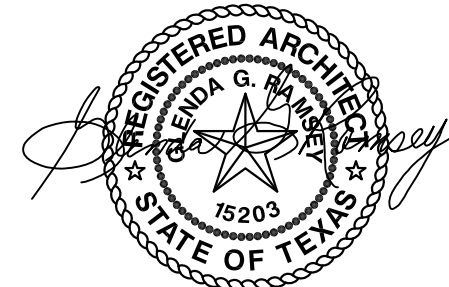


DEMOLITION / ARCHITECTURAL / STRUCTURAL

NO.	SHEET NAME
----	COVER SHEET
AD101	FIRST FLOOR - DEMOLITION
AD102	SECOND FLOOR - DEMOLITION
AD103	THIRD FLOOR - DEMOLITION
S101	STRUCTURAL NOTES & SCHEDULES
S201	FOUNDATION PLAN
S202	ROOF FRAMING PLAN
S301	FOUNDATION DETAILS
A101	FIRST FLOOR - NEW
A102	SECOND FLOOR - NEW
A103	THIRD FLOOR - NEW
A301	WALL SECTIONS
A401	INTERIOR ELEVATIONS; CABINET SECTIONS
A501	OPENING ELEVATIONS; OPENING SCHEDULE; OPENING DETAILS
A701	FIRST FLOOR - NEW - REFLECTED CEILING
A702	SECOND FLOOR - NEW - REFLECTED CEILING
A703	THIRD FLOOR - NEW - REFLECTED CEILING
A704	FIRST FLOOR FURNITURE PLAN
A705	SECOND FLOOR FURNITURE PLAN
A706	THIRD FLOOR FURNITURE PLAN
QF101	ENLARGED THIRD FLR. PLAN - PARTIAL - NEW; SCIENCE LAB & STO. (ALT. #3B & #3C)

MECHANICAL / ELECTRICAL / PLUMBING

NO.	SHEET NAME
MO.1	MECHANICAL NOTES, SYMBOLS, & ABBREVIATIONS
MO.2	MECHANICAL SCHEDULES
M1.1	FIRST FLOOR MECHANICAL DEMOLITION PLAN
M1.2	SECOND FLOOR MECHANICAL DEMOLITION PLAN
M1.3	THIRD FLOOR MECHANICAL DEMOLITION PLAN
M2.1	FIRST FLOOR MECHANICAL PLAN
M2.2	SECOND FLOOR MECHANICAL PLAN
M2.3	THIRD FLOOR MECHANICAL PLAN
M6.1	MECHANICAL DETAILS
EO.1	ELECTRICAL NOTES, SYMBOLS, & ABBREVIATIONS; POWER DEVICE SCH.
E1.1	FIRST FLOOR ELECTRICAL DEMOLITION PLAN
E1.2	SECOND FLOOR ELECTRICAL DEMOLITION PLAN
E1.3	THIRD FLOOR ELECTRICAL DEMOLITION PLAN
E2.1	FIRST FLOOR ELECTRICAL PLAN
E2.2	SECOND FLOOR ELECTRICAL PLAN
E2.3	THIRD FLOOR ELECTRICAL PLAN
E3.1	FIRST FLOOR LIGHTING PLAN
E3.2	SECOND FLOOR LIGHTING PLAN
E3.3	THIRD FLOOR LIGHTING PLAN
P001	PLUMBING NOTES, SYMBOLS, & ABBREVIATIONS
P100	UNDER FLOOR PLUMBING DEMOLITION PLAN
P101a	FIRST FLOOR PLUMBING DEMOLITION PLAN
P101b	FIRST FLOOR MEDICAL GAS DEMOLITION PLAN
P102a	SECOND FLOOR PLUMBING DEMOLITION PLAN
P102b	SECOND FLOOR MEDICAL GAS DEMOLITION PLAN
P103a	THIRD FLOOR PLUMBING DEMOLITION PLAN
P103b	THIRD FLOOR MEDICAL GAS DEMOLITION PLAN
P200	UNDER FLOOR PLUMBING PLAN
P201	FIRST FLOOR PLUMBING PLAN
P202	SECOND FLOOR PLUMBING PLAN
P203	THIRD FLOOR PLUMBING PLAN
P301	PLUMBING RISER DIAGRAMS & DETAILS



GLEND A. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 25 APRIL 2019



RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 WICHITA FALLS, TEXAS
 3410 TAFT BOULEVARD

RENOVATION OF J.S. BRIDWELL HALL FOR MIDWESTERN STATE UNIVERSITY WICHITA FALLS, TEXAS



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 ARCHITECTS PROGRAMMERS PLANNERS

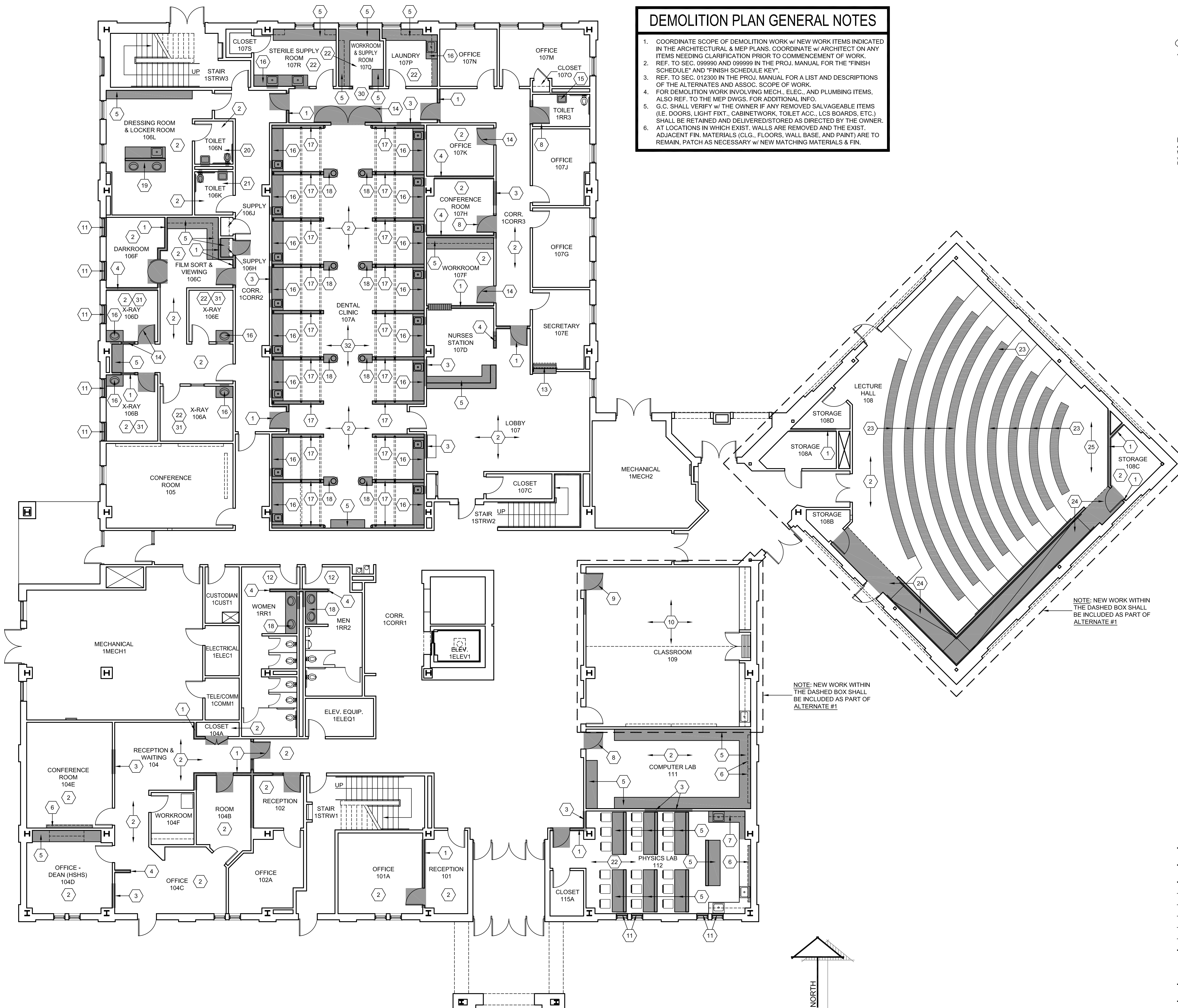
4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 940.767.1421 FAX: 940.397.0273
 E-MAIL: office@harperperkins.com WEB: http://www.harperperkins.com

BUILDING CODE SUMMARY				
PROJECT NAME	RENOVATION OF J.S. BRIDWELL HALL FOR MSU			
BUILDING CODE/YEAR	INTERNATIONAL BUILDING CODE; 2015			
BUILDING NAME	BUILDING SQ. FT.	OCCUPANCY	BUILDING HEIGHT	BUILDING TYPE
J.S. BRIDWELL HALL	43,761 SQ. FT.	MIXED (EDUCATIONAL, BUSINESS, ASSEMBLY)	45'-0"± A.F.F. (THREE STORY & ONE STORY)	TYPE II

DRAWN BY: SAM K. KENSHALO		SET NUMBER
DATE: 1 APRIL 2019		
REVISIONS		
NO.	DESCRIPTION	DATE
18833.00		
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DEMOLITION PLAN KEYNOTES

- REMOVE THE EXIST. WALL & ASSOC. DOOR AND/OR WINDOW COMPLETELY. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.; NOTE: THE WALLS IN "RADIOLOGY #1 205", "RADIOLOGY #2 207", "RADIOLOGY #3 209", AND "RADIOLOGY #4 211" ARE LEAD-LINED WALLS. AS PART OF THE DEMOLITION & DISPOSAL WORK ASSOC. WITH THESE WALLS, THE LEAD SHALL BE SEPARATED AND DISPOSED OF OR RECYCLED PROPERLY.
- REMOVE THE EXIST. CLG. (w/ ASSOC. ELEC. & MECH. ITEMS), FLOOR FIN., OR WALL BASE COMPLETELY - PREPARE FOR NEW FIN. AS PER THE "FINISH SCHEDULE" IN THE PROJ. MANUAL. REF. TO THE MECH., ELEC., & PLUMBING SHEETS FOR MORE INFO. ON MEP ITEMS. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE A PORTION OF THE EXIST. WALL AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- REMOVE THE EXIST. WALL COMPLETELY.
- REMOVE THE EXIST. CABINETWORK COMPLETELY. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. PROJECTION SCREEN COMPLETELY - SALVAGE AND DELIVER TO THE OWNER. REF. TO THE "FLOOR PLANS" FOR MORE INFO. REF. TO THE ELEC. PLANS FOR ANY ASSOC. DEMOLITION WORK. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE A PORTION OF THE EXIST. CABINETWORK & ASSOC. SINK AS SHOWN. REF. TO THE PLUMBING PLANS FOR ANY ASSOC. DEMOLITION WORK.
- REMOVE THE EXIST. DOOR & FR. COMPLETELY AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- ALTERNATE #1: REMOVE THE EXIST. DOOR & FR. COMPLETELY AND A PORTION OF THE EXIST. WALL AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- ALTERNATE #1: REMOVE THE EXIST. FLOOR FIN. AND WALL BASE COMPLETELY - PREPARE FOR NEW FIN. AS PER THE "FINISH SCHEDULE" IN THE PROJ. MANUAL.
- REMOVE THE EXIST. "TEMPORARY" DRYWALLS ON THE INTERIOR SIDE OF THE EXIST. WINDOW UNITS - THE WINDOWS SHALL REMAIN IN PLACE. PATCH THE EXIST. WALLS AT THE PERIMETER OF THE WINDOWS w/ MATCHING MATERIALS & FIN.
- REMOVE A PORTION OF THE EXIST. CLG. (w/ ASSOC. ELEC. & MECH. ITEMS), FLOOR FIN., AND WALL BASE FOR THE INSTALLATION OF THE NEW WALL - REF. TO THE "FLOOR PLAN" FOR MORE INFO. AFTER NEW WALL IS INSTALLED, PATCH THE EXIST. CLG. & FIN. w/ MATCHING MATERIALS & FIN.
- REMOVE THE EXIST. ROLLING COUNTER DOOR UNIT COMPLETELY. INFILL THE OPNG. w/ MATCHING MATERIAL & FIN.
- REMOVE THE EXIST. DOOR & FRAME COMPLETELY. INFILL THE OPENING w/ MATCHING WALL MATERIAL AND FIN. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. LAV. AND A PORTION OF THE EXIST. WALL AND PREPARE FOR A NEW LAV. - REF. TO THE "PLUMBING PLANS" FOR MORE INFO. PATCH THE WALL AS NECESSARY w/ MATCHING MATERIAL AND FIN. THE EXIST. TOILET ACCESSORIES SHALL BE REUSED AND RELOCATED TO THE NEW LAV. LOCATION.
- REMOVE THE EXIST. CABINETWORK & ASSOC. SINK COMPLETELY. REMOVE A PORTION OF THE EXIST. WALL AS NECESSARY FOR PLUMBING DEMO. - REF. TO THE "PLUMBING PLANS" FOR MORE INFO. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. LOW WALL AND ASSOC. EXIST. OVERHD. MECH., ELEC., AND PLUMBING ITEMS. REF. TO THE MECH., ELEC., & PLUMBING PLANS FOR MORE INFO. ON MEP ITEMS.
- REMOVE THE EXIST. CABINETWORK & ASSOC. LAV. COMPLETELY. REF. TO THE "PLUMBING PLANS" FOR MORE INFO. ON ASSOC. DEMOLITION WORK.
- REMOVE THE EXIST. LOW WALL AND CABINETWORK w/ ASSOC. SINKS COMPLETELY AND PREPARE FOR NEW CABINETWORK & PLUMBING FIXTURE. REF. TO THE "PLUMBING PLANS" FOR MORE INFO. ON ASSOC. DEMOLITION WORK.
- REMOVE THE EXIST. PLUMBING FIXT. AND TOILET ACCESSORIES COMPLETELY. REMOVE A PORTION OF THE EXIST. WALL AS NECESSARY FOR PLUMBING DEMO. - REF. TO THE "PLUMBING PLANS" FOR MORE INFO. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. PLUMBING FIXT. AND TOILET ACCESSORIES COMPLETELY. REMOVE A PORTION OF THE EXIST. WALL AS NECESSARY FOR PLUMBING DEMO. OR INSTALLATION OF A NEW SINK - REF. TO THE "PLUMBING PLANS" FOR MORE INFO.
- REMOVE THE EXIST. FLOORING AND WALL BASE COMPLETELY AND PREPARE FOR NEW MATERIALS. REF. TO THE "FINISH SCHEDULE" IN THE PROJ. MANUAL FOR MORE INFO. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- ALTERNATE #1: EXIST. TABLES TO BE REMOVED COMPLETELY. AT THE UPPER TIER, PATCH THE EXIST. CONC. SLAB AT VERT. SUPPORT LOCATIONS.
- ALTERNATE #1: REMOVE THE EXIST. RAMPS AND ASSOC. DRYWALLS AND FURR-DNS. COMPLETELY.
- ALTERNATE #1: REMOVE THE EXIST. DRYWALL CLGS. COMPLETELY. REF. TO THE MECH., ELEC., & PLUMBING SHEETS FOR MORE INFO. ON MEP ITEMS.
- EXIST. FLR. ELEC. RACEWAY TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXIST. LCS BOARD TO BE REMOVED COMPLETELY. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
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- REMOVE THE EXIST. ELEC. VERT. RACEWAY. PATCH THE VOID IN THE EXIST. WALL w/ MATCHING MATERIALS & FIN. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE A PORTION OF THE EXISTING WALLS AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- EXIST. EQUIPMENT IN THIS SPACE IS TO BE REMOVED BY THE OWNER PRIOR TO THE START OF DEMOLITION WORK. IF ANY EQUIPMENT REMAINS IN PLACE AT THE TIME OF STARTING THE WORK, COORDINATE w/ THE OWNER ON ITS REMOVAL & RELOCATION.
- EXIST. DENTAL CHAIRS AND ASSOC. EQUIPMENT & CABINETWORK IN THIS SPACE ARE TO BE REMOVED BY THE OWNER PRIOR TO THE START OF DEMOLITION WORK. IF ANY EQUIPMENT REMAINS IN PLACE AT THE TIME OF STARTING THE WORK, COORDINATE w/ THE OWNER ON ITS REMOVAL & RELOCATION.



