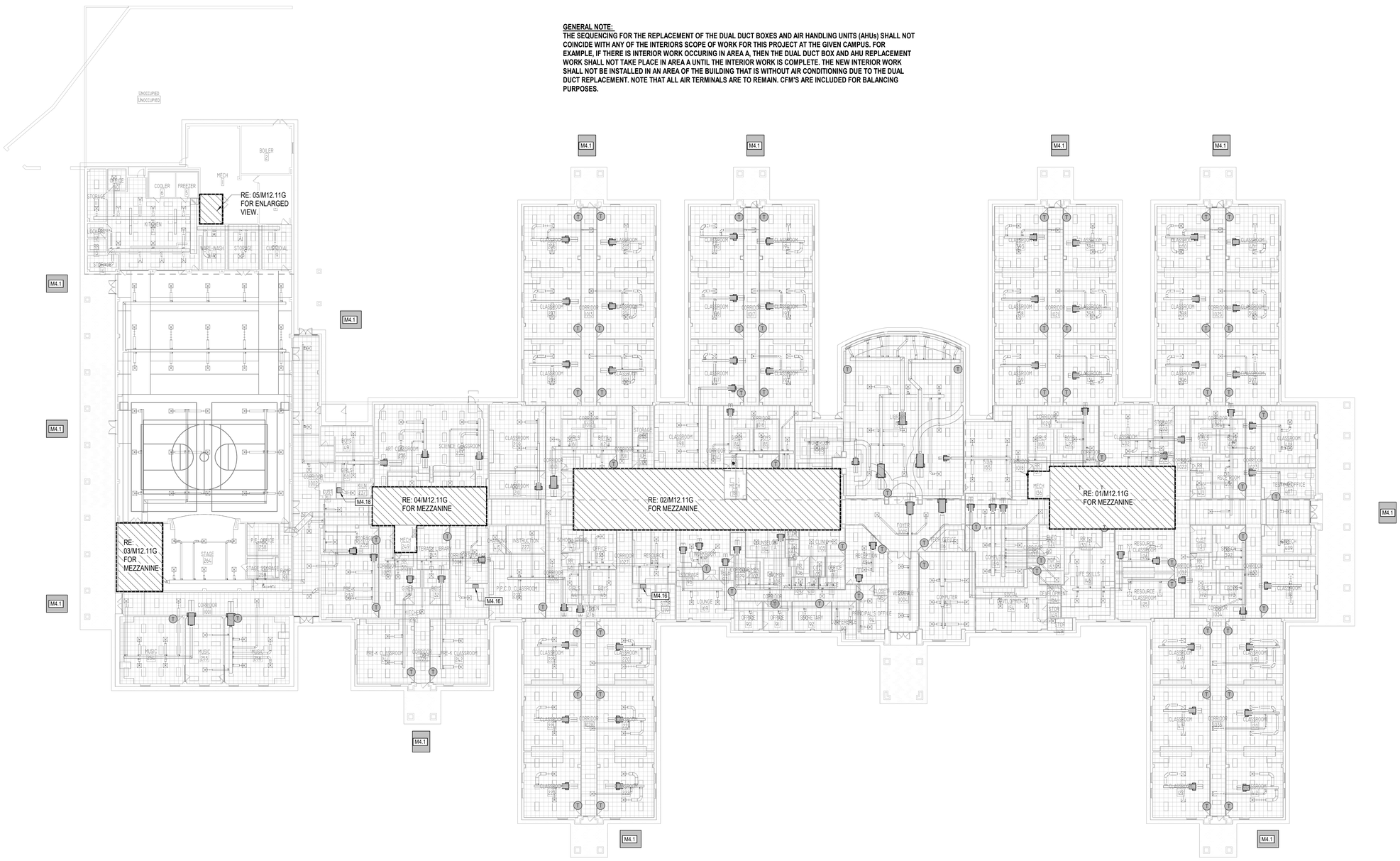

1 M12.11 **COMPOSITE MECHANICAL PLAN - LEVEL ONE**
1" = 20'-0"

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HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - COMPOSITE MECHANICAL PLAN

SHEET NO.
M12.11

CCISD Priority Repairs - FAPE GOFE ROBE

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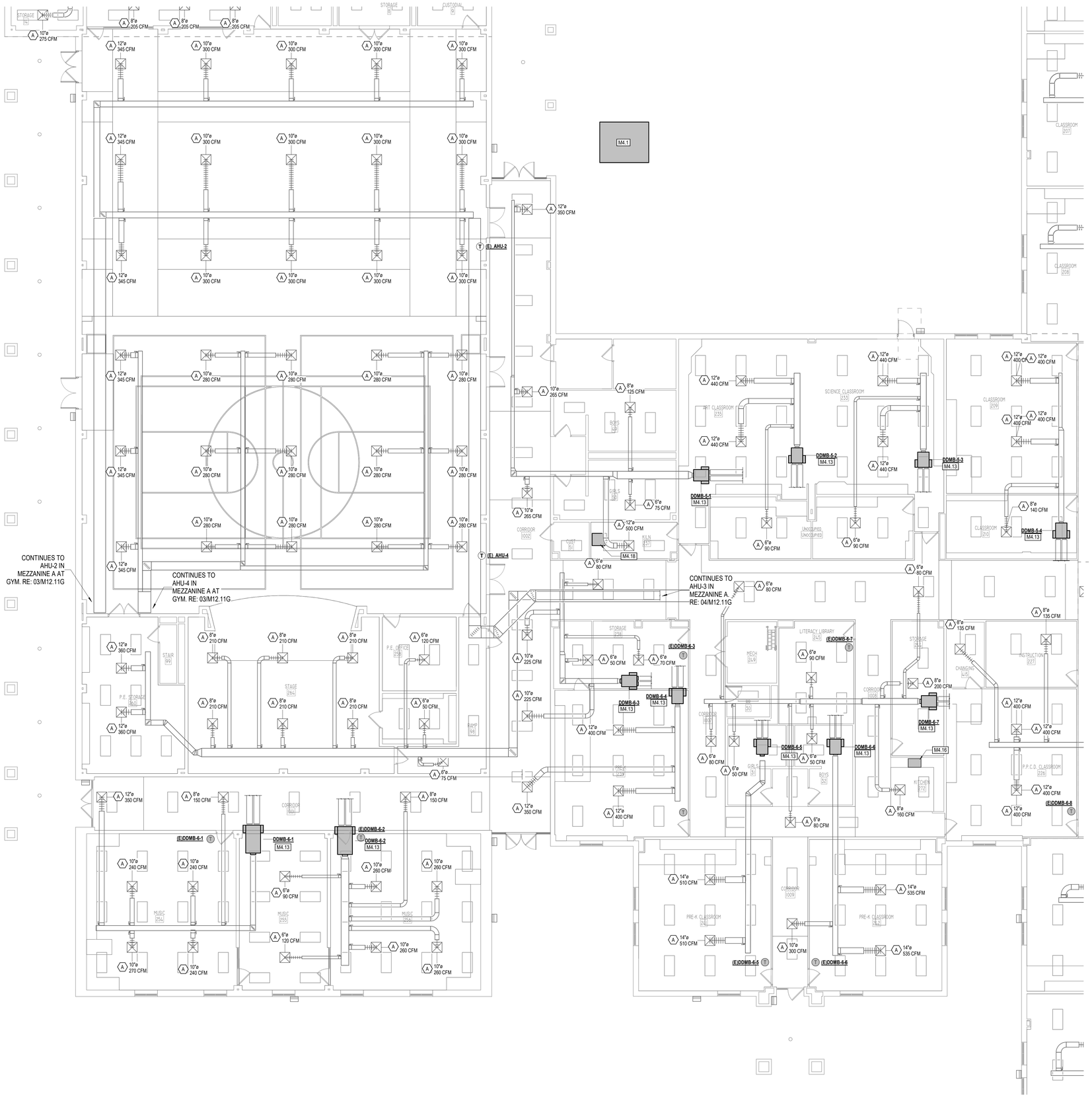
EK | RM/TD | LB/MS | TN/JL | LG/SS



1 M12.11A **MECHANICAL PLAN - LEVEL ONE - UNIT A**
1/8" = 1'-0"

MECHANICAL KEYED NOTES

M4.1 APPROXIMATE LOCATION OF OFCI TEMPORARY AC UNIT. UNIT SHALL BE 35 TON UNIT. CONTRACTOR TO PROVIDE FLEXIBLE CONNECTION AND MEANS TO SEAL THE BUILDING ONCE CONNECTION TO SPACE IS MADE.

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HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

CCISD Priority Repairs - FAPE GOFE ROBE

WILLIAM MEISTER 101184 LICENSED PROFESSIONAL ENGINEER 11/14/24

ISSUED: 11/14/2024

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Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL PLAN - AREA A

SHEET NO.
M12.11A

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MECHANICAL KEYED NOTES

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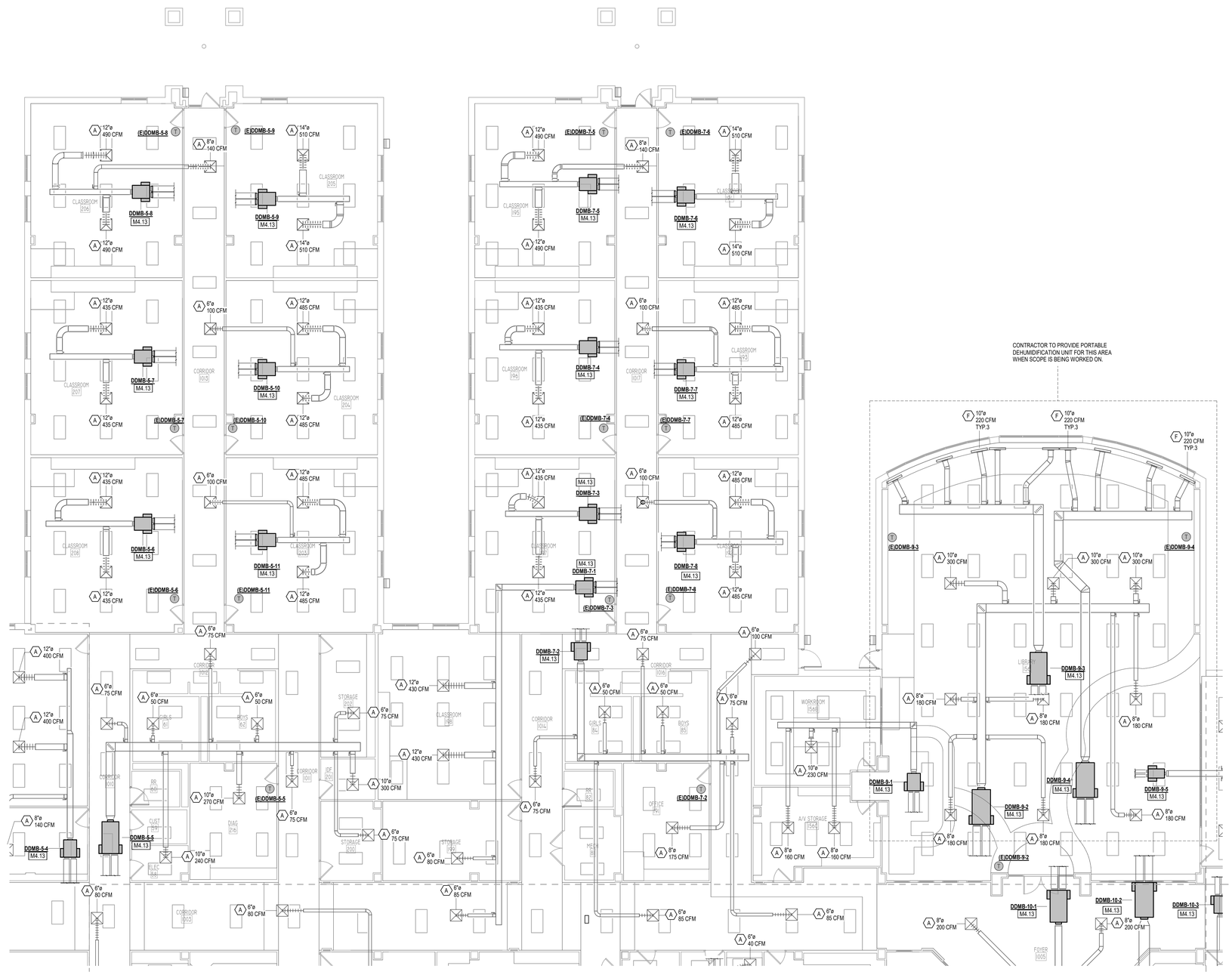

1 M12.11B **MECHANICAL PLAN - LEVEL ONE - UNIT B**
1/8" = 1'-0"

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PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL PLAN - AREA B

SHEET NO.
M12.11B

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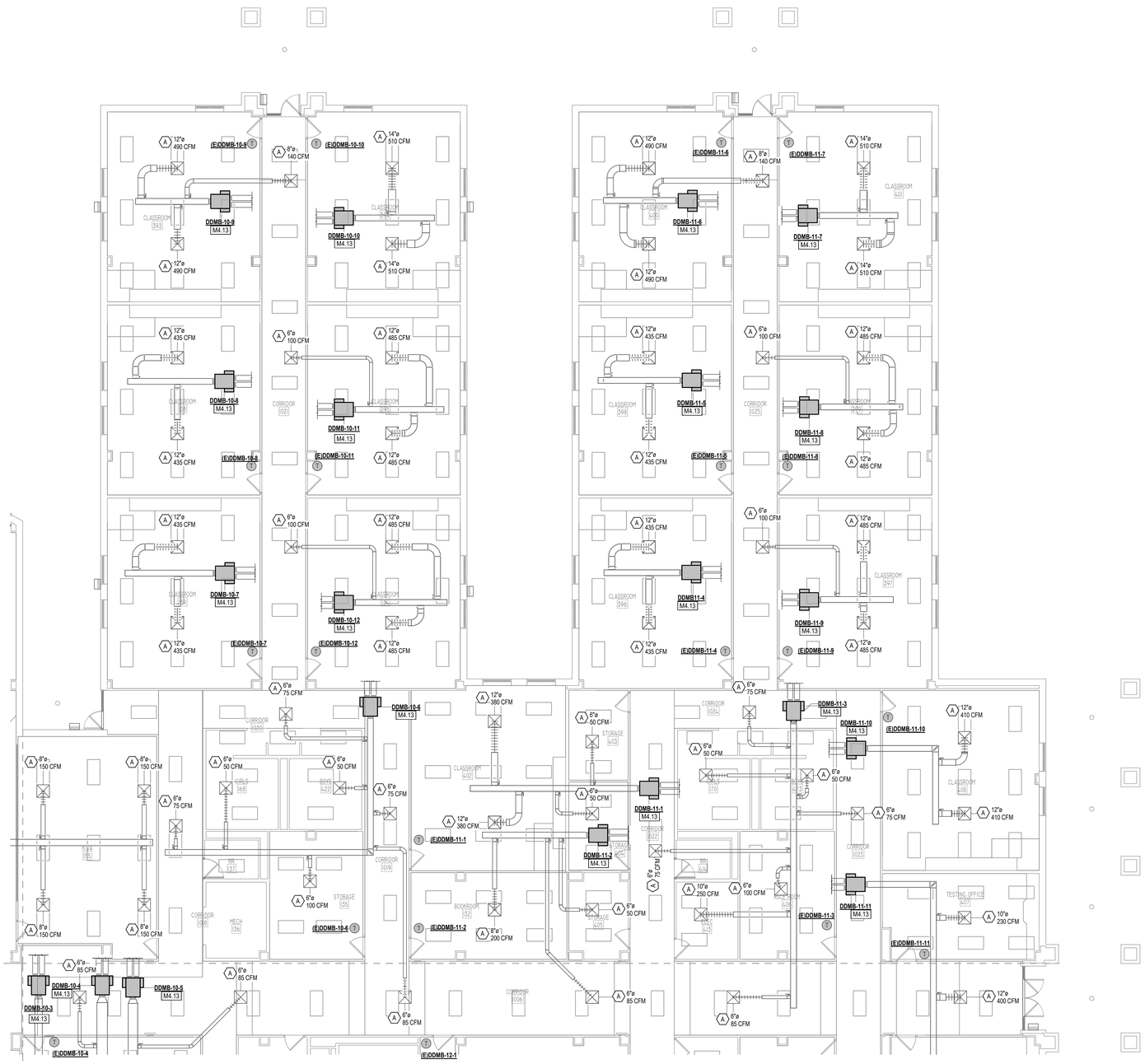

1 M12.11C **MECHANICAL PLAN - LEVEL ONE - UNIT C**

1/8" = 1'-0"

MECHANICAL KEYED NOTES

M4.13 PROVIDE NEW DUAL DUCT MIXING BOXES BUILDING WIDE AT THE APPROXIMATE LOCATIONS SHOWN. CONNECT NEW DUAL DUCT MIXING BOX TO EXISTING DUCTWORK, THERMOSTAT, ETC. COORDINATE INSTALLATION OF DUAL DUCT MIXING BOXES WITH THE INTERIOR FINISHES AS SHOWN ON ARCHITECTURAL SHEETS. ENSURE TIMING OF INSTALLATION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES. RE: 01/M15.02.

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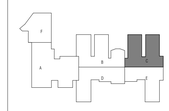

KEY PLAN

ISSUED: 11/14/2024

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Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL PLAN - AREA C

SHEET NO.
M12.11C

CCISD Priority Repairs - FAPE GOFE ROBE

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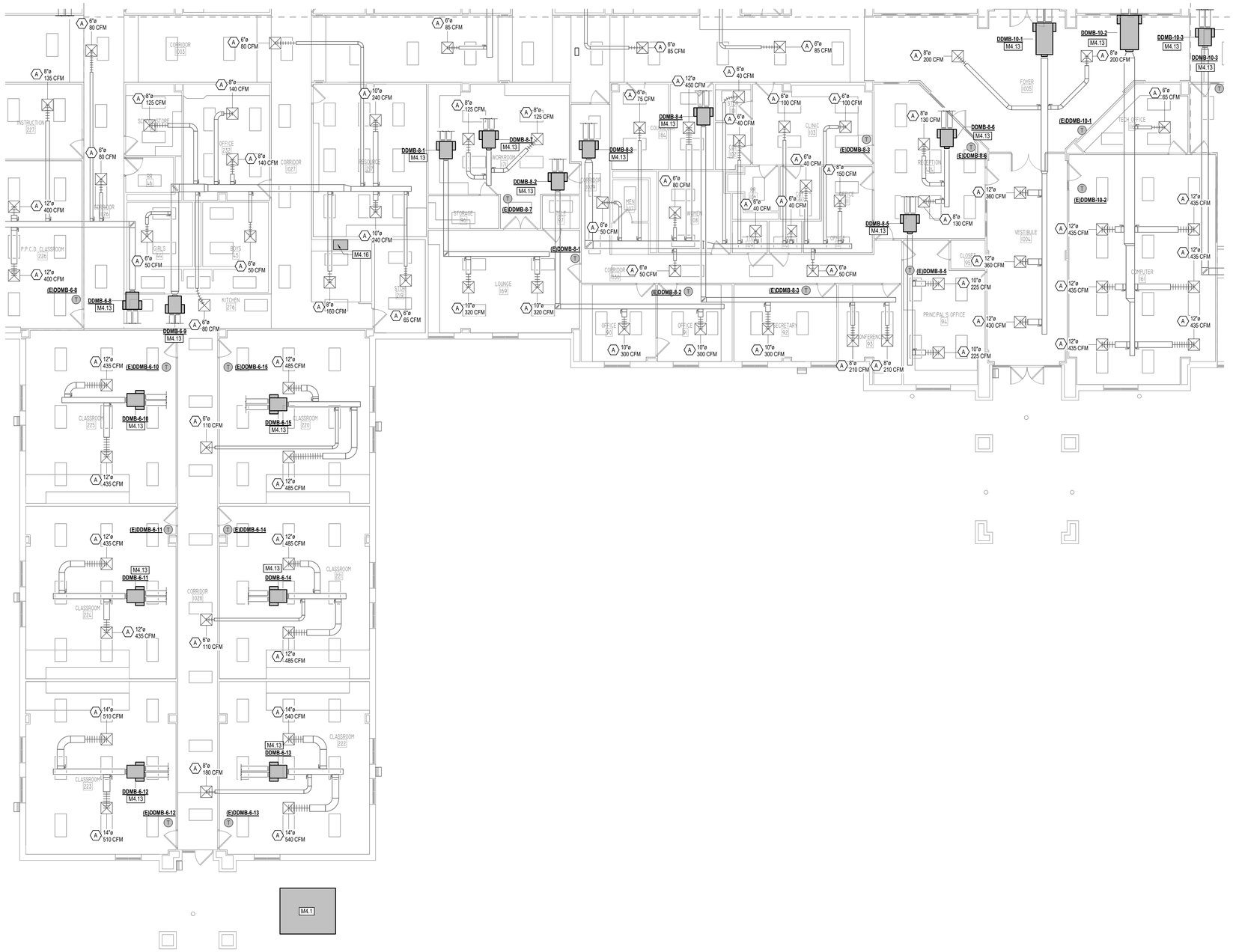

MECHANICAL KEYED NOTES

M4.1 APPROXIMATE LOCATION OF OFCI TEMPORARY AC UNIT. UNIT SHALL BE 35 TON UNIT. CONTRACTOR TO PROVIDE FLEXIBLE CONNECTION AND MEANS TO SEAL THE BUILDING ONCE CONNECTION TO SPACE IS MADE.

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M4.16 INSTALL NEW GUARDIAN III ANSUL SYSTEM WITHIN EXISTING HOOD SYSTEM AT THE APPROXIMATE LOCATION SHOWN. PROVIDE NEW GUARDIAN 3 HOOD AT THE APPROXIMATE LOCATION SHOWN. INSTALL HANGERS, SUPPORTS, CONDUIT AS NECESSARY. COORDINATE INSTALLATION WITH ELECTRICAL AND INTERIOR FINISHES AS SHOWN ON PLANS. ENSURE TIMING OF INSTALLATION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES.

GENERAL NOTE:
THE SEQUENCING FOR THE REPLACEMENT OF THE DUAL DUCT BOXES AND AIR HANDLING UNITS (AHUs) SHALL NOT COINCIDE WITH ANY OF THE INTERIORS SCOPE OF WORK FOR THIS PROJECT AT THE GIVEN CAMPUS. FOR EXAMPLE, IF THERE IS INTERIOR WORK OCCURING IN AREA A, THEN THE DUAL DUCT BOX AND AHU REPLACEMENT WORK SHALL NOT TAKE PLACE IN AREA A UNTIL THE INTERIOR WORK IS COMPLETE. THE NEW INTERIOR WORK SHALL NOT BE INSTALLED IN AN AREA OF THE BUILDING THAT IS WITHOUT AIR CONDITIONING DUE TO THE DUAL DUCT REPLACEMENT. NOTE THAT ALL AIR TERMINALS ARE TO REMAIN. CFM'S ARE INCLUDED FOR BALANCING PURPOSES.

1 M12.11D **MECHANICAL PLAN - LEVEL ONE - UNIT D**
1/8" = 1'-0"

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL PLAN - AREA D

SHEET NO.
M12.11D

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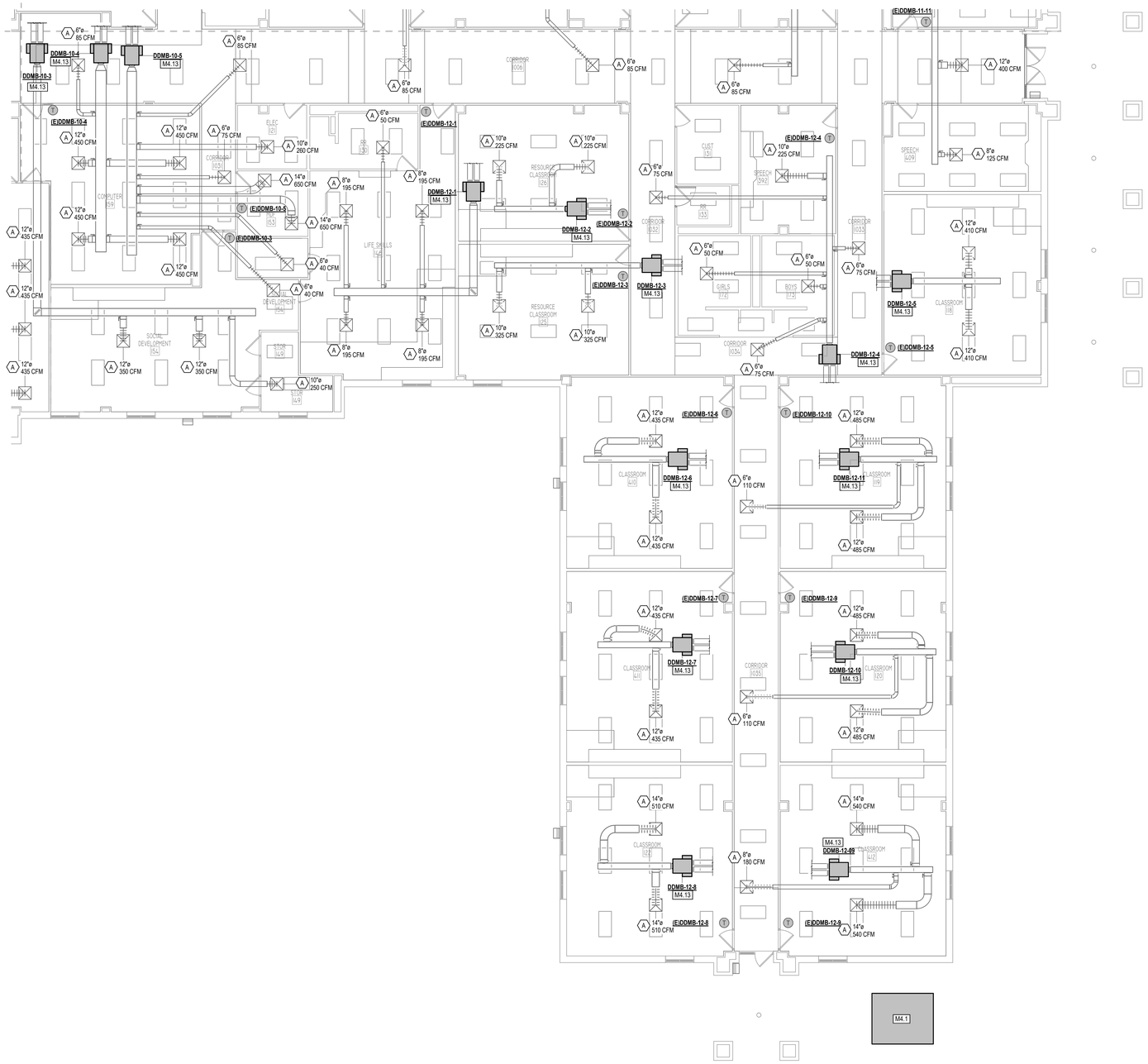

MECHANICAL KEYED NOTES

M4.1 APPROXIMATE LOCATION OF OFCI TEMPORARY AC UNIT. UNIT SHALL BE 35 TON UNIT. CONTRACTOR TO PROVIDE FLEXIBLE CONNECTION AND MEANS TO SEAL THE BUILDING ONCE CONNECTION TO SPACE IS MADE.

M4.13 PROVIDE NEW DUAL DUCT MIXING BOXES BUILDING WIDE AT THE APPROXIMATE LOCATIONS SHOWN. CONNECT NEW DUAL DUCT MIXING BOX TO EXISTING DUCTWORK, THERMOSTAT, ETC. COORDINATE INSTALLATION OF DUAL DUCT MIXING BOXES WITH THE INTERIOR FINISHES AS SHOWN ON ARCHITECTURAL SHEETS. ENSURE TIMING OF INSTALLATION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES. RE: 01/M15.02.

GENERAL NOTE:
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1 M12.11E **MECHANICAL PLAN - LEVEL ONE - UNIT E**
1/8" = 1'-0"

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KEY PLAN

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
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PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL PLAN - AREA E

SHEET NO.
M12.11E

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DBR Project # 240244
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GENERAL NOTE:
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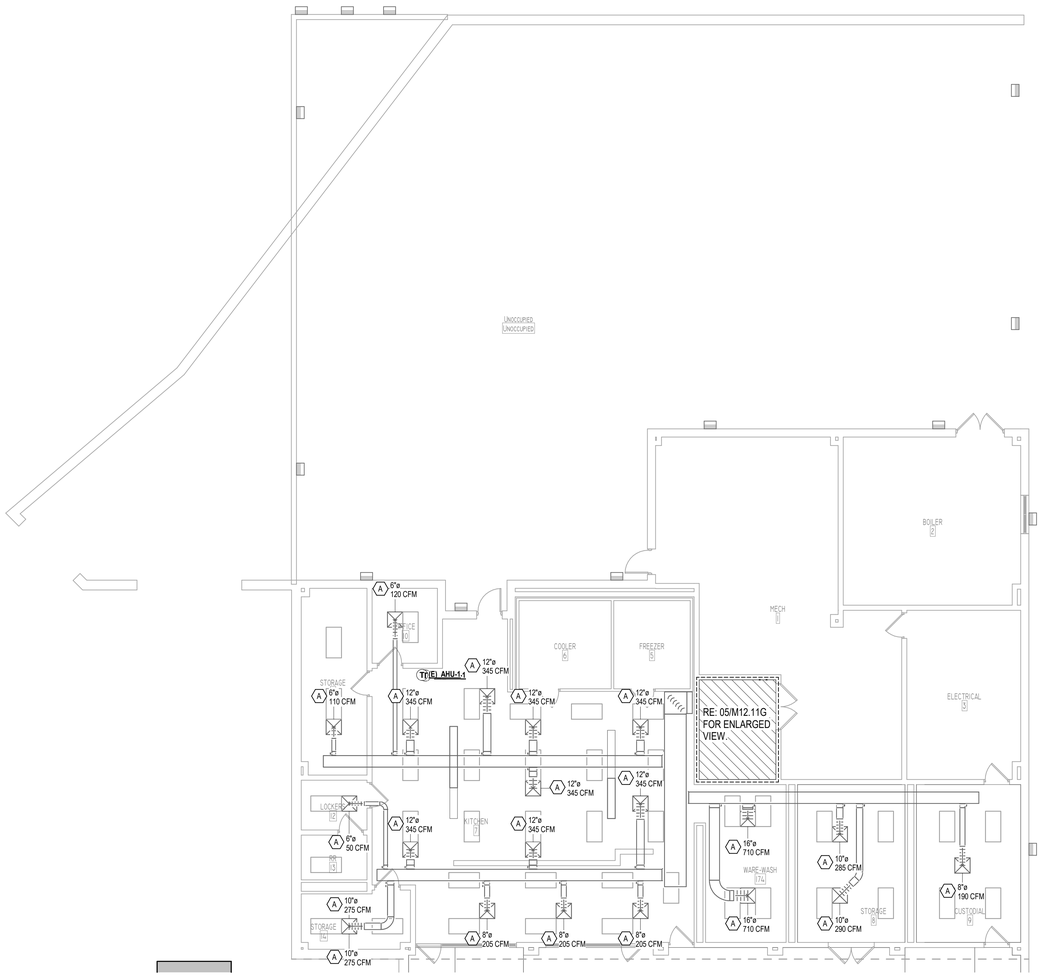

1 M12.11F **MECHANICAL PLAN - LEVEL ONE - UNIT F**
1/8" = 1'-0"

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KEY PLAN

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ISSUED: 11/14/2024

REVISIONS

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Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL PLAN - AREA F

SHEET NO.
M12.11F

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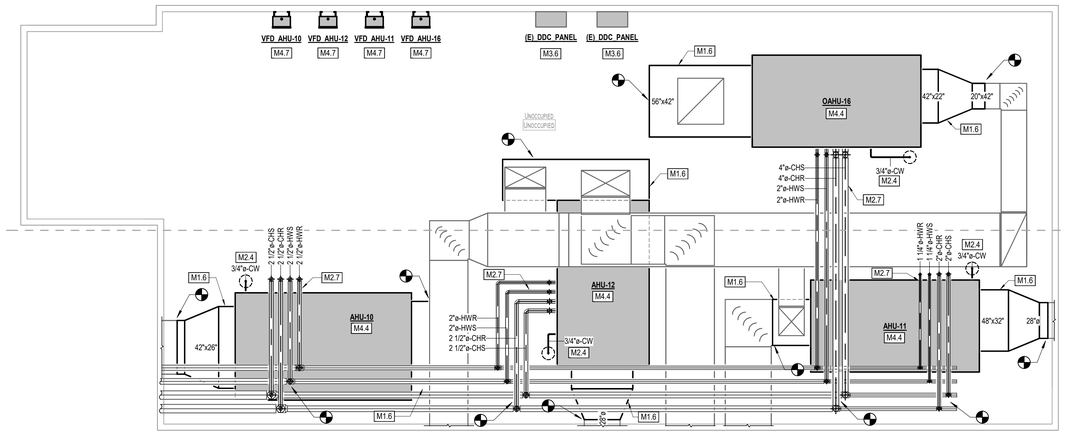
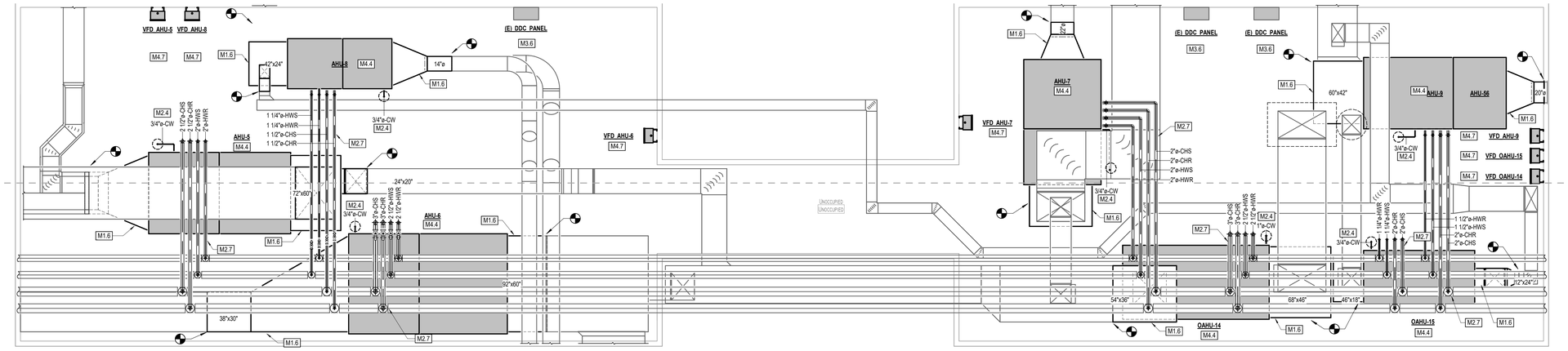
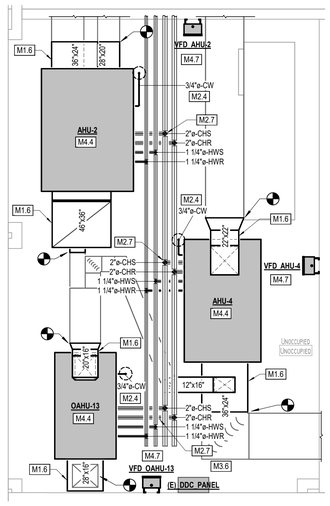


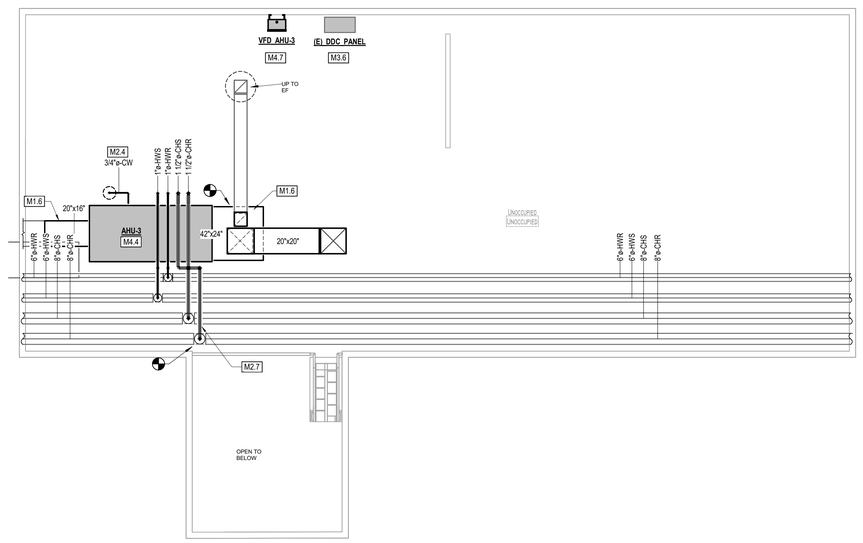
1 M12.11G **MECHANICAL PLAN - MEZZANINE PLAN - AREA C**
1/4" = 1'-0"



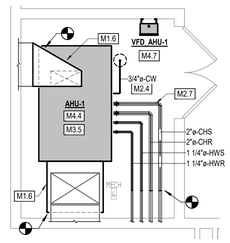
2 M12.11G **MECHANICAL PLAN - MEZZANINE PLAN - AREA B**
1/4" = 1'-0"



3 M12.11G **MECHANICAL PLAN - MEZZANINE PLAN - AREA A AT GYM**
1/4" = 1'-0"



4 M12.11G **MECHANICAL PLAN - MEZZANINE PLAN - AREA A**
1/4" = 1'-0"



5 M12.11G **MECHANICAL PLAN - LEVEL ONE - AREA F**
1/4" = 1'-0"

MECHANICAL KEYED NOTES

M1.6 REWORK AS NECESSARY TO RECONNECT UNIT TO EXISTING DUCT. PROVIDE ALL NECESSARY HANGERS, INSULATION, ETC. REQUIRED FOR PROPER INSTALLATION.

M2.4 ROUTE CONDENSATE DRAIN LINE FROM AHU TO NEAREST FLOOR DRAIN. SIZE AS INDICATED. FIELD COORDINATE EXACT ROUTING. PROVIDE PIPE ROOF SUPPORTS AT A MAXIMUM OF 10' O.C.

M2.7 RECONNECT PIPES TO NEW AHU. SIZE PER MANUFACTURERS RECOMMENDATIONS. PROVIDE HANGERS, INSULATION, ACTUATORS, ETC. FOR PROPER OPERATION.

M3.5 PROVIDE DDC CONTROLS PANEL. COORDINATE EXACT LOCATION WITH CONTROLS AND ELECTRICAL CONTRACTORS.

M3.6 PROVIDE WIRED CONTROLLER FOR DDMB AND AHU'S. CONTROLLER SHALL BE PROVIDED BY CONTROLS MANUFACTURER. INSTALL IN EXISTING CONTROLLERS PLACE AT RESPECTIVE DDC PANELS. NETWORK AREA CONTROLLERS TO BE REPLACED WITH NEW CONTROLLER MEETING 100 MBPS AS OUTLINED IN SPEC SECTION 23 09 63 - 2.3. EXISTING RACK TO BE RETURNED TO THE DISTRICT FOR PARTS.

M4.4 PROVIDE AIR HANDLING UNIT AT APPROXIMATE LOCATION SHOWN. PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER. MODIFY EXISTING CONCRETE PAD AS NEEDED TO ACCOMMODATE FOR NEW UNIT SIZE. PROVIDE FIELD FABRICATED MIXING BOX PLENUM ON AHU WITH RETURN AIR AND OUTSIDE AIR CONNECTIONS AS SHOWN. PLENUM BOX SHALL BE THE SAME HEIGHT AND WIDTH AS THE AHU RETURN AIR CONNECTION AND A MINIMUM OF 40" DEEP.

M4.7 PROVIDE VARIABLE FREQUENCY DRIVE AT APPROXIMATE LOCATION SHOWN. COORDINATE FINAL LOCATION WITH ELECTRICAL AND CONTROLS CONTRACTORS.

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ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL PLAN - ENLARGED VIEWS

SHEET NO.
M12.11G

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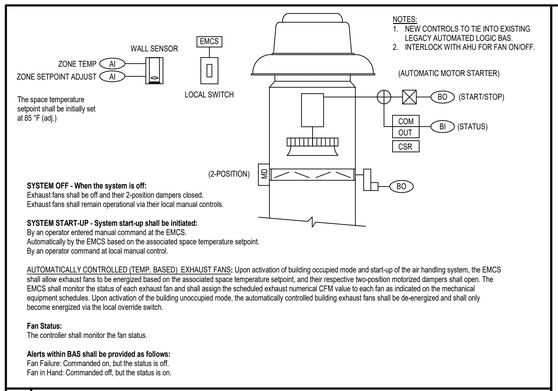


The space temperature setpoint shall be initially set at 85 °F (adj.)

NOTES:
1. NEW CONTROLS TO TIE INTO EXISTING LEGACY AUTOMATED LOGIC BAS.
2. INTERLOCK WITH AHU FOR FAN ON/OFF.

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.

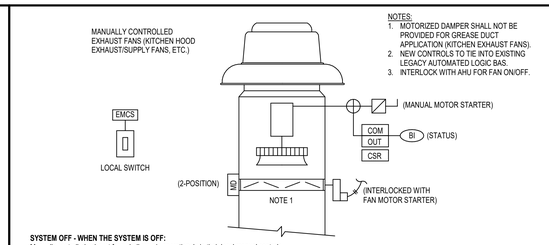
SYSTEM START-UP - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on the associated space temperature setpoint.
By an operator command at local manual control.

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.

Alerts within BAS shall be provided as follows:
Fan Failure: Commanded on, but the status is off.
Fan in Hand: Commanded off, but the status is on.

4 Automatically Controlled Temperature Based Exhaust Fans with Local Override Switch - Control Schematic and Sequence of Operations
NOT TO SCALE



NOTES:
1. MOTORIZED DAMPER SHALL NOT BE PROVIDED FOR GREASE DUCT APPLICATION (KITCHEN EXHAUST FANS).
2. NEW CONTROLS TO TIE INTO EXISTING LEGACY AUTOMATED LOGIC BAS.
3. INTERLOCK WITH AHU FOR FAN ON/OFF.

SYSTEM OFF - WHEN THE SYSTEM IS OFF:
Manually controlled exhaust fans shall remain operational via their local manual controls.

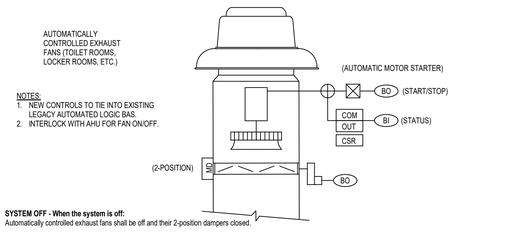
SYSTEM START-UP - SYSTEM START-UP SHALL BE INITIATED:
By an operator command at local manual control.

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.

Alerts within BAS 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.).

3 Manually Controlled Exhaust/Supply Fans - Control Schematic and Sequence of Operations
NOT TO SCALE



NOTES:
1. NEW CONTROLS TO TIE INTO EXISTING LEGACY AUTOMATED LOGIC BAS.
2. INTERLOCK WITH AHU FOR FAN ON/OFF.

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.

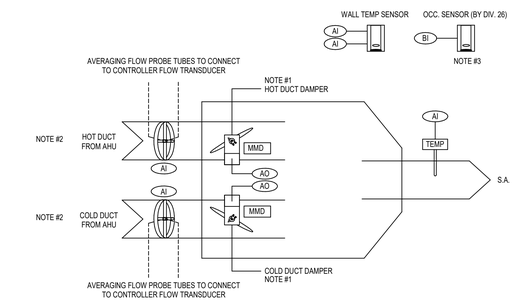
Fan Status:
The controller shall monitor the fan status.

Alerts within BAS 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/Supply Fans - Control Schematic and Sequence of Operations
NOT TO SCALE

AI	ANALOG INPUT	S	WALL SENSOR
AO	ANALOG OUTPUT	T	THERMOSTAT
DI/BI	DIGITAL/BINARY INPUT	CO2	CARBON DIOXIDE SENSOR
DO/BO	DIGITAL/BINARY OUTPUT	SP	SET POINT
MD	ON-OFF MOTORIZED DAMPER	S/A	SUPPLY AIR
MMD	MODULATING TYPE MOTORIZED DAMPER	R/A	RETURN AIR
AFMS	AIR FLOW MEASURING STATION	O/A	OUTSIDE AIR
MCV	CONTROL VALVE MODULATING TYPE	HC	HEATING COIL
VFD	VARIABLE FREQUENCY DRIVE	CC	COOLING COIL
CSR	CURRENT SENSING RELAY	DX	DIRECT EXPANSION COOLING COIL
FRZ	FREEZESTAT	PICCV	PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE
HSL	HIGH STATIC LIMIT	AFC	AIRFLOW CROSS
SPT	STATIC PRESSURE TRANSMITTER	DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSDUCER		
FM	FLOW METER		
FS	FLOW SWITCH		
DAT	DISCHARGE AIR TEMPERATURE SENSOR		

1 CONTROL SCHEMATIC LEGEND
NOT TO SCALE



NOTES:
1. TERMINAL UNIT CONTROLLERS AND DAMPER ACTUATORS SHALL BE SHIPPED TO THE TERMINAL UNIT MANUFACTURER FOR MOUNTING AND WIRING.
2. REFER TO MECHANICAL PLANS FOR DDMB HOT/COLD DUCT ORIENTATION.
3. 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.

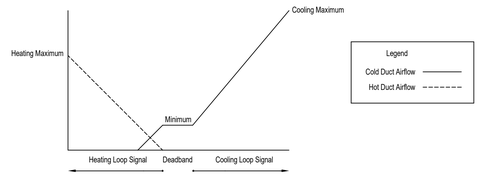
System Off - When the system is off:
The hot duct damper shall be closed.
The cold duct damper shall be closed.
The control loops shall be disabled.

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:
When the space temperature is above the deadband, the hot duct damper shall be closed and the cold duct damper shall be modulated between the box minimum airflow rate and the maximum cooling airflow rate to maintain space temperature within +/- 0.5 °F of the active Cooling Setpoint. When the space temperature is within the deadband, the hot duct damper shall be closed and the cold duct damper shall be modulated to maintain the box minimum airflow rate. When the space temperature falls below the deadband, the hot duct damper shall be modulated between zero and the maximum heating airflow rate to maintain space temperature within +/- 0.5 °F of the active Heating Setpoint. During this time, the cold duct damper shall be modulated as required to ensure the combined airflow rate delivered by the box does not fall below the box minimum airflow rate. Once the hot duct damper airflow rate exceeds the box minimum airflow, the cold duct damper shall be closed.

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 66 °F (adjustable).
The Standby Cooling Setpoint shall be set initially at 78 °F (adjustable).
The box minimum airflow rate and the maximum cooling and heating airflow rates shall be set at the values given in the Mechanical Drawings.

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.



5 Dual Duct Mixing Box - Control Schematic and Sequence of Operations
NOT TO SCALE

GENERAL NOTE: TIE ALL EQUPIMENT AND CONTROLS INTO LEGACY EXISTING ALC BAS SYSTEM.

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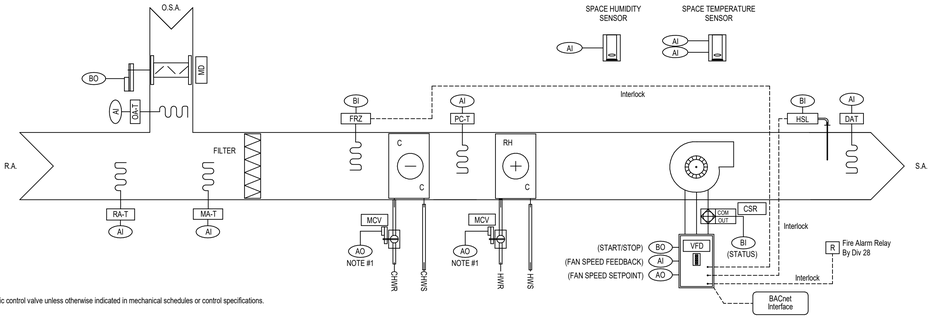
Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL CONTROL DIAGRAMS

SHEET NO.
M14.01



NOTES:
1. Provide 2-way automatic control valve unless otherwise indicated in mechanical schedules or control specifications.

System Off - When the system is off:
The outside air damper shall be closed.
The supply air fan shall be off.
The chilled water coil valve shall be closed.
The hot water coil valve(s) 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 Pre-Start Mode or Time of Day occupancy schedule.

Pre-Start Mode:
The system shall be enabled by an operator entered manual command at the EMCS or 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.

System Operation - When system start-up has been initiated:

The variable speed supply air fan shall start. Following a confirmation of fan start status, the supply fan shall initially be indexed to its minimum speed reference value. The speed of the fan shall not be adjusted by more than 20 Hz in any one-minute period.
OUTSIDE AIR DAMPER CONTROL: When the system is commanded to start, the EMCS shall open the outside air damper.
COOLING MODE: The EMCS shall modulate the chilled water control valve as required to maintain the active coil discharge air temperature setpoint. The EMCS shall modulate the supply fan VFD from its minimum setting to its maximum setting as required to maintain the active space temperature setpoint.
HEATING MODE: When the supply fan is operating at its minimum setting, the hot water re-heat control valve shall modulate to maintain the active space temperature setpoint. If the space temperature drops below its active setpoint and the unit discharge air temperature is at its active setpoint, then the EMCS shall modulate the supply fan VFD from its minimum setting to its maximum setting as required to maintain the active space temperature setpoint and the hot water re-heat control valve shall modulate to maintain the re-heat coil discharge air temperature setpoint.

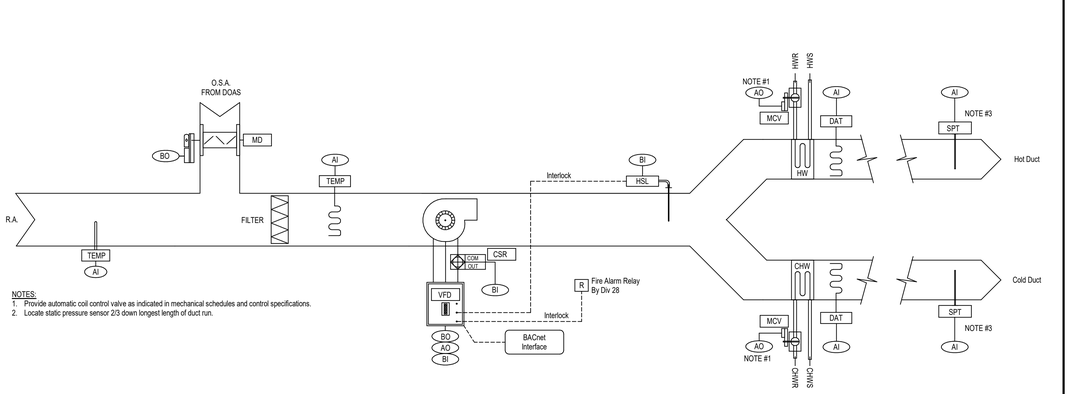
DE-HUMIDIFICATION MODE: When space humidity rises above its active setpoint and the space temperature is below its active setpoint, the EMCS shall modulate the supply fan VFD to its minimum setting and modulate the chilled water control valve to maintain the de-humidication chilled water coil discharge air temperature setpoint. The EMCS shall modulate the hot water re-heat control valve to maintain the space temperature setpoint as required. The unit shall return to cooling mode when the space humidity setpoint has been satisfied for at least 10 minutes (adj).
FREEZE PROTECTION: When the outdoor air temperature drops below the freeze protection setpoint, the EMCS shall open the chilled water control valve(s) to 50% open (adj.) for water circulation through the coil. The control valve shall return to normal operating conditions when the ambient temperature is above the freeze protection setpoint for 10 minutes (adj.). Refer to the Chilled Water System Control Diagram for further information.

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 space temperature setpoint shall be set at 70°F (adj) with a low-limit alarm of 66°F (adj).
The occupied cooling space temperature setpoint shall be set at 75°F (adj) with a high-limit alarm of 79°F (adj).
The unoccupied heating space temperature setpoint shall be set at 55°F (adj) with a low-limit alarm of 51°F (adj).
The unoccupied cooling space temperature setpoint shall be set at 85°F (adj) with a high-limit alarm of 89°F (adj).
The chilled water coil discharge air temperature setpoint shall be set at 53°F (adj) with a low-limit alarm of 48°F (adj).
The de-humidification chilled water coil discharge air temperature setpoint shall be set at 50°F (adj) with a low-limit alarm of 45°F (adj).
The re-heat coil discharge air temperature setpoint shall be set at 95°F (adj) with a high-limit alarm of 105°F (adj).
The space humidity setpoint shall be set at 55% RH (adj) with a high-limit alarm of 60% RH (adj).
The outside air flowrate setpoint shall be set at the scheduled flowrate from the unit schedule on the mechanical drawings.
The supply duct static pressure high-limit setpoint shall be set at 2.0 in. wc. (adj).
The freeze-stat low-limit trip setpoint shall be set at 37°F(adj).
The outdoor air temperature freeze protection setpoint shall be 37°F (adj).

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Time of Day schedule.
Automatically by the high-static pressure shut down.
Automatically by the unit freeze-stat shut down.
Automatically by a supply fan current sensor status failure.
Automatically by the auxiliary fire alarm relay when an alarm condition has been initiated.

System Alarms - The EMCS shall generate an alarm condition for each of the following:
If the space temperature is outside the active low or high-limit for 5 minutes (adj).
If the supply air temperature drops below the chilled water coil discharge air temperature low-limit for 5 minutes (adj).
If the supply air temperature rises above the heating coil discharge air temperature high-limit for 5 minutes (adj).
If the space humidity level exceeds its high-limit for more than 20 minutes (adj).
If the supply duct static pressure exceeds the high-limit setpoint.
If the unit freeze-stat trips.
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.

2 **Single Zone VAV AHU Chilled Water Cooling, Hot Water Heating, De-Humidification - Control Schematic and Sequence of Operations (AHU 1,2,3,& 4)**
NOT TO SCALE



NOTES:
1. Provide automatic coil control valve as indicated in mechanical schedules and control specifications.
2. Locate static pressure sensor 2/3 down longest length of duct run.

System Mode - The system shall be controlled by one of the following four modes:
UNOCCUPIED, PRE-START, OCCUPIED

UNOCCUPIED MODE:
The outside air damper shall be closed.
The unit supply fan shall be off.
The cooling coil valve shall be closed.
The heating coil valve shall be closed.
All control loops shall be disabled.

OCCUPIED MODE:

The system shall be enabled automatically by the EMCS based on the actual space occupancy. When the Time of Day schedule (TOD) is active, the system shall operate per the **System Operation** section, as detailed below.
Outside Air Damper Control: When the system is commanded to start, the EMCS shall open the outside air damper.

System Operation - When system start-up has been initiated:

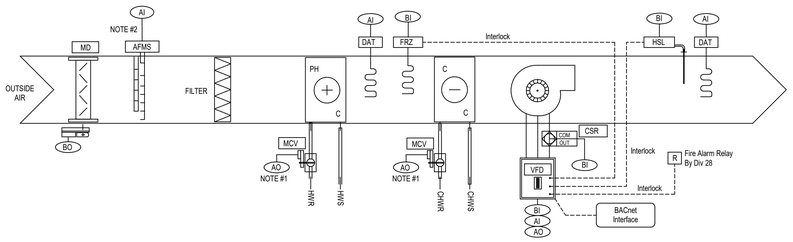
The variable speed supply fan shall start at its minimum speed. Following a confirmation of fan start status, the supply fan speed shall be modulated to maintain the supply air static pressure at setpoint. The controller shall utilize the lower of the two duct static pressure readings from the cold and hot ducts as the control reference for supply air static pressure. 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 supply air static pressure setpoint shall be reset up in defined increments at defined intervals until the 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 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.
Cold Deck Cooling Coil Valve - The cooling coil control valve shall be modulated to maintain the active cooling supply air temperature setpoint. The cooling supply air temperature setpoint shall be reset via the control algorithm below to optimize the energy usage.
Cooling Supply Air Temperature Reset - The cooling 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.
Hot Deck Heating Coil Valve - The heating coil control valve shall be modulated to maintain the active heating supply air temperature setpoint. The heating supply air temperature setpoint shall be reset via the control algorithm below to optimize the energy usage.
Heating Supply Air Temperature Reset - The heating supply air temperature setpoint shall be reset based on the outside air temperature, according to the defined reset schedule detailed in the **System Setpoint** section.

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Time of Day schedule.
Automatically by the high-static pressure shut down.
Automatically by a supply fan current sensor status failure.
Automatically by the auxiliary fire alarm relay when an alarm condition has been initiated.

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 1.25 inches w.c. (adj) and shall have reset limits of 0.20 to 2.00 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 damper position setpoint shall be 90% open. (adj)
The time interval for terminal unit damper position shall be set at 15 minutes. (adj)
The cooling supply air temperature setpoint shall be set initially to 54 °F. (adj)
The cooling supply air temperature setpoint shall be reset to 53 °F (adj) when the return air temperature is at 78 °F. (adj)
The cooling supply air temperature setpoint shall be reset to 57 °F (adj) when the return air temperature is at 70 °F. (adj)
The heating supply air temperature setpoint shall be set initially to 95 °F (adj)
The heating supply air temperature setpoint shall be reset to 95 °F (adj) when the outside air temperature is at 35 °F (adj) or below.
The heating supply air temperature setpoint shall be reset to 70 °F (adj) when the outside air temperature is at 70 °F (adj) or above.
The outside air flowrate setpoint shall be set at the scheduled flowrate from the unit schedule on the mechanical drawings.
The supply duct static pressure high-limit setpoint shall be set at 2.5 in. wc. (adj).

System Alarms - The EMCS shall generate an alarm if:
If the supply duct static pressure exceeds the high-limit setpoint.
If the cooling supply air temperature is outside the limits, which shall be set at +/- 5 °F around setpoint.
If the heating supply air temperature is outside the limits, which shall be set at +/- 5 °F around setpoint.
If the current sensor relay indicates a supply fan failure status.
All alarms shall be inhibited when the supply fan is not operating.

1 **Dual Duct VAV Air Handling Unit - Control Schematic and Sequence of Operations (AHU 5,6,7,8,9,10,11, & 12)**
NOT TO SCALE



NOTES:
1. Provide coil control valve as indicated in mechanical schedules and control specifications.

SYSTEM OFF - WHEN THE SYSTEM IS OFF:
The outside air damper shall be closed.
The unit supply fan shall be off.
The cooling coil valve shall be closed.
The preheating coil valve shall be closed.
All 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 Pre-Start Mode or Time of Day occupancy schedule.

PRE-START MODE:
The system shall be enabled by an operator entered manual command at the EMCS or automatically by the EMCS based on the TIme of Day (TOD) occupancy schedule. Once enabled, the system shall operate per the **System Operation** section, as detailed below.

OCCUPIED MODE:
The system shall be enabled automatically by the EMCS based whenever any of the associated AHU's it serves has an active call for ventilation air. When the Time of Day schedule (TOD) is active, the system shall 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 at its minimum speed. Following a conformation 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 chilled water coil control valve shall be modulated to maintain the supply air temperature at setpoint. The control shall be active when the outside air temperature is above 55 °F. (adj)

The hot water pre-heat coil control valve shall be modulated to maintain the pre-heat coil discharge air temperature at setpoint. The control shall be active when the outside air temperature is below 53 °F. (adj)

Freeze Protection: When the outdoor air temperature drops below the freeze protection setpoint, the EMCS shall open the chilled water control valve(s) to 50% open (adj.) for water circulation through the coil. The control valve shall return to normal operating conditions when the ambient temperature is above the freeze protection setpoint for 10 minutes (adj.). Refer to the Chilled Water System Control Diagram for further information.

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Time of Day schedule.
Automatically by the high-static pressure shut down.
Automatically by the unit freeze-stat shut down.
Automatically by a supply fan current sensor status failure.
Automatically by the auxiliary fire alarm relay when an alarm condition has been initiated.

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 maximum supply airflow value from the unit schedule on the Mechanical Drawings.
The minimum speed reference value shall be the VFD speed required to obtain the design minimum supply airflow value from the unit schedule on the Mechanical Drawings.
The supply air static pressure setpoint shall be 1.0 inches w.c. (adj)
The supply air temperature setpoint shall be set initially at 55 °F. (adj)
The pre-heat setpoint shall be set to 53 °F (adj)
The supply duct static pressure high-limit setpoint shall be set at 2.0 in. wc. (adj).
The freeze-stat low-limit trip setpoint shall be set at 37°F(adj).
The outdoor air temperature freeze protection setpoint shall be 37°F (adj).

System Alarms - The EMCS shall generate an alarm if:
If the supply duct static pressure exceeds the high-limit setpoint.
If the supply air temperature is outside the limits, which shall be set at +/- 5 °F around setpoint.
If the preheat air temperature is below the freezestat trip point, initially set at 37 °F. (adj)
If the current sensor relay indicates a supply fan failure status.
All alarms shall be inhibited when the supply fan is not operating. The alarms, except the fan failure alarm, shall remain inhibited following startup of the unit for 2 minutes.

3 **100 Percent Outdoor Air VAV Air Handling Unit - Control Schematic and Sequence of Operations (AHU 13,14,15, & 16)**
NOT TO SCALE

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL CONTROL DIAGRAMS

SHEET NO.
M14.02

DBR
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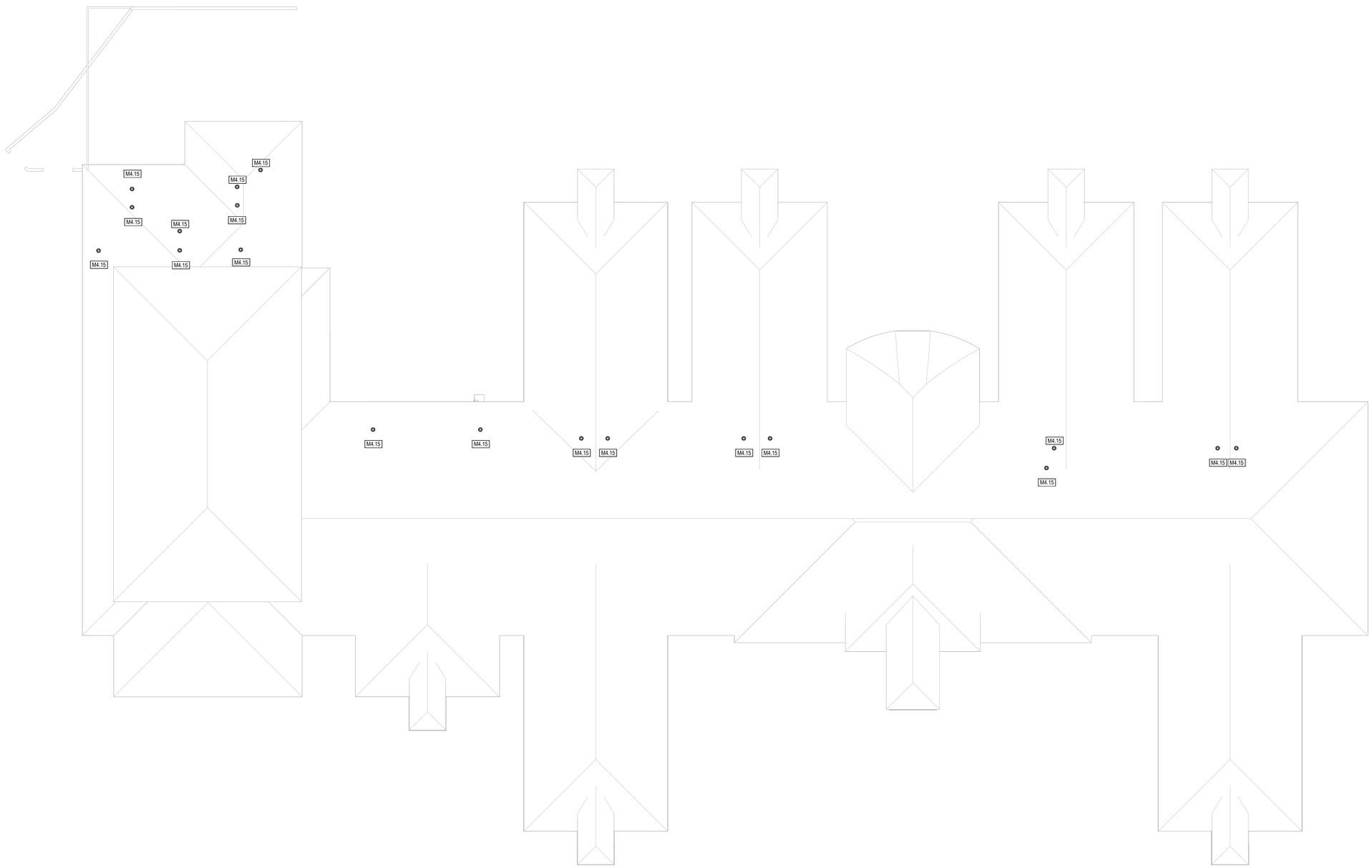
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK | RM/TD | LB/MS | TN/JL | LG/SS

GENERAL NOTE:
EXISTING ROOF IS UNDER WARRANTY, MECHANICAL SUB CONTRACTOR TO TAKE LIABILITY FOR ANY AND ALL DAMAGE TO ROOF WHILE FANS ARE BEING REPLACED. ANY AND ALL WORK ON AND AROUND THE ROOF SHALL BE DONE SUCH THAT THE MANUFACTURERS ROOFING WARRANTY IS MAINTAINED.



1 M15.00 **MECHANICAL ROOF PLAN**
1" = 20'-0"

MECHANICAL KEYED NOTES

M4.15 PROVIDE ROOF MOUNTED FAN AT APPROXIMATE LOCATION SHOWN. FAN TO BE INSTALLED IN SAME PLACE THAT EXISTING FAN WAS. PROVIDE FAN WITH ROOF CURB, PAINT TO MATCH ROOF. ACCESSORIES, ETC. AS NECESSARY FOR REWORKING. CONTRACTOR RESPONSIBLE FOR ENSURING ROOF CURB PENETRATION IS SEALED. RE: 03M15.02.

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL ROOF PLAN

SHEET NO.
M15.00

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https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS

AIR HANDLING UNIT SCHEDULE

	MARK	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6	AHU-7	AHU-8	AHU-9	AHU-10	AHU-11	AHU-12	OAHU-13	OAHU-14	OAHU-15	OAHU-16
	SERVES	KITCHEN	CAFETERIA	STAGE	GYMNASIUM	CLASSROOMS	CLASSROOMS	CLASSROOMS	ADMIN.	LIBRARY	CLASSROOMS	CLASSROOMS	CLASSROOMS	AHU-2,4	AHU-5,6,7	AHU-8,9	AHU-10,11,12
	TYPE	HDT-SZ	HDT-SZ	HDT-SZ	HDT-SZ	HBT-DD	HBT-DD	HBT-DD	HBT-DD	HBT-DD	HBT-DD	HBT-DD	HBT-DD	HDT	HDT	HDT	HDT
	UNIT CONFIGURATION	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS
	DISCHARGE	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.
FAN	DESIGN SUPPLY AIR (CFM)	6,115	4,635	2,225	4,400	11,075	16,590	7,675	5,080	5,110	15,900	9,775	9,480	2,250	11,295	1,885	10,265
	DESIGN OUTDOOR AIR (CFM)	540	1,125	200	1,125	3,540	5,115	2,640	800	1,245	3,585	3,180	3,500	2,250	11,295	1,885	10,265
	EXT. S.P. (IN. W.G.)	0.875	0.875	0.875	1.0	1.75	2.25	1.625	1.625	1.625	1.625	1.625	1.625	0.75	0.75	0.75	0.75
	FAN MOTOR HORSEPOWER (HP / # OF FANS)	5 / 1	5 / 1	1.5 / 1	5 / 1	15 / 1	10 / 2	10 / 1	5 / 1	7.5 / 1	7.5 / 2	10 / 1	10 / 1	1.5 / 1	10 / 1	2 / 1	10 / 1
	VOLTS/PHASE/HERTZ	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60
	MAX. FAN RPM	2,069	2,182	2,019	2,119	1,693	2,112	1,967	2,126	1,953	1,972	1,986	1,944	2,099	1,670	2,069	1,649
	FULL LOAD AMPS (FLA)	6.7	6.7	2.3	6.7	18.1	28.0	12.5	6.7	9.8	21.0	12.5	12.5	2.3	12.5	2.9	12.5
	MCA/MOP	8.38 / 15	8.38 / 15	2.88 / 15	8.38/15	22.63/40	35 / 60	15.63/25	8.38/15	12.25/20	26.25 / 45	15.63/25	15.63/25	2.88 / 15	15.63/25	3.63/15	15.63/25
COOLING COIL	MAX. COIL FACE VELOCITY (FPM)	500	500	500	500	500	500	500	509	500	500	500	500	500	500	500	500
	MINIMUM COIL ROWS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	MAX. FINS PER INCH	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	COIL CFM	6,115	4,635	2,225	4,400	11,075	16,590	7,675	5,080	5,110	15,900	9,775	9,480	2,250	11,295	1,885	10,265
	EAT DB/WB (°F)	79.5 / 64.6	75.8 / 62.2	83.3 / 65.7	75.2 / 62.0	76.2 / 62.3	77.0 / 62.5	76.3 / 62.3	78.3 / 63.1	77.2 / 62.7	76.0 / 62.3	76.1 / 62.3	75.0 / 61.9	97 / 77	97 / 77	97 / 77	97 / 77
	LAT DB/WB (°F)	55	51.3	55	51.8	53.28	53.2	52.02	55.54	53.85	53.74	52.89	52.65	52.82	52.81	55	55
	TOTAL COOLING CAPACITY (MBH)	194.6	147.9	80.8	135.4	314.4	483.8	229.9	133.7	144.6	426.6	282.9	266.6	187.3	939.4	173.9	872.9
	SENSIBLE COOLING CAPACITY (MBH)	164.7	124.7	69.1	113.2	278.6	433.3	204.5	129.9	131.0	388.4	249.1	232.5	110.4	554.3	105.0	526.9
	EWT/LWT (°F)	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56
	COIL WATER FLOW (GPM)	27.8	21.1	11.5	14.9	44.9	68.9	32.8	19.1	20.7	60.9	40.4	38.1	26.8	134.2	24.8	124.7
	CHW BRANCH PIPING SIZE	2"	2"	1.5"	2"	2.5"	2.5"	2.5"	2"	2"	2.5"	2.5"	2.5"	1.5"	2.5"	1.5"	2.5"
	MAX. WATER P.D. (FT. HD.)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
HEATING COIL	MAX. COIL FACE VELOCITY (FPM)	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
	MINIMUM COIL ROWS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	MAX. FINS PER INCH	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	COIL CFM	6,115	4,635	2,225	4,400	11,075	16,590	7,675	5,080	5,110	15,900	9,775	9,480	2,250	11,295	1,885	10,265
	EAT (°F)	63.0	64.0	63.0	63.0	62.0	62.0	62.0	64.0	64.0	63.0	62.0	61.0	20.0	20.0	20.0	20.0
	EWT/LWT (°F)	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160
	HEATING CAPACITY (MBH)	162.5	117.0	57.8	115.1	276.3	413.8	191.4	115.7	116.4	379.4	243.8	246.8	75.0	380.0	65.0	350.0
	COIL WATER FLOW (GPM)	16.3	11.7	5.8	11.5	27.6	41.4	19.1	11.6	11.6	37.9	24.4	24.7	7.5	38.0	6.5	35.0
	HW BRANCH PIPING SIZE	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"	1.25"	1.25"	1.25"	1.5"	1.5"	1.5"	1.5"	2"	1.5"	2"
	MAX. WATER P.D. (FT. HD.)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
MANUFACTURER		TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
OPERATING WEIGHT (LBS.)		1792	1603	1176	1569	2999	3984	2126	1512	1707	3759	2460	2460	1204	2996	1197	2875
DIMENSIONS		126 x 72 x 45	124 x 61.5 x 41.25	119 x 44 x 38.75	122 x 61.5 x 41.25	135 x 80 x 88	132 x 100 x 99	117 x 72 x 72	115 x 61.5 x 61	117 x 66.5 x 65	132 x 100 x 99	115 x 80 x 79	115 x 80 x 79	118 x 44 x 39	130 x 80 x 65	118 x 44 x 39	130 x 80 x 65
NOTES		1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14

NOTES:

1. PROVIDE UNIT WITH BLOW THRU DIRECT DRIVE PLENUM FAN SECTION, CHILLED WATER COIL SECTION, HOT WATER COIL SECTION, AND 2" ANGLED FILTER SECTION.
2. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE LOSSES DUE TO COILS, FILTERS, AND CASING.
3. PROVIDE UNIT WITH REMOTE MOUNTED VARIABLE FREQUENCY DRIVE.
4. PROVIDE CHILLED WATER COIL WITH 2-WAY AUTOMATIC CONTROL VALVE.
5. PROVIDE HOT WATER COIL WITH 2-WAY AUTOMATIC CONTROL VALVE.
6. PROVIDE SOUND DATA RATED IN ACCORDANCE WITH AHRI 260
7. PROVIDE UNITS WITH FACTORY MOUNTED EXTERNAL JUNCTION BOX (UNITS WITH ONE FAN) AND MOTOR OVERLOAD BOX (UNITS WITH MULTIPLE FANS)
8. PROVIDE CASING WITH MID-SPAN, NO-THROUGH-METAL, INTERNAL THERMAL BREAK SHALL BE PROVIDED FOR ALL FOAM INJECTED UNIT CASING PANELS
9. AIR HANDLING UNITS TO BE PROVIDED WITH SINGLE POINT OF FIELD WIRING CONNECTION
10. PROVIDE AHU DUCT CONNECTIONS IN LOCATION SPECIFIED ON DRAWINGS
11. FIELD FABRICATED MIXING BOX AND DAMPERS BY INSTALLING CONTRACTOR
12. UNITS SHALL BE CAPABLE OF DISASSEMBLY AND REASSEMBLY
13. SPECIFICATION CDE TO BE PROVIDED WITH BID SUBMISSION
14. PROVIDE MANUFACTURER DATA CONFIRMING NO SWEATING OF AHU AT DESIGN CONDITIONS

FAN SCHEDULE

MARK	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7	EF-8	EF-9	EF-10
SERVES	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	MDF
TYPE/DRIVE	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT
INTERLOCK	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS
CFM (MIN./MAX.)	1,100	700	800	700	700	600	700	700	1,295	2,000
EXT. S.P. (IN. W.G.)	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
HORSEPOWER	1/3	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/3	3/4
FAN SPEED (RPM)	1,513	1,250	1,353	1,250	1,250	1,457	1,250	1,250	1,263	1,263
SONES (MAX.)	9.2	8.2	9.2	8.2	8.2	8.9	8.2	8.2	10.0	11.5
VOLTS/PHASE/HERTZ	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	GB-100-3	GB-099-4	GB-099-4	GB-099-4	GB-099-4	GB-098-4	GB-099-4	GB-099-4	GB-120-3	GB-140-7
NOTES	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	2,7,8,9,10, 11

MARK	EF-11	EF-12	EF-13	EF-14	EF-15	KEF-1	KEF-2	KSF-1	KSF-2
SERVES	CENTRAL PLANT	CENTRAL PLANT	ELECTRICAL	DISHWASHER	KIT. TOILET	KITCHEN HOOD	KITCHEN HOOD	KITCHEN HOOD	KITHCEN HOOD
TYPE/DRIVE	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT
INTERLOCK	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS
CFM (MIN./MAX.)	1000 / 2000	5,000	2,500	600	150	3,450	3,600	2,070	2,160
EXT. S.P. (IN. W.G.)	0.500	0.250	0.250	0.625	0.375	1.625	1.625	0.750	0.750
HORSEPOWER	3/4	1 1/2	1	1/4	1/6	2	3	1	1
FAN SPEED (RPM)	1,586	977	1,438	1,366	1,134	1,382	1,404	978	993
SONES (MAX.)	15.3	15.9	15.7	7.2	4.9	18.7	19.4	12.1	12.5
VOLTS/PHASE/HERTZ	115/60/1	460/3/60	115/60/1	115/60/1	115/60/1	460/3/60	460/3/60	115/60/1	115/60/1
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	G-130-VG	GB-200-15	GB-140-10	CUBE-099-4	GB-097-6	CUBE-180-20	CUBE-180-30	KSF-1	
NOTES	5,7,8,9,10, 11	2,7,8,9,10, 11	2,7,8,9,10, 11	4,7,8,9,10, 11	6,7,8,9,10, 11	3,7,8,9,10, 11	3,7,8,9,10, 11	3,7,8,9,10, 11	3,7,8,9,10, 11

NOTES:

1. FAN SHALL BE INTERLOCKED WITH BAS SYSTEM AND AIR HANDLING UNIT SERVING THIS AREA FOR SIMULTANEOUS OPERATION.
2. FAN SHALL BE CONTROLLED BY BAS SYSTEM BASED ON SIGNAL FROM TEMPERATURE SENSOR. FAN SHALL BE ENERGIZED WHEN ROOM TEMPERATURE RISES ABOVE SETPOINT.
3. FAN SHALL BE STARTED AND STOPPED BY SWITCH ON OR NEAR KITCHEN HOOD. EXHAUST FAN AND SUPPLY FAN SERVING THE SAME HOOD SHALL BE INTERLOCKED WITH BAS SYSTEM FOR SIMULTANEOUS OPERATION.
4. FAN SHALL BE INTERLOCKED WITH BAS SYSTEM AND DISHWASHER HOOD AND SHALL HAVE A TIMED RELAY. FAN SHALL BE ENERGIZED WHEN DISHWASHER IS ACTIVATED AND SHALL RUN FOR A MINIMUM OF 10 MINUTES.
5. REFRIGERATION MACHINERY ROOM VENTILATION FAN SHALL OPERATE CONTINUOUSLY AT LOW SPEED TO EXHAUST AIR FROM ROOM AT A RATE OF 1000 CFM. WHEN THE REFRIGERANT MONITORING AND BAS SYSTEM ALARM DETECTS A REFRIGERANT LEAK, THE FAN SHALL BE SWITCHED TO HIGH SPEED TO EXHAUST AIR FROM THE ROOM AT A RATE OF 2000 CFM.
6. TOILET ROOM EXHAUST FAN SHALL BE INTERLOCKED WITH LIGHTS.
7. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES.
8. PROVIDE WITH 12" PREFABRICATED ROOF CURB, WEATHERPROOF DISCONNECT SWITCH, AND ALUMINUM BIRD SCREEN.
9. 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.
10. PROVIDE WITH DIRECT DRIVE, ELECTRONICALLY COMMUTATED FAN MOTOR (ECM).
11. PAINT TO MATCH ROOF.

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director
Approver
Designer
Designer
Proj. Arch.
DBR

Drawn By
DBR
Quality Control

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL SCHEDULES

SHEET NO.
M15.01

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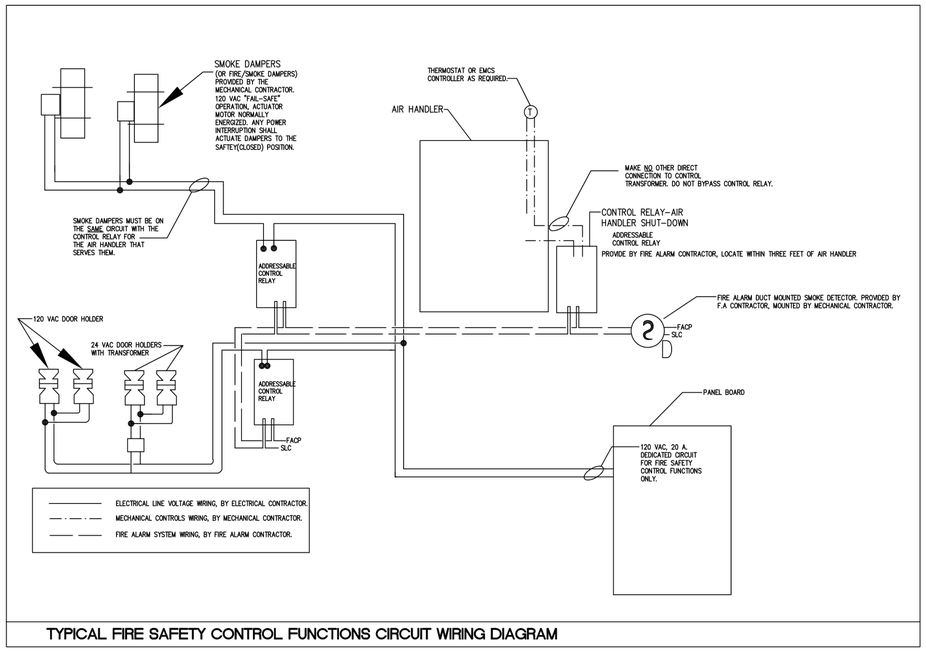
DBR Project # 240244
EK | RM/TD/LB/MS | TN/JL | LG/SS



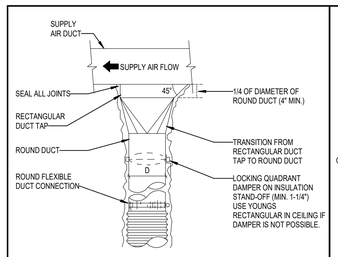
TYPICAL FIRE SAFETY CONTROL FUNCTIONS CIRCUIT WIRING DIAGRAM

GENERAL NOTE: CONTRACTOR TO UPGRADE MAIN GATEWAY FOR BUILDING ON EACH CAMPUS.

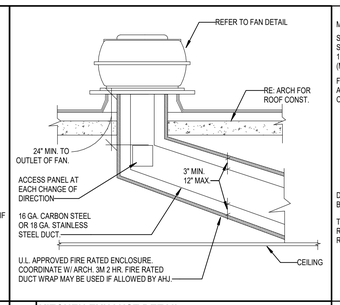
DUAL DUCT MIXING BOX SCHEDULE

MARK	MAX. COOLING CFM	MAX. HEATING CFM	MIN. CFM	INLET SIZE (IN.)		OUTLET (IN.)	MFR	MODEL NO.
				COLD	HOT			
DDMB-5-1	1,210	1,210	365	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-5-2	860	860	260	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-3	860	860	260	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-4	840	840	255	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-5	1,285	1,285	390	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-5-6	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-7	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-8	1,120	1,120	340	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-5-9	1,020	1,020	310	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-10	1,070	1,070	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-11	1,070	1,070	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-1	1,460	1,460	440	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-6-2	1,400	1,400	420	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-6-3	650	650	195	9"Ø	9"Ø	10"x11"	TITUS	DMDV
DDMB-6-4	1,150	1,150	345	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-6-5	1,020	1,020	310	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-6	1,370	1,370	415	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-6-7	760	760	230	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-6-8	1,150	1,150	345	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-6-9	1,370	1,370	415	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-6-10	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-11	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-12	1,020	1,020	310	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-13	1,260	1,260	380	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-6-14	1,080	1,080	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-15	1,080	1,080	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-1	885	885	270	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-2	770	770	235	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-7-3	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-4	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-5	1,120	1,120	340	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-7-6	1,020	1,020	310	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-7	1,070	1,070	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-8	1,070	1,070	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-8-1	640	640	195	9"Ø	9"Ø	10"x11"	TITUS	DMDV
DDMB-8-2	600	600	180	9"Ø	9"Ø	10"x11"	TITUS	DMDV
DDMB-8-3	1,265	1,265	380	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-8-4	720	720	220	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-8-5	450	450	135	8"Ø	8"Ø	7"X8"	TITUS	DMDV
DDMB-8-6	260	260	80	6"Ø	6"Ø	6"X6"	TITUS	DMDV
DDMB-8-7	250	250	75	6"Ø	6"Ø	6"X6"	TITUS	DMDV
DDMB-9-1	550	550	165	9"Ø	9"Ø	10"x11"	TITUS	DMDV
DDMB-9-2	1,980	1,980	595	16"Ø	16"Ø	15" x 16"	TITUS	DMDV
DDMB-9-3	1,100	1,100	330	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-9-4	880	880	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-9-5	600	600	180	9"Ø	9"Ø	10" x 11"	TITUS	DMDV
DDMB-10-1	1,550	1,550	465	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-10-2	2,675	2,675	805	16"Ø	16"Ø	15" x 16"	TITUS	DMDV
DDMB-10-3	1,340	1,340	405	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-10-4	1,885	1,885	570	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-10-5	1,720	1,720	520	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-10-6	710	710	215	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-10-7	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-10-8	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-10-9	1,120	1,120	340	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-10-10	1,020	1,020	310	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-10-11	1,070	1,070	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-10-12	1,070	1,070	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-1	860	860	260	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-2	335	335	105	7"Ø	7"Ø	6"X6"	TITUS	DMDV
DDMB-11-3	760	760	230	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-11-4	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-5	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-6	1,120	1,120	340	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-11-7	1,020	1,020	310	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-8	1,070	1,070	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-9	1,070	1,070	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-10	820	820	250	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-11	755	755	230	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-12-1	830	830	250	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-2	450	450	135	8"Ø	8"Ø	7"X8"	TITUS	DMDV
DDMB-12-3	650	650	195	9"Ø	9"Ø	10"x11"	TITUS	DMDV
DDMB-12-4	550	550	165	9"Ø	9"Ø	10"x11"	TITUS	DMDV
DDMB-12-5	820	820	250	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-6	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-7	870	870	265	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-8	1,020	1,020	310	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-9	1,260	1,260	380	14"Ø	14"Ø	12" x 16"	TITUS	DMDV
DDMB-12-10	1,080	1,080	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-11	1,080	1,080	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV

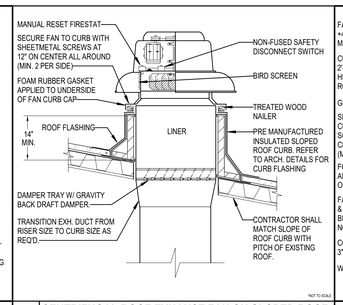
NOTES:
1. PROVIDE AEROCROSS MULTI-POINT CENTER AVERAGING VELOCITY SENSORS IN EACH PRIMARY AIR INLET.
2. PROVIDE MIXING BOX WITH INTEGRAL MIXER / SOUND ATTENUATOR.
3. PROVIDE TERMINAL UNIT CASING WITH 1" INTERNALLY LINED FIBERGLASS FREE INSULATION.
4. EMCS CONTRACTOR SHALL PROVIDE 24VAC TO EACH PRIMARY AIR INLET DAMPER ACTUATOR.



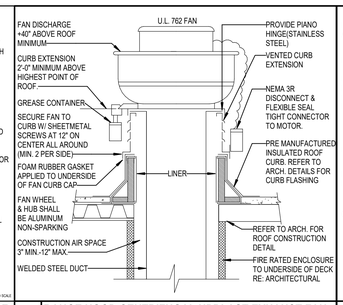
5 RECTANGULAR TAP TO ROUND TRANSITION
NOT TO SCALE



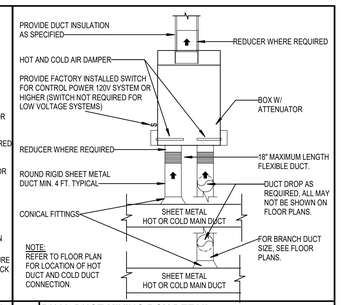
4 KITCHEN EXHAUST DETAIL
NOT TO SCALE



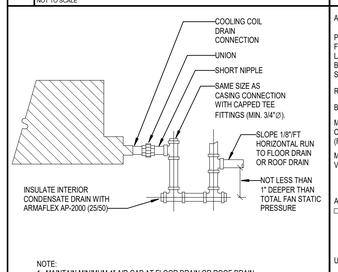
3 CENTRIFUGAL ROOF EXHAUST FAN ON SLOPED ROOF
NOT TO SCALE



2 RANGE HOOD CENTRIFUGAL UPBLAST EXHAUST FAN
NOT TO SCALE

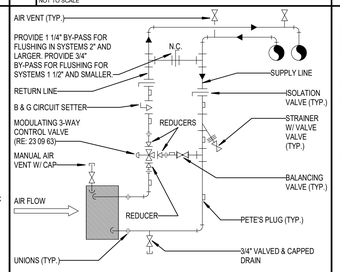


1 DUAL DUCT MIXING BOX DETAIL
NOT TO SCALE



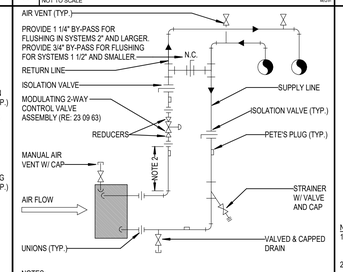
NOTE:
1. MAINTAIN MINIMUM 1" AIR GAP AT FLOOR DRAIN OR ROOF DRAIN.
2. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

10 COOLING COIL CONDENSATE DRAIN
NOT TO SCALE



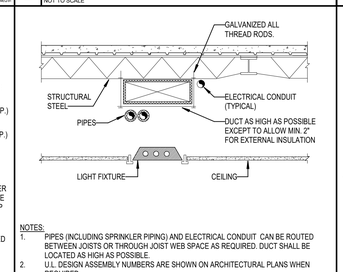
NOTE: INSTALL 3-WAY CONTROL VALVE ORIENTATION PER MFGR. INSTALLATION INSTRUCTIONS

9 3-WAY CONTROL VALVE AND COIL PIPING
NOT TO SCALE



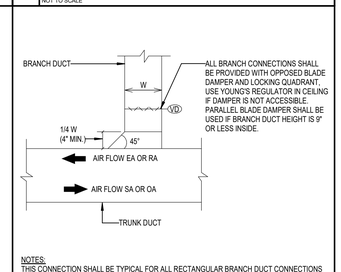
NOTES:
1. INSTALL 2-WAY CONTROL VALVE ORIENTATION PER MFGR. INSTALLATION INSTRUCTIONS.
2. PROVIDE STRAIGHT PIPE LENGTH 5 TIMES NOMINAL PIPE DIA. UPSTREAM OF CTRL. VALVE.

8 2-WAY CONTROL VALVE AND COIL PIPING
NOT TO SCALE



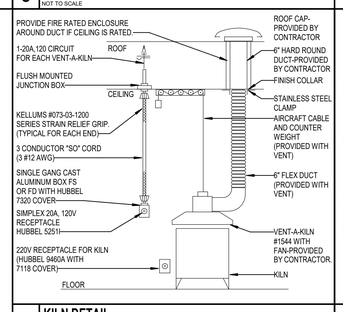
NOTES:
1. PIPES (INCLUDING SPRINKLER PIPING) AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

7 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE

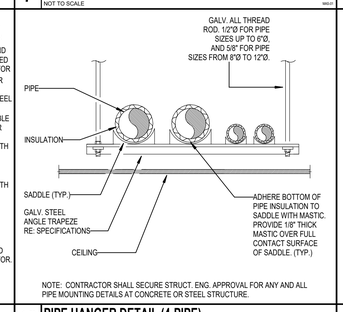


NOTES:
THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

6 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE

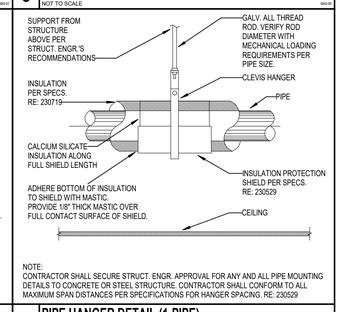


13 KILN DETAIL
NOT TO SCALE



NOTE: CONTRACTOR SHALL SECURE STRUCT. ENG. APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS AT CONCRETE OR STEEL STRUCTURE.

12 PIPE HANGER DETAIL (4-PIPE)
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

11 PIPE HANGER DETAIL (1-PIPE)
NOT TO SCALE

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - MECHANICAL SCHEDULES & DETAILS

SHEET NO.
M15.02

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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
NIR	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

- $_M — MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- (5) — 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
- [B] — 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, "N#" 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.
- [P] — 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 LIFE SAFETY BRANCH CIRCUIT, GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL LIFE SAFETY LIGHTING ORIGINATING FROM THE LIFE SAFETY 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

- [F] — 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 - "S#" 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

- 5 — SUB PANEL
- DP — AREA
- C — VOLTAGE: H: 480Y/277V; L: 208Y/120V
- H — BRANCH: NONE: NORMAL; E: LIFE SAFETY; Q: EQUIPMENT; C: CRITICAL; R: LEGALLY REQUIRED; X: OPTIONAL STAND-BY
- A — DISTRIBUTION PANEL (IF APPLICABLE)
- 1 — LEVEL

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS — WILLIAM MEISTER — 101184 — LICENSED PROFESSIONAL ENGINEER — 11/14/24

ISSUED: 11/14/2024

REVISIONS

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Director	Drawn By
Approver	DBR
Designer	Quality Control
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Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - ELECTRICAL SYMBOL LEGEND

SHEET NO.
E10.00

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DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS

GENERAL LIGHTING DEMOLITION NOTES

A. ALL FIXTURES REMOVED AND REINSTALL SHALL BE CLEANED PRIOR TO REINSTALLATION.

B. ALL EXISTING SWITCHING ZONES SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHER ON PLANS.

C. ALL LIGHT CIRCUIT 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 CONDUIT AND BOXES AS NEEDED.

D. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 80% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.

E. ALL REMOVED AND REINSTALLED LIGHT FIXTURES MUST 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.

F. ALL EXISTING INTERCOM/SPEAKERS SHALL BE REMOVED AND REINSTALLED AS REQUIRED TO FACILITATE RENOVATION. SUBJECT TO EXISTING EQUIPMENT OPERATION CONDITION VERIFICATION.

GENERAL DEMOLITION SCOPE 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 VERIFY AND DOCUMENT EXISTING CONDITIONS OF ALL OUTLETS (AS DEFINED BY NEC) THAT ARE INDICATED OR REQUIRED TO BE REMOVED AND REINSTALLED TO FACILITATE THE WORK REQUIRED BY ALL TRADES. WHERE OUTLETS ARE REINSTALLED IN NON-OPERABLE CONDITION, THE CONTRACTOR SHALL REPLACE AT NO COST TO THE OWNER. DOCUMENT OUTLETS IN NON-WORKING CONDITION PRIOR TO REMOVE AND NOTIFY THE OWNER.

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 RECEPTACLES, SWITCHES, DATA/TELEPHONE DROPS, FIRE ALARM DEVICES, PA DEVICES, CONDUIT, AND WIRING. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX. 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. REFERENCE FIRE ALARM GENERAL NOTES FOR ASSOCIATED FIRE ALARM SCOPE OF WORK.

F. ALL ABANDONED CONDUIT AND BOXES FOUND IN CRAWLSPACES, CEILINGS SPACES, CHASES, OR UTILITY SPACES SHALL BE REMOVED. ANY EXISTING CONDUIT THAT IS UNDERGROUND MAY BE ABANDONED.

G. CONTRACTOR SHALL REVIEW DEMO AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

GENERAL POWER DEMOLITION NOTES:

A. GENERAL DEMOLITION NOTES APPLY TO ALL DEMO/REMODELING SCOPE.

B. WHEN OUTLETS ARE ABANDONED, WIRE MUST BE PULLED OUT OF THE CONDUIT BACK TO THE NEAREST REMAINING BOX OR CABINET. EXPOSED CONDUIT THAT HAS BEEN ABANDONED MUST BE REMOVED.

C. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED DUE TO REMODELING WORK.

D. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.

E. EXISTING CIRCUITS MODIFIED IN FIELD SHALL NOT EXCEED 80% CAPACITY BASED ON AMP-RATING OF CIRCUIT.

F. DO NOT LEAVE ABANDONED CONDUIT, BOXES, EQUIPMENT, OR ENCLOSURES AFTER DEMOLITION. ALL ABANDONED MATIERAL MUST BE REMOVED.

G. IDENTIFICATION AND LABELING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS AND/OR NEW-WORK GENERAL ELECTRICAL NOTES.

H. 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.

I. EXISTING CIRCUIT BREAKERS VACATED DUE TO REMODELING WORK SHALL REMAIN AS SPARE BREAKERS AND TURNED TO THE 'OFF' POSITION.

J. 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 BACK TO LAST ACTIVE JUNCTION AND SALVAGED FOR REINSTALLATION.

EMER. LIGHTING GENERAL NOTES:

A. 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 GTD DEVICE. REFER TO GTD WIRING DIAGRAM ON SHEET XXX FOR ADDITIONAL INFORMATION.

B. ALL EMERGENCY LIGHT FIXTURE GENERATOR TRANSFER DEVICES SHALL BE CONNECTED TO THE EMERGENCY EGRESS LIGHTING CIRCUIT INDICATED ON DRAWINGS. ALL EMERGENCY WIRING SHALL BE ROUTED IN A SEPARATE CONDUIT.

GENERAL ELECTRICAL NOTES:

A. ELECTRICAL DEVICES 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 FOR ALL DIV. 21/22/23 EQUIPMENT.

D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

E. MINIMIZE ROOF PENETRATIONS. 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.

G. MULTI-WIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING.

H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR MAY PROVIDE NON-TAMPER-RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406

I. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - ELECTRICAL GENERAL NOTES

SHEET NO.

E10.01

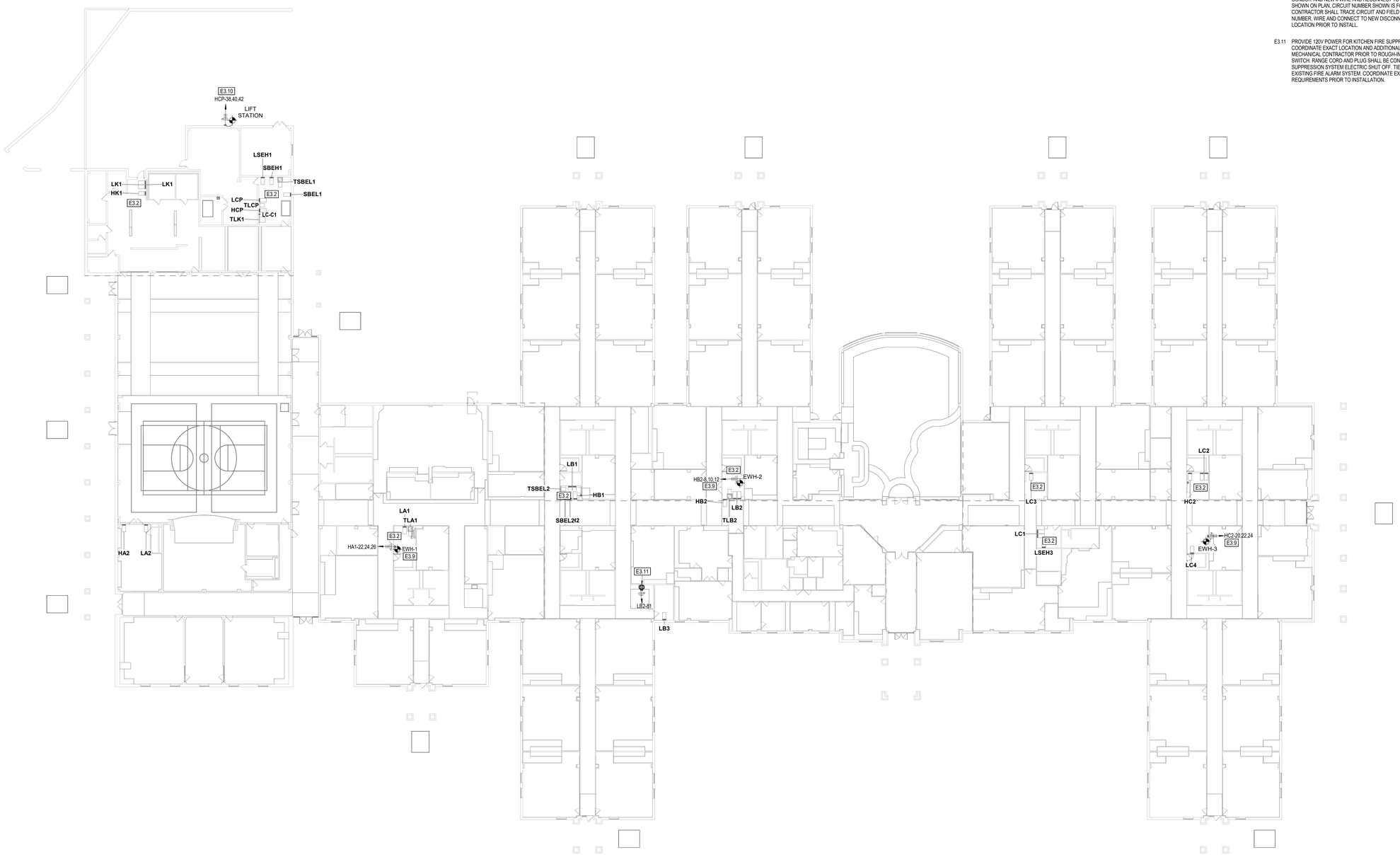
ELECTRICAL KEYED NOTES

E3.2 ELECTRICAL EQUIPMENT IN THIS ROOM SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ELECTRICAL EQUIPMENT.

E3.9 REPLACE ELECTRIC WATER HEATER. TRACE CIRCUIT AND FIELD VERIFY EXACT CIRCUIT NUMBER, WIRE AND CONNECT TO NEW DISCONNECT SWITCH. COORDINATE WITH DIVISION 21 PRIOR TO WORK.

E3.10 REPLACE LIFT STATION. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. REMOVE ALL WIRE BACK TO PANEL. PROVIDE NEW CONDUIT AND NEW # WIRE AND RECONNECT TO EXISTING CIRCUIT. WHERE SHOWN ON PLAN, CIRCUIT NUMBER SHOWN IS FOR REFERENCE ONLY, CONTRACTOR SHALL TRACE CIRCUIT AND FIELD VERIFY EXACT CIRCUIT NUMBER. WIRE AND CONNECT TO NEW DISCONNECT. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALL.

E3.11 PROVIDE 120V POWER FOR KITCHEN FIRE SUPPRESSION SYSTEM. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE MOTOR RATED SWITCH. RANGE CORD AND PLUG SHALL BE CONNECTED VIA FIRE SUPPRESSION SYSTEM ELECTRIC SHUT OFF. TIE SYSTEM WITH BUILDING'S EXISTING FIRE ALARM SYSTEM. COORDINATE EXACT ELECTRICAL REQUIREMENTS PRIOR TO INSTALLATION.



1 E12.11 **COMPOSITE POWER PLAN - LEVEL ONE**
1" = 20'-0"

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

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Approver	DBR
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Designer	
Proj. Arch.	
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PROJECT NO.
24-046.00

SHEET TITLE
FAPE - COMPOSITE POWER PLAN - LEVEL ONE

SHEET NO.
E12.11

CCISD Priority Repairs - FAPE GOFE ROBE

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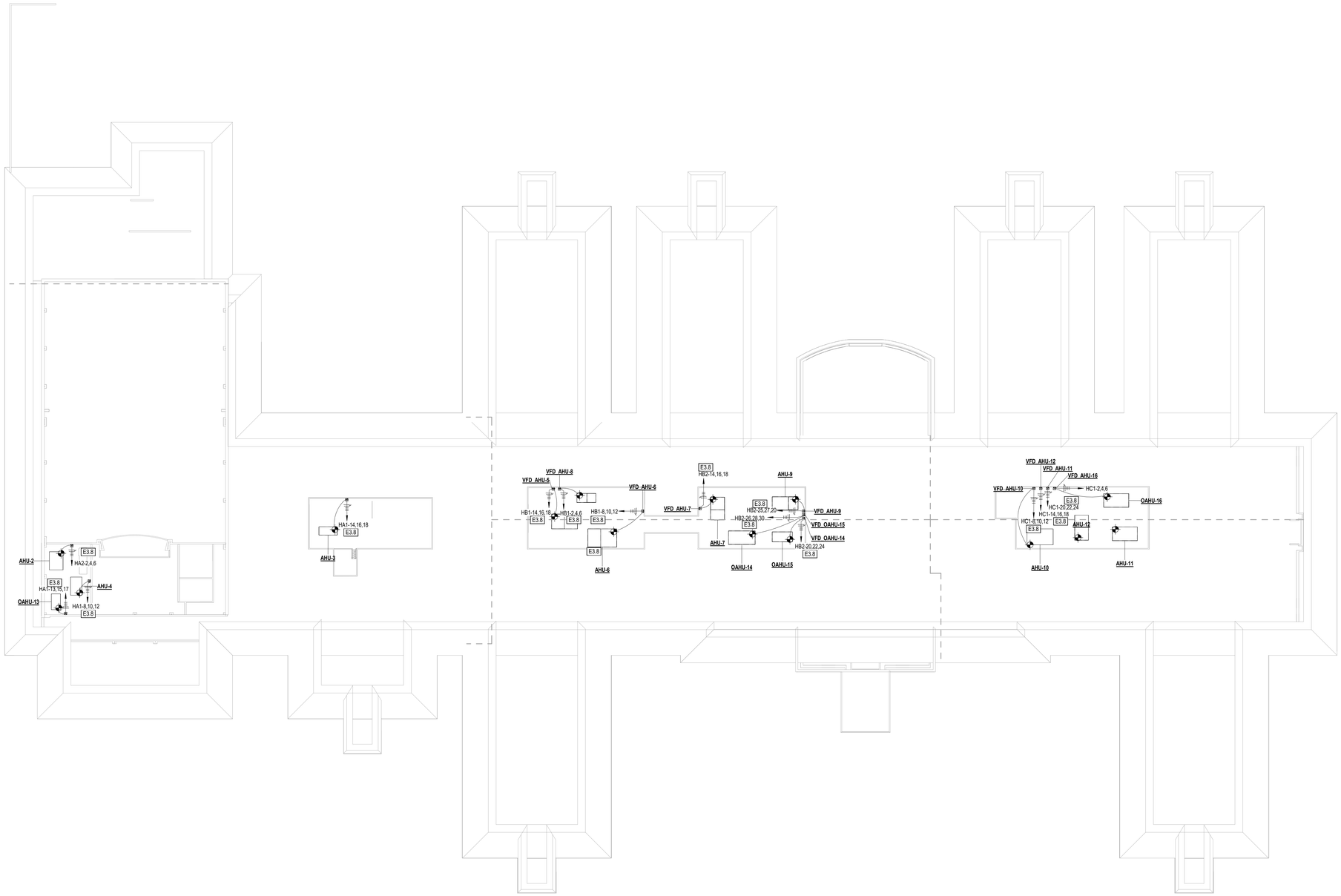
ELECTRICAL KEYED NOTES

E3.8 REPLACE AIR HANDLING UNIT. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. REMOVE ALL WIRE BACK TO PANEL. PROVIDE NEW CONDUIT AND NEW # WIRE AND RECONNECT TO EXISTING CIRCUIT. WHERE SHOWN ON PLAN, CIRCUIT NUMBER SHOWN IS FOR REFERENCE ONLY, CONTRACTOR SHALL TRACE CIRCUIT AND FIELD VERIFY EXACT CIRCUIT NUMBER. WIRE AND CONNECT THROUGH VFD PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26. COORDINATE WITH DIVISION 23 PRIOR TO WORK.



1 E12.21 **COMPOSITE POWER PLAN - LEVEL TWO**

1" = 20'-0"

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
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PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

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Designer	
Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - COMPOSITE POWER PLAN - LEVEL TWO

SHEET NO.

E12.21

CCISD Priority Repairs - FAPE GOFE ROBE

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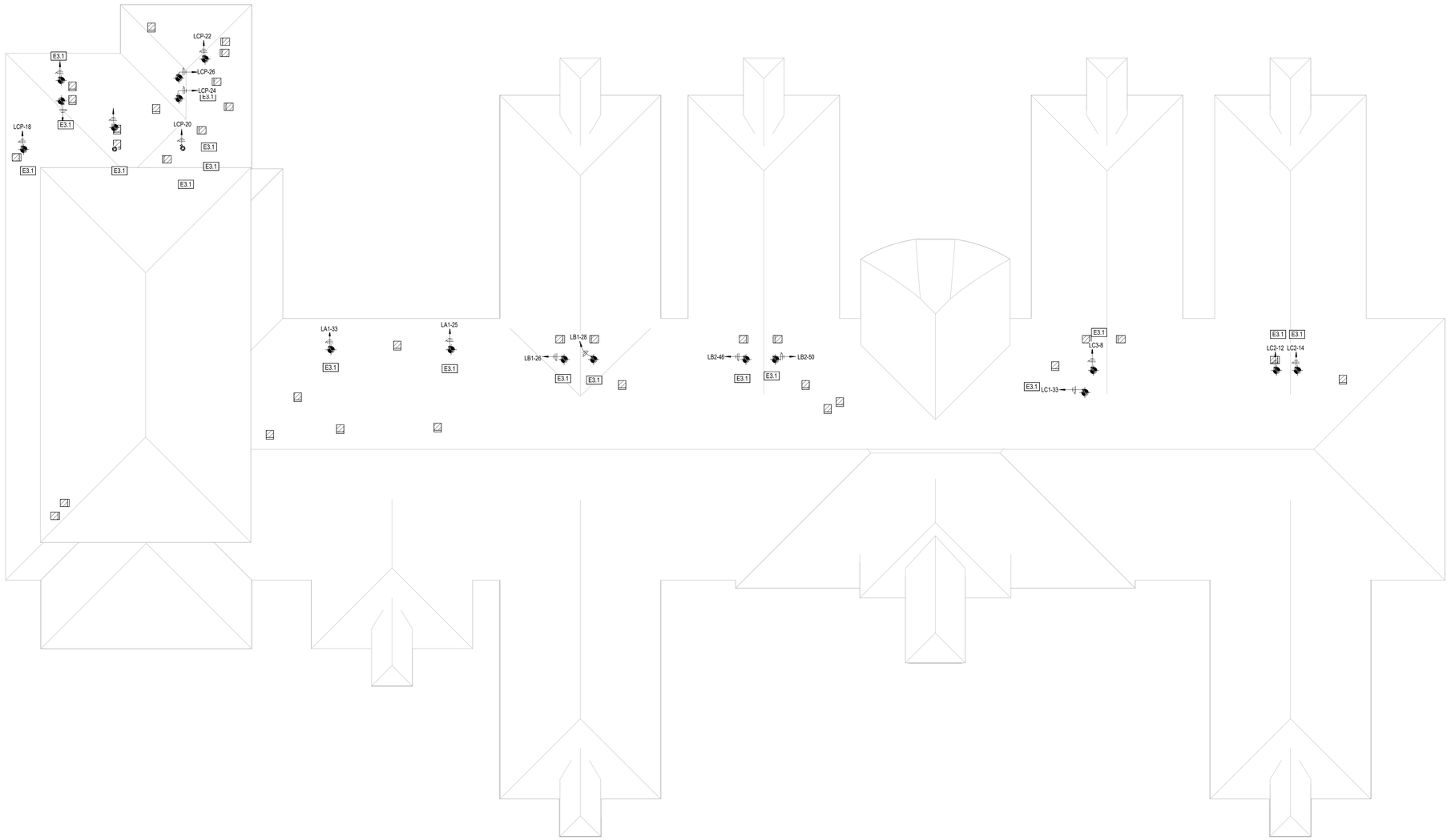
ELECTRICAL KEYED NOTES

E3.1 REPLACE EXHAUST FAN. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. REMOVE ALL WIRE BACK TO PANEL. PROVIDE NEW CONDUIT AND NEW # WIRE AND RECONNECT TO EXISTING CIRCUIT. WHERE SHOWN ON PLAN, CIRCUIT NUMBER SHOWN IS FOR REFERENCE ONLY, CONTRACTOR SHALL TRACE CIRCUIT AND FIELD VERIFY EXACT CIRCUIT NUMBER. WIRE AND CONNECT TO NEW DISCONNECT PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26. COORDINATE WITH DIVISION 23 PRIOR TO WORK.



1 E15.11 **ELECTRICAL ROOF PLAN**
1" = 20'-0"

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HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

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Approver	DBR
Designer	Quality Control
Designer	
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DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - ELECTRICAL ROOF PLAN

SHEET NO.
E15.11

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DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS

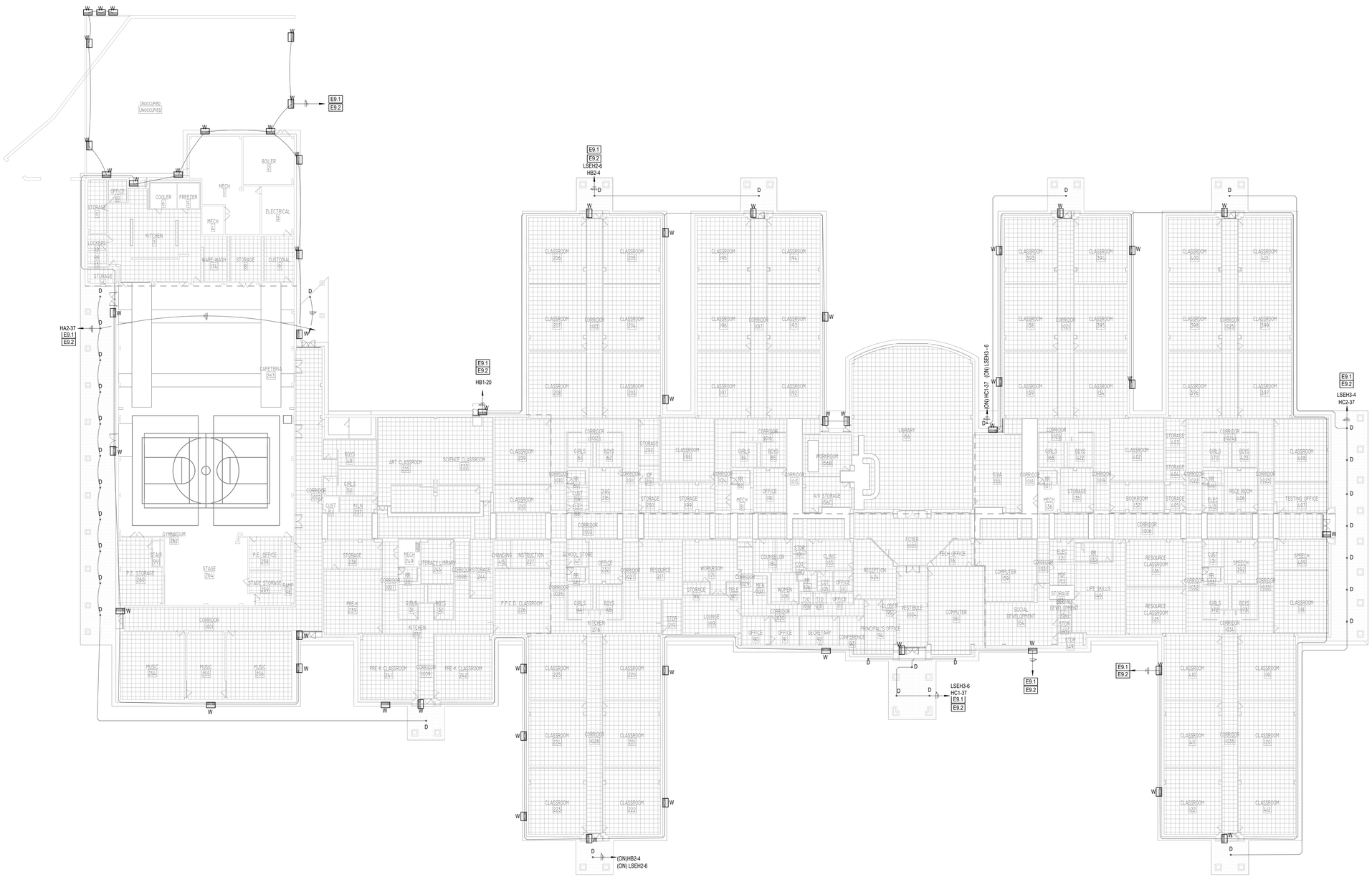
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	MOUNTING	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
D	KIRLIN	LKS-08074-6500L-277-X-80CRI-D1	RECESSED	LED	277 V	74 VA	8" SQUARE UPGRADE KIT EXTERIOR DOWNLIGHT
W	GARDCO	101L-32L-530-NW-G1-2-UNV-CS50-FINISH	SURFACE	LED	277 V	24 VA	EXTERIOR WALL PACK

ELECTRICAL KEYED NOTES

E9.1 EXISTING LIGHT FIXTURES SHALL BE REMOVED AND REPLACED WITH NEW. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. PROVIDE NEW WIRE. RE-USE EXISTING CONDUIT WHERE POSSIBLE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF LIGHT FIXTURES.

E9.2 ROUTE CIRCUIT VIA BODINE UL1008 GTD 20A GENERATOR TRANSFER DEVICE. LOCATE GTD ADJACENT TO EMERGENCY PANEL SERVING EMERGENCY LIGHTING CIRCUIT. CONNECT NORMAL AND EMERGENCY CIRCUIT POWER TO CIRCUITS INDICATED ON PLANS. ROUTE NORMAL CIRCUIT THROUGH LIGHTING CONTACTOR. TYPICAL FOR ALL EXTERIOR LIGHTING CIRCUITS.



