

ADDENDUM No. 2 Request for Competitive Sealed Proposals (CSP) 19CSP104 Renovations at Dobie Middle School

February 18, 2019

Item 1: New and Revised Drawings and Pre-Proposal Sign-in Sheet

<u>Item 1:</u>

The New and Revised Drawings and pre-Proposal Sign-in Sheet for 19CSP104 can be found at Planroom Miller under 19CSP104.

Addendum No. 2

TO:Prospective BiddersDATE:February 15, 2019FROM:Haddon+Cowan ArchitectsHCA PROJ. NO:18-1032SUBJECT:AISD Dobie Middle School RenovationsAISD PROJ. NO:190035-DOBIE

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated January 03, 2019. Addendum Number 2 issued February 15, 2019 with amendments and additions noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

ADDENDUM SUMMARY:

This Addendum consists of:

- 1. New and Revised 24 x 36 Drawings
- 2. Attached Pre-Proposal Sign-In Sheet Record

SPECIAL INSTRUCTIONS:

None at this time

DRAWINGS:

- 1. Sheet G0.01 Revised and Reissued
 - a. Scope outline note 7 removed from sheet for clarity. Note 7 scope can be found on sheet G0.02.
 - b. Notes added for GC to provide a \$15,000 allowance and unit prices for deteriorated caulk and sealant replacement.
 - c. Reference to 3/A3.01 added for scope outline note 4.
- 2. Sheet G0.02 Revised and Reissued
 - a. View titles and plan references 6/G0.02 and 7/G0.02 have been revised to 4/G0.02 and 5/G0.02.
 - b. Note for existing stone planter border to remain added.
 - c. Hatch patterns added to details 3/G0.02 and 5/G0.02 for clarity.
- 3. Sheet G0.03 Revised and Reissued
 - a. Notes to provide new Keeguard roof edge protection system by Kee Safety.
 - b. Notes to the contractor to coordinate with the architect prior to making any new penetrations.
- 4. Sheet C2 Revised and Reissued
 - a. Revised graphics for clarity identifying elevation.



- 5. Sheet C3 Revised and Reissued
 - a. Legend updated for clarity
- 6. Sheet A2.01– Revised and Reissued
 - a. Detail 7/A2.01 renumbered as 5/A2.01.
 - b. 4/A2.01 and 5/A2.01 Areaway drain added to plan and section.
 - c. 5/A2.01 Concrete wall height reduced. Dimension strings updated for clarity.
- 7. Sheet A3.01 Revised and Reissued
 - a. Detail 1/A3.01 Areaway Plan renumbered to 2/A3.01 for clarity.
 - b. 2/A3.01 Dimension strings updated for clarity.
 - c. 2/A3.01 Areaway drain added to plan.
 - d. 2/A3.01 hatch patterns added to plan for clarity.
 - e. 1/A3.01 Areaway drain added to section.
 - f. 1/A3.01 Concrete wall height redcuced.
 - g. Details 3/A3.01 & 4/A3.01 added for new concrete equipment pads.
- 8. Sheet MEP2.1 Revised and Reissued
 - a. Legend has been updated.
 - b. Updated keyed notes 4 to reflect a single cooling tower with (2) cells.
- 9. Sheet MEP2.2 Revised and Reissued
 - a. Legend has been updated.
 - b. Keyed note number 2 has been revised to mention re-using the existing curbs in place, and to provide curb adapters.
 - c. Updated keyed notes 4 & 5 to reflect a single cooling tower with (2) cells.
- 10. Sheet MEP2.3 Revised and Reissued
 - a. Legend has been updated.
 - b. Reference to CT-2 has been removed. There is one tower, two cells. The notes have been revised for clarity.
 - c. Updated keyed notes 4 & 5 to reflect a single cooling tower with (2) cells.
- 11. Sheet M3.1 Revised and Reissued
 - a. Keyed note referring to motorized isolation valves have been revised to show the correct keyed note number.
 - b. Keyed note 11 is correctly matching existing conditions for refrigerant monitoring system that was put in place. EF-1 has existing toggle switch that is inside for the normal exhaust fan, and there is another emergency toggle switch outside the door for the emergency purge fan, EF-2.
 - c. Keyed note 1 is now matching M6.1/5 for providing new concrete pads for new pumps.
 - d. HVAC legend has been updated to provide more clarity between existing and new equipment. Note that only the legend has been clouded to show the difference in hatching.
 - e. All existing equipment marks have been revised to clarify whether it is existing or new.
- 12. Sheet M3.2 Revised and Reissued
 - a. Legend has been updated.

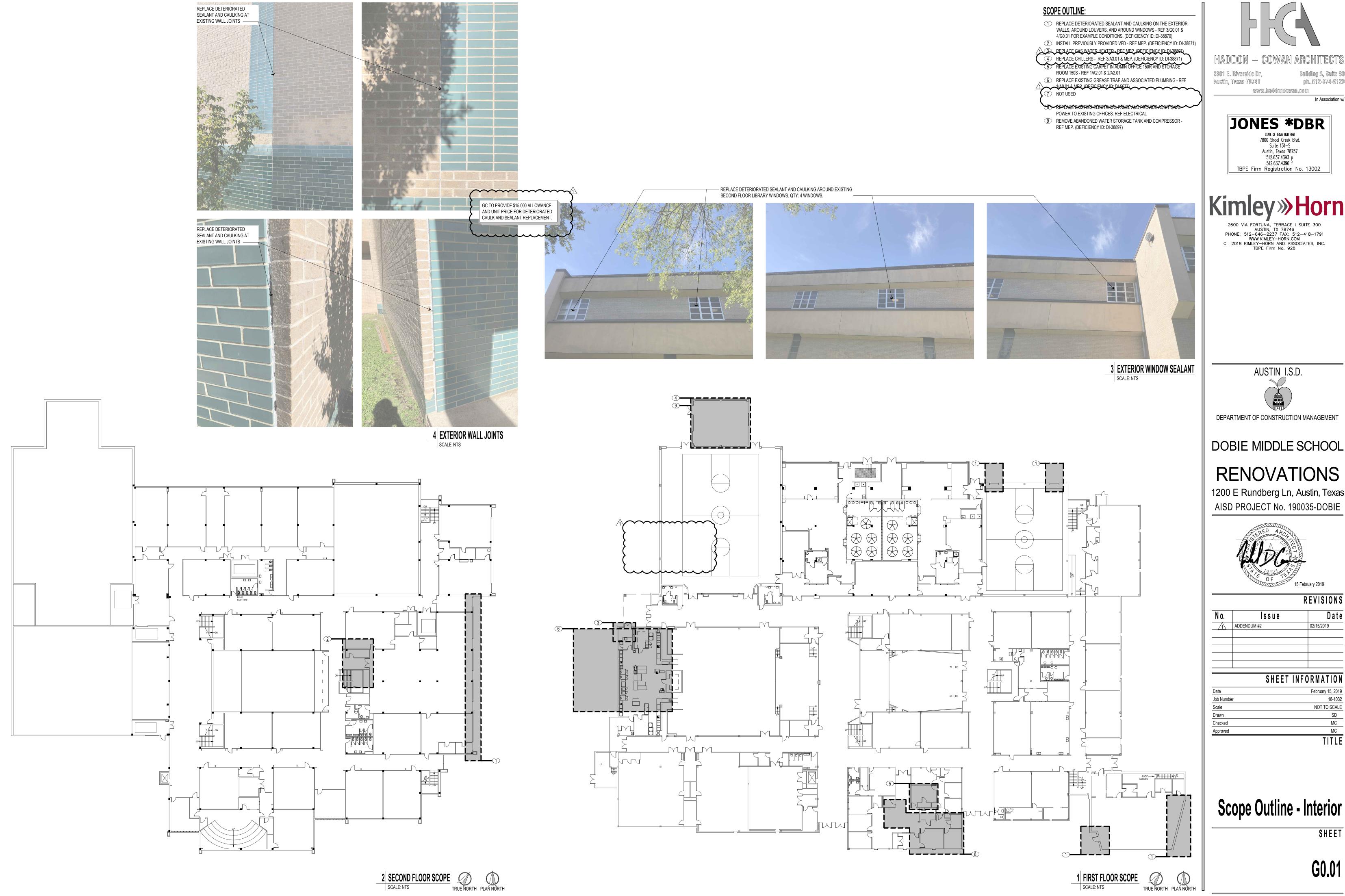


HADDON+COWAN ARCHITECTS

- b. New plan has been added to show existing AHU-4 location and noted to include replacement of VFD for unit utilizing VFD purchased during previous construction phase.
- 13. Sheet M5.1 Revised and Reissued
 - a. CHWP-1,2 have been revised to show lower HP rating.
- 14. Sheet E3.1 Revised and Reissued
 - a. Relocated CWP-1 & CHWP-2 to match mechanical plans.
 - b. Updated emolition keyed note 4.
 - c. Detail 2: Updated keyed notes 1 & 2 for use of new VFD, not existing.
 - d. Added Detail 3 and keyed notes for replacement of AHU-4 VFD.
- 15. Sheet E3.2 Revised and Reissued
 - a. Detail 1: Updated keyed note 1 from GWP-1 to GWH-1.
 - b. Detail 2: Added L1.2 annotation to match riser diagram.
 - c. Detail 2: Updated keyed note 1.
 - d. Detail 2: Updated EF-2DM to EF-12 to match mechanical plans.
 - e. Detail 4: Relocated receptacle from Admin 150F to Admin 150G.
 - f. Detail 1-4: Updated scale of each view from 1/16" to 1/4".
 - g. Detail 4: Added keyed note to replace flexible conduit with emt.
- 16. Sheet P1.2 Revised and Reissued
 - a. Added keyed note to remove grease waste back to main.
 - b. Added keyed note to demolish sanitary waste line back to main.
- 17. Sheep P2.2 Revised and Reissued
 - a. Added keyed notes.
 - b. Picked up additional hand sink.
 - c. Picked up additional floor sinks and floor drains.
- 18. Sheet P5.1 Revised and Reissued
 - a. Added fixtures to the plumbing fixture schedule as needed.
- 19. Sheet P6.1 Revised and Reissued
 - a. Added details for additional fixtures.

END OF ADDENDUM NUMBER 2





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Building A, Suite 80

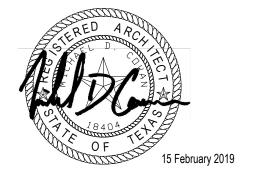
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RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE

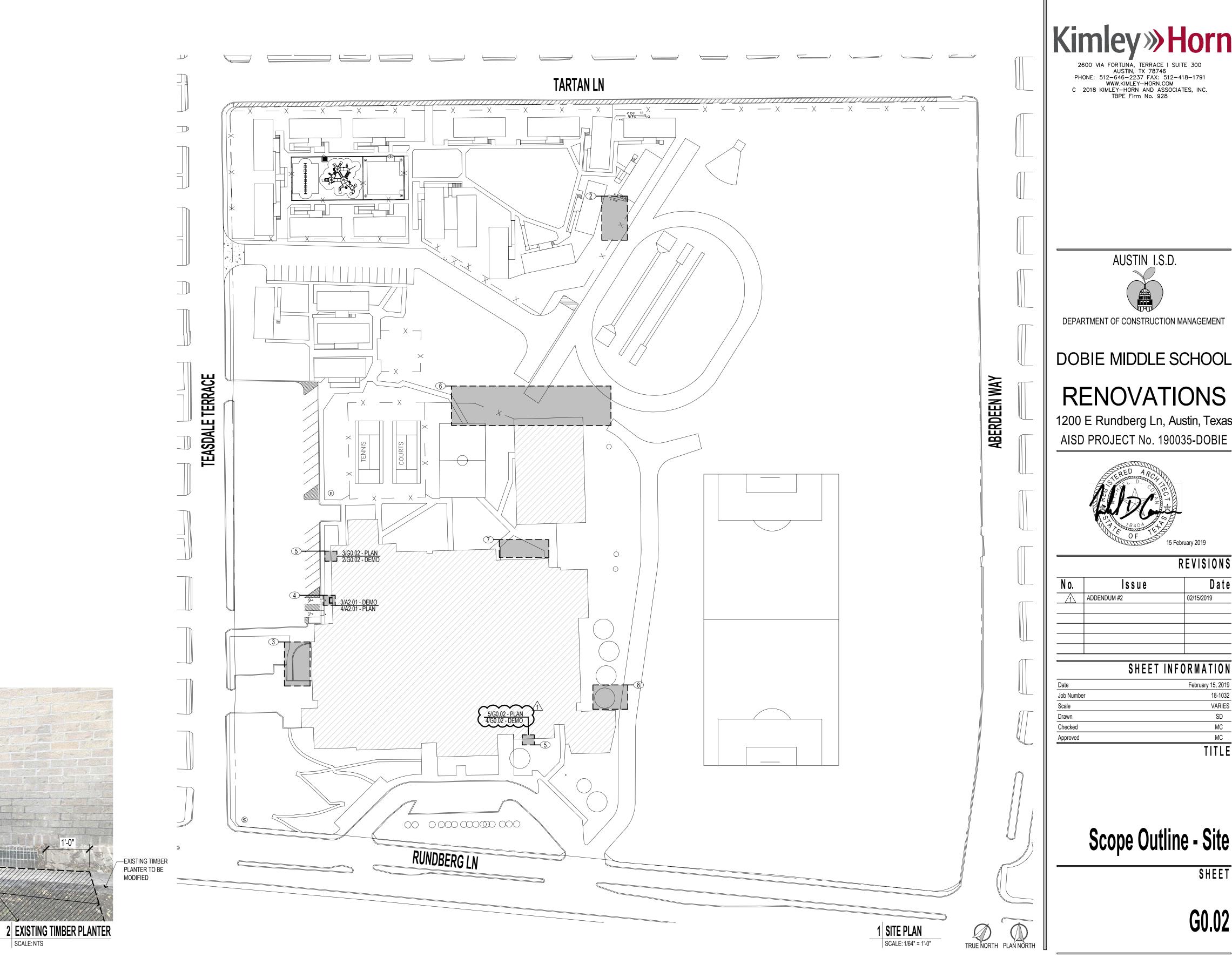


REVISIONS Date Issue ADDENDUM #2 02/15/2019 SHEET INFORMATION February 15, 2019
18-1032
NOT TO SCALE
SD
MC
MC
TITLE

Scope Outline - Interior

SHEET

G0.01



EXISTING BRICK

EXISTING PLANTING

MATERIAL & STONE

BORDER TO REMAIN-

PROVIDE NEW BRICK ON CONC BASE

THIS AREA BELOW LEVEL OF AREAWAY OPENING. SLOPE AWAY FROM

AREAWAY TO LIMIT WATER INTRUSION —

GC TO CONFIRM POSITIVE DRAINAGE AWAY FROM AREAWAY PRIOR TO NEW

EXISTING CONCRETE SIDEWALK TO REMAIN —

NEW TIMBER FRAMING TO MATCH EXISTING -

NEW TIMBER FRAMING TO MATCH EXISTING —

EXISTING PLANTING MATERIAL & TIMBER FRAMING TO REMAIN -RE-ANCHOR TIMBER AS NEEDED -

EXISTING PLANTING MATERIAL & TIMBER FRAMING TO REMAIN -RE-ANCHOR TIMBER AS NEEDED—

PROVIDE NEW BRICK ON CONC BASE THIS AREA BELOW LEVEL OF AREAWAY

OPENING. SLOPE AWAY FROM AREAWAY TOWARDS SIDEWALK TO

LIMIT WATER INTRUSION

TO REMAIN——

- EXISTING AREAWAY TO

— EXISTING BRICK

-EXISTING PLANTING

MATERIAL & STONE

BORDER TO REMAIN

NEW STONE BORDER TO

MATCH EXISTING

5 MODIFIED STONE PLANTER

MATERIAL THIS AREA

4 EXISTING STONE PLANTER

EXISTING STONE TO REMAIN

- EXISTING BRICK TO WORK.

EXISTING AREAWAY TO

- EXISTING BRICK TO

GC TO CONFIRM POSITIVE DRAINAGE AWAY FROM REAWAY PRIOR TO NEW

EXISTING AREAWAY TO

1'-0"

AND PLANTING MATERIAL
THIS AREA

TO REMAIN

REMAIN/ 1'-0"

SCOPE OUTLINE:

- 1 NOT USED 2 IMPROVE GRADING TOWARDS EXISTING DRAINAGE INLET - REF CIVIL.
- (DEFICIENCY ID: DI-38904) 3 REPLACE EXISTING GREASE TRAP - REF 1/A0.01 & MEP.
- (DEFICIENCY ID: DI-5677) 4 NEW AREAWAY AND EXHAUST FAN - REF 3/A2.01, 4/A2.01, AND MEP.
- (DEFICIENCY ID: DI-38871) 5 MODIFY EXISTING PLANTERS TO ALLOW FOR WATER FLOW AWAY FROM BUILDING - REF 2/G0.02, 3/G0.02 4/G0.02 AND 5/G0.02.
- (DEFICIENCY ID: DI-38868)
- 6 NEW CONCRETE TRICKLE CHANNEL REF CIVIL. (DEFICIENCY ID: DI-38904)
- 7 RELOCATE EXISTING SPLASH BLOCK AND ADD ADDITIONAL CONCRETE SPLASH BLOCK - REF CIVIL. (DEFICIENCY ID: DI-38904)
- 8 NEW CONCRETE CURB REF CIVIL. (DEFICIENCY ID: DI-38904)

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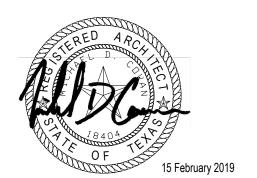
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Scope Outline - Site

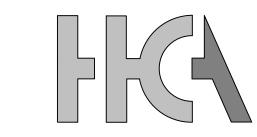
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SCOPE OUTLINE:

- 1 REPLACE THREE EXHAUST FANS REF MEP. (DEFICIENCY ID: DI-38871)
- 2 REPLACE THREE OUTSIDE AIR MAKEUP UNITS REF MEP. (DEFICIENCY ID: DI-38871)
- 3 REPLACE COOLING TOWER REF MEP. (DEFICIENCY ID: DI-38871)



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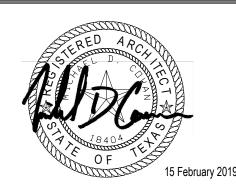
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RENOVATIONS

DOBIE MIDDLE SCHOOL

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REVISIONS

No. Issue Date
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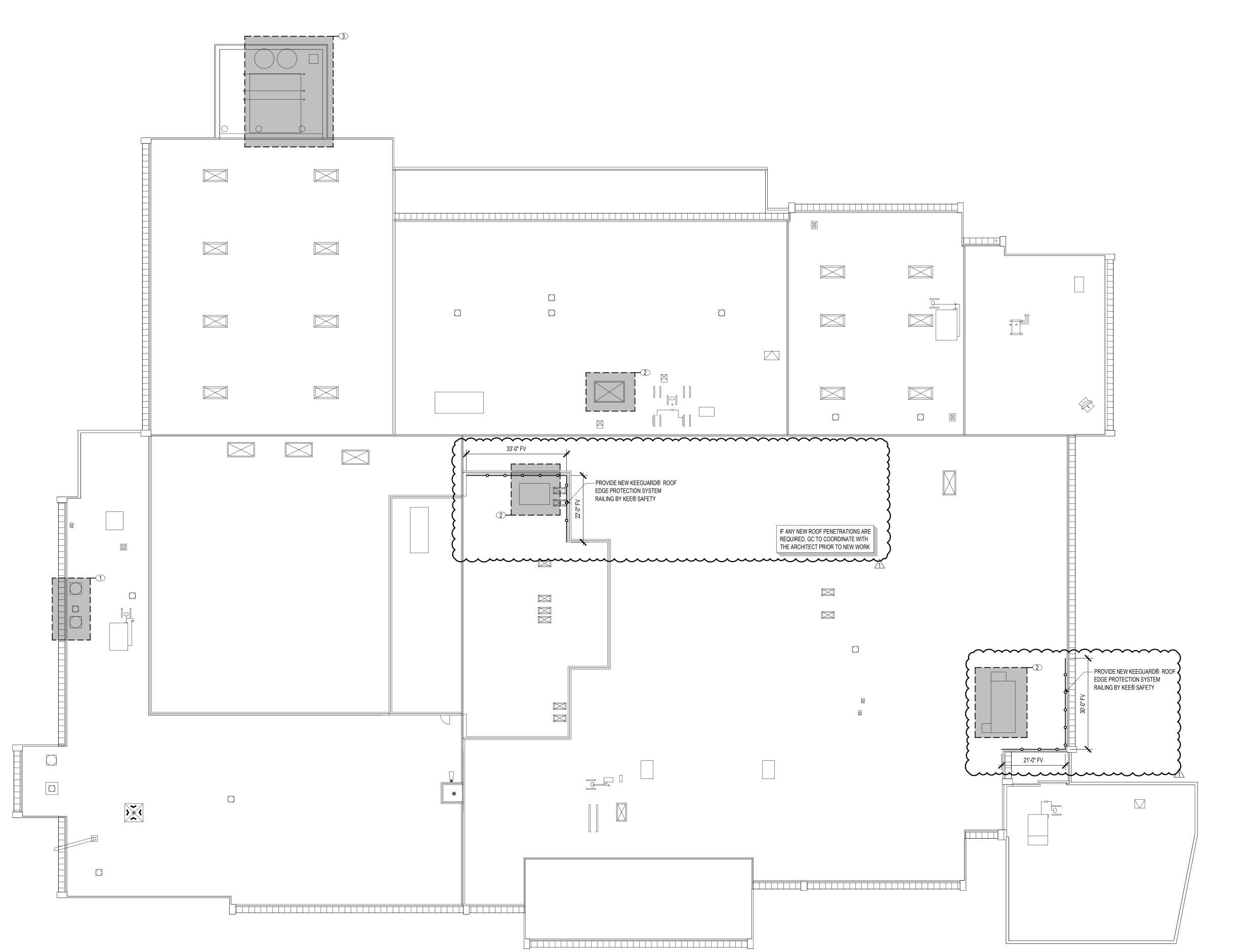
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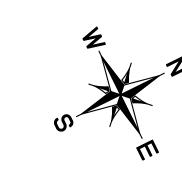
Scope Outline - Roof

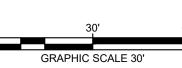
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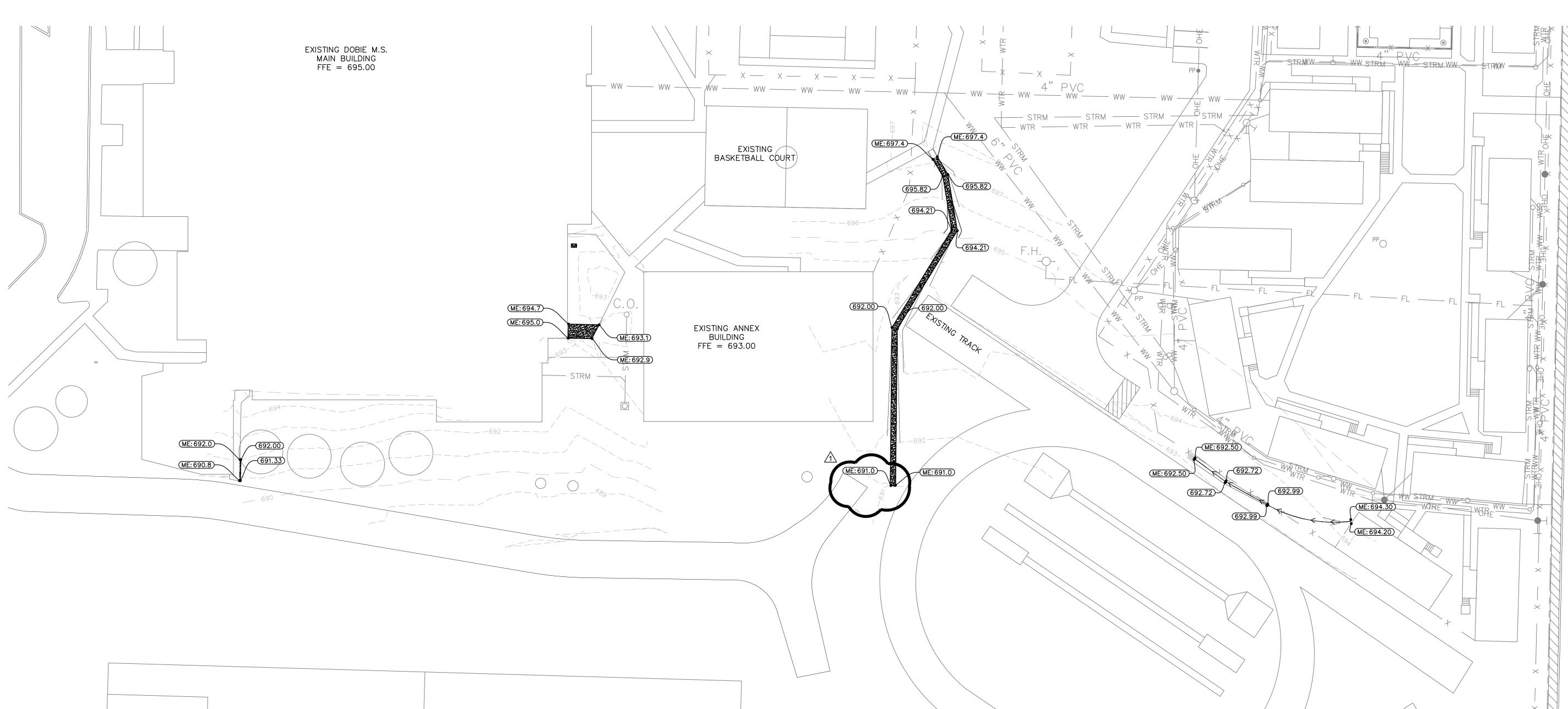
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ARCHITECTS

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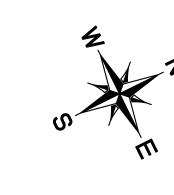
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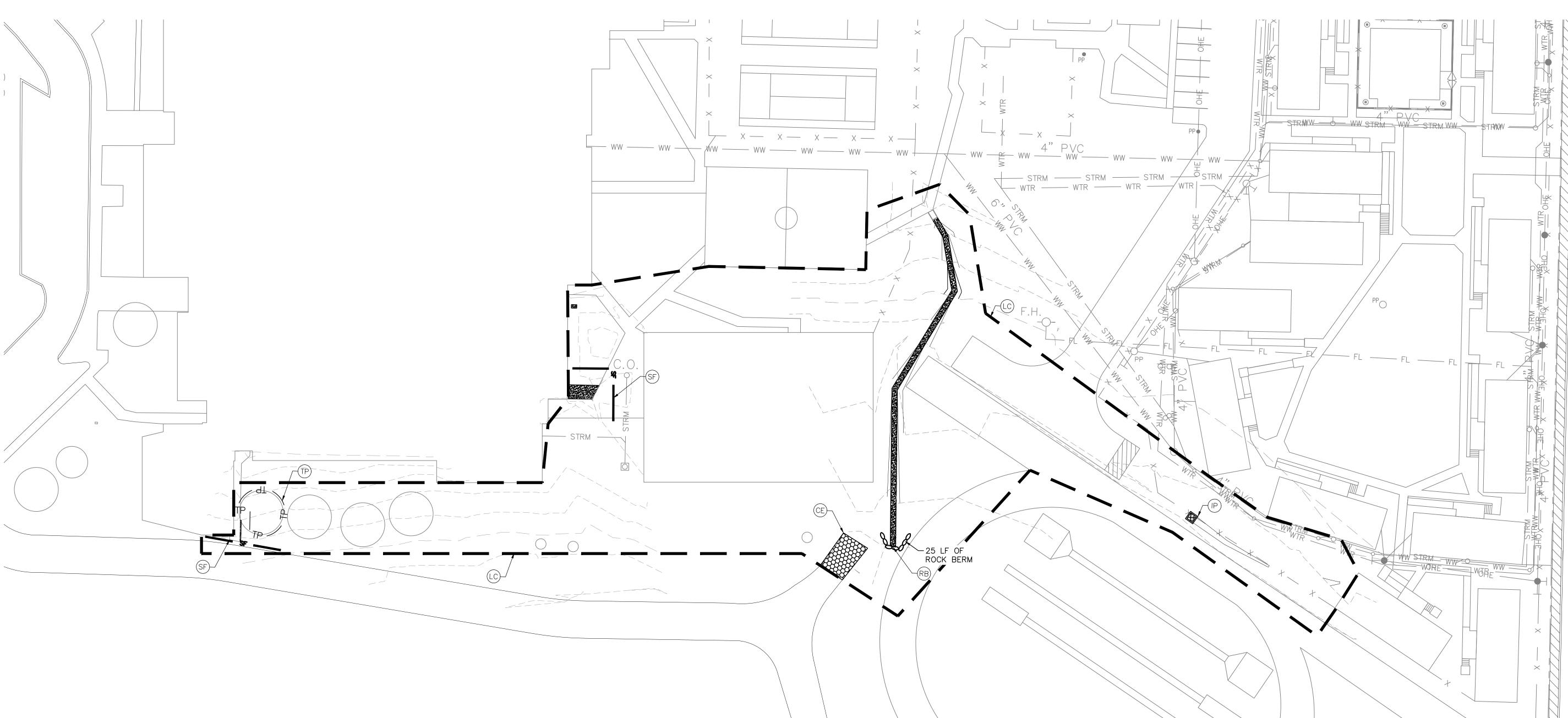
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GRADING PLAN

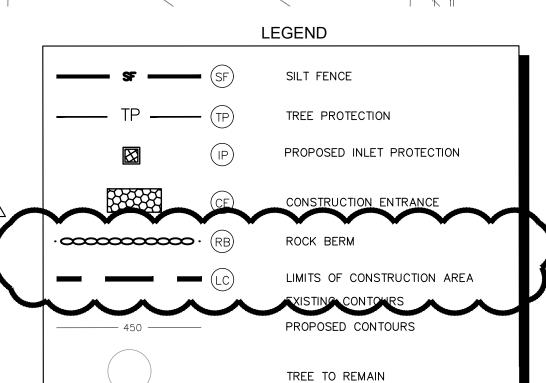
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- CONTRACTOR IS SOLELY RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
- CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE
- THE ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS
- CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURE DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(D) OR AS DIRECTED BY THE ENVIRONMENTAL
- TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS
- SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
- ADDITIONAL EROSION AND SEDIMENTATION CONTROLS MAY BE REQUIRED BY THE CITY DURING CONSTRUCTION.
- IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING [ECM 1.4.4.B.3, SECTION 5, I.]. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY [ECM 1.4.4.D.4].
- ALL DISTURBED AREAS TO BE RE-VEGETATED PER CITY OF AUSTIN STANDARDS.