DEMOLITION PLAN GENERAL NOTES

- COORDINATE SCOPE OF DEMOLITION WORK w/ NEW WORK ITEMS INDICATED IN THE ARCHITECTURAL & MEP PLANS. COORDINATE w/ ARCHITECT ON ANY ITEMS NEEDING CLARIFICATION PRIOR TO COMMENCEMENT OF WORK.
- REF. TO SEC. 099990 AND 099999 IN THE PROJ. MANUAL FOR THE "FINISH SCHEDULE" AND "FINISH SCHEDULE KEY".
- REF. TO SEC. 012300 IN THE PROJ. MANUAL FOR A LIST AND DESCRIPTIONS OF THE ALTERNATES AND ASSOC. SCOPE OF WORK.
- FOR DEMOLITION WORK INVOLVING MECH., ELEC., AND PLUMBING ITEMS, ALSO REF. TO THE MEP DWGS. FOR ADDITIONAL INFO.
- G.C. SHALL VERIFY w/ THE OWNER IF ANY REMOVED SALVAGEABLE ITEMS (I.E. DOORS, LIGHT FIXT., CABINETWORK, TOILET ACC., LCS BOARDS, ETC.) SHALL BE RETAINED AND DELIVERED/STORED AS DIRECTED BY THE OWNER.
- AT LOCATIONS IN WHICH EXIST. WALLS ARE REMOVED AND THE EXIST. ADJACENT FIN. MATERIALS (CLG., FLOORS, WALL BASE, AND PAINT) ARE TO REMAIN, PATCH AS NECESSARY w/ NEW MATCHING MATERIALS & FIN.

REGISTERED ARCHITECT
 GLENDA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 25 APRIL 2019

HPA
 ARCHITECTS PROGRAMMERS PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 940.767.1421 FAX: 940.767.0273
 E-MAIL: glenda@harperperkins.com WEB: www.harperperkins.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 34110 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO
 DATE: 1 APRIL 2019

REVISIONS		
NO.	DESCRIPTION	DATE

18833.00
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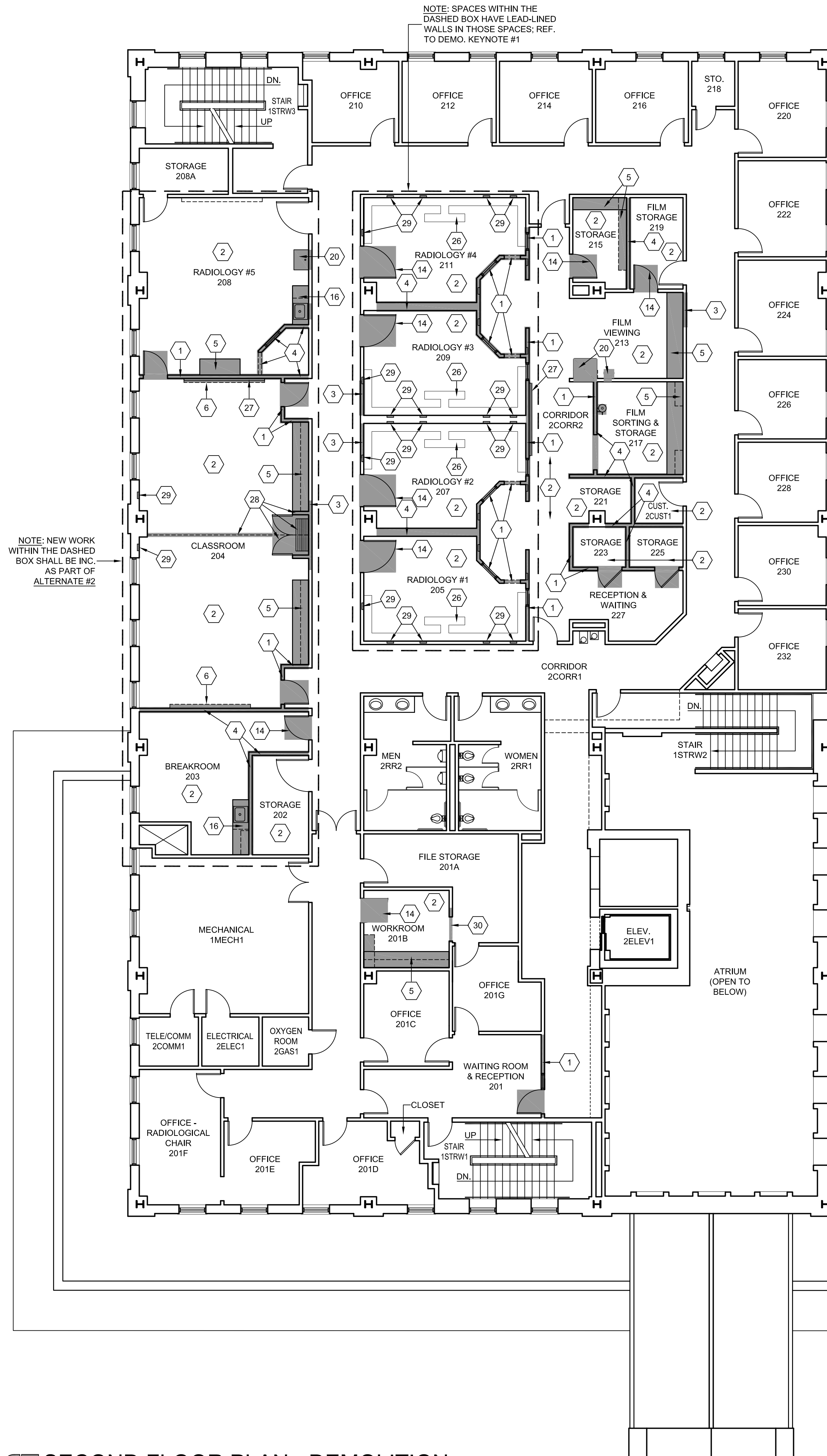
AD101

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

DEMOLITION PLAN KEYNOTES

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- REMOVE A PORTION OF THE EXIST. CABINETWORK & ASSOC. SINK AS SHOWN. REF. TO THE PLUMBING PLANS FOR ANY ASSOC. DEMOLITION WORK.
- REMOVE THE EXIST. DOOR & FR. COMPLETELY AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- ALTERNATE #1: REMOVE THE EXIST. DOOR & FR. COMPLETELY AND A PORTION OF THE EXIST. WALL AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- ALTERNATE #2: REMOVE THE EXIST. FLOOR FIN. AND WALL BASE COMPLETELY - PREPARE FOR NEW FIN. AS PER THE "FINISH SCHEDULE" IN THE PROJ. MANUAL.
- REMOVE THE EXIST. "TEMPORARY" DRYWALLS ON THE INTERIOR SIDE OF THE EXIST. WINDOW UNITS - THE WINDOWS SHALL REMAIN IN PLACE. PATCH THE EXIST. WALLS AT THE PERIMETER OF THE WINDOWS w/ MATCHING MATERIALS & FIN.
- REMOVE A PORTION THE EXIST. CLG. (w/ ASSOC. ELEC. & MECH. ITEMS), FLOOR FIN., AND WALL BASE FOR THE INSTALLATION OF THE NEW WALL - REF. TO THE "FLOOR PLAN" FOR MORE INFO. AFTER NEW WALL IS INSTALLED, PATCH THE EXIST. CLG. & FIN. w/ MATCHING MATERIALS & FIN.
- REMOVE THE EXIST. ROLLING COUNTER DOOR UNIT COMPLETELY. INFILL THE OPNG. w/ MATCHING MATERIAL & FIN.
- REMOVE THE EXIST. DOOR & FRAME COMPLETELY. INFILL THE OPENING w/ MATCHING WALL MATERIAL AND FIN. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. LAV. AND A PORTION OF THE EXIST. WALL AND PREPARE FOR A NEW LAV. - REF. TO THE "PLUMBING PLANS" FOR MORE INFO. PATH THE WALL AS NECESSARY w/ MATCHING MATERIAL AND FIN. THE EXIST. TOILET ACCESSORIES SHALL BE REUSED AND RELOCATED TO THE NEW LAV. LOCATION.
- REMOVE THE EXIST. CABINETWORK & ASSOC. SINK COMPLETELY. REMOVE A PORTION OF THE EXIST. WALL AS NECESSARY FOR PLUMBING DEMO. - REF. TO THE "PLUMBING PLANS" FOR MORE INFO. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
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- REMOVE THE EXIST. CABINETWORK & ASSOC. LAV. COMPLETELY. REF. TO THE "PLUMBING PLANS" FOR MORE INFO. ON ASSOC. DEMOLITION WORK.
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- REMOVE THE EXIST. PLUMBING FIXT. AND TOILET ACCESSORIES COMPLETELY. REMOVE A PORTION OF THE EXIST. WALL AS NECESSARY FOR PLUMBING DEMO. - REF. TO THE "PLUMBING PLANS" FOR MORE INFO. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. PLUMBING FIXT. AND TOILET ACCESSORIES COMPLETELY. REMOVE A PORTION OF THE EXIST. WALL AS NECESSARY FOR PLUMBING DEMO. OR INSTALLATION OF A NEW SINK - REF. TO THE "PLUMBING PLANS" FOR MORE INFO.
- REMOVE THE EXIST. FLOORING AND WALL BASE COMPLETELY AND PREPARE FOR NEW MATERIALS. REF. TO THE "FINISH SCHEDULE" IN THE PROJ. MANUAL FOR MORE INFO. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
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- ALTERNATE #1: REMOVE THE EXIST. RAMPS AND ASSOC. DRYWALLS AND FURR-DNS. COMPLETELY.
- ALTERNATE #1: REMOVE THE EXIST. DRYWALL CLGS. COMPLETELY. REF. TO THE MECH., ELEC., & PLUMBING SHEETS FOR MORE INFO. ON MEP ITEMS.
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- EXIST. LCS BOARD TO BE REMOVED COMPLETELY. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. OPERABLE PARTITION AND ASSOC. WALLS, SECONDARY STR. STL. SUPPORT MEMBERS, ETC. COMPLETELY. REF. TO THE "ELECTRICAL PLANS" FOR MORE INFO. ON ASSOC. DEMOLITION WORK. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. ELEC. VERT. RACEWAY. PATCH THE VOID IN THE EXIST. WALL w/ MATCHING MATERIALS & FIN. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE A PORTION OF THE EXISTING WALLS AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- EXIST. EQUIPMENT IN THIS SPACE IS TO BE REMOVED BY THE OWNER PRIOR TO THE START OF DEMOLITION WORK. IF ANY EQUIPMENT REMAINS IN PLACE AT THE TIME OF STARTING THE WORK, COORDINATE w/ THE OWNER ON ITS REMOVAL & RELOCATION.
- EXIST. DENTAL CHAIRS AND ASSOC. EQUIPMENT & CABINETWORK IN THIS SPACE ARE TO BE REMOVED BY THE OWNER PRIOR TO THE START OF DEMOLITION WORK. IF ANY EQUIPMENT REMAINS IN PLACE AT THE TIME OF STARTING THE WORK, COORDINATE w/ THE OWNER ON ITS REMOVAL & RELOCATION.

