MORE THAN ARCHITECTS

ADDENDUM

NO. 3

TO THE DRAWINGS AND THE PROJECT MANUAL

PROJECT NAME: Johnson High School 2025 Additions and Renovations

CLIENT NAME: Hays CISD

LOCATION: Buda, TX

PROJECT NUMBER: 1954-07-01

PROPOSAL DATE: 22 May, 2025

ADDENDUM DATE: 15 May, 2025

For additional information regarding this project, contact Gigi Morgan at 800.687.1229.

05.15.25

THIS ADDENDUM INCLUDES:

Civil Items	5 Pages
Sports Items	2 Pages
Structural Items	9 Pages
Plumbing Items	2 Pages
Mechanical Items	3 Pages
Electrical Items	7 Pages
Technology Items	1 Page

AND ALL ATTACHED REVISED SPECIFICATION & DRAWING REFERENCES IN THE ADDENDUM

Huckabee

Project Name: Johnson High School 2025 Additions and Renovations
Client: Hays CISD
Buda, TX
Project Number: 1954-07-01

CIVIL ITEMS FOR ADDENDUM NO. 3

NOTICE TO PROPOSERS:

A. This Addendum shall be considered part of the contract documents for the above-mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original contract documents, this Addendum shall govern and take precedence.
B. Proposers are hereby notified that they shall make any necessary adjustments in their estimate on account of this Addendum. It will be construed that each Proposer's proposal is submitted with full knowledge of all modifications and supplemental data specified therein. Acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject Proposer to disqualification.

REFERENCE IS MADE TO THE DRAWINGS AS NOTED:

DRAWINGS:

AD No 3, Civil Item 1: **To the Drawings, Sheet C4.01, "DIMENSION CONTROL PLAN (1 OF 2),"**

1. Modification of MAC footprint.

AD No 3, Civil Item 2: **To the Drawings, Sheet C6.01, "GRADING PLAN (1 OF 2),"**

1. Modification of MAC footprint.

AD No 3, Civil Item 3: **To the Drawings, Sheet C7.01, "UTILITY PLAN (1 OF 2),"**

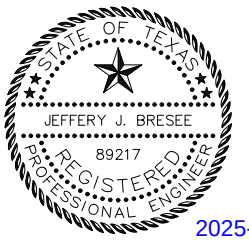
1. Addition of utility vault.

AD No 3, Civil Item 4: **To the Drawings, Sheet C8.01, "STORM PLAN (1 OF 2),"**

1. Addition of storm line to utility vault

END OF CIVIL ADDENDUM

Project Name: Johnson High School 2025 Additions
Client: Hays CISD
Buda, TX
Project Number: 1954-07-01



2025-05-14

F-7524

SPORTS ITEMS FOR ADDENDUM NO. 3

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 1, Sports Item 1: **To the Drawings, Sheet F1**

1) Tension netting behind football goal posts have been adjusted to be 100 ft long.
2) Added note 70FF to the sheet and labeled it at all four soccer field corners.
3) Added note 70GG to the sheet and labeled it at all four soccer field corners.

END OF SPORTS ADDENDUM

Huckabee

Project Name: Johnson High School 2025 Additions
Client: Hays CISD
Buda, TX
Project Number: 1954-07-01

STRUCTURAL ITEMS FOR ADDENDUM NO. 3

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 3, Struct Item 1: **To the Drawings, Sheet S1.2 "GENERAL NOTES",**
1) Added delegated design for grout retaining walls at Mudskipper system.

AD No 3, Struct Item 2: **To the Drawings, Sheet S2.1A1 "FOUNDATION PLAN – AREA A",**
1) Revised overall dimensions for building.

AD No 3, Struct Item 3: **To the Drawings, Sheet S2.1A2 "ROOF FRAMING PLAN – AREA A"**
1) Revised overall dimensions for building.

AD No 3, Struct Item 4: **To the Drawings, Sheet S2.1B1 "FOUNDATION PLAN – AREA B"**
1) Revised location of plumbing vault.

AD No 3, Struct Item 5: **To the Drawings, Sheet S2.1B2 "ROOF FRAMING PLAN – AREA B"**
1) Revised section callouts at canopies.

AD No 3, Struct Item 6: **To the Drawings, Sheet S3.2 "CONCRETE DETAILS"**
1) Revised plumbing vault detail.

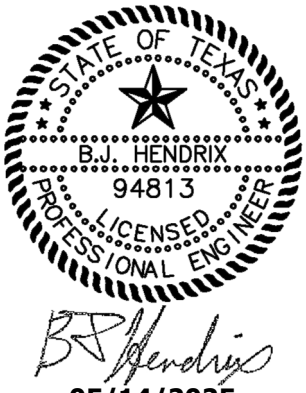
AD No 3, Struct Item 7: **To the Drawings, Sheet S4.10 "MASONRY WALL ELEVATIONS"**
1) Revised wall details.

AD No 3, Struct Item 8: **To the Drawings, Sheet S4.11 "MASONRY WALL ELEVATIONS"**
1) Revised wall details.

END OF STRUCTURAL ADDENDUM

Huckabee

Project Name: Johnson High School 2025 Additions
Client: Hays CISD
Buda, TX
Project Number: 1954-07-01



05/14/2025

PLUMBING ITEMS FOR ADDENDUM NO. 3

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 3, Plumb Item 1: **To the Drawings, Sheet P0.10, "Schedules - Plumbing,"**

1) Revised floor sink "FS2" to have "hinged" full grate.

END OF PLUMBING ADDENDUM

Huckabee

Project Name: Johnson High School 2025 Additions
Client: Hays CISD
Buda, TX
Project Number: 1954-07-01

MECHANICAL ITEMS FOR ADDENDUM NO. 3

05/14/2025

NOTICE TO PROPOSERS:

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 3, Mech Item 1: **To the Drawings, Sheet M0.10, "Notes and Legends - Mechanical,"**

1) Added accessories note "8" to RTU-B1 and RTU-B2 to interlock units with overhead door.

AD No 3, Mech Item 2: **To the Drawings, Sheet M2.12, "First Floor Plan - Area B - Mechanical,"**

2) Added spiral duct detail to sheet. Supply grilles to be set at 30° below horizontal.

END OF MECHANICAL ADDENDUM

Project Name: Johnson High School 2025 Additions
Client: Hays CISD
Buda, TX
Project Number: 1954-07-01

05/14/2025

ELECTRICAL ITEMS FOR ADDENDUM NO. 3

NOTICE TO PROPOSERS:

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 3, Elec Item 1: **To the Drawings, Sheet E0.01, "SCHEDULES, NOTES, AND LEGENDS - ELECTRICAL,"**
1) Added General Note II per owner request.

AD No 3, Elec Item 2: **To the Drawings, Sheet E0.10, "SCHEDULES - ELECTRICAL,"**
1) Added clarification regarding power pack installation location.

AD No 3, Elec Item 3: **To the Drawings, Sheet E0.12, "PANEL SCHEDULES - ELECTRICAL,"**
1) Revised Panel 'LMAC" for sports netting power.

AD No 3, Elec Item 4: **To the Drawings, Sheet E3.11, "FIRST FLOOR PLAN - AREA A - POWER,"**
1) Added power for sports netting equipment.

AD No 3, Elec Item 5: **To the Drawings, Sheet E3.12, "FIRST FLOOR PLAN - AREA B - POWER,"**
1) Expanded note regarding IDF room rough-in as shown per owner request.

AD No 3, Elec Item 6: **To the Drawings, Sheet ES1.00, "SITE PLAN - ELECTRICAL,"**
1) Expanded site circuiting note to include owner requirement for warning tape with all buried conduit..

END OF ELECTRICAL ADDENDUM

Huckabee

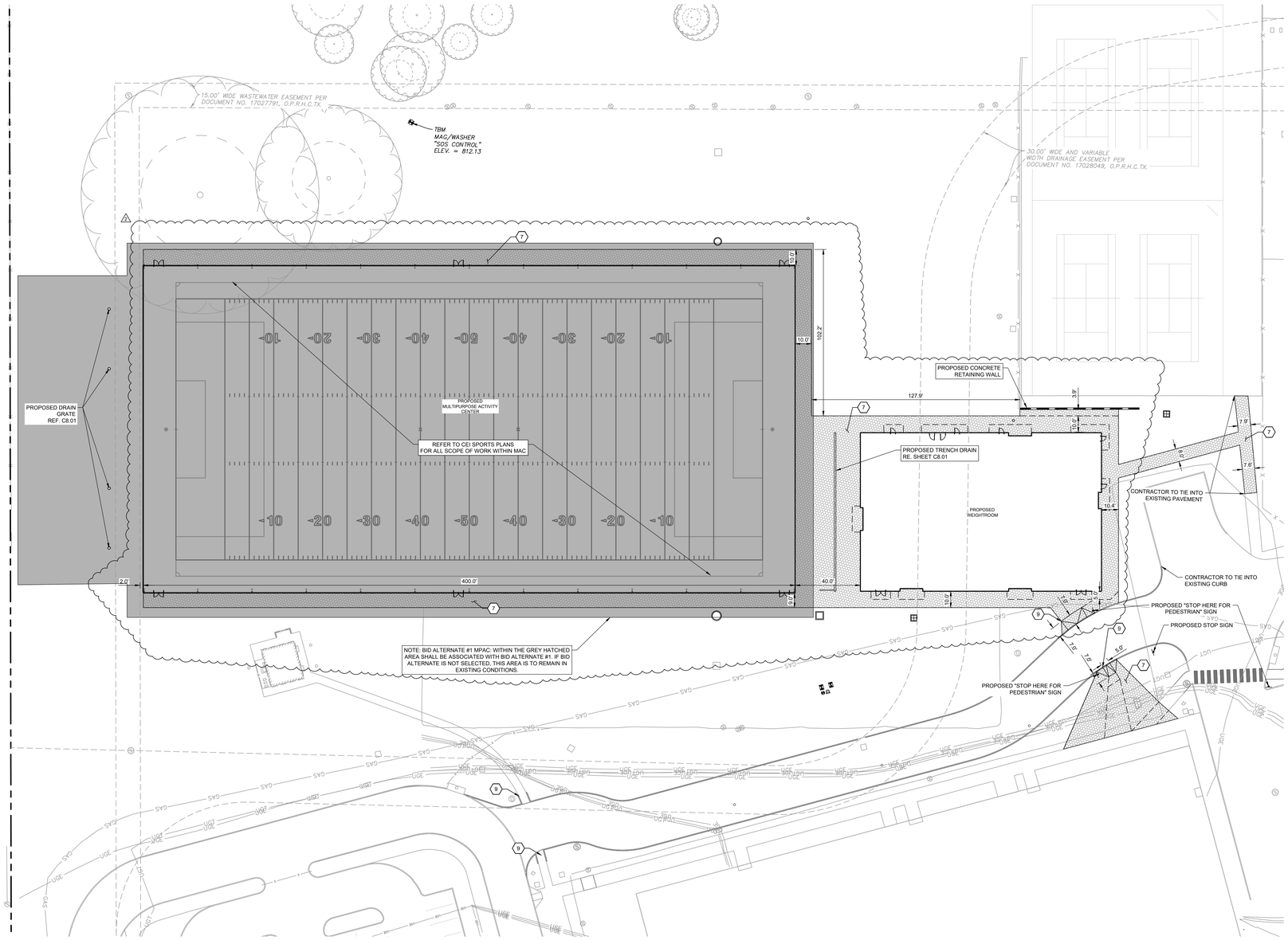
Technology & Security Narrative

Johnson HS 2025 Additions and Renovations Addendum #3 for Hays CISD

May 14, 2025

Special Space A/V Systems

The multipurpose activity center AV system will be modified to utilize Community R.5-96MAX speakers on the columns at middle of endzone, 17yds, 39yds, 39yds, 17yds, and middle of endzone in lieu of the shown QSC speakers. Wall box at field shall be OWB-X3-SM-GNG mounted at 36" AFF on center. Speakers shall all be mounted at 15'.

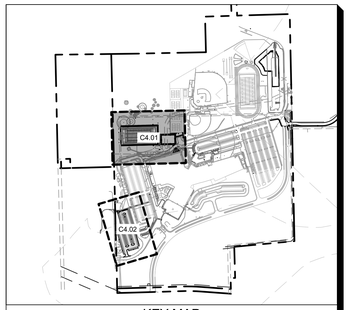


LEGEND

- PROPERTY BOUNDARY
- PROPOSED SAWCUT LINE
- FL — PROPOSED FIRE LANE
- PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL)
- (3) PROPOSED PARKING COUNT
- PROPOSED ACCESSIBLE PARKING SPACE
- PROPOSED BARRIER FREE RAMP
- (S) PROPOSED SANITARY SEWER MANHOLE
- CI PROPOSED CURB INLET
- PROPOSED FIRE HYDRANT
- PROPOSED POWER POLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- (1) PROPOSED 6" CONCRETE CURB (REF. DETAIL, C10.00)
- (2) 4" PAINTED STRIPE (TYP.)
- (3) 4" PAINTED STRIPING, 2' O.C. @ 45°
- (4) FIRE LANE STRIPING (REF. DETAIL, SHEET C5.00)
- (5) ACCESSIBLE PARKING SYMBOL (REF. DETAIL, SHEET C10.00)
- (6) ACCESSIBLE PARKING SIGN (REF. DETAIL, SHEET C10.00)
- (7) CONSTRUCT ON-SITE CONCRETE SIDEWALK (REF. DETAIL, SHEET C10.00)
- (8) CONCRETE WHEELSTOP (REF. DETAIL, SHEET C10.00)
- (9) CONSTRUCT ON-SITE BARRIER FREE RAMP (REF. DETAIL, SHEET C10.00)
- (10) PROPOSED 6' DOG KENNEL FENCE AND GATES
- (11) PROPOSED CONCRETE STAIRS (REF. DETAIL, SHEET C10.00)
- (12) PROPOSED BOLLARDS (REF. DETAIL, SHEET C10.00)
- (13) PROPOSED HANDRAILS (REF. DETAIL, SHEET C10.00)
- (14) PROPOSED FENCE AND GATES (REF. ARCH)
- (15) PROPOSED 6" CURB CUTS
- PROPOSED LIGHT-DUTY CONCRETE PAVEMENT (GENERAL PARKING) (REF. DETAIL, SHEET C10.00)
- PROPOSED MEDIUM-DUTY CONCRETE PAVEMENT (ACCESS DRIVES) (REF. DETAIL, SHEET C10.00)
- PROPOSED HEAVY-DUTY CONCRETE PAVEMENT (BUS LOOP) (REF. DETAIL, SHEET C10.00)
- PROPOSED ON-SITE (PRIVATE) SIDEWALK (REF. DETAIL, SHEET C10.00)
- PROPOSED PUBLIC SIDEWALK (REF. DETAIL, SHEET C10.00)

NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL CONSTRUCTION DRAWINGS FOR EXACT BUILDING DIMENSIONS. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR DIMENSIONS AND DETAIL OF HARDSCAPE.
3. ALL CURB RADII ARE 3 FEET UNLESS DIMENSIONED OTHERWISE.
4. BUILDING, MECHANICAL EQUIPMENT AND SIGNS ARE SHOWN HEREON FOR REFERENCE ONLY. REFER TO CONSTRUCTION PLANS OF THOSE ITEMS FOR LOCATIONS AND DIMENSIONS.
5. ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY RIGHT-OF-WAY AND EASEMENTS SHALL COMPLY WITH CITY OF BUDA STANDARDS. PRIOR APPROVAL TO USE ANY NON-STANDARD MATERIAL IS REQUIRED.
6. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL PAVING AND SOIL PREPARATION NOTES.
7. REFERENCE IRRIGATION AND MEP PLANS FOR CONDUIT SIZES AND LOCATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
8. EXPANSION JOINTS SHOULD BE USED WHEREVER THE PAVEMENT WILL ABUT A STRUCTURAL ELEMENT SUBJECT TO DIFFERENT MAGNITUDE OF MOVEMENT, E.G., LIGHT POLES, RETAINING WALLS, EXISTING PAVEMENT, STAIRWAYS, ENTRYWAY PIERS, BUILDING WALLS, OR MANHOLES.
9. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.



KEY MAP
N.T.S.

BENCHMARK LIST

TBM
MAG/WASHER
"SOS CONTROL"
ELEV. = 816.51

TBM
MAG/WASHER
"SOS CONTROL"
ELEV. = 813.61

TAS NOTE

GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, SLIP-RESISTANT, AND SHALL COMPLY WITH SECTION 302 OF THE TEXAS ACCESSIBILITY STANDARDS.

811 Know what's below. Call before you dig.

CAUTION!!
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

SITE PLAN APPROVAL SHEET___13___OF___46___
FILE NUMBER_____APPLICATION DATE___01/23/2025___
APPROVED BY COMMISSION ON____N/A____UNDER THE CITY OF BUDA UNIFIED DEVELOPMENT CODE,
EXPIRATION DATE _____CASE MANAGER_____

City Engineer, City of Buda
RELEASED FOR GENERAL COMPLIANCE:_____ZONING___AG___
Rev. 1_____Correction 1_____
Rev. 2_____Correction 2_____
Rev. 3_____Correction 3_____

Final plat must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF BUDA MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

Revision /	Date
ADDENDUM 01	05.08.25
ADDENDUM 03	05.15.25

Project:

JOHNSON HIGH SCHOOL
2025 ADDITIONS
FOR
HAYS C.I.S.D.
BUDA, TEXAS

Kimley»Horn
©2025 KIMLEY-HORN AND ASSOCIATES, INC.
TBPE FIRM NO. 928

STATE OF TEXAS
RICHARD J. UNDERWOOD
117843
REGISTERED PROFESSIONAL ENGINEER
05/15/2025

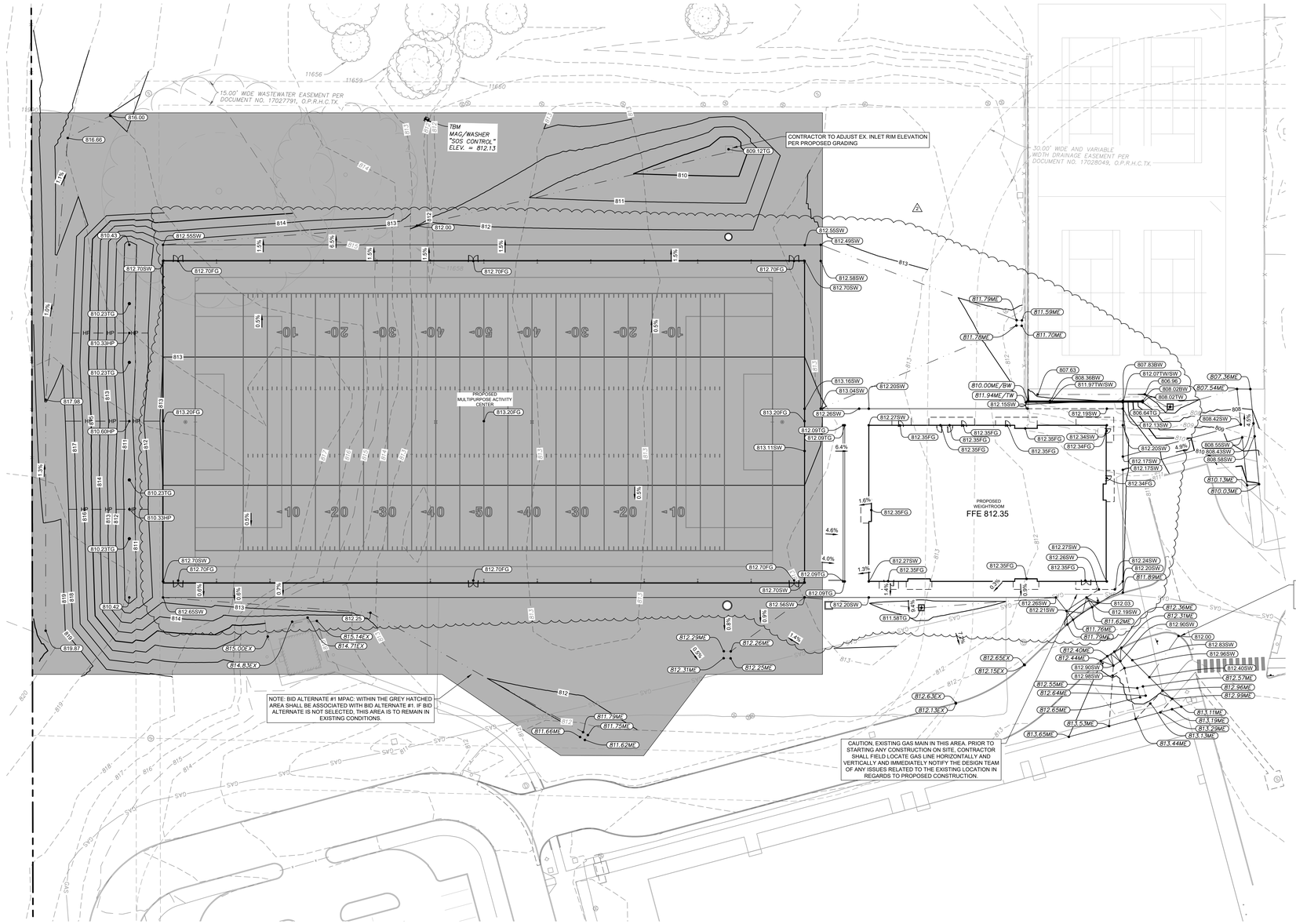
Huckabee
AUSTIN • DALLAS • FORT WORTH
HOUSTON • SAN ANTONIO • WACO
www.huckabee-inc.com
800.687.1229

DIMENSION CONTROL PLAN (1 OF 2)

PACKAGE	VOLUME

Job No.	Sheet No.
1954-07-01	ISSUE FOR BID
Drawn By:	C4.01
RAU	
Date:	
05/15/2025	

DESIGN PROGRESS REVIEW



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

XXX.XX	PROPOSED SPOT ELEVATION
SW	SIDEWALK
TS	TOP OF STEP
FG	FINISHED GRADE
TW	TOP OF WALL
BW	FINISHED GRADE AT BASE OF WALL
EW	END OF WALL
TC	TOP OF CURB
TG	TOP OF GRATE
EX	EXISTING SPOT ELEVATION
ME	MATCH EXISTING
910	PROPOSED CONTOURS
905	EXISTING CONTOURS
HP HP HP	PROPOSED HIGH POINT
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED SWALE
	PROPOSED RETAINING WALL (TRIANGLE INDICATES FACE OF WALL)
	PROPOSED EXPOSED SLAB (>8")
X.X%	DIRECTION OF INTENDED FLOW
	PROPOSED CURB RAMP
	PROPOSED RAMP WITH HANDRAIL (SEE NOTE 7)
	PROPOSED GRADE BREAK/ADA LANDING

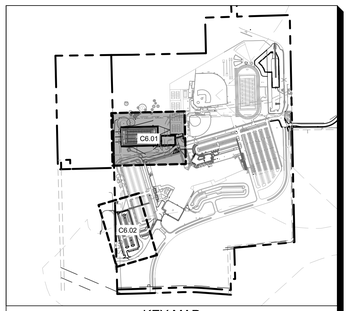
NOTES

1. ALL SPOT GRADES ARE TO TOP OF PAVEMENT (TP) OR TOP OF GRATE (TG), UNLESS OTHERWISE NOTED AS TC (TOP OF CURB). CONTRACTOR TO ADD 6" FOR TOP OF CURB AS NECESSARY.
2. NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
3. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES, LOADING ZONES AND SIDEWALK LANDINGS SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
4. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS UNLESS OTHERWISE NOTED. RUNNING SLOPE MAY EXCEED 5% IN PUBLIC R.O.W. IF EXISTING ROAD SLOPE EXCEEDS 5%.
5. GENERAL CONTRACTOR TO REFERENCE NOTE 1 REGARDING SPOT ELEVATIONS, COORDINATE WITH DIRT AND LANDSCAPE SUBCONTRACTORS REGARDING PROPOSED SOD AND HYDROMULCH LOCATIONS TO ENSURE ADEQUATE CUT FOR FUTURE VEGETATION.
6. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, READJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
7. PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.

Revision /	Date
1 ADDENDUM 01	05.08.25
3 ADDENDUM 03	05.15.25

Project:

JOHNSON HIGH SCHOOL
2025 ADDITIONS
FOR
HAYS C.I.S.D.
BUDA, TEXAS



KEY MAP
N.T.S.

Kimley»Horn
©2025 KIMLEY-HORN AND ASSOCIATES, INC.
TBPE FIRM NO. 928

STATE OF TEXAS
RICHARD J. UNDERWOOD
117843
REGISTERED
PROFESSIONAL
ENGINEER
05/15/2025

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HOUSTON • SAN ANTONIO • WACO
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SITE PLAN APPROVAL SHEET___17___OF___46___
FILE NUMBER_____APPLICATION DATE___01/23/2025___
APPROVED BY COMMISSION ON___N/A___UNDER THE CITY OF BUDA UNIFIED DEVELOPMENT CODE.
EXPIRATION DATE _____CASE MANAGER_____

_____
City Engineer, City of Buda
RELEASED FOR GENERAL COMPLIANCE:_____ZONING___AG___
Rev. 1_____Correction 1_____
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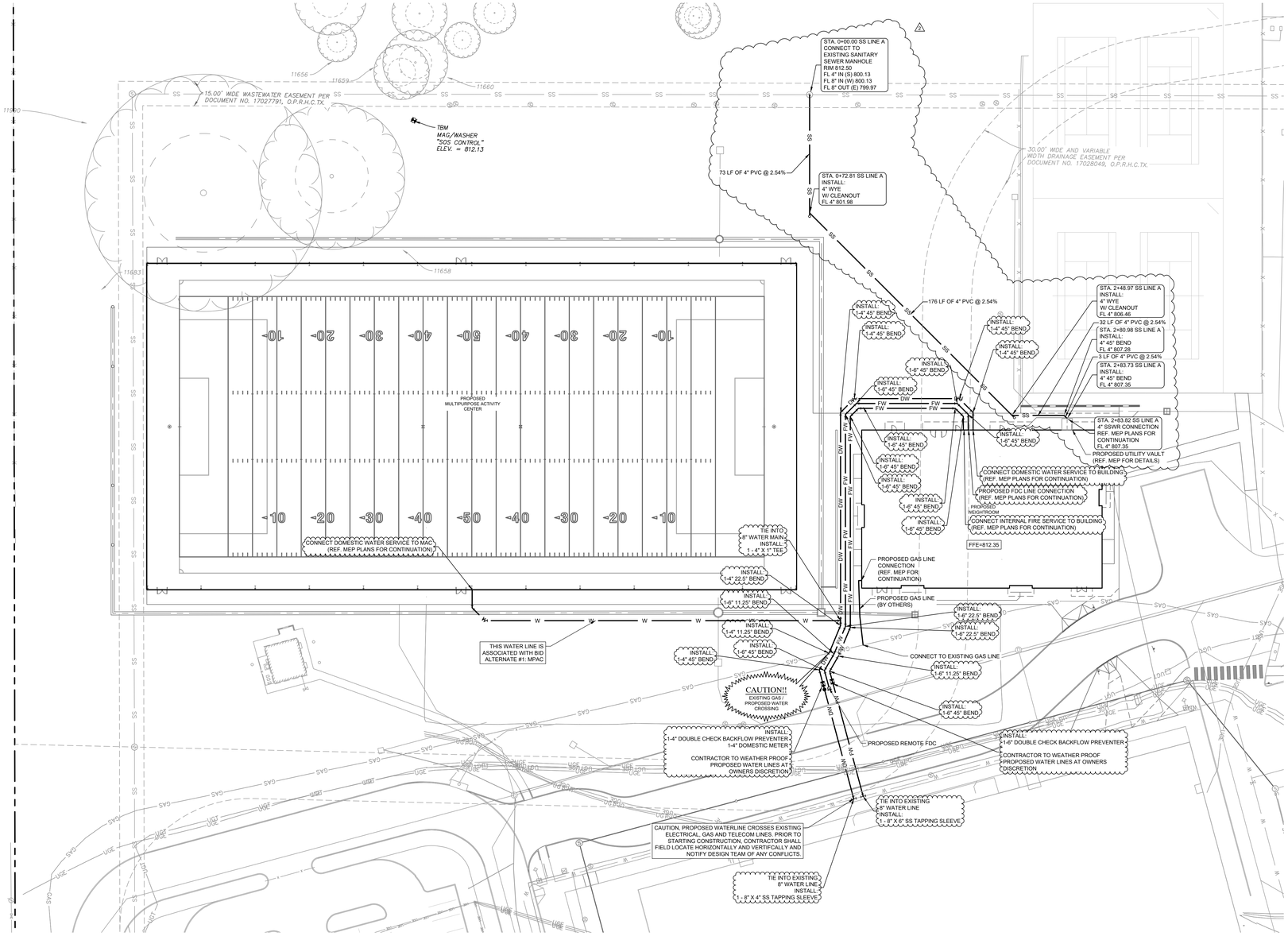
GRADING PLAN
(1 OF 2)

PACKAGE VOLUME

Job No. 1954-07-01
Drawn By: RAU
Date: 05/15/2025
Sheet No. ISSUE FOR BID C6.01

DESIGN PROGRESS REVIEW



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

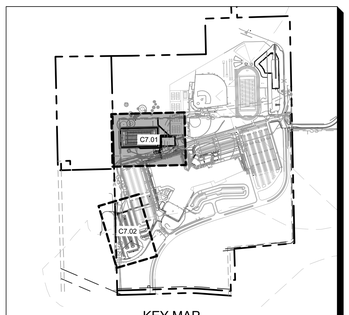
	PROPOSED SAWCUT LINE
SS	PROPOSED SANITARY SEWER LINE
W	PROPOSED WATER LINE
GAS	PROPOSED GAS LINE
UGE	PROPOSED UNDERGROUND ELECTRIC LINE
UGT	PROPOSED UNDERGROUND COMMUNICATION LINE
	PROPOSED STORM DRAIN LINE
SS	EXISTING SANITARY SEWER LINE
W	EXISTING WATER LINE
GAS	EXISTING GAS LINE
OHE	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING STORM DRAIN LINE
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED CLEANOUT
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER
	PROPOSED BACKFLOW PREVENTER
	PROPOSED VALVE
	PROPOSED FITTING
	PROPOSED GAS METER
	PROPOSED POWER POLE
E	PROPOSED TRANSFORMER
CI	PROPOSED CURB INLET
	PROPOSED STORM MANHOLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING CLEANOUT
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING VALVE
	EXISTING POWER POLE
	EXISTING STORM INLET

NOTES

1. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF FIELD CONDITIONS VARY.
2. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE.
3. UTILITY CONNECTIONS TERMINATE 5' FROM BUILDING ENVELOPE. SEE ARCHITECT AND MEP PLANS FOR CONTINUATION.
4. VALVES 12" AND UNDER WILL BE RESILIENT SEAT GATE VALVES (RSGV).
5. FIRE SPRINKLER LINE SHALL BE SIZED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR.
6. REFER TO CITY OF BUDA DESIGN GUIDELINES FOR ALL WATER METER AND FIRE HYDRANT DETAILS.
7. REFER TO CITY OF BUDA STANDARD CONSTRUCTION DETAILS FOR ALL SANITARY SEWER MANHOLES AND CLEANOUTS.
8. ALL FITTINGS SHALL BE OF DOMESTIC MANUFACTURE AND SHALL BE MECHANICALLY RESTRAINED.
9. CONTRACTOR SHALL REFER AND ADHERE TO ALL TCEQ DESIGN GUIDELINES (CHAPTER 217 AND 290) FOR ALL UTILITY CROSSINGS REQUIREMENTS.
10. CONTRACTOR TO CHECK THAT EXISTING WATER LINES MEET CITY OF BUDA MINIMUM COVER. IF NOT, CONTRACTOR TO INSTALL 45DEG VERTICAL BENDS WHERE NECESSARY TO MAINTAIN MINIMUM COVER.
11. REFERENCE WATER AND SANITARY SEWER NOTES ON SHEET C1.00 FOR ADDITIONAL REQUIREMENTS.
12. REFERENCE SHEET C10.02 WATER AND SEWER STANDARD DETAILS.