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MANAGEMENT DOBIE MIDDLE SCHOOL

DEPARTMENT OF CONSTRUCTION

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



Issue

ADDENDUM #2

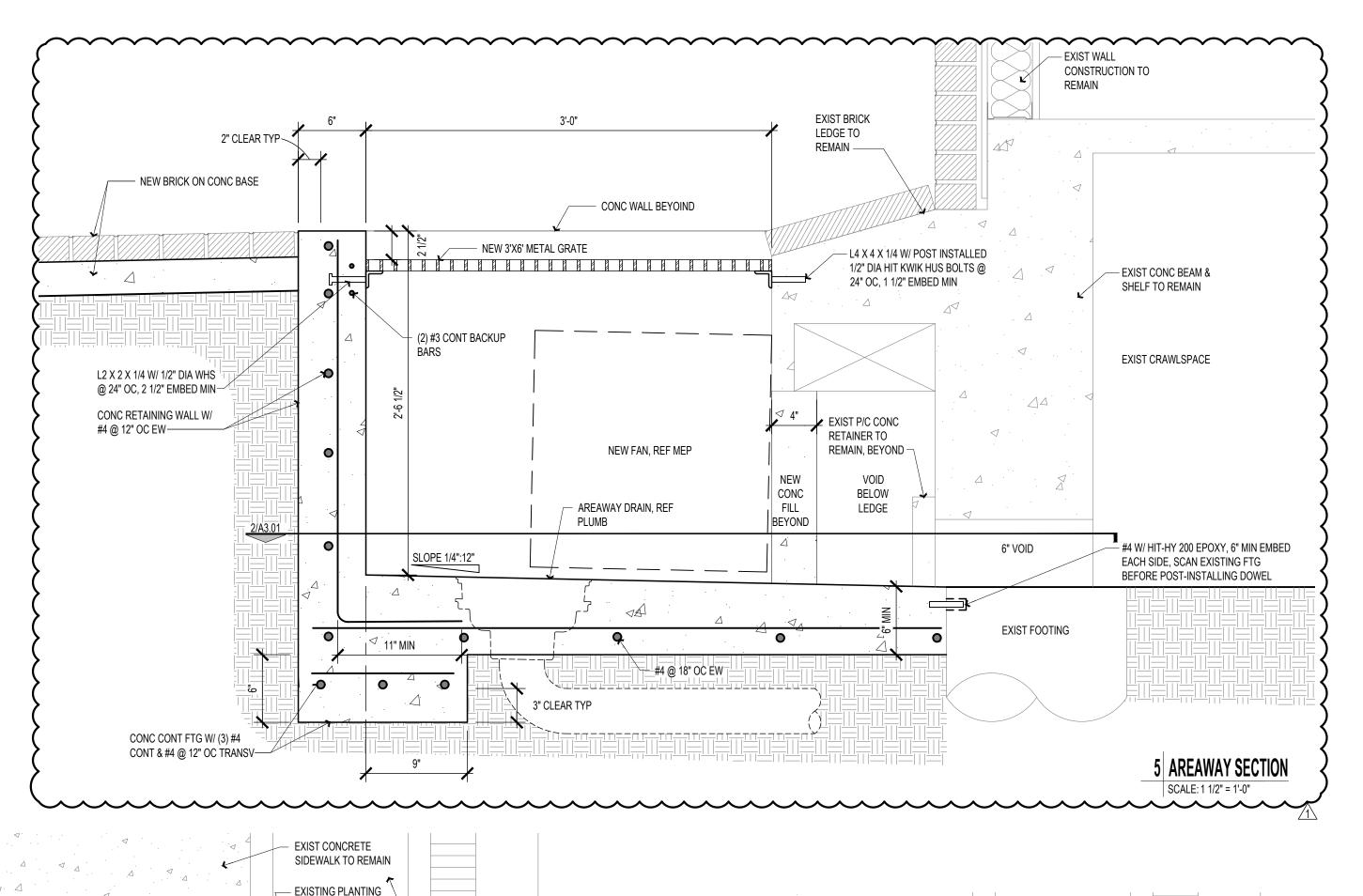
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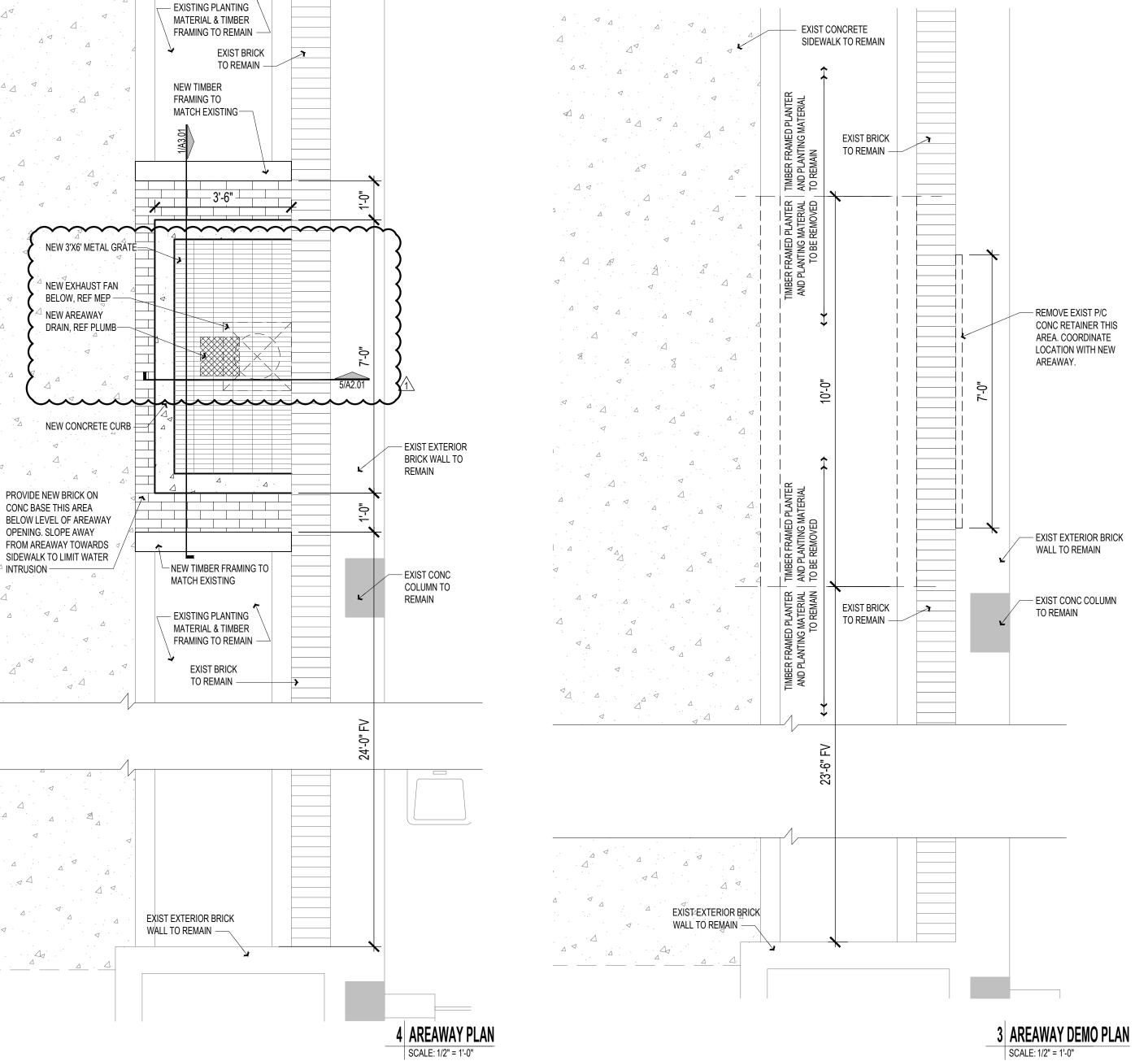
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	SHEET INFORMATION
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EROSION CONTROL





ROOM FINISH SCHEDULE											
	ROOM		FLOORS		WALLS			CEILING		NOTES	
	ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	FINISHES RE	EFERENCE PI	SOUTH	WEST	FINISH	HEIGHT REF RCP	
	150R	ADMIN	CPT-1	RB-1	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
	150S	STORAGE	CPT-1	RB-1	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	

								6 FINISH SCHEDULE SCALE: NTS
	ROOM FINISH LEG	GEND						
	MATERIAL	CODE	MANUFACTURE/PATTERN	PRODUCT NO.	COLOR	FINISH	DIMENSIONS	REMARKS
FLOORING								
	CARPET	CPT-1	INTERFACE / DETOURS	NA	104718 STEEL	NA	50CM X 50CM	
WALLS						•		
	WALL BASE	RB-1	JOHNSONITE / TRADITIONAL WALL BASE	DC-40-4	BLACK	NA	4" COVE BASE, COIL	RESILIENT WALL BASE
MISC						1		
	TRANSITION STRIP	TS-1	JOHNSONITE / RUBBER	SLT-40-A	BLACK	NA	5/8" WIDE	VCT TO CARPET TILE TRANSITION

STORAGE 150W

STORAGE 150E.B

ADMIN 150

STORAGE< 150E.B

BREAK 151

ADMIN 150A

ADMIN 150B

ADMIN 150C

RR 152

> ADMIN 150A

> ADMIN 150B

> ADMIN 150C

5 ROOM FINISH LEGEND
SCALE: NTS

ADMIN 150M

ADMIN 150L

ADMIN 150J

ADMIN 150G

2 FINISH PLAN
SCALE: 1/8" = 1'-0"

ADMIN 150L

ADMIN 150J

STORAGE 150H

ADMIN 150G

ADMIN 150F

ADMIN 150Q STORAGE STORAGE

ADMIN 150Q

ADMIN 150R

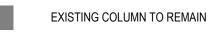
GENERAL NOTES:

- 1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF BOTH REMOVED MATERIAL AND ALL FINISHES ADJACENT TO WORK SCHEDULED FOR DEMOLITION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING THE DAMAGE DONE BY ANY AND ALL OPERATIONS
- UNDER THIS CONTRACT.

 2. THE GENERAL CONTRACTOR SHALL MAINTAIN AND PROTECT EXISTING CORRIDOR FLOORING IN RENOVATED AREAS AND ROUTES FOR MATERIAL HANDLING. FLOORING SHALL BE CLEANED TO OWNER'S STANDARD MAINTENANCE
- PROCEDURES.
 3. THE GENERAL CONTRACTOR SHALL PREPARE SURFACES TO RECEIVE NEW FINISHES.

LEGENI

EXISTING PARTITION TO REMAIN



DEMOLITION KEY NOTES:

1 EXISTING CARPET AND BASE TO BE REMOVED.



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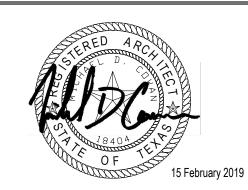


DEPARTMENT OF CONSTRUCTION MANAGEMENT

DOBIE MIDDLE SCHOOL

RENOVATIONS

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1	ADDENDUM #2	02/15/2019
	SHEET INFO	RMATION
		February 15, 2019
Numbe	r	18-1032
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Floor Plans & Finish Schedule

SHEET

REVISIONS

A2.01

KEY PLAN:

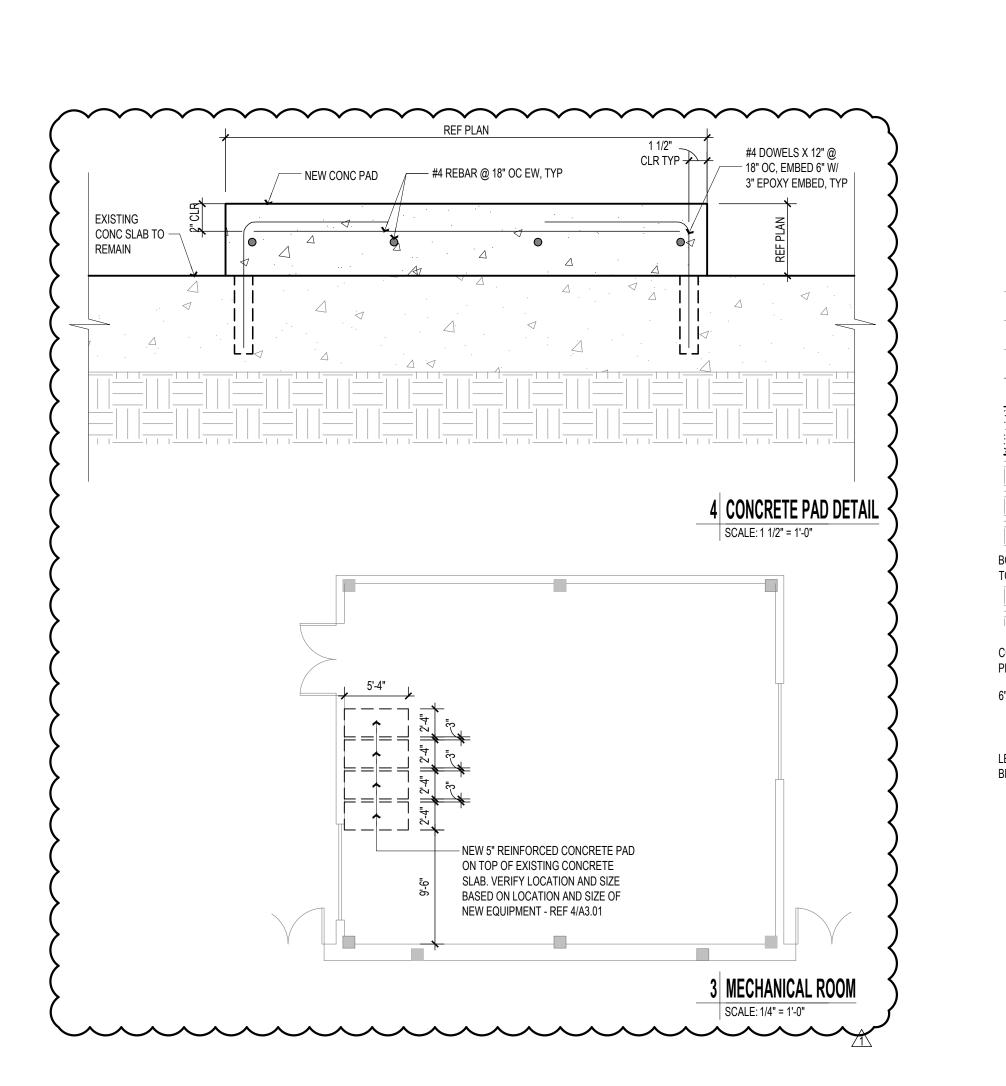
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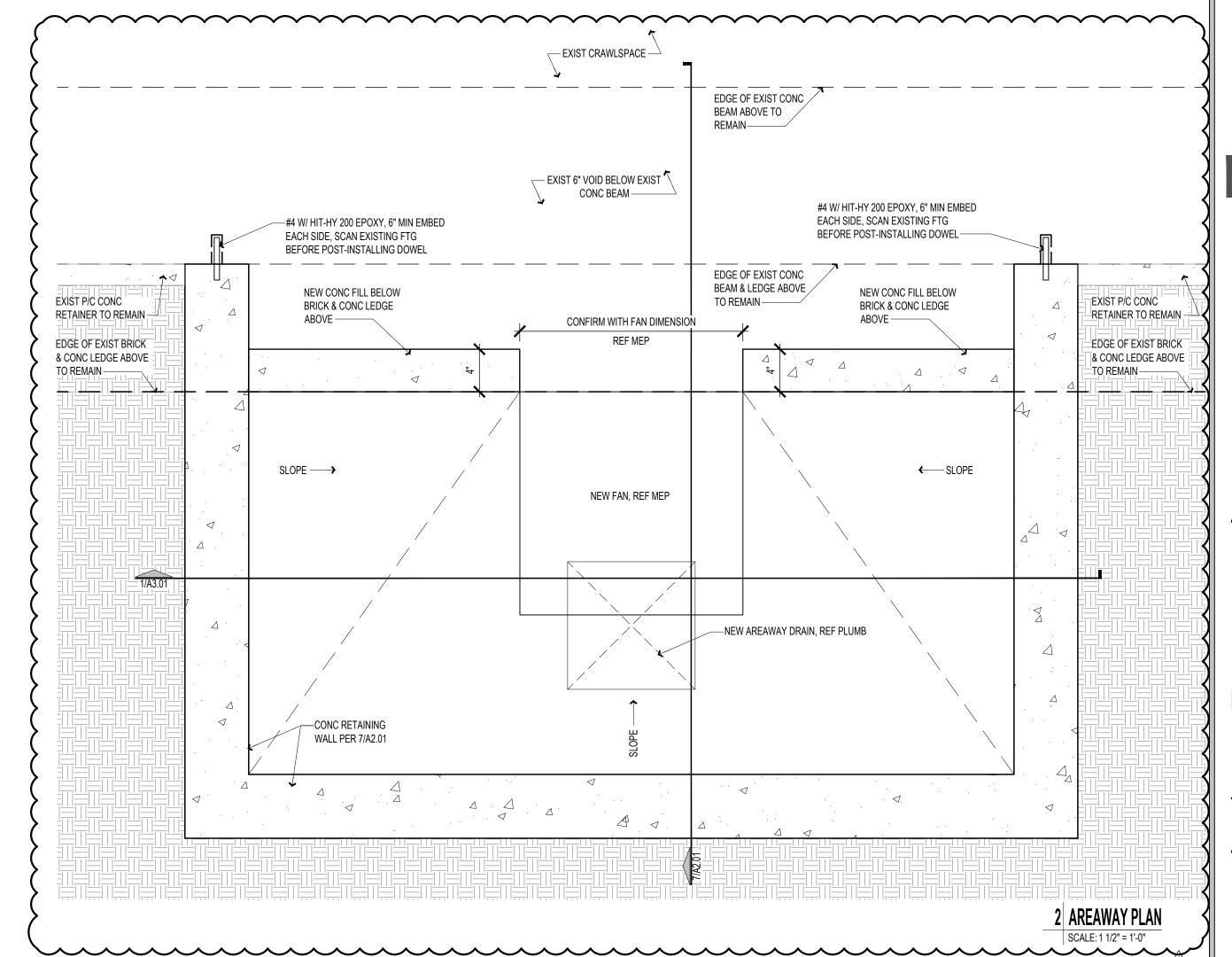
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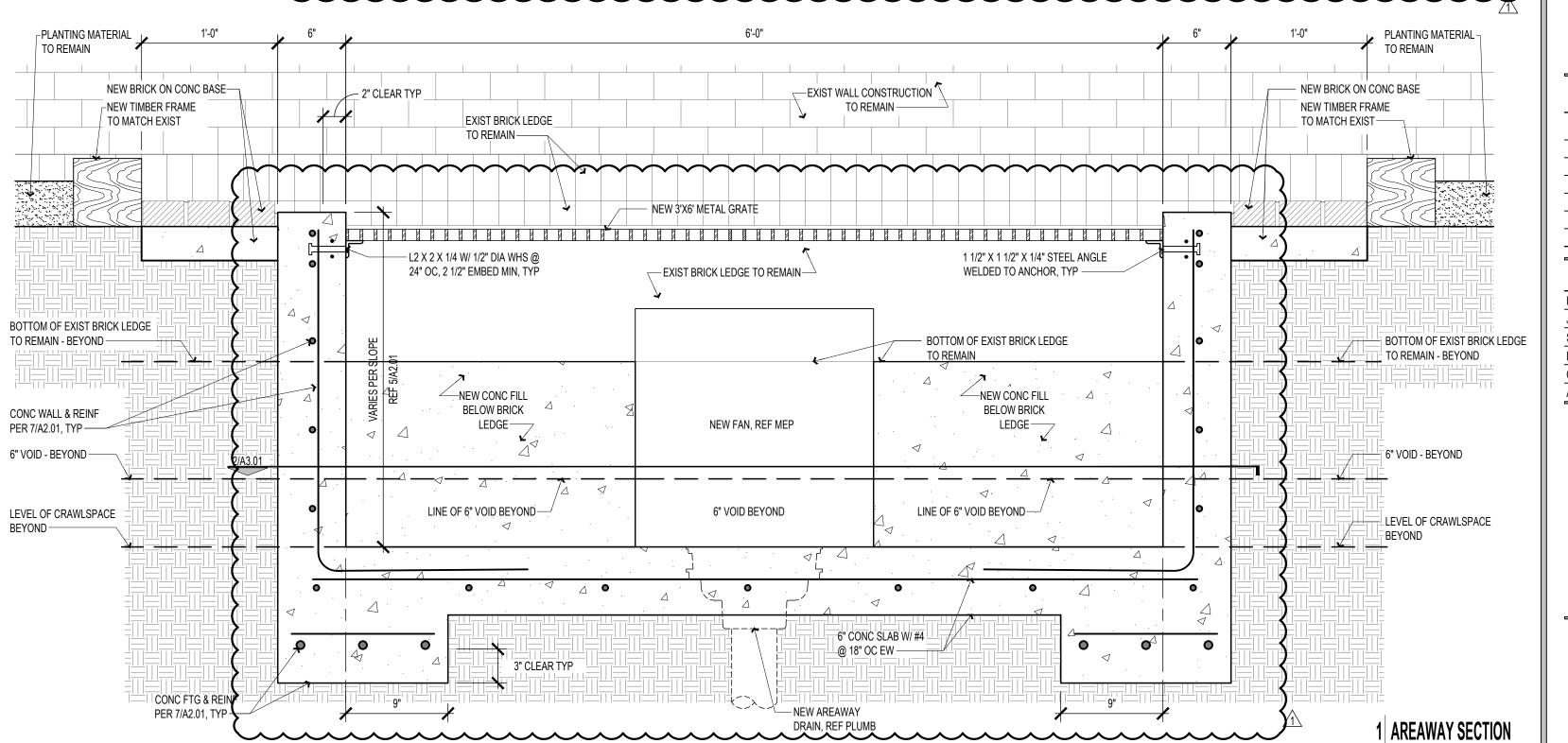
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TRUE NORTH PLAN NORTH

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









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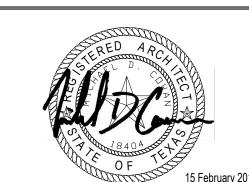
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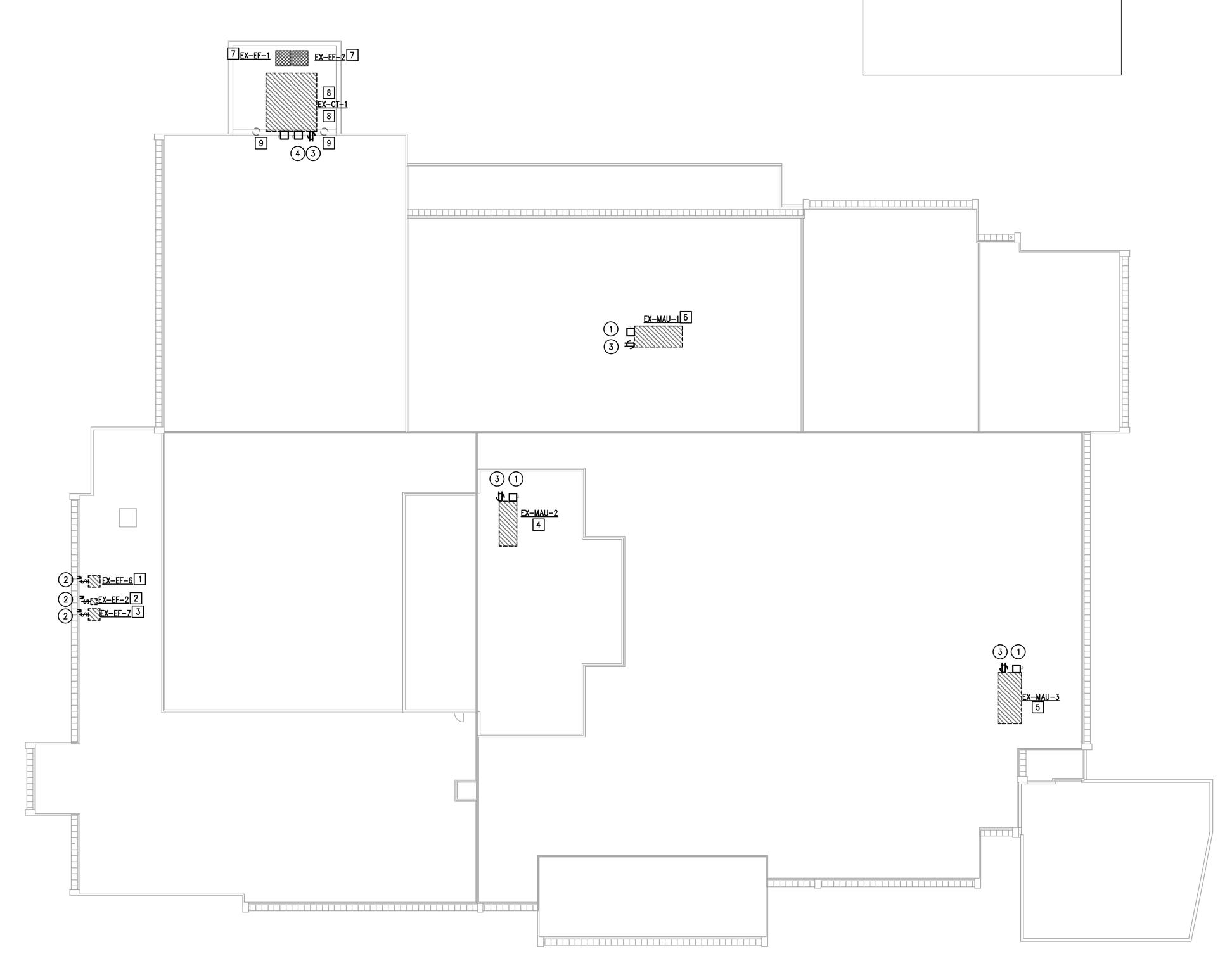
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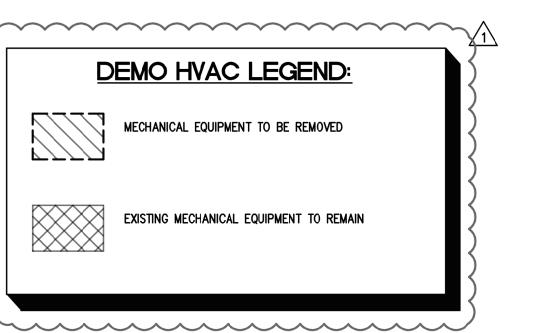
Details

SHEET

A3.01







- A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EXISTING EQUIPMENT, DUCTS, AND GRILLES, ETC. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT UPON PROJECT COMPLETION, THE EXISTING MECHANICAL SYSTEMS, CONDUIT, DUCTWORK, ETC... BE READY FOR OPERATION WHETHER OR NOT EVERY ITEM OF EQUIPMENT, ACCESSORY, DEVICE, ETC. IS SHOWN. REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE INCLUDING ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.
- B. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS BEFORE ANY DEMOLITION WORK BEGINS.
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- E. PROTECTION OF BUILDING PERSONNEL, FURNISHINGS AND SYSTEMS FROM HAZARD AND/OR CONTAMINATION ASSOCIATED WITH DEMOLITION AND CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS.
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- H. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND, AS NECESSARY, THE OWNER.
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- K. NEW HVAC DUCTWORK, UNLESS NOTED OTHERWISE, TO BE GALVANIZED SHEET METAL SIZED, CONSTRUCTED, AND INSTALLED IN ACCORDANCE WITH THE SMACNA RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. SIZES SHOWN ON PLANS ARE IN METAL DIMENSIONS. ROUTE DUCTWORK SO AS TO MINIMIZE OFFSETS. FIELD VERIFY ROUTING ABOVE EXISTING CEILING. SEAL ALL DUCT SEAMS AIR TIGHT: MAXIMUM AIR LEAKAGE RATE = 5%.
- L. CONTRACTOR SHALL PROTECT EXISTING SECURITY CAMERAS DURING CONSTRUCTION AND SHALL CONFIRM CAMERAS ARE OPERATIONAL UPON CONSTRUCTION COMPLETTION.
- M. SMOKE DETECTORS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. COVER ALL SMOKE DETECTORS FOR PROTECTION.
- N. ANY EXISTING CLOCKS IN HALLWAYS SUSPENDED FROM CEILING, TO BE CAREFULLY DISCONNECTED AND STORED DURING CONSTRUCTION. CLOCKS SHALL BE RE—INSTALLED IN PREVIOUS LOCATION WHEN CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL VERIFY THAT CLOCK SYSTEM IS WORKING PROPERLY WHEN INSTALLATION IS COMPLETE.
- O. ANY EXISTING EXITS SIGNS IN HALLWAYS WITH CEILINGS SCHEDULED FOR DEMOLITION AND SUSPENDED FROM CEILING TO BE CAREFULLY DISCONNECTED AND STORED DURING CONSTRUCTION. EXIT SIGNS SHALL BE RE—INSTALLED IN PREVIOUS LOCATION WHEN CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL VERIFY THAT POWER HAS BEEN RESTORED AND SIGNS ARE WORKING PROPERLY WHEN INSTALLATION IS COMPLETE.