1 E16.11 **COMPOSITE ELECTRICAL LIGHTING PLAN - LEVEL ONE**
1" = 20'-0"

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CCISD PROJECT NO:
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KEY PLAN

STATE OF TEXAS
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11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
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PROJECT NO.
24-046.00

SHEET TITLE
FAPE - COMPOSITE LIGHTING PLAN - LEVEL ONE

SHEET NO.
E16.11

CCISD Priority Repairs - FAPE GOFE ROBOTICS

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Panelboard LA1

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
2 Section
1 -Nema Rating

X MCB 150 AMP MCB
MLO 225 AMP BUS (Copper)

Single
X Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	1440	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	1260	1
1	720	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	720	1
1	1080	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	19	A	20	50/2	8	K	EXISTING CIRCUIT	3600	1
1	1080	EXISTING CIRCUIT	R	12	20/1	21	B	22	50/2	8	K	-	3600	
1	1080	EXISTING CIRCUIT	R	12	20/1	23	C	24				SPACE		
2	**700**	**EF-2 (1/4) HP**	F	12	15/1	25	A	26	40/3	8	M	EXISTING CIRCUIT	3667	1
1	1000	EXISTING CIRCUIT	R	12	15/1	27	B	28	40/3	8	M	-	3667	
1	150	EXISTING CIRCUIT	F	12	15/1	29	C	30	40/3	8	M	-	3667	
1	325	EXISTING CIRCUIT	M	12	15/1	31	A	32	20/1	12	R	EXISTING CIRCUIT	720	1
2	**700**	**EF-1 (1/4 HP)**	F	12	15/1	33	B	34	20/1	12	R	EXISTING CIRCUIT	720	1
1	600	EXISTING CIRCUIT	F	12	15/1	35	C	36	20/1	12	R	EXISTING CIRCUIT	360	1
1	600	EXISTING CIRCUIT	F	12	15/1	37	A	38				SPACE		
1	360	EXISTING CIRCUIT	R	12	20/1	39	B	40	15/1	12	M	EXISTING CIRCUIT	300	1
1	560	EXISTING CIRCUIT	R	12	20/1	41	C	42	20/1	12	R	EXISTING CIRCUIT	540	1
1	360	EXISTING CIRCUIT	R	12	20/1	43	A	44	15/1	12	M	EXISTING CIRCUIT	325	1
1	1500	EXISTING CIRCUIT	R	12	20/1	45	B	46	20/1	12	R	EXISTING CIRCUIT	900	1
		SPARE		12	20/1	47	C	48	20/1	12	R	EXISTING CIRCUIT	360	1
1	900	EXISTING CIRCUIT	R	12	20/1	49	A	50	20/1	12	R	EXISTING CIRCUIT	600	1
1	300	EXISTING CIRCUIT	R	12	20/1	51	B	52				SPACE		
1	300	EXISTING CIRCUIT	R	12	20/1	53	C	54				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	55	A	56	30/3	10	M	EXISTING CIRCUIT	0	1
1	180	EXISTING CIRCUIT	R	12	20/1	57	B	58	30/3	10	M	-	0	1
1	540	EXISTING CIRCUIT	R	12	20/1	59	C	60	30/3	10	M	-	0	1
1	180	EXISTING CIRCUIT	R	12	20/1	61	A	62				SPACE		
1	540	EXISTING CIRCUIT	R	12	20/1	63	B	64				SPACE		
1	100	EXISTING CIRCUIT	R	12	20/1	65	C	66				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	67	A	68				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	69	B	70				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	71	C	72				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	73	A	74				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	75	B	76				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	77	C	78				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	79	A	80				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	81	B	82				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	83	C	84				SPACE		
	30,415	Subtotal										Subtotal	32,386	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	40,900		25,450	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	7,200	100%	7,200		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	2,750	100%	2,750	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	11,951	100%	11,951		(SP) Sub Panel	0	100%	0

Total Connected Load = 62,801 VA = 174.4 AMPS
Total Load (Diversified)= 47,351 VA = 131.5 AMPS

Location of Panel:

Panelboard LB1

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
2 Section
1 -Nema Rating

X MCB 225 AMP MCB
MLO 225 AMP BUS (Copper)

Single
Double
X Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT		12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT		12	20/1	3	B	4	20/1	12	M	EXISTING CIRCUIT	325	1
1	1080	EXISTING CIRCUIT		12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	360	1
1	720	EXISTING CIRCUIT		12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	360	1
1	1080	EXISTING CIRCUIT		12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT		12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	720	1
1	720	EXISTING CIRCUIT		12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	200	1
1	1080	EXISTING CIRCUIT		12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT		12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT		12	20/1	19	A	20	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT		12	20/1	21	B	22	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT		12	20/1	23	C	24	20/1	12	R	EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT		12	20/1	25	A	26	15/1	12	F	**EF-3 (1/4HP)**	700	**2**
1	1080	EXISTING CIRCUIT		12	20/1	27	B	28	15/1	12	F	**EF-4 (1/4 HP)**	700	**2**
1	1080	EXISTING CIRCUIT		12	20/1	29	C	30	20/1	12	R	EXISTING CIRCUIT	360	1
1	720	EXISTING CIRCUIT		12	20/1	31	A	32	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT		12	20/1	33	B	34	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT		12	20/1	35	C	36	20/1	12	R	EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT		12	20/1	37	A	38	100/3	3	SP	EXISTING CIRCUIT	8470	1
1	1080	EXISTING CIRCUIT		12	20/1	39	B	40	100/3	3	SP	-	14020	
1	1080	EXISTING CIRCUIT		12	20/1	41	C	42	100/3	3	SP	-	12215	
1	1080	EXISTING CIRCUIT		12	20/1	43	A	44	30/3	10	P	EXISTING CIRCUIT	0	1
1	1080	EXISTING CIRCUIT		12	20/1	45	B	46	30/3	10	M	-	0	
1	500	EXISTING CIRCUIT		12	20/1	47	C	48	30/3	10	M	-	0	
1	720	EXISTING CIRCUIT		12	20/1	49	A	50				SPARE		
1	1080	EXISTING CIRCUIT		12	20/1	51	B	52	20/1	12		EXISTING CIRCUIT	500	1
1	1080	EXISTING CIRCUIT		12	20/1	53	C	54	20/1	12		EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT		12	20/1	55	A	56	20/1	12		EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT		12	20/1	57	B	58	20/1	12		EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT		12	20/1	59	C	60	20/1	12		EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT		12	20/1	61	A	62	20/1	12		EXISTING CIRCUIT	900	1
		SPACE				63	B	64	20/1	12		EXISTING CIRCUIT	900	1
		SPACE				65	C	66				SPACE		
		SPACE				67	A	68				SPACE		
		SPACE				69	B	70				SPACE		
		SPACE				71	C	72				SPACE		
		SPACE				73	A	74				SPACE		
		SPACE				75	B	76				SPACE		
		SPACE				77	C	78				SPACE		
		SPACE				79	A	80				SPACE		
		SPACE				81	B	82				SPACE		
		SPACE				83	C	84				SPACE		
	29,480	Subtotal										Subtotal	53,690	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	11,180		10,590	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	1,400	100%	1,400	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	325	100%	325		(SP) Sub Panel	34,705	100%	34,705

Total Connected Load = 47,610 VA = 132.3 AMPS
Total Load (Diversified)= 47,020 VA = 130.6 AMPS

Location of Panel:

Panelboard LB2

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
2 Section
1 -Nema Rating

X MCB 150 AMP MCB
MLO 225 AMP BUS (Copper)

Single
X Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	M	EXISTING CIRCUIT	1500	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	1440	1
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	M	EXISTING CIRCUIT	500	1
1	1080	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	1800	1
1	720	EXISTING CIRCUIT	R	12	20/1	19	A	20	20/1	12	R	EXISTING CIRCUIT	1440	1
1	1080	EXISTING CIRCUIT	R	12	20/1	21	B	22	20/1	12	R	EXISTING CIRCUIT	1620	1
1	1080	EXISTING CIRCUIT	R	12	20/1	23	C	24	20/1	12	R	EXISTING CIRCUIT	1260	1
1	720	EXISTING CIRCUIT	R	12	20/1	25	A	26	20/1	12	R	EXISTING CIRCUIT	1440	1
1	1080	EXISTING CIRCUIT	R	12	20/1	27	B	28	20/1	12	R	EXISTING CIRCUIT	1440	1
1	1080	EXISTING CIRCUIT	R	12	20/1	29	C	30	20/1	12	R	EXISTING CIRCUIT	1440	1
1	720	EXISTING CIRCUIT	R	12	20/1	31	A	32	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	33	B	34	20/1	12	R	EXISTING CIRCUIT	540	1
1	1080	EXISTING CIRCUIT	R	12	20/1	35	C	36	20/1	12	R	EXISTING CIRCUIT	720	1
1	720	EXISTING CIRCUIT	R	12	15/1	37	A	38	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	39	B	40	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	41	C	42	20/1	12	R	EXISTING CIRCUIT	1080	1
1	500	EXISTING CIRCUIT	M	12	20/1	43	A	44	20/1	12	R	EXISTING CIRCUIT	1080	1
1	360	EXISTING CIRCUIT	R	12	20/1	45	B	46	15/1	12	F	**EF-6 (1/4 HP)**	700	**2**
1	1440	EXISTING CIRCUIT	R	12	20/1	47	C	48	15/1	12	M	EXISTING CIRCUIT	3255	1
1	1080	EXISTING CIRCUIT	R	12	20/1	49	A	50	15/1	12	F	**EF-5 (1/4 HP)**	700	**2**
1	900	EXISTING CIRCUIT	R	12	20/1	51	B	52	30/2	10	M	SPARE		
1	720	EXISTING CIRCUIT	R	12	20/1	53	C	54	30/2	10	M	-		
1	540	EXISTING CIRCUIT	R	12	20/1	55	A	56	20/1	12	R	EXISTING CIRCUIT	900	1
1	1440	EXISTING CIRCUIT	R	12	20/1	57	B	58	20/1	12	R	EXISTING CIRCUIT	1080	1
1	200	EXISTING CIRCUIT	R	12	20/1	59	C	60	20/1	12	R	EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT	R	12	20/1	61	A	62	30/3	10	M	EXISTING CIRCUIT	0	1
1	500	EXISTING CIRCUIT	R	12	20/1	63	B	64	30/3	10	M	-	0	
1	500	EXISTING CIRCUIT	R	12	20/1	65	C	66	30/3	10	M	-	0	
1	500	EXISTING CIRCUIT	M	12	20/1	67	A	68	15/1	12	M	EXISTING CIRCUIT	325	1
1	900	EXISTING CIRCUIT	R	12	20/1	69	B	70	20/1	12	M	EXISTING CIRCUIT	1500	1
1	1080	EXISTING CIRCUIT	R	12	20/1	71	C	72	20/1	12	R	EXISTING CIRCUIT	360	1
1	1080	EXISTING CIRCUIT	R	12	20/1	73	A	74	20/1	12	R	EXISTING CIRCUIT	180	1
1	900	EXISTING CIRCUIT	R	12	20/1	75	B	76	20/1	12	R	EXISTING CIRCUIT	720	1
1	720	EXISTING CIRCUIT	R	12	20/1	77	C	78	20/1	12	R	EXISTING CIRCUIT	1080	1
1	900	EXISTING CIRCUIT	R	12	20/1	79	A	80	20/1	12	R	EXISTING CIRCUIT	1080	1
3	**500**	**FIRE SUPRESSION**	**M**	**12**	**20/1**	81	B	82				SPACE		
		SPACE				83	C	84				SPACE		
	35,640	Subtotal										Subtotal	38,540	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	64,200		37,100	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	1,400	100%	1,400	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	8,580	100%	8,580		(SP) Sub Panel	0	100%	0

Total Connected Load = 74,180 VA = 206.1 AMPS
Total Load (Diversified)= 47,080 VA = 130.8 AMPS

Location of Panel:

PANEL SCHEDULE GENERAL NOTES:

A. ALL CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY AVAILABILITY OF BREAKERS AFTER DEMOLITION. CONTRACTOR SHALL UTILIZE EXISTING SPARE BREAKERS AFTER DEMOLITION. CONTRACTOR SHALL UTILIZE EXISTING SPARE BREAKERS. PROVIDE ALTERNATE PRICING FOR ADDITIONAL 100A PANEL IF REQUIRED DUE TO LACK OF SPACE.

PANEL SCHEDULE NOTES:

1. EXISTING LOAD SHALL REMAIN.
2. CONNECT NEW BRANCH CIRCUIT TO EXISTING SPARE BREAKER.
3. REPLACE EXISTING SPACE WITH NEW BREAKER INDICATED.
4. REPLACE EXISTING BREAKER WITH NEW BREAKER INDICATED.

Panelboard LC1

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
2 Section
1 -Nema Rating

X MCB 225 AMP MCB
MLO 225 AMP BUS (Copper)

Single
X Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	180	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	1080	1
1	180	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	1080	1
1	180	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	1080	1
1	180	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	1080	1
1	180	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	1080	1
1	180	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1440	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1620	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1000	EXISTING CIRCUIT	R	12	20/1	19	A	20	20/1	12	R	EXISTING CIRCUIT	1080	1
1	540	EXISTING CIRCUIT	R	12	20/1	21	B	22	20/1	12	R	EXISTING CIRCUIT	1080	1
1	540	EXISTING CIRCUIT	R	12	20/1	23	C	24	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1260	EXISTING CIRCUIT	R	12	20/1	25	A	26	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	27	B	28	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	29	C	30	20/1	12	R	EXISTING CIRCUIT	1080	1
1	300	EXISTING CIRCUIT	M	12	20/1	31	A	32	20/1	12	R	EXISTING CIRCUIT	1080	1
4	**700**	**EF-10 (3/4 HP)**	**F**	**10**	**25/1**	33	B	34	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1200	EXISTING CIRCUIT	R	12	20/1	35	C	36	20/1	12	R	EXISTING CIRCUIT	1080	1
	0		M	10	30/3	37	A	38	20/1	12	R	EXISTING CIRCUIT	1080	1
	0		M	10	30/3	39	B	40	20/1	12	R	EXISTING CIRCUIT	1080	1
	0		M	10	30/3	41	C	42	20/1	12	R	EXISTING CIRCUIT	720	1
1	2400	EXISTING CIRCUIT	M	10	30/2	43	A	44				SPARE		
1	2400	-	M	10	30/2	45	B	46	20/1	12			1080	
1	500	EXISTING CIRCUIT	M	12	20/1	47	C	48	20/1	12				
1	500	EXISTING CIRCUIT	M	12	20/1	49	A	50				SPACE		
1	850	EXISTING CIRCUIT	M	12	20/1	51	B	52	20/1	12				
1	1500	EXISTING CIRCUIT	M	12	20/1	53	C	54	20/1	12				
1	1500	EXISTING CIRCUIT	K	12	20/1	55	A	56				SPACE		
1	1200	EXISTING CIRCUIT	K	12	20/1	57	B	58				SPACE		
1	3600	EXISTING CIRCUIT	K	8	50/2	59	C	60				SPACE		
1	3600	EXISTING CIRCUIT	K	8	50/2	61	A	62	20/1	12	R	EXISTING CIRCUIT	900	1
1	1200	EXISTING CIRCUIT	K	12	20/1	63	B	64				SPACE		
1	1500	EXISTING CIRCUIT	K	12	20/1	65	C	66				SPACE		
1	1200	EXISTING CIRCUIT	K	12	20/1	67	A	68				SPACE		
		SPACE				69	B	70				SPACE		
		SPACE				71	C	72				SPACE		
		SPACE				73	A	74				SPACE		
		SPACE				75	B	76				SPACE		
		SPACE				77	C	78				SPACE		
		SPACE				79	A	80	100/3	3	SP	EXISTING CIRCUIT	6280	1
		SPACE				81	B	82	100/3	3	SP		8605	1
		SPACE				83	C	84	100/3	3	SP		9360	1
	34,510	Subtotal										Subtotal	48,545	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	34,780		22,390	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	13,800	65%	8,970		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	700	100%	700	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	8,450	100%	8,450		(SP) Sub Panel	24,245	100%	24,245

Total Connected Load = 81,975 VA = 227.7 AMPS
Total Load (Diversified)= 64,755 VA = 179.9 AMPS

Location of Panel:

Panelboard LC2

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
2 Section
1 -Nema Rating

X MCB 225 AMP MCB
MLO 225 AMP BUS (Copper)

Single
X Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	1085	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	15/1	12	M	EXISTING CIRCUIT	325	1
1	1080	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	720	1
1	720	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	720	1
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	1260	1
1	1080	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	F	**EF-8 (1/4HP)**	700	**2**
1	720	EXISTING CIRCUIT	R	12	20/1	13	A	14	15/1	12	F	**EF-9 (1/4 HP)**	700	**2**
1	1080	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT	R	12	20/1	19	A	20	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	21	B	22				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	23	C	24				SPACE		
1	720	EXISTING CIRCUIT	R	12	20/1	25	A	26				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	27	B	28				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	29	C	30				SPACE		
1	720	EXISTING CIRCUIT	R	12	20/1	31	A	32	20/1	12	M	EXISTING CIRCUIT	0	1
1	1080	EXISTING CIRCUIT	R	12	20/1	33	B	34	20/1	12	M	-	0	
1	1080	EXISTING CIRCUIT	R	12	20/1	35	C	36	20/1	12	M	-	0	
1	720	EXISTING CIRCUIT	R	12	20/1	37	A	38	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	39	B	40	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	41	C	42	20/1	12	R	EXISTING CIRCUIT		1
1	900	EXISTING CIRCUIT		12	20/1	43	A	44				SPACE		
1	1080	EXISTING CIRCUIT		12	20/1	45	B	46				SPACE		
1	1080	EXISTING CIRCUIT		12	20/1	47	C	48				SPACE		
1	900	EXISTING CIRCUIT		12	20/1	49	A	50				SPACE		
1	1080	EXISTING CIRCUIT		12	20/1	51	B	52				SPACE		
1	1080	EXISTING CIRCUIT		12	20/1	53	C	54				SPACE		
1	720	EXISTING CIRCUIT		12	20/1	55	A	56				SPACE		
		SPACE				57	B	58				SPACE		
		SPACE				59	C	60				SPACE		
		SPACE				61	A	62				SPACE		
		SPACE				63	B	64				SPACE		
		SPACE				65	C	66				SPACE		
		SPACE				67	A	68				SPACE		
		SPACE				69	B	70				SPACE		
		SPACE				71	C	72				SPACE		
		SPACE				73	A	74				SPACE		
		SPACE				75	B	76				SPACE		
		SPACE				77	C	78				SPACE		
		SPACE				79	A	80				SPACE		
		SPACE				81	B	82				SPACE		
		SPACE				83	C	84				SPACE		
	27,000	Subtotal										Subtotal	10,010	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	28,445		19,223	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	1,400	100%	1,400	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	325	100%	325		(SP) Sub Panel	0	100%	0

Total Connected Load = 30,170 VA = 83.8 AMPS
Total Load (Diversified)= 20,948 VA = 58.2 AMPS

Location of Panel:

Panelboard LC3

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB XXX AMP MCB
X MLO 100 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	540	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	325	1
1	1080	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	F	**EF-7 (1/4HP)**	700	**2**
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12		EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12		SPARE		
1	720	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	19	A	20	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	21	B	22	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	23	C	24	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	25	A	26	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	27	B	28	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	29	C	30	20/1	12		EXISTING CIRCUIT		1
1	720	EXISTING CIRCUIT	R	12	20/1	31	A	32				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	33	B	34				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	35	C	36				SPACE		
1	720	EXISTING CIRCUIT	R	12	20/1	37	A	38				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	39	B	40				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	41	C	42				SPACE		
	20,160	Subtotal										Subtotal	11,645	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	30,205		20,103	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	700	100%	700	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 30,905 VA = 85.8 AMPS
Total Load (Diversified)= 20,803 VA = 57.8 AMPS

Location of Panel:

Panelboard LCP

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 100 AMP MCB
MLO 100 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT	R	12	20/1	1	A	2	30/2	10	M	EXISTING CIRCUIT	2400	1
1	360	EXISTING CIRCUIT	R	12	20/1	3	B	4	30/2	10	M	-	2400	1
1	900	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	1500	1
1	900	EXISTING CIRCUIT	R	12	20/1	7	A	8	15/1	12	F	EXISTING CIRCUIT	144	1
1	540	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	H	EXISTING CIRCUIT	600	1
1	720	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	WH	EXISTING CIRCUIT	600	1
1	600	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	180	1
1	600	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	M	EXISTING CIRCUIT	1000	1
1	600	EXISTING CIRCUIT	R	12	20/1	17	C	18	15/1	12	F	**EF-15 (1/6 HP)**	700	**2**
1	500	EXISTING CIRCUIT	R	12	20/1	19	A	20	15/1	12	F	**EF-14 (1/4 HP)**	700	**2**
1	1080	EXISTING CIRCUIT	R	12	20/2	21	B	22	30/1	10	F	**EF-13 (1 HP)**	700	**4**
		-		12	20/2	23	C	24	40/1	8	F	**EF-12 (1 1/2 HP)**	1660	**4**
		-		12	20/1	25	A	26	25/1	10	F	**EF-11 (3/4 HP)**	1176	**4**
1	300	EXISTING CIRCUIT		12	20/1	27	B	28	20/2	12	M	EXISTING CIRCUIT	200	1
				12	20/1	29	C	30	20/2	12	M	-		
	0	EXISTING CIRCUIT	M	10	30/3	31	A	32	20/1	12	R	EXISTING CIRCUIT	720	1
	0	-	M	10	30/3	33	B	34	20/1	12	M	EXISTING CIRCUIT	500	1
	0	-	M	10	30/3	35	C	36				-		
		SPARE		12	20/1	37	A	38	20/1	12		SPARE		
1	500	EXISTING CIRCUIT	M	12	20/1	39	B	40	20/1	12		SPARE		
1	500	EXISTING CIRCUIT	M	12	20/1	41	C	42	20/1	12		SPARE		
	8,820	Subtotal										Subtotal	15,180	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	9,920		9,920	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	600	100%	600		(WH) Water Ht.	600	100%	600
220.60	(F) Fans	5,080	100%	5,080	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	7,500	100%	7,500		(SP) Sub Panel	0	100%	0

Total Connected Load = 23,700 VA = 65.8 AMPS
Total Load (Diversified)= 23,700 VA = 65.8 AMPS

Location of Panel:

DBR
713.914.0888 p
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244

EK	RM/TD	LB/MS	TN/JL	LG/SS

VLK | ARCHITECTS

ARCHITECT

VLK Architects
20445 State Hwy 249, Suite 350
Houston, Texas 77070
Main Phone: 281.671.2300
www.vlkarchitects.com

M.E.P. ENGINEER

DBR Engineering Consultants
9990 Richmond Ave, South Building
Suite 300
Houston, Texas 77042
Main Phone: 713.914.0888
www.dbrinc.com

CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director
Approver
Designer
Designer
Proj. Arch.
DBR

Drawn By
DBR
Quality Control

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - ELECTRICAL SCHEDULES

SHEET NO.

E17.11

Panelboard HA1

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	40	EXISTING LOAD	L	12	20/1	1	A	2	20/1	12		SPARE		
1	3300	EXISTING LOAD	L	12	20/1	3	B	4	20/1	12		SPARE		
1	3260	EXISTING LOAD	L	12	20/1	5	C	6	20/1	12		SPARE		
1	2200	EXISTING LOAD	L	12	20/1	7	A	8	**15/3**	**12**	**C**	**AHU-4 (5 HP)**	**2105**	**2**
1	1570	EXISTING LOAD	L	12	20/1	9	B	10	**15/3**	**12**	**C**	**-**	**2105**	**2**
1	2640	EXISTING LOAD	L	12	20/1	11	C	12	**15/3**	**12**	**C**	**-**	**2105**	**2**
2	**942**	**OAHU-13 (2 HP)**	**C**	**12**	**15/3**	13	A	14	**15/3**	**12**	**C**	**AHU-3 (2 HP)**	**942**	**2**
2	**942**	**-**	**C**	**12**	**15/3**	15	B	16	**15/3**	**12**	**C**	**-**	**942**	**2**
2	**942**	**-**	**C**	**12**	**15/3**	17	C	18	**15/3**	**12**	**C**	**-**	**942**	**2**
		SPACE				19	A	20	15/1	12	WH	EXISTING LOAD	2105	1
		SPACE				21	B	22	15/1	12	WH	-	2105	1
		SPACE				23	C	24	15/1	12	WH	-	2105	1
		SPACE				25	A	26				SPACE		
		SPACE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
		SPACE				35	C	36				SPACE		
		SPACE				37	A	38	70/3	4	SP	EXISTING LOAD	17857	1
		SPACE				39	B	40	70/3	4	SP	EXISTING LOAD	19947	1
		SPACE				41	C	42	70/3	4	SP	EXISTING LOAD	14437	1
	15,836	Subtotal										Subtotal	67,697	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	13,010	125%	16,263
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	11,967	100%	11,967	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	6,315	100%	6,315
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	52,241	100%	52,241

Total Connected Load = 83,533 VA = 100.5 AMPS
Total Load (Diversified)= 86,786 VA = 104.4 AMPS

Location of Panel:

Panelboard HA2

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	80	EXISTING LOAD	L	12	20/1	1	A	2	**15/3**	**12**	**C**	**AHU-2 (5 HP)**	**2105**	**2**
1	2200	EXISTING LOAD	L	12	20/1	3	B	4	**15/3**	**12**	**C**	**-**	**2105**	**2**
1	2510	EXISTING LOAD	L	12	20/1	5	C	6	**15/3**	**12**	**C**	**-**	**2105**	**2**
1	2200	EXISTING LOAD	L	12	20/1	7	A	8	15/3	12	C	EXISTING LOAD	2105	1
1	2200	EXISTING LOAD	L	12	20/1	9	B	10	15/3	12	C	-	2105	1
1	2200	EXISTING LOAD	L	12	20/1	11	C	12	15/3	12	C	-	2105	1
1	2200	EXISTING LOAD	L	12	20/1	13	A	14	20/1	12	SP	EXISTING LOAD	7460	1
1	2200	EXISTING LOAD	L	12	20/1	15	B	16	20/1	12	SP	-	7420	1
1	2200	EXISTING LOAD	L	12	20/1	17	C	18	20/1	12	SP	-	6280	1
1	1760	EXISTING LOAD	L	12	20/1	19	A	20	20/1	12	C	EXISTING LOAD	942	1
		SPARE				21	B	22	20/1	12	C	-	942	1
		SPARE				23	C	24	20/1	12	C	-	942	1
		SPARE				25	A	26				SPACE		
		SPARE				27	B	28				SPACE		
		SPARE				29	C	30				SPACE		
		SPARE				31	A	32				SPACE		
		SPARE				33	B	34				SPACE		
		SPARE				35	C	36				SPACE		
2	**1750**	**DOWNLIGHTS**	**EL**	**10**	**20/1**	37	A	38				SPACE		
	2300	EXISTING LOAD	EL	10	30/2	39	B	40				SPACE		
	2300	-	EL	10	-	41	C	42				SPACE		
	26,100	Subtotal										Subtotal	36,616	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	19,750	125%	24,688
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	6,350	125%	7,938
220.60	(C) Cooling	15,456	100%	15,456	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	21,160	100%	21,160

Total Connected Load = 62,716 VA = 75.5 AMPS
Total Load (Diversified)= 69,241 VA = 83.3 AMPS

Location of Panel:

Panelboard HB1

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB XXX AMP MCB
X MLO 250 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	2670	EXISTING CIRCUIT	L	12	20/1	1	A	2	**15/3**	**12**	**C**	**AHU-8 (5HP)**	**2105**	**4**
1	2970	EXISTING CIRCUIT	L	12	20/1	3	B	4	**15/3**	**12**	**C**	**-**	**2105**	**4**
1	2970	EXISTING CIRCUIT	L	12	20/1	5	C	6	**15/3**	**12**	**C**	**-**	**2105**	**4**
1	3220	EXISTING CIRCUIT	L	12	20/1	7	A	8	**25/3**	**10**	**C**	**AHU-6 (20 HP)**	**7480**	**4**
1	2530	EXISTING CIRCUIT	L	12	20/1	9	B	10	**25/3**	**10**	**C**	**-**	**7480**	**4**
1	2890	EXISTING CIRCUIT	L	12	20/1	11	C	12	**25/3**	**10**	**C**	**-**	**7480**	**4**
1	2970	EXISTING CIRCUIT	L	12	20/1	13	A	14	**40/3**	**8**	**C**	**AHU-5 (15 HP)**	**5817**	**2**
1	2970	EXISTING CIRCUIT	L	12	20/1	15	B	16	**40/3**	**8**	**C**	**-**	**5817**	**2**
1	2500	EXISTING CIRCUIT	L	12	20/1	17	C	18	**40/3**	**8**	**C**	**-**	**5817**	**2**
1	2500	EXISTING CIRCUIT	L	12	20/1	19	A	20	**20/1**	**12**	**L**	**WALL PACKS**	**1000**	**2**
		SPACE				21	B	22				SPACE		
		SPACE				23	C	24				SPACE		
		SPACE				25	A	26				SPACE		
		SPACE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
		SPACE				35	C	36				SPACE		
1	17450	EXISTING CIRCUIT	SP	3	100/3	37	A	38				SPACE		
1	26205	-	SP	3	100/3	39	B	40				SPACE		
1	22920	-	SP	3	100/3	41	C	42				SPACE		
	94,765	Subtotal										Subtotal	47,206	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	29,190	125%	36,488
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	46,206	100%	46,206	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	66,575	100%	66,575

Total Connected Load = 141,971 VA = 170.8 AMPS
Total Load (Diversified)= 149,269 VA = 179.6 AMPS

Location of Panel:

PANEL SCHEDULE GENERAL NOTES:

A. ALL CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY AVAILABILITY OF BREAKERS AFTER DEMOLITION. CONTRACTOR SHALL UTILIZE EXISTING SPARE BREAKERS AFTER DEMOLITION. CONTRACTOR SHALL UTILIZE EXISTING SPARE BREAKERS. PROVIDE ALTERNATE PRICING FOR ADDITIONAL 100A PANEL IF REQUIRED DUE TO LACK OF SPACE.

PANEL SCHEDULE NOTES:

1. EXISTING LOAD SHALL REMAIN.
2. CONNECT NEW BRANCH CIRCUIT TO EXISTING SPARE BREAKER.
3. REPLACE EXISTING SPACE WITH NEW BREAKER INDICATED.
4. REPLACE EXISTING BREAKER WITH NEW BREAKER INDICATED.

Panelboard HC1

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB XXX AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	50	EXISTING LOAD		12	20/1	1	A	2	**25/3**	**10**	**C**	**OAHU-16 (7.5 HP)**	**3047**	**4**
1	2670	EXISTING LOAD		12	20/1	3	B	4	**25/3**	**-**	**C**	**-**	**3047**	**4**
1	2970	EXISTING LOAD				5	C	6	**25/3**	**-**	**C**	**-**	**3047**	**4**
1	2970	EXISTING LOAD				7	A	8	**20/3**	**10**	**C**	**AHU-10 (15 HP)**	**5817**	**2**
1	2340	EXISTING LOAD				9	B	10	**20/3**	**-**	**C**	**-**	**5817**	**2**
1	2010	EXISTING LOAD				11	C	12	**20/3**	**-**	**C**	**-**	**5817**	**2**
1	2090	EXISTING LOAD				13	A	14	**25/3**	**10**	**C**	**AHU-12 (10 HP)**	**3878**	**2**
1	2200	EXISTING LOAD				15	B	16	**25/3**	-	**C**	-	**3878**	**2**
1	2420	EXISTING LOAD				17	C	18	**25/3**	-	**C**	-	**3878**	**2**
1	1050	EXISTING LOAD				19	A	20	**25/3**	**10**	**C**	**AHU-11 (10 HP)**	**3878**	**2**
1	3800	EXISTING LOAD				21	B	22	**25/3**	-	**C**	-	**3878**	**2**
		SPARE				23	C	24	**25/3**	-	**C**	-	**3878**	**2**
		SPARE				25	A	26				SPACE		
		SPARE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
1	200	EXISTING LOAD				35	C	36				SPACE		
1	1000	EXISTING LOAD				37	A	38	100/3	3		EXISTING LOAD	18920	1
1	3910	EXISTING LOAD				39	B	40	-	-		-	19945	1
1	3910	EXISTING LOAD				41	C	42	-	-		-	18900	1
	33,590	Subtotal										Subtotal	107,625	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	49,860	100%	49,860	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 49,860 VA = 60.0 AMPS
Total Load (Diversified)= 49,860 VA = 60.0 AMPS

Location of Panel:

Panelboard HC2

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB AMP MCB
X MLO 250 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	50	EXISTING CIRCUIT	L	12	20/1	1	A	2	20/1	12	L	EXISTING CIRCUIT	2500	1
1	2970	EXISTING CIRCUIT	L	12	20/1	3	B	4	20/1	12		SPARE		
1	2970	EXISTING CIRCUIT	L	12	20/1	5	C	6	20/1	12	L	EXISTING CIRCUIT	2900	1
1	2670	EXISTING CIRCUIT	L	12	20/1	7	A	8				SPACE		
1	2420	EXISTING CIRCUIT...	L	12	20/1	9	B	10				SPACE		
1	2090	EXISTING CIRCUIT	L	12	20/1	11	C	12				SPACE		
1	2310	EXISTING CIRCUIT	L	12	20/1	13	A	14				SPACE		
1	2970	EXISTING CIRCUIT	L	12	20/1	15	B	16				SPACE		
1	2970	EXISTING CIRCUIT	L	12	20/1	17	C	18				SPACE		
1	2670	EXISTING CIRCUIT	L	12	20/1	19	A	20	15/3	**12**	**WH**	**EWH-3**	**2700**	**2**
1	2500	EXISTING CIRCUIT	L	12	20/1	21	B	22	15/3	**12**	**WH**	**-**	**2700**	**2**
1	2900	EXISTING CIRCUIT	L	12	20/1	23	C	24	15/3	**12**	**WH**	**-**	**2700**	**2**
1	2500	EXISTING CIRCUIT	L	12	20/1	25	A	26				SPACE		
		SPACE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
		SPACE				35	C	36				SPACE		
1	2500	EXISTING CIRCUIT		12	20/2	37	A	38	100/3	3	SP	EXISTING XFMR	16200	1
1	2000	-		-	-	39	B	40	100/3	3	SP	-	19280	1
2	**2000**	**WALLPACKS**		**12**	**20/1**	41	C	42	100/3	3	SP	-	19240	1
	38,490	Subtotal										Subtotal	68,220	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	37,390	125%	46,738
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	8,100	100%	8,100
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	54,720	100%	54,720

Total Connected Load = 100,210 VA = 120.6 AMPS
Total Load (Diversified)= 109,558 VA = 131.8 AMPS

Location of Panel:

Panelboard LSEH2

0 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB XXX AMP MCB
MLO XXX AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1		EXISTING CIRCUIT		10	30/3	1	A	2	20/1	12	L	EXISTING CIRCUIT		1
1		EXISTING CIRCUIT			-	3	B	4	20/1	12	L	EXISTING CIRCUIT		1
1		EXISTING CIRCUIT			-	5	C	6	**20/1**	**12**	**EL**	**EM. WALL PACKS**		**2**
		SPARE		12	20/1	7	A	8	20/1	12		SPARE		
		SPACE				9	B	10	20/1	12		SPARE		
		SPACE				11	C	12				SPACE		
		SPACE				13	A	14				SPACE		
		SPACE				15	B	16				SPACE		
		SPACE				17	C	18				SPACE		
	0	Subtotal										Subtotal	0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 0 VA = 0.0 AMPS
Total Load (Diversified)= 0 VA = 0.0 AMPS

Location of Panel:

Panelboard LSEH3

10,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB XXX AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1		SPD		10	30/3	1	A	2	20/1	12		EXISTING CIRCUIT	1000	1
1		-		10	30/3	3	B	4	20/1	12		EXISTING CIRCUIT	1000	1
1		-		10	30/3	5	C	6	**20/1**	**12**		**EM. WALL PACKS**	**1000**	**2**
		SPARE				7	A	8	20/1	12		SPARE		
		SPARE				9	B	10	20/1	12		SPARE		
		SPACE				11	C	12				SPACE		
		SPACE				13	A	14				SPACE		
		SPACE				15	B	16				SPACE		
		SPACE				17	C	18				SPACE		
	0	Subtotal										Subtotal	3,000	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 0 VA = 0.0 AMPS
Total Load (Diversified)= 0 VA = 0.0 AMPS

Location of Panel:

3-PHASE, 4-WIRE FEEDER SCHEDULE

COPPER				ALUMINUM			
RATING	SETS	CONDUCTOR SIZE	CONDUIT	RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	4#10, 1#10 G.	3/4"	30A	N/A	N/A	N/A
40A	1	4#8, 1#10 G.	1"	40A	N/A	N/A	N/A
50A	1	4#8, 1#10 G.	1"	50A	N/A	N/A	N/A
60A	1	4#6, 1#10 G.	1"	60A	N/A	N/A	N/A
70A	1	4#4, 1#8 G.	1 1/4"	70A	N/A	N/A	N/A
80A	1	4#4, 1#8 G.	1 1/4"	80A	N/A	N/A	N/A
90A	1	4#3, 1#8 G.	1 1/4"	90A	N/A	N/A	N/A
100A	1	4#3, 1#8 G.	1 1/4"	100A	N/A	N/A	N/A
125A	1	4#1, 1#6 G.	1 1/2"	125A	N/A	N/A	N/A
150A	1	4#1/0, 1#6 G.	1 1/2"	150A	N/A	N/A	N/A
175A	1	4#2/0, 1#6 G.	2"	175A	N/A	N/A	N/A
200A	1	4#3/0, 1#6 G.	2"	200A	1	4#250, 1#4 G.	2 1/2"
225A	1	4#4/0, 1#4 G.	2 1/2"	225A	1	4#300, 1#2 G.	3"
250A	1	4#250, 1#4 G.	2 1/2"	250A	1	4#350, 1#2 G.	3"
300A	1	4#350, 1#4 G.	3"	300A	1	4#500, 1#2 G.	4"
350A	1	4#500, 1#3 G.	3 1/2"	350A	2	4#4/0, 1#1 G.	2 1/2"
400A	1	4#600, 1#3 G.	4"	400A	2	4#250, 1#1 G.	2 1/2"
450A	2	4#4/0, 1#2 G.	2 1/2"	450A	2	4#300, 1#1/0 G.	3"
500A	2	4#250, 1#2G.	2 1/2"	500A	2	4#350, 1#1/0 G.	3"
600A	2	4#350, 1#1G.	3"	600A	2	4#500, 1#2/0 G.	3"
700A	2	4#500, 1#1/0G.	4"	700A	3	4#350, 1#3/0 G.	3"
800A	2	4#600, 1#1/0G.	4"	800A	3	4#400, 1#3/0 G.	3"
1000A	3	4#500, 1#2/0G.	4"	1000A	4	4#350, 1#4/0 G.	4"
1200A	4	4#350, 1#3/0G.	3"	1200A	4	4#500, 1#250 G.	4"
1600A	4	4#600, 1#4/0G.	4"	1600A	5	4#750, 1#350 G.	4"
	5	4#500, 1#4/0G.	4"				
2000A	5	4#600, 1#250G.	4"	2000A	6	4#750, 1#400 G.	4"
	6	4#500, 1#250G.	4"				
2500A	6	4#600, 1#350G.	4"	2500A	7	4#750, 1#600 G.	4"
	7	4#500, 1#350G.	4"				
3000A	8	4#500, 1#400G.	4"	3000A	8	4#750, 1#600 G.	4"
3500A	9	4#600, 1#500G.	4"	3500A	10	4#750, 1#750 G.	4"
	10	4#500, 1#500G.	4"				
4000A	10	4#600, 1#500G.	4"	4000A	11	4#750, 1#750 G.	4"
	11	4#500, 1#500G.	4"				
5000A	12	4#600, 1#750G.	4"	5000A	13	4#750, 2#600 G.	5"
	14	4#500, 1#750G.	4"				

1. ALUMINUM CONDUCTORS SHALL BE COMPRESSION TYPE CONDUCTORS AND SHALL USE PENETROX WITH COMPRESSION TERMINATION FITTINGS.
2. ALUMINUM FEEDERS ARE NOT APPROVED FOR USE ON THE FOLLOWING:

- ALL HVAC EQUIPMENT
- TRANSFORMER SECONDARY
- ELEVATORS
- VARIABLE FREQUENCY DRIVE

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				ALUMINUM			
RATING	SETS	CONDUCTOR SIZE	CONDUIT	RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	3#10, 1#10 G.	3/4"	30A	N/A	N/A	N/A
40A	1	3#8, 1#10 G.	3/4"	40A	N/A	N/A	N/A
50A	1	3#8, 1#10 G.	3/4"	50A	N/A	N/A	N/A
60A	1	3#6, 1#10 G.	1"	60A	N/A	N/A	N/A
70A	1	3#4, 1#8 G.	1"	70A	N/A	N/A	N/A
80A	1	3#4, 1#8 G.	1"	80A	N/A	N/A	N/A
90A	1	3#3, 1#8 G.	1 1/4"	90A	N/A	N/A	N/A
100A	1	3#3, 1#8 G.	1 1/4"	100A	N/A	N/A	N/A
125A	1	3#1, 1#6 G.	1 1/4"	125A	N/A	N/A	N/A
150A	1	3#1/0, 1#6 G.	1 1/2"	150A	N/A	N/A	N/A
175A	1	3#2/0, 1#6 G.	1 1/2"	175A	N/A	N/A	N/A
200A	1	3#3/0, 1#6 G.	2"	200A	1	3#250, 1#4 G.	2"
225A	1	3#4/0, 1#4 G.	2"	225A	1	3#300, 1#2 G.	2-1/2"
250A	1	3#250, 1#4 G.	2 1/2"	250A	1	3#350, 1#2 G.	2 1/2"
300A	1	3#350, 1#4 G.	2 1/2"	300A	1	3#500, 1#2 G.	3"
350A	1	3#500, 1#3 G.	3"	350A	2	3#4/0, 1#1 G.	2"
400A	1	3#600, 1#3 G.	3 1/2"	400A	2	3#250, 1#1 G.	2 1/2"
450A	2	3#4/0, 1#2 G.	2"	450A	2	3#300, 1#1/0 G.	2 1/2"
500A	2	3#250, 1#2G.	2 1/2"	500A	2	3#350, 1#1/0 G.	2 1/2"
600A	2	3#350, 1#1G.	3"	600A	2	3#500, 1#2/0 G.	3"
700A	2	3#500, 1#1/0G.	3 1/2"	700A	3	3#350, 1#3/0 G.	2 1/2"
800A	2	3#600, 1#1/0G.	3 1/2"	800A	3	3#400, 1#3/0 G.	3"
1000A	3	3#500, 1#2/0G.	3"	1000A	4	3#350, 1#4/0 G.	3"
1200A	4	3#350, 1#3/0G.	3"	1200A	4	3#500, 1#250 G.	3"
1600A	4	3#600, 1#4/0G.	3 1/2"	1600A	5	3#750, 1#350 G.	3 1/2"
	5	3#500, 1#4/0G.	3"				
2000A	5	3#600, 1#250G.	3 1/2"	2000A	6	3#750, 1#400 G.	3 1/2"
	6	3#500, 1#250G.	3"				
2500A	6	3#600, 1#350G.	3 1/2"	2500A	7	3#750, 1#600 G.	4"
	7	3#500, 1#350G.	3 1/2"				
3000A	8	3#500, 1#400G.	3 1/2"	3000A	8	3#750, 1#600 G.	4"
3500A	9	3#600, 1#500G.	3 1/2"	3500A	10	3#750, 1#750 G.	4"
	10	3#500, 1#500G.	3 1/2"				
4000A	10	3#600, 1#500G.	3 1/2"	4000A	11	3#750, 1#750 G.	4"
	11	3#500, 1#500G.	3 1/2"				

1. ALUMINUM CONDUCTORS SHALL BE COMPRESSION TYPE CONDUCTORS AND SHALL USE PENETROX WITH COMPRESSION TERMINATION FITTINGS
2. ALUMINUM FEEDERS ARE NOT APPROVED FOR USE ON THE FOLLOWING:

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2. GROUND NOT REQUIRED AT SERVICE LATERAL.

713.914.0888 p
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244

EK	RM/TD	LB/MS	TN/JL	LG/SS

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

WILLIAM MEISTER
101184
11/14/24

ISSUED: 11/14/2024

REVISIONS

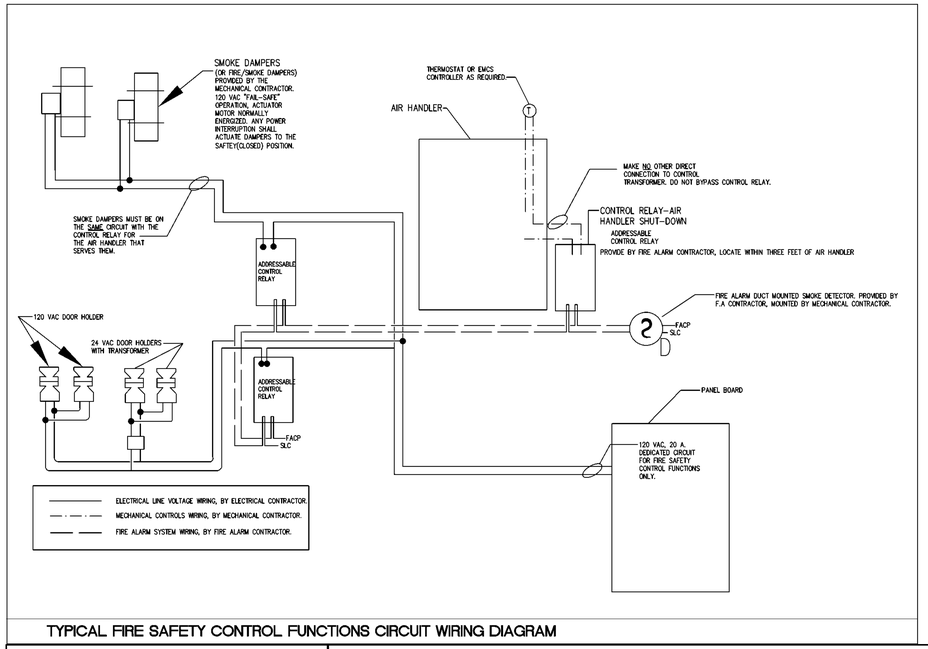
Revision No.	Revision Date

Director: Approver
Drawn By: Author
Designer: Designer
Quality Control
Proj. Arch.: Checker

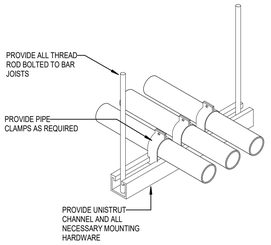
PROJECT NO.
24-046.00

SHEET TITLE
FAPE - ELECTRICAL SCHEDULES

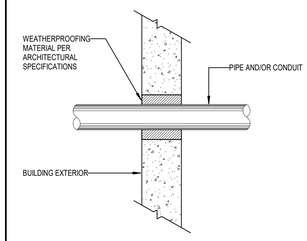
SHEET NO.
E17.12



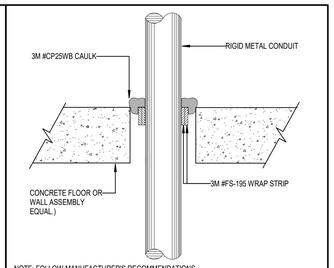
TYPICAL FIRE SAFETY CONTROL FUNCTIONS CIRCUIT WIRING DIAGRAM



1 UNISTRUT CONDUIT DETAIL — NOT TO SCALE — E1003

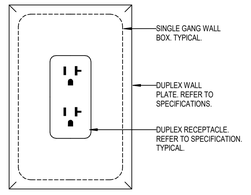


2 PIPE AND/OR CONDUIT PENETRATION — NOT TO SCALE — E1001B

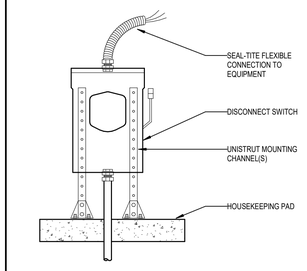


NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

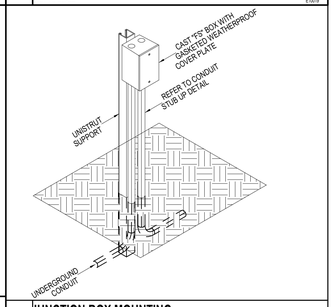
3 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE — NOT TO SCALE — E1001B



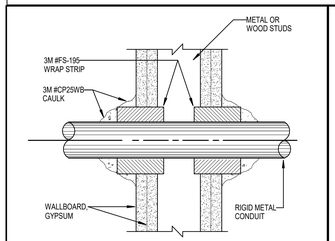
4 TYPICAL RECEPTACLE MOUNTING DETAIL — NOT TO SCALE — E1001B



5 DICONNECT SWITCH MOUNTING AT CONCRETE PAD — NOT TO SCALE — E1001A

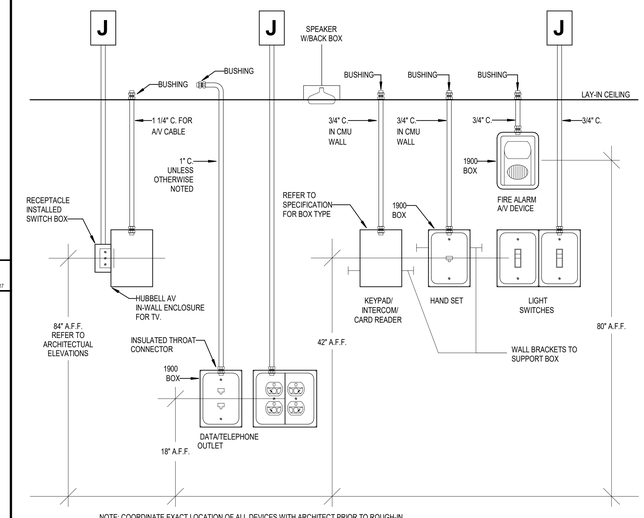


6 JUNCTION BOX MOUNTING — NOT TO SCALE — E1001C



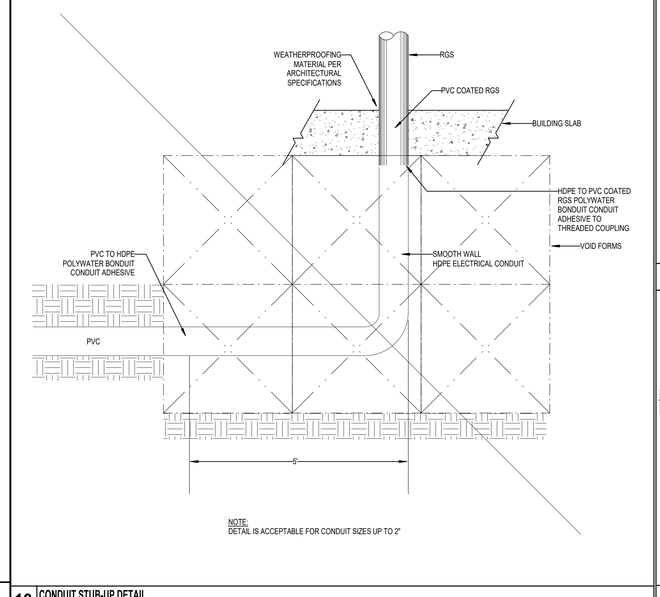
NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION

7 2 HR. GYPSUM WALLBOARD PIPE PENETRATION — NOT TO SCALE — E1001F



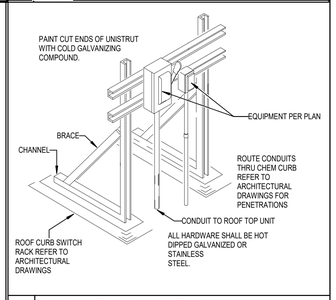
NOTE: COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

9 TYPICAL DEVICE ELEVATIONS — NOT TO SCALE — E1001

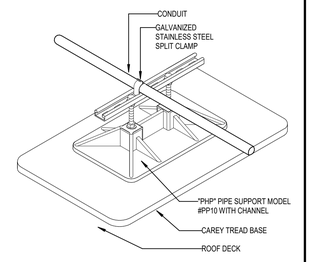


NOTE:
DETAIL IS ACCEPTABLE FOR CONDUIT SIZES UP TO 2"

10 CONDUIT STUB-UP DETAIL — NOT TO SCALE — E1021

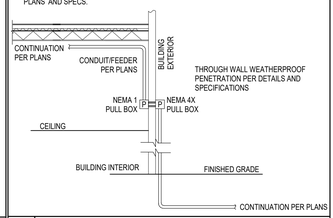


11 ROOF UNISTRUT RACK DETAIL — NOT TO SCALE — E1001E

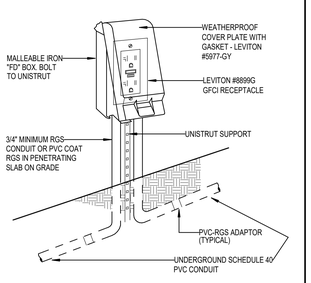


8 ROOF CONDUIT SUPPORT DETAIL — NOT TO SCALE — E1001D

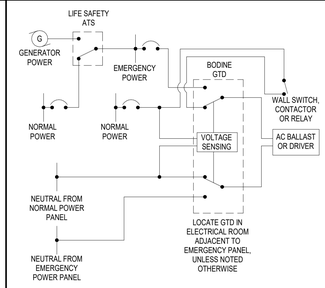
NOTES:
A. DETAIL APPLIES TO NEW CONDUIT/FEEDER EXTENSIONS FROM EXISTING STRUCTURE.
B. PULLBOXES SHALL BE PROVIDED IN ACCORDANCE WITH N.E.C SIZING REQUIREMENTS FOR QUANTITY, SIZE, AND BEND RADIUS OF ALL CONDUCTORS PASSING THROUGH.
C. CONDUIT TYPE, BURIAL DEPTH, HANGARS, HARDWARE IN ACCORDANCE WITH PLANS AND SPECS.



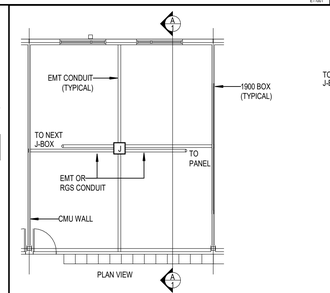
12 EXISTING BLDG PENETRATION DETAIL — NOT TO SCALE — E1002

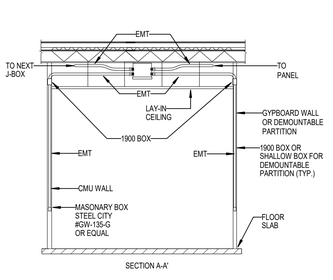


13 RECEPTACLE MOUNTING DETAIL — NOT TO SCALE — E1002F

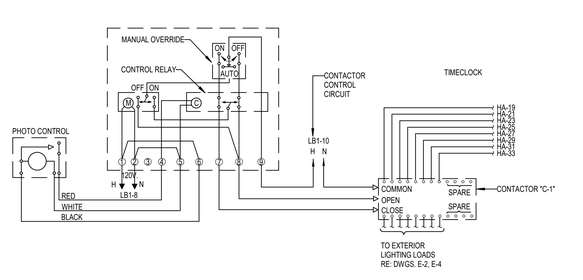


14 BODINE 20 AMP GTD DEVICE - UL 1008 — NOT TO SCALE — E1002





15 TYPICAL RACEWAY CONFIGURATION — NOT TO SCALE — E1001G



16 EXTERIOR LIGHTING CONTROL — NOT TO SCALE — E1401D

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - ELECTRICAL DETAILS

SHEET NO.
E17.13

DBR
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https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
AC	AIR COMPRESSOR
AD	AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AUX	AUXILIARY
AV	ACID VENT
AVV	AIR ADMITTANCE VALVE
AW	ACID WASTE

B

B	BOILER
BF	BOTTLE FILLER
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
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
CI	CAST IRON
CIRC	CIRCULATING
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CMU	CONCRETE MASONRY UNIT
CL	CENTERLINE
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CP	CIRCULATING PUMP, CHROME PLATE
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTE	CONNECT TO EXISTING
CW	COLD WATER

D

DBP	DOMESTIC BOOSTER PUMP
DC	DOWNSPOUT COVER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN, DOWNSPOUT NOZZLE
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EL OR ELVA	ELEVATION
ES	EMERGENCY SHOWER
ESP	ELEVATOR SUMP PUMP
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWH	ELECTRIC WATER HEATER

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCV	FLOOR CONTROL VALVE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXSTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FL	FLOW LINES
FLEX	FLEXIBLE
FLR	FLOOR
FP	FIRE PUMP
FS	FLOW SWITCH, FIRE SPRINKLER FLOOR SINK
FT	FOOT, FEET
FW	FORCE WASTE, FILTER WATER

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GI	GREASE INTERCEPTOR
GL	GLOBE VALVE
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GV	GATE VALVE, GREASE VENT
GW	GREASE WASTE
GWH	GAS WATER HEATER

H

HB	HOSE BIBB
HC	HANDICAPPED
HD	HEAD, HUB DRAIN
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HR	HOSE REEL
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
IW	INDIRECT WASTE
IWH	INSTANTANEUOS WATER HEATER

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LT	LINT, LINT TRAP
LVL	LEVEL

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MS	MOP SINK
MSB	MOP SERVICE BASIN
MTD	MOUNTED
MUW	MAKE-UP WATER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE

O

O	MEDICAL OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OS&Y	OPEN STEM AND YOLK

P

PC	PLUMBING CONTRACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNL	PANEL
POU	POINT-OF-USE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYL IDENE FLUORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE REFER
RECIRC	RECIRCULATE
REFR	REFRIGERATOR
RH	ROOF HYDRANT
RM	ROOM
RO	REVERSE OSMOSIS
RPBF	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SHOOK ABSORBER
SC	SCHEDULE
SD	STORM DRAIN, SANITARY DRAIN
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SH	SHOWER
SHI	SOLID HAIR INTERCEPTOR
SI	SOLIDS INTERCEPTOR
SIM	SIMILAR
SK	SINK
SOS	SAND OIL SEPERATOR
SOV	SHUT-OFF VALVE
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK, SOIL STACK, STAINLESS STEEL
SSD	SUBSURFACE DRAIN
STD	STANDARD
STL	STEEL
STR	STRAINER
SV	SANITARY VENT
SW	SOFT WATER

T

TCO	TRAFFIC CLEANOUT
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TDL	TOTAL DEVELOPED LENGTH
TLT	TOILET
TMV	THERMOSTATIC MIXING VALVE
TOB	TOP OF BEAM
TOF	TOP OF FOOTER
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TS	TAMPER SWITCH
TYP	TYPICAL

U

U	URINAL
UF	UNDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
US	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VS	VENT STACK
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WADG	WASTE ANESTHETIC GAS DISPOSAL
WB	WALL BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WMB	WASHER MACHINE BOX
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER, WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WATERTIGHT, WEIGHT

Y

YCO	YARD CLEANOUT
YH	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

- SANITARY DRAIN BELOW FLOOR
- EXISTING SOIL OR WASTE PIPING B.G. - S(E)
- SANITARY DRAIN ABOVE FLOOR
- EXISTING SOIL OR WASTE PIPING A.G. - S(E)
- PIPE DEMO
- SANITARY VENT
- EXISTING VENT PIPING
- GREASE WASTE(ABOVE CEILING)
- GREASE WASTE(BELOW FLOOR)
- STORM DRAIN(ABOVE CEILING)
- STORM DRAIN(BELOW FLOOR)
- OVERFLOW DRAIN(ABOVE CEILING)
- OVERFLOW DRAIN(BELOW FLOOR)
- ACID WASTE(ABOVE CEILING)
- EXISTING ACID WASTE PIPING A.G. - AW(E)
- ACID WASTE(BELOW FLOOR)
- EXISTING ACID WASTE PIPING B.G. - AW(E)
- ACID VENT(ABOVE CEILING OR BELOW FLOOR)
- EXISTING ACID VENT PIPING - AV(E)
- NON-POTABLE - COLD WATER
- COLD WATER - CW
- EXISTING DOMESTIC COLD WATER - CW(E)
- HOT WATER - HW
- EXISTING DOMESTIC HOT WATER - HW(E)
- HOT WATER RECIRCULATION
- EXISTING DOMESTIC HOT WATER RETURN - HWR(E)
- NATURAL GAS (LOW PRESSURE)
- NATURAL GAS (MEDIUM PRESSURE)
- NATURAL GAS (HIGH PRESSURE)
- TEMPERED WATER
- COMPRESSED AIR
- MEDICAL AIR
- MEDICAL OXYGEN
- MEDICAL VACUUM
- FIRE STANDPIPE, FIRE LINE
- WET AUTOMATIC FIRE SPRINKLER
- FORCE WASTE
- TRAP PRIMER
- DRAIN LINE
- SOFT WATER
- LINT WASTE
- LIQUIFIED PETROLEUM GAS
- NITROGEN
- NITROUS OXIDE
- INSTRUMENT AIR
- WASTE ANESTHETIC GAS DISPOSAL

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
- 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
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- WATER SUB-METER
- LOCAL ALARM
- MASTER ALARM
- AREA ALARM

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
- P.X.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
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL FUEL GAS CODE
2021 IENTERNATIONAL ENERGY CODE

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS — WILLIAM MEISTER — 101184 — LICENSED — PROFESSIONAL ENGINEER — 11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch. DBR	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - PLUMBING SYMBOL LEGEND

SHEET NO.

P10.00

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TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TDL B/MS TN/JL LG/SS

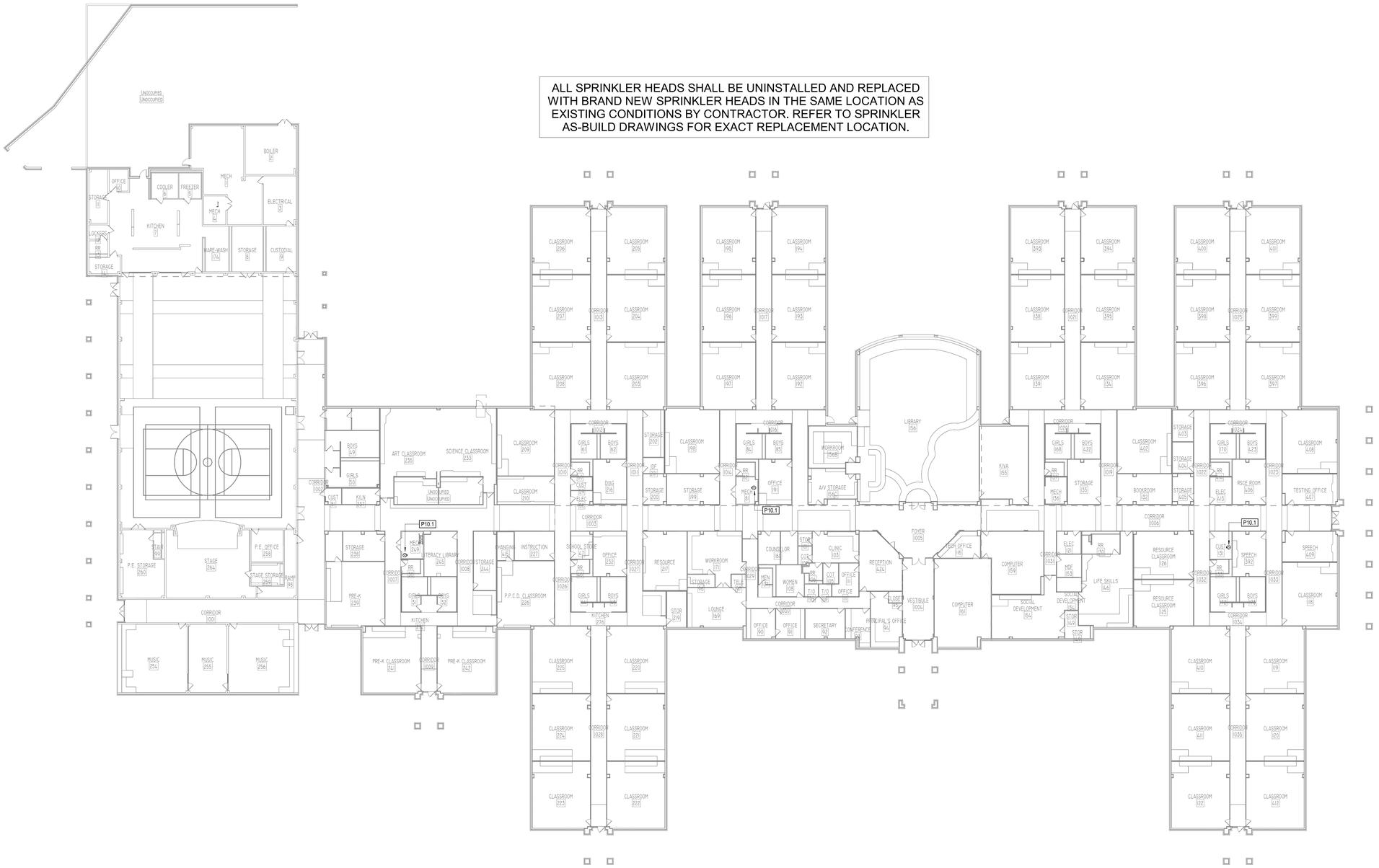
THE SCOPE OF THE FIRE PROTECTION WORK SHALL INCLUDE:

1. ONE FOR ONE REPLACEMENT OF ALL THE EXISTING FIRE SPRINKLER HEADS WITHIN THE BUILDING.
2. PROVIDE NEW SPRINKLER GUARDS WHERE HEADS BEING REPLACED HAVE SUCH GUARDS AND WHERE NEW HEADS WILL BE SUBJECT TO DAMAGE AND REASONABLY REQUIRE SUCH PROTECTION.
3. MAKE PIPING ADJUSTMENTS IF AND AS NECESSARY TO ACCOMMODATE SPRINKLER HEAD REPLACEMENT, CEILING REPLACEMENT, AND TO CORRECT ANY DEFICIENCIES IN SPRINKLER COVERAGE.
4. ALL NEW SPRINKLER HEADS PROVIDED SHALL BE BY JOHNSON CONTROLS INTERNATIONAL PLC, TYCO GROUP. TYPICAL HEADS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO: SERIES TY-B, TY-FRB, EC-8, AND DS-1.
5. ALL SPRINKLERS MUST BE PROVIDED IN ACCORDANCE WITH THEIR LISTING AT WITH TEMPERATURE RATINGS APPROPRIATE FOR THE AMBIENT TEMPERATURE.
6. THE FINAL INSTALLATION SHALL BE COMPLIANT WITH ALL NFPA 13 AND LOCAL AHJ REQUIREMENTS.
7. PROVIDE A HYDROSTATIC TEST OF THE SYSTEM IN ACCORDANCE WITH NFPA 13, CHAPTER 25 AFTER ALL NEW HEADS HAVE BEEN INSTALLED.
8. **SHOP DRAWINGS FROM THE ORIGINAL SYSTEM INSTALLATION ARE PROVIDED FOR REFERENCE AND AS AN AID IN BIDDING**. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS INCLUDING CURRENT SPACE LAYOUT AND SPRINKLER TYPES, LOCATIONS, AND QUANTITIES.
9. IN THE COURSE OF THE WORK, THE CONTRACTOR SHALL ASSIST THE OWNER BY IDENTIFYING ANY SPRINKLER SYSTEM ITEMS BEYOND THE INTENDED SCOPE WHICH ARE DEFICIENT, UNFIT FOR SERVICE, OR IN NEED OF REPAIR. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING: LEAKING OR DETERIORATED PIPING AND VALVES, IMPROPERLY SUPPORTED OR SAGGING PIPE, AND SYSTEM APPURTENANCES NOT FUNCTIONING AS INTENDED.
10. ENSURE TO PROVIDE A MINIMUM OF SIX (6) SPARE SPRINKLER HEADS OF EACH TYPE AND TEMPERATURE RATING IN AN APPROPRIATELY SIZES SPARE SPRINKLER CABINET.

☐ PLUMBING KEYED NOTES

P10.1 CONTRACTOR SHALL DISCONNECT ALL EXISTING PIPING CONNECTIONS AT EXISTING ELECTRIC WATER HEATER AND PREPARE FOR NEW ELECTRIC WATER HEATER IN SAME PLACE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BACK TO THE MAIN. RE: NEW PLANS.

ALL SPRINKLER HEADS SHALL BE UNINSTALLED AND REPLACED WITH BRAND NEW SPRINKLER HEADS IN THE SAME LOCATION AS EXISTING CONDITIONS BY CONTRACTOR. REFER TO SPRINKLER AS-BUILD DRAWINGS FOR EXACT REPLACEMENT LOCATION.



1 P12.00 DEMO COMPOSITE PLUMBING PLAN - LEVEL ONE

1" = 20'-0"

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - DEMO COMPOSITE PLUMBING PLAN

SHEET NO.
P12.00

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DBR Project # 240244
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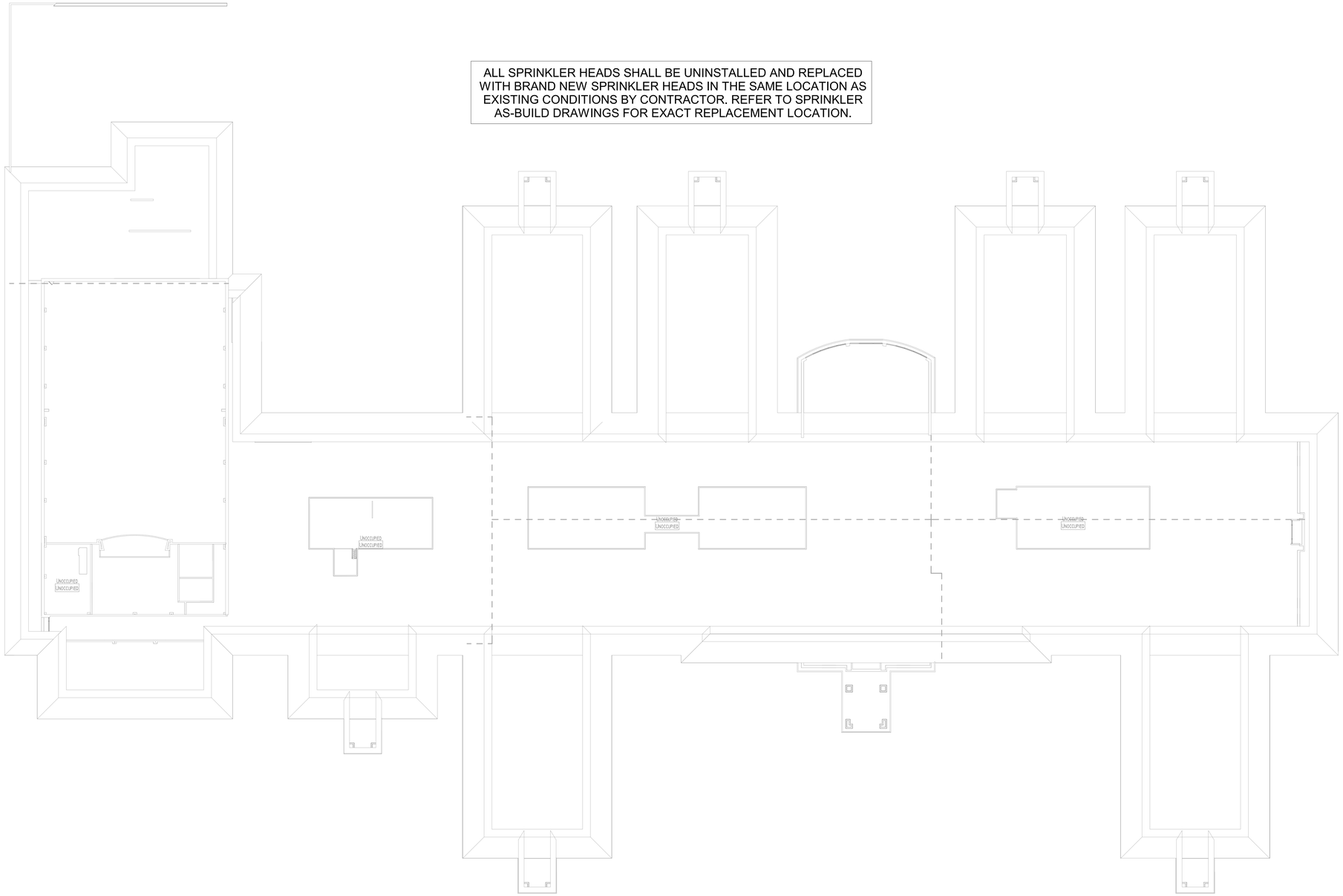

1 P12.01 **DEMO COMPOSITE PLUMBING PLAN - LEVEL TWO**
1" = 20'-0"

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CLEAR CREEK ISD
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CCISD PROJECT NO:
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CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

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Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - DEMO COMPOSITE PLUMBING PLAN - MEZZANINE

SHEET NO.

P12.01

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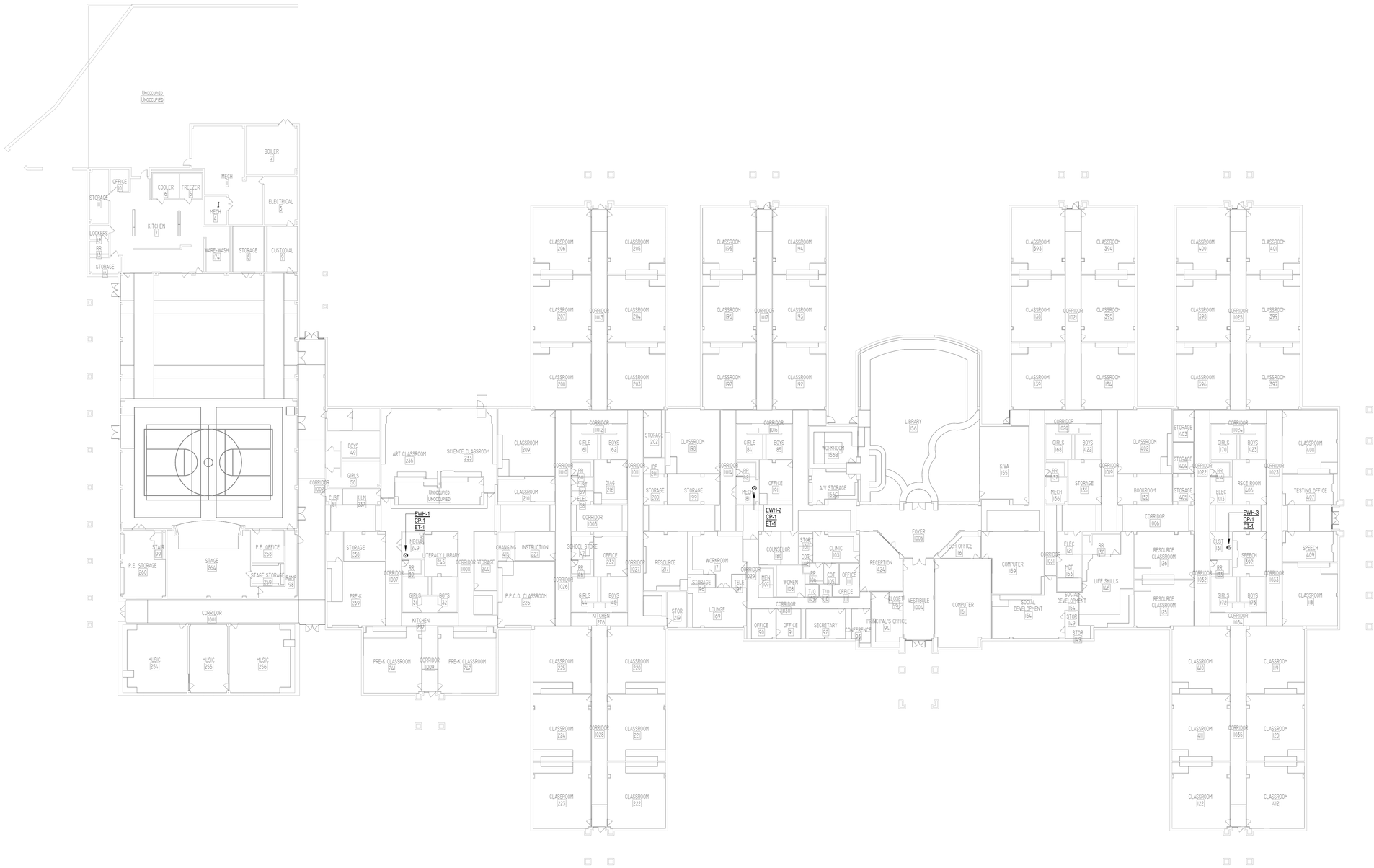
☐ PLUMBING KEYED NOTES



1 P12.10 **COMPOSITE PLUMBING PLAN - LEVEL ONE**
1" = 20'-0"

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KEY PLAN

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FAPE - COMPOSITE PLUMBING PLAN

SHEET NO.

P12.10

CCISD Priority Repairs - FAPE GOFE ROBE

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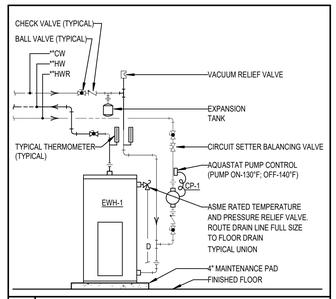
ELECTRIC WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL #	TYPE	FUEL	GALLONS	CW INLET	HW OUTLET	GPH RECOVERY @ 80° TEMP RISE	STANDBY LOSS (%/hour)	ELECTRICAL REQUIREMENTS			
										VOLTS (V)	PHASE	kW	AMPS
ELECTRIC WATER HEATER EWH-1	STATE	PCE 40 20LSA	STORAGE TANK	ELECTRIC	40	3/4"	3/4"	31	0.87	480	3	8.0	9.6
ELECTRIC WATER HEATER EWH-2	STATE	PCE 40 20LSA	STORAGE TANK	ELECTRIC	40	3/4"	3/4"	31	0.87	480	3	8.0	9.6
ELECTRIC WATER HEATER EWH-3	STATE	PCE 40 20LSA	STORAGE TANK	ELECTRIC	40	3/4"	3/4"	31	0.87	480	3	8.0	9.6

NOTES:
1. PROVIDE WITH WALL MOUNTED WATER HEATER PLATFORM.
2. PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE, AND DIAL THERMOMETER IN HW OUTLET PIPING
3. FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS, VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

PLAN MARK	MANUFACTURER	MODEL #	DESCRIPTION	ELECTRICAL REQUIREMENTS			
				VOLTS (V)	PHASE	kW	HP
CIRCULATION PUMP CP-1 (EWH-1)	GRUNDFOS	UP26-96SF	ALL STAINLESS STEEL FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 15 FT HEAD LOSS.	115	1	85 W	0.04
THERMAL EXPANSION TANK ET-1	AMTROL	THERM-X-TROL MODEL ST-5-C	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.0 GALLONS.	--	--	--	--



1 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE

GENERAL PLUMBING NOTES: (RENOVATION FIRE SPRINKLER SYSTEM GENERAL NOTES)

1. THE PROJECT IS A RENOVATION AND/OR ADDITION TO AN EXISTING BUILDING. THE SCOPE OF WORK INCLUDES MODIFICATION OF THE EXISTING AND/OR PROVISION OF A NEW AUTOMATIC FIRE SPRINKLER SYSTEM AS INDICATED IN GENERAL ON THE DRAWINGS.
2. ALL FIRE SPRINKLER SYSTEM WORK SHALL BE COORDINATED WITH BOTH THE NEW AND EXISTING CONDITIONS AND PROVIDED ACCORDINGLY.
3. THE SIZES, ROUTING/RE-ROUTING, REMOVAL AND INSTALLATION OF FIRE SPRINKLER MAINS, RISERS, BRANCH LINES, SPRINKLER HEADS, AND DRAIN LINES SHALL BE PROVIDED AS NECESSARY PER THE OVERALL PROJECT SCOPE OF WORK AND THE ABOVE-CEILING CONDITIONS.
4. ANY SPECIFIC AREAS AND/OR CONDITIONS WHICH MAY BE NOTED ON THE DRAWINGS ARE INTENDED ONLY AS AN AID TO THE FIRE PROTECTION CONTRACTOR. ALL INFORMATION MUST BE VERIFIED IN THE FIELD. ALL NECESSARY LOCATIONS FOR SPRINKLER WORK AND ALL PERTINENT CONDITIONS MAY NOT BE NOTED ON THE DRAWINGS.
5. NEW AND EXISTING STRUCTURAL MEMBERS, DUCTWORK AND AIR DEVICES, SUSPENDED HVAC EQUIPMENT, HYDRONIC PIPING, CONDUIT, LIGHT FIXTURES, SUSPENDED ELECTRICAL EQUIPMENT, PLUMBING PIPING, SUSPENDED PLUMBING EQUIPMENT, AND LOW VOLTAGE DEVICES AND SUSPENDED EQUIPMENT ABOVE CEILING SHALL BE ACCOUNTED FOR.
6. NEW AND EXISTING CEILING HEIGHTS, TYPES, AND ASSEMBLIES SHALL BE ACCOUNTED FOR.
7. OTHERWISE FUNCTIONAL AND COMPLIANT EXISTING FIRE SPRINKLER SYSTEM PIPING, SPRINKLER HEADS, HANGERS AND SUPPORTS MAY NEED TO BE REMOVED TO ACCOMMODATE OTHER WORK BEING PROVIDED IN THE AVAILABLE ABOVE-CEILING SPACE. IN SUCH CASES, NEW AND ADDITIONAL SPRINKLER SYSTEM MATERIAL SHALL BE PROVIDED IN ALTERNATIVE LOCATIONS AS NECESSARY. ENSURE THAT PROPER SPRINKLER SPACING, COVERAGE AND PROTECTION IS MAINTAINED/PROVIDED.
8. THE FIRE SPRINKLER SYSTEM PIPE SIZING, ROUTING, AND HYDRAULIC CALCULATIONS SHALL TAKE INTO ACCOUNT THE AVAILABLE ABOVE-CEILING SPACE AND SYSTEM WATER SUPPLY.
9. THE FIRE SPRINKLER SYSTEM WATER SUPPLY SHALL BE VERIFIED AS NECESSARY AND IN ACCORDANCE WITH NFPA 13 REQUIREMENTS.
10. FOR ANY SPRINKLERS INTENDED FOR REMOVAL, RELOCATION, AND RE-USE, THIS SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND LATEST NFPA 13 REQUIREMENTS. SPRINKLERS SHALL NOT BE RE-USED IF TORQUE HAS BEEN APPLIED DIRECTLY TO THE WRENCH BOSS OF THE SPRINKLER DURING ITS REMOVAL. IF REMOVAL OF A SPRINKLER REQUIRES APPLYING TORQUE TO THE SPRINKLER ITSELF, THEN IT SHALL BE CONSIDERED DAMAGED AND A NEW, LIKE SPRINKLER SHALL BE PROVIDED.

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Designer Designer
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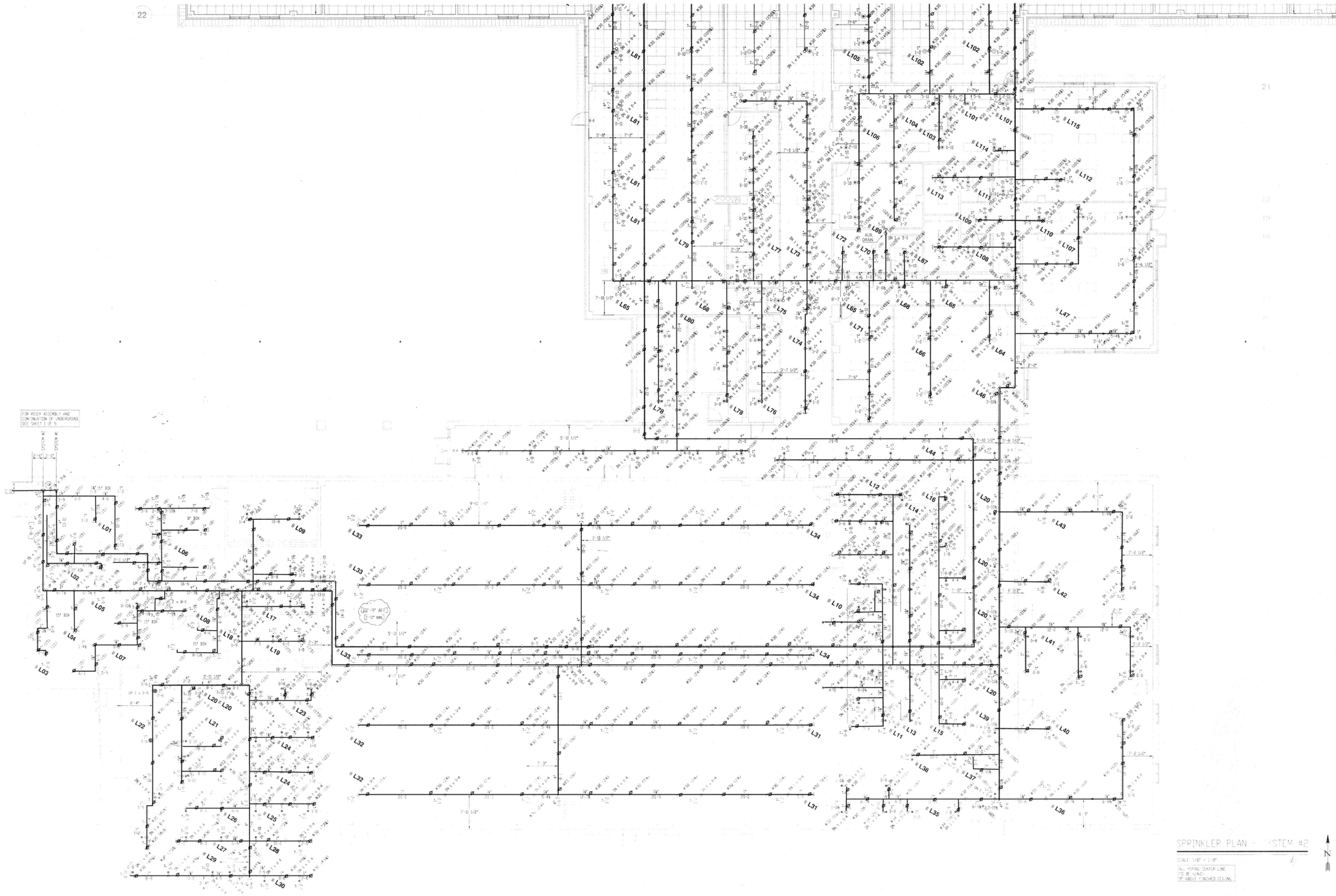
24-046.00

SHEET TITLE
FAPE - PLUMBING SCHEDULES AND DETAILS

SHEET NO.
P12.50



SPRINKLER PLAN - SYSTEM #2

SCALE: 1/16" = 1'-0"

ALL PIPING CENTER LINE TO BE ROUND UP ABOVE FINISHED CEILING

N

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CLEAR CREEK ISD
HOUSTON, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - FIRE SPRINKLER AS BUILTS

SHEET NO.

P12.60

DBR
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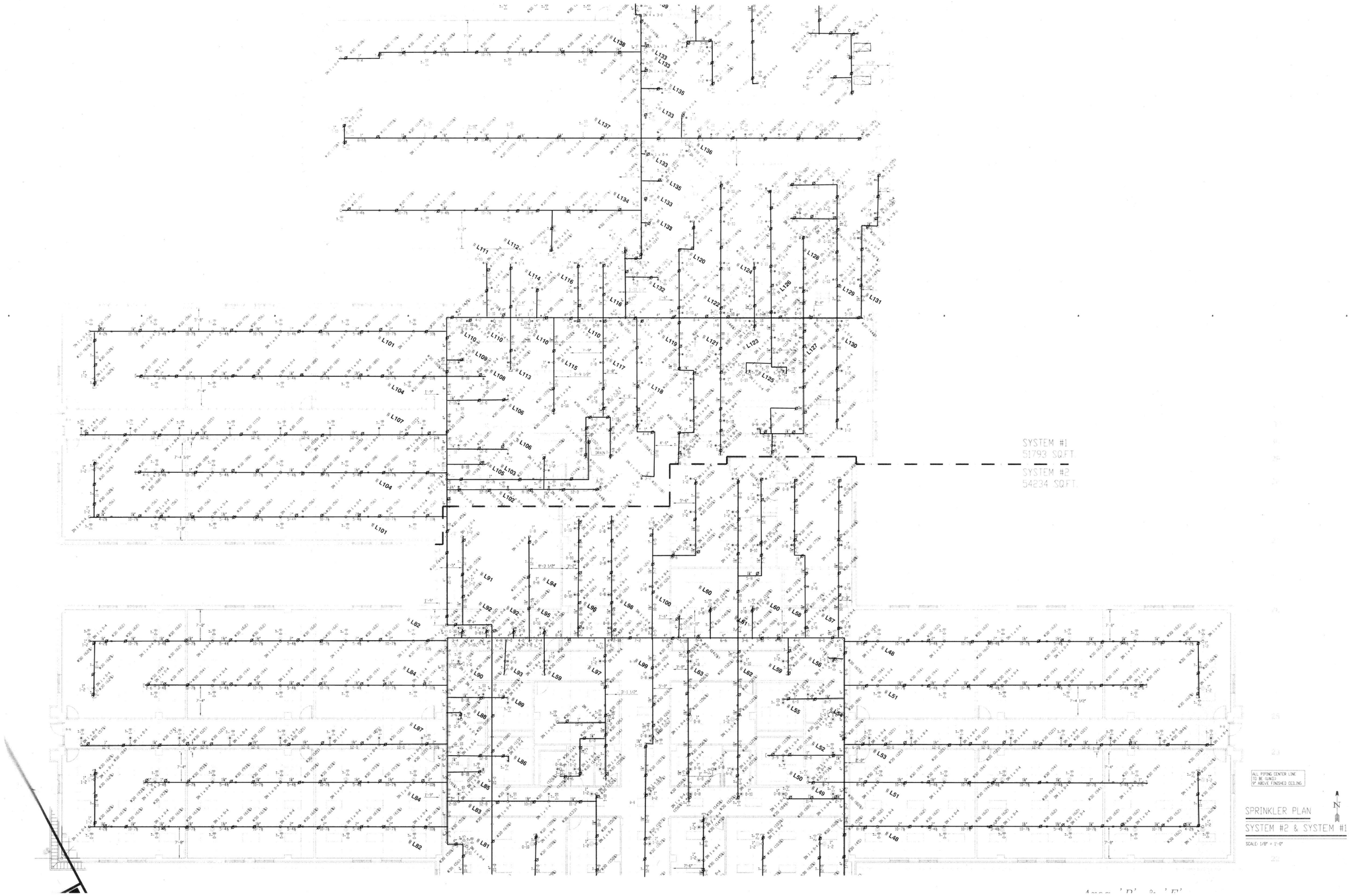
DBR Project # 240244
EK RM/TDLB/MS TN/JL LG/SS



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STATE OF TEXAS
WILLIAM MEISTER
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11/14/24

ISSUED: 11/14/2024

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Designer	
Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - FIRE SPRINKLER AS BUILTS

SHEET NO.

P12.61

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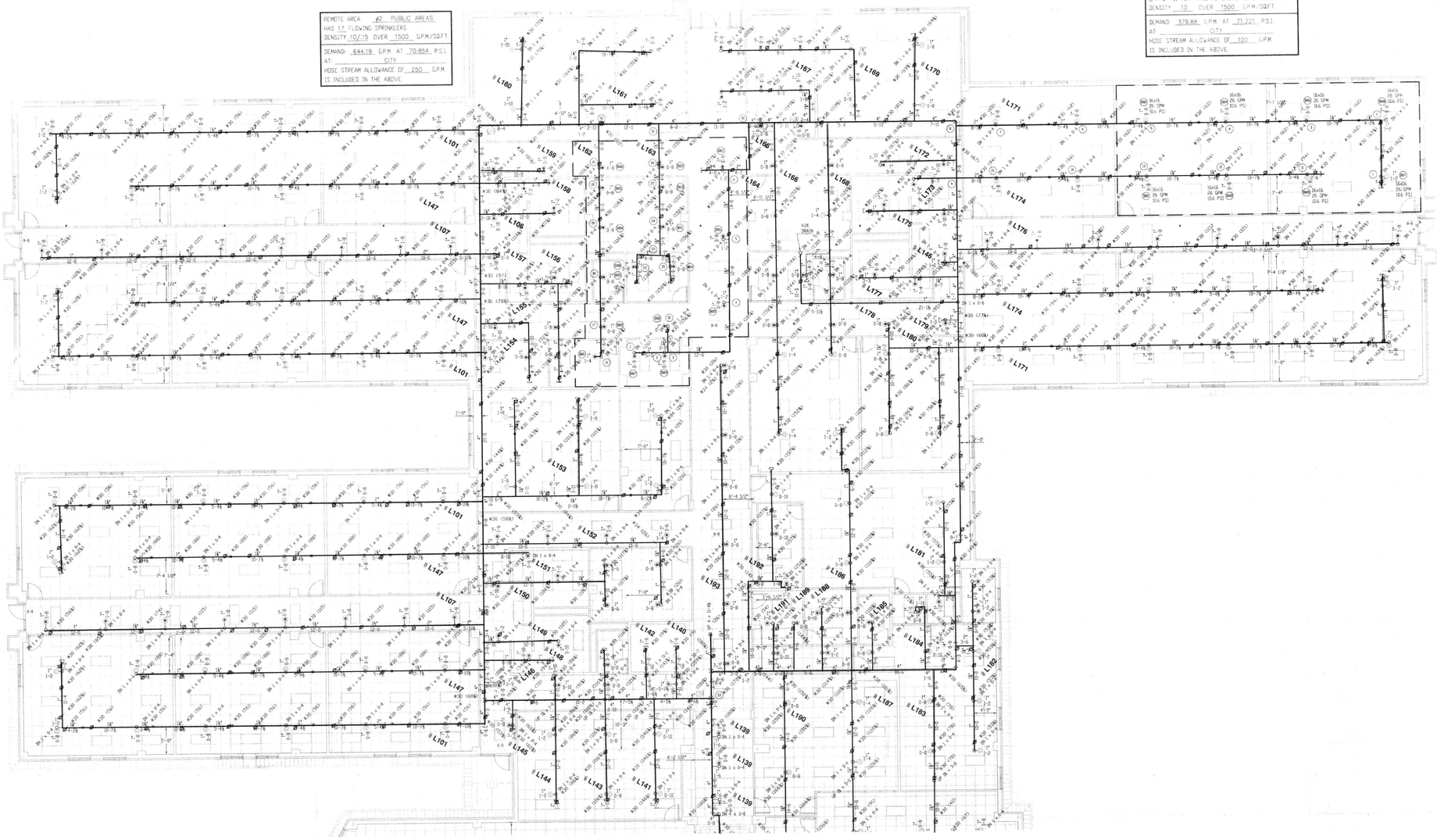
TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TDLB/MS TN/JL LG/SS



SPRINKLER PLAN - SYSTEM #1

SCALE: 1/8" = 1'-0"

Area 'C' & 'D'

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CCISD Priority Repairs - FAPE GOFE ROBE

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ISSUED: 11/14/2024

REVISIONS

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Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

FAPE - FIRE SPRINKLER AS BUILTS

SHEET NO.

P12.62

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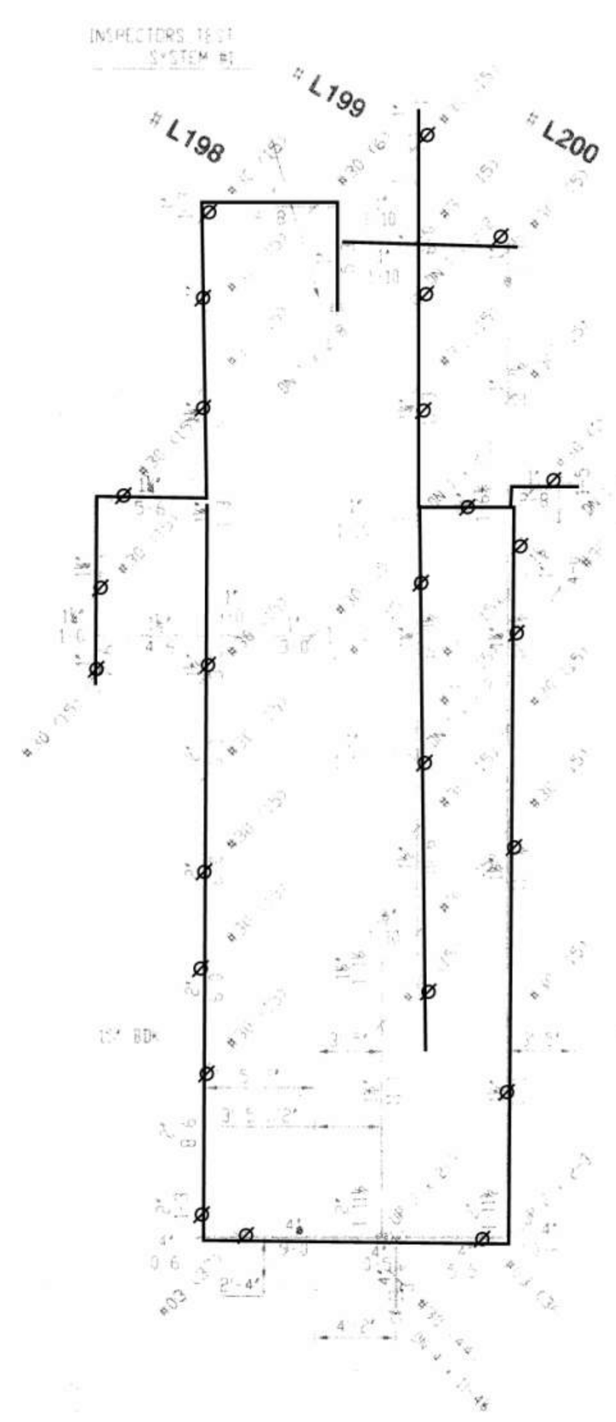
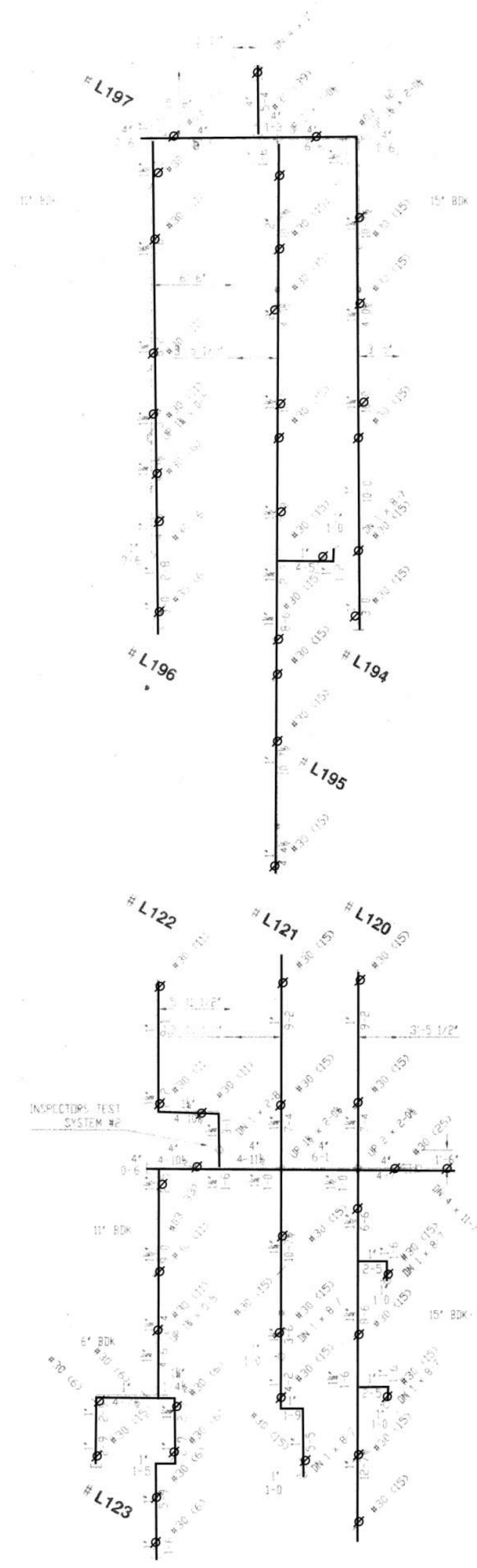
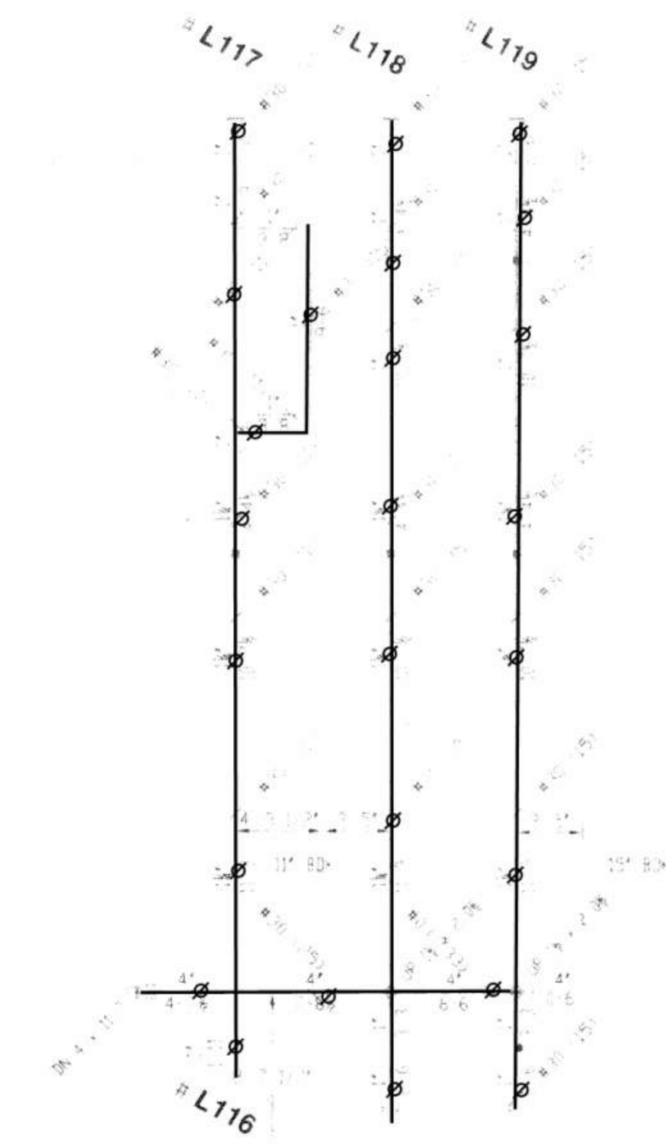
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS



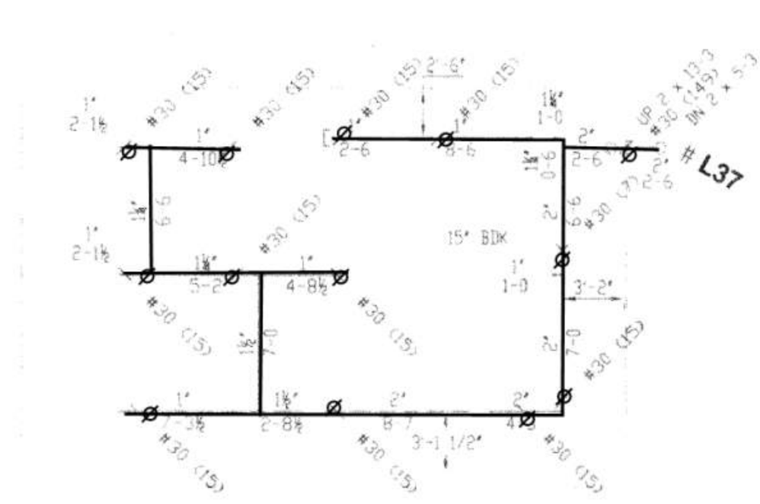
MEZZANINE - AREA 'C'



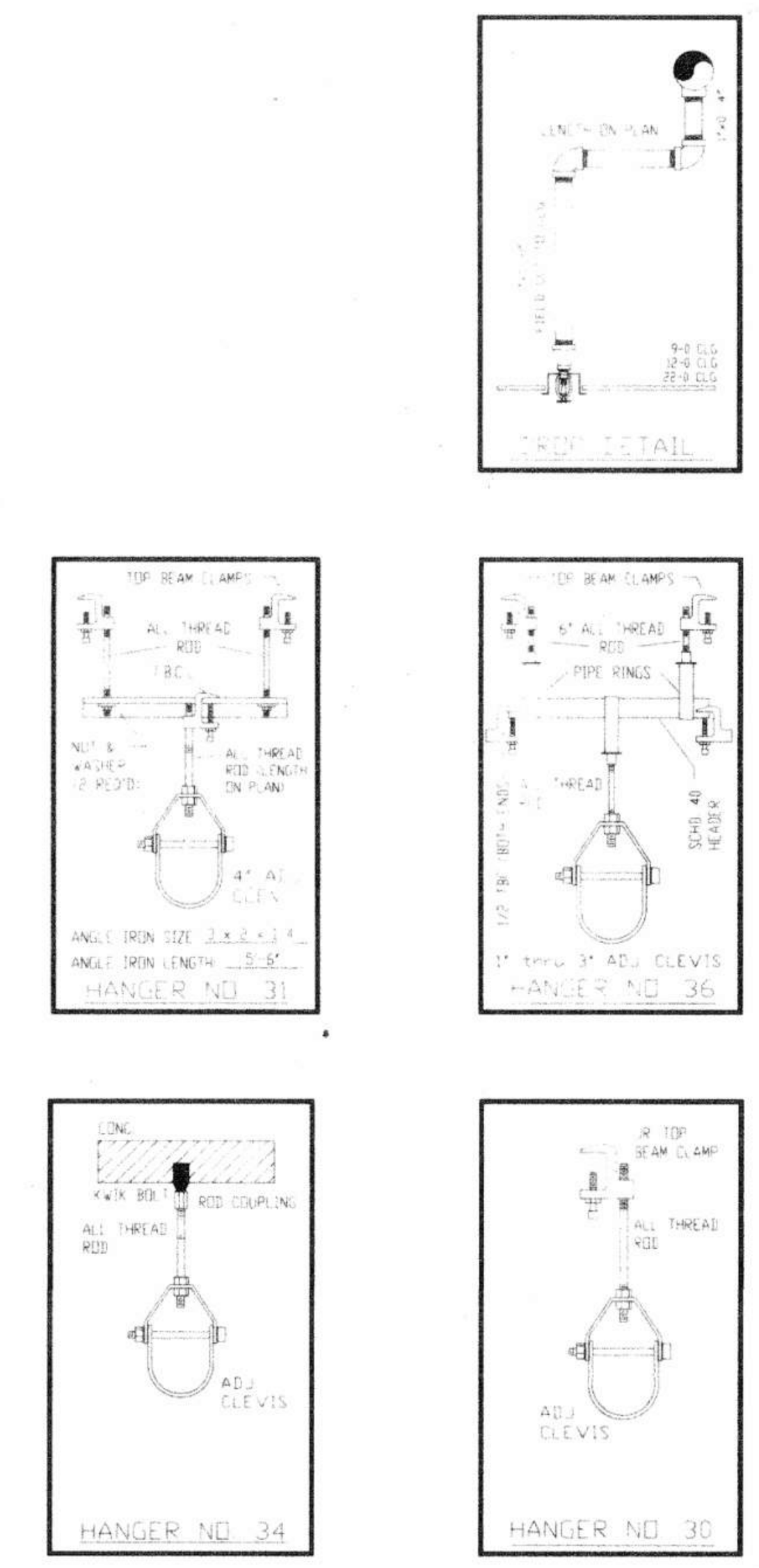
MEZZANINE - AREA 'B'



MEZZANINE - AREA 'A'



MEZZANINE - AREA 'A' AT GYM



NOTES

1. UNIVERSAL SPRINKLER CORP. CONTRACT TO BEGIN WITH 6" DUCTILE IRON AT 5'-0" LEAD-IN. ALL OTHER UNDERGROUND TO BE BY OTHERS.
2. ALL FIRE PROTECTION EQUIPMENT TO BE U.L. LISTED AND/OR FACTORY MUTUAL APPROVED.
3. THERMOSTATICALLY CONTROLLED HEAT (40° MIN.) TO BE PROVIDED BY OWNER TO PREVENT WET SYSTEM COMPONENTS FROM FREEZING.
4. ALL ELECTRICAL CONNECTIONS TO BE PROVIDED BY OTHERS.
5. ALL REQUIRED PAINTING TO BE BY OTHERS.
6. ALL OUTLETS ON 4" AND LARGER MAINS TO BE SHOP WELDED IN ACCORDANCE WITH NFPA 13, 1996, USING MERIT UL/FM WELD FITTINGS.
7. ALL GROOVED FITTINGS TO BE VICTAULIC FIRELOCK W/005 COUPLINGS.
8. ALL THREADED FITTINGS TO BE BLACK CAST IRON CLASS 125.
9. ALL LINE PIPE 2" AND SMALLER TO BE BLACK SCH. 40 ASTM-A135.
10. ALL MAIN PIPE 4" AND LARGER TO BE BLACK SCH. 10 ASTM-A135.
11. 4" AND LARGER BLACK PIPE TO BE ROLL GROOVED (EXPECT SPIGOT).
12. ALL PENDANT SPRINKLERS SHALL BE ALLIGNED WITHIN NORMAL FABRICATION AND INSTALLATION TOLERANCES AND WILL BE CENTERED IN THE CEILING TILE MODULES, OR ALIGNED WITH OTHER FIXTURES. I.E., BUILDING GRID LINES, LIGHT FIXTURES, AIR CONDITIONING GRILLES, ETC.
13. SYSTEM TO BE HYDRAULICALLY CALCULATED PER NFPA 13, 1996. CLASSROOMS AND ASSOCIATED TEACHING AREAS TO HAVE EXTENDED COVERAGE HEADS WITH REQUIRED STARTING PSI AND GPM PER MANUFACTURERS RECOMMENDATIONS. PUBLIC AREAS TO BE DESIGNED FOR MOST REMOTE 1500 SQ.FT. AREA WITH DENSITY OF .10 FOR LIGHT HAZARD OCCUPANCIES WITH MAX. HEAD SPACING OF 225 SQ.FT. AND DENSITY OF .15 FOR ORDINARY HAZARD OCCUPANCIES WITH MAX. HEAD SPACING OF 130 SQ.FT.
14. ALL PIPE PENETRATIONS TO BE SEALED WITH 3M FIRE BARRIER CAULK CP-25WB.
15. ALL PIPE SLEEVES TO BE GALV. SCH. 40 ASTM-A135.
16. ALL HANGERS IN ACCORDANCE WITH NFPA 13, 1996.

SPRINKLER PLAN

SCALE: 1/8" = 1'-0"

ALL PIPING CENTER LINE TO BE (U.N.O.) 9" ABOVE FINISHED CEILING

N

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STATE OF TEXAS
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DBR	

PROJECT NO.
24-046.00

SHEET TITLE
FAPE - FIRE SPRINKLER AS BUILTS

CCISD Priority Repairs - FAPE GOFE ROBE

SHEET NO.
P12.63

GENERAL CONSTRUCTION NOTES

GENERAL NOTES:

1. DESIGN AND CONSTRUCTION SHALL CONFIRM TO THE CITY OF LEAGUE CITY GENERAL DESIGN AND CONSTRUCTION STANDARDS AND THE CITY OF LEAGUE CITY STANDARD DETAILS AS CURRENTLY AMENDED. CONTRACTOR SHALL OBTAIN (AND USE) COPY FROM THE CITY OF LEAGUE CITY.
2. THERE WILL BE NO SEPARATE PAYMENT FOR WORK SHOWN ON THESE PLANS, UNLESS SPECIFICALLY ESTABLISHED IN THE BID PROPOSAL SECTION OF THE CONTRACT DOCUMENTS. INCLUDE COST OF THIS WORK IN THE TRACT UNIT PRICE OR ITEMS OF WHICH THIS WORK IS A COMPONENT OR IDENTICAL.
3. EXISTING UTILITY INFORMATION SHOWN IS NOT GUARANTEED TO BE ACCURATE AND ALL INCLUSIVE. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF HIS CONSTRUCTION. ANY CONFLICT OR DISCREPANCY DISCOVERED MUST IMMEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION.
4. ANY DAMAGE TO EXISTING PUBLIC UTILITIES MUST BE REPAIRED IMMEDIATELY. THE CONTREACTOR MUST NOTIFY THE APPROPRIATE UTILITY OWNER, WHO WILL MAKE THE REPAIRS AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR ON BEHALF OF THE OWNER, SHALL OBTAIN ALL CONSTRUCTION PERMITS PRIOT TO THE COMMENCEMENT OF WORK.
6. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF DIRECT PUBLIC ACCESS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIAL AND EQUIPMENT IN A SAFE AND WORKMAN LIKE MANNER TO PREVENT INJURIES, DURING AND AFTER WORKING HOURS UNTIL PROJECT COMPLETION. THERE SHALL BE NO PAYMENT MADE TO THE CONTRACTOR FOR STORED MATERIAL.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE AND POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES. NATURAL GROUND ADJACENT TO UTILITY TRENCH EXCAVATION TO BE GRUBBED PRIOR TO PLACEMENT OF EXCESS TRENCH MATERIAL. (NO SEPARATE PAY).
9. ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
10. THE CONTRACTOR IS REQUIRED TO FOLLOW ALL APPLICABLE OSHA RULES AND REGULATIONS. TRENCH SAFETY SHALL BE DONE IN ACCORDANCE WITH OSHA 29 CFR PART 1926, AS PUBLISHED IN THE FEDERAL REGISTER OCTOBER 31, 1989, AND EFFECTIVE JANUARY 2, 1990, AND AMENDMENTS THERETO.
11. ALL GEOTECHNICAL REPORTS (IF ANY) FOR THIS PROJECT ARE AVAILABLE AT THE OFFICE OF THE ENGINEER.
12. SURFACE RESTORATION: AT THE END OF ALL CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL RESTORE THE EXISTING FACILITIES, I.E., THE PROPERTY, INCLUDING DITCH, EQUAL TO OR BETTER THAN EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. ALL DISTURBED AREA SHALL BE SEEDED PROPERLY.
13. FINAL ACCEPTANCE OF THE UTILITIES WILL NOT BE GIVEN TO THE CONTRACTOR UNTIL THEY ARE INSPECTED AND APPROVED BY THE CITY OF LEAGUE CITY.
14. ALL TRENCH EXCAVATION, BEDDING AND BACKFILL SHALL BE IN CONFORMANCE WITH THE CITY OF LEAGUE CITY STANDARD DETAILS – EXCAVATION AND BACKFILL FOR UTILITIES AND UTILITY BACKFILL MATERIAL SPECS.
15. THE USE OF WELL POINT SYSTEMS, WHEN REQUIRED BY TRENCH CONDITIONIS, SHALL BE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
16. CONTRACTOR SHALL PROTECT ALL TREES ADJACENT TO WORK AREA. NO TREES SHALL BE REMOVED WITHOUT PERMISSION OF OWNER.
17. ALL AREAS DISTURBED ALONG SIDE AND BACK–OF–LOT EASEMENTS OR OTHER UNNECESSARY DISTURBANCES AS A RESULT OF CONSTRUCTION WORK SHALL BE SEEDED AND FERTILIZED IN ACCORDANCE WITH SEEDING SPECIFICATIONS (NO SEPARATE PAY).
18. EXCAVATE MUCK, ORGANIC MATERIAL AND UNSUITABLE SOIL PRIOR TO PLACING FILL. PLACE SUITABLE MATERIAL IN 8" MAXIMUM LOOSE LIFT AND COMPACT TO 95% STANDARD PROCTOR DENSITY.
19. ALL BACKFILL SHALL BE PLACED 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY AND BE TESTED BY AN APPROVED TESTING LAB.
20. ALL TESTING PROCEDURES USED ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEAGUE CITY STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTS REQUIRED. IF ANY TEST RESULTS DO NOT MEET THE TESTING STANDARDS, SUCH MATERIAL SHALL BE REMOVED AND REPLACED SO THAT THE TESTING STANDARDS CAN BE MET. COST OF TEST AND LABORATORY SERVICES SHALL BE INCIDENTAL AND INCLUDED IN UNIT PRICE OF BID ITEM. A COPY OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY OF LEAGUE CITY.
21. ALL UNSATISFACTORY AND OR WASTE MATERIALS INCLUDING VEGETATION, ROOTS, CONCRETE AND DEBRIS SHALL BE DISPOSED OF OFFSITE BY THE CONTRACTOR, NO DIRECT PAYMENT WILL BE MADE, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE VARIOUS BID PROPOSAL ITEMS.
22. CITY OF LEAGUE CITY SIGNATURES ARE VALID FOR 1 (ONE) YEARS ONLY AFTYER DATE & SIGNING OF PLANS.
23. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON–CURB INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
24. CONTRACTOR SHALL CONTACT THE FOLLOWING A MINIMUM OF 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
    - 24.A. CITY OF LEAGUE CITY PROJECT MANAGEMENT (281)–554–1439
    - 24.B. CITY OF LEAGUE CITY FIRE MARSHALL (281)–554–1290
    - 24.C. TEXAS ONE CALL SYSTEM 1–800–245–4545
    - 24.D. LONE STAR NOTIFICATION CENTER 1–800–669–8344
    - 24.E. TEXAS EXCAVATION SAFETY SYSTEM INC. 1–800–344–8377
    - 24.F. EL PASO PIPELINE: MR. J.R. LOGAN (281)–331–4693
    - 24.G. BP PIPELINE: MR. DARREL BARBO (409)–938–6995 (MOBIL) (281)–636–6747
25. CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND PAVEMENT BEFORE CONSTRUCTION. ANY VERIFICATIONS THAT ARE INCONSISTENT WITH THE PLANS NEED TO BE REPORTED TO THE ENGINEER BEFORE CONSTRUCTION BEGINS.
26. WITH CITY ENGINEERS APPROVAL, W. S. & D. SPOIL MAY BE SPREAD EVENLY IN THE STREET RIGHT–OF–WAY AFTER UTILITIES ARE IN PLACE.
27. LAWS TO BE OBSERVED, THE DEVELOPER/CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH AND AT ALL TIMES SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, AND REGULATIONS WHICH IN ANY MANNER AFFECT THE CONDUCT OF THE WORK AND SHALL INDEMNIFY AND SAVE HARMLESS THE CITY AND ITS REPRESENTATIVES AGAINST ANY CLAIM ARISING FROM THE VIOLATION OF ANY SUCH LAW, ORDINANCE, OR REGULATIONS, WHETHER BY HIMSELF OR BY HIS EMPLOYEES.
28. CONTRACTOR SHALL REMOVE ALL MUD, DIRT, AND DEBRIS DEPOSITED ON EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY DAILY.
29. DISPOSAL OF EXCESS EXCAVATION MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DISPOSAL OF EXCESS EXCAVATION MATERIAL WITHIN LEAGUE CITY SHALL COMPLY WITH ORDINANCE 2009–25 ARTICLE 2.

AT&T TEXAS/SWBT FACILITIES NOTES:

1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL CALL 1–800–344–8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON–MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES, THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER ROOSEVELT LEE JR. AT (713) 567–4552 OR EMAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR AT&T TEXAS/SWBT FACILITIES.

CENTERPOINT ENERGY UTILITY NOTES:

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223–4567, 1–800–669–8344 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 967–8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON–MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL LINES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207–2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207–6248 OR (713) 207–5769.

STORM SEWER AND DRAINAGE NOTES:

1. STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE LATEST HARRIS COUNTY STANDARDS OF CONSTRUCTION WITH ALL AMENDMENTS THERETO, AND THESE PLANS AND SPECIFICATIONS.
2. ALL STORM SEWER PIPES LOCATED UNDER OR WITHIN TWO FEET OF PROPOSED OR FUTURE PAVING SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND (1–1/2 SACK/CUBIC YARD) UP TO BOTTOM OF SUBGRADE.
3. ALL STORM SEWER PIPES IN THE RIGHT OF WAY TO BE R.C.P. C–76, CLASS III, WITH RUBBER GASKET JOINTS, BEDDED PER HARRIS COUNTY DETAILS, AS APPROPRIATE. PRIVATE STORM SEWER SHALL BE HDPE, SMOOTH INTERIOR, WATERTIGHT JOINT, UNLESS OTHERWISE NOTED.
4. ALL INLETS SHALL BE TYPE "A" UNLESS OTHERWISE NOTED.
5. FIRST STAGE INLET TO BE CONSTRUCTED TO WITHIN APPROXIMATELY ONE FOOT BELOW BOTTOM OF PROPOSED PAVEMENT. COVER WITH TIMBER GRATE.
6. ALL STORM SEWER MANHOLES SHALL BE STANDARD, TYPE "C' UNLESS OTHERWISE NOTED.
7. MANHOLE & INLET COVERS SHALL BE CAST WITH THE LOGO "STORM" AND BE RATED FOR H–20 DESIGN LOADING.
8. CEMENT STABILIZED SAND BEDDING AND/OR BACKFILL FOR INSTALLATION UNDER OR WITHIN ONE FOOT OF PAVEMENT SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF STORM SEWER PIPE.

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CLEAR CREEK I.S.D.
LEAGUE CITY, TEXAS

CCISD PROJECT
NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
PHASITH NANTHAVONGDOUANGSY
99284
LICENSED
PROFESSIONAL ENGINEER
11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

Director	Drawn By
DIR	
Designer	Quality Control
DSN	QC
Proj. Arch.	
PA	

PROJECT NO.

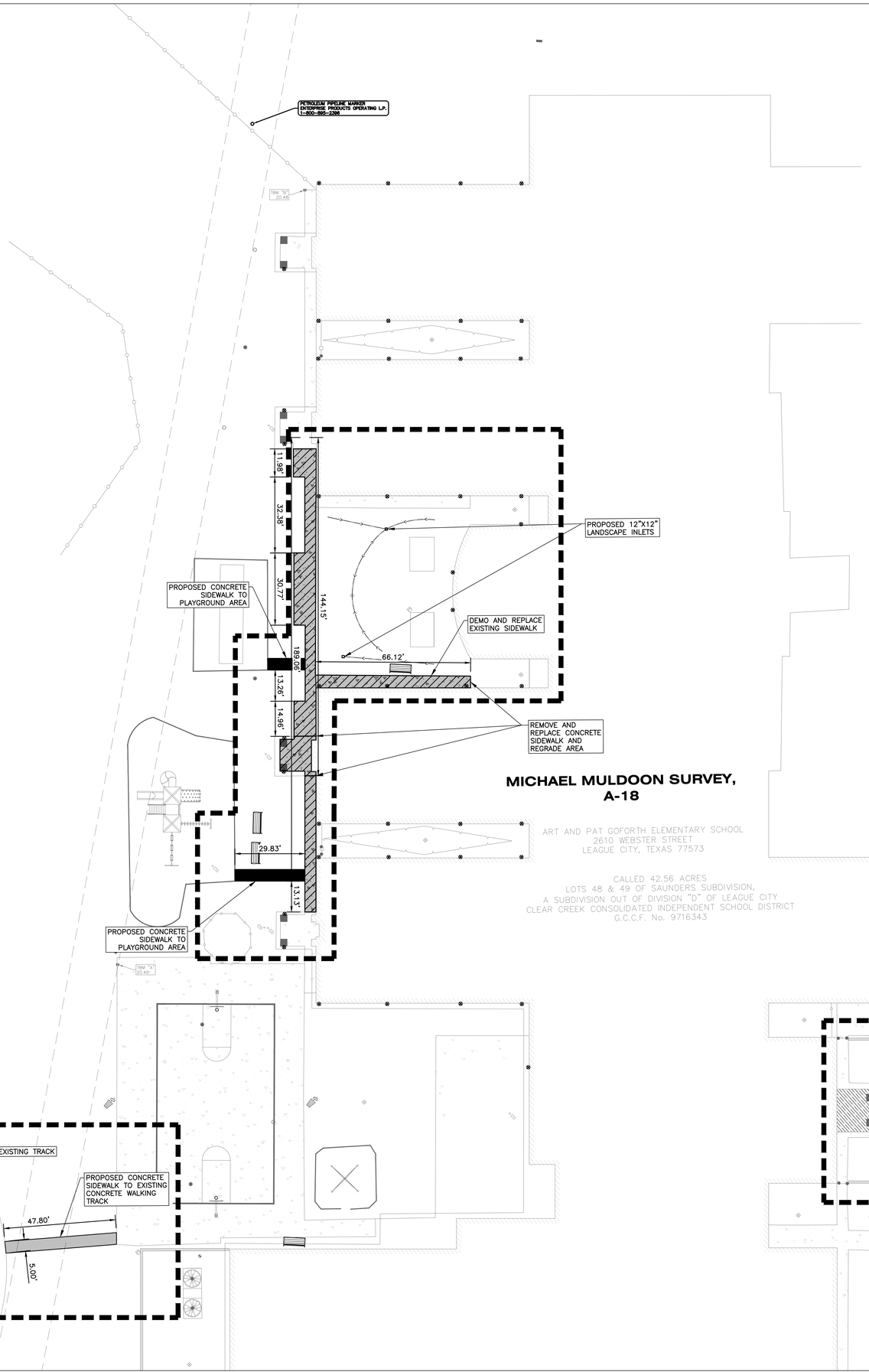
24-046.00

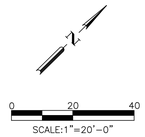
SHEET TITLE

GOFE - GENERAL NOTES

SHEET NO.