Revision /	Date
1 ADDENDUM 01	05.08.25
3 ADDENDUM 03	05.15.25

Project:
JOHNSON HIGH SCHOOL
2025 ADDITIONS
FOR
HAYS C.I.S.D.
BUDA, TEXAS



KEY MAP
N.T.S.

BENCHMARK LIST

TBM
MAG/WASHER
"SOS CONTROL"
ELEV. = 816.51

TBM
MAG/WASHER
"SOS CONTROL"
ELEV. = 813.61

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SITE PLAN APPROVAL SHEET___21___OF___46___
FILE NUMBER_____APPLICATION DATE___01/23/2025___
APPROVED BY COMMISSION ON_____N/A_____UNDER THE CITY OF BUDA UNIFIED DEVELOPMENT CODE.
EXPIRATION DATE_____CASE MANAGER_____

City Engineer, City of Buda
RELEASED FOR GENERAL COMPLIANCE:_____ZONING_____AG_____
Rev. 1_____Correction 1_____
Rev. 2_____Correction 2_____
Rev. 3_____Correction 3_____

Final plat must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

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Kimley»Horn

TBPE FIRM NO. 928

STATE OF TEXAS
RICHARD J. UNDERWOOD
117843
LICENSED PROFESSIONAL ENGINEER
05/15/2025

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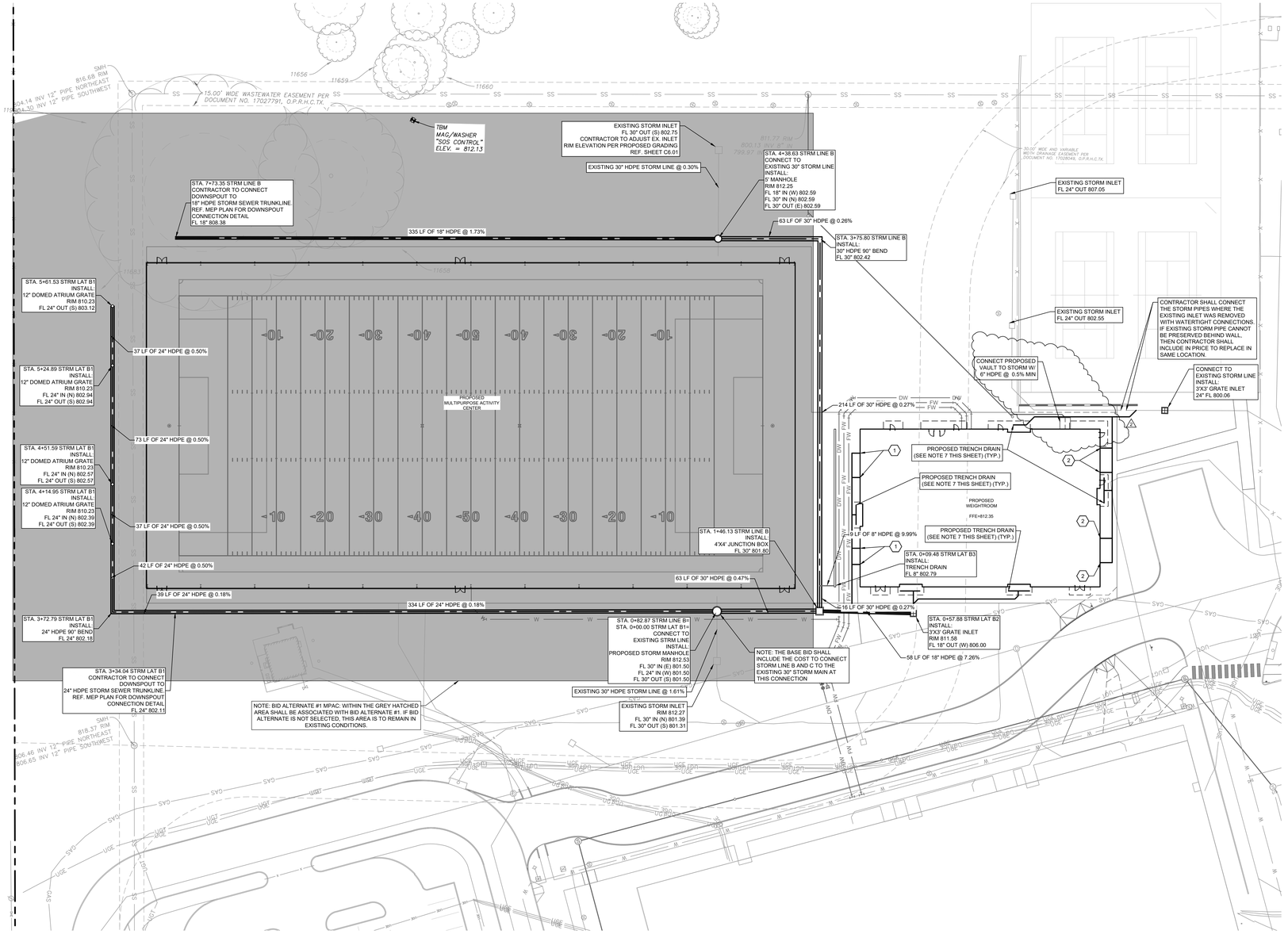
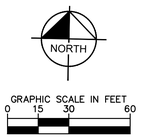
UTILITY PLAN
(1 OF 2)

PACKAGE	VOLUME
Job No. 1954-07-01	Sheet No. C7.01
Drawn By: RAU	ISSUE FOR BID
Date: 05/15/2025	DESIGN PROGRESS REVIEW





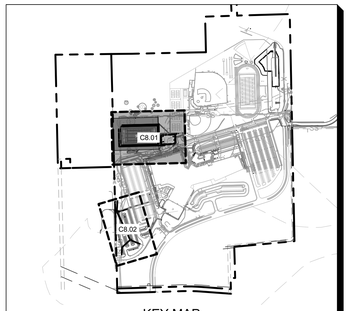
GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPOSED PROPERTY BOUNDARY
- EXISTING PROPERTY LINE
- PROPOSED EASEMENT
- EXISTING EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED FENCE
- OHE — PROPOSED OVERHEAD ELECTRIC
- FW — PROPOSED FIRE WATER LINE
- DW — PROPOSED DOMESTIC WATER LINE
- W — PROPOSED COMBINATION WATER LINE
- SS — PROPOSED SANITARY SEWER LINE
- SD — PROPOSED STORM DRAIN (<12")
- PROPOSED STORM DRAIN (>/=12")
- W — EXISTING WATERLINE
- SS — EXISTING SANITARY SEWER LINE
- G — EXISTING GAS LINE
- EXISTING EDGE OF ASPHALT
- OHE — EXISTING OVERHEAD ELECTRIC
- PROPOSED CONCRETE RIPRAP
- PROPOSED ROCK RIPRAP
- PROPOSED LIGHT POLE
- PROPOSED SEWER CLEANOUT
- PROPOSED SEWER MANHOLE
- CI GI — PROPOSED CURB INLET/GRATE INLET
- MH JB — PROPOSED MANHOLE/JUNCTION BOX
- PROPOSED HEADWALL
- PROPOSED GAS METER
- PROPOSED POWER POLE
- PROPOSED BACKFLOW PREVENTER
- PROPOSED FIRE HYDRANT
- PROPOSED DOMESTIC WATER LINE
- PROPOSED ELECTRIC TRANSFORMER
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING SEWER MANHOLE
- EXISTING POWER POLE
- EXISTING TREE
- EXISTING FIRE HYDRANT
- EXISTING STORM INLET
- 1 — CONTRACTOR TO CONNECT DOWNSPOUTS TO PROPOSED STORM LINE B2
- 2 — CONTRACTOR TO CONNECT DOWNSPOUTS TO EXISTING 24" HDPE

STORM NOTES

1. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE.
2. REFERENCE STORM SEWER NOTES ON SHEET C1.00 FOR PIPE MATERIAL REQUIREMENTS.
3. REFERENCE SHEET C10.01 FOR STORM SEWER DETAILS.
4. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF FIELD CONDITIONS VARY.
5. DRAIN BASINS TO BE NYLOPLAST OR APPROVED EQUAL.
6. CONTRACTOR TO FIELD VERIFY PRIOR TO THE START OF CONTRUCTION AND NOTIFY ENGINEER IF DIFFERS FROM PLAN
7. TRENCH DRAIN SHALL BE PLACED WITHIN CIVIL FLATWORK AND SHALL BE DISCONNECTED FROM STRUCTURAL SLAB. CONTRACTOR TO USE NDS 3" PRO SERIES OR APPROVED EQUAL AND TIE INTO NEAREST ADJACENT STORM LINE WITH 6" SCHEDULE 40 PVC PIPE
8. WHEN SAWCUTTING EXISTING PAVEMENT, CONTRACTOR SHALL ENSURE A 5' MINIMUM SPACING BETWEEN JOINTS. OTHERWISE, CONTRACTOR SHOULD REMOVE AND REPOUR UP TO THE NEAREST JOINT.



KEY MAP
N.T.S.

BENCHMARK LIST

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SITE PLAN APPROVAL SHEET___24___OF___46___
FILE NUMBER_____APPLICATION DATE___01/23/2025___
APPROVED BY COMMISSION ON____N/A____UNDER THE CITY OF BUDA UNIFIED DEVELOPMENT CODE.
EXPIRATION DATE_____CASE MANAGER_____

_____
City Engineer, City of Buda
RELEASED FOR GENERAL COMPLIANCE:_____ZONING____AG____
Rev. 1_____Correction 1_____
Rev. 2_____Correction 2_____
Rev. 3_____Correction 3_____

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Revision /	Date
ADDENDUM 01	05.08.25
ADDENDUM 03	05.15.25

Project:
JOHNSON HIGH SCHOOL
2025 ADDITIONS
FOR
HAYS C.I.S.D.
BUDA, TEXAS

Kimley»Horn
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TBPE FIRM NO. 928

STATE OF TEXAS
RICHARD J. UNDERWOOD
117843
REGISTERED PROFESSIONAL ENGINEER
05/15/2025

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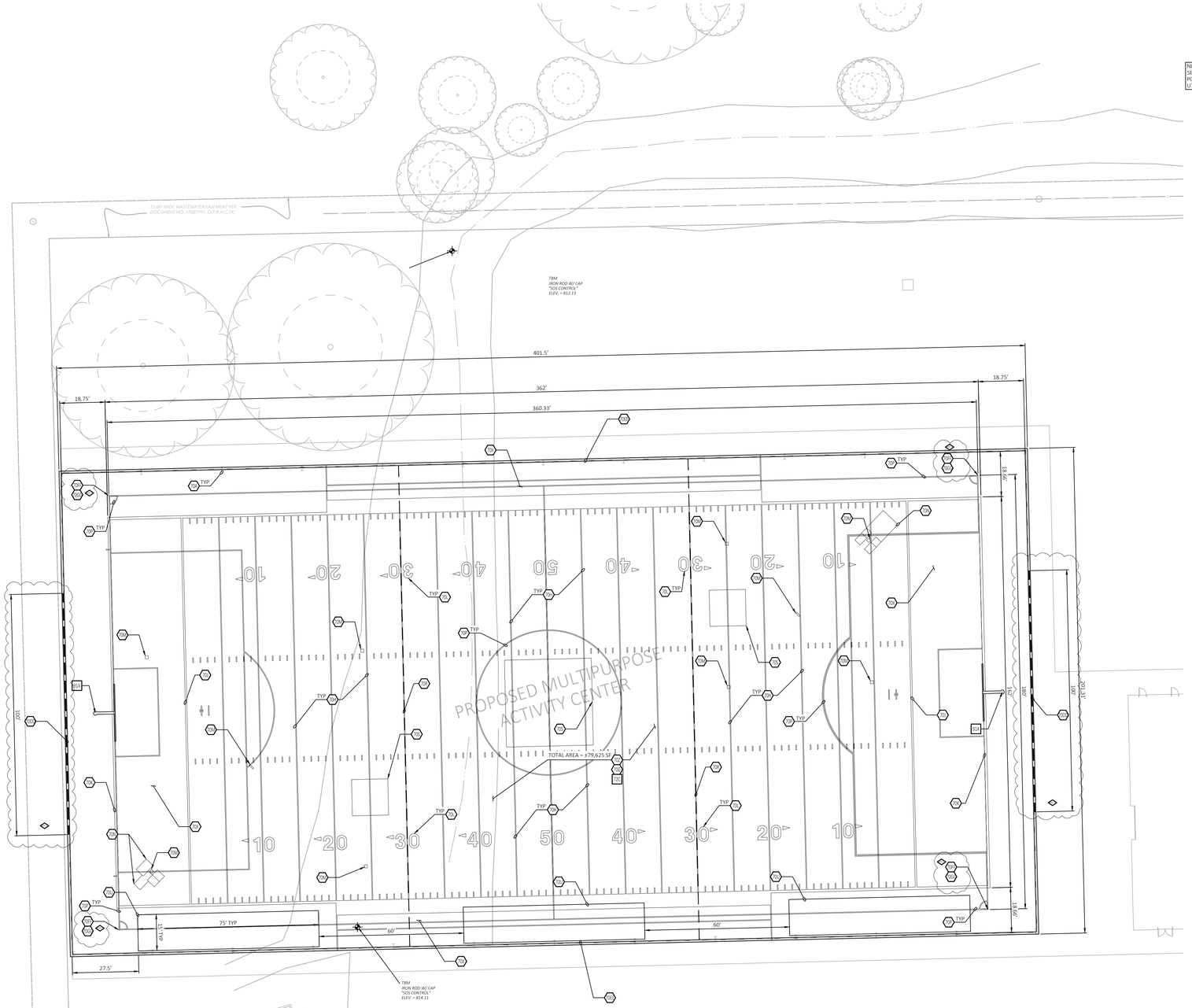
STORM PLAN (1 OF 2)

PACKAGE	VOLUME
Job No. 1954-07-01	Sheet No. ISSUE FOR BID C8.01
Drawn By: RAU	
Date: 05/15/2025	

DESIGN PROGRESS REVIEW



SITE BENCHMARK

TBM
IRON ROD W/ CAP
"SOS CONTROL"
ELEV. = 814.11

TBM
IRON ROD W/ CAP
"SOS CONTROL"
ELEV. = 812.13

NOTE:
SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PORCHES, RAMPS, VESTIBULE, SLOPED PAVING, TRUCK DOCKS, BUILDING UTILITY ENTRANCE LOCATIONS AND PRECISE BUILDING DIMENSIONS.

0 20' 30' 40'
SCALE IN FEET

Know what's below.
Call before you dig.

EXISTING LEGEND

- CLEANOUT
- FIRE HYDRANT
- LIGHT POLE
- SCOREBOARD
- TREE
- CHAINLINK FENCE LINE
- STORM DRAIN
- SANITARY SEWER
- WATER

GENERAL NOTES

A. CONTRACTOR SHALL RE-ESTABLISH DISTURBED GRASS AROUND FIELD WITH COMMON BERMUDA GRASS.

B. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS (SEE LANDSCAPE PLAN FOR SEED MIX AND PROPER APPLICATION RATE). ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

C. ALL DIMENSIONS ARE TAKEN FROM FACE OF CONCRETE AND FACE OF CHAIN LINK FENCE.

FIELD AND TURF NOTES

70A INSTALL PADS AT BUILDING COLUMNS AS NOTED ON A4.12 AND A1.1C1. ADD TO SPECIFICATION 32 8450.

70G INSTALL SHOCK PAD AS SPECIFIED BENEATH ENTIRE SYNTHETIC TURF AREA.

70H ALL FOOTBALL FIELD LINES SHALL BE 4 INCH WIDE AND WHITE IN COLOR PER COLOR RENDER.

70I END ZONE LINES SHALL BE 8 INCH WIDE AND WHITE IN COLOR PER COLOR RENDER.

70K BACK OF END ZONE SHALL BE 8 INCH WIDE AND WHITE IN COLOR PER COLOR RENDER.

70L FIELD NUMBERING AND ARROWS SHALL BE SOLID WHITE IN COLOR.

70M BASE PLATES TO BE WHITE INLAID SYNTHETIC TURF.

70N ALL BASEBALL/SOFTBALL FIELD LINES SHALL BE 4 INCH WIDE AND BLUE IN COLOR PER COLOR RENDER.

70P ALL SOCCER FIELD LINES SHALL BE 4 INCH WIDE AND GRAY IN COLOR PER COLOR RENDER.

70R INSTALL TENSION SPORTS NETTING TO BE ATTACHED TO FRAMING OF STEEL STRUCTURE PER SPECIFICATIONS.

70S CONTRACTOR PROVIDE ALLOWANCE FOR FIELD CUSTOMIZATION.

70T INSTALL STANDARD SOCCER GOAL.

70U INSTALL TENSION BATTING CAGE NETTING AS SPECIFIED.

70X INSTALL GREEN SYNTHETIC TURF SYSTEM.

70Z INSTALL ALTERNATING GREEN SYNTHETIC TURF SYSTEM.

70DD INSTALL SPORTS NETTING PER SPECIFICATIONS.

70EE PROPOSED SPORT FIELD COVER, TO BE CONSTRUCTED BY OTHERS AND SHOWN ON THIS PLAN FOR REFERENCE. REFER TO ARCHITECTURAL PLANS FOR FINAL PLACEMENT AND REQUIREMENTS.

70FF INSTALL SOCCER FLAGS AT ALL CORNERS OF FIELD.

70GG CONTRACTOR TO PROVIDE KWIK GOAL PREIMER WEIGHTED MODEL SOCCER FLAG, OR APPROVED EQUAL

FIELD AND TURF DETAIL

72C FOOTBALL FIELD ALTERNATING GREEN

91A GOAL POST WITH PAD INSTALLATION

Revision /	Date:
100% CD	02-26-2025
ADD-1	05-07-2025
ADD-3	05-15-2025

Project:

JOHNSON HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
BUDA, TX

JEFFERY J. BRESEE
TX 86217
2025-05-14
F-7524

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SURFACE PLAN
- ALTERNATE 1

Job No.	Sheet No.
34208	100% CD
Drawn By: MDT	F1
Date: 5/5/2025	

PROJECT RELEASE TYPE

2025-05-15 ADDENDUM-3

5/13/2025 8:11 AM
DRAWING LOCATION - P:\34000\34208.00\DRAWINGS\DESIGN\WORKING\34208-SP.DWG -- SAVED BY - RMENDA

GENERAL NOTES

SECTION 4 - STRUCTURAL MASONRY

SECTION 4.1- GENERAL
4.1.1 See Architectural Drawings and Specifications for details and dimensions of masonry work.

4.1.2 Grout lifts at reinforced masonry walls shall be accomplished in accordance with TMS 402/602.

SECTION 4.2- STRUCTURAL PROPERTIES
4.2.1 Required compressive strength of structural assembly = 2000 psi

4.2.2 Load-bearing Concrete Masonry Units: ASTM C90 Normal-weight
Required net area compressive strength = 2000 psi

4.2.3 Mortar: ASTM C270 Type S

4.2.4 Grout: ASTM C476
Required 28-day compressive strength of grout 2000 psi

SECTION 4.3- REINFORCING

JOINT REINFORCEMENT
4.3.1 Horizontal joint reinforcing shall be "Ladder Type" 9 gage welded wires spaced 16 inches on center vertically.

4.3.2 Provide prefabricated "L" and "T" shaped sections at wall intersections.

4.3.3 Lap horizontal wires at least 9" at splices.

BAR REINFORCEMENT
4.3.4 Reinforcing bars shall conform to ASTM A615 Grade 60.

4.3.5 Bar reinforcing shall be lapped at splices per schedule in typical details. Stagger splices in adjacent horizontal bars at least 4'-0".

4.3.6 Vertical reinforcing in cells to be grouted shall be placed using fabricated bar positioners to maintain location within cell.

4.3.7 Grout solid cells below adjacent grade or finish floor elevation and cells with vertical or horizontal bar reinforcement.

STRUCTURAL WALLS
4.3.8 Unless shown otherwise on plans or details, reinforcing for load-bearing CMU walls shown in the structural drawings shall be as follows:

Wall Type	Wall Thickness	Vert Reinf	Dowels
W1	12 inches	2 #5 @ 24 max	2 #5(0-10/4-0) @ 24 max

Notes:
a) Structural Walls are to be W1 type unless otherwise noted.
b) Align and lap dowels with vertical wall reinforcing.
c) At wall openings, see wall opening reinforcing schedule in typical details for reinforcing of jambs and lintels.

NON-STRUCTURAL WALLS
4.3.9 Unless shown otherwise on plans or details, reinforcing for CMU walls not shown in the structural drawings shall be as follows:

Wall Thickness	Vert Reinf	Dowels
8 inches	1 #5 @ 32 max	1 #5(0-10/4-0) @ 32 max
12 inches	2 #5 @ 32 max	2 #5(0-10/4-0) @ 32 max

Notes:
a) Align and lap dowels with vertical wall reinforcing.
b) At wall openings, see wall opening reinforcing schedule in typical details for reinforcing of jambs and lintels.
c) Post-installed dowels are acceptable at non-structural CMU. Drill & embed dowels 9 bar diameters minimum with adhesive.

4.3.10 Grout and reinforce the first cell at corners, ends of walls, and each side of a control joint with 1 vertical bar for 6- or 8-inch CMU walls or 2 vertical bars for 12-inch CMU walls. Jambs adjacent to openings in structural masonry are to be grouted and reinforced per applicable details.

4.3.11 Install single course depth bond beam with at least one horizontal bar at the top of CMU walls.

SECTION 4.4- CONTROL JOINTS
4.4.1 Do not locate vertical control joints in CMU walls through an opening or within the jamb or lintel bearing adjacent to an opening. Control joints must be vertical from the wall foundation to the top of wall.

4.4.2 Maximum spacing of control joints not to exceed 25 feet.

4.4.3 See plans for control joint locations in load-bearing CMU walls.

SECTION 4.5- REQUIRED SUBMITTALS
4.5.1 Prior to construction, contractor is to submit CMU reinforcing layout and fabrication drawings for review. Submittal shall contain the following information:
a) CMU wall thickness
b) Material properties
c) Plans and wall elevations that show wall reinforcing details, openings, beam pockets, and lintels
d) Control joint locations

SECTION 5 - STRUCTURAL STEEL

SECTION 5.1- STRUCTURAL FRAME

5.1.1 Structural Steel Properties:

High Strength Steel Use for W Shapes and WT's	ASTM A992 Grade 50
Structural Steel (Normal Strength) Use for Angles, Channels, and Plates, UNO	ASTM A36
Steel Pipes	ASTM A53, Grade B
Hollow Structural Sections (HSS)	ASTM A500, Grade C
Erection Bolts	ASTM A307
High Strength Bolts	ASTM F3125, A325N UNO
Anchor Rods	ASTM F1554 Gr. 36 UNO
Headed Stud Anchors	ASTM A29 Gr. 1010-1020, Type B

5.1.2 Continuity Plates (Full Depth column stiffeners aligned with beam flanges, or Full Depth beam stiffeners aligned with column flanges) shall match the steel grade of the base member.

WELDING
5.1.3 Unless otherwise noted, angles, plates, rods, and miscellaneous framing shall be welded at contact joints and supports. Weld sizes shall conform to AWS D1.1 minimums, except where noted otherwise.

5.1.4 Where fillet weld sizes are not indicated on weld symbols, fillet size shall be 1/16th inch smaller than thickness of thinner of materials being joined.

5.1.5 Complete penetration welds are indicated by notation "CJP" on weld symbols, partial penetration by "PJP".

STRUCTURAL BOLTS
5.1.6 Bolts indicated on details shall be 3/4 inch diameter, unless noted otherwise.

5.1.7 Bolts shall be tightened by the AISC "Snug Tight" method unless noted otherwise.

MISCELLANEOUS
5.1.8 Edge angles at perimeters of floors and roofs shall be continuous and spliced per typical details.

5.1.9 Steel members shown to be curved shall be rolled in a manner that will not cause distortion or buckling. Should alterations to the member size, such as a thicker flange or web, be required to ensure this outcome, the additional steel shall be provided at no additional cost to the contract.
5.1.10 Unless noted otherwise, steel members shall be hot dip galvanized at exterior conditions. Field welds to be repaired in accordance with ASTM
A780.

COMPOSITE STEEL BEAMS
5.1.11 Beams shall have shear studs spaced at 2 feet maximum on center, whether shown or not.

5.1.12 Composite steel beams do not require shoring during placement of concrete slab, unless noted otherwise.

SHEAR STUDS
5.1.13 Shear studs shall be fusion-welded, headed studs of high strength steel.

5.1.14 Unless noted otherwise, studs shall have a shank diameter of 3/4-inch. See details for length of studs measured after welding.

SECTION 5.2- STEEL JOISTS AND JOIST GIRDERS

5.2.1 Joist Legend:
22K6 - SJI K-SERIES JOIST.
22KCS - SJI KCS-SERIES JOIST.
24LH8 - SJI LH-SERIES JOIST.
22KSP - SPECIAL DESIGN FOR SPECIFIED LOADING.

5.2.2 Unless noted or detailed otherwise, typical seat depths shall be:
K or KCS Series - 2-1/2 inches
LH or DLH Series - 5 inches
G Series - 7-1/2 inches

5.2.3 Joists and Joist Girders shall be designed for concentrated dead or live load in addition to required uniform dead and live loads, as follows at top and bottom chords:
Joists: 250 lb. placed at any panel point.
Joist Girders: 500 lb. placed at any panel point.

5.2.4 Design joists supporting mechanical units to support a concentrated load equal to 60% of the weight shown on plan at any joist panel point. Design joists supporting more than one mechanical unit to support a concentrated load equal to 60% of the sum of the weights shown on plan at any joist panel point. These concentrated loads are in addition to the loads noted above.

5.2.5 See loading diagram for net uplift requirements due to wind load.

5.2.6 Joist loads shown on drawings are nominal Loads per building code and have not been multiplied by ASD (Allowable) nor LRFD (Strength) load multipliers unless specifically noted otherwise.

5.2.7 Deflection shall not exceed L/240 for total load or L/360 for short term loads (live, snow, or wind).

SECTION 5.5- STEEL ROOF DECK

5.5.1 Steel Roof Deck Schedule:
a. Deck shall be Type RA unless shown otherwise on plans.
b. Typical deck yield strength: Fy = 40 ksi minimum

Deck Type	Deck Mark	SDI Gage	Deck Profile	Min. Ip Height	Min. In	Min. Sp	Min. Sn	Deck Finish
				in4	in4	in4	in3	
RA	20	WR	1.5"	.177	.213	.212	.223	G-60

5.5.2 Steel Roof Deck Connection Schedule:
a. Shear Capacity listed is allowable (0.6W, 0.7E) and is considered acting in combination with wind uplift pressures.
b. W/N = sheet width/no. connections each sheet.
c. Deck Connections are Mark I, except where noted otherwise on Plans.
d. In addition to the deck connections indicated in the connection schedule, the deck shall be connected at each flute at each support within the first 14 feet from the building perimeter.