MECHANICAL KEYED NOTES:

- EXISTING HOOD EXHAUST FAN TO BE REPLACED. PROVIDE CURB ADAPTER AS REQUIRED. CONTRACTOR SHALL DISCONNECT EXISTING DUCTWORK CONNECTION TO FAN BELOW CEILING ONLY AND RECONNECT ONCE NEW FAN IS INSTALLED. PROVIDE DUCT TRANSITION TO NEW FAN AS REQUIRED. ALL ELECTRICAL WIRING AND DISCONNECTS SHALL BE DISCONNECTED. CONTRACTOR SHALL ENGAGE THE TAB CONTRACTOR EARLY TO PRE AUDIT THE UNIT PRIOR TO REMOVAL.
- 2 EXISTING EXHAUST FAN TO BE REPLACED. PROVIDE CURB ADAPTER AS REQUIRED. CONTRACTOR SHALL DISCONNECT EXISTING DUCTWORK CONNECTION TO FAN BELOW CEILING ONLY AND RECONNECT ONCE NEW FAN IS INSTALLED. PROVIDE DUCT TRANSITION TO NEW FAN AS REQUIRED. ALL ELECTRICAL WIRING AND DISCONNECTS SHALL BE DISCONNECTED. CONTRACTOR SHALL ENGAGE THE TAB CONTRACTOR EARLY TO PRE AUDIT THE UNIT PRIOR TO REMOVAL.
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- EXISTING MAKE UP AIR UNIT ON THE HIGH ROOF TO BE REPLACED. PROVIDE CURB ADAPTER AS REQUIRED. CONTRACTOR SHALL DISCONNECT EXISTING DUCTWORK TO UNIT BELOW CEILING ONLY AND RECONNECT ONCE NEW UNIT IS INSTALLED. PROVIDE DUCT TRANSITION TO NEW UNIT AS REQUIRED. ALL ELECTRICAL SHALL BE DISCONNECTED. CONTRACTOR SHALL ENGAGE THE TAB CONTRACTOR EARLY TO PRE AUDIT THE UNIT PRIOR TO REMOVAL.
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- 7 EXISTING FAN TO REMAIN IN SERVICE.
- 8 EXISTING COOLING TOWER TO BE REPLACED. ASSOCIATED PIPING DOWN TO MECHANICAL ROOM BELOW SHALL BE REMOVED. ALL ELECTRICAL SHALL BE DISCONNECTED.
- 9 EXISTING GAS BOILER FLUE STACK TO REMAIN. CONTRACTOR TO COORDINATE EXACT LOCATION WHEN INSTALLING NEW COOLING

ELECTRICAL KEYED NOTES:

- 1) EXISTING MAKE-UP AIR UNIT TO BE REPLACED. MAKE-UP AIR UNIT "MAU-1, MAU-2 & MAU-3" DISCONNECT, WIRE AND CONDUIT TO BE REMOVED BACK TO SOURCE PANEL.
- 2 EXISTING EXHAUST FAN TO BE REPLACED. EXHAUST FAN "EF-1" POWER CONNECTION TO REMAIN FOR FUTURE EXHAUST FAN.
- (3) EXISTING RECEPTACLE TO BE REPLACED. CIRCUIT TO EXISTING ROOF RECEPTACLE IS TO REMAIN FOR FUTURE USE.

 4 EXISTING COOLING TOWER TO BE REPLACED. COOLING TOWER DISCONNECT, WIRE AND CONDUIT TO BE REMOVED BACK TO SOURCE PANEL.



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PHONE: 512-646-2237 FAX: 512-418-1791 WWW.KIMLEY-HORN.COM C 2018 KIMLEY-HORN AND ASSOCIATES, INC. TBPE Firm No. 928

AUSTIN I.S.D.

DEPARTMENT OF CONSTRUCTION MANAGEMENT

DOBIE MIDDLE SCHOOL

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



REVISIONS

Issue Date

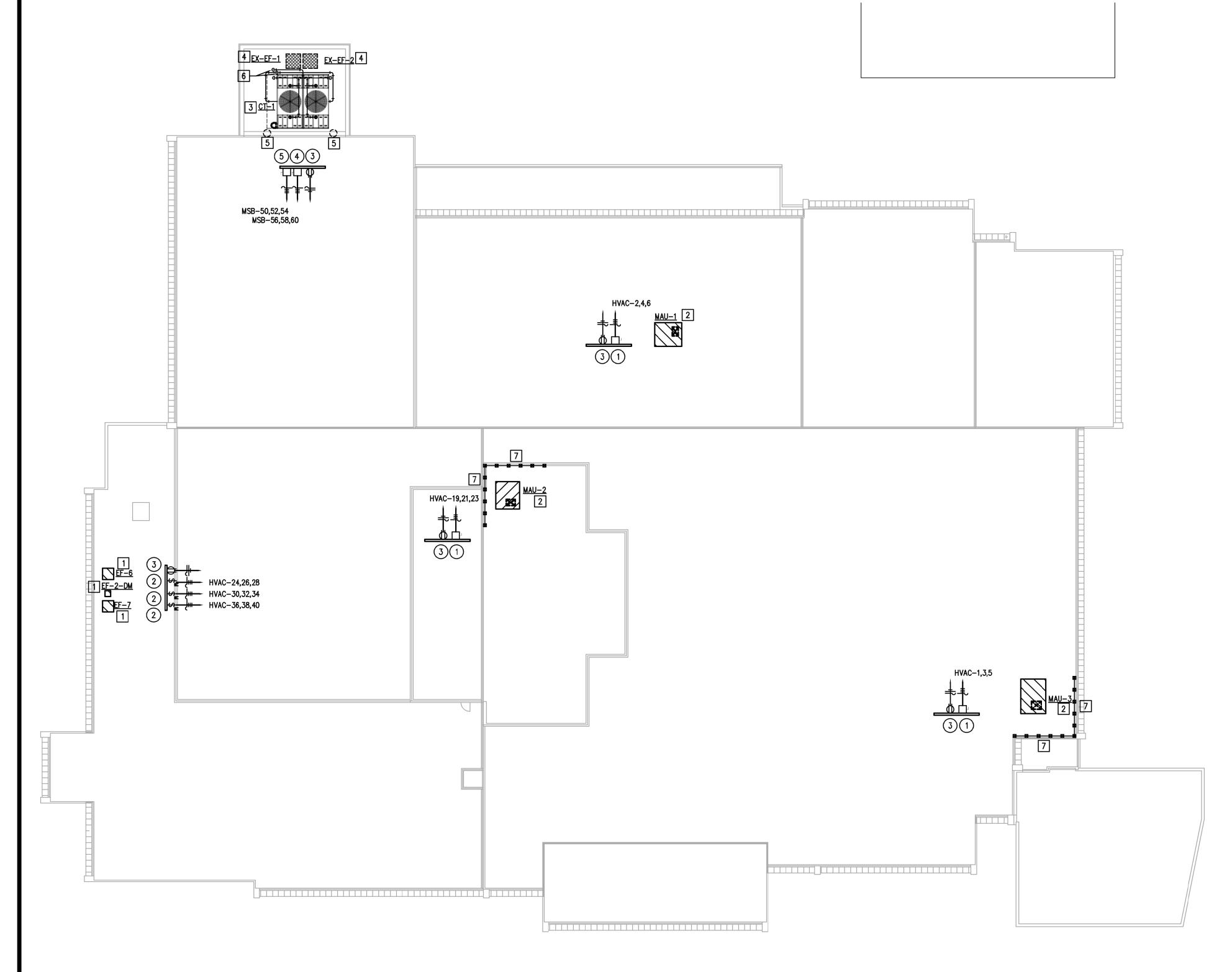
ADDENDUM 2 02/15/2019

	SHEET INFORMATION
Date	January 3, 2019
Job Number	18-1032
Scale	
Drawn	DBR
Checked	SB
Approved	MC
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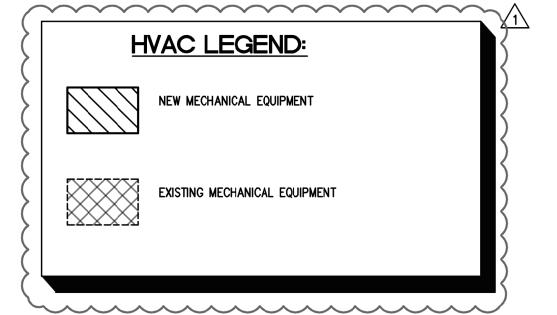
MEP DEMO ROOF PLAN

SHEET

MEP2.1







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- M. SMOKE DETECTORS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. COVER ALL SMOKE DETECTORS FOR PROTECTION.
- N. ANY EXISTING CLOCKS IN HALLWAYS SUSPENDED FROM CEILING, TO BE CAREFULLY DISCONNECTED AND STORED DURING CONSTRUCTION. CLOCKS SHALL BE RE-INSTALLED IN PREVIOUS LOCATION WHEN CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL VERIFY THAT CLOCK SYSTEM IS WORKING PROPERLY WHEN INSTALLATION IS COMPLETE.
- O. ANY EXISTING EXITS SIGNS IN HALLWAYS WITH CEILINGS SCHEDULED FOR DEMOLITION AND SUSPENDED FROM CEILING TO BE CAREFULLY DISCONNECTED AND STORED DURING CONSTRUCTION. EXIT SIGNS SHALL BE RE-INSTALLED IN PREVIOUS LOCATION WHEN CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL VERIFY THAT POWER HAS BEEN RESTORED AND SIGNS ARE WORKING PROPERLY WHEN INSTALLATION IS COMPLETE.

MECHANICAL KEYED NOTES:

- PROVIDE NEW EXHAUST FAN TO SERVE KITCHEN HOOD AT APPROXIMATE LOCATION SHOWN. PROVIDE CURB ADAPTER AS REQUIRED TO ACCOMMODATE NEW FAN. PROVIDE NEW ROOF FLASHINGS. PROVIDE NEW DUCTWORK CONNECTIONS EQUAL TO EXISTING SIZE TO CONNECT TO EXISTING SUPPLY BELOW CEILING. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL REQUIRED CLEARANCES.
- PROVIDE REPLACEMENT MAKE UP OUTSIDE AIR UNIT. UNIT SHALL BE INSTALLED IN SAME LOCATION AS PREVIOUSLY REMOVED UNIT PROVIDING NEW CURB ADAPTER AS NEEDED TO MEET 18" MINIMUM HEIGHT REQUIREMENT WHILE REUSING EXISTING CURB. PROVIDE FITTINGS AS REQUIRED TO CONNECT TO EXISTING DUCTWORK. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL REQUIRED CLEARANCES. PROVIDE NEW CONDENSATE LINE TO MATCH PREVIOUSLY REMOVED PIPING. CONDENSATE PIPING SHALL BE ROUTED AND SIZED TO MATCH PREVIOUSLY REMOVED LINE SERVING UNIT.
- PROVIDE REPLACEMENT COOLING TOWER WITH APPROXIMATE DIMENSIONS EQUAL TO EXISTING UNIT. TOWER SHALL BE INSTALLED IN SAME LOCATION AS PREVIOUSLY REMOVED TOWER PROVIDING NEW ROOF FLASHINGS AND STRUCTURAL SUPPORT AS NEEDED TO ACCOMMODATE NEW TOWER REQUIREMENT. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL REQUIRED CLEARANCES. PROVIDE NEW CONDENSATE AND MAKE UP LINE TO MATCH PREVIOUSLY REMOVED PIPING. COORDINATE WITH PLUMBING FOR MAKE PIPE CONNECTIONS.
- 4 EXISTING EXHAUST FANS TO REMAIN.
- 5 EXISTING GAS BOILER FLUE STACKS.
- 8"Ø SUPPLY AND RETURN CONDENSING WATER PIPING UP FROM MECHANICAL ROOM. REFER TO SHEET M3.1 FOR PIPE CONTINUATION. REFER TO SHEET MEP2.3 FOR ENLARGED PLANS.
- 7 FALL PROTECTION RAILING. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE AS REQUIRED BY CODE.

ELECTRICAL KEYED NOTES:

- 1 PROVIDE NEW MAKE-UP AIR UNIT "MAU-1, MAU-2 & MAU-3" DISCONNECT, WIRE AND CONDUIT. 100A/480Y277V/3P/NEMA 3R/NF. MOUNT DISCONNECT ON KINDORF STRUT.
- PROVIDE NEW EXHAUST FAN "EF-2, EF-6 & EF-7" MOTOR RATE SWITCH. REUSE EXISTING WIRE AND CONDUIT. MOUNT DISCONNECT ON KINDORF STRUT. CONTRACTOR TO ENSURE EXISTING CIRCUIT SIZE HAS CAPACITY FOR NEW EXHAUST FAN MCA & MOCP PRIOR TO INSTALLATION.
- 3 PROVIDE NEW WEATHER PROOF RECEPTACLE. CIRCUIT TO EXISTING ROOF RECEPTACLE CIRCUIT. MOUNT DISCONNECT ON KINDORF STRUT.
- PROVIDE NEW COOLING TOWER FAN "CT-1 (CELL 1)" & "CT-1 (CELL 2)" DISCONNECT, WIRE AND CONDUIT. 30A/480Y277V/3P/NEMA 3R/NF. MOUNT DISCONNECT ON KINDORF STRUT.
- PROVIDE NEW COOLING TOWER BASIN HEATER "CT-1 (CELL 1)" & "CT-1 (CELL 2)" DISCONNECT, WIRE AND CONDUIT. 30A/480Y277V/3P/NEMA 3R/NF. MOUNT DISCONNECT ON KINDORF STRUT.



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AUSTIN I.S.D.

DEPARTMENT OF CONSTRUCTION MANAGEMENT

DOBIE MIDDLE SCHOOL

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



REVISIONS

No. Issue Date

1 ADDENDUM 2 02/15/2019

 SHEET INFORMATION

 Date
 January 3, 2019

 Job Number
 18-1032

 Scale
 Drawn

 Drawn
 DBR

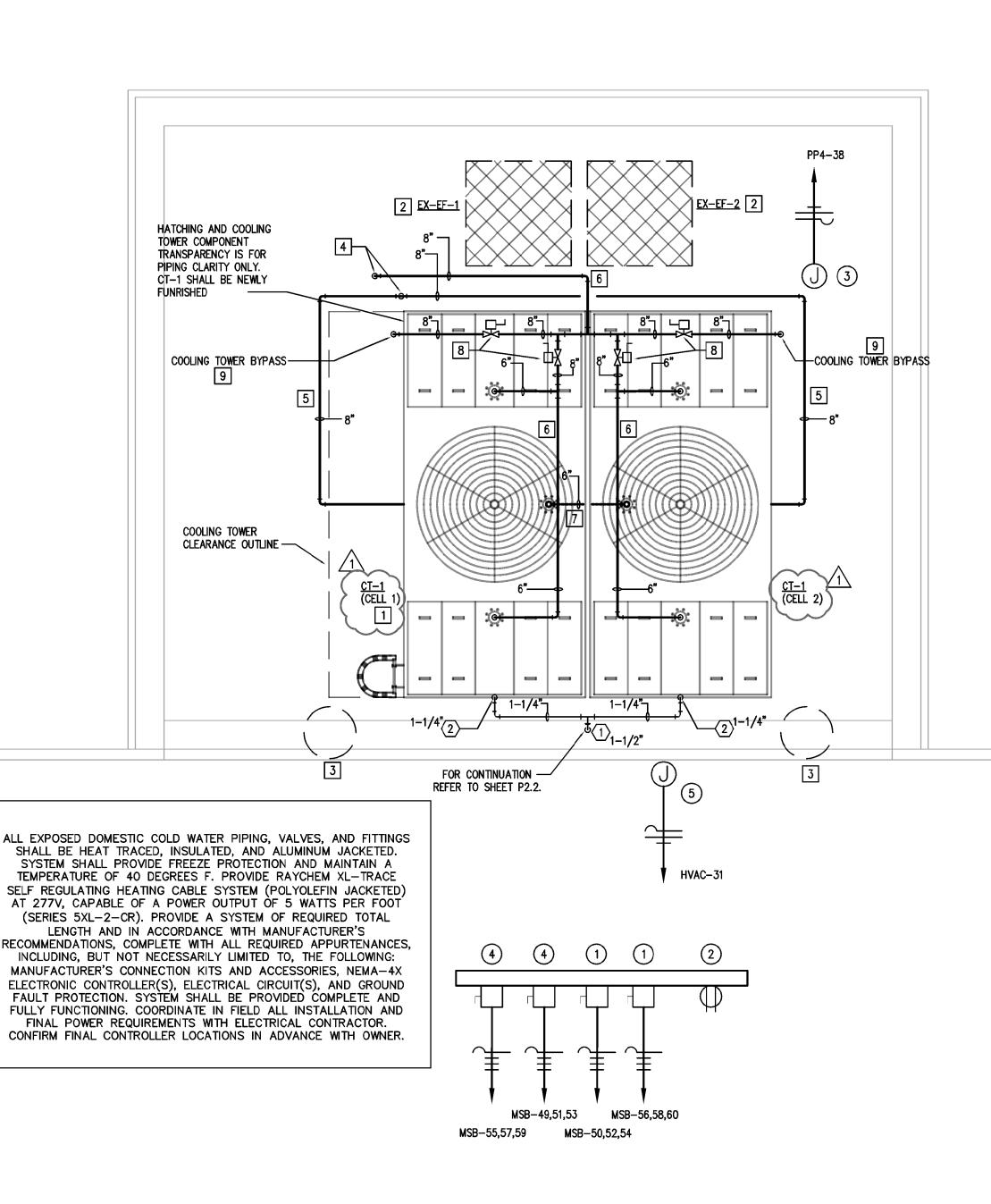
 Checked
 SB

 Approved
 MC

MEP NEW ROOF PLAN

SHEET

MEP2.2





HVAC LEGEND:

NEW MECHANICAL EQUIPMENT

EXISTING MECHANICAL EQUIPMENT

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MECHANICAL KEYED NOTES:

- PROVIDE REPLACEMENT COOLING TOWER WITH APPROXIMATE DIMENSIONS EQUAL TO EXISTING UNIT. TOWER SHALL BE INSTALLED IN SAME LOCATION AS PREVIOUSLY REMOVED TOWER PROVIDING NEW ROOF FLASHINGS AND STRUCTURAL SUPPORT AS NEEDED TO ACCOMMODATE NEW TOWER REQUIREMENT. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL REQUIRED CLEARANCES. COORDINATE WITH PLUMBING FOR REQUIRED DRAIN AND MAKE—UP WATER CONNECTIONS.
- 2 EXISTING EXHAUST FANS TO REMAIN FUNCTIONAL AND IN SERVICE.
- 3 EXISTING GAS BOILER FLUE STACKS.
- 4 8"Ø SUPPLY AND RETURN CONDENSING WATER PIPING UP FROM MECHANICAL ROOM. REFER TO SHEET M3.1 FOR PIPE CONTINUATION.
- 8"Ø SUPPLY CONDENSING WATER PIPE TO COOLING TOWER OUTLET. PIPE ROUTING SHALL BE ROOF LEVEL PROVIDED WITH ROOF MOUNTED PIPE SUPPORTS AS REQUIRED PER PIPE SECTION. COORDINATE ACTUAL ROUTING LEVEL WITH 8"Ø COOLING TOWER OUTLET PROVIDING FITTINGS AS REQUIRED TO MAKE COMPLETE CONNECTION TO UNIT. ENSURE ADDITIONAL SPACE HAS BEEN ADDED TO ACCOUNT FOR FITTINGS NEEDED TO MAKE COMPLETE CONNECTION TO UNIT'S OUTLETS.
- 8"Ø RETURN CONDENSING WATER PIPE TO COOLING TOWER INLETS. PIPE SHALL BE ROUTED FROM ROOF PENETRATION UP HIGH TO TOP OF TOWER AS INDICATED ON PLANS. COORDINATE ACTUAL PIPE ROUTING HEIGHT WITH COOLING TOWER INLETS. ENSURE ADDITIONAL HEIGHT HAS BEEN ADDED TO ACCOUNT FOR FITTINGS NEEDED TO MAKE COMPLETE CONNECTION TO UNIT'S INLETS.
- PROVIDE 6"Ø EQUALIZER BETWEEN COOLING TOWERS. PIPE SHALL BE CONNECTED FROM BOTTOM OF BOTH UNITS PROVIDED WITH ALL FITTINGS AS NEEDED FOR COMPLETE CONNECTION. ALL PIPE SHALL BE ABOVE ROOF LEVEL DIRECTLY UNDER TOWER. COORDINATE WITH MANUFACTURER FOR ROUTING PIPING.
- B PROVIDE MOTORIZED ISOLATION VALVES AS SHOWN ON DRAWINGS. REFER TO SHEET M4.1 FOR CONTROLS DIAGRAM. COORDINATE WITH ELECTRICAL FOR POWER REQUIREMENTS.
- 9 ROUTE 8"Ø BYPASS DOWN TO COOLING TOWER BASIN LEVEL. ROUTING SHALL ALLOW FOR FITTINGS AS REQUIRED TO CONNECT DIRECTLY INTO BASIN FOR DISCHARGE. REFER TO SHEET M6.2 FOR CONDENSER WATER FLOW DIAGRAM.

ELECTRICAL KEYED NOTES:

- 1 PROVIDE NEW COOLING TOWER FAN "CT-1 (CELL 1)" & "CT-1 (CELL 2)" DISCONNECT, WIRE AND CONDUIT. 30A/480Y277V/3P/NEMA 13R/NF. MOUNT DISCONNECT ON KINDORF STRUT.
- 2 PROVIDE NEW WEATHER PROOF RECEPTACLE. CIRCUIT TO EXISTING ROOF RECEPTACLE CIRCUIT. MOUNT DISCONNECT ON KINDORF
- 3 PROVIDE 120V POWER CONNECTION FOR MOTORIZED ISOLATION VALVES.
- PROVIDE NEW COOLING TOWER BASIN HEATER "CT-1 (CELL 1)" & "CT-1 (CELL 2)" DISCONNECT, WIRE AND CONDUIT. 30A/480Y277V/3P/NEMA 3R/NF. MOUNT DISCONNECT ON KINDORF STRUT.
- (5) provide 277V power connection to serve heat trace on cooling tower makeup water line.

PLUMBING KEYED NOTES:

- 1 NEW DOMESTIC COLD WATER LINE UP FROM MECH. ROOM. SIZE AS NOTED ON THE PLAN.
- 2 NEW DOMESTIC COLD WATER LINE TO TIE-IN TO CELL FOR MAKEUP WATER. SIZE AS NOTED ON THE PLAN.



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 DBR Project Number
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AUSTIN I.S.D.

DEPARTMENT OF CONSTRUCTION MANAGEMENT

DOBIE MIDDLE SCHOOL

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



N o.

Approved

REVISIONS

Issue Date

ADDENDUM 2 02/15/2019

 SHEET INFORMATION

 Date
 January 3, 2019

 Job Number
 18-1032

 Scale
 Drawn

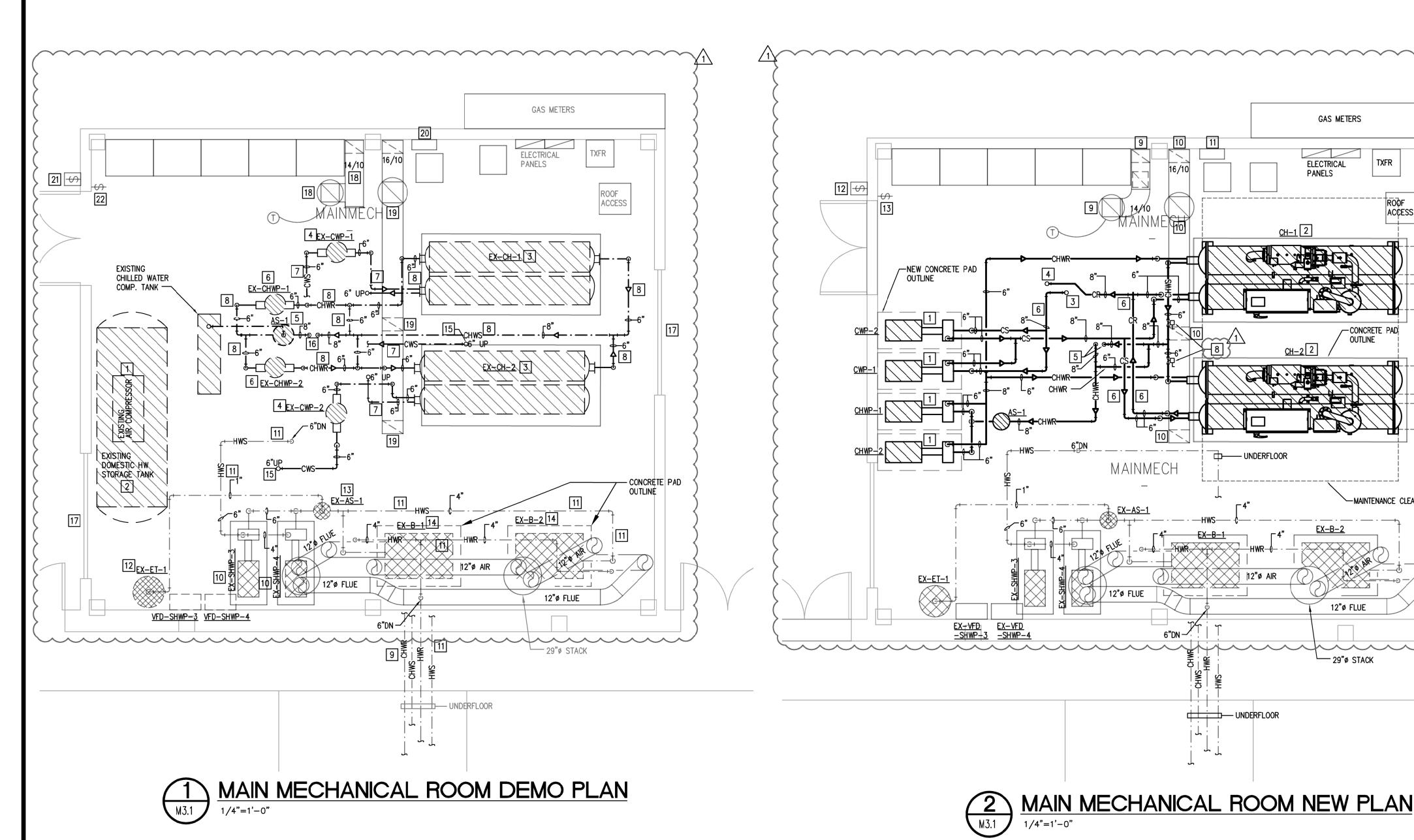
 Drawn
 DBR

 Checked
 SB

ENLARGED MEP NEW ROOF

SHEET

MEP2.3



NORMAL BUSINESS HOURS.

SHALL BE DELIVERED TO THE OWNER.

UPON CONSTRUCTION COMPLETION.

CONTRACTOR AND, AS NECESSARY, THE OWNER.

SYSTEMS, STRUCTURE, LIGHT FIXTURES AND PLUMBING LINES.

L. SMOKE DETECTORS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.

M. ALL NEW PIPING WITHIN MECHANICAL ROOM SHALL BE MOUNTED AS HIGH AS POSSIBLE.

DIAGRAMS AND SHEETS M6.2 & M6.3 FOR MECHANICAL FLOW DIAGRAMS.

A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EXISTING CONDUIT, LIGHTS, FIRE SPRINKLER PIPING,

CONDENSATE PIPING, EQUIPMENT, DUCTS, AND GRILLES, ETC. IT IS THE INTENT OF THESE DRAWNGS AND SPECIFICATIONS THAT UPON

OPERATION WHETHER OR NOT EVERY ITEM OF EQUIPMENT, ACCESSORY, DEVICE, ETC. IS SHOWN. REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE INCLUDING ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR COORDINATION AND POTENTIAL CONFLICTS. THE

MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO

C. WORK SHALL BE DONE SO AS TO MINIMIZE DISRUPTION TO BUILDING ACTIVITIES. KEEP BUILDING SERVICES IN FULL OPERATION DURING

SCHEDULE. SCHEDULE ALL SHUTDOWNS AT LEAST 48 HOURS IN ADVANCE WITH OWNER IN WRITING. REFER TO SPECIFICATIONS FOR

CONTRACTOR SHALL COORDINATE REMOVAL AND OFF-SITE DISPOSAL OF EXISTING MATERIALS PER CONSTRUCTION WASTE MANAGEMENT

SPECIFICATION SECTION 017419. OBTAIN APPROVAL OF OWNER'S REPRESENTATIVE BEFORE DISPOSING OF ITEMS. ITEMS TO KEEP

CONTRACTOR SHALL COORDINATE ROUTING OF ANY NEW PIPING OR DUCTWORK AT THE JOB SITE TO AVOID CONFLICT WITH EXISTING

COMPLETION: UPON COMPLETION OF THE WORK, AND PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL FURNISH TO THE OWNER IN

CONTRACTOR SHALL PROTECT EXISTING SECURITY CAMERAS DURING CONSTRUCTION AND SHALL CONFIRM CAMERAS ARE OPERATIONAL

N. NOT ALL SENSORS, VALVES AND PIPE ACCESSORIES ARE SHOWN IN FLOOR PLAN FOR CLARITY. REFER TO SHEET M4.1 FOR CONTROLS

D. SCHEDULING SHALL BE CLOSELY COORDINATED WITH THE OWNER AND NO WORK SHALL PROCEED WITHOUT AN OWNER-APPROVED

PROTECTION OF BUILDING PERSONNEL, FURNISHINGS AND SYSTEMS FROM HAZARD AND/OR CONTAMINATION ASSOCIATED WITH

CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL

THE FORM AND QUANTITIES REQUIRED BY THE SPECIFICATIONS: OWNER'S MANUAL AND PROJECT RECORD DRAWINGS.

DEMOLITION AND CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS.

PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK. FIELD VERIFY ALL DIMENSIONS BEFORE

B. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS BEFORE ANY DEMOLITION WORK BEGINS.