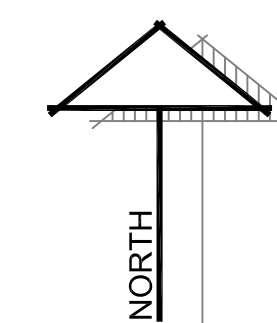
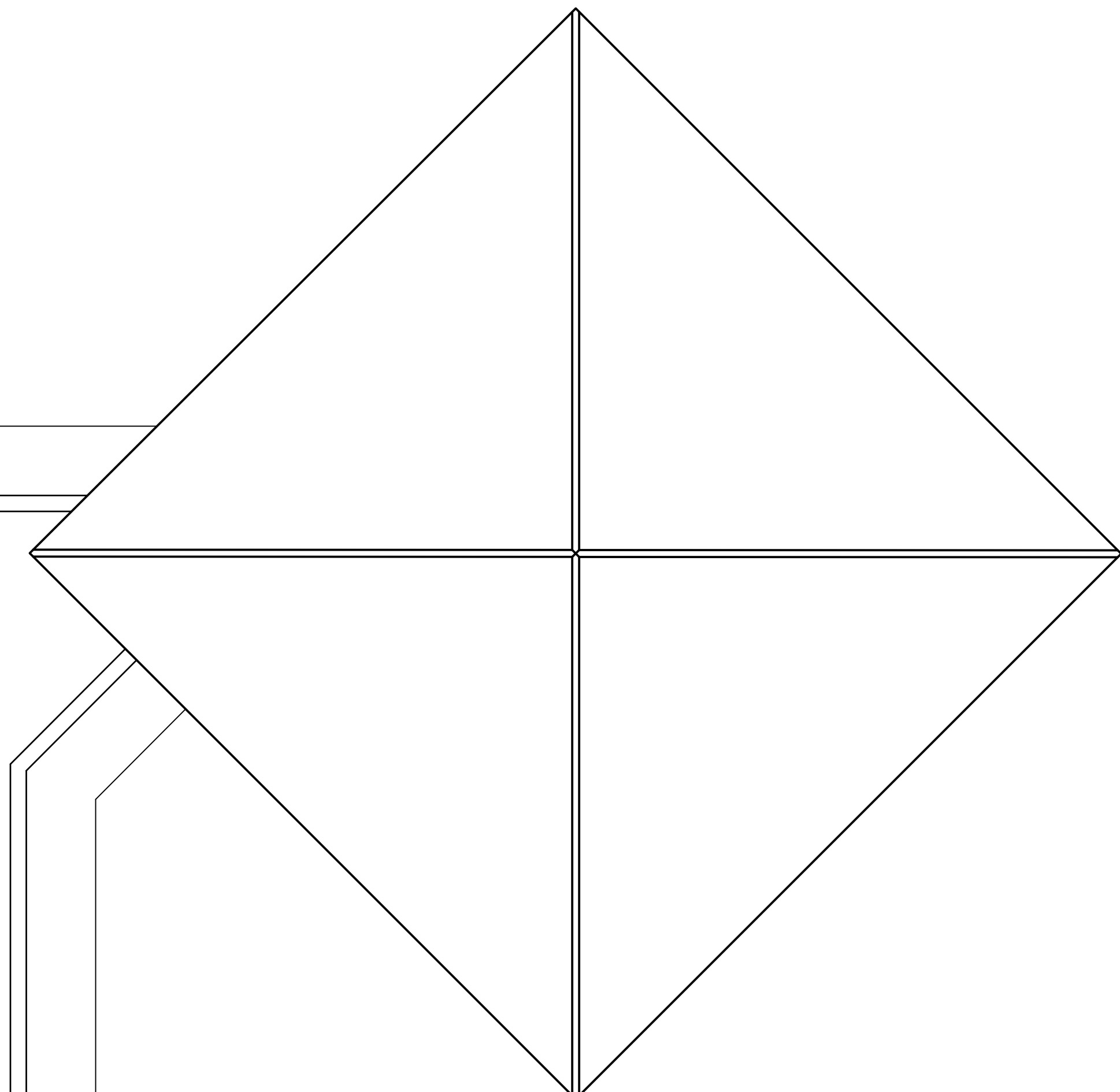
NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INC. AS PART OF ALTERNATE #2



NOTE: SPACES WITHIN THE DASHED BOX HAVE LEAD-LINED WALLS IN THOSE SPACES; REF. TO DEMO. KEYNOTE #1

DEMOLITION PLAN GENERAL NOTES

- COORDINATE SCOPE OF DEMOLITION WORK w/ NEW WORK ITEMS INDICATED IN THE ARCHITECTURAL & MEP PLANS. COORDINATE w/ ARCHITECT ON ANY ITEMS NEEDING CLARIFICATION PRIOR TO COMMENCEMENT OF WORK.
- REF. TO SEC. 099990 AND 099999 IN THE PROJ. MANUAL FOR THE "FINISH SCHEDULE" AND "FINISH SCHEDULE KEY".
- REF. TO SEC. 012300 IN THE PROJ. MANUAL FOR A LIST AND DESCRIPTIONS OF THE ALTERNATES AND ASSOC. SCOPE OF WORK.
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- G.C. SHALL VERIFY w/ THE OWNER IF ANY REMOVED SALVAGEABLE ITEMS (I.E. DOORS, LIGHT FIXT., CABINETWORK, TOILET ACC., LCS BOARDS, ETC.) SHALL BE RETAINED AND DELIVERED/STORED AS DIRECTED BY THE OWNER.
- AT LOCATIONS IN WHICH EXIST. WALLS ARE REMOVED AND THE EXIST. ADJACENT FIN. MATERIALS (CLG., FLOORS, WALL BASE, AND PAINT) ARE TO REMAIN, PATCH AS NECESSARY w/ NEW MATCHING MATERIALS & FIN.



SECOND FLOOR PLAN - DEMOLITION

REGISTERED ARCHITECT
 GLENDA G. RAMSEY
 19203
 STATE OF TEXAS

GLENDA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 25 APRIL 2019

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 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 817.767.1421 FAX: 817.767.0223
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RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 34110 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO
 DATE: 1 APRIL 2019

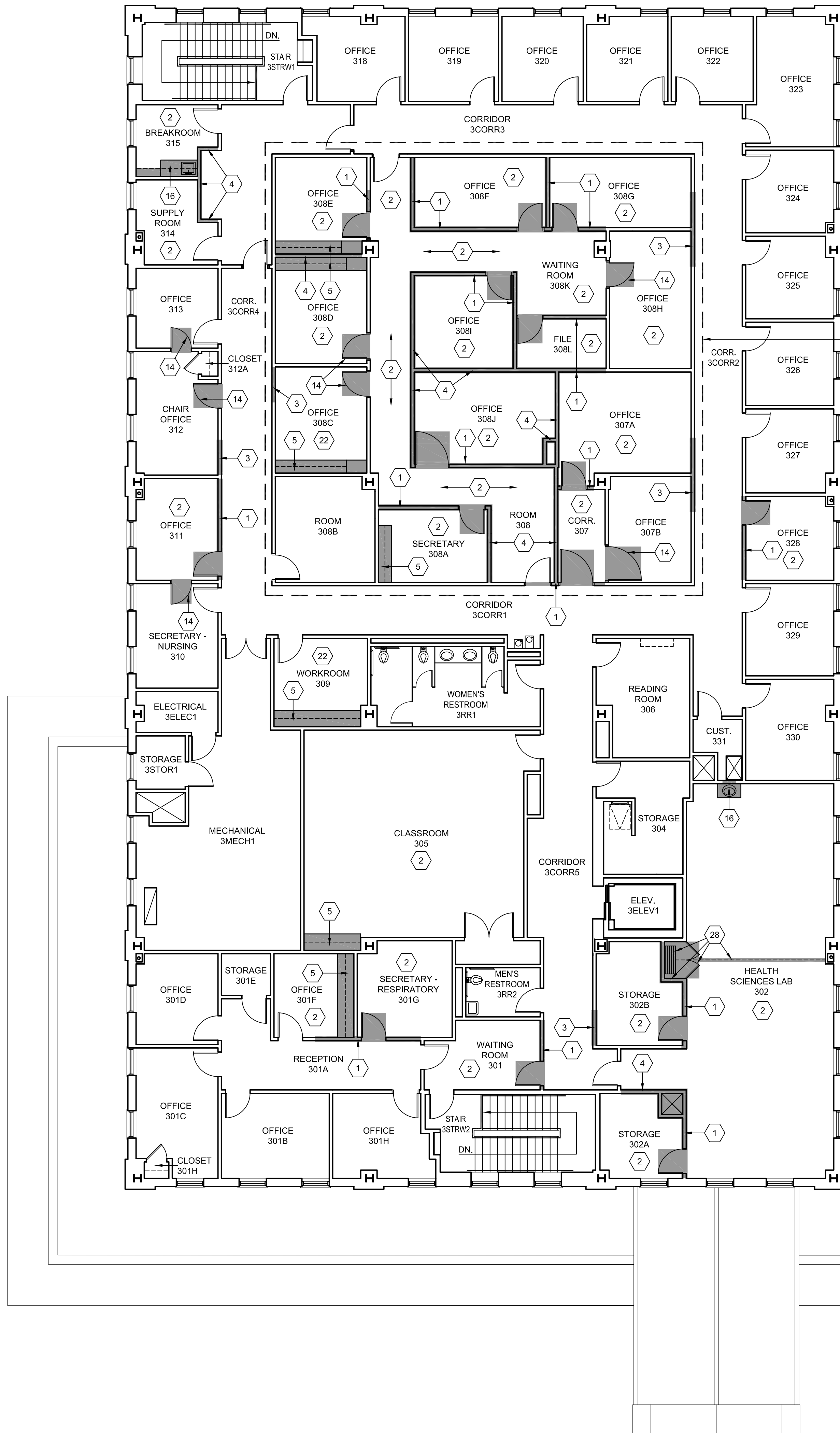
REVISIONS		
NO.	DESCRIPTION	DATE

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AD102

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

DEMOLITION PLAN KEYNOTES

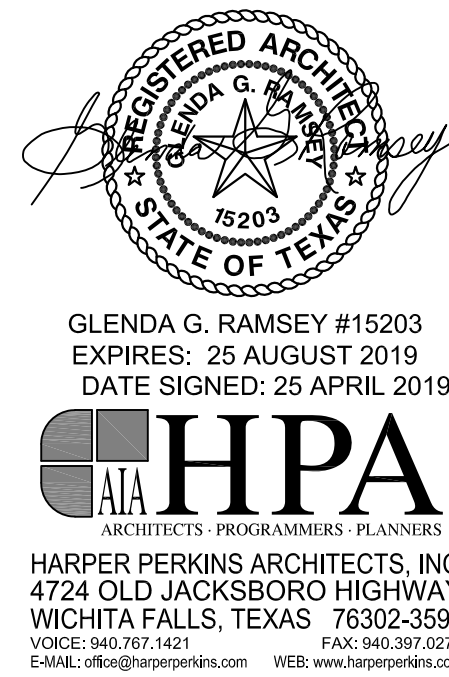
- REMOVE THE EXIST. WALL & ASSOC. DOOR AND/OR WINDOW COMPLETELY. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO. NOTE: THE WALLS IN "RADIOLOGY #1 205", "RADIOLOGY #2 207", "RADIOLOGY #3 209", AND "RADIOLOGY #4 211", ARE LEAD-LINED WALLS. AS PART OF THE DEMOLITION AND DISPOSAL WORK ASSOC. WITH THESE WALLS, THE LEAD SHALL BE SEPARATED AND DISPOSED OF OR RECYCLED PROPERLY.
- REMOVE THE EXIST. CLG. (w/ ASSOC. ELEC. & MECH. ITEMS), FLOOR FIN., OR WALL BASE COMPLETELY - PREPARE FOR NEW FIN. AS PER THE "FINISH SCHEDULE" IN THE PROJ. MANUAL. REF. TO THE MECH., ELEC., & PLUMBING SHEETS FOR MORE INFO. ON MEP ITEMS. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE A PORTION OF THE EXIST. WALL AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- REMOVE THE EXIST. WALL COMPLETELY.
- REMOVE THE EXIST. CABINETWORK COMPLETELY. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. PROJECTION SCREEN COMPLETELY - SALVAGE AND DELIVER TO THE OWNER. REF. TO THE "FLOOR PLANS" FOR MORE INFO. REF. TO THE ELEC. PLANS FOR ANY ASSOC. DEMOLITION WORK. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE A PORTION OF THE EXIST. CABINETWORK & ASSOC. SINK AS SHOWN. REF. TO THE PLUMBING PLANS FOR ANY ASSOC. DEMOLITION WORK.
- REMOVE THE EXIST. DOOR & FR. COMPLETELY AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- ALTERNATE #1: REMOVE THE EXIST. DOOR & FR. COMPLETELY AND A PORTION OF THE EXIST. WALL AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- ALTERNATE #1: REMOVE THE EXIST. FLOOR FIN. AND WALL BASE COMPLETELY - PREPARE FOR NEW FIN. AS PER THE "FINISH SCHEDULE" IN THE PROJ. MANUAL.
- REMOVE THE EXIST. "TEMPORARY" DRYWALLS ON THE INTERIOR SIDE OF THE EXIST. WINDOW UNITS - THE WINDOWS SHALL REMAIN IN PLACE. PATCH THE EXIST. WALLS AT THE PERIMETER OF THE WINDOWS w/ MATCHING MATERIALS & FIN.
- REMOVE A PORTION OF THE EXIST. CLG. (w/ ASSOC. ELEC. & MECH. ITEMS), FLOOR FIN., AND WALL BASE FOR THE INSTALLATION OF THE NEW WALL - REF. TO THE "FLOOR PLANS" FOR MORE INFO. AFTER NEW WALL IS INSTALLED, PATCH THE EXIST. CLG. & FIN. w/ MATCHING MATERIALS & FIN.
- REMOVE THE EXIST. ROLLING COUNTER DOOR UNIT COMPLETELY. INFILL THE OPNG. w/ MATCHING MATERIAL & FIN.
- REMOVE THE EXIST. DOOR & FRAME COMPLETELY. INFILL THE OPENING w/ MATCHING WALL MATERIAL AND FIN. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. LAV. AND A PORTION OF THE EXIST. WALL AND PREPARE FOR A NEW LAV. - REF. TO THE "PLUMBING PLANS" FOR MORE INFO. PATH THE WALL AS NECESSARY w/ MATCHING MATERIAL AND FIN. THE EXIST. TOILET ACCESSORIES SHALL BE REUSED AND RELOCATED TO THE NEW LAV. LOCATION.
- REMOVE THE EXIST. CABINETWORK & ASSOC. SINK COMPLETELY. REMOVE A PORTION OF THE EXIST. WALL AS NECESSARY FOR PLUMBING DEMO. - REF. TO THE "PLUMBING PLANS" FOR MORE INFO. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. LOW WALL AND ASSOC. EXIST. OVERHD. MECH., ELEC., AND PLUMBING ITEMS. REF. TO THE MECH., ELEC., & PLUMBING PLANS FOR MORE INFO. ON MEP ITEMS.
- REMOVE THE EXIST. CABINETWORK & ASSOC. LAV. COMPLETELY. REF. TO THE "PLUMBING PLANS" FOR MORE INFO. ON ASSOC. DEMOLITION WORK.
- REMOVE THE EXIST. LOW WALL AND CABINETWORK w/ ASSOC. SINKS COMPLETELY AND PREPARE FOR NEW CABINETWORK & PLUMBING FIXTURE. REF. TO THE "PLUMBING PLANS" FOR MORE INFO. ON ASSOC. DEMOLITION WORK.
- REMOVE THE EXIST. PLUMBING FIXT. AND TOILET ACCESSORIES COMPLETELY. REMOVE A PORTION OF THE EXIST. WALL AS NECESSARY FOR PLUMBING DEMO. - REF. TO THE "PLUMBING PLANS" FOR MORE INFO. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. PLUMBING FIXT. AND TOILET ACCESSORIES COMPLETELY. REMOVE A PORTION OF THE EXIST. WALL AS NECESSARY FOR PLUMBING DEMO. OR INSTALLATION OF A NEW SINK - REF. TO THE "PLUMBING PLANS" FOR MORE INFO.
- REMOVE THE EXIST. FLOORING AND WALL BASE COMPLETELY AND PREPARE FOR NEW MATERIALS. REF. TO THE "FINISH SCHEDULE" IN THE PROJ. MANUAL FOR MORE INFO. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- ALTERNATE #1: EXIST. TABLES TO BE REMOVED COMPLETELY. AT THE UPPER TIER. PATCH THE EXIST. CONC. SLAB AT VERT. SUPPORT LOCATIONS.
- ALTERNATE #1: REMOVE THE EXIST. RAMPS AND ASSOC. DRYWALLS AND FURR-DNS. COMPLETELY.
- ALTERNATE #1: REMOVE THE EXIST. DRYWALL CLGS. COMPLETELY. REF. TO THE MECH., ELEC., & PLUMBING SHEETS FOR MORE INFO. ON MEP ITEMS.
- EXIST. FLR. ELEC. RACEWAY TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXIST. LOS BOARD TO BE REMOVED COMPLETELY. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. OPERABLE PARTITION AND ASSOC. WALLS, SECONDARY STR. STL. SUPPORT MEMBERS, ETC. COMPLETELY. REF. TO THE "ELECTRICAL PLANS" FOR MORE INFO. ON ASSOC. DEMOLITION WORK. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE THE EXIST. ELEC. VERT. RACEWAY. PATCH THE VOID IN THE EXIST. WALL w/ MATCHING MATERIALS & FIN. NOTE: AT SOME LOCATIONS, WORK MAY BE INCLUDED AS PART OF AN ALTERNATE IN LIEU OF BASE BID - REF. TO THE "FLOOR PLANS" AND THE PROJ. MANUAL FOR MORE INFO.
- REMOVE A PORTION OF THE EXISTING WALLS AND PREPARE FOR A NEW OPNG. REF. TO THE "FLOOR PLANS", "OPENING ELEVATIONS", AND "OPENING SCHEDULE" FOR MORE INFO.
- EXIST. EQUIPMENT IN THIS SPACE IS TO BE REMOVED BY THE OWNER PRIOR TO THE START OF DEMOLITION WORK. IF ANY EQUIPMENT REMAINS IN PLACE AT THE TIME OF STARTING THE WORK, COORDINATE w/ THE OWNER ON ITS REMOVAL & RELOCATION.
- EXIST. DENTAL CHAIRS AND ASSOC. EQUIPMENT & CABINETWORK IN THIS SPACE ARE TO BE REMOVED BY THE OWNER PRIOR TO THE START OF DEMOLITION WORK. IF ANY EQUIPMENT REMAINS IN PLACE AT THE TIME OF STARTING THE WORK, COORDINATE w/ THE OWNER ON ITS REMOVAL & RELOCATION.