C21.00





LEGEND

- SCOPE OF WORK
- PROPOSED 4.5"--INCH THICK CONCRETE PAVING W/ #3 REBAR @ 18" OC EA WAY (OR #4 BARS AT 24" OC EA WAY)
- EXISTING SIDEWALK TO BE REMOVED AND REPLACED

SITE PLAN NOTES:

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
3. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SOD AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
4. NOT ALL DIMENSIONS ARE SHOWN ON THIS PLAN, SEE ARCHITECTURAL SITE PLAN FOR DETAILED DIMENSIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
6. REFER TO TOPOGRAPHICAL SURVEY ON SHEET C2 FOR EXISTING CONDITIONS, REFER TO PLAT FOR PROPERTY BOUNDARIES.
7. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE STANDARD SITE WORK SPECIFICATION.

NOTE:

ST AUGUSTINE SOD- NO HYDROMULCH WHERE GROUND IS DISTURBED

WARNING:

CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES BY CONTACTING "TEXAS 811" AT 811 OR 713-223-4567 AT LEAST 48 HOURS BEFORE YOU DIG, DRILL OR BLAST.

EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

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CLEAR CREEK I.S.D.
LEAGUE CITY, TEXAS

CCISD PROJECT
NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
ROBERT NANTHAVONGDUANGSY
99284
LICENSED
PROFESSIONAL ENGINEER
11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

Director	Drawn By
DIR	
Designer	Quality Control
DSN	QC
Proj. Arch.	
PA	

PROJECT NO.

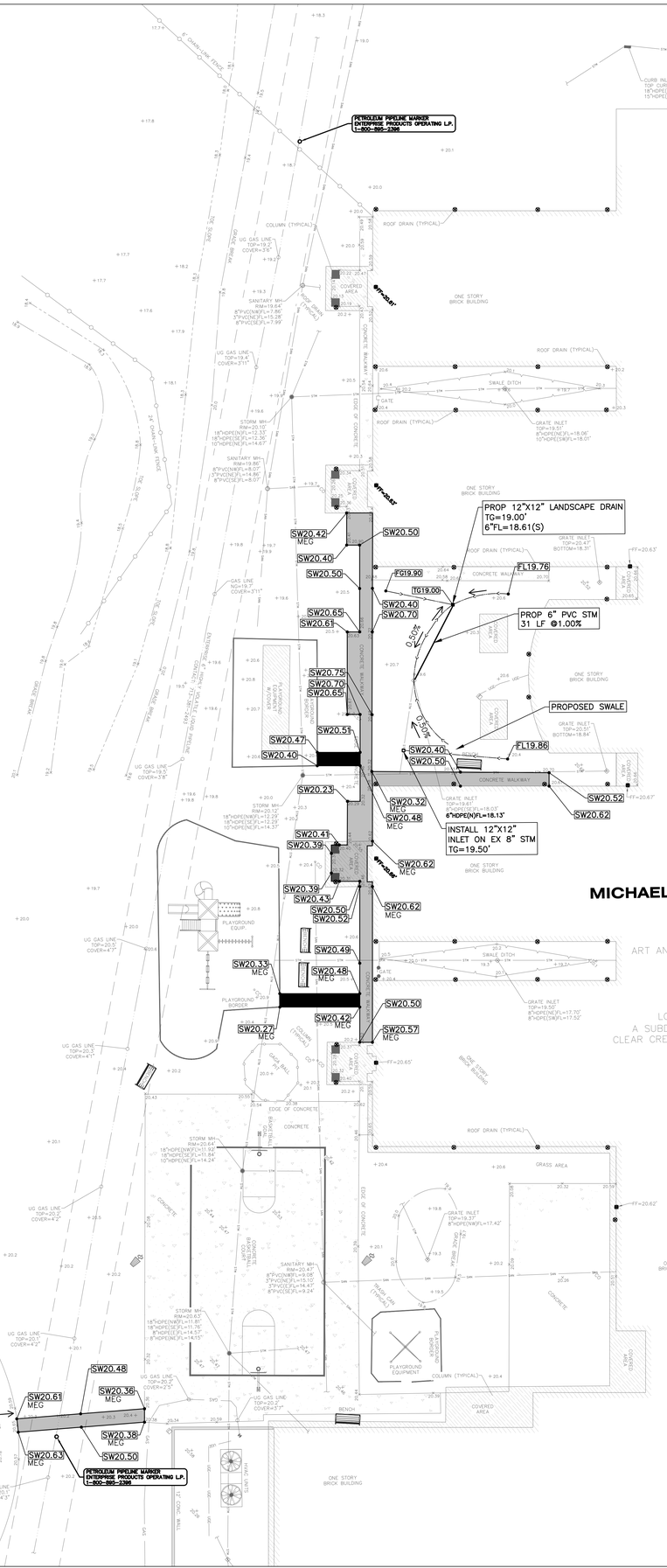
24-046.00

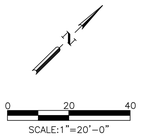
SHEET TITLE

GOFE - OVERALL SITE PLAN

SHEET NO.

C22.00





100-YEAR FLOOD PLAIN INFORMATION:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP, LEAGUE CITY, TEXAS, AND INCORPORATED AREAS, COMMUNITY PANEL NO. 48548800010D MAP REVISED DATED SEPTEMBER 22, 1999, THIS PROPERTY LIES IN UNSHADED ZONE "X", LOCATED OUT SIDE THE 100 YEAR FLOODPLAIN

BENCHMARK INFORMATION:
1. PROJECT BENCHMARK: HCFCD RN NO. 010015 BEING A BRASS DISC STAMPED "RM 010015" , LOCATED FROM INTERSECTION NASA ROAD 1 AND HIGHWAY 146, TRAVEL SOUTH +/- 0.3 MILE TO THE FEEDER ROAD EXIT AND TRAVEL +/- 540' SOUTH TO SHIPYARD DRIVE, THEN WEST ON SHIPYARD DRIVE 0.2 MILE TO BRIDGE AT THE ENTRANCE TO SEABROOK SHIPYARD, MONUMENT IS AT THE NORTHWEST CORNER OF THE BRIDGE. ELEV= 5.88 FEET, NAVD88, 2001 ADJ.
2. TEMPORARY BENCHMARK (TBM) "A": BEING A BOX CUT IN CONCRETE AT THE NORTHWEST CORNER OF BASKETBALL COURT APPROXIMATELY 25' SOUTHEAST OF THE SOUTHWEST CORNER OF PLAYGROUND. ELEV= 20.40 FEET, NAVD88, 2001 ADJ.
3. TEMPORARY BENCHMARK (TBM) "B": BEING A BOX CUT IN CONCRETE AT THE CORNER OF SIDEWALK LOCATED AT THE MOST WESTERLY CORNER OF GOFORTH ELEMENTARY SCHOOL. ELEV= 20.48 FEET, NAVD88, 2001 ADJ.

GENERAL GRADING NOTES:

1. CONTRACTOR TO REGRADE ALL DISTURBED AREAS AFTER CONSTRUCTION IS COMPLETE TO EQUAL OR BETTER CONDITION. RE-SOD ALL DISTURBED AREAS WITH ST. AUGUSTINE GRASS INCLUDING INSIDE CITY OF LEAGUE CITY RIGHT-OF-WAY AND ANY PRIVATE PROPERTY THAT IS DISTURBED.
2. REGRADE ALL DITCHES AFTER CONSTRUCTION IS COMPLETE THAT ARE DISTURBED DURING CONSTRUCTION. REGRADE DITCH TO ESTABLISH FLOW IN A POSITIVE DIRECTION.
3. ALL OPEN EXCAVATION TO BE CLEARLY IDENTIFIED BY CONTRACTOR. CONTRACTOR IS REQUIRED TO COVER ALL OPEN EXCAVATION AREAS AT THE END OF EACH WORK DAY AND WHENEVER CONTRACTOR IS NOT WORKING ONSITE USING STEEL PLATES.
4. ALL PAVING "TP" AND "TC" SHOWN ARE TAKEN FROM BACK OF CONCRETE PAVEMENT.
5. CONTRACTOR IS REQUIRED TO ENSURE THAT ALL CONSTRUCTED SLOPES AND ELEVATIONS COMPLY WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION REQUIREMENTS FOR ACCESSIBILITY. GRADES SHOWN ON THE PLANS HAVE BEEN CAREFULLY DETERMINED BASED ON MINIMUM ACCESSIBILITY STANDARDS.
6. CHANGES IN LEVEL OR TOP OF PAVEMENT AT ALL BUILDING EXITS SHALL BE 1/4" MAXIMUM.
7. ALL CROSS SLOPES AT ACCESSIBLE ROUTES SHALL BE 2% MAXIMUM.
8. WHERE AN ACCESSIBLE ROUTE CHANGES DIRECTION, A 5'X5' LANDING SHALL BE PROVIDED WITH MAXIMUM 2% SLOPE IN ANY DIRECTION.
9. NO PORTION OF THE A.D.A. ACCESSIBLE PARKING AREA SHALL EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
10. ACCESSIBLE ROUTES MAY HAVE SLOPES UP TO 5%.
11. ALL ADA WHEELCHAIR RAMPS SHALL BE MAXIMUM 1:12 (8.333%). ALL RAMPS MUST HAVE A 5'X5' LANDING WITH A MAXIMUM 2% SLOPE AT THE TOP AND BOTTOM. ANY RAMP RUN THAT RISES MORE THAN 6-INCHES VERTICALLY REQUIRES HAND RAILS (RE: ARCH PLANS).
12. THE FINISHED GRADES SHOWN ON THIS PLAN REPRESENT FINAL ELEVATIONS. THE CONTRACTOR MUST TAKE CARE TO ENSURE THAT THE FINISHED GRADES SHOWN HEREON ARE NOT EXCEEDED BY LANDSCAPING, MULCH, FILL MATERIAL OR OTHER LANDSCAPE DEVICES THAT BLOCK POSITIVE DRAINAGE AWAY FROM THE BUILDING OR SLAB. THE THICKNESS OF GRASS SOD, LANDSCAPING MATERIALS, OR OTHER OUTDOOR DEVICES SHOULD BE DEDUCTED FROM THE FINISHED GRADE ELEVATIONS SHOWN ON THESE PLANS IN ORDER TO DETERMINE THE FINAL GRADE ELEVATIONS DURING CONSTRUCTION.

LEGEND:

PROPOSED SWALES	
53.00	EXISTING CONTOUR
MEG	MATCH EXISTING GRADE
SW14.00	PROPOSED TOP OF SIDEWALK ELEVATION
FG14.00	PROPOSED FINISH GRADE ELEVATION
TG14.00	PROPOSED TOP OF GRATE ELEVATION
FL14.00	PROPOSED FLOW LINE ELEVATION

WARNING:

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EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

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LEAGUE CITY, TEXAS

CCISD PROJECT
NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

PHARITH NANTHAVONGDOUANGSY
99284
LICENSED PROFESSIONAL ENGINEER
11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

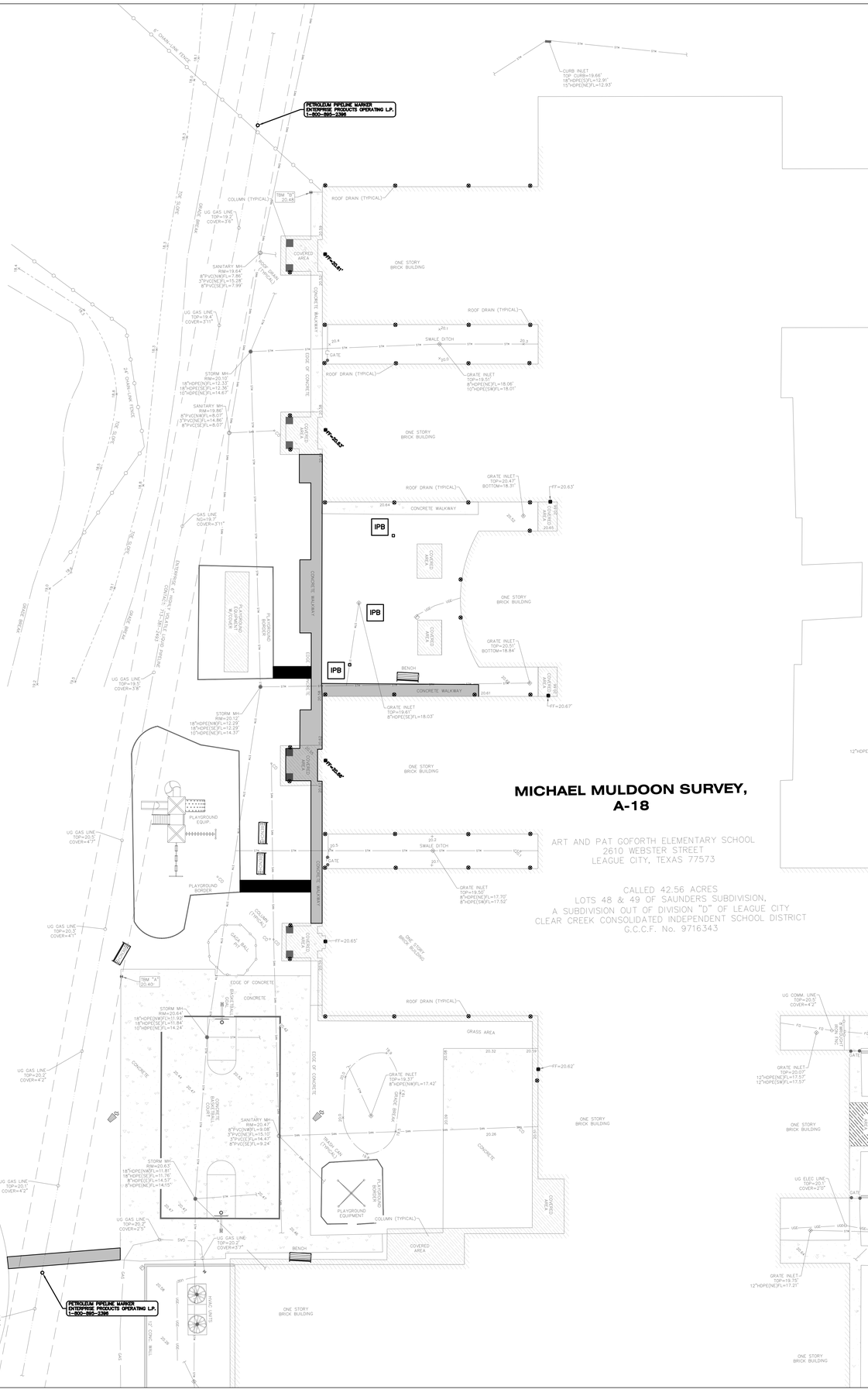
Revision No.

Director DIR	Drawn By
Designer DSN	Quality Control QC
Proj. Arch. PA	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - GRADING PLAN

SHEET NO.
C23.00



MICHAEL MULDOON SURVEY, A-18

ART AND PAT GOFORTH ELEMENTARY SCHOOL
2610 WEBSTER STREET
LEAGUE CITY, TEXAS 77573

CALLED 42.56 ACRES
LOTS 48 & 49 OF SAUNDERS SUBDIVISION,
A SUBDIVISION OUT OF DIVISION "D" OF LEAGUE CITY
CLEAR CREEK CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
G.C.C.F. No. 9716343

SWPPP LEGEND:

- FF — FILTER FABRIC FENCE
- RFF — REINFORCED FILTER FABRIC FENCE
- IPB-II — INLET PROTECTION BARRIER (STAGE II INLET)
- IPB — INLET PROTECTION BARRIER
- SC — STABILIZED CONSTRUCTION ENTRANCE/EXIT
- FD-TYPE1 — FILTER DAM – TYPE 1
- CTW — CONCRETE TRUCK WASHOUT

NOTE: SEE C13 FOR STORM WATER POLLUTION PREVENTION DETAILS

POLLUTION PREVENTION NOTES:

1. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL POLLUTION PREVENTION SYSTEMS AT LOCATIONS SHOWN ON PLANS.
2. IF POLLUTION PREVENTION SYSTEMS ARE EXISTING FROM PRIOR CONTRACTS, OWNER AND/OR OWNER'S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE THE EXISTING POLLUTION PREVENTION SYSTEMS FOR DAMAGE PRIOR TO CONTRACTOR STARTING CONSTRUCTION OF THE CONTRACT. ANY DAMAGE NOTED AT THIS ITEM SHALL BE REPAIRED AT OWNER'S EXPENSE.
3. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM (TPDES) REQUIREMENTS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ENFORCEMENT OF TPDES REQUIREMENTS PER "GENERAL REQUIREMENTS FOR PERMIT TXR150000".
5. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING GENERAL SOURCE CONTROLS.
6. THE LOCATION OF THE STABILIZED CONSTRUCTION ACCESS IS TO BE DETERMINED BY THE CONTRACTOR.
7. ALL RESERVES AND AREAS BETWEEN BACK-OF-CURB AND RIGHT-OF-WAY SHALL BE HYDRO-MULCHED SEEDED. ALL LOTS AND OTHER AREAS DISTURBED DURING CONSTRUCTION SHALL BE BROADCAST SEEDED.
8. CONTRACTOR SHALL INSPECT ALL POLLUTION PREVENTION SYSTEMS SPECIFIED HEREIN, AS REQUIRED IN THE PERMIT.
9. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT.
10. CONTRACTOR SHALL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
11. CONTRACTOR SHALL LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. CONTRACTOR SHALL USE A LINER UNDER ABOVE GROUND STORAGE TANKS. CONTRACTOR SHALL USE FILTER FABRIC FENCING, HAY BALES, OR BERMS AROUND FUEL STORAGE AREAS.
12. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TAKEN TO REMEDY THE PROBLEM.
13. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
14. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATELY MAINTAINED SANITARY FACILITIES.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET CLEANING, ON A DAILY BASIS, ALL MUD AND DIRT DEPOSITED ON THE EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY.
16. CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE/EXIT.
17. SEDIMENT WILL BE REMOVED FROM BEHIND THE FILTER FABRIC FENCE WHEN IT BECOMES ABOUT ONE-THIRD OF THE HEIGHT OF THE FENCE.
18. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE HAS BEEN ESTABLISHED, STRUCTURAL CONTROLS WILL BE REMOVED AND ALL DISTURBED AREAS WILL BE RESTABILIZED.
19. AT THE COMPLETION OF THE PROJECT/CONTRACT, THE OWNER AND/OR OWNER'S REPRESENTATIVE AND THE CONTRACTOR SHALL EXAMINE THE POLLUTION PREVENTION SYSTEM BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.

N

0 20 40

SCALE:1"=20'-0"

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CCISD PROJECT
NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

Director	Drawn By
DIR	
Designer	Quality Control
DSN	QC
Proj. Arch.	
PA	

PROJECT NO.

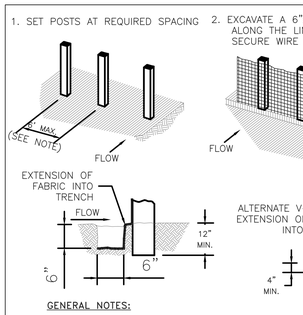
24-046.00

SHEET TITLE

GOFE - SWPP PLAN

SHEET NO.

C24.00

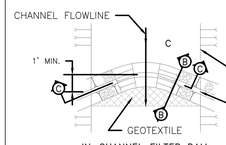


REINFORCED FILTER FABRIC BARRIER

SYMBOL

GENERAL NOTES:

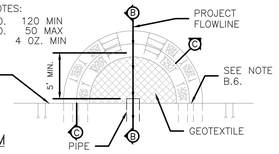
1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.



IN-CHANNEL FILTER DAM PLAN

GEOTEXTILE NOTES:

MIN. AOS	SIEVE NO.	120 MIN
MAX. AOS	SIEVE NO.	50 MAX
WEIGHT	OZ/SY	4 OZ. MIN

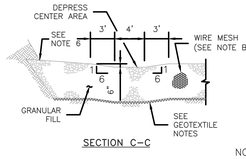


FILTER DAM AT DETENTION BASIN OUTFALL PIPE PLAN

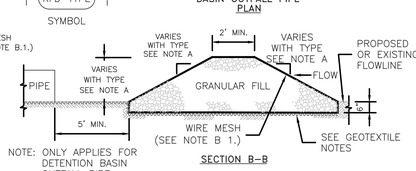
FILTER DAM

RFD-TYPE

SYMBOL



SECTION C-C



NOTE: ONLY APPLIES FOR DETENTION BASIN OUTFALL PIPE PROTECTION.

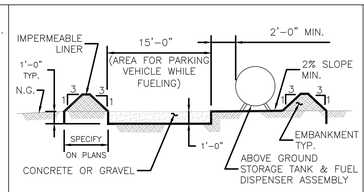
SECTION B-B

A. TYPES OF FILTER DAMS

1. TYPE 1 (NON-REINFORCED)
   a. HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM)
   c. SLOPES - 2:1 (MAXIMUM).
2. TYPE 2 (REINFORCED).
   a. HEIGHT - 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM).
   c. SLOPES - 2:1 (MAXIMUM).
3. TYPE 3 (REINFORCED)
   a. HEIGHT - 36-48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM).
   c. SLOPES - 3:1 (MAXIMUM).
4. TYPE 4 (GABION)
   a. HEIGHT - 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.

B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.

1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
2. PLACE GRANULAR FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
   a. 3-5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
   b. 4-8 INCHES FOR ROCK FILTER DAM TYPE REFER TO GRANULAR FILL IN SPECIFICATION SECTION No. 02378 RIPRAP AND GRANULAR FILL.
3. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. SEE HCFCD SPECIFICATION SECTION NO. 02364-FILTER DAMS.
6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.



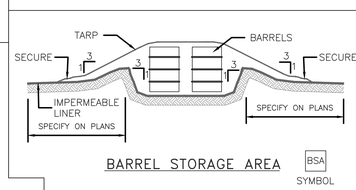
ABOVE GROUND TEMP. VEHICLE & EQUIPMENT FUELING AREA WITH TANK

TFA

SYMBOL

GENERAL NOTES:

1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM SLOPE OF 2 % TOWARD THE SUMP PIT.
3. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.



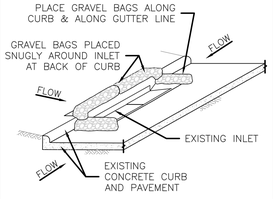
BARREL STORAGE AREA

BSA

SYMBOL

GENERAL NOTES:

1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS. 60 mil MINIMUM.
3. CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS.



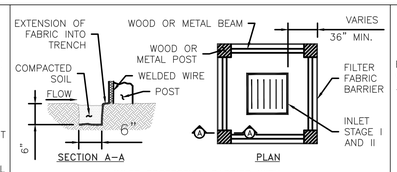
INLET PROTECTION BARRIERS FOR STAGE II INLETS

IPB-II

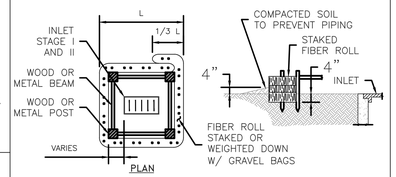
SYMBOL

GENERAL NOTES:

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.



INLET PROTECTION BARRIER WITH REINFORCED FILTER FABRIC



INLET PROTECTION BARRIER WITH FILTER ROLLS

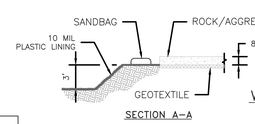
GENERAL NOTES:

1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

IPB

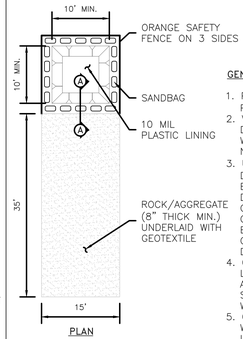
SYMBOL



CONCRETE TRUCK WASHOUT AREA

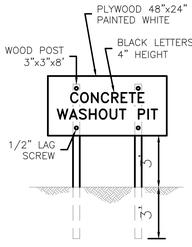
CTW

SYMBOL

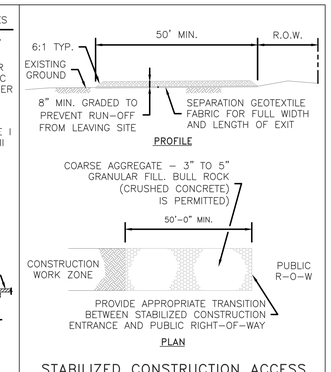


GENERAL NOTES:

1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.



SIGN DETAIL (OR EQUIVALENT)



STABILIZED CONSTRUCTION ACCESS

SC-1

SYMBOL

GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

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www.adico-llc.com

CLEAR CREEK I.S.D.
LEAGUE CITY, TEXAS

CCISD PROJECT NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
PADMINI NANTHAVONGDOUANGSY
99284
LICENSED PROFESSIONAL ENGINEER
11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

Director	Drawn By
DIR	
Designer	Quality Control
DSN	QC
Proj. Arch.	
PA	

PROJECT NO.

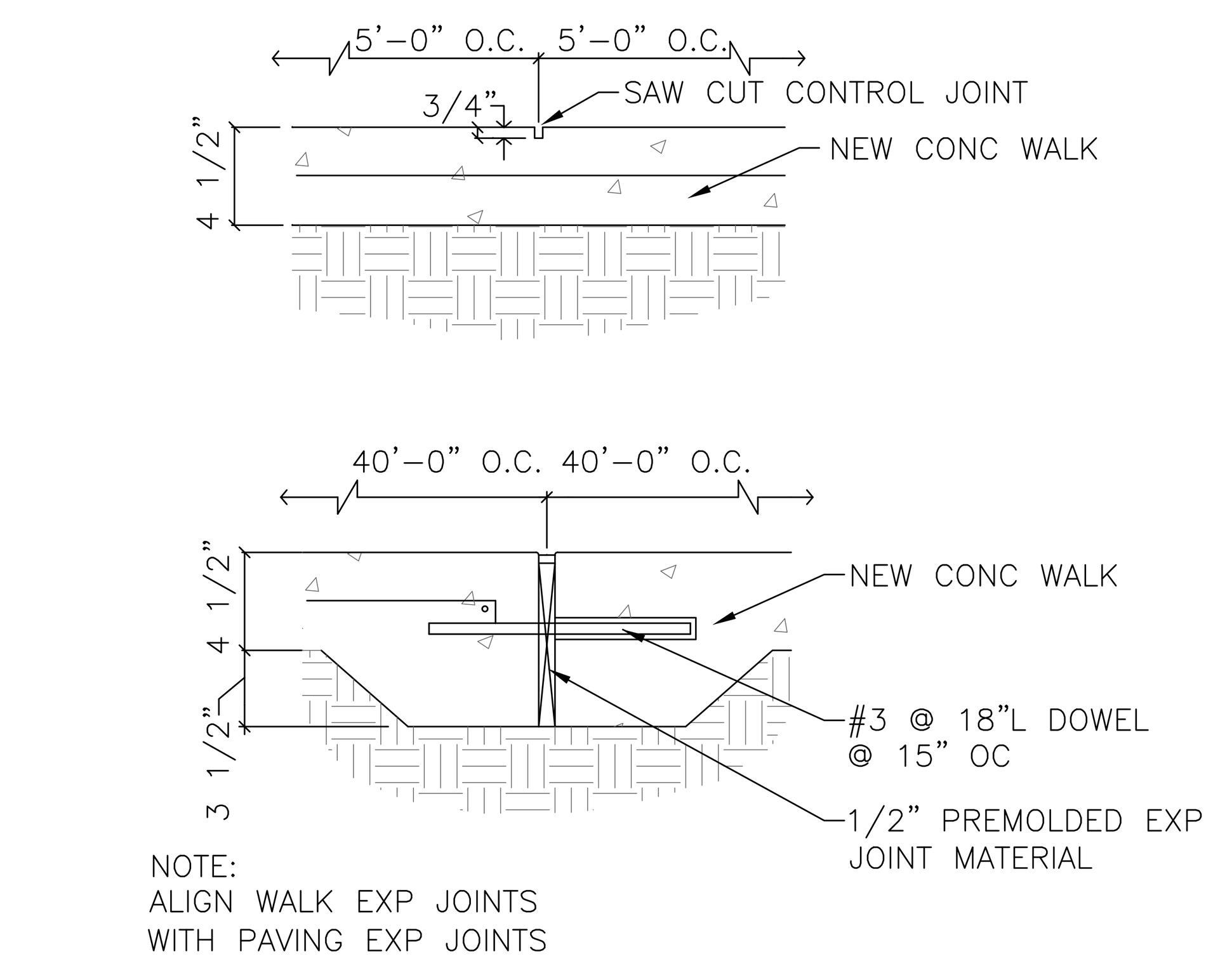
24-046.00

SHEET TITLE

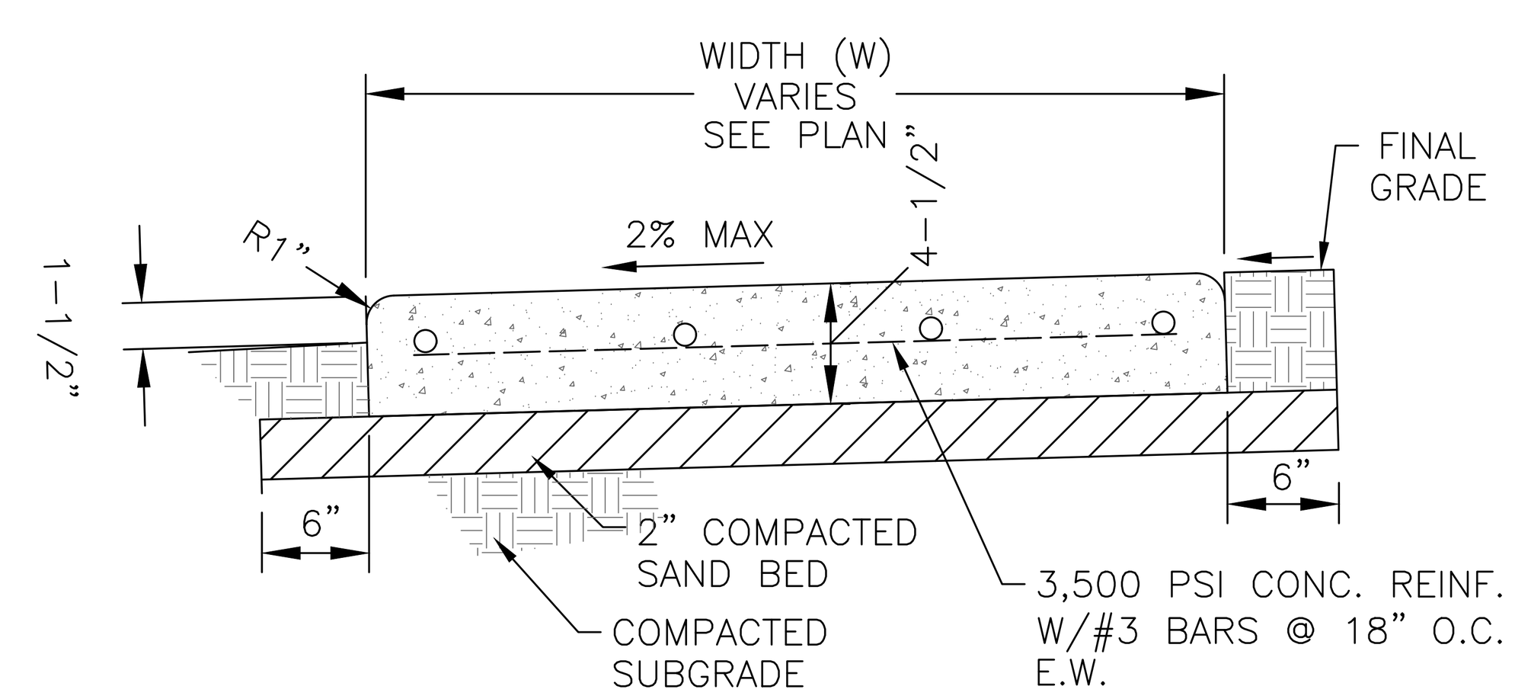
GOFE - SWPPP DETAILS

SHEET NO.

C25.00

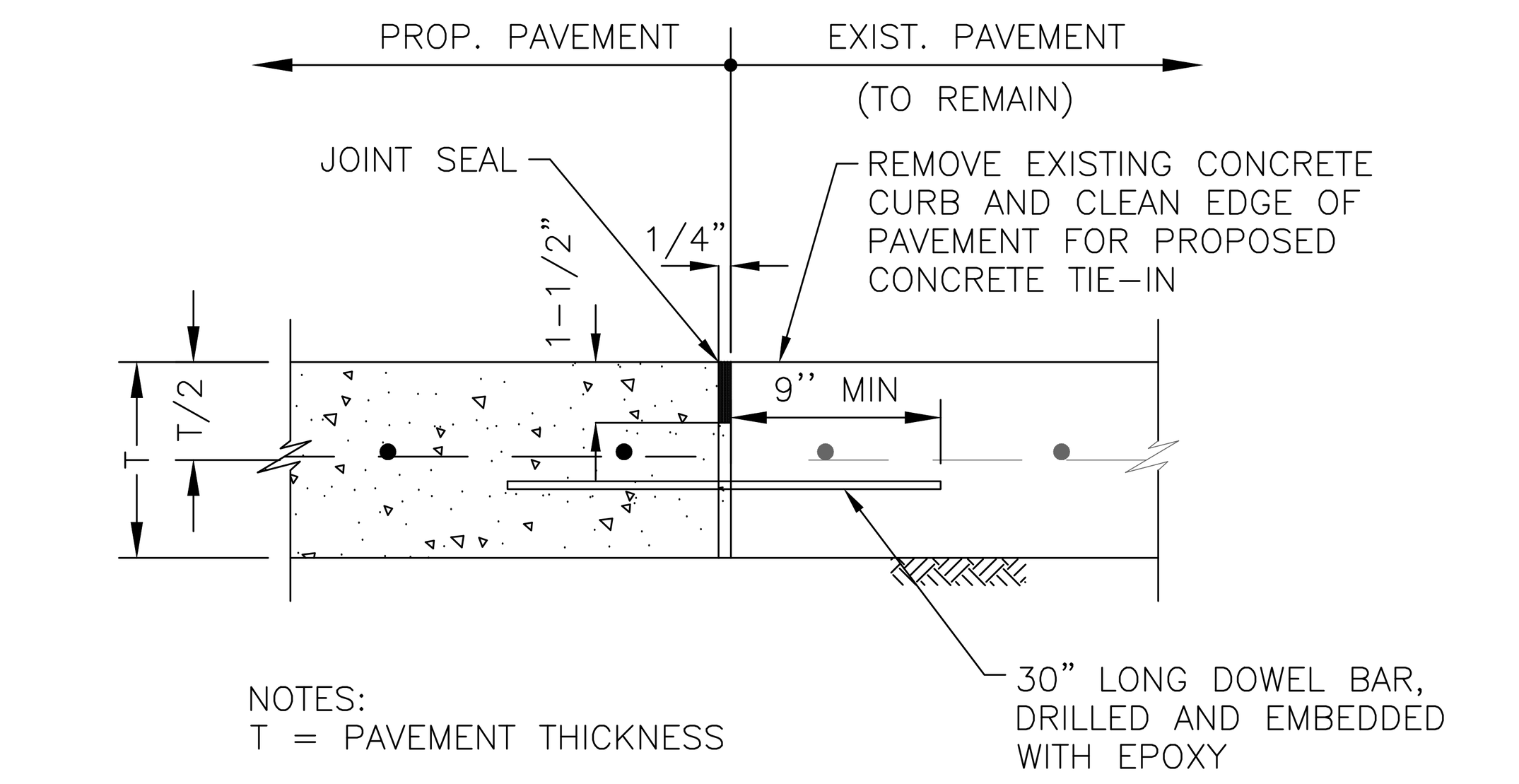


SIDEWALK CONTROL & EXPANSION JOINT



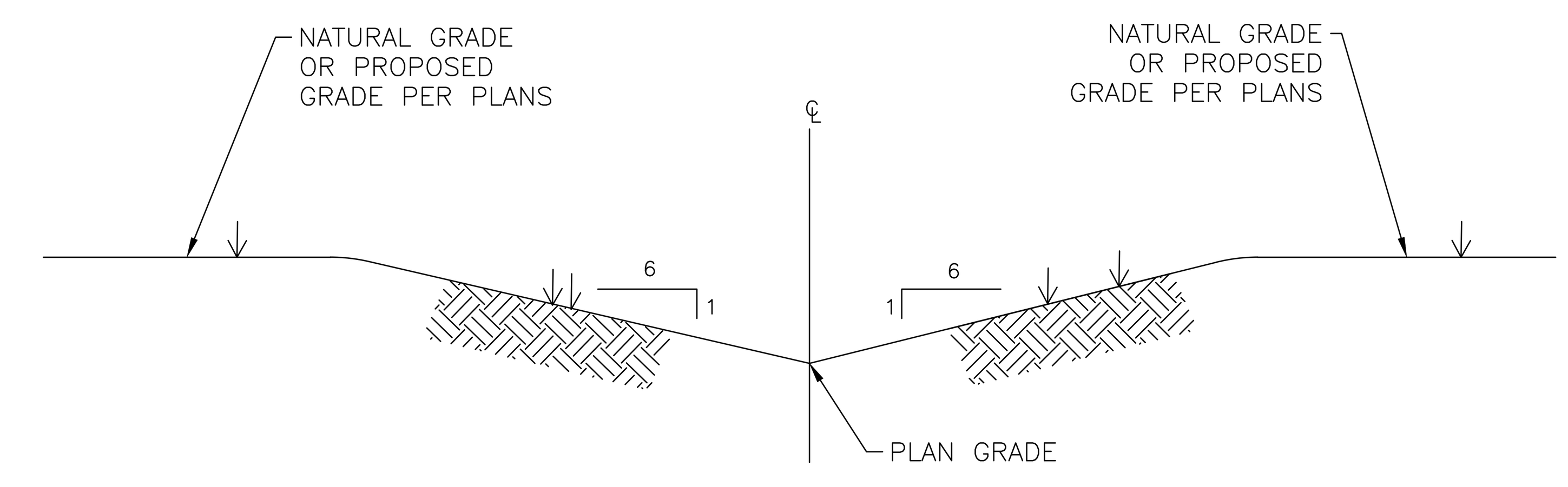
PROVIDE A SAWED JOINT SPACED EQUAL TO WIDTH (W) AND EXPANSION JOINTS TO BE PLACED @ 4 X WIDTH

1 CONCRETE SIDEWALK DETAIL NTS

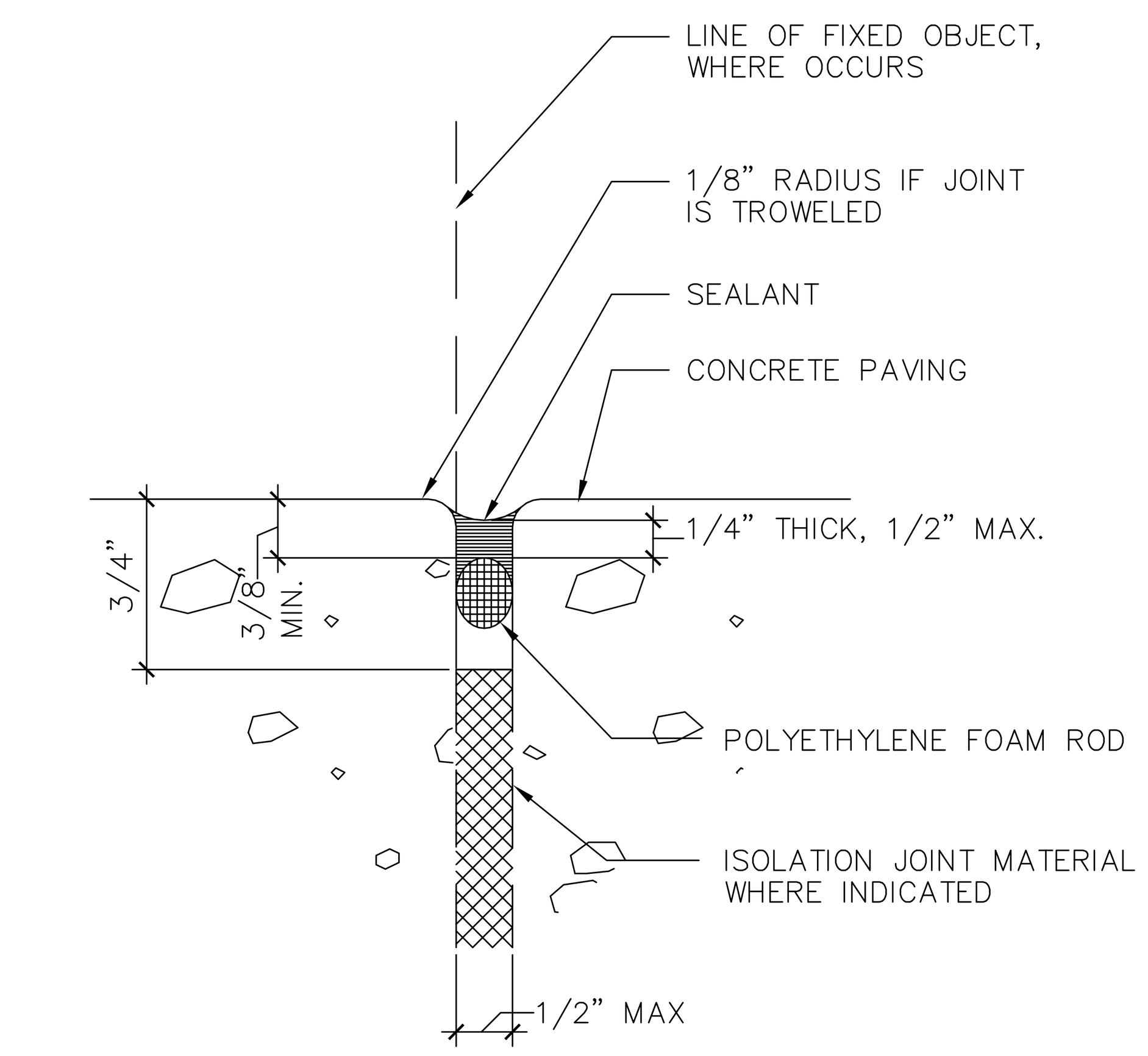


NOTES:
T = PAVEMENT THICKNESS

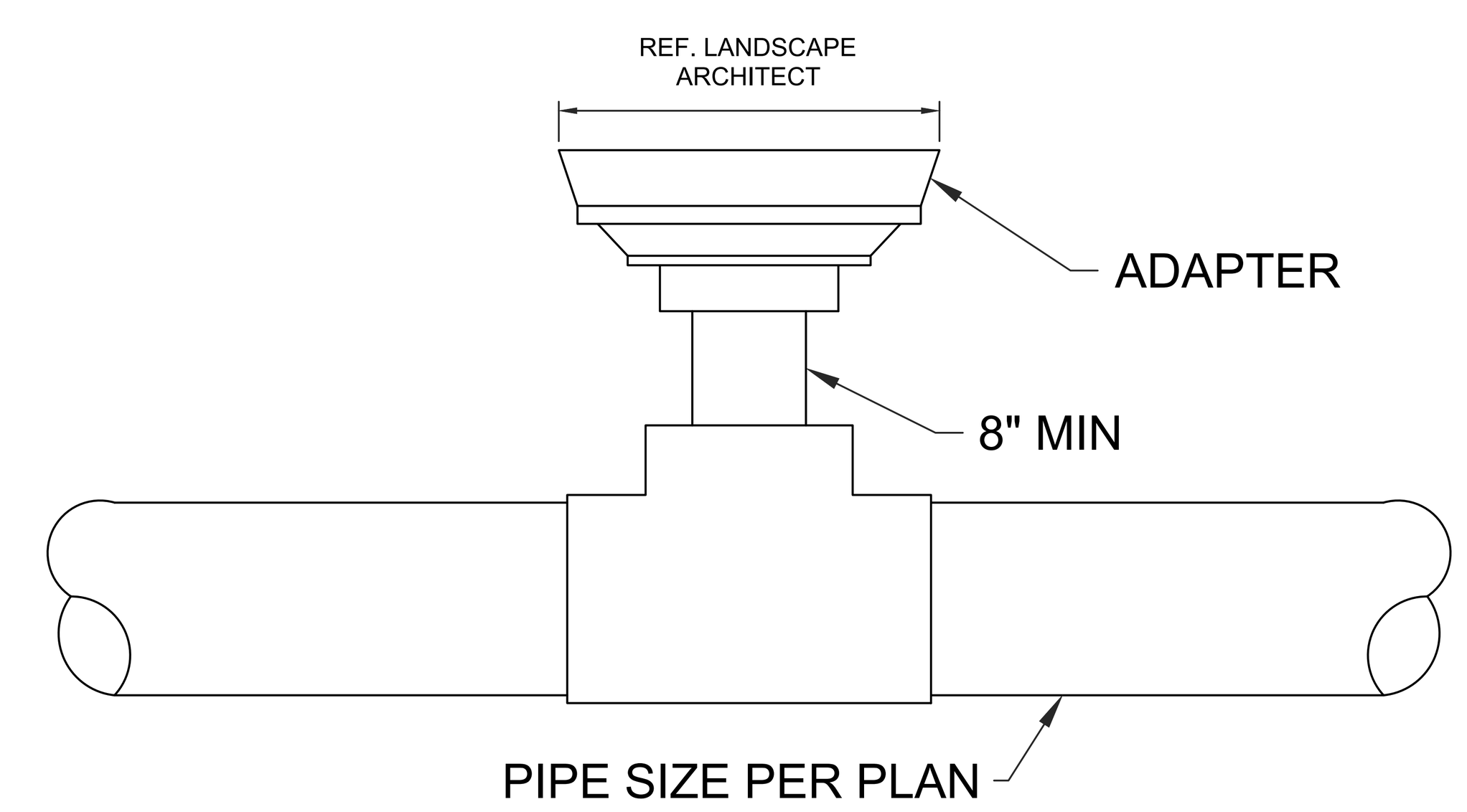
2 PROPOSED CONCRETE TO EXISTING CONCRETE TIE IN NTS



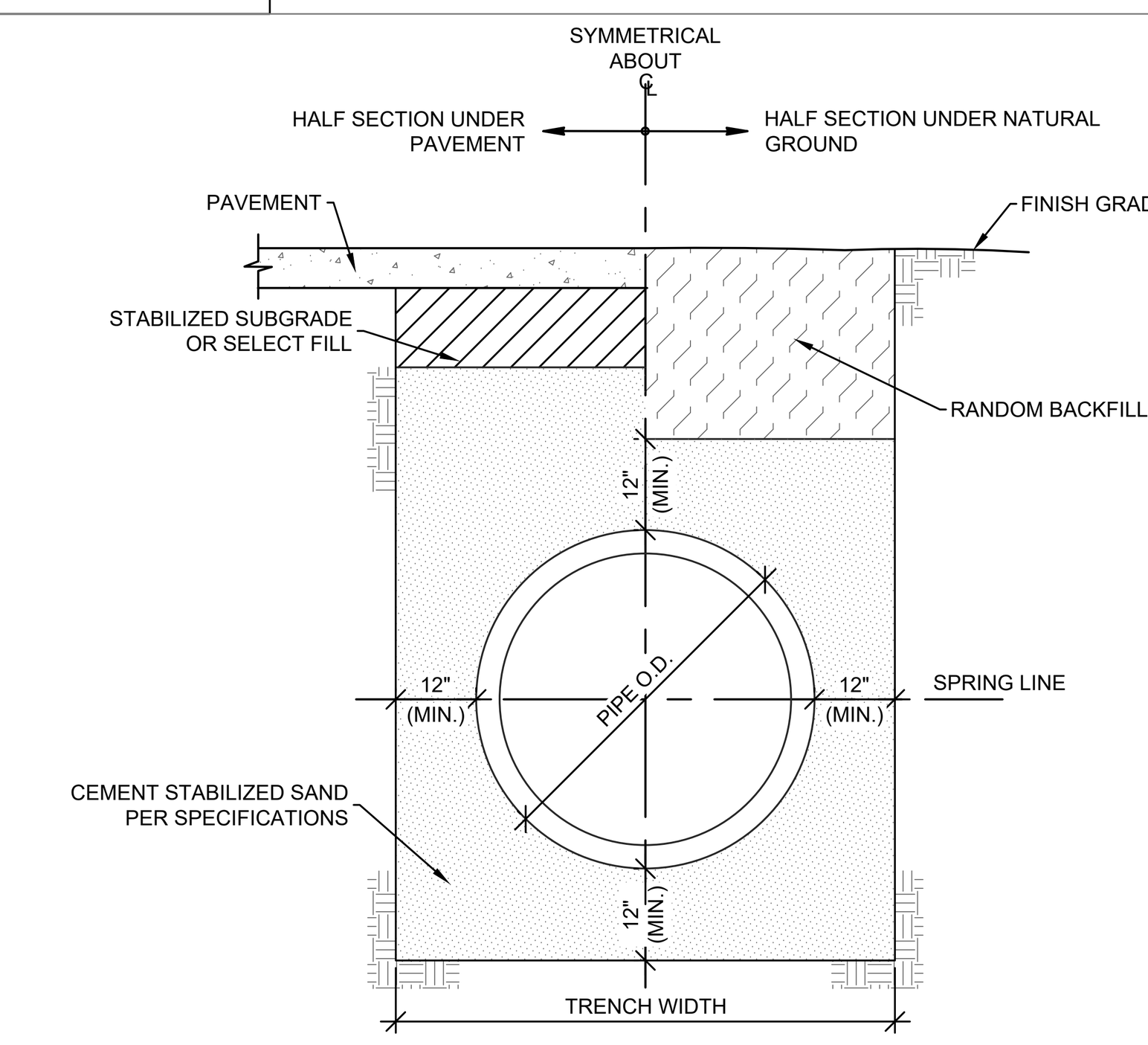
4 SWALE NTS



3 ISOLATION JOINT NTS



5 INLINE DRAIN CONNECTION NTS



NOTES:

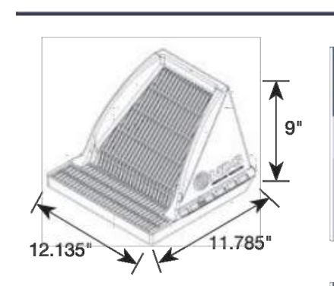
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.

STORM SEWER BEDDING & BACKFILL N.T.S.

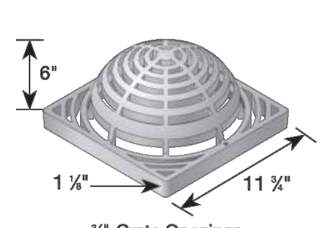
DRAINAGE

CATCH BASINS

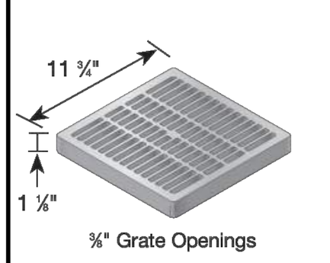
12" Catch Basin Series (continued)



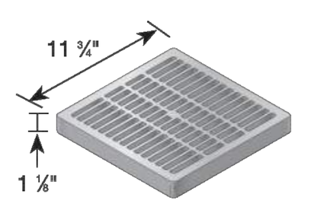
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1200DSG	12" x 12" Downspout Defender Grate	Black	8	n/a	10ND	12" x 12" Downspout Grate. Structural Foam Polyolefin with UV inhibitor. 247 GPM.
	Receives downspouts from 2" to 6" round or square. Fits all NDS 12" square Catch Basins, Risers and Low-Profile adapters.					



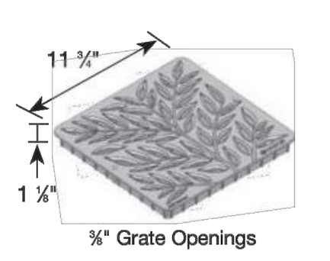
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1280	12" x 12" Atrium Grate	Green	8	1.74	10ND	12" Structural Foam Polyolefin Dome Atrium Grate with UV inhibitor. Open surface area 50.60 square inches. 154.79 GPM.
1290	12" x 12" Atrium Grate	Black	8	1.74	10ND	
	Use with 12" x 12" Catch Basin Series.					



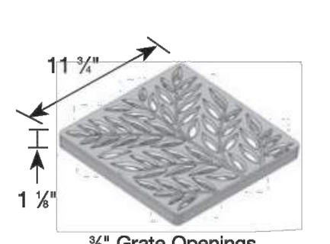
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1210	12" x 12" Square Grate	Gray	8	2.33	10ND	12" Square Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 50.76 square inches. 155.28 GPM.
1211	12" x 12" Square Grate	Black	8	2.33	10ND	
1212	12" x 12" Square Grate	Green	8	2.33	10ND	
1212S	12" x 12" Square Grate	Sand	8	2.33	10ND	
	Use with 12" x 12" Catch Basin Series. (see page 79). ADA Compliant.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
1230B	12" Square Brass Grate	Brass	1	9.24	15BR	Open surface area 42.87 square inches. 131.14 GPM. Includes SS Screws.
	(see page 79). ADA Compliant.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1218S	12" x 12" Square Botanical Grate	Sand	8	3.27	10ND	12" Square Structural Foam Polyolefin Botanical Grate with UV inhibitor. Open surface area 24.44 square inches. 74.77 GPM. Class B load rated.
1218GR	12" x 12" Square Botanical Grate	Green	8	3.27	10ND	
1218GY	12" x 12" Square Botanical Grate	Gray	8	3.27	10ND	
1218	12" x 12" Square Botanical Grate	Black	8	3.27	10ND	
839	Stainless Steel Screws, FH #6 x 1-3/4"	Metal	40/Bag	n/a	10ND	
	(see page 79). ADA Compliant. Not compatible with 1200FF filter.					

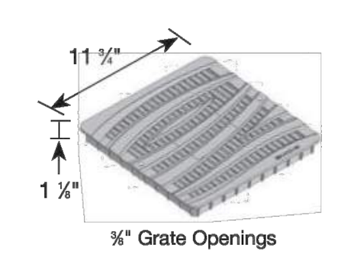


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1218CI	12" x 12" Square Botanical Cast Iron Grate	Black*	1	12.67	10ND	12" Square Cast Iron Botanical Grate. Open surface area 24.44 square inches. 74.77 GPM. Class B load rated.
# 629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40/Bag	n/a	10ND	
	*Painted for shipping & display only; grate will form iron-oxide patina (see page 79). ADA Compliant.					

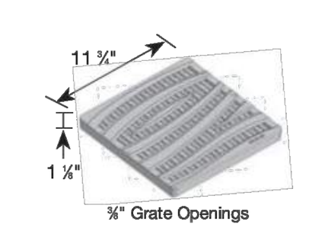
CATCH BASINS

12" Catch Basin Series (continued)

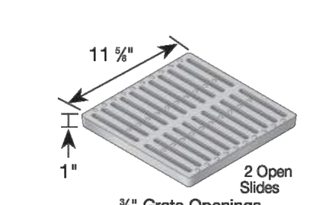
DRAINAGE



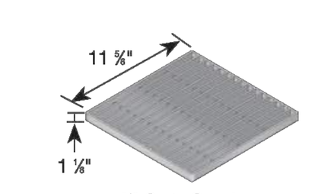
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1224S	12" x 12" Square Wave Grate	Sand	8	2.68	10ND	12" Square Structural Foam Polyolefin Wave Grate with UV inhibitor. Open surface area 25.67 square inches. 78.53 GPM. Class B load rated.
1224GR	12" x 12" Square Wave Grate	Green	8	2.68	10ND	
1224GY	12" x 12" Square Wave Grate	Gray	8	2.68	10ND	
1224	12" x 12" Square Wave Grate	Black	8	2.68	10ND	
839	Stainless Steel Screws, FH #6 x 1-3/4"	Metal	40	n/a	10ND	
	(see page 79). ADA Compliant. Compatible with 1200FF filter.					



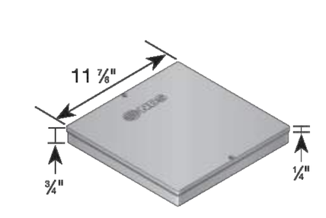
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1224CI	12" x 12" Square Wave Cast Iron Grate	Black*	1	13.90	10ND	12" Square Cast Iron Wave Grate. Open surface area 25.60 square inches. 78.31 GPM. Class B load rated.
629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	
	*Painted for shipping & display only; grate will form iron-oxide patina (see page 79). ADA Compliant/Heel-proof.					



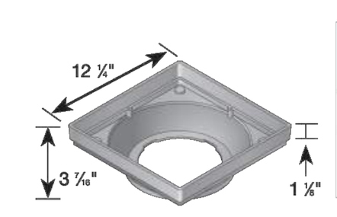
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1213	12" x 12" Square Ductile Iron Grate	Black*	1	15.30	10ND	12" Square Heavy-Duty Ductile Iron Grate. Open surface area 37.20 square inches. 113.80 GPM.
	Use with 12" x 12" Catch Basin Series. *Painted for shipping & display only; grate will form iron-oxide patina (see page 79). ADA Compliant.					



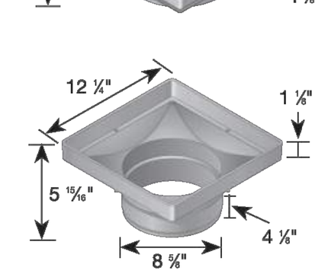
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1215	12" x 12" Square Galvanized Steel Grate	Galvanized Steel	1	5.85	10ND	12" Square Heavy-Duty Galvanized Steel Bar Grate. Open surface area 113.78 square inches. 348.07 GPM.
	Use with 12" x 12" Catch Basin Series. (see page 79)					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1220	12" x 12" Sump/Valve Box Cover	Black	8	2.23	10ND	NDS #1220, 12" Square Structural Foam Polyolefin Solid Cover.
	Use with NDS 12" x 12" Catch Basin Series, #1225 Sump Box and #1219 Backwater Valve Box.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1230	12" x 12" Low-Profile Adapter	Black	8	1.25	10ND	12" x 12" Low-Profile Adapter. Styrene.
	Adapter #1242, #1243, #1245, #1266 or #1889 Universal Outlets to connect to 3", 4", 6" or 8" Sewer and Drain or Corrugated Pipes (see page 35).					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1222	12" x 12" Square, Low-Profile Spigot Adapter – Fits 8" single-wall corrugated pipe, sewer and drain pipe and Schedule 40 pipe and dual-wall N-12 corrugated pipe	Black	12	1.92	10ND	12" x 12" Low-Profile Adapter. Styrene.
	Use with NDS 12" x 12" Grates					

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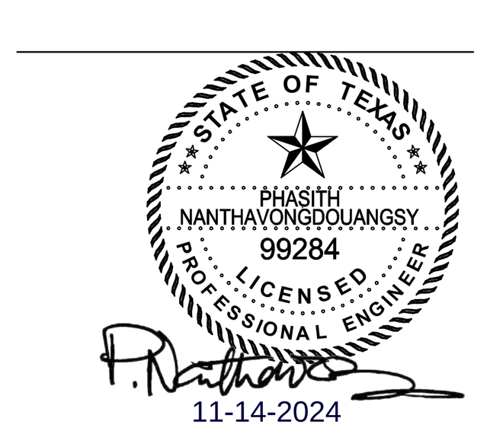
CLEAR CREEK I.S.D.
LEAGUE CITY, TEXAS

CCISD PROJECT NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

Director	Drawn By
DIR	
Designer	Quality Control
DSN	QC
Proj. Arch.	
PA	

PROJECT NO.

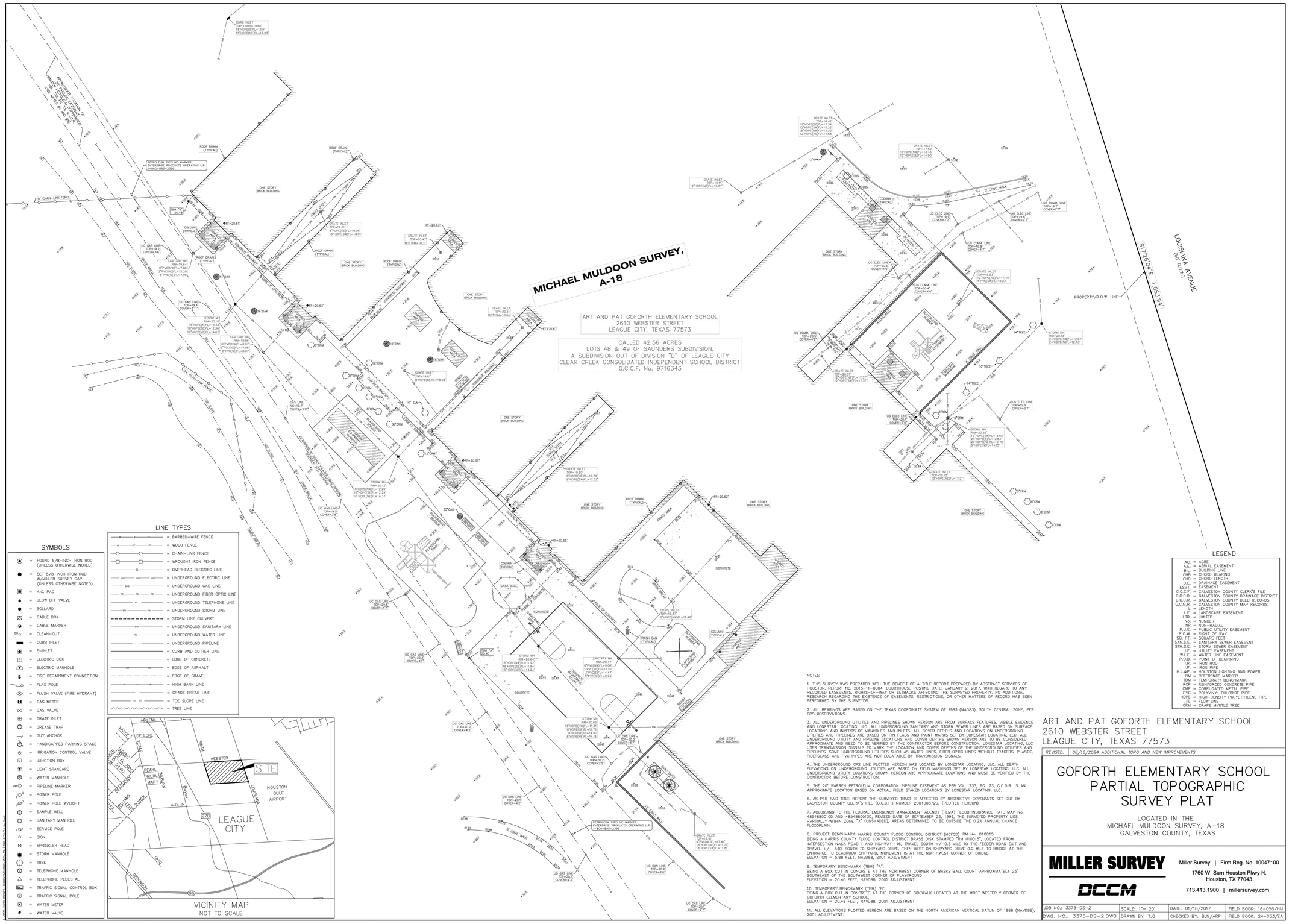
24-046.00

SHEET TITLE

GOFE - PAVING AND GRADING DETAILS

SHEET NO.

C26.00



NOTES:

1. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A TITLE REPORT PREPARED BY ABSTRACT SERVICES OF HOUSTON, REPORT No. 2015-11-0004, COURTHOUSE POSTING DATE: JANUARY 2, 2017, WITH REGARD TO ANY RECORDED EASEMENTS, RIGHTS-OF-WAY OR SETBACKS AFFECTING THE SURVEYED PROPERTY. NO ADDITIONAL RESEARCH REGARDING THE EXISTENCE OF EASEMENTS, RESTRICTIONS, OR OTHER MATTERS OF RECORD HAS BEEN PERFORMED BY THE SURVEYOR.

2. ALL BEARINGS ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983 (NAD83), SOUTH CENTRAL ZONE, PER GPS OBSERVATIONS.

3. ALL UNDERGROUND UTILITIES AND PIPELINES SHOWN HEREON ARE FROM SURFACE FEATURES, VISIBLE EVIDENCE AND LONESTAR LOCATING, LLC. ALL UNDERGROUND SANITARY AND STORM SEWER LINES ARE BASED ON SURFACE LOCATIONS AND INVERTS OF MANHOLES AND INLETS. ALL COVER DEPTHS AND LOCATIONS ON UNDERGROUND UTILITIES AND PIPELINES ARE BASED ON PIN FLAGS AND PAINT MARKS SET BY LONESTAR LOCATING, LLC. ALL UNDERGROUND UTILITY AND PIPELINE LOCATIONS AND COVER DEPTHS SHOWN HEREON ARE TO BE CONSIDERED APPROXIMATE AND NEED TO BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. LONESTAR LOCATING, LLC USES TRANSMISSION SIGNALS TO MARK THE LOCATION AND COVER DEPTHS OF THE UNDERGROUND UTILITIES AND PIPELINES. SOME UNDERGROUND UTILITIES SUCH AS WATER LINES, FIBER OPTIC LINES WITHOUT TRACERS, PLASTIC, FIBERGLASS AND PVC PIPES ARE NOT LOCATABLE BY TRANSMISSION SIGNALS.

4. THE UNDERGROUND GAS LINE PLOTTED HEREON WAS LOCATED BY LONESTAR LOCATING, LLC. ALL DEPTH ELEVATIONS ON UNDERGROUND UTILITIES ARE BASED ON FIELD MARKINGS SET BY LONESTAR LOCATING, LLC. ALL UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE LOCATIONS AND MUST BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION.

5. THE 20' WARREN PETROLEUM CORPORATION PIPELINE EASEMENT AS PER VOL. 733, PG. 73, G.C.D.R. IS AN APPROXIMATE LOCATION BASED ON ACTUAL FIELD STAKED LOCATIONS BY LONESTAR LOCATING, LLC.

6. AS PER SAID TITLE REPORT THE SURVEYED TRACT IS AFFECTED BY RESTRICTIVE COVENANTS SET OUT BY GALVESTON COUNTY CLERK'S FILE (G.C.C.F.) NUMBER 2001008720. (PLOTTED HEREON)

7. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP No. 48543B0010D AND 48548B0013D, REVISED DATE OF SEPTEMBER 22, 1999, THE SURVEYED PROPERTY LIES PARTIALLY WITHIN ZONE "X" (UNSHADED), AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

8. PROJECT BENCHMARK: HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) RM No. 010015
BEING A HARRIS COUNTY FLOOD CONTROL DISTRICT BRASS DISK STAMPED "RM 010015", LOCATED FROM INTERSECTION NASA ROAD 1 AND HIGHWAY 146, TRAVEL SOUTH +/-0.3 MILE TO THE FEEDER ROAD EXIT AND TRAVEL +/- 540' SOUTH TO SHIPYARD DRIVE, THEN WEST ON SHIPYARD DRIVE 0.2 MILE TO BRIDGE AT THE ENTRANCE TO SEABROOK SHIPYARD, MONUMENT IS AT THE NORTHWEST CORNER OF BRIDGE.
ELEVATION = 5.88 FEET, NAVD88, 2001 ADJUSTMENT

9. TEMPORARY BENCHMARK (TBM) "A":
BEING A BOX CUT IN CONCRETE AT THE NORTHWEST CORNER OF BASKETBALL COURT APPROXIMATELY 25' SOUTHEAST OF THE SOUTHWEST CORNER OF PLAYGROUND
ELEVATION = 20.40 FEET, NAVD88, 2001 ADJUSTMENT

10. TEMPORARY BENCHMARK (TBM) "B":
BEING A BOX CUT IN CONCRETE AT THE CORNER OF SIDEWALK LOCATED AT THE MOST WESTERLY CORNER OF GOFORTH ELEMENTARY SCHOOL.
ELEVATION = 20.48 FEET, NAVD88, 2001 ADJUSTMENT

11. ALL ELEVATIONS PLOTTED HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), 2001 ADJUSTMENT.

ART AND PAT GOFORTH ELEMENTARY SCHOOL
2610 WEBSTER STREET
LEAGUE CITY, TEXAS 77573

REVISED: 08/16/2024 ADDITIONAL TOPO AND NEW IMPROVEMENTS

GOFORTH ELEMENTARY SCHOOL PARTIAL TOPOGRAPHIC SURVEY PLAT

LOCATED IN THE
MICHAEL MULDOON SURVEY, A-18
GALVESTON COUNTY, TEXAS

MILLER SURVEY

DCCM

Miller Survey | Firm Reg. No. 10047100
1760 W. Sam Houston Pkwy N.
Houston, TX 77043
713.413.1900 | millersurvey.com

JOB NO.: 3375-DS-2	SCALE: 1"= 20'	DATE: 01/18/2017	FIELD BOOK: 16-056/HM
DWG. NO.: 3375-DS-2.DWG	DRAWN BY: TJG	CHECKED BY: BJN/ARP	FIELD BOOK: 24-053/EA

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CLEAR CREEK I.S.D.
LEAGUE CITY, TEXAS

CCISD PROJECT
NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROB

FOR INFORMATION ONLY

ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

Director	Drawn By
DIR	
Designer	Quality Control
DSN	QC
Proj. Arch.	
PA	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - TOPOGRAPHIC SURVEY

SHEET NO.
V21.00

N
PLAN NORTH

TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT A
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
2. Existing materials containing asbestos to be removed under separate contract prior to construction by Owner's asbestos abatement contractor.
3. Contact the Owner prior to the start of demolition to determine items to be salvaged and returned to Owner.
4. Protect items to remain from damage during demolition.
5. Repair or replace at no cost to the Owner any damages to the existing building and site as a result of construction activities.
6. Refer to electrical and mechanical demolition plan for additional information.
7. Patch/repair flooring to match existing at all removed or demolished doors, windows, walls, millwork, lockers and similar items.
8. GC to remove and protect existing furniture and metal shelving during construction. GC to install in exact location of scope of work to be completed.
9. Floor finish to not impede existing drain cleanout.
10. Remove and reinstall metal shelving at same location prior to floor removal/installation.
11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.
12. Remove and reinstall all room signage if vinyl wallcovering is being installed.
13. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE, RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD3	PREP EXISTING HARDWOOD FLOORING FOR RESTAIN AND RESEAL.
MD5	REMOVE EXISTING MARKERBOARD. PATCH AND REPAIR DRYWALL AS NEEDED. PROVIDE BLOCKING AS NEEDED FOR NEW MARKERBOARDS TO BE INSTALLED.
MD7	REMOVE EXISTING HANDRAIL. PREPARE WALL AND PLUG EXISTING HOLES AS NEEDED TO RECEIVE NEW HANDRAIL. REPAINT PATCHES.
MD9	REMOVE EXISTING KILN FOR PREPARATION OF NEW FLOORING. GC TO INSTALL IN EXACT LOCATION
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION, PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

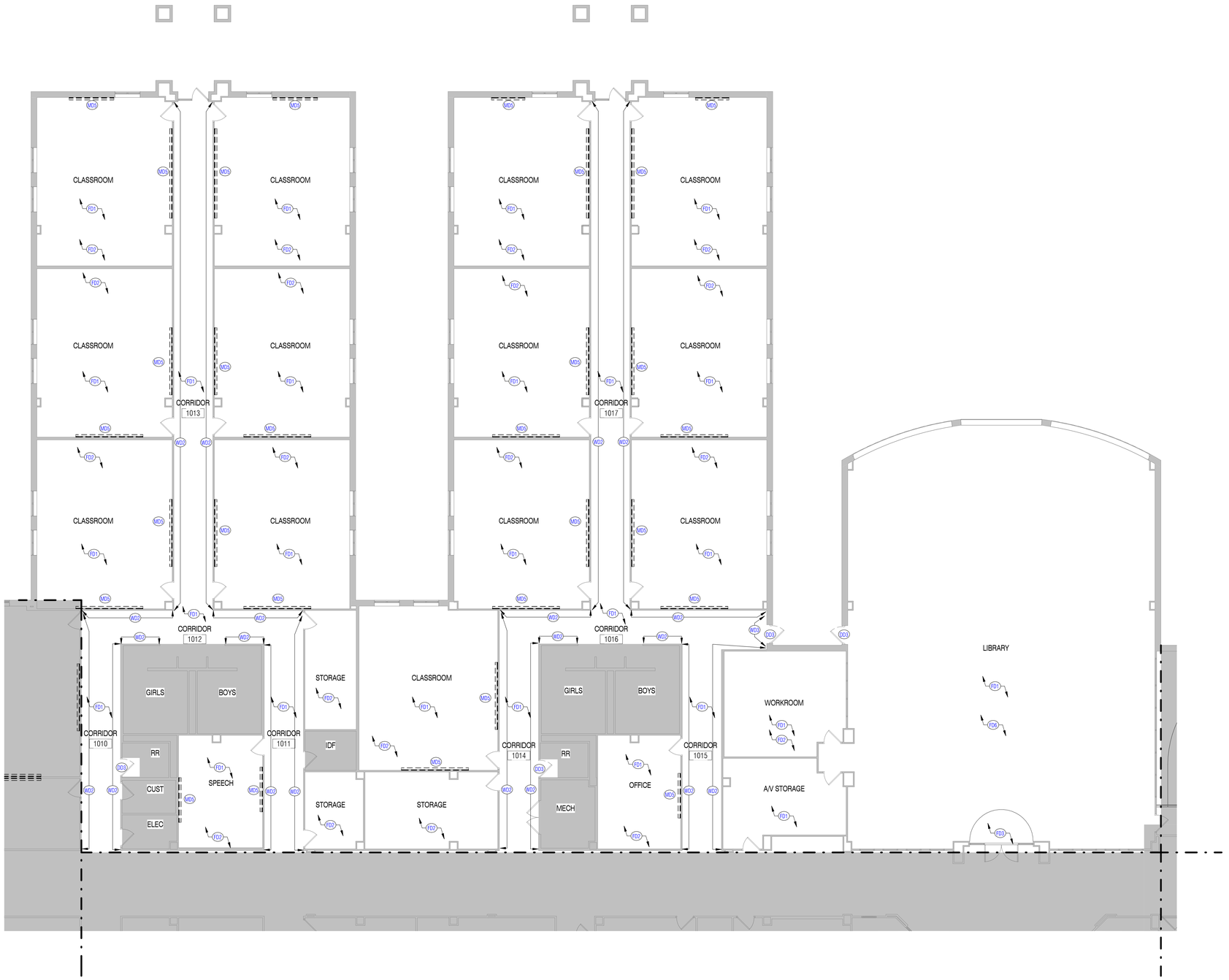
Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO PLAN - UNIT A

SHEET NO.
A22.01A



N
PLAN NORTH

TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT B
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
2. Existing materials containing asbestos to be removed under separate contract prior to construction by Owner's asbestos abatement contractor.
3. Contact the Owner prior to the start of demolition to determine items to be salvaged and returned to Owner.
4. Protect items to remain from damage during demolition.
5. Repair or replace at no cost to the Owner any damages to the existing building and site as a result of construction activities.
6. Refer to electrical and mechanical demolition plan for additional information.
7. Patch/repair flooring to match existing at all removed or demolished doors, windows, walls, millwork, lockers and similar items.
8. GC to remove and protect existing furniture and metal shelving during construction. GC to install in exact location of scope of work to be completed.
9. Floor finish to not impede existing drain cleanout.
10. Remove and reinstall metal shelving at same location prior to floor removal/installation.
11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.
12. Remove and reinstall all room signage if vinyl wallcovering is being installed.
13. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE. RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD3	PREP EXISTING HARDWOOD FLOORING FOR RESTAIN AND RESEAL
FD6	REMOVE AND REPLACE INTERIOR SHELVING FOR INSTALLATION OF SCHEDULED FLOOR FINISHES. SCHEDULED FLOORING TO NOT COVER EXISTING ELECTRICAL FLOOR OUTLETS.
MD5	REMOVE EXISTING MARKERBOARD. PATCH AND REPAIR DRYWALL AS NEEDED. PROVIDE BLOCKING AS NEEDED FOR NEW MARKERBOARDS TO BE INSTALLED.
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION, PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.
WD3	PREP GYP BD WALL AND/OR CEILING FURR DOWN TO RECEIVE NEW PAINT FINISH. PAINT AREAS AT HOLE PATCHES.

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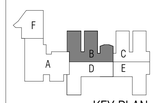
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO PLAN - UNIT B

SHEET NO.
A22.01B

DEMOLITION NOTES

1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
2. Existing materials containing asbestos to be removed under separate contract prior to construction by Owner's asbestos abatement contractor.
3. Contact the Owner prior to the start of demolition to determine items to be salvaged and returned to Owner.
4. Protect items to remain from damage during demolition.
5. Repair or replace at no cost to the Owner any damages to the existing building and site as a result of construction activities.
6. Refer to electrical and mechanical demolition plan for additional information.
7. Patch/repair flooring to match existing at all removed or demolished doors, windows, walls, millwork, lockers and similar items.
8. GC to remove and protect existing furniture and metal shelving during construction. GC to install in exact location of scope of work to be completed.
9. Floor finish to not impede existing drain cleanout.
10. Remove and reinstall metal shelving at same location prior to floor removal/installation.
11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.
12. Remove and reinstall all room signage if vinyl wallcovering is being installed.
13. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE, RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
MD5	REMOVE EXISTING MARKERBOARD. PATCH AND REPAIR DRYWALL AS NEEDED. PROVIDE BLOCKING AS NEEDED FOR NEW MARKERBOARDS TO BE INSTALLED.
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION, PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.
WD3	PREP GYP BD WALL AND/OR CEILING FURR DOWN TO RECEIVE NEW PAINT FINISH. PAINT AREAS AT HOLE PATCHES.

1 FLOOR PLAN - DEMO - UNIT C
SCALE: 1/8" = 1'-0"

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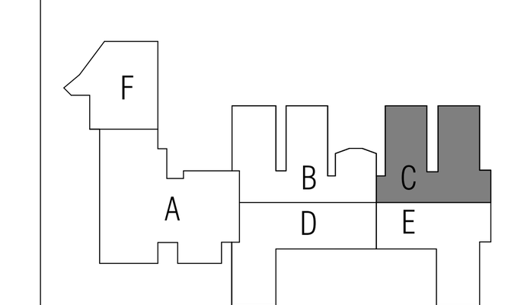
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

REGISTERED ARCHITECT
MELISSA E. FLEMING
20319
STATE OF TEXAS
11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

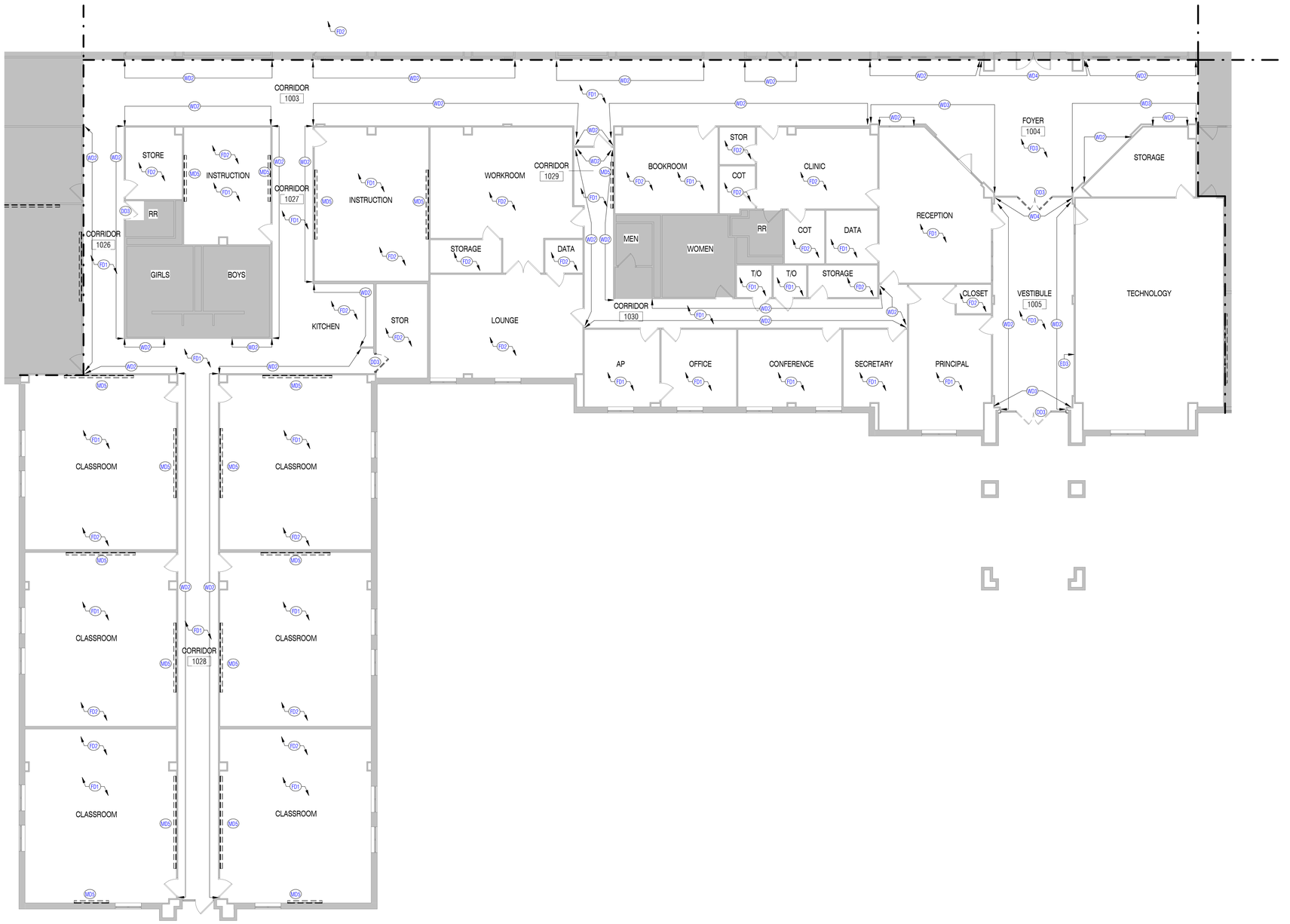
Director: Approver
Drawn By: Author
Designer: Designer
Quality Control
Proj. Arch.: Checker

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO PLAN - UNIT C

CCISD Priority Repairs - FAPE GOFE ROBE

SHEET NO.
A22.01C



N

PLAN NORTH

TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT D

SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
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12. Remove and reinstall all room signage if vinyl wallcovering is being installed.
13. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE. RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
ED3	(5) LIGHTS TO BE REMOVED AND REINSTALLED. REF. MEP.
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD3	PREP EXISTING HARDWOOD FLOORING FOR RESTAIN AND RESEAL
MD5	REMOVE EXISTING MARKERBOARD. PATCH AND REPAIR DRYWALL AS NEEDED. PROVIDE BLOCKING AS NEEDED FOR NEW MARKERBOARDS TO BE INSTALLED.
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION. PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.
WD3	PREP GYP BD WALL AND/OR CEILING FURR DOWN TO RECEIVE NEW PAINT FINISH. PAINT AREAS AT HOLE PATCHES.
WD4	PRESERVE AND PROTECT EXISTING WALL AND ARTWORK

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - DEMO PLAN - UNIT D

SHEET NO.

A22.01D

N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT E
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
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DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE. RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
MD5	REMOVE EXISTING MARKERBOARD. PATCH AND REPAIR DRYWALL AS NEEDED. PROVIDE BLOCKING AS NEEDED FOR NEW MARKERBOARDS TO BE INSTALLED.
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION, PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.

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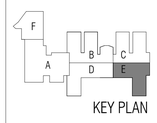
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO PLAN - UNIT E

SHEET NO.
A22.01E

N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT F
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

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13. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.

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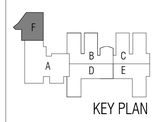
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

REGISTERED ARCHITECT
MELISSA E. FLEMING
78613
STATE OF TEXAS
11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO PLAN - UNIT F

SHEET NO.
A22.01F

CCISD Priority Repairs - FAPE GOFE ROBE

ALTERNATE KEYNOTES

A3	TILE WAINSCOT THROUGHOUT MAIN CORRIDOR. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A8	REPLACE EXISTING PARTITION WITH MANUAL FOLDING PARTITION.

1 FLOOR PLAN - ALTERNATE - UNIT A
SCALE: 1/8" = 1'-0"

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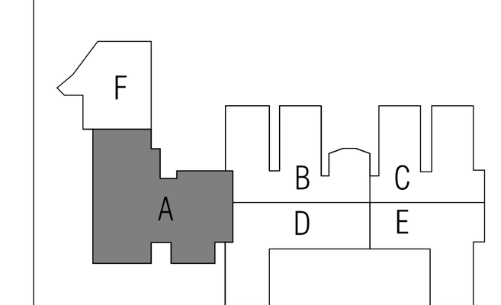
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

CCISD Priority Repairs - FAPE GOFE ROBE

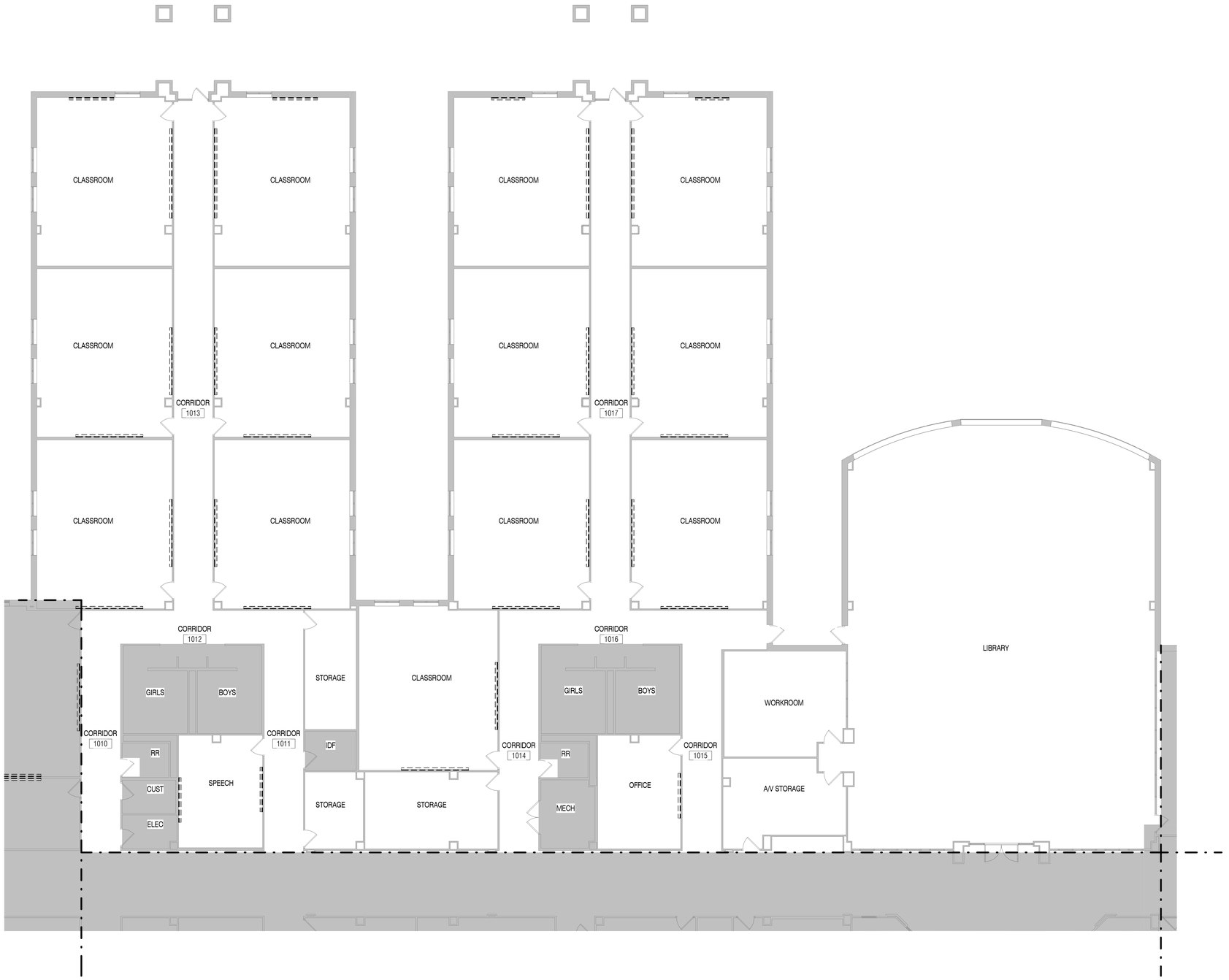
Director Approver	Drawn By Author
Designer Designer	Quality Control
Proj. Arch. Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - ALTERNATE PLAN - UNIT A

SHEET NO.
A22.03A

ALTERNATE KEYNOTES



N
PLAN NORTH

N
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT B
SCALE: 1/8" = 1'-0"

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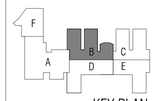


KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

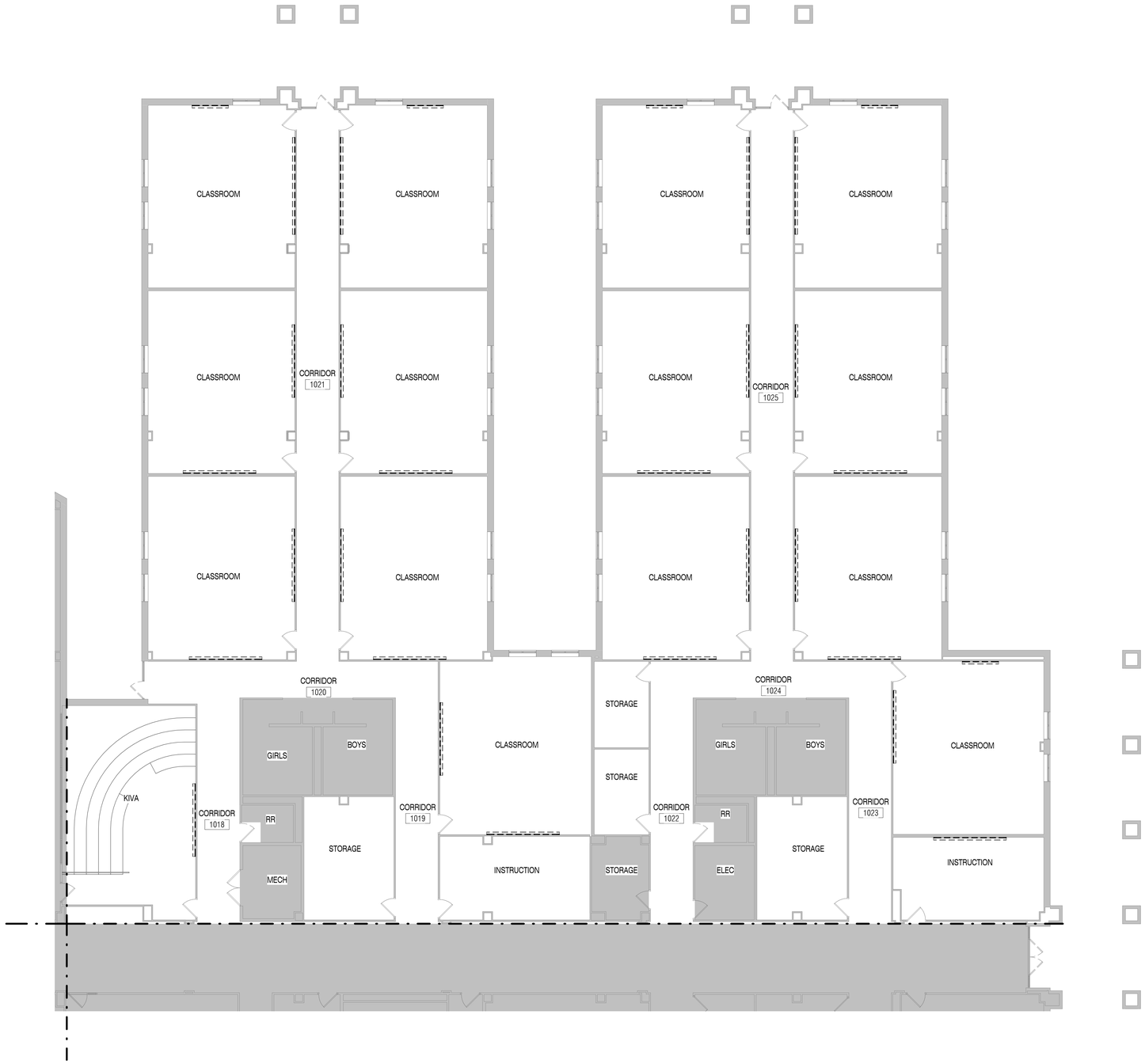
PROJECT NO.
24-046.00

SHEET TITLE
GOFE - ALTERNATE PLAN - UNIT B

SHEET NO.
A22.03B

CCISD Priority Repairs - FAPE GOFE ROBE

ALTERNATE KEYNOTES



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT C
SCALE: 1/8" = 1'-0"

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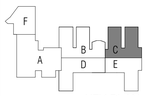
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN



11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - ALTERNATE PLAN - UNIT C

SHEET NO.

A22.03C

CCISD Priority Repairs - FAPE GOFE ROBE

ALTERNATE KEYNOTES

A3	TILE WAINSCOT THROUGHOUT MAIN CORRIDOR. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A4	TILE WAINSCOT AT FRONT AND LIBRARY ENTRY. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. REMOVE WOOD CHAIR RAILING EDGING. REMOVE AND REINSTALL SHELVING IF NEEDED. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.

N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT D
SCALE: 1/8" = 1'-0"

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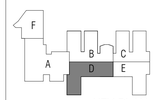
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - ALTERNATE PLAN - UNIT D

SHEET NO.
A22.03D

ALTERNATE KEYNOTES

A3	TILE WAINSCOT THROUGHOUT MAIN CORRIDOR. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.

N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT E
SCALE: 1/8" = 1'-0"

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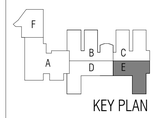
2025.402



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - ALTERNATE PLAN - UNIT E

SHEET NO.
A22.03E

CCISD Priority Repairs - FAPE GOFE ROBE

ALTERNATE KEYNOTES

N
PLAN NORTH

TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT F
SCALE: 1/8" = 1'-0"

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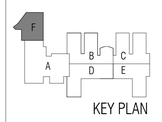


KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

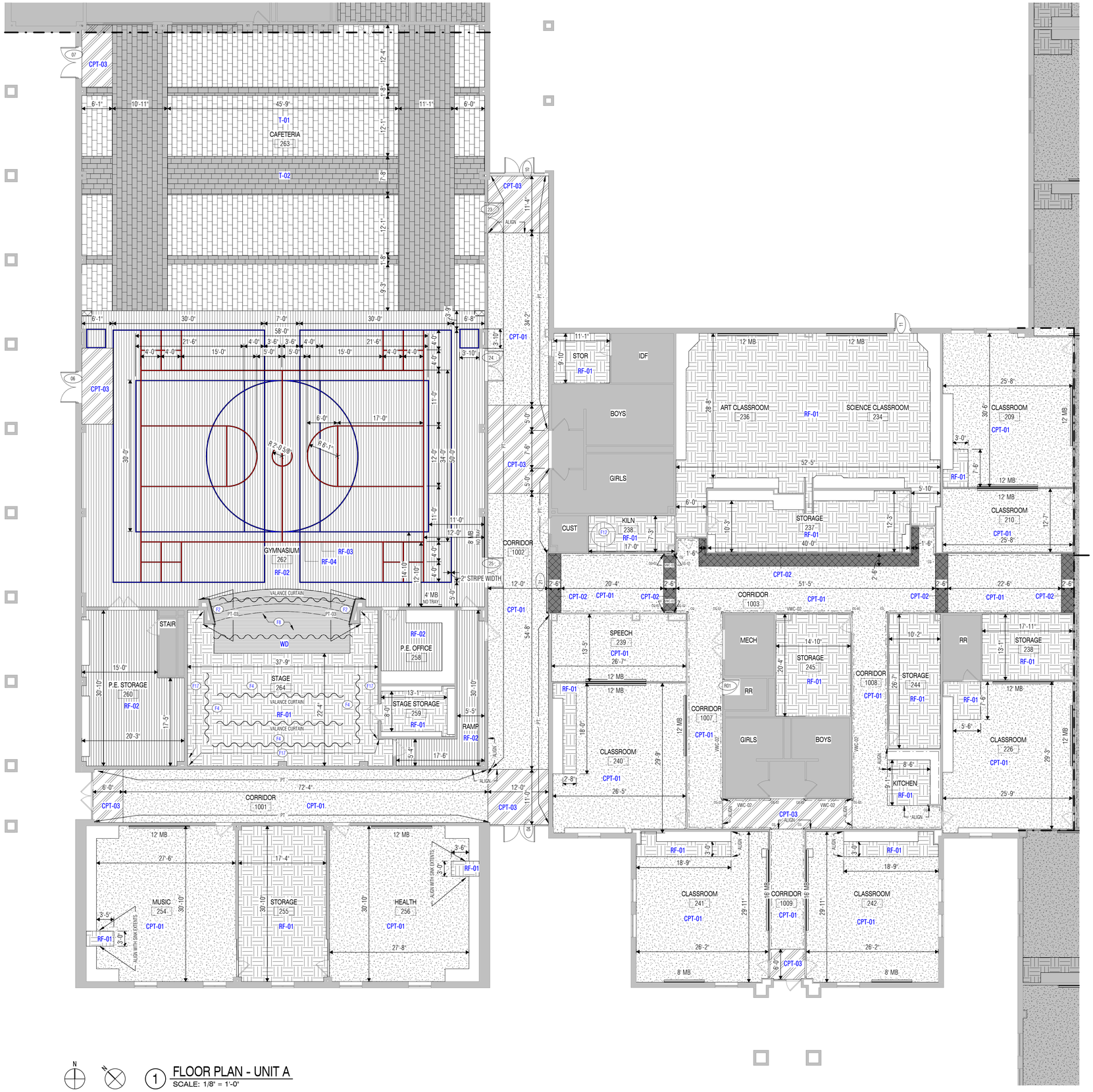
Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - ALTERNATE PLAN - UNIT F

SHEET NO.
A22.03F

CCISD Priority Repairs - FAPE GOFE ROBE



N

PLAN NORTH TRUE NORTH

1 FLOOR PLAN - UNIT A

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. Building to receive repaint throughout, including handrails and exposed structure.
3. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

CO-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02 RF-03 RF-04	RESILIENT FLOOR - GYMNASIUM RESILIENT FLOOR - RED STRIPING RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
VWC-01	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

FLOOR PLAN KEYED NOTES

F2	STAINLESS STEEL HANDRAIL
F4	STAGE CURTAINS
F8	WOOD TO BE REFINISHED, STAINED, AND SEALED
F12	EXISTING KILN
F17	BC-02 AT STAGE EXTENTS.

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CCISD PROJECT NO:
2025.402

KEY PLAN

REGISTERED ARCHITECT
WILLIAM K. FLEMING
STATE OF TEXAS

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - FLOOR PLAN - UNIT A

SHEET NO.

A22.11A

CCISD Priority Repairs - FAPE GOFE ROBE

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. Building to receive repaint throughout, including handrails and exposed structure.
3. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

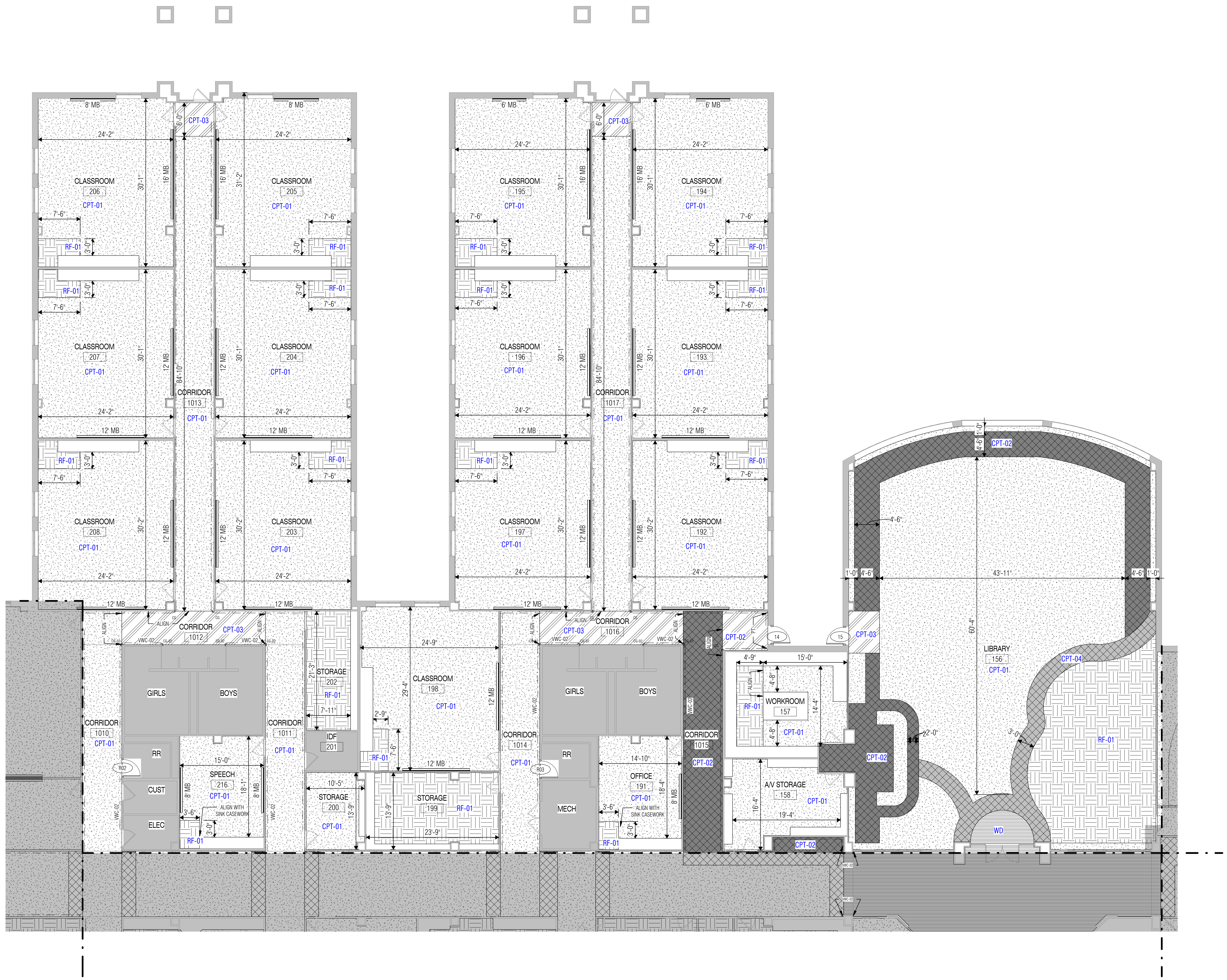
WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

	NOT IN SCOPE

FLOOR PLAN KEYED NOTES



1 FLOOR PLAN - UNIT B
SCALE: 1/8" = 1'-0"

PLAN NORTH
TRUE NORTH

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CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No. Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
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Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - FLOOR PLAN - UNIT B

SHEET NO.
A22.11B

N
PLAN NORTH

TRUE NORTH

1 FLOOR PLAN - UNIT C
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. Building to receive repaint throughout, including handrails and exposed structure.
3. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

FLOOR PLAN KEYED NOTES

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CCISD PROJECT NO:
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KEY PLAN

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11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
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PROJECT NO.

24-046.00

SHEET TITLE

GOFE - FLOOR PLAN - UNIT C

SHEET NO.

A22.11C

CCISD Priority Repairs - FAPE GOFE ROBE

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. Building to receive repaint throughout, including handrails and exposed structure.
3. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

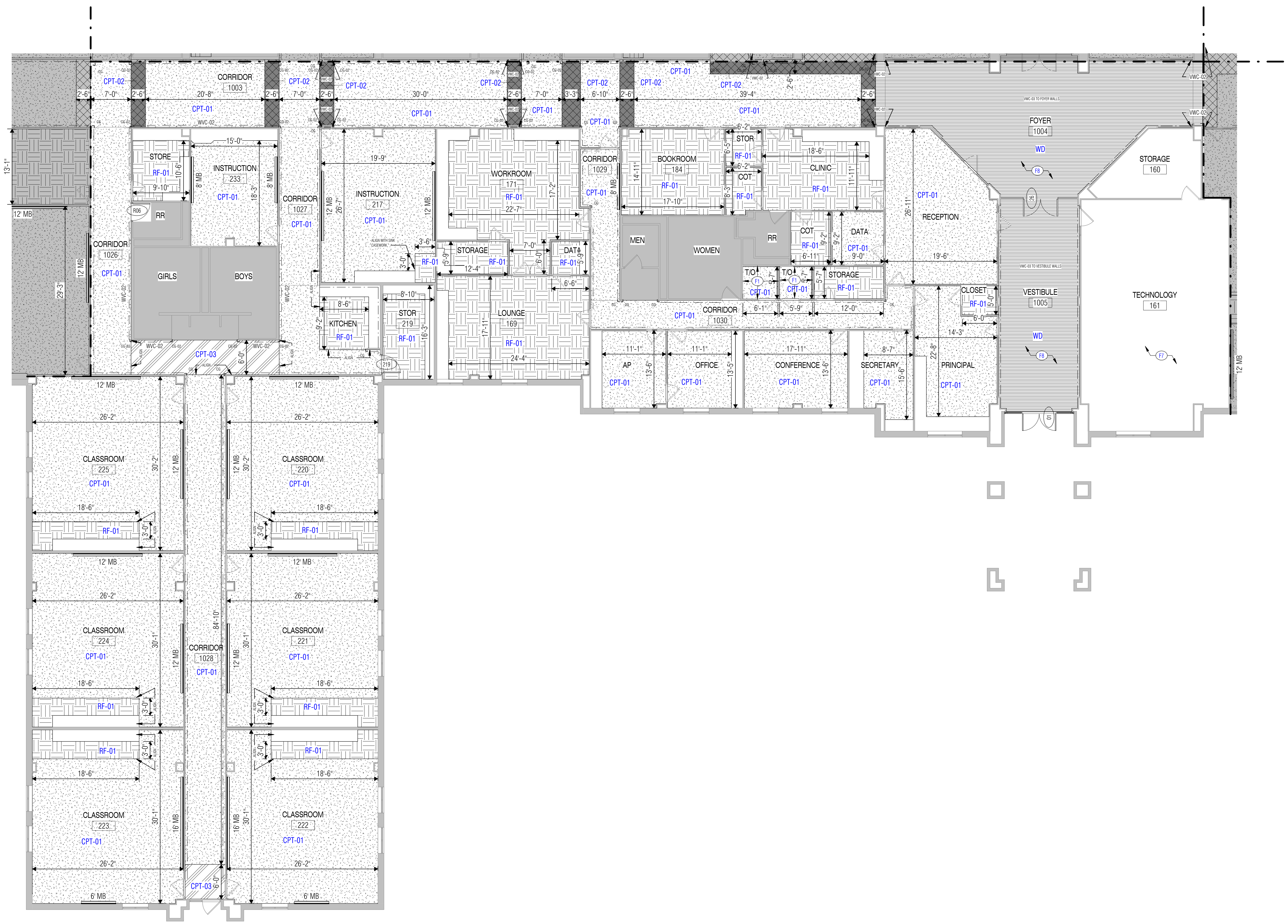
T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
—·—·—	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

FLOOR PLAN KEYED NOTES

F1	WALL PADS
F7	(1) UNINSTANTIATED ROLLED CARPET BE PROVIDED TO CCISD FOR INSTALLATION AT A LATER TIME
F8	WOOD TO BE REFINISHED, STAINED, AND SEALED



1 FLOOR PLAN - UNIT D
SCALE: 1/8" = 1'-0"

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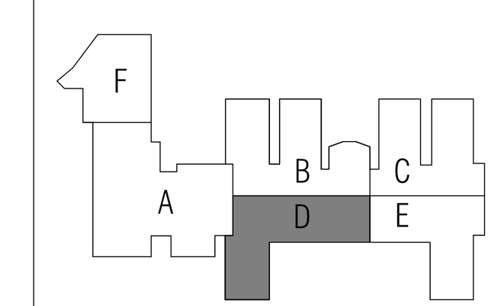
CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director Approver	Drawn By Author
Designer Designer	Quality Control
Proj. Arch. Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - FLOOR PLAN - UNIT D

SHEET NO.
A22.11D

PLAN NORTH TRUE NORTH

1 FLOOR PLAN - UNIT E
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. Building to receive repaint throughout, including handrails and exposed structure.
3. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

CO-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02 RF-03 RF-04	RESILIENT FLOOR - GYMNASIUM RESILIENT FLOOR - RED STRIPING RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
— · — · —	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

FLOOR PLAN KEYED NOTES

F1	WALL PADS

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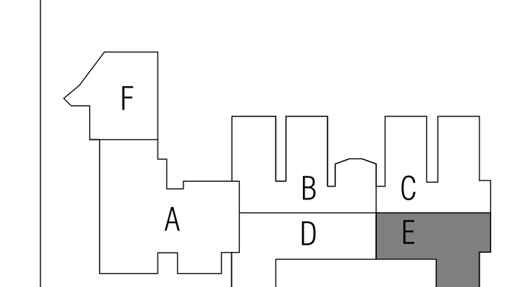


KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

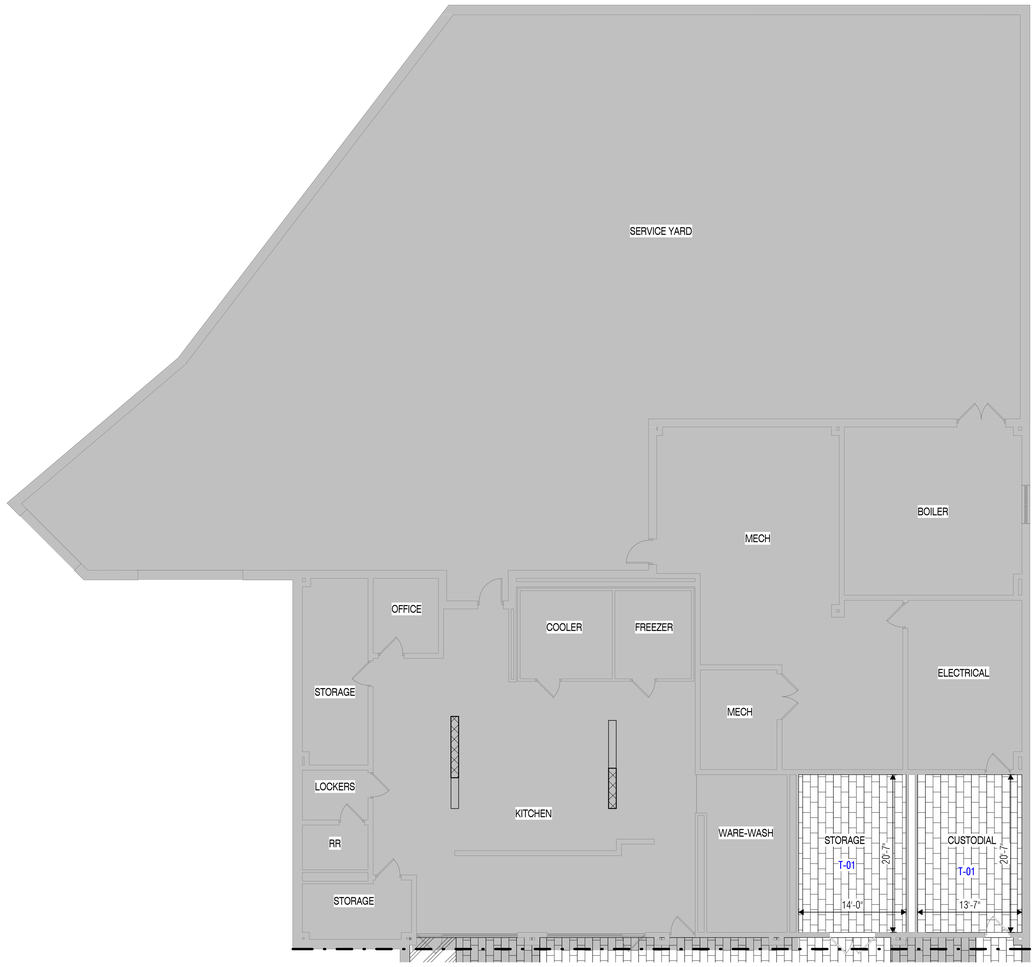
Director Approver
Designer Designer
Proj. Arch. Checker
Drawn By Author
Quality Control

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - FLOOR PLAN - UNIT E

SHEET NO.
A22.11E

CCISD Priority Repairs - FAPE GOFE ROBE



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - UNIT F
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. Building to receive repaint throughout, including handrails and exposed structure.
3. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

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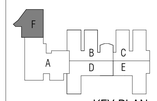


KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director Approver
Designer Designer
Proj. Arch. Checker
Drawn By Author
Quality Control

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - FLOOR PLAN - UNIT F

SHEET NO.
A22.11F

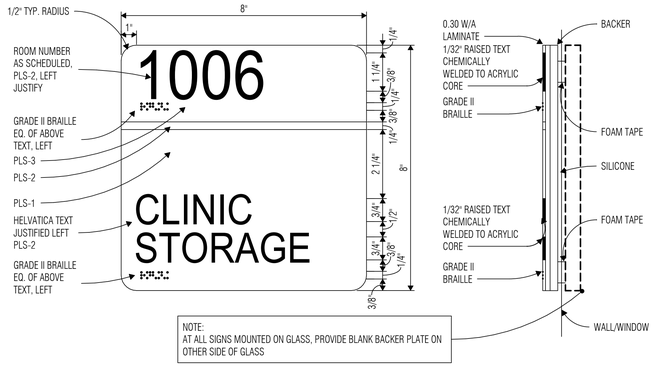
CCISD Priority Repairs - FAPE GOFE ROBE

GRAPHICS SCHEDULE

OWNER NUMBER	OWNER NUMBER	ROOM NAME	SIGNAGE TYPE	SIGNAGE TEXT
UNIT A				
209		CLASSROOM	B	CLASSROOM
210		CLASSROOM	B	CLASSROOM
226		CLASSROOM	B	CLASSROOM
227		RR	A	RR
234		SCIENCE CLASSROOM	A	SCIENCE CLASSROOM
236		ART CLASSROOM	A	ART CLASSROOM
237		STORAGE	A	STORAGE
238		STORAGE	A	STORAGE
238		KILN	A	KILN
239		SPEECH	A	SPEECH
240		CLASSROOM	B	CLASSROOM
241		CLASSROOM	B	CLASSROOM
242		CLASSROOM	B	CLASSROOM
244		STORAGE	A	STORAGE
245		STORAGE	A	STORAGE
246		BOYS	D	BOYS
247		GIRLS	C	GIRLS
248		RR	E	RESTROOM
249		MECH	A	MECHANICAL
251		CUST	A	CUSTODIAL
252		GIRLS	C	GIRLS
253		BOYS	D	BOYS
254		MUSIC	A	MUSIC
255		STORAGE	A	STORAGE
256		HEALTH	A	HEALTH
257		RAMP	A	RAMP
258		P.E. OFFICE	A	P.E. OFFICE
259		STAGE STORAGE	A	STAGE STORAGE
260		P.E. STORAGE	A	P.E. STORAGE
261		STAIR	A	STAIR
262		GYMNASIUM	A	GYMNASIUM
263		CAFETERIA	A	CAFETERIA
264		STAGE	A	STAGE
284A		STOR	A	STORAGE
284B		IDF	A	IDF
UNIT B				
156		LIBRARY	A	LIBRARY
157		WORKROOM	A	WORKROOM
158		A/V STORAGE	A	A/V STORAGE
185		MECH	A	MECHANICAL
188		RR	E	RESTROOM
189		GIRLS	C	GIRLS
190		BOYS	D	BOYS
191		OFFICE	A	OFFICE
192		CLASSROOM	B	CLASSROOM
193		CLASSROOM	B	CLASSROOM
194		CLASSROOM	B	CLASSROOM
195		CLASSROOM	B	CLASSROOM
196		CLASSROOM	B	CLASSROOM
197		CLASSROOM	B	CLASSROOM
198		CLASSROOM	B	CLASSROOM
199		STORAGE	A	STORAGE
200		STORAGE	A	STORAGE
201		IDF	A	IDF
202		STORAGE	A	STORAGE
203		CLASSROOM	B	CLASSROOM
204		CLASSROOM	B	CLASSROOM
205		CLASSROOM	B	CLASSROOM
206		CLASSROOM	B	CLASSROOM
207		CLASSROOM	B	CLASSROOM
208		CLASSROOM	B	CLASSROOM
211		ELEC	A	ELECTRICAL
212		CUST	A	CUSTODIAL
213		RR	E	RESTROOM
214		GIRLS	C	GIRLS
215		BOYS	D	BOYS
216		SPEECH	A	SPEECH
UNIT C				
101		INSTRUCTION	A	INSTRUCTION
102		CLASSROOM	B	CLASSROOM
103		CLASSROOM	B	CLASSROOM
104		CLASSROOM	B	CLASSROOM
105		CLASSROOM	B	CLASSROOM
106		CLASSROOM	B	CLASSROOM
107		CLASSROOM	B	CLASSROOM
108		CLASSROOM	B	CLASSROOM
109		STORAGE	A	STORAGE
110		STORAGE	A	STORAGE
111		STORAGE	A	STORAGE
112		ELEC	A	ELECTRICAL
113		RR	E	RESTROOM
114		GIRLS	C	GIRLS
115		BOYS	D	BOYS
116		STORAGE	A	STORAGE
132		INSTRUCTION	A	INSTRUCTION
133		CLASSROOM	B	CLASSROOM
134		CLASSROOM	B	CLASSROOM
135		CLASSROOM	B	CLASSROOM
136		CLASSROOM	B	CLASSROOM
137		CLASSROOM	B	CLASSROOM
138		CLASSROOM	B	CLASSROOM
139		CLASSROOM	B	CLASSROOM
140		MECH	A	MECHANICAL
142		RR	E	RESTROOM
143		GIRLS	C	GIRLS
144		BOYS	D	BOYS
145		STORAGE	A	STORAGE
UNIT D				
155		KIVA	A	RESTROOM
160		STORAGE	A	STORAGE
161		TECHNOLOGY	A	TECHNOLOGY
162		RECEPTION	A	RECEPTION
163		PRINCIPAL	A	PRINCIPAL
164		CLOSET	A	CLOSET
165		SECRETARY	A	SECRETARY
166		CONFERENCE	A	CONFERENCE
167		OFFICE	A	OFFICE
168		AP	A	ASSISTANT PRINCIPAL
169		LOUNGE	A	LOUNGE
170		DATA	A	DATA
171		WORKROOM	A	WORKROOM

GRAPHICS SCHEDULE

OWNER NUMBER	OWNER NUMBER	ROOM NAME	SIGNAGE TYPE	SIGNAGE TEXT
172		STORAGE	A	STORAGE
173		MEN	D	MEN
174		WOMEN	C	WOMEN
175		T/O	E	RESTROOM
176		T/O	E	RESTROOM
177		STORAGE	A	STORAGE
178		DATA	A	DATA
179		CLINIC	A	CLINIC
180		COT	A	COT
181		RR	E	RESTROOM
182		COT	A	COT
183		STOR	A	STORAGE
184		BOOKROOM	A	BOOKROOM
217		INSTRUCTION	A	INSTRUCTION
219		STOR	A	STORAGE
220		CLASSROOM	B	CLASSROOM
221		CLASSROOM	B	CLASSROOM
222		CLASSROOM	B	CLASSROOM
223		CLASSROOM	B	CLASSROOM
224		CLASSROOM	B	CLASSROOM
225		CLASSROOM	B	CLASSROOM
228		STORE	A	STORE
229		RR	E	RESTROOM
230		GIRLS	C	GIRLS
231		BOYS	D	BOYS
233		INSTRUCTION	A	INSTRUCTION
UNIT E				
117		INSTRUCTION	A	INSTRUCTION
118		GIFTED & TALENTED	A	G/T
119		CLASSROOM	B	CLASSROOM
120		CLASSROOM	B	CLASSROOM
121		CLASSROOM	B	CLASSROOM
122		CLASSROOM	B	CLASSROOM
123		CLASSROOM	B	CLASSROOM
124		CLASSROOM	B	CLASSROOM
125		CLASSROOM	B	CLASSROOM
126		CLASSROOM	B	CLASSROOM
127		CUST	A	CUSTODIAL
128		RR	E	RESTROOM
129		GIRLS	C	GIRLS
130		BOYS	D	BOYS
131		INSTRUCTION	A	INSTRUCTION
146		CLASSROOM	B	CLASSROOM
147		STORAGE	A	STORAGE
148		STORAGE	A	STORAGE
149		INSTRUCTION	A	INSTRUCTION
152		ELEC	A	ELECTRICAL
153		MDF	A	MDF
154		CLASSROOM	B	154
159		PLROOM	A	PLROOM
UNIT F				
264		CUSTODIAL	A	CUSTODIAL
265		STORAGE	A	STORAGE
266		WARE-WASH	A	WARE-WASH
267A		COOLER	A	COOLER
267B		FREEZER	A	FREEZER
269		STORAGE	A	STORAGE
270		LOCKERS	A	LOCKERS
271		RR	E	RESTROOM
272		STORAGE	A	STORAGE
273		OFFICE	A	OFFICE
274		BOILER	A	BOILER
275		MECH	A	MECHANICAL
276		MECH	A	MECHANICAL
277		ELECTRICAL	A	ELECTRICAL



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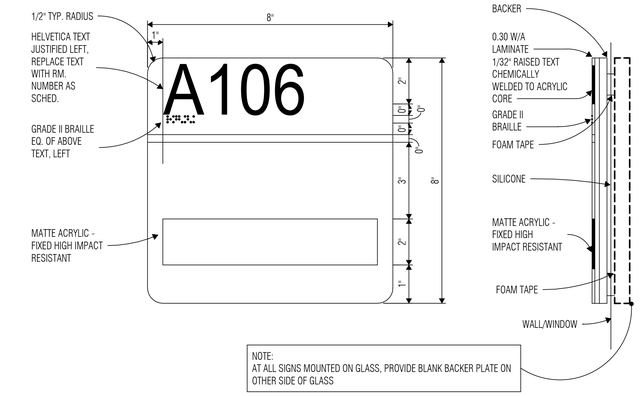

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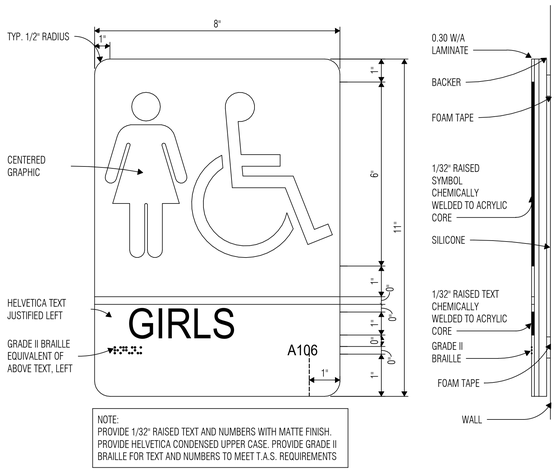

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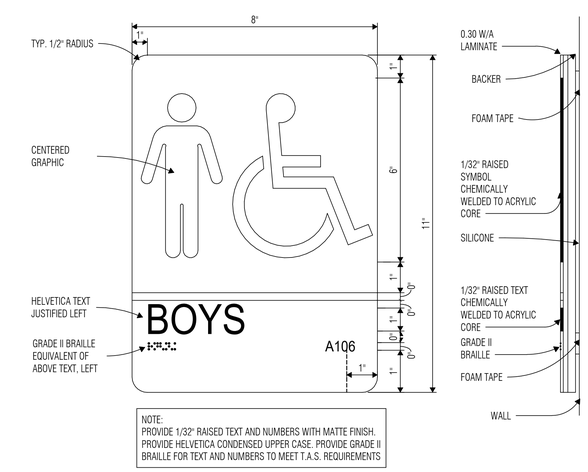

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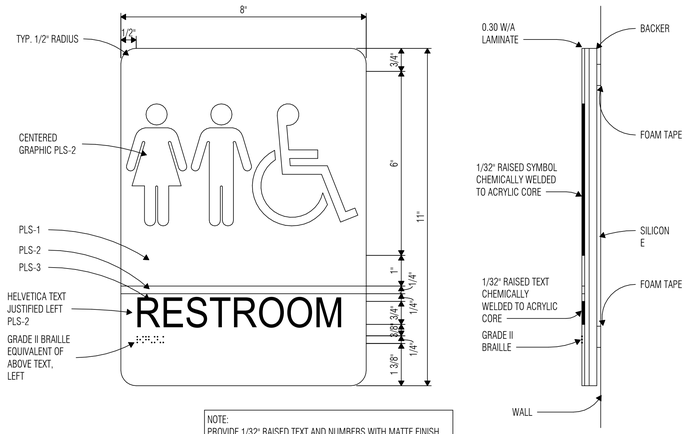

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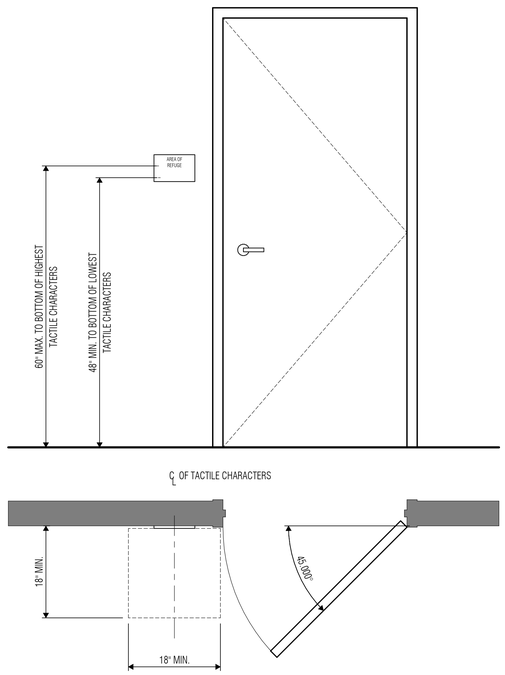

6 DETAIL/ELEV. DOOR SIGN
SCALE: 1" = 1'-0"

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBOBE

REGISTERED ARCHITECT
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11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

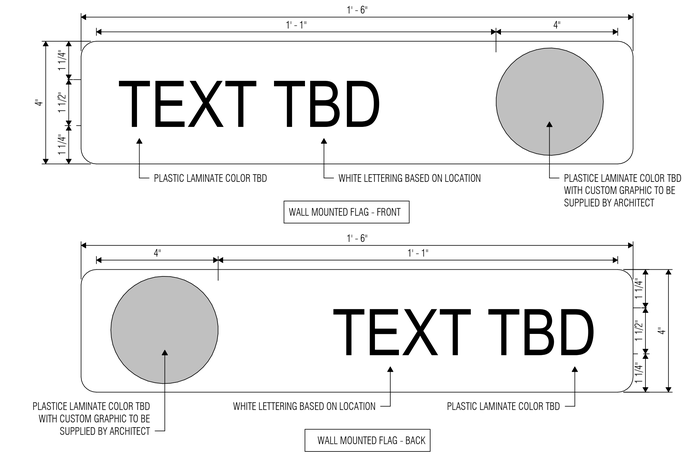
24-046.00

SHEET TITLE

GOFE - SIGNAGE TYPES & SCHEDULE

SHEET NO.