Conn Type	Conn @ Supports (W/N)	Parallel Edges (In)	Sidelap Conn No./Span	Reqd Shear Capacity (PLF)
I	36/7	6	4	457 @ 6'-0" span

SECTION 6 - DEFERRED APPROVALS

6.1.1 The following items require deferred approval from the enforcement agency. See specifications for additional design services to be provided by Contractor.
1. Cold formed metal framing
2. Stairs and railings
3. Steel connection design
4. Pre-engineered Metal Building (PEMB)
5. Underslab grout retaining walls for Mudskipper system.

6.1.2 The design of the above items is by the Contractor/Manufacturer. Contractor/Manufacturer must prepare all necessary calculations and drawings per the Building Code of Jurisdiction under the supervision of a Structural Engineer, registered in the state in which the project is located, and obtain all necessary plan check approvals from the enforcement agency.

6.1.3 Fabrication and installation of the above items shall not be started until detailed plans, specifications and engineering calculations have been accepted and signed by the Architect or Structural Engineer of Record and the signature of the Architect or Professional Engineer who has been delegated responsibility covering the work shown on a particular plan or specification, and approved by the enforcement agency.

6.1.4 Submittal documents for deferred items shall be submitted to the registered design professional in responsible charge, who shall review them and forward them to the building official with a notation indicating that the deferred documents have been reviewed and that they have been found to be in general conformance with the design of the building. The deferred items shall NOT be installed until their design and submittal documents have been approved by the building official.

SECTION 7 - METAL BUILDING SYSTEMS

SECTION 7.1- GENERAL DESIGN REQUIREMENTS

7.1.1 Superstructure is metal building system designed and fabricated by supplier and associated structural engineer.

7.1.2 Design and fabricate metal building in accordance with the contract documents, AISC, MBMA, AWS, and AISI specifications. Abide by AWS dimensional tolerances for workmanship and AISC fabrication tolerances for hot-rolled steel.

7.1.3 Submit documentation of participation in AISC Quality Certification Program and be designated as an AISC Certified Plant, Category BU, or accreditation with IAS AC 472.

7.1.4 Design metal building to support equipment shown or specified in contract documents. Provide additional girts or purlins as required for attachment of equipment.

7.1.5 Support cladding and openings from metal building system. Coordinate with Architectural documents for finishes and openings.

7.1.6 Limit maximum drift and deflection per criteria below:

Structure Risk Category	III
Ultimate design wind speed, Vult	115 mph
Allowable design wind speed, Vasd	89 mph
Serviceability wind speed	72 mph
Exposure Classification	C
Building Frame Drift	H/300
Wall Girts	L/240
Roof Purlins	L/240

7.1.7 Locate columns, rigid frames, portal frames, and bracing as shown in contract documents.

SECTION 7.2- FOUNDATION INTERACTION

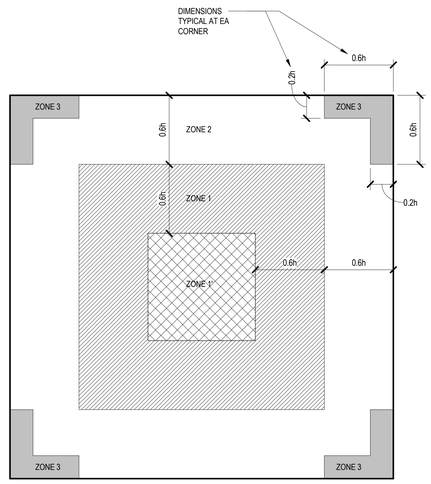
7.2.1 Foundation elements shown in structural drawings are based on assumed configurations and loading and are subject to change. Submit signed and sealed drawings and calculations (including foundation reactions) for metal building system to Architect for review of foundation design prior to start of construction.

7.2.2 Basis of foundation design is a pinned connection at base of frame columns with no moments transferred to foundation.

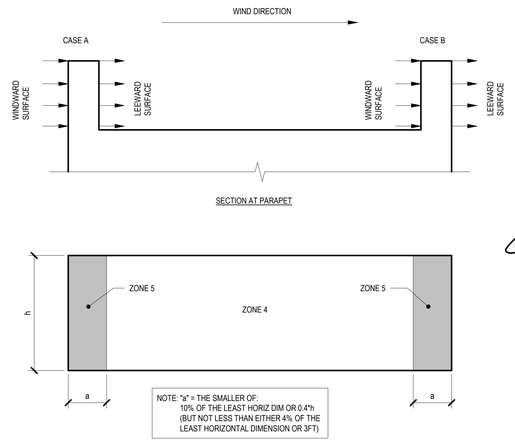
7.2.3 Anchor rod designs for the frame reactions furnished by the metal building designer are a delegated design by a professional engineer. Submit anchor rod design including size, grade, configuration, embedment into concrete, and additional required anchorage reinforcement and supporting calculations for review prior to metal building fabrication.

COMPONENTS AND CLADDING WIND PRESSURES															
ZONE	DESCRIPTION	POSITIVE PRESSURE (PSF)						NEGATIVE PRESSURE (PSF)						PARAPET PRESSURE (PSF)	
		EFFECTIVE AREA (SQ FT)						EFFECTIVE AREA (SQ FT)						10 SQ FT EFFECTIVE AREA	
		10	20	50	100	200	500	10	20	50	100	200	500	POSITIVE	NEGATIVE
1'	ROOF INTERIOR	16	16	16	16	16	16	-28	-28	-28	-24	-19		N/A	N/A
1	ROOF MIDDLE	16	16	16	16	16	16	-48	-46	-41	-38	-35	-31	N/A	N/A
2	ROOF EDGE	16	16	16	16	16	16	-64	-60	-55	-51	-46	-41	N/A	
3	ROOF CORNER	16	16	16	16	16	16	-88	-79	-68	-60	-52	-41	N/A	
4	WALL INTERIOR	28	27	25	24	23	21	-30	-29	-27	-26	-25	-23	104	-66
5	WALL EDGE	28	27	25	24	23	21	-37	-35	-32	-29	-27	-23	104	-74

NOTES:
1. PRESSURES ARE BASED ON THE ULTIMATE DESIGN WIND SPEED, Vult, AT A MEAN ROOF HEIGHT h = 20 ft
2. PRESSURES INCLUDE A DIRECTIONALITY FACTOR, Kd, OF 0.85 AND AN ELEVATION FACTOR, Ke, OF 1.0
3. LOADS INDICATED ABOVE ARE ULTIMATE WIND LOADS (1.0W) FOR USE IN APPLICABLE WIND LOAD COMBINATIONS CONSIDERING GRAVITY EFFECTS AS REQUIRED PER ASCE 7-16 SECTION 2.3
4. WIND LOADS ACT ON EACH OUTSIDE FACE OF THE BUILDING. DO NOT ASSUME SHIELDING FROM ADJACENT STRUCTURES. POSITIVE AND NEGATIVE VALUES INDICATE PRESSURES ACTING TOWARD AND AWAY FROM SURFACES, RESPECTIVELY.
5. SEE ADJACENT DIAGRAMS FOR LOCATIONS OF ROOF AND WALL ZONES.
6. PARAPET DESIGN PRESSURES: CONSIDER BOTH CASES BELOW:
CASE A: POSITIVE WALL PRESSURE APPLIED TO WINDWARD SURFACE + NEGATIVE ADJACENT EDGE OR CORNER ZONE ROOF PRESSURE APPLIED TO LEEWARD SURFACE
CASE B: POSITIVE WALL PRESSURE APPLIED TO WINDWARD SURFACE + NEGATIVE WALL PRESSURE APPLIED TO LEEWARD SURFACE
7. WHERE PARAPET HEIGHT IS EQUAL TO OR GREATER THAN 3' - 0", NEGATIVE ROOF ZONE 3 PRESSURES EQUAL THOSE FOR ZONE 2, AND POSITIVE ROOF ZONES 2 AND 3 PRESSURES EQUAL THOSE FOR POSITIVE WALL ZONES 4 AND 5, RESPECTIVELY.
8. JOIST MANUFACTURER: DESIGN ROOF MEMBERS TO RESIST NET UPLIFT WIND PRESSURE USING THE FOLLOWING ASD FORMULA: 0.6D - 0.6W, WHERE D = 11 PSF AND W = TABULATED VALUES.



ROOF PLAN



WALL ELEVATION

1 COMPONENTS & CLADDING WIND PRESSURES - ASCE 7-16 C&C TABLE

1/8" = 1'-0"

Revision / Date
1 05/15/25 ADDENDUM 03

Project:
JOHNSON HIGH SCHOOL
2025 ADDITIONS
FOR
HAYS CISD
BUDA, TX

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GENERAL NOTES

PACKAGE	VOLUME
Job No. 1954-07-01	Sheet No. ISSUE FOR BID S1.2
Drawn By: LAFP	
Date: 04/22/2025	

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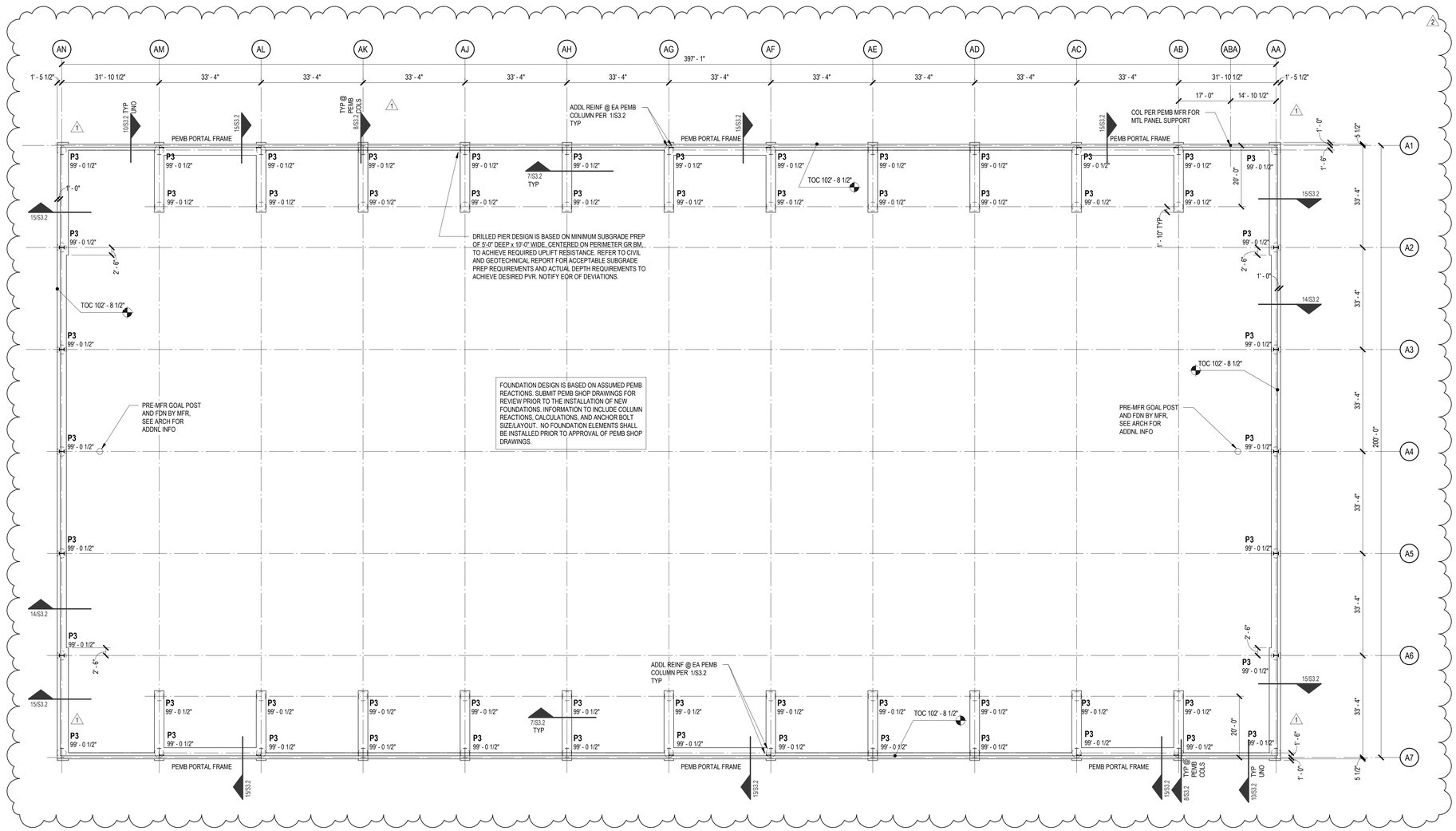


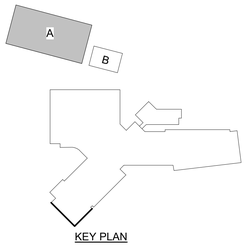
1 FOUNDATION PLAN - AREA A

1/16" = 1'-0"

NORTH

FOUNDATION PLAN NOTES

1. SEE PLAN FOR FINISH FLOOR ELEVATION (RELATIVE TO DATUM 100'-0").
2. TOP OF PIER ELEVATION RELATIVE TO DATUM 100'-0".
3. SHEET INDEX:
   - GENERAL NOTES -S1.1
   - PIER SCHEDULE -S3.1
   - CONCRETE DETAILS -S3 SERIES



KEY PLAN

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1	05/08/25 ADDENDUM 01
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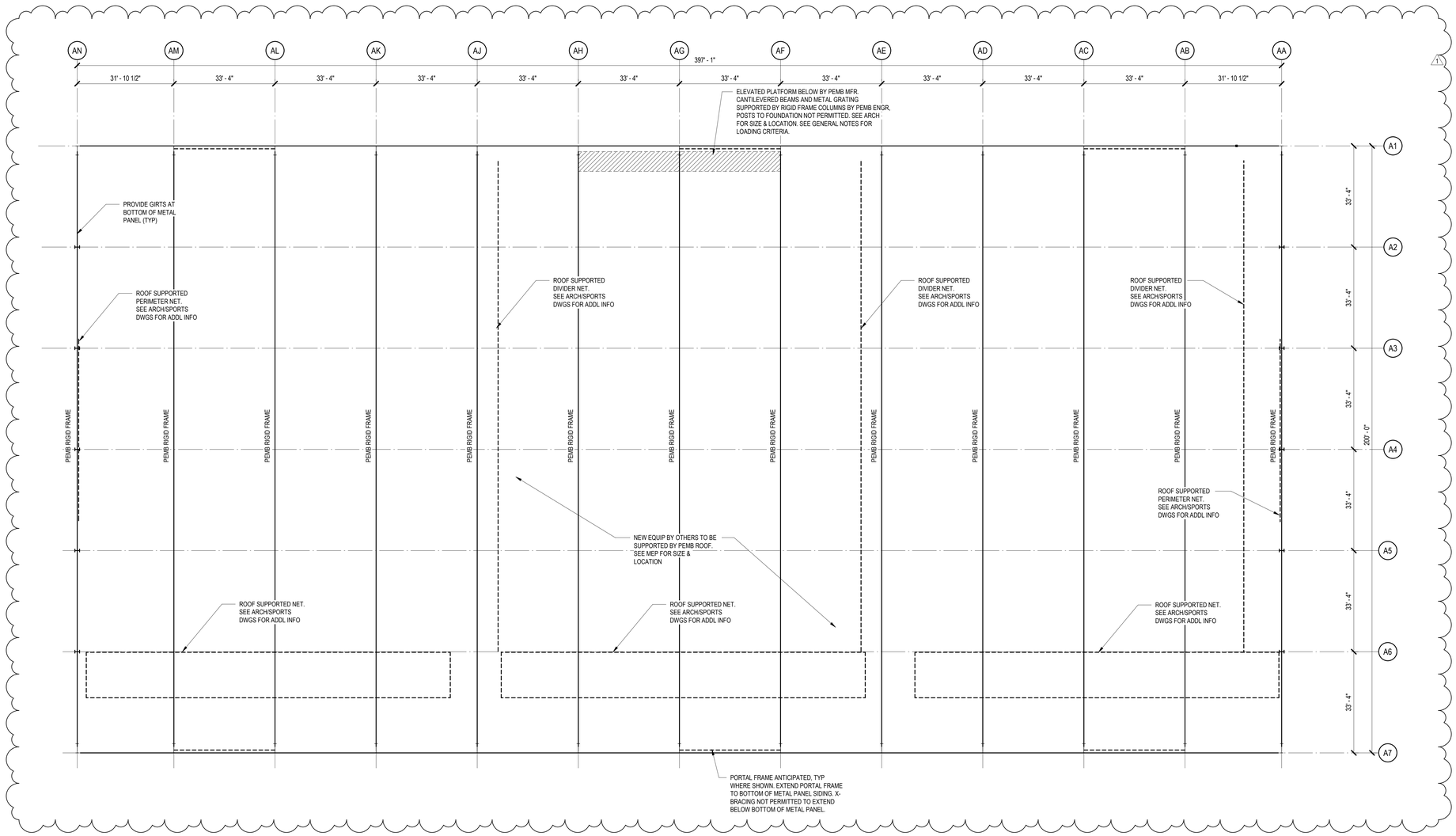
FOUNDATION PLAN - AREA A

PACKAGE	VOLUME
Job No. 1954-07-01	Sheet No. ISSUE FOR BID S2.1A1
Drawn By: LAFP	
Date: 04/22/2025	



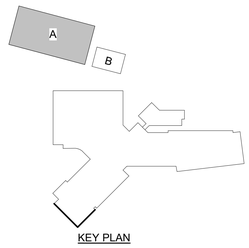
1 ROOF FRAMING PLAN - AREA A

1/16" = 1'-0"

NORTH

PEMB PLAN NOTES

1. PEMB SUPPLIER SHALL BE RESPONSIBLE FOR THE ENTIRE DESIGN OF THE STEEL SUPERSTRUCTURE INCLUDING FLOORS ABOVE GRADE, ROOFING SUPPORT, FASCIAS, FACADE SUPPORT, ANCHOR BOLT LAYOUT & DESIGN, TEMPORARY BRACING, LATERAL ANALYSIS AND RELATED WORK.
2. REFER TO INCLUDED STRUCTURAL NARRATIVE FOR ADDITIONAL INFORMATION REGARDING PEMB DESIGN CRITERIA.



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ROOF FRAMING PLAN - AREA A

PACKAGE	VOLUME
Job No. 1954-07-01	Sheet No. ISSUE FOR BID S2.1A2
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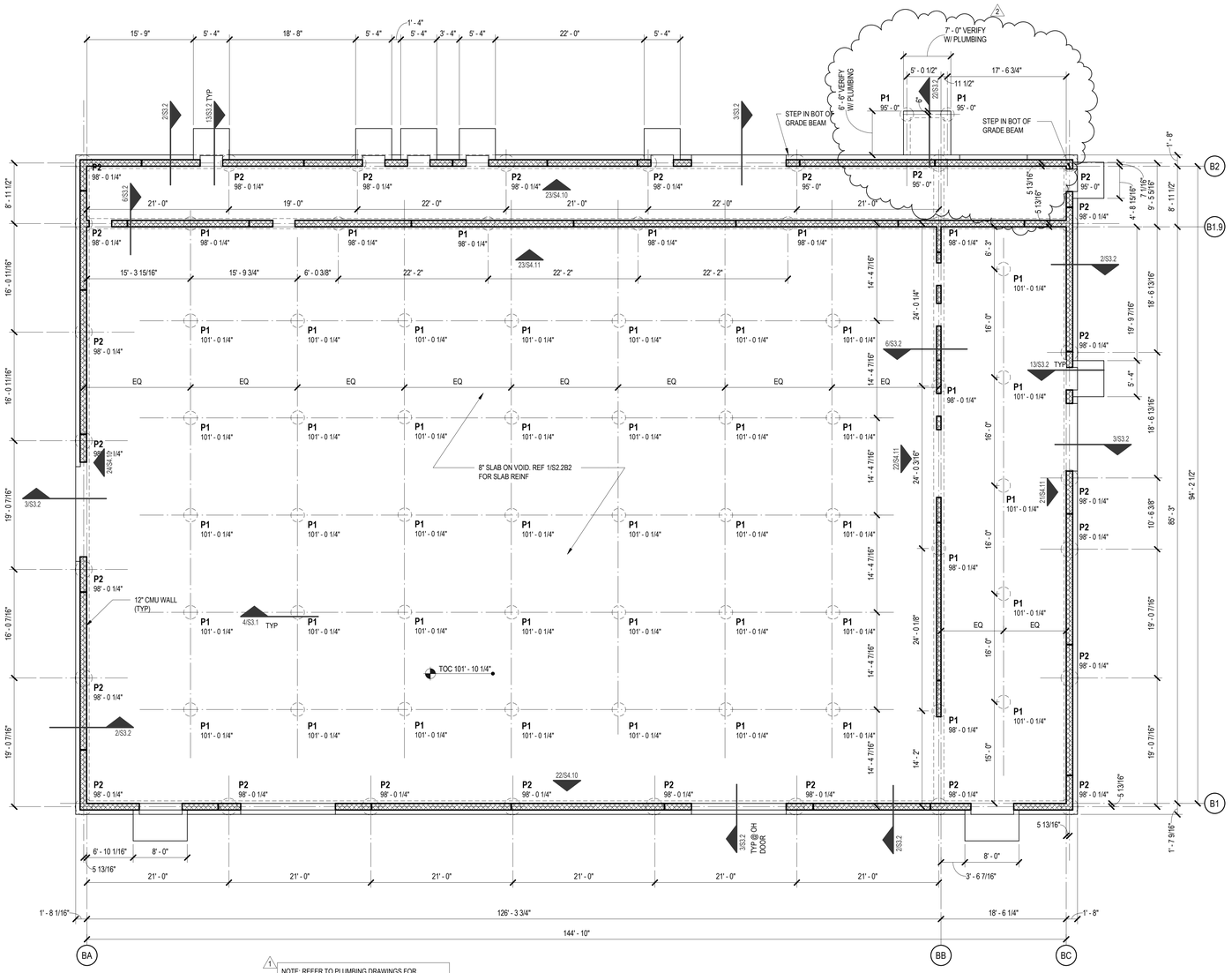
Date: 04/22/2025	



1 NOTE: REFER TO PLUMBING DRAWINGS FOR UNDERGROUND PIPING LAYOUT, PIPE SUPPORT, AND REQUIRED VOIDS/RETAINING WALLS ADJACENT TO PIPES. SEE PLUMBING VOID DETAILS ON SHEET S3.2 FOR ADDITIONAL INFORMATION.

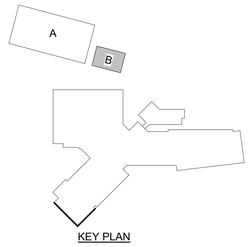
1 FOUNDATION PLAN - AREA B

1/8" = 1'-0"

NORTH

FOUNDATION PLAN NOTES

1. SEE PLAN FOR FINISH FLOOR ELEVATION (RELATIVE TO DATUM 100'-0").
2. TOP OF CONCRETE SLAB IS FINISH FLOOR UNLESS SHOWN OTHERWISE.
3. TYPICAL FLOOR STRUCTURE IS 8" CONCRETE SLAB ON CARTON FORMS UNLESS NOTED OTHERWISE. SEE GENERAL NOTES, SLAB REINFORCEMENT PLAN NOTES, AND DETAILS FOR ADDITIONAL INFORMATION.
4. TOP OF PIER ELEVATION RELATIVE TO DATUM 100'-0".
5. SHEET INDEX:
   - GENERAL NOTES -S1.1
   - PIER SCHEDULE -S3.1
   - CONCRETE DETAILS -S3 SERIES
   - MASONRY WALL DETAILS -S4 SERIES



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1	05/08/25	ADDENDUM 01
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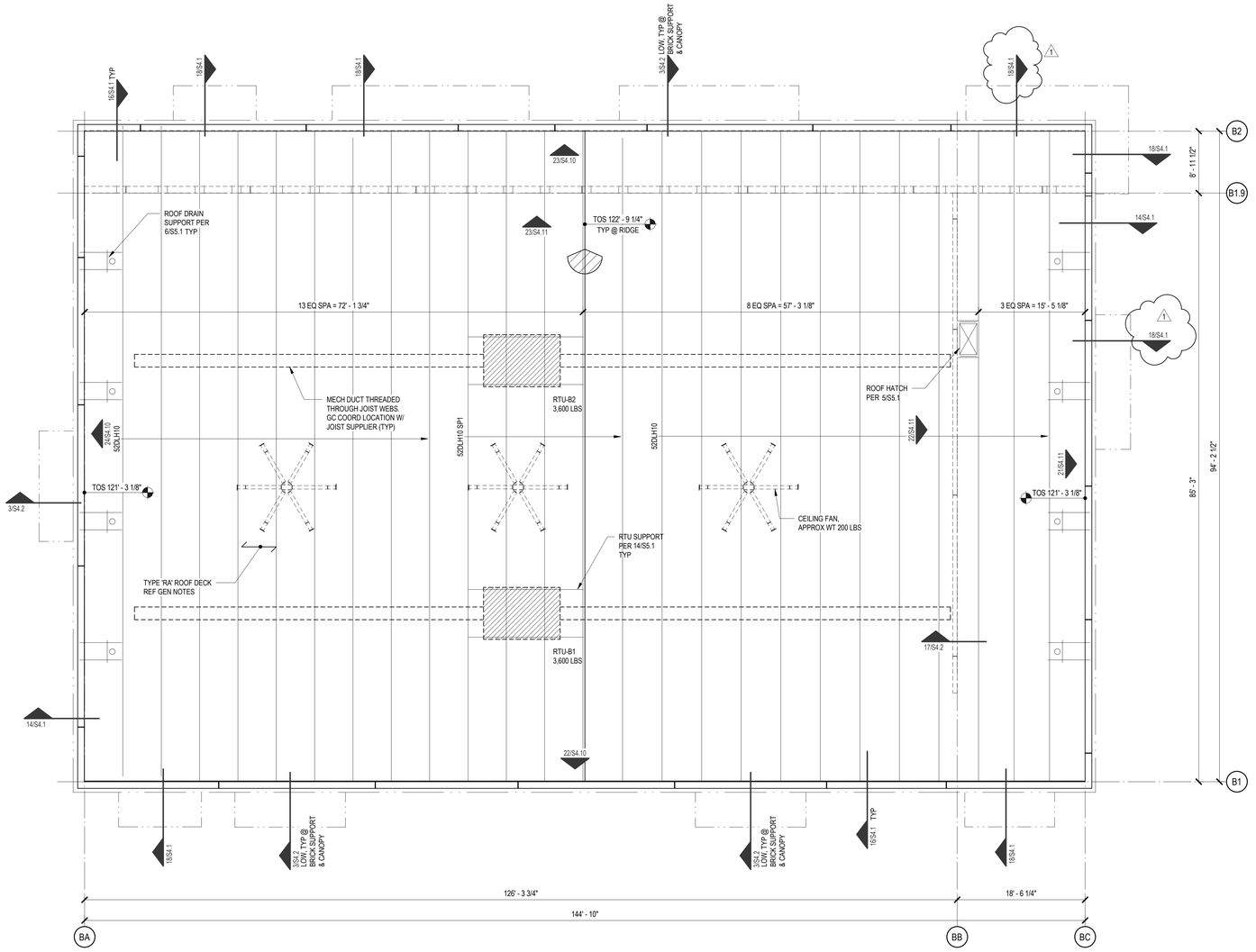
FOUNDATION PLAN - AREA B

PACKAGE	VOLUME
Job No. 1954-07-01	Sheet No. ISSUE FOR BID S2.1B1
Drawn By: LAFP	
Date: 04/22/2025	



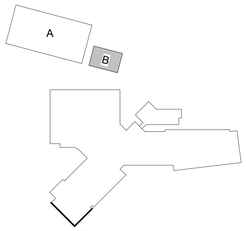
1 ROOF FRAMING PLAN - AREA B

1/8" = 1'-0"

NORTH

PLAN NOTES

1. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. SEE TOP OF STEEL ELEVATIONS NOTED ON FRAMING PLANS, SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNO.
2. TOP OF STEEL ELEVATIONS SHOWN ON PLAN ARE BOTTOM OF ROOF DECK (TOP OF BEAM OR JOIST). ELEVATIONS ARE SHOWN RELATIVE TO DATUM 100'-0" UNO. SEE GENERAL NOTES FOR MORE INFO.
3. UNLESS NOTED OTHERWISE, STEEL JOISTS/BEAMS SHALL BE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
4. JOISTS SUPPORTING MECHANICAL EQUIPMENT SHALL BE DESIGNED FOR TYPICAL ROOF LOADING PLUS A CONCENTRATED LOAD OF 60% OF INDICATED EQUIPMENT WEIGHT PLACED AT ANY PANEL POINT.
5. REFER TO INCLUDED STRUCTURAL NARRATIVE FOR ADDITIONAL INFORMATION REGARDING DESIGN CRITERIA, MATERIALS, FRAMING SYSTEMS INCLUDING ALTERNATES, AND PRICING INFORMATION. SIZES SHOWN ON PLAN ARE FOR REFERENCE ONLY, REFER NARRATIVE FOR PRICING INFORMATION.