NOTE: DEMOLITION WORK WITHIN THE DASHED BOX SHALL BE INCLUDED AS PART OF ALTERNATE #3A

DEMOLITION PLAN GENERAL NOTES

- COORDINATE SCOPE OF DEMOLITION WORK w/ NEW WORK ITEMS INDICATED IN THE ARCHITECTURAL & MEP PLANS. COORDINATE w/ ARCHITECT ON ANY ITEMS NEEDING CLARIFICATION PRIOR TO COMMENCEMENT OF WORK.
- REF. TO SEC. 099990 AND 099999 IN THE PROJ. MANUAL FOR THE "FINISH SCHEDULE" AND "FINISH SCHEDULE KEY".
- REF. TO SEC. 012300 IN THE PROJ. MANUAL FOR A LIST AND DESCRIPTIONS OF THE ALTERNATES AND ASSOC. SCOPE OF WORK.
- FOR DEMOLITION WORK INVOLVING MECH., ELEC., AND PLUMBING ITEMS, ALSO REF. TO THE MEP DWGS. FOR ADDITIONAL INFO.
- G.C. SHALL VERIFY w/ THE OWNER IF ANY REMOVED SALVAGEABLE ITEMS (I.E. DOORS, LIGHT FIXT., CABINETWORK, TOILET ACC., LCS BOARDS, ETC.) SHALL BE RETAINED AND DELIVERED/STORED AS DIRECTED BY THE OWNER.
- AT LOCATIONS IN WHICH EXIST. WALLS ARE REMOVED AND THE EXIST. ADJACENT FIN. MATERIALS (CLG., FLOORS, WALL BASE, AND PAINT) ARE TO REMAIN, PATCH AS NECESSARY w/ NEW MATCHING MATERIALS & FIN.



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HARPER PERKINS ARCHITECTS, INC.
4724 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302-3599
VOICE: 817.367.1121 FAX: 817.367.0273
EMAIL: office@harperperkins.com WEB: www.harperperkins.com

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34110 TAFT BOULEVARD
WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO

DATE: 1 APRIL 2019

REVISIONS

NO.	DESCRIPTION	DATE

18833.00

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

THIRD FLOOR PLAN - DEMOLITION

GENERAL NOTES

- 1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE PROVISIONS OF THE 2015 INTERNATIONAL BUILDING CODE.
2. THE BUILDING STRUCTURE HAS BEEN DESIGNED TO RESIST THE FOLLOWING CODE PRESCRIBED LOADS:

LIVE LOADS

Table with 2 columns: LOAD TYPE and VALUE. Rows for ROOF (20 PSF) and FLOOR (100 PSF).

SNOW LOADS

Table with 2 columns: LOAD TYPE and VALUE. Rows for GROUND SNOW LOAD, SNOW IMPORTANCE FACTOR, SNOW EXPOSURE FACTOR, and THERMAL FACTOR.

WIND LOADS

Table with 2 columns: LOAD TYPE and VALUE. Rows for ULTIMATE DESIGN WIND SPEED and EXPOSURE CATEGORY.

SEISMIC LOADS

Table with 2 columns: LOAD TYPE and VALUE. Rows for OCCUPANCY CATEGORY, SEISMIC IMPORTANCE FACTOR, SPECTRAL RESPONSE COEFFICIENT, etc.

- 3. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE...
4. THE STRUCTURAL DRAWINGS SHALL NOT BE SCALED FOR DETERMINATION OF QUANTITY...
5. PRINCIPAL OPENINGS ARE INDICATED ON THE STRUCTURAL DRAWINGS...

STRUCTURAL CONCRETE NOTES

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 AND ACI 318...
2. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE COARSE AGGREGATES...
3. CONCRETE PROTECTION FOR STEEL REINFORCEMENT SHALL BE AS FOLLOWS...

REINFORCING STEEL NOTES

- 1. ALL DETAILING OF STEEL REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI COMMITTEE 315 PUBLICATION SP-66, "ACI DETAILING MANUAL."
2. DEFORMED BAR REINFORCEMENT SHALL BE DOMESTIC NEW BILLET STEEL IN CONFORMANCE WITH ASTM A615, GRADE 60.

ADHESIVE ANCHOR AND DOWEL NOTES

- 1. WHERE NOTED IN THE PLANS AND DETAILS, ADHESIVE ANCHORS AND DOWELS SHALL BE INSTALLED WITH HILTI HY200 SAFE SET EPOXY...
2. ADHESIVE ANCHORS AND/OR DOWELS NOT NOTED IN THE PLANS AND DETAILS ARE NOT ALLOWED WITHOUT PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER OF RECORD.

ANCHOR/DOWEL EMBEDMENT

Table with 2 columns: ANCHOR/DOWEL and EMBEDMENT. Rows for 3/8" DIA OR #3 BAR, 1/2" DIA OR #4 BAR, etc.

STRUCTURAL ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS ARE REFERENCED IN THE STRUCTURAL DRAWINGS. PLEASE CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ANY CLARIFICATION.

Large table listing structural abbreviations and their full names, such as ACI (AMERICAN CONCRETE INSTITUTE), AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), etc.

CONCRETE REINFORCING LAP SPLICE SCHEDULE table with columns: BAR SIZE, LAP. Rows for bar sizes 3 through 11.

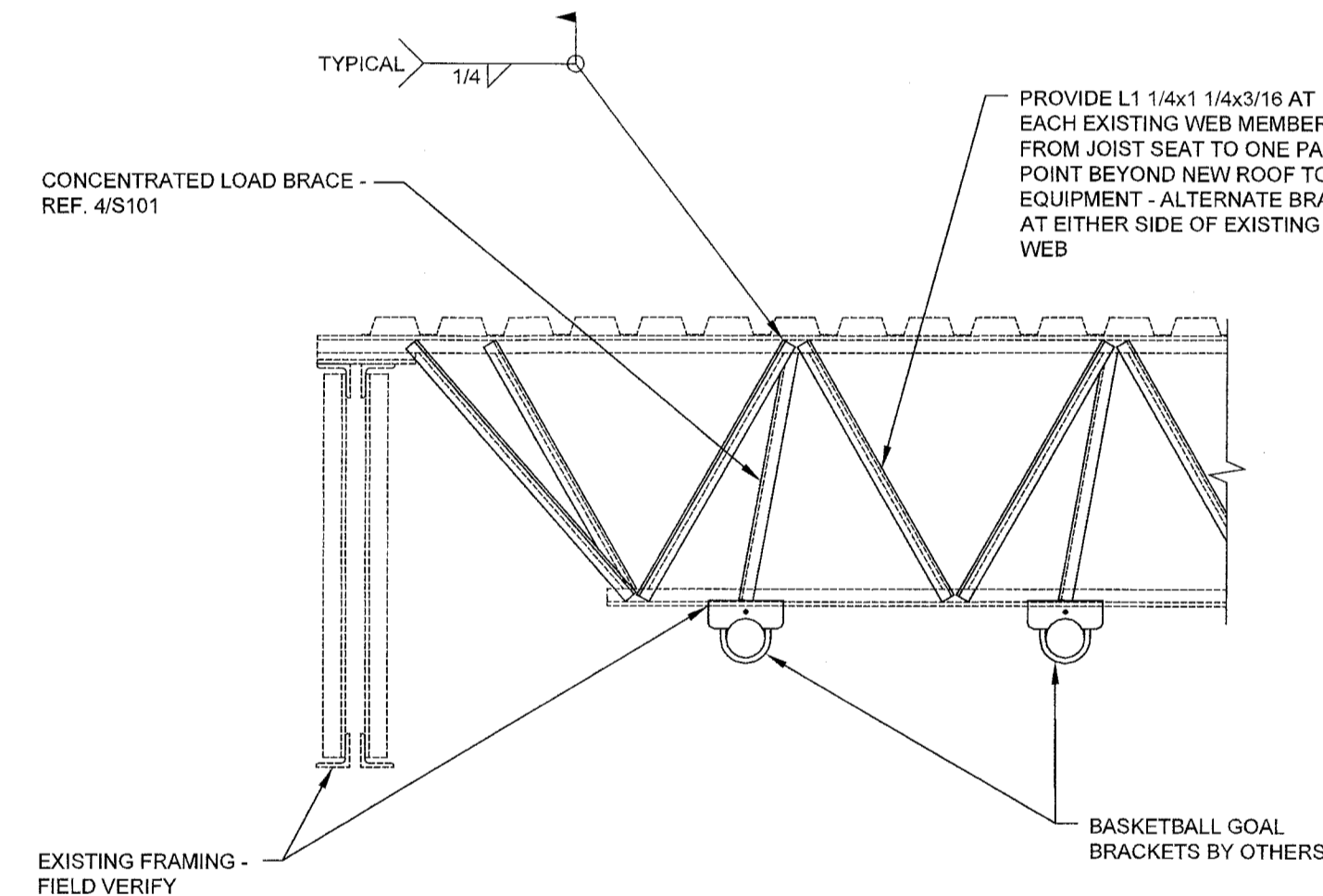
CONCRETE DOWEL SCHEDULE table with columns: MARK, SIZE, A, B, C. Rows for DWL A through G.