A22.61



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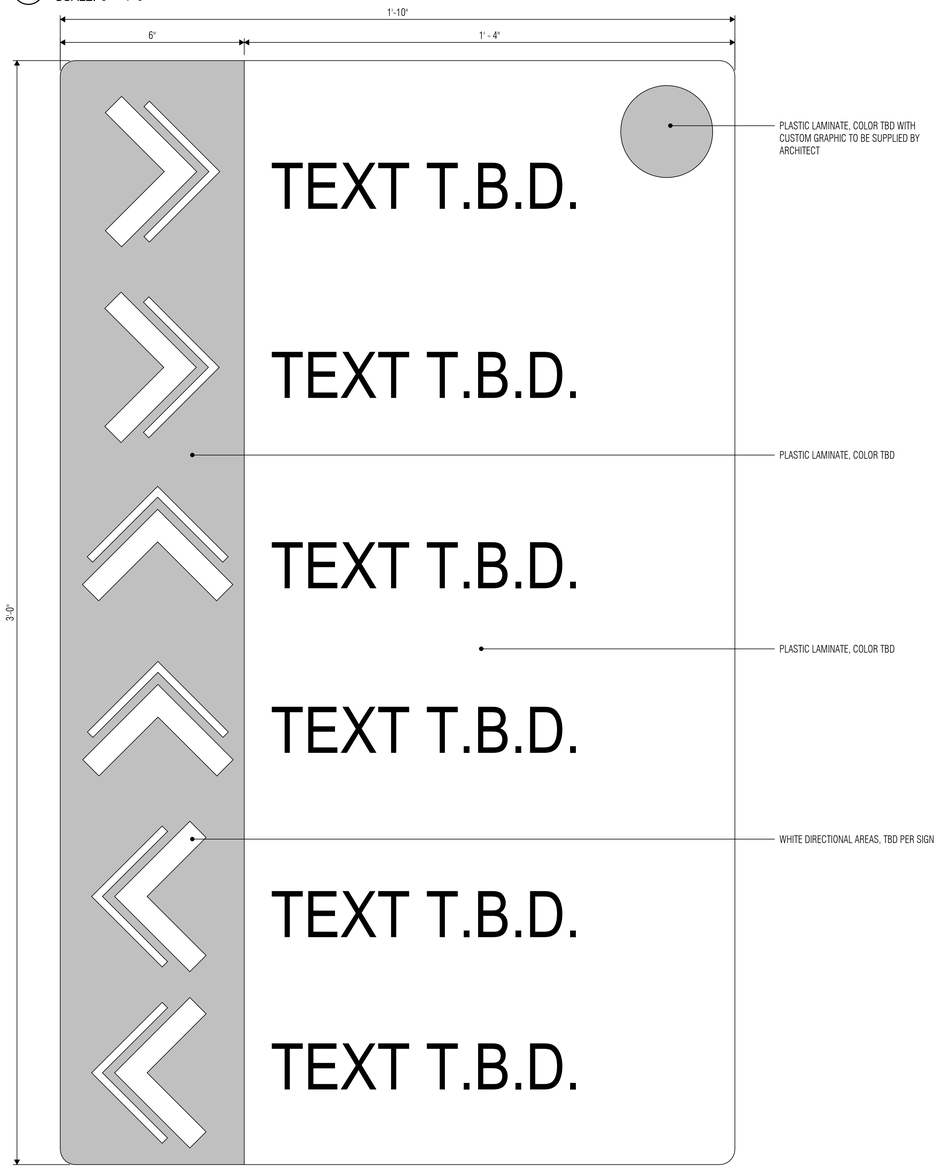

1 SIGNAGE TYPE "L"

SCALE: 6" = 1'-0"

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CCISD PROJECT NO:
2025.402

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11/14/2024

ISSUED: 11/14/2024

REVISIONS

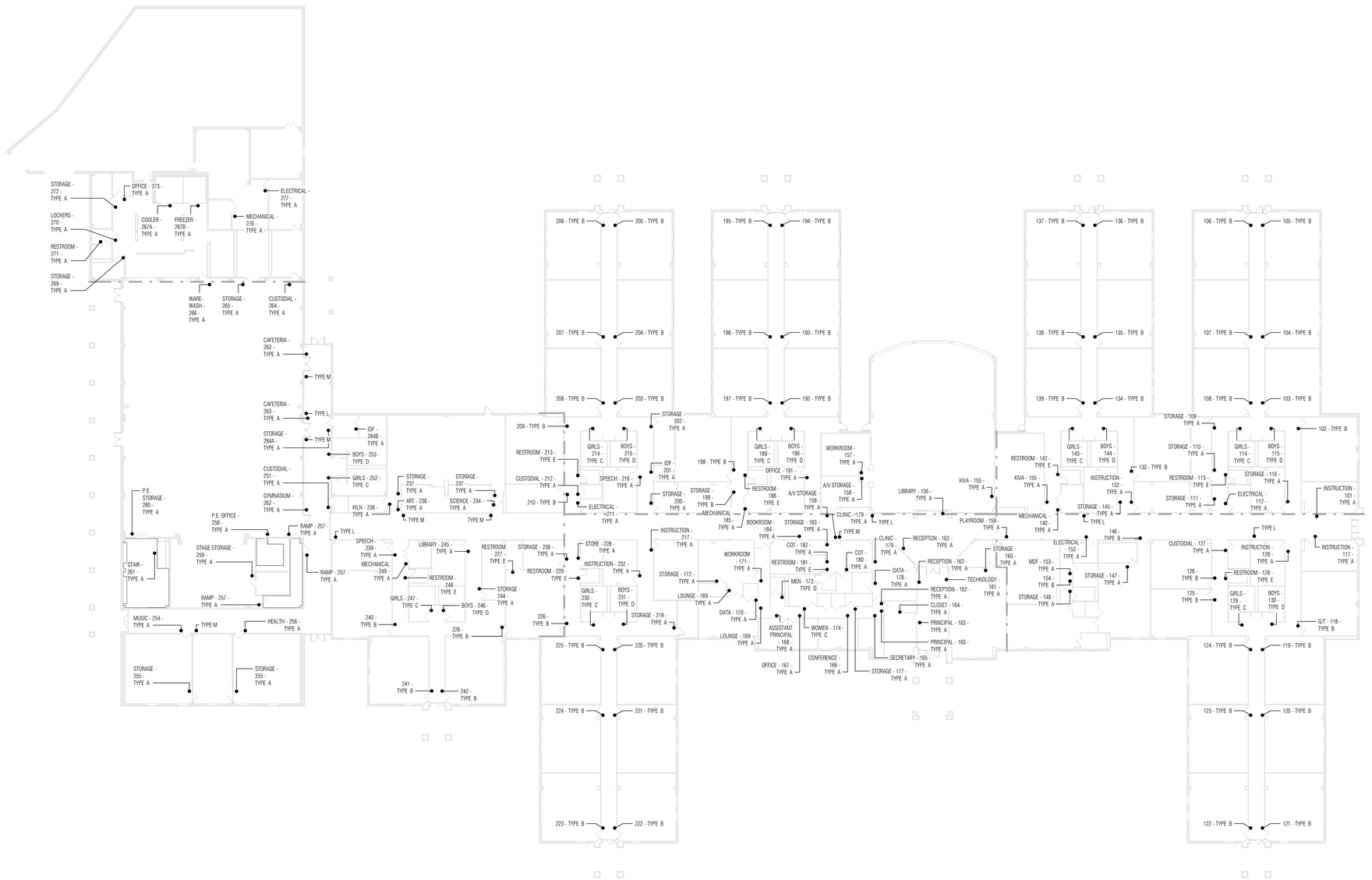
Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - SIGNAGE TYPES

SHEET NO.
A22.62



1 SIGNAGE & WAYFINDING PLAN
SCALE: 3/64" = 1'-0"

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CCISD PROJECT NO:
2025.402

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11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

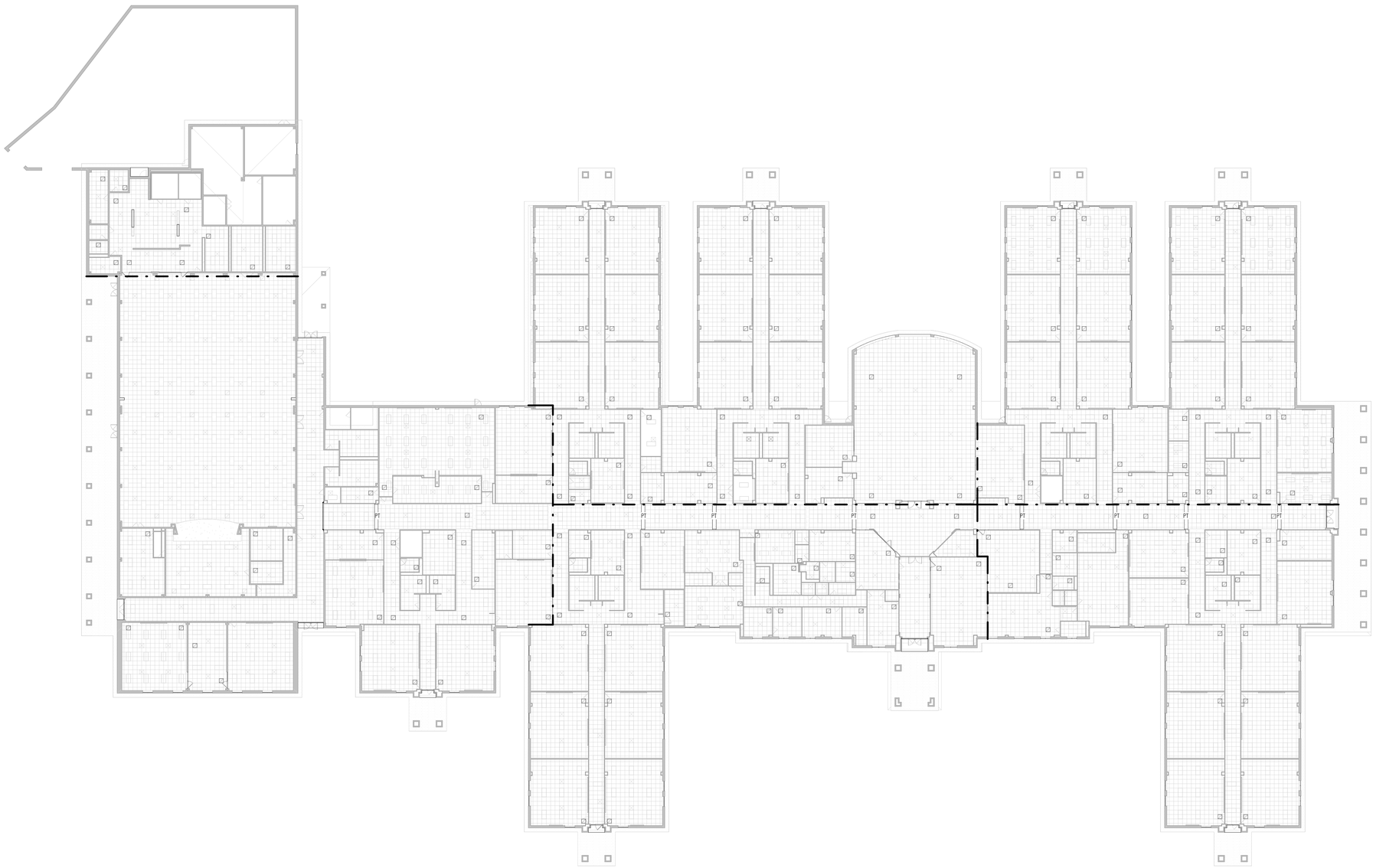
24-046.00

SHEET TITLE

GOFE - SIGNAGE & WAYFINDING PLAN

SHEET NO.

A22.63



1 OVERALL REFLECTED CEILING PLAN
SCALE: 3/64" = 1'-0"

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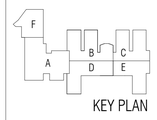

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

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Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - OVERALL
REFLECTED CEILING PLAN

SHEET NO.

A26.11

FINISH ACCESSORY, FURNITURE AND EQUIPMENT SCHEDULE

NOTE: ALL MATERIALS, PRODUCTS, SIZES, COLORS AND PATTERNS ARE THE BASIS OF DESIGN. REFERENCE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS MEETING THE DESIGN INTENT. SUBSTITUTIONS WILL BE CONSIDERED WHEN SUBMITTED IN COMPLIANCE WITH SECTION 01 62 00 – PRODUCT OPTIONS.

MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER INFO			SIZE	COMMENTS
			MANUFACTURER	SERIES/STYLE	COLOR/FINISH		
FLOOR FINISH ACCESSORY							
FFA-01	FLOOR TRANSITION	09 68 00	Johnsonite	Slimline Transition	Charcoal		CPT TO RF
FFA-02	FLOOR TRANSITION	09 68 00	Johnsonite	Slimline Transition	Charcoal		CPT TO CPT
FFA-03	FLOOR TRANSITION	09 68 00	Schluter	Reno-U	Satin Nickel Anodized Aluminum		CPT TO T
FFA-04	FLOOR TRANSITION	09 68 00	Pemco	2727 Series	Aluminum		T TO RF
G-01	GROUT - COLOR A	09 30 13	Mapei	--	Pearl Gray 5019		PORCELAIN FLOOR
SPECIALTY EQUIPMENT							
ATH	Wall Pads	11 66 00	ACI	-	Galaxy Grey	TBD	Regroup Room Wall Pads
PC-01	PLATFORM CURTAIN	10 21 23	KM Fabrics		Navy	--	Stage Curtains
WALL FINISH ACCESSORY							
CG-01	CORNER GUARD	10 26 13	CSI	SM20	Fog		
CG-02	CORNER GUARD	10 26 13	CSI	SM20			
G-02	GROUT - COLOR B	09 30 13	Mapei	--	Pearl Gray 5019		WALL TILE
WFA-01	Tile Edge/Corner Trim - Metal	09 30 00	Schluter	Quadec	Satin Nickel Anodized Aluminum	-	TOP & CORNER TRIM

MATERIAL FINISH SCHEDULE

NOTE: ALL MATERIALS, PRODUCTS, SIZES, COLORS AND PATTERNS ARE THE BASIS OF DESIGN. REFERENCE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS MEETING THE DESIGN INTENT. SUBSTITUTIONS WILL BE CONSIDERED WHEN SUBMITTED IN COMPLIANCE WITH SECTION 01 62 00 – PRODUCT OPTIONS.

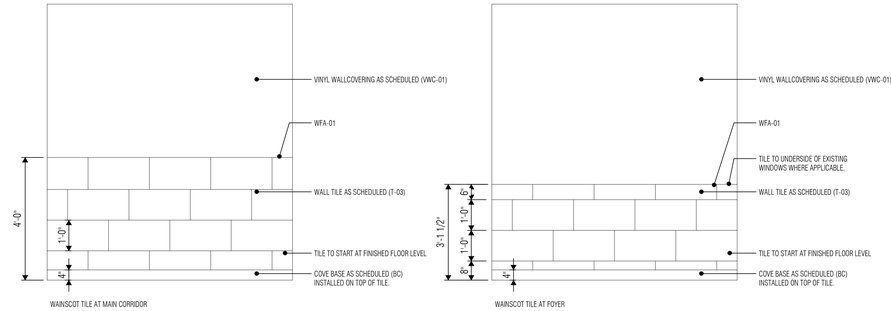
MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER INFO				COMMENTS
			MANUFACTURER	SERIES/STYLE	COLOR/FINISH	SIZE	
BASE FINISH							
BC-01	Base, Rubber Coved	09 65 00	Johnsonite	4" Cove	Charcoal	4"	
BC-02	Base, Rubber Coved Black	09 65 00	Johnsonite	4" Cove	Black	4"	Base at Stage
BT	Base, Tile	09 30 00	Daltile	Portfolio	White PF02	6" x 24"	
CEILING FINISH							
ACT-01	Acoustic Ceiling Tile (24X24)	09 51 00	Armstrong	Fine Fissured Humiguard	White	24" x 24"	
FLOOR FINISH							
CPT-01	Carpet - Broadloom Field	09 68 00	Tarkett	Paradigm	Arabian	Roll	
CPT-02	Carpet - Broadloom Accent	09 68 00	Tarkett	Paradigm	Dapple	Roll	
CPT-03	Carpet - Walk-Off	09 68 00	Tarkett	Assertive Action	Steelwork	Roll	
CPT-04	Carpet - Broadloom Blue Accent	09 68 00	Tarkett	TBD	TBD	Roll	
RF-01	Resilient Floor - Field	09 65 44	Forbo	Marmoleum Modular	Pluto	20" x 20"	
RF-02	Resilient Floor - Gym	09 65 44	Forbo	Marmoleum MCT	Eiger	13" x 13"	
RF-03	Resilient Floor - Red Striping	09 65 44	Forbo	Marmoleum MCT	Red	--	
RF-04	Resilient Floor - Blue Striping	09 65 44	Forbo	Marmoleum MCT	Blue	--	
T-01	Tile - Porcelain (T-01)	09 30 00	Daltile	Portfolio	White PF02	12" x 24"	
T-02	Tile - Porcelain (T-02)	09 30 00	Daltile	Portfolio	Ash Grey PF05	12" x 24"	
WD	Existing Wood Floor	09 64 29	TBD	TBD	TBD	--	Refinish Existing Wood Floor.
MILLWORK & ARCHITECTURAL FINISHES							
PL-01	Plastic Laminate - Signage 01	12 32 16	Wilsonart	TBD	TBD	--	
PL-02	Plastic Laminate - Signage 02	12 32 16	Wilsonart	TBD	TBD	--	
WALL FINISH							
PT-01	Paint - Field	09 91 00	Sherwin Williams	--	TBD	--	To match VWC-01
PT-02	Paint - Accent	09 91 00	Sherwin Williams	--	TBD	--	To match VWC-02
PT-03	Paint - Accent 02	09 91 00	Sherwin Williams	--	TBD	--	CONTRACTOR TO VERIFY AND MATCH EXISTING COLOR.
PT-04	Paint - Accent 03	09 91 00	Sherwin Williams	--	TBD	--	HOLLOW METAL DOOR FRAME.
T-03	Tile - Porcelain	09 30 00	Crossville	Shades 2.0	Frost UPS SHD41	12" x 24"	
VWC-01	Vinyl Wallcovering - Field	09 72 16	Koroseal	Linsey	Linum SE21-09	--	
VWC-02	Vinyl Wallcovering - Accent 01	09 72 16	Koroseal	Desert Sand	Newburyport Blue 5921-73	--	
VWC-03	Vinyl Wallcovering - Accent 02	09 72 16	Koroseal	Linsey	Angora SE21-17	--	Vestibule and Foyer

DOOR HARDWARE SCHEDULE

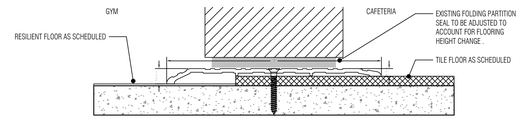
DOOR NUMBER	DOOR TYPE	FRAME TYPE	HDWR SET	REMARKS
UNIT A				
04	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
06	EX-HM	EX-HM		TWO DOG DOWN CYLINDER REPLACEMENTS + MULLION CYLINDER REPLACEMENT
07	EX-HM	EX-HM		TWO DOG DOWN CYLINDER REPLACEMENTS + MULLION CYLINDER REPLACEMENT
10	EX-AL	EX-AL		TWO DOG DOWN CYLINDER REPLACEMENTS
11	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
21	EX	EX		TWO CYLINDER REPLACEMENT IN TWO SWITCHES @ OH COILING DOOR - MATCH DISTRICT MASTER SYSTEM
23	EX-HM	EX-HM		MULLION CYLINDER REPLACEMENT
24	EX-HM	EX-HM		MULLION CYLINDER REPLACEMENT
25	EX-HM	EX-HM		MULLION CYLINDER REPLACEMENT
R01	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT B				
14	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
15	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
R02	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
R03	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT C				
16	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
17	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
18	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
R04	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
R05	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT D				
01	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
26	EX-HM	EX-HM		ONE DOG DOWN CYLINDER REPLACEMENT + MULLION CYLINDER REPLACEMENT
219	EX-PL	EX-AL		ONE CYLINDER REPLACEMENT
R06	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT E				
19	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
R09	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)

DOOR SCHEDULE NOTES

1. At Doors with a Door Type or Frame Type designation "EX", the door or door frame is existing to remain.
2. Refer to Hardware Schedule for additional information regarding hardware.



1 WAINSCOT TILE ALTERNATE
SCALE: 1/2" = 1'-0"



2 TRANSITION DETAIL AT GYM & CAFETERIA
SCALE: 6" = 1'-0"

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LEAGUE CITY, TEXAS

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Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MATERIAL FINISH & DOOR SCHEDULES

SHEET NO.
A29.01

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
STM	STEAM
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

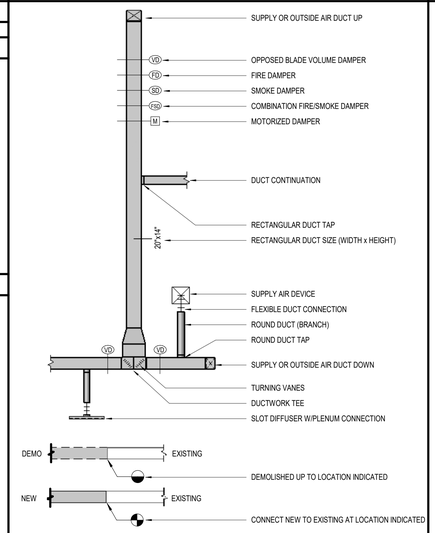
Y

Y	YARD HYDRANT

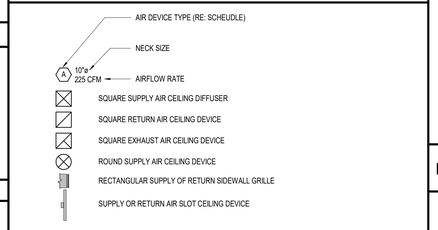
Z

Z	ZONE

DUCTWORK



AIR DEVICE TYPES



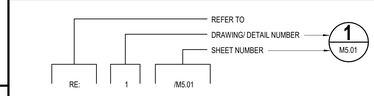
WALL MOUNTED SENSOR TYPES

T	THERMOSTAT	CO	CARBON MONOXIDE SENSOR
H	HUMIDISTAT	N	NITROGEN DIOXIDE SENSOR
C	CARBON DIOXIDE SENSOR	$	ON/OFF SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE	HWR	HOT WATER RETURN
CHS	CHILLED WATER SUPPLY	CWS	CONDENSER WATER SUPPLY
CHR	CHILLED WATER RETURN	CWR	CONDENSER WATER RETURN
HWS	HOT WATER SUPPLY	REF	REFRIGERANT PIPING SIZED BY MFR.

DRAWING/DETAIL REFERENCE KEY



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 CUTSHEETS 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-6 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. PROVIDE INSULATED ACCESS DOORS FOR DUCTWORK DOWNSTREAM OF AIR HANDLING UNITS AT EVERY 20'-0" TO FACILITATE DUCT CLEANING. PROVIDE ACCESS DOORS WITHIN 5'-0" OF EACH ELBOW.
18. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
19. ALL CEILING MOUNTED AND WALL MOUNTED AIR DEVICE FINISHES SHALL MATCH ADJACENT ARCHITECTURAL SURFACE. CONTRACTOR SHALL COORDINATE COLOR WITH ARCHITECT.
20. NO PIPE HANGERS SHALL BE SPACED MORE THAN 10'-0" O.C. COMPLY WITH PIPE SPACING AS SPECIFIED IN THE PIPING SUPPORT SPECIFICATIONS.
21. ALL PIPING LOCATED INSIDE BUILDING SHALL BE SUPPORTED FROM THE STRUCTURE WITH SADDLE OR TRAPEZE HANGERS WITH ADJUSTABLE CLEVIS OR THREADED RODS.
22. 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.
23. MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR ALL CONDENSATE DRAIN PIPES CONNECTING TO A SINK DRAIN TAIL PIECE.
24. 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.

ROOF MOUNTED EQUIPMENT ANCHORAGE REQUIREMENTS

1. ALL ROOF MOUNTED EQUIPMENT CURBS, ROOF MOUNTED EQUIPMENT, EQUIPMENT TIE DOWNS, AND CONNECTIONS OF ALL EQUIPMENT TO BUILDING STRUCTURE FOR WIND LOADING ARE TO BE DESIGNED AND ENGINEERED BY A REGISTERED SPECIALTY ENGINEER RETAINED BY THE CONTRACTOR. DESIGN CRITERIA FOR WIND LOADING SHALL BE AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND PER LOCAL CODES FOR THE PROJECT LOCATION AND BUILDING CATEGORY. SIGNED AND SEALED DRAWINGS AND CALCULATIONS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE SUBMITTAL SHALL INCLUDE ATTACHMENT DETAILS OF THE EQUIPMENT TO THE STRUCTURE WITH DESIGN LOADS, LOCATIONS, AND METHODS OF ATTACHMENT. THE CONTRACTOR SHALL ALSO SUBMIT THE INFORMATION TO THE STRUCTURAL ENGINEER TO COORDINATE THE DESIGN OF THE PRIMARY STRUCTURAL FRAME WITH THE FINAL LOADS AND ATTACHMENTS SUBMITTED.

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

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL SYMBOL LEGEND

SHEET NO.
M20.00

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DBR Project # 240244
EK RM/TDLB/MS TN/JL LG/SS

MECHANICAL KEYED NOTES

M0.13 REMOVE EXISTING "VENT-A-KIN" EXHAUST HOOD AND FAN ASSEMBLY.

GENERAL NOTE:
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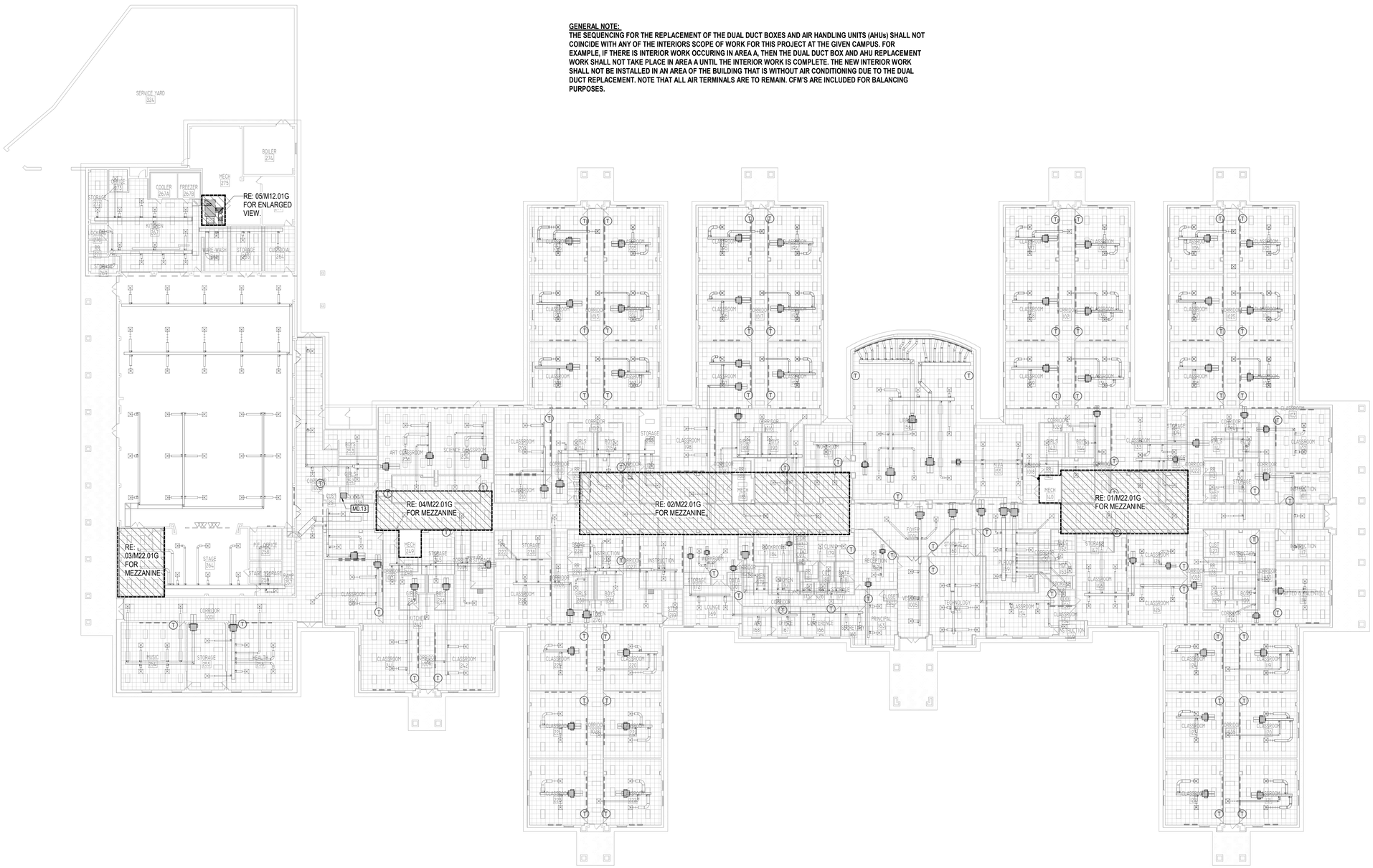

1 M22.01 **DEMO COMPOSITE MECHANICAL PLAN - LEVEL ONE**
1" = 20'-0"

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KEY PLAN

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DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO COMPOSITE MECHANICAL PLAN

SHEET NO.
M22.01

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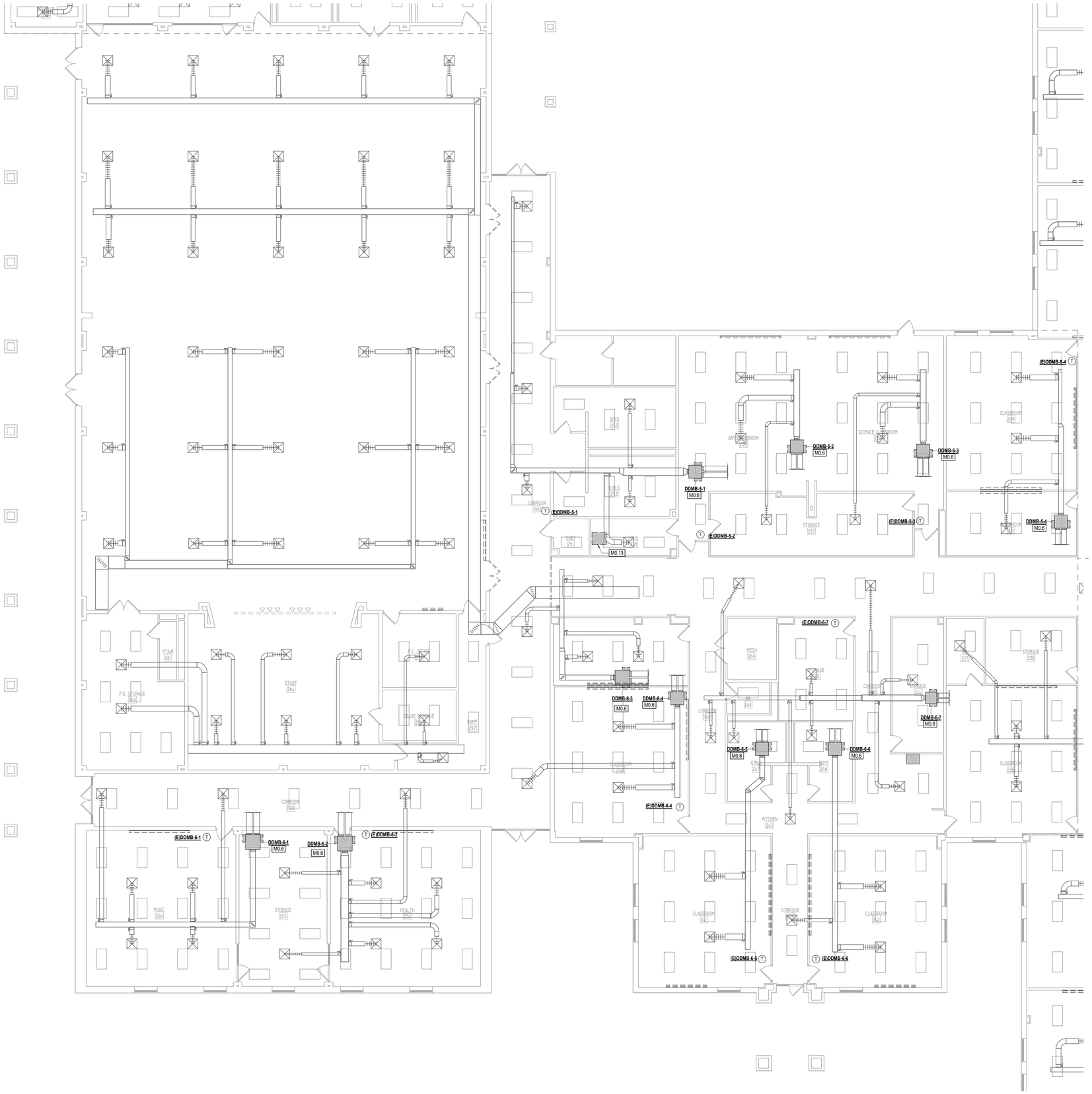

1 M22.01A **MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT A**
1/8" = 1'-0"

MECHANICAL KEYED NOTES

M0.6 REMOVE EXISTING DUAL DUCT MIXING BOXES BUILDING WIDE AT THE APPROXIMATE LOCATIONS SHOWN. ALL ASSOCIATED DUCT CONNECTIONS AND ELECTRICAL COMPONENTS THAT WILL NOT BE REUSED SHALL BE REMOVED. COORDINATE DEMOLITION OF DUAL DUCT MIXING BOXES WITH THE INTERIOR FINISHES AS SHOWN ON ARCHITECTURAL SHEETS. ENSURE TIMING OF DEMOLITION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES.

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11/4/24

ISSUED: 11/14/2024

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Approver	DBR
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PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO MECHANICAL PLAN - AREA A

SHEET NO.
M22.01A

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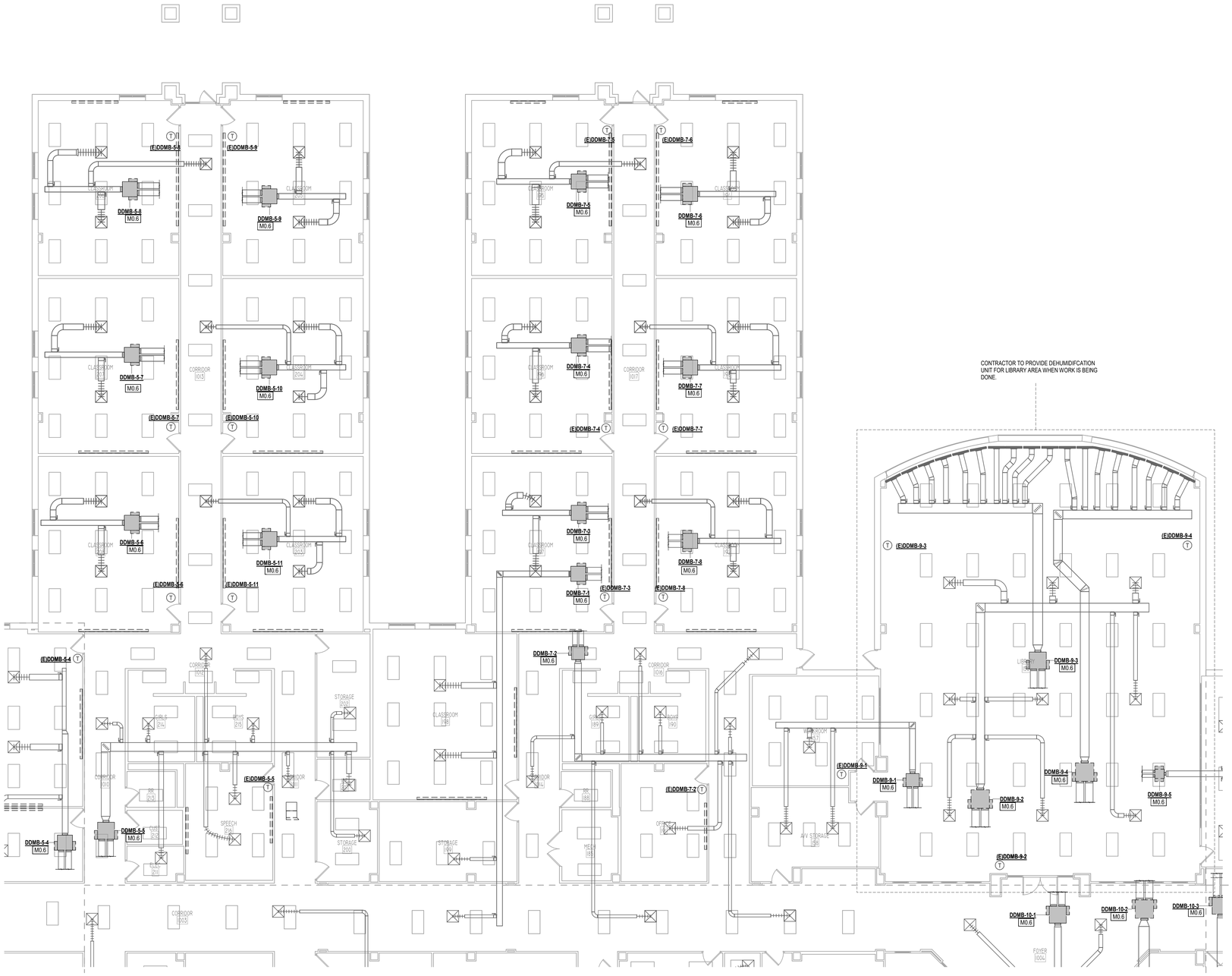

1 M22.01B **MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT B**
1/8" = 1'-0"

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CCISD PROJECT NO:
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KEY PLAN

CCISD Priority Repairs - FAPE GOFE ROBE

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ISSUED: 11/14/2024

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PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO MECHANICAL PLAN - AREA B

SHEET NO.
M22.01B

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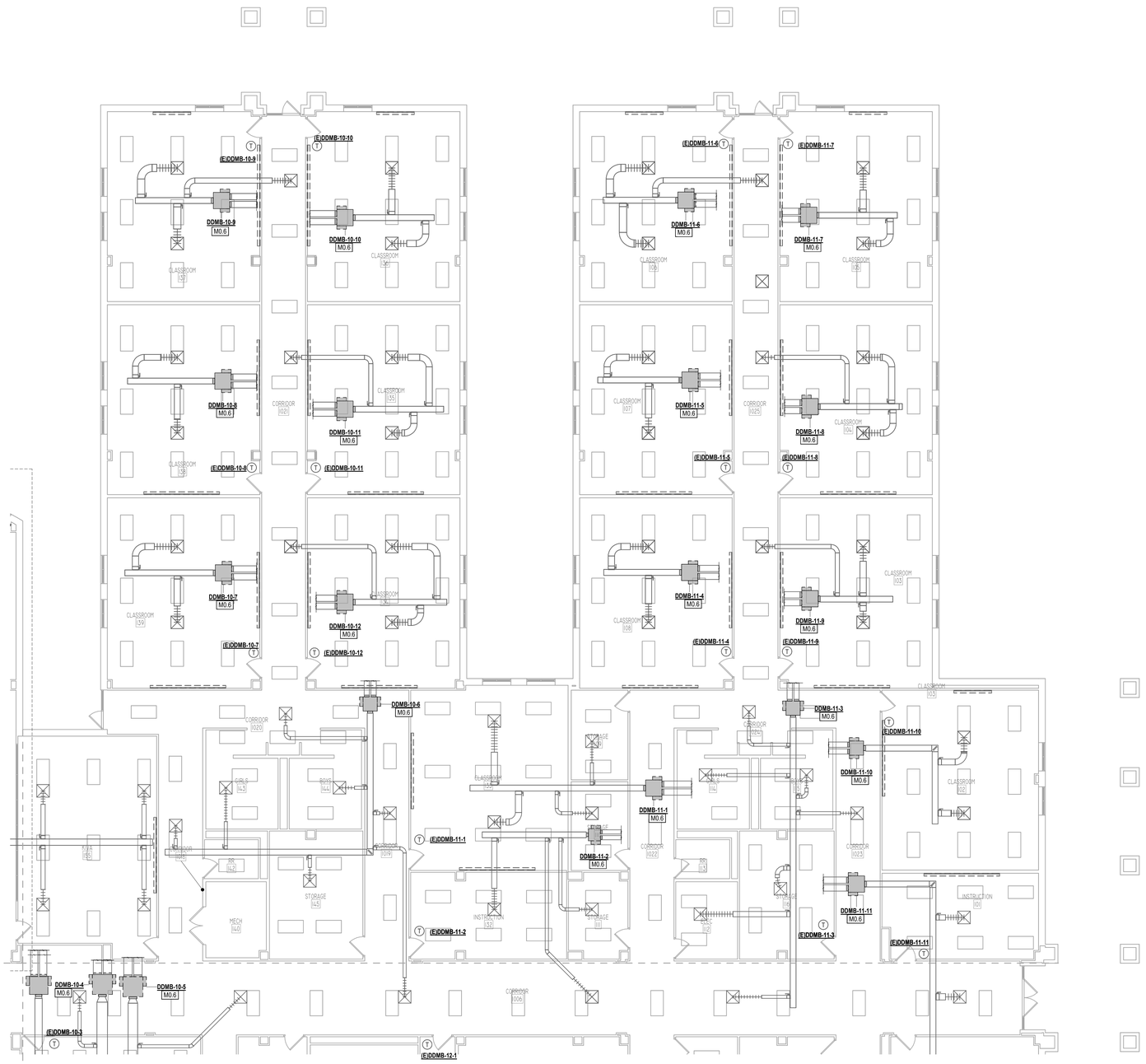

1 M22.01C **MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT C**
1/8" = 1'-0"

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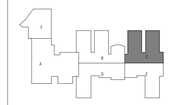
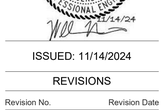


KEY PLAN

CCISD Priority Repairs - FAPE GOFE ROBE



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PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO MECHANICAL PLAN - AREA C

SHEET NO.
M22.01C

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GENERAL NOTE:
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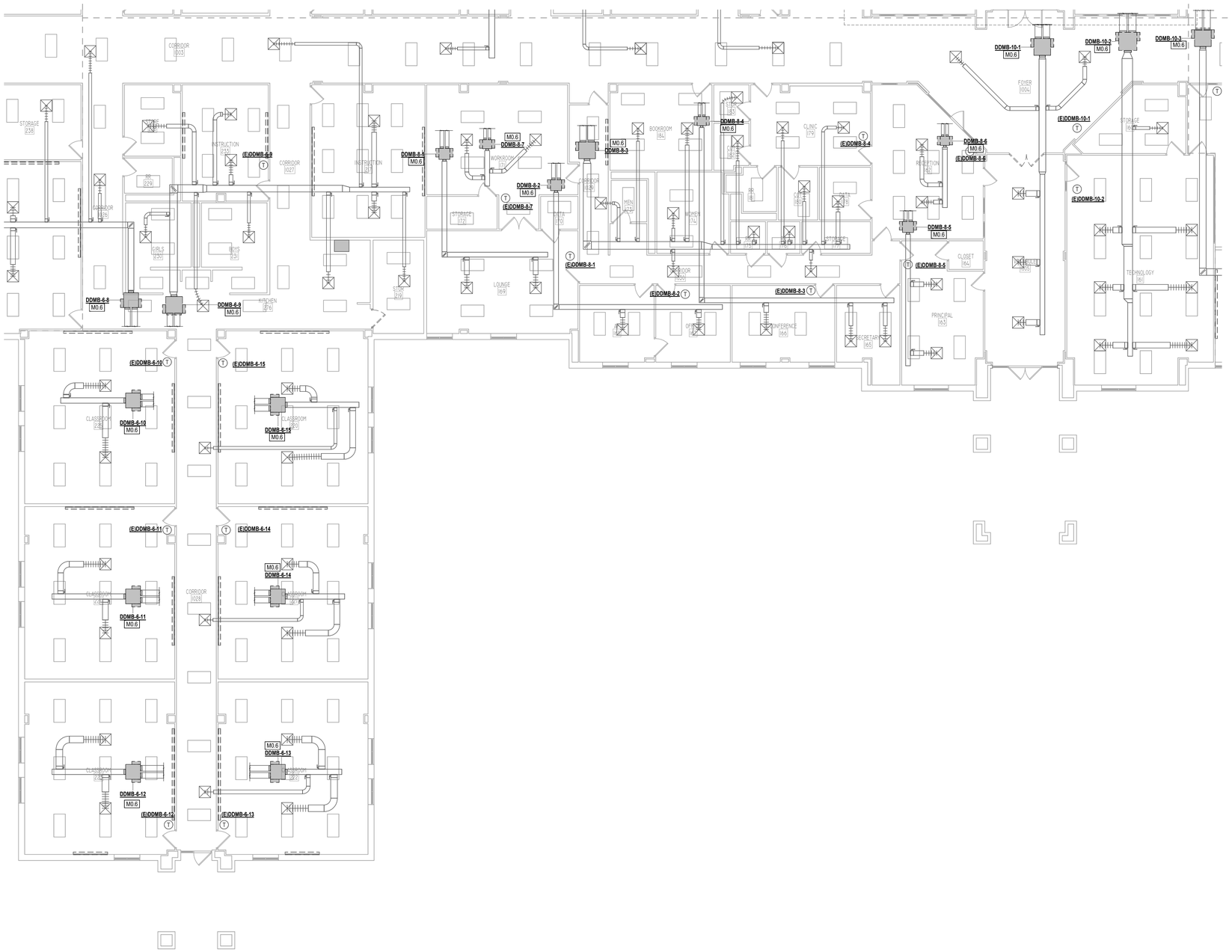

1 MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT D
M22.01D
1/8" = 1'-0"

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/4/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO MECHANICAL PLAN - AREA D

SHEET NO.
M22.01D

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DBR Project # 240244
EK RM/TDLB/IMS TN/JL LG/SS

MECHANICAL KEYED NOTES

M0.6 REMOVE EXISTING DUAL DUCT MIXING BOXES BUILDING WIDE AT THE APPROXIMATE LOCATIONS SHOWN. ALL ASSOCIATED DUCT CONNECTIONS AND ELECTRICAL COMPONENTS THAT WILL NOT BE REUSED SHALL BE REMOVED. COORDINATE DEMOLITION OF DUAL DUCT MIXING BOXES WITH THE INTERIOR FINISHES AS SHOWN ON ARCHITECTURAL SHEETS. ENSURE TIMING OF DEMOLITION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES.

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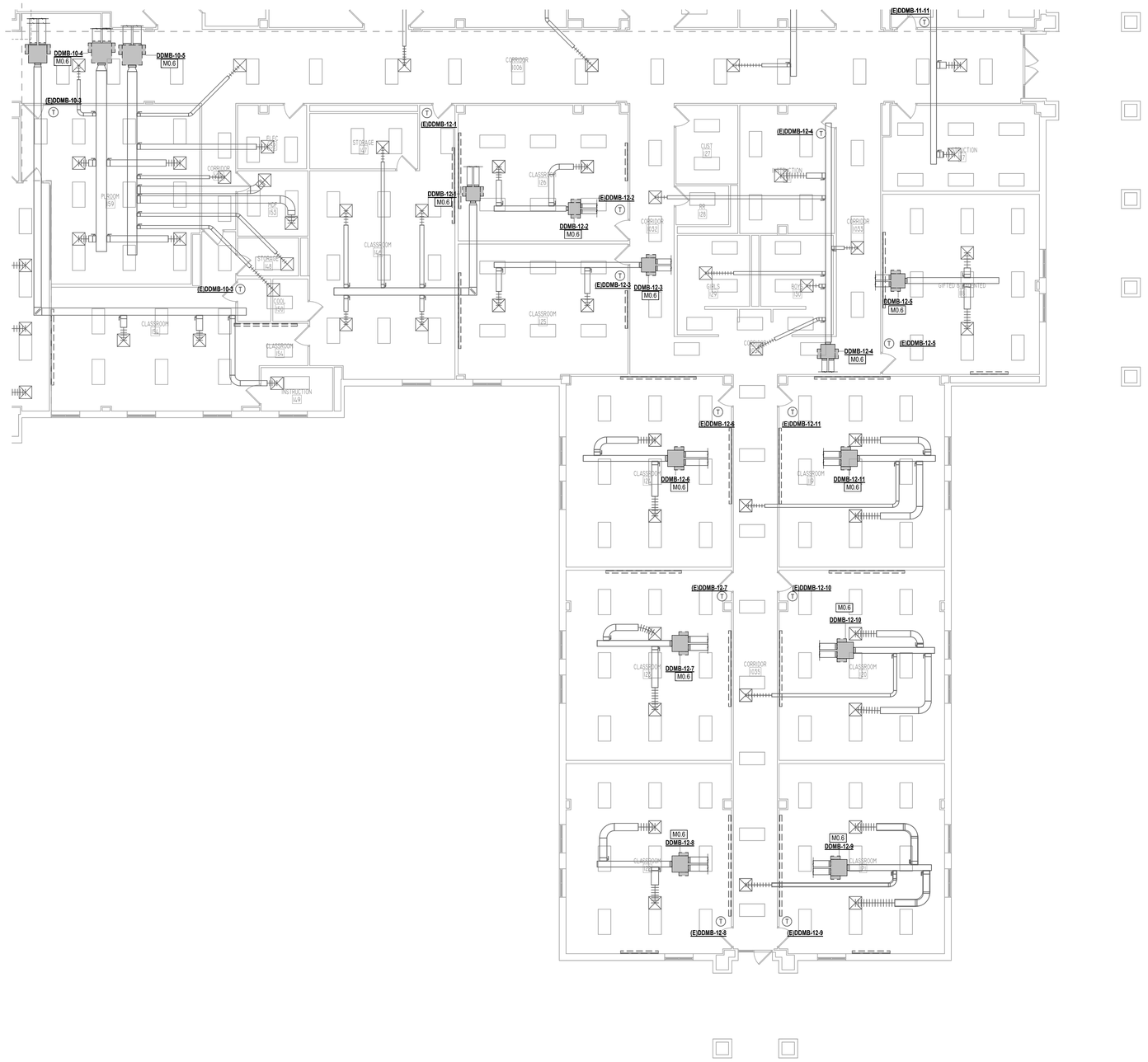

1 M22.01E **MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT E**
1/8" = 1'-0"

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11/4/24

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Approver	DBR
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Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO MECHANICAL PLAN - AREA E

SHEET NO.
M22.01E

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1 M22.01F **MECHANICAL PLAN - LEVEL ONE - DEMO - UNIT F**
1/8" = 1'-0"

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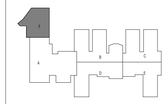

KEY PLAN

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Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO
MECHANICAL PLAN - AREA F

SHEET NO.
M22.01F

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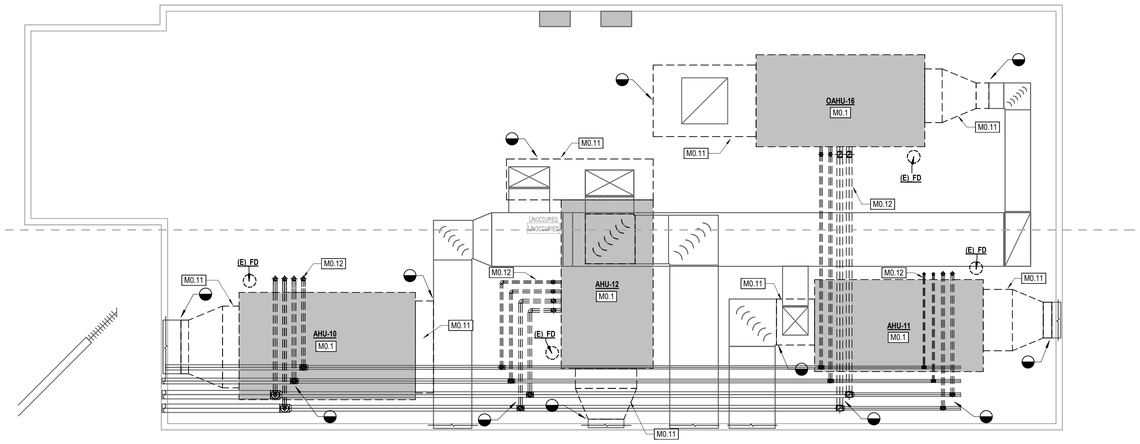
MECHANICAL KEYED NOTES

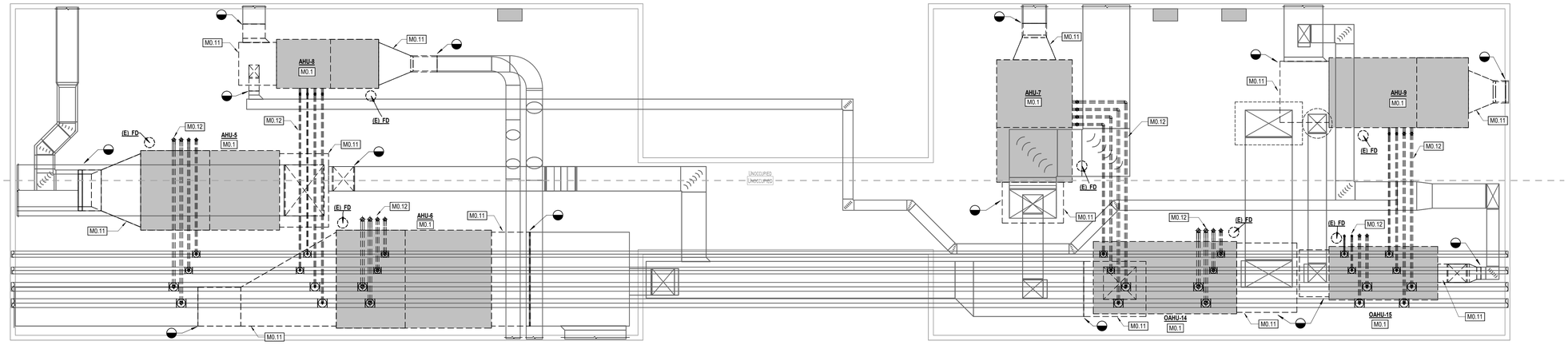
M0.1 REMOVE EXISTING AHU AS SHOWN ON PLANS. ALL ASSOCIATED CONTROLS, ELECTRICAL, VALVES, HANGERS, SUPPORTS, AND ACCESSORIES THAT WILL NOT BE REUSED SHALL BE REMOVED.

M0.11 REMOVE EXISTING DUCTWORK AS NECESSARY TO CONNECT TO NEW AHU. REMOVE ALL HANGERS, INSULATION, ACCESSORIES THAT WILL NOT BE REUSED.

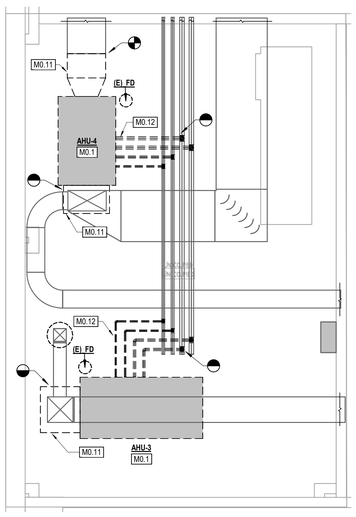
M0.12 REMOVE EXISTING PIPING AS NECESSARY TO CONNECT TO NEW AHU. REMOVE ALL HANGERS, INSULATION, ACCESSORIES THAT WILL NOT BE REUSED. FLUSH HYDRONIC PIPING WHERE AHU'S ARE BEING REPLACED.



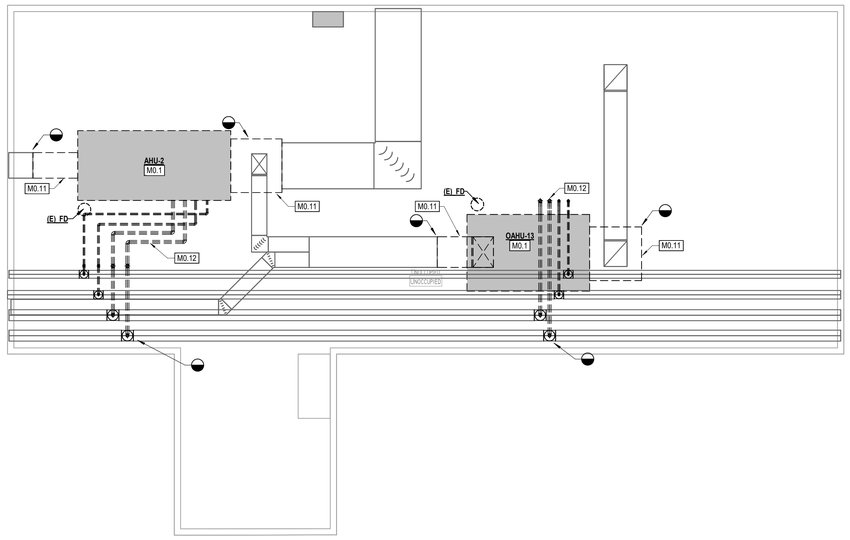
1 M22.01G **DEMO MECHANICAL PLAN - MEZZANINE PLAN - AREA C**
1/4" = 1'-0"



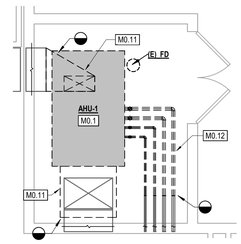
2 M22.01G **DEMO MECHANICAL PLAN - MEZZANINE PLAN - AREA B**
1/4" = 1'-0"



3 M22.01G **DEMO MECHANICAL PLAN - MEZZANINE PLAN - AREA A AT GYM**
1/4" = 1'-0"



4 M22.01G **DEMO MECHANICAL PLAN - MEZZANINE PLAN - AREA A**
1/4" = 1'-0"



5 M22.01G **MECHANICAL PLAN - LEVEL ONE - DEMO - AREA F**
1/4" = 1'-0"

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LEAGUE CITY, TEXAS

CCISD PROJECT NO:
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STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO MECHANICAL PLAN - ENLARGED VIEWS

SHEET NO.
M22.01G

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DBR Project # 240244
EK RM/TDLB/MS TN/JL LG/SS

MECHANICAL KEYED NOTES

M4.1 APPROXIMATE LOCATION OF OFCI TEMPORARY AC UNIT. UNIT SHALL BE 35 TON UNIT. CONTRACTOR TO PROVIDE FLEXIBLE CONNECTION AND MEANS TO SEAL THE BUILDING ONCE CONNECTION TO SPACE IS MADE.

M4.16 INSTALL NEW GUARDIAN III ANSUL SYSTEM WITHIN EXISTING HOOD SYSTEM AT THE APPROXIMATE LOCATION SHOWN PROVIDE NEW GUARDIAN 3 HOOD AT THE APPROXIMATE LOCATION SHOWN. INSTALL HANGERS, SUPPORTS, CONDUIT AS NECESSARY. COORDINATE INSTALLATION WITH ELECTRICAL AND INTERIOR FINISHES AS SHOWN ON PLANS. ENSURE TIMING OF INSTALLATION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES.

M4.17 PROVIDE AND INSTALL "VENT-A-KIN" EXHAUST HOOD AND FAN ASSEMBLY. LOCATE
ROUTE 6" FLEXIBLE DUCT FROM OUTLET OF HOOD UP TO CEILING. ROUTE 6# RIGO
JUST BELOW CEILING UP THROUGH ROOF. TERMINATE DUCT ABOVE ROOF MODEL RFC-7. ROOF CAP SHALL BE CONSTRUCTED OF ALUMINUM AND SHALL
DUCT SHALL BE ROUTED WITHIN FIRE-RATED ENCLOSURE FROM CEILING PENETRATION TO ROOF PENETRATION. RE: DETAIL 13/M25.02

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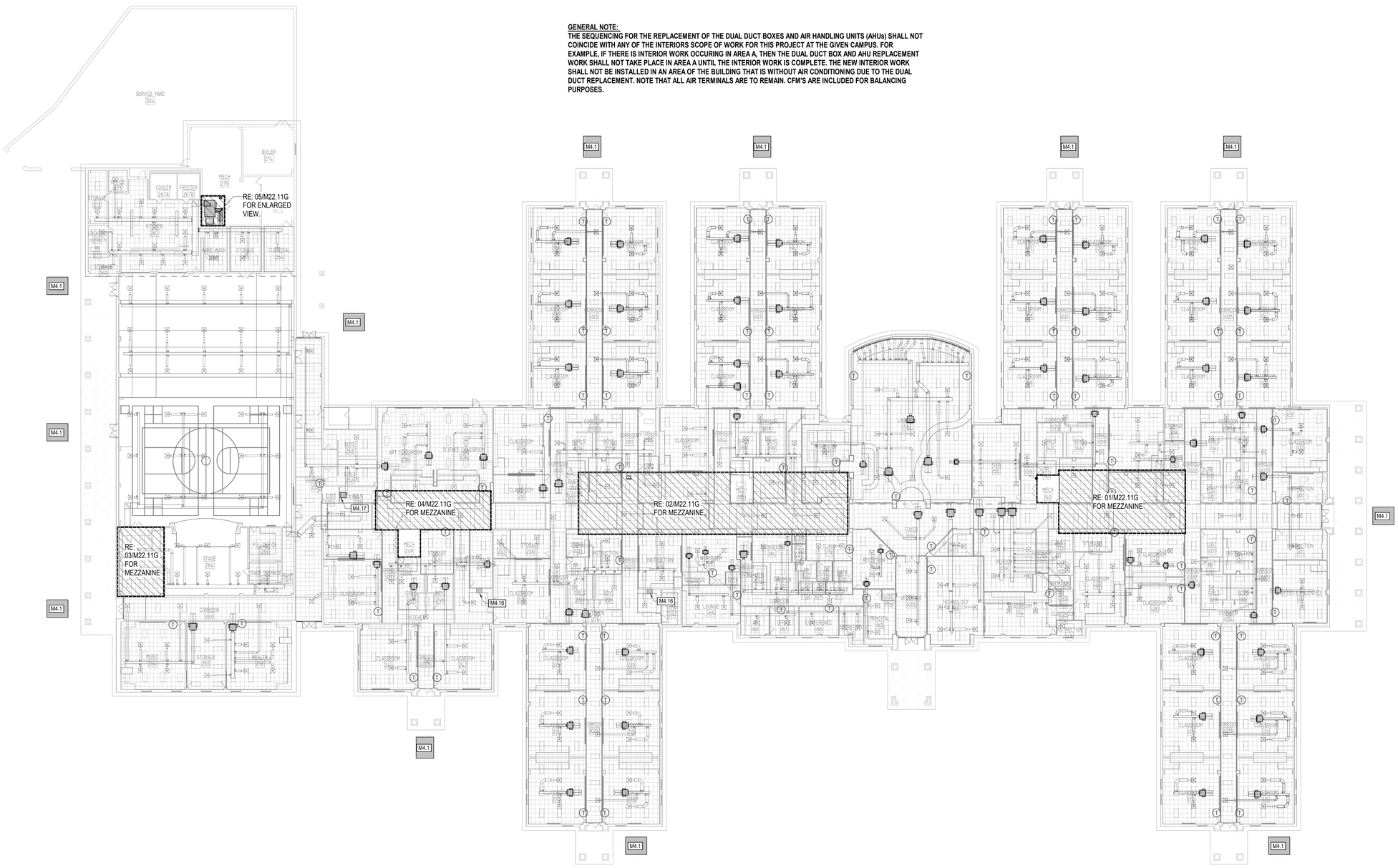

1 M22.11 **COMPOSITE MECHANICAL PLAN - LEVEL ONE**
1" = 20'-0"

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LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - COMPOSITE MECHANICAL PLAN

SHEET NO.
M22.11

CCISD Priority Repairs - FAPE GOFE ROBE

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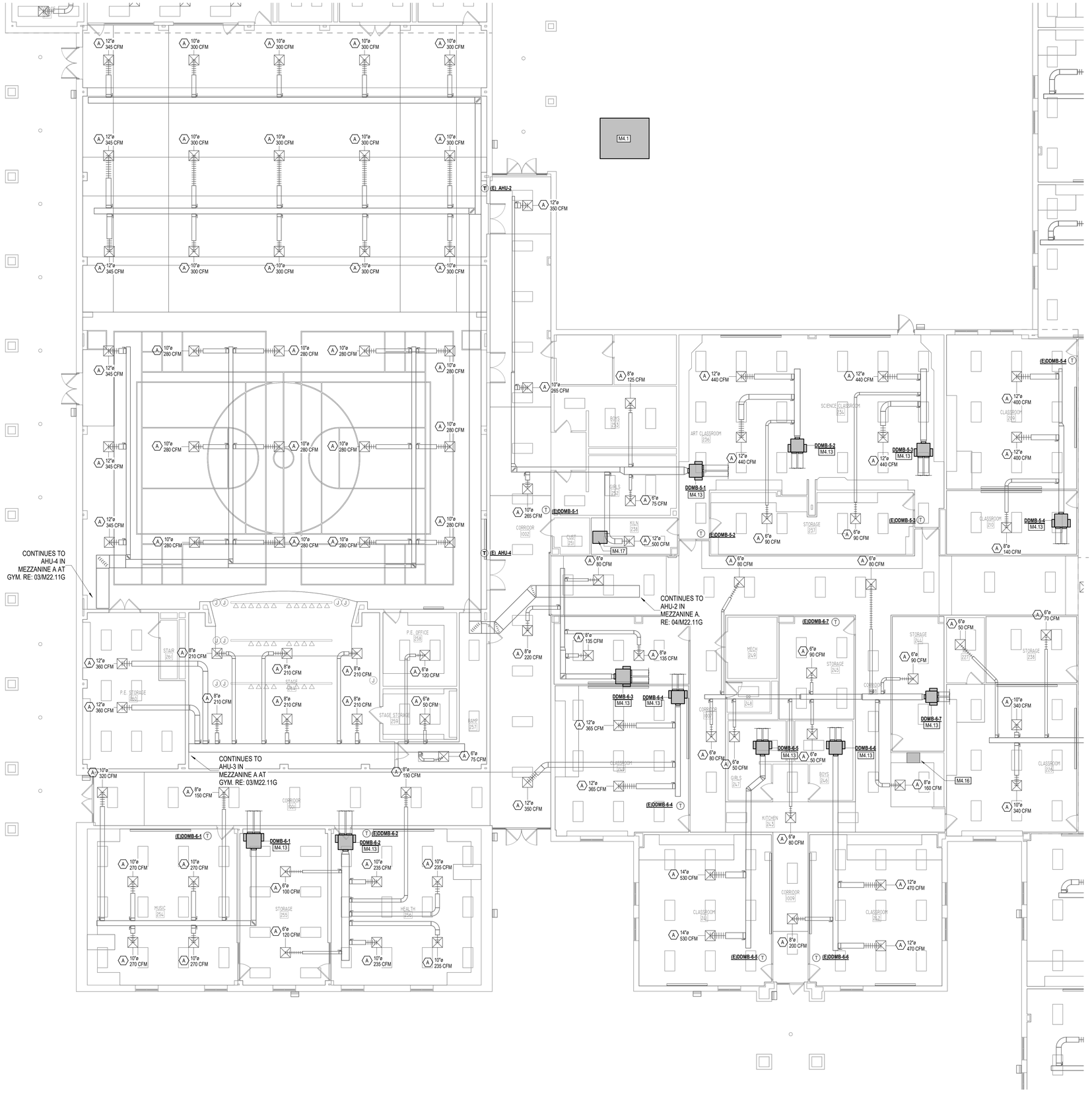

1 M22.11A **MECHANICAL PLAN - LEVEL ONE - UNIT A**
1/8" = 1'-0"

MECHANICAL KEYED NOTES

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11/4/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

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Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
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PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL PLAN - AREA A

SHEET NO.
M22.11A

CCISD Priority Repairs - FAPE GOFE ROBE

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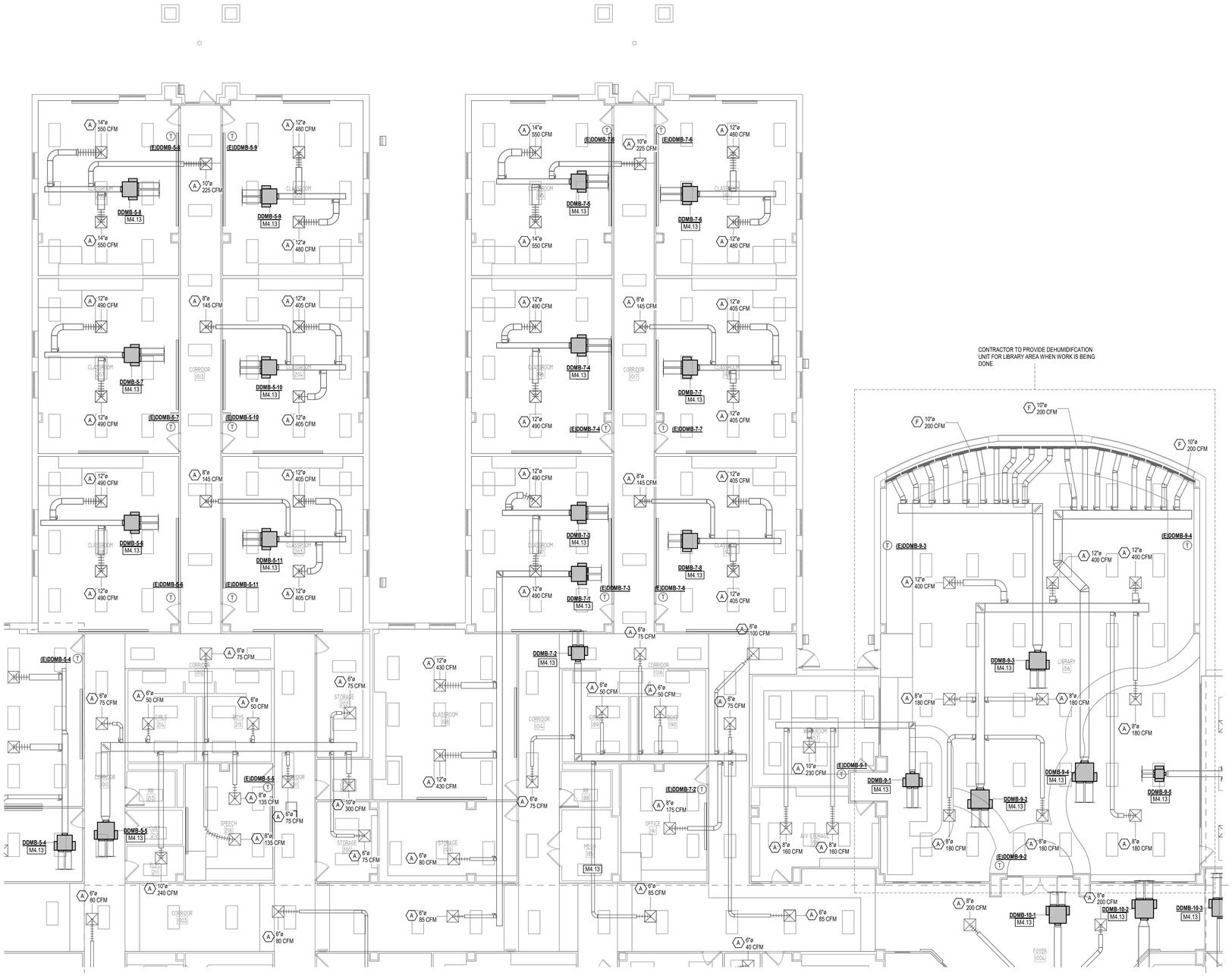

☐ MECHANICAL KEYED NOTES

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1 MECHANICAL PLAN - LEVEL ONE - UNIT B
M22.11B
1/8" = 1'-0"

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11/14/24

ISSUED: 11/14/2024

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DBR Project # 240244

EK	RM/TD	LB/MS	TN/JL	LG/SS

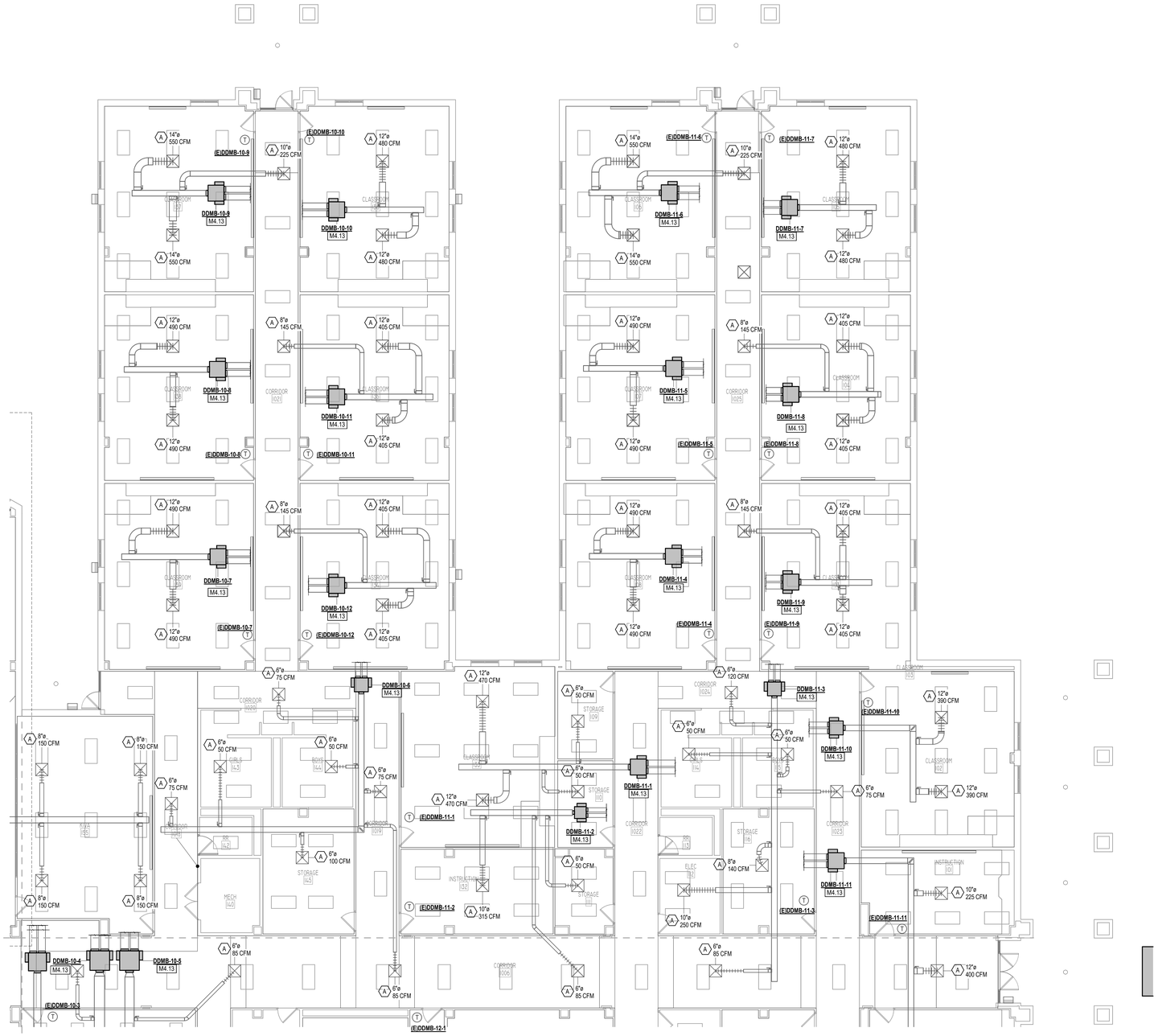
Director
Approver
Designer
Designer
Proj. Arch.
DBR

Drawn By
DBR
Quality Control

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL PLAN - AREA B

SHEET NO.
M22.11B



1 M22.11C **MECHANICAL PLAN - LEVEL ONE - UNIT C**

1/8" = 1'-0"

MECHANICAL KEYED NOTES

M4.13 PROVIDE NEW DUAL DUCT MIXING BOXES BUILDING WIDE AT THE APPROXIMATE LOCATIONS SHOWN. CONNECT NEW DUAL DUCT MIXING BOX TO EXISTING DUCTWORK, THERMOSTAT, ETC. COORDINATE INSTALLATION OF DUAL DUCT MIXING BOXES WITH THE INTERIOR FINISHES AS SHOWN ON ARCHITECTURAL SHEETS. ENSURE TIMING OF INSTALLATION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES. RE: 01/M25.02.

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11/14/24

ISSUED: 11/14/2024

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DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL PLAN - AREA C

SHEET NO.
M22.11C

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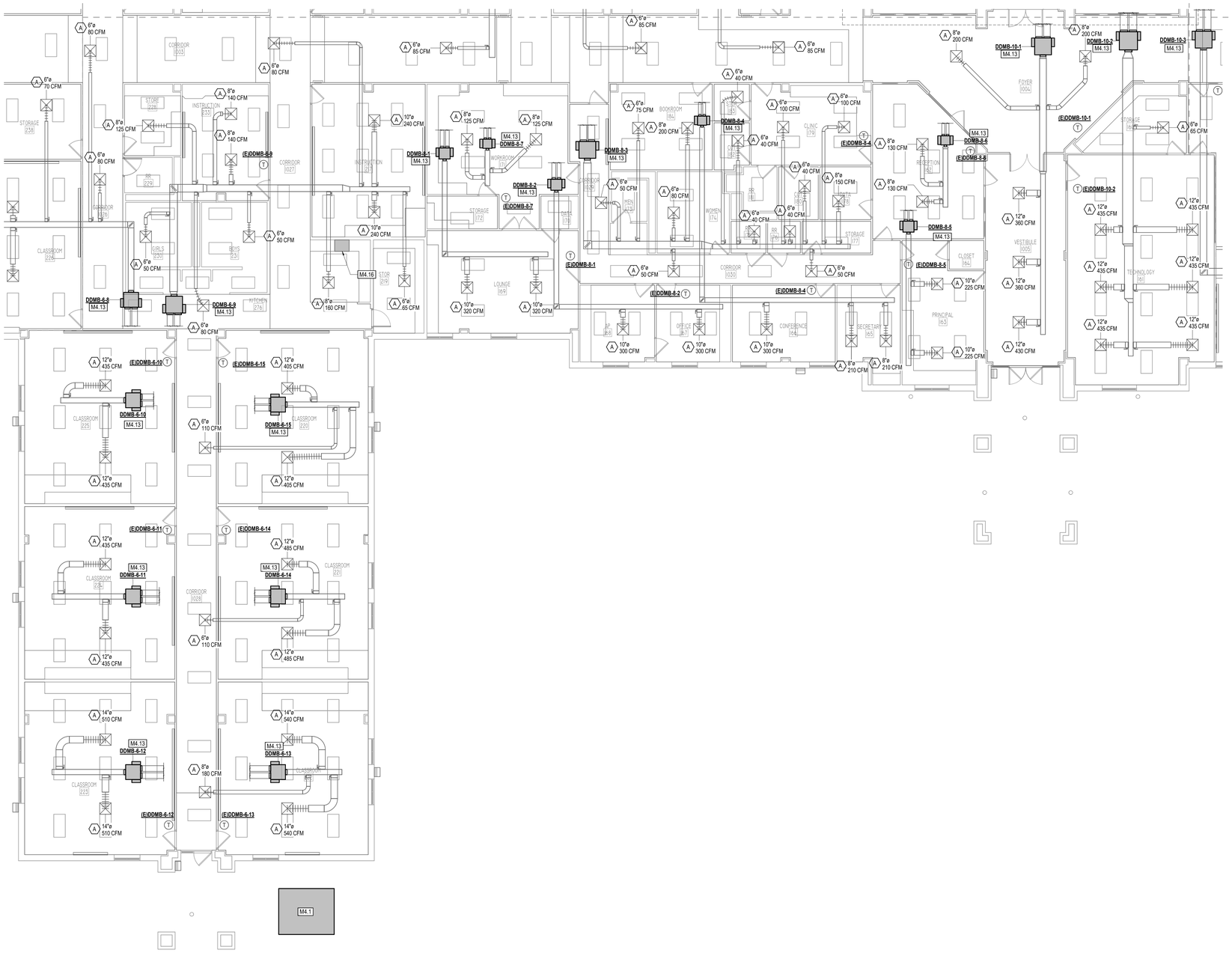
DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS



MECHANICAL KEYED NOTES

M4.1 APPROXIMATE LOCATION OF OFCI TEMPORARY AC UNIT. UNIT SHALL BE 35 TON UNIT. CONTRACTOR TO PROVIDE FLEXIBLE CONNECTION AND MEANS TO SEAL THE BUILDING ONCE CONNECTION TO SPACE IS MADE.

M4.13 PROVIDE NEW DUAL DUCT MIXING BOXES BUILDING WIDE AT THE APPROXIMATE LOCATIONS SHOWN. CONNECT NEW DUAL DUCT MIXING BOX TO EXISTING DUCTWORK, THERMOSTAT, ETC. COORDINATE INSTALLATION OF DUAL DUCT MIXING BOXES WITH THE INTERIOR FINISHES AS SHOWN ON ARCHITECTURAL SHEETS. ENSURE TIMING OF INSTALLATION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES. RE: 01M25.02.

M4.16 INSTALL NEW GUARDIAN III ANSUL SYSTEM WITHIN EXISTING HOOD SYSTEM AT THE APPROXIMATE LOCATION SHOWN PROVIDE NEW GUARDIAN 3 HOOD AT THE APPROXIMATE LOCATION SHOWN. INSTALL HANGERS, SUPPORTS, CONDUIT AS NECESSARY. COORDINATE INSTALLATION WITH ELECTRICAL AND INTERIOR FINISHES AS SHOWN ON PLANS. ENSURE TIMING OF INSTALLATION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES.

GENERAL NOTE:
THE SEQUENCING FOR THE REPLACEMENT OF THE DUAL DUCT BOXES AND AIR HANDLING UNITS (AHUs) SHALL NOT COINCIDE WITH ANY OF THE INTERIORS SCOPE OF WORK FOR THIS PROJECT AT THE GIVEN CAMPUS. FOR EXAMPLE, IF THERE IS INTERIOR WORK OCCURING IN AREA A, THEN THE DUAL DUCT BOX AND AHU REPLACEMENT WORK SHALL NOT TAKE PLACE IN AREA A UNTIL THE INTERIOR WORK IS COMPLETE. THE NEW INTERIOR WORK SHALL NOT BE INSTALLED IN AN AREA OF THE BUILDING THAT IS WITHOUT AIR CONDITIONING DUE TO THE DUAL DUCT REPLACEMENT. NOTE THAT ALL AIR TERMINALS ARE TO REMAIN. CFM'S ARE INCLUDED FOR BALANCING PURPOSES.

1 M22.11D **MECHANICAL PLAN - LEVEL ONE - UNIT D**
1/8" = 1'-0"

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/4/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL PLAN - AREA D

SHEET NO.
M22.11D

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DBR Project # 240244
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MECHANICAL KEYED NOTES

M4.1 APPROXIMATE LOCATION OF OFCI TEMPORARY AC UNIT. UNIT SHALL BE 35 TON UNIT. CONTRACTOR TO PROVIDE FLEXIBLE CONNECTION AND MEANS TO SEAL THE BUILDING ONCE CONNECTION TO SPACE IS MADE.

M4.13 PROVIDE NEW DUAL DUCT MIXING BOXES BUILDING WIDE AT THE APPROXIMATE LOCATIONS SHOWN. CONNECT NEW DUAL DUCT MIXING BOX TO EXISTING DUCTWORK, THERMOSTAT, ETC. COORDINATE INSTALLATION OF DUAL DUCT MIXING BOXES WITH THE INTERIOR FINISHES AS SHOWN ON ARCHITECTURAL SHEETS. ENSURE TIMING OF INSTALLATION ALIGNS TO MINIMIZE IMPACT ON OTHER TRADES. RE: 01M25.02.

GENERAL NOTE:
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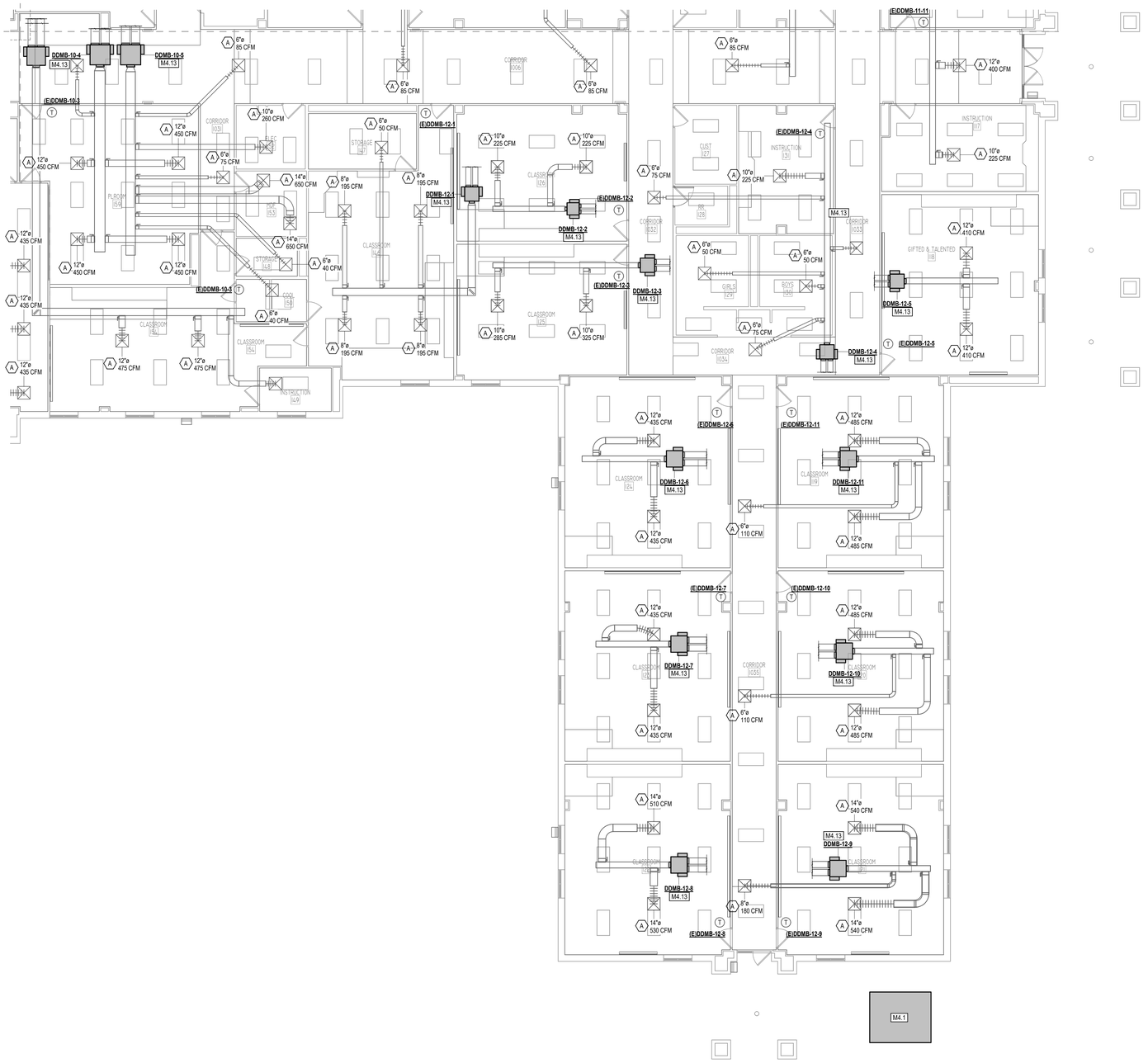

1 M22.11E **MECHANICAL PLAN - LEVEL ONE - UNIT E**
1/8" = 1'-0"

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CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

STATE OF TEXAS
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PROFESSIONAL ENGINEER
11/4/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL PLAN - AREA E

SHEET NO.
M22.11E

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TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS

GENERAL NOTE:
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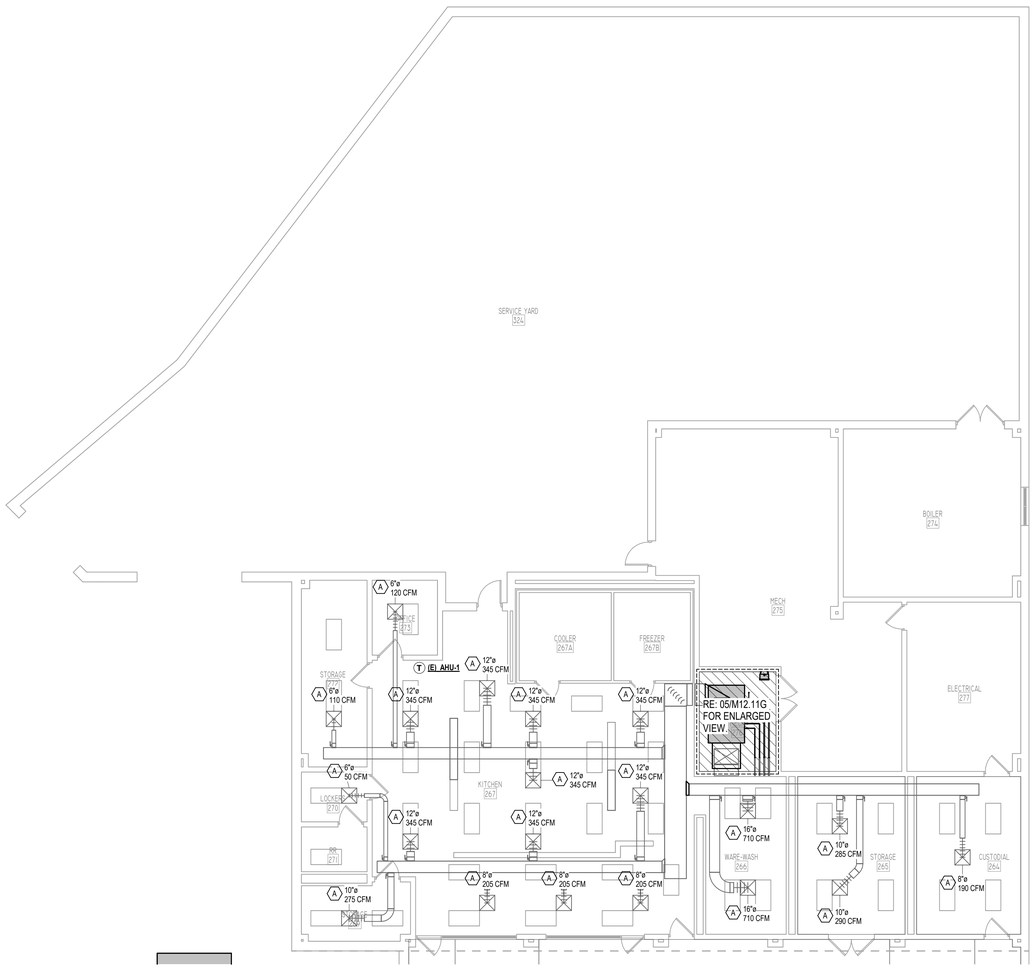

1 M22.11F **MECHANICAL PLAN - LEVEL ONE - UNIT F**
1/8" = 1'-0"

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KEY PLAN

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11/14/24

ISSUED: 11/14/2024

REVISIONS

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Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL PLAN - AREA F

SHEET NO.
M22.11F

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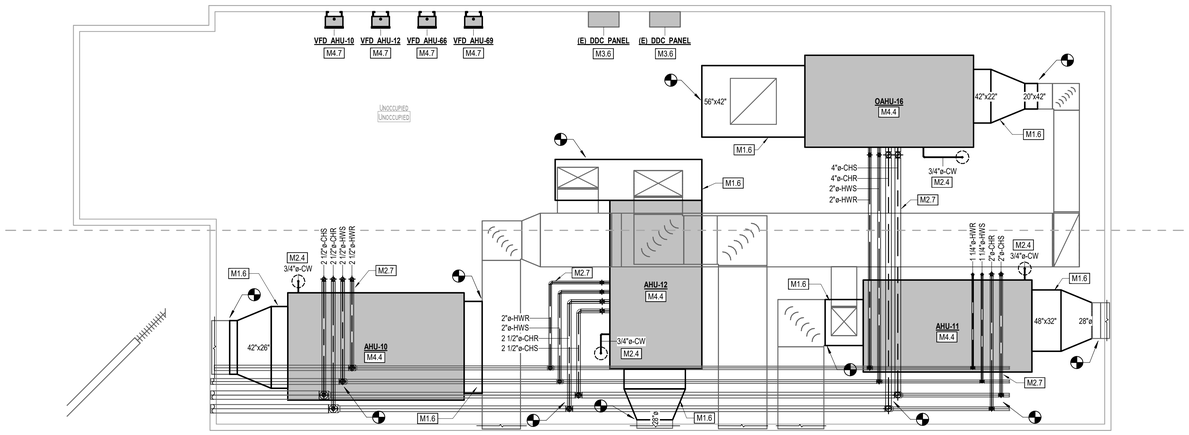
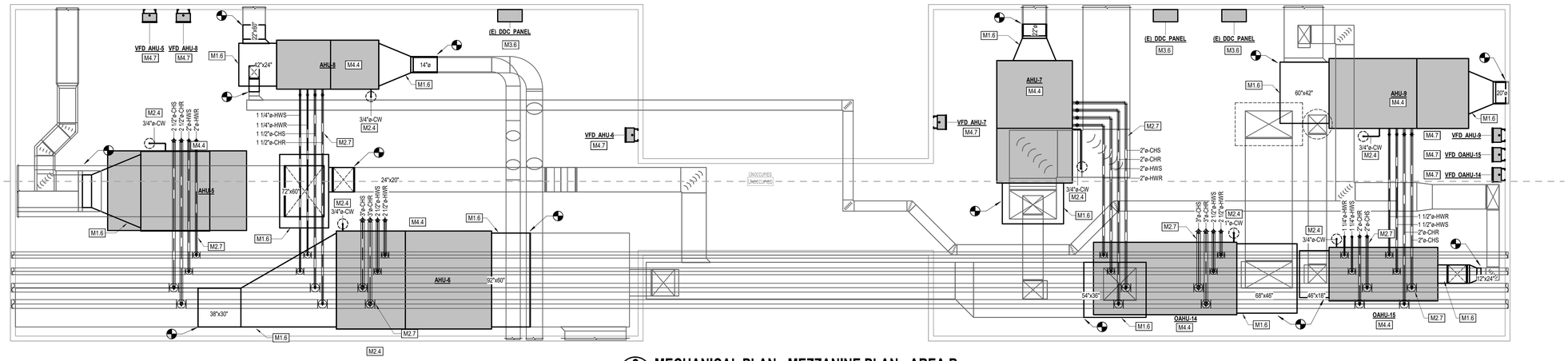
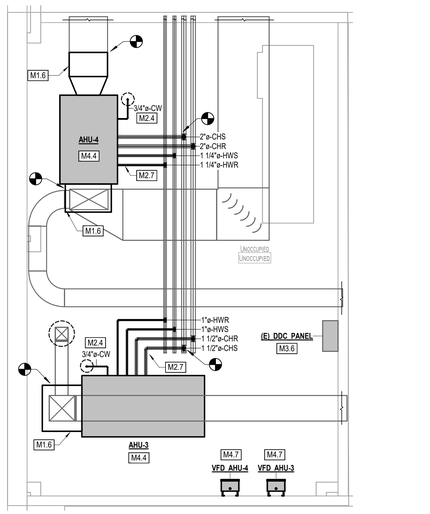
DBR Project # 240244
EK | RM/TD | LB/MS | TN/JL | LG/SS



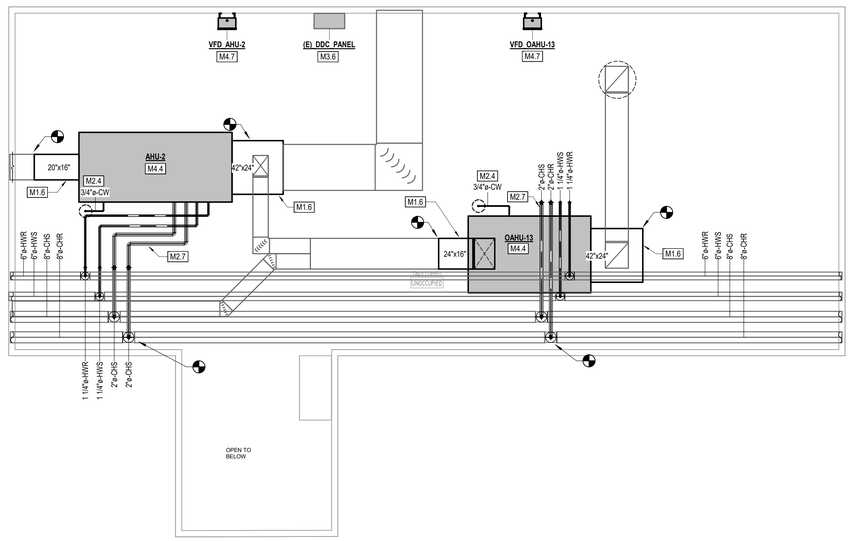
1 M22.11G **MECHANICAL PLAN - MEZZANINE PLAN - AREA C**
1/4" = 1'-0"



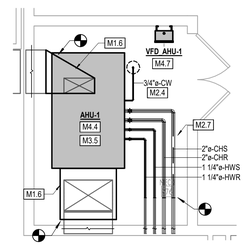
2 M22.11G **MECHANICAL PLAN - MEZZANINE PLAN - AREA B**
1/4" = 1'-0"



3 M22.11G **MECHANICAL PLAN - MEZZANINE PLAN - AREA A AT GYM**
1/4" = 1'-0"



4 M22.11G **MECHANICAL PLAN - MEZZANINE PLAN - AREA A**
1/4" = 1'-0"



5 M22.11G **MECHANICAL PLAN - LEVEL ONE - AREA F**
1/4" = 1'-0"

MECHANICAL KEYED NOTES

M1.6 REWORK AS NECESSARY TO RECONNECT UNIT TO EXISTING DUCT. PROVIDE ALL NECESSARY HANGERS, INSULATION, ETC. REQUIRED FOR PROPER INSTALLATION.

M2.4 ROUTE CONDENSATE DRAIN LINE FROM AHU TO NEAREST FLOOR DRAIN. SIZE AS INDICATED. FIELD COORDINATE EXACT ROUTING. PROVIDE PIPE ROOF SUPPORTS AT A MAXIMUM OF 10' O.C.

M2.7 RECONNECT PIPES TO NEW AHU. SIZE PER MANUFACTURERS RECOMMENDATIONS. PROVIDE MANUAL ISOLATION VALVES, HANGERS, INSULATION, ACTUATORS, ETC. FOR PROPER OPERATION.

M3.5 PROVIDE DDC CONTROLS PANEL. COORDINATE EXACT LOCATION WITH CONTROLS AND ELECTRICAL CONTRACTORS.

M3.6 PROVIDE WIRED CONTROLLER FOR DDMB AND AHU'S. CONTROLLER SHALL BE PROVIDED BY CONTROLS MANUFACTURER. INSTALL IN EXISTING CONTROLLERS PLACE AT RESPECTIVE DDC PANELS. NETWORK AREA CONTROLLERS TO BE REPLACED WITH NEW CONTROLLER MEETING 100 MBPS AS OUTLINED IN SPEC SECTION 23 09 63 - 2.3. EXISTING RACK TO BE RETURNED TO THE DISTRICT FOR PARTS.

M4.4 PROVIDE AIR HANDLING UNIT AT APPROXIMATE LOCATION SHOWN. PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER. MODIFY EXISTING CONCRETE PAD AS NEEDED TO ACCOMMODATE FOR NEW UNIT SIZE. PROVIDE FIELD FABRICATED MIXING BOX PLENUM ON AHU WITH RETURN AIR AND OUTSIDE AIR CONNECTIONS AS SHOWN. PLENUM BOX SHALL BE THE SAME HEIGHT AND WIDTH AS THE AHU RETURN AIR CONNECTION AND A MINIMUM OF 40" DEEP.

M4.7 PROVIDE VARIABLE FREQUENCY DRIVE AT APPROXIMATE LOCATION SHOWN. COORDINATE FINAL LOCATION WITH ELECTRICAL AND CONTROLS CONTRACTORS.

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11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL PLAN - ENLARGED VIEWS

SHEET NO.
M22.11G

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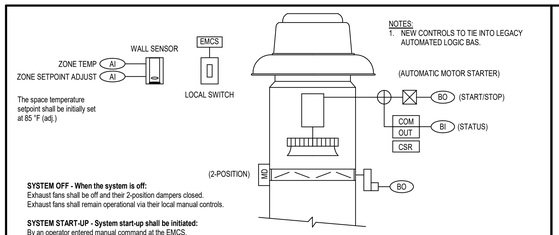


SYSTEM OFF - When the system is off:
Exhaust fans shall be off and their 2-position dampers closed.
Exhaust fans shall remain operational via their local manual controls.

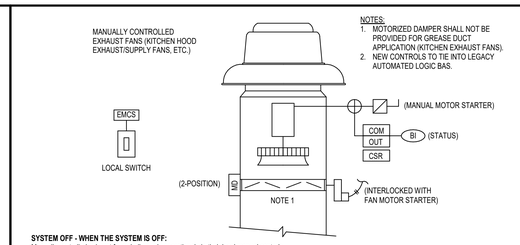
SYSTEM START-UP - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on the associated space temperature setpoint.
By an operator command at local manual control.

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 and run off the BAS system:
Fan Failure: Commanded on, but the status is off.
Fan in Hand: Commanded off, but the status is on.

4 **Automatically Controlled Temperature Based Exhaust Fans with Local Override Switch - Control Schematic and Sequence of Operations**
NOT TO SCALE



SYSTEM OFF - WHEN THE SYSTEM IS OFF:
Manually controlled exhaust fans shall remain operational via their local manual controls.

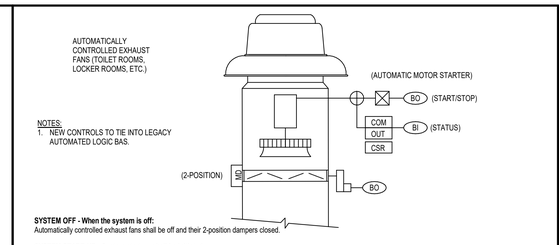
SYSTEM START-UP - SYSTEM START-UP SHALL BE INITIATED:
By an operator command at local manual control.

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 and run off the BAS system:
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.).

3 **Manually Controlled Exhaust/Supply Fans - Control Schematic and Sequence of Operations**
NOT TO SCALE



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.

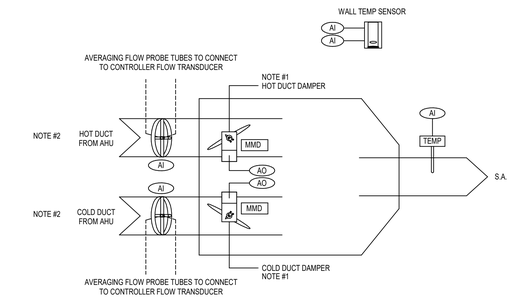
Fan Status:
The controller shall monitor the fan status.

Alarms shall be provided as follows and run off the BAS system:
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/Supply Fans - Control Schematic and Sequence of Operations**
NOT TO SCALE

AI	ANALOG INPUT	S	WALL SENSOR
AO	ANALOG OUTPUT	T	THERMOSTAT
DIBI	DIGITAL/BINARY INPUT	CO2	CARBON DIOXIDE SENSOR
DO/BO	DIGITAL/BINARY OUTPUT	SP	SET POINT
MD	ON-OFF MOTORIZED DAMPER	S/A	SUPPLY AIR
MMD	MODULATING TYPE MOTORIZED DAMPER	R/A	RETURN AIR
AFMS	AIR FLOW MEASURING STATION	O/A	OUTSIDE AIR
MCV	CONTROL VALVE MODULATING TYPE	HC	HEATING COIL
VFD	VARIABLE FREQUENCY DRIVE	CC	COOLING COIL
CSR	CURRENT SENSING RELAY	DX	DIRECT EXPANSION COOLING COIL
FRZ	FREEZESTAT	PICCV	PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE
HSL	HIGH STATIC LIMIT	AFC	AIRFLOW CROSS
SPT	STATIC PRESSURE TRANSMITTER	DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSDUCER		
FM	FLOW METER		
FS	FLOW SWITCH		
DAT	DISCHARGE AIR TEMPERATURE SENSOR		

1 **CONTROL SCHEMATIC LEGEND**
NOT TO SCALE



NOTES:
1. TERMINAL UNIT CONTROLLERS AND DAMPER ACTUATORS SHALL BE SHIPPED TO THE TERMINAL UNIT MANUFACTURER FOR MOUNTING AND WIRING.
2. REFER TO MECHANICAL PLANS FOR DDMB HOT/COLD DUCT ORIENTATION.
3. NEW CONTROLS TO TIE INTO LEGACY AUTOMATED LOGIC BAS.

System Off - When the system is off:
The hot duct damper shall be closed.
The cold duct damper shall be closed.
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:
When the space temperature is above the deadband, the hot duct damper shall be closed and the cold duct damper shall be modulated between the box minimum airflow rate and the maximum cooling airflow rate to maintain space temperature within +/- 0.5 °F of the active Cooling Setpoint. When the space temperature is within the deadband, the hot duct damper shall be closed and the cold duct damper shall be modulated to maintain the box minimum airflow rate. When the space temperature falls below the deadband, the hot duct damper shall be modulated between zero and the maximum heating airflow rate to maintain space temperature within +/- 0.5 °F of the active Heating Setpoint. During this time, the cold duct damper shall be modulated as required to ensure the combined airflow rate delivered by the box does not fall below the box minimum airflow rate. Once the hot duct damper airflow rate exceeds the box minimum airflow, the cold duct damper shall be closed.

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 66 °F (adjustable).
The Standby Cooling Setpoint shall be set initially at 78 °F (adjustable).
The box minimum airflow rate and the maximum cooling and heating airflow rates shall be set at the values given in the Mechanical Drawings.

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.

5 **Dual Duct Mixing Box - Control Schematic and Sequence of Operations**
NOT TO SCALE

GENERAL NOTE: TIE ALL EQUPIMENT AND CONTROLS INTO LEGACY EXISTING ALC BAS SYSTEM.

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CCISD PROJECT NO:
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ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL CONTROL DIAGRAMS

SHEET NO.
M24.01

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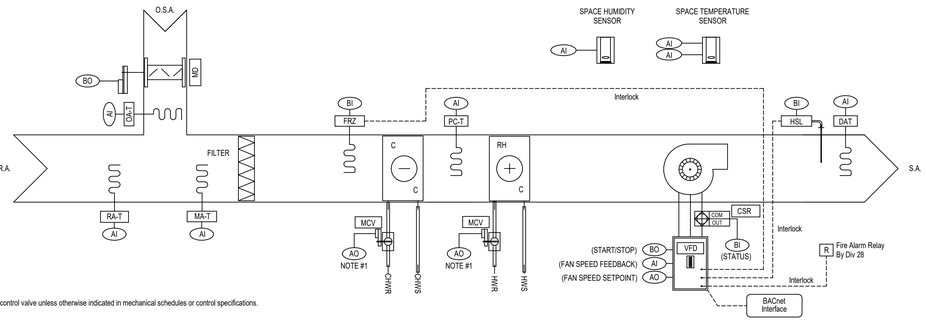


NOTES:
1. Provide 2-way automatic control valve unless otherwise indicated in mechanical schedules or control specifications.

System Off - When the system is off:
The outside air damper shall be closed.
The supply air fan shall be off.
The chilled water coil valve shall be closed.
The hot water coil valve(s) 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 Pre-Start Mode or Time of Day occupancy schedule.

Pre-Start Mode:
The system shall be enabled by an operator entered manual command at the EMCS or 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.

System Operation - When system start-up has been initiated:

The variable speed supply air fan shall start. Following a confirmation of fan start status, the supply fan shall initially be indexed to its minimum speed reference value. The speed of the fan shall not be adjusted by more than 20 Hz in any one-minute period.
OUTSIDE AIR DAMPER CONTROL: When the system is commanded to start, the EMCS shall open the outside air damper.
COOLING MODE: The EMCS shall modulate the chilled water control valve as required to maintain the active coil discharge air temperature setpoint. The EMCS shall modulate the supply fan VFD from its minimum setting to its maximum setting as required to maintain the active space temperature setpoint.
HEATING MODE: When the supply fan is operating at its minimum setting, the hot water re-heat control valve shall modulate to maintain the active space temperature setpoint. If the space temperature drops below its active setpoint and the unit discharge air temperature is at its active setpoint, then the EMCS shall modulate the supply fan VFD from its minimum setting to its maximum setting as required to maintain the active space temperature setpoint and the hot water re-heat control valve shall modulate to maintain the re-heat coil discharge air temperature setpoint.

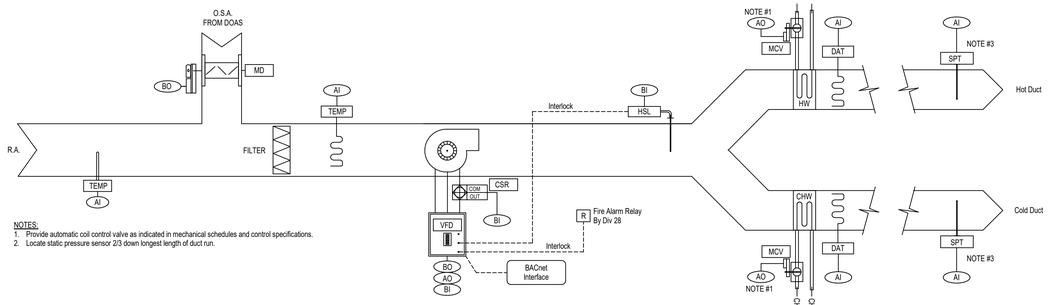
DE-HUMIDIFICATION MODE: When space humidity rises above its active setpoint and the space temperature is below its active setpoint, the EMCS shall modulate the supply fan VFD to its minimum setting and modulate the chilled water control valve to maintain the de-humidcation chilled water coil discharge air temperature setpoint. The EMCS shall modulate the hot water re-heat control valve to maintain the space temperature setpoint as required. The unit shall return to cooling mode when the space humidity setpoint has been satisfied for at least 10 minutes (adj).
FREEZE PROTECTION: When the outdoor air temperature drops below the freeze protection setpoint, the EMCS shall open the chilled water control valve(s) to 50% open (adj.) for water circulation through the coil. The control valve shall return to normal operating conditions when the ambient temperature is above the freeze protection setpoint for 10 minutes (adj.). Refer to the Chilled Water System Control Diagram for further information.

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 the 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 space temperature setpoint shall be set at 70°F (adj) with a low-limit alarm of 66°F (adj).
The occupied cooling space temperature setpoint shall be set at 75°F (adj) with a high-limit alarm of 79°F (adj).
The unoccupied heating space temperature setpoint shall be set at 55°F (adj) with a low-limit alarm of 51°F (adj).
The unoccupied cooling space temperature setpoint shall be set at 85°F (adj) with a high-limit alarm of 89°F (adj).
The chilled water coil discharge air temperature setpoint shall be set at 53°F (adj) with a low-limit alarm of 48°F (adj).
The de-humidification chilled water coil discharge air temperature setpoint shall be set at 50°F (adj) with a low-limit alarm of 45°F (adj).
The re-heat coil discharge air temperature setpoint shall be set at 95°F (adj) with a high-limit alarm of 105°F (adj).
The space humidity setpoint shall be set at 55% RH (adj) with a high-limit alarm of 60% RH (adj).
The outside air flowrate setpoint shall be set at the scheduled flowrate from the unit schedule on the mechanical drawings.
The supply duct static pressure high-limit setpoint shall be set at 2.0 in. w.c. (adj).
The freeze-stat low-limit trip setpoint shall be set at 37°F(adj).
The outdoor air temperature freeze protection setpoint shall be 37°F (adj).

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Time of Day schedule.
Automatically by the high-static pressure shut down.
Automatically by the unit freeze-stat shut down.
Automatically by a supply fan current sensor status failure.
Automatically by the auxiliary fire alarm relay when an alarm condition has been initiated.

System Alarms - The EMCS shall generate an alarm condition for each of the following:
If the space temperature is outside the active low or high-limit for 5 minutes (adj).
If the supply air temperature drops below the chilled water coil discharge air temperature low-limit for 5 minutes (adj).
If the supply air temperature rises above the heating coil discharge air temperature high-limit for 5 minutes (adj).
If the space humidity level exceeds its high-limit for more than 20 minutes (adj).
If the supply duct static pressure exceeds the high-limit setpoint.
If the unit freeze-stat trips.
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.

2 **Single Zone VAV AHU Chilled Water Cooling, Hot Water Heating, De-Humidification - Control Schematic and Sequence of Operations (AHU 1,2,3,& 4)**
NOT TO SCALE



NOTES:
1. Provide automatic coil control valve as indicated in mechanical schedules and control specifications.
2. Locate static pressure sensor 2/3 down longest length of duct run.

System Mode - The system shall be controlled by one of the following four modes:
UNOCCUPIED, PRE-START, OCCUPIED

UNOCCUPIED MODE:
The outside air damper shall be closed.
The unit supply fan shall be off.
The cooling coil valve shall be closed.
The heating coil valve shall be closed.
All control loops shall be disabled.

OCCUPIED MODE:

The system shall be enabled automatically by the EMCS based on the actual space occupancy. When the Time of Day schedule (TOD) is active, the system shall operate per the **System Operation** section, as detailed below.
Outside Air Damper Control: When the system is commanded to start, the EMCS shall open the outside air damper.