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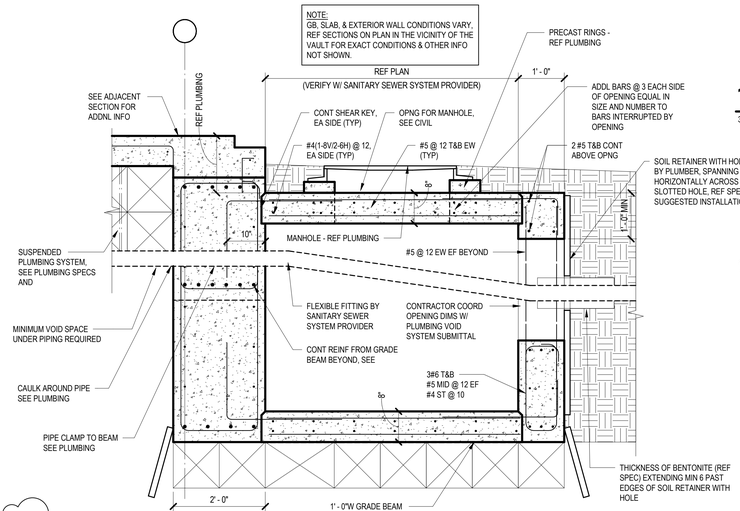
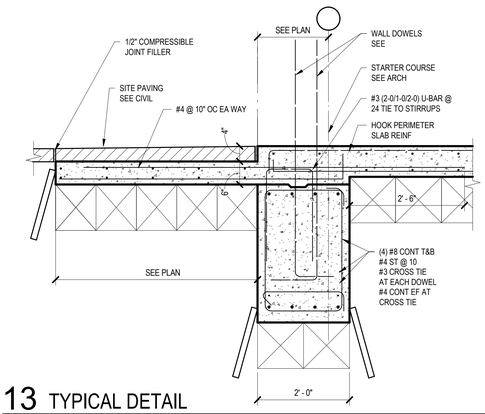
ROOF FRAMING PLAN - AREA B

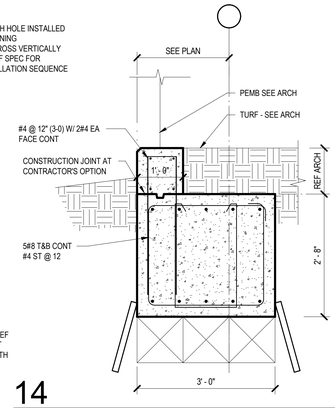
PACKAGE	VOLUME
Job No. 1954-07-01	Sheet No. ISSUE FOR BID S2.1B2
Drawn By: LAFP	
Date: 04/22/2025	



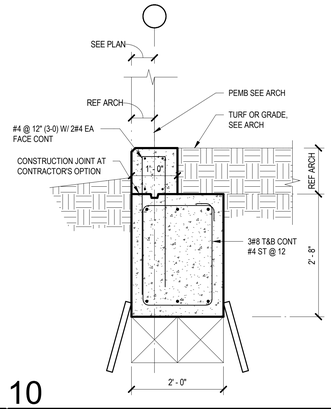
22 TYPICAL PLUMBING VAULT
3/4" = 1'-0"



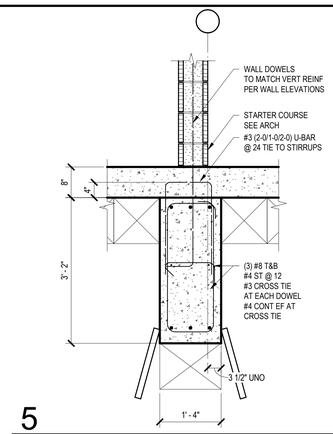
13 TYPICAL DETAIL
3/4" = 1'-0"



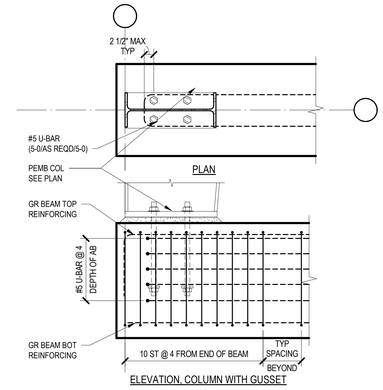
14
3/4" = 1'-0"



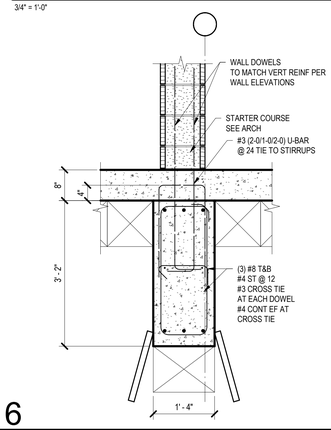
10
3/4" = 1'-0"



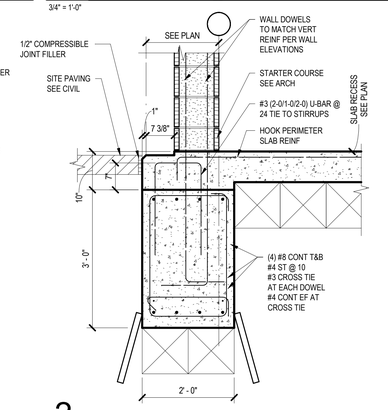
5
3/4" = 1'-0"



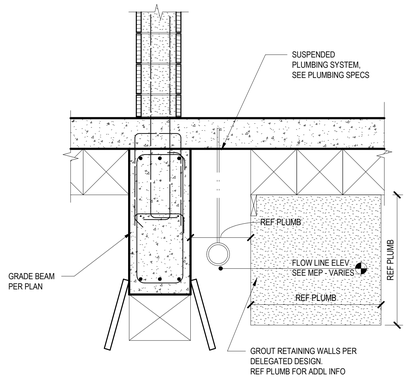
1 GR BM REINF @ PEMB COLUMN
3/4" = 1'-0"



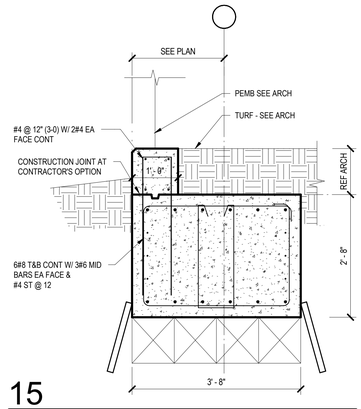
6
3/4" = 1'-0"



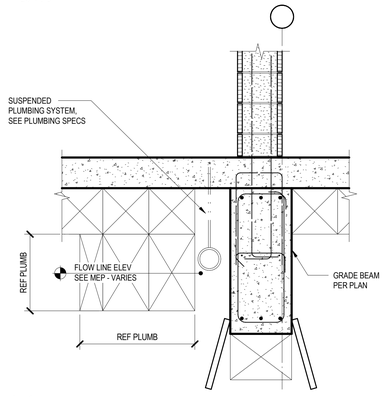
2
3/4" = 1'-0"



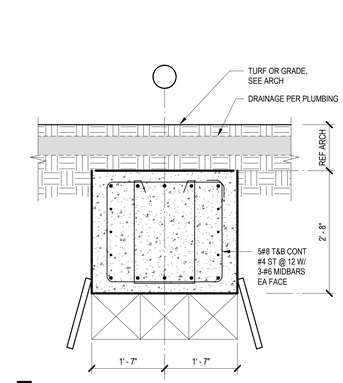
19 PLUMBING VOID DETAIL
3/4" = 1'-0" 1



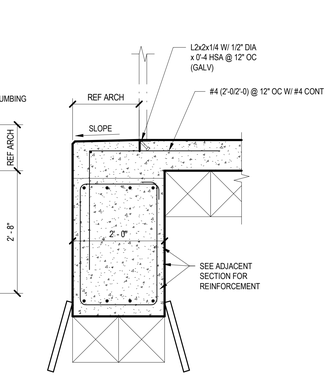
15
3/4" = 1'-0"



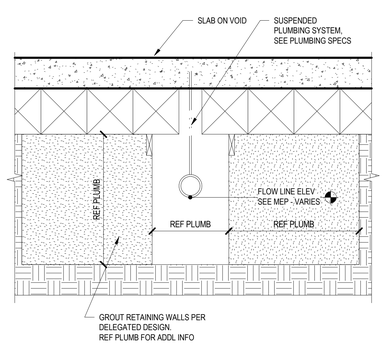
11 PLUMBING VOID DETAIL
3/4" = 1'-0" 1



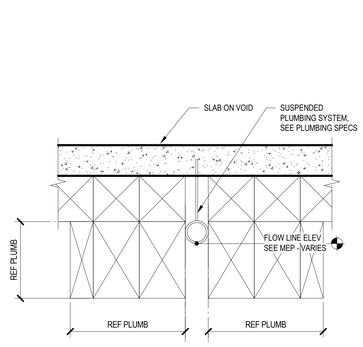
7
3/4" = 1'-0"



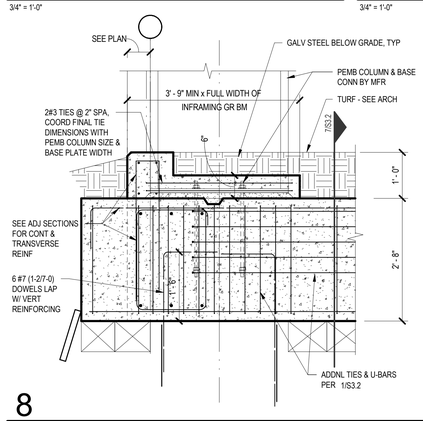
3 OVERHEAD DOOR
3/4" = 1'-0"



16 PLUMBING VOID DETAIL
3/4" = 1'-0" 1



12 PLUMBING VOID DETAIL
3/4" = 1'-0" 1



8
3/4" = 1'-0"

Revision / Date
1 ADDENDUM 01 05/08/25
2 ADDENDUM 03 05/15/25

JOHNSON HIGH SCHOOL
2025 ADDITIONS
FOR
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CONCRETE DETAILS

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Job No. 1064-07-01	Sheet No. S3.2
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Date: 04/22/2025	

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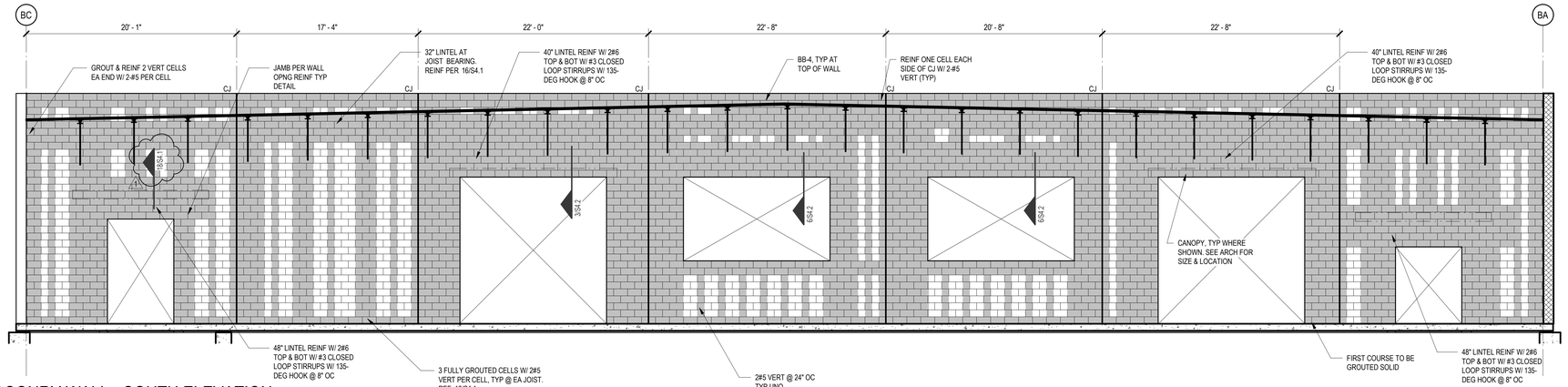
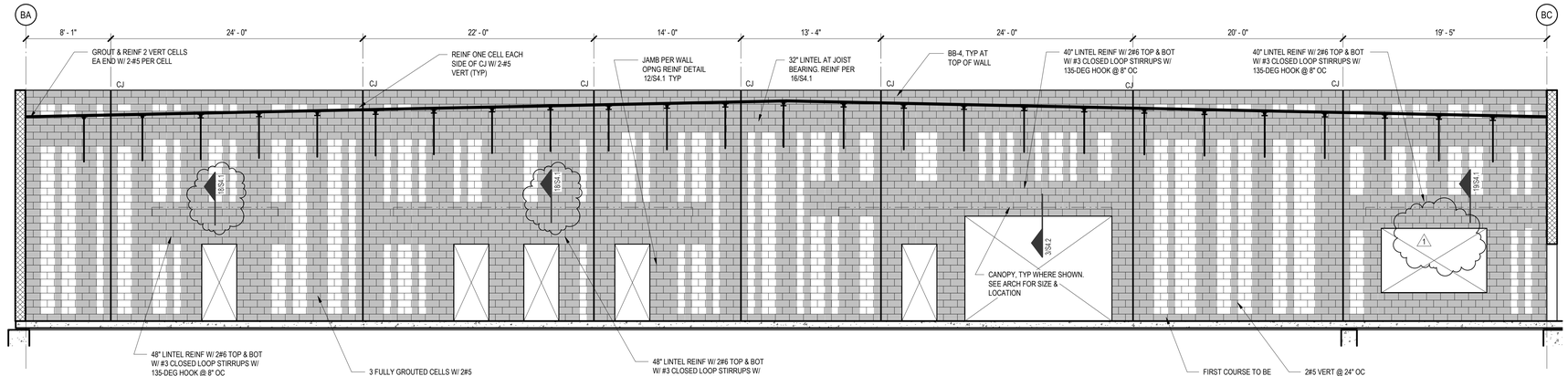


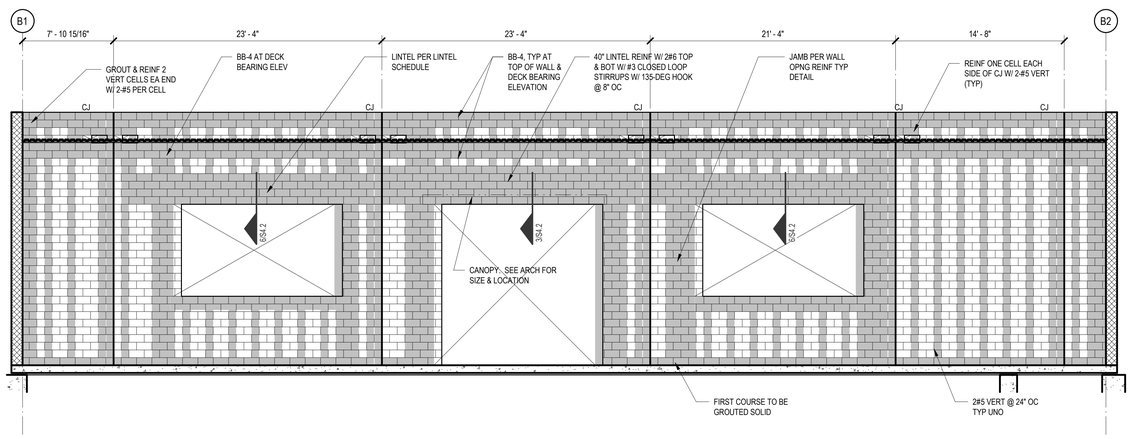
22 MASONRY WALL - SOUTH ELEVATION

3/16" = 1'-0"



23 MASONRY WALL - NORTH ELEVATION

3/16" = 1'-0"



24 MASONRY WALL - WEST ELEVATION

3/16" = 1'-0"

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1	05/15/25	ADDENDUM 03

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MASONRY WALL ELEVATIONS

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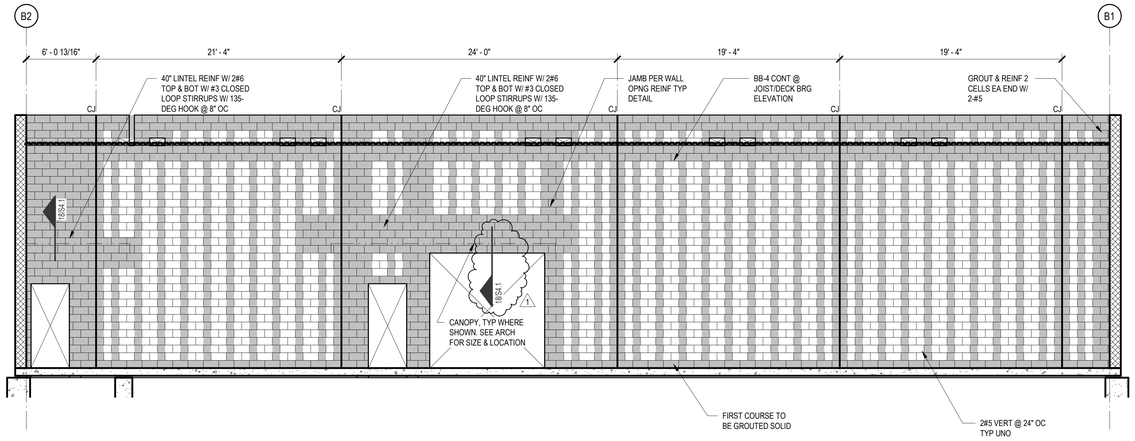
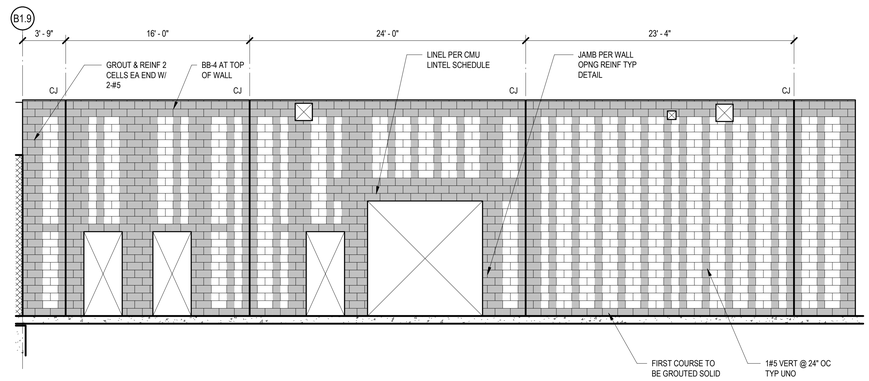


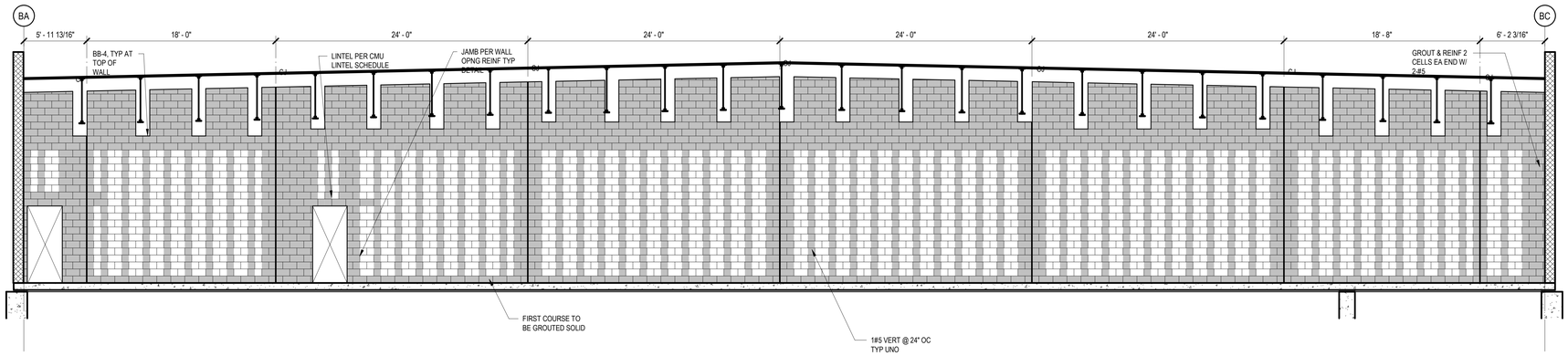
21 MASONRY WALL - EAST ELEVATION

3/16" = 1'-0"



22 MASONRY WALL - GRID BB ELEVATION

3/16" = 1'-0"



23 MASONRY WALL - B1.9 ELEVATION

3/16" = 1'-0"

Revision / 1
Date 05/15/25
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MASONRY WALL ELEVATIONS

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Date: 04/22/2025	

L.A. FUESS PARTNERS, INC.
Structural Engineers
3333 Lee Parkway, Suite 300 • Dallas, TX 75219
LAFP PROJ NO. 24080 FIRM REG. NO. F-537

PLUMBING FIXTURE SCHEDULE

NOTES:

1. PROVIDE WASTE, COLD WATER, HOT WATER, AND VENT PIPING TO ALL PLUMBING FIXTURES AS DESCRIBED IN PLUMBING "FIXTURE CONNECTION SCHEDULE".
2. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL WALL HUNG FIXTURES TO BE INSTALLED WITH WALL CARRIERS, VERIFY CONFIGURATION TYPE.
4. PROVIDE VANDAL RESISTANT SCREWS AT ALL FIXTURES.
5. INSTALL STAINLESS STEEL CAPS AT ALL UNUSED LAVATORY FAUCET HOLES.
6. NO OFFSET FLANGES WILL BE ALLOWED FOR WATER CLOSET INSTALLATIONS.
7. GROUT FOR LEVELING WATER CLOSETS SHALL NOT EXTEND UP ON SIDE OF WATER CLOSET BASES. TAKE GROUT BACK TO MINIMUM 1/8" UNDER BASE AND CAULK FOR FINAL FINISH. VERIFY CAULK COLOR AND TYPE WITH ARCHITECT.
8. REFERENCE ARCHITECTURAL CONTRACT DOCUMENTS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES. CONTACT ARCHITECT FOR ADDITIONAL INFORMATION AS REQUIRED.
9. PROVIDE INVERTED TEE CONNECTION FROM SINK TAILPIECE OR FLUSH VALVE TYPE TRAP PRIMER CONNECTION TO ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS. AS LAST RESORT PROVIDE ELECTRONIC TYPE TRAP PRIMER (SIOUX CHIEF MODEL 695-ES01 FOR UP TO 8 FLOOR DRAINS WITH CORRECT ACCESSORIES). PROVIDE FLUSH MOUNTING BOX WITH KEYED SS COVER. CONNECT TO NEAREST UNSWITCHED 120 VOLT POWER AND PROVIDE DISCONNECTING MEANS. CONNECT TO NEAREST WATER SERVING THAT AREA PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. ALL PLUMBING FIXTURES TO BE "LEAD FREE" AB1953 COMPLIANT (.25% OR LESS AVERAGE LEAD CONTENT). PROVIDE DOCUMENTATION IN SUBMITTALS THAT THIS REQUIREMENT IS MET FOR EACH APPLICABLE FIXTURE.
11. PROVIDE WATER HAMMER ARRESTORS AT ALL PLUMBING FIXTURES. PROVIDE SIZE RECOMMENDED BY MANUFACTURER AND INSTALL IN LOCATIONS AS DIRECTED BY MANUFACTURER.

WCH
WATER CLOSET (ADULT ADA): AMERICAN STANDARD FLOWISE MODEL 3461.001 WITH EVERCLEAN, FLOOR MOUNTED, VITREOUS CHINA, 1-1/2" TOP SPUD, 16-1/2" HIGH ELONGATED BOWL.
EXPOSED FLUSH VALVE: SLOAN ROYAL #111, 1.28 GALLON FLUSH.
SEAT: BEMIS 1955C OR EQUIVALENT. STAINLESS STEEL HARDWARE ONLY (NO PLASTIC ALLOWED).

LH (WALL HUNG-ADULT)
LAVATORY (ADA): AMERICAN STANDARD 0356.015, 20" x 18" VITREOUS CHINA, WALL HUNG, 8" FAUCET CENTERS AND GRID STRAINER. PROVIDE WITH TEMPERATURE MIXING VALVE EQUAL TO POWERS HYDROGUARD LFG480 SERIES, 0.25 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.2 GPM AT 10 psi DROP. SET AT 105° F MAXIMUM (VERIFY ACTUAL TEMPERATURE REQUIRED WITH OWNER).
FAUCET: CHICAGO #404-V317E66ABCP, TEMPERED AND COLD WATER, 4" WRIST BLADE HANDLES, AERATOR.

SKH
SINK (ADA): ELKAY #LRAD-2219-55 (OFF-CENTER DRAIN), 18 GAUGE STAINLESS STEEL, SELF-RIM, 18" x 14" x 5.5" DEEP BOWL, THREE (3) FAUCET HOLES WITH STAINLESS STEEL BASKET STRAINER. PROVIDE WITH TEMPERATURE MIXING VALVE EQUAL TO POWERS HYDROGUARD LFe480 SERIES, 0.5 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.6 GPM AT 10 psi DROP. SET AT 105° F MAXIMUM (VERIFY ACTUAL TEMPERATURE REQUIRED WITH OWNER).
FAUCET: ELKAY #LKD24238HC, SWING GOOSENECK, WRIST BLADE HANDLES.

KSH
KITCHEN SINK (ADA): ELKAY #LRAD-3319 (OFF-CENTER DRAIN), 18 GAUGE STAINLESS STEEL, SELF-RIM, TWO (2) 14" x 14" x 5.5" DEEP BOWLS, FOUR (4) FAUCET HOLES WITH TWO (2) STAINLESS STEEL BASKET STRAINERS. FAUCET HOLE FOR SIDE SPRAY TO BE 6" FROM ADJACENT HOLE TO ACCOMMODATE 4" WRISTBLADE HANDLE. PROVIDE WITH TEMPERATURE MIXING VALVE EQUAL TO POWERS HYDROGUARD LFe480 SERIES, 0.5 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.6 GPM AT 10 psi DROP. SET AT 110° F MAXIMUM (VERIFY ACTUAL TEMPERATURE REQUIRED WITH OWNER).
FAUCET: CHICAGO #1102-GN8AE35-317AB, GOOSENECK, TEMPERED AND COLD WATER, 4" WRIST BLADE HANDLES, 1.5 GPM AERATOR, SIDE SPRAY.

EWCHBF (NON-FILTERED. NO SUBSTITUTIONS - OWNER PREFERENCE)
ELECTRIC WATER COOLER WITH BOTTLE FILLER (ADA): ELKAY #VRCGRNTL8WSCX, HIGH EFFICIENCY, NON-FILTERED, SENSOR ACTIVATED BOTTLE FILLING STATION, VANDAL RESISTANT, TWO (2) STATION, VANDAL RESISTANT PUSH BUTTON IN FRONT, VANDAL RESISTANT BUBBLERS, STAINLESS STEEL FINISH, and CANE APRON. 120V-1PH. MODIFIED WITH BOTTLE FILLER ON LOWER RIGHT UNIT. VERIFY EXACT LOCATION OF BOTTLE FILLER WITH ARCHITECT PRIOR TO ORDERING.

SS
SERVICE SINK: FIAT #TSB-3001, 32" x 32" x 12"H ONE-PIECE PRECAST TERRAZO WITH CONTINUOUS STAINLESS STEEL CAPS ON ALL CURBS AND 6" FRONT DROP THRESHOLD, 832-AA HOSE AND HOSE BRACKET, MSG-3232 STAINLESS STEEL WALL GUARD.
FAUCET: MOEN #8230 SERVICE SINK FAUCET WITH VACUUM BREAKER, THREADED SPOUT, SERVICE STOPS AND WALL BRACKET.
PROVIDE WITH ADDITIONAL HOSE BIBB EQUAL TO WOODFORD MODEL 26 ABOVE SERVICE SINK. THIS HOSE BIBB IS TO BE FED FROM WATTS 009 RPZ FOR CONTINUOUS PRESSURE APPLICATIONS.

HB
HOSE BIBB: WOODFORD MODEL B67 SERIES, IN FLUSH MOUNTING WALL BOX, ASSE 1052 OR 1011 BACKFLOW PROTECTED AUTOMATIC DRAINING, FREEZELESS, NO SPRAYBACK. PROVIDE SHUT-OFF VALVE INSIDE BUILDING IN ACCESSIBLE LOCATION. SLOPE LINE FROM SHUT-OFF VALVE TO WALL HYDRANT TO ALLOW DRAINING OF LINE FOR FREEZE PROTECTION.

HB2
HOSE BIBB (MILD CLIMATE): WOODFORD MODEL 26, METAL WHEEL HANDLE, ASSE 1052 OR 1011 BACKFLOW PROTECTED AUTOMATIC DRAINING, FREEZELESS, NO SPRAYBACK, ¾" HOSE CONNECTION.

HBR
ROOF MOUNTED HOSE BIBB: WOODFORD MODEL SRH-MS, FREEZELESS, NO DRAIN LINE REQUIRED, ASSE 1057 LISTED, ASSE 1052 LISTED BACKFLOW PREVENTER, MOUNTING SYSTEM, UNDER DECK SUPPORT FLANGE. BALL VALVE FOR SHUT-OFF TO BE LOCATED SO THAT IT IS ACCESSIBLE FROM AN EIGHT FOOT (OR SHORTER) LADDER.

WB (REFRIGERATOR WALL BOX)
WALL BOX FOR CONNECTION TO REFRIGERATOR WATER AND/OR ICE MAKER EQUAL TO SOUIX CHIEF 696 SERIES WITH ABS OUTLET BOX, 1/4 TURN VALVE AND ASSE 1010 WATER HAMMER ARRESTOR.

WH-B1
WATER HEATER: A.O.SMITH MODEL DEL-50, 50 GALLON STORAGE, 6KW-208V-1PH NON-SIMULTANEOUS ELEMENTS, 31 GPH RECOVERY AT 80 DEGREES RISE.

HWRP- B1
HOT WATER RECIRCULATION PUMP: GRUNDFOS UPS15-55, THREE SPEED, 4 GPM AT TEN FEET (10') OF HEAD. 1/12 HP-120V-1PH.