NOTES:

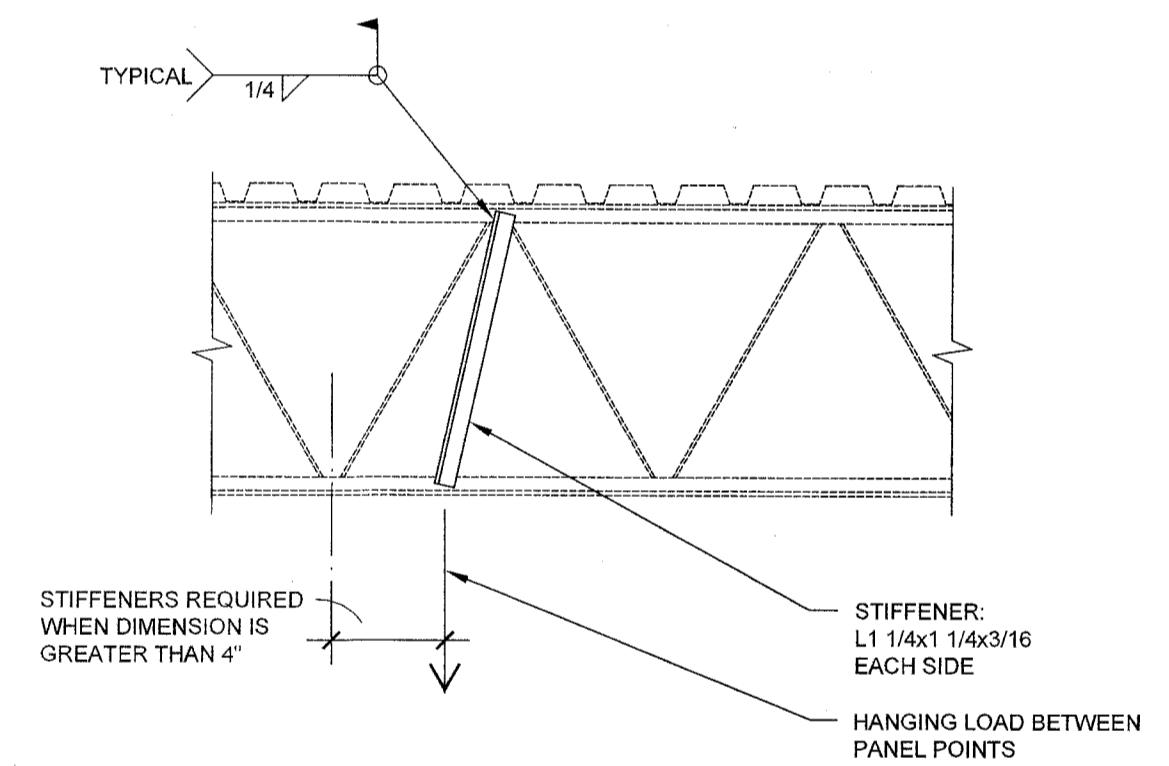
- 1. SCHEDULED DOWELS ARE MARKED "DWL" ON THE SECTIONS AND DETAILS.
2. DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT, UNLESS NOTED OTHERWISE.
3. STRAIGHT BARS SHALL BE PLACED WITH ONE HALF OF BAR LENGTH ON EACH SIDE OF COLD JOINT, UNLESS NOTED OTHERWISE.

01 SCHEDULE NO SCALE

02 SCHEDULE NO SCALE



03 TYPICAL DETAIL TO REINFORCE EXISTING JOISTS FOR ADDITIONAL RTU LOADINGS NO SCALE

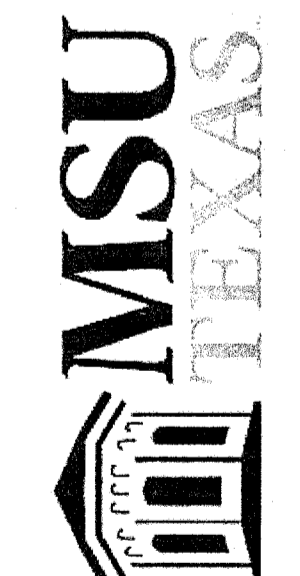


04 TYPICAL JOIST AT CONCENTRATED LOAD DETAIL NO SCALE



GLENDIA G. RAMSEY #15203
EXPIRES: 25 AUGUST 2019
DATE SIGNED: 4-25-19
HPA ARCHITECTS - PROGRAMMERS - PLANNERS

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3410 TAFT BOULEVARD WICHITA FALLS, TEXAS

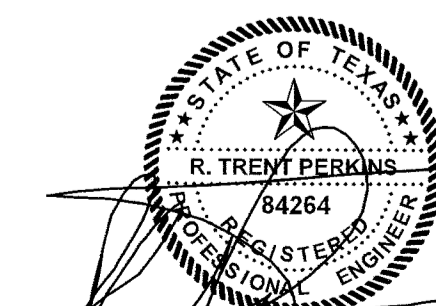


DRAWN BY: RTP

DATE: 1 APRIL 2019

REVISIONS

Table with 3 columns: NO., DESCRIPTION, DATE. Empty rows for revisions.



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Rockwall, Texas 75087
Phone 214-293-2503
RTP#: 19006

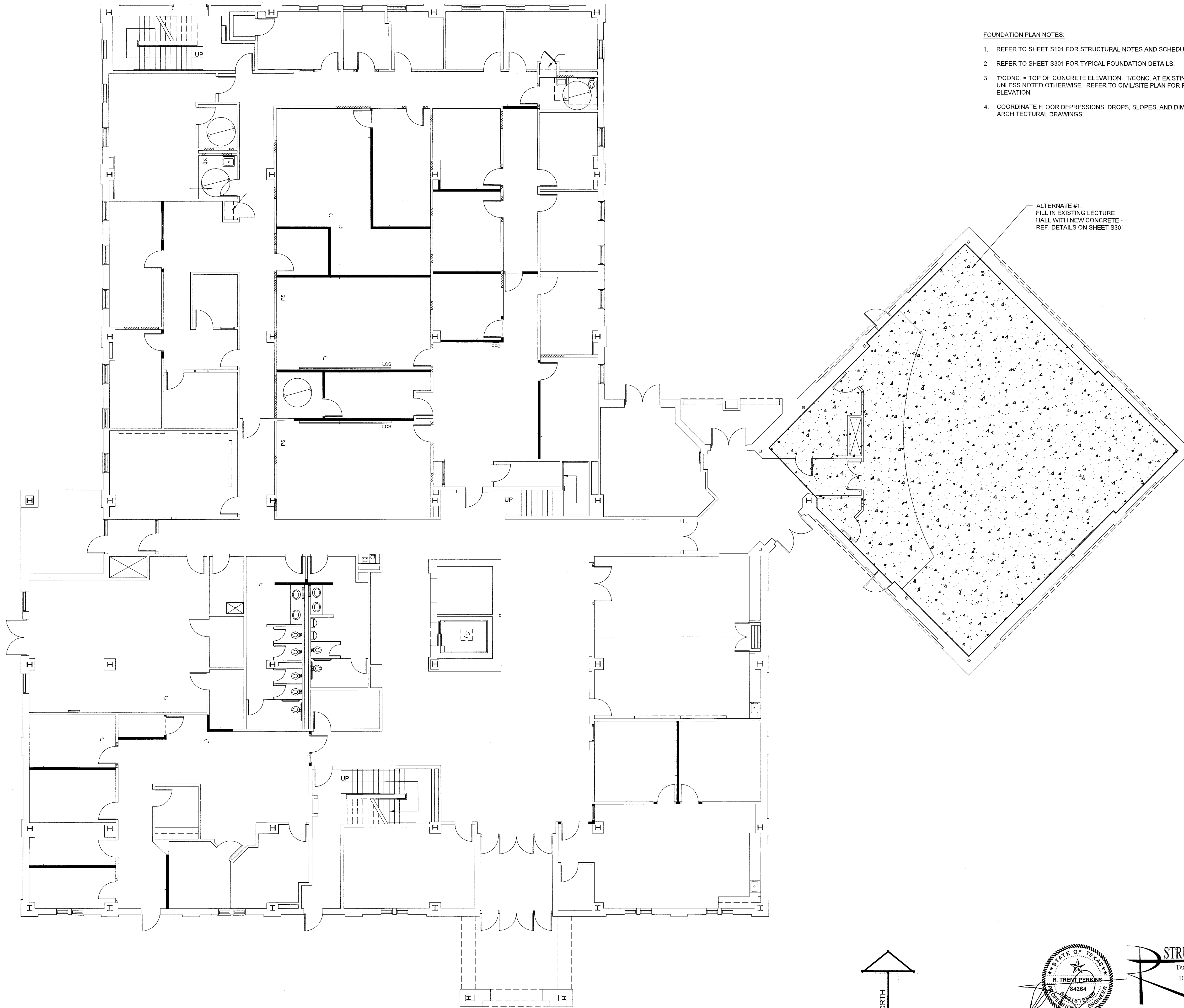
4/1/2019
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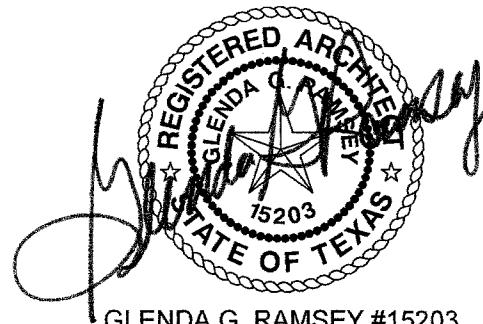
S101



FOUNDATION PLAN NOTES:

1. REFER TO SHEET S101 FOR STRUCTURAL NOTES AND SCHEDULES.
2. REFER TO SHEET S301 FOR TYPICAL FOUNDATION DETAILS.
3. T/CONC. = TOP OF CONCRETE ELEVATION. T/CONC. AT EXISTING = 100'-0". UNLESS NOTED OTHERWISE. REFER TO CIVIL/SITE PLAN FOR RELATIVE DATUM ELEVATION.
4. COORDINATE FLOOR DEPRESSIONS, DROPS, SLOPES, AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

ALTERNATE #1:
 FILL IN EXISTING LECTURE HALL WITH NEW CONCRETE - REF. DETAILS ON SHEET S301



GLEND A. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
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HPA
 ARCHITECTS PROGRAMMERS PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3596
 VOICE: 940.787.1421 FAX: 940.397.0273
 EMAIL: office@harpers.com WEB: www.harpers.com

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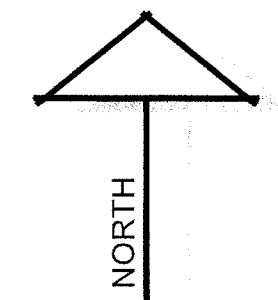
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NO.	DESCRIPTION	DATE

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FOUNDATION PLAN - LECTURE HALL - ALTERNATE #1

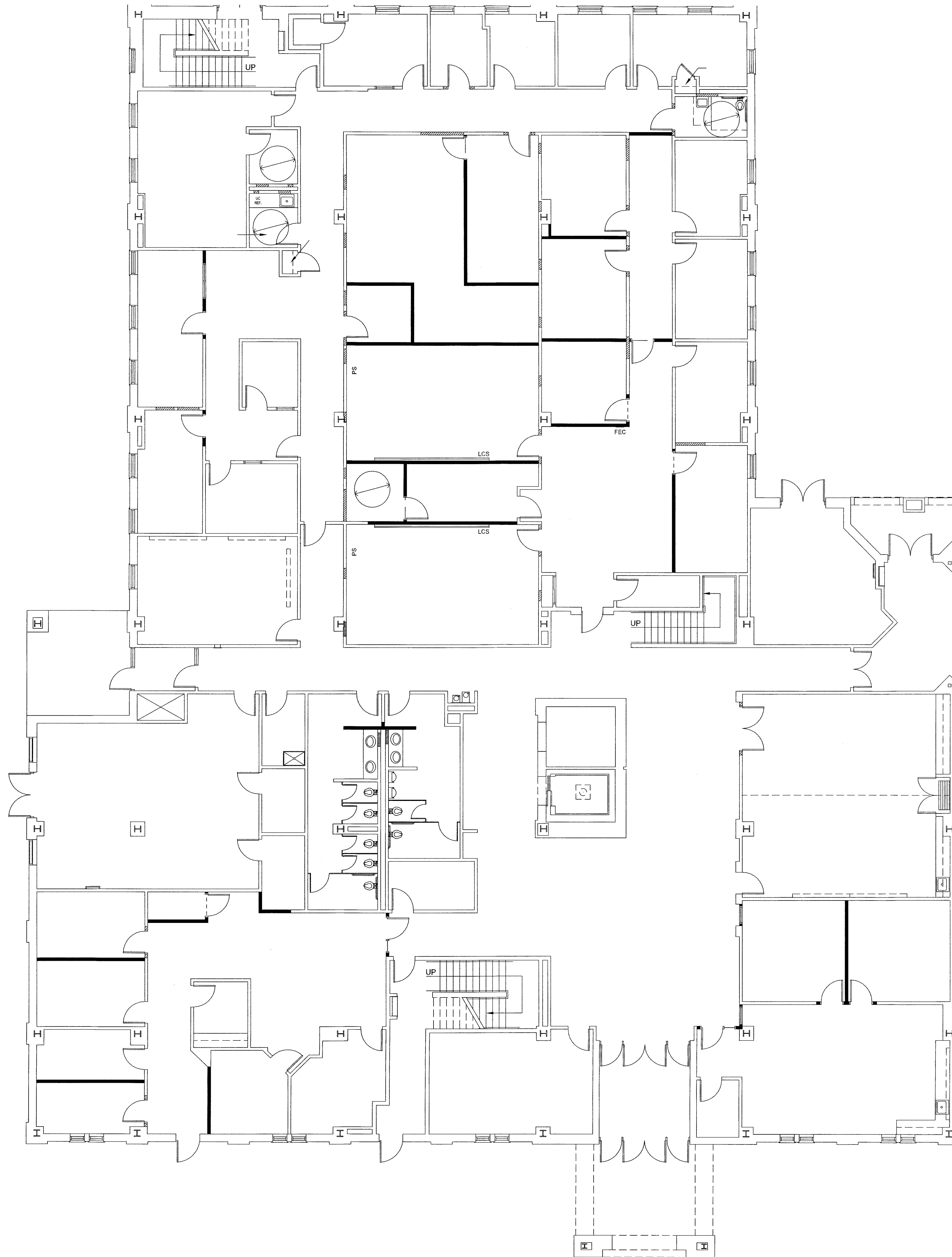
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 Rockwall, Texas 75087
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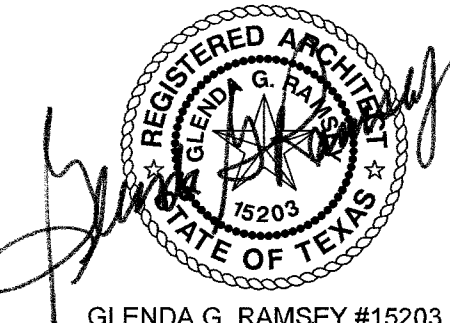
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S201



FOUNDATION PLAN NOTES:

1. REFER TO SHEET S101 FOR STRUCTURAL NOTES AND SCHEDULES.
2. REFER TO SHEET S301 FOR TYPICAL FOUNDATION DETAILS.
3. T/CONC. = TOP OF CONCRETE ELEVATION. T/CONC. AT EXISTING = 100'-0". UNLESS NOTED OTHERWISE. REFER TO CIVIL/SITE PLAN FOR RELATIVE DATUM ELEVATION.
4. COORDINATE FLOOR DEPRESSIONS, DROPS, SLOPES, AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.