System Operation - When system start-up has been initiated:

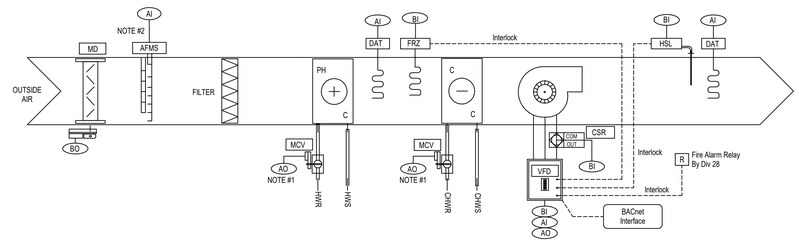
The variable speed supply fan shall start at its minimum speed. Following a confirmation of fan start status, the supply fan speed shall be modulated to maintain the supply air static pressure at setpoint. The controller shall utilize the lower of the two duct static pressure readings from the cold and hot ducts as the control reference for supply air static pressure. 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 supply air static pressure setpoint shall be reset up in defined increments at defined intervals until the 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 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.
Cold Deck Cooling Coil Valve - The cooling coil control valve shall be modulated to maintain the active cooling supply air temperature setpoint. The cooling supply air temperature setpoint shall be reset via the control algorithm below to optimize the energy usage.
Cooling Supply Air Temperature Reset - The cooling 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.
Hot Deck Heating Coil Valve - The heating coil control valve shall be modulated to maintain the active heating supply air temperature setpoint. The heating supply air temperature setpoint shall be reset via the control algorithm below to optimize the energy usage.
Heating Supply Air Temperature Reset - The heating supply air temperature setpoint shall be reset based on the outside air temperature, according to the defined reset schedule detailed in the **System Setpoint** section.

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Time of Day schedule.
Automatically by the high-static pressure shut down.
Automatically by a supply fan current sensor status failure.
Automatically by the auxiliary fire alarm relay when an alarm condition has been initiated.

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 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 1.25 inches w.c. (adj) and shall have reset limits of 0.20 to 2.00 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 damper position setpoint shall be 90% open. (adj)
The time interval for terminal unit damper position shall be set at 15 minutes. (adj)
The cooling supply air temperature setpoint shall be set initially to 54 °F. (adj)
The cooling supply air temperature setpoint shall be reset to 53 °F (adj) when the return air temperature is at 78 °F. (adj)
The cooling supply air temperature setpoint shall be reset to 57 °F (adj) when the return air temperature is at 70 °F. (adj)
The heating supply air temperature setpoint shall be set initially to 95 °F (adj)
The heating supply air temperature setpoint shall be reset to 95 °F (adj) when the outside air temperature is at 35 °F (adj) or below.
The heating supply air temperature setpoint shall be reset to 70 °F (adj) when the outside air temperature is at 70 °F (adj) or above.
The outside air flowrate setpoint shall be set at the scheduled flowrate from the unit schedule on the mechanical drawings.
The supply duct static pressure high-limit setpoint shall be set at 2.5 in. wc. (adj).

System Alarms - The EMCS shall generate an alarm if:
If the supply duct static pressure exceeds the high-limit setpoint.
If the cooling supply air temperature is outside the limits, which shall be set at +/- 5 °F around setpoint.
If the heating supply air temperature is outside the limits, which shall be set at +/- 5 °F around setpoint.
If the current sensor relay indicates a supply fan failure status.
All alarms shall be inhibited when the supply fan is not operating.

1 **Dual Duct VAV Air Handling Unit - Control Schematic and Sequence of Operations (AHU 5,6,7,8,9,10,11,&12)**
NOT TO SCALE



NOTES:
1. Provide coil control valve as indicated in mechanical schedules and control specifications.

SYSTEM OFF - WHEN THE SYSTEM IS OFF:
The outside air damper shall be closed.
The unit supply fan shall be off.
The cooling coil valve shall be closed.
The preheating coil valve shall be closed.
All 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 Pre-Start Mode or Time of Day occupancy schedule.

PRE-START MODE:
The system shall be enabled by an operator entered manual command at the EMCS or automatically by the EMCS based on the TIme of Day (TOD) occupancy schedule. Once enabled, the system shall operate per the **System Operation** section, as detailed below.

OCCUPIED MODE:
The system shall be enabled automatically by the EMCS based whenever any of the associated AHU's it serves has an active call for ventilation air. When the Time of Day schedule (TOD) is active, the system shall 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 at its minimum speed. Following a conformation 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 chilled water coil control valve shall be modulated to maintain the supply air temperature at setpoint. The control shall be active when the outside air temperature is above 55 °F. (adj)

The hot water pre-heat coil control valve shall be modulated to maintain the pre-heat coil discharge air temperature at setpoint. The control shall be active when the outside air temperature is below 53 °F. (adj)

Freeze Protection: When the outdoor air temperature drops below the freeze protection setpoint, the EMCS shall open the chilled water control valve(s) to 50% open (adj.) for water circulation through the coil. The control valve shall return to normal operating conditions when the ambient temperature is above the freeze protection setpoint for 10 minutes (adj.). Refer to the Chilled Water System Control Diagram for further information.

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Time of Day schedule.
Automatically by the high-static pressure shut down.
Automatically by the unit freeze-stat shut down.
Automatically by a supply fan current sensor status failure.
Automatically by the auxiliary fire alarm relay when an alarm condition has been initiated.

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 maximum supply airflow value from the unit schedule on the Mechanical Drawings.
The minimum speed reference value shall be the VFD speed required to obtain the design minimum supply airflow value from the unit schedule on the Mechanical Drawings.
The supply air static pressure setpoint shall be 1.0 inches w.c. (adj)
The supply air temperature setpoint shall be set initially at 55 °F. (adj)
The pre-heat setpoint shall be set to 53 °F (adj)
The supply duct static pressure high-limit setpoint shall be set at 2.0 in. wc. (adj).
The freeze-stat low-limit trip setpoint shall be set at 37°F(adj).
The outdoor air temperature freeze protection setpoint shall be 37°F (adj).

System Alarms - The EMCS shall generate an alarm if:
If the supply duct static pressure exceeds the high-limit setpoint.
If the supply air temperature is outside the limits, which shall be set at +/- 5 °F around setpoint.
If the preheat air temperature is below the freezestat trip point, initially set at 37 °F. (adj)
If the current sensor relay indicates a supply fan failure status.
All alarms shall be inhibited when the supply fan is not operating. The alarms, except the fan failure alarm, shall remain inhibited following startup of the unit for 2 minutes.

3 **100 Percent Outdoor Air VAV Air Handling Unit - Control Schematic and Sequence of Operations (AHU 13,14,15,&16)**
NOT TO SCALE

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL CONTROL DIAGRAMS

SHEET NO.
M24.02

DBR
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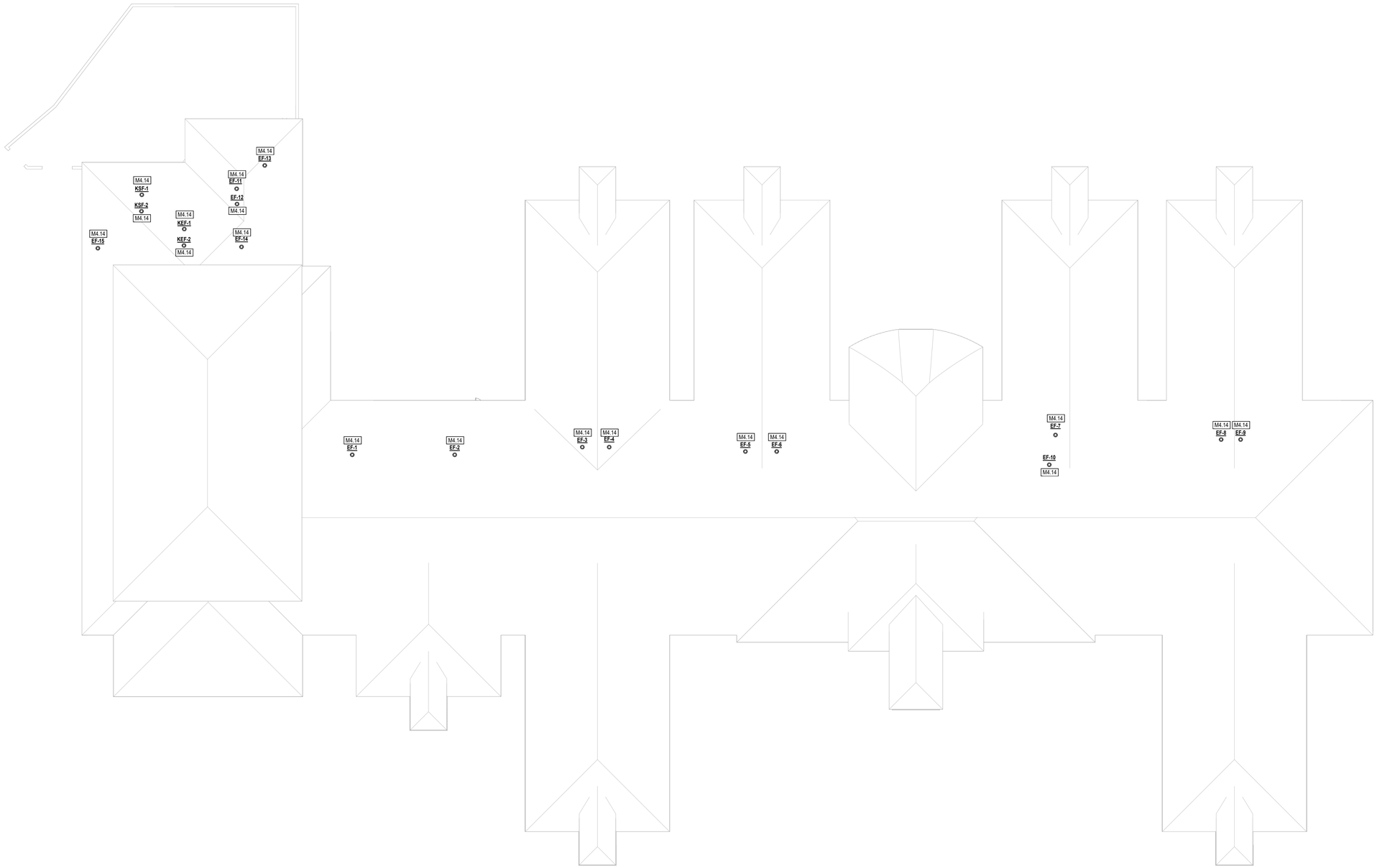
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK | RM/TD | LB/MS | TN/JL | LG/SS

GENERAL NOTE:
EXISTING ROOF IS UNDER WARRANTY, MECHANICAL SUB CONTRACTOR TO TAKE LIABILITY FOR ANY AND ALL DAMAGE TO ROOF WHILE FANS ARE BEING REPLACED. ANY AND ALL WORK ON AND AROUND THE ROOF SHALL BE DONE SUCH THAT THE MANUFACTURERS ROOFING WARRANTY IS MAINTAINED.

MECHANICAL KEYED NOTES

M4.14 PROVIDE ROOF MOUNTED FAN AT APPROXIMATE LOCATION SHOWN. FAN TO BE INSTALLED IN SAME PLACE THAT EXISTING FAN WAS. PROVIDE FAN WITH ROOF CURB, ACCESSORIES, ETC. AS NECESSARY FOR REWORKING. RE-PAINT TO MATCH EXISTING ROOF COLOR. RE: 03/M25.02.



1 M25.00 **MECHANICAL ROOF PLAN**
1" = 20'-0"

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL ROOF PLAN

SHEET NO.
M25.00

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https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS

AIR HANDLING UNIT SCHEDULE

	MARK	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6	AHU-7	AHU-8	AHU-9	AHU-10	AHU-11	AHU-12	OAHU-13	OAHU-14	OAHU-15	OAHU-16
	SERVES	KITCHEN	CAFETERIA	STAGE	GYMNASIUM	CLASSROOMS	CLASSROOMS	CLASSROOMS	ADMIN.	LIBRARY	CLASSROOMS	CLASSROOMS	CLASSROOMS	AHU-2,4	AHU-5,6,7	AHU-8,9	AHU-10,11,12
	TYPE	HDT-SZ	HDT-SZ	HDT-SZ	HDT-SZ	HBT-DD	HBT-DD	HBT-DD	HBT-DD	HBT-DD	HBT-DD	HBT-DD	HBT-DD	HDT	HDT	HDT	HDT
	UNIT CONFIGURATION	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS	USE PREVIOUS
	DISCHARGE	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.	FROM SERIAL NO.
FAN	DESIGN SUPPLY AIR (CFM)	6,115	4,635	2,225	4,400	11,900	15,700	7,950	5,080	7,075	15,365	10,075	9,000	2,250	11,295	1,885	10,265
FAN	DESIGN OUTDOOR AIR (CFM)	540	1,125	200	1,125	3,540	5,115	2,640	970	1,245	3,585	3,180	3,500	2,250	11,295	1,885	10,265
FAN	EXT. S.P. (IN. W.G.)	0.875	0.875	0.875	1.0	1.75	2.25	1.625	1.625	1.625	1.625	1.625	1.625	0.75	0.75	0.75	0.75
FAN	FAN MOTOR HORSEPOWER (HP / # OF FANS)	5 / 1	3 / 1	2 / 1	3 / 1	10 / 1	7.5 / 2	7.5 / 1	5 / 1	7.5 / 1	7.5 / 2	10 / 1	10 / 1	3 / 1	10 / 1	1.5 / 1	10 / 1
FAN	VOLTS/PHASE/HERTZ	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60
FAN	MAX. FAN RPM	2,064	1,760	3,305	1,852	1,780	2,037	2,004	1,955	1,844	1,924	1,629	2,159	3,435	1,645	3,407	1,587
FAN	FULL LOAD AMPS (FLA)	6.70	4.20	2.90	4.20	12.50	19.60	9.80	6.70	9.80	21.00	12.50	12.50	4.20	12.50	2.30	12.50
FAN	MCA/MOP	8.38 / 15	5.25 / 15	3.63 / 15	5.25 / 15	15.63 / 25	25 / 45	12.25 / 20	8.38 / 15	12.25 / 20	26.25 / 45	15.63 / 25	15.63 / 25	5.25 / 15	15.63 / 25	2.88 / 15	15.63 / 25
COOLING COIL	MAX. COIL FACE VELOCITY (FPM)	500	500	500	500	500	500	500	500	500	500	500	500	475	475	475	475
COOLING COIL	MINIMUM COIL ROWS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
COOLING COIL	MAX. FINS PER INCH	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
COOLING COIL	COIL CFM	6,115	4,635	2,225	4,400	11,900	15,700	7,950	5,080	7,075	15,365	10,075	9,000	2,250	11,295	1,885	10,265
COOLING COIL	EAT DB/WB (°F)	79.5/64.6	69.9/60.1	83.3/65.8	68.9/59.8	69.5/59.9	77.0 / 62.6	69.1/59.8	71.7/60.8	72.0/60.9	76.1/62.3	75.9/62.2	75.1/61.9	97 / 77	97 / 77	97 / 77	97 / 77
COOLING COIL	LAT DB/WB (°F)	55	53	54.86	53	53	53.09	53	53	52.3	53.6	52.98	52.36	52.73	52.96	52.86	53.05
COOLING COIL	TOTAL COOLING CAPACITY (MBH)	194.6	98.41	80.8	89.24	249.74	466.1	162.45	120.81	186.5	418	287	258.9	187.3	939.4	157.8	850.6
COOLING COIL	SENSIBLE COOLING CAPACITY (MBH)	164.7	86.0	69.6	76.8	215.5	412.1	140.5	104.3	153.1	379.5	253.2	224.6	110.7	552.6	92.4	501.1
COOLING COIL	EWT/LWT (°F)	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56	42 / 56
COOLING COIL	COIL WATER FLOW (GPM)	28.0	14.0	11.5	19.0	35.6	66.4	23.1	14.0	27.0	60.0	41.0	37.0	27.0	134.0	22.5	121.0
COOLING COIL	CHW BRANCH PIPING SIZE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOLING COIL	MAX. WATER P.D. (FT. HD.)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
HEATING COIL	MAX. COIL FACE VELOCITY (FPM)	700	700	700	700	800	800	800	800	800	800	800	800	700	700	700	700
HEATING COIL	MINIMUM COIL ROWS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HEATING COIL	MAX. FINS PER INCH	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HEATING COIL	COIL CFM	6,115	4,635	2,225	4,400	8,000	10,990	5,565	3,560	4,950	10,755	7,050	6,300	2,250	11,295	1,885	10,265
HEATING COIL	EAT (°F)	63.0	64.0	63.0	63.0	62.0	62.0	62.0	64.0	64.0	63.0	62.0	61.0	20.0	20.0	20.0	20.0
HEATING COIL	EWT/LWT (°F)	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160	180 / 160
HEATING COIL	HEATING CAPACITY (MBH)	162.5	117.0	50.1	115.1	300.0	390.0	200.0	116.3	160.0	370.0	250.0	240.0	75.0	449.2	72.1	389.4
HEATING COIL	COIL WATER FLOW (GPM)	16.3	11.7	5.0	11.5	30.0	39.0	20.0	11.6	16.0	37.0	25.0	24.0	7.5	44.9	7.2	38.9
HEATING COIL	HW BRANCH PIPING SIZE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HEATING COIL	MAX. WATER P.D. (FT. HD.)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
MANUFACTURER		TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
DIMENSIONS		137 x 72 x 45	137 x 61.5 x 41	126 x 44 x 32.5	135 x 61.5 x 41	130 x 80 x 88	133 x 100 x 99	117 x 72 x 72.5	100 x 50.5 x 58	117 x 72 x 72.5	135 x 100 x 99	117 x 80 x 79	115 x 80 x 79	131 x 44 x 32.5	137 x 80 x 65	127 x 44 x 32.5	138 x 80 x 56.25
OPERATING WEIGHT (LBS.)		1867	1642	1110	1608	2756	3930	1993	1377	2037	3786	2476	2461	1239	2851	1133	2653
NOTES		1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14	1-14

NOTES:

1. PROVIDE UNIT WITH BLOW THRU DIRECT DRIVE PLENUM FAN SECTION, CHILLED WATER COIL SECTION, HOT WATER COIL SECTION, AND 2" ANGLED FILTER SECTION.
2. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE LOSSES DUE TO COILS, FILTERS, AND CASING.
3. PROVIDE UNIT WITH REMOTE MOUNTED VARIABLE FREQUENCY DRIVE.
4. PROVIDE CHILLED WATER COIL WITH 2-WAY AUTOMATIC CONTROL VALVE.
5. PROVIDE HOT WATER COIL WITH 2-WAY AUTOMATIC CONTROL VALVE.
6. PROVIDE SOUND DATA RATED IN ACCORDANCE WITH AHRI 260
7. PROVIDE UNITS WITH FACTORY MOUNTED EXTERNAL JUNCTION BOX (UNITS WITH ONE FAN) AND MOTOR OVERLOAD BOX (UNITS WITH MULTIPLE FANS)
8. PROVIDE CASING WITH MID-SPAN, NO-THROUGH-METAL, INTERNAL THERMAL BREAK SHALL BE PROVIDED FOR ALL FOAM INJECTED UNIT CASING PANELS
9. AIR HANDLING UNITS TO BE PROVIDED WITH SINGLE POINT OF FIELD WIRING CONNECTION
10. PROVIDE AHU DUCT CONNECTIONS IN LOCATION SPECIFIED ON DRAWINGS
11. FIELD FABRICATED MIXING BOX AND DAMPERS BY INSTALLING CONTRACTOR
12. UNITS SHALL BE CAPABLE OF DISASSEMBLY AND REASSEMBLY
13. SPECIFICATION CDE TO BE PROVIDED WITH BID SUBMISSION
14. PROVIDE MANUFACTURER DATA CONFIRMING NO SWEATING OF AHU AT DESIGN CONDITIONS

FAN SCHEDULE

MARK	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7	EF-8	EF-9	EF-10
SERVES	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	MDF
TYPE/DRIVE	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT
INTERLOCK	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS
CFM (MIN./MAX.)	1,100	700	800	700	700	500	700	700	995	2,000
EXT. S.P. (IN. W.G.)	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
HORSEPOWER	1/3	1/4	1/4	1/4	1/4	1/6	1/4	1/4	1/4	3/4
FAN SPEED (RPM)	1,513	1,250	1,353	1,250	1,250	1,295	1,250	1,250	1,725	1,236
SONES (MAX.)	9.2	8.2	9.2	8.2	8.2	7.2	8.2	8.2	8.3	11.5
VOLTS/PHASE/HERTZ	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	GB-100-3	GB-099-4	GB-099-4	GB-099-4	GB-099-4	GB-098-6	GB-099-4	GB-099-4	GB-100-4	GB-140-7
NOTES	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	2,7,8,9,10, 11

MARK	EF-11	EF-12	EF-13	EF-14	EF-15	KEF-1	KEF-2	KSF-1	KSF-2
SERVES	CENTRAL PLANT	CENTRAL PLANT	ELECTRICAL	DISHWASHER	KIT. TOILET	KITCHEN HOOD	KITCHEN HOOD	KITCHEN HOOD	KITHCEN HOOD
TYPE/DRIVE	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/DIRECT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT
INTERLOCK	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS
CFM (MIN./MAX.)	1000 / 2000	5,000	2,500	600	150	3,450	3,600	2,070	2,160
EXT. S.P. (IN. W.G.)	0.500	0.250	0.250	0.625	0.375	1.625	1.625	0.750	0.750
HORSEPOWER	3/4	1 1/2	3/4	1/4	1/6	2	3	1	1
FAN SPEED (RPM)	1,586	977	1,725	1,069	1,134	1,382	1,404	1,337	1,365
SONES (MAX.)	15.3	15.9	15.7	5.8	4.9	18.7	19.4	13.7	14.1
VOLTS/PHASE/HERTZ	115/1/60	460/3/60	115/1/60	115/1/60	115/1/60	460/3/60	460/3/60	115/1/60	115/1/60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	G-130-VG	GB-200-15	GB-140-7	CUBE-099-4	GB-097-6	CUBE-180-20	CUBE-180-30	KSQ-15-M2-VG	KSQ-15-M2-VG
NOTES	5,7,8,9,10, 11	2,7,8,9,10, 11	2,7,8,9,10, 11	4,7,8,9,10, 11	6,7,8,9,10, 11	3,7,8,9,10, 11	3,7,8,9,10, 11	3,7,8,9,10, 11	3,7,8,9,10, 11

NOTES:

1. FAN SHALL BE INTERLOCKED WITH BAS SYSTEM AND AIR HANDLING UNIT SERVING THIS AREA FOR SIMULTANEOUS OPERATION.
2. FAN SHALL BE CONTROLLED BY BAS SYSTEM BASED ON SIGNAL FROM TEMPERATURE SENSOR. FAN SHALL BE ENERGIZED WHEN ROOM TEMPERATURE RISES ABOVE SETPOINT.
3. FAN SHALL BE STARTED AND STOPPED BY SWITCH ON OR NEAR KITCHEN HOOD, EXHAUST FAN AND SUPPLY FAN SERVING THE SAME HOOD SHALL BE INTERLOCKED WITH BAS SYSTEM FOR SIMULTANEOUS OPERATION.
4. FAN SHALL BE INTERLOCKED WITH BAS SYSTEM AND DISHWASHER HOOD AND SHALL HAVE A TIMED RELAY. FAN SHALL BE ENERGIZED WHEN DISHWASHER IS ACTIVATED AND SHALL RUN FOR A MINIMUM OF 10 MINUTES.
5. REFRIGERATION MACHINERY ROOM VENTILATION FAN SHALL OPERATE CONTINUOUSLY AT LOW SPEED TO EXHAUST AIR FROM ROOM AT A RATE OF 1000 CFM. WHEN THE REFRIGERANT MONITORING AND BAS SYSTEM ALARM DETECTS A REFRIGERANT LEAK, THE FAN SHALL BE SWITCHED TO HIGH SPEED TO EXHAUST AIR FROM THE ROOM AT A RATE OF 2000 CFM.
6. TOILET ROOM EXHAUST FAN SHALL BE INTERLOCKED WITH LIGHTS.
7. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES.
8. PROVIDE WITH 12" PREFABRICATED ROOF CURB, WEATHERPROOF DISCONNECT SWITCH, AND ALUMINUM BIRD SCREEN.
9. 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.
10. PROVIDE WITH DIRECT DRIVE, ELECTRONICALLY COMMUTATED FAN MOTOR (ECM).
11. PAINT TO MATCH ROOF.

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/4/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.

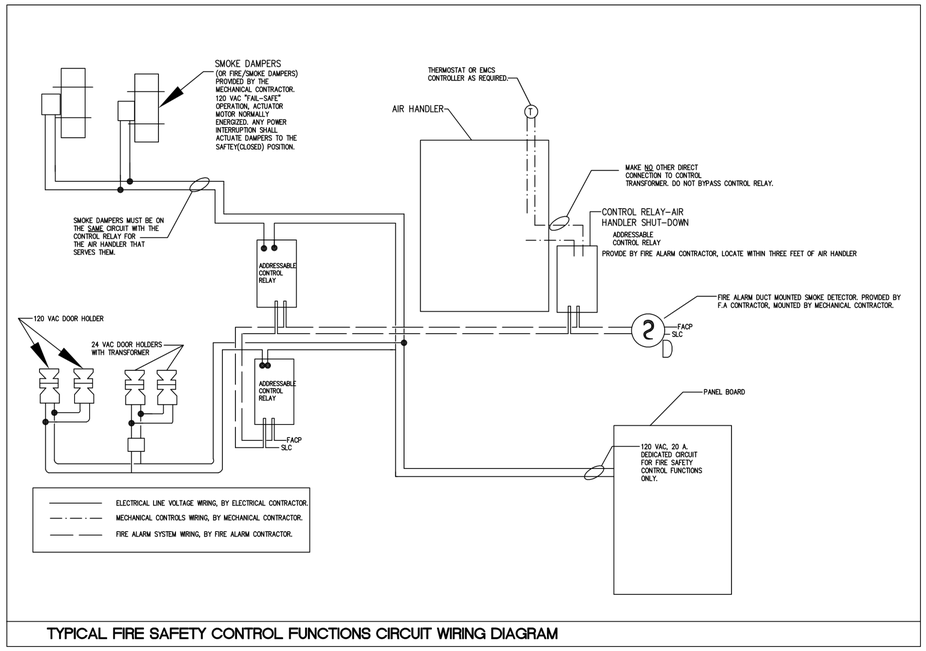
24-046.00

SHEET TITLE

GOFE - MECHANICAL SCHEDULES

SHEET NO.

M25.01



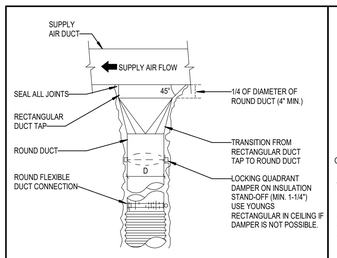
TYPICAL FIRE SAFETY CONTROL FUNCTIONS CIRCUIT WIRING DIAGRAM

GENERAL NOTE: CONTRACTOR TO UPGRADE MAIN GATEWAY FOR BUILDING ON EACH CAMPUS.

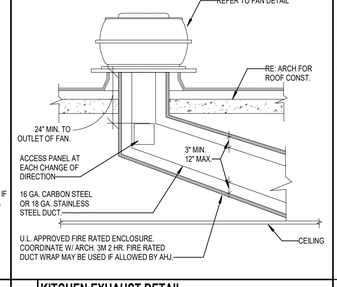
DUAL DUCT MIXING BOX SCHEDULE

MARK	MAX. COOLING CFM	MAX. HEATING CFM	MIN. CFM	INLET SIZE (IN.)		OUTLET (IN.)	MFR	MODEL NO.
				COLD	HOT			
DDMB-5-1	1,580	1,580	475	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-5-2	970	970	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-3	970	970	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-4	940	940	285	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-5	1,285	1,285	390	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-5-6	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-7	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-8	1,325	1,325	400	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-5-9	960	960	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-10	955	955	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-5-11	955	955	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-1	1,550	1,550	465	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-6-2	1,310	1,310	395	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-6-3	570	570	175	9"Ø	9"Ø	10"X11"	TITUS	DMDV
DDMB-6-4	1,080	1,080	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-5	1,060	1,060	320	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-6	1,140	1,140	345	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-6-7	760	760	230	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-6-8	960	960	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-9	1,370	1,370	415	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-6-10	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-11	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-12	1,060	1,060	320	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-13	1,040	1,040	315	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-14	920	920	280	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-6-15	920	920	280	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-1	1,025	1,025	310	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-2	770	770	235	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-7-3	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-4	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-5	1,325	1,325	400	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-7-6	960	960	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-7	955	955	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-7-8	955	955	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-8-1	480	480	145	8"Ø	8"Ø	7"X8"	TITUS	DMDV
DDMB-8-2	450	450	135	8"Ø	8"Ø	7"X8"	TITUS	DMDV
DDMB-8-3	1,160	1,160	350	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-8-4	560	560	170	9"Ø	9"Ø	10"X11"	TITUS	DMDV
DDMB-8-5	340	340	105	6"Ø	6"Ø	6"X6"	TITUS	DMDV
DDMB-8-6	260	260	80	6"Ø	6"Ø	6"X6"	TITUS	DMDV
DDMB-8-7	250	250	75	6"Ø	6"Ø	6"X6"	TITUS	DMDV
DDMB-9-1	550	550	165	9"Ø	9"Ø	10"X11"	TITUS	DMDV
DDMB-9-2	2,280	2,280	685	16"Ø	16"Ø	15" x 16"	TITUS	DMDV
DDMB-9-3	2,025	2,025	610	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-9-4	1,620	1,620	490	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-9-5	600	600	180	9"Ø	9"Ø	10"X11"	TITUS	DMDV
DDMB-10-1	1,120	1,120	340	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-10-2	2,625	2,625	790	16"Ø	16"Ø	15" x 16"	TITUS	DMDV
DDMB-10-3	1,070	1,070	325	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-10-4	1,885	1,885	570	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-10-5	1,800	1,800	540	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-10-6	710	710	215	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-10-7	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-10-8	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-10-9	1,325	1,325	400	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-10-10	960	960	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-10-11	955	955	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-10-12	955	955	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-1	1,040	1,040	315	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-2	450	450	135	8"Ø	8"Ø	7"X8"	TITUS	DMDV
DDMB-11-3	800	800	240	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-11-4	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-5	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-6	1,325	1,325	400	14"Ø	14"Ø	13" x 16"	TITUS	DMDV
DDMB-11-7	960	960	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-8	955	955	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-9	955	955	290	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-11-10	780	780	235	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-11-11	850	850	255	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-12-1	750	750	225	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-12-2	450	450	135	8"Ø	8"Ø	7"X8"	TITUS	DMDV
DDMB-12-3	570	570	175	9"Ø	9"Ø	10"X11"	TITUS	DMDV
DDMB-12-4	550	550	165	9"Ø	9"Ø	10"X11"	TITUS	DMDV
DDMB-12-5	780	780	235	10"Ø	10"Ø	10"X11"	TITUS	DMDV
DDMB-12-6	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-7	980	980	295	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-8	1,060	1,060	320	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-9	1,040	1,040	315	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-10	920	920	280	12"Ø	12"Ø	11"X13"	TITUS	DMDV
DDMB-12-11	920	920	280	12"Ø	12"Ø	11"X13"	TITUS	DMDV

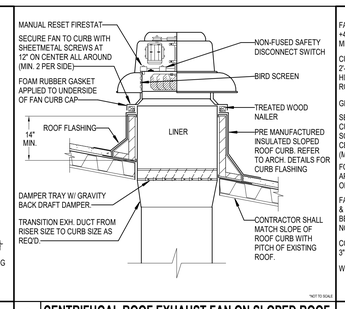
NOTES:
1. PROVIDE AEROCROSS MULTI-POINT CENTER AVERAGING VELOCITY SENSORS IN EACH PRIMARY AIR INLET.
2. PROVIDE MIXING BOX WITH INTEGRAL MIXER / SOUND ATTENUATOR.
3. PROVIDE TERMINAL UNIT CASING WITH 1" INTERNALLY LINED FIBERGLASS FREE INSULATION.
4. EMCS CONTRACTOR SHALL PROVIDE 24VAC TO EACH PRIMARY AIR INLET DAMPER ACTUATOR.



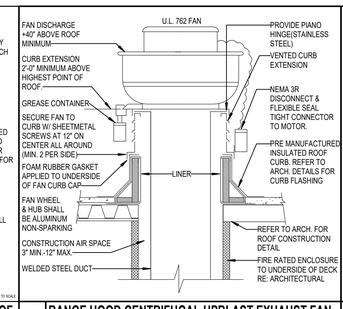
5 RECTANGULAR TAP TO ROUND TRANSITION
NOT TO SCALE



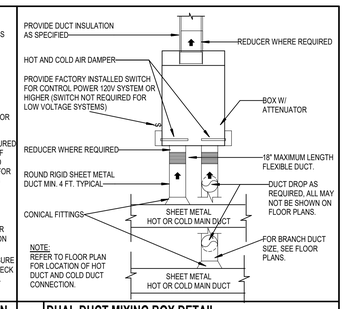
4 KITCHEN EXHAUST DETAIL
NOT TO SCALE



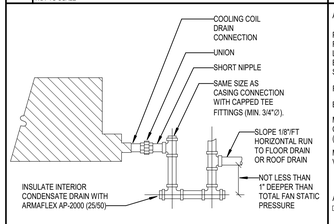
3 CENTRIFUGAL ROOF EXHAUST FAN ON SLOPED ROOF
NOT TO SCALE



2 RANGE HOOD CENTRIFUGAL UPBLAST EXHAUST FAN
NOT TO SCALE

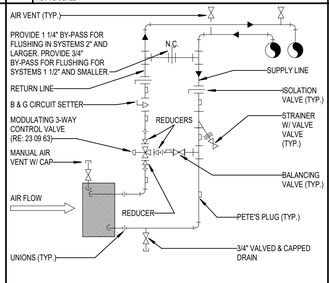


1 DUAL DUCT MIXING BOX DETAIL
NOT TO SCALE



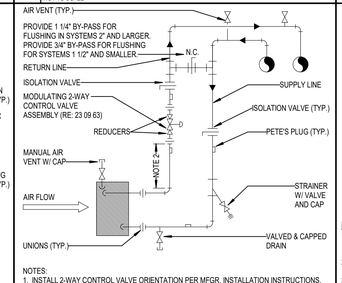
NOTE:
1. MAINTAIN MINIMUM 1" AIR GAP AT FLOOR DRAIN OR ROOF DRAIN.
2. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

10 COOLING COIL CONDENSATE DRAIN
NOT TO SCALE



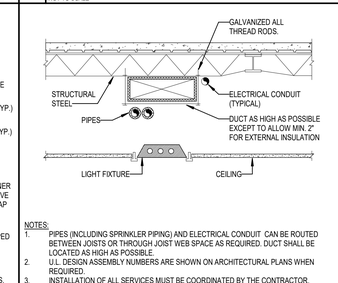
NOTE: INSTALL 3-WAY CONTROL VALVE ORIENTATION PER MFGR. INSTALLATION INSTRUCTIONS

9 3-WAY CONTROL VALVE AND COIL PIPING
NOT TO SCALE



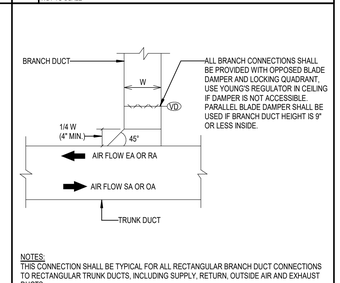
NOTES:
1. INSTALL 2-WAY CONTROL VALVE ORIENTATION PER MFGR. INSTALLATION INSTRUCTIONS.
2. PROVIDE STRAIGHT PIPE LENGTH 5 TIMES NOMINAL PIPE DIA. UPSTREAM OF CTRL. VALVE.

8 2-WAY CONTROL VALVE AND COIL PIPING
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.

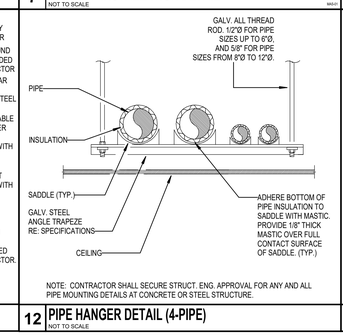
7 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE



NOTES:
THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

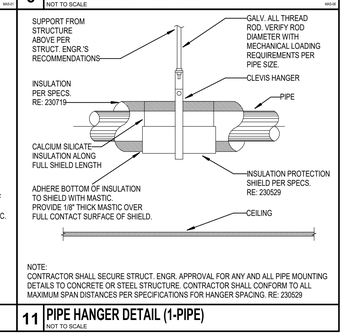
6 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE

13 KILN DETAIL
NOT TO SCALE



NOTE: CONTRACTOR SHALL SECURE STRUCT. ENG. APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS AT CONCRETE OR STEEL STRUCTURE.

12 PIPE HANGER DETAIL (4-PIPE)
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

11 PIPE HANGER DETAIL (1-PIPE)
NOT TO SCALE

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
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LICENSED
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11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - MECHANICAL SCHEDULES & DETAILS

SHEET NO.
M25.02

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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
NIR	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

- $M — MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- (5) — 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
- B — 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, "N/F" 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.
- P — 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 LIFE SAFETY BRANCH CIRCUIT, GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL LIFE SAFETY LIGHTING ORIGINATING FROM THE LIFE SAFETY 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.

MISCELLANEOUS

- F — 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 CONTACTOR; "LCP" LIGHTING CONTROL PANEL; "TS" TIME SWITCH; "TC" TIME CLOCK

DRAWING/DETAIL REFERENCE KEY

RE: 1 /E3-2 — REFER TO DRAWING/DETAIL NUMBER 1; SHEET NUMBER E3-2

PANELBOARD NOMENCLATURE

5 DP C H A 1

- 5 — SUB PANEL
- DP — AREA
- C — VOLTAGE: H: 480Y/277V; L: 208Y/120V
- H — BRANCH: NONE: NORMAL; E: LIFE SAFETY; Q: EQUIPMENT; C: CRITICAL; R: LEGALLY REQUIRED; X: OPTIONAL STAND-BY
- A — DISTRIBUTION PANEL (IF APPLICABLE)
- 1 — LEVEL

GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

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STATE OF TEXAS — WILLIAM MEISTER — 101184 — LICENSED PROFESSIONAL ENGINEER — 11/14/24

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PROJECT NO.
24-046.00

SHEET TITLE
GOFE - ELECTRICAL SYMBOL LEGEND

SHEET NO.
E20.00

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GENERAL LIGHTING DEMOLITION NOTES

A. ALL FIXTURES REMOVED AND REINSTALL SHALL BE CLEANED PRIOR TO REINSTALLATION.

B. ALL EXISTING SWITCHING ZONES SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHER ON PLANS.

C. ALL LIGHT CIRCUIT 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 CONDUIT AND BOXES AS NEEDED.

D. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 80% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.

E. ALL REMOVED AND REINSTALLED LIGHT FIXTURES MUST 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.

F. ALL EXISTING INTERCOM/SPEAKERS SHALL BE REMOVED AND REINSTALLED AS REQUIRED TO FACILITATE RENOVATION. SUBJECT TO EXISTING EQUIPMENT OPERATION CONDITION VERIFICATION.

GENERAL DEMOLITION SCOPE 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 VERIFY AND DOCUMENT EXISTING CONDITIONS OF ALL OUTLETS (AS DEFINED BY NEC) THAT ARE INDICATED OR REQUIRED TO BE REMOVED AND REINSTALLED TO FACILITATE THE WORK REQUIRED BY ALL TRADES. WHERE OUTLETS ARE REINSTALLED IN NON-OPERABLE CONDITION, THE CONTRACTOR SHALL REPLACE AT NO COST TO THE OWNER. DOCUMENT OUTLETS IN NON-WORKING CONDITION PRIOR TO REMOVE AND NOTIFY THE OWNER.

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 RECEPTACLES, SWITCHES, DATA/TELEPHONE DROPS, FIRE ALARM DEVICES, PA DEVICES, CONDUIT, AND WIRING. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX. 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. REFERENCE FIRE ALARM GENERAL NOTES FOR ASSOCIATED FIRE ALARM SCOPE OF WORK.

F. ALL ABANDONED CONDUIT AND BOXES FOUND IN CRAWLSPACES, CEILINGS SPACES, CHASES, OR UTILITY SPACES SHALL BE REMOVED. ANY EXISTING CONDUIT THAT IS UNDERGROUND MAY BE ABANDONED.

G. CONTRACTOR SHALL REVIEW DEMO AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

GENERAL POWER DEMOLITION NOTES:

A. GENERAL DEMOLITION NOTES APPLY TO ALL DEMO/REMODELING SCOPE.

B. WHEN OUTLETS ARE ABANDONED, WIRE MUST BE PULLED OUT OF THE CONDUIT BACK TO THE NEAREST REMAINING BOX OR CABINET. EXPOSED CONDUIT THAT HAS BEEN ABANDONED MUST BE REMOVED.

C. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED DUE TO REMODELING WORK.

D. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.

E. EXISTING CIRCUITS MODIFIED IN FIELD SHALL NOT EXCEED 80% CAPACITY BASED ON AMP-RATING OF CIRCUIT.

F. DO NOT LEAVE ABANDONED CONDUIT, BOXES, EQUIPMENT, OR ENCLOSURES AFTER DEMOLITION. ALL ABANDONED MATIERAL MUST BE REMOVED.

G. IDENTIFICATION AND LABELING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS AND/OR NEW-WORK GENERAL ELECTRICAL NOTES.

H. 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.

I. EXISTING CIRCUIT BREAKERS VACATED DUE TO REMODELING WORK SHALL REMAIN AS SPARE BREAKERS AND TURNED TO THE 'OFF' POSITION.

J. 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 BACK TO LAST ACTIVE JUNCTION AND SALVAGED FOR REINSTALLATION.

EMER. LIGHTING GENERAL NOTES:

A. 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 GTD DEVICE. REFER TO GTD WIRING DIAGRAM ON SHEET XXX FOR ADDITIONAL INFORMATION.

B. ALL EMERGENCY LIGHT FIXTURE GENERATOR TRANSFER DEVICES SHALL BE CONNECTED TO THE EMERGENCY EGRESS LIGHTING CIRCUIT INDICATED ON DRAWINGS. ALL EMERGENCY WIRING SHALL BE ROUTED IN A SEPARATE CONDUIT.

GENERAL ELECTRICAL NOTES:

A. 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 REQUIRE HANDLE TIES ON GROUPED BY ALL CIRCUITS SHARING A NEUTRAL. REFERENCE CURRENTLY ADOPTED NEC ARTICLE 210

B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES, AND WIRING/CABLING FOR ALL TELEPHONE, DATA, CATV, SECURITY, AND CAMERA OUTLETS. REFER TO DIVISION 16 SPECIFICATIONS FOR ALL WORK REQUIRED.

D. NEW ELECTRICAL EQUIPMENT LOCATED IN ELECTRICAL ROOMS SHALL BE ARRANGED TO COMPLY WITH LATEST NEC ARTICLE 110.

E. HVAC AND PLUMBING EQUIPMENT MAY NOT BE LOCATED AS SHOWN ON PLAN. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EQUIPMENT CONNECTIONS WITH OTHER TRADES, INCLUDING ANY CONNECTIONS THAT MAY EXIST OUTSIDE OF THE LIMITS OF WORK SHOWN ON PLAN.

F. MULTI-WIRE CIRCUITS ARE PROHIBITED FOR COPIERS AND IT EQUIPMENT. PROVIDE A DEDICATED HOT, NEUTRAL, GROUND, AND CONDUIT.

G.

H. ALL GFCI RECEPTACLES SHALL BE ACCESSIBLE. PROVIDE SEPARATE RECEPTACLE PROTECTED BY "FACELESS GFCI." REQUIRED TO COMPLY WITH CURRENTLY ADOPTED NEC.

I. CONTRACTOR SHALL PROVIDE PLENUM RATED MATERIAL FOR ALL INFRASTRUCTURE LOCATED IN PLENUMS NOT PROTECTED BY CONDUIT OR ANOTHER APPROVED/LISTED FIRE ENCLOSURE.

J. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL 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. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.

K. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

GENERAL ELECTRICAL NOTES:

A. ELECTRICAL DEVICES 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 FOR ALL DIV. 21/22/23 EQUIPMENT.

D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

E. MINIMIZE ROOF PENETRATIONS. 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.

G. MULTI-WIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING.

H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR MAY PROVIDE NON-TAMPER-RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406

I. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - ELECTRICAL GENERAL NOTES

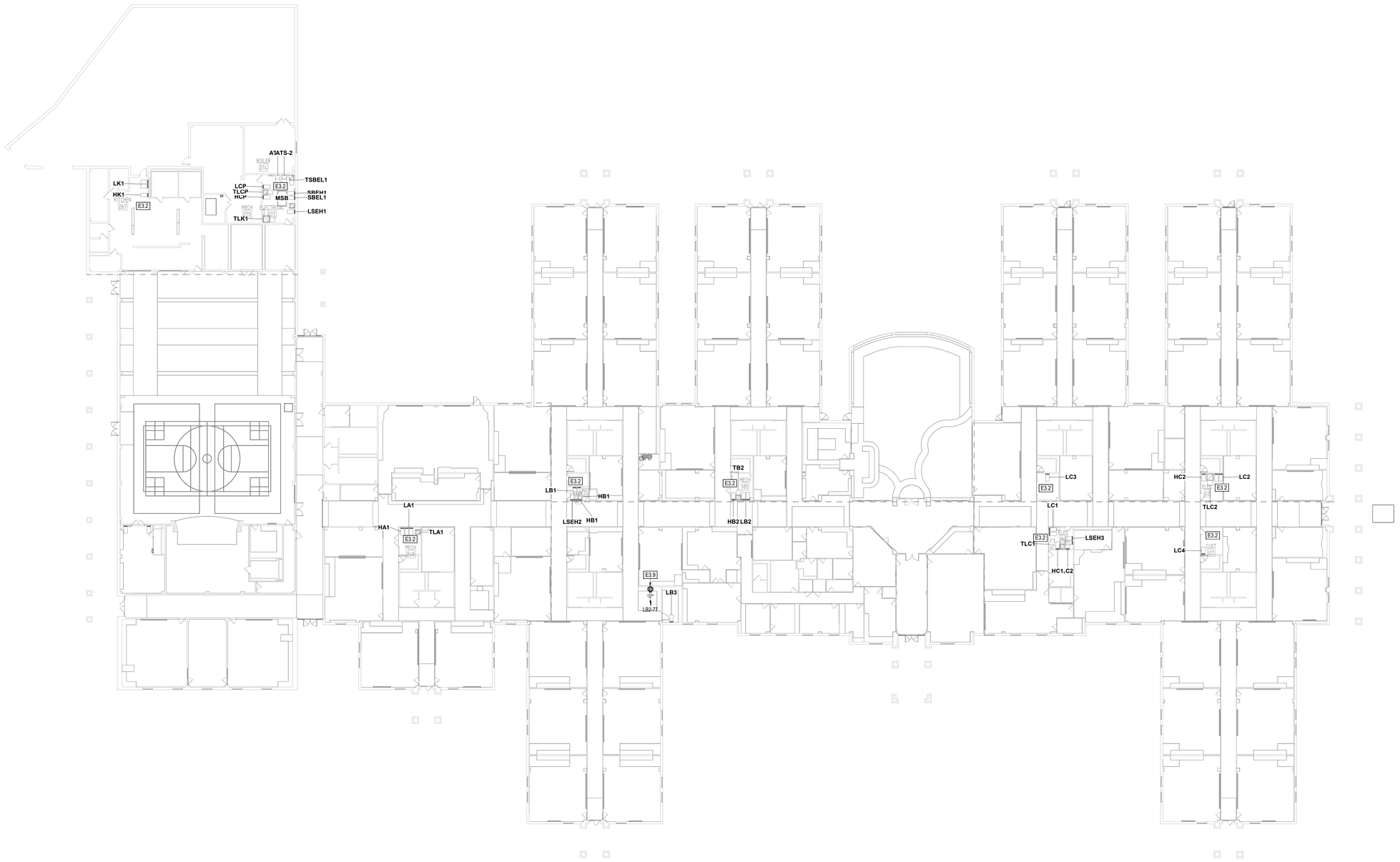
SHEET NO.

E20.01

ELECTRICAL KEYED NOTES

E3.2 ELECTRICAL EQUIPMENT IN THIS ROOM SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. . CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT.

E3.9 PROVIDE 120V POWER FOR KITCHEN FIRE SUPPRESSION SYSTEM. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE MOTOR RATED SWITCH. RANGE CORD AND PLUG SHALL BE CONNECTED VIA FIRE SUPPRESSION SYSTEM ELECTRIC SHUT OFF. TIE SYSTEM WITH BUILDING'S EXISTING FIRE ALARM SYSTEM. COORDINATE EXACT ELECTRICAL REQUIREMENTS PRIOR TO INSTALLATION.



1 E22.11 **COMPOSITE POWER PLAN - LEVEL ONE**
1" = 20'-0"

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Proj. Arch.	
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PROJECT NO.
24-046.00

SHEET TITLE
GOFE - COMPOSITE POWER PLAN - LEVEL ONE

SHEET NO.
E22.11

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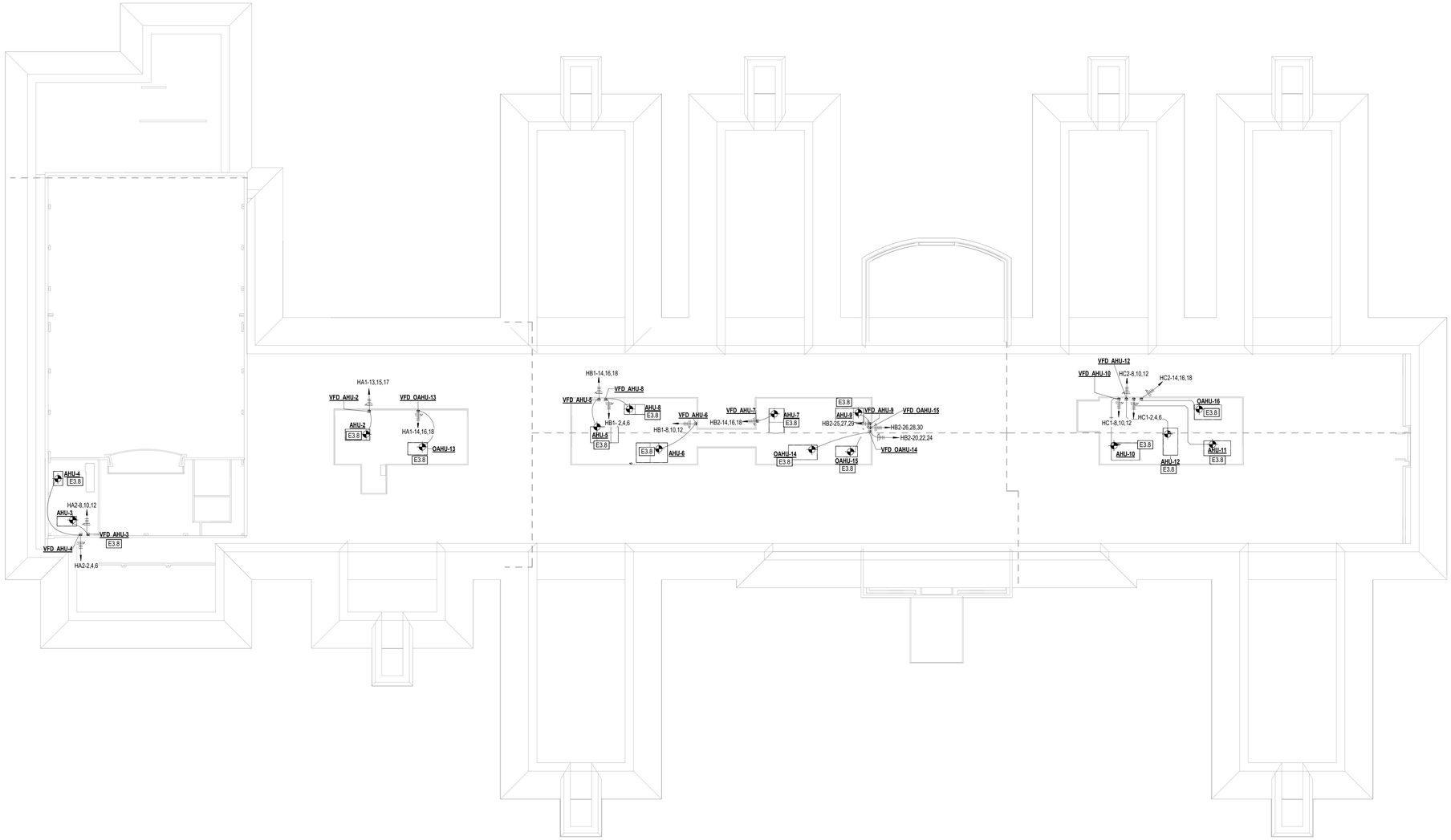
ELECTRICAL KEYED NOTES

E3.8 REPLACE ALL AIR HANDLING UNIT. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. REMOVE ALL WIRE BACK TO PANEL. PROVIDE NEW CONDUIT AND NEW # WIRE AND RECONNECT TO EXISTING CIRCUIT. WHERE SHOWN ON PLAN, CIRCUIT NUMBER SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL TRACE CIRCUIT AND FIELD VERIFY EXACT CIRCUIT NUMBER. WIRE AND CONNECT THROUGH VFD PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26. COORDINATE WITH DIVISION 23 PRIOR TO WORK.



1 E22.12 **COMPOSITE POWER PLAN - LEVEL TWO**
1" = 20'-0"

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CCISD Priority Repairs - FAPE GOFE ROBE

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SHEET TITLE

GOFE - COMPOSITE POWER PLAN - LEVEL TWO

SHEET NO.

E22.12

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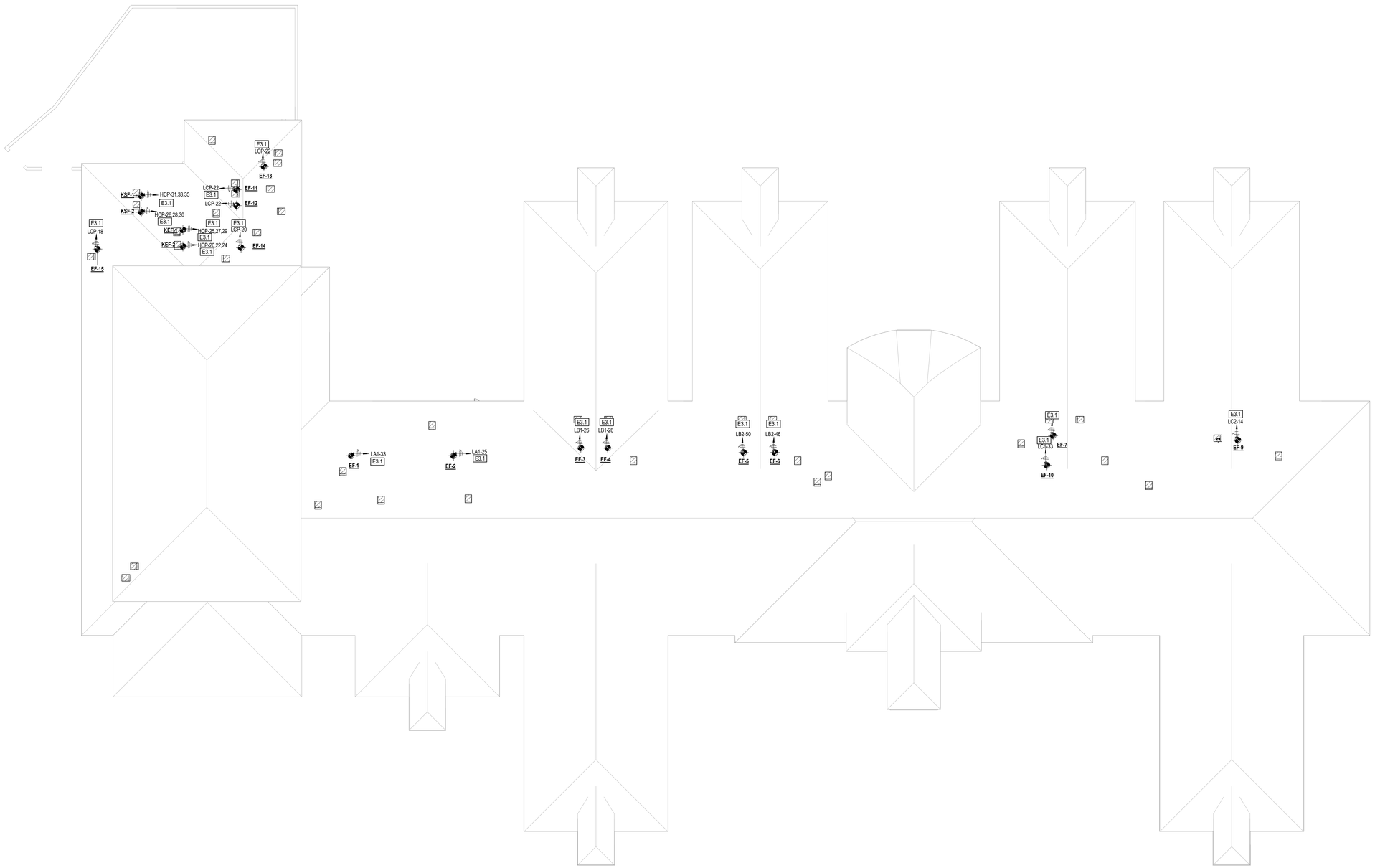
ELECTRICAL KEYED NOTES

E3.1 REPLACE EXHAUST FAN. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. REMOVE ALL WIRE BACK TO PANEL. PROVIDE NEW CONDUIT AND NEW #10 WIRE AND RECONNECT TO EXISTING CIRCUIT. WHERE SHOWN ON PLAN, CIRCUIT NUMBER IS FOR REFERENCE ONLY. TRACE CIRCUIT AND FIELD VERIFY EXACT CIRCUIT NUMBER. WIRE AND CONNECT TO NEW DISCONNECT PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26. COORDINATE WITH DIVISION 23 PRIOR TO WORK.



1 E25.11 **ELECTRICAL ROOF PLAN**
1" = 20'-0"

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CCISD PROJECT NO:
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KEY PLAN

STATE OF TEXAS
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SHEET TITLE
GOFE - ELECTRICAL ROOF PLAN

SHEET NO.
E25.11

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1 E26.01 **ELECTRICAL LIGHTING PLAN - LEVEL ONE - DEMO - UNIT A**
1/8" = 1'-0"

ELECTRICAL KEYED NOTES

E8.1 EXISTING STAGE LIGHTING FIXTURES SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE.

E8.2 EXISTING DIMMING PANEL SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE.

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REVISIONS

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Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
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GOFE - LIGHTING PLAN - DEMO - UNIT A

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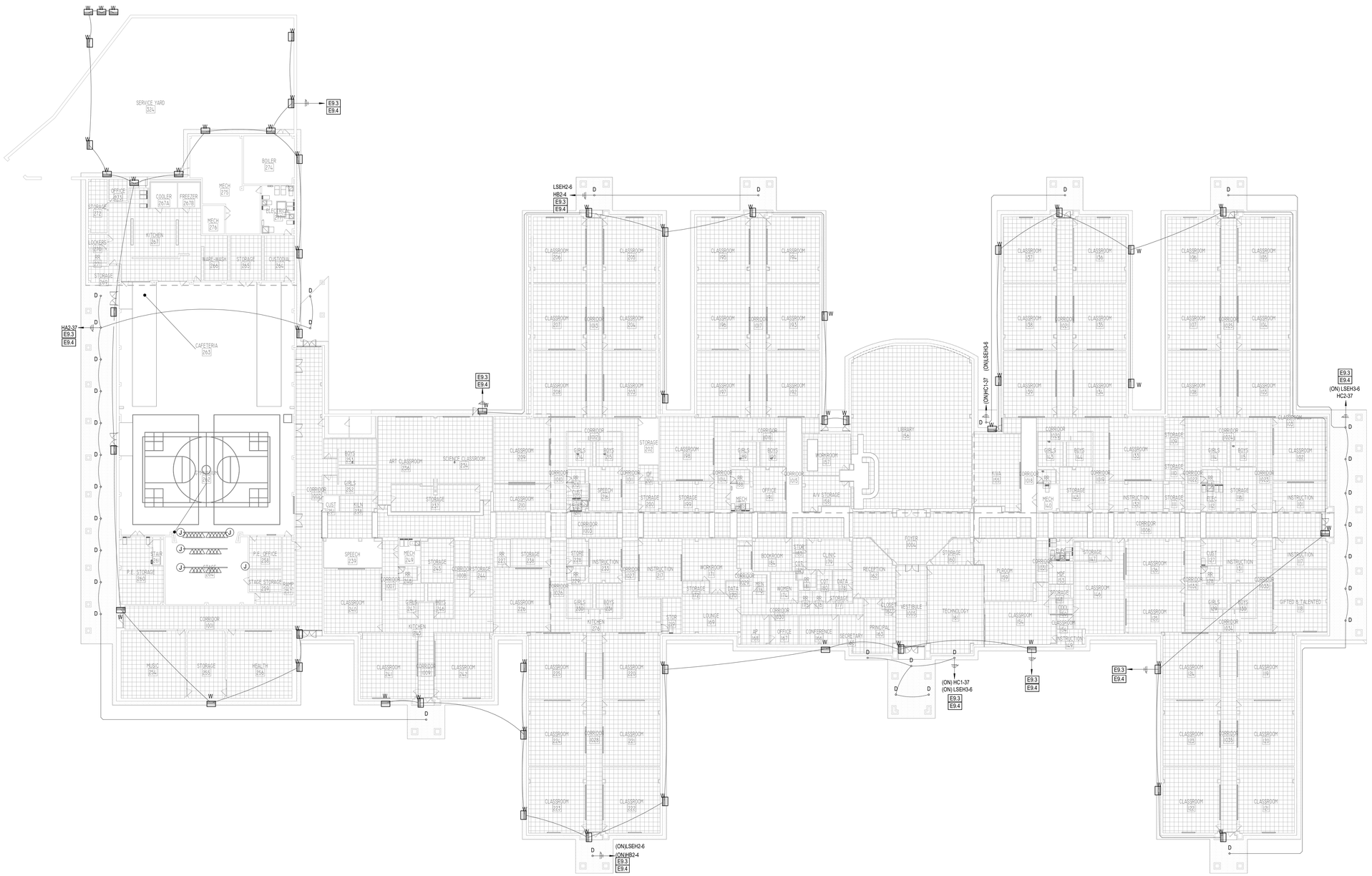
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	MOUNTING	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
D	KIRLIN	LKS-08074-6500L-277-X-80CRI-D1	RECESSED	LED	277 V	74 VA	8" SQUARE UPGRADE KIT EXTERIOR DOWNLIGHT
W	GARDCO	101L-32L-530-NW-G1-2-UNV-CSS0-FINISH	SURFACE	LED	277 V	24 VA	EXTERIOR WALL PACK

ELECTRICAL KEYED NOTES

E9.3 EXISTING LIGHT FIXTURES SHALL BE REMOVED AND REPLACED WITH NEW. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. PROVIDE NEW WIRE. RE-USE EXISTING CONDUIT WHERE POSSIBLE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF LIGHT FIXTURES.

E9.4 ROUTE CIRCUIT VIA BODINE UL1008 GTD 20A GENERATOR TRANSFER DEVICE. LOCATE GTD ADJACENT TO EMERGENCY PANEL SERVING EMERGENCY LIGHTING CIRCUIT. CONNECT NORMAL AND EMERGENCY CIRCUIT POWER TO CIRCUITS INDICATED ON PLANS. ROUTE NORMAL CIRCUIT THROUGH LIGHTING CONTACTOR. TYPICAL FOR ALL EXTERIOR LIGHTING CIRCUITS.



1 E26.11 **COMPOSITE ELECTRICAL LIGHTING PLAN - LEVEL ONE**
1" = 20'-0"

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CCISD PROJECT NO:
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KEY PLAN

CCISD Priority Repairs - FAPE GOFE ROBOTICS

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SHEET TITLE
GOFE - COMPOSITE LIGHTING PLAN - LEVEL ONE

SHEET NO.
E26.11

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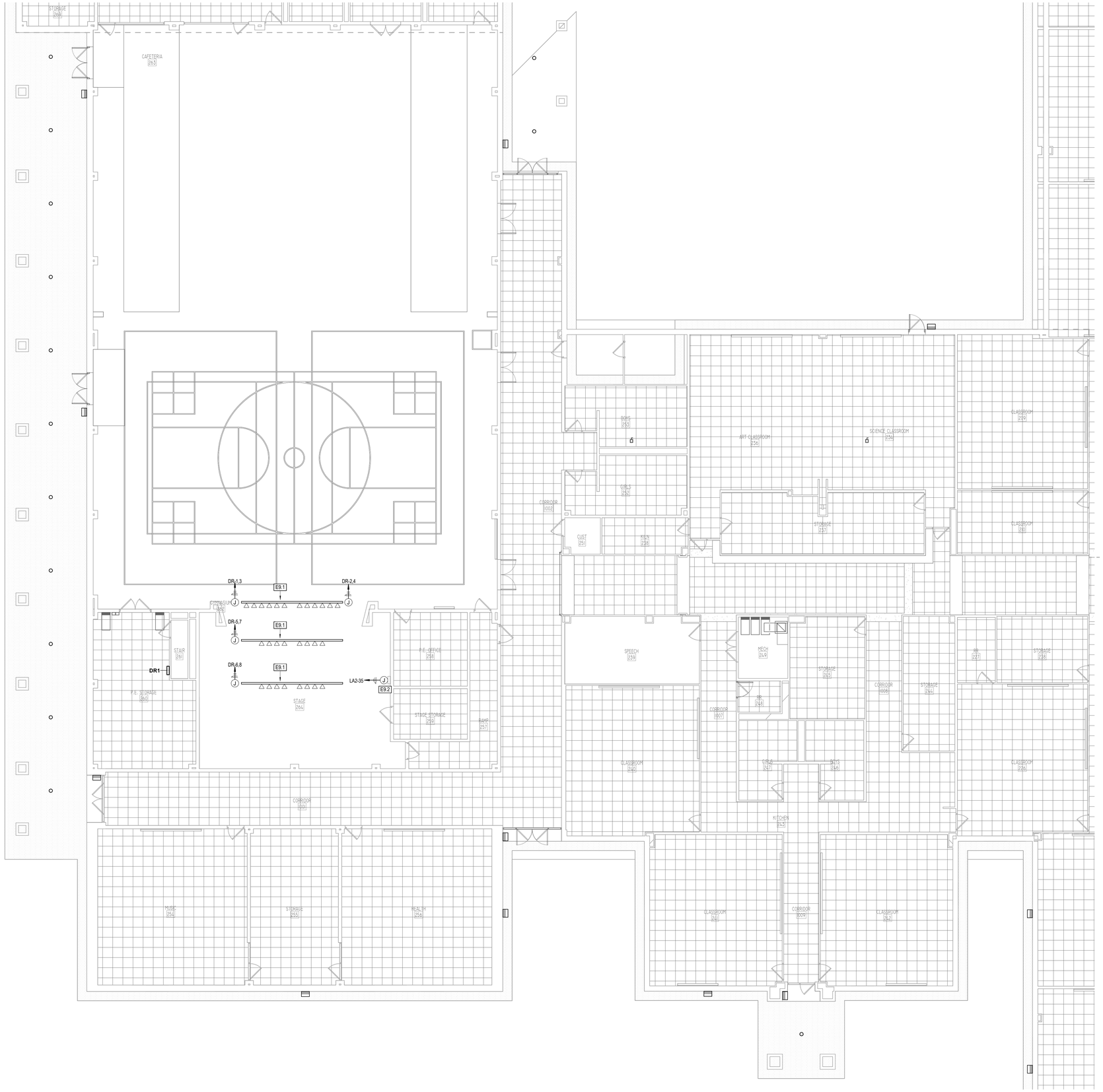

1 E26.11A **ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT A**
1/8" = 1'-0"

ELECTRICAL KEYED NOTES

E9.1 STAGE LIGHTING BARS. REFER TO SHEET E27.14 FOR STAGE LIGHTING RISER DIAGRAM. PROVIDE POWER FROM RELAY PANEL. PROVIDE ALL COMPONENTS REQUIRED FOR COMPLETE SYSTEM. WIRE AND CONNECT AS REQUIRED.

E9.2 PROVIDE POWER TO TOUCHSCREEN STATE LIGHTING CONTROL STATION POWER SUPPLY. ROUTE (1) 3/4" CONDUIT DOWN IN WALL TO STATIO FOR POWER CONNECTION. ROUTE (1) 3/4" CONDUIT WITH PULL STRONG DOWN IN WALL TO STATION FOR DATA.

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CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

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SHEET TITLE
GOFE - LIGHTING PLAN - UNIT A

SHEET NO.
E26.11A

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Panelboard LA1

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
2 Section
1 -Nema Rating

X MCB 225 AMP MCB
MLO 225 AMP BUS (Copper)

Single
Double
X Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	720	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	720	1
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	600	1
1	1080	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	720	1
1	1080	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	19	A	20	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	21	B	22	50/2	8	K	EXISTING CIRCUIT	720	1
1	1080	EXISTING CIRCUIT	R	12	20/1	23	C	24	50/1	8		-		
2	700	**EF-2**	F	12	20/1	25	A	26	40/3	8	M	EXISTING CIRCUIT	3000	1
1	1000	EXISTING CIRCUIT	R	12	20/1	27	B	28	40/3	8		-		
1	150	EXISTING CIRCUIT	R	12	20/1	29	C	30	40/3	8		-		
1	325	EXISTING CIRCUIT	R	12	20/1	31	A	32	20/1	12	R	EXISTING CIRCUIT	900	1
2	700	**EF-1**	F	12	20/1	33	B	34	20/1	12	R	EXISTING CIRCUIT	1080	1
1	600	EXISTING CIRCUIT	F	12	20/1	35	C	36	20/1	12	R	EXISTING CIRCUIT	730	1
1	600	EXISTING CIRCUIT	F	12	20/1	37	A	38	20/1	12	R	EXISTING CIRCUIT	900	1
1	360	EXISTING CIRCUIT	R	12	20/1	39	B	40	20/1	12	R	EXISTING CIRCUIT	1080	1
1	560	EXISTING CIRCUIT	R	12	20/1	41	C	42	20/1	12	R	EXISTING CIRCUIT	900	1
1	360	EXISTING CIRCUIT	M	12	20/1	43	A	44	20/1	12	R	EXISTING CIRCUIT	720	1
1	1500	EXISTING CIRCUIT	M	12	20/1	45	B	46	20/1	12	R	EXISTING CIRCUIT	600	1
1	300	EXISTING CIRCUIT	M	12	20/1	47	C	48	20/1	12	R	EXISTING CIRCUIT	900	1
1	300	EXISTING CIRCUIT	M	12	20/1	49	A	50	20/1	12	R	EXISTING CIRCUIT	1080	1
1	300	EXISTING CIRCUIT	R	12	20/1	51	B	52	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	53	C	54	20/1	12	R	EXISTING CIRCUIT	600	1
1	720	EXISTING CIRCUIT	R	12	20/1	55	A	56	30/3	10	M	EXISTING CIRCUIT	720	1
1	900	EXISTING CIRCUIT	R	12	20/1	57	B	58	30/3	10	M	-		
1	1020	EXISTING CIRCUIT	R	12	20/1	59	C	60	30/3	10	M	-		
1	900	EXISTING CIRCUIT	R	12	20/1	61	A	62	20/1	12	R	EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT	R	12	20/1	63	B	64	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	65	C	66	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	67	A	68	20/1	12	R	EXISTING CIRCUIT	900	1
		SPACE				69	B	70				SPACE		
		SPACE				71	C	72				SPACE		
		SPACE				73	A	74				SPACE		
		SPACE				75	B	76				SPACE		
		SPACE				77	C	78				SPACE		
		SPACE				79	A	80				SPACE		
		SPACE				81	B	82				SPACE		
		SPACE				83	C	84				SPACE		
	19,275	Subtotal										Subtotal	0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	13,915		11,958	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	2,600	100%	2,600	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	2,460	100%	2,460		(SP) Sub Panel	0	100%	0

Total Connected Load = 18,975 VA = 52.7 AMPS
Total Load (Diversified)= 17,018 VA = 47.3 AMPS

Location of Panel:

Panelboard LB1

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
2 Section
1 -Nema Rating

X MCB 225 AMP MCB
MLO 225 AMP BUS (Copper)

Single
Double
X Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	15/1	12	M	EXISTING CIRCUIT	325	1
1	1080	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	360	1
1	720	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	360	1
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	360	1
1	1080	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	720	1
1	1080	EXISTING CIRCUIT	R	12	20/1	15	B	16				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	17	C	18				SPACE		
1	720	EXISTING CIRCUIT	R	12	20/1	19	A	20				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	21	B	22				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	23	C	24				SPACE		
1	720	EXISTING CIRCUIT	R	12	20/1	25	A	26	20/1	12	F	**EF-3**	700	2
1	1080	EXISTING CIRCUIT	R	12	20/1	27	B	28	20/1	12	F	**EF-4**	700	2
1	1080	EXISTING CIRCUIT	R	12	20/1	29	C	30	20/1	12	R	EXISTING CIRCUIT	360	1
1	720	EXISTING CIRCUIT	R	12	20/1	31	A	32	20/1	12	M	EXISTING CIRCUIT	500	1
1	1080	EXISTING CIRCUIT	R	12	20/1	33	B	34	20/1	12	M	EXISTING CIRCUIT	500	1
1	1080	EXISTING CIRCUIT	R	12	20/1	35	C	36	20/1	12		SPARE		
1	720	EXISTING CIRCUIT	R	12	20/1	37	A	38	100/3	3	SP	EXISTING CIRCUIT	8470	1
1	1080	EXISTING CIRCUIT	R	12	20/1	39	B	40	100/3	3	SP	-	14020	1
1	1080	EXISTING CIRCUIT	R	12	20/1	41	C	42	100/3	3	SP	-	12215	1
1	720	EXISTING CIRCUIT	R	12	20/1	43	A	44	30/3	10	M	EXISTING CIRCUIT	0	
1	1080	EXISTING CIRCUIT	R	12	20/1	45	B	46	30/3	10	M	-	0	
1	1080	EXISTING CIRCUIT	R	12	20/1	47	C	48	30/3	10	M	-	0	
1	500	EXISTING CIRCUIT	M	12	20/1	49	A	50				SPACE		
1	720	EXISTING CIRCUIT	R	12	20/1	51	B	52				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	53	C	54				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	55	A	56				SPACE		
1	720	EXISTING CIRCUIT	R	12	20/1	57	B	58				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	59	C	60				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	61	A	62				SPACE		
		SPACE				63	B	64				SPACE		
		SPACE				65	C	66				SPACE		
		SPACE				67	A	68				SPACE		
		SPACE				69	B	70				SPACE		
		SPACE				71	C	72				SPACE		
		SPACE				73	A	74				SPACE		
		SPACE				75	B	76				SPACE		
		SPACE				77	C	78				SPACE		
		SPACE				79	A	80				SPACE		
		SPACE				81	B	82				SPACE		
		SPACE				83	C	84				SPACE		
	29,300	Subtotal										Subtotal	41,390	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	32,760		21,380	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	1,400	100%	1,400	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	1,825	100%	1,825		(SP) Sub Panel	34,705	100%	34,705

Total Connected Load = 70,690 VA = 196.4 AMPS
Total Load (Diversified)= 59,310 VA = 164.8 AMPS

Location of Panel:

Panelboard LC1

10000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
2 Section
1 -Nema Rating

X MCB 225 AMP MCB
MLO 225 AMP BUS (Copper)

Single
X Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	180	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	1080	1
1	180	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	1080	1
1	180	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	1080	1
1	180	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	1080	1
1	180	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	1080	1
1	180	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1440	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1620	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1000	EXISTING CIRCUIT	M	12	20/1	19	A	20	20/1	12	R	EXISTING CIRCUIT	1080	1
1	540	EXISTING CIRCUIT	R	12	20/1	21	B	22	20/1	12	R	EXISTING CIRCUIT	1080	1
1	540	EXISTING CIRCUIT	R	12	20/1	23	C	24	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1260	EXISTING CIRCUIT	R	12	20/1	25	A	26	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	27	B	28	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	29	C	30	20/1	12	R	EXISTING CIRCUIT	1080	1
1	300	EXISTING CIRCUIT	M	12	20/1	31	A	32	20/1	12	R	EXISTING CIRCUIT	1080	1
2	700	**EF-10**	F	12	20/1	33	B	34	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1200	EXISTING CIRCUIT	M	12	20/1	35	C	36	20/1	12	R	EXISTING CIRCUIT	1080	1
	0	EXISTING CIRCUIT	M	10	30/3	37	A	38	20/1	12	R	EXISTING CIRCUIT	1080	1
	0	-	M	10	30/3	39	B	40	20/1	12	R	EXISTING CIRCUIT	1080	1
	0	-	M	10	30/3	41	C	42	20/1	12	R	EXISTING CIRCUIT	1080	1
	2400	FUTURE DRYER	M	10	30/2	43	A	44	20/1	12	R	EXISTING CIRCUIT	1080	1
	2400	-	M	10	30/2	45	B	46	20/1	12	R	EXISTING CIRCUIT	1080	1
1	500	EXISTING CIRCUIT	M	12	20/1	47	C	48	20/1	12	R	EXISTING CIRCUIT	900	1
1	500	EXISTING CIRCUIT	M	12	20/1	49	A	50	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	51	B	52	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	53	C	54	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	55	A	56	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	57	B	58	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	59	C	60	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	61	A	62	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	63	B	64	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	65	C	66				SPARE		
1	900	EXISTING CIRCUIT	R	12	20/1	67	A	68				SPARE		
		SPACE				69	B	70				SPARE		
		SPACE				71	C	72	100/3	3	SP	EXISTING CIRCUIT	10000	1
		SPACE				73	A	74	100/3	3	SP	-	10000	
		SPACE				75	B	76	100/3	3	SP	-	10000	
		SPACE				77	C	78				SPACE		
		SPACE				79	A	80				SPACE		
		SPACE				81	B	82				SPACE		
		SPACE				83	C	84				SPACE		
	26,460	Subtotal										Subtotal	32,940	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	50,400		30,200	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	700	100%	700	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	8,300	100%	8,300		(SP) Sub Panel	0	100%	0

Total Connected Load = 59,400 VA = #DIV/0! AMPS
Total Load (Diversified)= 39,200 VA = #DIV/0! AMPS

Location of Panel:

PANEL SCHEDULE GENERAL NOTES:

A. ALL CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY AVAILABILITY OF BREAKERS AFTER DEMOLITION. CONTRACTOR SHALL UTILIZE EXISTING SPARE BREAKERS. PROVIDE ALTERNATE PRICING FOR ADDITIONAL 100A PANEL IF REQUIRED DUE TO LACK OF SPACE.

PANEL SCHEDULE NOTES:

1. EXISTING LOAD SHALL REMAIN.
2. CONNECT NEW BRANCH CIRCUIT TO EXISTING SPARE BREAKER.
3. REPLACE EXISTING SPACE WITH NEW BREAKER INDICATED.
4. REPLACE EXISTING BREAKER WITH NEW BREAKER INDICATED.

Panelboard LA2

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 150 AMP MCB
MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	1080	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	540	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	900	1
1	1260	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	500	1
1	540	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	360	1
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	360	1
1	900	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	1000	1
1	900	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	360	1
1	720	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	500	1
1	200	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	200	1
		60A/3P SPARE		6	60/3	19	A	20	20/1	12	R	EXISTING CIRCUIT	1000	1
		-		6	60/3	21	B	22	20/1	12	R	EXISTING CIRCUIT	500	1
		-		6	60/3	23	C	24	20/1	12	R	EXISTING CIRCUIT	500	1
1	900	EXISTING CIRCUIT	R	12	20/1	25	A	26	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	27	B	28	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	29	C	30	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	31	A	32	20/1	12	R	**TOUCH SCREEN**	**250**	2
1	900	EXISTING CIRCUIT	R	12	20/1	33	B	34				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	35	C	36				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	37	A	38	30/3	10	SP	EXISTING CIRCUIT	0	1
1	900	EXISTING CIRCUIT	R	12	20/1	39	B	40	30/3	10	SP	EXISTING CIRCUIT	0	
1	900	EXISTING CIRCUIT	R	12	20/1	41	C	42	30/3	10	SP	EXISTING CIRCUIT	0	
	15,860	Subtotal										Subtotal	9,670	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	25,530		17,765	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 25,530 VA = 70.9 AMPS
Total Load (Diversified)= 17,765 VA = 49.3 AMPS

Location of Panel:

Panelboard LB2

0 AIC Rating
X Existing
New

208/120 Volt,3-Phase,4-Wire
2 Section
1 -Nema Rating

X MCB 150 AMP MCB
MLO 225 AMP BUS (Copper)

Single
Double
X Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	M	EXISTING CIRCUIT	1500	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	1440	1
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	M	EXISTING CIRCUIT	500	1
1	1080	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	1080	1
1	720	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	1800	1
1	720	EXISTING CIRCUIT	R	12	20/1	19	A	20	20/1	12	R	EXISTING CIRCUIT	1440	1
1	1080	EXISTING CIRCUIT	R	12	20/1	21	B	22	20/1	12	R	EXISTING CIRCUIT	1620	1
1	1080	EXISTING CIRCUIT	R	12	20/1	23	C	24	20/1	12	R	EXISTING CIRCUIT	12690	1
1	720	EXISTING CIRCUIT	R	12	20/1	25	A	26	20/1	12	R	EXISTING CIRCUIT	1440	1
1	1080	EXISTING CIRCUIT	R	12	20/1	27	B	28	20/1	12	R	EXISTING CIRCUIT	1440	1
1	1080	EXISTING CIRCUIT	R	12	20/1	29	C	30	20/1	12	R	EXISTING CIRCUIT	900	1
1	720	EXISTING CIRCUIT	R	12	20/1	31	A	32	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	33	B	34	20/1	12	R	EXISTING CIRCUIT	540	1
1	1080	EXISTING CIRCUIT	R	12	20/1	35	C	36	20/1	12	R	EXISTING CIRCUIT	720	1
1	900	EXISTING CIRCUIT	R	12	20/1	37	A	38	20/1	12	R	EXISTING CIRCUIT	900	1
1	1440	EXISTING CIRCUIT	R	12	20/1	39	B	40	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1800	EXISTING CIRCUIT	M	12	20/1	41	C	42	20/1	12	R	EXISTING CIRCUIT	1080	1
1	500	EXISTING CIRCUIT	M	12	20/1	43	A	44	20/1	12	R	EXISTING CIRCUIT	1080	1
1	360	EXISTING CIRCUIT	R	12	20/1	45	B	46	20/1	12	F	**EF-6 (1/4 HP)**	700	2
1	1440	EXISTING CIRCUIT	R	12	20/1	47	C	48	15/1	12	R	EXISTING CIRCUIT	325	1
1	1080	EXISTING CIRCUIT	R	12	20/1	49	A	50	20/1	12	F	**EF-5 (1/4 HP)**	700	2
1	500	EXISTING CIRCUIT	R	12	20/1	51	B	52	30/2	10	M	COPIER	2400	1
1	720	EXISTING CIRCUIT	R	12	20/1	53	C	54	30/2	10	M	-	2400	
1	540	EXISTING CIRCUIT	R	12	20/1	55	A	56	20/1	12	R	EXISTING CIRCUIT	500	1
1	1440	EXISTING CIRCUIT	R	12	20/1	57	B	58	20/1	12	R	EXISTING CIRCUIT	500	1
1	200	EXISTING CIRCUIT	R	12	20/1	59	C	60	20/1	12	R	EXISTING CIRCUIT	500	1
1	720	EXISTING CIRCUIT	M	12	20/1	61	A	62	30/3	10	R	EXISTING CIRCUIT	0	1
1	500	EXISTING CIRCUIT	R	12	20/1	63	B	64	30/3	10		-	0	
1	500	EXISTING CIRCUIT	R	12	20/1	65	C	66	30/3	10		-	0	
1	500	EXISTING CIRCUIT	R	12	20/1	67	A	68	15/1	12	M	EXISTING CIRCUIT	325	1
1	900	EXISTING CIRCUIT	R	12	20/1	69	B	70	20/1	12	R	EXISTING CIRCUIT	1500	1
1	900	EXISTING CIRCUIT	R	12	20/1	71	C	72	20/1	12	R	EXISTING CIRCUIT	360	1
1	900	EXISTING CIRCUIT	R	12	20/1	73	A	74	20/1	12	R	EXISTING CIRCUIT	180	1
1	900	EXISTING CIRCUIT	R	12	20/1	75	B	76				SPACE		
3	500	FIRE SUPPRESSION	M	12	20/1	77	C	78				SPACE		
		SPACE				79	A	80				SPACE		
		SPACE				81	B	82				SPACE		
		SPACE				83	C	84				SPACE		
	34,020	Subtotal										Subtotal	47,040	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	68,615		39,308	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	1,400	100%	1,400	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	10,145	100%	10,145		(SP) Sub Panel	0	100%	0

Total Connected Load = 80,160 VA = #DIV/0! AMPS
Total Load (Diversified)= 50,853 VA = #DIV/0! AMPS

Location of Panel:

Panelboard LC2

0 AIC...
X Existing
New

120/208 Volt,3-Phase,4-Wire
2 Section
1 -Nema Rating

X MCB 225 AMP MCB
MLO 225 AMP BUS (Copper)

Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	M	EXISTING CIRCUIT	325	1
1	1080	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	720	1
1	720	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	720	1
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	1260	1
1	1080	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	F	**EF-8**	700	2
1	720	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	F	**EF-9**	700	2
1	1080	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	M	EXISTING CIRCUIT	500	1
1	1080	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	M	EXISTING CIRCUIT	500	1
1	720	EXISTING CIRCUIT	R	12	20/1	19	A	20	20/1	12	M	EXISTING CIRCUIT	200	1
1	1080	EXISTING CIRCUIT	R	12	20/1	21	B	22				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	23	C	24				SPACE		
1	720	EXISTING CIRCUIT	R	12	20/1	25	A	26				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	27	B	28				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	29	C	30				SPACE		
1	720	EXISTING CIRCUIT	R	12	20/1	31	A	32	30/3	10	M	EXISTING CIRCUIT	0	1
1	1080	EXISTING CIRCUIT	R	12	20/1	33	B	34	30/3	10	M	-	0	
1	1080	EXISTING CIRCUIT	R	12	20/1	35	C	36	30/3	10	M	-	0	
1	720	EXISTING CIRCUIT	R	12	20/1	37	A	38	100/3	3	SP	EXISTING CIRCUIT	8480	1
1	1080	EXISTING CIRCUIT	R	12	20/1	39	B	40	100/3	3	SP	-	9720	
1	1080	EXISTING CIRCUIT	R	12	20/1	41	C	42	100/3	3	SP	-	10260	
1	900	EXISTING CIRCUIT	R	12	20/1	43	A	44				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	45	B	46				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	47	C	48				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	49	A	50				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	51	B	52				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	53	C	54				SPACE		
1	900	EXISTING CIRCUIT	R	12	20/1	55	A	56				SPACE		
		SPACE				57	B	58				SPACE		
		SPACE				59	C	60				SPACE		
		SPACE				61	A	62				SPACE		
		SPACE				63	B	64				SPACE		
		SPACE				65	C	66				SPACE		
		SPACE				67	A	68				SPACE		
		SPACE				69	B	70				SPACE		
		SPACE				71	C	72				SPACE		
		SPACE				73	A	74				SPACE		
		SPACE				75	B	76				SPACE		
		SPACE				77	C	78				SPACE		
		SPACE				79	A	80				SPACE		
		SPACE				81	B	82				SPACE		
		SPACE				83	C	84				SPACE		
	26,460	Subtotal										Subtotal	35,165	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	30,240		20,120	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	1,400	100%	1,400	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	1,525	100%	1,525		(SP) Sub Panel	28,460	100%	28,460

Total Connected... 61,625 VA = #DIV/0! AMPS
Total Load... 51,505 VA = #DIV/0! AMPS

Location of Panel:

Panelboard LCP

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB AMP MCB
X MLO 100 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT		12	20/1	1	A	2	30/2	10	M	EXISTING CIRCUIT	2400	1
1	360	EXISTING CIRCUIT		12	20/1	3	B	4	30/2	10	-	-	240	
1	900	EXISTING CIRCUIT		12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	1500	1
1	900	EXISTING CIRCUIT		12	20/1	7	A	8	20/1	12	F	EXISTING CIRCUIT	144	1
1	540	EXISTING CIRCUIT		12	20/1	9	B	10	20/1	12	H	EXISTING CIRCUIT	600	1
1	720	EXISTING CIRCUIT		12	20/1	11	C	12				SPARE		
		SPARE				13	A	14	20/1	12	R	EXISTING CIRCUIT	180	1
		SPARE				15	B	16	20/1	12	M	EXISTING CIRCUIT	1000	1
		SPARE				17	C	18	20/1	12	F	**EF-15**	**700**	
1	500	EXISTING CIRCUIT		12	20/1	19	A	20	20/1	12	F	**EF-14**	**700**	
1	1080	EXISTING CIRCUIT		12	20/1	21	B	22	20/1	12	F	**EF-13**	**700**	
		SHUNT TRIP		12	20/1	23	C	24	20/1	12	F	**EF-12**	**1660**	
		SHUNT TRIP		12	20/1	25	A	26	20/1	12	F	**EF-11**	**1176**	
		SPARE				27	B	28	20/1	12	M	EXISTING CIRCUIT	200	1
		SPARE				29	C	30				SHUNT TRIP		
		SPARE				31	A	32	20/1	12	R	EXISTING CIRCUIT	720	1
		SPARE				33	B	34	20/1	12	R	EXISTING CIRCUIT	500	1
		SPARE				35	C	36	20/1	12	R	EXISTING CIRCUIT	500	1
1	900	EXISTING CIRCUIT	R	12	20/1	37	A	38				SPARE		
1	900	EXISTING CIRCUIT	R	12	20/1	39	B	40				SPARE		
1	900	EXISTING CIRCUIT	R	12	20/1	41	C	42				SPARE		
	8,420	Subtotal										Subtotal	12,920	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	6,100		6,100	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	600	100%	600		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	5,080	100%	5,080	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	3,600	100%	3,600		(SP) Sub Panel	0	100%	0

Total Connected Load = 15,380 VA = 42.7 AMPS
Total Load (Diversified)= 15,380 VA = 42.7 AMPS

Location of Panel:

VLK|ARCHITECTS

ARCHITECT

VLK Architects
20445 State Hwy 249, Suite 350
Houston, Texas 77070
Main Phone: 281.671.2300
www.vlkarchitects.com

M.E.P. ENGINEER

DBR Engineering Consultants
9990 Richmond Ave, South Building
Suite 300
Houston, Texas 77042
Main Phone: 713.914.0888
www.dbrinc.com

CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

WILLIAM MEISTER
101184
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No. Revision Date

Director
Approver
Designer
Designer
Proj. Arch.
DBR

Drawn By
DBR
Quality Control

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - ELECTRICAL SCHEDULES

SHEET NO.
E27.11

DBR
713.914.0888 p
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244

EK	RM/TD	LB/MS	TN/JL	LG/SS

Panelboard HA1

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	40	EXISTING LOAD		12	20/1	1	A	2				SPARE		
1	3300	EXISTING LOAD		12	20/1	3	B	4				SPARE		
1	3260	EXISTING LOAD				5	C	6				SPARE		
1	2200	EXISTING LOAD				7	A	8	15/3	12	WH	EXISTING LOAD	2000	1
1	1570	EXISTING LOAD				9	B	10	-		WH	-	2000	-
1	2640	EXISTING LOAD				11	C	12	-		WH	-	2000	-
2	**2105**	**AHU-2 (5 HP)**	**C**	**12**	**15/3**	13	A	14	**15/3**	**12**	**C**	**OAHU-13 (2 HP)**	**942**	**2**
-	**2105**	**-**	**C**	**12**	**15/3**	15	B	16	**-**	**12**	**C**	**-**	**942**	**-**
-	**2105**	**-**	**C**	**12**	**15/3**	17	C	18	**-**	**12**	**C**	**-**	**942**	**-**
		SPACE				19	A	20	15/3	12		SPARE		
		SPACE				21	B	22	-			SPARE		
		SPACE				23	C	24	-			SPARE		
		SPACE				25	A	26	100/3	3	SP	EXISTING LOAD		1
		SPACE				27	B	28	-	-	SP	-		-
		SPACE				29	C	30	-	-	SP	-		-
		SPACE				31	A	32						
		SPACE				33	B	34						
		SPACE				35	C	36						
		SPACE				37	A	38	70/3	4	SP	EXISTING LOAD	17857	1
		SPACE				39	B	40	-	-	SP	-	19947	-
		SPACE				41	C	42	-	-	SP	-	14437	-
	19,325	Subtotal										Subtotal	61,067	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	9,141	100%	9,141	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	6,000	100%	6,000
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	52,241	100%	52,241

Total Connected Load = 67,382 VA = 81.1 AMPS
Total Load (Diversified)= 67,382 VA = 81.1 AMPS

Location of Panel:

Panelboard HB1

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	2670	EXISTING LOAD	L	12	20/1	1	A	2	**20/3**	**12**	**C**	**AHU-8 (5 HP)**	**2105**	**2**
1	2970	EXISTING LOAD	L	12	20/1	3	B	4	**-**	**-**	**C**	**-**	**2105**	**-**
1	2970	EXISTING LOAD	L	12	20/1	5	C	6	**-**	**-**	**C**	**-**	**2105**	**-**
1	3220	EXISTING LOAD	L	12	20/1	7	A	8	**60/3**	**6**	**C**	**AHU-6 (20 HP)**	**7480**	**2**
1	2530	EXISTING LOAD	L	12	20/1	9	B	10	**-**	**-**	**C**	**-**	**7480**	**-**
1	2890	EXISTING LOAD	L	12	20/1	11	C	12	**-**	**-**	**C**	**-**	**7480**	**-**
1	2970	EXISTING LOAD	L	12	20/1	13	A	14	**40/3**		**C**	**AHU-5 (15 HP)**	**5817**	**2**
1	2970	EXISTING LOAD	L	12	20/1	15	B	16	**-**	**-**	**C**	**-**	**5817**	**-**
		SPARE		12	20/1	17	C	18	**-**	**-**	**C**	**-**	**5817**	**-**
		SPARE		12	20/1	19	A	20				SPACE		
		SPARE				21	B	22				SPACE		
		SPACE				23	C	24				SPACE		
		SPACE				25	A	26				SPACE		
		SPACE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
		SPACE				35	C	36				SPACE		
		SPACE				37	A	38	100/3	3	SP	EXISTING LOAD	17450	1
		SPACE				39	B	40	-	3	SP	-	26205	-
		SPACE				41	C	42	-	3	SP	-	22920	-
	23,190	Subtotal										Subtotal	112,781	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	23,190	125%	28,988
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	46,206	100%	46,206	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	66,575	100%	66,575

Total Connected Load = 135,971 VA = 163.6 AMPS
Total Load (Diversified)= 141,769 VA = 170.6 AMPS

Location of Panel:

Panelboard HC1

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	50	EXISTING LOAD		12	20/1	1	A	2	**20/3**	**12**		**OAHU-16 (7.5 HP)**	**3047**	**2**
1	2670	EXISTING LOAD		12	20/1	3	B	4	**-**	**12**		**-**	**3047**	**-**
1	2970	EXISTING LOAD		12	20/1	5	C	6	**-**	**12**		**-**	**3047**	**-**
1	2970	EXISTING LOAD		12	20/1	7	A	8	**40/3**	**10**		**AHU-10 (15 HP)**	**5817**	**2**
1	2340	EXISTING LOAD		12	20/1	9	B	10	**-**	**10**		**-**	**5817**	**-**
1	2010	EXISTING LOAD		12	20/1	11	C	12	**-**	**10**		**-**	**5817**	**-**
1	2090	EXISTING LOAD		12	20/1	13	A	14	15/1	12		EXISTING LOAD	3000	1
1	2200	EXISTING LOAD		12	20/1	15	B	16	15/1	12		EXISTING LOAD	3000	1
1	2420	EXISTING LOAD		12	20/1	17	C	18				SPACE		
1	1050	EXISTING LOAD		12	20/1	19	A	20				SPACE		
1	3800	EXISTING LOAD		12	20/1	21	B	22				SPACE		
		SPARE				23	C	24				SPACE		
		SPARE				25	A	26				SPACE		
		SPARE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
1	200	EXISTING LOAD		12	20/1	35	C	36				SPACE		
2	**1000**	**DOWNLIGHTS**		**10**	**20/1**	37	A	38	100/3	3	SP	EXISTING LOAD	18920	1
1	2640	EXISTING LOAD		8	30/2	39	B	40	100/3	3	SP	EXISTING LOAD	19945	1
1	2640	-		8	-	41	C	42	100/3	3	SP	EXISTING LOAD	18900	1
	31,050	Subtotal										Subtotal	90,357	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	57,765	100%	57,765

Total Connected Load = 57,765 VA = 69.5 AMPS
Total Load (Diversified)= 57,765 VA = 69.5 AMPS

Location of Panel:

PANEL SCHEDULE GENERAL NOTES:

A. ALL CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY AVAILABILITY OF BREAKERS AFTER DEMOLITION. CONTRACTOR SHALL UTILIZE EXISTING SPARE BREAKERS. PROVIDE ALTERNATE PRICING FOR ADDITIONAL 100A PANEL IF REQUIRED DUE TO LACK OF SPACE.

PANEL SCHEDULE NOTES:

1. EXISTING LOAD SHALL REMAIN.
2. CONNECT NEW BRANCH CIRCUIT TO EXISTING SPARE BREAKER.
3. REPLACE EXISTING SPACE WITH NEW BREAKER INDICATED.
4. REPLACE EXISTING BREAKER WITH NEW BREAKER INDICATED.

Panelboard HA2

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB AMP MCB
MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	80	EXISTING LOAD	L	12	20/1	1	A	2	**15/3**	**12**	**C**	**AHU-4 (5 HP)**	**2105**	**2**
1	2200	EXISTING LOAD	L	12	20/1	3	B	4	**-**	**-**	**C**	**-**	**2105**	**-**
1	2510	EXISTING LOAD	L	12	20/1	5	C	6	**-**	**-**	**C**	**-**	**2105**	**-**
1	2200	EXISTING LOAD	L	12	20/1	7	A	8	**15/3**	**12**	**C**	**AHU-3 (2 HP)**	**942**	**2**
1	2200	EXISTING LOAD	L	12	20/1	9	B	10	**-**	**-**	**C**	**-**	**942**	**-**
1	2200	EXISTING LOAD	L	12	20/1	11	C	12	**-**	**-**	**C**	**-**	**942**	**-**
1	2200	EXISTING LOAD	L	12	20/1	13	A	14	20/1	12		EXISTING LOAD		
1	2200	EXISTING LOAD	L	12	20/1	15	B	16	20/1	12		EXISTING LOAD		
1	2200	EXISTING LOAD	L	12	20/1	17	C	18	20/1	12		EXISTING LOAD		
1	2200	EXISTING LOAD	L	12	20/1	19	A	20				SPACE		
2	**1760**	**DOWNLIGHTS**	**L**	**12**	**20/1**	21	B	22				SPACE		
		SPARE				23	C	24				SPACE		
		SPARE				25	A	26				SPACE		
		SPARE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
		SPARE	-	10	30/2	35	C	36				SPACE		
		SPARE	-	-	-	37	A	38				SPACE		
		SPACE				39	B	40				SPACE		
		SPACE				41	C	42				SPACE		
	21,950	Subtotal										Subtotal	9,141	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	21,950	125%	27,438
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	9,141	100%	9,141	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 31,091 VA = 37.4 AMPS
Total Load (Diversified)= 36,579 VA = 44.0 AMPS

Location of Panel:

Panelboard HB2

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	2090	EXISTING LOAD	L	12	20/1	1	A	2	20/1	12		EXISTING LOAD	150	
1	2500	EXISTING LOAD	L	12	20/1	3	B	4	**20/1**	**12**		**DOWNLIGHTS**	**875**	**2**
1	2520	EXISTING LOAD	L	12	20/1	5	C	6				SPARE		
1	2010	EXISTING LOAD	L	12	20/1	7	A	8	15/3	12		EXISTING LOAD	2667	1
1	1980	EXISTING LOAD	L	12	20/1	9	B	10	-	-		-	2667	-
1	1260	EXISTING LOAD	L	12	20/1	11	C	12	-	-		-	2667	-
1	2780	EXISTING LOAD	L	12	20/1	13	A	14	**30/3**	**10**	**C**	**AHU-7 (10 HP)**	**3878**	**2**
1	2970	EXISTING LOAD	L	12	20/1	15	B	16	**-**	**-**	**C**	**-**	**3878**	**-**
1	2970	EXISTING LOAD	L	12	20/1	17	C	18	**-**	**-**	**C**	**-**	**3878**	**-**
1	3100	EXISTING LOAD	L	12	20/1	19	A	20	**30/3**	**10**	**C**	**OAHU-14 (10 HP)**	**3878**	**2**
1	1430	EXISTING LOAD	L	12	20/1	21	B	22	**-**	**-**	**C**	**-**	**3878**	**-**
		SPARE				23	C	24	**-**	**-**	**C**	**-**	**3878**	**-**
2	**3047**	**AHU-9 (7.5 HP)**	**C**	**12**	**20/3**	25	A	26	**15/3**	**12**	**C**	**OAHU-15 (2 HP)**	**942**	**2**
-	**3047**	**-**	**C**	**-**	**-**	27	B	28	**-**	**-**	**C**	**-**	**942**	**-**
-	**3047**	**-**	**C**	**-**	**-**	29	C	30	**-**	**-**	**C**	**-**	**942**	**-**
1		EXISTING LOAD		12	20/1	31	A	32				SPACE		
1		EXISTING LOAD		12	20/2	33	B	34				SPACE		
1		EXISTING LOAD		12	20/2	35	C	36				SPACE		
		SPACE				37	A	38	70/3	4	SP	EXISTING LOAD	17640	1
		SPACE				39	B	40	-	-	SP	EXISTING LOAD	18860	1
		SPACE				41	C	42	-	-	SP	EXISTING LOAD	15650	1
	34,751	Subtotal										Subtotal	87,270	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	25,610	125%	32,013
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	35,235	100%	35,235	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	52,150	100%	52,150

Total Connected Load = 112,995 VA = 136.0 AMPS
Total Load (Diversified)= 119,398 VA = 143.7 AMPS

Location of Panel:

Panelboard HC2

18,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	60	EXISTING LOAD	L	12	20/1	1	A	2	20/1	12		SPARE		
1	2970	EXISTING LOAD	L	12	20/1	3	B	4	20/1	12	WH	EXISTING LOAD	3000	1
1	2970	EXISTING LOAD	L	12	20/1	5	C	6				SPARE		
1	2670	EXISTING LOAD	L	12	20/1	7	A	8	**30/3**	**10**	**C**	**AHU-12 (10 HP)**	**3878**	**2**
1	2420	EXISTING LOAD	L	12	20/1	9	B	10	**30/3**	**10**	**C**	**-**	**3878**	**-**
1	2090	EXISTING LOAD	L	12	20/1	11	C	12	**30/3**	**10**	**C**	**-**	**3878**	**-**
1	2310	EXISTING LOAD	L	12	20/1	13	A	14	**30/3**	**10**	**C**	**AHU-11 (10 HP)**	**3878**	**2**
1	2970	EXISTING LOAD	L	12	20/1	15	B	16	**30/3**	**10**	**C**	**-**	**3878**	**-**
1	2970	EXISTING LOAD	L	12	20/1	17	C	18	**30/3**	**10**	**C**	**-**	**3878**	**-**
1	2670	EXISTING LOAD	L	12	20/1	19	A	20				SPACE		
		SPARE				21	B	22				SPACE		
		SPARE				23	C	24				SPACE		
		SPARE				25	A	26				SPACE		
		SPACE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
		SPACE				35	C	36				SPACE		
2	**1625**	**WALL PACKS**	**EL**	**10**	**20/1**	37	A	38	100/3	3	SP	EXISTING LOAD	16200	1
1	1200	EXISTING LOAD	EL	10	20/2	39	B	40	-	3	SP	EXISTING LOAD	19280	1
1	1200	-	EL	10	-	41	C	42	-	3	SP	EXISTING LOAD	19240	1
	28,125	Subtotal										Subtotal	80,988	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	24,100	125%	30,125
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	4,025	125%	5,031
220.60	(C) Cooling	23,268	100%	23,268	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	3,000	100%	3,000
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	54,720	100%	54,720

Total Connected Load = 109,113 VA = 131.3 AMPS
Total Load (Diversified)= 116,144 VA = 139.8 AMPS

Location of Panel:

Panelboard HCP

18,000 AIC...
X Existing
New

480/277 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	30	EXISTING CIRCUIT	L	12	20/1	1	A	2	50/3	8	SP	EXISTING CIRCUIT	5484	1
1	2100	EXISTING CIRCUIT	L	12	20/1	3	B	4	50/3	8	SP	-	5500	-
1	2090	EXISTING CIRCUIT	L	12	20/1	5	C	6	50/3	8	SP	-	3780	-
1	2000	EXISTING CIRCUIT	L	12	20/1	7	A	8	15/3	12	MT	EXISTING CIRCUIT	2604	1
1	2000	EXISTING CIRCUIT	MT	12	15/3	9	B	10	15/3	12	MT	-	2604	-
-	2000	-	MT	12	15/3	11	C	12	15/3	12	MT	-	2604	-
-	2000	-	MT	12	15/3	13	A	14	**15/3**	**12**	**C**	**AHU-1 (5 HP)**	**3000**	**2**
1	2604	EXISTING CIRCUIT		12	15/3	15	B	16	**15/3**	**12**	**C**	**-**	**3000**	**-**
1	2604	-		12	15/3	17	C	18	**15/3**	**12**	**C**	**-**	**3000**	**-**
1	2604	-		12	15/3	19	A	20	**15/3**	**12**	**F**	**KEF-2 (2HP)**	**942**	**2**
1	1500	EXISTING CIRCUIT	L	12	20/1	21	B	22	**15/3**	**12**	**F**	**-**	**942**	**-**
1	1500	EXISTING CIRCUIT	L	12	20/1	23	C	24	**15/3**	**12**	**F**	**-**	**942**	**-**
2	**942**	**KEF-1 (2HP)**	**F**	**12**	**15/3**	25	A	26	**15/3**	**12**	**F**	**KSF-2 (2HP)**	**388**	**2**
-	**942**	**-**	**F**	**12**	**15/3**	27	B	28	**15/3**	**12**	**F**	**-**	**388**	**-**
-	**942**	**-**	**F**	**12**	**15/3**	29	C	30	**15/3**	**12**	**F**	**-**	**388**	**-**
2	**388**	**KSF-1 (2HP)**	**F**	**12**	**15/3**	31	A	32	15/3	12	WH	EXISTING CIRCUIT	2000	1
-	**388**	**-**	**F**	**12**	**15/3**	33	B	34	15/3	12	WH	-	2000	-
-	**388**	**-**	**F**	**12**	**15/3**	35	C	36	15/3	12	WH	-	2000	-
1	1000	EXISTING CIRCUIT	L	12	20/1	37	A	38	90/3	3	MT	EXISTING CIRCUIT	2000	1
1	1000	EXISTING CIRCUIT	L	12	20/2	39	B	40	90/3	3	MT	-	2000	-
-	1000	-	L	12	20/2	41	C	42	90/3	3	MT	-	200	-
	30,022	Subtotal										Subtotal	45,766	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	12,220	125%	15,275
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	9,000	100%	9,000	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	6,000	100%	6,000
220.60	(F) Fans	7,980	100%	7,980	220.50	(MT) Lrg. Mot.	18,012	125%	22,515
	(M) Misc.	0	100%	0		(SP) Sub Panel	14,764	100%	14,764

Total Connected... 67,976 VA = #DIV/0! AMPS
Total Load... 75,534 VA = #DIV/0! AMPS

Location of Panel:

Panelboard LSEH3

18,000 AIC...
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB XXX AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1		SPD		10	30/3	1	A	2	20/1	12	L	EXISTING CIRCUIT		1
1		-		10	30/3	3	B	4	20/1	12	L	EXISTING CIRCUIT		1
1		-		10	30/3	5	C	6	**20/1**	**12**	**L**	**EM. WALL PACKS**		**2**
		SPARE				7	A	8				SPARE		
		SPARE				9	B	10				SPACE		
		SPACE				11	C	12				SPACE		
		SPACE				13	A	14				SPACE		
		SPACE				15	B	16				SPACE		
		SPACE				17	C	18				SPACE		
		SPACE				19	A	20				SPACE		
		SPACE				21	B	22				SPACE		
		SPACE				23	C	24				SPACE		
		SPACE				25	A	26				SPACE		
		SPACE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
		SPACE				35	C	36				SPACE		
		SPACE				37	A	38				SPACE		
		SPACE				39	B	40				SPACE		
		SPACE				41	C	42				SPACE		
	0	Subtotal										Subtotal	0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected... 0 VA = 0.0 AMPS
Total Load... 0 VA = 0.0 AMPS

Location of Panel:

Panelboard LSEH2

18,000 AIC...
X Existing
New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

MCB XXX AMP MCB
X MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1		SPD		10	30/2	1	A	2	20/1	12	L	EXISTING CIRCUITS		1
1		-		10	30/2	3	B	4	20/1	12	L	EXISTING CIRCUITS		1
		SPARE		12	20/1	5	C	6	**20/1**	**12**	**L**	**EM. WALL PACKS**	**1000**	**2**
		SPARE		12	20/1	7	A	8				SPARE		
		SPACE				9	B	10				SPARE		
		SPACE				11	C	12				SPACE		
		SPACE				13	A	14				SPACE		
		SPACE				15	B	16				SPACE		
		SPACE				17	C	18				SPACE		
		SPACE				19	A	20				SPACE		
		SPACE				21	B	22				SPACE		
		SPACE				23	C	24				SPACE		
		SPACE				25	A	26				SPACE		
		SPACE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
		SPACE				35	C	36				SPACE		
		SPACE				37	A	38				SPACE		
		SPACE				39	B	40				SPACE		
		SPACE				41	C	42				SPACE		
	0	Subtotal										Subtotal	1,000	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	1,000	125%	1,250
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected... 1,000 VA = 1.2 AMPS
Total Load... 1,250 VA = 1.5 AMPS

Location of Panel:

713.914.0888 p
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244

EK	RM/TD	LB/MS	TN/JL	LG/SS

VLK | ARCHITECTS

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

WILLIAM MEISTER
101184
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - ELECTRICAL SCHEDULES

SHEET NO.
E27.12

3-PHASE, 4-WIRE FEEDER SCHEDULE

COPPER				ALUMINUM			
RATING	SETS	CONDUCTOR SIZE	CONDUIT	RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	4#10, 1#10 G.	3/4"	30A	N/A	N/A	N/A
40A	1	4#8, 1#10 G.	1"	40A	N/A	N/A	N/A
50A	1	4#8, 1#10 G.	1"	50A	N/A	N/A	N/A
60A	1	4#6, 1#10 G.	1"	60A	N/A	N/A	N/A
70A	1	4#4, 1#8 G.	1 1/4"	70A	N/A	N/A	N/A
80A	1	4#4, 1#8 G.	1 1/4"	80A	N/A	N/A	N/A
90A	1	4#3, 1#8 G.	1 1/4"	90A	N/A	N/A	N/A
100A	1	4#3, 1#8 G.	1 1/4"	100A	N/A	N/A	N/A
125A	1	4#1, 1#6 G.	1 1/2"	125A	N/A	N/A	N/A
150A	1	4#1/0, 1#6 G.	1 1/2"	150A	N/A	N/A	N/A
175A	1	4#2/0, 1#6 G.	2"	175A	N/A	N/A	N/A
200A	1	4#3/0, 1#6 G.	2"	200A	1	4#250, 1#4 G.	2 1/2"
225A	1	4#4/0, 1#4 G.	2 1/2"	225A	1	4#300, 1#2 G.	3"
250A	1	4#250, 1#4 G.	2 1/2"	250A	1	4#350, 1#2 G.	3"
300A	1	4#350, 1#4 G.	3"	300A	1	4#500, 1#2 G.	4"
350A	1	4#500, 1#3 G.	3 1/2"	350A	2	4#4/0, 1#1 G.	2 1/2"
400A	1	4#600, 1#3 G.	4"	400A	2	4#250, 1#1 G.	2 1/2"
450A	2	4#4/0, 1#2 G.	2 1/2"	450A	2	4#300, 1#1/0 G.	3"
500A	2	4#250, 1#2G.	2 1/2"	500A	2	4#350, 1#1/0 G.	3"
600A	2	4#350, 1#1G.	3"	600A	2	4#500, 1#2/0 G.	3"
700A	2	4#500, 1#1/0G.	4"	700A	3	4#350, 1#3/0 G.	3"
800A	2	4#600, 1#1/0G.	4"	800A	3	4#400, 1#3/0 G.	3"
1000A	3	4#500, 1#2/0G.	4"	1000A	4	4#350, 1#4/0 G.	4"
1200A	4	4#350, 1#3/0G.	3"	1200A	4	4#500, 1#250 G.	4"
1600A	4	4#600, 1#4/0G.	4"	1600A	5	4#750, 1#350 G.	4"
	5	4#500, 1#4/0G.	4"				
2000A	5	4#600, 1#250G.	4"	2000A	6	4#750, 1#400 G.	4"
	6	4#500, 1#250G.	4"				
2500A	6	4#600, 1#350G.	4"	2500A	7	4#750, 1#600 G.	4"
	7	4#500, 1#350G.	4"				
3000A	8	4#500, 1#400G.	4"	3000A	8	4#750, 1#600 G.	4"
3500A	9	4#600, 1#500G.	4"	3500A	10	4#750, 1#750 G.	4"
	10	4#500, 1#500G.	4"				
4000A	10	4#600, 1#500G.	4"	4000A	11	4#750, 1#750 G.	4"
	11	4#500, 1#500G.	4"				
5000A	12	4#600, 1#750G.	4"	5000A	13	4#750, 2#600 G.	5"
	14	4#500, 1#750G.	4"				

1. ALUMINUM CONDUCTORS SHALL BE COMPRESSION TYPE CONDUCTORS AND SHALL USE PENETROX WITH COMPRESSION TERMINATION FITTINGS.
2. ALUMINUM FEEDERS ARE NOT APPROVED FOR USE ON THE FOLLOWING:

- ALL HVAC EQUIPMENT
- TRANSFORMER SECONDARY
- ELEVATORS
- VARIABLE FREQUENCY DRIVE

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				ALUMINUM			
RATING	SETS	CONDUCTOR SIZE	CONDUIT	RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	3#10, 1#10 G.	3/4"	30A	N/A	N/A	N/A
40A	1	3#8, 1#10 G.	3/4"	40A	N/A	N/A	N/A
50A	1	3#8, 1#10 G.	3/4"	50A	N/A	N/A	N/A
60A	1	3#6, 1#10 G.	1"	60A	N/A	N/A	N/A
70A	1	3#4, 1#8 G.	1"	70A	N/A	N/A	N/A
80A	1	3#4, 1#8 G.	1"	80A	N/A	N/A	N/A
90A	1	3#3, 1#8 G.	1 1/4"	90A	N/A	N/A	N/A
100A	1	3#3, 1#8 G.	1 1/4"	100A	N/A	N/A	N/A
125A	1	3#1, 1#6 G.	1 1/4"	125A	N/A	N/A	N/A
150A	1	3#1/0, 1#6 G.	1 1/2"	150A	N/A	N/A	N/A
175A	1	3#2/0, 1#6 G.	1 1/2"	175A	N/A	N/A	N/A
200A	1	3#3/0, 1#6 G.	2"	200A	1	3#250, 1#4 G.	2"
225A	1	3#4/0, 1#4 G.	2"	225A	1	3#300, 1#2 G.	2-1/2"
250A	1	3#250, 1#4 G.	2 1/2"	250A	1	3#350, 1#2 G.	2 1/2"
300A	1	3#350, 1#4 G.	2 1/2"	300A	1	3#500, 1#2 G.	3"
350A	1	3#500, 1#3 G.	3"	350A	2	3#4/0, 1#1 G.	2"
400A	1	3#600, 1#3 G.	3 1/2"	400A	2	3#250, 1#1 G.	2 1/2"
450A	2	3#4/0, 1#2 G.	2"	450A	2	3#300, 1#1/0 G.	2 1/2"
500A	2	3#250, 1#2G.	2 1/2"	500A	2	3#350, 1#1/0 G.	2 1/2"
600A	2	3#350, 1#1G.	3"	600A	2	3#500, 1#2/0 G.	3"
700A	2	3#500, 1#1/0G.	3 1/2"	700A	3	3#350, 1#3/0 G.	2 1/2"
800A	2	3#600, 1#1/0G.	3 1/2"	800A	3	3#400, 1#3/0 G.	3"
1000A	3	3#500, 1#2/0G.	3"	1000A	4	3#350, 1#4/0 G.	3"
1200A	4	3#350, 1#3/0G.	3"	1200A	4	3#500, 1#250 G.	3"
1600A	4	3#600, 1#4/0G.	3 1/2"	1600A	5	3#750, 1#350 G.	3 1/2"
	5	3#500, 1#4/0G.	3"				
2000A	5	3#600, 1#250G.	3 1/2"	2000A	6	3#750, 1#400 G.	3 1/2"
	6	3#500, 1#250G.	3"				
2500A	6	3#600, 1#350G.	3 1/2"	2500A	7	3#750, 1#600 G.	4"
	7	3#500, 1#350G.	3 1/2"				
3000A	8	3#500, 1#400G.	3 1/2"	3000A	8	3#750, 1#600 G.	4"
3500A	9	3#600, 1#500G.	3 1/2"	3500A	10	3#750, 1#750 G.	4"
	10	3#500, 1#500G.	3 1/2"				
4000A	10	3#600, 1#500G.	3 1/2"	4000A	11	3#750, 1#750 G.	4"
	11	3#500, 1#500G.	3 1/2"				

1. ALUMINUM CONDUCTORS SHALL BE COMPRESSION TYPE CONDUCTORS AND SHALL USE PENETROX WITH COMPRESSION TERMINATION FITTINGS
2. ALUMINUM FEEDERS ARE NOT APPROVED FOR USE ON THE FOLLOWING:

- ALL HVAC EQUIPMENT
- TRANSFORMER SECONDARY
- ELEVATORS
- VARIABLE FREQUENCY DRIVE

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.

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

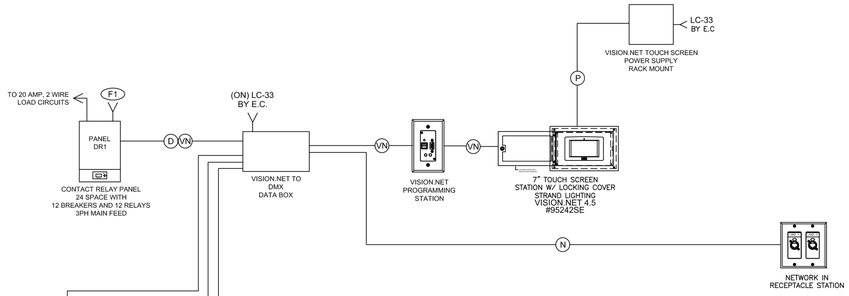
SHEET TITLE

GOFE - ELECTRICAL SCHEDULES

SHEET NO.

E27.13

DBR
713.914.0888 p
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS



NOTES;

1. THIS DRAWING DOES NOT INDICATE THE NUMBER OR SIZE OF CONDUITS REQUIRED, BUT THE SEPARATION OF GROUPS OF WIRES. INTERCONNECTING WIRE AND CONDUIT NOT BY STRAND LIGHTING.
2. WHEREVER CONTROL WIRES SHOWN MUST BE RUN CLOSE TO A.C. CONTROL AND/OR POWER CIRCUITS, THESE CONTROL WIRES MUST BE RUN IN SEPARATE METAL CONDUIT.
3. PROVIDE AN EQUIPMENT GROUND, AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, BETWEEN BUILDING SERVICE ENTRANCE AND THE DIMMER RACK.
4. BACK BOXES OF CONTROL STATIONS MUST BE GROUNDED.
5. SEPARATE NEUTRAL IS REQUIRED FOR EACH CIRCUIT.
6. ALL CONTROL CABLES MUST BE INSTALLED AS DEPICTED IN THE TOPOLOGY SHOWN IN THE SYSTEM RISER DRAWING. IT IS NOT PERMISSIBLE TO HAVE BRANCHING RUNS, STUB RUNS OR "WYE" CABLE TOPOLOGIES.
7. DMX CABLING UTILIZING BELDEN 1583A/1592A FOLLOWS ANSI E1.27-2: STANDARD WIRING PRACTICE FOR PERMANENTLY INSTALLED CONTROL CABLES FOR USE WITH ANSI E1.11 DMX512-A.