FD
FLOOR DRAIN (GENERAL PURPOSE): C.I. BODY, FLASHING COLLAR, WEEPHOLES, ADJUSTABLE HEAVY DUTY STAINLESS STEEL SQUARE TOP (6" X6") AND STAINLESS STEEL SEDIMENT BASKET. MIFAB F1000-C-S-5-6-7 SERIES.

FS
FLOOR SINK: 12" x 12" x 8" DEEP WITH ACID-RESISTING PORCELAIN ENAMEL INTERIOR, ALUMINUM INTERNAL DOME STRAINER, and STAINLESS STEEL GRATE (**1/2 GRATE TYPE**). MIFAB FS1730-3 SERIES.

FS1
FLOOR SINK: 12" x 12" x 8" DEEP WITH ACID-RESISTING PORCELAIN ENAMEL INTERIOR, ALUMINUM INTERNAL DOME STRAINER, and STAINLESS STEEL GRATE (**3/4 GRATE TYPE**). MIFAB FS1730-3 SERIES.

FS2
FLOOR SINK: 12" x 12" x 8" DEEP WITH ACID-RESISTING PORCELAIN ENAMEL INTERIOR, ALUMINUM INTERNAL DOME STRAINER, and STAINLESS STEEL GRATE (**HINGED FULL GRATE TYPE**). MIFAB FS1730-3 SERIES.

RD1 (PRIMARY)
PRIMARY ROOF DRAIN: CAST IRON BODY, FLASHING COLLAR, GRAVEL STOP, GALVANIZED METAL DOME, UNDER DECK CLAMP, EXTENSION AND SUMP RECEIVER. MIFAB R1200-12-B-E-U SERIES.

RD2 (OVERFLOW)
OVERFLOW ROOF DRAIN: SAME AS RD1, SET ADJUSTABLE INLET 2 INCHES HIGHER THAN INLET OF RD1. MIFAB R1200-12-B-E-U-WB. COORDINATE AND CONFIRM FINAL LOCATION WITH ROOFING CONSULTANT PRIOR TO ROUGH-IN.

DN
DISCHARGE NOZZLE: MIFAB R1960, STAINLESS STEEL WITH HINGED PERFORATED COVER. SAME SIZE AS RAINLEADER.

Revision / 2 — Date 05/14/25 — Addendum No.3

Project:
JOHNSON HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
BUDA, TX

STATE OF TEXAS
B.J. HENDRIX
94813
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.J. HENDRIX, P.E. NO. 94813 ON 04/22/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

MEP/ENERGY CONSULTANTS
HCE HENDRIX CONSULTING ENGINEERS
COMMISSIONING • FIELD INVESTIGATIONS

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HCE job no.: 24-033

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SCHEDULES - PLUMBING

PACKAGE VOLUME

Job No. 1954-07-01
Drawn By: KAM
Date: 04/22/2025
Sheet No. ISSUE FOR BID P0.10

5/14/2025 10:04:24 AM
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ROOFTOP UNIT SCHEDULE

NATURAL GAS / ELECTRIC (UNIT TYPES) 480/3

	DX COOLING								SUPPLY FAN							GAS HEATING				ELECTRICAL				MANUFACTURER / MODEL			
UNIT TYPE	NOMINAL TONAGE	NO. OF COOLING STAGES	NO. OF COMP	MIN TOTAL MBH	MIN SENSIBLE MBH	MIN SEER	MIN IEER	MIN EER	1ST STAGE CFM	2ND STAGE CFM	3RD STAGE CFM	4TH STAGE CFM	NAME PLATE HP	EXTERNAL STATIC PRESSUR...	DRIVE TYPE	MAX INPUT MBH	OUTPUT MBH	MIN STAGES	HEATING CFM	VOLTS	PHASE	MCA	MOCP	LENNOX	TRANE		MAX WT
G2	2	1	1	23.1	17.9	14		12.5	800	800			0.33	0.5	Multi-Speed ECM Direct Drive	65	52	1	800	208	1	19	25	KGB024S4E			1100
G2.5	2.5	2	1	32.8	24.6	17		13.5	700	1000			0.5	0.5	Multi-Speed ECM Direct Drive	60	48	2	1000	480	3	9	15	LGT036H4E			1100
G3	3	2	1	34.1	27.3	17		13.5	800	1200			0.5	0.5	Multi-Speed ECM Direct Drive	65	52	2	1200	480	3	9	15	LGT036H4E			1100
G4	4	2	1	51.5	40.2	17		12.8	1070	1600			1	0.5	Multi-Speed ECM Direct Drive	65	52	2	1600	480	3	13	15	LGT048H4E			1100
G5	5	2	1	57.7	45.0	17		12.7	1350	1950			1	0.5	Multi-Speed ECM Direct Drive	65	52	2	1950	480	3	14	15	LGT060H4E			1100
G6	6	2	1	70.1	55.4		17	12.1	1540	2300			1.5	0.5	Multi-Speed ECM Direct Drive	65	52	2	2300	480	3	15	20	LGT072H4E			1100
G7	7.5	3	2	88.0	64.2		15.7	12.3	1750	2300	3000		3.75	0.6	Multi-Speed ECM Direct Drive	130	104	2	3000	480	3	23	25	LGT092H4E			1700
G8	8.5	3	2	93.3	70.9		15.7	12.1	2000	2700	3400		3.75	0.75	Multi-Speed ECM Direct Drive	130	104	2	3400	480	3	23	25	LGT102H4E			1700
G10	10	3	2	113.7	84.1		15.5	12	2400	3100	4000		3.75	0.75	Multi-Speed ECM Direct Drive	130	104	2	4000	480	3	25	30	LGT120H4E			1700
G12	12.5	3	2	135.0	101.0		14.6	10.8	2800	3400	4800		3.75	0.75	Multi-Speed ECM Direct Drive	180	144	2	4800	480	3	30	40	LGT150H4E			1700
G13	13	3	2	147.2	112.0		15.5	12	3000	3800	5000		3	0.75	Multi-Stage Air Volume Belt	260	208	2	5000	480	3	34	45	LGT156H4M			3000
G15	15	3	3	172.1	132.5		15	12	3400	4500	6000		3	0.75	Multi-Stage Air Volume Belt	260	208	2	6000	480	3	33	35	LGT180H4M			3000
G17	17.5	4	4	200.3	150.8		15.5	12	3800	4700	5400	6400	5	1	Multi-Stage Air Volume Belt	260	208	2	6400	480	3	42	45	LGT210H4M			3600
G20	20	4	4	231.2	174.4		15.8	12	4800	5400	6300	7500	7.5	1	Multi-Stage Air Volume Belt	260	208	2	7500	480	3	49	50	LGT240H4M			3600
G25	25	4	4	276.0	212.5		14.5	10.6	5700	6800	7900	9500	10	1	Multi-Stage Air Volume Belt	260	208	2	9500	480	3	65	70	LGT300S4M			3600

ROOFTOP UNIT SCHEDULE

UNIT MARK	UNIT TYPE	O/A CFM RAW	O/A CFM NEUTRAL	MAU SERVING	ACCESSORIES AND NOTES
RTU-B1	G17	500	0		8
RTU-B2	G17	500	0		8

ROOF TOP UNIT SCHEDULE NOTES AND ACCESSORIES

THESE NOTES APPLY TO ALL RTU'S

ONLY "UNIT TYPES" LISTED IN THE PROJECT SCHEDULE WILL BE USED ON THIS PROJECT.

UNIT TYPE BREAKDOWN:

G = GAS HEAT RTU **E** = ELECTRIC HEAT RTU **P** = HEAT PUMP RTU

STANDARD FEATURES TO BE PROVIDED WITH ALL UNITS:

DESIGN CONDITIONS:

All gross capacities listed are at standard ARI conditions (80/67/95) with standard airflow.

UNIT CONSTRUCTION (STANDARD FEATURES):

A. **Base pan -** Fully insulated under all sections of the unit.
B. All units to operate in cooling down to 0 degrees Fahrenheit.
C. **Service access doors** to be hinged with 1/4 turn cam lock handles.
D. **Condensate drain pan -** Stainless Steel or non-corrosive sloped, galvanized pans are not acceptable.
E. **Supply Fan -** High efficiency direct drive blowers with ECM or VFD when available. Belt drive models to have VFD for soft start.
F. **Voriable Frequency Drives (VFD's) -** provide with full bypass for use in case of VFD failure.
G. **Air flow -** Units with multiple stages of cooling must have multiple speed supply air fans so that the leaving air temperture in all cooling stages is approximately the same (min 50 degrees F.).
H. **Electric Heaters -** provide kw indicated in schedule.
I. **Propane gas fired units -** provide factory or feild installed LP conversion kits when schedule or plumbing plans indicate Propane Gas is to be provided to the site. Natural gas parts to be placed inside unit control cabinet. Contractor to verify gas type with all documents.
J. **Roof curb -** Full perimeter roof curb that extends a minimum of 14" above finished roof, curb height to be coordinated with roof insulation and cricket thickness to determine required curb height . Top of curb must be level, coordinate roof slopes with Structural Steel shop drawing. All curbs to have wood nailer. Reference details.
K. **Pad mounted units -** Heavy guage (min 16 Ga Galvenized) full perimeter curb for pad mounting, minimum 12" tall set on neoprene isolation pads. Ground mounted unit curbs must be installed on a 4" tall concrete house keeping pad.
L. **Tie Down restraints** from RTU to curb as required by code.
M.
N.
O. See specifications for standard accessories, features and controls required. Unit specified sets standards of construction and features.

UNIT CONSTRUCTION (OPTIONS TO ALWAYS BE INCLUDED):

A. **Hail guards** to be painted minimum 18 gauge expanded metal. These are required even with sloped condenser coils.
B. **Condensate float switch -** factory installed and wired (code mandated).
C. **Stainless Steel** heat exchangers.
D. **Locking refrigerant access port caps** on all ports where required by code. Turn keys over to owner.
E. **HOT-GAS REHEAT:** non-modulating hot gas reheat coil equal to Lennox "Humiditrol" controlled by wall mounted Dehumidistat (or DDC sensor) to enable dehumidification mode if space humidity rises above 60%(adj) relative humidity (rh) and space is not calling for sensible heating or cooling. Dehumidistat to be located 18" above thermostat unless shown or noted otherwise. Dehumidification must be locked out when space temperature falls below 70 degrees F.

SPARE PARTS:

A. **Belts:** 2 spare sets of belts for each belt drive RTU.
B. **Filters:** 3 sets – 1 set installed plus 2 spare sets of 2" thick pleated filters equal to Camfil Farr 30/30. Install clean set prior to air balance and turn final set over to owner.

OUTSIDE AIR:

A. **Raw Outside Air - if scheduled in Project Schedule**: provide motorized outside air (O/A) damper with intake hood. Outside Air Damper to only open when Heating or Cooling is operating.
1. **Raw O/A - 2 Position Damper Control -** (1) Closed / (2) Open to scheduled OA cfm, install a **CO2 SENSOR** mounted 18" from unit thermostat/sensor to monitor space conditions. **Two Position Outside Air Damper** opens to scheduled O/A volume only when space is occupied, and CO2 level is above 800 PPM and Heating and Cooling is operating. Closed all other times.
2. **Do not provide an economizer for raw O/A intake.**

B. **No Raw Outside Air**: scheduled or if unit shows only neutral outside air, **do not** provide an outside air hood and damper.
C. **Neutral Outside Air**: To be provide by a dedicated outside air unit ducted directly to the space or connected to the return duct system of an RTU. Outside air from dedicated outside air units may or may not be listed in the Rooftop Unit Schedule. Contractor to verify final quantities with plan notes and Outside Air Unit Schedules.

ELECTRICAL:

A. **Voltage and Phase -** provide voltage and phase listed in schedule. It is the contractors responsibility to verify electrical service provided with electrical plans and electrical contractor. For remodel and change-out projects the contractor is to field verify what type of electrical service is existing to be reused prior to releasing equipment order. Any descrepancies to be reported to Engineer.
B. **Phase loss**/reversal protection. (3 phase only)
C. **Mechanical/electrical coordination sheet** to be filled out by mechanical contractor and submitted to electrical contractor and engineer (reference specifications)
D. **Fused disconnects -** to be provided by Electrical Contractor.
E. **Service receptacles -** to be provided by the Electrical Contractor as required by code.

CONTROLS, START-UP, TEST & BALANCE, SUBMITTALS : REFERENCE BLOCK NOTES AND SPECIFICATIONS.

A. **Air purification:** mechanical contractor to provide and install bi-polar ion generators for all units listed in schedule. Reference bi-polar ion generators schedule for types and quantities.
B. **DUCT SMOKE DETECTOR** in supply and/or return air duct (as determined by authority having jurisdiction) of each unit provided and wired by fire alarm contractor and installed by mechanical contractor. Fire alarm contractor shall provide a shutdown relay located within unit control compartment and make connections from detector to relay. Controls contractor shall provide wire and connections from control relay to unit controls. If a fire alarm system is not provided the mechanical contractor is to provide and install duct detector(s), shut down relay, remote test switch and audible/visual indicator.
C. When DDC controls are provided, all units are to be controlled using a Unit Controller (BACNET) integration not acceptable.

ACCESSORIES AND NOTES: (ONLY PROVIDE ACCESSORIES LISTED IN ACCESSORIES AND NOTE COLUMN IN RTU PROJECT SCHEDULE)

1. **MULTIPLE THERMOSTATS:** units controlled by multiple thermostats, each having equal authority.
2. **CURB ADAPTER:** internally lined curb adapter with internal ductwork to adapt new RTU to existing RTU Curb. Field verify existing conditions. Reference sheet notes.
3. **Vibration isolation rails**.
4. **Cooling only unit**. No heat.
5. **PLENUM CURB:** fully insulated (top, bottom and sides insulated with Armaflex sheet with minimum r8 value) solid bottom plenum curb with insulated divider plate between supply and return sides. Minimum height is 18". Bottom or side discharge as shown on plans
6. **Energy Code Mandated Economizer** (minimum 3 position) with barometric relief. Program per specifications, dry bulb control, economizer to be enabled to operate when ambient temperature is below 55 degrees.
7. **Powered exhaust** (added to economizer).
8. Unit serving space that has overhead door. Provide interlock that will shut down unit if the overhead door is open.

Revision /	Date	
2	05/14/25	Addendum No.3

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STATE OF TEXAS
BJ HENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER

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MEP/ENERGY CONSULTANTS

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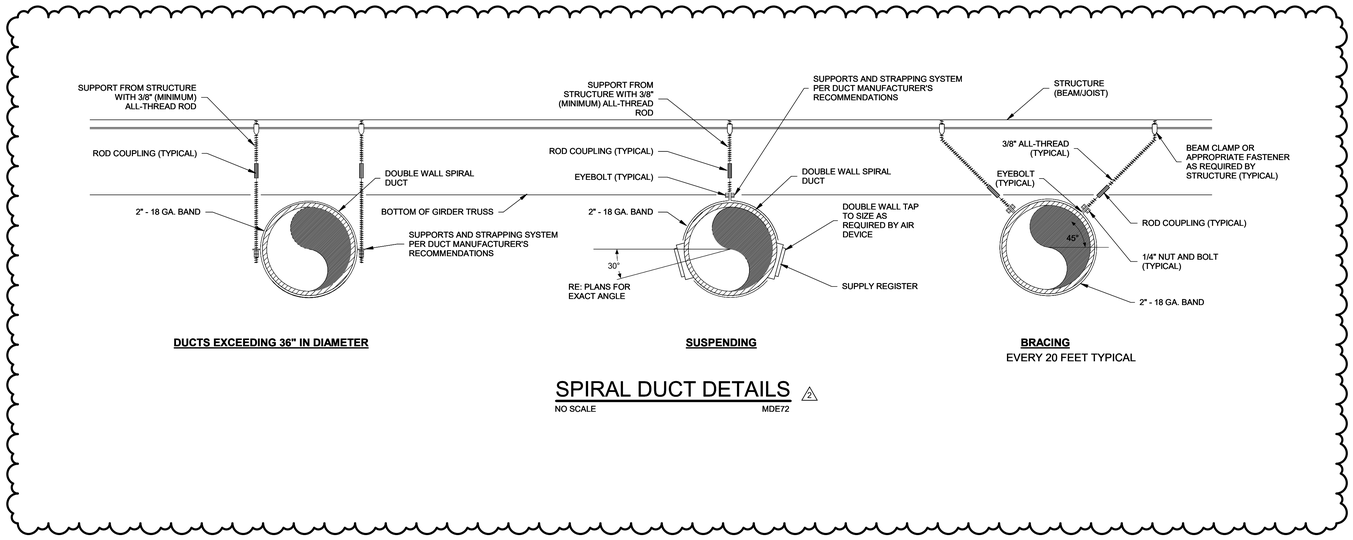
HCE job no.: 24-033

SCHEDULES - MECHANICAL

PACKAGE VOLUME

Job No. 1954-07-01
Drawn By: KAM
Date: 04/22/2025

Sheet No.
ISSUE FOR BID
M0.10



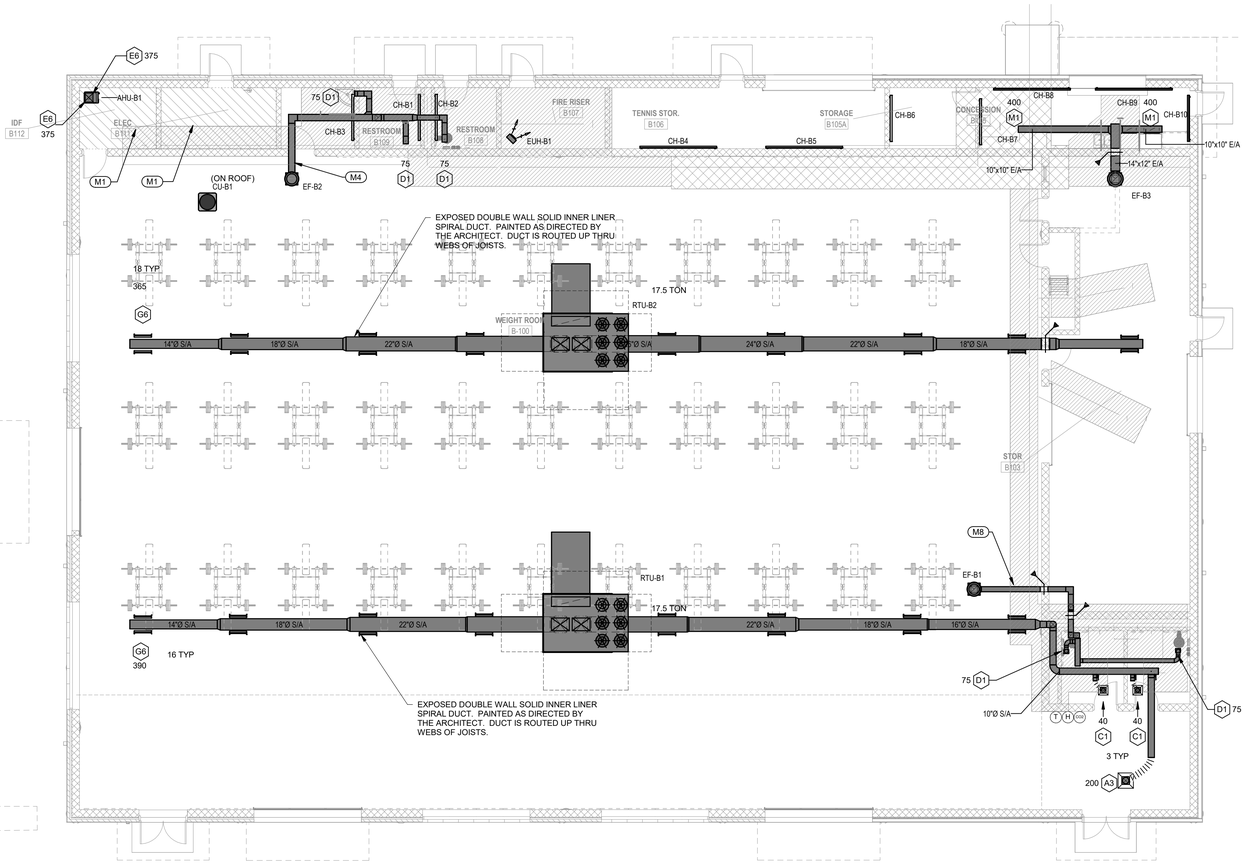
SPIRAL DUCT DETAILS ⚠2

NO SCALE MDE72

MECHANICAL KEY NOTES

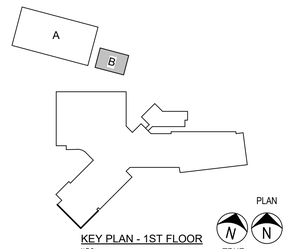
THESE NOTES APPLY TO THIS SHEET ONLY

M1	DO NOT ROUTE ANY DUCTWORK ABOVE THIS AREA.
M4	DUCT FROM ROOF TO WALL PENETRATION OF JAN B110 TO BE DOUBLE WALL INSULATED AND PAINTED AS DIRECTED BY THE ARCHITECT.
M8	DUCT FROM ROOF TO WALL PENETRATION OF STOR B103 TO BE DOUBLE WALL INSULATED AND PAINTED AS DIRECTED BY THE ARCHITECT.



01 FIRST FLOOR PLAN - AREA B - MECHANICAL

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



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HCE job no.: 24-033

FIRST FLOOR PLAN - AREA B - MECHANICAL

PACKAGE	VOLUME
Job No. 1954-07-01	Sheet No. M2.12
Drawn By: KAM	ISSUE FOR BID
Date: 04/22/2025	

MISCELLANEOUS EQUIPMENT SCHEDULES

GENERAL NOTES:

A. ELECTRICIAN TO PROVIDE 120V POWER TO ALL EQUIPMENT FROM NEAREST PANEL HAVING CAPACITY, UNLESS OTHERWISE NOTED.

B. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL PARTS AND LABOR TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. POWER MAY BE SHOWN IN GENERAL LOCATION. IT IS EXPECTED THAT THE ELETRICAL CONTRACTOR COORDINATE FINAL LOCATION FOR ROUGH-IN AND CONNECTION REQUIREMENTS WITH EXACT EQUIPMENT BEING INSTALLED. THESE ITEMS INCLUDE, BUT NOT LIMITED TO, BOOK SECURITY, EXHAUST FANS, KILNS, HAND DRYERS, SENSOR OPERATED PLUMBING DEVICES, ELECTRIC OVERHEAD DOORS, FIRE SMOKE DAMPERS, AIR PURIFICATION UNITS, ETC.

DAIKIN VRF AC SYSTEMS
REFERENCE FLOORPLANS. PROVIDE SNAP SWITCH AT ALL BRANCH SELECTORS AND FCU FOR DISCONNECTING MEANS, CIRCUIT AS SHOWN. PROVIDE DISCONNECTS AS SHOWN FOR ALL AHU'S AND HRU'S. REFER TO PIPING AND WIRING DIAGRAMS ON THE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.

DAIKIN MINI-SPLIT AC SYSTEMS
POWER IS CONNECTED TO OUTDOOR UNIT, INDOOR UNIT IS FED FROM OUTDOOR UNIT AND POWER AND COMMUNICATION WIRES MUST BE RUN IN ITS OWN DEDICATED CONDUIT. REFERENCE PLANS AND MANUFACTURER'S INSTALLATION MANUAL.

LIGHTING CONTROL
REFERENCE LIGHTING CONTROL DETAILS AND NOTES.
1. EXTERIOR LIGHTS BY BAS.
2. INTERIOR LIGHTS BY 'NLIGHT'.

POWER FOR SPECIAL SYSTEMS POWER SUPPLIES
1. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO ALL SECURITY, FIRE ALARM, ACCESS CONTROL, ETC. POWER SUPPLIES. COORDINATE EXACT LOCATION WITH SPECIAL SYSTEMS CONTRACTOR AND FLOOR PLANS. PROVIDE DEDICATED LOW VOLTAGE CIRCUIT TO NEAREST PANEL HAVING CAPACITY U.O.N.
2. LABEL ALL SPECIAL SYSTEMS POWER SUPPLIES WITH PANEL AND CIRCUIT NUMBERS.

POWER ON FURNITURE ISLANDS
PROVIDE 1"C MINIMUM IN SLAB OR UNDER FLOOR TO FEED PLUGS DEVICES SHOWN ON CABINETS OR MILLWORK NOT ATTACHED TO WALLS.

RECEPTACLES AT MILLWORK
COORDINATE FINAL RECEPTACLE LOCATIONS AND ELEVATIONS WITH MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. REVIEW ARCHITECTURAL INTERIOS ELEVATIONS FOR FINAL LAYOUTS OF EQUIPMENT TO BE POWERED. REFERNCE DEVICE MOUNTING HEIGHT DETAIL FOR MOUNTING HEIGHTS.

ELECTRIC WATER COOLER (EWC) POWER
RECEPTACLE FOR POWER TO BE LOCATED BEHIND EWC AND HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION WITH ACTUAL EQUIPMENT.

MOTORIZED CURTAIN / BLINDS / SHADES
CIRCUIT IS SHOWN IN GENERAL AREA AND DOES NOT REPRESENT QUANTITY OF LINE VOLTAGE CONNECTIONS. COORDINATE WITH ARCHITECT SPECIFICATIONS, SCHEDULES AND EXACT CURTAIN BEING PROVIDED FOR ALL ROUGH-IN REQUIREMENTS. CONNECT POWER TO MASTER CONTROL UNIT AND EACH CURTAIN / BLINDS / SHADES PER MANUFACTURE RECOMMENDATIONS. THIS INFO FOR BIDDING PURPOSES ONLY.PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE WORKABLE SYSTEM. PROVIDE ROUGH-IN AND CONNECTING CONDUIT FOR CONTROL OF BLINDS. WHEN NO LOCATION FOR CONTROL CAN BE COORDINATED, LOCATE NEXT TO ROOM LIGHT SWITCH AND LABEL. COORDINATE FINAL ROUGH-IN LOCATION AND FINAL REQUIREMENTS WITH OWNER/ARCHITECT.

MOTORIZED DAMPERS
PROVIDE 120V POWER TO ALL MOTORIZED DAMPERS SHOWN ON MECHANICAL DRAWINGS. COORDINATE DAMPER CONTROL REQUIREMENTS WITH MECHANICAL DRAWINGS.

EXHAUST FAN
ELECTRICAL CONTRACTOR SHALL WIRE ALL EXHAUST FANS TO BE CONTROLLED PER "EXHAUST FAN SCHEDULE" ON MECHANICAL SHEET. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS, CONTACTORS, SPRING WOUND TIMERS, ETC., AS REQUIRED PER SCHEDULE TO OPERATE AND CONTROL EXHAUST FAN. IF NO CONTROL IS SPECIFIED, EXHAUST FAN SHALL ENERGIZE WHEN LIGHTS IN ANY ROOM IT SERVES ARE POWERED ON. REFERENCE DETAIL ON ELECTRICAL SHEET FOR ADDITIONAL INFORMATION.

PROJECTION SCREEN
PROVIDE POWER FOR SCREEN. PROVIDE ROUGH-IN AND CONNECTING CONDUIT FOR CONTROL OF SCREEN. COORDINATE EXACT ROUGH-IN LOCATION AND FINAL REQUIREMENTS WITH OWNER/ARCHITECT.

FIRE DOOR
POWER FOR FIRE DOOR. COORDINATE FINAL LOCATION AND POWER REQUIREMENTS WITH ACTUAL DOOR BEING SUPPLIED. INSTALL KEYED SWITCHES PROVIDED BY DOOR MANUFACTURER ON BOTH SIDES.

MOTORIZED OVERHEAD DOORS
PROVIDE POWER FOR DOOR AS SHOWN ON PLANS. PROVIDE SNAP SWITCH AS DISCONNECTING MEANS ADJACENT TO DOOR ABOVE CEILING. PROVIDE ABOVE CEILING CONTROLS J-BOX WITH CONDUIT TO DOOR OPERATOR FOR CONTROLS CABLE ROUTING. PROVIDE J-BOX AT MID-OPENING HEIGHT WITH CONDUIT TO ABOVE CEILING CONTROLS J-BOX ON ONE SIDE OF DOOR FOR BOTTOM BAR SENSING EDGE CONNECTIONS. PROVIDE J-BOX AT 6" AFF ON EACH SIDE OF DOOR WITH CONDUIT TO ABOVE CEILING CONTROLS J-BOX FOR PHOTO EYES ON EACH SIDE OF DOOR. PROVIDE J-BOX FOR DOOR CONTROL STATION AT LOCATION DIRECTED BY ARCHITECT OR OWNER WITH CONDUIT TO ABOVE CEILING CONTROLS J-BOX. PROVIDE CONTROL WIRES AS SPECIFIED BY THE MANUFACTURER AND MAKE ALL CONNECTIONS REQUIRED IN INSTALLATION MANUAL. DO NOT MAKE ANY CONNECTIONS THAT ARE INDICATED TO BE COMPLETED BY THE DOOR CONTRACTOR IN THE INSTALLATION MANUAL.

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BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE

NOTE:
A. PROVIDE INDIVIDUAL NEUTRALS FOR EACH CIRCUIT. NO SHARED NEUTRALS ALLOWED.