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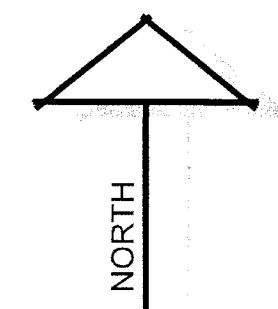
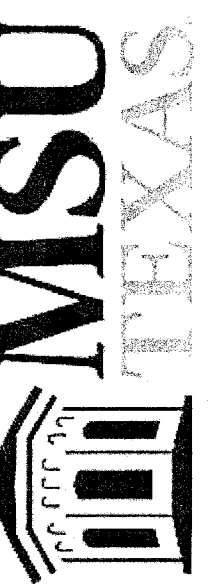


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4724 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302-3595
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EMAIL: office@harperepkins.com WEB: www.harperepkins.com

EXISTING 2x4 LOGS STAYED IN PLACE - FIELD VERIFY

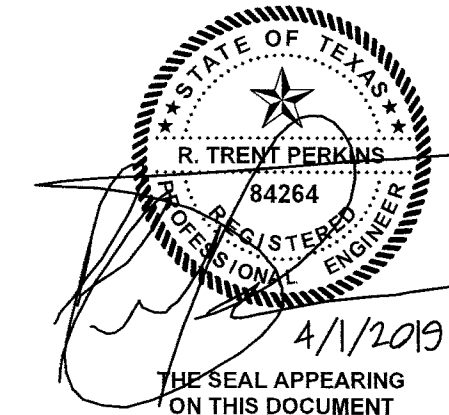
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NEW BASKETBALL GOAL -
REF. 3/S101

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WICHITA FALLS, TEXAS



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

ROOF FRAMING PLAN - LECTURE HALL - ALTERNATE #1



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Rockwall, Texas 75087
Phone 214-293-2503
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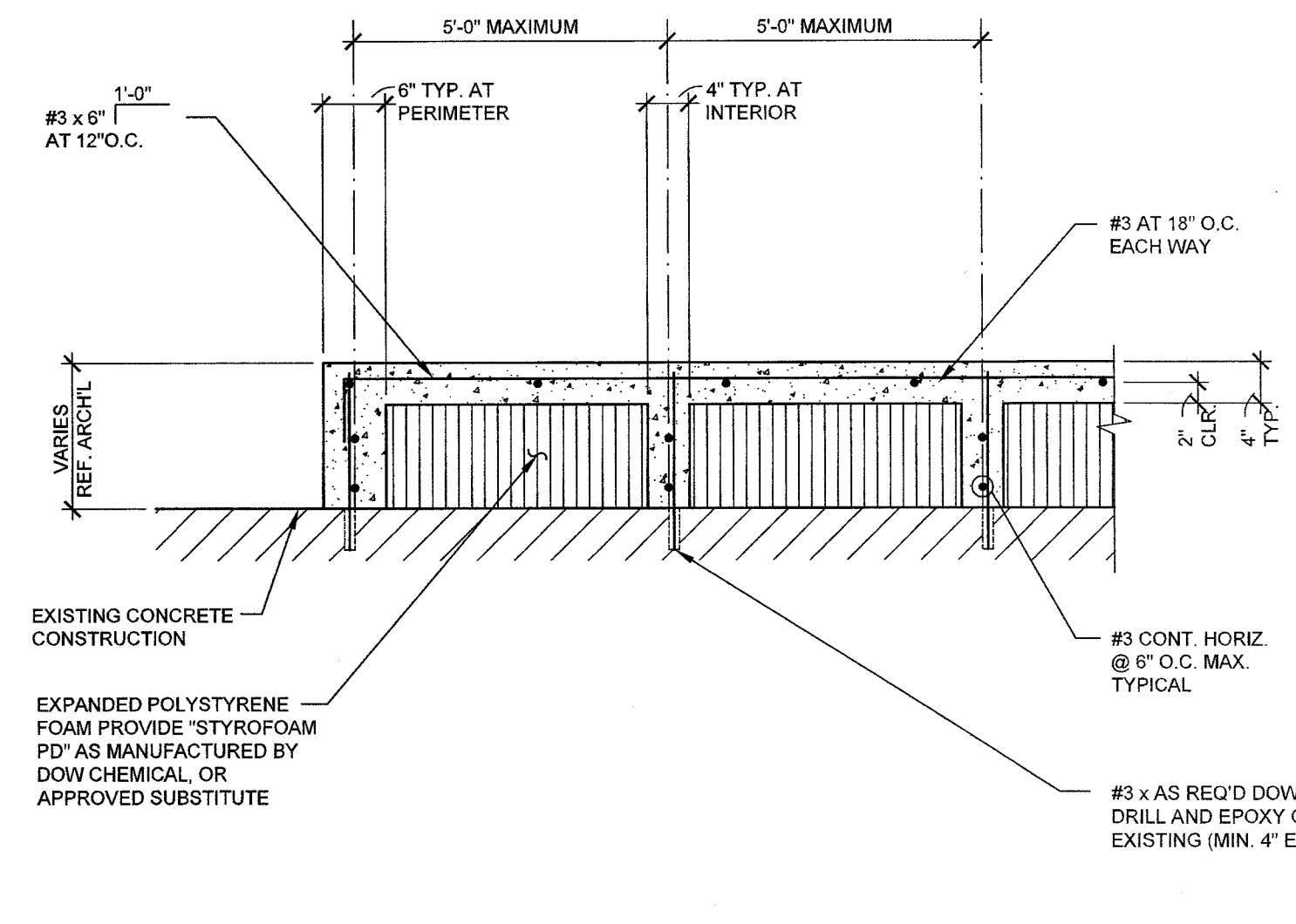
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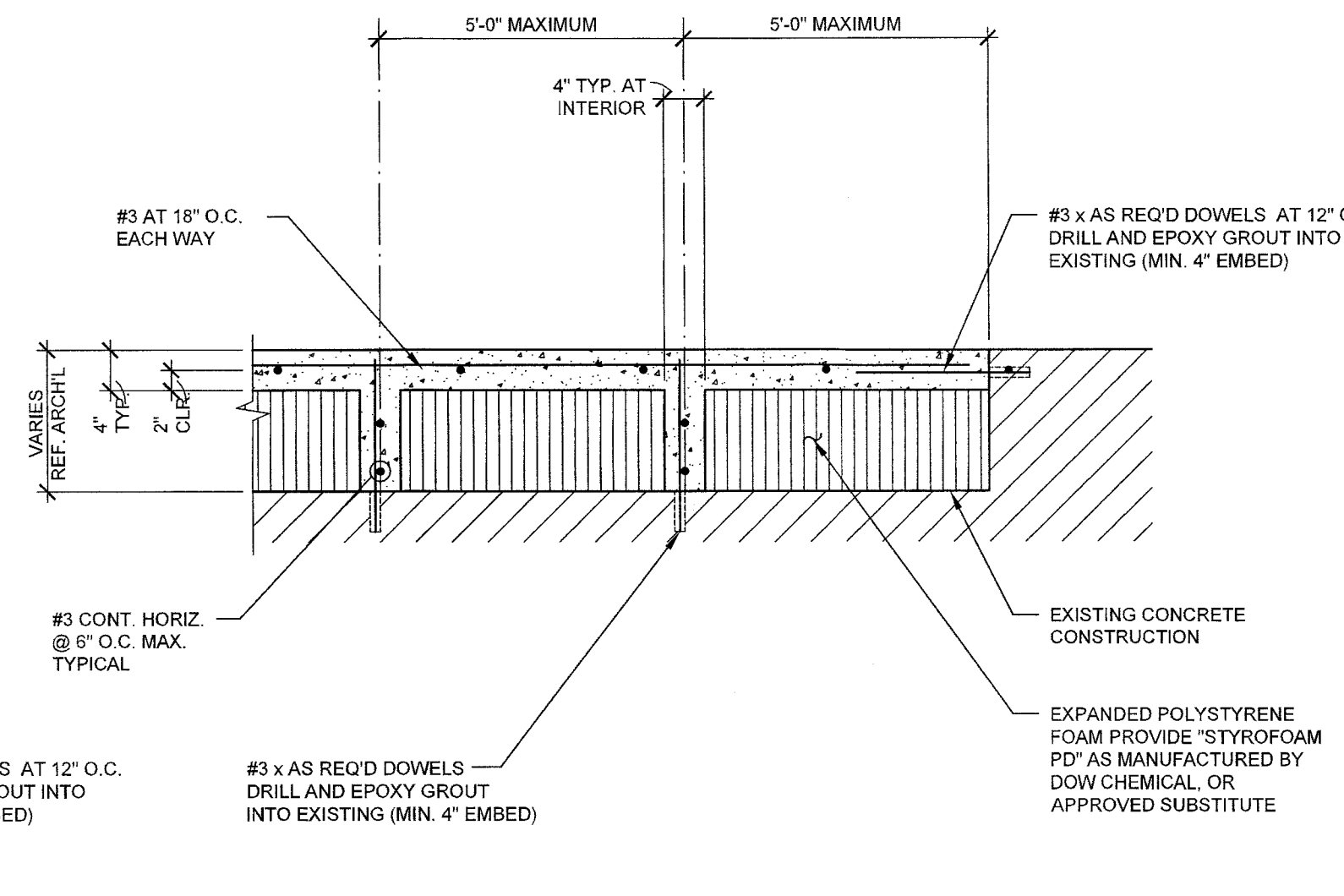
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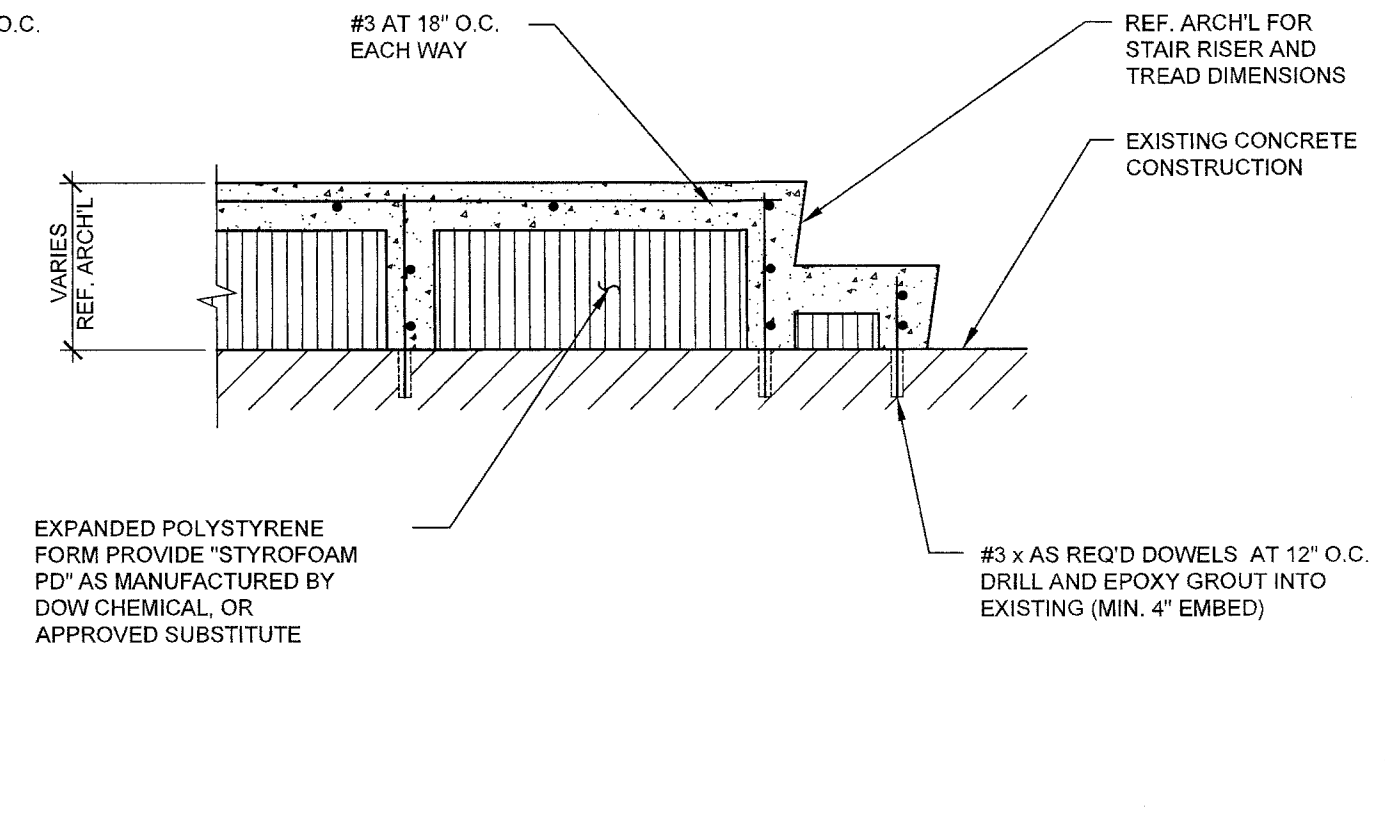
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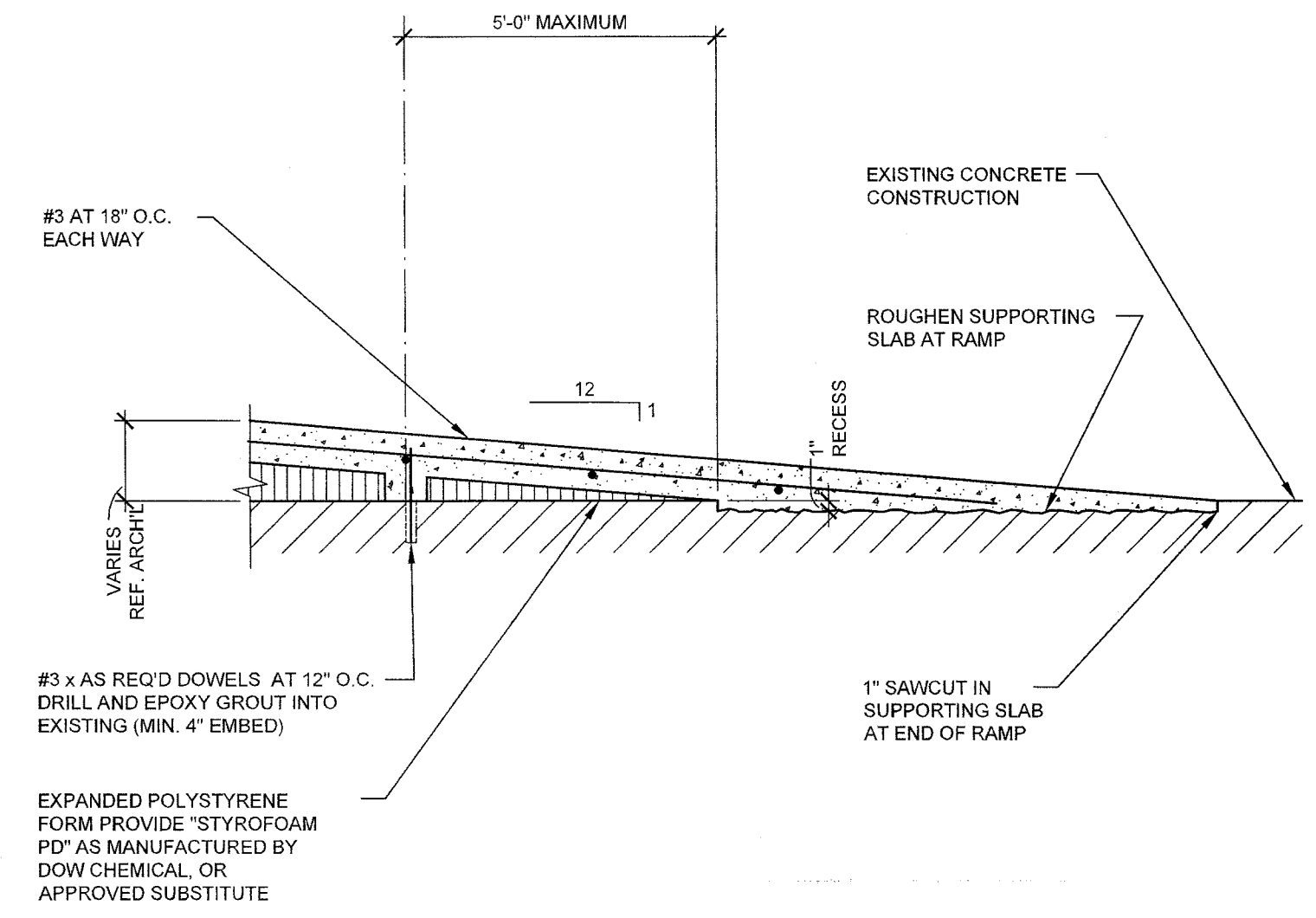
01 TYPICAL BUILT-UP SLAB DETAIL
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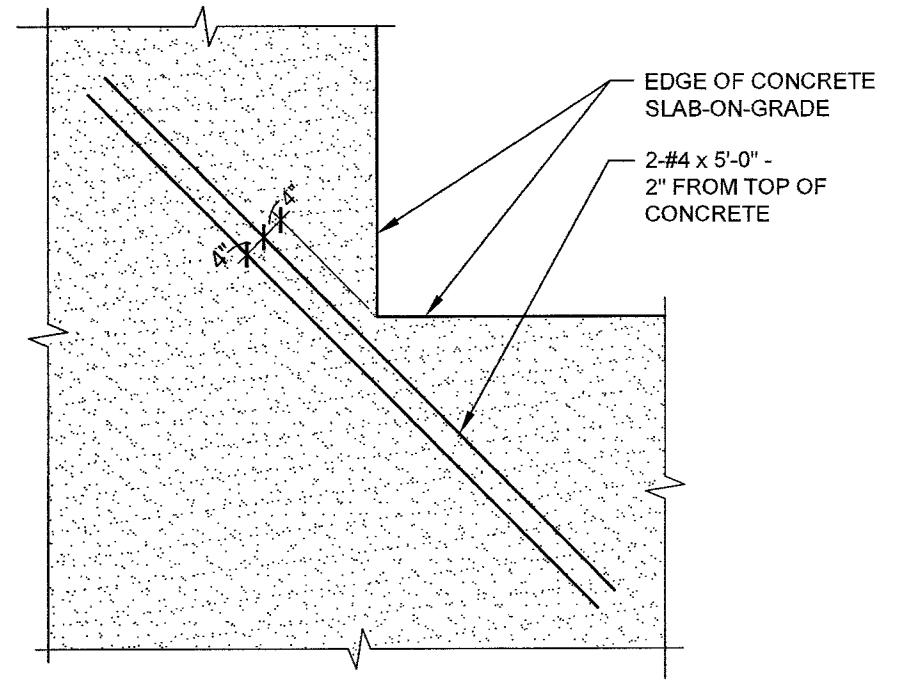
02 TYPICAL BUILT-UP SLAB DETAIL
 NO SCALE