WIRES AND CABLES BY E.C.:

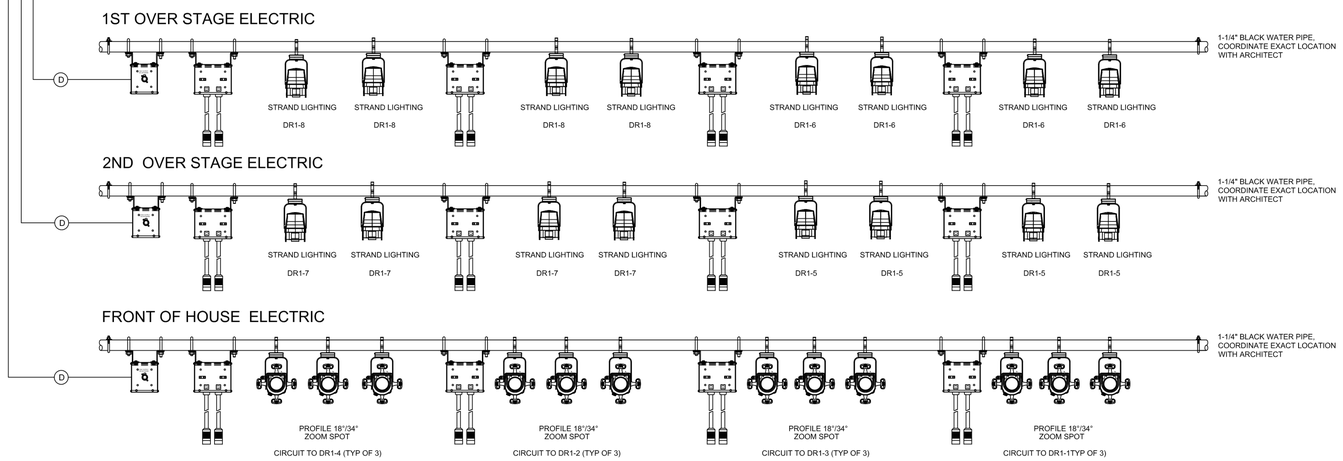
(D) (1) BELDEN #9829 (GRAY JACKET) CABLE - DMX (DO NOT EXCEED 1000 FT.)

(N) (1) BELDEN #1583A (BLUE JACKET) CABLE - NETWORK (DO NOT EXCEED 300 FT.)

(VN) (1) BELDEN #1583A (GREEN JACKET) CABLE - VISION.NET SIGNAL (DO NOT EXCEED 1000 FT.)

RELAY CABINET FEED BY E.C.:

(F1) 3Ø, 60A 4-WIRE WITH GROUND 120/208 VAC, 60Hz FEED CIRCUIT FROM PANEL LC.



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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/4/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - ELECTRICAL DETAILS

SHEET NO.
E27.14

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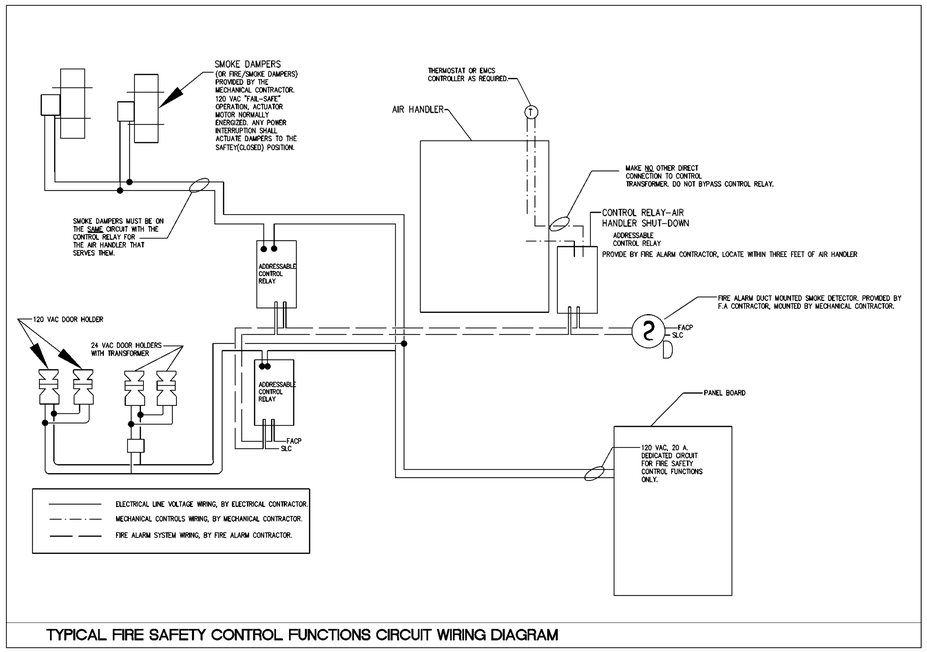
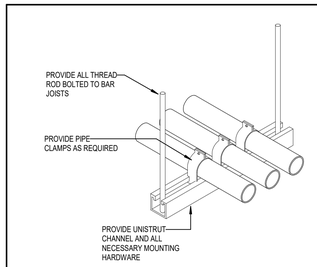
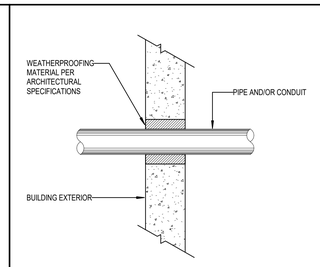
TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TDLB/MS TN/JL LG/SS



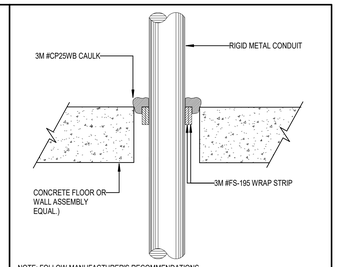
TYPICAL FIRE SAFETY CONTROL FUNCTIONS CIRCUIT WIRING DIAGRAM



1 UNISTRUT CONDUIT DETAIL — NOT TO SCALE — E10003

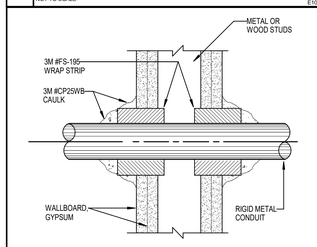


2 PIPE AND/OR CONDUIT PENETRATION — NOT TO SCALE — E10018



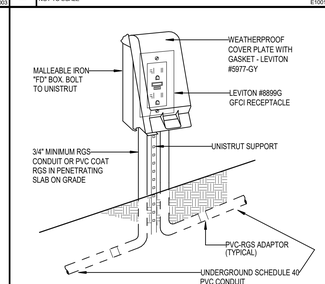
NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

3 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE — NOT TO SCALE — E10015

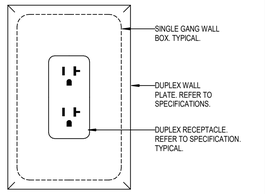


NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION

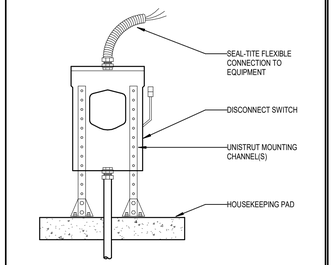
4 2 HR. GYPSUM WALLBOARD PIPE PENETRATION — NOT TO SCALE — E10017



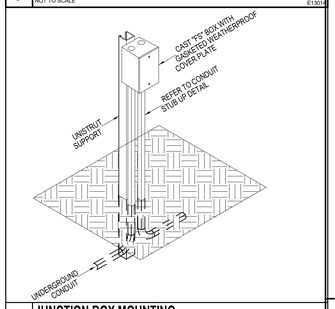
5 RECEPTACLE MOUNTING DETAIL — NOT TO SCALE — E13027



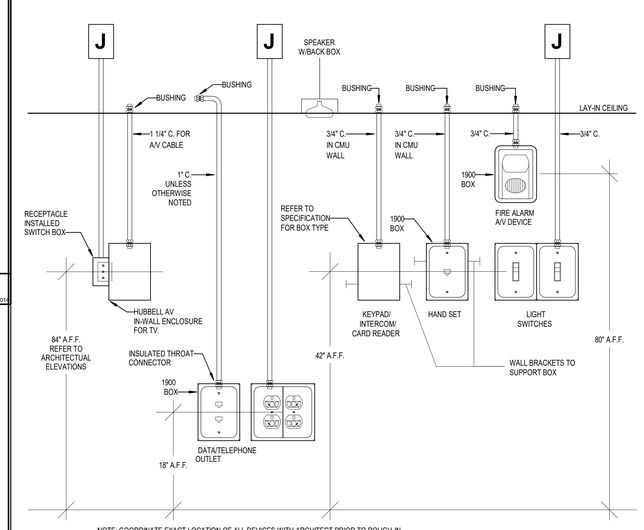
6 TYPICAL RECEPTACLE MOUNTING DETAIL — NOT TO SCALE — E13015



7 DICONNECT SWITCH MOUNTING AT CONCRETE PAD — NOT TO SCALE — E13016

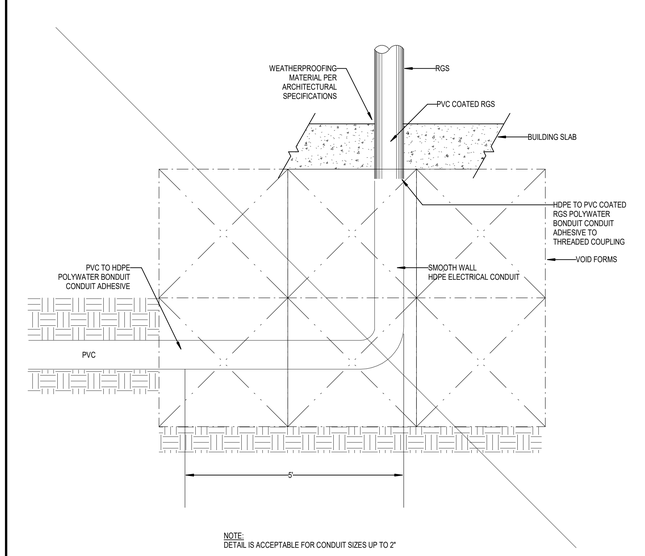


8 JUNCTION BOX MOUNTING — NOT TO SCALE — E10002



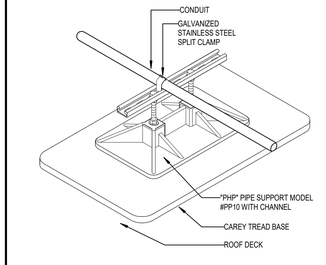
NOTE: COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

9 TYPICAL DEVICE ELEVATIONS — NOT TO SCALE — E11001

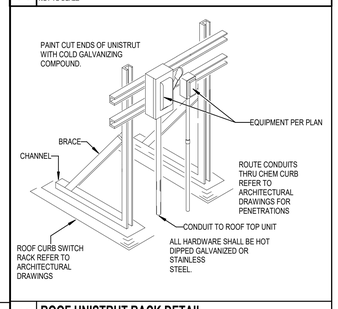


NOTE:
DETAIL IS ACCEPTABLE FOR CONDUIT SIZES UP TO 2"

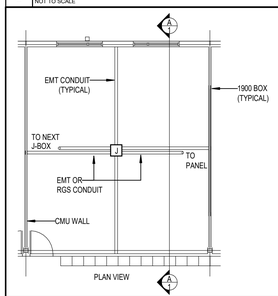
10 CONDUIT STUB-UP DETAIL — NOT TO SCALE — E10021

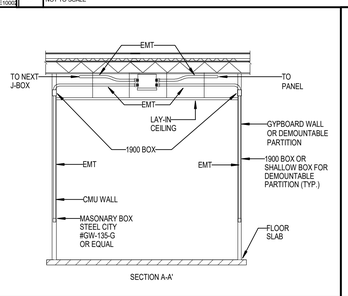


11 ROOF CONDUIT SUPPORT DETAIL — NOT TO SCALE

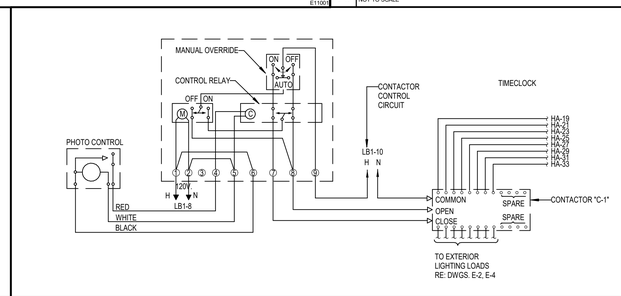


12 ROOF UNISTRUT RACK DETAIL — NOT TO SCALE — E10015

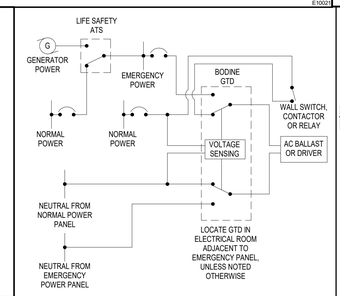




13 TYPICAL RACEWAY CONFIGURATION — NOT TO SCALE

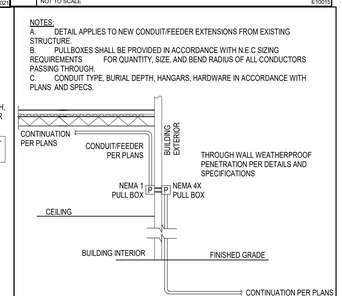


14 EXTERIOR LIGHTING CONTROL — NOT TO SCALE — E14013



15 BODINE 20 AMP GTD DEVICE - UL 1008 — NOT TO SCALE — E14002

NOTES:
A. DETAIL APPLIES TO NEW CONDUIT/FEEDER EXTENSIONS FROM EXISTING STRUCTURE.
B. PULLBOXES SHALL BE PROVIDED IN ACCORDANCE WITH N.E.C SIZING REQUIREMENTS FOR QUANTITY, SIZE, AND BEND RADIUS OF ALL CONDUCTORS PASSING THROUGH.
C. CONDUIT TYPE, BURIAL DEPTH, HANGARS, HARDWARE IN ACCORDANCE WITH PLANS AND SPECS.



16 EXISTING BLDG PENETRATION DETAIL — NOT TO SCALE — E10005

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

WILLIAM MEISTER
101184
LICENSED PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
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DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
AC	AIR COMPRESSOR
AD	AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AUX	AUXILIARY
AV	ACID VENT
AVV	AIR ADMITTANCE VALVE
AW	ACID WASTE

B

B	BOILER
BF	BOTTLE FILLER
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
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
CI	CAST IRON
CIRC	CIRCULATING
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CMU	CONCRETE MASONRY UNIT
CL	CENTERLINE
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CP	CIRCULATING PUMP, CHROME PLATE
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTE	CONNECT TO EXISTING
CW	COLD WATER

D

DBP	DOMESTIC BOOSTER PUMP
DC	DOWNSPOUT COVER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN, DOWNSPOUT NOZZLE
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EL OR ELVA	ELEVATION
ES	EMERGENCY SHOWER
ESP	ELEVATOR SUMP PUMP
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWH	ELECTRIC WATER HEATER

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCV	FLOOR CONTROL VALVE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXSTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FL	FLOW LINES
FLEX	FLEXIBLE
FLR	FLOOR
FP	FIRE PUMP
FS	FLOW SWITCH, FIRE SPRINKLER FLOOR SINK
FT	FOOT, FEET
FW	FORCE WASTE, FILTER WATER

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GI	GREASE INTERCEPTOR
GL	GLOBE VALVE
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GV	GATE VALVE, GREASE VENT
GW	GREASE WASTE
GWH	GAS WATER HEATER

H

HB	HOSE BIBB
HC	HANDICAPPED
HD	HEAD, HUB DRAIN
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HR	HOSE REEL
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
IW	INDIRECT WASTE
IWH	INSTANTANEUOS WATER HEATER

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LT	LINT, LINT TRAP
LVL	LEVEL

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MS	MOP SINK
MSB	MOP SERVICE BASIN
MTD	MOUNTED
MUW	MAKE-UP WATER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE

O

O	MEDICAL OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OS&Y	OPEN STEM AND YOLK

P

PC	PLUMBING CONTRACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNL	PANEL
POU	POINT-OF-USE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYL IDENE FLUORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE REFER
RECIRC	RECIRCULATE
REFR	REFRIGERATOR
RH	ROOF HYDRANT
RM	ROOM
RO	REVERSE OSMOSIS
RPBF	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SHOOK ABSORBER
SC	SCHEDULE
SD	STORM DRAIN, SANITARY DRAIN
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SH	SHOWER
SHI	SOLID HAIR INTERCEPTOR
SI	SOLIDS INTERCEPTOR
SIM	SIMILAR
SK	SINK
SOS	SAND OIL SEPERATOR
SOV	SHUT-OFF VALVE
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK, SOIL STACK, STAINLESS STEEL
SSD	SUBSURFACE DRAIN
STD	STANDARD
STL	STEEL
STR	STRAINER
SV	SANITARY VENT
SW	SOFT WATER

T

TCO	TRAFFIC CLEANOUT
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TDL	TOTAL DEVELOPED LENGTH
TLT	TOILET
TMV	THERMOSTATIC MIXING VALVE
TOB	TOP OF BEAM
TOF	TOP OF FOOTER
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TS	TAMPER SWITCH
TYP	TYPICAL

U

U	URINAL
UF	UNDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
US	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VS	VENT STACK
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WADG	WASTE ANESTHETIC GAS DISPOSAL
WB	WALL BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WMB	WASHER MACHINE BOX
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER, WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WATERTIGHT, WEIGHT

Y

YCO	YARD CLEANOUT
YH	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

- SANITARY DRAIN BELOW FLOOR
- EXISTING SOIL OR WASTE PIPING B.G. - S(E)
- SANITARY DRAIN ABOVE FLOOR
- EXISTING SOIL OR WASTE PIPING A.G. - S(E)
- PIPE DEMO
- SANITARY VENT
- EXISTING VENT PIPING
- GREASE WASTE(ABOVE CEILING)
- GREASE WASTE(BELOW FLOOR)
- STORM DRAIN(ABOVE CEILING)
- STORM DRAIN(BELOW FLOOR)
- OVERFLOW DRAIN(ABOVE CEILING)
- OVERFLOW DRAIN(BELOW FLOOR)
- ACID WASTE(ABOVE CEILING)
- EXISTING ACID WASTE PIPING A.G. - AW(E)
- ACID WASTE(BELOW FLOOR)
- EXISTING ACID WASTE PIPING B.G. - AW(E)
- ACID VENT(ABOVE CEILING OR BELOW FLOOR)
- EXISTING ACID VENT PIPING - AV(E)
- NON-POTABLE - COLD WATER
- COLD WATER - CW
- EXISTING DOMESTIC COLD WATER - CW(E)
- HOT WATER - HW
- EXISTING DOMESTIC HOT WATER - HW(E)
- HOT WATER RECIRCULATION
- EXISTING DOMESTIC HOT WATER RETURN - HWR(E)
- NATURAL GAS (LOW PRESSURE)
- NATURAL GAS (MEDIUM PRESSURE)
- NATURAL GAS (HIGH PRESSURE)
- TEMPERED WATER
- COMPRESSED AIR
- MEDICAL AIR
- MEDICAL OXYGEN
- MEDICAL VACUUM
- FIRE STANDPIPE, FIRE LINE
- WET AUTOMATIC FIRE SPRINKLER
- FORCE WASTE
- TRAP PRIMER
- DRAIN LINE
- SOFT WATER
- LINT WASTE
- LIQUIFIED PETROLEUM GAS
- NITROGEN
- NITROUS OXIDE
- INSTRUMENT AIR
- WASTE ANESTHETIC GAS DISPOSAL

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
- 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
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- WATER SUB-METER
- LOCAL ALARM
- MASTER ALARM
- AREA ALARM

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
- P.X.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
2021	INTERNATIONAL FIRE CODE
2021	INTERNATIONAL FUEL GAS CODE
2021	INTERNATIONAL ENERGY CODE

FIRE SPRINKLER NOTES FOR RENOVATIONS AND FOR ADDING SPRINKLER SYSTEMS IN EXISTING BUILDINGS

1. THE PROJECT IS A RENOVATION AND/OR ADDITION TO AN EXISTING BUILDING. THE SCOPE OF WORK INCLUDES MODIFICATION OF THE EXISTING AND/OR PROVISION OF A NEW AUTOMATIC FIRE SPRINKLER SYSTEM AS INDICATED IN GENERAL ON THE DRAWINGS.
2. ALL FIRE SPRINKLER SYSTEM WORK SHALL BE COORDINATED WITH BOTH THE NEW AND EXISTING CONDITIONS AND PROVIDED ACCORDINGLY.
3. THE SIZES, ROUTING/RE-ROUTING, REMOVAL AND INSTALLATION OF FIRE SPRINKLER MAINS, RISERS, BRANCH LINES, SPRINKLER HEADS, AND DRAIN LINES SHALL BE PROVIDED AS NECESSARY PER THE OVERALL PROJECT SCOPE OF WORK AND THE ABOVE-CEILING CONDITIONS.
4. ANY SPECIFIC AREAS AND/OR CONDITIONS WHICH MAY BE NOTED ON THE DRAWINGS ARE INTENDED ONLY AS AN AID TO THE FIRE PROTECTION CONTRACTOR. ALL INFORMATION MUST BE VERIFIED IN THE FIELD. ALL NECESSARY LOCATIONS FOR SPRINKLER WORK AND ALL PERTINENT CONDITIONS MAY NOT BE NOTED ON THE DRAWINGS.
5. NEW AND EXISTING STRUCTURAL MEMBERS, DUCTWORK AND AIR DEVICES, SUSPENDED HVAC EQUIPMENT, HYDRONIC PIPING, CONDUIT, LIGHT FIXTURES, SUSPENDED ELECTRICAL EQUIPMENT, PLUMBING PIPING, SUSPENDED PLUMBING EQUIPMENT, AND LOW VOLTAGE DEVICES AND SUSPENDED EQUIPMENT ABOVE CEILING SHALL BE ACCOUNTED FOR.
6. NEW AND EXISTING CEILING HEIGHTS, TYPES, AND ASSEMBLIES SHALL BE ACCOUNTED FOR.
7. OTHERWISE FUNCTIONAL AND COMPLIANT EXISTING FIRE SPRINKLER SYSTEM PIPING, SPRINKLER HEADS, HANGERS AND SUPPORTS MAY NEED TO BE REMOVED TO ACCOMMODATE OTHER WORK BEING PROVIDED IN THE AVAILABLE ABOVE-CEILING SPACE. IN SUCH CASES, NEW AND ADDITIONAL SPRINKLER SYSTEM MATERIAL SHALL BE PROVIDED IN ALTERNATIVE LOCATIONS AS NECESSARY. ENSURE THAT PROPER SPRINKLER SPACING, COVERAGE AND PROTECTION IS MAINTAINED/PROVIDED.
8. THE FIRE SPRINKLER SYSTEM PIPE SIZING, ROUTING, AND HYDRAULIC CALCULATIONS SHALL TAKE INTO ACCOUNT THE AVAILABLE ABOVE-CEILING SPACE AND SYSTEM WATER SUPPLY.
9. THE FIRE SPRINKLER SYSTEM WATER SUPPLY SHALL BE VERIFIED AS NECESSARY AND IN ACCORDANCE WITH NFPA 13 REQUIREMENTS.
10. FOR ANY SPRINKLERS INTENDED FOR REMOVAL, RELOCATION, AND RE-USE, THIS SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND LATEST NFPA 13 REQUIREMENTS. SPRINKLERS SHALL NOT BE RE-USED IF TORQUE HAS BEEN APPLIED DIRECTLY TO THE WRENCH BOSS OF THE SPRINKLER DURING ITS REMOVAL. IF REMOVAL OF A SPRINKLER REQUIRES APPLYING TORQUE TO THE SPRINKLER ITSELF, THEN IT SHALL BE CONSIDERED DAMAGED AND A NEW, LIKE SPRINKLER SHALL BE PROVIDED.

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS — WILLIAM MEISTER — 101184 — LICENSED PROFESSIONAL ENGINEER — 11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - PLUMBING SYMBOL LEGEND

SHEET NO.

P20.00

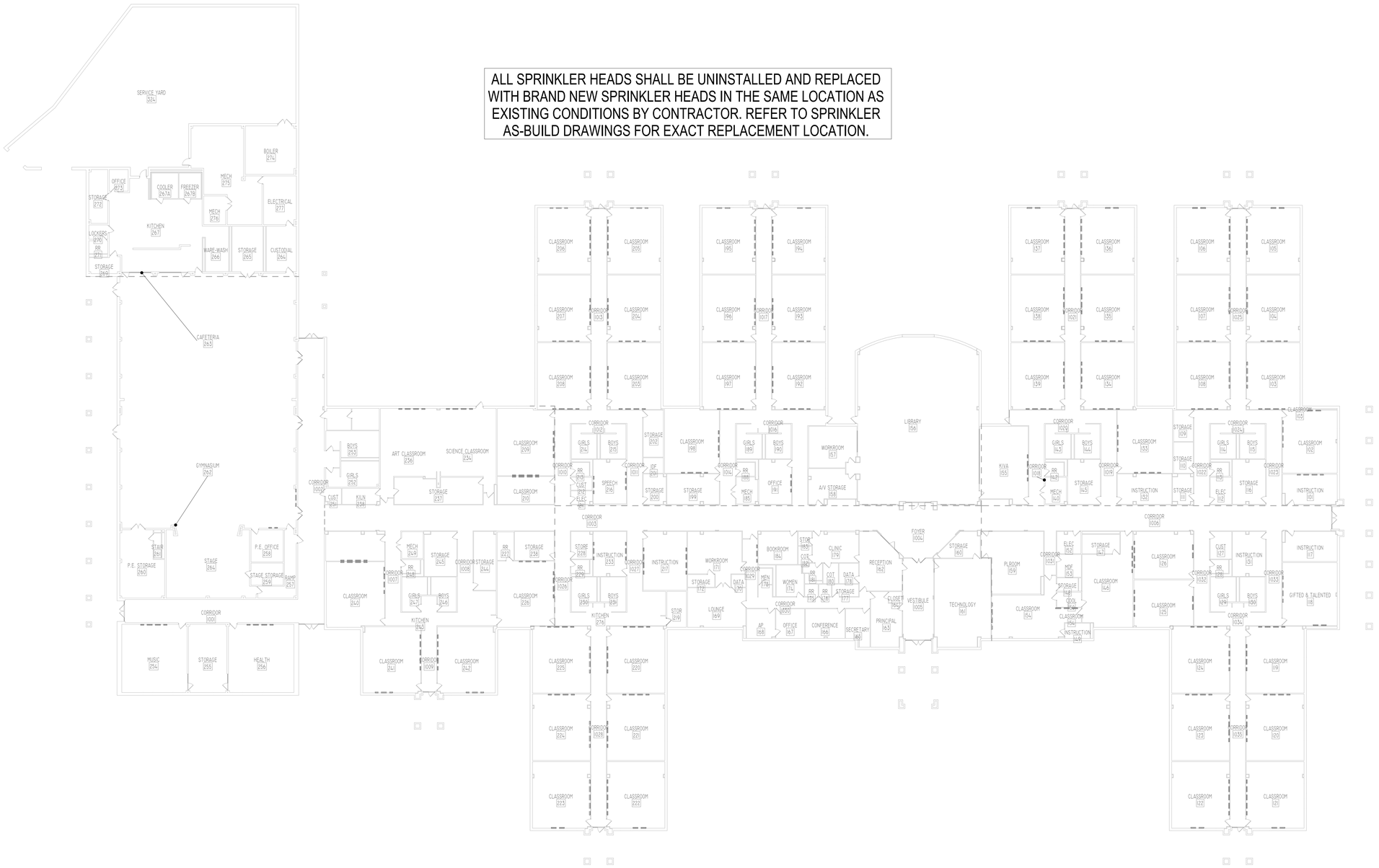
DBR
713.914.0888 p
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK | RM/TDL/BJB/MS | TN/JL | LG/SS

THE SCOPE OF THE FIRE PROTECTION WORK SHALL INCLUDE:

1. ONE FOR ONE REPLACEMENT OF ALL THE EXISTING FIRE SPRINKLER HEADS WITHIN THE BUILDING.
2. PROVIDE NEW SPRINKLER GUARDS WHERE HEADS BEING REPLACED HAVE SUCH GUARDS AND WHERE NEW HEADS WILL BE SUBJECT TO DAMAGE AND REASONABLY REQUIRE SUCH PROTECTION.
3. MAKE PIPING ADJUSTMENTS IF AND AS NECESSARY TO ACCOMMODATE SPRINKLER HEAD REPLACEMENT, CEILING REPLACEMENT, AND TO CORRECT ANY DEFICIENCIES IN SPRINKLER COVERAGE.
4. ALL NEW SPRINKLER HEADS PROVIDED SHALL BE BY JOHNSON CONTROLS INTERNATIONAL PLC, TYCO GROUP. TYPICAL HEADS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO: SERIES TY-B, TY-FRB, EC-8, AND DS-1.
5. ALL SPRINKLERS MUST BE PROVIDED IN ACCORDANCE WITH THEIR LISTING AT WITH TEMPERATURE RATINGS APPROPRIATE FOR THE AMBIENT TEMPERATURE.
6. THE FINAL INSTALLATION SHALL BE COMPLIANT WITH ALL NFPA 13 AND LOCAL AHJ REQUIREMENTS.
7. PROVIDE A HYDROSTATIC TEST OF THE SYSTEM IN ACCORDANCE WITH NFPA 13, CHAPTER 25 AFTER ALL NEW HEADS HAVE BEEN INSTALLED.
8. **SHOP DRAWINGS FROM THE ORIGINAL SYSTEM INSTALLATION ARE PROVIDED FOR REFERENCE AND AS AN AID IN BIDDING.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS INCLUDING CURRENT SPACE LAYOUT AND SPRINKLER TYPES, LOCATIONS, AND QUANTITIES.
9. IN THE COURSE OF THE WORK, THE CONTRACTOR SHALL ASSIST THE OWNER BY IDENTIFYING ANY SPRINKLER SYSTEM ITEMS BEYOND THE INTENDED SCOPE WHICH ARE DEFICIENT, UNFIT FOR SERVICE, OR IN NEED OF REPAIR. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING: LEAKING OR DETERIORATED PIPING AND VALVES, IMPROPERLY SUPPORTED OR SAGGING PIPE, AND SYSTEM APPURTENANCES NOT FUNCTIONING AS INTENDED.
10. ENSURE TO PROVIDE A MINIMUM OF SIX (6) SPARE SPRINKLER HEADS OF EACH TYPE AND TEMPERATURE RATING IN AN APPROPRIATELY SIZES SPARE SPRINKLER CABINET.

☐ PLUMBING KEYED NOTES

ALL SPRINKLER HEADS SHALL BE UNINSTALLED AND REPLACED WITH BRAND NEW SPRINKLER HEADS IN THE SAME LOCATION AS EXISTING CONDITIONS BY CONTRACTOR. REFER TO SPRINKLER AS-BUILD DRAWINGS FOR EXACT REPLACEMENT LOCATION.



1 P22.00 **DEMO COMPOSITE PLUMBING PLAN - LEVEL ONE**
1" = 20'-0"

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

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Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch. DBR	

PROJECT NO.
24-046.00

SHEET TITLE
GOFE - DEMO COMPOSITE PLUMBING PLAN

SHEET NO.
P22.00

CCISD Priority Repairs - FAPE GOFE ROBE

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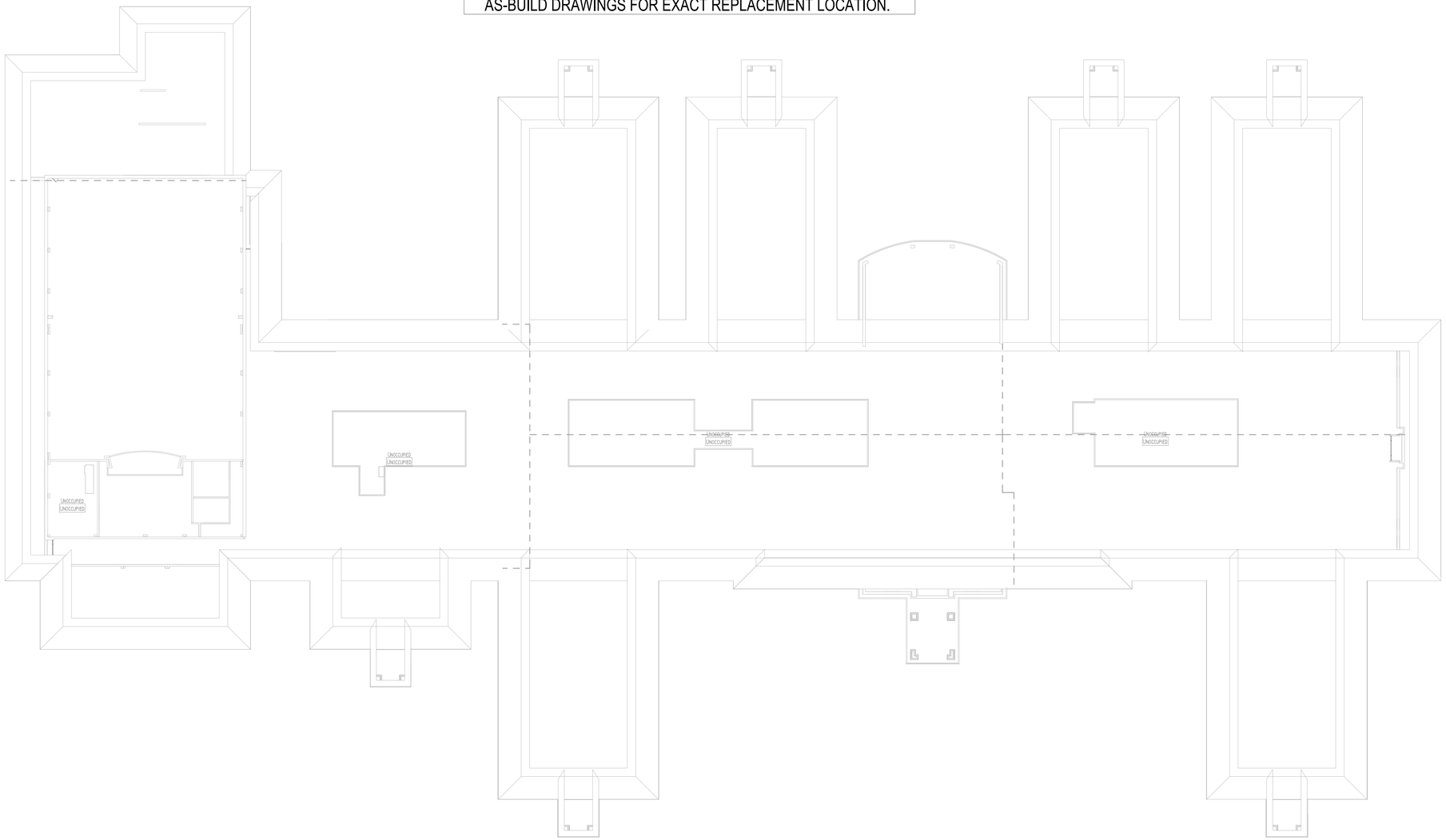

1 P22.01 **DEMO COMPOSITE PLUMBING PLAN - LEVEL TWO**
1" = 20'-0"

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CLEAR CREEK ISD
LEAGUE CITY, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

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Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - DEMO COMPOSITE PLUMBING PLAN - MEZZANINE

SHEET NO.

P22.01

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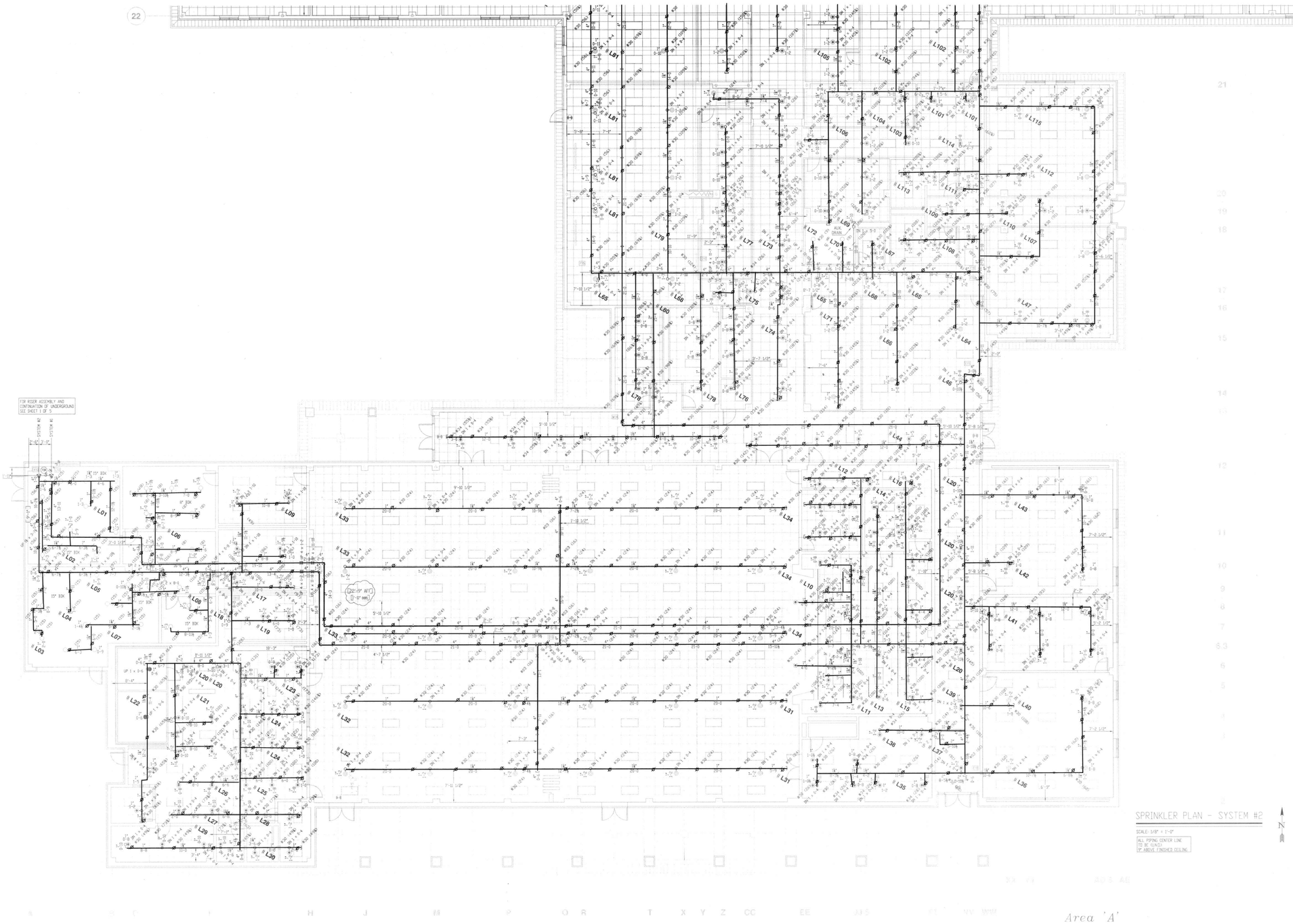

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LEAGUE CITY, TEXAS

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KEY PLAN

STATE OF TEXAS
WILLIAM MEISTER
101184
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11/14/24

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REVISIONS

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Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - FIRE SPRINKLER AS BUILTS

SHEET NO.

P22.60

CCISD Priority Repairs - FAPE GOFE ROBE

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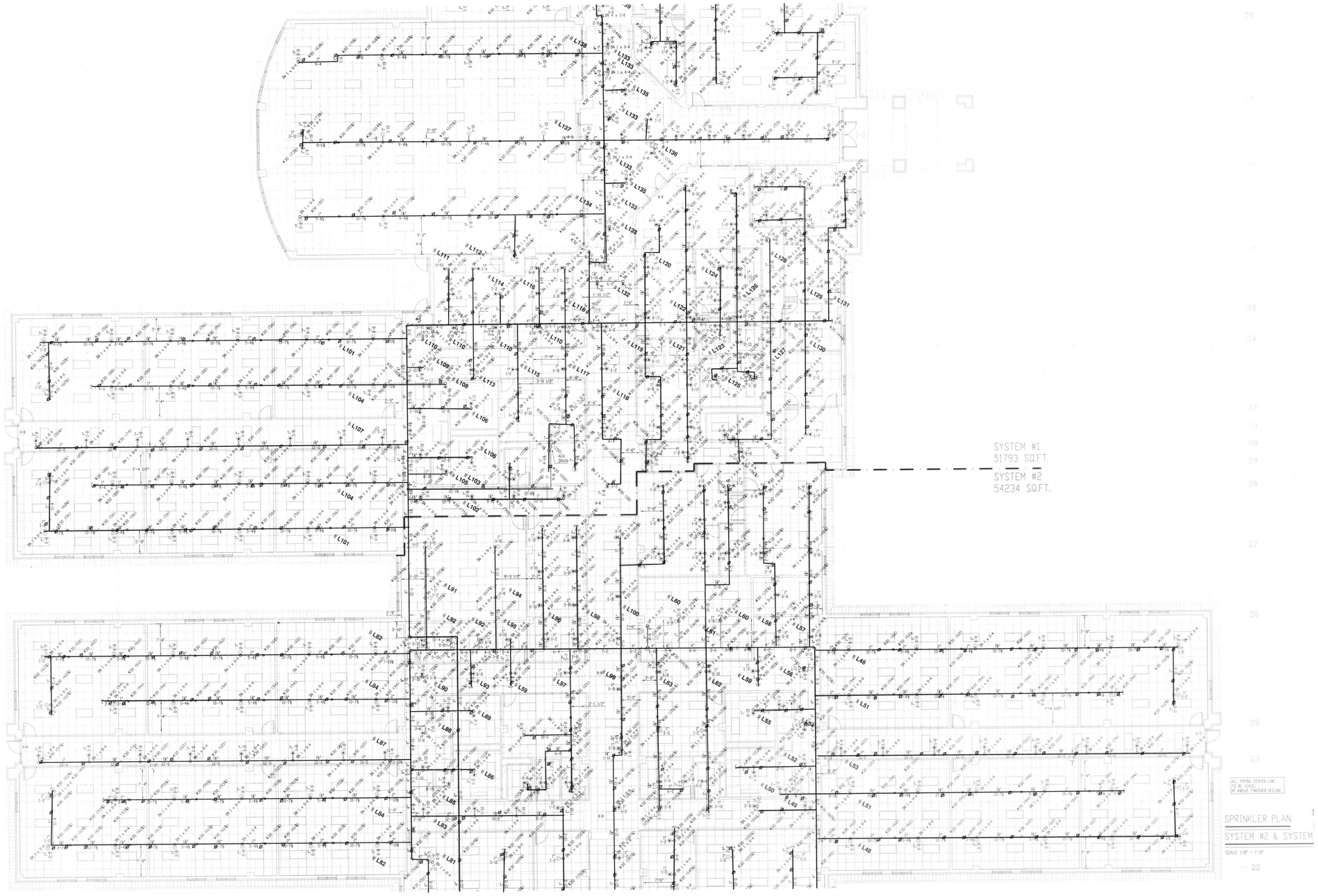

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CCISD PROJECT NO:
2025.402

KEY PLAN

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
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11/14/24

ISSUED: 11/14/2024

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Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
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DBR	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - FIRE SPRINKLER AS BUILTS

SHEET NO.

P22.61

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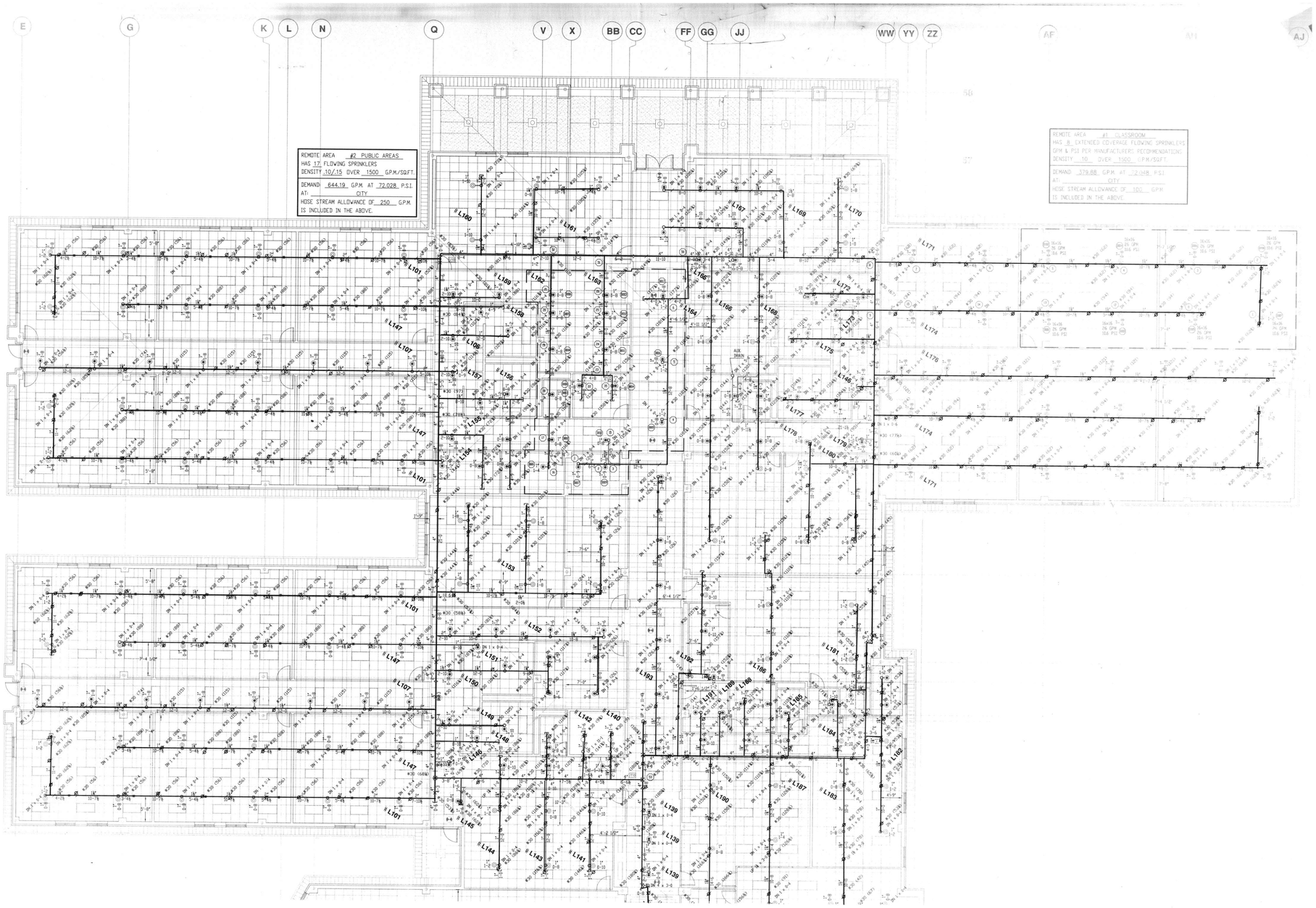

SPRINKLER PLAN - SYSTEM #1

SCALE: 1/8" = 1'-0"

N

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Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - FIRE SPRINKLER AS BUILTS

SHEET NO.

P22.62

CCISD Priority Repairs - FAPE GOFE ROBE

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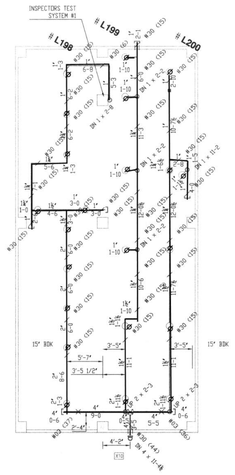
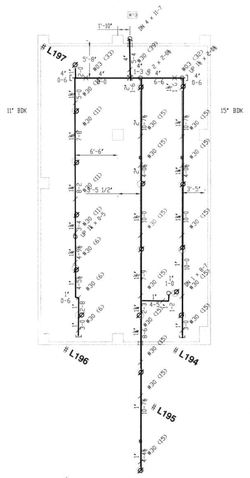
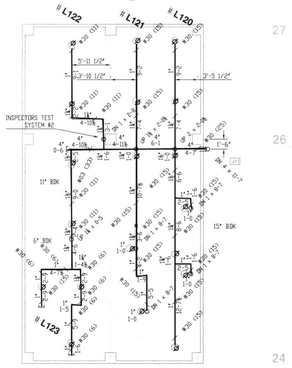
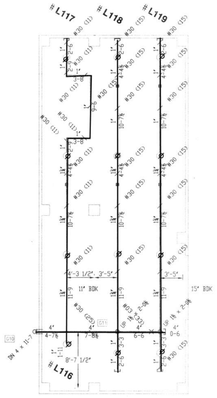


MEZZANINE - AREA 'C'

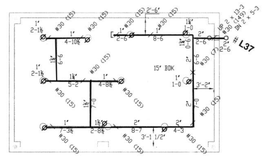




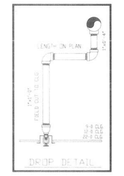
MEZZANINE - AREA 'B'



MEZZANINE - AREA 'A'



MEZZANINE - AREA 'A' AT GYM



NOTES

1. UNIVERSAL SPRINKLER CORP. CONTRACT TO BEGIN WITH 6" DUCTILE IRON AT 5'-0" LEAD-IN. ALL OTHER UNDERGROUND TO BE BY OTHERS.
2. ALL FIRE PROTECTION EQUIPMENT TO BE UL LISTED AND/OR FACTORY MUTUAL APPROVED.
3. THERMOSTATICALLY CONTROLLED HEAT (40° MIN.) TO BE PROVIDED BY OWNER TO PREVENT WET SYSTEM COMPONENTS FROM FREEZING.
4. ALL ELECTRICAL CONNECTIONS TO BE PROVIDED BY OTHERS.
5. ALL REQUIRED PAINTING TO BE BY OTHERS.
6. ALL OUTLETS ON 4" AND LARGER MAINS TO BE SHOP WELDED IN ACCORDANCE WITH N.F.P.A. 13, 1996, USING MERIT UL/FM WELD FITTINGS.
7. ALL GROOVED FITTINGS TO BE VICTAULIC 'FIRELOCK' #7005 COUPLINGS.
8. ALL THREADED FITTINGS TO BE BLACK CAST IRON CLASS 125.
9. ALL LINE PIPE 2" AND SMALLER TO BE BLACK SCH. 40 ASTM-A135.
10. ALL MAIN PIPE 4" AND LARGER TO BE BLACK SCH. 10 ASTM-A135.
11. 4" AND LARGER BLACK PIPE TO BE ROLL GROOVED (EXPECT SPIGOT).
12. ALL PENDANT SPRINKLERS SHALL BE ALLIGNED WITHIN NORMAL FABRICATION AND INSTALLATION TOLERANCES AND WILL BE CENTERED IN THE CEILING TILE MODULES, OR ALIGNED WITH OTHER FIXTURES: I.E., BUILDING GRID LINES, LIGHT FIXTURES, AIR CONDITIONING GRILLES, ETC.
13. SYSTEM TO BE HYDRAULICALLY CALCULATED PER NFPA 13, 1996. CLASSROOMS AND ASSOCIATED TEACHING AREAS TO HAVE EXTENDED COVERAGE HEADS WITH REQUIRED STARTING PSI AND GPM PER MANUFACTURERS RECOMMENDATIONS.
    PUBLIC AREAS TO BE DESIGNED FOR MOST REMOTE 1500 SQFT. AREA WITH DENSITY OF .10 FOR LIGHT HAZARD OCCUPANCIES WITH MAX. HEAD SPACING OF 225 SQFT. AND DENSITY OF .15 FOR ORDINARY HAZARD OCCUPANCIES WITH MAX. HEAD SPACING OF 130 SQFT.
14. ALL PIPE PENETRATIONS TO BE SEALED WITH 3M FIRE BARRIER CAULK CP-25WB.
15. ALL PIPE SLEEVES TO BE GALV. SCH 40 ASTM-A135.
16. ALL HANGERS IN ACCORDANCE WITH NFPA 13, 1996.

SPRINKLER PLAN

SCALE: 1/8" = 1'-0"

ALL PIPING CENTER LINE TO BE @UNO: 9" ABOVE FINISHED CEILING

N

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Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

GOFE - FIRE SPRINKLER AS BUILTS

SHEET NO.

P22.63

CCISD Priority Repairs - FAPE GOFE ROBE

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TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TDL/B/MS TN/JL/LG/SS

GENERAL CONSTRUCTION NOTES

GENERAL NOTES:

1. THESE PLANS WERE PREPARED TO MEET OR EXCEED CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, CITY OF PASADENA RULES AND REGULATIONS AS AMENDED.
2. STORM DRAINAGE SYSTEMS AND PAVING ARE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE DOCUMENTS – "DESIGN MANUAL, STANDARD CONSTRUCTION SPECIFICATIONS, AND DETAILS FOR STORM DRAINAGE AND STREET PAVING" PUBLISHED BY CITY OF PASADENA'S ENGINEERING DEPARTMENT, CURRENT LATEST EDITION.
3. ALL UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713–223–4567 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.
4. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES TO EXISTING WATER, WASTEWATER, STORM WATER LINES AND TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL MAKE ALL REPAIRS TO EXISTING UTILITIES WITH CITY OF PASADENA, ENGINEERING DEPARTMENT'S "STANDARD CONSTRUCTION SPECIFICATIONS" REFERENCED ABOVE, AT NO COST TO CITY OF PASADENA.
5. CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY THE "REGULATIONS OF CITY OF PASADENA, TEXAS FOR FLOOD PLAIN MANAGEMENT" PRIOR TO COMMENCING CONSTRUCTION.
6. CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER, PUBLIC IMPROVEMENTS DEPARTMENT – PERMITS DIVISION AT (713) 475–7835 FOR INSPECTION AT LEAST 48 HOURS PRIOR TO COMMENCING THE CONSTRUCTION.
7. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
8. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.
9. AUTHORIZATION NOTICE ISSUED BY THE CITY OF PASADENA PUBLIC IMPROVEMENTS DEPARTMENT – PERMIT DIVISION, REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR LEFT HAND TURN LANES WITHIN CITY OF PASADENA RIGHT–OF–WAY. CONTACT CITY OF PASADENA PERMIT OFFICE AT (713) 475–5575.
10. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
11. IF THE CONSTRUCTION DOES NOT BEGIN WITHIN A YEAR AFTER THE PLANS HAVE BEEN SIGNED, NEW SIGNATURES MUST BE OBTAINED AND LETTERS OF AVAILABILITY MUST BE UPDATED.
12. CONTRACTOR SHALL PREPARE A SET OF "AS–BUILT" DRAWINGS SHOWING ANY FIELD CHANGES MADE TO THE APPROVED ENGINEER PLANS AND SUBMIT TO THE DESIGN CONSULTANT FOR SUBMISSION TO THE CITY ENGINEER.
13. MAINTAIN A MINIMUM OF 12–INCHES (12") CLEARANCE BETWEEN ALL UTILITIES, UNLESS OTHERWISE NOTED ON THE PLANS.
14. ALL UTILITIES WITHIN EASEMENTS SHALL BE LOCATED IN ACCORDANCE WITH STANDARDS OUTLINED BY THE MOST CURRENT UTILITY COORDINATING COMMITTEE DRAWINGS.
15. CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY THE REGULATIONS OF CITY OF PASADENA, TEXAS AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK.
16. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS. IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
17. SEWER MATERIALS, CONSTRUCTION, AND TESTING TO BE IN ACCORDANCE WITH CITY OF PASADENA SPECIFICATIONS STANDARDS, LATEST PRINTING OF AMENDMENTS THERETO.
18. FLOW LINE ELEVATIONS AT MANHOLES ARE BASED ON DISTANCE BETWEEN MANHOLES AND NOT CENTERLINE RIGHT–OF–WAY STATIONING.
19. NATURAL GROUND ON PLAN AND PROFILE SHEETS ARE FOR CENTERLINE OF ROADWAY ONLY, UNLESS OTHERWISE NOTED ON THE PLANS.
20. ALL EXCAVATION UNDER PROPOSED AND FUTURE PAVEMENT OR WITHIN TWO FEET BEHIND BACK OF ALL CURBS TO BE BACKFILLED WITH 1–1/2 SACKS CEMENT PER CUBIC YARD CEMENT STABILIZED SAND TO BOTTOM OF SUBGRADE. THE REMAINING BACKFILL TO BE MADE WITH COMPACTED–SELECT MATERIALS PLACED IN 8–INCH MAXIMUM LAYERS AND COMPACTED TO A DENSITY OF 95% STANDARD PROCTOR.
21. ALL PROPOSED PIPE STUB–OUTS ARE TO BE PLUGGED. PLUG STORM SEWER PIPES WITH 8–INCH BRICK WALL; SANITARY SEWERS AND WATERLINES WITH PLUG AND CLAMP.
22. CONTRACTOR TO REMOVE PLUGS AND CONNECT TO EXISTING UTILITY LINES AS INDICATED ON PLANS.
23. UNLESS OTHERWISE NOTED ON PLANS, WHERE SANITARY AND/OR STORM SEWER MANHOLES ARE LOCATED WITHIN THE STREET R.O.W. OR EASEMENTS, CONTRACTOR SHALL SET RIM ELEVATIONS 3 TO 6 INCHES ABOVE FINISHED GROUND ELEVATION. FINISHED GROUND ELEVATION TO BE A STRAIGHT LINE FROM NATURAL GROUND AT PROPERTY LINE TO TOP OF CURB. UTILITY CONTRACTOR TO MAKE FINAL RIM ELEVATION ADJUSTMENTS SUBSEQUENT TO FINAL LOT GRADING.
24. ALL BASES FOR SANITARY AND STORM SEWER MANHOLES TO BE REINFORCED WITH #4 BARS AT 12–INCH C–C EACH WAY OR 6x6x6 GAUGE WELDED WIRE MESH. CONCRETE FOR SANITARY MANHOLES BASES TO BE 6 SACK CEMENT/C.Y. CONCRETE AND FOR STORM MANHOLES IT SHALL BE 5 SACKS CEMENT/C.Y.
25. FILL TO BE PLACED IN MAXIMUM 8–INCH LIFTS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY PER ASTM D–698.
26. ALL UNSATISFACTORY AND/OR WASTE MATERIALS INCLUDING VEGETATION, ROOTS, CONCRETE, AND DEBRIS SHALL BE DISPOSED OF OFF–SITE BY THE CONTRACTOR. NO DIRECT PAYMENT WILL BE MADE, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE VARIOUS BID ITEMS.
27. CONTRACTOR IS RESPONSIBLE FOR CLEANING MUD AND/OR DIRT TRACKED ONTO EXISTING STREETS BY HIS WORKMEN'S, SUPPLIER'S, OR SUBCONTRACTOR'S VEHICLES. STREETS MUST BE CLEANED WITHIN 2 HOURS OF WHEN THE TRACKING OCCURS. NO SEPARATE PAY.
28. RETESTING OF ALL UTILITIES AND ACCEPTANCE BY HARRIS COUNTY OR THE OWNER SUBSEQUENT TO THE PAVEMENT CONSTRUCTION WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAY.
29. CONTRACTOR IS HEREBY INFORMED THAT ALL TRENCHING AND SHORING WILL BE DONE IN STRICT ACCORDANCE WITH THE LATEST OSHA STANDARDS.
30. ANY SOIL BORINGS THE CONTRACTOR REQUIRES ARE TO BE DONE BY THE CONTRACTOR AT HIS EXPENSE.
31. ALL DISTURBED AREAS WITHIN THE RIGHT–OF–WAY SHALL BE RESTORED TO ITS EXISTING CONDITION BY HYDROMULCH SEEDING AS PER THE SATISFACTION OF CITY OF PASADENA, ENGINEER AND THE OWNER.
32. OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT MARKED THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT CONTRACTOR SHOULD LOCATE THEM PRIOR TO CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX FEET (6') OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY.
33. ANY DEBRIS, ROOTS, ETC. LEFT OVER FROM THE SITE CLEARING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE & DISPOSE.

AT&T TEXAS/SWBT FACILITIES NOTES:

1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL CALL 1–800–344–8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON–MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES, THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER ROOSEVELT LEE JR. AT (713) 567–4552 OR EMAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR AT&T TEXAS/SWBT FACILITIES.

CENTERPOINT ENERGY UTILITY NOTES:

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC, WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223–4567, 1–800–669–8344 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 967–8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON–MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL LINES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207–2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207–6248 OR (713) 207–5769.

STORM SEWER AND DRAINAGE NOTES:

1. STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE LATEST HARRIS COUNTY STANDARDS OF CONSTRUCTION WITH ALL AMENDMENTS THERETO, AND THESE PLANS AND SPECIFICATIONS.
2. ALL STORM SEWER PIPES LOCATED UNDER OR WITHIN TWO FEET OF PROPOSED OR FUTURE PAVING SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND (1–1/2 SACK/CUBIC YARD) UP TO BOTTOM OF SUBGRADE.
3. ALL STORM SEWER PIPES IN THE RIGHT OF WAY TO BE R.C.P. C–76, CLASS III, WITH RUBBER GASKET JOINTS, BEDDED PER HARRIS COUNTY DETAILS, AS APPROPRIATE. PRIVATE STORM SEWER SHALL BE HDPE, SMOOTH INTERIOR, WATERTIGHT JOINT, UNLESS OTHERWISE NOTED.
4. ALL INLETS SHALL BE TYPE "A" UNLESS OTHERWISE NOTED.
5. FIRST STAGE INLET TO BE CONSTRUCTED TO WITHIN APPROXIMATELY ONE FOOT BELOW BOTTOM OF PROPOSED PAVEMENT. COVER WITH TIMBER GRATE.
6. ALL STORM SEWER MANHOLES SHALL BE STANDARD, TYPE "C' UNLESS OTHERWISE NOTED.
7. MANHOLE & INLET COVERS SHALL BE CAST WITH THE LOGO "STORM" AND BE RATED FOR H–20 DESIGN LOADING.
8. CEMENT STABILIZED SAND BEDDING AND/OR BACKFILL FOR INSTALLATION UNDER OR WITHIN ONE FOOT OF PAVEMENT SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF STORM SEWER PIPE.

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CLEAR CREEK I.S.D.
SEABROOK, TEXAS

CCISD PROJECT
NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
ASHISH NANTHAVONGDUANGSY
99284
LICENSED PROFESSIONAL ENGINEER
11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

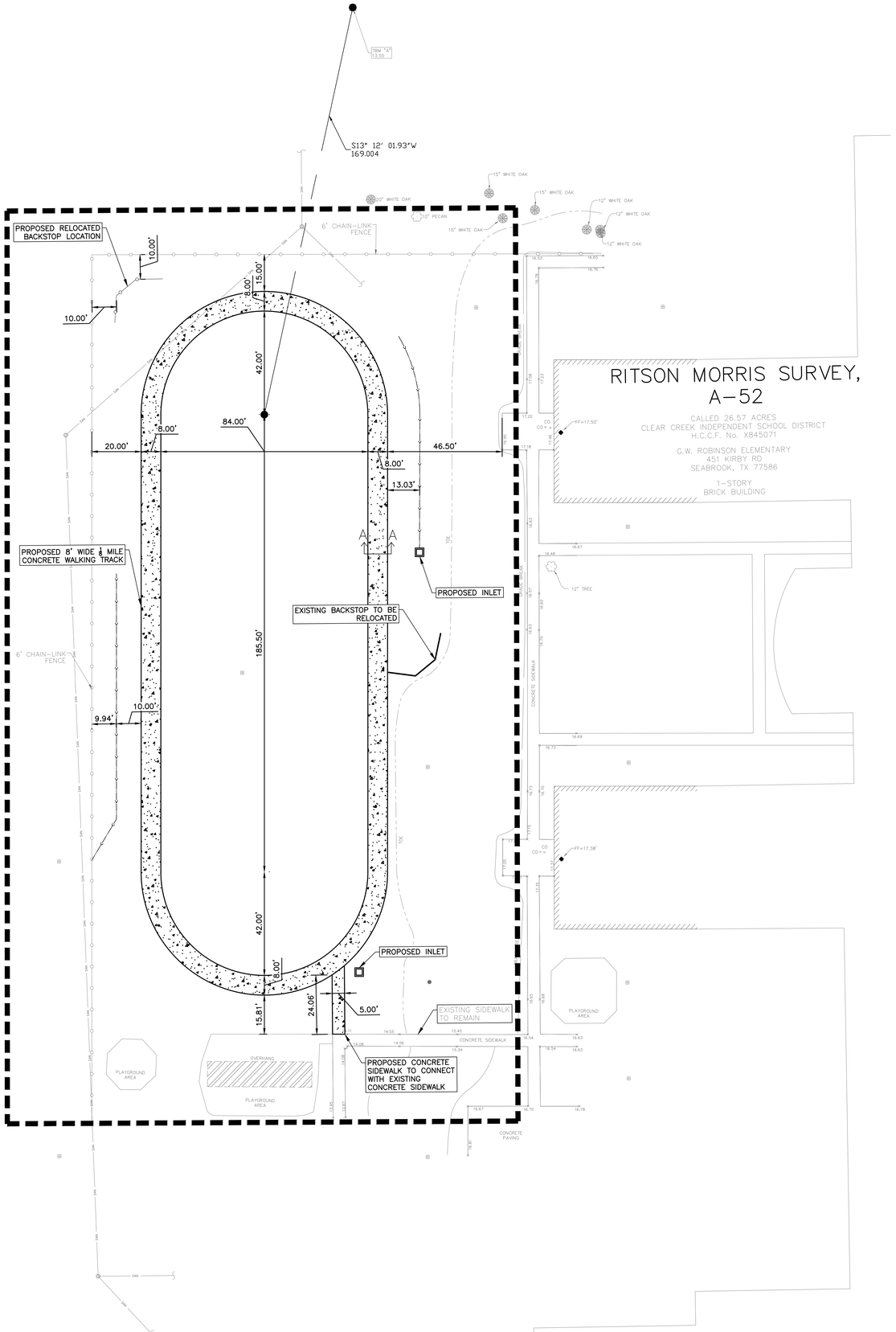
Revision No.

Director DIR	Drawn By
Designer DSN	Quality Control QC
Proj. Arch. PA	

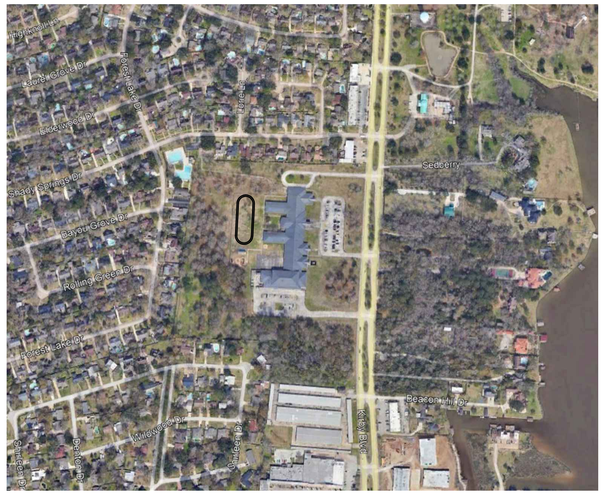
PROJECT NO.
24-046.00

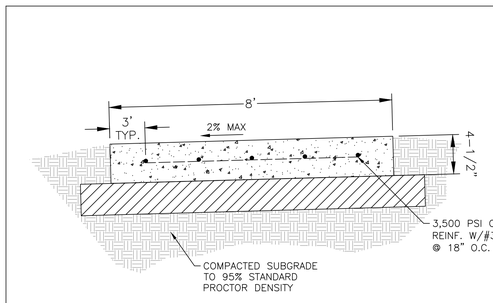
SHEET TITLE
ROBE - GENERAL NOTES

SHEET NO.
C31.00

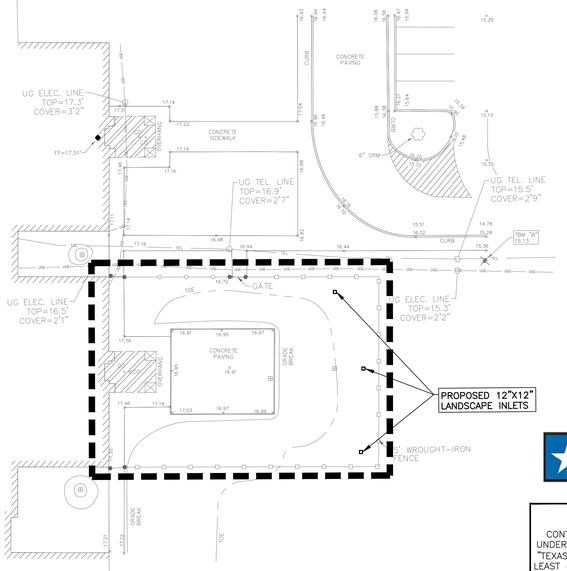


PROPOSED WALKING TRACK AND SIDEWALK





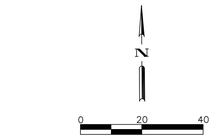
A-A SIDEWALK SECTION WALKWAY NTS



DRAINAGE IMPROVEMENT IN PLAY AREA

NOTE:

ST AUGUSTINE SOD– NO HYDROMULCH WHERE GROUND IS DISTURBED



LEGEND

SCOPE OF WORK

PROPOSED 4 1/2"-INCH THICK CONCRETE PAVING W/ #3 REBAR @ 18" OC EA WAY

SITE PLAN NOTES:

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
3. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SOD AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
4. NOT ALL DIMENSIONS ARE SHOWN ON THIS PLAN, SEE ARCHITECTURAL SITE PLAN FOR DETAILED DIMENSIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
6. REFER TO TOPOGRAPHICAL SURVEY ON SHEET C2 FOR EXISTING CONDITIONS, REFER TO PLAT FOR PROPERTY BOUNDARIES.
7. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE STANDARD SITE WORK SPECIFICATION.

WARNING:

CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES BY CONTACTING "TEXAS 811" AT 811 OR 713-223-4567 AT LEAST 48 HOURS BEFORE YOU DIG, DRILL OR BLAST.

EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

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CLEAR CREEK I.S.D.
SEABROOK, TEXAS

CCISD PROJECT NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
RAMON NANTHAVONGDOUANGSY
99284
LICENSED
PROFESSIONAL ENGINEER
11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

Director	Drawn By
DIR	
Designer	Quality Control
DSN	QC
Proj. Arch.	
PA	

PROJECT NO.

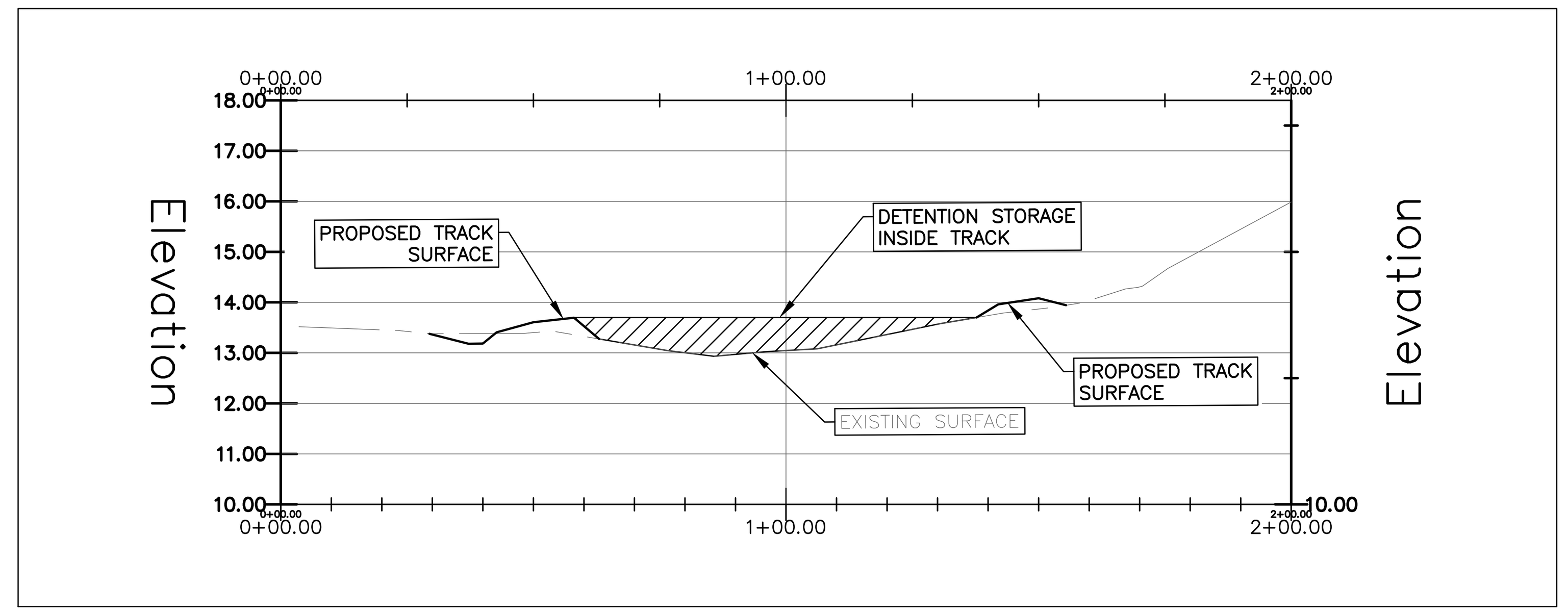
24-046.00

SHEET TITLE

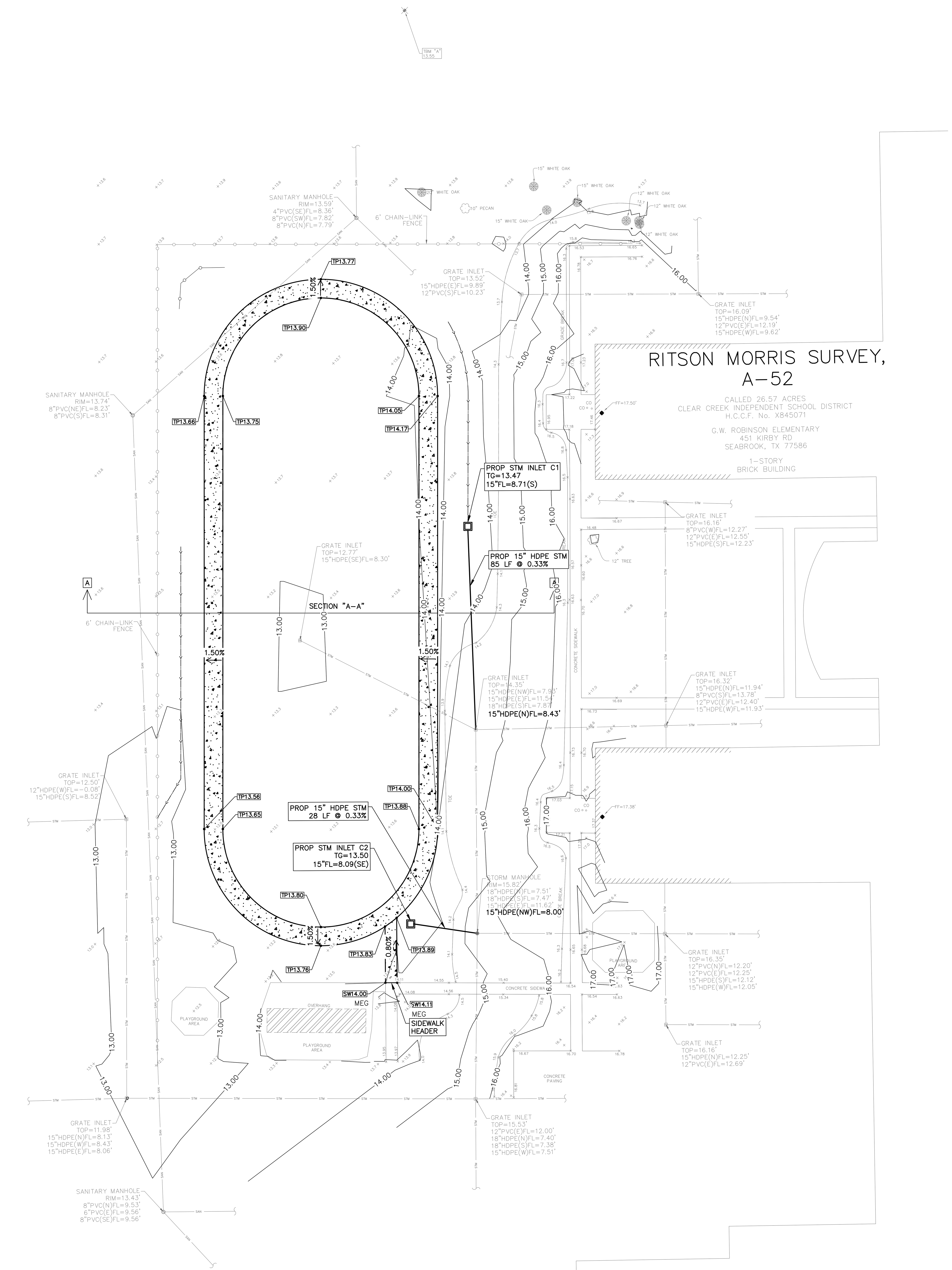
ROBE - OVERALL SITE PLAN

SHEET NO.

C32.00



TRACK PROFILE SECTION A-A



PROPOSED WALKING TRACK AND SIDEWALK

100-YEAR FLOOD PLAIN INFORMATION:

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP, PASADENA, TEXAS, AND INCORPORATED AREAS, COMMUNITY PANEL NO. 48201C1085M MAP REVISED DATED JANUARY 6, 2017, THIS PROPERTY LIES IN UNSHADED ZONE "X", LOCATED OUT SIDE THE 100 YEAR FLOODPLAIN

BENCHMARK INFORMATION:

1. PROJECT BENCHMARK: HCFCD RN NO. 010245 (STREAM NO. A104-00-00) BEING A BRASS DISC STAMPED "RM 010245" IN CONCRETE SIDEWALK OVER TAYLOR BAYOU. FROM INTERSECTION SPACE CENTER BLVD AND NASA RD 1, TRAVEL +/- 1.65 MILE TO BRIDGE OVER TAYLOR LAKE. MONUMENT IS AT THE NORTHEAST CORNER OF THE BRIDGE. ELEV= 11.21' NAVD88, 2001 ADJ.
2. TEMPORARY BENCHMARK (TBM) "A": BEING A 5/8 INCH IRON ROD WITH MILLER SURVEY CAP, LOCATED +/- 165' NORTHWEST OF THE NORTHWEST CORNER OF ROBINSON ELEMENTARY. BENCHMARK IS ALSO LOCATED +/- 85' SOUTH OF THE NORTH LINE OF THE SUBJECT TRACT. ELEV= 13.55' NAVD88, 2001 ADJ.
3. TEMPORARY BENCHMARK (TBM) "B": BEING A 5/8 INCH IRON ROD WITH MILLER SURBEY CAP, LOCATED +/- 235' WEST OF THE CENTERLINE INTERSECTION THE MIDDLE ENTRANCE TO ROBINSON ELEMENTARY. BENCHMARK IS ALSO LOCATED +/- 2' SOUTH OF A CONCRETE SIDEWALK. ELEV= 15.13' NAVD88, 2001 ADJ.

GENERAL GRADING NOTES:

1. CONTRACTOR TO REGRADE ALL DISTURBED AREAS AFTER CONSTRUCTION IS COMPLETE TO EQUAL OR BETTER CONDITION. RE-SOD ALL DISTURBED AREAS WITH ST. AUGUSTINE GRASS INCLUDING INSIDE CITY OF PASADENA RIGHT-OF-WAY AND ANY PRIVATE PROPERTY THAT IS DISTURBED.
2. REGRADE ALL DITCHES AFTER CONSTRUCTION IS COMPLETE THAT ARE DISTURBED DURING CONSTRUCTION. REGRADE DITCH TO ESTABLISH FLOW IN A POSITIVE DIRECTION.
3. ALL OPEN EXCAVATION TO BE CLEARLY IDENTIFIED BY CONTRACTOR. CONTRACTOR IS REQUIRED TO COVER ALL OPEN EXCAVATION AREAS AT THE END OF EACH WORK DAY AND WHENEVER CONTRACTOR IS NOT WORKING ONSITE USING STEEL PLATES.
4. ALL PAVING "TP" AND "TC" SHOWN ARE TAKEN FROM BACK OF CONCRETE PAVEMENT.
5. CONTRACTOR IS REQUIRED TO ENSURE THAT ALL CONSTRUCTED SLOPES AND ELEVATIONS COMPLY WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION REQUIREMENTS FOR ACCESSIBILITY. GRADES SHOWN ON THE PLANS HAVE BEEN CAREFULLY DETERMINED BASED ON MINIMUM ACCESSIBILITY STANDARDS.
6. CHANGES IN LEVEL OR TOP OF PAVEMENT AT ALL BUILDING EXITS SHALL BE 1/4" MAXIMUM.
7. ALL CROSS SLOPES AT ACCESSIBLE ROUTES SHALL BE 2% MAXIMUM.
8. WHERE AN ACCESSIBLE ROUTE CHANGES DIRECTION, A 5'X5' LANDING SHALL BE PROVIDED WITH MAXIMUM 2% SLOPE IN ANY DIRECTION.
9. NO PORTION OF THE A.D.A. ACCESSIBLE PARKING AREA SHALL EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
10. ACCESSIBLE ROUTES MAY HAVE SLOPES UP TO 5%.
11. ALL ADA WHEELCHAIR RAMPS SHALL BE MAXIMUM 1:12 (8.33%). ALL RAMPS MUST HAVE A 5'X5' LANDING WITH A MAXIMUM 2% SLOPE AT THE TOP AND BOTTOM. ANY RAMP RUN THAT RISES MORE THAN 6-INCHES VERTICALLY REQUIRES HAND RAILS (RE: ARCH PLANS).
12. THE FINISHED GRADES SHOWN ON THIS PLAN REPRESENT FINAL ELEVATIONS. THE CONTRACTOR MUST TAKE CARE TO ENSURE THAT THE FINISHED GRADES SHOWN HEREON ARE NOT EXCEEDED BY LANDSCAPING, MULCH, FILL MATERIAL OR OTHER LANDSCAPE DEVICES THAT BLOCK POSITIVE DRAINAGE AWAY FROM THE BUILDING OR SLAB. THE THICKNESS OF GRASS SOD, LANDSCAPING MATERIALS, OR OTHER OUTDOOR DEVICES SHOULD BE DEDUCTED FROM THE FINISHED GRADE ELEVATIONS SHOWN ON THESE PLANS IN ORDER TO DETERMINE THE FINAL GRADE ELEVATIONS DURING CONSTRUCTION.

N

SCALE: 1"=20'-0"

DETENTION SUMMARY

INCREASE IMPERVIOUS AREA: 0.117 AC

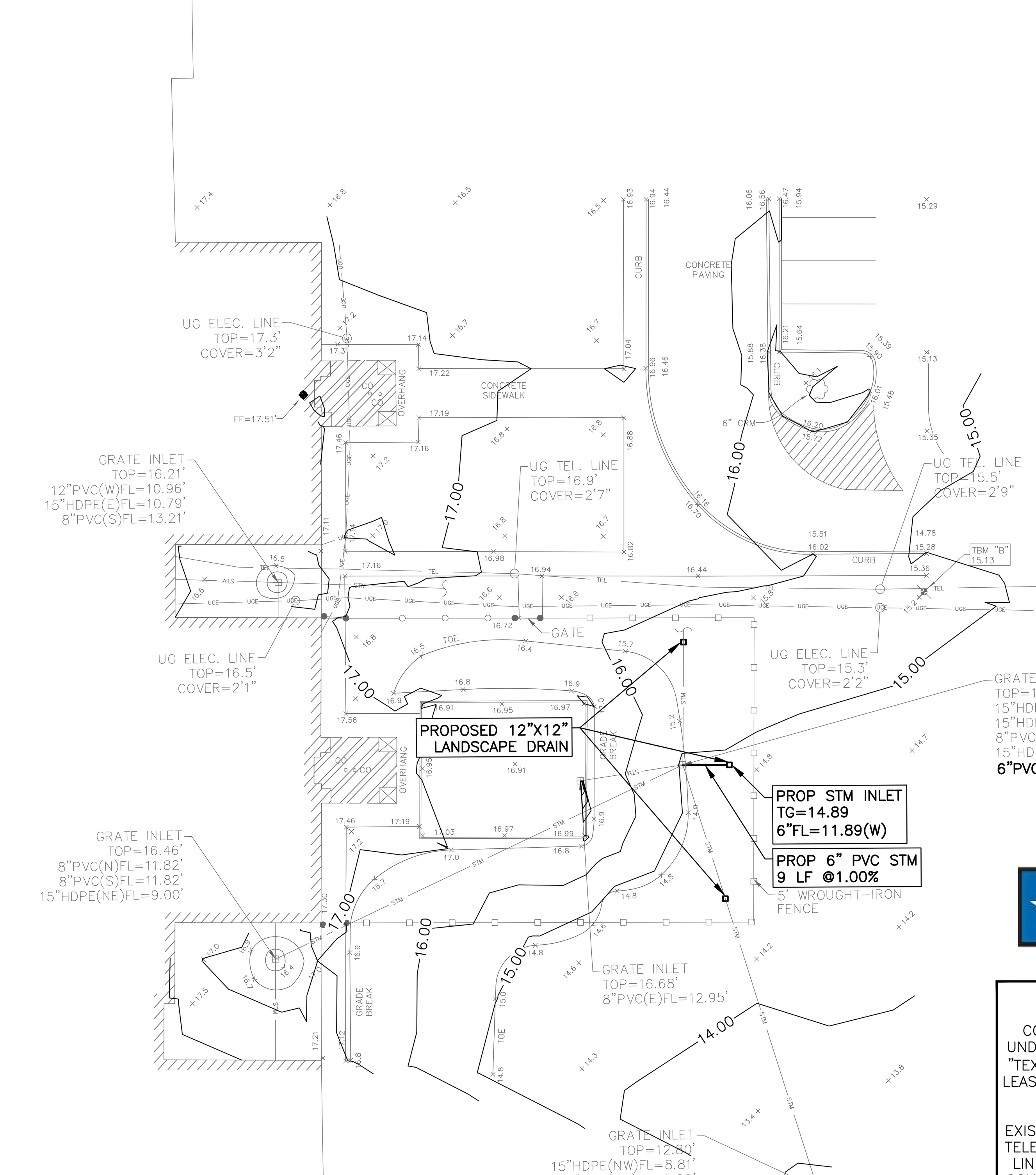
STORAGE VOLUME REQUIRED:

0.117 AC x 0.75 = 0.088 AC/FT

STORAGE VOLUME PROVIDED: 0.091 AC/FT

GRADING LEGEND:

	PROPOSED SWALES
53.00	EXISTING CONTOUR
MEG	MATCH EXISTING GRADE
TP14.00	PROPOSED TOP OF PAVEMENT
SW14.00	PROPOSED TOP OF SIDEWALK ELEVATION
FG14.00	PROPOSED FINISH GRADE ELEVATION
TOB14.00	PROPOSED TOP OF BANK ELEVATION
FL14.00	PROPOSED FLOW LINE ELEVATION
TG14.00	PROPOSED TOP OF GRATE ELEVATION



DRAINAGE IMPROVEMENT IN PLAY AREA

Texas811

WARNING:

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EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

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CCISD PROJECT
NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
PHASITH NANTHAVONGDOUANGSY
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LICENSED PROFESSIONAL ENGINEER
11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

Director	Drawn By
DIR	
Designer	Quality Control
DSN	QC
Proj. Arch.	
PA	

PROJECT NO.

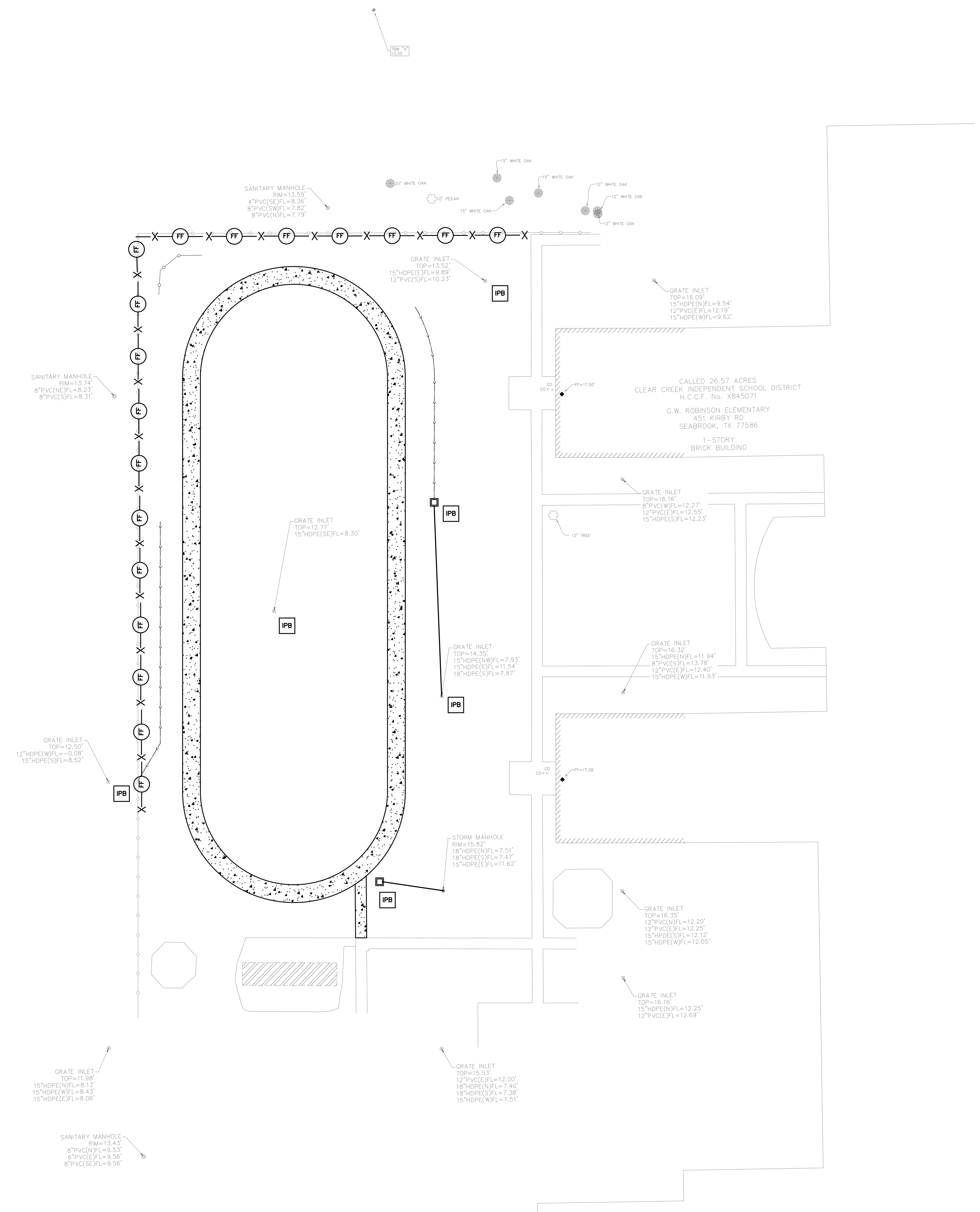
24-046.00

SHEET TITLE

ROBE - GRADING PLAN

SHEET NO.

C33.00



PROPOSED WALKING TRACK AND SIDEWALK

SCALE: 1"=20'-0"

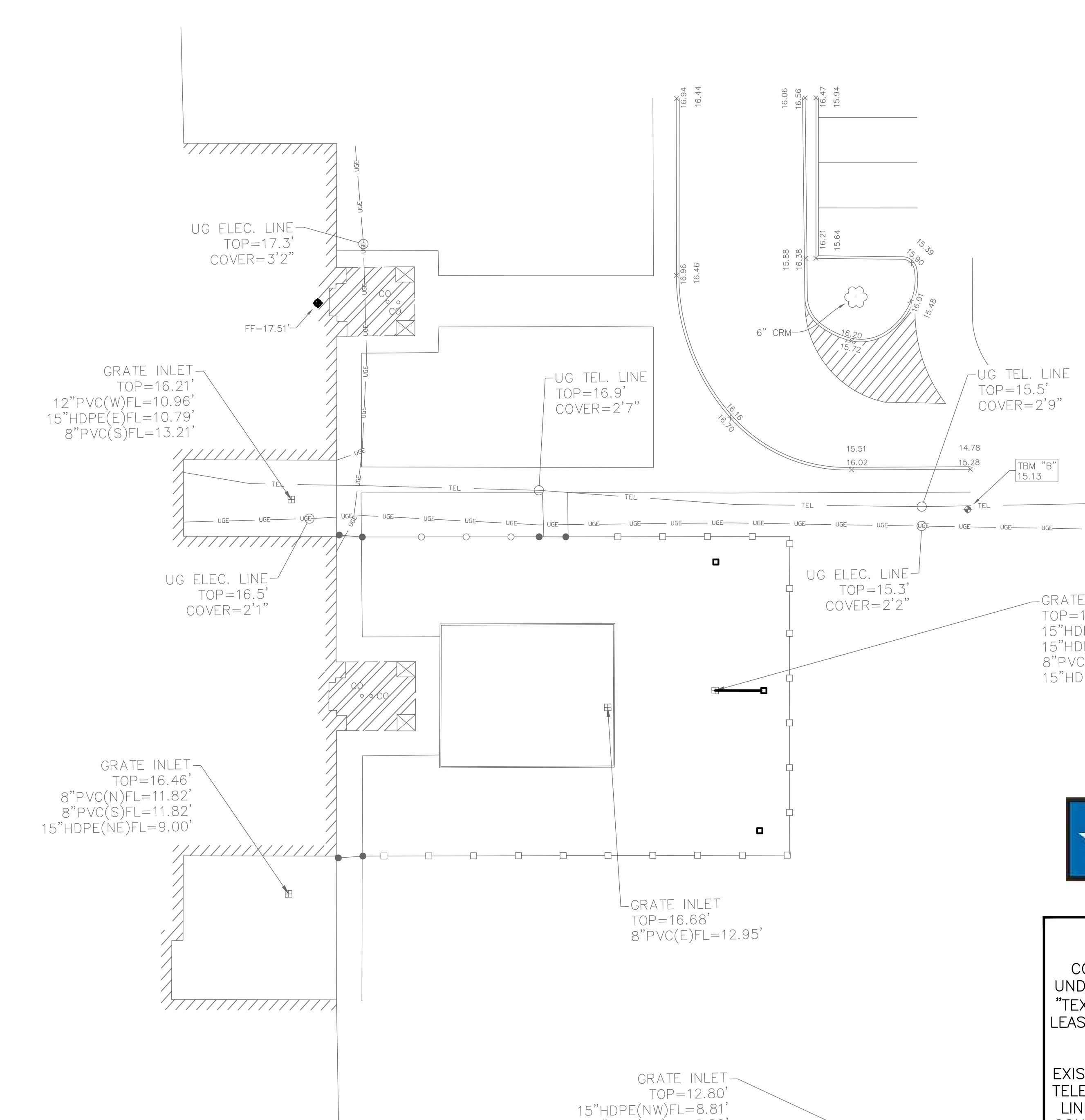
SWPPP LEGEND:

Symbol	Description
FF	FILTER FABRIC FENCE
RFF	REINFORCED FILTER FABRIC FENCE
IPB	INLET PROTECTION BARRIER
SC	STABILIZED CONSTRUCTION ENTRANCE/EXIT
FD-TYPE1	FILTER DAM - TYPE 1
CTW	CONCRETE TRUCK WASHOUT

NOTE: SEE C5 FOR STORM WATER POLLUTION PREVENTION DETAILS

POLLUTION PREVENTION NOTES:

1. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL POLLUTION PREVENTION SYSTEMS AT LOCATIONS SHOWN ON PLANS.
3. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE STANDARDS OF THE OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM (TPDES) REQUIREMENTS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ENFORCEMENT OF TDPES REQUIREMENTS PER "GENERAL REQUIREMENTS FOR PERMIT TXR150000".
5. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING GENERAL SOURCE CONTROLS.
6. THE LOCATION OF THE STABILIZED CONSTRUCTION ACCESS IS TO BE DETERMINED BY THE CONTRACTOR.
7. ALL AREAS BETWEEN BACK-OF-CURB AND PAVED AREA SHALL BE HYDRO-MULCHED SEEDED. ALL LOTS AND OTHER AREAS DISTURBED DURING CONSTRUCTION SHALL BE BROADCAST SEEDED.
8. CONTRACTOR SHALL INSPECT ALL POLLUTION PREVENTION SYSTEMS SPECIFIED HEREIN, AS REQUIRED IN THE PERMIT.
9. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT.
10. CONTRACTOR SHALL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
11. CONTRACTOR SHALL LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVENIENCE SYSTEMS. CONTRACTOR SHALL USE A LINER UNDER ABOVE GROUND STORAGE TANKS. CONTRACTOR SHALL USE FILTER FABRIC FENCING, HAY BALES, OR BERMS AROUND FUEL STORAGE AREAS.
12. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITTING OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TAKEN TO REMEDY THE PROBLEM.
13. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
14. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATELY MAINTAINED SANITARY FACILITIES.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET CLEANING, ON A DAILY BASIS, ALL MUD AND DIRT DEPOSITED ON THE EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY.
16. CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE/EXIT.
17. SEDIMENT WILL BE REMOVED FROM BEHIND THE FILTER FABRIC FENCE WHEN IT BECOMES ABOUT ONE-THIRD OF THE HEIGHT OF THE FENCE.
18. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE HAS BEEN ESTABLISHED, STRUCTURAL CONTROLS WILL BE REMOVED AND ALL DISTURBED AREAS WILL BE RESTABILIZED.
19. AT THE COMPLETION OF THE PROJECT/CONTRACT, THE OWNER AND/OR OWNERS REPRESENTATIVE AND THE CONTRACTOR SHALL EXAMINE THE POLLUTION PREVENTION SYSTEM BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.



DRAINAGE IMPROVEMENT IN PLAY AREA

WARNING:

CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES BY CONTACTING "TEXAS 811" AT 811 OR 713-223-4567 AT LEAST 48 HOURS BEFORE YOU DIG, DRILL OR BLAST.

EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

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CLEAR CREEK I.S.D.
SEABROOK, TEXAS

CCISD PROJECT
NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
PHASITH NANTHAVONGDOUANGSY
99284
LICENSED
PROFESSIONAL ENGINEER
11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

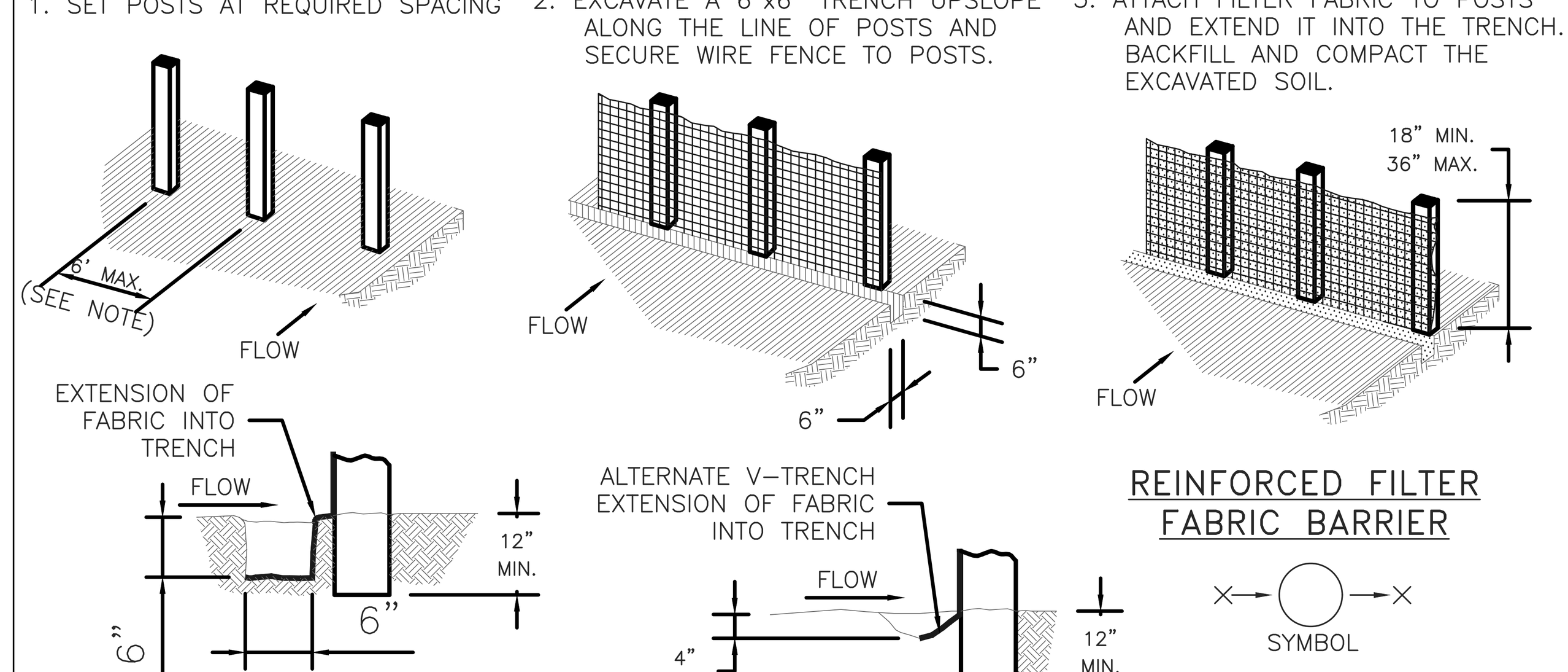
Director DIR	Drawn By
Designer DSN	Quality Control QC
Proj. Arch. PA	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - SWPP PLAN

SHEET NO.
C34.00

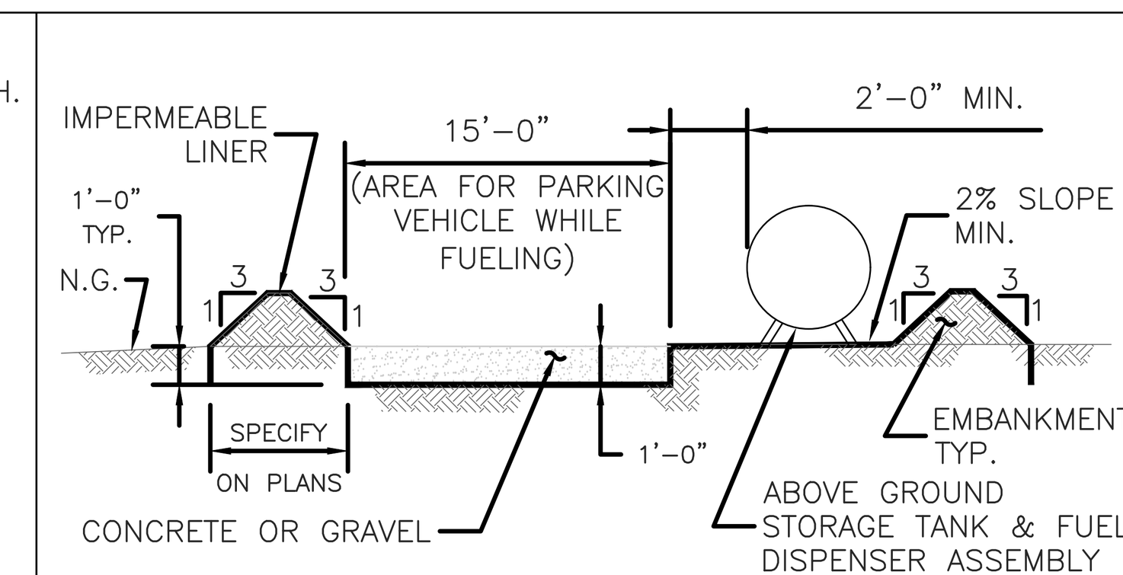
1. SET POSTS AT REQUIRED SPACING
2. EXCAVATE A 6"x6" TRENCH UPSLOPE ALONG THE LINE OF POSTS AND SECURE WIRE FENCE TO POSTS.
3. ATTACH FILTER FABRIC TO POSTS AND EXTEND IT INTO THE TRENCH. BACKFILL AND COMPACT THE EXCAVATED SOIL.



REINFORCED FILTER FABRIC BARRIER

GENERAL NOTES:

1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.

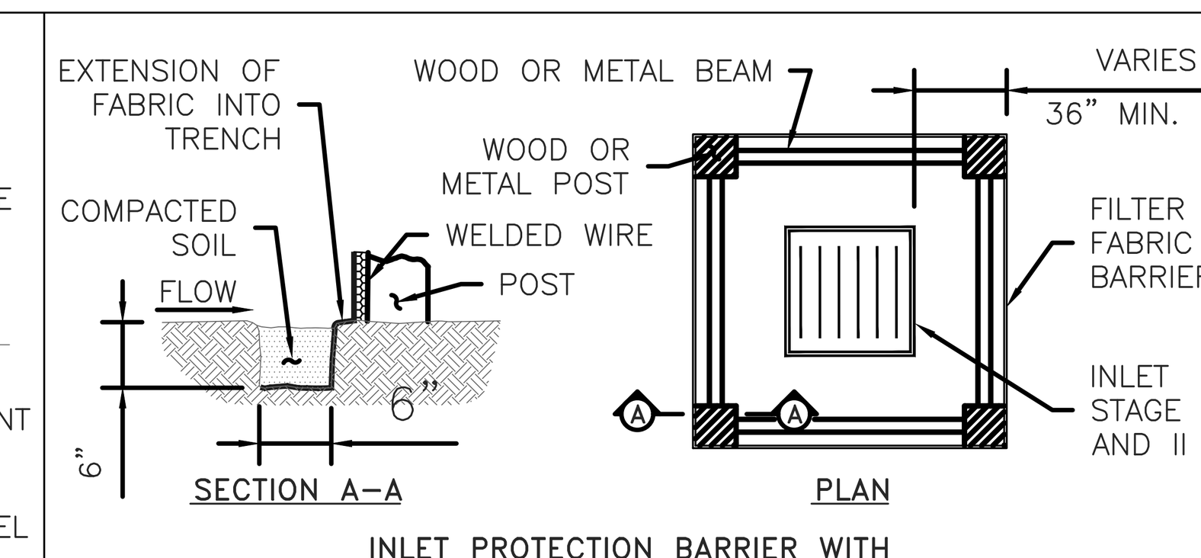


ABOVE GROUND TEMP. VEHICLE & EQUIPMENT FUELING AREA WITH TANK

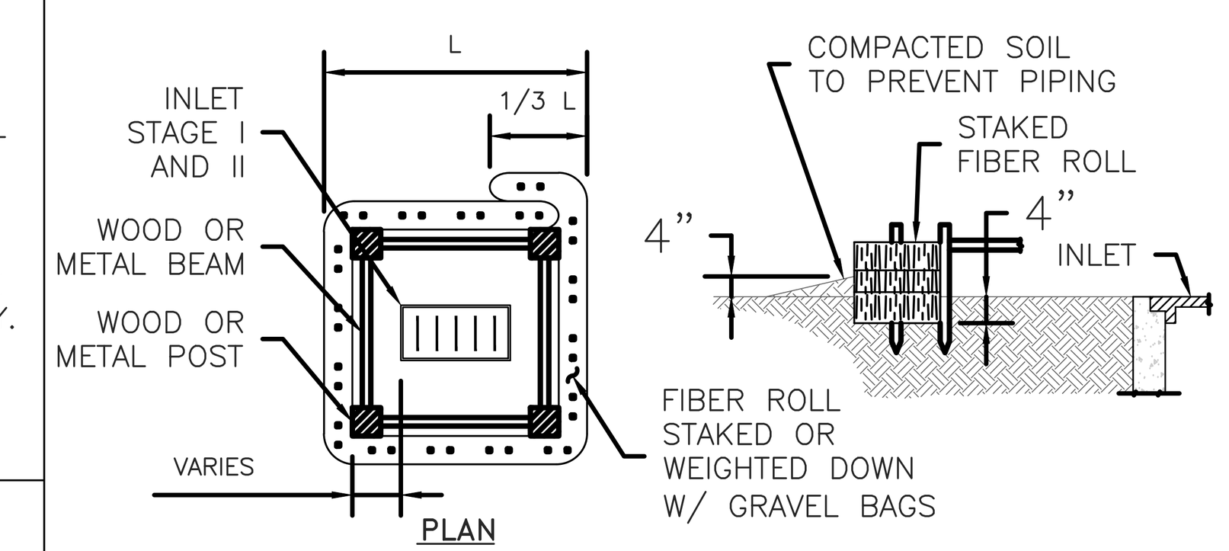
TFA SYMBOL

GENERAL NOTES:

1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM SLOPE OF 2 % TOWARD THE SUMP PIT.
3. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.



INLET PROTECTION BARRIER WITH REINFORCED FILTER FABRIC



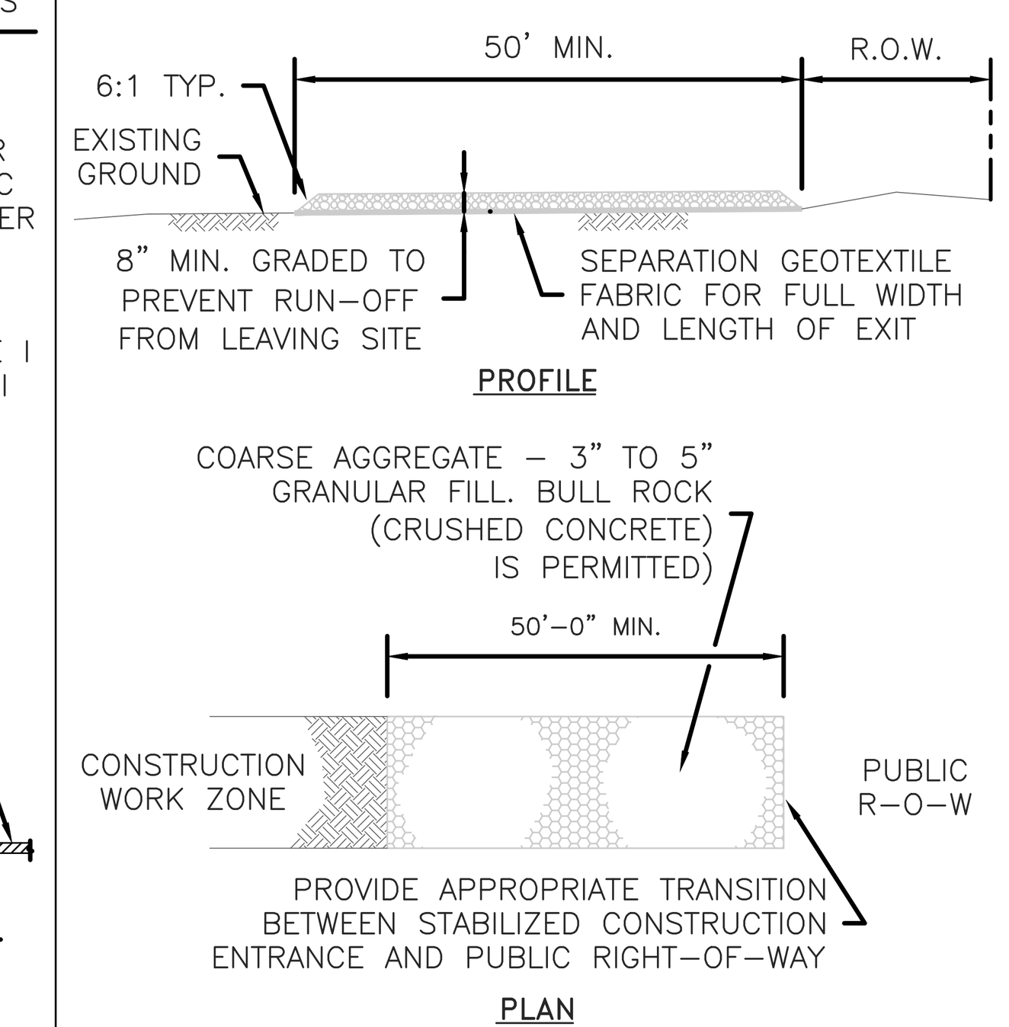
INLET PROTECTION BARRIER WITH FILTER ROLLS

GENERAL NOTES:

1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

IPB SYMBOL

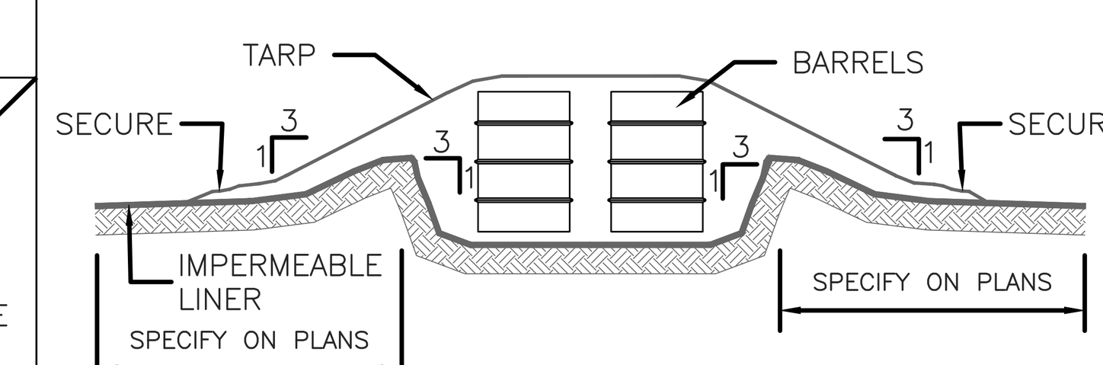


STABILIZED CONSTRUCTION ACCESS

SC-1 SYMBOL

GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

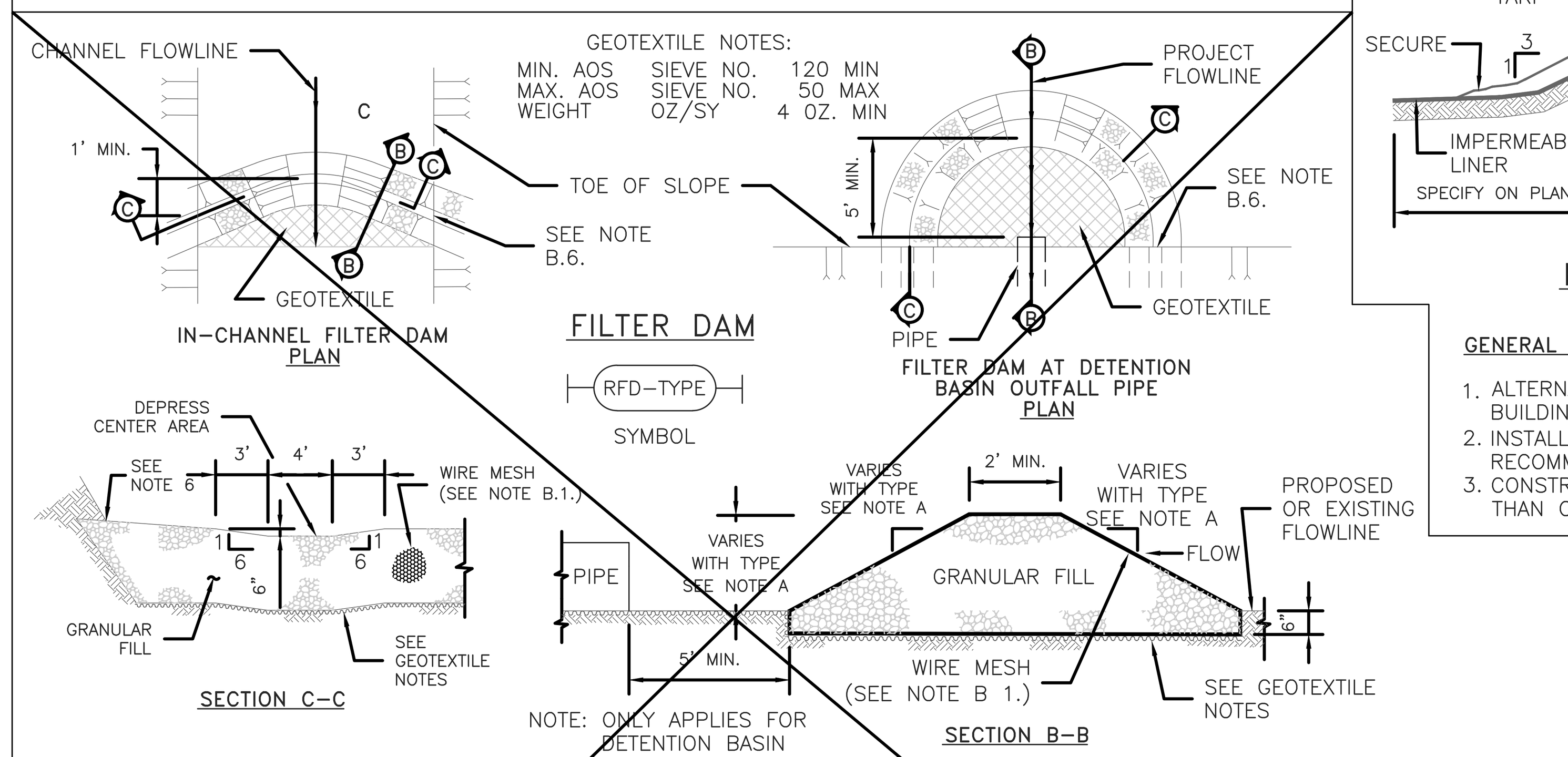


BARREL STORAGE AREA

BSA SYMBOL

GENERAL NOTES:

1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS. 60 mil MINIMUM.
3. CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS.



FILTER DAM

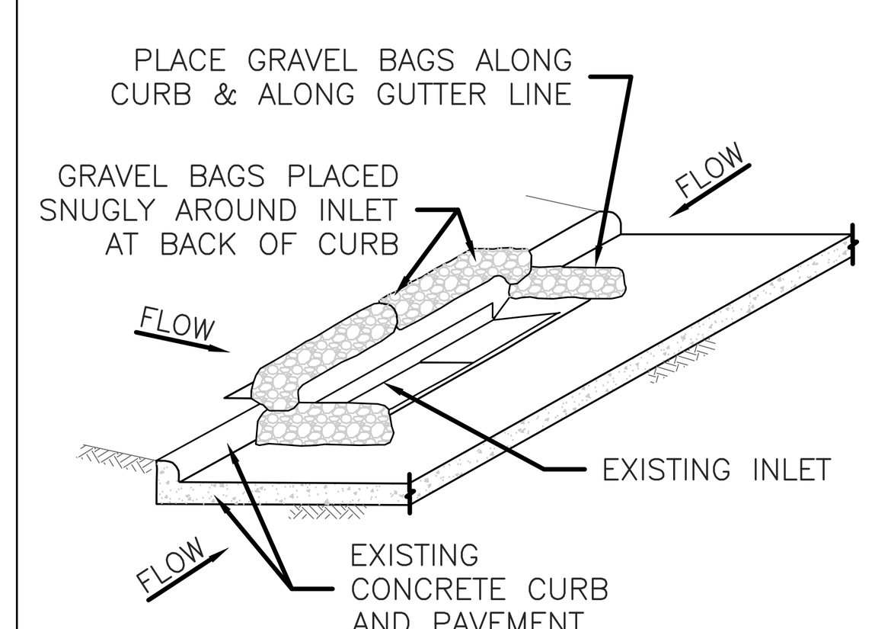
RFD-TYPE SYMBOL

A. TYPES OF FILTER DAMS

1. TYPE 1 (NON-REINFORCED)
   a. HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM)
   c. SLOPES - 2:1 (MAXIMUM).
2. TYPE 2 (REINFORCED).
   a. HEIGHT - 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM).
   c. SLOPES - 2:1 (MAXIMUM).
3. TYPE 3 (REINFORCED)
   a. HEIGHT - 36-48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM).
   c. SLOPES - 3:1 (MAXIMUM).
4. TYPE 4 (GABION)
   a. HEIGHT - 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.

B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.