C - CONDUIT G - GROUND L - LINE OR PHASE N - NEUTRAL

MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM
1	2#12, 1/2"C.	LN	32	3#4, 1" C.	LLL	63	4#1/0, 1#6G., 2" C.	LLLNG
2	2#12, 1#12G., 1/2" C.	LNG	33	3#4, 1#8G., 1" C.	LLNG	64	2#2/0, 1 1/2" C.	LN
3	2#12, 1#12G., 1/2" C.	LLG	34	3#4, 1#8G., 1" C.	LLLG	65	2#2/0, 1#6G., 1 1/2"C.	LNG
4	3#12, 1/2" C.	LLL	35	4#4, 1#8G., 1 1/4" C.	LLLNG	66	2#2/0, 1#6G., 1 1/2" C.	LLG
5	3#12, 1#12G., 1/2" C.	LLNG	36	2#3, 1" C.	LN	67	3#2/0, 1 1/2" C.	LLL
6	3#12, 1#12G., 1/2" C.	LLLG	37	2#3, 1#8G., 1"C.	LNG	68	3#2/0, 1#6G., 2" C.	LLNG
7	4#12, 1#12G., 1/2" C.	LLLNG	38	2#3, 1#8G., 1" C.	LLG	69	3#2/0, 1#6G., 2" C.	LLLG
8	2#10, 1/2"C.	LN	39	3#3, 1" C.	LLL	70	4#2/0, 1#6G., 2" C.	LLLNG
9	2#10, 1#10G., 1/2" C.	LNG	40	3#3, 1#8G., 1 1/4" C.	LLNG	71	2#3/0, 1 1/2" C.	LN
10	2#10, 1#10G., 1/2" C.	LLG	41	3#3, 1#8G., 1 1/4" C.	LLLG	72	2#3/0, 1#4G., 2" C.	LNG
11	3#10, 1/2" C.	LLL	42	4#3, 1#8G., 1 1/4" C.	LLLNG	73	2#3/0, 1#4G., 2" C.	LLG
12	3#10, 1#10G., 1/2" C.	LLNG	43	2#2, 1"C.	LN	74	3#3/0, 2" C.	LLL
13	3#10, 1#10G., 1/2" C.	LLLG	44	2#2, 1#6G., 1" C.	LNG	75	3#3/0, 1#4G., 2" C.	LLNG
14	4#10, 1#10G., 1/2" C.	LLLNG	45	2#2, 1#6G., 1" C.	LLG	76	3#3/0, 1#4G., 2" C.	LLLG
15	2#8, 1/2" C.	LN	46	3#2, 1 1/4" C.	LLL	77	4#3/0, 1#4G., 2 1/2" C.	LLLNG
16	2#8, 1#10G., 3/4" C.	LNG	47	3#2, 1#6G., 1 1/4" C.	LLNG	78	2#4/0, 2" C.	LN
17	2#8, 1#10G., 3/4" C.	LLG	48	3#2, 1#6G., 1 1/4" C.	LLLG	79	2#4/0, 1#4G., 2" C.	LNG
18	3#8, 3/4" C.	LLL	49	4#2, 1#6G., 1 1/4" C.	LLLNG	80	2#4/0, 1#4G., 2" C.	LLG
19	3#8, 1#10G., 3/4" C.	LLNG	50	2#1, 1 1/4" C.	LN	81	3#4/0, 2" C.	LLL
20	3#8, 1#10G., 3/4" C.	LLLG	51	2#1, 1#6G., 1 1/4" C.	LNG	82	3#4/0, 1#4G., 2 1/2" C.	LLNG
21	4#8, 1#10G., 1" C.	LLLNG	52	2#1, 1#6G., 1 1/4" C.	LLG	83	3#4/0, 1#4G., 2 1/2" C.	LLLG
22	2#6, 3/4" C.	LN	53	3#1, 1 1/2" C.	LLL	84	4#4/0, 1#4G., 2 1/2" C.	LLLNG
23	2#6, 1#10G., 3/4" C.	LNG	54	3#1, 1#6G., 1 1/2" C.	LLNG	85	2#250, 3" C.	LN
24	2#6, 1#10G., 3/4" C.	LLG	55	3#1, 1#6G., 1 1/2" C.	LLLG	86	2#250, 1#4G., 3" C.	LNG
25	3#6, 3/4"C.	LLL	56	4#1, 1#6G., 1 1/2" C.	LLLNG	87	2#250, 1#4G., 3" C.	LLG
26	3#6, 1#10G., 3/4" C.	LLNG	57	2#1/0, 1 1/4" C.	LN	88	3#250, 3" C.	LLL
27	3#6, 1#10G., 3/4" C.	LLLG	58	2#1/0, 1#6G., 1 1/2" C.	LNG	89	3#250, 1#4G., 3" C.	LLNG
28	4#6, 1#10G., 1" C.	LLLNG	59	2#1/0, 1#6G., 1 1/2"C.	LLG	90	3#250, 1#4G, 3" C.	LLLG
29	2#4, 3/4" C.	LN	60	3#1/0, 1 1/2" C.	LLL	91	4#250, 1#4G., 3" C.	LLLNG
30	2#4, 1#8G., 1" C.	LNG	61	3#1/0, 1#6G., 2" C.	LLNG			
31	2#4, 1#8G., 1"C.	LLG	62	3#1/0, 1#6G., 2" C.	LLLG			

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ELECTRICAL ABBREVIATION SCHEDULE

A	AMPERES	MECH	MECHANICAL
A/C	AIR CONDITIONING	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AHJ	AUTHORITY HAVING JURISDICTION	MISC	MISCELLANEOUS
AL	ALUMINUM	MLO	MAIN LUG ONLY
AUTO	AUTOMATIC	MSB	MAIN SWITCHBOARD
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
BFF	BELOW FINISHED FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BLDG	BUILDING	NF	NON-FUSED
C	CONDUIT	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NTS	NOT TO SCALE
CKT	CIRCUIT	OC	ON CENTER(S)
COL	COLUMN	OE	OVERHEAD ELECTRIC
CONC	CONCRETE	OT	OVERHEAD TELEPHONE
CONST	CONSTRUCTION	PC	PLUMBING CONTRACTOR
CONTR	CONTRACTOR	PH	PHASE
CTV	CABLE TELEVISION	PNL	PANEL
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
EC	ELECTRICAL CONTRACTOR	RE:	REFERENCE/REFER TO
EF	EXHAUST FAN	RECPT	RECEPTACLE
DN	DOWN	RGS	RIGID GALVANIZED STEEL CONDUIT
ELEC	ELECTRIC/ELECTRICAL	RM	ROOM
EMT	ELECTRICAL METALLIC TUBING	SCH	SCHEDULE
EQUIP	EQUIPMENT	SPD	SURGE PROTECTIVE DEVICE
EX	EXISTING	SPEC	SPECIFICATIONS
FA	FIRE ALARM	TEL	TELEPHONE
FF	FINISHED FLOOR	TTB	TELEPHONE TERMINAL BOARD
FLR	FLOOR/FLOORING	TYP	TYPICAL
G	GROUND	UC	UNDERGROUND CONDUIT
GC	GENERAL CONTRACTOR	UE	UNDERGROUND ELECTRIC
GFI	GROUND FAULT INTERRUPT	UL	UNDERWRITER'S LABORATORIES
HD	HEAVY DUTY	UON	UNLESS OTHERWISE NOTED
HP	HORSEPOWER	UT	UNDERGROUND TELEPHONE
IMC	INTERMEDIATE METAL CONDUIT	V	VOLTS/VOLTAGE
KVA	KILOVOLT-AMPERES	VA	VOLT-AMPERES
KW	KILOWATTS	W	WATTS
LGT	LIGHT/LIGHTING	W/	WITH
MAX	MAXIMUM	W/O	WITHOUT
MC	MECHANICAL CONTRACTOR	WP	WEATHER PROOF
MCB	MAIN CIRCUIT BREAKER	XFMR	TRANSFORMER
MDP	MAIN DISTRIBUTION PANEL		

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SPECIAL SYSTEM SYMBOL SCHEDULE

NOTE:
A. REFERENCE OWNER SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B. THIS IS FOR GENERAL LOCATION ONLY. ALL DEVICES AND CABLING PER OWNER SPECIFICATIONS.
C. ALL DEVICE HEIGHTS ARE REFERENCED TO CENTER OF DEVICE.

SYMBOL	DESCRIPTION	REMARKS
FACP	FIRE ALARM CONTROL PANEL	
FAAP	FIRE ALARM ANNUNCIATOR PANEL	
RVEP	REMOTE VOICE EVACUATION PANEL	
S WP	SPEAKER, WALL MOUNTED WEATHER RESISTANT, 120" AFF U.O.N.	
TV	TELEVISION POWER, 72" AFF U.O.N. OR SPECIFIED BY TECHNOLOGY CONSULTANT/OWNER	
UC	UTILITY CONTROLLER (REFERENCE UTILITY CONTROLLER BLOCK NOTE)	
	CLOCK, SINGLE FACED WALL MOUNTED, 96"± AFF UON	
	CLOCK, DOUBLE FACED WALL MOUNTED, 96"± AFF UON	
CDU	CENTRAL DISPLAY UNIT	
WP	WEATHER PROOF EXTERIOR FIRE ALARM HORN	
	SECURITY KEY PAD, 48" AFF UON	3/4"C TO ABOVE CEILING
	BADGE READER FOR SECURITY SYSTEM, 48" AFF UON	3/4"C TO ABOVE CEILING
	LIGHTING RELAY ZONE OVERIDE CONTROL BUTTON	3/4"C TO ABOVE CEILING
M	MICROPHONE JACK	3/4"C TO ABOVE CEILING
	ROUGH-IN FOR CAMERA (WEATHERPROOF BOX FLUSH WITH EXTERIOR WALL)	1"C TO ABOVE CEILING
	CEILING MOUNTED CAMERA LOCATION (DATA DROP, CAMERA BY OTHERS)	
	INTERCOM PROGRAM PHONE LOCATION	3/4"C TO ABOVE CEILING
	MAG DOOR HOLD OPEN. POWERED BY SPECIAL SYSTEMS	
LD	LOCK DOWN DEVICE	3/4"C TO ABOVE CEILING
D	120V POWER FOR DOOR SECURITY POWER SUPPLY (COORDINATE WITH DOOR MFR)	
HC	120V POWER FOR HANDICAP DOOR POWER SUPPLY (REF MISC EQUIPMENT SCHEDULE)	
B	DOOR BUZZER, CONFIRM LOCATION WITH OWNER.	3/4"C TO ABOVE CEILING
V	INTERCOM VOLUME CONTROL	3/4"C TO ABOVE CEILING
OD	OVERHEAD DOOR POWER	
OC	OVERHEAD DOOR CONTROL LOCATION	
S	INTERCOM SPEAKER	
HD	HAND DRYER POWER (PROVIDE SNAP SWITCH DISCONNECT ABOVE CEILING)	SPECIFIED BY ARCHITECT
DW	DISHWASHER POWER	
CF	CIRCULATING FAN POWER	
	WALL MOUNTED MOTION SENSOR	
F	FIRE SPRINKLER POWER	
BL	MOTORIZED BLINDS	

DEVICE SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.
B. ALL DEVICE PART NUMBERS ARE HUBBELL, UNLESS NOTED OTHERWISE.
C. ALL DEVICE HEIGHTS ARE REFERENCED TO CENTER OF DEVICE.

SYMBOL	DESCRIPTION	PART NUMBER
	SINGLE RECEPTACLE 20A/120V 18" AFF UON	HBL5361W
	DUPLEX RECEPTACLE 20A/120V 18" AFF UON-TAMPER RESISTANT, UON	CR20WHITR
U	DUPLEX RECEPTACLE WITH DUAL USB 20A/120V 18" AFF UON	USB20ACPDW
	DUPLEX RECEPTACLE 20A/120V 18" AFF UON WITH GROUND FAULT INTERRUPTER	GFTRST20W
	SWITCHED DUPLEX RECEPTACLE 20A/120V 18" AFF UON - TOP CONTROLLED	BR20C1WHITR
	FOURPLEX RECEPTACLE 20A/120V 18" AFF UON	(2) CR20WHITR
U	FOURPLEX RECEPTACLE 20A/120V, (1) WITH DUAL USB 18" AFF UON	(1) CR20WHITR,(1) USB20AC5W
	SWITCHED FOURPLEX RECEPTACLE 20A/120V 18" AFF UON - TOP CONTROLLED	(2) BR20C1WHI
	CLOCK RECEPTACLE 120V 96" AFF UON	HBL5325
	SPECIAL PURPOSE RECEPTACLE 18" AFF SEE PLANS FOR DETAILS	
	CEILING MOUNTED DUPLEX RECEPTACLE 20A/120V (FLUSH)	CR20-W
	DUPLEX RECEPTACLE 20A/120V MOUNTED ABOVE COUNTER, HEIGHT SPECIFIED BY ARCHITECT	CR20WHITR
P	DUPLEX RECEPTACLE FOR PROJECTOR	
WP	WEATHER/TAMPER-RESISTANT DUPLEX RECEPTACLE WITH "IN-USE" COVER 20A/120V 18" AFF UON	GFTR20W/ WP26M
	DUPLEX GFI RECEPTACLE 20A/120V MOUNTED ABOVE COUNTER, HEIGHT SPECIFIED BY ARCHITECT	CR20WHITR
S	SAFETY TYPE DUPLEX RECEPTACLE 20A/120V 18" AFF UON	CR20WHITR
	DUPLEX RECEPTACLE, FLOOR MOUTED FLUSH (PROVIDE 1" CONDUIT IN SLAB OR BELOW FLOOR FROM NEAREST WALL TO LOCATION CONFIRMED WITH ARCHITECT.)	CR20WHITR, CFB2G30RCR, CFBS1R6CVR OR FOR POKE THRU, CR20WHITR,S1R4PTFIT S1R4SPDUPLEX, S1R4CVR
	FOURPLEX RECEPTACLE, FLOOR MOUNTED FLUSH (PROVIDE 1" CONDUIT IN SLAB OR BELOW FLOOR FROM NEAREST WALL TO LOCATION CONFIRMED WITH ARCHITECT.)	(2) CR20WHITR, CFB2G30RCR,CFBS1R6CVR OR FOR POKE THRU, (2) CR20WHITR, S1R6PTFIT (2) S1R6SPI,S1R6CVR
	EXISTING DUPLEX RECEPTACLE	
	EXISTING FOURPLEX RECEPTACLE	
	EXISTING 208V RECEPTACLE	
$	SINGLE POLE SWITCH 20A, 48" AFF UON	CS120W
$^D	DIMMER SWITCH, 48" AFF UON, SEE PLAN FOR DETAIL	
$^P	SWITCH WITH PILOT LIGHT, 48" AFF UON	HBL1221PL
$^2	TWO POLE SWITCH 20A, 48" AFF UON	CS1222W
$^T	TIMER SWITCH, 48" AFF UON	INTERMATIC FF60MC
$^F	FAN SWITCH, 48" AFF UON	RF51

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DISTRIBUTION SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.

SYMBOL	DESCRIPTION	REMARKS
	HOMERUN (REFER TO PANEL SCHEDULES FOR CONDUIT/WIRING)	
	CIRCUIT ROUTED THRU CONTACTOR OR RELAY	
— UE —	UNDERGROUND ELECTRIC	
— UC —	UNDERGROUND COMMUNICATION	
— OE —	OVERHEAD ELECTRIC	
— OC —	OVERHEAD COMMUNICATION	
	CIRCUIT INDICATORS (HOT, NEUTRAL, GROUND, SWITCHLEG)	
P	PHOTOCELL	
J	JUNCTION BOX	
J	JUNCTION BOX, FLOOR MOUNTED FLUSH	
J	JUNCTION BOX, WALL MOUNTED - 3/4"C TO ABOVE CEILING	
$^M	MANUAL STARTER WITH THERMAL TRIP	
	DISCONNECT SWITCH, REFER TO DISCONNECT SCHEDULE	
	STARTER	
	COMBINATION STARTER/DISCONNECT SWITCH, REFER TO SCHEDULE	
	POWER AND/OR LIGHTING PANELBOARD, REFER TO PANELBOARD SCHEDULE	
	SWITCHBOARD, REFER TO SWITCHBOARD SCHEDULE	
	TRANSFORMER, REFER TO TRANSFORMER SCHEDULE	

SPECIAL SYSTEMS SCOPE

ACCESS CONTROL SYSTEM
1. **REFERENCE TECHNOLOGY PLANS AND SPECIFICATIONS.**

SECURITY SYSTEM
1. **REFERENCE TECHNOLOGY PLANS AND SPECIFICATIONS.**

TECHNOLOGY SYSTEM
1. **REFERENCE TECHNOLOGY PLANS AND SPECIFICATIONS.**

INTERCOM SYSTEM
1. **REFERENCE TECHNOLOGY PLANS AND SPECIFICATIONS.**

FIRE ALARM SYSTEM
1. **EXTEND EXISTING SYSTEM IN MAIN BUILDING TO THE WEIGHT ROOM BUILDING AND MPAC STRUCTURE. INTERCONNECT TO EXISTING SYSTEM WITH FIBER PER DISTRICT REQUIREMENTS. REFERENCE SPECIFICATIONS.**
2. **DUCT DETECTORS FOR ROOFTOP UNITS ARE TO BE INSTALLED IN THE UNIT. COORDINATE WITH MECHANICAL CONTRACTOR.**

CLASSROOM AUDIO-VIDEO SYSTEM
1. **REFERENCE TECHNOLOGY PLANS AND SPECIFICATIONS.**

MECHANICAL SYSTEMS COMMISSIONING

THIS PROJECT HAS A TOTAL MECHANICAL EQUIPMENT CAPACITY OF 480,000 BTU/H OR MORE THEREFORE COMMISSIONING MUST BE PROVIDED PER THE LATEST STATE ADOPTED ENERGY CODE, 2015 IECC. COORDINATE THE COMMISSIONING SCOPE WITH THE OWNER SELECTED COMMISSIONING AGENT.

LIGHTING CONTROLS SYSTEM COMMISSIONING

LIGHTING CONTROL SYSTEM COMMISSIONING MUST BE PROVIDED PER THE LATEST ADOPTED ENERGY CODE, 2018 IECC, SECTION C408.3. COORDINATE THE COMMISSIONING SCOPE WITH THE OWNER SELECTED COMMISSIONING AGENT.

GENERAL NOTES

A. THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.

B. CONTRACTOR IS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.

C. ALL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY NFPA, BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, NATIONAL ELECTRICAL CODE, ADA, TAS, AND OSHA, AS THEY APPLY TO THIS PROJECT, EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN. THE CONTRACTOR SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT.

D. THE ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE, SIZES OF BREAKERS, FUSES, WIRES, ETC., FOR ALL EQUIPMENT TO BE PROVIDED, INCLUDING BUT NOT LIMITED TO HVAC, LIGHTING, PUMPS, HEATERS, ETC, AND REPORT DISCREPANCIES TO THE ENGINEER/ARCHITECT PRIOR TO INSTALLATION OF CONDUIT. COORDINATE WITH MECHANICAL/ELECTRICAL COORDINATION SHEET PROVIDED BY MECHANICAL CONTRACTOR FOR ACTUAL EQUIPMENT BEING USED.

E. HOMERUNS SHALL BE COORDINATED WITH PANELBOARDS. ALL WIRING AND CONDUIT SHALL BE CONCEALED, EXCEPT IN ELECTRICAL ROOMS AND EXPOSED STRUCTURE AREAS.

F. ALL WIRING SHALL BE FREE OF SHORTS AND GROUNDS. NO WIRING SHALL BE LOADED BEYOND THE PERMITTED AMPACITIES ALLOWED BY CURRENT N.E.C.

G. MINIMUM WIRE/CONDUIT SIZES, EXCEPT FOR CLASS 2 LOW VOLTAGE CIRCUITS, ARE #12 AWG COPPER IN 1/2" CONDUIT. WHERE THE DISTANCE BETWEEN THE SUPPLYING PANEL AND THE FIRST BRANCH CIRCUIT RECEPTACLE OR LIGHT FIXTURE IS MORE THAN 100 FEET, CONTRACTOR REQUIRED TO UP SIZE CONDUCTOR TO ALLOW FOR MAXIMUM OF 3% VOLTAGE DROP FOR ACTUAL ROUTING OF CONDUITS TO DEVICE.

H. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO MAKE A COMPLETE AND WORKABLE SYSTEM.

I. CONFIRM THE EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHTING FIXTURES WITH ARCHITECT BEFORE ROUGH-IN. COORDINATE REQUIRED CLEARANCES ABOVE FIXTURES WITH OTHER TRADES.

J. PROVIDE A TYPED PANEL DIRECTORY FOR ALL PANELBOARDS INDICATING FINAL INSTALLED CONDITION. CIRCUIT LABELING SHALL AGREE WITH EQUIPMENT DESIGNATIONS AND OWNERS FINAL ROOM NUMBERS.

K. LABEL ALL RECEPTACLES AND LIGHT SWITCHES WITH CIRCUIT NUMBER USING AN ELECTRONIC LABELER (BLACK ON CLEAR).

L. THE CONTRACTOR IS TO LAY OUT SERVICE ENTRANCE AND ELECTRIC ROOMS TO SCALE WITH ACTUAL GEAR TO BE INSTALLED TO ENSURE PROPER FIT AND CLEARANCES BEFORE INSTALLATION. COORDINATE ALL SERVICE CLEARANCE REQUIREMENTS WITH LOCAL UTILITY COMPANY. PROVIDE A 1/4" SCALE (MINIMUM) SHOP DRAWING. NOTIFY ARCHITECT/ENGINEERS OF ANY DIMENSIONAL PROBLEMS.

M. COORDINATE AND WIRE ALL DOOR HOLD OPEN DEVICES, AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS. ROUTE 120 VOLT POWER FROM NEAREST AVAILABLE CIRCUIT AS REQUIRED. PROVIDE ALL WIRING NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

N. CONDUITS ROUTED TO ROOF SHALL BE INSTALLED IN SAME ROOF JACK AS MECHANICAL ELEMENTS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ROOF JACK WHERE NO MECHANICAL ELEMENTS EXIST.

O. PROVIDE SLEEVES FOR SPECIAL SYSTEMS ABOVE EACH DOOR INTO A RATED EGRESS CORRIDOR, (1 - 2" AND 3 - 3/4"). FIRE SEAL ENDS AND UNUSED SLEEVES SHALL HAVE A SCREW CAP INSTALLED ON BOTH SIDES. USE THREADED CONDUIT.

P. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE LOCATED AT A HEIGHT SO AS NOT TO BE VISIBLE AFTER INSTALLATION OF EWC. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT BEING PROVIDED. PROTECT WITH GFCI BREAKER.

Q. ALL CONDUITS ROUTED BELOW FINISHED FLOOR SHALL BE RUN BELOW THE GRADE BEAMS. CONDUITS AND MULTIPLE CONDUITS SHALL NOT PENETRATE GRADE BEAMS UNLESS COORDINATED WITH STRUCTURAL ENGINEER. OBTAIN WRITTEN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO BEGINNING WORK.

R. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURE AND BUILDING LINES. COORDINATE FINAL CONDUIT ROUTING PATH WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

S. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL 120 VOLT WIRING AND CONNECTIONS REQUIRED TO FIRE/SMOKE DAMPERS. COORDINATE EXACT LOCATIONS OF DAMPERS WITH MECHANICAL CONTRACTOR AND RELAY REQUIREMENTS WITH FIRE ALARM CONTRACTOR. CONNECT TO NEAREST AVAILABLE UNSWITCHED CIRCUIT UNLESS OTHERWISE INDICATED ON DRAWINGS.

T. ELECTRICAL CONTRACTOR SHALL CONNECT MOTORIZED BACK DRAFT DAMPERS FOR EXHAUST FANS FROM CIRCUIT FEEDING FAN. PROVIDE ALL MATERIAL AND LABOR TO MAKE CONNECTIONS.

U. ELECTRICAL CONTRACTOR TO SEAL ALL PENETRATIONS OF ELECTRICAL WORK IN FIRE AND SMOKE RATED PARTITIONS, CEILINGS, ETC.

V. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTING MEANS AND PROPER FUSING PROTECTION FOR ALL EQUIPMENT PER N.E.C. UNLESS OTHERWISE NOTED.

W. COORDINATE ALL DEVICES IN MILLWORK WITH ARCHITECTURAL MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.

X. SENSOR OPERATED PLUMBING DEVICES: PLUMBING CONTRACTOR TO PROVIDE LOW VOLTAGE TRANSFORMERS FROM MANUFACTURER. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL OTHER MATERIALS AND LABOR FOR COMPLETE INSTALLATION.

Y. SPRAY PAINT JUNCTION BOXES RED FOR FIRE ALARM SYSTEM. ALL OTHER SPECIAL SYSTEM JUNCTION BOXES TO BE PAINTED WHITE.

Z. DO NOT HANG ANY FIXTURES, EQUIPMENT OR CONDUIT FROM ROOF DECK.

AA. LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBERS.

BB. IDENTIFY RECEPTACLE CIRCUITS IN PANELBOARDS TO INDICATE FINAL ROOM NUMBERS. VERIFY FINAL ROOM NUMBERS PRIOR TO TYPING PANELBOARD SCHEDULES.

CC. MECHANICALLY FASTEN ALL LABELS TO EQUIPMENT.

DD. ELECTRICAL CONTRACTOR TO OBTAIN "MECH/ELEC COORDINATION SHEET" FILLED OUT FROM MECHANICAL CONTRACTOR. THIS SHEET IS TO BE INCLUDED WITH ELECTRICAL GEAR/PANELBOARD SUBMITTAL. SUBMITTAL WILL NOT BE CHECKED WITHOUT THIS FORM INCLUDED.

EE. ELECTRICAL CONTRACTOR IS TO PROVIDE ROUGH-IN FOR ALL MECHANICAL CONTROL DEVICES IN WALLS AND PENETRATIONS FOR CONTROL WIRES TO EXTERIOR UNITS. COORDINATE ALL LOCATIONS WITH MECHANICAL CONTRACTOR AND MECHANICAL SHEETS.

FF. DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.

GG. ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.

HH. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE 120 VOLT, WEATHERPROOF GFCI DUPLEX RECEPTACLE WITHIN 25 FEET OF ALL PIECES OF NEW OR REPLACEMENT MECHANICAL EQUIPMENT LOCATED ON ROOF, MEZZANINE OR ON THE GROUND. CONNECT TO NEAREST AVAILABLE UNSWITCHED 120 VOLT 20 AMP CIRCUIT WITH LESS THAN 6 RECEPTACLES OR RUN TO NEAREST PANELBOARD AND PROVIDE HOMERUN WITH NEW 20 AMP CIRCUIT BREAKER.

2

II. ALL JUNCTION BOXES MOUNTED ABOVE CEILING MUST BE NO MORE THAN 36" ABOVE CEILING GRID.

Addendum No.3
Revision / 2
Date 05/14/25

Project:
JOHNSON HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
BUDA, TX

STATE OF TEXAS
B.J. HENDRIX
94813
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.J. HENDRIX, P.E. NO: 94813 ON: 04/22/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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SCHEDULES, NOTES, AND LEGENDS - ELECTRICAL

PACKAGE VOLUME
Job No. 1954-07-01
Drawn By: PP, LMM
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ESC-01-NLIGHT

RTU ELECTRICAL CONNECTION SCHEDULE

480 / 3	NATURAL [PROPANE] GAS (UNIT TYPES)					MINIMUM WIRE / CONDUIT SIZES		
UNIT TYPE	VOLTAGE / PHASE	KVA	MCA	FUSED DISCONNECT SIZE (NEMA 3R)	MOCP	LENGTH UP TO (FT)	LENGTH UP TO (FT)	LENGTH UP TO (FT)
						125	250	375
G2 - 208/1	208/1	3.2	19	30	25	10	17	24
G2.5 - 480/3	480/3	6.1	9	30	15	6	6	6
G3 - 480/3	480/3	6.1	9	30	15	6	6	6
G4 - 480/3	480/3	8.9	13	30	15	6	6	6
G5 - 480/3	480/3	9.5	14	30	15	6	6	13
G6 - 480/3	480/3	10.2	15	30	20	6	6	13
G7 - 480/3	480/3	15.7	23	30	25	13	13	20
G8 - 480/3	480/3	15.7	23	30	25	13	13	20
G10 - 480/3	480/3	17.0	25	30	30	13	13	20
G12 - 480/3	480/3	20.4	30	60	40	20	20	20
G13 - 480/3	480/3	23.2	34	60	45	20	20	20
G15 - 480/3	480/3	22.5	33	60	45	20	20	20
G17 - 480/3	480/3	28.6	42	60	50	20	20	27
G20 - 480/3	480/3	33.4	49	60	50	20	20	27
G25 - 480/3	480/3	44.3	65	100	70	34	34	34

UNIT MARK	UNIT TYPE
RTU-B1	G17
RTU-B2	G17

UNIT TYPE BREAKDOWN:
G = GAS HEAT RTU, E = ELECTRIC HEAT RTU

STANDARD NOTES:
A. VERIFY FINAL FUSE SIZE WITH ACTUAL EQUIPMENT PROVIDED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING SWITCHGEAR.
B. IN THE EVENT THAT THERE IS A DIFFERENCE BETWEEN MINIMUM WIRE/CONDUIT SIZE ON THIS SCHEDULE AND ON THE PANEL SCHEDULE, BID THE MORE STRINGENT OF THE TWO.
C. SOME UNITS SHOWN ON THE MASTER SCHEDULE(S) MAY NOT BE USED ON THIS JOB.
D. REFERENCE BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE/CONDUIT DEFINITION.