AREAS REQUIRING SPECIAL ACCESS, SCHEDULING, AND/OR SECURITY.

PROJECT COMPLETION, THE EXISTING MECHANICAL SYSTEMS, FIRE SPRINKLER PIPING, CONDUIT, DUCTWORK, ETC... BE READY FOR

1/3.1 - MECHANICAL KEYED NOTES - DEMO WORK:

- EXISTING ABANDONED AIR COMPRESSOR SHALL BE REMOVED. COMPRESSED AIR PIPING SHALL BE CAPPED AT WALL OR CEILING. ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED AND WIRES PULLED ALL THE WAY BACK TO THE BREAKER. HAND OVER COMPRESSOR TO SCHOOL DISTRICT SERVICE DEPARTMENT.
- 2 EXISTING STORAGE TANK SHALL BE REMOVED. ALL SUPPORTING STAND AND MATERIALS SHALL BE REMOVED. ANY CONNECTION TO THE TANK SHALL BE DISCONNECTED AT CEILING OR FLOOR LEVEL AND CAPPED.
- 3 EXISTING CHILLED WATER CHILLER SHALL BE REMOVED. ALL POWER CONNECTIONS SHALL BE DISCONNECTED.
- CONDENSER WATER PUMP SHALL BE REPLACED. PRIOR TO REPLACEMENT, EXISTING PUMP SHALL BE UTILIZED FOR FLUSHING ENTIRE SYSTEM. ASSOCIATED COOLING TOWER SHALL BE ISOLATED FOR COMPLETE BYPASS BEFORE PERFORMING FLUSHING. AFTER SYSTEM FLUSH AND TREATMENT, ALL ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED FROM PUMPS. ALL CONDENSING WATER PIPING SHALL BE BE REMOVED ALL THE WALL UP TO THE COOLING TOWER ON THE ROOF OF THE MECHANICAL ROOM.
- 5 CHILLED WATER AIR SEPARATOR SHALL BE REPLACED. ALL PIPING CONNECTIONS SHALL BE REMOVED.
- 6 CHILLED WATER PUMPS SHALL BE REMOVED. PRIOR TO REPLACEMENT, EXISTING PUMP SHALL BE UTILIZED FOR FLUSHING ENTIRE SYSTEM. ASSOCIATED COOLING TOWER SHALL BE ISOLATED FOR COMPLETE BYPASS BEFORE PERFORMING FLUSHING. ALL ELECTRICAL AND PIPING CONNECTIONS SHALL BE DISCONNECTED PRIOR TO REMOVAL OF
- 7 ALL CONDENSER WATER PIPING WITHIN THE MECHANICAL ROOM AND UP TO COOLING TOWER ON ROOF SHALL BE
- 8 ALL CHILLED WATER PIPING WITHIN THE MECHANICAL ROOM SHALL BE REMOVED.
- 9 UNDERGROUND CHILLED WATER PIPING TO REMAIN.
- 10 EXISTING HOT WATER PUMPS TO REMAIN.
- 11 EXISTING HOT WATER PIPING TO REMAIN.
- 12 EXISTING HOT WATER EXPANSION TANK TO REMAIN.
- 13 EXISTING HOT WATER AIR SEPARATOR TO REMAIN.
- [14] EXISTING GAS BOILERS AND ALL ASSOCIATED FLUE DUCTS TO REMAIN.
- 6" CONDENSER WATER PIPE UP TO COOLING TOWER ON THE ROOF SHALL BE REMOVED. CONTRACTOR SHALL UTILIZE THE EXISTING OPENING FOR NEW PIPING IF APPLICABLE WHEN NEW COOLING TOWER IS INSTALLED.
- 16 CHWS AND CHWR PIPING DOWN THROUGH THE FLOOR. CONTRACTOR TO CAP EXISTING PIPING AT FLOOR LEVEL. CAPPED
- LINES SHALL BE RECONNECTED UPON NEW PIPING INSTALLATION IN MECHANICAL ROOM.
- 17 EXISTING LOUVER CAN BE REMOVED AND REINSTALLED IF NECESSARY FOR EQUIPMENT REMOVAL.
- EXISTING EF-1 ON ROOF AND ASSOCIATED MECHANICAL ROOM VENTILATION SYSTEM TO REMAIN. EF-1 = 1,500 CFM. 12/12 EXHAUST REGISTERS AT 750 CFM EACH LOCATED AT 24" A.F.F. AND 24" BELOW ROOF STRUCTURE.
- EXISTING EF-2 ON ROOF AND ASSOCIATED MECHANICAL ROOM VENTILATION SYSTEM TO REMAIN. EF-2 = 2,000 CFM 12/12 EXHAUST REGISTERS AT 1,000 CFM EACH LOCATED AT 24" A.F.F.
- 20 EXISTING SENTECH REFRIGERANT MONITORING SYSTEM TO REMAIN. SEE NEW WORK FOR NEW SCOPE.
- 21 WEATHERPROOF EXISTING EMERGENCY TOGGLE SWITCH FOR EF-2 TO REMAIN.
- 22 EXISTING TOGGLE SWITCH FOR EF-1 TO REMAIN.

2/M3.1 - MECHANICAL KEYED NOTES - NEW WORK:

1 PROVIDE NEW 4" THICK CONCRETE PAD FOR NEW CHILLED WATER AND CONDENSER WATER PUMPS. PAD SHALL EXTEND 6" BEYOND FOOTPRINT OF PUMP FRAME. RE: DETAIL 5/M6.1.

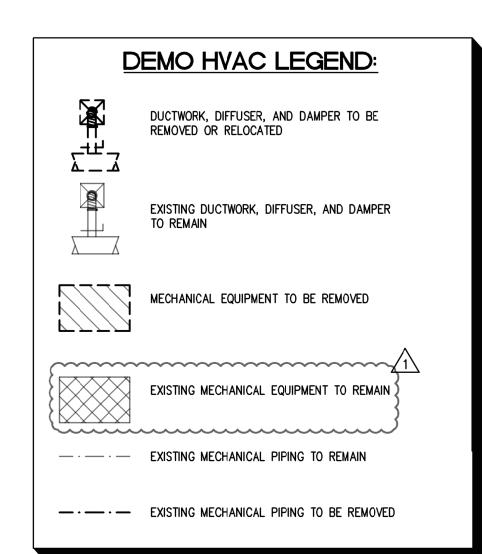
EXISTING LOUVER TO BE USED FOR EQUIPMENT

REMOVAL PATH AND INSTALLATION

- MAINTENANCE CLEARANCE

FOR TUBE REMOVAL

- 2 PROVIDE NEW CHILLERS AS SCHEDULED. PROVIDE NEW 4" THICK CONCRETE PAD FOR NEW EQUIPMENT. PAD SHALL EXTEND 6" BEYOND FOOTPRINT OF EQUIPMENT. RE: DETAIL 3/M6.1. CHILLERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN SAME LOCATION AS PREVIOUSLY REMOVED UNITS. PROVIDE ALL RECOMMENDED CLEARANCES ON SIDES OF UNIT WHILE MAXIMIZING TUBE REMOVAL ABILITY WITH EXISTING LOUVERS IN
- 3 CONDENSER WATER SUPPLY DOWN FROM COOLING TOWER ON ROOF ABOVE. SIZE AS SHOWN ON PLANS. COORDINATE WITH COOLING TOWER PLACEMENT ON ROOF TO ENSURE PIPE PENETRATION IS NOT UNDER TOWER.
- 4 CONDENSER WATER RETURN UP TO COOLING TOWER ON ROOF ABOVE. SIZE AS SHOWN ON PLANS. COORDINATE WITH COOLING TOWER PLACEMENT ON ROOF TO ENSURE PIPE PENETRATION IS NOT UNDER TOWER.
- 5 RECONNECT NEW CHILLED WATER SUPPLY AND RETURN PIPING TO EXISTING PIPE BEFORE EXISTING PIPING GOES BELOW SLAB. PROVIDE ALL FITTINGS AS REQUIRED TO TRANSITION AND MAKE COMPLETE CONNECTIONS.
- 6 RUN PIPING AS HIGH AND CLOSE TO STRUCTURE AS POSSIBLE. SUPPORT PIPING FROM STRUCTURE. CONDENSER WATER LINES SHALL BE ROUTED ABOVE CHILLED WATER SUPPLY AND RETURN IF POSSIBLE. COORDINATE PIPE CROSSINGS AS SHOWN ON DRAWINGS BEFORE MOUNTING ANY PIPE IN MECHANICAL ROOM.
- 7 UPON NEW CHILLER REPLACEMENT, CONTRACTOR SHALL VERIFY IF EXISTING LOUVERS HAVE ADEQUATE LENGTH FOR ENSURING ALL CHILLER'S ARE PROVIDED WITH REQUIRED CLEARANCES FOR TUBE REMOVAL. PROVIDE OPENING ENLARGEMENTS AND NEW LOUVER AS REQUIRED. LOUVER SHALL BE IDENTICAL TO REMOVED UNIT.
- 8 PROVIDE MOTORIZED ISOLATION VALVES AS SHOWN ON DRAWINGS. REFER TO SHEET M4.1 FOR CONTROLS DIAGRAM. COORDINATE WITH ELECTRICAL FOR POWER REQUIREMENTS.
- EXISTING EF-1 ON ROOF AND ASSOCIATED MECHANICAL ROOM VENTILATION SYSTEM TO REMAIN. EF-1 = 1,500 CFM. 12/12 EXHAUST REGISTERS AT 750 CFM EACH (QUANTITY 2) LOCATED AT 24" A.F.F. AND 24" BELOW ROOF STRUCTURE. MECHANICAL CONTRACTOR SHALL ENSURE FAN IS IN GOOD OPERATING CONDITION. 120/1/60, \(\frac{1}{3}\) HP, 0.25"
- 10 EXISTING EF-2 ON ROOF AND ASSOCIATED MECHANICAL ROOM VENTILATION SYSTEM TO REMAIN. EF-2 = 3,000 CFM. 12/12 EXHAUST REGISTERS AT 1,000 CFM EACH (QUANTITY 3) LOCATED AT 24" A.F.F. CONTRACTOR SHALL ENSURE FAN IS IN GOOD OPERATING CONDITION. 120/1/60, 3 HP, 0.5 S.P.
- [1] EXISTING SENTECH REFRIGERANT MONITORING SYSTEM. MECHANICAL CONTRACTOR SHALL VERIFY THAT EXISTING EF-1 IS POWERED SO THAT IT CAN BE CONTROLLED BY EITHER THE EXISTING EMERGENCY TOGGLE SWITCH (OUTSIDE NEXT TO THE ENTRANCE DOOR) OR AUTOMATICALLY BY THE EXISTING LINE VOLTAGE THERMOSTAT MOUNTED ON STRUCTURAL BEAM ABOVE. MECHANICAL CONTRACTOR SHALL VERIFY THAT EXISTING EF-2 IS POWERED SO THAT IT CAN BE TURNED ON BY EITHER THE EMERGENCY TOGGLE SWITCH (OUTSIDE NEXT TO THE ENTRANCE DOOR) OR AUTOMATICALLY BY THE REFRIGERANT MONITOR ALARM.
- 12 WEATHERPROOF EXISTING EMERGENCY TOGGLE SWITCH FOR EF-2 TO REMAIN.
- 13 EXISTING TOGGLE SWITCH FOR EF-1 TO REMAIN.



HVAC LEGEND

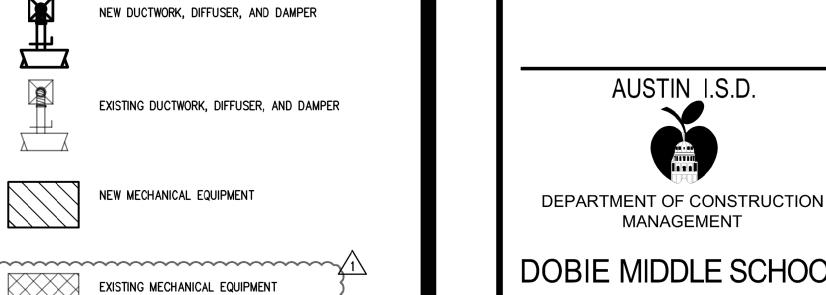
NEW DUCTWORK, DIFFUSER, AND DAMPER

NEW MECHANICAL EQUIPMENT

EXISTING MECHANICAL EQUIPMENT

— · — · — EXISTING MECHANICAL PIPING

NEW MECHANICAL PIPING



DOBIE MIDDLE SCHOOL

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1816.000

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE

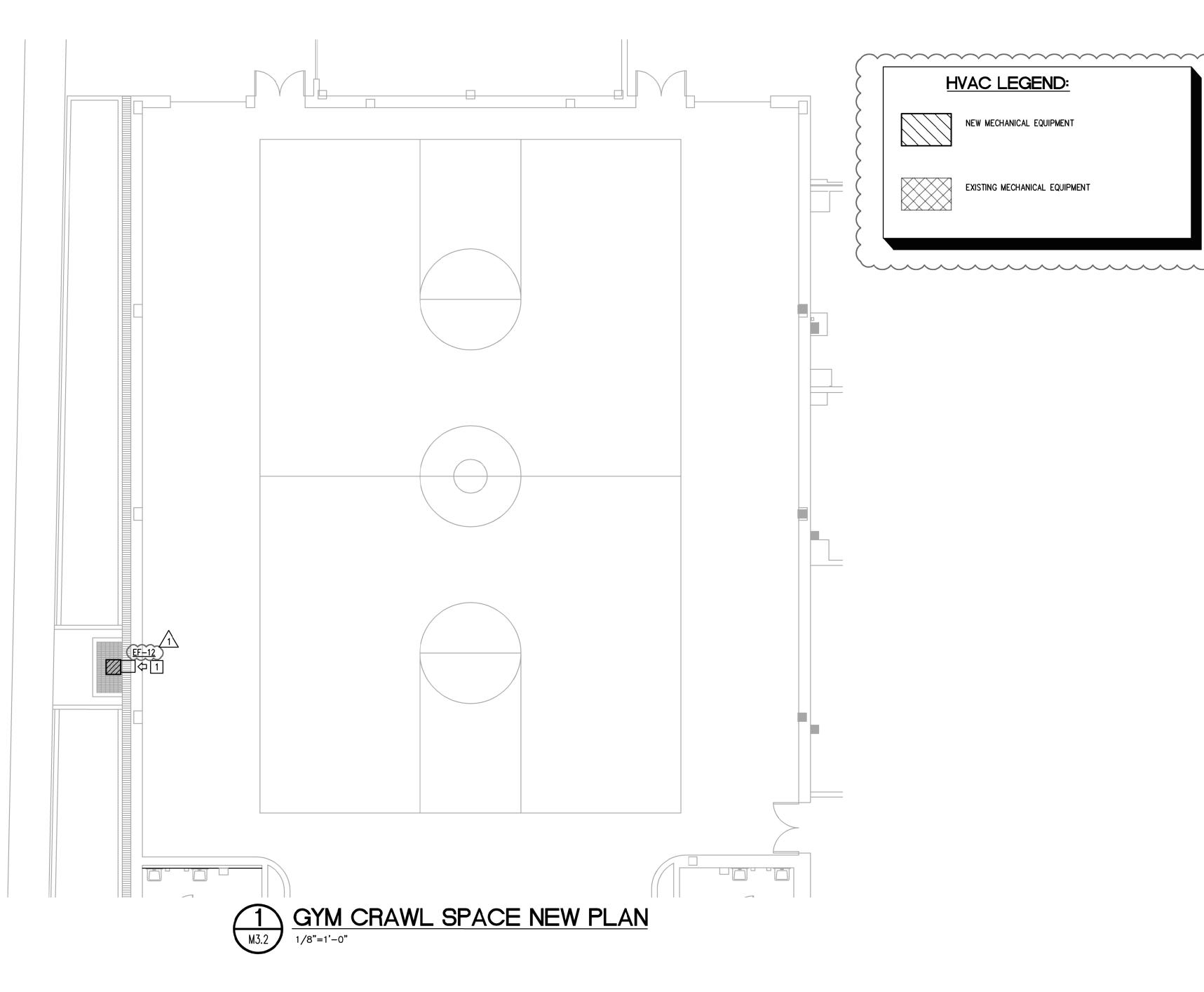


REVISIONS

No.	Issue	Dat
1	ADDENDUM 2	02/15/2019
	SHEET INF	ORMATIO
Date		January 3, 201
Job Number		18-103
Scale		
Drawn		DBR
Checked		SB
Approved		MC

DEMO & NEW MECHANICAL PLANS

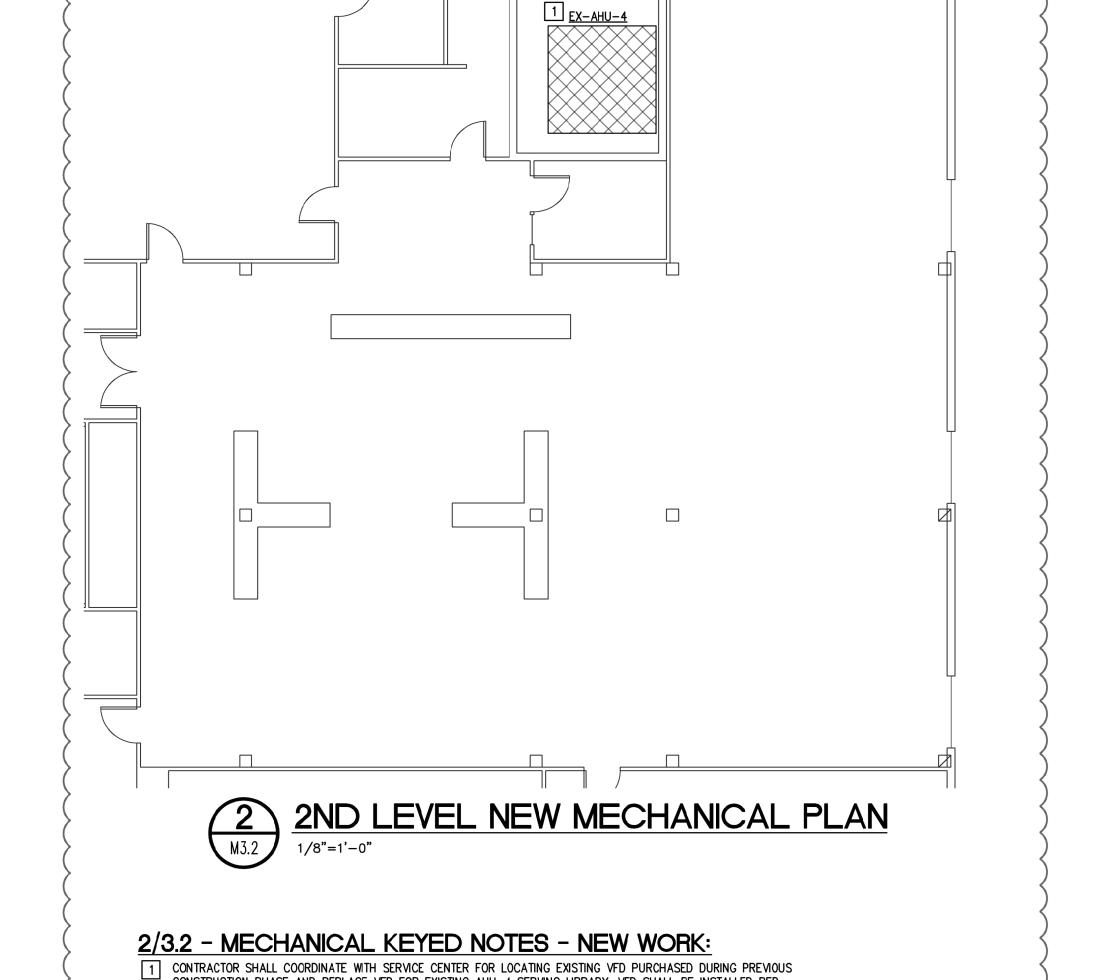
SHEET



- A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EXISTING CONDUIT, LIGHTS, FIRE SPRINKLER PIPING, CONDENSATE PIPING, EQUIPMENT, DUCTS, AND GRILLES, ETC. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT UPON PROJECT COMPLETION, THE EXISTING MECHANICAL SYSTEMS, FIRE SPRINKLER PIPING, CONDUIT, DUCTWORK, ETC... BE READY FOR OPERATION WHETHER OR NOT EVERY ITEM OF EQUIPMENT, ACCESSORY, DEVICE, ETC. IS SHOWN. REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE INCLUDING ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.
- B. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS BEFORE ANY DEMOLITION WORK BEGINS.
- C. WORK SHALL BE DONE SO AS TO MINIMIZE DISRUPTION TO BUILDING ACTIVITIES. KEEP BUILDING SERVICES IN FULL OPERATION DURING NORMAL BUSINESS HOURS.
- D. SCHEDULING SHALL BE CLOSELY COORDINATED WITH THE OWNER AND NO WORK SHALL PROCEED WITHOUT AN OWNER-APPROVED SCHEDULE. SCHEDULE ALL SHUTDOWNS AT LEAST 48 HOURS IN ADVANCE WITH OWNER IN WRITING. REFER TO SPECIFICATIONS FOR AREAS REQUIRING SPECIAL ACCESS, SCHEDULING, AND/OR SECURITY.
- E. PROTECTION OF BUILDING PERSONNEL, FURNISHINGS AND SYSTEMS FROM HAZARD AND/OR CONTAMINATION ASSOCIATED WITH DEMOLITION AND CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS.
- F. CONTRACTOR SHALL COORDINATE REMOVAL AND OFF-SITE DISPOSAL OF EXISTING MATERIALS PER CONSTRUCTION WASTE MANAGEMENT SPECIFICATION SECTION 017419. OBTAIN APPROVAL OF OWNER'S REPRESENTATIVE BEFORE DISPOSING OF ITEMS. ITEMS TO KEEP SHALL BE DELIVERED TO THE OWNER.
- G. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND, AS NECESSARY, THE OWNER.
- H. CONTRACTOR SHALL COORDINATE ROUTING OF ANY NEW PIPING OR DUCTWORK AT THE JOB SITE TO AVOID CONFLICT WITH EXISTING SYSTEMS, STRUCTURE, LIGHT FIXTURES AND PLUMBING LINES.
- I. COMPLETION: UPON COMPLETION OF THE WORK, AND PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL FURNISH TO THE OWNER IN THE FORM AND QUANTITIES REQUIRED BY THE SPECIFICATIONS: OWNER'S MANUAL AND PROJECT RECORD DRAWINGS.
- J. NEW HVAC DUCTWORK, UNLESS NOTED OTHERWISE, TO BE GALVANIZED SHEET METAL SIZED, CONSTRUCTED, AND INSTALLED IN ACCORDANCE WITH THE SMACNA RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. SIZES SHOWN ON PLANS ARE INSIDE CLEAR DIMENSIONS. ROUTE DUCTWORK SO AS TO MINIMIZE OFFSETS. FIELD VERIFY ROUTING ABOVE EXISTING CEILING. SEAL ALL DUCT SEAMS AIR TIGHT: MAXIMUM AIR LEAKAGE RATE = 5%.
- K. CONTRACTOR SHALL PROTECT EXISTING SECURITY CAMERAS DURING CONSTRUCTION AND SHALL CONFIRM CAMERAS ARE OPERATIONAL UPON CONSTRUCTION COMPLETTION.
- L. SMOKE DETECTORS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.

1/3.2 - MECHANICAL KEYED NOTES - NEW WORK:

PROVIDE EXHAUST FAN <u>EF-12</u> FOR GYM CRAWL SPACE AS SHOWN ON PLANS. FAN SHALL BE INSTALLED IN AREAWAY. FAN TO BE SUPPORTED FROM GROUND VIA STANDING SPRING ISOLATORS. CONNECT AND TRANSITION 17"X17" EXHAUST DUCT FROM FAN THRU EXTERIOR WALL PERIMETER BEAM TO DRAW AIR FROM THE CRAWL SPACE OUT THROUGH THE NEW AREAWAY. FAN SHALL BE SIZED AS SCHEDULED ON SHEET M5.1. DISCONNECT SHALL BE INSTALLED IN AN ACCESSIBLE SPACE IN THE AREA WAY. PROVIDE EXTERIOR RATED ENCLOSURE.



CONSTRUCTION PHASE AND REPLACE VFD FOR EXISTING AHU-4 SERVING LIBRARY. VFD SHALL BE INSTALLED PER

MANUFACTURER'S INSTALLATION INSTRUCTIONS AND BE UTILIZED FOR SOFT START ONLY DURING STANDARD

OPERATION. COORDINATE WITH ELECTRICAL.



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TBPE Firm No. 928



DEPARTMENT OF CONSTRUCTION MANAGEMENT

DOBIE MIDDLE SCHOOL

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



REVISIONS

Issue Date

ADDENDUM 2 02/15/2019

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	SHEET INFORMATION
ate	January 3, 2019
ob Number	18-1032
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hecked	SB
pproved	MC
	TITLE

DEMO & NEW MECHANICAL PLANS

SHEET

M3.2

														MAK	E UP A	AIR UN	IT SCH	HEDU	LE											
				FAN	1					coo	LING COIL	(DX)				MODULA	TING CON	DENSER I	REHEAT COIL	HEA	ATING COIL (ELI	ECTRIC)		ELECTRICAL	-		PHYS	SICAL DATA		
			OA AIR	EXT. SP	DRIVE	MOTOR	EDB	EWB	LDB	LWB	SENS.	HGRH CAP.	TOT. CAP.	MIN. #	EFF.	E	AT	ΙΔΤ	TOTAL CAP.	CAP.	TEMP	MIN. #	VOLTS/	MCA	MOCP	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS)	NOTES
MARK	MODEL	CONFIGURATION	CFM	IN. H2O	TYPE	HP	(°F)	(°F)	(°F)	(°F)	(MBH)	(MBH)	(MBH)	ROWS	(EER)	DB	WB	(DB)	(MBH)	(KW)	HEAT RISE	STAGES	PH			LENGTH (IIV.)	VVIDITT (IIV.)	FILIGITI (IIV.)	WEIGHT (EBS)	NOTES
MUA-1, MUA-2	VX-112-10I	DOWN DISCHARGE	1440	1.5	Direct	2	98	78	54.6	54.4	68.8	52	120.8	4	11.2	54.6	54.4	88.6	52.8	25.0	54.8	SCR	460/3	42.9	45	120.7	86.4	65.9	2373	ALL
MUA-3	VX-212-20I	DOWN DISCHARGE	2640	1.0	Direct	3	98	78	51.8	51.7	134.6	105.4	240	6	11.1	51.8	51.7	88.2	104.0	50.0	60.0	SCR	460/3	68.4	70	136.1	98.3	76.2	3546	ALL

- 1. FURNISH UNIT WITH DRAIN PAN OVERFLOW SWITCH.
- 2. FURNISH UNIT WITH ONE INVERTER SCROLL COMPRESSOR.
- 3. FURNISH W/ VFD AS SPECIFIED.
- 4. FURNISH UNIT WITH 2" MERV 13 FILTERS.
- 5. FURNISH UNIT WITH CURB ADAPTER.
- 6. FURNISH W/ 24V MOTORIZED PARALLEL BLADE DAMPER ON INTAKE OF THE UNIT.
- 7. FURNISH UNIT WITH BACNET MSTP
- 8. FURNISH SINGLE POINT CONNECTION WITH UNIT MOUNTED DISCONNECT SWITCH.
- 9. CONDENSER AMBIENT TEMPERATURE TO BE 105 F.
- 10. FURNISH UNIT WITH GFCI RECEPTICAL. 120V POWER BY UNIT.
- 11. FURNISH UNIT WITH AIRFLOW MONITORING STATION INLET DAMPER.
- 12. FURNISH UNIT WITH DRAIN PAN OVERFLOW SWITCH.

	ED CHILLER SCHEDU	I		
MARK	CH-1	CH-2		
UNIT LENGTH (IN.)	164.6	164.6		
UNIT WIDTH (IN.)	55.6	55.6		
UNIT HEIGHT (IN.)	72.7	72.7		
COMPRESSOR TYPE	SCREW	SCREW		
COOLING CAPACITY (TONS)	193	193		
NUMBER OF COMPRESSORS	2	2		
NUMBER OF STAGES	2	2		
FL (KW/TON)	0.653	0.653		
IPLV (KW/TON)	0.376	0.376		
EVAPORATOR DATA				
DESIGN FLOW RATE (GPM)	465	465		
MINIMUM FLOW RATE (GPM)	330	330		
ENTERING WATER TEMPERATURE (°F)	54.0	54.0		
LEAVING WATER TEMPERATURE (°F)	44.0	44.0		
MAX PRESSURE DROP (FT. H2O W.G.)	15.5	15.5		
FOULING FACTOR (HR-SQFT-F/BTU)	0.0001	0.0001		
NUMBER OF PASSES	2	2		
REFRIGERANT TYPE	R134A	R134A		
CONDENSER DATA				
DESIGN FLOW RATE (GPM)	580	580		
MINIMUM FLOW RATE (GPM)	240	240		
ENTERING WATER TEMPERATURE (°F)	85.0	85.0		
LEAVING WATER TEMPERATURE (°F)	95.0	95.0		
MAX PRESSURE DROP (FT. H2O W.G.)	16.6	16.6		
FOULING FACTOR (HR-SQFT-F)/BTU	0.00025	0.00025		
ELECTRICAL DATA	•			
MCA (MINIMUM CIRCUIT AMPACITY)	213	213		
MOCP (MAX OVER CURRENT PROTECTION)	350	350		
MOTOR STARTER	VFD	VFD		
VOLTS/PHASE/HERTZ	480/3/60	480/3/60		
MANUFACTURER	JCI-YORK	JCI-YORK		
MODEL NUMBER	YVWADDDDGXJE0193SA	YVWADDDDGXJE0193SA		
NOTES	ALL	ALL		

- 1. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
- 2. PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION AND CONTROL POWER TRANSFORMER.
- 3. PROVIDE FACTORY INSTALLED RUPTURE DISK PER ASHRAE 15. 4. PROVIDE WITH PREMIUM EFFICIENCY COMPRESSOR MOTOR.
- 5. PROVIDE WITH SINGLE STAGE FLASH ECONOMIZER.
- 6. PROVIDE WITH INTEGRAL VFD.
- INICATION FOR 7. PROVII

Ο.	: I I COVIDE WITH INTEGRALE VI D.			
7.	PROVIDE WITH CONTROLLER BY MANUFACTURER	. CONTROLLER SHALL BE CA	PABLE OF BACNET COMMUN	11
	INTEGRATION WITH EMCS.			