1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
2. PLACE GRANULAR FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
   a. 3-5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
   b. 4-8 INCHES FOR ROCK FILTER DAM TYPE REFER TO GRANULAR FILL IN SPECIFICATION SECTION No. 02378 RIPRAP AND GRANULAR FILL.
3. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. SEE HCFCD SPECIFICATION SECTION NO. 02364-FILTER DAMS.
6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

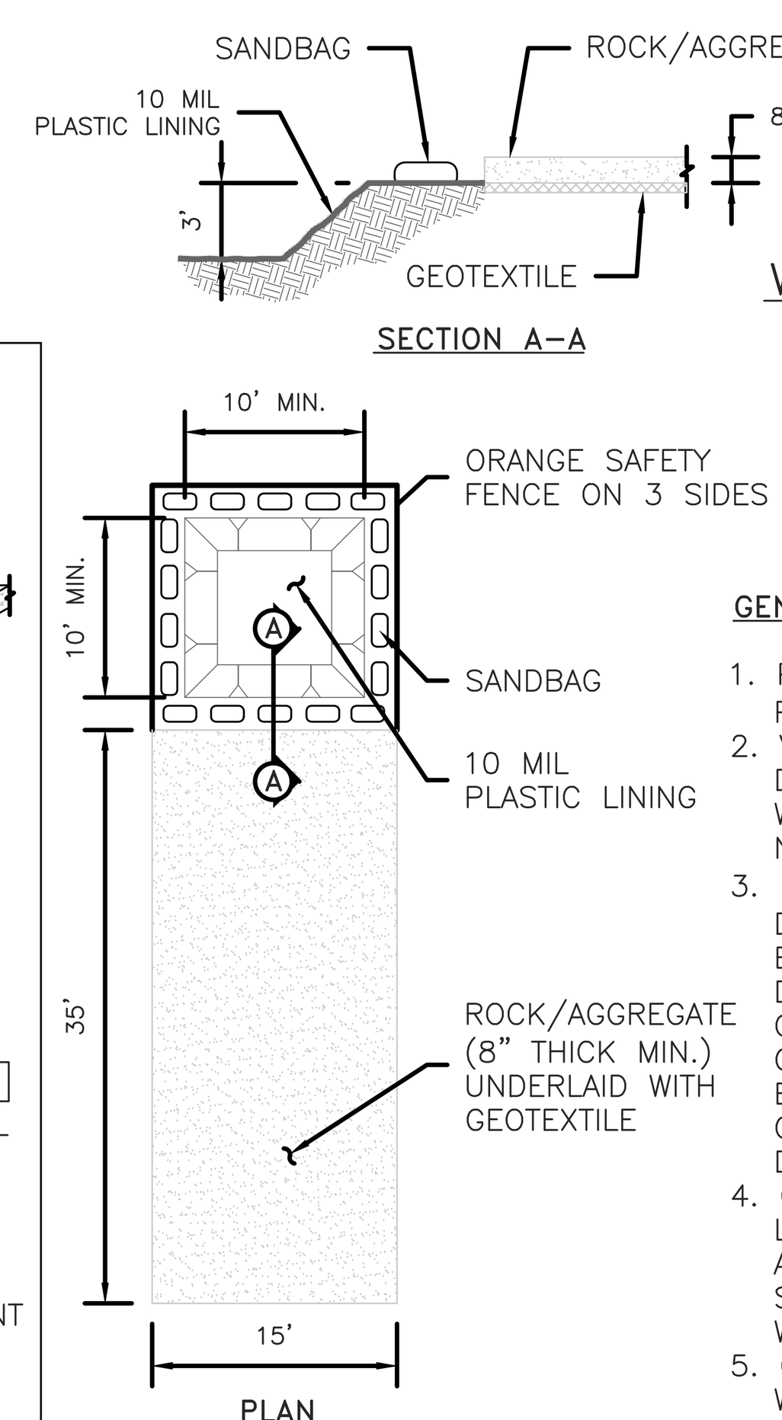


INLET PROTECTION BARRIERS FOR STAGE II INLETS

IPB-II SYMBOL

GENERAL NOTES:

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.

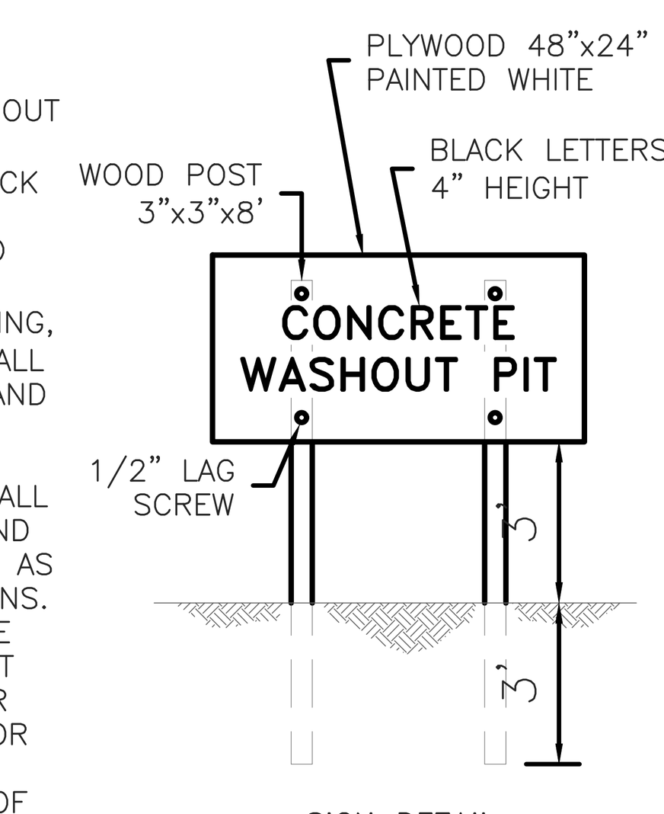


CONCRETE TRUCK WASHOUT AREA

CTW SYMBOL

GENERAL NOTES:

1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.



SIGN DETAIL (OR EQUIVALENT)

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CLEAR CREEK I.S.D.
SEABROOK, TEXAS

CCISD PROJECT NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS – PHASITH NANTHAVONGDOUANGSY – 99284 – LICENSED PROFESSIONAL ENGINEER – 11-14-2024

ISSUED: NOVEMBER 14, 2024

REVISIONS

Revision No.

Director DIR	Drawn By
Designer DSN	Quality Control QC
Proj. Arch. PA	

PROJECT NO.

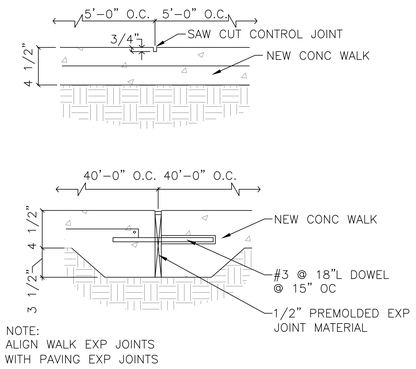
24-046.00

SHEET TITLE

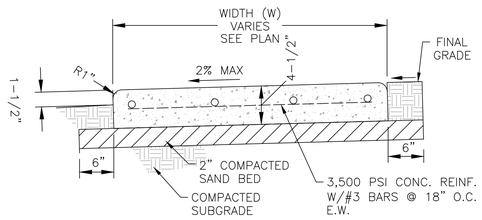
ROBE - SWPPP DETAILS

SHEET NO.

C35.00

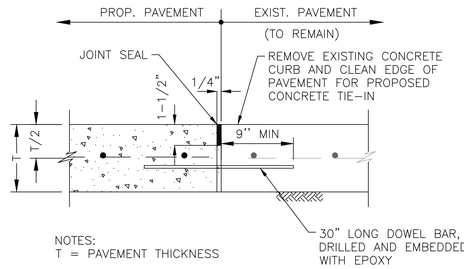


SIDEWALK CONTROL & EXPANSION JOINT

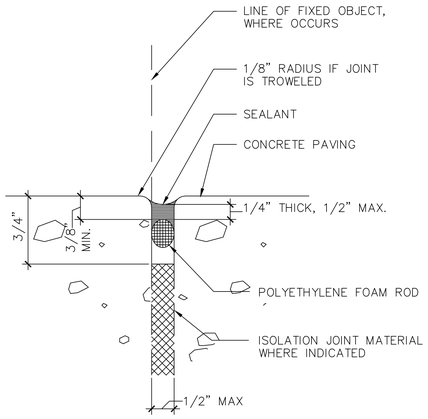


PROVIDE A SAWED JOINT SPACED EQUAL TO WIDTH (W)
AND EXPANSION JOINTS TO BE PLACED @ 4 X WIDTH

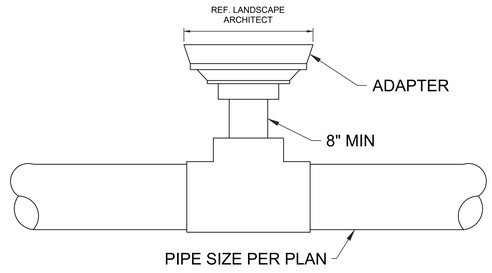
1 CONCRETE SIDEWALK DETAIL NTS



2 PROPOSED CONCRETE TO EXISTING CONCRETE TIE IN NTS



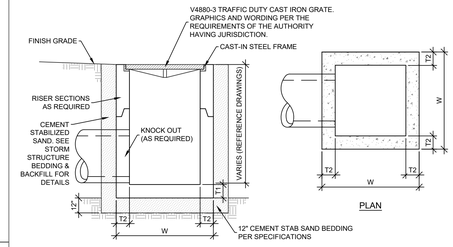
3 ISOLATION JOINT NTS



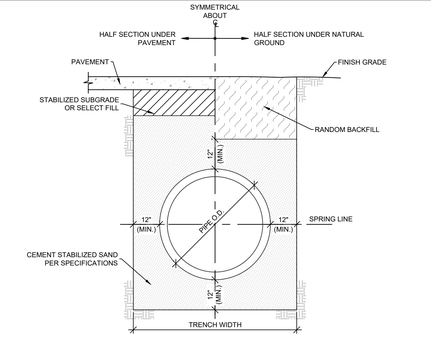
4 INLINE DRAIN CONNECTION NTS

KNOCK OUT	W	GRATE SIZE	T1	T2
10"	15"	12"X12"X1"	3"	2 1/2"
12"	20"	14"X14"X1 1/2"	4"	3"
15"	24"	18"X18"X1 1/2"	4"	4"
17"	26"	20"X20"X1 1/2"	4"	4"
22"	32"	24"X24"X2"	5"	5"
24"	37"	27"X27"X2"	6"	6"
30"	42"	32"X32"X2"	6"	6"
32"	48"	38"X38"X2"	6"	6"
48"	60"	38"X38"X2"	6"	6"
60"	72"	38"X38"X2"	6"	6"
72"	84"	38"X38"X2"	6"	6"
84"	96"	38"X38"X2"	6"	6"

NOTES:
1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS II CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL BE GRADE 60 CONFORMING TO ASTM A-615.
3. DEPTH OF INLET SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S) AND ALL PIPES.
5. ALL PIPES SHALL BE CUT FLUSH WITH THE INLET.



TYPE "A" GRATE INLET (ALL NON-PAVED AREAS) N.T.S.



NOTES:
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.

STORM SEWER BEDDING & BACKFILL N.T.S.

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CLEAR CREEK I.S.D.
SEABROOK, TEXAS

CCISD PROJECT
NO. 2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

ISSUED: NOVEMBER 14, 2024

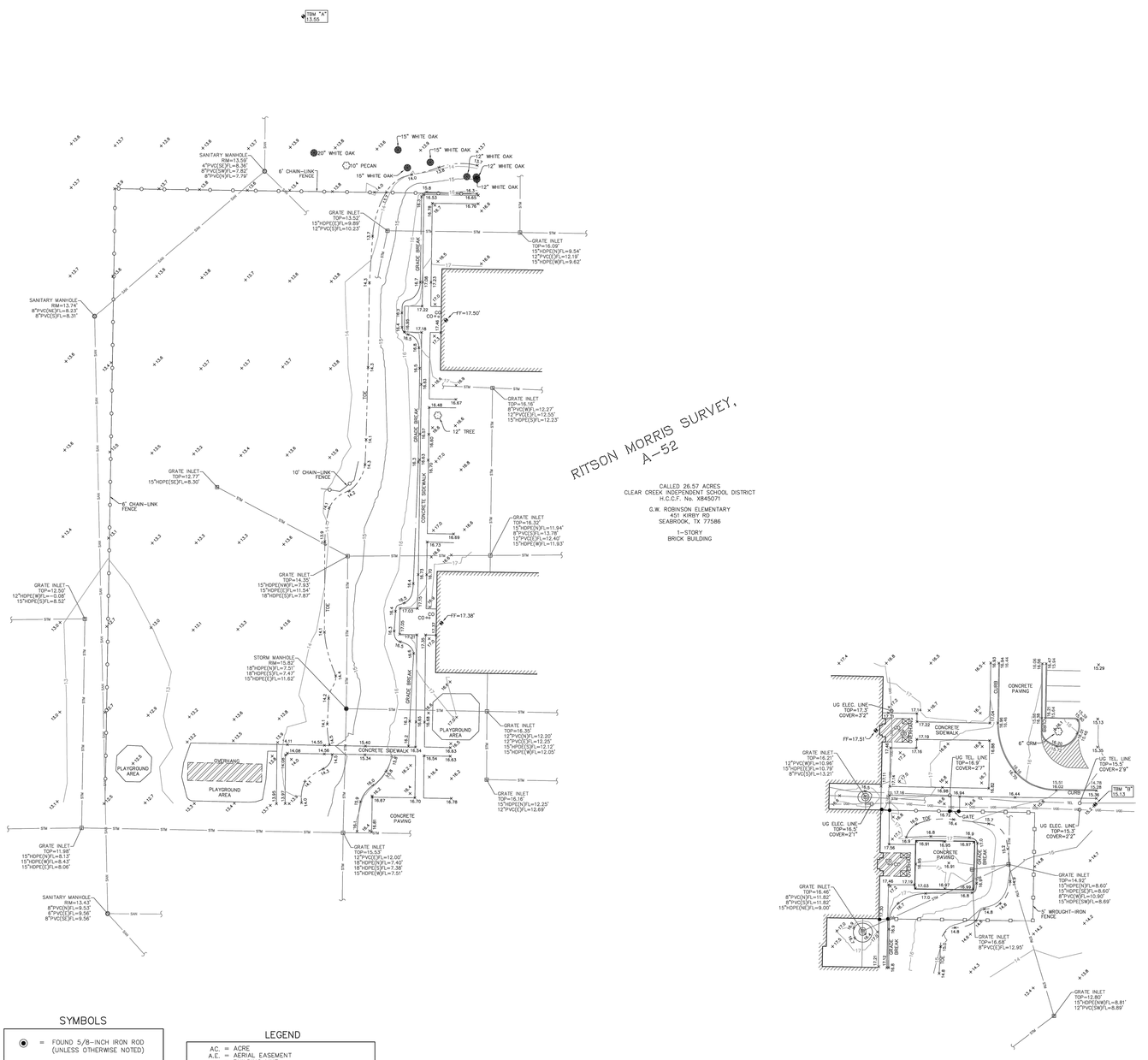
REVISIONS
Revision No.

Director — Drawn By
DIR
Designer — Quality Control
DSN — QC
Proj. Arch.
PA

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - PAVING AND GRADING DETAILS

SHEET NO.
C36.00



SYMBOLS

- = FOUND 5/8-INCH IRON ROD (UNLESS OTHERWISE NOTED)
- = SET 5/8-INCH IRON ROD W/MILLER SURVEY CAP (UNLESS OTHERWISE NOTED)
- = A.C. PAD
- = BLOW OFF VALVE
- = BOLLARD
- = CABLE BOX
- = CABLE MARKER
- = CLEAN-OUT
- = CURB INLET
- = E-INLET
- = ELECTRIC BOX
- = ELECTRIC MANHOLE
- = FIRE DEPARTMENT CONNECTION
- = FLAG POLE
- = FLUSH VALVE (FIRE HYDRANT)
- = GAS METER
- = GAS VALVE
- = GRATE INLET
- = GREASE TRAP
- = GUY ANCHOR
- = HANDICAPPED PARKING SPACE
- = IRRIGATION CONTROL VALVE
- = JUNCTION BOX
- = LIGHT STANDARD
- = WATER MANHOLE
- PM = PIPELINE MARKER
- = POWER POLE
- = POWER POLE W/LIGHT
- = SAMPLE WELL
- = SANITARY MANHOLE
- = SERVICE POLE
- = SIGN
- = SPRINKLER HEAD
- = STORM MANHOLE
- = TREE
- = TELEPHONE MANHOLE
- = TELEPHONE PEDESTAL
- = TRAFFIC SIGNAL CONTROL BOX
- = TRAFFIC SIGNAL POLE
- = WATER METER
- = WATER VALVE

LEGEND

AC.	= ACRE
A.E.	= AERIAL EASEMENT
B.L.	= BUILDING LINE
CHB	= CHORD BEARING
CHD	= CHORD LENGTH
CRM	= CREPE MYRTLES
D.E.	= DRAINAGE EASEMENT
ESMT.	= EASEMENT
H.C.C.F.	= HARRIS COUNTY CLERK'S FILE
H.C.D.R.	= HARRIS COUNTY DEED RECORDS
H.C.M.R.	= HARRIS COUNTY MAP RECORDS
H.C.F.C.D.	= HARRIS COUNTY FLOOD CONTROL DISTRICT
L.E.	= LANDSCAPE EASEMENT
LTD.	= LIMITED
No.	= NUMBER
NR	= NON-RADIAL
P.U.E.	= PUBLIC UTILITY EASEMENT
PVT.	= PRIVATE
SQ. FT.	= SQUARE FEET
SAN.S.E.	= SANITARY SEWER EASEMENT
STM.S.E.	= STORM SEWER EASEMENT
U.E.	= UTILITY EASEMENT
W.L.E.	= WATER LINE EASEMENT
P.O.B.	= POINT OF BEGINNING
P.O.C.	= POINT OF COMMENCEMENT
TYP.	= TYPICAL
I.R.	= IRON ROD
I.P.	= IRON PIPE
H.L.&P.	= HOUSTON LIGHTING AND POWER
RM	= REFERENCE MARKER
TBM	= TEMPORARY BENCHMARK
RCP	= REINFORCED CONCRETE PIPE
CMP	= CORRUGATED METAL PIPE
CPP	= CORRUGATED PLASTIC PIPE
PVC	= POLYVINYL CHLORIDE PIPE
HDPE	= HIGH-DENSITY POLYETHYLENE PIPE
FL	= FLOW LINE

LINE TYPES

- = BARBED-WIRE FENCE
- = WOOD FENCE
- = CHAIN-LINK FENCE
- = WROUGHT IRON FENCE
- OH = OVERHEAD ELECTRIC LINE
- UGE = UNDERGROUND ELECTRIC LINE
- GAS = UNDERGROUND GAS LINE
- FO = UNDERGROUND FIBER OPTIC LINE
- TEL = UNDERGROUND TELEPHONE LINE
- STM = UNDERGROUND STORM LINE
- = STORM LINE CULVERT
- SAN = UNDERGROUND SANITARY LINE
- WL = UNDERGROUND WATER LINE
- = UNDERGROUND PIPELINE
- = CURB AND GUTTER LINE
- = EDGE OF CONCRETE
- = EDGE OF ASPHALT
- = EDGE OF GRAVEL
- = HIGH BANK LINE
- = GRADE BREAK LINE
- = TOE SLOPE LINE
- = TREE LINE

NOTES:

1. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A COMMITMENT FOR TITLE INSURANCE, WITH REGARD TO ANY RECORDED EASEMENTS, RIGHTS-OF-WAY OR SETBACKS AFFECTING THE SURVEYED PROPERTY. NO ADDITIONAL RESEARCH REGARDING THE EXISTENCE OF EASEMENTS, RESTRICTIONS, OR OTHER MATTERS OF RECORD HAS BEEN PERFORMED BY THE SURVEYOR.

2. ALL BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83), AS PER GPS OBSERVATIONS.

3. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NO. 48201C1085M, EFFECTIVE DATE OF 01/06/2017, THE SURVEYED PROPERTY LIES WITHIN ZONE "X" (SHADED), AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD AND ZONE "AE", SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT, BASE FLOOD ELEVATION DETERMINED.

4. ALL UNDERGROUND UTILITIES SHOWN HEREON ARE FROM SURFACE FEATURES, VISIBLE EVIDENCE, PARTIAL FIELD LOCATION BY LONESTAR LOCATING, LLC. ALL UNDERGROUND SANITARY AND STORM SEWER LINES ARE BASED ON SURFACE LOCATIONS AND INVERTS OF MANHOLES AND STORM INLETS. ALL COVER DEPTHS ON UNDERGROUND UTILITIES ARE AS PER LONESTAR LOCATING, LLC. ALL UNDERGROUND UTILITY LOCATIONS AND COVER DEPTHS SHOWN HEREON ARE TO BE CONSIDERED APPROXIMATE AND NEED TO BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. LONESTAR LOCATING, LLC USES TRANSMISSION SIGNALS TO MARK THE LOCATION AND COVER DEPTHS OF THE UNDERGROUND UTILITIES. SOME UNDERGROUND UTILITIES SUCH AS WATER LINES, FIBER OPTIC LINES WITHOUT TRACERS, PLASTIC, FIBERGLASS AND PVC PIPES ARE NOT LOCATABLE BY TRANSMISSION SIGNALS.

5. PROJECT BENCHMARK: HCFCD RM NO. 010245 (STREAM NO. A104-00-00)
BEING A BRASS DISC STAMPED "RM 010245" IN CONCRETE SIDEWALK OVER TAYLOR BAYOU. FROM INTERSECTION SPACE CENTER BLVD AND NASA RD 1, TRAVEL +/- 1.65 MILE TO BRIDGE OVER TAYLOR LAKE. MONUMENT IS AT THE NORTHEAST CORNER OF THE BRIDGE.
ELEVATION = 11.21' NAVD88, 2001 ADJUSTMENT

6. TEMPORARY BENCHMARK (TBM) "A":
BEING A 5/8-INCH IRON ROD WITH MILLER SURVEY CAP, LOCATED +/- 165' NORTHWEST OF THE NORTHWEST CORNER OF ROBINSON ELEMENTARY. BENCHMARK IS ALSO LOCATED +/- 85' SOUTH OF THE NORTH LINE OF THE SUBJECT TRACT.
ELEVATION = 13.55' NAVD88, 2001 ADJUSTMENT

7. TEMPORARY BENCHMARK (TBM) "B":
BEING A 5/8-INCH IRON ROD WITH MILLER SURVEY CAP, LOCATED +/- 235' WEST OF THE CENTERLINE INTERSECTION THE MIDDLE ENTRANCE TO ROBINSON ELEMENTARY. BENCHMARK IS ALSO LOCATED +/- 2' SOUTH OF A CONCRETE SIDEWALK.
ELEVATION = 15.13' NAVD88, 2001 ADJUSTMENT

8. ALL ELEVATIONS AND CONTOURS PLOTTED HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), 2001 ADJUSTMENT.

G.W. ROBINSON ELEMENTARY
451 KIRBY RD
SEABROOK, TX 77586

REVISED:

PARTIAL TOPOGRAPHIC SURVEY PLAT G.W. ROBINSON ELEMENTARY

LOCATED IN THE
RITSON MORRIS SURVEY, A-52
HARRIS COUNTY, TEXAS

MILLER SURVEY
DCCM
Miller Survey | Firm Reg. No. 10047100
1760 W. Sam Houston Pkwy N.
Houston, TX 77043
713.413.1900 | millersurvey.com

JOB No.: 4752-DS	SCALE: 1"= 30'	DATE: 08/21/2024	FIELD BOOK: 24-039/GG
DWG. No.: 4752-DS.DWG	DRAWN BY: NPR	CHECKED BY: ARP	M&B No.: N/A

V31.00

SHEET NO.

ROBE TOPOGRAPHIC SURVEY

SHEET TITLE

24-046.00

PROJECT NO.

Director
DIR
Designer
DSN
Prof. Arch.
PA

Drawn By
Quality Control
QC

Revision No.

ISSUED: NOVEMBER 14, 2024

REVISIONS

FOR INFORMATION ONLY

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CCISD Priority Repairs - FAPE GOFE ROBE

CCISD PROJECT NO. 2025.402

CLEAR CREEK I.S.D.
SEABROOK, TEXAS

N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT A
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
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3. Contact the Owner prior to the start of demolition to determine items to be salvaged and returned to Owner.
4. Protect items to remain from damage during demolition.
5. Repair or replace at no cost to the Owner any damages to the existing building and site as a result of construction activities.
6. Refer to electrical and mechanical demolition plan for additional information.
7. Patch/repair flooring to match existing at all removed or demolished doors, windows, walls, millwork, lockers and similar items.
8. GC to remove and protect existing furniture and metal shelving during construction. GC to install in exact location of scope of work to be completed.
9. Floor finish to not impede existing drain cleanout.
10. Remove and reinstall metal shelving at same location prior to floor removal/installation.
11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.
12. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE. RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
DD5	PREP HOLLOW METAL DOOR AND/OR FRAME FOR PAINT. REF: FINISH SCHEDULE
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD3	PREP EXISTING HARDWOOD FLOORING FOR RESTAIN AND RESEAL
MD7	REMOVE EXISTING HANDRAIL. PREPARE WALL AND PLUG EXISTING HOLES AS NEEDED TO RECEIVE NEW HANDRAIL. REPAINT PATCHES.
MD9	REMOVE EXISTING KILN FOR PREPARATION OF NEW FLOORING. GC TO INSTALL IN EXACT LOCATION

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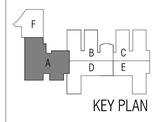
CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - DEMO PLAN - UNIT A

SHEET NO.
A32.01A

1 FLOOR PLAN - DEMO - UNIT B

SCALE: 1/8" = 1'-0"

PLAN NORTH · TRUE NORTH

DEMOLITION NOTES

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10. Remove and reinstall metal shelving at same location prior to floor removal/installation.
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12. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE, RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
DD5	PREP HOLLOW METAL DOOR AND/OR FRAME FOR PAINT. REF: FINISH SCHEDULE
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD3	PREP EXISTING HARDWOOD FLOORING FOR RESTAIN AND RESEAL
FD6	REMOVE AND REPLACE INTERIOR SHELVING FOR INSTALLATION OF SCHEDULED FLOOR FINISHES. SCHEDULED FLOORING TO NOT COVER EXISTING ELECTRICAL FLOOR OUTLETS.

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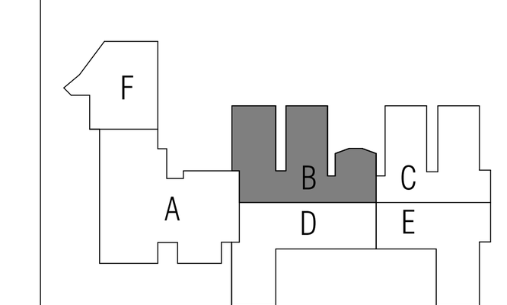
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

REGISTERED ARCHITECT · MELISSA E. FLEMING · 20313 · STATE OF TEXAS
11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director Approver	Drawn By Author
Designer Designer	Quality Control
Proj. Arch. Checker	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - DEMO PLAN - UNIT B

SHEET NO.
A32.01B

CCISD Priority Repairs - FAPE GOFE ROBE

PLAN NORTH TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT C
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

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8. GC to remove and protect existing furniture and metal shelving during construction. GC to install in exact location of scope of work to be completed.
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10. Remove and reinstall metal shelving at same location prior to floor removal/installation.
11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.
12. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

DD3	REMOVE EXISTING DOOR HARDWARE, RETURN TO OWNER. PREPARE DOOR AND PLUG EXISTING HOLES (IF NECESSARY) TO RECEIVE NEW HARDWARE, REF. DOOR SCHEDULE.
DD5	PREP HOLLOW METAL DOOR AND/OR FRAME FOR PAINT. REF: FINISH SCHEDULE
FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.

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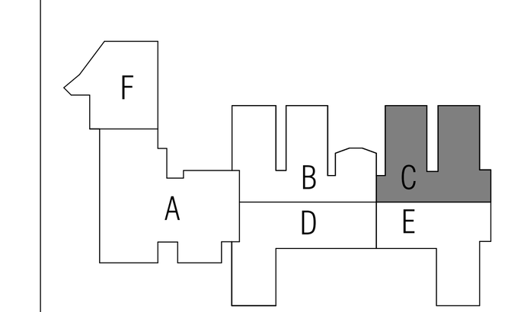
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

REGISTERED ARCHITECT
STATE OF TEXAS
11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No. Revision Date

Director Approver
Drawn By Author
Designer Designer
Quality Control
Proj. Arch. Checker

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - DEMO PLAN - UNIT C

SHEET NO.
A32.01C

CCISD Priority Repairs - FAPE GOFE ROBE

DEMOLITION NOTES

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DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

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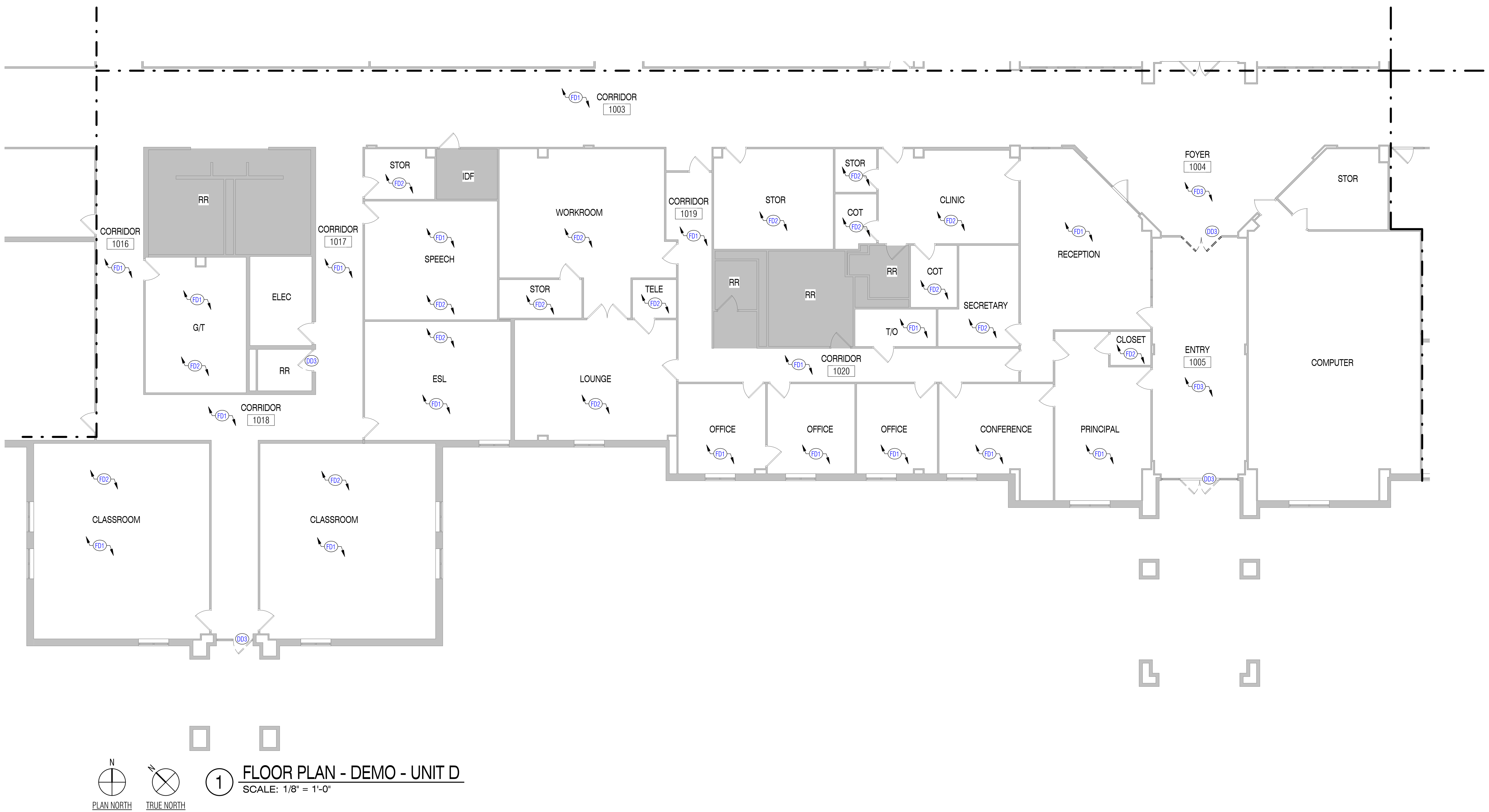
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD3	PREP EXISTING HARDWOOD FLOORING FOR RESTAIN AND RESEAL



1 FLOOR PLAN - DEMO - UNIT D
SCALE: 1/8" = 1'-0"

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SEABROOK, TEXAS

CCISD PROJECT NO:
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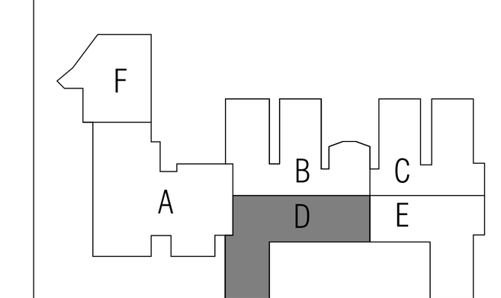

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director Approver	Drawn By Author
Designer Designer	Quality Control
Proj. Arch. Checker	

PROJECT NO.

24-046.00

SHEET TITLE

ROBE - DEMO PLAN - UNIT D

SHEET NO.

A32.01D

CCISD Priority Repairs - FAPE GOFE ROBE

DEMOLITION NOTES

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DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

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FD1	REMOVE EXISTING CARPET FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
WD2	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION, PREP FOR VINYL WALL COVERING FINISH. REMOVE AND REINSTALL ALL ROOM SIGNAGE.

N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - DEMO - UNIT E
SCALE: 1/8" = 1'-0"

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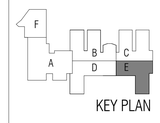
CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

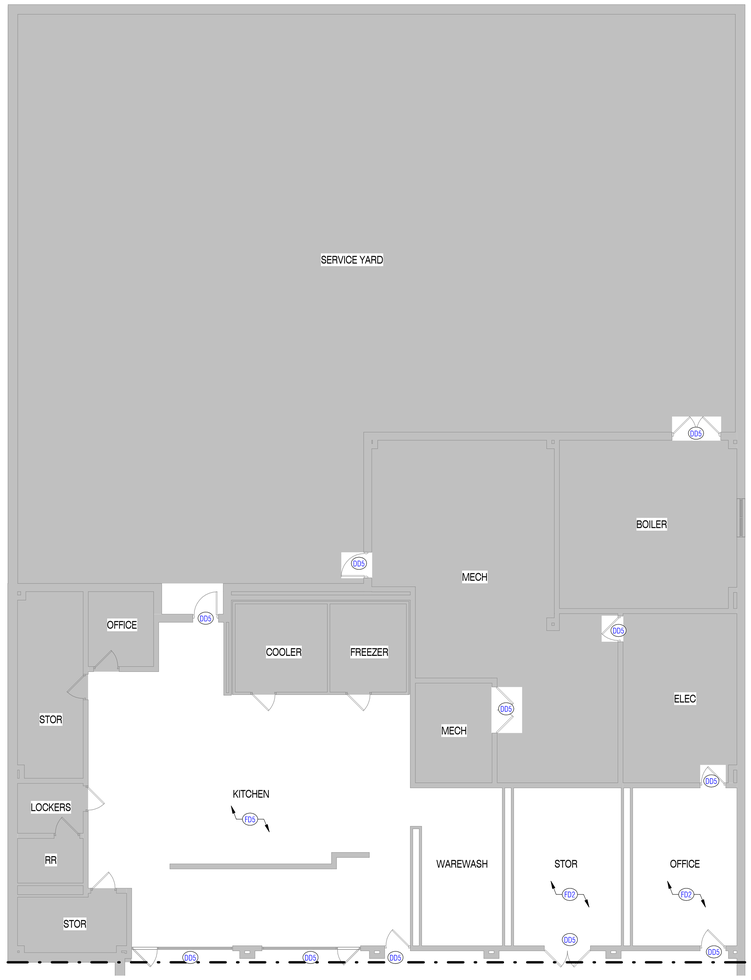
Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - DEMO PLAN - UNIT E

SHEET NO.
A32.01E



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12. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

DEMOLITION LEGEND

▨ NOT IN SCOPE

DEMOLITION KEYED NOTES

DD5	PREP HOLLOW METAL DOOR AND/OR FRAME FOR PAINT. REF: FINISH SCHEDULE
FD2	REMOVE EXISTING VCT FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH.
FD5	REMOVE EXISTING TILE FINISH AND WALL BASE. PREPARE SLAB TO RECEIVE NEW FINISH. GC TO REMOVE AND REINSTALL ALL KITCHEN EQUIPMENT IN SAME LOCATION

1 FLOOR PLAN - DEMO - UNIT F
SCALE: 1/8" = 1'-0"

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ARCHITECT

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CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

MELISSA E. FLEMING
26313
11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director
Approver
Designer
Designer
Proj. Arch.
Checker

Drawn By
Author
Quality Control

PROJECT NO.
24-046.00

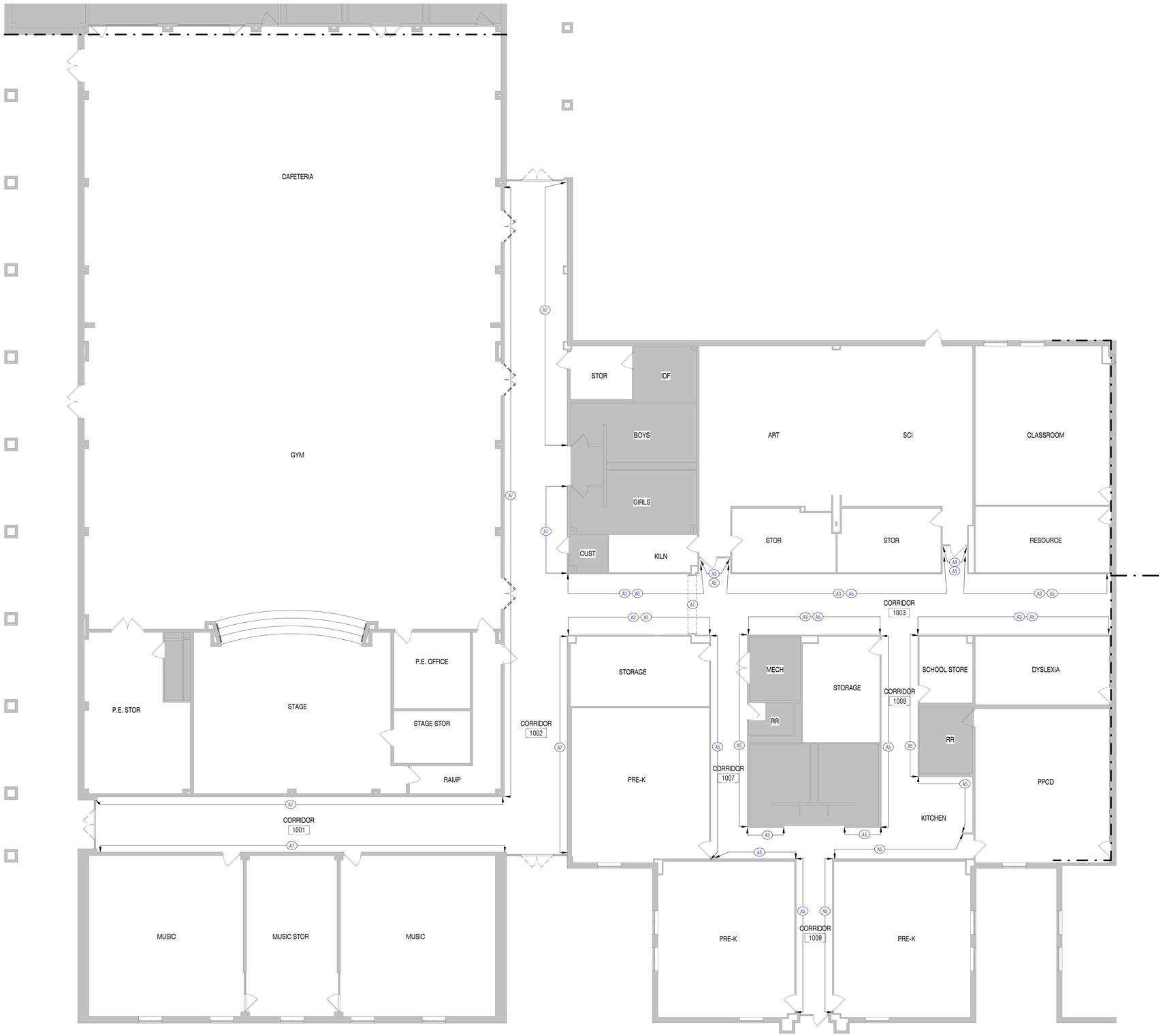
SHEET TITLE
ROBE - DEMO PLAN - UNIT F

SHEET NO.
A32.01F

CCISD Priority Repairs - FAPE GOFE ROBE

ALTERNATE KEYNOTES

A3	TILE WAINSCOT THROUGHOUT MAIN CORRIDOR. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A5	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION. INSTALL VINYL WALL COVERING THROUGHOUT. REMOVE AND REINSTALL ALL ROOM SIGNAGE IF VINYL WALLCOVERING IS BEING INSTALLED.
A7	REPAINT THROUGHOUT, INCLUDING HANDRAILS AND EXPOSED STRUCTURE.



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT A
SCALE: 1/8" = 1'-0"

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ARCHITECT

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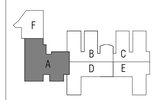
CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

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Designer	
Proj. Arch.	
Checker	

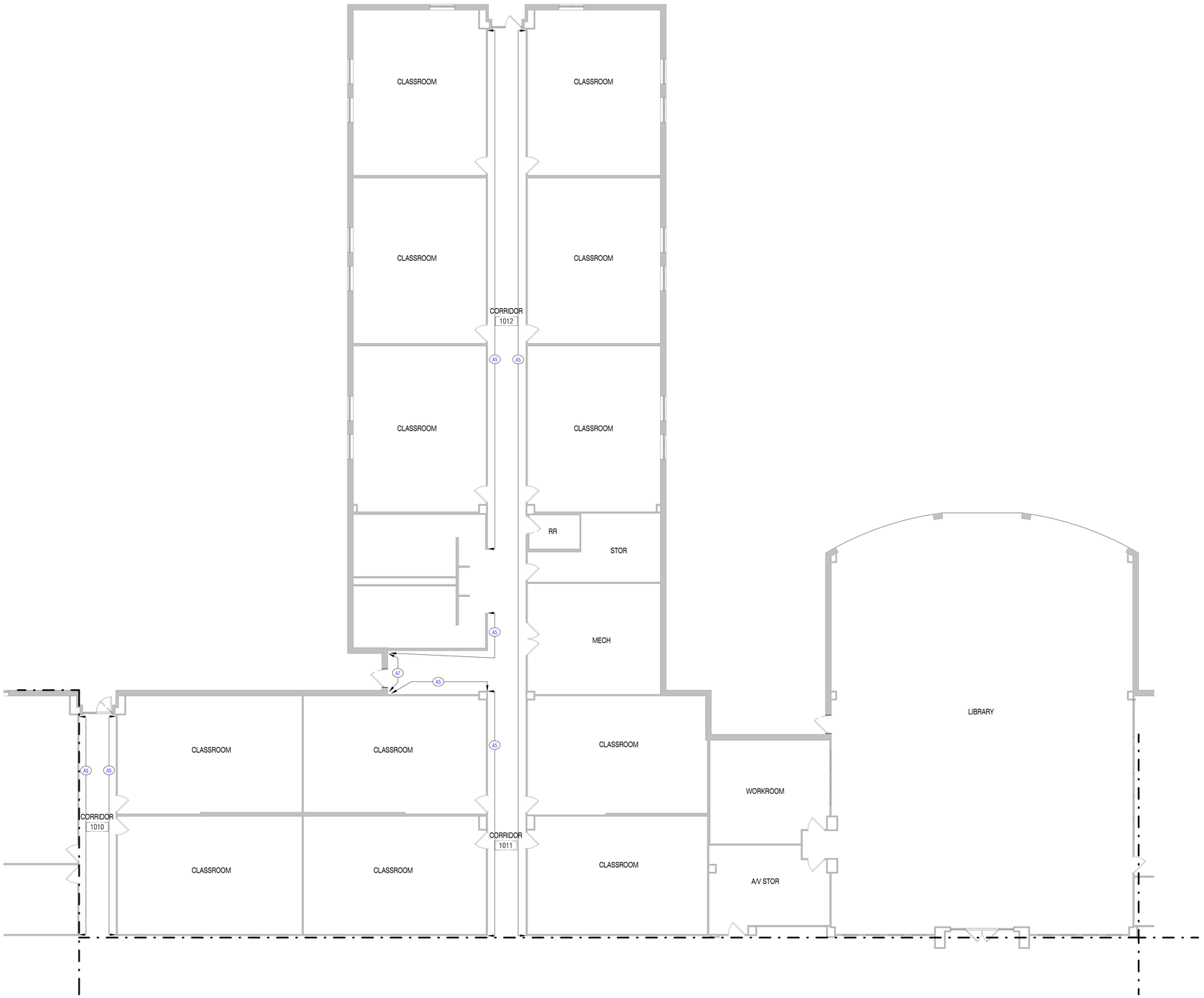
PROJECT NO.
24-046.00

SHEET TITLE
ROBE - ALTERNATE PLAN - UNIT A

SHEET NO.
A32.03A

ALTERNATE KEYNOTES

A5	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION. INSTALL VINYL WALL COVERING THROUGHOUT. REMOVE AND REINSTALL ALL ROOM SIGNAGE IF VINYL WALLCOVERING IS BEING INSTALLED.
A7	REPAINT THROUGHOUT, INCLUDING HANDRAILS AND EXPOSED STRUCTURE.



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT B
SCALE: 1/8" = 1'-0"

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CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

REGISTERED ARCHITECT
MELINDA E. FLEMING
STATE OF TEXAS

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

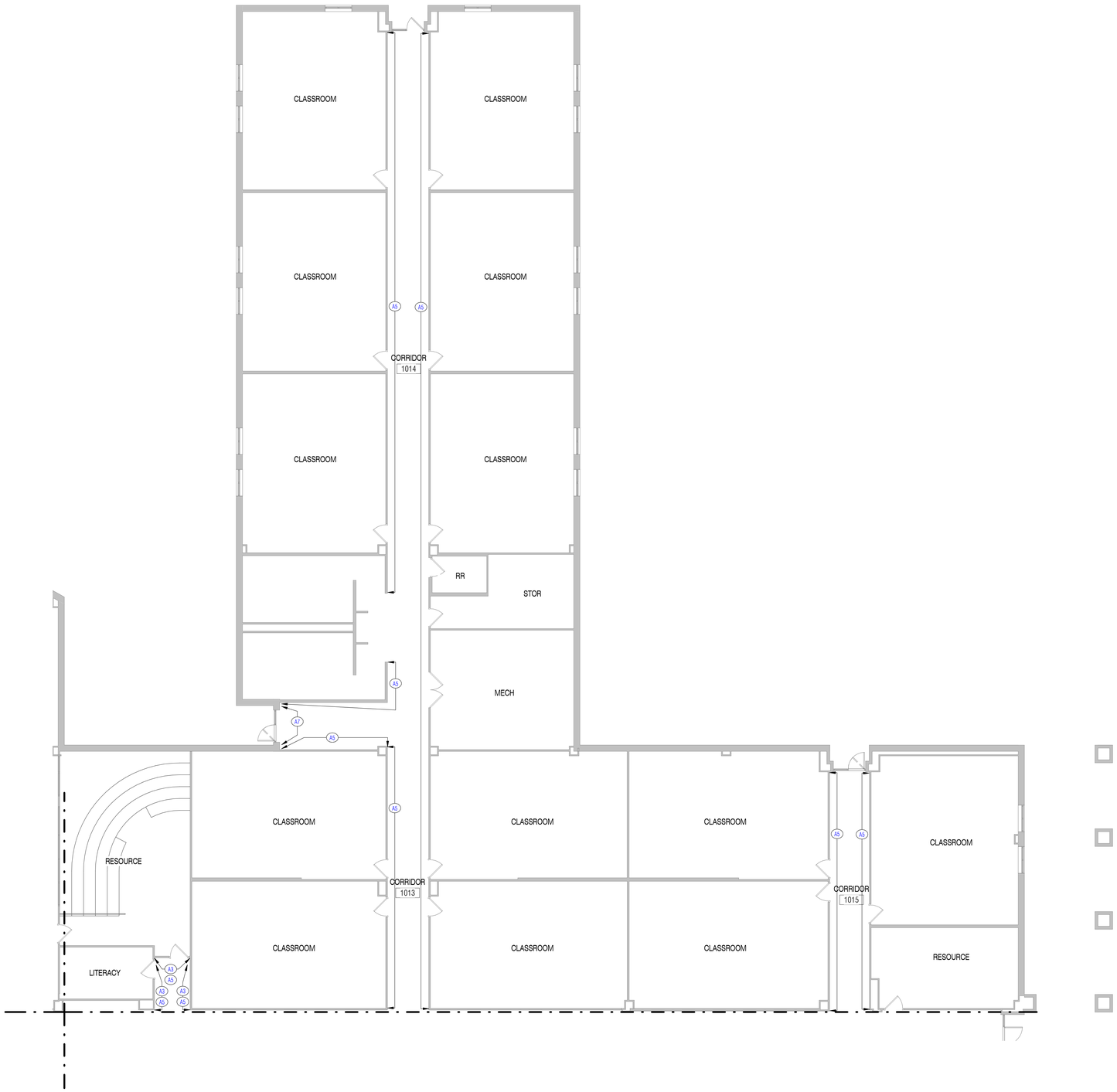
SHEET TITLE
ROBE - ALTERNATE PLAN - UNIT B

SHEET NO.
A32.03B

CCISD Priority Repairs - FAPE GOFE ROBE

ALTERNATE KEYNOTES

A3	TILE WAINSCOT THROUGHOUT MAIN CORRIDOR. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A5	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION. INSTALL VINYL WALL COVERING THROUGHOUT. REMOVE AND REINSTALL ALL ROOM SIGNAGE IF VINYL WALLCOVERING IS BEING INSTALLED.
A7	REPAINT THROUGHOUT, INCLUDING HANDRAILS AND EXPOSED STRUCTURE.



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT C
SCALE: 1/8" = 1'-0"

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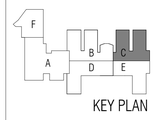
CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

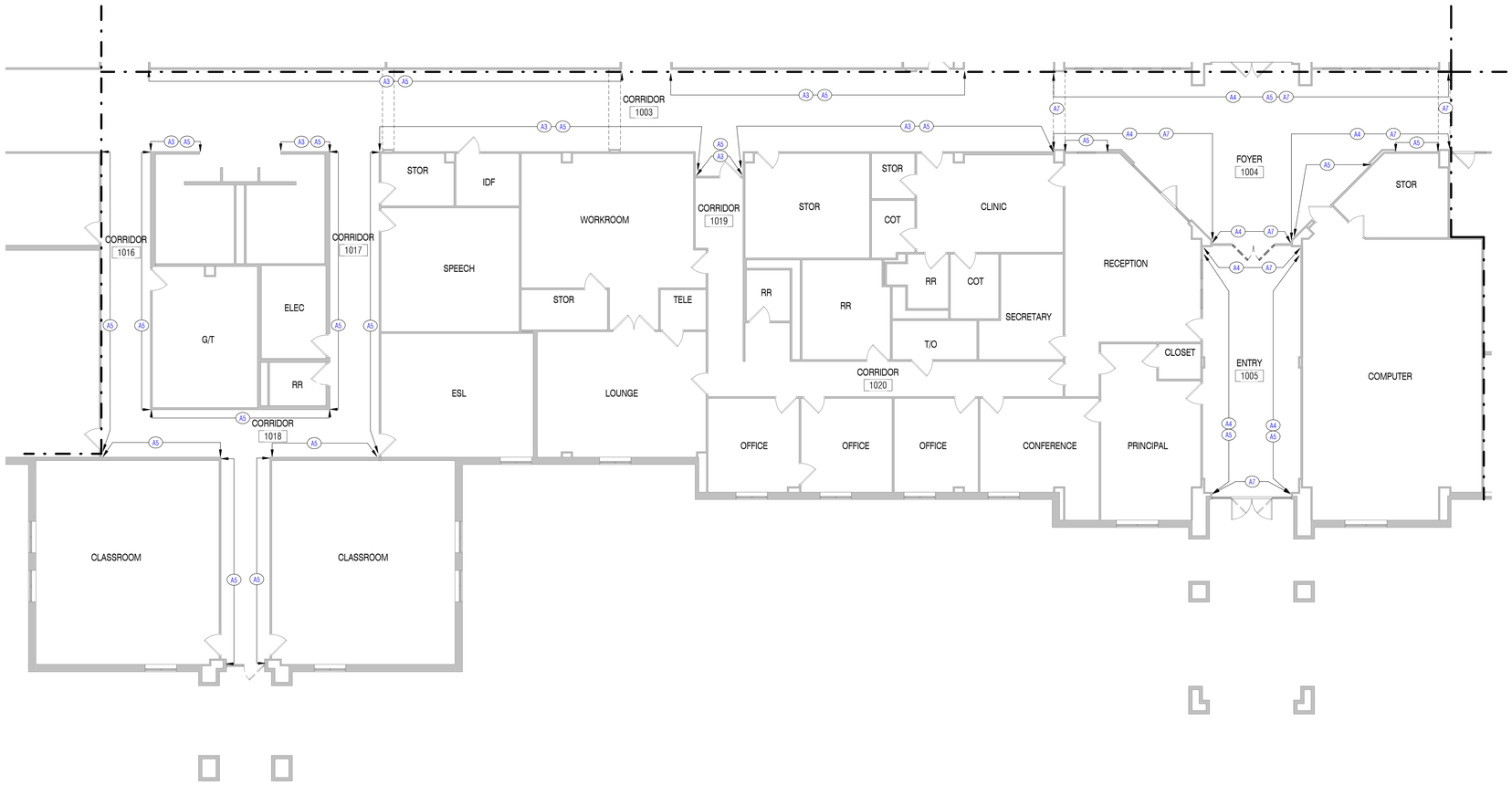
PROJECT NO.
24-046.00

SHEET TITLE
ROBE - ALTERNATE PLAN - UNIT C

SHEET NO.
A32.03C

ALTERNATE KEYNOTES

A3	TILE WAINSCOT THROUGHOUT MAIN CORRIDOR. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A4	TILE WAINSCOT AT FRONT AND LIBRARY ENTRY. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. REMOVE WOOD CHAIR RAILING EDGING. REMOVE AND REINSTALL SHELVING IF NEEDED. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A5	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION. INSTALL VINYL WALL COVERING THROUGHOUT. REMOVE AND REINSTALL ALL ROOM SIGNAGE IF VINYL WALLCOVERING IS BEING INSTALLED.
A7	REPAINT THROUGHOUT, INCLUDING HANDRAILS AND EXPOSED STRUCTURE.



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT D
SCALE: 1/8" = 1'-0"

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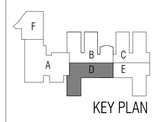
CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

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Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

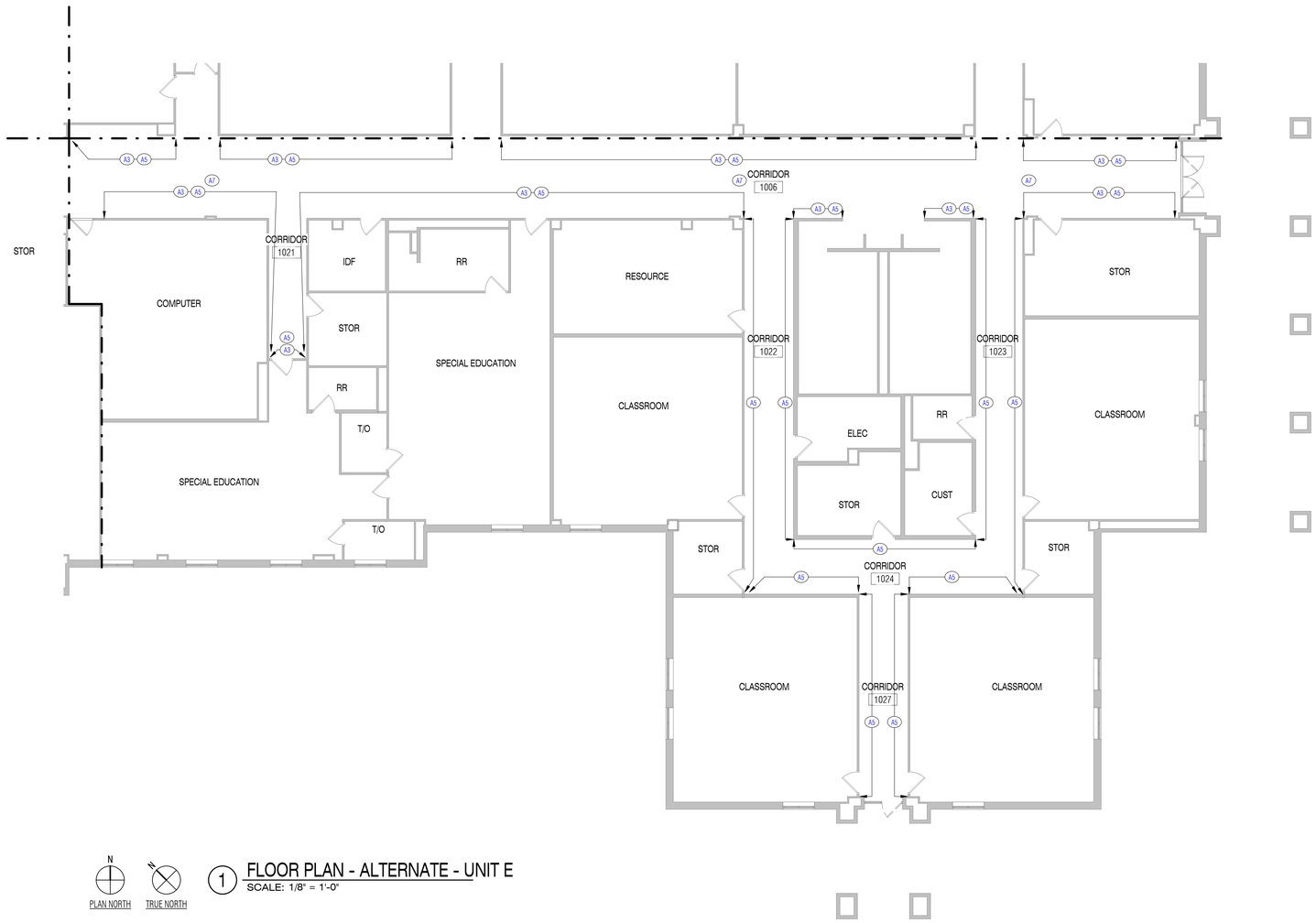
PROJECT NO.
24-046.00

SHEET TITLE
ROBE - ALTERNATE PLAN - UNIT D

SHEET NO.
A32.03D

ALTERNATE KEYNOTES

A3	TILE WAINSCOT THROUGHOUT MAIN CORRIDOR. REMOVE AND REINSTALL ALL FIXED EQUIPMENT AND FURNITURE AT PARTITIONS SCHEDULED TO RECEIVE INSTALLATON OF WAINSCOT. IF WAINSCOT IS ACCEPTED THEN CORNER GUARDS ARE TO BE OMITTED FROM SCOPE OF WORK.
A5	TAPE AND FLOAT EXISTING DEMOUNTABLE PARTITION. INSTALL VINYL WALL COVERING THROUGHOUT. REMOVE AND REINSTALL ALL ROOM SIGNAGE IF VINYL WALLCOVERING IS BEING INSTALLED.
A7	REPAINT THROUGHOUT, INCLUDING HANDRAILS AND EXPOSED STRUCTURE.



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT E
SCALE: 1/8" = 1'-0"

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CCISD PROJECT NO:
2025.402

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

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Approver	Author
Designer	Quality Control
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24-046.00

SHEET TITLE

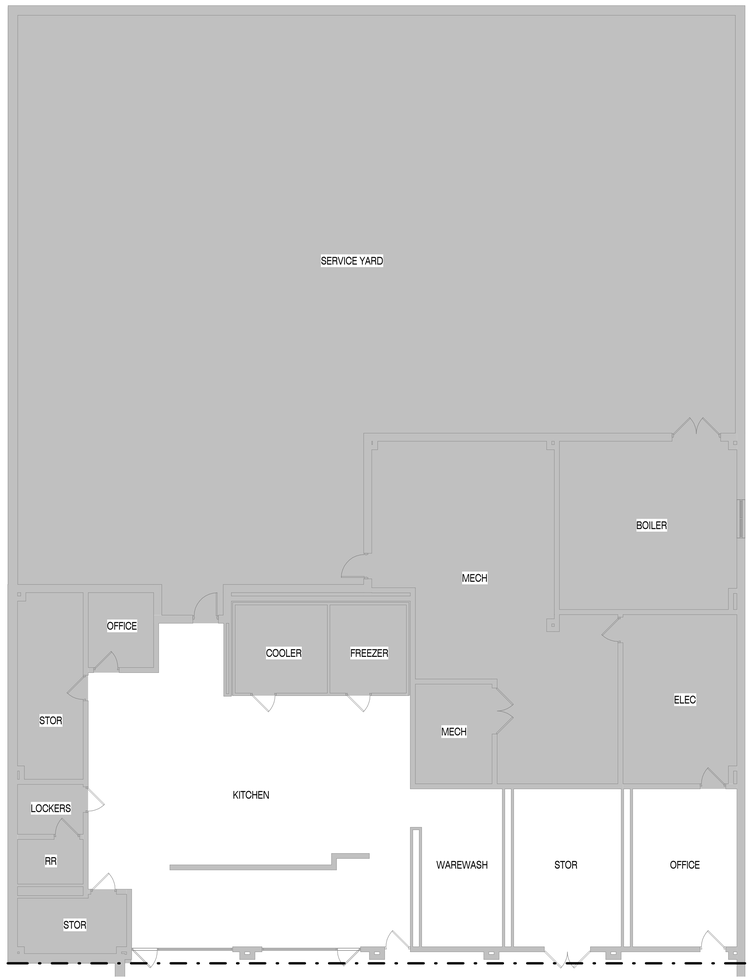
ROBE - ALTERNATE PLAN - UNIT E

SHEET NO.

A32.03E

CCISD Priority Repairs - FAPE GOFE ROBE

ALTERNATE KEYNOTES



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - ALTERNATE - UNIT F
SCALE: 1/8" = 1'-0"

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CCISD PROJECT NO:
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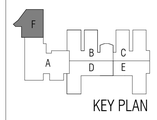

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

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Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
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Checker	

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24-046.00

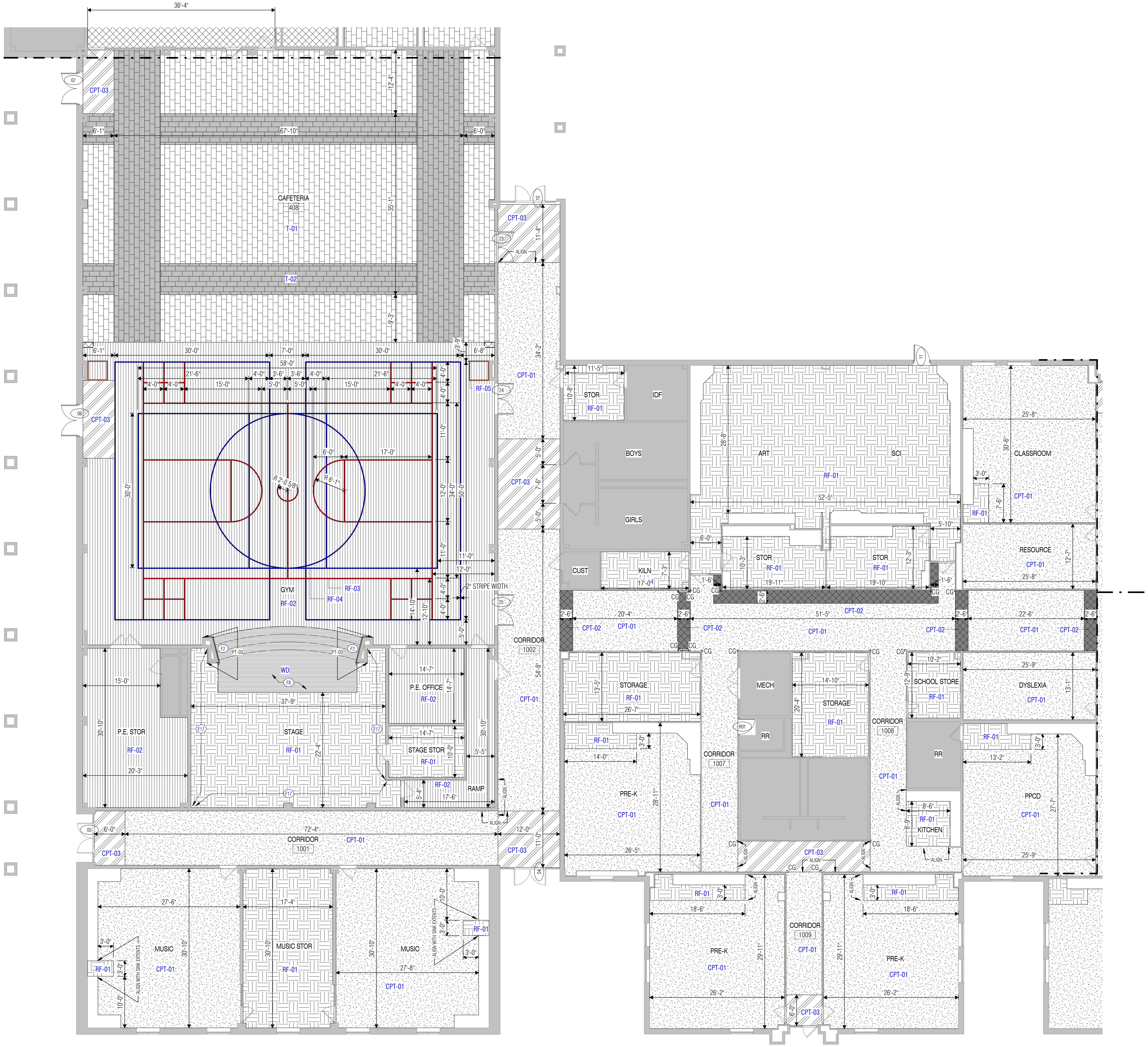
SHEET TITLE

ROBE - ALTERNATE PLAN - UNIT F

SHEET NO.

A32.03F

CCISD Priority Repairs - FAPE GOFE ROBE



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - UNIT A
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

CO-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
RF-05	RESILIENT FLOOR - ORANGE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING
EP-01	RESINOUS, POURED FLOOR

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
- · - · -	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

	NOT IN SCOPE

FLOOR PLAN KEYED NOTES

F2	STAINLESS STEEL HANDRAIL
F8	WOOD TO BE REFINISHED, STAINED, AND SEALED
F17	BC-02 AT STAGE EXTENTS.

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SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN
F A B C D E

11/14/2024

ISSUED: 11/14/2024

REVISIONS

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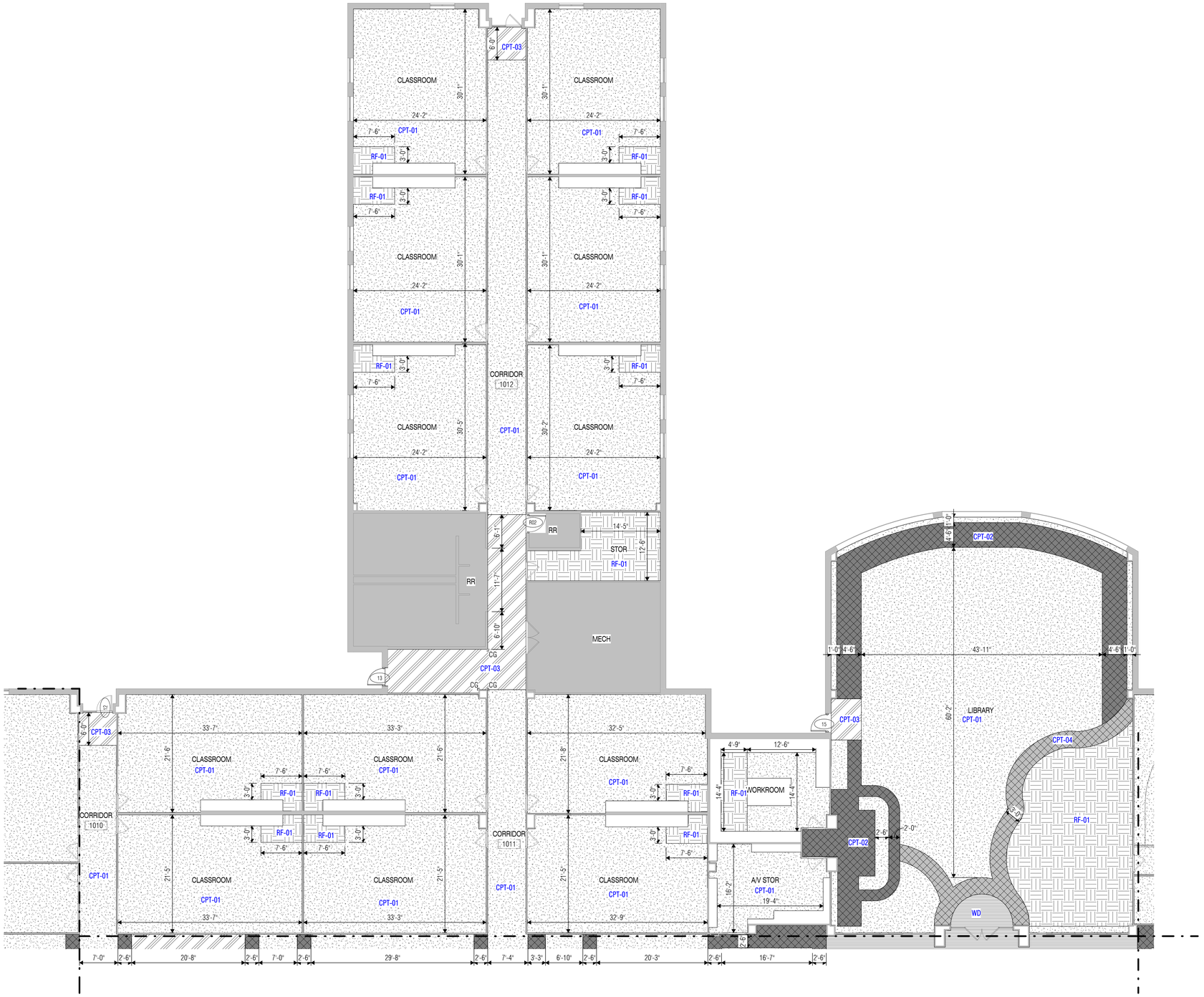
Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - FLOOR PLAN - UNIT A

SHEET NO.
A32.11A

CCISD Priority Repairs - FAPE GOFE ROBE



1 FLOOR PLAN - UNIT B
SCALE: 1/8" = 1'-0"

PLAN NORTH TRUE NORTH

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
RF-05	RESILIENT FLOOR - ORANGE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING
EP-01	RESINOUS, POURED FLOOR

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

FLOOR PLAN KEYED NOTES

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SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

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Director	Drawn By
Approver	Author
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Designer	
Proj. Arch.	
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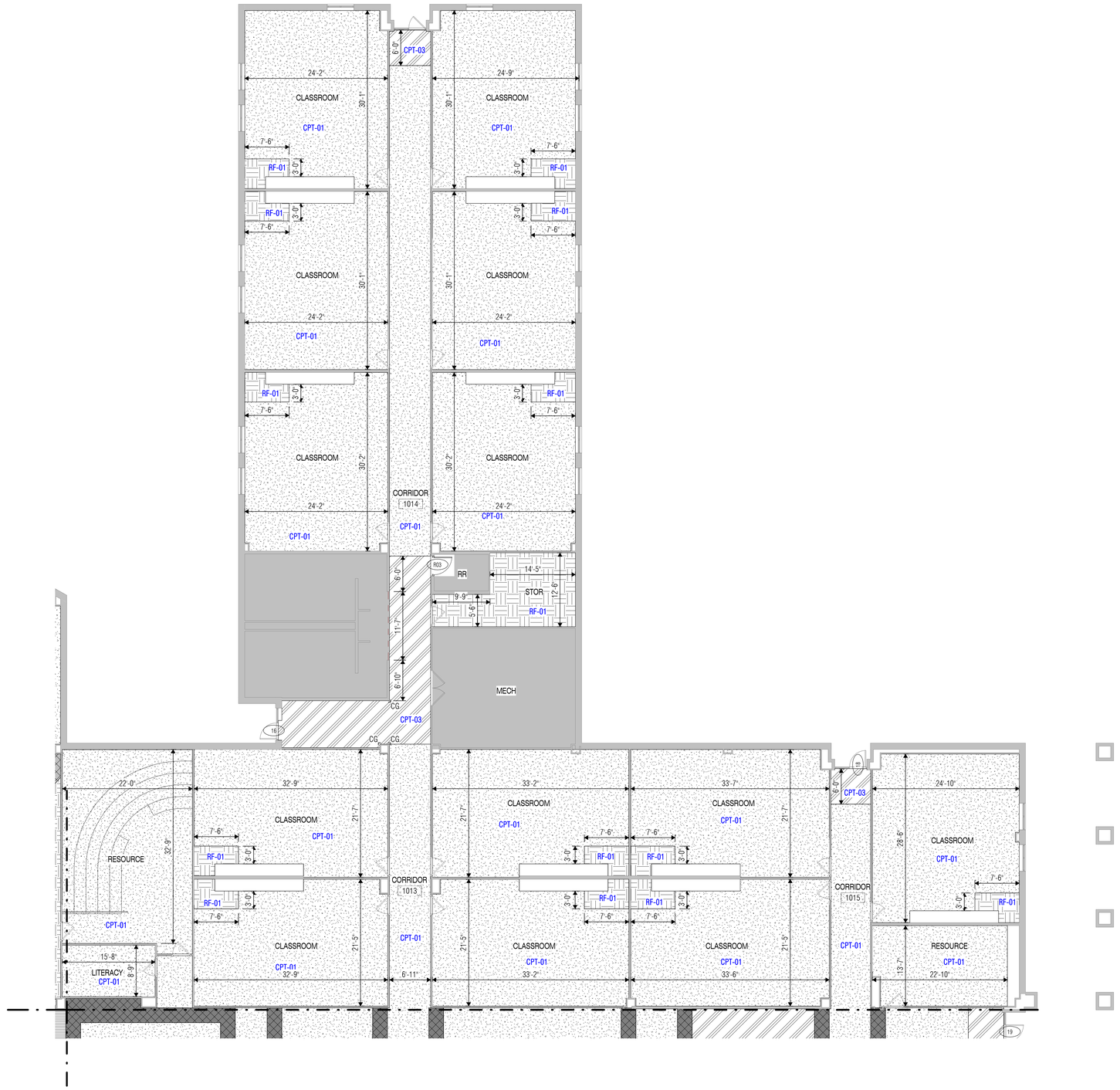
PROJECT NO.
24-046.00

SHEET TITLE
ROBE - FLOOR PLAN - UNIT B

SHEET NO.
A32.11B

CCISD Priority Repairs - FAPE GOFE ROBE



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - UNIT C
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
RF-05	RESILIENT FLOOR - ORANGE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING
EP-01	RESINOUS, POURED FLOOR

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
-·-·-·-	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

FLOOR PLAN KEYED NOTES

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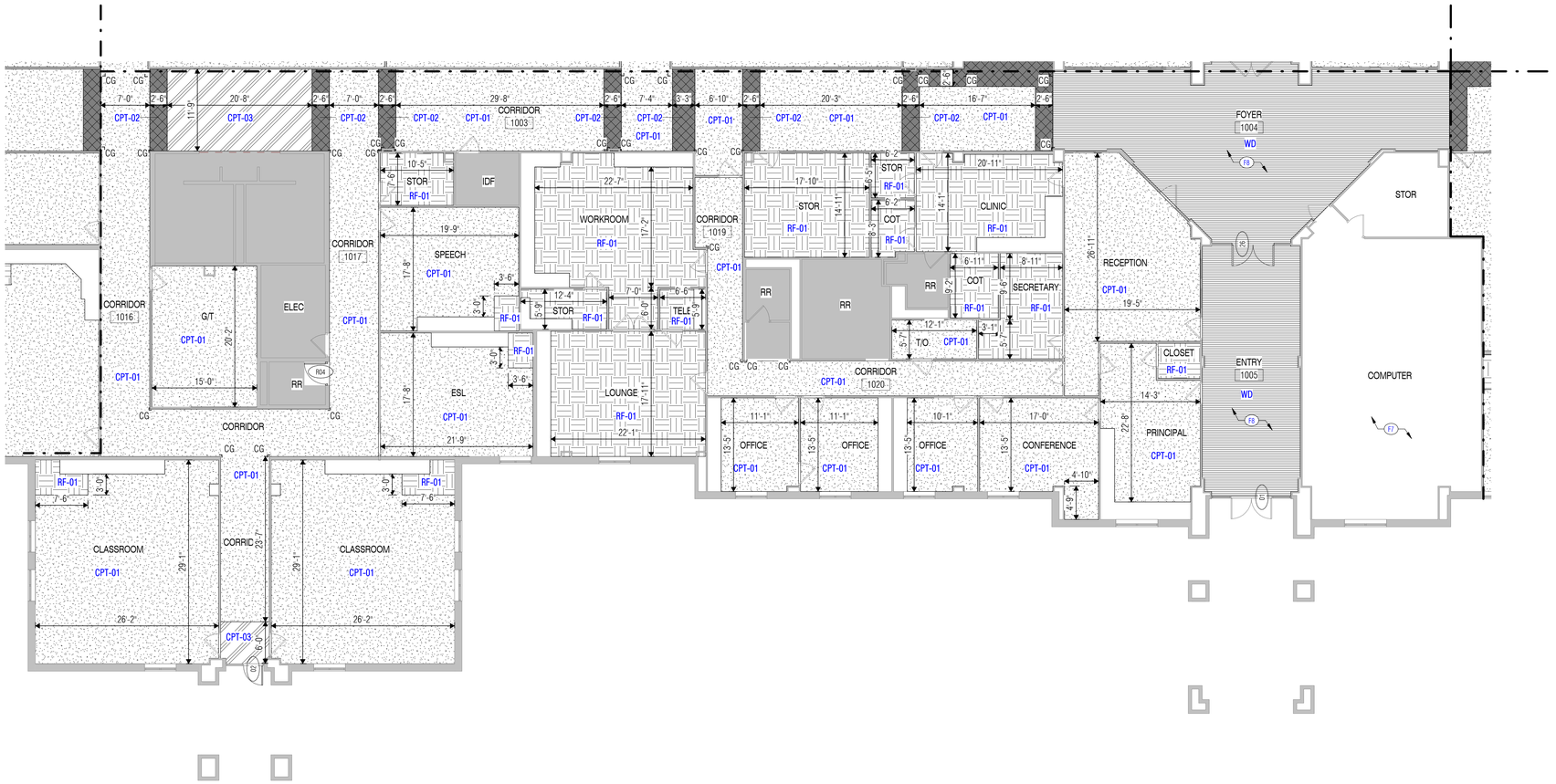
PROJECT NO.
24-046.00

SHEET TITLE
ROBE - FLOOR PLAN - UNIT C

SHEET NO.
A32.11C

CCISD Priority Repairs - FAPE GOFE ROBE



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - UNIT D
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
RF-05	RESILIENT FLOOR - ORANGE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING
EP-01	RESINOUS, POURED FLOOR

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

	NOT IN SCOPE

FLOOR PLAN KEYED NOTES

F7	(1) UNINSTANTIATED ROLLED CARPET BE PROVIDED TO CCISD FOR INSTALLATION AT A LATER TIME
F8	WOOD TO BE REFINISHED, STAINED, AND SEALED

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CCISD PROJECT NO:
2025.402

KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director
Approver
Designer
Designer
Proj. Arch.
Checker

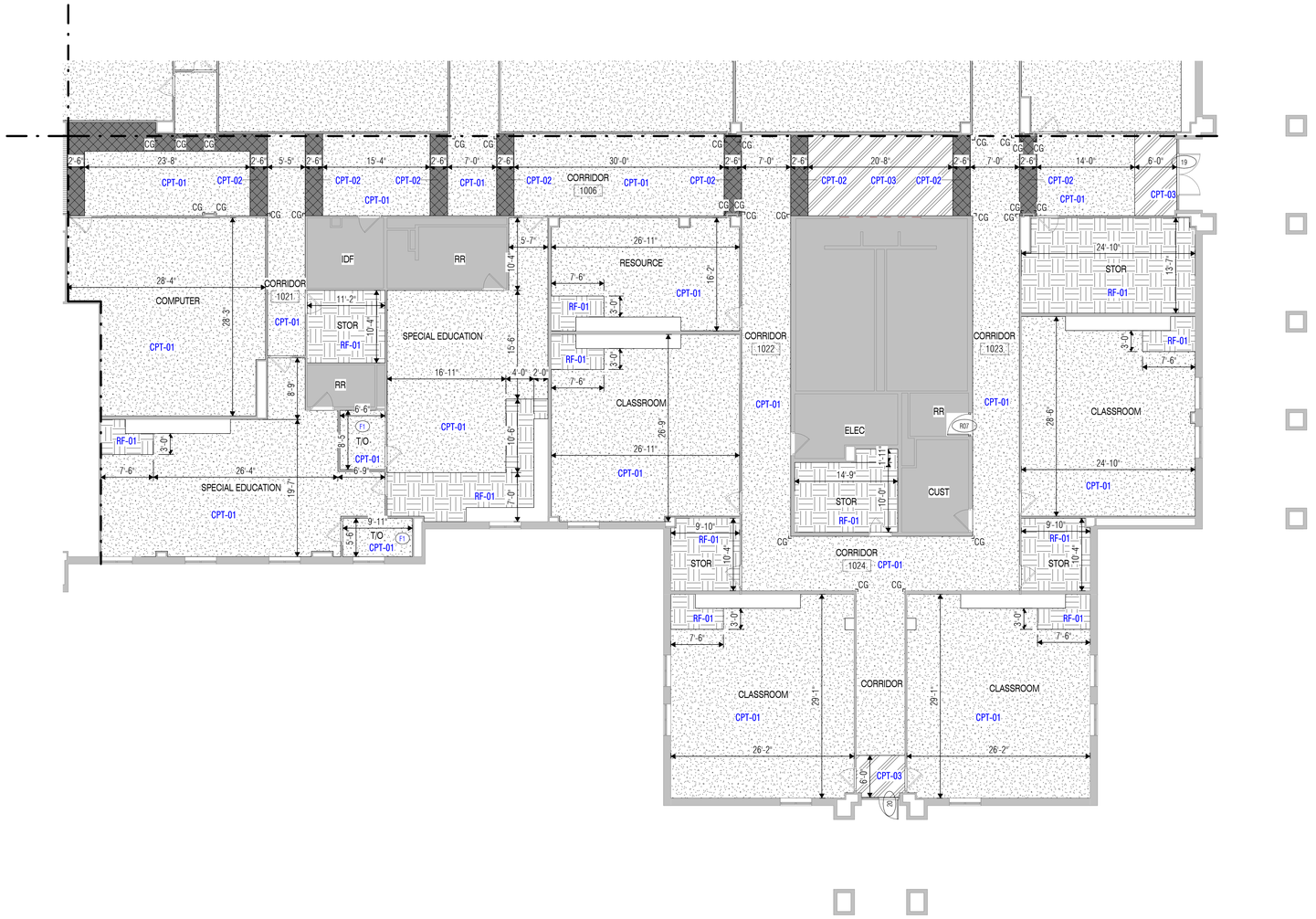
Drawn By
Author
Quality Control

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - FLOOR PLAN - UNIT D

SHEET NO.
A32.11D

CCISD Priority Repairs - FAPE GOFE ROBE



1 FLOOR PLAN - UNIT E
SCALE: 1/8" = 1'-0"

PLAN NORTH TRUE NORTH

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
RF-05	RESILIENT FLOOR - ORANGE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING
EP-01	RESINOUS, POURED FLOOR

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

NOT IN SCOPE

FLOOR PLAN KEYED NOTES

F1	WALL PADS

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Designer	
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Checker	

PROJECT NO.

24-046.00

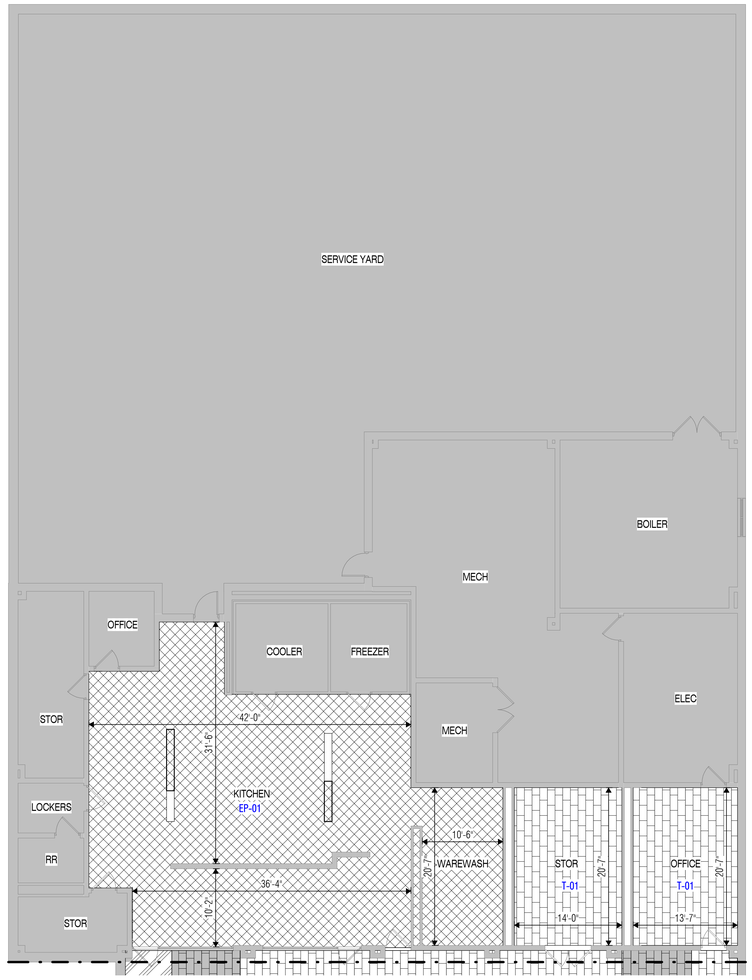
SHEET TITLE

ROBE - FLOOR PLAN - UNIT E

SHEET NO.

A32.11E

CCISD Priority Repairs - FAPE GOFE ROBE



N
PLAN NORTH
TRUE NORTH

1 FLOOR PLAN - UNIT F
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. GC to field verify floor finish dimensions with existing casework extents.
2. GC IS RESPONSIBLE FOR RELOCATION OF ALL FURNITURE BEFORE AND AFTER INSTALLATION OF SCHEDULED FLOORING.

INTERIOR FINISH LEGEND

C0-01	CONCRETE, SEALED
CPT-01	CARPET - PRIMARY
CPT-02	CARPET - ACCENT
CPT-03	CARPET - WALK-OFF
RF-01	RESILIENT FLOOR - FIELD
RF-02	RESILIENT FLOOR - GYMNASIUM
RF-03	RESILIENT FLOOR - RED STRIPING
RF-04	RESILIENT FLOOR - BLUE STRIPING
RF-05	RESILIENT FLOOR - ORANGE STRIPING
T-01	CERAMIC TILE - CAFETERIA
T-02	CERAMIC TILE - CAFETERIA ACCENT
WD	WOOD STRIP FLOORING
EP-01	RESINOUS, POURED FLOOR

WALL FINISH LEGEND

T	TILE - WAINSCOT [TILE SIZE]
CG	CORNER GUARD
PT	PAINT
	TAPE AND FLOAT VWC-01 U.N.O.

FLOOR PLAN LEGEND

	NOT IN SCOPE

FLOOR PLAN KEYED NOTES

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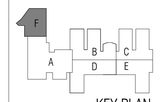
CCISD Priority Repairs - FAPE GOFE ROBE



KEY PLAN

REGISTERED ARCHITECT
MELISSA E. FLEMING
68313
STATE OF TEXAS

11/14/2024

ISSUED: 11/14/2024

REVISIONS

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Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - FLOOR PLAN - UNIT F

SHEET NO.
A32.11F

DEMOLITION NOTES

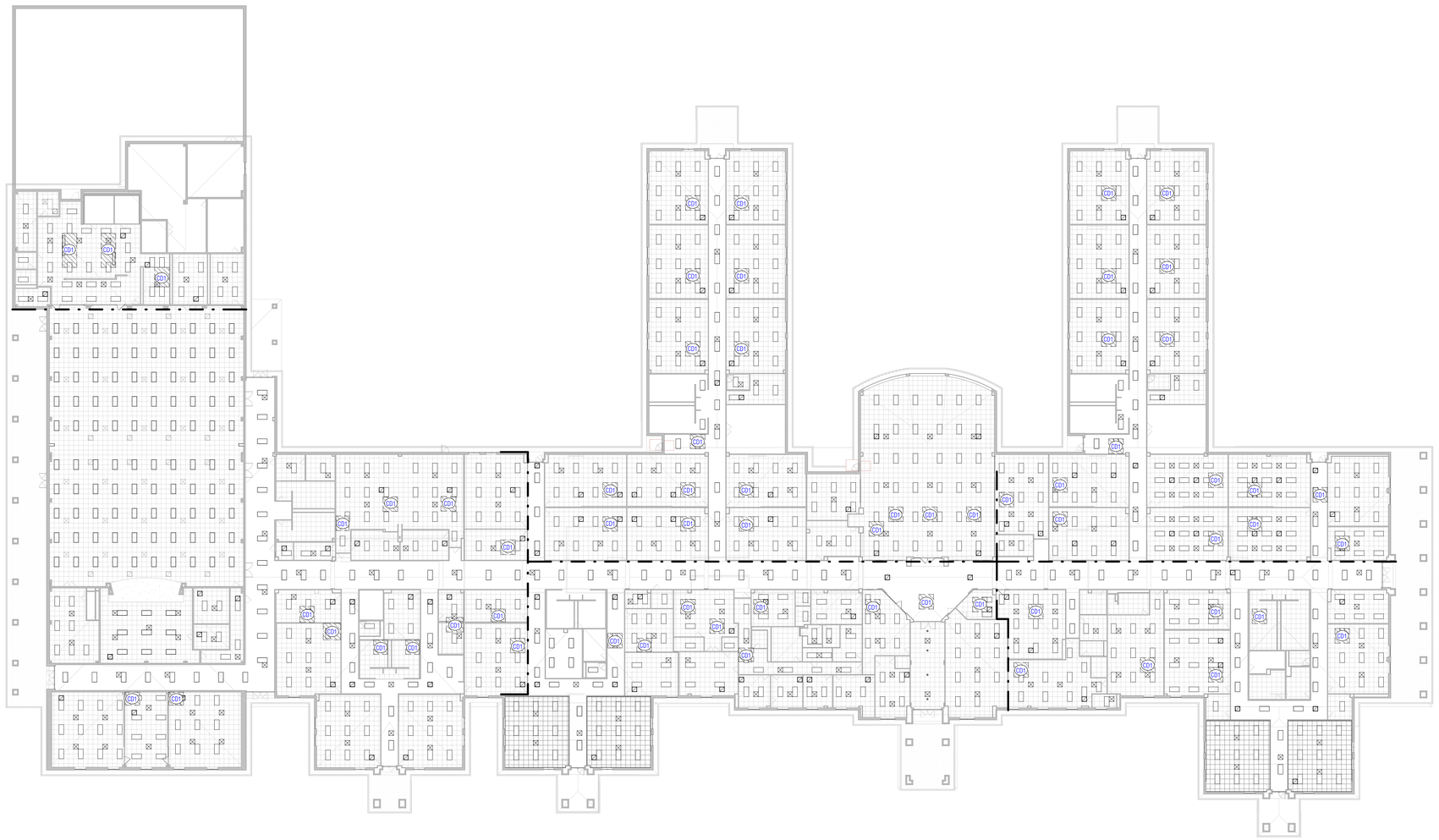
1. Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
2. Existing materials containing asbestos to be removed under separate contract prior to construction by Owner's asbestos abatement contractor.
3. Contact the Owner prior to the start of demolition to determine items to be salvaged and returned to Owner.
4. Protect items to remain from damage during demolition.
5. Repair or replace at no cost to the Owner any damages to the existing building and site as a result of construction activities.
6. Refer to electrical and mechanical demolition plan for additional information.
7. Patch/repair flooring to match existing at all removed or demolished doors, windows, walls, millwork, lockers and similar items.
8. GC to remove and protect existing furniture and metal shelving during construction. GC to install in exact location of scope of work to be completed.
9. Floor finish to not impede existing drain cleanout.
10. Remove and reinstall metal shelving at same location prior to floor removal/installation.
11. Remove, store and reinstall wall mounted equipment and furnishings if vinyl wallcovering is being installed.

DEMOLITION LEGEND

NOT IN SCOPE

DEMOLITION KEYED NOTES

CD1	REMOVE AND REPLACE CEILING TILES AND GRID AS INDICATED ON DEMO RCPS FOR MEP REPLACEMENT. REF. MEP FOR LOCATION OF MEP EQUIPMENT REPLACEMENT.



1 REFLECTED CEILING PLAN - DEMO
SCALE: 3/64" = 1'-0"

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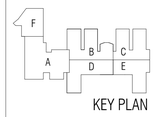
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402



KEY PLAN

11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

ROBE - OVERALL REFLECTED CEILING PLAN - DEMO

SHEET NO.

A36.01

CCISD Priority Repairs - FAPE GOFE ROBE

FINISH ACCESSORY, FURNITURE AND EQUIPMENT SCHEDULE

NOTE: ALL MATERIALS, PRODUCTS, SIZES, COLORS AND PATTERNS ARE THE BASIS OF DESIGN. REFERENCE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS MEETING THE DESIGN INTENT. SUBSTITUTIONS WILL BE CONSIDERED WHEN SUBMITTED IN COMPLIANCE WITH SECTION 01 62 00 – PRODUCT OPTIONS.

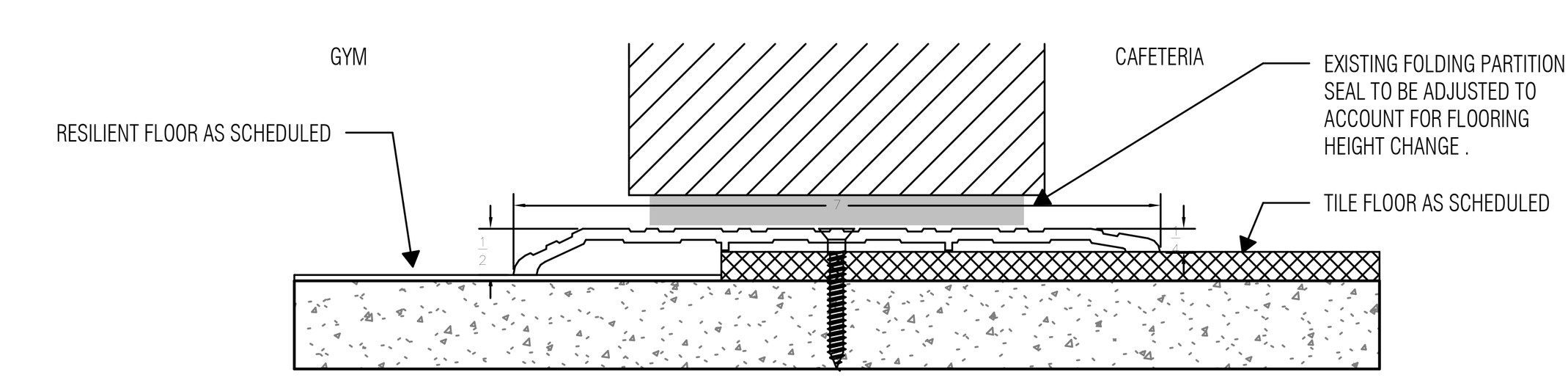
MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER INFO			SIZE	COMMENTS
			MANUFACTURER	SERIES/STYLE	COLOR/FINISH		
FLOOR FINISH ACCESSORY							
FFA-01	FLOOR TRANSITION	09 68 00	Johnsonite	Slimline Transition	Charcoal		CPT TO RF
FFA-02	FLOOR TRANSITION	09 68 00	Johnsonite	Slimline Transition	Charcoal		CPT TO CPT
FFA-03	FLOOR TRANSITION	09 68 00	Schluter	Reno-U	Satin Nickel Anodized Aluminum		CPT TO T
FFA-04	FLOOR TRANSITION	09 68 00	Pemco	2727 Series	Aluminum		T TO RF
FFA-05	FLOOR TRANSITION	09 68 00	Schluter	Schiene	Satin Nickel Anodized Aluminum		EP TO T
G-01	GROUT - COLOR A	09 30 13	Mapei	--	Pearl Gray 5019		PORCELAIN FLOOR
SPECIALTY EQUIPMENT							
ATH	Wall Pads	11 66 00	ACI	-	Galaxy Grey	TBD	Regroup Room
WALL FINISH ACCESSORY							
CG-01	CORNER GUARD	10 26 13	CSI	SM20	<varies>		
G-02	GROUT - COLOR B	09 30 13	Mapei	--	Pearl Gray 5019		WALL TILE
WFA-01	Tile Edge/Corner Trim - Metal	09 30 00	Schluter	Quadec	Satin Nickel Anodized Aluminum	-	TOP & CORNER TRIM

MATERIAL FINISH SCHEDULE

NOTE: ALL MATERIALS, PRODUCTS, SIZES, COLORS AND PATTERNS ARE THE BASIS OF DESIGN. REFERENCE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS MEETING THE DESIGN INTENT. SUBSTITUTIONS WILL BE CONSIDERED WHEN SUBMITTED IN COMPLIANCE WITH SECTION 01 62 00 – PRODUCT OPTIONS.

MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER INFO				COMMENTS
			MANUFACTURER	SERIES/STYLE	COLOR/FINISH	SIZE	
BASE FINISH							
BC-01	Base, Rubber Coved	09 65 00	Johnsonite	4" Cove	Charcoal	4"	
BC-02	Base, Rubber Coved Black	09 65 00	Johnsonite	4" Cove	Black	4"	
BT	Base, Tile	09 30 00	Daltile	Portfolio	White PF02	6" x 24"	
CEILING FINISH							
ACT-01	Acoustic Ceiling Tile (24X24)	09 51 00	Armstrong	Fine Fissured Humiguard	White	24" x 24"	
FLOOR FINISH							
CPT-01	Carpet - Broadloom Field	09 68 00	Tarkett	Paradigm	Arabian	Roll	
CPT-02	Carpet - Broadloom Accent	09 68 00	Tarkett	Paradigm	Dapple	Roll	
CPT-03	Carpet - Walk-Off	09 68 13	Tarkett	Assertive Action	Steelwork	Roll	
CPT-04	Carpet - Broadloom Blue Accent	09 68 00	Tarkett	Plexus Color IV	Ocean Storm	Roll	
EP-01	Poured Floor - Resinous	09 67 23	Stonhard	Medium Texture	Flagstone TBD	--	
RF-01	Resilient Floor - Field	09 65 44	Forbo	Marmoleum Modular	Pluto	20" x 20"	
RF-02	Resilient Floor - Gym	09 65 44	Forbo	Marmoleum MCT	Eiger	13" x 13"	
RF-03	Resilient Floor - Red Striping	09 65 44	Forbo	Marmoleum MCT	Red	--	
RF-04	Resilient Floor - Blue Striping	09 65 44	Forbo	Marmoleum MCT	Blue	--	
RF-05	Resilient Floor - Orange Striping	09 65 44	Forbo				
T-01	Tile - Porcelain (T-01)	09 30 00	Daltile	Portfolio	White PF02	12" x 24"	
T-02	Tile - Porcelain (T-02)	09 30 00	Daltile	Portfolio	Ash Grey PF05	12" x 24"	
WD	Existing Wood Floor	09 64 29	TBD	TBD	TBD	--	Refinish Existing Floor
WALL FINISH							
PT-01	Paint - Field	09 91 00	Sherwin Williams	--	TBD	--	To Match VWC-01
PT-02	Paint - Accent	09 91 00	Sherwin Williams	--	TBD	--	To Match VWC-02
PT-03	Paint - Accent 02	09 91 00	Sherwin Williams	--	TBD	--	Contractor to verify; match existing color.
PT-04	Paint - Accent 03	09 91 00	Sherwin Williams	--	TBD	--	Hollow Metal Door Frames
T-03	Tile - Porcelain	09 30 00	Crossville	Shades 2.0	Frost UPS SHD41	12" x 24"	
VWC-01	Vinyl Wallcovering - Field	09 72 16	Koroseal	Linsey	Linum SE21-09	--	
VWC-02	Vinyl Wallcovering - Accent 01	09 72 16	Koroseal	Desert Sand	Newburyport Blue 5921-73	--	
VWC-03	Vinyl Wallcovering - Accent 02	09 72 16	Koroseal	Linsey	Angora SE21-17	--	

1 WAINSCOT TILE ALTERNATE
SCALE: 1/2" = 1'-0"



2 TRANSITION DETAIL AT GYM & CAFETERIA
SCALE: 6" = 1'-0"

DOOR HARDWARE SCHEDULE

DOOR NUMBER	DOOR TYPE	FRAME TYPE	HDWR SET	REMARKS
UNIT A				
06	EX-HM	EX-HM		ONE DOG DOWN CYLINDER REPLACEMENT + MULLION CYLINDER REPLACEMENT
07	EX-HM	EX-HM		ONE DOG DOWN CYLINDER REPLACEMENT + MULLION CYLINDER REPLACEMENT
11	EX-HM	EX-HM		ONE DOG DOWN CYLINDER REPLACEMENT
23	EX-HM	EX-HM		MULLION CYLINDER REPLACEMENT
24	EX-HM	EX-HM		MULLION CYLINDER REPLACEMENT
25	EX-HM	EX-HM		MULLION CYLINDER REPLACEMENT
R01	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT B				
13	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
15	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
R02	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT C				
R03	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)
UNIT D				
02	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
26	EX-HM	EX-HM		ONE DOG DOWN CYLINDER REPLACEMENT + MULLION CYLINDER REPLACEMENT
R04	EX-PL	EX-AL		ONE CYLINDER REPLACEMENT
UNIT E				
20	EX-AL	EX-AL		ONE DOG DOWN CYLINDER REPLACEMENT
R07	EX-PL	EX-AL		DOOR HW REPLACEMENT IN ITS ENTIRETY PER DISTRICT STANDARD @ INDIVID. RESTROOMS (OCCUPANCY/VACANCY - NO CYLINDER)

DOOR SCHEDULE NOTES

1. At Doors with a Door Type or Frame Type designation "EX", the door or door frame is existing to remain.
2. Refer to Hardware Schedule for additional information regarding hardware.

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CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO: 2025.402

REGISTERED ARCHITECT MELISSA E. FLEMING 20313 STATE OF TEXAS
11/14/2024

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
MATERIAL FINISH & DOOR SCHEDULES

SHEET NO.
A39.01

CCISD Priority Repairs - FAPE GOFE ROBE

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
STM	STEAM
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

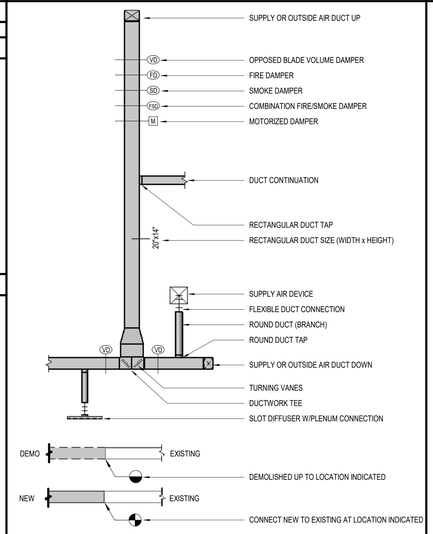
Y

Y	YARD HYDRANT

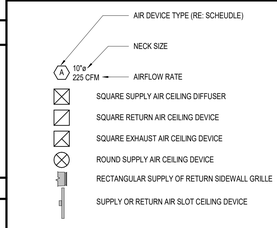
Z

Z	ZONE

DUCTWORK



AIR DEVICE TYPES



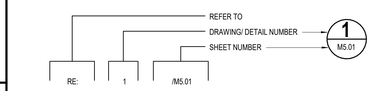
WALL MOUNTED SENSOR TYPES

T	THERMOSTAT	CO	CARBON MONOXIDE SENSOR
H	HUMIDISTAT	N	NITROGEN DIOXIDE SENSOR
C	CARBON DIOXIDE SENSOR	S	ON/OFF SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE	HWR	HOT WATER RETURN
CHS	CHILLED WATER SUPPLY	CWS	CONDENSER WATER SUPPLY
CHR	CHILLED WATER RETURN	CWR	CONDENSER WATER RETURN
HWS	HOT WATER SUPPLY	REF	REFRIGERANT PIPING SIZED BY MFR.

DRAWING/DETAIL REFERENCE KEY



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 CUTSHEETS BEFORE FABRICATING OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING PADS.
4. INSTALL EQUIPMENT TO ENSURE ACCESS PANELS ARE NOT BLOCKED. ACCESS FOR SERVICE MUST BE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
6. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
7. 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.
8. 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.

ROOF MOUNTED EQUIPMENT ANCHORAGE REQUIREMENTS

1. ALL ROOF MOUNTED EQUIPMENT CURBS, ROOF MOUNTED EQUIPMENT, EQUIPMENT TIE DOWNS, AND CONNECTIONS OF ALL EQUIPMENT TO BUILDING STRUCTURE FOR WIND LOADING ARE TO BE DESIGNED AND ENGINEERED BY A REGISTERED SPECIALTY ENGINEER RETAINED BY THE CONTRACTOR. DESIGN CRITERIA FOR WIND LOADING SHALL BE AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND PER LOCAL CODES FOR THE PROJECT LOCATION AND BUILDING CATEGORY. SIGNED AND SEALED DRAWINGS AND CALCULATIONS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE SUBMITTAL SHALL INCLUDE ATTACHMENT DETAILS OF THE EQUIPMENT TO THE STRUCTURE WITH DESIGN LOADS, LOCATIONS, AND METHODS OF ATTACHMENT. THE CONTRACTOR SHALL ALSO SUBMIT THE INFORMATION TO THE STRUCTURAL ENGINEER TO COORDINATE THE DESIGN OF THE PRIMARY STRUCTURAL FRAME WITH THE FINAL LOADS AND ATTACHMENTS SUBMITTED.

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

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CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - MECHANICAL SYMBOL LEGEND

SHEET NO.
M30.00

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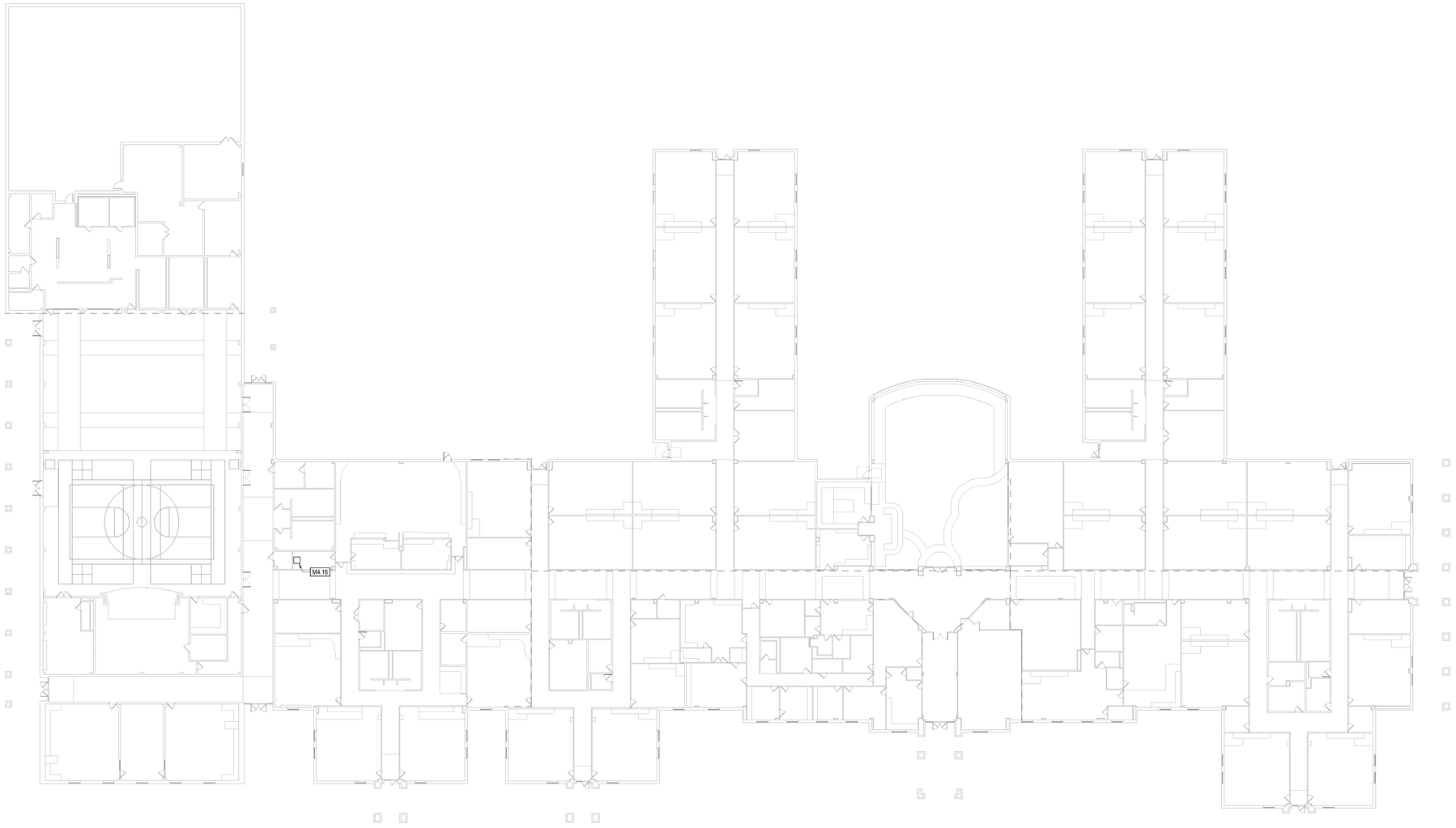
DBR Project # 240244
EK RM/TDLB/MS TN/JL LG/SS

MECHANICAL KEYED NOTES

M4.16 PROVIDE AND INSTALL "VENT-A-KIN" EXHAUST HOOD AND FAN ASSEMBLY. LOCATE
ROUTE 6" FLEXIBLE DUCT FROM OUTLET OF HOOD UP TO CEILING. ROUTE 6# RIGO
JUST BELOW CEILING UP THROUGH ROOF. TERMINATE DUCT ABOVE ROOF MODEL RFC-7. ROOF CAP SHALL BE CONSTRUCTED OF ALUMINUM AND SHALL
DUCT SHALL BE ROUTED WITHIN FIRE-RATED ENCLOSURE FROM CEILING PENETRATION TO ROOF PENETRATION. RE: DETAIL 6/M35.02



1 / M30.11 **COMPOSITE MECHANICAL PLAN - LEVEL ONE**
1" = 20'-0"

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KEY PLAN

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11/14/24

ISSUED: 11/14/2024

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Approver	DBR
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Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE -COMPOSITE MECHANICAL PLAN

SHEET NO.
M30.11

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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
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VFD	VARIABLE FREQUENCY DRIVE
CSR	CURRENT SENSING RELAY
FRZ	FREEZESTAT
HSL	HIGH STATIC LIMIT
SPT	STATIC PRESSURE TRANSMITTER
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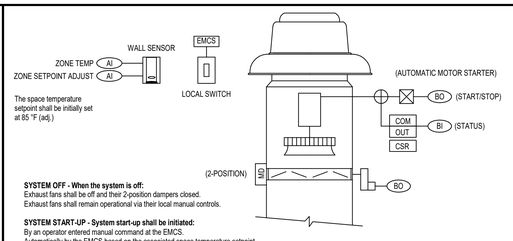
FM	FLOW METER
FS	FLOW SWITCH
DAT	DISCHARGE AIR TEMPERATURE SENSOR

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

4 CONTROL SCHEMATIC LEGEND
NOT TO SCALE



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.

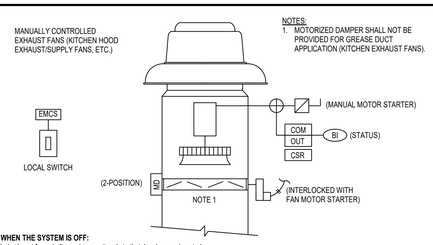
SYSTEM START-UP - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on the associated space temperature setpoint.
By an operator command at local manual control.

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 and run off the BAS system:
Fan Failure: Commanded on, but the status is off.
Fan in Hand: Commanded off, but the status is on.

3 Automatically Controlled Temperature Based Exhaust Fans with Local Override Switch - Control Schematic and Sequence of Operations
NOT TO SCALE



SYSTEM OFF - WHEN THE SYSTEM IS OFF:
Manually controlled exhaust fans shall remain operational via their local manual controls.

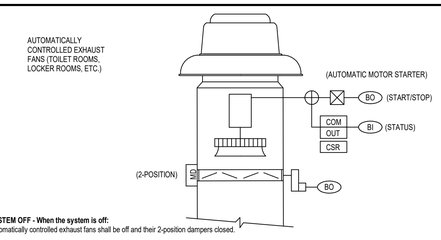
SYSTEM START-UP - SYSTEM START-UP SHALL BE INITIATED:
By an operator command at local manual control.

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 and run off the BAS system:
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 Manually Controlled Exhaust/Supply Fans - Control Schematic and Sequence of Operations
NOT TO SCALE



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 and run off the BAS system:
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.).

1 Automatically Controlled Exhaust/Supply Fans - Control Schematic and Sequence of Operations
NOT TO SCALE

GENERAL NOTE: TIE ALL EQUPIMENT AND CONTROLS INTO LEGACY EXISTING ALC BAS SYSTEM. INTERLOCK FAN TO AHU FOR ON/OFF CONTROL.

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STATE OF TEXAS
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ISSUED: 11/14/2024

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Approver	DBR
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Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - MECHANICAL CONTROLS

SHEET NO.
M34.01

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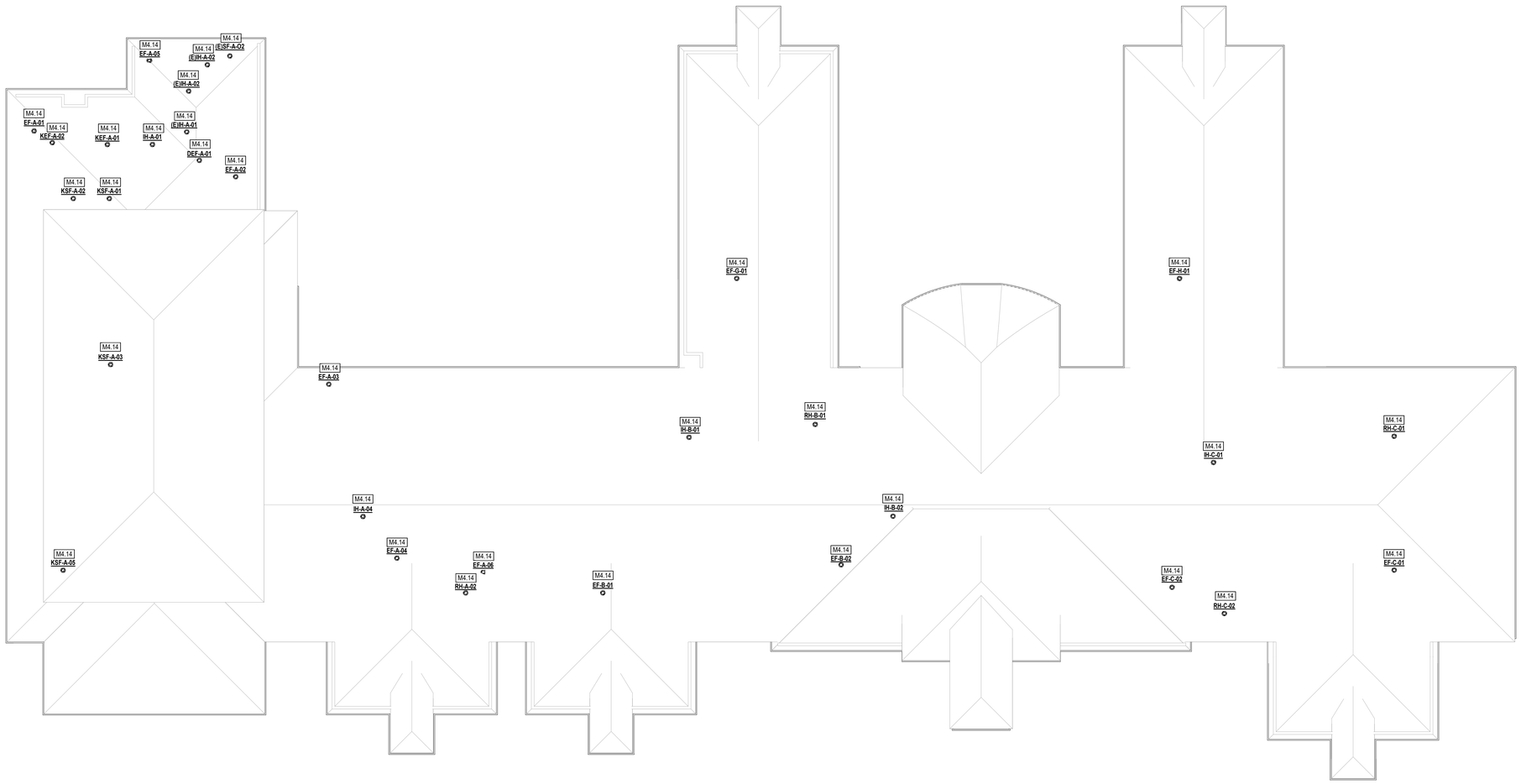
GENERAL NOTE:
EXISTING ROOF IS UNDER WARRANTY, MECHANICAL SUB CONTRACTOR TO TAKE LIABILITY FOR ANY AND ALL DAMAGE TO ROOF WHILE FANS ARE BEING REPLACED. ANY AND ALL WORK ON AND AROUND THE ROOF SHALL BE DONE SUCH THAT THE MANUFACTURERS ROOFING WARRANTY IS MAINTAINED.

MECHANICAL KEYED NOTES

M4.14 PROVIDE ROOF MOUNTED FAN AT APPROXIMATE LOCATION SHOWN. FAN TO BE INSTALLED IN SAME PLACE THAT EXISTING FAN WAS. PROVIDE FAN WITH ROOF CURB, ACCESSORIES, ETC. AS NECESSARY FOR REWORKING. RE: 05/M35.02.