03 TYPICAL BUILT-UP STAIR DETAIL
 NO SCALE

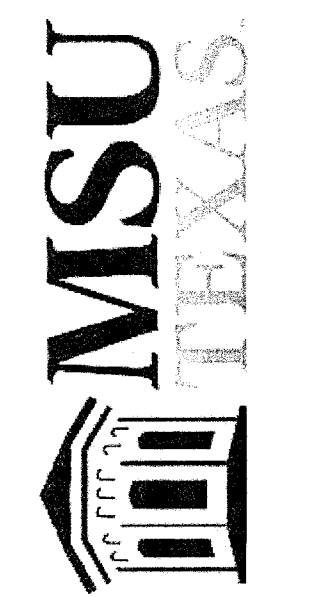


04 TYPICAL BUILT-UP RAMP DETAIL
 NO SCALE



05 TYPICAL RE-ENTRANT SLAB
 CORNER REINFORCING DETAIL
 NO SCALE

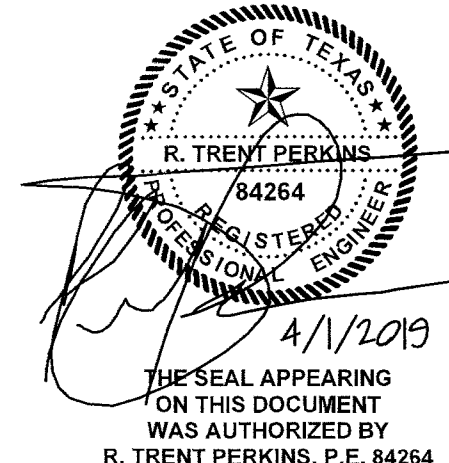
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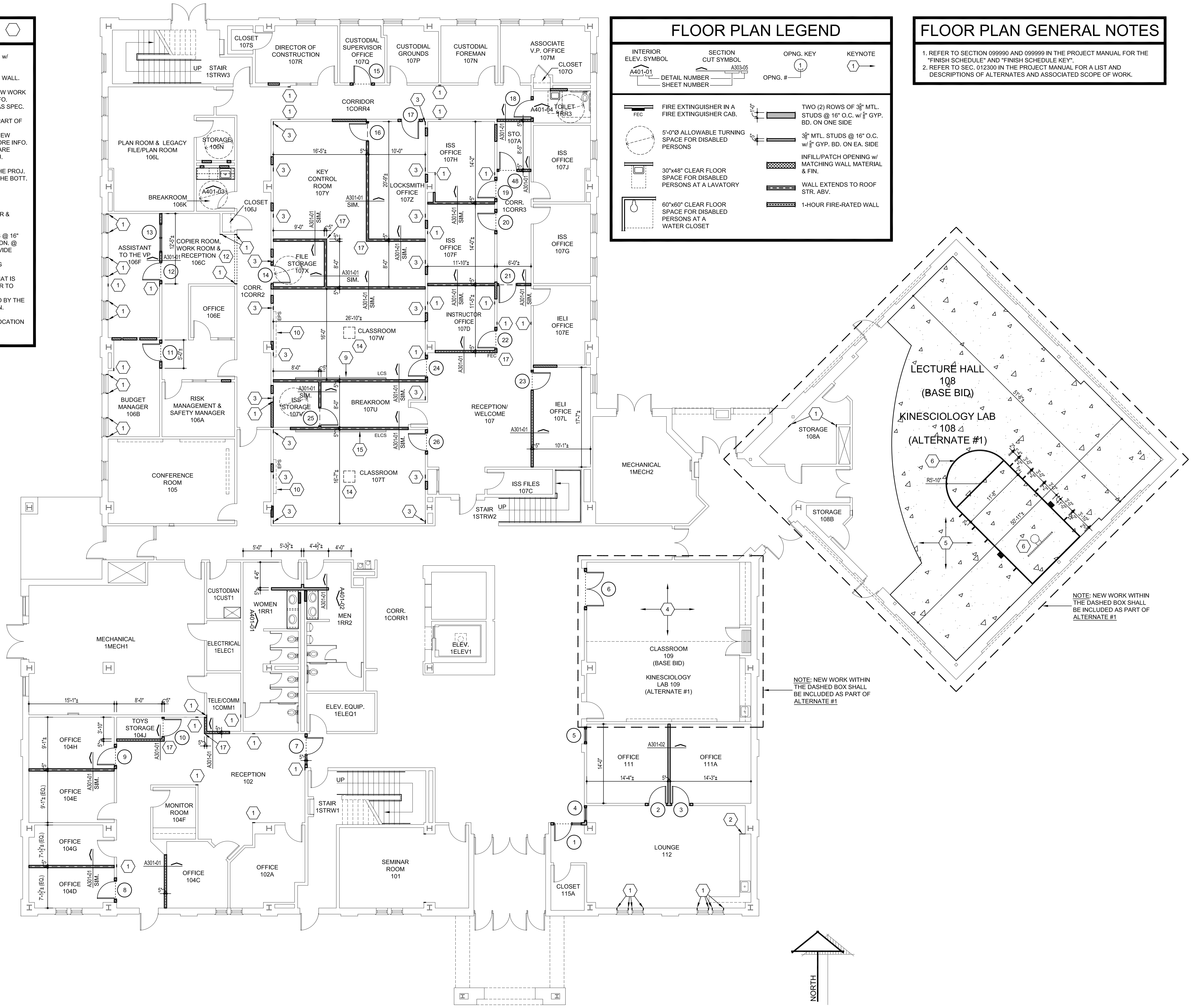
- ### FLOOR PLAN KEYNOTES
- PATCH EXIST. WALL AT LOCATION OF PREVIOUSLY REMOVED WALL. PATCH w/ MATCHING WALL MATERIALS & FIN.
 - PROVIDE NEW CAB. END - MATCH EXIST. CAB. FIN.
 - PATCH EXIST. WALL AT LOCATION OF PREVIOUSLY REMOVED LOW DIVIDER WALL. PATCH w/ MATCHING WALL MATERIALS & FIN.
 - ALTERNATE #1: SPACE BECOMES "KINESIOLOGY LAB STORAGE 109" w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. AND PROJ. MANUAL FOR MORE INFO.
 - ALTERNATE #1: SPACE BECOMES "KINESIOLOGY LAB 109" w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. & PROJ. MANUAL FOR MORE INFO.
 - NEW 2" THK. PAINTED COURT MARKINGS AND BASKETBALL GOAL (INC. AS PART OF ALTERNATE #1) - REF. TO THE PROJ. MANUAL FOR MORE INFO.
 - ALTERNATE #2: CLASSROOM & COMPUTER LAB SPACES ARE CREATED w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. AND PROJ. MANUAL FOR MORE INFO.
 - ALTERNATES #3A, #3B, & #3C: SCIENCE LAB & SCIENCE STORAGE SPACES ARE CREATED w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. AND PROJ. MANUAL FOR MORE INFO.
 - LOCATION OF A NEW LCS BOARD ("LCS") OR TACKBOARD ("TB") - REF. TO THE PROJ. MANUAL FOR THE "LCS"/"TB" SCHEDULE. MOUNT EA. UNIT AT 30" A.F.F. TO THE BOTT. OF THE BOARD.
 - LOCATION OF AN EXIST. PROJECTION SCREEN ("EPS") TO BE RELOCATED & INSTALLED BY THE GC. COORDINATE FINAL LOCATION AND HEIGHT w/ THE ARCHITECT & OWNER.
 - LOCATION OF A NEW PROJECTION SCREEN ("PS") PROVIDED BY THE OWNER & INSTALLED BY THE GC. COORDINATE FINAL LOCATION AND HEIGHT w/ THE ARCHITECT & OWNER.
 - LOCATION OF A NEW DRYWALL FURR-DN. COMPOSED OF 3 5/8" MTL. STUDS @ 16" O.C. w/ 5/8" GYP. BD. EACH SIDE - TAPE/BED & FIN. AS SCH. BOTT. OF FURR-DN. @ 7'-0" A.F.F. EXTEND STUDS UP TO & ATTACH TO THE EXIST. FLR. STR. - PROVIDE 3 5/8" MTL. STUD BRACING @ 48" O.C.E.W., STAGGERED.
 - EXIST. FLR. ELEC. RACEWAY TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
 - APPROX. LOCATION OF A NEW OR RELOCATED EXIST. CLG. PROJECTOR THAT IS INSTALLED BY THE GC. COORDINATE FINAL LOCATION w/ THE OWNER PRIOR TO INSTALLATION. ALSO REF. TO THE ELEC. PLANS FOR MORE INFO.
 - LOCATION OF AN EXIST. RELOCATED LCS BOARD ("ELCS") TO BE INSTALLED BY THE G.C. COORDINATE FINAL LOCATION w/ THE OWNER PRIOR TO INSTALLATION.
 - LOCATION OF AN EXIST. RELOCATED WALL MTD. TV MONITOR ("ETV") OR SMARTBOARD ("ESB") TO BE INSTALLED BY THE G.C. COORDINATE FINAL LOCATION w/ THE OWNER PRIOR TO INSTALLATION.
 - LOCATION OF A NEW CORNER GUARD.