COOLING TOWER	RSCHEDULE
MARK	CT-1
GPM PER CELL	580
EWT (°F)	95
LWT (°F)	85
AMBIENT AIR WB (°F)	79
NUMBER OF CELLS	2
TONS/CELL	193
MOTOR HORSEPOWER/CELL	7.5
BASIN HEATER POWER (KW) / PER CELL	6
VOLTS/PHASE/HERTZ	460/3/60
MANUFACTURER	BAC
MODEL NO.	XES3E-8518-05J
NOTES	1,2,3,4,5

- 1. PROVIDE VARIABLE FREQUENCY DRIVES FOR FAN MOTORS. CONTROLLER
- SHALL BE BACNET CAPABLE FOR INTEGRATION WITH EMCS. 2. PROVIDE EACH CELL WITH STAINLESS STEEL BASIN & BASIN HEATER.
- 3. PROVIDE COOLING TOWER WITH BLOW DOWN METER.
- 4. PROVIDE 12" DIA. EQUALIZATION PIPE CONNECTION BETWEEN CELLS WITH
- BUTTERFLY TYPE ISOLATION VALVE.
- 5. PROVIDE TOWER WITH OPTIONAL CONDENSER WATER BY-PASS CONNECTIONS TO SUMP. ONE CONNECTION PER TOWER CELL.

	PUMP SCH	EDULE		
MARK	CHWP-1	CHWP-2	CWP-1	CWP-2
TYPE	END SUCTION	END SUCTION	END SUCTION	END SUCTION
FLOW GPM	465	465	580	580
HEAD (FT. H ₂ O)	135	135	50	50
APPROX PUMP EFF. (%)	75	75	84	84
APPROX IMPELLER DIA. (INCHES)	12.52	12.52	8.91	8.91
MOTOR HORSEPOWER	30	30	15	15
MOTOR RPM	1750	1750	1750	1750
MOTOR CONTROL (VFD, STARTER, OR MCC)	YASKAWA VFD	YASKAWA VFD	YASKAWA VFD	YASKAWA VFD
VOLTS/PHASE/HERTZ	480/3/60	480/3/60	480/3/60	480/3/60
MANUFACTURER	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG
PUMP SERIES	4030	4030	4030	4030
PUMP SIZE	4X3X13L	4X3X13L	5X4X10	5X4X10
NOTES	ALL	ALL	ALL	ALL

NOTES:

- 1. PROVIDE OSHA APPROVED COUPLING GUARD
- 2. PROVIDE PUMP WITH STAINLESS STEEL SHAFT AND SLEEVE
- 3. PROVIDE GALVANIZED BASE AND DRAIN PAN WITH THREADED OPENING
- 4. PROVIDE STRUCTURAL STEEL BASE WITH OPENINGS FOR FIELD GROUTING 5. PROVIDE BALDOR SUPER E OR EQUIVALENT TYPE ODP MOTOR
- 6. PROVIDE CONTROLLER WITH CAPABLE OF BACNET COMMUNICATION FOR INTEGRATION WITH EMCS.

	FAN SCH	EDULE		
MARK	EF-6	EF-7	EF-2-DM	EF-12
SERVES	KITCHEN HOOD	KITCHEN HOOD	KITCHEN HOOD	GYM CRAWL SPACE
TYPE/DRIVE	CENTRIFUGAL/BELT	CENTIFUGAL/BELT	CENTRIFUGAL BELT	DIRECT DRIVE
CFM	5200	5,200	2,200	2,000
EXT. S.P. (IN. W.G.)	0.5	0.500	1.000	0.625
HORSEPOWER	1.5	1 1/2	3/4	3/4
RPM (MAX.)	1725	1,725	1,391	1,725
SONES (MAX.)	16.5	16.5	14.2	16.4
VOLTS/PHASE/HERTZ	460/3/60	460/3/60	460/3/60	460/3/60
MANUFACTURER	ACCUREX	ACCUREX	GREENHECK	GREENHECK
MODEL NUMBER	XRUB-220-15	XRUB-220-15	CUBE-161	SQ-130
NOTES	1-4	1-4	1-4	5

- 1. PROVIDE FAN WITH ROOF CURB OR CURB ADPATER AND CURB EXTENSION AS NEEDED.
- 2. PROVIDE FAN WITH GREASE TRAP; HEAT BAFFLE; HINGED BASE.
- 3. PROVIDE UNIT WITH NEMA 3R TOGGLE SWITCH
- 4. PROVIDE FAN WITH HIGH TEMP CURB SEAL; BEARINGS WITH GREASE FITTINGS 5. PROVIDE WITH STANDING SPRING ISOLATORS, DISCONNECT, INLET DUCT COLLAR.

AIR SEPAR	ATOR SCHEDULE
MARK	AS-1
SYSTEM	CHILLED WATER
MAX FLOW (GPM)	930
INLET/OUTLET SIZE (IN.)	6
MAX PRESSURE DROP (FT WG.)	5
MANUFACTURER	TACO
MODEL NO.	AC06-125
OPERATIONAL WEIGHT (LBS)	170

1, 2, 3

NOTES NOTES:

- 1. PROVIDE WITH 1" BALL VALVE AND BLOWDOWN PIPING TO NEAREST DRAIN.
- 2. PROVIDE WITH HIGH CAPACITY 107-A AIR VENT.
- 3. PROVIDE SEDIMENT SEPARATION DOWN TO 40 MICRONS.



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DOBIE MIDDLE SCHOOL

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



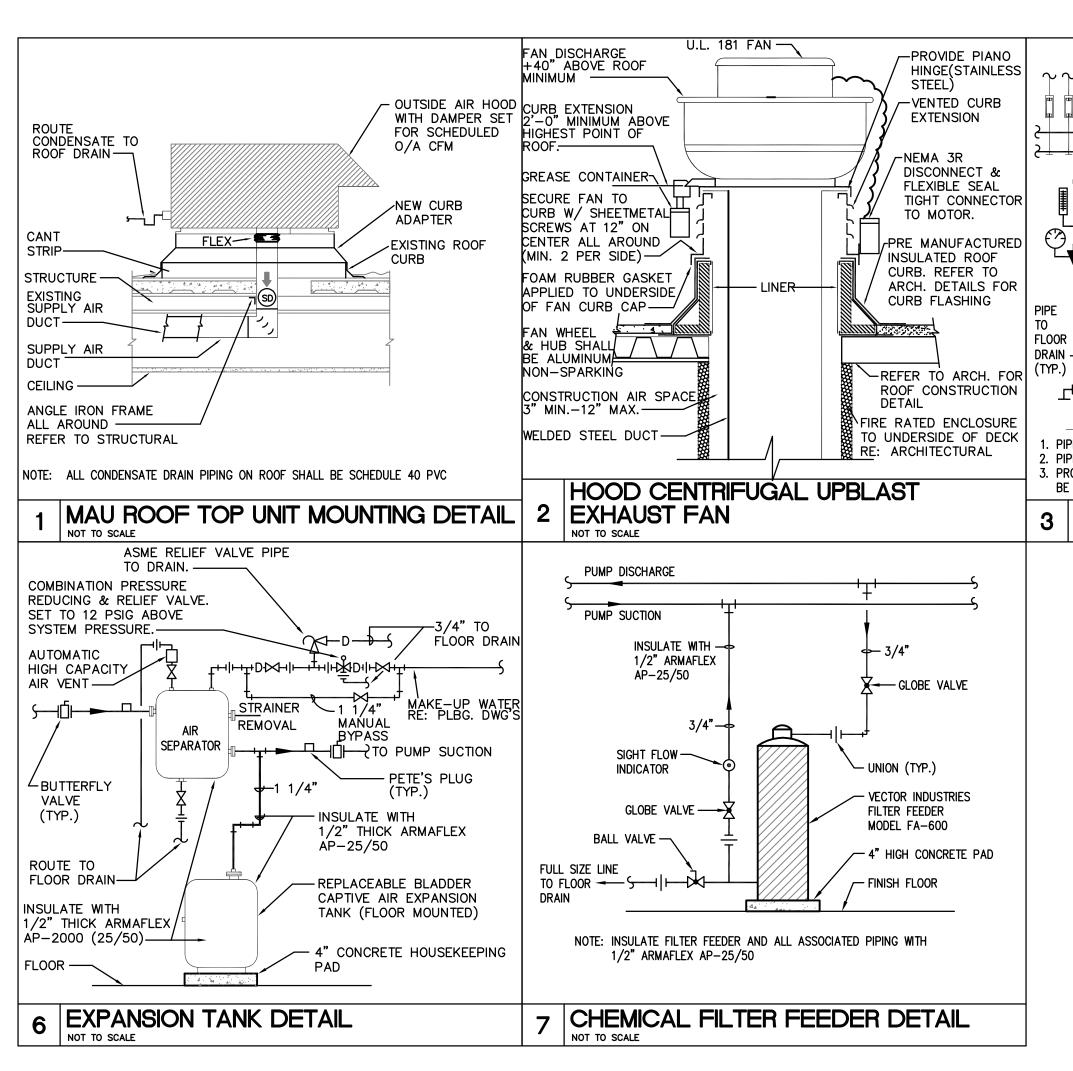
		REVISIONS
No.	Issue	Date
1	ADDENDUM 2	02/15/2019

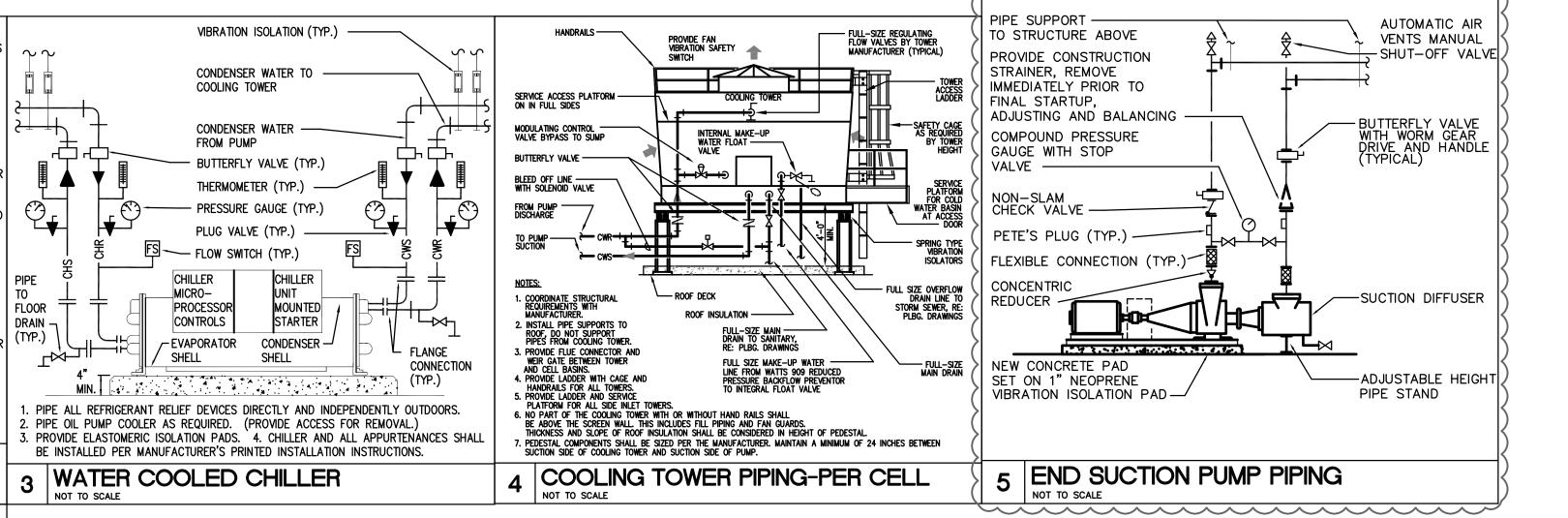
	SHEET INFORMATION
Date	January 3, 2019
Job Number	18-1032
Scale	
Drawn	DBR
Checked	SB
Approved	MC
	TITLE

MECHANICAL SCHEDULES

SHEET

M5.1

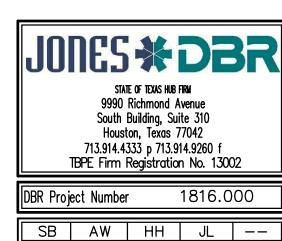






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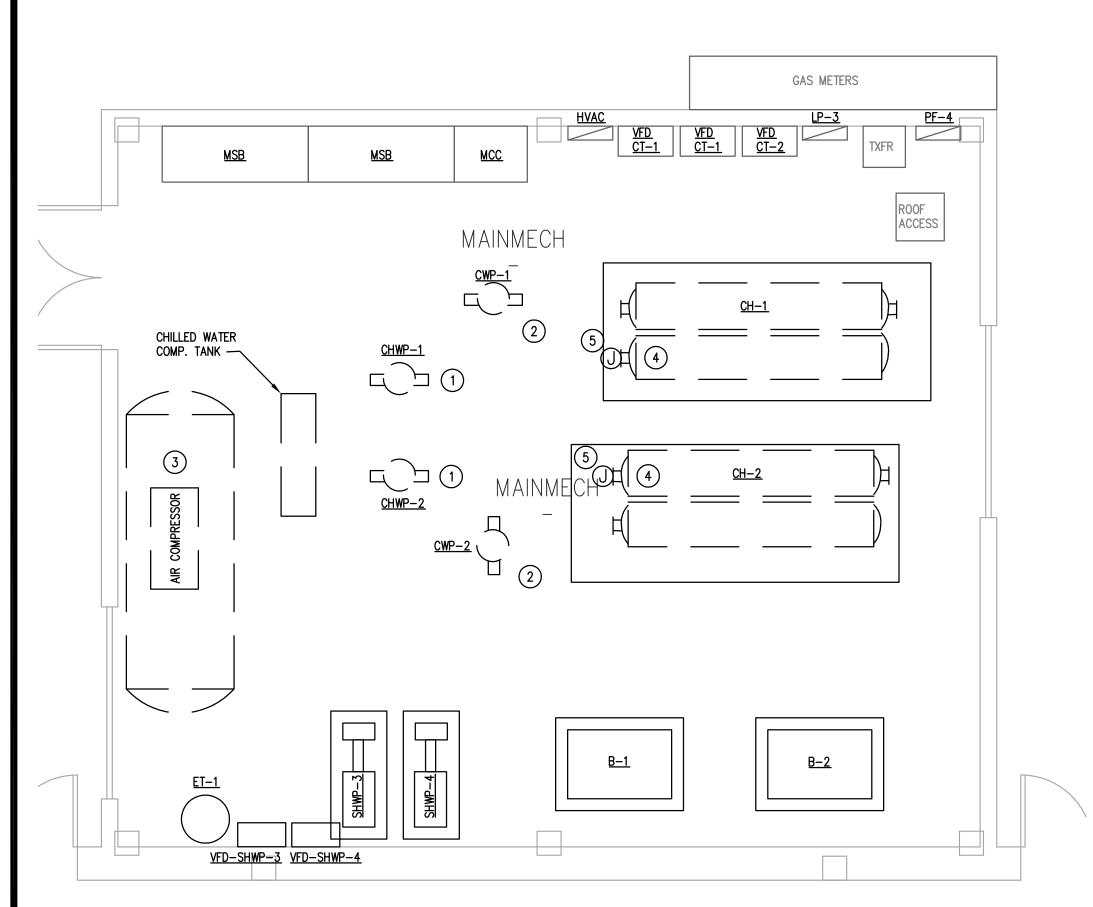
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No.	Issue	Date
1	ADDENDUM 2	02/15/2019
	SHEET IN	FORMATION

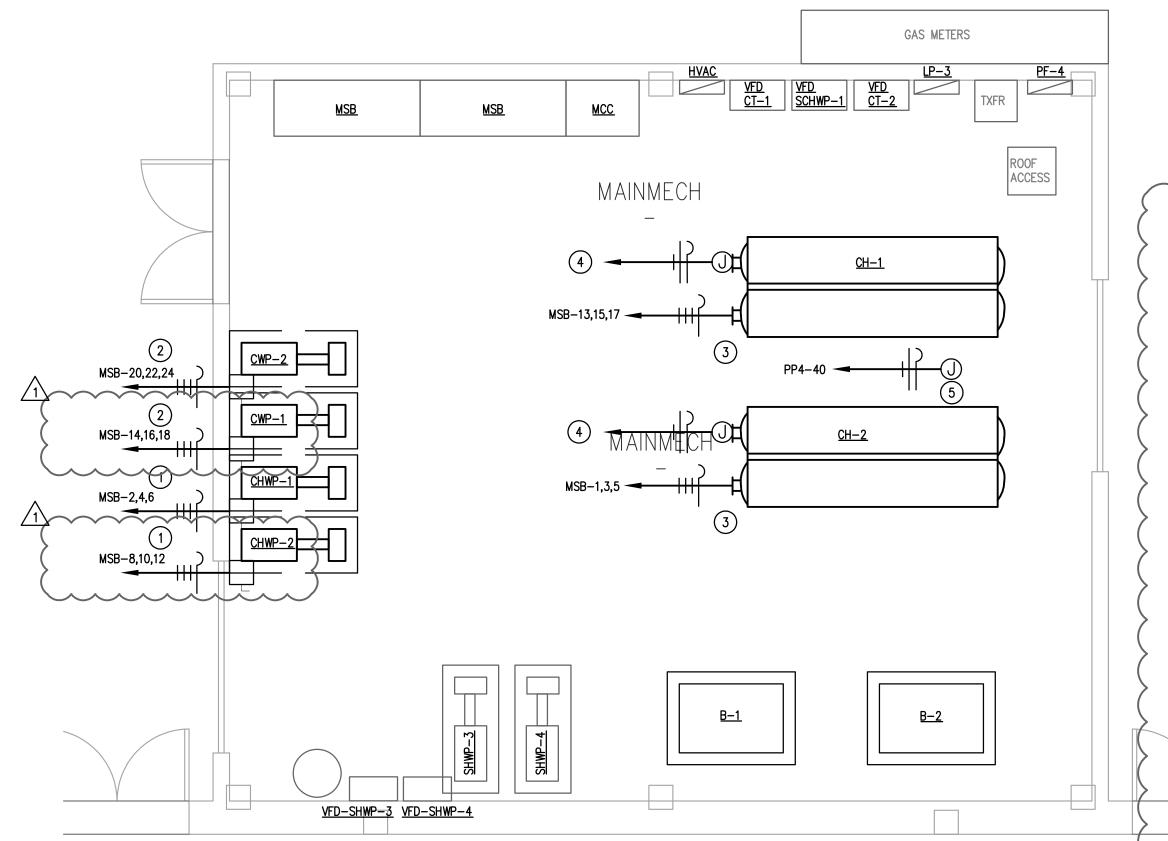
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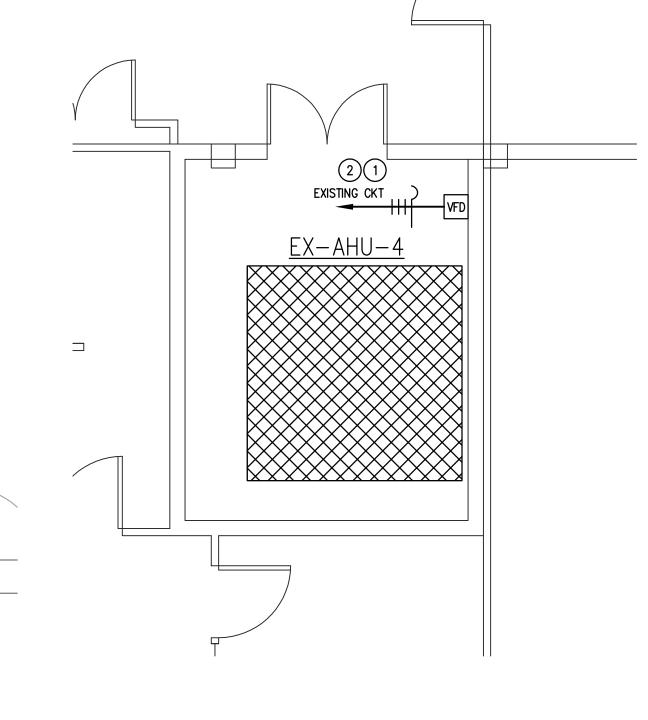
MECHANICAL DETAILS

SHEET

M6.1







MAIN MECHANICAL ROOM DEMO PLAN

1/4"=1'-0"

MAIN MECHANICAL ROOM NEW PLAN

1/4"=1'-0"

2 - ELECTRICAL KEYED NOTES - NEW WORK:

1) PROVIDE NEW CHILLED WATER PUMP "CHWP-1 & CHWP-2" DISCONNECT, WIRE AND CONDUIT. 60A/480Y277V/3P/NEMA 3R/NF. REFER TO MECHANICAL PLANS FOR VFD'S SERVING CHWP.

PROVIDE NEW CONDENSER WATER PUMP "CWP-1 & CWP-2" DISCONNECT, WIRE AND CONDUIT. 60A/480Y277V/3P/NEMA 3R/NF. REFER TO MECHANICAL PLANS FOR VFD'S SERVING CHWP.

(3) PROVIDE NEW CHILLER "CH-1 & CH-2" DISCONNECT, WIRE AND CONDUIT.
400A/480Y277V/3P/NEMA 3R/NF. VERIFY SIZE WITH FINAL MECHANICAL SUBMITTAL SPECIFICATION.

(4) EXISTING 120V CONTROL CIRCUIT TO REMAIN.

5) PROVIDE 120V POWER CONNECTIONS TO SERVE MOTORIZED ISOLATION VALVE.

3 - ELECTRICAL KEYED NOTES - NEW WORK:

2ND LEVEL NEW MECHANICAL PLAN

1/4"=1'-0"

CONTRACTOR SHALL COORDINATE WITH SERVICE CENTER FOR LOCATING EXISTING VFD PURCHASED DURING PREVIOUS CONSTRUCTION PHASE AND REPLACE VFD FOR EXISTING AHU-4 SERVING LIBRARY. VFD SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND BE UTILIZED FOR SOFT START ONLY DURING STANDARD OPERATION.

ELECTRICAL CONTRACTOR TO REUSE EXISTING WIRE, CONDUIT & CIRCUIT BREAKER SERVING EXISTING AHU-4. VFD SPECIFICATIONS SHALL HAVE THE CAPACITY TO SERVE AHU-4. COORDINATE WITH SERVICE CENTER, AHU MANUFACTURER, VFD MANUFACTURER & ENGINEER OF RECORD PRIOR TO INSTALLATION. UPON VFD & CIRCUIT CAPACITY NOT MEETING AHU REQUIREMENTS, AISD IS PAY FOR MEP DESIGN AND CONTRACTOR INSTALLATION OF SERVICE CENTER VFD.

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DEPARTMENT OF CONSTRUCTION MANAGEMENT

DOBIE MIDDLE SCHOOL

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



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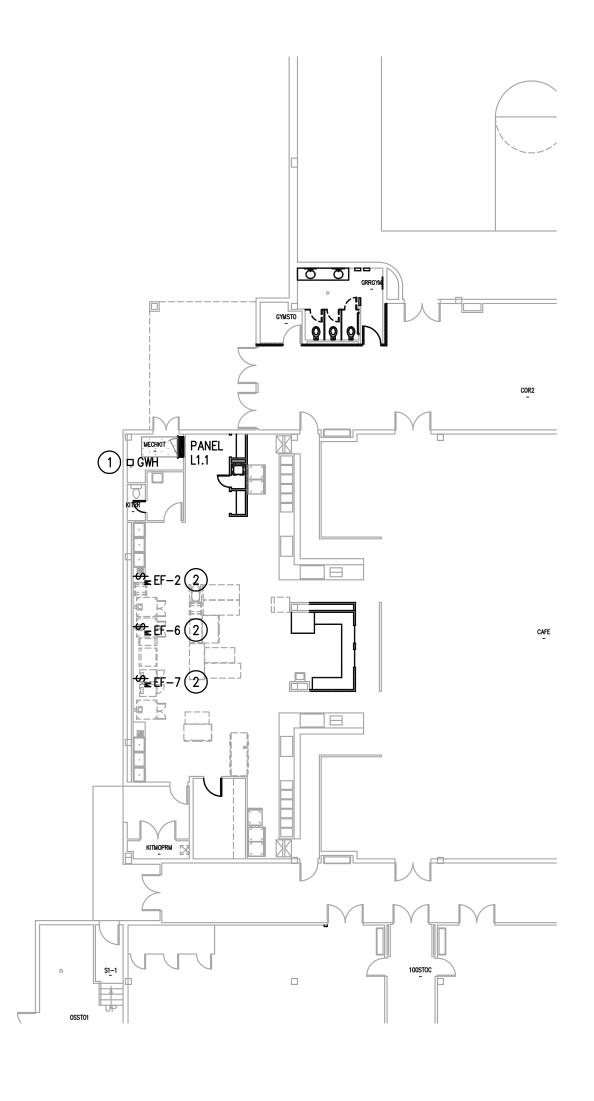
ENLARGED - ELECTRICAL PLANS

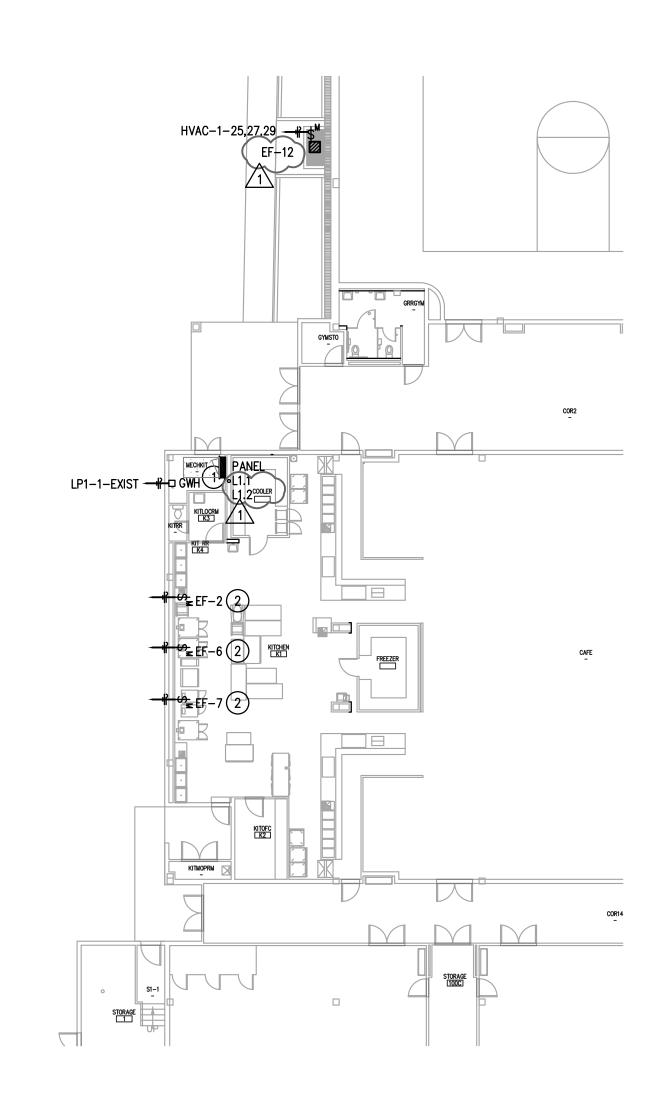
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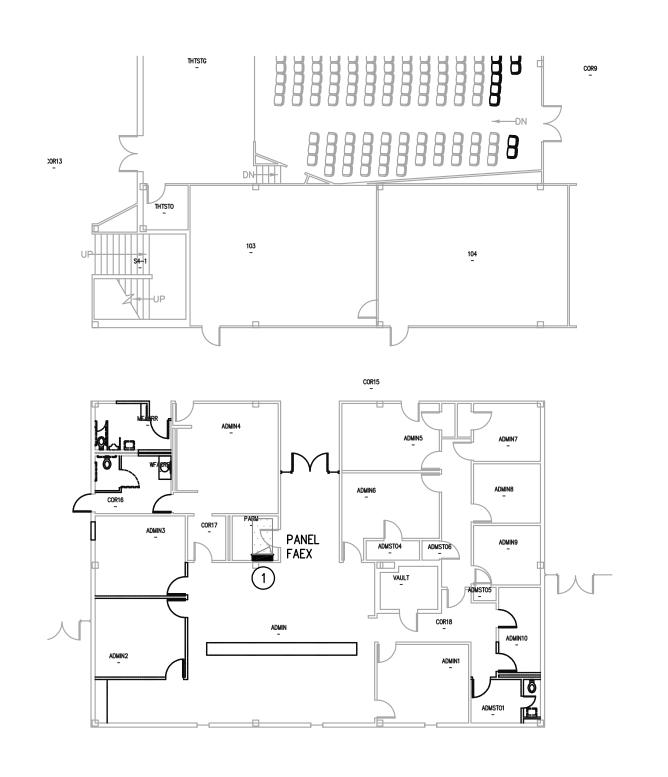
E3.1

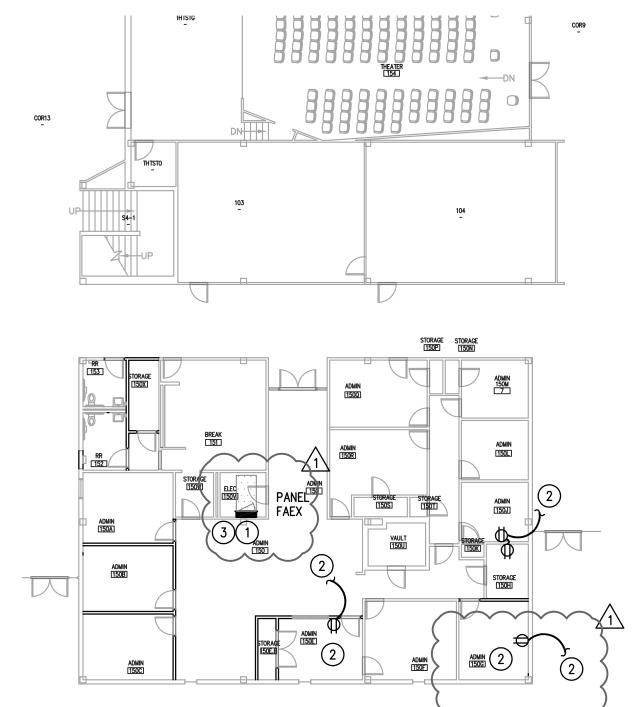


- 1 EXISTING CHILLER TO BE REPLACED. CHILLED WATER PUMP "CHWP-1 & CHWP-2" DISCONNECT, WIRE AND CONDUIT TO BE REMOVED BACK TO SOURCE PANEL.
- 2 EXISTING CONDENSER WATER PUMP TO BE REPLACED. CONDENSER WATER PUMP "CWP-1 & CWP-2" DISCONNECT, WIRE AND CONDUIT TO BE REMOVED BACK TO SOURCE PANEL.
- EXISTING AIR COMPRESSOR CIRCUIT TO BE REMOVED. AIR COMPRESSOR DISCONNECT, WIRE AND CONDUIT TO BE REMOVED BACK TO SOURCE PANEL.
- EXISTING CHILLER "CH-1 & CH-2" DISCONNECT, WIRE AND CONDUIT TO BE REMOVED. 400A/480Y277V/3P/NEMA 3R/NF.
- (5) EXISTING 120V CONTROL CIRCUIT TO REMAIN.