ESC-17

DISCONNECT SWITCH SCHEDULE

REMARKS:
A. THIS SCHEDULE IS NOT A COMPREHENSIVE DISCONNECT SCHEDULE. REFERENCE OTHER ELECTRICAL CONNECTION SCHEDULES FOR ADDITIONAL DISCONNECT REQUIREMENTS.
B. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN.
C. WHEN THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, PROVIDE AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240-21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. THE PANEL BEING FED MAY BE CHANGED TO MAIN LUG ONLY.
D. PROVIDE LUG KITS AND/OR WIRING GUTTERS FOR PANELS WITH OVERSIZED CONDUCTORS DUE TO VOLTAGE DROP AND/OR DISTANCE. MAKE CONNECTIONS IN ACCORDANCE WITH THE N.E.C.
E. PROVIDE SHOP DRAWINGS OF ALL ELECTRIC ROOMS INDICATING ALL PANEL, TRANSFORMER AND DISCONNECT LOCATIONS. ELECTRICAL EQUIPMENT MAY SHIFT IN LOCATION TO INSURE PROPER CLEARANCES.
F. PROVIDE DISCONNECTING MEANS FOR ALL EQUIPMENT PER N.E.C.
G. DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.
H. ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
**** U.O.N. FOR ALL PANELS SUBFED FROM TRANSFORMERS THAT REQUIRE DISCONNECT, REFERENCE TRANSFORMER SCHEDULE SECONDARY BREAKER SIZE FOR ALL ENCLOSURE TYPE AND DISCONNECT/FUSE SIZING INFORMATION.**

VOLTAGE RATING	POLES	AMP RATING	ENCLOSURE	FUSE SIZE	SIN	MOTOR STARTER REQ	Load Name
240	2	20.0 A	N1	20.0 A			AHU-B1
240	2	60.0 A	N1	40.0 A			WH-B1
600	1	30.0 A	N1	20.0 A			EUH-B1
600	3	30.0 A	N3R	20.0 A			CU-B1

NLIGHT - DEVICE SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.
B. ALL DEVICE PART NUMBERS ARE **NLIGHT** UNLESS OTHERWISE NOTED.
C. THESE DEVICES SHOULD BE USED IN ALL AREAS TO BE CONTROLLED BY NLIGHT.
D. MOTION SENSOR: WHERE MOTION SENSORS ARE SHOWN ON THE PLANS. THAT INDICATES AREA SHOULD BE COVERED IN FULL BY MOTION SENSORS. IT IS UP TO MOTION SENSOR PROVIDER TO PROVIDE APPROPRIATE QUANTITY, LAYOUT, AND TYPE OF MOTION SENSORS FOR COMPLETE COVERAGE. PROVIDE SHOP DRAWING AT SUBMITTAL PHASE.
E. PHOTOCELL: WHERE PHOTOCELLS ARE SHOWN ON PLANS OR IN TYPICAL DETAILS, IE:CLASSROOMS, PHOTOCELL LOCATION AND QUANTITY SHOULD BE DETERMINED BY PHOTOCELL PROVIDER. PHOTOCELLS ARE INTENDED TO DIM LIGHTS IN DAYLIGHT ZONES AS INDICATED BY IECC 2018.
F. IF MULTIPLE ZONE CONTROL IS INDICATED FOR A SPACE AND THOSE ZONES ARE NOT CLEAR TO CONTRACTOR, THE CONTRACTOR IS TO MAKE BEST ASSUMPTION IN SHOP DRAWING PHASE AND NOTE AREAS IN QUESTION. ENGINEER WILL REVIEW AND MAKE ANY ADJUSTMENTS TO ZONES AT THAT TIME.
G. MANUFACTURER TO PROVIDE A COMPLETE SET OF SHOP DRAWINGS INDICATING ALL ASPECTS OF LIGHTING CONTROL AT A MINIMUM OF 1/8" = 1' SCALE WITH CLEAR DESCRIPTIONS AND LEGENDS FOR SYMBOLS.
H. BASIC COMPONENTS ARE CALLED FOR HERE, IT IS EXPECTED THAT MANUFACTURER PROVIDES ALL COMPONENTS FOR A COMPLETE WORKABLE SYSTEM.
I. FACTORY START-UP IS REQUIRED FOR ALL NLIGHT SPACES.
J. CONTRACTOR SHOULD SEND COMPLETE SET OF ELECTRICAL PLANS TO NLIGHT FACTORY REP TO ENSURE A COMPLETE BID.
K. CONTRACTOR TO ASSUME ALL DEVICES INTER-CONNECTED WITH CAT-5 CABLE. PROVIDE ALL REQUIRED CABLING BETWEEN DEVICES. CABLE COLOR IS TO BE COORDINATED WITH THE TECHNOLOGY CABLING TO BE A DIFFERENT COLOR. NO ZIP TIES MAY BE USED FOR SECURING CABLE. ONLY VECRO TIES MAY BE USED

SYMBOL	DESCRIPTION	REMARKS
S^{ET}	DUAL TECHNOLOGY WALL MOUNT MOTION AND DIMMING	nWSXA-PDT-LV-DX
S^{CT}	ONE ZONE CONTROLLER, ON/OFF AND DIMMING	nPODMA-DX
S^{C2}	TWO ZONE CONTROLLER, ON/OFF AND DIMMING	nPODMA-2P-DX
S^{C4}	FOUR ZONE CONTROLLER, 4 PRESET TOGGLE BUTTONS	nPODMA-4S-DX
S^{K}	ONE ZONE KEYED CONTROLLER, ON/OFF AND DIMMING	nPOD-KEY
S^{CT}	COLOR SCENE CONTROLLER	nPODMA-4S-EDUTW
M_{DT}	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nCM-PDT-9
M_{DT}	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nCM-PDT-10
M_{DT}	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nWV-PDT-16
Ⓟ	PHOTOCELL	nCM-ADCX

NLIGHT INTERIOR LIGHTING SCHEDULE

GENERAL NOTES:

PROVIDE LIGHTING CONTROL AS REQUIRED PER THE CURRENT ADOPTED EDITION OF IECC - 2015/2018.

2 **POWER PACKS**
FOR FIXTURES THAT ARE NOT NLIGHT COMPATIBLE, PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS AND SHALL BE INSTALLED ABOVE THE DOOR OF THE ROOM BEING SERVED.
AREAS WITH HIGH CEILINGS (15FT OR HIGHER), PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS. LOCATE POWER PACKS IN ACCESSIBLE LOCATION FROM LIGHTING PANEL SERVING CIRCUITS.

WHEN POWER PACKS ARE PROVIDED. CONTRACTOR MUST PROVIDE 0-10V DIMMING WIRES FROM POWER PACK TO FIXTURE FOR CONTROL IN LIEU OF CAT5 CABLE.

NLIGHT MANUFACTURER TO PROVIDE NLIGHT ENABLED FIXTURES OR POWER PACKS TO ACHIEVE ZONING SHOWN ON PLANS FOR SWITCHING AND DAYLIGHT ZONES TO PROVIDE BEST VALUE TO THE PROJECT.

MOTION SENSORS
PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR ENTIRE BUILDING, EXCEPT ELECTRIC ROOMS, AND AS WHEN NOTED EXCEPTION SHOWN ON PLANS. PROVIDE DUAL TECHNOLOGY MOTION SENSORS IN EVERY ROOM AS REQUIRED BY IECC. ASSUME CEILING MOUNT UNLESS WALL MOUNT SHOWN.

VACANCY SENSORS
PROVIDE COMPLETE DUAL TECHNOLOGY VACANCY SENSOR COVERAGE PER IECC IN ALL AREAS EXCEPT EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.

OCCUPANCY SENSORS
PROVIDE COMPLETE DUAL TECHNOLOGY OCCUPANCY SENSOR COVERAGE PER IECC IN ALL EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.

CONTROL STATION
ALL ROOMS SHALL HAVE A CONTROL STATION FOR CONTROL OF LIGHTS IN ROOM. IF NO CONTROL STATION IS SHOWN, ASSUME A TWO ZONE CONTROLLER FOR ROOMS LARGER THAN 9' X 9' AND A WALL MOUNT DUAL TECHNOLOGY CONTROLLER FOR ROOMS SMALLER THAN 9' X 9'.

PROGRAMMING MODULE
PROVIDE (2) NIO 8T BLUETOOTH PROGRAMMING MODULES WITH PROJECT AND PROVIDE TO OWNER FOR OWNER'S FUTURE USE. STARTUP TECHNICIAN SHALL PROVIDE OWNER TRAINING ON USE OF MODULE.

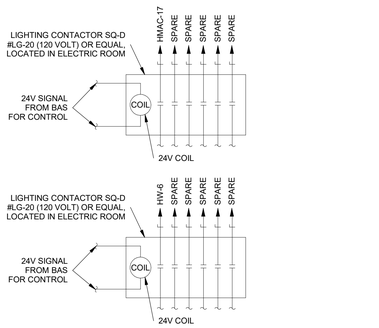
SPACE TYPE DESCRIPTION:

WEIGHT ROOM

A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.
B. TWO ZONE CONTROL. ZONE 'a' . ZONE 'b' AS SHOWN IN PLANS AND AS DESCRIBED BELOW:
1. ROOMS WITH UPLIGHTS AND DOWNLIGHTS, ZONE 'a' - DOWNLIGHTS, ZONE 'b' - UPLIGHTS.
C. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MINOR MOVEMENTS. MANUAL ON / AUTO OFF AFTER 20 MINUTES. SHOP DRAWING REQUIRED.
D. PROVIDE PHOTOCELL AND CONTROL LIGHTS IN DAYLIGHT ZONE PER IECC AS SHOWN ON PLANS.

MULTIPURPOSE ATHLETIC COMPLEX (MPAC)
A. PROVIDE (3) SENSORSWITCH PTSA-720-WH-LT PROGRAMMABLE TIMER SWITCHES FOR LIGHTING CONTROL OF (3) LIGHTING ZONES. PROVIDE WEATHERPROOF COVER FOR EACH SWITCH. TIMER CONTROL TO BE ONLY PUBLICLY AVAILABLE CONTROL.
B. PROVIDE (3) 12-POLE LIGHTING CONTACTORS FOR LIGHTING CIRCUIT ON/OFF CONTROL THROUGH EACH PTSA TIME SWITCH. LOCATE LIGHTING CONTACTOR ENCLOSURE ON SERVICE RACK.
C. PROGRAM PTSA SWITCHES FOR BEEP WARNING, 4 HOUR MAX ALLOWABLE TIME AND 60 MINUTE DEFAULT ON TIME. BLINK WARNING NOT TO BE USED.
D. PROVIDE 'NPS-80-EZ-LT' DIMMING ONLY POWER PACKS (NO RELAY, EACH CONTROLLING DIMMING FOR MAX 20 FIXTURES) IN SUFFICIENT QUANTITY FOR THE SPECIFIED LIGHT QUANTITY. PROVIDE FOUR BUTTON SCENE CONTROLLER ('NPODMA-4S-LT' PROGRAMMED FOR 70%, 80%, 90%, 100% DIMMING LEVEL PRESETS FOR OVERALL FACILITY. ON/OFF ZONES NOT TO BE DIMMED INDEPENDENTLY) AND LOCATED ADJACENT TO PTSA TIMER SWITCH IN A LOCKABLE NEMA 3R ENCLOSURE CONECTED TO 0-10V DIMMING WIRES FOR FIXTURES TO ALLOW OWNER TO SET DESIRED PRESET LIGHTING LEVEL. DIMMING CONTROL IS INTENDED TO BE ONLY SET BY DISTRICT PERSONNEL UPON STARTUP OF FACILITY AND ONLY ADJUSTED AS NEEDED BY OWNER. 'NPS-80-EZ-LT' SHALL BE WIRED TO CONSTANT HOT POWER SOURCE, 120V OR 277V.

SINGLE ZONE ROOMS
A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.
B. ONE OVERALL ZONE TO CONTROL ALL LIGHTS IN ROOM.
C. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MINOR MOVEMENTS. MANUAL ON / AUTO OFF AFTER 20 MINUTES. SHOP DRAWING REQUIRED.
D. PROVIDE PLUG LOAD POWER PACK IN ACCESSIBLE LOCATION FOR EXHAUST FAN CONTROL IN SINGLE RESTROOMS.



LIGHTING CONTACTOR DETAIL

SCALE: NONE

EDE-11-BAS

LIGHT FIXTURE SCHEDULE

GENERAL NOTES:

A. CONFIRM CEILING TYPE AND CONSTRUCTION PRIOR TO ORDERING LIGHT FIXTURE. PROVIDE FLANGE KIT FOR PROPER INSTALLATION OF LAY-IN FIXTURE IN GYPSUM CEILING. PROVIDE FIXTURE TYPE 'HZ' IN LIEU OF FIXTURE TYP 'AZ' IN ROOMS WITH NO CEILING. CHAIN HANG AT 10' A.F.F.
B. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
C. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURE.
D. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING LIGHT FIXTURES.
E. 'E' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT. LIGHT FIXTURE SHALL BE SWITCHED, BATTERY PACK SHALL BE UNSWITCHED. BATTERY PACKS FOR EXTERIOR FIXTURES SHALL BE COLD WEATHER RATED.
F. 'N' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT. LIGHT FIXTURE AND BATTERY PACK SHALL BE UNSWITCHED.
G. FIXTURES SHALL BE PROVIDED WITH A DIMMING DRIVER.
H. CONNECT ALL EXIT LIGHTING TO THE NEAREST UNSWITCHED CIRCUIT OR THE NEAREST EMERGENCY CIRCUIT.
I. REFERENCE 'NLIGHT DEVICE SYMBOL SCHEDULE' AND 'NLIGHT INTERIOR LIGHTING SCHEDULE'.
J. ELECTRICAL CONTRACTOR SHALL CONFIRM ALL FIXTURE DRIVER VOLTAGE RATINGS MATCH THE PROJECT ELECTRICAL POWER SYSTEM VOLTAGE AND LIGHTING CIRCUIT VOLTAGE PRIOR TO SUBMITTAL.
(*) PROVIDE UNIT PRICE FOR THIS FIXTURE. INCLUDE MATERIAL AND LABOR TO BE ADDED AT ANY TIME DURING THE PROJECT.

MARK	MANUFACTURER	MANUFACTURER'S CATALOG NUMBER	LUMENS	VOLTS	WATTS	DESCRIPTION
A3	LITHONIA	CPX 2x4 5000LM 80CRI 35K SWL MIN1 ZT MVOLT	5069	277 V	40 W	LED PANEL 2 x 4 LAY IN FIXTURE, WHITE FINISH. 1%DIMMING, GRID CLG
A4	LITHONIA	CPX 2x4 6000LM 80CRI 35K SWL MIN1 ZT MVOLT	5983	277 V	42 W	LED PANEL 2 x 4 LAY IN FIXTURE, WHITE FINISH. 1%DIMMING, GRID CLG
F2	FINELITE	HP-X-R-D-XX-H-835-F-277-SC-FC-1%-XX	802/FT	277 V	26 W	2.5" RECESSED LINEAR, HIGH OUTPUT LED. VERIFY TRIM/LOCATION/LENGTH WITH ARCHITECTS RCP. 1% DIMMING
F5	FINELITE	HPX-P-ID-XX-S-H-835-TG-F-277-DC-FC-1%-FA50-XX-FE-SW	1213/FT	277 V	40 W	(OPEN/HARD CEILING) 2.5" INDIRECT/DIRECT LINEAR PENDANT. STANDARD UP/HIGH DOWN. PROVIDE 150" MOUNTING AIRCRAFT CABLE, COORDINATE LONGER IF REQUIRED. TOP GLOW LENS. VERIFY TRIM/LOCATION/LENGTH WITH ARCHITECTS RCP. 1% DIMMING. CONTROL UPLIGHT SEPARATE FROM DOWNLIGHT.
G1	LITHONIA	WL2 18L MVOLT GZ1 LP835	1796	277 V	18 W	2' SURFACE MOUNT WRAP AROUND LED. MOUNT 6" ABOVE MIRROR, OR 8' ABOVE STAIRS DEPENDING ON APPLICATION. 1% DIM, NLIGHT
H2	LITHONIA	CLX-L48-5000LM-SEF-FDL-MVOLT-EZ1-35K-80CRI-WH	4801	277 V	32 W	LED STRIP FIXTURE. CHAIN HANG, AIRCRAFT CABLE OR SURFACE MOUNT DEPENDING ON APPLICATION. PROVIDE THCLX BRACKET WHEN SURFACE MOUNTED. TYPICAL MOUNTING HEIGHT APPROX 8'-12'. 1% DIMMING, NLIGHT
S1	LITHONIA	RSX2-LED-P4-30K-R3-XVOLT-SPA-NLTAIR2-PIRH N-FINISH (pole) WILL BRANDS VS-SSSA-25'-50-50-11-AB-FP-C-D1	25002	480 V	187 W	POLE MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH NLIGHTAIR2 FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. FINISH TO BE SELECTED BY ARCHITECT. POLE IS STRAIGHT STEEL, DRILLED FOR FIXTURE MOUNTING AND BASE COVER. FINISH TO MATCH FIXTURE.
S2	LITHONIA	RSX2-LED-P4-30K-R5-XVOLT-SPA-NLTAIR2-PIRH N-FINISH (pole) WILL BRANDS VS-SSSA-25'-50-50-11-AB-FP-C-D2	2x25669	480 V	374 W	POLE MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH NLIGHTAIR2 FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. FINISH TO BE SELECTED BY ARCHITECT. POLE IS STRAIGHT STEEL, DRILLED FOR FIXTURE MOUNTING AND BASE COVER. FINISH TO MATCH FIXTURE.
S3	LITHONIA	RSX4-LED-P4-30K-R3-XVOLT-SPA-NLTAIR2-PIRH N-FINISH (pole) EXISTING	2x55,426	480 V	862 W	POLE MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH NLIGHTAIR2 FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. FINISH TO BE SELECTED BY ARCHITECT. POLE IS STRAIGHT STEEL, DRILLED FOR FIXTURE MOUNTING AND BASE COVER. FINISH TO MATCH FIXTURE.
T1	LITHONIA	WDGE3 LED P1 40K 70CRI R3 MVOLT NLTAIR2 PIR DDBXD	7524	277 V	52 W	ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FULL CUT-OFF, HIGH EFFICIENCY DRIVER WITH NLIGHTAIR2 SENSORS FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. DARK BRONZE FINISH. APPROX. 12-14' AFF. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL. FIXTURE TO BE SECURELY MOUNTED TO A STRUCTURAL SURFACE.
T3	LITHONIA	WDGE3-LED-P4-3K-70CRI-R3-MVOLT-NLIGHTAIR 2-PIR-DDBXD	11194	277 V	88 W	ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FULL CUT-OFF, HIGH EFFICIENCY DRIVER WITH NLIGHTAIR2 SENSORS FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. DARK BRONZE FINISH. APPROX. 12-14' AFF. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL. FIXTURE TO BE SECURELY MOUNTED TO A STRUCTURAL SURFACE.
T5	LITHONIA	WDGE2-LED-P3SW-40K-80CRI-VW-MVOLT-NLIGH TAIR2-PIR-DDBXD	3,000L	277 V	23 W	ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FULL CUT-OFF VISUAL COMFORT LENS, HIGH EFFICIENCY DRIVER WITH NLIGHTAIR2 SENSORS FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. DARK BRONZE FINISH. APPROX. 8-10' AFF. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL. FIXTURE TO BE SECURELY MOUNTED TO A STRUCTURAL SURFACE.
U8	LUX DYNAMICS	L-6-D-A-840-2-U10-CP-B-3/10-AFH-UM4	65668	277 V	465 W	30" X 25" HIGH BAY LED, WITH 10% DIMMING. WHITE ACRYLIC DIFFUSE LENS AND STANDARD ALUMINUM FINISH, USE UNISTRUT TO SPAN JOIST OR MOUNT TO BOTTOM OF JOIST DEPENDING ON LOCATION. PROVIDE NLIGHT POWER PACK AS REQUIRED TO SUIT ZONING ON PLANS.
X1	BEGHELLI	LC1-E-SA-LR-1-B-AL	NA	277 V	1 W	LED SINGLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK.
X6	LITHONIA	LV-S-AB-1-R-120/277 -UM-ELN-CW	INCLUDED	277 V	5 W	LED SINGLE FACE EXTREME EXIT SIGN WITH DIE CAST ALUMINUM CONSTRUCTION FOR HIGH ABUSE AREAS. NEMA 4X WET LOCATION RATED.
Y1	BEGHELLI	EPE	154	277 V	3 W	EMERGENCY EGRESS FIXTURE WITH POLYCARBONATE HOUSING, EMERGENCY BATTERY PACK AND AMMETER. WHITE FINISH. WALL MT APPROX 9' AFF. CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT.

CEILING FANS (CF)

CEILING FAN (CF-5):
PROVIDE 'BAFCON' FAN CONTROLLER FOR SINGLE LOCATION CONTROL OF ALL FANS IN SPACE.
PROVIDE CAT5 CABLE DAISY CHAINED FROM CONTROLLER TO ALL FANS.

MARK NO.	STOCK/ MODEL NUMBER	MAX RPM	HP	VOLT/PH/AMPS	BLADE DIAMETER	WEIGHT
CF-5	BAF BASIC 6	110	1.5	208/3/15	14'-0"	192

5/14/2025 9:37:00 AM
Autodesk Docs://HAYS CISD - LEHMAN, JOHNSON HS ADD RENO 2025/Hays-Johnson HS Addition 2025_MEP23.rvt

Addendum No.3
Date 05/14/25
Revision / 2

Project:
JOHNSON HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
BUDA, TX

STATE OF TEXAS
R.J. HENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER
ON 04/22/2025

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY R.J. HENDRIX P.E. NO 94813 ON 04/22/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

MEP/ENERGY CONSULTANTS
HENDRIX CONSULTING ENGINEERS
COMMISSIONING + FIELD INVESTIGATIONS

F - 4095 ©
HCE job no.: 24-033

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SCHEDULES - ELECTRICAL

PACKAGE VOLUME

Job No. 1954-07-01
Drawn By: PP, LMM
Date: 04/22/2025
Sheet No. ISSUE FOR BID
E0.10

CIRCUIT BREAKER PANELBOARD: HMAC

JOHNSON HIGH SCHOOL

LOCATION:
MOUNTING: SURFACE NEMA 3R
MAIN DEVICE: 225.0 A MAIN CB
BUS AMPS: 225 AMPS
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
SPECIAL:

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)

(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A kVA		B kVA		C kVA		P	BKR	Wire/Conduit	Load Name	CKT
1	LIGHTING	9	20 A	1	2.3	2.3					1	20 A	9	LIGHTING	2
3	LIGHTING	9	20 A	1			2.3	2.3			1	20 A	9	LIGHTING	4
5	LIGHTING	9	20 A	1					2.3	2.3	1	20 A	9	LIGHTING	6
7	LIGHTING	9	20 A	1	2.3	2.3					1	20 A	9	LIGHTING	8
9	LIGHTING	9	20 A	1			2.3	2.3			1	20 A	9	LIGHTING	10
11	LIGHTING	9	20 A	1					2.3	2.3	1	20 A	9	LIGHTING	12
13	LIGHTING	9	20 A	1	2.3	2.3					1	20 A	9	LIGHTING	14
15	LIGHTING	9	20 A	1			2.3	2.3			1	20 A	9	LIGHTING	16
17	LIGHTING	9	20 A	1					1.8	2.8	1	20 A	9	LIGHTING	18
19	LIGHTING	9	20 A	1	2.8	2.8					1	20 A	9	LIGHTING	20
21	LIGHTING	9	20 A	1			2.8	0.0			1	20 A	--	SPARE	22
23	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	24
25	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	26
27	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	28
29	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	30
31					0.0	--					1	--	--	SPACE	32
33	SPARE	--	70 A	3			0.0	--			1	--	--	SPACE	34
35									0.0	--	1	--	--	SPACE	36
37					17.7	0.0									38
39	T/LMAC	(b)	125 A	3			16.1	0.0			3	60 A	---	SPD	40
41									16.1	0.0					42
			TOTAL LOAD:		37 kVA		33 kVA		30 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	41.6 kVA	62.01%	25.8 kVA		
LITES	50.5 kVA	125.00%	63.2 kVA	CONNECTED LOAD:	99.3 kVA
SPEC	8.3 kVA	100.00%	8.3 kVA	ESTIMATED DEMAND:	96.3 kVA
				EST. DEMAND CURRENT:	115.8 A

NOTES:

CIRCUIT BREAKER PANELBOARD: LMAC

JOHNSON HIGH SCHOOL

LOCATION:
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 225.0 A MAIN CB
BUS AMPS: 225 AMPS
VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
SPECIAL:

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)

(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A kVA		B kVA		C kVA		P	BKR	Wire/Conduit	Load Name	CKT
1	RECEPTACLES	2	20 A	1	1.9	1.9					1	20 A	2	RECEPTACLES	2
3	RECEPTACLES	2	20 A	1			0.5	1.9			1	20 A	2	RECEPTACLES	4
5	RECEPTACLES	2	20 A	1					0.7	1.9	1	20 A	2	RECEPTACLES	6
7	RECEPTACLES	2	20 A	1	1.9	1.9					1	20 A	2	RECEPTACLES	8
9	RECEPTACLES	2	20 A	1			1.9	1.9			1	20 A	2	RECEPTACLES	10
11	RECEPTACLES	2	20 A	1					1.9	1.9	1	20 A	2	RECEPTACLES	12
13	RECEPTACLES	2	20 A	1	1.9	1.9					1	20 A	2	RECEPTACLES	14
15	RECEPTACLES	2	20 A	1			1.9	0.7			1	20 A	2	RECEPTACLES	16
17	RECEPTACLES	2	20 A	1					1.9	0.5	1	20 A	2	RECEPTACLES	18
19	RECEPTACLES	2	20 A	1	1.9	1.9					1	20 A	2	RECEPTACLES	20
21	RECEPTACLES	2	20 A	1			1.9	1.9			1	20 A	2	RECEPTACLES	22
23	RECEPTACLES	2	20 A	1					1.9	1.9	1	20 A	2	RECEPTACLES	24
25	RECEPTACLES	2	20 A	1	1.9	0.5					1	20 A	2	RECEPTACLES	26
27	SPORTS NETTING	2	20 A	1			1.7	1.7			1	20 A	2	SPORTS NETTING	28
29	SPORTS NETTING	2	20 A	1					1.7	1.7	1	20 A	2	SPORTS NETTING	30
31	SPORTS NETTING	2	20 A	1	1.7	0.0					1	20 A	2	SPARE	32
33	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	34
35	SPARE	--	20 A	1	0.0	0.0			0.0	0.0	1	20 A	--	SPARE	36
37	SPARE	--	20 A	1											38
39	SPARE	--	20 A	1			0.0	0.0			3	60 A	---	SPD	40
41	SPARE	--	20 A	1					0.0	0.0					42
			TOTAL LOAD:		18 kVA		16 kVA		16 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	41.6 kVA	62.01%	25.8 kVA		
SPEC	8.3 kVA	100.00%	8.3 kVA	CONNECTED LOAD:	49.9 kVA
				ESTIMATED DEMAND:	34.1 kVA
				EST. DEMAND CURRENT:	94.7 A

NOTES:

CIRCUIT BREAKER PANELBOARD: LW

JOHNSON HIGH SCHOOL

LOCATION: ELEC B111
MOUNTING: SURFACE NEMA 3R
MAIN DEVICE: 225.0 A MAIN CB
BUS AMPS: 225 AMPS
VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
SPECIAL:

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)