2 M35.00 **MECHANICAL ROOF PLAN**
1" = 20'-0"

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ROBE - MECHANICAL ROOF PLAN

SHEET NO.
M35.00

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FAN SCHEDULE

MARK	EF-A-01	EF-A-02	EF-A-03	EF-A-04	EF-A-05	EF-A-06	EF-B-01	EF-B-02	EF-C-01	EF-C-02
LOCATION	KITCHEN	KITCHEN	AREA "A"	AREA "A"	AREA "A"	AREA "A"	AREA "B"	AREA "B"	AREA "C"	AREA "C"
SERVICE	OFFICE	RESTROOMS	RESTROOMS	RESTROOMS	CENTRAL PLANT	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS
TYPE/DRIVE	CENT/DIRECT	CENT/DIRECT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/DIRECT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT
INTERLOCK	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS
CFM (MIN./MAX.)	260	300	1,100	700	1050 / 2100	220	700	540	1,120	380
EXT. S.P. (IN. W.G.)	0.250	0.130	0.380	0.350	0.500	0.250	0.375	0.375	0.350	0.350
HORSEPOWER	1/6	1/6	1/3	1/4	1	1/6	1/4	1/6	1/3	1/6
FAN SPEED (RPM)	1,417	1,476	1,100	1,231	2,100	1,258	1,250	1,360	1,120	1,099
SONES (MAX.)	7.7	8.4	9.2	8.1	12.7	6.3	8.2	7.8	9.3	5.3
VOLTS/PHASE/HERTZ	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	GB-097-6	GB-097-6	GB-100-3	GB-099-4	G-140-VG	GB-097-6	GB-099-4	GB-098-6	GB-100-3	GB-098-6
NOTES	1,7,8,9,10,11	2,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	5,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11	1,7,8,9,10,11

MARK	EF-G-01	EF-H-01	DEF-A-01	KEF-A-01	KEF-A-02	KSF-A-01	KSF-A-02	SF-A-01	SF-A-02
LOCATION	AREA "G"	AREA "H	AREA "A"	AREA "A"	AREA "A"	AREA "A"	AREA "A"	CENTRAL PLANT	CENTRAL PLANT
SERVICE	RESTROOMS	RESTROOMS	DISHWASHER	KITCHEN HOOD	KITCHEN HOOD	KITCHEN HOOD	KITCHEN HOOD	EM. PURGE SUP.	VENTILATION
TYPE/DRIVE	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT	CENT/BELT
INTERLOCK	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS	EMCS
CFM (MIN./MAX.)	940	940	1,200	3,450	3,600	2,070	2,160	1,575	1,015
EXT. S.P. (IN. W.G.)	0.350	0.350	0.400	1.630	1.630	0.750	0.750	0.250	0.250
HORSEPOWER	1/4	1/4	1/3	2	3	1	1	1/2	1/4
FAN SPEED (RPM)	1,488	1,488	1,621	1,625	1,404	978	993	798	638
SONES (MAX.)	10.6	10.6	11.3	18.7	19.4	12.1	12.5	10.0	8.5
VOLTS/PHASE/HERTZ	115/1/60	115/1/60	115/1/60	460/3/60	460/3/60	115/1/60	115/1/60	115/1/60	115/1/60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	GB-099-4	GB-099-4	CUBE-100-3	GPFV-30-G20	CUBE-180-30	RSF-100-10	RSF-100-10	RSF-90-5	RSF-90-4
NOTES	1,7,8,9,10,11	1,7,8,9,10,11	4,7,8,9,10	3,7,8,9,10	3,7,8,9,10	3,7,8,9,10	3,7,8,9,10	7,8,9,10	7,8,9,10

NOTES:

1. FAN SHALL BE INTERLOCKED WITH BAS SYSTEM AND AIR HANDLING UNIT SERVING THIS AREA FOR SIMULTANEOUS OPERATION.
2. FAN SHALL BE CONTROLLED BY BAS SYSTEM BASED ON SIGNAL FROM TEMPERATURE SENSOR. FAN SHALL BE ENERGIZED WHEN ROOM TEMPERATURE RISES ABOVE SETPOINT.
3. FAN SHALL BE STARTED AND STOPPED BY SWITCH ON OR NEAR KITCHEN HOOD, EXHAUST FAN AND SUPPLY FAN SERVING THE SAME HOOD SHALL BE INTERLOCKED WITH BAS SYSTEM FOR SIMULTANEOUS OPERATION.
4. FAN SHALL BE INTERLOCKED WITH BAS SYSTEM AND DISHWASHER HOOD AND SHALL HAVE A TIMED RELAY. FAN SHALL BE ENERGIZED WHEN DISHWASHER IS ACTIVATED AND SHALL RUN FOR A MINIMUM OF 10 MINUTES.
5. REFRIGERATION MACHINERY ROOM VENTILATION FAN SHALL OPERATE CONTINUOUSLY AT LOW SPEED TO EXHAUST AIR FROM ROOM AT A RATE OF 1000 CFM. WHEN THE REFRIGERANT MONITORING AND BAS SYSTEM ALARM DETECTS A REFRIGERANT LEAK, THE FAN SHALL BE SWITCHED TO HIGH SPEED TO EXHAUST AIR FROM THE ROOM AT A RATE OF 2000 CFM.
6. TOILET ROOM EXHAUST FAN SHALL BE INTERLOCKED WITH LIGHTS.
7. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES.
8. PROVIDE WITH 12" PREFABRICATED ROOF CURB, WEATHERPROOF DISCONNECT SWITCH, AND ALUMINUM BIRD SCREEN.
9. 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.
10. PROVIDE WITH DIRECT DRIVE, ELECTRONICALLY COMMUTATED FAN MOTOR (ECM).
11. PAINT TO MATCH ROOF.

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PROJECT NO.

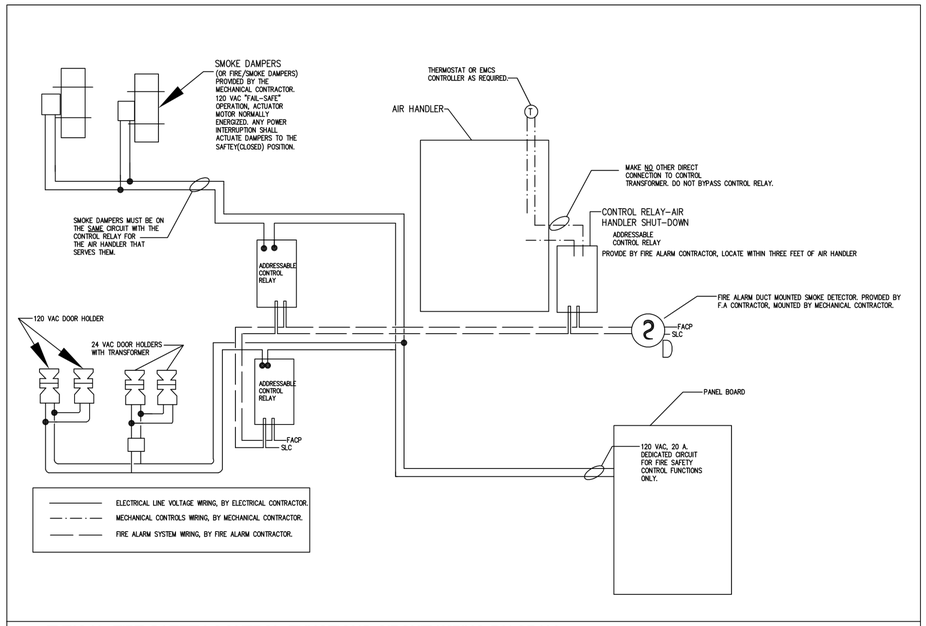
24-046.00

SHEET TITLE

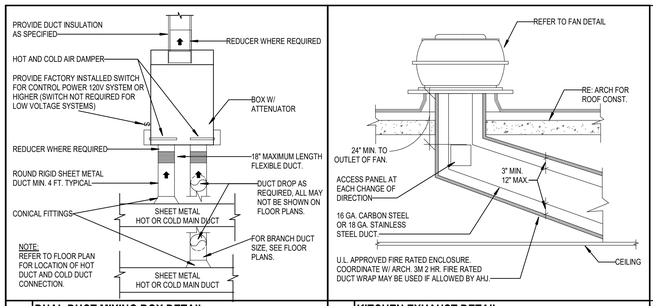
ROBE - MECHANICAL SCHEDULES

SHEET NO.

M35.01

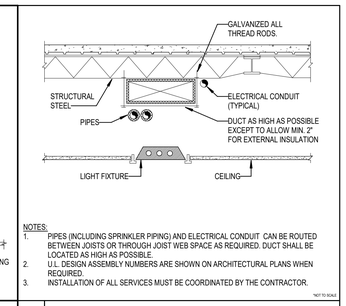


TYPICAL FIRE SAFETY CONTROL FUNCTIONS CIRCUIT WIRING DIAGRAM



3 DUAL DUCT MIXING BOX DETAIL
NOT TO SCALE

2 KITCHEN EXHAUST DETAIL
NOT TO SCALE



1 TYPICAL MEP INSTALLATION DETAIL
NOT TO SCALE

6 KILN DETAIL
NOT TO SCALE

5 CENTRIFUGAL ROOF EXHAUST FAN ON SLOPED ROOF
NOT TO SCALE

4 RANGE HOOD CENTRIFUGAL UPBLAST EXHAUST FAN
NOT TO SCALE

GENERAL NOTE: CONTRACTOR TO UPGRADE MAIN GATEWAY FOR BUILDING ON EACH CAMPUS.

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PROJECT NO.
24-046.00

SHEET TITLE
ROBE - MECHANICAL DETAILS

SHEET NO.
M35.02

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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
NIR	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

- $_M — MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- (5) — 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
- [B] — 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, "N/F" 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.
- P — 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 LIFE SAFETY BRANCH CIRCUIT, GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL LIFE SAFETY LIGHTING ORIGINATING FROM THE LIFE SAFETY 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.

MISCELLANEOUS

- F — 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 1; SHEET NUMBER E3-2

PANELBOARD NOMENCLATURE

5 DP C H A 1

- 5 — SUB PANEL
- DP — AREA
- C — VOLTAGE: H: 480Y/277V; L: 208Y/120V
- H — BRANCH: NONE: NORMAL; E: LIFE SAFETY; Q: EQUIPMENT; C: CRITICAL; R: LEGALLY REQUIRED; X: OPTIONAL STAND-BY
- A — DISTRIBUTION PANEL (IF APPLICABLE)
- 1 — LEVEL

GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

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CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS — WILLIAM MEISTER — 101184 — LICENSED PROFESSIONAL ENGINEER — 11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - ELECTRICAL SYMBOL LEGEND

SHEET NO.
E30.01

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TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS

GENERAL LIGHTING DEMOLITION NOTES

A. ALL FIXTURES REMOVED AND REINSTALL SHALL BE CLEANED PRIOR TO REINSTALLATION.

B. ALL EXISTING SWITCHING ZONES SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHER ON PLANS.

C. ALL LIGHT CIRCUIT 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 CONDUIT AND BOXES AS NEEDED.

D. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 80% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.

E. ALL REMOVED AND REINSTALLED LIGHT FIXTURES MUST 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.

F. ALL EXISTING INTERCOM/SPEAKERS SHALL BE REMOVED AND REINSTALLED AS REQUIRED TO FACILITATE RENOVATION. SUBJECT TO EXISTING EQUIPMENT OPERATION CONDITION VERIFICATION.

GENERAL DEMOLITION SCOPE 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 VERIFY AND DOCUMENT EXISTING CONDITIONS OF ALL OUTLETS (AS DEFINED BY NEC) THAT ARE INDICATED OR REQUIRED TO BE REMOVED AND REINSTALLED TO FACILITATE THE WORK REQUIRED BY ALL TRADES. WHERE OUTLETS ARE REINSTALLED IN NON-OPERABLE CONDITION, THE CONTRACTOR SHALL REPLACE AT NO COST TO THE OWNER. DOCUMENT OUTLETS IN NON-WORKING CONDITION PRIOR TO REMOVE AND NOTIFY THE OWNER.

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 RECEPTACLES, SWITCHES, DATA/TELEPHONE DROPS, FIRE ALARM DEVICES, PA DEVICES, CONDUIT, AND WIRING. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX. 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. REFERENCE FIRE ALARM GENERAL NOTES FOR ASSOCIATED FIRE ALARM SCOPE OF WORK.

F. ALL ABANDONED CONDUIT AND BOXES FOUND IN CRAWLSPACES, CEILINGS SPACES, CHASES, OR UTILITY SPACES SHALL BE REMOVED. ANY EXISTING CONDUIT THAT IS UNDERGROUND MAY BE ABANDONED.

G. CONTRACTOR SHALL REVIEW DEMO AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

GENERAL POWER DEMOLITION NOTES:

A. GENERAL DEMOLITION NOTES APPLY TO ALL DEMO/REMODELING SCOPE.

B. WHEN OUTLETS ARE ABANDONED, WIRE MUST BE PULLED OUT OF THE CONDUIT BACK TO THE NEAREST REMAINING BOX OR CABINET. EXPOSED CONDUIT THAT HAS BEEN ABANDONED MUST BE REMOVED.

C. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED DUE TO REMODELING WORK.

D. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.

E. EXISTING CIRCUITS MODIFIED IN FIELD SHALL NOT EXCEED 80% CAPACITY BASED ON AMP-RATING OF CIRCUIT.

F. DO NOT LEAVE ABANDONED CONDUIT, BOXES, EQUIPMENT, OR ENCLOSURES AFTER DEMOLITION. ALL ABANDONED MATIERAL MUST BE REMOVED.

G. IDENTIFICATION AND LABELING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS AND/OR NEW-WORK GENERAL ELECTRICAL NOTES.

H. 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.

I. EXISTING CIRCUIT BREAKERS VACATED DUE TO REMODELING WORK SHALL REMAIN AS SPARE BREAKERS AND TURNED TO THE 'OFF' POSITION.

J. 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 BACK TO LAST ACTIVE JUNCTION AND SALVAGED FOR REINSTALLATION.

EMER. LIGHTING GENERAL NOTES:

A. 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 GTD DEVICE. REFER TO GTD WIRING DIAGRAM ON SHEET XXX FOR ADDITIONAL INFORMATION.

B. ALL EMERGENCY LIGHT FIXTURE GENERATOR TRANSFER DEVICES SHALL BE CONNECTED TO THE EMERGENCY EGRESS LIGHTING CIRCUIT INDICATED ON DRAWINGS. ALL EMERGENCY WIRING SHALL BE ROUTED IN A SEPARATE CONDUIT.

GENERAL ELECTRICAL NOTES:

A. 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 REQUIRE HANDLE TIES ON GROUPED BY ALL CIRCUITS SHARING A NEUTRAL. REFERENCE CURRENTLY ADOPTED NEC ARTICLE 210

B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES, AND WIRING/CABLING FOR ALL TELEPHONE, DATA, CATV, SECURITY, AND CAMERA OUTLETS. REFER TO DIVISION 16 SPECIFICATIONS FOR ALL WORK REQUIRED.

D. NEW ELECTRICAL EQUIPMENT LOCATED IN ELECTRICAL ROOMS SHALL BE ARRANGED TO COMPLY WITH LATEST NEC ARTICLE 110.

E. HVAC AND PLUMBING EQUIPMENT MAY NOT BE LOCATED AS SHOWN ON PLAN. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EQUIPMENT CONNECTIONS WITH OTHER TRADES, INCLUDING ANY CONNECTIONS THAT MAY EXIST OUTSIDE OF THE LIMITS OF WORK SHOWN ON PLAN.

F. MULTI-WIRE CIRCUITS ARE PROHIBITED FOR COPIERS AND IT EQUIPMENT. PROVIDE A DEDICATED HOT, NEUTRAL, GROUND, AND CONDUIT.

G.

H. ALL GFCI RECEPTACLES SHALL BE ACCESSIBLE. PROVIDE SEPARATE RECEPTACLE PROTECTED BY "FACELESS GFCI." REQUIRED TO COMPLY WITH CURRENTLY ADOPTED NEC.

I. CONTRACTOR SHALL PROVIDE PLENUM RATED MATERIAL FOR ALL INFRASTRUCTURE LOCATED IN PLENUMS NOT PROTECTED BY CONDUIT OR ANOTHER APPROVED/LISTED FIRE ENCLOSURE.

J. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL 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. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.

K. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

GENERAL ELECTRICAL NOTES:

A. ELECTRICAL DEVICES 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 FOR ALL DIV. 21/22/23 EQUIPMENT.

D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

E. MINIMIZE ROOF PENETRATIONS. 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.

G. MULTI-WIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING.

H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR MAY PROVIDE NON-TAMPER-RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406

I. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

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CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.

24-046.00

SHEET TITLE

ROBE - ELECTRICAL GENERAL NOTES

SHEET NO.

E30.02

ELECTRICAL KEYED NOTES

E3.1 EXISTING 60KW SHALL BE REMOVED AND REPLACED WITH NEW 60KW GENERATOR. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. REMOVE WIRE, PROVIDE NEW WIRE, AND RECONNECT. EXTEND AND REFURBISH EXISTING EQUIPMENT PADS AS REQUIRED. PRIOR TO ORDERING EQUIPMENT CONTRACTOR SHALL MEASURE DIMENSIONS OF EXISTING SPACE.

E3.2 EXISTING ATS SHALL BE REMOVED AND REPLACED WITH NEW 100A/4P ATS. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. REMOVE WIRE, PROVIDE NEW WIRE, AND RECONNECT.

E3.3 PROVIDE NEW MANUAL TRANSFER SWITCH. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.

E3.4 EXISTING SURGE PROTECTION DEVICE SHALL BE REMOVED AND REPLACED WITH NEW. RECONNECT TO EXISTING CIRCUIT SERVING SPD.

E3.6 ELECTRICAL EQUIPMENT IN THIS ROOM SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT.

E3.7 EXISTING ANNUNCIATOR PANEL IN MAIN ELECTRICAL ROOM SHALL BE REMOVED. REMOVE ALL WIRE AND CONDUIT BACK TO SOURCE.

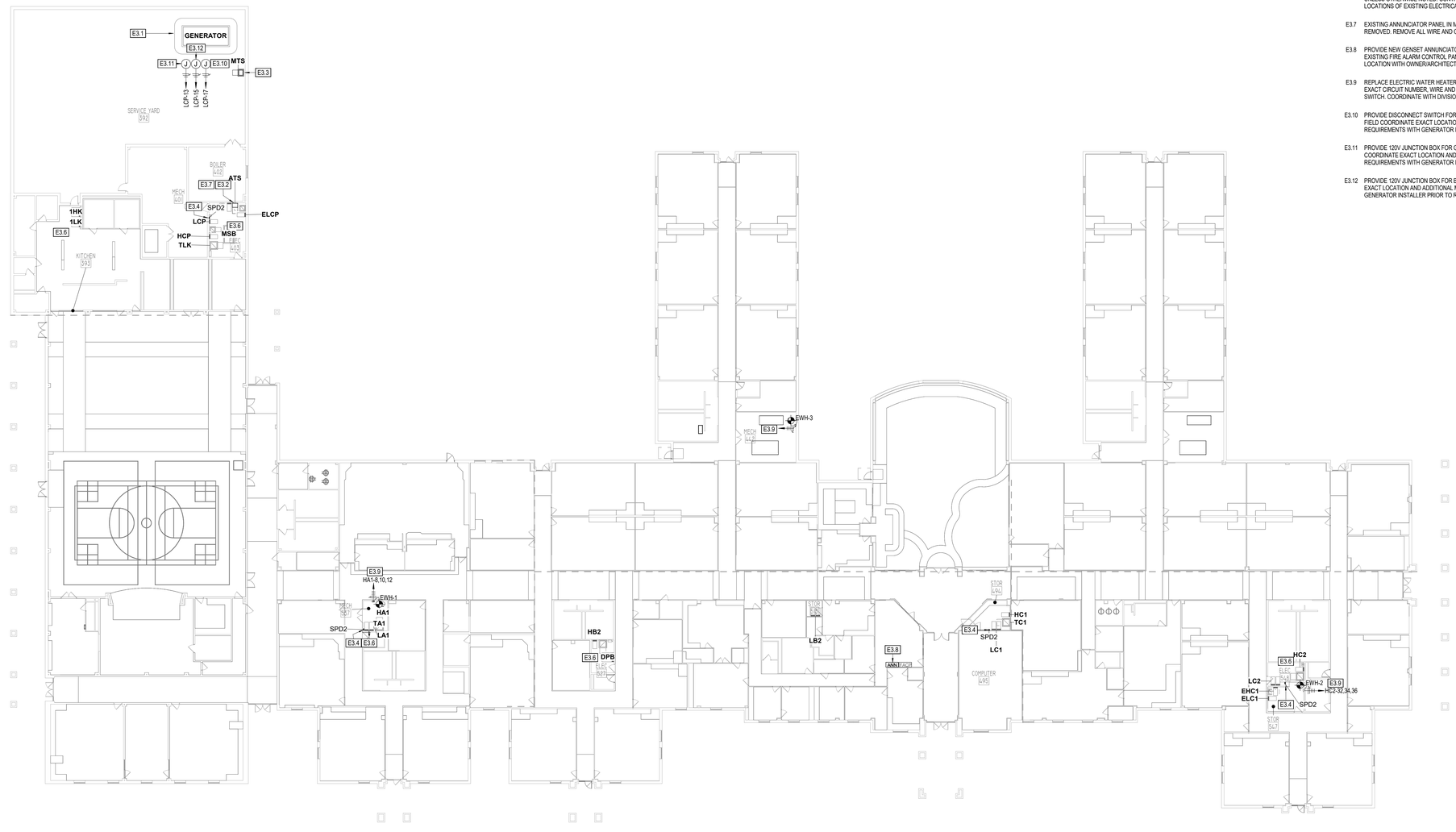
E3.8 PROVIDE NEW GENSET ANNUNCIATOR PANEL IN RECEPTION, ADJACENT TO EXISTING FIRE ALARM CONTROL PANEL. FIELD COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

E3.9 REPLACE ELECTRIC WATER HEATER. TRACE CIRCUIT AND FIELD VERIFY EXACT CIRCUIT NUMBER, WIRE AND CONNECT TO NEW DISCONNECT SWITCH. COORDINATE WITH DIVISION 21 PRIOR TO WORK.

E3.10 PROVIDE DISCONNECT SWITCH FOR GENERATOR'S 120V JACKET HEATER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.

E3.11 PROVIDE 120V JUNCTION BOX FOR GENERATOR CONTROLS. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.

E3.12 PROVIDE 120V JUNCTION BOX FOR BATTERY CHARGER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.



1 E32.11 **COMPOSITE POWER PLAN - LEVEL ONE**
1" = 20'-0"

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Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - COMPOSITE POWER PLAN - LEVEL ONE

SHEET NO.
E32.11

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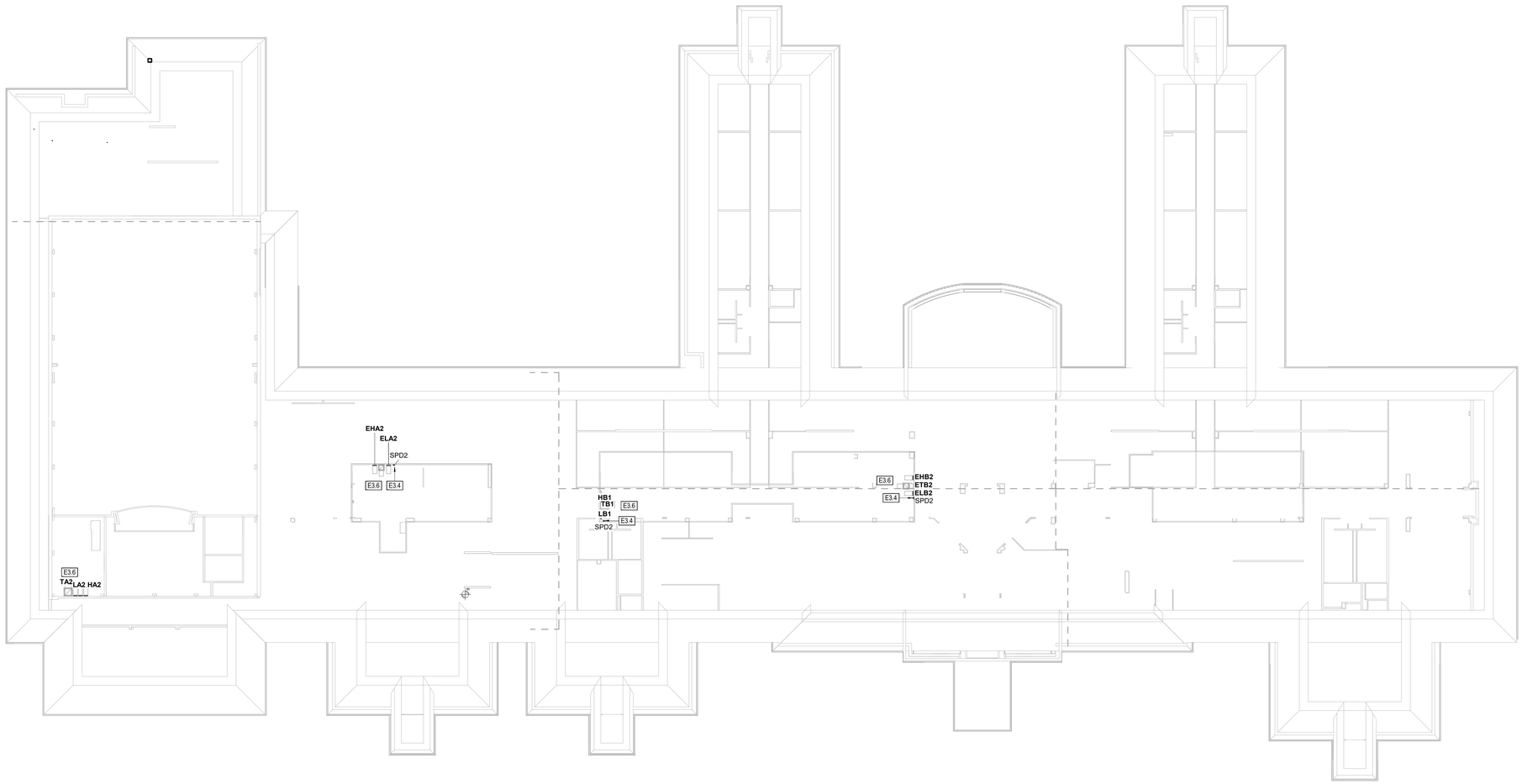
ELECTRICAL KEYED NOTES

E3.4 EXISTING SURGE PROTECTION DEVICE SHALL BE REMOVED AND REPLACED WITH NEW. RECONNECT TO EXISTING CIRCUIT SERVING SPD.

E3.6 ELECTRICAL EQUIPMENT IN THIS ROOM SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT.



1 E32.12 **COMPOSITE POWER PLAN - LEVEL TWO**
1" = 20'-0"

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PROJECT NO.
24-046.00

SHEET TITLE
ROBE - COMPOSITE POWER PLAN - LEVEL TWO

SHEET NO.
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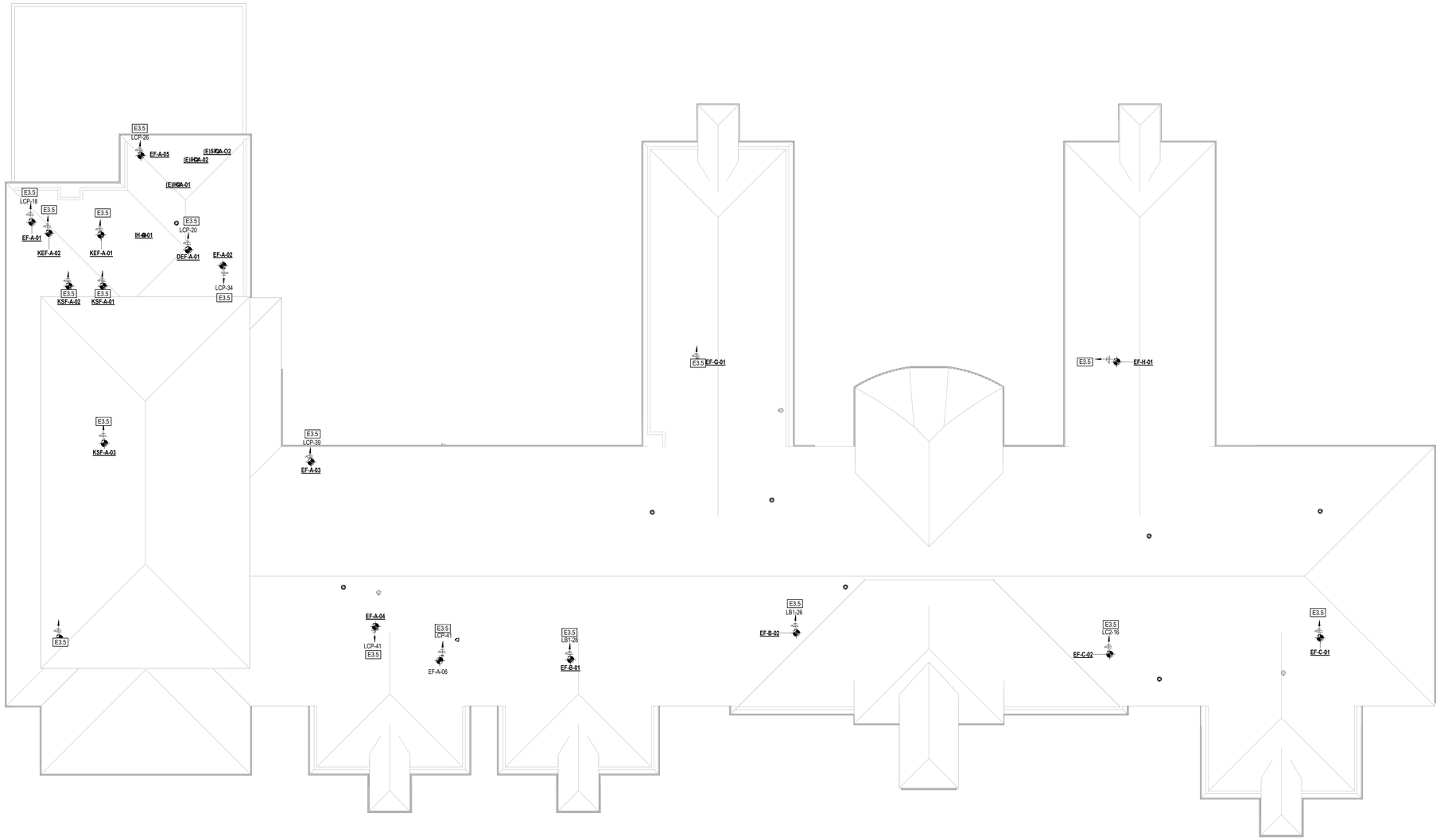
ELECTRICAL KEYED NOTES

E3.5 REPLACE EXHAUST FAN. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. REMOVE ALL WIRE BACK TO PANEL. PROVIDE NEW CONDUIT AND NEW #10 WIRE AND RECONNECT TO EXISTING CIRCUIT. WHERE SHOWN ON PLAN, CIRCUIT NUMBER IS FOR REFERENCE ONLY. TRACE CIRCUIT AND FIELD VERIFY EXACT CIRCUIT NUMBER. WIRE AND CONNECT TO NEW DISCONNECT PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26. COORDINATE WITH DIVISION 23 PRIOR TO WORK.



1 E35.11 **ELECTRICAL ROOF PLAN**
1" = 20'-0"

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PROJECT NO.
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SHEET TITLE
ROBE - ELECTRICAL ROOF PLAN

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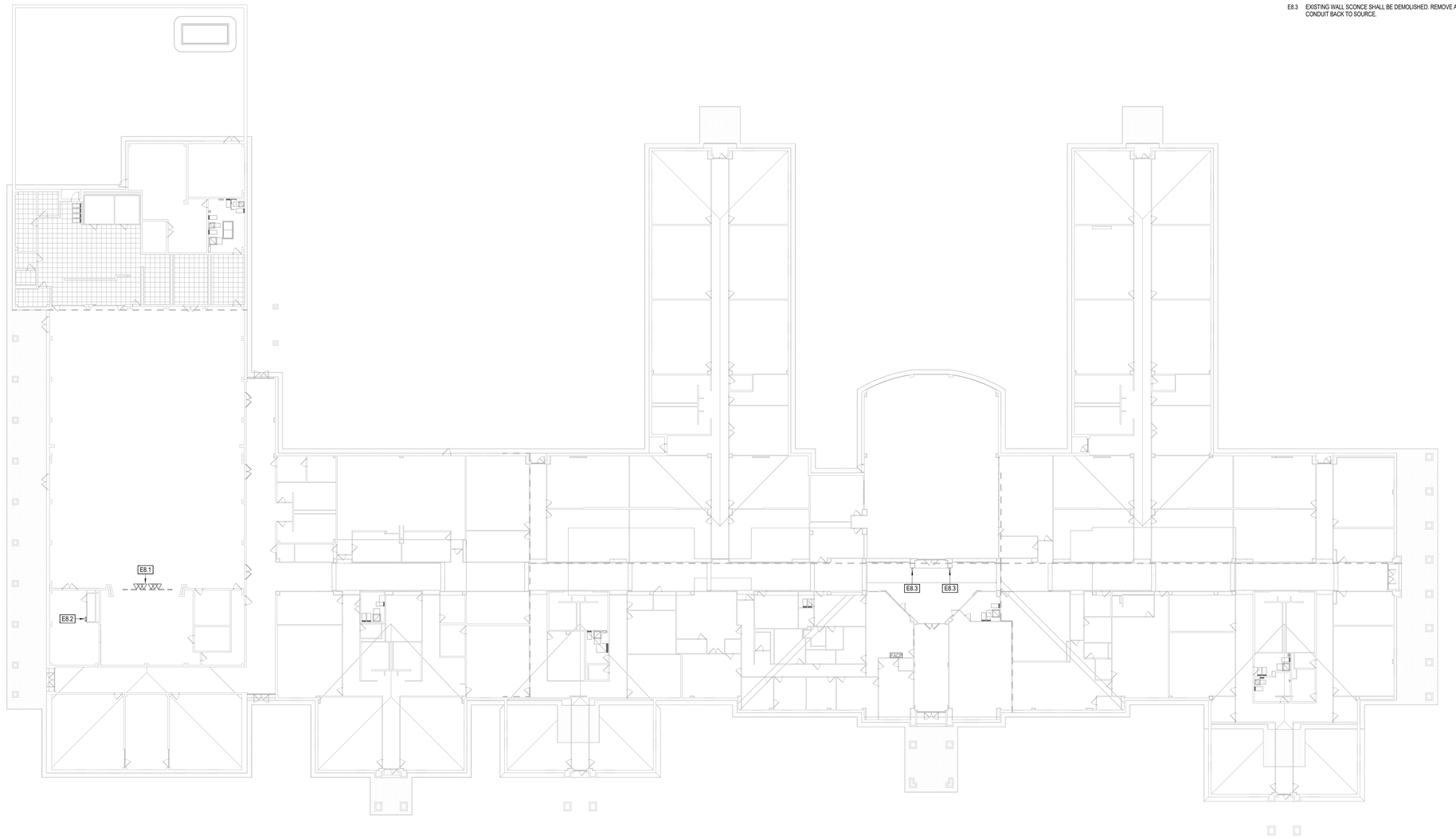
ELECTRICAL KEYED NOTES

E8.1 EXISTING STAGE LIGHTING FIXTURES SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE.

E8.2 EXISTING DIMMING PANEL SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE.

E8.3 EXISTING WALL SCONCE SHALL BE DEMOLISHED. REMOVE ALL WIRE AND CONDUIT BACK TO SOURCE.



1 E36.01 **DEMO COMPOSITE ELECTRICAL LIGHTING PLAN - LEVEL ONE**
1" = 20'-0"

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SHEET TITLE

ROBE - COMPOSITE LIGHTING PLAN - DEMO - LEVEL ONE

SHEET NO.

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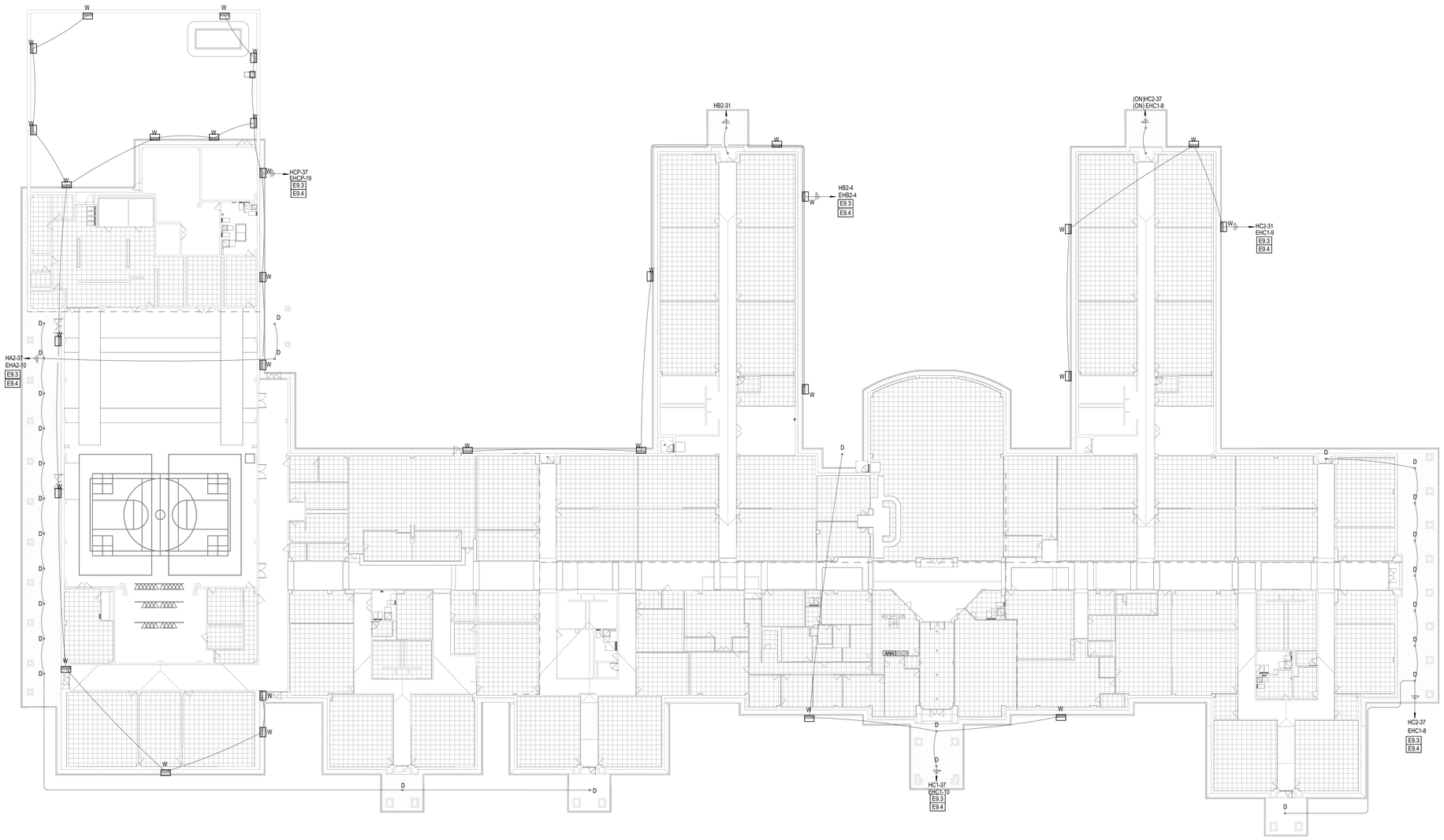
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	MOUNTING	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
D	KIRLIN	LKS-08074-6500L-277-X-80CRI-D1-	RECESSED	LED	277 V	74 VA	8" SQUARE UPGRADE KIT EXTERIOR DOWNLIGHT
W	GARDCO	101L-32L-530-NW-G1-2-UNV-CS50-FINISH	SURFACE	LED	277 V	24 VA	EXTERIOR WALL PACK

ELECTRICAL KEYED NOTES

E9.3 EXISTING LIGHT FIXTURES SHALL BE REMOVED AND REPLACED WITH NEW. ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED. PROVIDE NEW WIRE. RE-USE EXISTING CONDUIT WHERE POSSIBLE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF LIGHT FIXTURES.

E9.4 ROUTE CIRCUIT VIA BODINE UL1008 GTD 20A GENERATOR TRANSFER DEVICE. LOCATE GTD ADJACENT TO EMERGENCY PANEL SERVING EMERGENCY LIGHTING CIRCUIT. CONNECT NORMAL AND EMERGENCY CIRCUIT POWER TO CIRCUITS INDICATED ON PLANS. ROUTE NORMAL CIRCUIT THROUGH LIGHTING CONTACTOR. TYPICAL FOR ALL EXTERIOR LIGHTING CIRCUITS.



1 E36.11 **COMPOSITE ELECTRICAL LIGHTING PLAN - LEVEL ONE**
1" = 20'-0"

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SHEET TITLE
ROBE - COMPOSITE LIGHTING PLAN - LEVEL ONE

SHEET NO.
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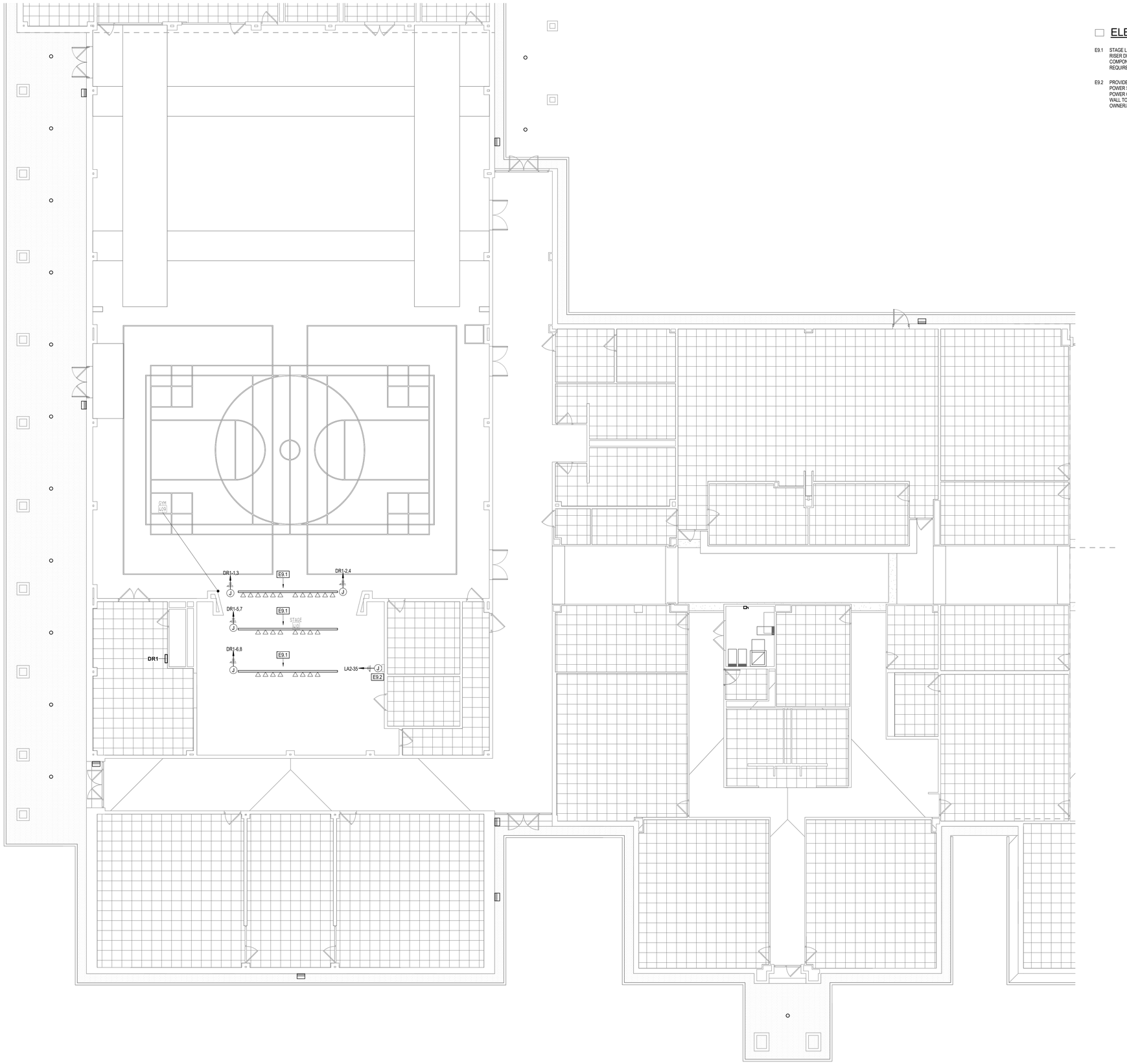

ELECTRICAL KEYED NOTES

E9.1 STAGE LIGHTING BARS. REFER TO SHEET E37.14 FOR STAGE LIGHTING RISER DIAGRAM. PROVIDE POWER FROM RELAY PANEL. PROVIDE ALL COMPONENTS REQUIRED FOR COMPLETE SYSTEM. WIRE AND CONNECT AS REQUIRED.

E9.2 PROVIDE POWER TO TOUCHSCREEN STATE LIGHTING CONTROL STATION POWER SUPPLY. ROUTE (1) 3/4" CONDUIT DOWN IN WALL TO STATIO FOR POWER CONNECTION. ROUTE (1) 3/4" CONDUIT WITH PULL STRONG DOWN IN WALL TO STATION FOR DATA. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

1 E36.11A **ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT A**
1/8" = 1'-0"

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SHEET TITLE
ROBE - ELECTRICAL LIGHTING PLAN - UNIT A

SHEET NO.
E36.11A

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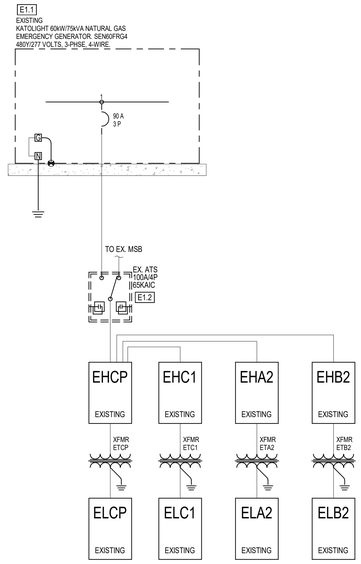
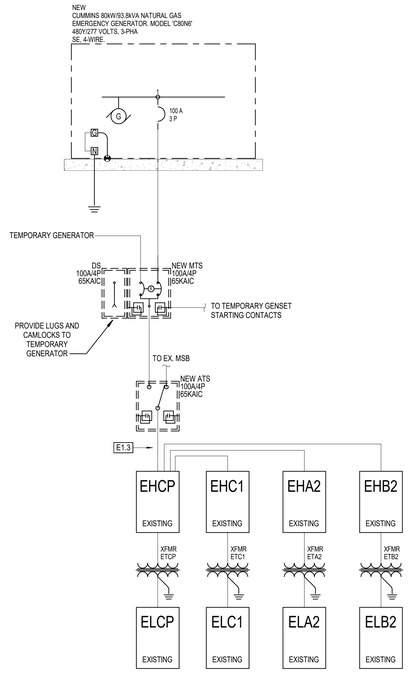


1 E37.11 **ELECTRICAL ONE-LINE DIAGRAM - EXISTING**
12" = 1'-0"



2 E37.11 **ELECTRICAL ONE-LINE DIAGRAM - NEW**
12" = 1'-0"

ELECTRICAL KEYED NOTES

E1.1 EXISTING NATURAL GAS GENERATOR AND ASSOCIATED FEEDER, GENERATOR ACCESSORY CIRCUITS, AND CONCRETE PAD SHALL BE DEMOLISHED AND REPLACED WITH NEW.

E1.2 EXISTING AUTOMATIC TRANSFER SWITCH AND ASSOCIATED FEEDERS AND CONTROL WIRING SHALL BE DEMOLISHED AND REPLACED WITH NEW.

E1.3 RECONNECT EXISTING PANEL EHCP TO NEW AUTOMATIC TRANSFER SWITCH. PROVIDE ALL CONDUIT, WIRE, AND ACCESSORIES NECESSARY FOR RECONNECTION.

SURGE PROTECTION DEVICE (SPD) SCHEDULE

MARK	MANUFACTURER	MODEL	VOLTAGE	PHASE	SURGE RATING PER MODE	BREAKER SIZE	TIERGUIDE CABLE SIZE
SPD2	SOUTHERN TIER TECHNOLOGIES	T45120Y100AWAJ2S	208/120V	3	100/200kA	30A/3P	INCLUDED

*NOTE:
ALL T45 SERIES SPD ENCLOSURES INSTALLED IN FOOD SERVICE AREA (I.E. KITCHENS, SNACK BARS, FOOD LABS, CULINARY ARTS ROOMS AND LIFE SKILLS ROOMS) SHALL BE RECESSED IN THE WALL. PROVIDE RECESSED WALL KIT #RKSS.

3-PHASE, 4-WIRE FEEDER SCHEDULE

COPPER				ALUMINUM			
RATING	SETS	CONDUCTOR SIZE	CONDUIT	RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	4#10, 1#10 G.	3/4"	30A	N/A	N/A	N/A
40A	1	4#8, 1#10 G.	1"	40A	N/A	N/A	N/A
50A	1	4#8, 1#10 G.	1"	50A	N/A	N/A	N/A
60A	1	4#6, 1#10 G.	1"	60A	N/A	N/A	N/A
70A	1	4#4, 1#8 G.	1 1/4"	70A	N/A	N/A	N/A
80A	1	4#4, 1#8 G.	1 1/4"	80A	N/A	N/A	N/A
90A	1	4#3, 1#8 G.	1 1/4"	90A	N/A	N/A	N/A
100A	1	4#3, 1#8 G.	1 1/4"	100A	N/A	N/A	N/A
125A	1	4#1, 1#6 G.	1 1/2"	125A	N/A	N/A	N/A
150A	1	4#1/0, 1#6 G.	1 1/2"	150A	N/A	N/A	N/A
175A	1	4#2/0, 1#6 G.	2"	175A	N/A	N/A	N/A
200A	1	4#3/0, 1#6 G.	2"	200A	1	4#250, 1#4 G.	2 1/2"
225A	1	4#4/0, 1#4 G.	2 1/2"	225A	1	4#300, 1#2 G.	3"
250A	1	4#250, 1#4 G.	2 1/2"	250A	1	4#350, 1#2 G.	3"
300A	1	4#350, 1#4 G.	3"	300A	1	4#500, 1#2 G.	4"
350A	1	4#500, 1#3 G.	3 1/2"	350A	2	4#4/0, 1#1 G.	2 1/2"
400A	1	4#600, 1#3 G.	4"	400A	2	4#250, 1#1 G.	2 1/2"
450A	2	4#4/0, 1#2 G.	2 1/2"	450A	2	4#300, 1#1/0 G.	3"
500A	2	4#250, 1#2G.	2 1/2"	500A	2	4#350, 1#1/0 G.	3"
600A	2	4#350, 1#1G.	3"	600A	2	4#500, 1#2/0 G.	3"
700A	2	4#500, 1#1/0G.	4"	700A	3	4#350, 1#3/0 G.	3"
800A	2	4#600, 1#1/0G.	4"	800A	3	4#400, 1#3/0 G.	3"
1000A	3	4#500, 1#2/0G.	4"	1000A	4	4#350, 1#4/0 G.	4"
1200A	4	4#350, 1#3/0G.	3"	1200A	4	4#500, 1#250 G.	4"
1600A	4	4#600, 1#4/0G.	4"	1600A	5	4#750, 1#350 G.	4"
	5	4#500, 1#4/0G.	4"				
2000A	5	4#600, 1#250G.	4"	2000A	6	4#750, 1#400 G.	4"
	6	4#500, 1#250G.	4"				
2500A	6	4#600, 1#350G.	4"	2500A	7	4#750, 1#600 G.	4"
	7	4#500, 1#350G.	4"				
3000A	8	4#500, 1#400G.	4"	3000A	8	4#750, 1#600 G.	4"
3500A	9	4#600, 1#500G.	4"	3500A	10	4#750, 1#750 G.	4"
	10	4#500, 1#500G.	4"				
4000A	10	4#600, 1#500G.	4"	4000A	11	4#750, 1#750 G.	4"
	11	4#500, 1#500G.	4"				
5000A	12	4#600, 1#750G.	4"	5000A	13	4#750, 2#600 G.	5"
	14	4#500, 1#750G.	4"				

1. ALUMINUM CONDUCTORS SHALL BE COMPRESSION TYPE CONDUCTORS AND SHALL USE PENETROX WITH COMPRESSION TERMINATION FITTINGS.
2. ALUMINUM FEEDERS ARE NOT APPROVED FOR USE ON THE FOLLOWING:

- ALL HVAC EQUIPMENT
- TRANSFORMER SECONDARY
- ELEVATORS
- VARIABLE FREQUENCY DRIVE

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				ALUMINUM			
RATING	SETS	CONDUCTOR SIZE	CONDUIT	RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	3#10, 1#10 G.	3/4"	30A	N/A	N/A	N/A
40A	1	3#8, 1#10 G.	3/4"	40A	N/A	N/A	N/A
50A	1	3#8, 1#10 G.	3/4"	50A	N/A	N/A	N/A
60A	1	3#6, 1#10 G.	1"	60A	N/A	N/A	N/A
70A	1	3#4, 1#8 G.	1"	70A	N/A	N/A	N/A
80A	1	3#4, 1#8 G.	1"	80A	N/A	N/A	N/A
90A	1	3#3, 1#8 G.	1 1/4"	90A	N/A	N/A	N/A
100A	1	3#3, 1#8 G.	1 1/4"	100A	N/A	N/A	N/A
125A	1	3#1, 1#6 G.	1 1/4"	125A	N/A	N/A	N/A
150A	1	3#1/0, 1#6 G.	1 1/2"	150A	N/A	N/A	N/A
175A	1	3#2/0, 1#6 G.	1 1/2"	175A	N/A	N/A	N/A
200A	1	3#3/0, 1#6 G.	2"	200A	1	3#250, 1#4 G.	2"
225A	1	3#4/0, 1#4 G.	2"	225A	1	3#300, 1#2 G.	2-1/2"
250A	1	3#250, 1#4 G.	2 1/2"	250A	1	3#350, 1#2 G.	2 1/2"
300A	1	3#350, 1#4 G.	2 1/2"	300A	1	3#500, 1#2 G.	3"
350A	1	3#500, 1#3 G.	3"	350A	2	3#4/0, 1#1 G.	2"
400A	1	3#600, 1#3 G.	3 1/2"	400A	2	3#250, 1#1 G.	2 1/2"
450A	2	3#4/0, 1#2 G.	2"	450A	2	3#300, 1#1/0 G.	2 1/2"
500A	2	3#250, 1#2G.	2 1/2"	500A	2	3#350, 1#1/0 G.	2 1/2"
600A	2	3#350, 1#1G.	3"	600A	2	3#500, 1#2/0 G.	3"
700A	2	3#500, 1#1/0G.	3 1/2"	700A	3	3#350, 1#3/0 G.	2 1/2"
800A	2	3#600, 1#1/0G.	3 1/2"	800A	3	3#400, 1#3/0 G.	3"
1000A	3	3#500, 1#2/0G.	3"	1000A	4	3#350, 1#4/0 G.	3"
1200A	4	3#350, 1#3/0G.	3"	1200A	4	3#500, 1#250 G.	3"
1600A	4	3#600, 1#4/0G.	3 1/2"	1600A	5	3#750, 1#350 G.	3 1/2"
	5	3#500, 1#4/0G.	3"				
2000A	5	3#600, 1#250G.	3 1/2"	2000A	6	3#750, 1#400 G.	3 1/2"
	6	3#500, 1#250G.	3"				
2500A	6	3#600, 1#350G.	3 1/2"	2500A	7	3#750, 1#600 G.	4"
	7	3#500, 1#350G.	3 1/2"				
3000A	8	3#500, 1#400G.	3 1/2"	3000A	8	3#750, 1#600 G.	4"
3500A	9	3#600, 1#500G.	3 1/2"	3500A	10	3#750, 1#750 G.	4"
	10	3#500, 1#500G.	3 1/2"				
4000A	10	3#600, 1#500G.	3 1/2"	4000A	11	3#750, 1#750 G.	4"
	11	3#500, 1#500G.	3 1/2"				

1. ALUMINUM CONDUCTORS SHALL BE COMPRESSION TYPE CONDUCTORS AND SHALL USE PENETROX WITH COMPRESSION TERMINATION FITTINGS.
2. ALUMINUM FEEDERS ARE NOT APPROVED FOR USE ON THE FOLLOWING:

- ALL HVAC EQUIPMENT
- TRANSFORMER SECONDARY
- ELEVATORS
- VARIABLE FREQUENCY DRIVE

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.

VLK | ARCHITECTS

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www.dbrinc.com

CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - ELECTRICAL ONE-LINE DIAGRAM

SHEET NO.
E37.11

DBR
713.914.0888 p
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK | RM/TD | LB/MS | TN/JL | LG/SS

Panelboard LCP

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire 1 Section 1 -Nema Rating	X MCB 100 AMP MCB MLO 100 AMP BUS (Copper)	X Single Double Feed - Thru	Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	720	EXISTING CIRCUIT	R	12	20/1	1	A	2	30/2	10	MT	EXISTING CIRCUIT	2400	1
1	900	EXISTING CIRCUIT	R	12	20/1	3	B	4	30/2	10	MT'	-	2400	
1	500	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	MT	EXISTING CIRCUIT	1500	1
1	828	EXISTING CIRCUIT	C	12	20/1	7	A	8	20/1	12	H	EXISTING CIRCUIT	300	1
1	540	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	100	1
1	720	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	600	1
4	200	**BATTERY CHARGER**	M	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	180	1
4	200	**JACKET HEATER**	M	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	250	1
4	200	**GEN. CONTROLS**	M	12	20/1	17	C	18	20/1	12	F	**EF-A-01 (1/25)**	253	2
1	200	EXISTING CIRCUIT	M	12	20/1	19	A	20	20/1	12	F	**DEF-A-01 (1/6)**	506	2
1	1080	EXISTING CIRCUIT	R	12	20/1	21	B	22	20/1	12	F	**SF-A-02 (1/6)**	828	2
1		SHUNT TRIP		12	20/1	23	C	24	20/1	12	F	**SF-A-01 (1/3)**	828	2
1	500	EXISTING CIRCUIT	M	12	20/1	25	A	26	20/1	12	F	**EF-A-05 (1/2)**	1127	2
1	500	EXISTING CIRCUIT	M	12	20/1	27	B	28	20/1	12	R	EXISTING CIRCUIT	200	1
1	200	EXISTING CIRCUIT	M	12	20/1	29	C	30				SHUNT TRIP		
1	540	EXISTING CIRCUIT	R	12	20/1	31	A	32	20/1	12		EXISTING CIRCUIT	720	1
1	0	EXISTING CIRCUIT		10	30/3	33	B	34	20/1	12	F	**EF-A-02 (1/25)**	253	2
	0	-		10	30/3	35	C	36	20/1	12	R	EXISTING CIRCUIT	500	1
	0	-		10	30/3	37	A	38	20/1	12	MT	EXISTING CIRCUIT	500	1
2	508	**EF-A03 (1/6)**	F	12	20/1	39	B	40	20/1	12	R	EXISTING CIRCUIT	200	1
2	508	**EF-A04 (1/6)**	F	12	20/1	41	C	42	20/1	12	F	**EF-A-06 (1/25)**	253	2
	8,844	Subtotal										Subtotal	13,898	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	7,030		7,030	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	828	100%	828	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	300	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	5,064	100%	5,064	220.50	(MT) Lrg. Mot.	4,400	125%	5,500
	(M) Misc.	2,000	100%	2,000		(SP) Sub Panel	0	100%	0

Total Connected Load = 19,622 VA = 54.5 AMPS
Total Load (Diversified)= 20,422 VA = 56.7 AMPS
Location of Panel:

Panelboard LC2

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire 2 Section 1 -Nema Rating	X MCB 225 AMP MCB MLO 225 AMP BUS (Copper)	Single Double X Feed - Thru	Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	750	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	360	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	325	1
1	540	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	720	1
1	750	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	720	1
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	360	1
1	540	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	750	1
1	750	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	720	1
1	1080	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	F	**EF-C-01 (1/6)**	500	2
1	540	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT		1
1	750	EXISTING CIRCUIT	R	12	20/1	19	A	20	20/1	12	R	EXISTING CIRCUIT		1
1	1080	EXISTING CIRCUIT	R	12	20/1	21	B	22	20/1	12	R	EXISTING CIRCUIT		1
1	540	EXISTING CIRCUIT	R	12	20/1	23	C	24	20/1	12	R	EXISTING CIRCUIT		1
1	750	EXISTING CIRCUIT	R	12	20/1	25	A	26	20/1	12	R	EXISTING CIRCUIT		1
1	1080	EXISTING CIRCUIT	R	12	20/1	27	B	28	20/1	12	R	EXISTING CIRCUIT		1
1	540	EXISTING CIRCUIT	R	12	20/1	29	C	30	20/1	12	R	EXISTING CIRCUIT		1
1	750	EXISTING CIRCUIT	R	12	20/1	31	A	32	30/3	10	SP	**SPD**		
1	1080	EXISTING CIRCUIT	R	12	20/1	33	B	34	30/3	10	SP	-		
1	540	EXISTING CIRCUIT	R	12	20/1	35	C	36	30/3	10	SP			
1	750	EXISTING CIRCUIT	R	12	20/1	37	A	38				SPACE		
1	1080	EXISTING CIRCUIT	R	12	20/1	39	B	40				SPACE		
1	540	EXISTING CIRCUIT	R	12	20/1	41	C	42				SPACE		
1	325	EXISTING CIRCUIT	R	12	20/1	43	A	44	20/1	12	R	EXISTING CIRCUIT		1
1	1440	EXISTING CIRCUIT	R	12	20/1	45	B	46	20/1	12	R	EXISTING CIRCUIT		1
1	500	EXISTING CIRCUIT	R	12	20/1	47	C	48	20/1	12	R	EXISTING CIRCUIT		1
1	1440	EXISTING CIRCUIT	R	12	20/1	49	A	50	20/1	12	R	EXISTING CIRCUIT		1
1	750	EXISTING CIRCUIT	R	12	20/1	51	B	52	20/1	12	R	EXISTING CIRCUIT		1
1	720	EXISTING CIRCUIT	R	12	20/1	53	C	54	20/1	12	R	EXISTING CIRCUIT		1
1	900	EXISTING CIRCUIT	R	12	20/1	55	A	56	20/1	12	R	EXISTING CIRCUIT		1
1	750	EXISTING CIRCUIT	R	12	20/1	57	B	58	20/1	12	R	EXISTING CIRCUIT		1
1	720	EXISTING CIRCUIT	R	12	20/1	59	C	60	20/1	12	R	EXISTING CIRCUIT		1
1	900	EXISTING CIRCUIT	R	12	20/1	61	A	62	20/1	12	R	EXISTING CIRCUIT		1
1	750	EXISTING CIRCUIT	R	12	20/1	63	B	64	20/1	12	R	EXISTING CIRCUIT		1
1	720	EXISTING CIRCUIT	R	12	20/1	65	C	66	20/1	12	R	EXISTING CIRCUIT		1
1	900	EXISTING CIRCUIT	R	12	20/1	67	A	68	20/1	12	R	EXISTING CIRCUIT		1
		SPARE				69	B	70				SPACE		
		SPARE				71	C	72				SPACE		
		SPARE				73	A	74				SPACE		
		SPARE				75	B	76				SPACE		
		SPARE				77	C	78				SPACE		
		SPARE				79	A	80				SPACE		
		SPARE				81	B	82				SPACE		
		SPARE				83	C	84				SPACE		
	27,405	Subtotal										Subtotal	4,455	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	31,360		20,680	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	500	100%	500	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 31,860 VA = 88.5 AMPS
Total Load (Diversified)= 21,180 VA = 58.8 AMPS
Location of Panel:

Panelboard HA2

10,000 AIC...
X Existing
New

277/480 Volt,3-Phase,4-Wire 1 Section 1 -Nema Rating	MCB XXX AMP MCB X MLO 225 AMP BUS (Copper)	X Single Double Feed - Thru	Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	200	EXISTING CIRCUIT	L	12	20/1	1	A	2	20/3	12		EXISTING CIRCUIT	2104	1
1	1520	EXISTING CIRCUIT	L	12	20/1	3	B	4	20/3	12		-	2104	
1	1824	EXISTING CIRCUIT	L	12	20/1	5	C	6	20/3	12		-	2104	
1	1920	EXISTING CIRCUIT	L	12	20/1	7	A	8	20/3	12		EXISTING CIRCUIT	2104	1
1	2560	EXISTING CIRCUIT	L	12	20/1	9	B	10	20/3	12		-	2104	
1	2560	EXISTING CIRCUIT	L	12	20/1	11	C	12	20/3	12		-	2104	
1	2560	EXISTING CIRCUIT	L	12	20/1	13	A	14	20/1	12		EXISTING CIRCUIT	1728	1
1	2560	EXISTING CIRCUIT	L	12	20/1	15	B	16	20/1	12		EXISTING CIRCUIT	1728	1
1	2560	EXISTING CIRCUIT	L	12	20/1	17	C	18	20/1	12		EXISTING CIRCUIT	1440	1
1	1536	EXISTING CIRCUIT	L	12	20/1	19	A	20	20/3	12		EXISTING CIRCUIT	941	1
		SPARE		12	20/1	21	B	22	20/3	12		-	941	
1	520	EXISTING CIRCUIT	L	12	20/1	23	C	24	20/3	12		-	941	
		SPACE				25	A	26	20/1	12		EXISTING CIRCUIT	1076	1
		SPACE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
		SPACE				31	A	32				SPACE		
		SPACE				33	B	34				SPACE		
		EXISTING CIRCUIT	L	12	20/1	35	C	36				SPACE		
2	**1400**	**DOWNLIGHTS**	**L**	**12**	**20/1**	37	A	38	70/3	4	SP	EXISTING CIRCUIT	8065	1
1	2800	EXISTING CIRCUIT	L	10	30/2	39	B	40	70/3	4	SP	EXISTING CIRCUIT	8065	1
1	2800	EXISTING CIRCUIT	L	10	30/2	41	C	42	70/3	4	SP	EXISTING CIRCUIT	8065	1
	27,320	Subtotal										Subtotal	45,614	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	27,320	125%	34,150
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	24,195	100%	24,195

Total Connected... 51,515 VA = 62.0 AMPS
Total Load... 58,345 VA = 70.2 AMPS
Location of Panel:

Panelboard LB1

0 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire 2 Section 1 -Nema Rating	X MCB XXX AMP MCB MLO XXX AMP BUS (Copper)	Single Double X Feed - Thru	Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	540	EXISTING CIRCUIT	K	12	20/1	1	A	2	20/1	12	M	EXISTING CIRCUIT	325	1
1	540	EXISTING CIRCUIT	K	12	20/1	3	B	4	20/1	12	M	EXISTING CIRCUIT	325	1
1	850	EXISTING CIRCUIT	K	12	20/1	5	C	6	20/1	12	M	EXISTING CIRCUIT	325	1
1	1500	EXISTING CIRCUIT	K	12	20/1	7	A	8	20/1	12	R	SPARE		
1	1500	EXISTING CIRCUIT	K	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	720	1
1	600	EXISTING CIRCUIT	K	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	1080	1
1	1500	EXISTING CIRCUIT		12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	750	1
1	1080	EXISTING CIRCUIT		12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	720	1
1	540	EXISTING CIRCUIT		12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	900	1
1	1500	EXISTING CIRCUIT		12	20/1	19	A	20	20/1	12	R	EXISTING CIRCUIT	750	1
1	1080	EXISTING CIRCUIT		12	20/1	21	B	22	20/1	12	R	EXISTING CIRCUIT	720	1
1	540	EXISTING CIRCUIT		12	20/1	23	C	24	20/1	12	R	EXISTING CIRCUIT	900	1
1	750	EXISTING CIRCUIT		12	20/1	25	A	26	**15/1**	**12**	**F**	**EF-B-01 (1/6)**	**506**	**2**
1	1080	EXISTING CIRCUIT		12	20/1	27	B	28	**15/1**	**12**	**F**	**EF-B-01 (1/6)**	**506**	**2**
1	540	EXISTING CIRCUIT		12	20/1	29	C	30	20/1	12	R	EXISTING CIRCUIT		1
1	750	EXISTING CIRCUIT		12	20/1	31	A	32	20/1	12	R	EXISTING CIRCUIT		1
1	1080	EXISTING CIRCUIT		12	20/1	33	B	34	20/1	12	R	EXISTING CIRCUIT		1
1	540	EXISTING CIRCUIT		12	20/1	35	C	36	20/1	12	R	EXISTING CIRCUIT		1
1	900	EXISTING CIRCUIT		12	20/1	37	A	38				SPARE		
		SPARE		12	20/1	39	B	40				SPARE		
1	540	EXISTING CIRCUIT		12	20/1	41	C	42				SPARE		
1	1500	EXISTING CIRCUIT		12	20/1	43	A	44	30/3	10	SP	EXISTING CIRCUIT	0	1
1	1080	EXISTING CIRCUIT		12	20/1	45	B	46	30/3	10	SP	-	0	
1	540	EXISTING CIRCUIT		12	20/1	47	C	48	30/3	10	SP	-	0	
1	360	EXISTING CIRCUIT		12	20/1	49	A	50	20/1	12	R	EXISTING CIRCUIT	325	1
1	1500	EXISTING CIRCUIT		12	20/1	51	B	52	20/1	12	R	EXISTING CIRCUIT	1500	1
1	1080	EXISTING CIRCUIT		12	20/1	53	C	54	20/1	12	R	EXISTING CIRCUIT	1080	1
1	540	EXISTING CIRCUIT		12	20/1	55	A	56	20/1	12	R	EXISTING CIRCUIT	540	1
1	1500	EXISTING CIRCUIT		12	20/1	57	B	58	20/1	12	R	EXISTING CIRCUIT	750	1
1	1080	EXISTING CIRCUIT		12	20/1	59	C	60	20/1	12	R	EXISTING CIRCUIT	720	1
1	540	EXISTING CIRCUIT		12	20/1	61	A	62	20/1	12	R	EXISTING CIRCUIT	900	1
1	1500	EXISTING CIRCUIT		12	20/1	63	B	64	20/1	12	R	EXISTING CIRCUIT	750	1
1	1080	EXISTING CIRCUIT		12	20/1	65	C	66	20/1	12	R	EXISTING CIRCUIT	720	1
1	540	EXISTING CIRCUIT		12	20/1	67	A	68	20/1	12	R	EXISTING CIRCUIT	900	1
		SPARE		12	20/1	69	B	70	20/1	12	R	EXISTING CIRCUIT	750	1
		SPARE		12	20/1	71	C	72	20/1	12	R	EXISTING CIRCUIT	720	1
		SPARE		12	20/1	73	A	74	20/1	12	R	EXISTING CIRCUIT	900	1
		SPARE		12	20/1	75	B	76				SPACE		
		SPARE		12	20/1	77	C	78				SPACE		
		SPACE				79	A	80				SPACE		
		SPACE				81	B	82				SPACE		
		SPACE				83	C	84				SPACE		
	30,790	Subtotal										Subtotal	19,082	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	17,095		13,548	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	5,530	65%	3,595		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	1,012	100%	1,012	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	975	100%	975		(SP) Sub Panel	0	100%	0

Total Connected Load = 24,612 VA = 68.4 AMPS
Total Load (Diversified)= 19,129 VA = 53.1 AMPS
Location of Panel:

Panelboard LA2

10,000 AIC Rating
X Existing
New

120/208 Volt,3-Phase,4-Wire 1 Section 1 -Nema Rating	X MCB 150 AMP MCB MLO 225 AMP BUS (Copper)	X Single Double Feed - Thru	Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	1080	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	900	1
1	1080	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	900	1
1	1280	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	500	1
1	540	EXISTING CIRCUIT	R	12	20/1	7	A	8	20/1	12	R	EXISTING CIRCUIT	360	1
1	1080	EXISTING CIRCUIT	R	12	20/1	9	B	10	20/1	12	R	EXISTING CIRCUIT	100	1
1	900	EXISTING CIRCUIT	R	12	20/1	11	C	12	20/1	12	R	EXISTING CIRCUIT	100	1
1	900	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/1	12	R	EXISTING CIRCUIT	180	1
1	720	EXISTING CIRCUIT	R	12	20/1	15	B	16	20/1	12	R	EXISTING CIRCUIT	180	1
1	900	EXISTING CIRCUIT	R	12	20/1	17	C	18	20/1	12	R	EXISTING CIRCUIT	900	1
		SPARE		6	60/3	19	A	20	20/1	12	R	EXISTING CIRCUIT	900	1
		-		6	60/3	21	B	22	20/1	12	R	EXISTING CIRCUIT	900	1
		-		6	60/3	23	C	24	20/1	12	R	EXISTING CIRCUIT	900	1
1	900	EXISTING CIRCUIT	R	12	20/1	25	A	26	20/3	12	MT	EXISTING CIRCUIT	600	1
1	250	EXISTING CIRCUIT				27	B	28	20/3	12	MT	-	600	
1	600	EXISTING CIRCUIT	MT	10	30/3	29	C	30	20/3	12	MT	-	600	
	600	-	MT	10	30/3	31	A	32	20/1	12	R	EXISTING CIRCUIT		1
	600	-	MT	10	30/3	33	B	34				SPACE		
3	250	**TOUCH SCREEN**	R	12	20/1	35	C	36				SPACE		
		SPACE				37	A	38				SPACE		
		SPACE				39	B	40				SPACE		
		SPACE				41	C	42				SPACE		
	11,680	Subtotal										Subtotal	8,620	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	16,450		13,225	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	3,600	125%	4,500
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 20,050 VA = 55.7 AMPS
Total Load (Diversified)= 17,725 VA = 49.2 AMPS
Location of Panel:

Panelboard HB2

65,000 AIC...
X Existing
New

277/480 Volt,3-Phase,4-Wire 1 Section 1 -Nema Rating	MCB XXX AMP MCB X MLO 225 AMP BUS (Copper)	X Single Double Feed - Thru	Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	1824	EXISTING CIRCUIT	L	12	20/1	1	A	2	20/1	12		SPARE		
1	1920	EXISTING CIRCUIT	L	12	20/1	3	B	4	**20/1**	**12**	**L**	**WALL PACKS**	**2522**	**2**
1	1920	EXISTING CIRCUIT	L	12	20/1	5	C	6				SPARE		
1	1798	EXISTING CIRCUIT	L	12	20/1	7	A	8	30/3	10	L	EXISTING CIRCUIT		1
1	1214	EXISTING CIRCUIT	L			9	B	10	-			-		1
	1000	SPARE				11	C	12	-			-		1
1	1987	EXISTING CIRCUIT	L	12	20/1	13	A	14	20/1	12	L	EXISTING CIRCUIT		1
1	960	EXISTING CIRCUIT	L	12	20/1	15	B	16	20/1	12	L	EXISTING CIRCUIT		1
1	1248	EXISTING CIRCUIT	L	12	20/1	17	C	18	20/1	12	L	EXISTING CIRCUIT		1
1	1766	EXISTING CIRCUIT	L	12	20/1	19	A	20	20/3	12	L	EXISTING CIRCUIT		1
1	2000	EXISTING CIRCUIT	L			21	B	22	-			-		1
		SPARE				23	C	24	-			-		1
1	2000	EXISTING CIRCUIT	L	12	20/1	25	A	26	20/3	12	L	EXISTING CIRCUIT		1
1	2000	EXISTING CIRCUIT	L	12	20/1	27	B	28	-			-		1
1		EXISTING CIRCUIT	L			29	C	30	-			-		1
2	**800**	**DOWNLIGHTS**	**EL**	**12**	**20/1**	31	A	32	20/3	12	L	EXISTING CIRCUIT		1
		SPARE				33	B	34	-			-		1
1	1880	EXISTING CIRCUIT	L	12	20/1	35	C	36	-			-		1
1	1758	EXISTING CIRCUIT	L	12	20/1	37	A	38	125/3	1	SP	EXISTING CIRCUIT		1
1	1250	EXISTING CIRCUIT	L	12	20/1	39	B	40	-		SP	-		
1	775	EXISTING CIRCUIT	L	12	20/1	41	C	42	-		SP	-		
	28,100	Subtotal										Subtotal	2,522	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	28,822	125%	36,028
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	800	125%	1,000
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected... 29,622 VA = 35.6 AMPS
Total Load... 37,028 VA = 44.6 AMPS
Location of Panel:

Panelboard HA1

65,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire 1 Section 1 -Nema Rating	X MCB 225 AMP MCB MLO 225 AMP BUS (Copper)	X Single Double Feed - Thru	Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	1152	EXISTING CIRCUIT	R	12	20/1	1	A	2	20/1	12	R	EXISTING CIRCUIT	900	1
1	1728	EXISTING CIRCUIT	R	12	20/1	3	B	4	20/1	12	R	EXISTING CIRCUIT	900	1
1	768	EXISTING CIRCUIT	R	12	20/1	5	C	6	20/1	12	R	EXISTING CIRCUIT	900	1
1	2134	EXISTING CIRCUIT	R	12	20/1	7	A	8	30/3	10	WH	**EWH-1**	**2670**	**2**
1	1920	EXISTING CIRCUIT	R	12	20/1	9	B	10	30/3	10	WH	**-**	**2670**	**2**
1	2304	EXISTING CIRCUIT	R	12	20/1	11	C	12	30/3	10	WH	**-**	**2670**	**2**
1	1000	EXISTING CIRCUIT	R	12	20/1	13	A	14	20/3	12	F	EXISTING CIRCUIT	941	1
		SPACE				15	B	16	20/3	12	F	-	941	
		SPACE				17	C	18	20/3	12	F	-	941	
		SPACE				19	A	20	20/1	12	R	EXISTING CIRCUIT	900	1
		SPACE				21	B	22	20/1	12	R	EXISTING CIRCUIT	900	1
		SPACE				23	C	24				SPACE		
		SPACE				25	A	26	125/3	1	SP	EXISTING XFMR	13000	1
		SPACE				27	B	28	125/3	1	SP	-	13000	
		SPACE				29	C	30	125/3	1	SP	-	13000	
	11,006	Subtotal										Subtotal	54,333	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	15,506		12,753	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	8,010	100%	8,010
220.60	(F) Fans	2,823	100%	2,823	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	39,000	100%	39,000

Total Connected Load = 65,339 VA = 78.6 AMPS
Total Load (Diversified)= 62,586 VA = 75.3 AMPS
Location of Panel:

Panelboard HC2

65,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire 1 Section 1 -Nema Rating	MCB XXX AMP MCB X MLO 250 AMP BUS (Copper)	X Single Double Feed - Thru	Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	1987	EXISTING CIRCUIT	L	12	20/1	1	A	2	30/3	10	F	EXISTING CIRCUIT		1
1	1987	EXISTING CIRCUIT	L	12	20/1	3	B	4	30/3	10	F	-		
1	1987	EXISTING CIRCUIT	L	12	20/1	5	C	6	30/3	10	F	-		
1	1632	EXISTING CIRCUIT	L	12	20/1	7	A	8				SPACE		
1	1880	EXISTING CIRCUIT	L	12	20/1	9	B	10				SPACE		
1	1325	EXISTING CIRCUIT	L	12	20/1	11	C	12				SPACE		
1	1967	EXISTING CIRCUIT	L	12	20/1	13	A	14				SPACE		
1	1967	EXISTING CIRCUIT	L	12	20/1	15	B	16				SPACE		
1	1056	EXISTING CIRCUIT	L	12	20/1	17	C	18				SPACE		
1	1723	EXISTING CIRCUIT	L	12	20/1	19	A	20	20/3	12	F	EXISTING CIRCUIT		
1	1500	EXISTING CIRCUIT	L	12	20/1	21	B	22	20/3	12	F	-		
1	1500	EXISTING CIRCUIT		12	20/1	23	C	24	20/3	12	F	-		
1	1500	EXISTING CIRCUIT		12	20/3	25	A	26	20/1	12	L	EXISTING CIRCUIT		
		-		12	20/3	27	B	28				SPACE		
		-		12	20/3	29	C	30				SPACE		
3	**500**	**WALL PACKS**	**L**	**12**	**20/1**	31	A	32	20/3	12	WH	**EWH-2**	**2700**	**2**
1	1500	EXISTING CIRCUIT	L			33	B	34	20/3	12	WH	**-**	**2700**	**2**
		SPACE				35	C	36	20/3	12	WH	**-**	**2700**	**2**
1	1500	EXISTING CIRCUIT	L			37	A	38	125/3	1	SP	EXISTING XFMR	12000	1
		SPACE				39	B	40	125/3	1	SP	-	12000	
1	1000	EXISTING CIRCUIT	L			41	C	42	125/3	1	SP	-	1200	
	26,511	Subtotal										Subtotal	33,300	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	23,511	125%	29,389
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	8,100	100%	8,100
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	25,200	100%	25,200

Total Connected Load = 56,811 VA = 68.4 AMPS
Total Load (Diversified)= 62,689 VA = 75.4 AMPS
Location of Panel:

Panelboard HCP

10,000 AIC...
X Existing
New

277/480 Volt,3-Phase,4-Wire 1 Section 1 -Nema Rating	MCB XXX AMP MCB X MLO 225 AMP BUS (Copper)	X Single Double Feed - Thru	Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
		EXISTING CIRCUIT		12	20/2	1	A	2	20/3	12		EXISTING CIRCUIT	2104	
		-		12	20/2	3	B	4	20/3	12		-	2104	
		EXISTING CIRCUIT		12	20/1	5	C	6	20/3	12		-	2104	
		EXISTING CIRCUIT		12	20/1	7	A	8	30/3	10		EXISTING CIRCUIT	2660	
		EXISTING CIRCUIT		12	20/1	9	B	10	30/3	10		-	2660	
		EXISTING CIRCUIT		12	20/1	11	C	12	30/3	10		-	2660	
		EXISTING CIRCUIT		12	20/1	13	A	14	30/3	10		EXISTING CIRCUIT		
		EXISTING CIRCUIT		12	20/1	15	B	16	30/3	10		-		
		EXISTING CIRCUIT		12	20/1	17	C	18	30/3	10		-		
		EXISTING CIRCUIT		12	20/1	19	A	20	20/1	12		EXISTING CIRCUIT		
		SPARE				21	B	22	20/1	12		EXISTING CIRCUIT		
		SPARE				23	C	24	20/1	12		EXISTING CIRCUIT		
		SPACE				25	A	26	20/1	12		EXISTING CIRCUIT		
		SPACE				27	B	28						
		SPACE				29	C	30						
		SPACE				31	A	32	30/3	10		EXISTING CIRCUIT		
		SPACE				33	B	34	30/3	10		-		
		EXISTING CIRCUIT		12	20/1	35	C	36	30/3	10		-		
	1000	**EXTERIOR LTG**	EL	**12**	**20/1**	37	A	38	125/3	1	SP	EXISTING CIRCUIT	7399	
		EXISTING CIRCUIT		10	30/2	39	B	40	125/3	1	SP	-	7399	
		-		10	30/2	41	C	42	125/3	1	SP	-	7399	
	1,000	Subtotal										Subtotal	36,489	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	1,000	125%	1,250
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	22,197	100%	22,197

Total Connected... 23,197 VA = 27.9 AMPS
Total Load... 23,447 VA = 28.2 AMPS
Location of Panel:

PANEL SCHEDULE GENERAL NOTES:

A. ALL CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY AVAILABILITY OF BREAKERS AFTER DEMOLITION. CONTRACTOR SHALL UTILIZE EXISTING SPARE BREAKERS. PROVIDE ALTERNATE PRICING FOR ADDITIONAL 100A PANEL IF REQUIRED DUE TO LACK OF SPACE.

PANEL SCHEDULE NOTES:

1. EXISTING LOAD SHALL REMAIN.
2. CONNECT NEW BRANCH CIRCUIT TO EXISTING SPARE BREAKER.
3. REPLACE EXISTING SPACE WITH NEW BREAKER INDICATED.
4. REPLACE EXISTING BREAKER WITH NEW BREAKER INDICATED.

DBR
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TBPE Firm Registration No. 2234
DBR Project # 240244

EK	RM/TD	LB/MS	TN/JL	LG/SS

VLK | ARCHITECTS

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CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2023.402

CCISD Priority Repairs - FAPE GOFE ROBE

WILLIAM MEISTER
101184
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No. Revision Date

Director Drawn By
Approver DBR
Designer Quality Control
Designer
Proj. Arch.
DBR

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - ELECTRICAL SCHEDULES

SHEET NO.
E37.12

Panelboard EHA2

65,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire | 1 Section | 1 -Nema Rating | X MCB MLO | 100 AMP MCB AMP BUS (Copper) | X Single Double Feed - Thru | X Mounting Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	3573	EXISTING CIRCUIT	M	12	20/1	1	A	2	20/1	12	L	EXISTING CIRCUIT	1710	1
		SPACE		12	20/1	3	B	4	20/1	12	L	EXISTING CIRCUIT	1710	1
		SPACE				5	C	6	20/1	12	L	EXISTING CIRCUIT	1500	1
		SPACE				7	A	8				SPACE		
		SPACE				9	B	10	**20/1**	**12**	**L**	**DOWNLIGHTS**	**500**	**3**
		SPACE				11	C	12				SPACE		
		SPACE				13	A	14				SPACE		
		SPACE				15	B	16				SPACE		
		SPACE				17	C	18				SPACE		
		SPACE				19	A	20				SPACE		
		SPACE				21	B	22				SPACE		
		SPACE				23	C	24				SPACE		
		SPACE				25	A	26	30/3	10	SP	EXISTING CIRCUIT	2000	1
		SPACE				27	B	28	30/3	10	SP	-	2000	1
		SPACE				29	C	30	30/3	10	SP	-	2000	1
	3,573	Subtotal										Subtotal	11,420	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	5,420	125%	6,775
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	3,573	100%	3,573		(SP) Sub Panel	6,000	100%	6,000

Total Connected Lo... 14,993 VA = 18.0 AMPS
Total Load... 16,348 VA = 19.7 AMPS

Location of Panel:

Panelboard EHB2

0 AIC...
X Existing
New

277/480 Volt,3-Phase,4-Wire | 1 Section | 1 -Nema Rating | X MCB MLO | XXX AMP MCB XXX AMP BUS (Copper) | X Single Double Feed - Thru | X Mounting Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1		EXISTING CIRCUIT	L	10	30/3	1	A	2	20/1	12	L	EXISTING CIRCUIT		**1**
1		EXISTING CIRCUIT	L	10	30/3	3	B	4	**20/1**	**12**	**EL**	**EM. WALLPACKS**		**2**
1		EXISTING CIRCUIT	L	10	30/3	5	C	6	20/1	12	L	EXISTING CIRCUIT		**1**
1		EXISTING CIRCUIT	L	12	20/1	7	A	8	20/1	12	L	EXISTING CIRCUIT		**1**
1		EXISTING CIRCUIT	L	12	20/1	9	B	10	20/1	12	L	EXISTING CIRCUIT		**1**
1		EXISTING CIRCUIT	L	12	20/1	11	C	12	20/1	12		SPARE		
1		EXISTING CIRCUIT	L	12	20/1	13	A	14				SPACE		
		SPACE				15	B	16				SPACE		
		SPACE				17	C	18				SPACE		
		SPACE				19	A	20				SPACE		
		SPACE				21	B	22				SPACE		
		SPACE				23	C	24				SPACE		
		SPACE				25	A	26				SPACE		
		SPACE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
	0	Subtotal										Subtotal	0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected... 0 VA = 0.0 AMPS
Total Load... 0 VA = 0.0 AMPS

Location of Panel:

Panelboard EHC1

65,000 AIC Rating
X Existing
New

277/480 Volt,3-Phase,4-Wire | 1 Section | 1 -Nema Rating | X MCB MLO | 100 AMP MCB AMP BUS (Copper) | X Single Double Feed - Thru | X Mounting Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	3573	EXISTING CIRCUIT	M	12	20/1	1	A	2	20/1	12	L	EXISTING CIRCUIT	1710	1
		SPACE		12	20/1	3	B	4	20/1	12	L	EXISTING CIRCUIT	1710	1
		SPACE				5	C	6	20/1	12	L	EXISTING CIRCUIT	1500	1
		SPACE				7	A	8	**20/1**	**12**	**L**	**DOWNLIGHTS**	**500**	**2**
2	**500**	**WALLPACKS**	**L**	**12**	**20/1**	9	B	10	**20/1**	**12**	**L**	**DOWNLIGHTS**	**500**	**2**
		SPACE				11	C	12				SPACE		
		SPACE				13	A	14				SPACE		
		SPACE				15	B	16				SPACE		
		SPACE				17	C	18				SPACE		
		SPACE				19	A	20				SPACE		
		SPACE				21	B	22				SPACE		
		SPACE				23	C	24				SPACE		
		SPACE				25	A	26	30/3	10	SP	EXISTING CIRCUIT	1500	1
		SPACE				27	B	28	30/3	10	SP	-	1500	1
		SPACE				29	C	30	30/3	10	SP	-	1500	1
	4,073	Subtotal										Subtotal	5,920	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	6,420	125%	8,025
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	3,573	100%	3,573		(SP) Sub Panel	0	100%	0

Total Connected Lo... 9,993 VA = 12.0 AMPS
Total Load... 11,598 VA = 14.0 AMPS

Location of Panel:

PANEL SCHEDULE GENERAL NOTES:

A. ALL CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY AVAILABILITY OF BREAKERS AFTER DEMOLITION. CONTRACTOR SHALL UTILIZE EXISTING SPARE BREAKERS. PROVIDE ALTERNATE PRICING FOR ADDITIONAL 100A PANEL IF REQUIRED DUE TO LACK OF SPACE.

PANEL SCHEDULE NOTES:

1. EXISTING LOAD SHALL REMAIN.
2. CONNECT NEW BRANCH CIRCUIT TO EXISTING SPARE BREAKER.
3. REPLACE EXISTING SPACE WITH NEW BREAKER INDICATED.
4. REPLACE EXISTING BREAKER WITH NEW BREAKER INDICATED.

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CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director
Approver
Designer
Designer
Proj. Arch.
Checker

Drawn By
Author
Quality Control

PROJECT NO.

24-046.00

SHEET TITLE

ROBE - ELECTRICAL SCHEDULES

SHEET NO.

E37.13

DBR
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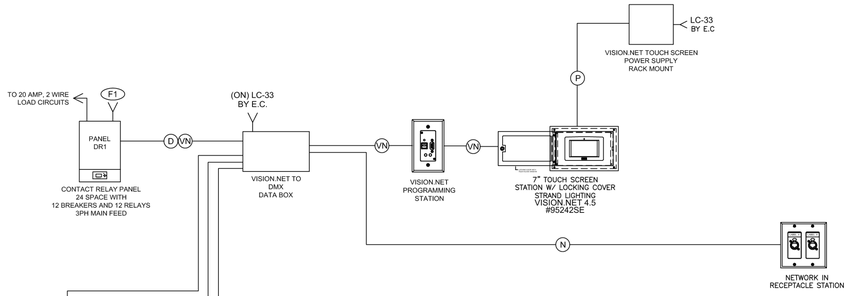
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TD LB/MS TN/JL LG/SS



NOTES;

1. THIS DRAWING DOES NOT INDICATE THE NUMBER OR SIZE OF CONDUITS REQUIRED, BUT THE SEPARATION OF GROUPS OF WIRES. INTERCONNECTING WIRE AND CONDUIT NOT BY STRAND LIGHTING.
2. WHEREVER CONTROL WIRES SHOWN MUST BE RUN CLOSE TO A.C. CONTROL AND/OR POWER CIRCUITS, THESE CONTROL WIRES MUST BE RUN IN SEPARATE METAL CONDUIT.
3. PROVIDE AN EQUIPMENT GROUND, AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, BETWEEN BUILDING SERVICE ENTRANCE AND THE DIMMER RACK.
4. BACK BOXES OF CONTROL STATIONS MUST BE GROUNDED.
5. SEPARATE NEUTRAL IS REQUIRED FOR EACH CIRCUIT.
6. ALL CONTROL CABLES MUST BE INSTALLED AS DEPICTED IN THE TOPOLOGY SHOWN IN THE SYSTEM RISER DRAWING. IT IS NOT PERMISSIBLE TO HAVE BRANCHING RUNS, STUB RUNS OR "WYE" CABLE TOPOLOGIES.
7. DMX CABLING UTILIZING BELDEN 1583A/1592A FOLLOWS ANSI E1.27-2: STANDARD WIRING PRACTICE FOR PERMANENTLY INSTALLED CONTROL CABLES FOR USE WITH ANSI E1.11 DMX512-A.

WIRES AND CABLES BY E.C.:

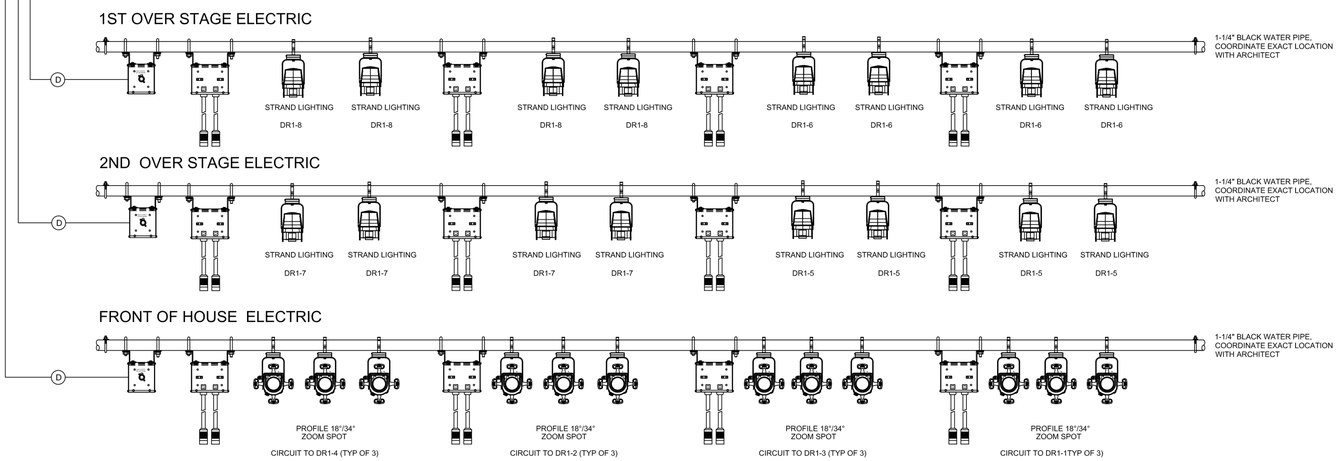
(D) (1) BELDEN #9829 (GRAY JACKET) CABLE - DMX (DO NOT EXCEED 1000 FT.)

(N) (1) BELDEN #1583A (BLUE JACKET) CABLE - NETWORK (DO NOT EXCEED 300 FT.)

(VN) (1) BELDEN #1583A (GREEN JACKET) CABLE - VISION.NET SIGNAL (DO NOT EXCEED 1000 FT.)

RELAY CABINET FEED BY E.C.:

(F1) 3Ø, 60A 4-WIRE WITH GROUND 120/208 VAC, 60Hz FEED CIRCUIT FROM PANEL LC.



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ISSUED: 11/14/2024

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Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch.	
DBR	

PROJECT NO.

24-046.00

SHEET TITLE

ROBE - ELECTRICAL DETAILS

SHEET NO.

E37.14

DBR
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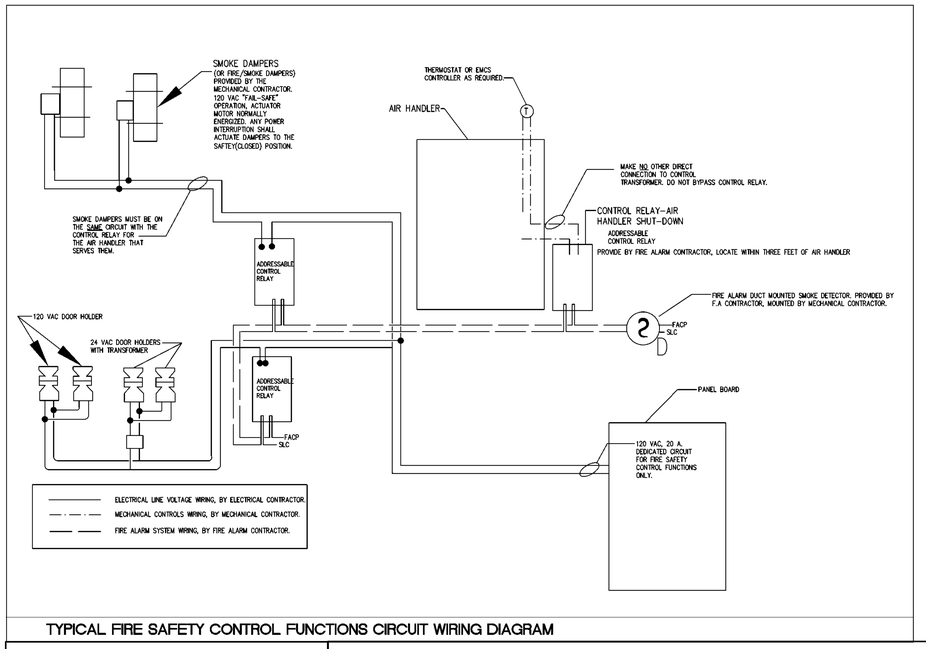
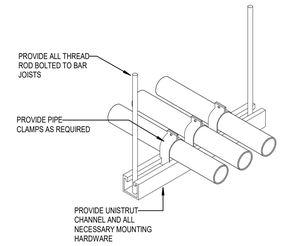
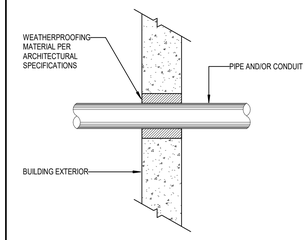
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 240244
EK RM/TDLB/MS TN/JL LG/SS



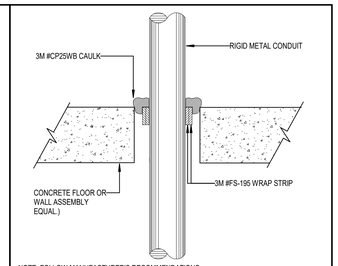
TYPICAL FIRE SAFETY CONTROL FUNCTIONS CIRCUIT WIRING DIAGRAM



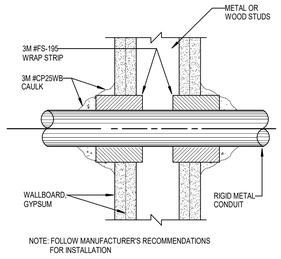
1 UNISTRUT CONDUIT DETAIL
NOT TO SCALE E1003



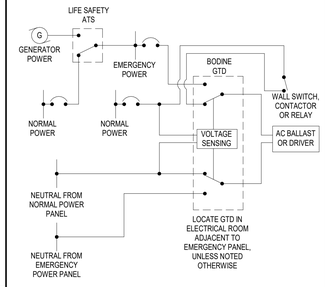
2 PIPE AND/OR CONDUIT PENETRATION
NOT TO SCALE E1007



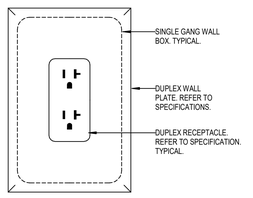
3 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE
NOT TO SCALE E1009



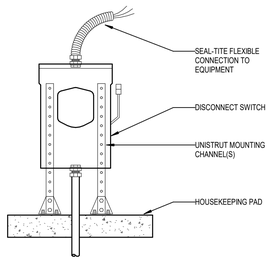
4 2 HR. GYPSUM WALLBOARD PIPE PENETRATION
NOT TO SCALE E1007



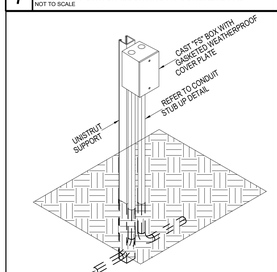
5 BODINE 20 AMP GTD DEVICE - UL 1008
NOT TO SCALE E1402



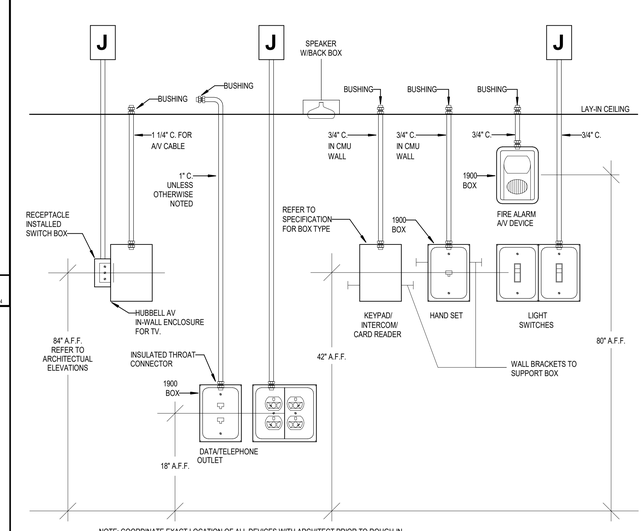
6 TYPICAL RECEPTACLE MOUNTING DETAIL
NOT TO SCALE E1009



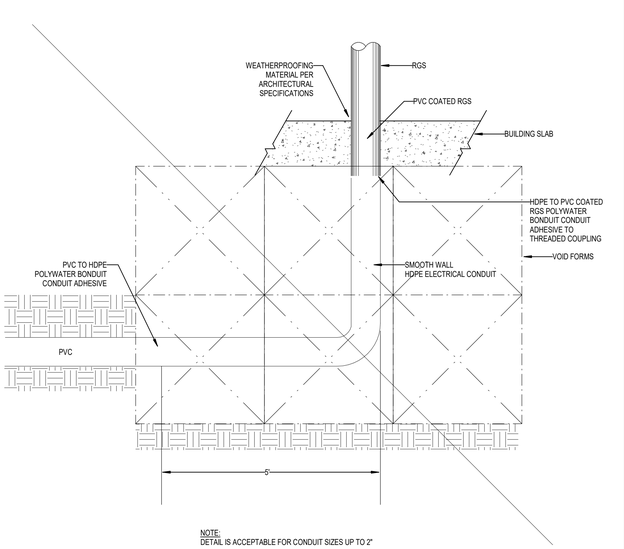
7 DICONNECT SWITCH MOUNTING AT CONCRETE PAD
NOT TO SCALE E1024



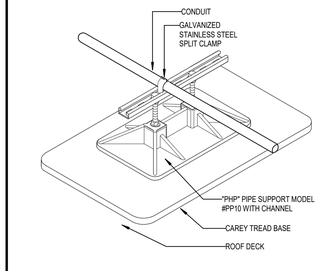
8 JUNCTION BOX MOUNTING
NOT TO SCALE E1003



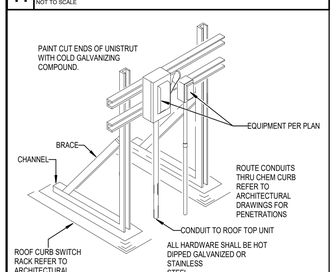
9 TYPICAL DEVICE ELEVATIONS
NOT TO SCALE E1001



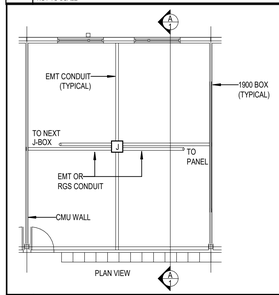
10 CONDUIT STUB-UP DETAIL
NOT TO SCALE E1023

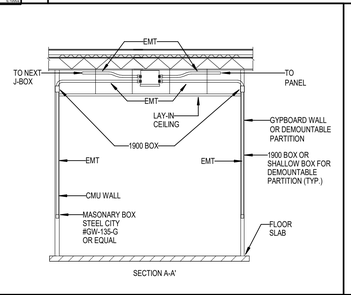


11 ROOF CONDUIT SUPPORT DETAIL
NOT TO SCALE

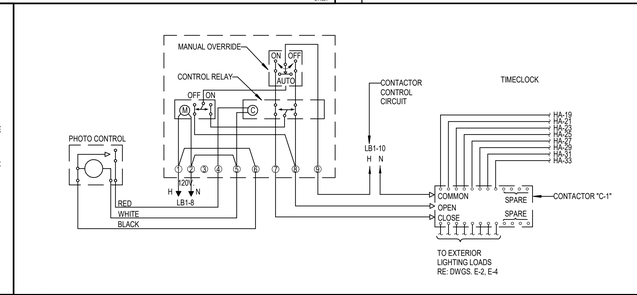


12 ROOF UNISTRUT RACK DETAIL
NOT TO SCALE E1005

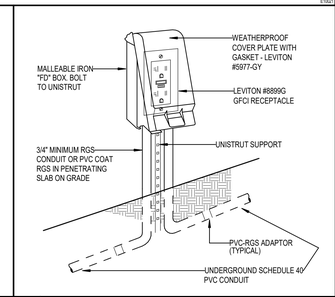




13 TYPICAL RACEWAY CONFIGURATION
NOT TO SCALE



14 EXTERIOR LIGHTING CONTROL
NOT TO SCALE E1403



15 RECEPTACLE MOUNTING DETAIL
NOT TO SCALE E1027

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CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	Author
Designer	Quality Control
Designer	
Proj. Arch.	
Checker	

PROJECT NO.
24-046.00

SHEET TITLE
ROBE - ELECTRICAL DETAILS

SHEET NO.
E37.15

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DBR Project # 240244
EK RM/TDLB/IMS TN/JL LG/SS

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
AC	AIR COMPRESSOR
AD	AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AUX	AUXILIARY
AV	ACID VENT
AVV	AIR ADMITTANCE VALVE
AW	ACID WASTE

B

B	BOILER
BF	BOTTLE FILLER
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
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
CI	CAST IRON
CIRC	CIRCULATING
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CMU	CONCRETE MASONRY UNIT
CL	CENTERLINE
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CP	CIRCULATING PUMP, CHROME PLATE
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTE	CONNECT TO EXISTING
CW	COLD WATER

D

DBP	DOMESTIC BOOSTER PUMP
DC	DOWNSPOUT COVER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN, DOWNSPOUT NOZZLE
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EL OR ELVA	ELEVATION
ES	EMERGENCY SHOWER
ESP	ELEVATOR SUMP PUMP
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWH	ELECTRIC WATER HEATER

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCV	FLOOR CONTROL VALVE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXSTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FL	FLOW LINES
FLEX	FLEXIBLE
FLR	FLOOR
FP	FIRE PUMP
FS	FLOW SWITCH, FIRE SPRINKLER FLOOR SINK
FT	FOOT, FEET
FW	FORCE WASTE, FILTER WATER

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GI	GREASE INTERCEPTOR
GL	GLOBE VALVE
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GV	GATE VALVE, GREASE VENT
GW	GREASE WASTE
GWH	GAS WATER HEATER

H

HB	HOSE BIBB
HC	HANDICAPPED
HD	HEAD, HUB DRAIN
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HR	HOSE REEL
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
IW	INDIRECT WASTE
IWH	INSTANTANEUOS WATER HEATER

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LT	LINT, LINT TRAP
LVL	LEVEL

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MS	MOP SINK
MSB	MOP SERVICE BASIN
MTD	MOUNTED
MUW	MAKE-UP WATER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE

O

O	MEDICAL OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OS&Y	OPEN STEM AND YOLK

P

PC	PLUMBING CONTRACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNL	PANEL
POU	POINT-OF-USE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYL IDENE FLUORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE REFER
RECIRC	RECIRCULATE
REFR	REFRIGERATOR
RH	ROOF HYDRANT
RM	ROOM
RO	REVERSE OSMOSIS
RPBF	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SHOOK ABSORBER
SC	SCHEDULE
SD	STORM DRAIN, SANITARY DRAIN
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SH	SHOWER
SHI	SOLID HAIR INTERCEPTOR
SI	SOLIDS INTERCEPTOR
SIM	SIMILAR
SK	SINK
SOS	SAND OIL SEPERATOR
SOV	SHUT-OFF VALVE
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK, SOIL STACK, STAINLESS STEEL
SSD	SUBSURFACE DRAIN
STD	STANDARD
STL	STEEL
STR	STRAINER
SV	SANITARY VENT
SW	SOFT WATER

T

TCO	TRAFFIC CLEANOUT
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TDL	TOTAL DEVELOPED LENGTH
TLT	TOILET
TMV	THERMOSTATIC MIXING VALVE
TOB	TOP OF BEAM
TOF	TOP OF FOOTER
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TS	TAMPER SWITCH
TYP	TYPICAL

U

U	URINAL
UF	UNDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
US	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VS	VENT STACK
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WADG	WASTE ANESTHETIC GAS DISPOSAL
WB	WALL BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WMB	WASHER MACHINE BOX
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER, WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WATERTIGHT, WEIGHT

Y

YCO	YARD CLEANOUT
YH	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

	SANITARY DRAIN BELOW FLOOR
S(E)	EXISTING SOIL OR WASTE PIPING B.G. - S(E)
	SANITARY DRAIN ABOVE FLOOR
S(E)	EXISTING SOIL OR WASTE PIPING A.G. - S(E)
	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(E)	EXISTING ACID WASTE PIPING A.G. - AW(E)
AW	ACID WASTE(BELOW FLOOR)
AW(E)	EXISTING ACID WASTE PIPING B.G. - AW(E)
AV	ACID VENT(ABOVE CEILING OR BELOW FLOOR)
AV(E)	EXISTING ACID VENT PIPING - AV(E)
NP-CW	NON-POTABLE - COLD WATER
	COLD WATER - CW
CW(E)	EXISTING DOMESTIC COLD WATER - CW(E)
	HOT WATER - HW
HW(E)	EXISTING DOMESTIC HOT WATER - HW(E)
	HOT WATER RECIRCULATION
HWR(E)	EXISTING DOMESTIC HOT WATER RETURN - HWR(E)
G (4oz)	NATURAL GAS (LOW PRESSURE)
G (2 PSI)	NATURAL GAS (MEDIUM PRESSURE)
G (5 PSI)	NATURAL GAS (HIGH PRESSURE)
T	TEMPERED WATER
A	COMPRESSED AIR
MA	MEDICAL AIR
O	MEDICAL OXYGEN
MV	MEDICAL VACUUM
F	FIRE STANDPIPE, FIRE LINE
FS	WET AUTOMATIC FIRE SPRINKLER
FW	FORCE WASTE
TP	TRAP PRIMER
D	DRAIN LINE
SW	SOFT WATER
LT	LINT WASTE
LP	LIQUIFIED PETROLEUM GAS
N	NITROGEN
N2O	NITROUS OXIDE
IA	INSTRUMENT AIR
WAGD	WASTE ANESTHETIC GAS DISPOSAL

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
- 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
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- WATER SUB-METER
- LOCAL ALARM
- MASTER ALARM
- AREA ALARM

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
- P.X.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
2021	INTERNATIONAL FIRE CODE
2021	INTERNATIONAL FUEL GAS CODE
2021	INTERNATIONAL ENERGY CODE

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CLEAR CREEK ISD
SEABROOK, TEXAS

CCISD PROJECT NO:
2025.402

CCISD Priority Repairs - FAPE GOFE ROBE

STATE OF TEXAS — WILLIAM MEISTER — 101154 — LICENSED PROFESSIONAL ENGINEER — 11/14/24

ISSUED: 11/14/2024

REVISIONS

Revision No.	Revision Date

Director	Drawn By
Approver	DBR
Designer	Quality Control
Designer	
Proj. Arch. DBR	

PROJECT NO.

24-046.00

SHEET TITLE

ROBE - PLUMBING SYMBOL LEGEND

SHEET NO.

P30.00

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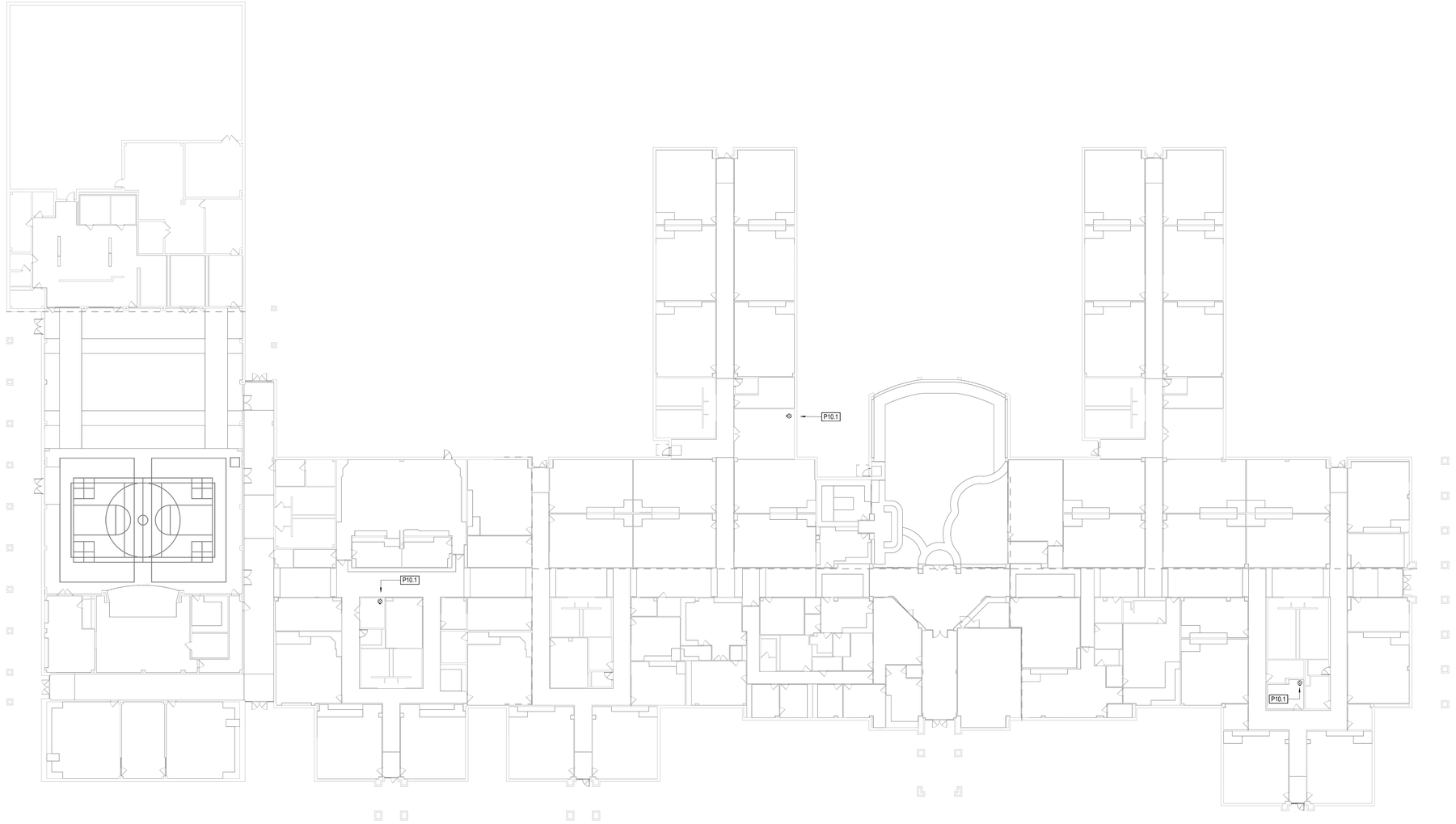
DBR Project # 240244
EK | RM/TDL | B/MS | TN/JL | LG/SS

PLUMBING KEYED NOTES

P10.1 CONTRACTOR SHALL DISCONNECT ALL EXISTING PIPING CONNECTIONS AT EXISTING ELECTRIC WATER HEATER AND PREPARE FOR NEW ELECTRIC WATER HEATER IN SAME PLACE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BACK TO THE MAIN. RE: NEW PLANS.



1 P32.00 **DEMO COMPOSITE PLUMBING PLAN - LEVEL ONE**
1" = 20'-0"

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KEY PLAN

STATE OF TEXAS
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101184
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24-046.00

SHEET TITLE
ROBE - DEMO COMPOSITE PLUMBING PLAN

SHEET NO.
P32.00

CCISD Priority Repairs - FAPE GOFE ROBE

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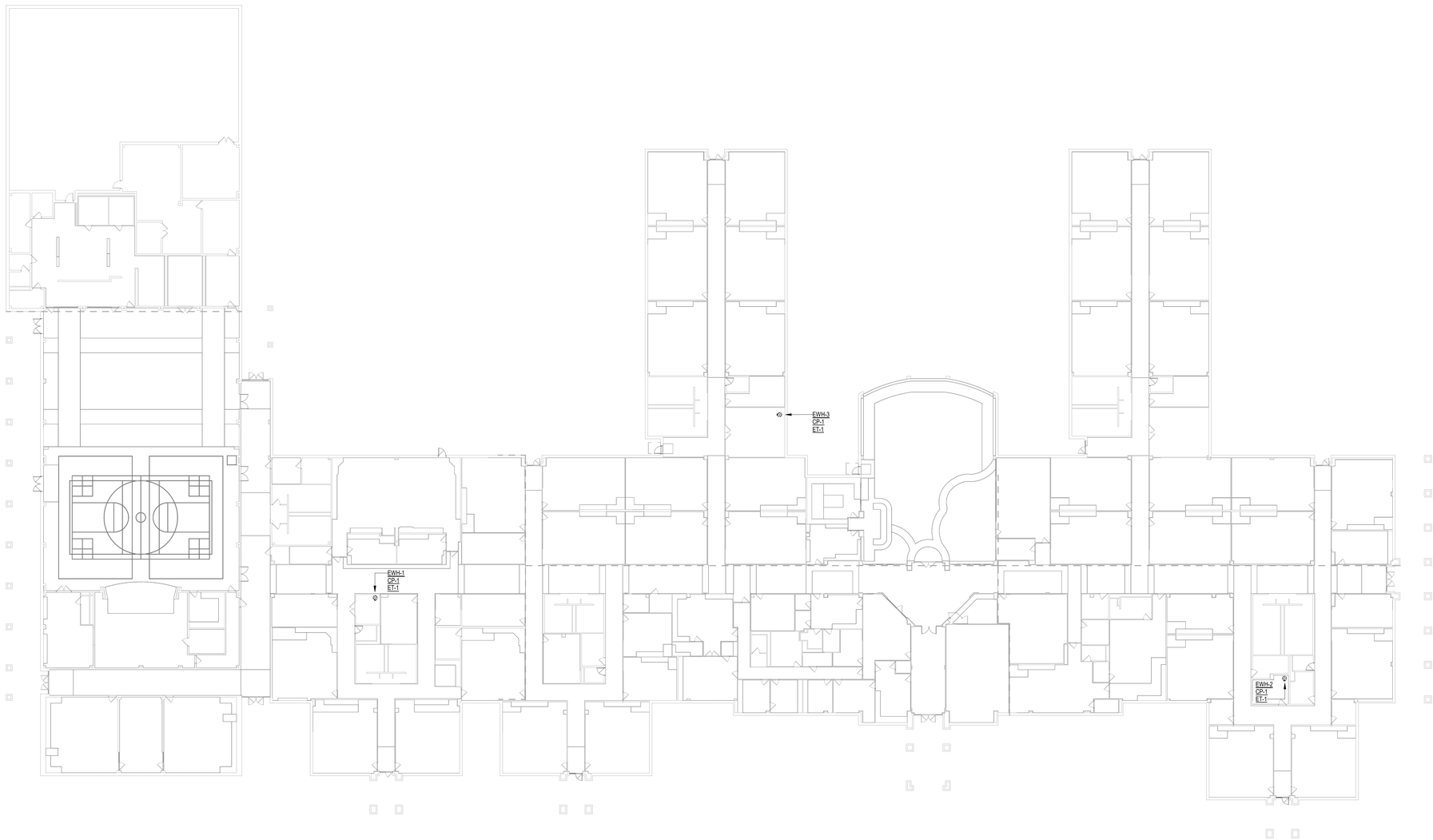
☐ PLUMBING KEYED NOTES



1 P32.10 **COMPOSITE PLUMBING PLAN - LEVEL ONE**
1" = 20'-0"

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ROBE - COMPOSITE PLUMBING PLAN

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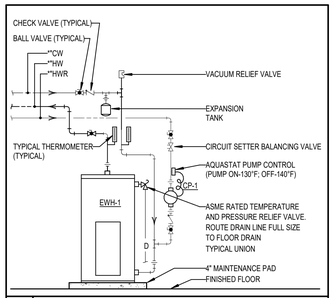
ELECTRIC WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL #	TYPE	FUEL	GALLONS	CW INLET	HW OUTLET	GPH RECOVERY @ 80° TEMP RISE	STANDBY LOSS (%/hour)	ELECTRICAL REQUIREMENTS			
										VOLTS (V)	PHASE	kW	AMPS
ELECTRIC WATER HEATER EWH-1	STATE	PCE 40 20LSA	STORAGE TANK	ELECTRIC	40	3/4"	3/4"	31	0.87	480	3	8.0	9.6
ELECTRIC WATER HEATER EWH-2	STATE	PCE 40 20LSA	STORAGE TANK	ELECTRIC	40	3/4"	3/4"	31	0.87	480	3	8.0	9.6
ELECTRIC WATER HEATER EWH-3	STATE	PCE 40 20LSA	STORAGE TANK	ELECTRIC	40	3/4"	3/4"	31	0.87	480	3	8.0	9.6

NOTES:
1. PROVIDE WITH WALL MOUNTED WATER HEATER PLATFORM.
2. PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE, AND DIAL THERMOMETER IN HW OUTLET PIPING
3. FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS, VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

PLAN MARK	MANUFACTURER	MODEL #	DESCRIPTION	ELECTRICAL REQUIREMENTS			
				VOLTS (V)	PHASE	kW	HP
CIRCULATION PUMP CP-1 (EWH-1)	GRUNDFOS	UP26-96SF	ALL STAINLESS STEEL FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 15 FT HEAD LOSS.	115	1	85 W	0.04
THERMAL EXPANSION TANK ET-1	AMTROL	THERM-X-TROL MODEL ST-5-C	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.0 GALLONS.	--	--	--	--



1 **ELECTRIC WATER HEATER DETAIL**
NOT TO SCALE.

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PROJECT NO.
24-046.00

SHEET TITLE
ROBE - PLUMBING SCHEDULES AND DETAILS

SHEET NO.
P32.50

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