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RENOVATIONS

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REVISIONS Date No. lssue ADDENDUM 2 02/15/2019

SHEET INFORMATION January 3, 2019 18**-**1032 Job Number Scale Checked SB MC Approved

ENLARGED - ELECTRICAL PLANS

SHEET

E3.2



1 - ELECTRICAL KEYED NOTES - DEMO WORK:

1) EXISTING GAS WATER HEATER TO BE REPLACED. GAS WATER HEATER "GWH-1" POWER CONNECTION TO REMAIN FOR FUTURE USE.

2 EXISTING EXHAUST FAN TO BE REPLACED. EXHAST FAN "EF-2, EF-6, EF-7" POWER CONNECTION TO REMAIN FOR FUTURE USE. VERFIY BREAKER AND WIRE SIZE.



2 - ELECTRICAL KEYED NOTES - NEW WORK:

- 1) NEW GAS WATER HEATER. RECONNECT GAS WATER HEATER "GWH-1" TO EXISTING CIRCUIT PREVIOUSLY SERVING THE EXISTING GAS WATER HEATER.
- 2 EXISTING EXHAUST FAN TO BE REPLACED. EXHAST FAN "EF-2, EF-6, EF-7" POWER CONNECTION TO REMAIN FOR FUTURE USE. VERFIY BREAKER AND WIRE SIZE. REFER TO MEP ROOF PLAN FOR 'PANEL-CIRCUIT'.

ADMINISTRATION DEMO PLAN

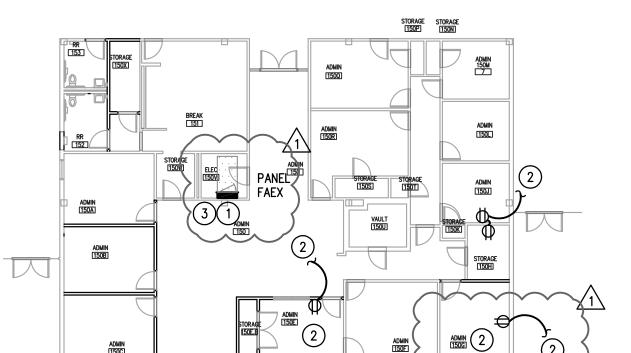
3 - ELECTRICAL KEYED NOTES - DEMO WORK:

1) EXISTING PANEL FAEX TO BE REPLACED. REMOVE EXISTING PANEL. FEEDER & CONDUIT TO REMAIN FOR RECONNECTION TO NEW PANEL FAEX.

ADMINISTRATION NEW PLAN 1/16"=1'-0"

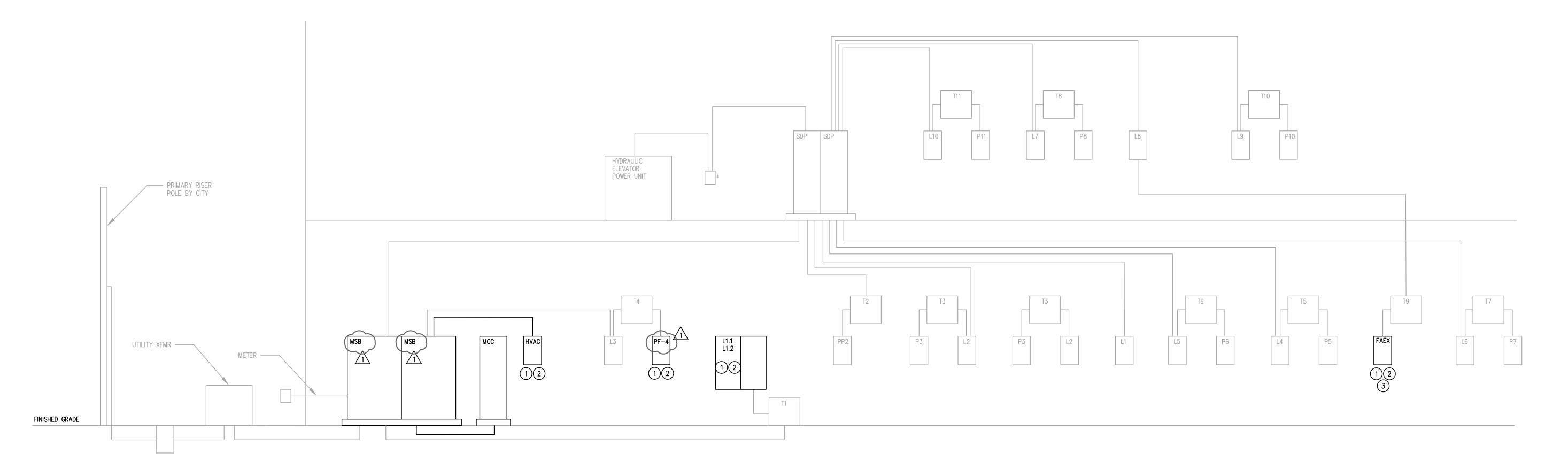
4- ELECTRICAL KEYED NOTES - NEW WORK:

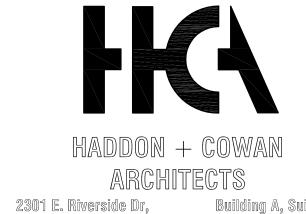
- 1 EXISTING PANEL FAEX "PP9" (42 POLES) TO BE REPLACED. PROVIDE NEW PANEL FAEX "PP9" (60 POLES). VERIFY WIRE & CONDUIT SIZE PRIOR TO RECONNECTION.
- 2 CONNECT TO NEAREST AREA EXISTING RECEPTACLE CIRCUIT. PROVIDE ADDITIONAL RECEPTACLE CIRCUITS IN ADMIN AREA AS NECESSARY. 3) PANEL FAEX CIRCUITS: REPLACE ALL 3/4" FLEXIBLE METAL CONDUIT WITH 3/4" EMT CONDUIT.



ELECTRICAL RISER DIAGRAM KEYED NOTES

- EXISTING PANEL CIRCUITS TO BE EFFECTED BY RENOVATION. REFER TO PANEL BOARD SCHEDULES.
- 2. AISD TO MONITOR ALL PANELS ASSOCIATED WITH PROJECT FOR 30 DAYS PRIOR TO RENOVATION. PANEL SHALL NOT EXCEED 80% CAPACITY. CONTACT ENGINEER OF RECORD UPON ANY DISCREPANCIES.
- 3. PANEL BOARD TO BE REPLACED. REFER TO PANEL BOARD SCHEDULE 'FAEX'.





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DEPARTMENT OF CONSTRUCTION MANAGEMENT

DOBIE MIDDLE SCHOOL

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



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ELECTRICAL ONE-LINE DIAGRAM

SHEET

E4.1

				Sw	vitchbo	oard	M	SE	3				6	Х	AIC Rating Existing New	I		
	;	Volt,3-Phase,4-\ 2 Section -Nema Rating	Wire	1600	МСВ	1600 1600 X	AMI			opper) 3US	ll l	Х	Singl Doub Feed		ı		Mounting X Surface Flush	g
Notes	Load (VA)	Descrip	otion	Туре	Wire	СВ	CKT #	PH (CKT #	СВ	V	Wire	Туре		Descrip	tion	Load (VA)	Notes
	59001	CH-1		c	500	350/3	1	A	2	50/3	<u>₹</u>	8	C	CHW	<u>v v</u> P-1	<u> </u>	11080	
	59001	"		c			3	В	4		┢		С	"			11080	+
	59001	111		С			5	C	6		┪		С	"			11080	
		PANEL SDP				400/3	7	A	8	50/3	3	8	С	CHW	P-2		14404	
		II .		1			9	В	10		┪		С	"			14404	
		u u					11	(c	12				С	17			14404	
	59001	CH-2		С	500	350/3	13	A	14	30/3		10^	e	CWP	<u> </u>		5817	
	59001	**		С			15	В	16				С	"			5817	
	59001	**		С			17	С	18				С	"			5817	
		SPACE					19	Α	20	30/3	3	10	С	CWP	-2		5817	
		li .					21	В	22				С	"			5817	
		li .					23	С	24				С	"			5817	
		SPACE				400/3	25	Α	26	60/3	3			SPAC	Œ			
		"					27	В	28					=				
		"					29	С	30					=				
		PANEL MTDP				400/3	31	Α	32	225/	3			PANE	EL LP4			
		l'					33	В	34					=				
		"					35	С	36					=				
		MCC				600/3	37	Α	38	100/	3			KITCI	HEN			
		"					39		40									
		"		lacksquare			41		42					<u>"</u>				
		PANEL HVAC				600/3	43	В	44	100/	3			PANE	<u>EL</u>			
		"					45		46									
	V V V		* * * *		~ ~ ~	V V	47		48	2010		<u> </u>		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		* * * *	2017	
	4000	CT - IM HT (CEL	LL 1)	M		20/3	49		50	20/3	<u> </u>			CI - I	FAN (CELL	. 1)	3047	_
	4000			M			51		52		_ _		٥	.,			3047	
	4000		11.2)	M		00/0	53		54	20/2	+		С		EANL/OFL!	2)	3047 3047	1
	4000	CT - IM HT (CEL	LL <i>2)</i>	M		20/3	55 57		56 58	20/3	` -		C	<u> </u>	FAN (CELL	. 4)	3047	
	4000 4000	"1		M			57 59	<u> </u>	60		╟		C	.,			3047	
	378,006	Subtotal		IVI			₂₈	С	00				L		Subtotal		129,636	\dashv
						∕ 5:&-			1 <u>-</u>							Fet.	Diversity	
	HE.C.	Load Type	Conn.		FCt.	Divers	ııy				1 \ 1 :				Corm.			
	III.	(R) Recept.	0		4000/	0		21	0.20	` ' `		ghting			0	125%	0	
	ll.	(K) Kitchen (C) Cooling	0 469.40	₁₇	100%	0 469 4	07	؍ ا	200.4	11 -		Ext. L	_		0	125% 100%	0	
	II.	` '	468,40	''	100%	468,4 0	U I	"	320.1	11 `		levato Wate			0	100%	0 0	
	II.	(H) Heating (F) Fans	0		0% 100%	0			220.5	11 '		vvate Lrg. M			0	125%	0	
4	II.	` '	II -		100%	_	0	'	∠∠∪.:	Ш,		-			0		III	
		(M) Misc.	4,000	1	100%	4,00	U				3P) S	Sub F	anel		0	100%	0	
		Total Connected Total Load (Dive			472,407 472,407				AMI AMI	- 11	Lo	ocatio	on of P	anel:				

			F	Pan	elbo	ard	Η	VA	/C				3		AIC Rating Existing New	J		
	277/480	Volt,3-Phase,4-\	Vire		MLO		AMI	Р МС	B			Х	Sing	le			Mounti	ng
		2 Section				600	AMI	P BU	S (C	oppei	r)		Douk	ole			X Surface	e
	1	I -Nema Rating				X	ISO	. GRI	ND. E	BUS			Feed	l - Thru	J		Flush	
Notes	Load (VA)	Descrip	tion	Туре	Wire	СВ	CKT #	РН	CKT #	CE	В	Wire	Туре		Descrip	tion	Load (VA) Notes
	18946	MAU-3		М	4	70/3	1	Α	2	45/	/3	8	М	MAU	-1		11883	
	18946	11		М			3	В	4				М	"			11883	
	18946	**		М			5	С	6				М	"			11883	
		RTU-2			4	80/3	7	Α	8	35/	/3	8		RTU-	4			
		ll					9	В	10					"				
		II .					11	С	12					"				
		RTU-1			8	45/3	13	Α	14	35/	/3	8		RTU-	3			
		li .					15	В	16					"				
		li li					17	С	18					"				
	11883	MAU-2		С	8	45/3	19	Α	20	20/	l II	12		II	LTS (EAS	•		
	11883	11		С			21	В	22	20/	/1	12		II	LTS (EAS	ST)		
	11883	11		С			23	С	24	20/	/3	12	F	EF-6			831	
	304	EF-12		F	12	20/3	25	Α	26				F	"			831	
	304	11		F			27	В	28				F	"			831	
	304	11		F			29	С	30	20/	/3	12	F	EF-7			831	
	500	CT HEAT TRAC	E	М	12	20/1	31	Α	32				F	"			831	
		SPACE					33	В	34				F	"			831	
		SPACE					35	С	36	20/	/3	12	F	EF-20	OM		304	
		SPACE					37	Α	38				F	"			304	
		SPACE					39	В	40				F	"			304	
		SPACE					41	С	42					SPAC	CE			
	93,899	Subtotal													Subtotal		41,547	
N	.E.C.	Load Type	Conn.		Fct.	Divers	sity	١	1.E.C).					Conn.	Fct.	Diversit	y
2:	20.44	(R) Recept.	0			0		21	0.20	(a)	(L)	Lighting	J		0	125%	ó)
2	20.56	(K) Kitchen	0		100%	0					(EL	.) Ext. L	.tg.		0	125%	, ()
2	20.60	(C) Cooling	35,649	9	100%	35,6	49	∥ 6	20.1	4	(E)	Elevato	rs		0	100%	6 ()
2	20.60	(H) Heating	0		0%	0					(WI	H) Wate	er Ht.		0	100%	6 ()
2	20.60	(F) Fans	6,810		100%	6,81	10] :	220.5	5	(MT	Γ) Lrg. N	/lot.		0	125%	6 ()
		(M) Misc.	92,987	7	100%	92,9	87				(SP) Sub F	Panel		0	100%	6 ()
	-11	Total Connected Total Load (Dive			135,446 135,446			3.0 3.0	AMI AMI			Location	on of F	anel:			·	

			P	and	elbo	ard	F	ΑE	X				1	0,000 AIC Rating Existing X New			
		3 Volt,3-Phase,4-\ 1 Section 1 -Nema Rating	Vire	100	MCB	100 100 X	AMF	P MC P BU: GRI	S (Co	opper) BUS)	Х	Singl Doub Feed			Mounting X Surface Flush	9
Notes	Load (VA)	·	tion	Туре	Wire	СВ	CKT #	PH	CKT #	СВ		Wire	Туре	Descript		Load (VA)	Notes
		TV SYSTEMS MASTER CLOC	K	R R	12 12	20/1 20/1	1	A B	2	20/1	· II	12 12		BURGLAR ALRI PLUGS - LOUNG			
		PA SYSTEM		R	12	20/1	5	С	6	20/1	ll ll	12	R	PLUGS - CONF.	RM. & STOR		
		PLUGS - COUN	SEL ROOM	R	12	20/1	7	A	8	20/1	ll ll	12		PLUGS - COUNS			$\vdash \vdash \vdash$
		PLUGS - SECRI		R	12	20/1	9	В	10	20/1	ll ll	12	R	FIRE ALARM PA			
		PLUGS - VICE F		R	12	20/1	11	С	12	20/1		12	R	120V COPIER			
		SPARE		R	12	20/1	13	Α	14	20/1	1	12	R	PLUGS - PRINC	IPAL		
		PTA ROOM		R	12	20/1	15	В	16	20/1	1	12	R	120V COPIER LO	OUNGE		
		EX-FAN & REF	LOUNGE	R	12	20/1	17	С	18	20/1	1	12	R	PLUGS - COPIE	R LOUNGE		
		CAF		R	12	20/1	19	Α	20	20/1	1	12	R	120V COPIER			
		COPIER		R	12	20/1	21	В	22	20/1	1	12	R	CHECK IN DESP	(
		PTA		R	12	20/1	23	С	24	20/1	1	12	R	PTA			
		SPARE					25	Α	26	20/1	ll ll	12		SPARE			
		SPARE					27	В	28	20/1	1	12		SPARE			
		SPARE					29	С	30	20/1	1	12		SPARE			
	0	Subtotal	•											Subtotal		0	
N	I.E.C.	Load Type	Conn.		Fct.	Divers	sity	N	I.E.C	;. <u> </u>				Conn.	Fct.	Diversity	
2	20.44	(R) Recept.	0			0		21	0.20	(a) ((L) L	ighting		0	125%	0	
	20.56	(K) Kitchen	0		100%	0				11 '		Ext. L	-	0	125%	0	
2	20.60	(C) Cooling	0		0%	0		6	20.14	4 ((E) E	Elevato	rs	0	100%	0	
	20.60	(H) Heating	0		0%	0				ш,	•	l) Wate		0	100%	0	
2	20.60	(F) Fans	0		100%	0		2	220.5	5 ((MT)	Lrg. IV	1ot.	0	125%	0	
		(M) Misc.	0		100%	0				((SP)	Sub P	anel	0	100%	0	
		Total Connected Total Load (Diver				VA = VA =	_		AMF AMF		ı	Locatio	on of P	anel:			

													1	0,000	AIC Rating			
			P	and	elbo	ard	PI	P4						Х	Existing			
			-	W 111		u . u	• •								New			
	277/480	Volt,3-Phase,4-V	Vire		MCB	150	AMF	N/C	·B			X	Singl				Mounting	7
		2 Section	VIIC		MCD					opper	۱ ۱	^	Doub				X Surface	9
		-Nema Rating				ZZ3		GRI			'∥			- Thru	ı		Flush	
		1				$\overline{}$	CKT		CKT		_			- 11110			1 10511	
Notes	Load (VA)	Descrip		Туре	Wire	СВ	#	PH	#	CB		Wire	Туре		Descrip [.]		Load (VA)	Notes
		BOILER ROOM	LIGHTS		12	20/1	1	Α	2	20/	- 11	12	II I			CENTRAL P		
		EF-1			12	20/1	3	В	4	20/	1	12	II I		CHERS			
		SPACE					5	C	6				II I	SPAC				
		UNDERFLOOR	LIGHTS		12	20/1	7	Α	8	20/	- 11	12	II I		S IN BOYS	ll ll		
		SPACE					9	В	10	20/		12	II I		ROL FOR	ll ll		
		SPACE					11	С	12	20/		12			IN TICKE	OFFICE		
		CKT			12	20/1	13	Α	14	20/		12			CHERS			
		VENT FAN CON			12	20/1	15	В	16	20/		12		SPAC				
		BOILER RM OU	TSIDE FLOO		12	20/1	17	С	18	20/	- 11	12			KING LOT L	ll ll		
		EF-2			12	20/1	19	Α	20	20/	- 11	12				ETBALL CO		
		FREON DETEC	TOR		12	20/1	21	В	22	20/	- 11	12				ETBALL CO		
		SPACE					23	С	24	20/	1	12	II I		RYER			
		BOILER #2			12	20/3	25	Α	26				II I	SPAC				
		"					27	В	28	20/	- 11	12			ER RM PLU	ll l		
		"					29	С	30	20/	1	12				VATER INJE(
		BOILER PUMP 7	#2		12	20/3	31	Α	32				II I	SPAC				
		"					33	В	34	20/	1	12	II I		BOYS GYN	I SCORE BO		
		11					35	С	36	20/	1	12	II I	CKT				
		11					37	Α	38	20/	1	12	М	MOT	ORIZED VA	LVES	500	
		BOILER PUMP :	# 1		12	20/3	39	В	40	20/	1	12	М	MOT	ORIZED VA	LVES	500	
		11					41	С	42				II I	SPAC				
		"					43	Α	44					SPAC	Œ			
		BOILER #1			12	20/1	45	В	46					SPAC				
		"					47	С	48					SPAC				
		"					49	Α	50				II I	SPAC				
		SPACE					51	В	52					SPAC	Œ			
		SPACE					53	С	54					SPAC	Œ			
		SPACE					55	Α	56					SPAC				
		SPACE					57	В	58					SPAC				
		SPACE					59	C	60					SPAC				
	0	Subtotal													Subtotal		1,000	
N	.E.C.	Load Type	Conn.		Fct.	Diver	sity	N	1.E.C). <u> </u>					Conn.	Fct.	Diversity	
2:	20.44	(R) Recept.	0			0		21	0.20	(a)	(L) L	Lighting]		0	125%	0	
2	20.56	(K) Kitchen	0		100%	0					(EL)) Ext. L	.tg.		0	125%	0	
	II	(C) Cooling	0		0%	0		6	20.1	- 11		Elevato	_		0	100%	0	
	II	(H) Heating	О		0%	0				- 11	. ,	H) Wate			0	100%	0	
		(F) Fans	o		100%	0		:	220.5	- 11		Lrg. N			0	125%	0	
		(M) Misc.	500		100%	500	o l			- 11) Sub F			0	100%	0	
			<u> </u>								`	<u> </u>			-			
		Total Connected				VA =			AMF			Location	on of P	anel:				
		Total Load (Diver	sitied)=		500	VA =	0.	.6	AMF	ا S∼								

	•	Volt,3-Phase,4-\ 1 Section -Nema Rating	Vire		MLO	400 X	AMF		S (Ca		r)	Х	Singl Doub	е	New		Mountin X Surface Flush	
lotes	Load (VA)	Descrip	tion	Туре	Wire	СВ	CKT #	PH	CKT #	С	В	Wire	Туре		Descrip	tion	Load (VA)	Note
		SCHWP-1					1	A	2					SPAC	Œ			-
		11					3	В	4					"				+
		"					5	С	6					"				
		CT FAN 2					7	Α	8					VENT	FAN 3			
		"					9	В	10					"				
		"					11	C	12					" \				_
		CT FAN 1		-			13 15	A	14 16					VENI	FAN 2			-
		11					15	ВС	18					11				-
		SPACE					19	A	20					VENT	FAN 1			+
		"		\vdash			21	В	22					"	17414			+
		17					23	С	24					71				+
		HWP-1R					25	Α	26					SPAC	E			
		"					27	В	28					"				
		11					29	С	30					11				
							31	Α	32					SPAC	E			
							33	В	34					"				_
	0	Subtotal					35	С	36					"	Subtotal		0	4
<u></u>	.E.C.	Load Type	Conn.		Fct.	Divers	sitv		V.E.C						Conn.	Fct.	Diversity	<u> </u>
		(R) Recept.	0		1 01.	Divers 0	JILY		0.20		<u> </u>	Lighting	1		0	125%	Diversity	<u> </u>
	III.	(K) Kitchen			100%			-	0.20	(u)		.) Ext. L			0	125%		
	II.	(C) Cooling	Ö		0%	0		6	320.14	4		Elevato			0	100%	l ő	
	III.	(H) Heating	0		0%	o			- '		II ` ′	H) Wate			0	100%	0	
2:	ll ll	(F) Fans	0		100%	0			220.5	;	ш`	Γ) Lrg. N			0	125%	0)
	-	(M) Misc.	0		100%	0					(SP) Sub F	Panel		0	100%	0	1

												1	0,000	AIC Rating			
			F	an	elbo	ard	L	1.1					Х	Existing			
									-					New			
	277/480	Volt,3-Phase,4-\	Vire	225	МСВ	225	AMI	P MC	В		X	Singl	е			Mountin	ıg
		2 Section				225	AMI	P BU	S (C	opper)		Doub	le			X Surface	
	1	-Nema Rating				Χ		. GRI				Feed	- Thru	ı		Flush	
lotes	Load (VA)	Descrip	tion	Туре	Wire	СВ	CKT #	PH	CKT #	СВ	Wire	Туре		Descrip	tion	Load (VA)	Note
		EXISTING CKT			12	20/1	1	Α	2	20/1	12		H	EPT/EMER	RH		
		CASHIER LINE			12	20/1	3	В	4	20/1	12			TING CKT			
		EXISTING CKT			12	20/1	5	С	6	20/1	12		FREE	ZER			
		EXISTING CKT			12	20/1	7	Α	8	20/1	12		11				
		EXISTING CKT			12	20/1	9	В	10	20/1	12			NTER TOP			
		EXISTING CKT			12	20/1	11	С	12	20/1	12		COO	LER COIL			
		EXISTING CKT			12	20/1	13	Α	14	20/1	12						
		EXISTING CKT			12	20/1	15	В	16	20/1	12		CON	TER TOP			
		EXISTING CKT			12	20/1	17	С	18	20/1	12						
		EXISTING CKT			12	20/1	19	Α	20	20/1	12		H	ETERIA OU			
		EXISTING CKT			12	20/1	21	В	22	20/1	12		CAFE	ETERIA OU	TLET		
		EXISTING CKT			12	20/1	23	С	24	20/1	12						
		EXISTING CKT			12	20/1	25	Α	26	20/1	12		RETF				
		EXISTING CKT			12	20/1	27	В	28	20/2	12		EXIS:	TING CKT			
		EXISTING CKT			12	20/1	29	С	30				11				
		ACCESS DOOR	RGYM		12	20/1	31	Α	32	20/1	12		H	TING CKT			
		EXISTING CKT			12	20/1	33	В	34	20/2	12		FREE	ZER COIL			
		EXISTING CKT			12	20/1	35	С	36				11				
		HOT TOP COUN	ITER		12	20/2	37	Α	38	20/1	12		H	NTER TOP			
		"					39	В	40	20/1	12			LIGHTS			
		SERVING LINE			12	20/1	41	С	42	20/1	12		COLI	ER PANEL	-		
	0	Subtotal												Subtotal		0	
	l.E.C.	Load Type	Conn.		Fct.	Divers			1.E.C					Conn.	Fct.	Diversity	/
	ll ll	(R) Recept.	0			0		21	0.20	` ' `) Lighting	-		0	125%	0	
	220.56 (K) Kitchen 0				100%	0					L) Ext. L			0	125%	0	
	220.60 (C) Cooling 0				0%	0		6	320.1	11 '	E) Elevato			0	100%	0	
	220.60 (H) Heating 0				0%	0				ш,	VH) Wate			0	100%	0	
2	ll ll	(F) Fans (M) Misc.	0		100%	0] :	220.5	П,	1T) Lrg. 1			0	125%	0	
			100%	0				(S	P) Sub F	Panel		0	100%	0			
		Total Connected Total Load (Dive				VA = VA =			AMI AMI	ll l	Location	on of P	anel:				

			F	Pan	elbo	ard	L	1.2	<u> </u>				10		AIC Rating Existing New	3		
		Volt,3-Phase,4-\ 2 Section	Wire		MCB	225		MC BU		opper)	ll ll		ingle oubl				Mountin X Surface	g
	1	1 -Nema Rating				X	ISO.	GRI	ND. E	BUS		F	eed	- Thru	J		Flush	
otes	Load (VA)	Descrip	otion	Туре	Wire	СВ	CKT #	PH	CKT #	СВ	· w	re Ту	ре		Descrip	otion	Load (VA)	Notes
		EXISTING CKT			4	70/3	1	Α	2					SPAC	CE			
		н					3	В	4					SPAC	CE			
		н					5	С	6	20/	1 1	2		EXIS	TING CKT			
		EXISTING CKT			12	20/3	7	Α	8	40/3	3 8	5 T		FREE	ZER CU			
		II					9	В	10					11				
		li .					11	С	12					!!				
		HOT FOOD COL	JNTER		10	30/3	13	Α	14	20/3	3 1	2		HOT	FOOD COL	JNTER		
		11					15	В	16					U				
		li .					17	С	18					U				
		EXISTING CKT			12	20/3	19	Α	20	20/3	3 1	2		EXIS	TING CKT			
		l'					21	В	22					"				
		l'					23	С	24									
		EXISTING CKT			12	20/3	25	Α	26	20/	1 1	2		EXIS	TING CKT			
		11					27	В	28	20/	1 1	2			TING CKT			
		l'					29	С	30	20/2	2 1	2		FLAT	TOP COU	NTER		
		KITCHEN EXHA	UST		8	40/3	31	Α	32					11				
		11					33	В	34	20/			ll ll		/IACHINE			
		11					35	С	36	20/			ll ll		TABLE O	UTLET		
		EXISTIN CKT			12	20/2	37	Α	38	20/			ll ll		/ING TOP			
		"	· ·				39	В	40	20/2	2 1	2		COO	L TOP COL	JNTER		
		SERVING LINE			12	20/1	41	С	42					!!				
	0	Subtotal													Subtotal		0	
	I.E.C.	Load Type	Conn.		Fct.	Divers	sity		I.E.C						Conn.	Fct.	Diversity	
	- 11	(R) Recept.	0			0		21	0.20	` ' 11	(L) Ligh	_			0	125%	0	
		(K) Kitchen	0		100%	0					(EL) Ex				0	125%	0	
		(C) Cooling	0		0%	0		6	20.1		(E) Ele				0	100%	0	
	- 11	(H) Heating	0		0%	0				- 11	(WH) V				0	100%	0	
2	20.60	(F) Fans	0		100%	0] :	220.5	- 11	(MT) Lr	-			0	125%	0	
		(M) Misc.	0		100%	0				((SP) Si	ıb Pan	el_		0	100%	0	
		Total Connected Total Load (Dive				VA = VA =			AMF AMF	ll l	Loc	ation o	of Pa	anel:				