(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A		B		C		P	BKR	Wire/Conduit	Load Name	CKT
1	RECEPTACLES	2	20 A	1	0.9	0.9					1	20 A	2	RECEPTACLES	2
3	FACP	2	20 A	1			1.0	1.0			1	20 A	2	VENDING	4
5	VENDING	2	20 A	1					1.0	1.0	1	20 A	2	VENDING	6
7	RECEPTACLES	2	20 A	1	1.1	1.5					1	20 A	2	OVERHEAD DOOR POWER	8
9	RECEPTACLES	2	20 A	1			0.9	1.5			1	20 A	2	OVERHEAD DOOR POWER	10
11	RECEPTACLES	2	20 A	1					0.9	0.9	1	20 A	2	RECEPTACLES	12
13	RECEPTACLES	2	20 A	1	0.9	1.1					1	20 A	2	RECEPTACLES	14
15	RECEPTACLES	2	20 A	1			0.4	0.4			1	20 A	2	RECEPTACLES	16
17	RECEPTACLES	2	20 A	1					0.4	1.5	1	20 A	2, (f)	EWC	18
19	EWC	2, (f)	20 A	1	1.5	1.5					1	20 A	2	FIRE PUMP	20
21	RECEPTACLES	2	20 A	1			0.7	1.5			1	20 A	2	OVERHEAD DOOR POWER	22
23	OVERHEAD DOOR POWER	2	20 A	1					1.5	0.9	1	20 A	2	RECEPTACLES	24
25	RECEPTACLES	2	20 A	1	0.5	0.9					1	20 A	2	RECEPTACLES	26
27	AV POWER	2	20 A	1			1.0	1.0			1	20 A	2	AV POWER	28
29	ICE MAKER	2	20 A	1					1.5	1.0	1	20 A	2	REFRIGERATOR	30
31	RECEPTACLES	2	20 A	1	0.2	0.2					1	20 A	2	RECEPTACLES	32
33	RECEPTACLES	2	20 A	1			0.2	1.0			1	20 A	2	MERCHANDISER	34
35									1.8	1.8					36
37	CF-5	7	20 A	3	1.8	1.8					3	20 A	7	CF-5	38
39							1.8	1.8							40
41	RECEPTACLES	2	20 A	1					0.5	0.5	1	20 A	2	RECEPTACLES	42
43					1.8	1.1					1	20 A	2	ROOF RECEPTACLES	44
45	CF-5	7	20 A	3			1.8	0.4			1	20 A	2	EF-B1, B2	46
47									1.8	0.6	1	20 A	2	EF-B3	48
49	IDF RECEPTACLES	2	20 A	1	1.0	1.0					1	20 A	2	IDF RECEPTACLES	50
51	IDF RECEPTACLES	2	20 A	1			0.4	1.0			1	20 A	2	IDF RECEPTACLES	52
53	IDF RECEPTACLES	2	20 A	1					1.0	1.0	1	20 A	2	IDF RECEPTACLES	54
55	FUTURE IDF POWER	2	20 A	1	0.5	0.5					1	20 A	2	FUTURE IDF POWER	56
57							3.0	0.3			1	20 A	2	HWRP-B1	58
59	WH-B1	17	40 A	2					3.0	0.7	1	20 A	2	RECEPTACLES	60
61	RECEPTACLES	2	20 A	1	0.7	0.5									62
63	RECEPTACLES	2	20 A	1			1.0	0.5			2	20 A	5	AHU-B1	64
65	RECEPTACLES	2	20 A	1					1.0	1.5	1	20 A	2	OVERHEAD DOOR POWER	66
67	OVERHEAD DOOR POWER	2	20 A	1	1.5	1.5					1	20 A	2	OVERHEAD DOOR POWER	68
69	FUTURE RACK LIGHITNG	2	20 A	1			1.5	1.5			1	20 A	2	FUTURE RACK LIGHITNG	70
71	FUTURE RACK LIGHITNG	2	20 A	1					1.5	1.5	1	20 A	2	FUTURE RACK LIGHITNG	72
73	FUTURE RACK LIGHITNG	2	20 A	1	1.5	1.5					1	20 A	2	FUTURE RACK LIGHITNG	74
75	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	76
77	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	78
79	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	80
81	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	82
83	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	84
85	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	86
87	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	88
89	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	90
91	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	92
93	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	94
95	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	96
97	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	98
99	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	100
101									0.0	0.0					102
103	SPARE	--	30 A	2	0.0	0.0					2	20 A	--	SPARE	104
105							0.0	--			1	--	--	SPACE	106
107	SPARE	--	20 A	3					0.0	--	1	--	--	SPACE	108
109					0.0	--					1	--	--	SPACE	110
111	SPACE	--	--	1			--	--			1	--	--	SPACE	112
113	SPACE	--	--	1					--	--	1	--	--	SPACE	114
115	SPACE	--	--	1	--	--					1	--	--	SPACE	116
117	SPACE	--	--	1			--	--			1	--	--	SPACE	118
119	SPACE	--	--	1					--	--	1	--	--	SPACE	120
121	SPACE	--	--	1	--	0.0									122
123	SPACE	--	--	1			--	0.0			3	60 A	---	SPD	124
125	SPACE	--	--	1					--	0.0					126
			TOTAL LOAD:		27 kVA		25 kVA		28 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	2.0 kVA	100.00%	2.0 kVA		
RCPT	33.2 kVA	65.08%	21.6 kVA	CONNECTED LOAD:	80.7 kVA
LITES	9.0 kVA	125.00%	11.3 kVA	ESTIMATED DEMAND:	72.3 kVA
SPEC	36.8 kVA	102.54%	37.7 kVA		
				EST. DEMAND CURRENT:	200.6 A

NOTES:

CIRCUIT BREAKER PANELBOARD: HDP

JOHNSON HIGH SCHOOL

LOCATION: ELEC B111
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 600.0 A MCB
BUS AMPS: 600 AMPS
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
SPECIAL:

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)

(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A kVA		B kVA		C kVA		P	BKR	Wire/Conduit	Load Name	CKT
1					58.9	37.0									2
3	HW	(g)	400 A	3			51.1	32.6			3	225 A	(g)	HMAC	4
5									52.9	29.7					6
7					0.0	0.0									8
9	SPARE	--	225 A	3			0.0	0.0			3	100 A	--	SPARE	10
11									0.0	0.0					12
13					--	0.0									14
15	SPACE	--	--	3			--	0.0			3	60 A	---	SPD	16
17									--	0.0					18
			TOTAL LOAD:		96 kVA		84 kVA		83 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	2.0 kVA	100.00%	2.0 kVA		
Motor	6.3 kVA	100.00%	6.3 kVA	CONNECTED LOAD:	262.1 kVA
RCPT	74.8 kVA	56.69%	42.4 kVA	ESTIMATED DEMAND:	247.5 kVA
LITES	65.5 kVA	125.00%	81.9 kVA		
SPEC	115.1 kVA	101.22%	116.5 kVA	EST. DEMAND CURRENT:	297.7 A

NOTES:

CIRCUIT BREAKER PANELBOARD: HW

JOHNSON HIGH SCHOOL

LOCATION: ELEC B111
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 400.0 A MAIN CB
BUS AMPS: 400 AMPS
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
SPECIAL:

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)

(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A kVA		B kVA		C kVA		P	BKR	Wire/Conduit	Load Name	CKT
1	EUH-B1	2	20 A	1	3.3	3.0					1	20 A	2	COVE HEATERS B8, B9, B10	2
3	COVER HEATERS B6, B7	2	20 A	1			2.0	2.0			1	20 A	2	COVE HEATERS B4, B5	4
5	COVE HEATERS B1, B2, B3	2	20 A	1					3.0	0.6	1	20 A	2	EXTERIOR LIGHTING	6
7	LIGHTING	2	20 A	1	2.3	2.3					1	20 A	2	LIGHTING	8
9	LIGHTING	2	20 A	1			1.2	9.5							10
11									9.5	9.5	3	50 A	(a)	RTU-B1	12
13	RTU-B2	(a)	50 A	3	9.5	9.5									14
15							9.5	2.1							16
17									0.0	2.1	3	20 A	7	CU-B1	18
19	SPARE	--	40 A	3	0.0	2.1									20
21							0.0	0.0			1	20 A	--	SPARE	22
23									0.0	0.0	1	20 A	--	SPARE	24
25	SPARE	--	20 A	3	0.0	0.0					1	20 A	--	SPARE	26
27							0.0	0.0			1	20 A	--	SPARE	28
29	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	30
31	SPACE	--	--	1	--	--					1	--	--	SPACE	32
33	SPACE	--	--	1			--	--			1	--	--	SPACE	34
35	SPACE	--	--	1					--	--	1	--	--	SPACE	36
37															38
39	T/LW	(b)	125 A	3	27.4	0.0									40
41							25.0	0.0			3	60 A	---	SPD	42
			TOTAL LOAD:		59 kVA		51 kVA		53 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	2.0 kVA	100.00%	2.0 kVA		
Motor	6.3 kVA	100.00%	6.3 kVA	CONNECTED LOAD:	162.9 kVA
RCPT	33.2 kVA	65.08%	21.6 kVA	ESTIMATED DEMAND:	156.5 kVA
LITES	15.1 kVA	125.00%	18.9 kVA		
SPEC	106.8 kVA	101.30%	108.2 kVA	EST. DEMAND CURRENT:	188.2 A

NOTES:

EXISTING MSD SWITCHBOARD LOAD SUMMARY

EXISTING LOAD - 520 kVA X 1.25 = 650 kVA
EXISTING GEAR RATING - 4000 AMPS

	SWBD LOAD	CONN. LOAD
EXISTING X 1.25	650.0 kVA	
HDP	262.1 kVA	

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	2.0 kVA	100.00%	2.0 kVA		
Motor	6.3 kVA	100.00%	6.3 kVA		
RCPT	74.8 kVA	56.69%	42.4 kVA		
LITES	65.5 kVA	125.00%	81.9 kVA		
EXISTING	650.0 kVA	100.00%	650.0 kVA	CONN. LOAD:	911.0 kVA
SPEC	115.1 kVA	101.22%	116.5 kVA	EST. DEMAND LOAD:	895.9 kVA
				CONN. CURRENT:	1,095.7 A
				EST. DEMAND...	1,077.6 A

NOTES:

Date 05/14/25
Revision / 2 Addendum No.3

Project:
JOHNSON HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
BUDA, TX

STATE OF TEXAS
BJ. HENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.J. HENDRIX P.E. NO 94813 ON 04/22/2025

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PANEL SCHEDULES - ELECTRICAL

PACKAGE VOLUME

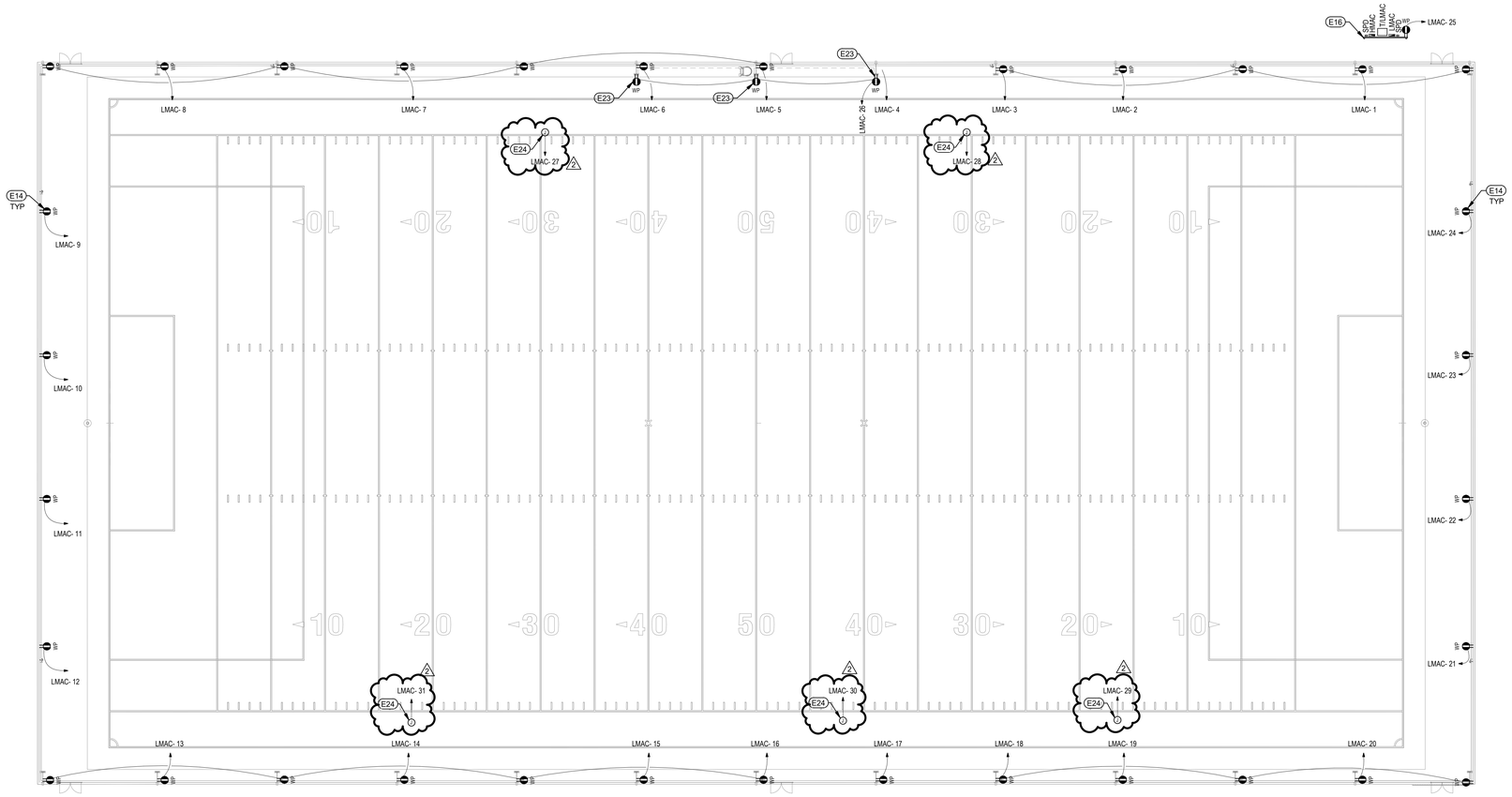
Job No. 1954-07-01
Sheet No. ISSUE FOR BID
Drawn By: PP, LMM
Date: 04/22/2025
E0.12

5/14/2025 9:37:01 AM
Autodesk Docs://HAYS CISD - LEHMAN, JOHNSON HS ADD RENO 2025/Hays-Johnson HSAddition 2025_MEP23.rvt

POWER KEY NOTES

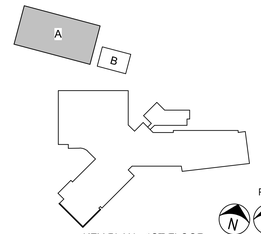
THESE NOTES APPLY TO THIS SHEET ONLY

E14	SURFACE MOUNT RECEPTACLES TO FENCE POSTS. COORDINATE FINAL LOCATIONS WITH FENCING.
E16	PROVIDE A UNISTRUT RACK FOR MOUNTING OF PANELS AND SPD'S. VERTICAL SECTION TO BE 3" RIGID PIPE BURIED A MINIMUM OF 3 FEET DEEP AND POURED IN CONCRETE. COORDINATE WITH ARCHITECT FOR EXACT PLACEMENT. SPRAY PAINT ALL CUT ENDS OR EXPOSED THREAD WITH COLD GALVANIZED SPRAY PAINT.
E23	MOUNT RECEPTACLES AT CROWS NEST VIEWING PLATFORM AT STANDARD HEIGHT ABOVE PLATFORM.
E24	POWER FOR SPORTS NETTING MOTORS. COORDINATE INSTALLATION LOCATION AND ELECTRICAL CONNECTION REQUIREMENTS WITH ACTUAL EQUIPMENT PROVIDED.



01 FIRST FLOOR PLAN - AREA A - POWER

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



KEY PLAN - 1ST FLOOR
N.T.S.

Revision /	Date	
2	05/14/25	Addendum No.3

Project:

JOHNSON HIGH SCHOOL
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FIRST FLOOR PLAN - AREA A - POWER

PACKAGE	VOLUME
Job No. 1954-07-01	Sheet No. ISSUE FOR BID E3.11
Drawn By: PP, LMM	
Date: 04/22/2025	

FOR LOCATIONS WHERE POWER AND DATA ARE SHOWN TOGETHER, DEVICE ROUGH-IN IS TO BE A MAXIMUM OF 6" APART. PROVIDE CADDY BRACKETS AS REQUIRED.

ALL 20A/1P RECEPTACLES INSTALLED AT AN ELEVATION LESS THAN 5'-6" AFF AND NOT WITHIN A DEDICATED APPLIANCE. SPACE SHALL BE A TAMPER RESISTANT RECEPTACLE PER NEC 406.12

REFERENCE MECHANICAL FAN SCHEDULE FOR EXHAUST FAN SWITCHING REQUIREMENTS.

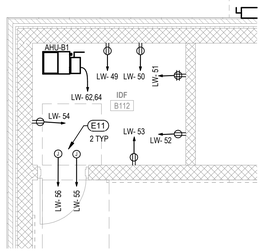
POWER KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

E2	EWC POWER. RECEPTACLE FOR POWER BEHIND EWC TO HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION.
E4	ELECTRICAL PANEL. DO NOT RUN ANY PIPING OR DUCTWORK OVER ELECTRIC PANELS.
E6	A/V EQUIPMENT POWER. COORDINATE RECEPTACLE LOCATIONS WITH TECHNOLOGY PRIOR TO ROUGH-IN.
E7	FIELD COORDINATE PLACEMENT OF DISCONNECTING MEANS FOR WATER HEATERS AND RE-CIRCULATING PUMP.
E8	COORDINATE RECEPTACLE LOCATIONS WITH MIRROR LOCATIONS AND ADJUST AS REQUIRED TO AVOID MIRRORS.
E10	POWER FOR OVERHEAD DOOR. REFERENCE MISCELLANEOUS EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
E11	JUNCTION BOX ABOVE CEILING WITH CIRCUIT FOR FUTURE USE.
E13	LOCATIONS SHOWN IN THIS ROOM ARE DIAGRAMMATICAL. COORDINATE WITH FIRE PROTECTION SHOP DRAWINGS PRIOR TO LOCATING ANY ROUGH-IN.
E15	POWER FOR A/V RACK. COORDINATE ROUGH-IN LOCATION AND REQUIREMENTS WITH TECHNOLOGY PLANS.
E17	REFERENCE MECHANICAL FAN SCHEDULE FOR CONTROL OF EXHAUST FANS.
E18	COORDINATE FINAL RECEPTACLE LOCATIONS WITH MILLWORK PRIOR TO ROUGH-IN. REVIEW FINAL ARCHITECTURAL INTERIOR ELEVATIONS FOR FINAL LAYOUTS OF EQUIPMENT TO BE POWERED.
E19	POWER FOR HVLS FAN CONTROLLER. PROVIDE SNAP SWITCH AND 120V TO 12V DC TRANSFORMER ABOVE CEILING WITH 3/4"C DOWN WALL TO J-BOX FOR MOUNTING FAN CONTROLLER.
E20	FUTURE RACK LIGHTING CONTROL WALL PANEL APPROXIMATE LOCATION. PROVIDE 3/4"C TO CEILING MOUNTED J-BOX FOR RACK LIGHTING CONTROL. COORDINATE FINAL WALL PANEL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
E21	PROVIDE 3/4"C DATA FROM J-BOX TO FUTURE LIGHTING CONTROLLER IN IDF ROOM.
E22	POWER FOR FUTURE GYM EQUIPMENT LIGHTING.

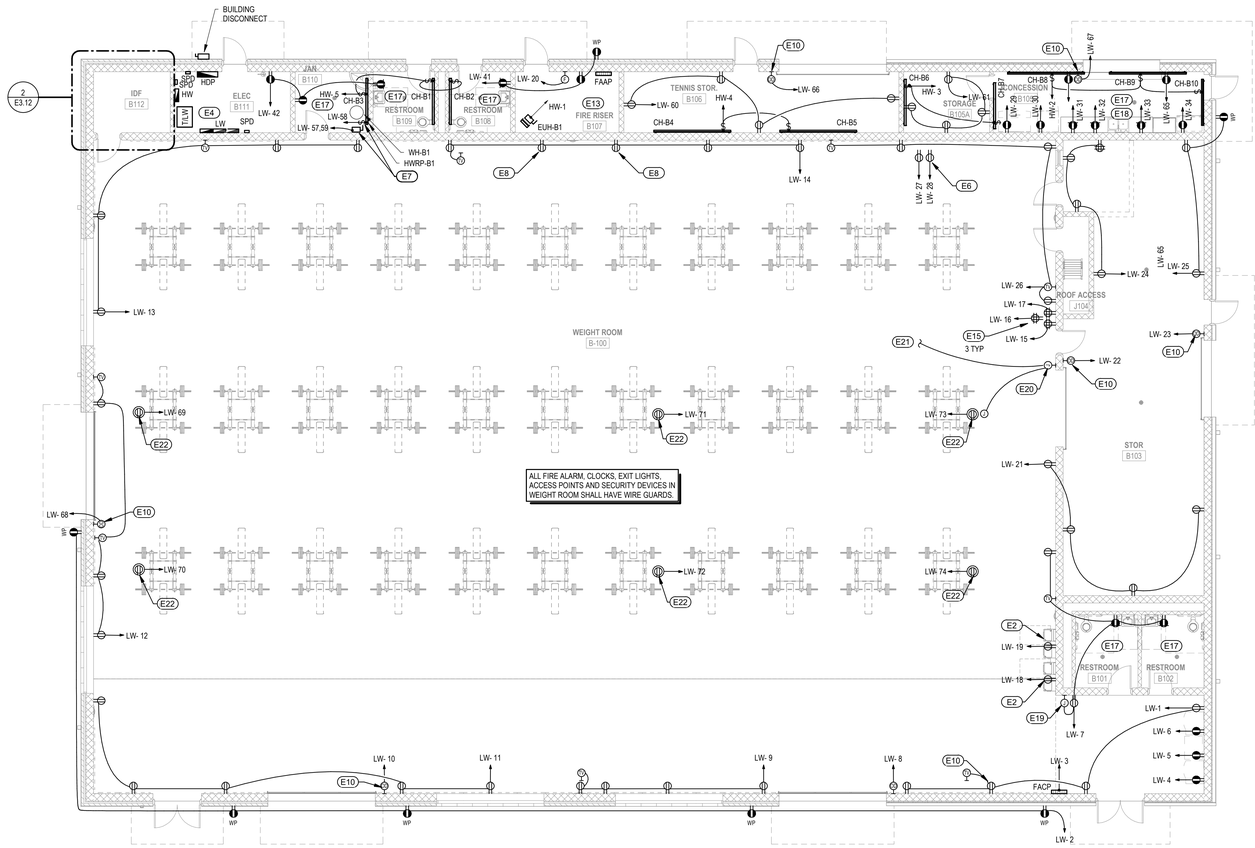
CONFIRM FINAL LAYOUT AND POWER REQUIREMENTS WITH TECHNOLOGY PRIOR TO ROUGH-IN.

GENERAL CONTRACTOR TO PROVIDE SHOP DRAWING SHOWING ROOM LAYOUT OF ALL SPECIAL SYSTEMS EQUIPMENT PANELS INCLUDING FIRE ALARM, DDC, ACCESS CONTROL, SECURITY, VIDEO, ETC PRIOR TO INSTALLATION OF ANY ROUGH-IN FOR ELECTRICAL, TECHNOLOGY, AND OWNER APPROVAL.



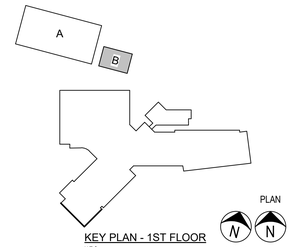
02 ENLARGED IDF ROOM - POWER

SCALE: 1/4" = 1'-0"



01 FIRST FLOOR PLAN - AREA B - POWER

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



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN TRUE

Revision /	Date	
2	05/14/25	Addendum No.3

Project:

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2025 ADDITIONS + RENOVATIONS
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FIRST FLOOR PLAN - AREA B - POWER

PACKAGE	VOLUME
Job No. 1954-07-01	Sheet No. ISSUE FOR BID E3.12
Drawn By: PP, LMM	
Date: 04/22/2025	

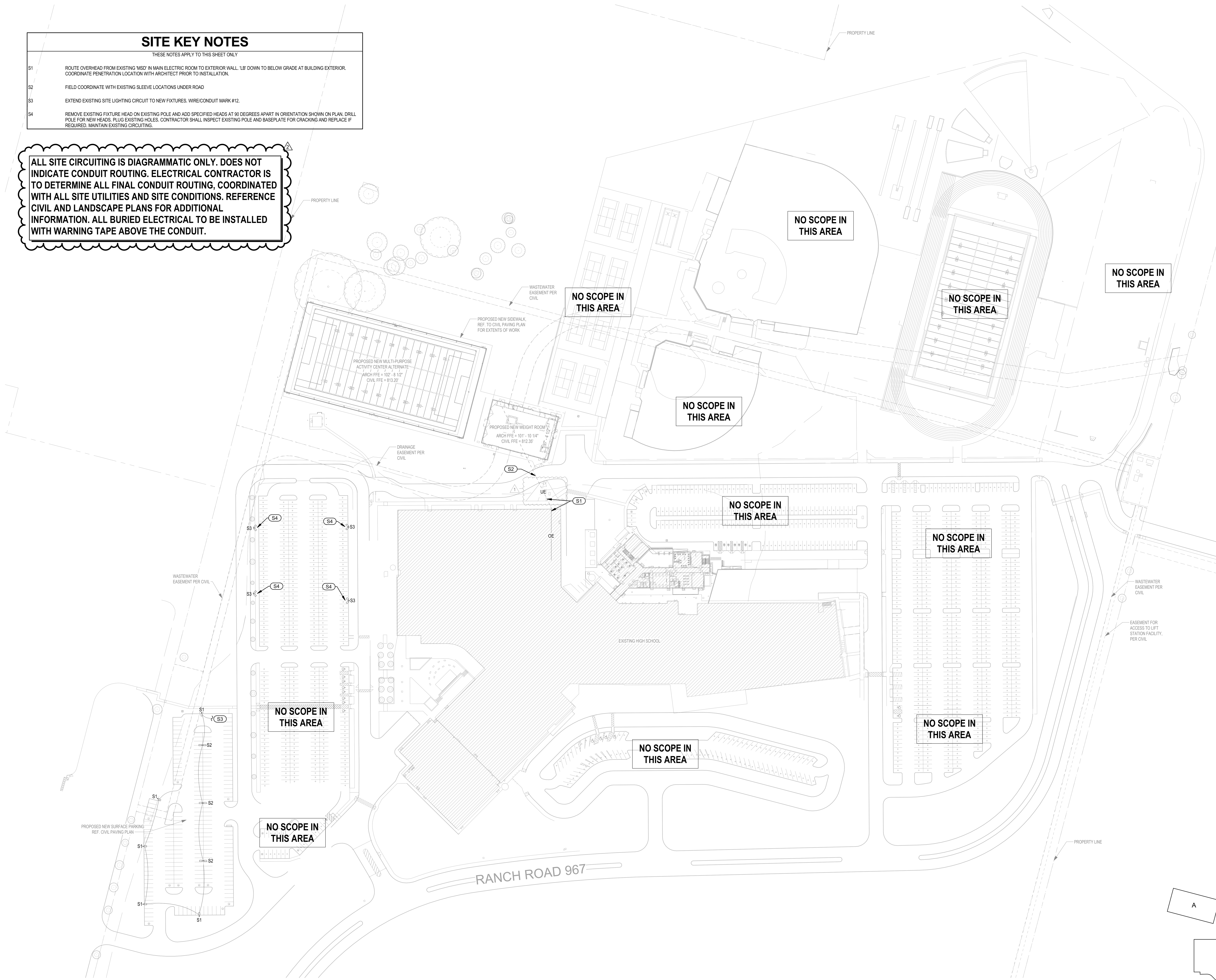
SITE KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

S1	ROUTE OVERHEAD FROM EXISTING 'MSD' IN MAIN ELECTRIC ROOM TO EXTERIOR WALL. 'LB' DOWN TO BELOW GRADE AT BUILDING EXTERIOR. COORDINATE PENETRATION LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
S2	FIELD COORDINATE WITH EXISTING SLEEVE LOCATIONS UNDER ROAD
S3	EXTEND EXISTING SITE LIGHTING CIRCUIT TO NEW FIXTURES. WIRE/CONDUIT MARK #12.
S4	REMOVE EXISTING FIXTURE HEAD ON EXISTING POLE AND ADD SPECIFIED HEADS AT 90 DEGREES APART IN ORIENTATION SHOWN ON PLAN. DRILL POLE FOR NEW HEADS. PLUG EXISTING HOLES. CONTRACTOR SHALL INSPECT EXISTING POLE AND BASEPLATE FOR CRACKING AND REPLACE IF REQUIRED. MAINTAIN EXISTING CIRCUITING.

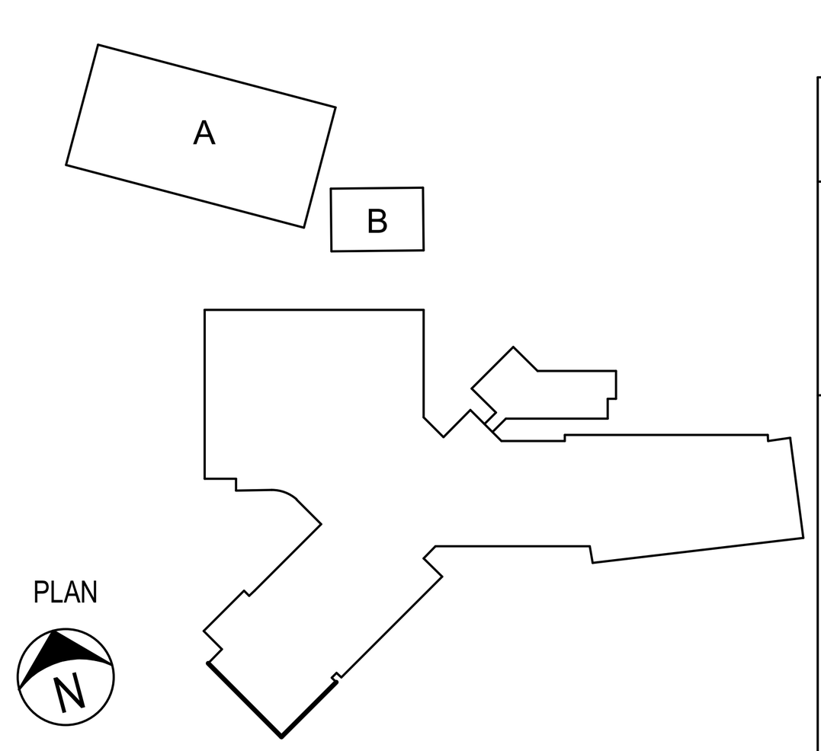
2

ALL SITE CIRCUITING IS DIAGRAMMATIC ONLY. DOES NOT INDICATE CONDUIT ROUTING. ELECTRICAL CONTRACTOR IS TO DETERMINE ALL FINAL CONDUIT ROUTING, COORDINATED WITH ALL SITE UTILITIES AND SITE CONDITIONS. REFERENCE CIVIL AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION. ALL BURIED ELECTRICAL TO BE INSTALLED WITH WARNING TAPE ABOVE THE CONDUIT.



01 **SITE PLAN - ELECTRICAL**
SCALE: 1" = 80'-0"

TRUE PLAN



KEY PLAN - 1ST FLOOR
N.T.S

Revision /	Date	
2	05/14/25	Addendum No.3

Project: JOHNSON HIGH SCHOOL 2025 ADDITIONS + RENOVATIONS FOR HAYS CISD BUDA, TX

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SITE PLAN - ELECTRICAL

PACKAGE VOLUME

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