ARCHITECTS

ARCHITECTS

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DBR Project Number 1816.000

SB AW HH JL --

2600 VIA FORTUNA, TERRACE I SUITE 300 AUSTIN, TX 78746 PHONE: 512-646-2237 FAX: 512-418-1791 WWW.KIMLEY-HORN.COM C 2018 KIMLEY-HORN AND ASSOCIATES, INC. TBPE Firm No. 928



DOBIE MIDDLE SCHOOL

MANAGEMENT

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



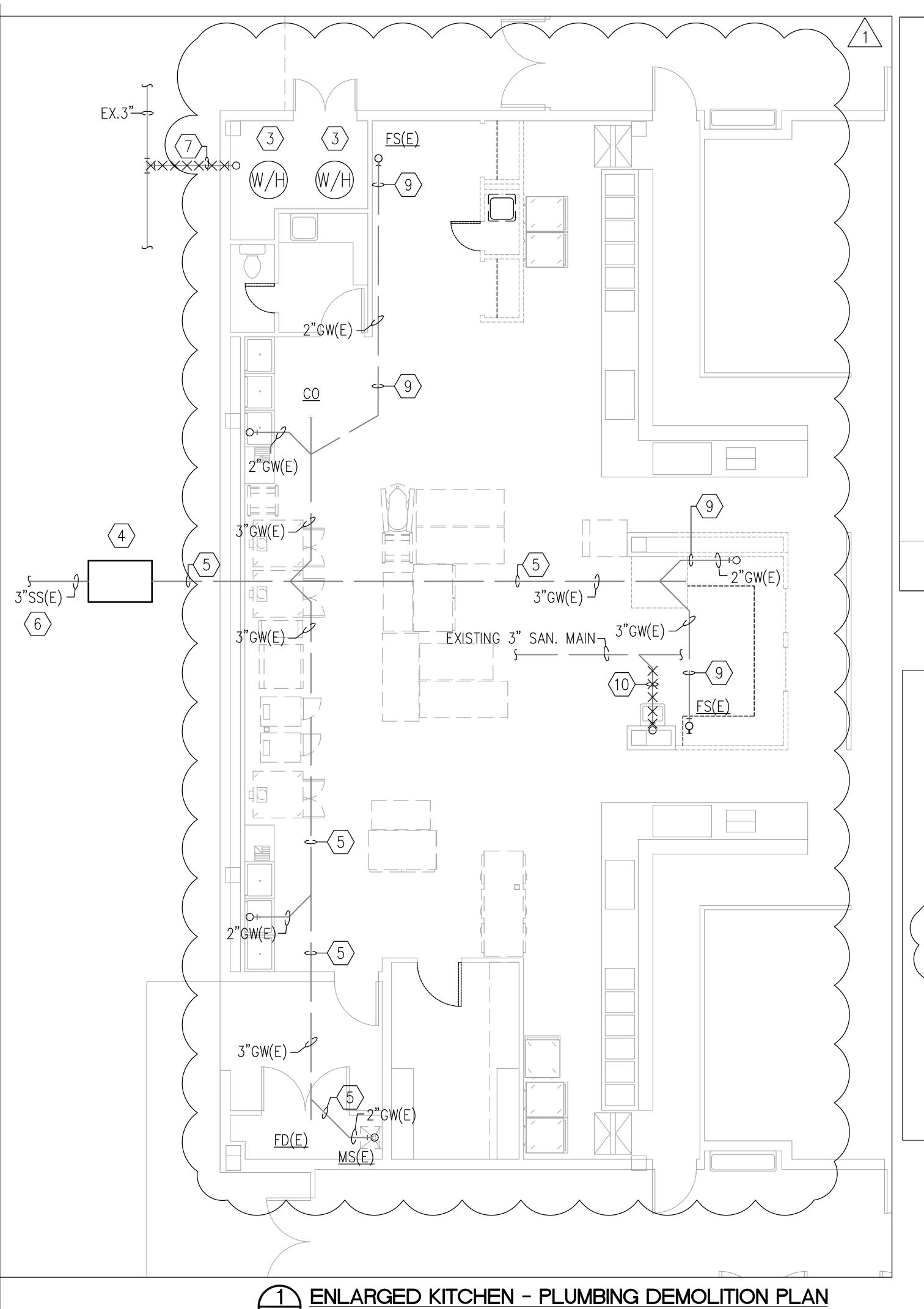
REVISIONS

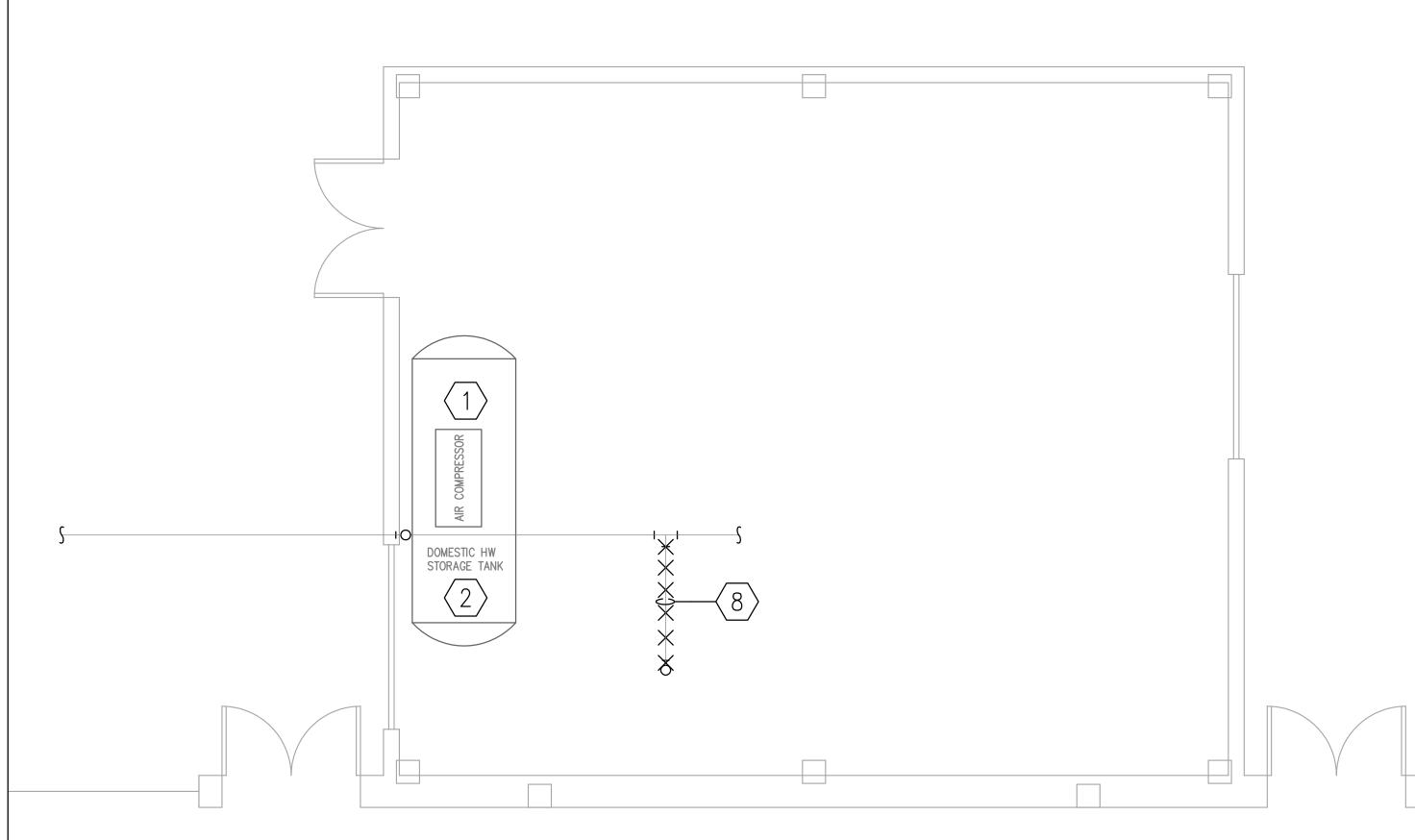
No.	lssue	Date
1	ADDENDUM 2	02/15/2019
<u> </u>		_
	SHEET INI	FORMATION
ate		January 3, 2019
b Number		18-1032
cale		
rawn		DBR
hecked		SB
pproved		MC
	·	TITLE

ELECTRICAL SCHEDULES

SHEET

E5.1





ENLARGED MAIN MECH. ROOM - PLUMBING DEMOLITION PLAN

1/4"=1'-0"

- EXISTING ABANDONED AIR COMPRESSOR SHALL BE REMOVED. COMPRESSED AIR PIPING SHALL BE CAPPED AT WALL OR CEILING. ELECTRICAL CONNECTIONS SHALL BE DISCONNECTED AND WIRES PULLED ALL THE WAY BACK TO THE BREAKER. HAND OVER COMPRESSOR TO SCHOOL DISTRICT SERVICE DEPARTMENT.
- EXISTING STORAGE TANK SHALL BE REMOVED. ALL SUPPORTING STAND AND MATERIALS SHALL BE REMOVED. ANY CONNECTION TO THE TANK SHALL BE DISCONNECTED AT CEILING OR FLOOR LEVEL AND CAPPED.
- EXISTING WATER HEATER INCLUDING ALL ASSOCIATED PIPING AND APPURTENANCES TO BE REMOVED. NEW WATER HEATER(S) TO BE INSTALLED WITH ALL NEW PLUMBING LINES AND ACCESSORIES.
- 4 EXISTING GREASE WASTE INTERCEPTOR TO BE REMOVED/REPLACED. PREPARE SPACE FOR REPLACEMENT GREASE
- (5) EXISTING GREASE WASTE PIPING TO BE REMOVED/REPLACED WITH NEW GREASE WASTE PIPING IN EXACT LOCATION.
- (6) EXISTING SANITARY WASTE TO REMAIN.

PREPARE SPACE FOR REPLACEMENT PIPING.

- (7) EXISTING 4 OUNCE GAS LINE TO BE REMOVED BACK TO MAIN LINE.
- 8 EXISTING 1=1/2" DOMESTIC COLD WATER PIRING TO BE REMOVED BACK TO MAIN LINE.

P1.2

PLUMBING DEMOLITION KEYED NOTES:

- (9) EXISTING GREASE WASTE PIPING TO BE REMOVED IN ITS ENTIRETY BACK TO MAIN LINE.
- DEMOLISH SANITARY WASTE AND ALL ASSOCIATED PIPING AND CAP AT SANITARY WASTE MAIN LINE AS SHOWN ON THE PLAN. CORE DRILL FLOOR AND PATCH TO MATCH AS NECESSARY. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES LOCATION PRIOR TO ANY WORK.

PLUMBING DEMOLITION GENERAL NOTES:

- 1. FIELD VERIFY AS NECESSARY THE EXACT LOCATIONS/ROUTING/SIZES OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT TO BE REMOVED OR RE-USED. REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION AS REQUIRED.
- 2. ALL PLUMBING FIXTURES/EQUIPMENT NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN. NOTIFY THE
- ARCHITECT/ENGINEER OF ANY DISCREPANCIES/CONFLICTS FOUND IN THE FIELD.
- SUPPLIES/STOPS, TUBULAR BRASS, AND ASSOCIATED PIPING AS DESCRIBED.

 4. ALL PLUMBING FIXTURES AND/OR EQUIPMENT REMOVED SHALL BE SUBMITTED TO THE OWNER WITH THE OPTION TO BE RE-USED, WHICH SHALL BE SOLELY AT THE DISCRETION OF THE OWNER. ITEMS THE OWNER DOES NOT WISH TO RE-USE

3. UNLESS NOTED OTHERWISE, WHERE FIXTURES ARE TO BE REMOVED: REMOVE FIXTURE, CARRIER, FAUCET/FLUSH VALVE,

- BUT WISHES TO RETAIN SHALL BE DELIVERED TO STORAGE AS DIRECTED. ITEMS THE OWNER DOES NOT WISH TO RE-USE OR RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY.

 5. PENOVE ALL DIRING EROM AROVE ELOOP TO BELOW ROOF (ELOOP AROVE WALCH WAS RESUMINGLY ARANDONED OR WHICH
- 5. REMOVE ALL PIPING FROM ABOVE FLOOR TO BELOW ROOF/FLOOR ABOVE WHICH WAS PREVIOUSLY ABANDONED OR WHICH SERVES PLUMBING FIXTURES DESIGNATED FOR REMOVAL, UNLESS NEW FIXTURES ARE TO BE INSTALLED IN THOSE LOCATIONS REFER TO PLUMBING FLOOR PLANS. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY FIXTURES TO REMAIN. CAP REMOVED BRANCH LINES AS CLOSE AS POSSIBLE TO EXISTING MAINS TO REMAIN.
- 6. WHERE SLAB ON GRADE FLOOR DRAINS OR SIMILAR INSTALLATIONS ARE TO BE REMOVED, THE STRAINER AND DRAIN BODY SHALL BE REMOVED. PLUG THE WASTE PIPE WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO
- 7. AT PLUMBING WASTE/VENT PIPE PENETRATIONS THROUGH SLAB ON GRADE NO LONGER REQUIRED, PLUG THE PIPES WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
- 8. WHERE WASTE/VENT BRANCH LINES BELOW SLAB ON GRADE ARE PLUGGED AND ABANDONED IN PLACE, THE ABANDONED LINES SHALL REMAIN OTHERWISE SERVICEABLE AND THE REMAINING PIPING SYSTEM SHALL REMAIN INTACT AND
- 9. WHERE FIXTURES ARE REMOVED, NO NEW FIXTURES ARE TO BE INSTALLED, AND EXISTING VENTS THROUGH ROOF ARE NO LONGER REQUIRED, VENT TERMINALS ARE TO BE COMPLETELY REMOVED UNLESS NOTED OTHERWISE. THE ROOF SHALL BE REPAIRED AND SEALED WATERTIGHT TO MATCH THE EXISTING ROOF SYSTEM.
- 10. IN THE COURSE OF DEMOLITION, ANY PIPING TO REMAIN THAT IS EXPOSED AND FOUND TO BE UNLABELED SHALL BE IDENTIFIED AND LABELED ACCORDINGLY. PROVIDE PIPE MARKERS TO INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW.
- 11. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING PLUMBING RELATED ITEMS INTENDED TO REMAIN BUT WHICH ARE FOUND TO BE UNFIT FOR SERVICE OR IN NEED OF REPAIR. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING: LEAKING OR DETERIORATED PIPING AND VALVES; IMPROPERLY SLOPED/SUPPORTED OR SAGGING PIPE; MISSING, DAMAGED, OR DETERIORATED INSULATION; CODE REQUIRED BUT MISSING BACKFLOW PREVENTION MEASURES; FIXTURES, FLUSH VALVES, FAUCETS, EQUIPMENT, AND APPURTENANCES NOT FUNCTIONING AS INTENDED.
- 12. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING NON-PLENUM RATED PIPING (PVC, ETC.) INTENDED TO REMAIN WHICH IS FOUND IN A RETURN AIR PLENUM SPACE. UNLESS DEEMED UNACCEPTABLE BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) OR OWNER, ALL SUCH PIPING SHALL BE WRAPPED WITH FIRE RESISTANT INSULATION. 3M FIRE BARRIER PLENUM WRAP 5A OR PRE-APPROVED EQUAL THAT HAS BEEN TESTING IN ACCORDANCE WITH ASTM E84 AND UL 910. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED METHODS.



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TBPE Firm No. 928

AUSTIN I.S.D.

DEPARTMENT OF CONSTRUCTION

DOBIE MIDDLE SCHOOL

MANAGEMENT

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



REVISIONS

Issue Date

ADDENDUM 2 02/15/2019

 SHEET INFORMATION

 Date
 January 3, 2019

 Job Number
 18-1032

 Scale
 Drawn

 Drawn
 DBR

 Checked
 SB

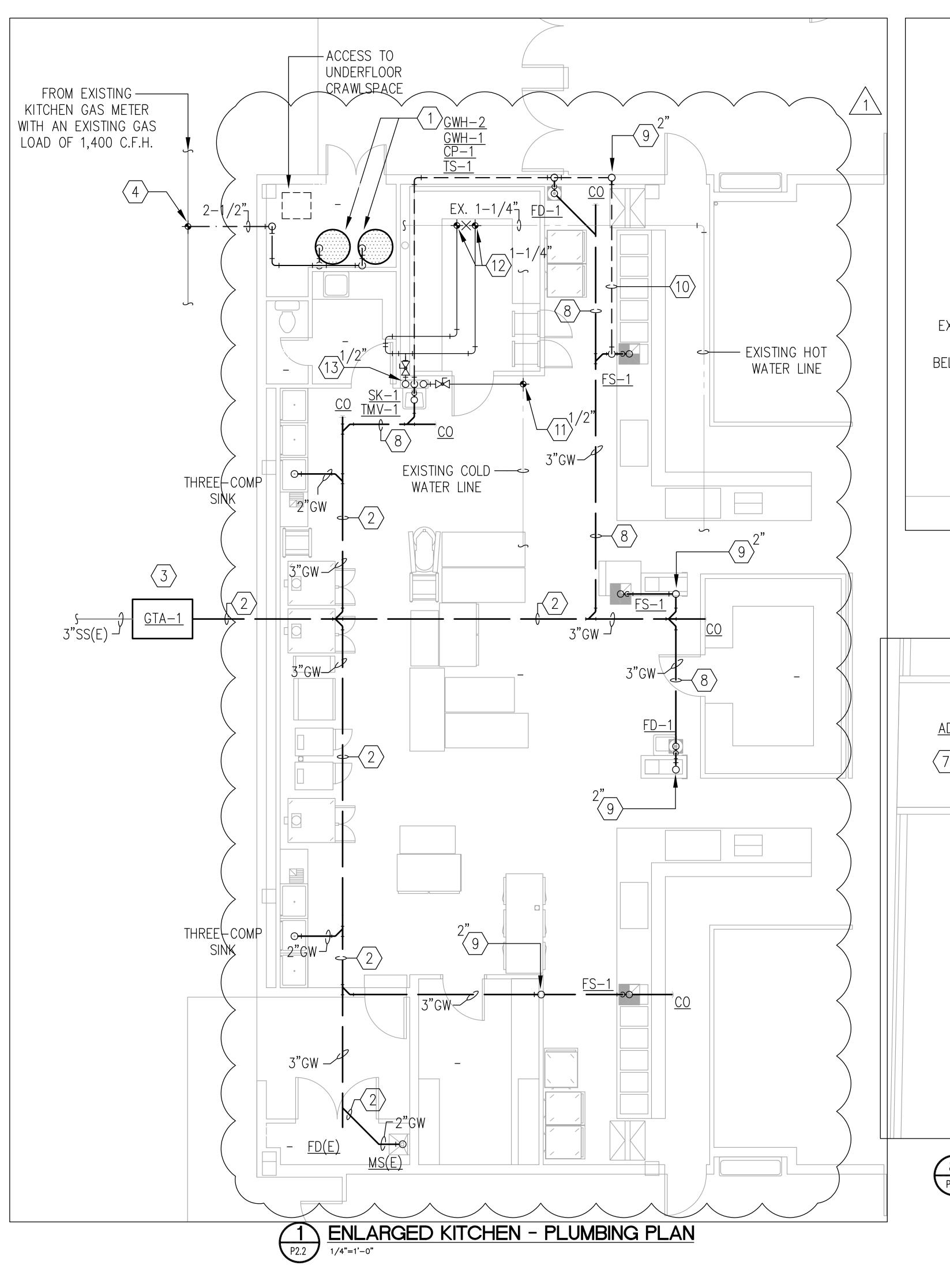
 Approved
 MC

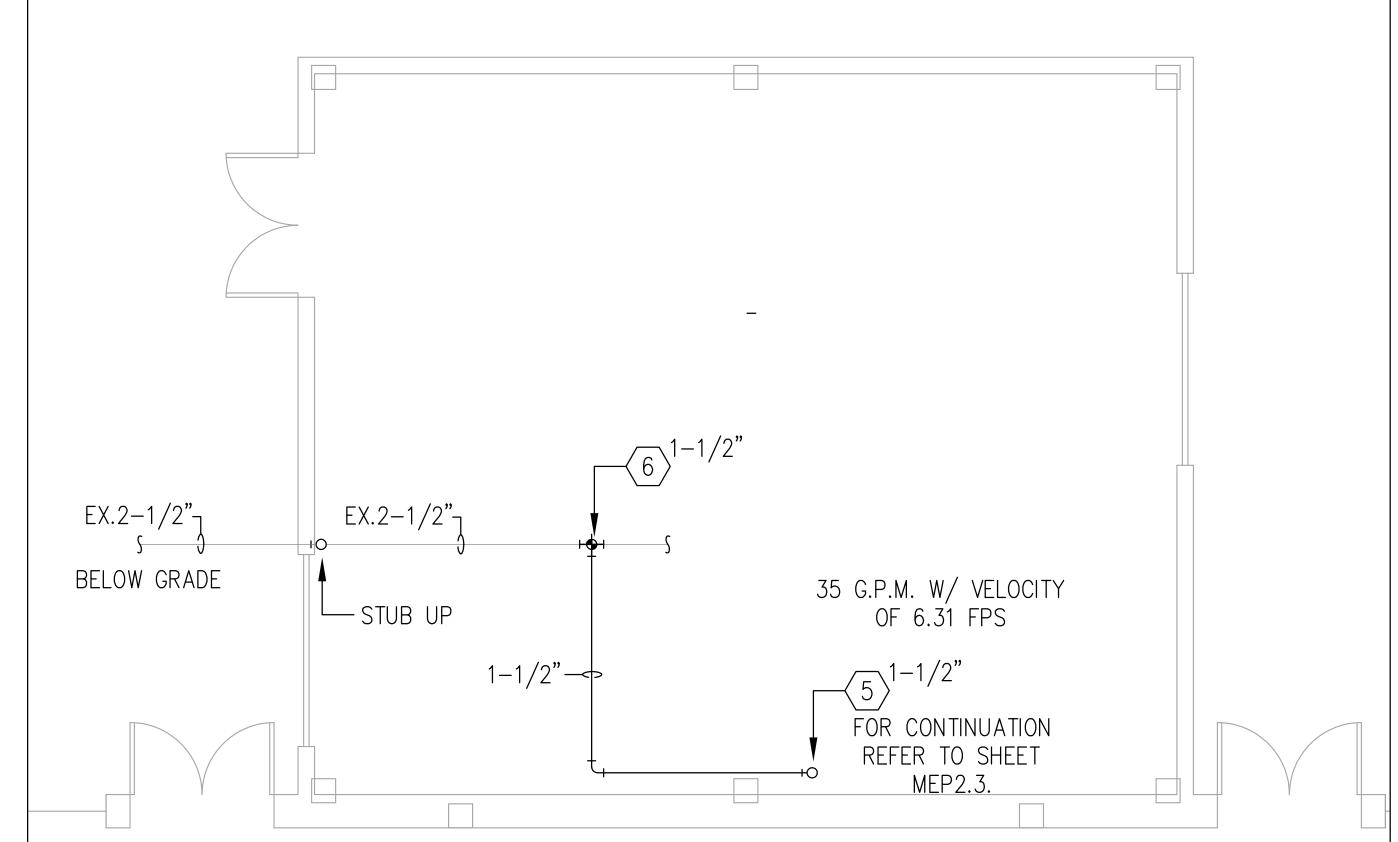
 TITLE

ENLARGED -PLUMBING DEMO PLANS

SHEET

P1.2





PLUMBING KEYED NOTES:

ENLARGED MAIN MECH. ROOM - PLUMBING PLAN

- install new water heater(s) as scheduled, provide all new plumbing lines and connect to existing domestic water system.
- NEW GREASE WASTE PIPING TO BE ROUTED IN SAME EXACT LOCATION AS EXISTING GREASE WASTE PIPING SUSPENDED IN CRAWL SPACE. SIZE AS NOTED ON PLAN. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF GREASE WASTE PIPING. ACCESS TO GREASE WASTE PIPING IN CRAWL SPACE IS NOTED ON THE PLAN.
- $\langle 3 \rangle$ NEW GREASE WASTE INTERCEPTOR. REFER TO DETAIL: 3/6.1.
- NEW 4 OUNCE GAS LINE TO TIE-IN TO EXISTING GAS LINE MAIN. SIZE AS NOTED ON THE PLAN. 398 C.F.H. ADDED TO EXISTING TOTAL GAS LOAD. CONTRACTOR TO FIELD VERIFY EXISTING GAS LOAD AND COORDINATE WITH LOCAL GAS COMPANY PRIOR TO ANY WORK.
- NEW DOMESTIC COLD WATER LINE UP TO COOLING TOWER(S) ON ROOF. SIZE AS NOTED ON THE PLAN. PROVIDE A WATTS LF009-QT-S RPZ ON VERTICAL PRIOR TO ROOF PENETRATION.
- 6 NEW DOMESTIC COLD WATER LINE TO TIE-IN TO EXISTING 2-1/2" DOMESTIC COLD WATER LINE. SIZE AS NOTED ON THE PLAN.
- $\langle 7 \rangle$ provide areaway drain in New Areaway. Route 4" underground storm drain line to existing storm drain
- 8 NEW GREASE WASTE PIPING SUSPENDED IN CRAWL SPACE. SIZE AS NOTED.
- 9 NEW 2" VENT TO ROOF AS SHOWN ON THE PLAN.

AREAWAY - PLUMBING PLAN

1/4"=1'-0"

- (10) NEW 2" VENT PIPING SUSPENDED IN CRAWL SPACE TO STUB UP IN WALL/CHASE AS SHOWN ON THE PLAN.
- 11) NEW DOMESTIC COLD WATER LINE TO TIE-IN TO EXISTING DOMESTIC COLD WATER LINE. SIZE AS NOTED.
- RE—ROUTE EXISTING HOT WATER AS SHOWN ON THE PLAN. KEEP RE—CIRCULATING LINE WITHIN 2 FEET OF HOT WATER ROUGH—IN FOR 2015 IECC COMPLIANCE; SIZE AS NOTED.
- (13) NEW COLD/HOT WATER SUSPENDED IN CRAWL SPACE UP IN WALL/CHASE TO FIXTURE. SIZE AS NOTED.

PLUMBING GENERAL NOTES:

- FIELD VERIFY AS NECESSARY THE EXACT LOCATION, SIZE, DEPTH BELOW FLOOR/HEIGHT ABOVE CEILING, ROUTING, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL, AND CONDITION OF EXISTING PIPING. MAKE ADJUSTMENTS AS REQUIRED.
- COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF
- THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING BUILDING FIXTURES TO REMAIN SHALL GOVERN THE EXTENT AND NATURE OF WORK.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS IN ADVANCE WITH THE OWNER PRIOR TO ANY NECESSARY SHUT DOWN OF THE DOMESTIC WATER OR ANY OTHER SERVICE. ANY SUCH SHUT DOWN SHALL BE AT A TIME AND FOR A DURATION SATISFACTORY TO THE OWNER, WHO SHALL MAKE THE FINAL DETERMINATION AS TO ITS ACCEPTABILITY.
- SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND EXACT NATURE OF WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM FAILURE TO MAKE SUCH A THOROUGH EXAMINATION. NOTE THAT FOR GRAPHICAL CLARITY, ALL EXISTING PIPING TO REMAIN OR BE ABANDONED IN PLACE MAY NOT BE SHOWN ON THE FLOOR PLANS.

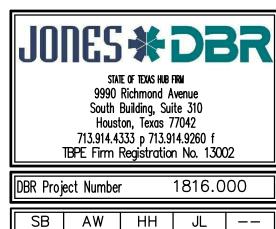
SIZES AND LOCATION OF EXISTING PIPING(S) SHOWN WERE TAKEN FROM ENGINEERING PLANS FROM WHICH EXISTING SYSTEMS WERE INSTALLED. CONTRACTOR TO FIELD VERIFY EXACT SIZES, ROUTING AND LOCATIONS OF INDICATED EXISTING GREASE WASTE PIPING.



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DOBIE MIDDLE SCHOOL

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i	Issue	Date
	ADDENDUM 2	02/15/2019

	SHEET INFORMATION
Date	January 3, 2019
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Scale	
Drawn	DBR
Checked	SB
Approved	MC
	TITLE

ENLARGED -PLUMBING PLANS

SHEET

P2.2

	МТМ	IIMIIM	ROUGH	_IN SIZ	ZES	
PLAN MARK			DRAIN		HW	DESCRIPTION
GAS WATER HEATER GWH-1 GWH-2				1-1/2"	1-1/2"	A.O. SMITH 'CYCLONE' No. BTH-199, 100 GALLON STORAGE ASME TANK, 199,000 BTUH INPUT, 294 GPH RECOVERY @ 80° TEMP. RISE, 97% EFF. PROVIDE DUAL THERMOSTAT CONTROL, ASME TEMPERATURE/PRESSURE RELIEF VALVE AND FULLY AUTOMATIC CONTROLS, SPARK IGNITION, FLAME SAFEGUARD, REGULATORS AND SAFETY SHUT OFF. ENTIRE ASSEMBLY TO BE UL LISTED. PROVIDE WITH VENT KIT MODEL 9003910105, DUAL 4" CPVC INTAKE AND EXHAUST FOR EACH AND MANUFACTURE GAS PRESSURE REGULATOR. CONTRACTOR TO PROVIDE AMTROL No. ST-5-C EXPANSION TANK.
CIRCULATING PUMP CP-1					3/4"	GRUNDFOS MODEL UP15-42B5, ALL BRONZE FLANGED PUMP, 1/25 HP WRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTACTOR. RE: ELECTRICAL PLANS.
TIME SWITCH TS-1						TORK ELECTROMECHANICAL 24 HOUR TIME SWITCH POWERED BY A SELF STARTING SYNCHRONOUS MOTOR. INSTALL ON WALL ADJACENT TO/FOR CIRCULATING PUMP. COORDINATE WITH ELECTRICAL AND PROVIDE FOR POWER AS SCHEDULED ON ELECTRICAL DRAWNGS.
AREA WAY DRAIN AD-1	SEE PLAN					ZURN NO.Z154 CAST IRON PROM-DECK DRAIN. 12" SQUARE PROMENADE DECK DRAIN, BOTTOM OUTLET. CAST IRON BODY, WITH ANCHOR FLANGE, WITH HEEL PROOF GRATE AND ROTATABLE FRAME. WITH SEEPAGE OPENING, FRAME CLAMPS.
FLOOR SINK FS-1	3"	2"				ZURN No.ZN-1902-2-25-K, 12" SQUARE, 10" DEEP CAST IRON DRAIN WITH ENAMELED INTERIOR, SEDIMENT BUCKET STRAINER AND SECURED HALF NICKEL BRONZE GRATE.
FLOOR DRAIN FD-1	3"	2"				ZURN No.ZN-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE 'B' STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION. (PLUGGED WHERE NOT REQUIRED)
HAND SINK SK-1	2"	1–1/2"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD No. 0355.012 WHITE V.C. LAVATORY WITH FRONT OVERFLOW AND FAUCET HOLES DRILLED ON 4" CENTERS FOR CHICAGO No. 116.124.AB.1 SENSOR FAUCET (0.5 GPM), PROVIDE FIXED GRID DRAIN STRAINER, TAILPIECE, CAST BRASS P—TRAP WITH CO, STOPS, SUPPLIES. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER. PROVIDE TMV—1. PROVIDE TRIM AS REQUIRED FOR ADA USE. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
THERMOSTATIC MIXING VALVE TMV-1				1/2"	1/2"	PROVIDE POWERS No. LFe480 POINT-OF-USE MIXING VALVE WITH INLET CHECKS INSTALLED IN CONCEALED AREA BELOW FIXTURE TO LIMIT HOT WATER TO MAXIMUM 105° F. AT FAUCET OUTLET. SUPPLY CW TO MIXING VALVE FROM CW RISER TO FAUCET. INSTALL ALL AS HIGH AS POSSIBLE TO PROVIDE NEAT AND CLEAN APPEARANCE.

FIRE PROTECTION GENERAL NOTES:

- 1. THE SCOPE OF THE WORK INCLUDES THE INSTALLATION OF SPRINKLER HEADS INCLUDING PIPE, FITTINGS, HANGERS AND ACCESSORIES. THIS BUILDING IS TO BE FULLY SPRINKLED. THE EXISTING FIRE SPRINKLER MAIN BRANCHES SHALL BE MODIFIED AS REQUIRED TO PROVIDE COMPLETE COVERAGE FOR ALL AREAS WITHIN THE SCOPE OF THIS WORK AND SHALL BE MODIFIED AS NECESSARY TO ACCOMMODATE REQUIREMENTS OF THE NEW PARTITION, NEW LIGHT FIXTURES, SOFFITS, FURR DOWNS, CEILING LAYOUT, ETC.
- 2. FIRE SPRINKLER SYSTEM SHALL PROVIDE COMPLETE AUTOMATIC PROTECTION AND COVERAGE REQUIRED BY THE LOCAL, STATE, JURISDICTIONAL, GOVERNMENTAL AGENCIES AND NFPA 13 (LATEST ADDITION). THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO VALVE SUPERVISORY SWITCHES. FLOW SWITCHES AND COORDINATION WITH THE LANDLORD'S FIRE ALARM SYSTEM.
- 3. FIRE SPRINKLER SYSTEM SHALL PROVIDE COMPLETE AUTOMATIC PROTECTION AND COVERAGE IMMEDIATELY OUTSIDE THE NEW AREA REQUIRED BY THE LOCAL, STATE, JURISDICTIONAL AND GOVERNMENTAL AGENCIES.
- 4. SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, JURISDICTIONAL, GOVERNMENTAL AGENCIES AND NFPA 13 (LATEST ADDITION). SPRINKLER SYSTEM MUST ALSO BE APPROVED BY LANDLORD AND LANDLORD'S FIRE INSURANCE UNDERWRITER.
- 5. COMPLETE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO OWNER/ARCHITECT, LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER AND FIRE MARSHALL'S APPROVAL.
- 6. PRIOR TO SHUT DOWN OF ANY EXISTING FIRE PROTECTION SYSTEM, CONTRACTOR SHALL NOTIFY LANDLORD'S OR OWNER'S APPOINTED REPRESENTATIVE 24 HOURS PRIOR TO SERVICE INTERRUPTION AND ADVISE OF DURATION FOR THE SPRINKLER SYSTEM TO BE TEMPORARILY OUT OF SERVICE IN ACCORDANCE WITH LOCAL CODES AND JURISDICTIONS.
- 7. FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH LANDLORD BEFORE INTERRUPTING THE EXISTING SYSTEM. THE CONTRACTOR SHALL PERFORM HIS WORK IN A WORKMANLIKE MANNER. UPON COMPLETION OF WORK THE CONTRACTOR SHALL TEST, THEN CONNECT TO MAIN SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING SYSTEM TO FULL
- 8. ALL MODIFIED SPRINKLER HEADS SHALL BE NEW. RELIABLE OR APPROVED EQUAL. OF TYPES TO MATCH EXISTING. ALL NEW PIPE AND FITTINGS SHALL BE OF DOMESTIC MANUFACTURE AND SHALL BE THE SAME OR EQUAL MATERIALS OF EXISTING SYSTEM.
- 9. ALL SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILES REGARDLESS OF ANY NECESSITY TO INSTALL ADDITIONAL HEADS TO ACCOMPLISH UNIFORM APPEARANCES OF THE COMPLETED INSTALLATION BY THIS REQUIREMENT.
- 10. SPRINKLER SYSTEM SHALL CONTAIN NO VALVES DOWNSTREAM OF CONTROL STATION.
- 11. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL MAKE AND PAY FOR ALL TESTS AS MAY BE REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL CORRECT ANY DEFECTS INDICATED BY TESTS TO THE SATISFACTION OF THE AUTHORITIES.
- 12. THE SPRINKLER SYSTEM SHALL BE FULLY CHARGED AND OPERATIONAL WHEN THE CONTRACTOR IS OFF THE SITE.
- 13. SPRINKLER CONTRACTOR SHALL REFER TO ARCHITECTURAL CODE SHEET FOR SPECIAL REQUIREMENTS.

PLUMBING GENERAL NOTES:

- CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
- . CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS FOR ALL PLUMBING FIXTURES, EQUIPMENT AND RELATED ITEMS PROVIDED UNDER SEPARATE DIVISIONS.
- . CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND ELEVATIONS OF PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING UTILITY LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK.
- . CONTRACTOR SHALL BE RESPONSIBLE TO ALERT ARCHITECT AND ENGINEER OF GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION OF ANY WORK.
- . CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AS EXISTING AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS ARE TO BE REQUIRED, CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- . CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.
- 7. ALL PIPE PASSING THROUGH FIRE RATED WALLS OR FLOOR SLAB SHALL BE SUPPORTED AT THE PENETRATION AND SHALL BE SEALED WITH APPROVED FIRE STOP MATERIALS AS SPECIFIED AND REQUIRED BY CODE AUTHORITIES HAVING JURISDICTION.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING ALL PLUMBING PIPING SLEEVE LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR SUPPORTS.
- 9. DO NOT SCALE PLUMBING DRAWINGS FOR FIELD ROUGH-IN WORK. CONTRACTOR SHALL REFER TO THE DIMENSIONED ARCHITECTURAL AND STRUCTURAL DRAWINGS TO FIELD DETERMINE EXACT LOCATIONS OF ROUGH-IN WORK.
- D. SANITARY DRAINAGE PIPE 3" AND SMALLER SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/4 INCH PER FOOT OF RUN. DRAINAGE PIPE 4" AND LARGER SHALL SLOPE AT MINIMUM 1/8 INCH PER FOOT OF RUN. SLOPE ALL VENT PIPE MINIMUM 6" PER 100 FEET
- STORM DRAINAGE PIPE SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/8 INCH PER FOOT OF RUN. SLOPES OF 1/4 INCH PER FOOT ARE PERMITTED WHERE NOTED ON PLAN OR AS REQUIRED.
- 12. PROVIDE FITTINGS FOR SANITARY DRAIN, WASTE AND WASTE PIPING SYSTEMS OF APPROVED DRAINAGE PATTERN AND LONG OR SHORT RADIUS TYPES AS REQUIRED AND APPROVED FOR USE IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
- 13. PROVIDE CLEANOUTS AT EACH CHANGE OF DRAIN LINE DIRECTION GREATER THAN 45" AND IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
- 14. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL DRAINAGE PIPING. PROVIDE RESTRAINTS AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. BRACES, BLOCKS, RODDING AND OTHER METHODS AS PRESCRIBED BY THE PIPE AND COUPLING MANUFACTURER SHALL BE ACCEPTABLE.
- 5. PROVIDE ISOLATING BALL VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE MILCOR STYLE 'K' PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT.
- 16. ALL HOT WATER AND HOT WATER CIRCULATING PIPING SHALL HAVE 1" THICK FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND SELF SEALING LAP JOINT.
- 7. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVALS/REPLACEMENTS.
- 18. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS OF ALL SANITARY VENTS UP THROUGH ROOF TO MAINTAIN MINIMUM 25' CLEARANCE TO ANY BUILDING OUTDOOR AIR INLET.
- 19. CONTRACTOR SHALL STERILIZE ALL DOMESTIC WATER PIPING ACCORDING TO AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
- 20. PROVIDE BENTONITE WATERPROOFING BARRIER IN ALL PLUMBING UTILITY TRENCHES BELOW GROUND AT THE POINT OF BUILDING EXIT. BARRIER SHALL BE VOLCLAY GPG 30, OR EQUAL AND SHALL BE MINIMUM 24" THICK ACROSS ENTIRE TRENCH WIDTH. FROM BOTTOM OF TRENCH TO 12" ABOVE BOTTOM OF GRADE BEAMS.
- 21. SHOCK ARRESTORS SHALL CONFORM WITH THE REQUIREMENTS OF ASSE 1010 AND SHALL BE SIZED AND LOCATED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. ACCESS PANELS REQUIRED FOR FIXTURE GROUPS SHALL BE SIZED TO ALLOW SERVICE TO SHOCK ARRESTORS WHERE POSSIBLE. LOCATIONS AND SIZES OF REQUIRED ACCESS PANELS SHALL BE REVIEWED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.
- 22. ALL CAST IRON FITTINGS AND INSTALLATION SHALL COMPLY WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS.
- 23. FLASH FLOOR DRAINS IN FLOORS WITH TOPPING OVER FINISHED AREAS WITH LEAD, 10 INCHES CLEAR ON SIDES WITH MINIMUM 36 X 36 INCH SHEET SIZE. FASTEN WATERPROOFING MEMBRANE FLASHING TO DRAIN CLAMP DEVICE.
- 24. PROVIDE INDIVIDUAL SHUT-OFF VALVES OF EACH INDIVIDUAL PIECE OF EQUIPMENT.
- 25. ALL SANITARY LINES 3" AND LARGER SHALL BE CAMERA INSPECTED.
- 26. PROVIDE WALL CLEANOUTS ON ALL MOP SINKS, URINALS LAVATORIES AND TOILETS ABOVE FLOOD RIM OF FIXTURES.

PLUMBING PIPE MATERIALS SCHEDULE PIPING SYSTEM PIPING MATERIAL CAST IRON (SERVICE WEIGHT), BELL & SPIGOT GREASE WASTE INSIDE BUILDING AND BELOW GRADE SANITARY DRAINS AND VENTS INSIDE BUILDING AND BELOW GROUND SCHEDULE 40 PVC PIPE CAST IRON (SERVICE WEIGHT), NO-HUB DWV SANITARY DRAINS AND VENTS INSIDE BUILDING AND ABOVE GROUND SANITARY DRAINS AND VENTS INSIDE BUILDING AT PLENUM CEILING CAST IRON (SERVICE WEIGHT), NO-HUB DWV NATURAL GAS BLACK STEEL SCHEDULE 40 DOMESTIC HOT & COLD WATER INSIDE BUILDING AND ABOVE GROUND COPPER, TYPE "L" HARD DRAWN DOMESTIC HOT & COLD WATER INSIDE BUILDING AND BELOW GROUND COPPER, TYPE "K" SOFT ANNEALED DOMESTIC WATER AT ENTRY COPPER, TYPE "K" HARD DRAWN FIRE SPRINKLER BELOW GROUND DUCTILE IRON FIRE SPRINKLER ABOVE GROUND — 2" AND SMALLER BLACK STEEL SCHEDULE 40 FIRE SPRINKLER ABOVE GROUND - 2-1/2" AND LARGER BLACK STEEL SCHEDULE 10

NOTE: REFER TO SPECIFICATIONS FOR COMPLETE PIPING MATERIAL REQUIREMENTS FOR ASSOCIATED PIPING SYSTEMS.

PL	LUMBING LEGEND	
DISREGARD L	EGEND ITEMS NOT	
SYMBOL	DESCRIPTION	ABBR.
SIMDOL	SOIL OR WASTE PIPING B.G.	WST
	SOIL OR WASTE PIPING B.G.	WST
- AW	ACID WASTE PIPING B.G.	AW
AW	· ACID WASTE PIPING A.G.	AW
	EXISTING SOIL OR WASTE PIPING B.G.	WST
	EXISTING SOIL OR WASTE PIPING A.G.	WST
AW	EXISTING ACID WASTE PIPING B.G.	AW
AW	EXISTING ACID WASTE PIPING A.G.	AW
GW 	GREASE WASTE PIPING	GW
	VENT PIPING	V V
	EXISTING VENT PIPING	V
	ACID VENT PIPING	AV
	EXISTING ACID VENT PIPING	AV
	STORM DRAIN PIPING	SD
OD	OVER FLOW DRAIN	OD
— G—	GAS LINE	G
— F—	FIRE OR SPRINKLER LINE	F
'	DOMESTIC COLD WATER	CW
	EXISTING DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	EXISTING DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
	EXISTING DOMESTIC HOT WATER RETURN	HWR
<u>тw —</u>	TEMPERED DOMESTIC HOT WATER	TW
— DI —	DEIONIZED WATER	DI
<u> </u>	OXYGEN	0
	VACUUM	V
A	AIR	A
— N ₂ O —	NITROUS OXIDE	N ₂ O
$-co^2$	CARBON DIOXIDE	CO ²
	NITROGEN	N
		GV
	GLOBE VALVE	GLV
	BALL VALVE	BV
	CHECK VALVE	CKV
	BALANCING VALVE	BAV
	BUTTERFLY VALVE	BTV
 	PLUG VALVE	PLV
	PRESSURE REDUCING VALVE	PRV
¼ -	PRESSURE RELIEF VALVE	T&P
	STRAINER	STR
—-	UNION	UN
	THERMOMETER WELL	TW
<u> </u>	PRESSURE GAUGE	PG
	THERMOMETER CONDENSATE OR INDIRECT DRAIN	THRM
<u>——D ——</u> +	CONDENSATE OR INDIRECT DRAIN	D
	BRANCH CONNECTION, TOP	
+\$+	BRANCH CONNECTION, BOTTOM	
— +0	ELBOW UP	
C+	ELBOW DOWN	
Ø	FLOOR CLEANOUT (INTERIOR)	FCO
Ø	CLEANOUT AT GRADE (EXTERIOR)	COG
	· · · · · · · · · · · · · · · · · · ·	

WALL CLEANOUT

—9○ FLOOR DRAIN

HOSE BIBB

WALL HYDRANT

PLUMBING RISER IDENTIFICATION

DOWNSPOUT RISER IDENTIFICATION

FIRE RISER IDENTIFICATION

ABBREVIATIONS

ACCESS PANEL

BOTTOM OF PIPE

INDIRECT DRAIN

INVERT ELEVATION

SOFT WATER

TYPICAL

TRAP PRIMER

VENT THRU ROOF

NORMALLY CLOSED

FINISHED

FLOOR

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--

ABOVE FINISHED FLOOR

BELOW FINISHED FLOOR

——● FLOOR SINK

WCO FD FS HB WH P/X DS/X F/X ABBR. AFF AΡ BFF

BOP

D

FIN

FLR

INV. EL.

NC

SW

TP TYP

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AUSTIN I.S.D

DEPARTMENT OF CONSTRUCTION MANAGEMENT

DOBIE MIDDLE SCHOOL

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE

REVISIONS

Date

SHEET

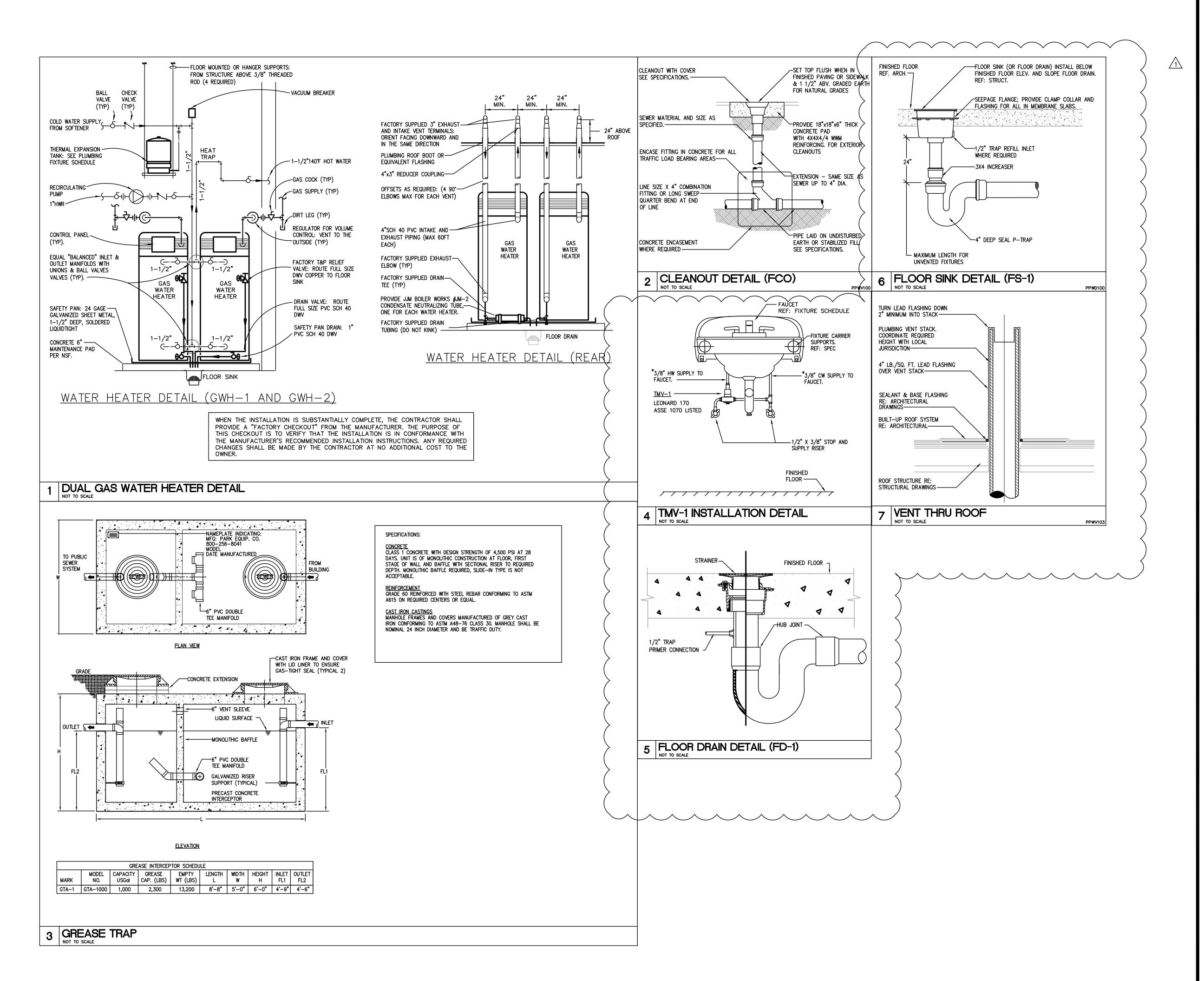


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1	ADDENDUM 2	02/15/2019
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PLUMBING **SCHEDULES**

P5.1





Building A, Suite 80

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DOBIE MIDDLE SCHOOL

RENOVATIONS

1200 E Rundberg Ln, Austin, Texas AISD PROJECT No. 190035-DOBIE



No.	Issue	Date
1	ADDENDUM 2	02/15/2019
	SHEET INFO	RMATION
Date		January 3, 2019
Job Number	•	18-1032
Scale		
Drawn		DBR

PLUMBING DETAILS

Approved

SHEET

P6.1



Name (Print) Serm Holloway	Phone: (737) 202 - 3203	Fax:
Company Name: FIMILY - HOM - Engineer	Email Address: Strahollowaye timley-hom.com	Proposing as: Prime Contractor NOT
Mailing Address 2000 Via Fortma	City, State, Zip: AUSTIN, TX 78746	□ HUB □ MBE □ WBE □ Non-Minority Firm
Name (Print) Sara H Gaspar	Phone:	Fax:
Company Name:	Email Address:	Proposing as:
Mailing Address:	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
Name (Print)	Phone:	Fax:
Company Name:	Email Address:	Proposing as: Prime Contractor
		, ,
		□ Subcontractor
Mailing Address:	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
Name (Print)	Phone:	Fax:
Company Name:	Email Address:	Proposing as: Prime Contractor
		□ Subcontractor
Mailing Address:	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
Name (Print)	Phone:	Fax:
Company Name:	Email Address:	Proposing as: Prime Contractor
		Subcontractor
Mailing Address:	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm



Name (Print)	Phone:	Fax:
Name (Print) CHRIS REAVES	512 968-4044	
Company Name:	Email Address:	Proposing as: Prime Contractor
DKC CONSTRUCTION GROUP	CREAVES & DKCCGROUP. COM City, State, Zip: AVSTIN, TX 78753	□ Subcontractor
Mailing Address:	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
Mailing Address: DUS SHELDON CV, STE 1F	AUSTIN, TX 78755	- HOS SIMIL SWEE SHOT-WINDREY FITTE
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Name (Print)	Phone:	Fax:
Company Name:	Email Address:	Proposing as:
		 Subcontractor
Mailing Address:	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
Name (Print)	Phone:	Fax:
Company Name:	Email Address:	Proposing as: Prime Contractor
		□ Subcontractor
Mailing Address:	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
Name (Print)	Phone:	Fax:
Company Name:	Email Address:	Proposing as:
		Subcontractor
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		Subcontractor
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Name (Print)	Phone:	Fav.
Shavon Cashion	512 531 2800	Fax:
Company Name:	Email Address:	Brancina as M. Brima Cantractor
		Proposing as: X Prime Contractor
Navcon Group	mike @ havcongroup.com	□ Subcontractor
Mailing Address:	City, State, 21p.	□ HUB □ MBE □ WBE □ Non-Minority Firm
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Name (Print)	Phone:	Fax:
SimonLucas	254-829-3200	254-829-3201
Company Name:	Email Address:	Proposing as: Prime Contractor
HCS Inc	bids @ hcs-gc.com City, State, Zip:	□ Subcontractor
I Basilina Adduses.	City, State, Zip:	8 100
315 Wayside Dr.	Waco, Tx 76705	□ HUB □ MBE □ WBE □ Non-Minority Firm
Name (Print)	Phone:	Fax:
Bob De Ases	512-7917662	
Company Name:	Email Address:	Proposing as: Prime Contractor
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Mailing Address:		HUB I MBE I WBE I Non-Minority Firm
Mailing Address:		Bubcontractor HUB
Name (Print Gerald Green	Phone: 512.414.3632_	Fax:
Name (Print) Gevald Green Company Name:	Phone: 512.414.3632 Email Address:	Fax: Proposing as: Prime Contractor
Name (Print Gerald Green Company Name: ALSD HUB	Phone: 512.414.3632 Email Address:	Fax:
Name (Print Gerald Green Company Name: ALSD HUB	Phone: 512.414.3632 Email Address:	Fax: Proposing as: Prime Contractor Subcontractor
Name (Print) Gevald Green Company Name:	Phone: 512.414.3632_	Fax: Proposing as: Prime Contractor
Name (Print Gerald Green Company Name: ALSD HUB	Phone: 512.414.3632 Email Address:	Fax: Proposing as: Prime Contractor Subcontractor
Name (Print) Name (Print) Name (Print) Name (Print)	Phone: 512.414.3632 Email Address: Geraldgreeneaustinisd.org City, State, Zip: Austin, TX Phone:	Fax: Proposing as: Prime Contractor Subcontractor
Name (Print) Name (Print) Name (Print) Name (Print)	Phone: 512.414.3632 Email Address: Geraldgreeneaustinisd.org City, State, Zip: Austin, TX Phone:	Fax: Proposing as:
Name (Print Gevald Green Company Name: ALSD HUB Mailing Address: III W 6th Street	Phone: 512.414.3632 Email Address: Geraldgreeneaustursd.org City, State, Zip: Austin, TX	Fax: Proposing as: Prime Contractor Subcontractor HUB
Name (Print) Name (Print) Name (Print) Name (Print) Company Name:	Phone: 512.414.3632 Email Address: Geraldgreeneaustunsd.org City, State, Zip: Austin, TX Phone: \$12-645-8572 Email Address:	Fax: Proposing as: Prime Contractor Subcontractor HUB
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Name (Print) Name (Print) Name (Print) Name (Print) Company Name:	Phone: 512.414.3632 Email Address: Geraldgreeneaustunsd.org City, State, Zip: Austin, TX Phone: \$12-645-8572 Email Address:	Fax: Proposing as: Prime Contractor Subcontractor HUB



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Name (Print) STEVE JONES	Phone: 512 - 389 -0063	Fax:
Company Name:	Email Address:	Proposing as: Prime Contractor
TECTA AMERICA (ROOF TWG)	StJonesEtectapyerica. Cor	Subcontractor
Mailing Address:	City, State, Zip:	
2319 PATTERSON IND DRIVE	PRUGGRUZUE, Tx, 78660	□ HUB □ MBE □ WBE ➢Non-Minority Firm
	11 corested 2000; 11 17 17 1880	
Name (Print)	Phone:	Fax:
Name (Print) Bryan Surgi Company Name:	504-270-6995	rdx.
Company Name:	Email Address:	Proposing as: Prime Contractor
OBR Eng	Email Address: bsurgiedbring.com	□ Subcontractor
Mailing Address:	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
Name (Print)	Phone: 5(Z-214-7755	Fax:
Company Name:	Email Address:	Proposing on a Prima Contractor
		Proposing as:
ENDUR CONTRACTORS	STHOMPSONCE ENDURCOMPANIES. COM	Subcontractor
Mailing Address:	City, State, Zip:	X HUB X MBE □ WBE □ Non-Minority Firm
1750 KANNEDALE NEW HOPE RS.	FORT WORTH, TX.	7
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Name (Print)	Phone:	Fax:
Company Name:	Email Address:	Proposing as:
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Mailing Address:	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm



Nama (Brint)	Phone:	
Name (Print) Jenemy Ashley	512 459 9494	Fax:
Company Name:	Email Address:	Proposing as: Prime Contractor
Jexas Solar Ponen Lompay	City, State, Zip: Ay In Texas 78723	s Subcontractor
Mailing Address:	City, State, Zip:	C- 11kip - BADE - MADE - Main Main situ Sinne
6448 HWY 290 East Sile 6112	Aydin Texas 78723	© HUB □ MBE □ WBE □ Non-Minority Firm
Name (Print)	Phone:	Fax:
MICHAFL COWALL	972.374.9120	=103
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Name (Print)	Phone:	Fax:
Zachary Moore	512 745 6754	
Company Name:	Email Address:	Proposing as: Prime Contractor
Texas Roofing Co.	Zuch M @ Texas Roofing. Com	Z Subcontractor
Mailing Address: —	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
16809 Radholme Ct	Round Rock TX 78664	HOD HINDE HAVE HINDING PITTE
Name (Print) Company Name:	Phone:	Fax:
Company Name:	Email Address:	Proposing as: Prime Contractor
		Subcontractor
Mailing Address:	City, State, Zip:	3ubcontractor
Mulling Addicas.	City, State, 21p.	□ HUB □ MBE □ WBE □ Non-Minority Firm
Name (Print) Shay Trawlek	Phone: 513 /// CZ CZ -	Fax:
Shay Irawlek	512-468-9227	
Company Name.	Email Address:	Proposing as:
QA Construction Services Inc.	Shay Dogacsi, com	□ Subcontractor
Mailing Address:	City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
5811 Blue Bluff Rd	City, State, Zip: 78724	□ HUB □ MBÉ □ WBE □ Non-Minority Firm



Phone:	Fax:
512 647 8476	
	Proposing as: 💅 Prime Contractor
DANIEL-STUMPE TOINDUSTRIES.COM	
City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
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Phone: 254-495-0318	Fax:
Email Address:	Proposing as: Prime Contractor
JOSH OPANOEMECHANICAL, COM	□ Subcontractor
City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
WACO TX 76712	TOD BINDE B WOL B NOTIFICATION OF THE
Phone:	Fax:
Frank Addison.	Daniel Cartes Ca
Email Address:	Proposing as: Prime Contractor
	□ Subcontractor
City, State, Zip:	□ HUB □ MBE □ WBE □ Non-Minority Firm
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	Subcontractor
City, State, Zip:	
	□ HUB □ MBE □ WBE □ Non-Minority Firm
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	□ Subcontractor
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