- ### ALTERNATES
- REF. THE DRAWINGS AND SEC. 012300 OF THE PROJ. MANUAL FOR MORE INFORMATION AND DESCRIPTIONS ON THE ALTERNATES FOR THIS PROJECT. THE ALTERNATES ARE AS FOLLOWS:
- ALTERNATE #1:** ON THE FIRST FLOOR, THE EXISTING "LECTURE HALL 108" WILL BE CONVERTED TO "KINESIOLOGY LAB 108; THE EXISTING "CLASSROOM 109" WILL BE CONVERTED TO "KINESIOLOGY EQUIPMENT STORAGE 109".
 - ALTERNATE #2:** ON THE SECOND FLOOR, EXISTING CLASSROOMS AND BREAK ROOM WILL BE CONVERTED TO LARGER "CLASSROOM 204" AND "COMPUTER LAB/CLASSROOM 209".
 - ALTERNATE #3A:** ON THE THIRD FLOOR, EXISTING OFFICE SPACES WILL BE CONVERTED INTO "SCIENCE LAB 308A" AND "SCIENCE WORKROOM/STORAGE 308D". THIS ALTERNATE WILL CREATE THE SPACES AND PROVIDE FINISHES AND MECH./ELEC./PLUMBING "ROUGH IN" ONLY. **ALTERNATE #3B:** PROVIDE SPEC. SCIENCE EQUIPMENT (REF. SEC. 123480 OF THE PROJ. MANUAL). REF. TO THE DWGS. FOR MORE INFO. **ALTERNATE #3C:** PROVIDE THE MECH./ELEC./PLUMBING FINISH OUT OF THE SPACES AND FOR THE SCIENCE EQUIPMENT. THE SCOPE OF WORK WITH THIS ALTERNATE WILL OCCUR IN CONJUNCTION WITH THE ACCEPTANCE OF **ALTERNATE #3B**. REF. TO THE DWGS. FOR MORE INFO.
 - ALTERNATE #4:** PROVIDE NEW I.T. INFRASTRUCTURE UPGRADES AS INDICATED IN THE ELEC. DWGS.

FLOOR PLAN LEGEND

INTERIOR ELEV. SYMBOL	SECTION CUT SYMBOL	OPNG. KEY	KEYNOTE
A401-01	A303-05	1	1
DETAIL NUMBER	SHEET NUMBER	OPNG. #	
FEC			TWO (2) ROWS OF 3/8" MTL. STUDS @ 16" O.C. w/ 5/8" GYP. BD. ON ONE SIDE
			3/8" MTL. STUDS @ 16" O.C. w/ 5/8" GYP. BD. ON EA. SIDE
			INFILL/PATCH OPENINGS w/ MATCHING WALL MATERIAL & FIN.
			WALL EXTENDS TO ROOF STR. ABV.
			1-HOUR FIRE-RATED WALL
			5'-0" ALLOWABLE TURNING SPACE FOR DISABLED PERSONS
			30"x48" CLEAR FLOOR SPACE FOR DISABLED PERSONS AT A LAVATORY
			60"x60" CLEAR FLOOR SPACE FOR DISABLED PERSONS AT A WATER CLOSET

- ### FLOOR PLAN GENERAL NOTES
- REFER TO SECTION 099990 AND 099999 IN THE PROJECT MANUAL FOR THE "FINISH SCHEDULE" AND "FINISH SCHEDULE KEY".
 - REFER TO SEC. 012300 IN THE PROJECT MANUAL FOR A LIST AND DESCRIPTIONS OF ALTERNATES AND ASSOCIATED SCOPE OF WORK.



RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 34110 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO
 DATE: 1 APRIL 2019

REVISIONS		
NO.	DESCRIPTION	DATE

18833.00

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A101



FIRST FLOOR PLAN - NEW

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

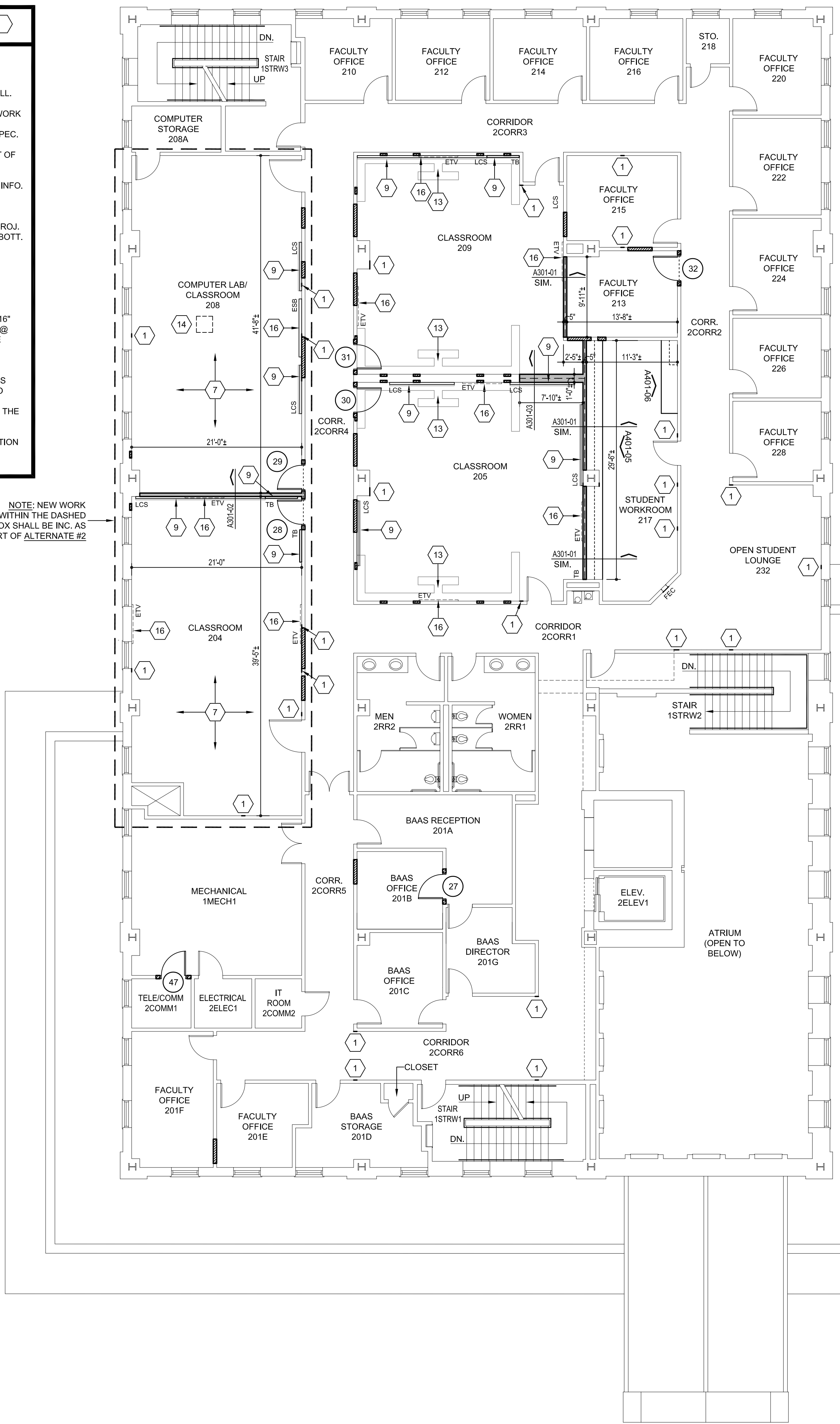
FLOOR PLAN KEYNOTES

- PATCH EXIST. WALL AT LOCATION OF PREVIOUSLY REMOVED WALL. PATCH w/ MATCHING WALL MATERIALS & FIN.
- PROVIDE NEW CAB. END - MATCH EXIST. CAB. FIN.
- PATCH EXIST. WALL AT LOCATION OF PREVIOUSLY REMOVED LOW DIVIDER WALL. PATCH w/ MATCHING WALL MATERIALS & FIN.
- ALTERNATE #1: SPACE BECOMES "KINESIOLOGY LAB STORAGE 109" w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. AND PROJ. MANUAL FOR MORE INFO.
- ALTERNATE #1: SPACE BECOMES "KINESIOLOGY LAB 108" w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. & PROJ. MANUAL FOR MORE INFO.
- NEW 2" THK. PAINTED COURT MARKINGS AND BASKETBALL GOAL (INC. AS PART OF ALTERNATE #1) - REF. TO THE PROJ. MANUAL FOR MORE INFO.
- ALTERNATE #2: CLASSROOM & COMPUTER LAB SPACES ARE CREATED w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. AND PROJ. MANUAL FOR MORE INFO.
- ALTERNATES #3A, #3B, & #3C: SCIENCE LAB & SCIENCE STORAGE SPACES ARE CREATED w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. AND PROJ. MANUAL FOR MORE INFO.
- LOCATION OF A NEW LCS BOARD ("LCS") OR TACKBOARD ("TB") - REF. TO THE PROJ. MANUAL FOR THE "LCS"/"TB" SCHEDULE. MOUNT EA. UNIT AT 30" A.F.F. TO THE BOTT. OF THE BOARD.
- LOCATION OF AN EXIST. PROJECTION SCREEN ("EPS") TO BE RELOCATED & INSTALLED BY THE GC. COORDINATE FINAL LOCATION AND HEIGHT w/ THE ARCHITECT & OWNER.
- LOCATION OF A NEW PROJECTION SCREEN ("PS") PROVIDED BY THE OWNER & INSTALLED BY THE GC. COORDINATE FINAL LOCATION AND HEIGHT w/ THE ARCHITECT & OWNER.
- LOCATION OF A NEW DRYWALL FURR-DN. COMPOSED OF 3 5/8" MTL. STUDS @ 16" O.C. w/ 5/8" GYP. BD. EACH SIDE - TAPE/BD & FIN. AS SCH. BOTT. OF FURR-DN. @ 7'-0" A.F.F. EXTEND STUDS UP TO & ATTACH TO THE EXIST. FLR. STR. - PROVIDE 3 5/8" MTL. STUD BRACING @ 48" O.C.E.W., STAGGERED.
- EXIST. FLR. ELEC. RACEWAY TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- APPROX. LOCATION OF A NEW OR RELOCATED EXIST. CLG. PROJECTOR THAT IS INSTALLED BY THE GC. COORDINATE FINAL LOCATION w/ THE OWNER PRIOR TO INSTALLATION. ALSO REF. TO THE ELEC. PLANS FOR MORE INFO.
- LOCATION OF AN EXIST. RELOCATED LCS BOARD ("ELCS") TO BE INSTALLED BY THE G.C. COORDINATE FINAL LOCATION w/ THE OWNER PRIOR TO INSTALLATION.
- LOCATION OF AN EXIST. RELOCATED WALL MTD. TV MONITOR ("ETV") OR SMARTBOARD ("ESB") TO BE INSTALLED BY THE G.C. COORDINATE FINAL LOCATION w/ THE OWNER PRIOR TO INSTALLATION.
- LOCATION OF A NEW CORNER GUARD.

ALTERNATES

- REF. THE DRAWINGS AND SEC. 012300 OF THE PROJ. MANUAL FOR MORE INFORMATION AND DESCRIPTIONS OF THE ALTERNATES FOR THIS PROJECT. THE ALTERNATES ARE AS FOLLOWS:
- ALTERNATE #1:** ON THE FIRST FLOOR, THE EXISTING "LECTURE HALL 108" WILL BE CONVERTED TO "KINESIOLOGY LAB 108"; THE EXISTING "CLASSROOM 109" WILL BE CONVERTED TO "KINESIOLOGY EQUIPMENT STORAGE 109".
 - ALTERNATE #2:** ON THE SECOND FLOOR, EXISTING CLASSROOMS AND BREAK ROOM WILL BE CONVERTED TO LARGER "CLASSROOM 204" AND "COMPUTER LAB/CLASSROOM 208".
 - ALTERNATE #3A:** ON THE THIRD FLOOR, EXISTING OFFICE SPACES WILL BE CONVERTED INTO "SCIENCE LAB 308A" AND "SCIENCE WORKROOM/STORAGE 308D". THIS ALTERNATE WILL CREATE THE SPACES AND PROVIDE FINISHES AND MECH./ELEC./PLUMBING "ROUGH IN" ONLY; **ALTERNATE #3B:** PROVIDE SPEC. SCIENCE EQUIPMENT (REF. SEC. 123480 OF THE PROJ. MANUAL). REF. TO THE DWGS. FOR MORE INFO.; **ALTERNATE #3C:** PROVIDE THE MECH./ELEC./PLUMBING FINISH OUT OF THE SPACES AND FOR THE SCIENCE EQUIPMENT. THE SCOPE OF WORK WITH THIS ALTERNATE WILL OCCUR IN CONJUNCTION WITH THE ACCEPTANCE OF **ALTERNATE #3B**. REF. TO THE DWGS. FOR MORE INFO.
 - ALTERNATE #4:** PROVIDE NEW I.T. INFRASTRUCTURE UPGRADES AS INDICATED IN THE ELEC. DWGS.

NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INC. AS PART OF ALTERNATE #2



FLOOR PLAN LEGEND

INTERIOR ELEV. SYMBOL	SECTION CUT SYMBOL	OPNG. KEY	KEYNOTE
		OPNG. #	

FLOOR PLAN GENERAL NOTES

- REFER TO SECTION 099990 AND 099999 IN THE PROJECT MANUAL FOR THE "FINISH SCHEDULE" AND "FINISH SCHEDULE KEY".
- REFER TO SEC. 012300 IN THE PROJECT MANUAL FOR A LIST AND DESCRIPTIONS OF ALTERNATES AND ASSOCIATED SCOPE OF WORK.



GLEND A. G. RAMSEY #15203
EXPIRES: 25 AUGUST 2019
DATE SIGNED: 25 APRIL 2019

HPA
ARCHITECTS PROGRAMMERS PLANNERS
HARPER PERKINS ARCHITECTS, INC.
4724 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302-3599
VOICE: 940.767.1121 FAX: 940.767.0229
EMAIL: office@harperperkins.com WEB: www.harperperkins.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
34110 TAFT BOULEVARD
WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO
DATE: 1 APRIL 2019

REVISIONS		
NO.	DESCRIPTION	DATE

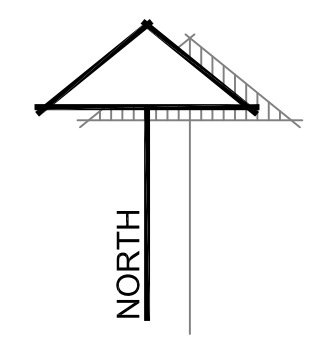
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A102

SECOND FLOOR PLAN - NEW

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

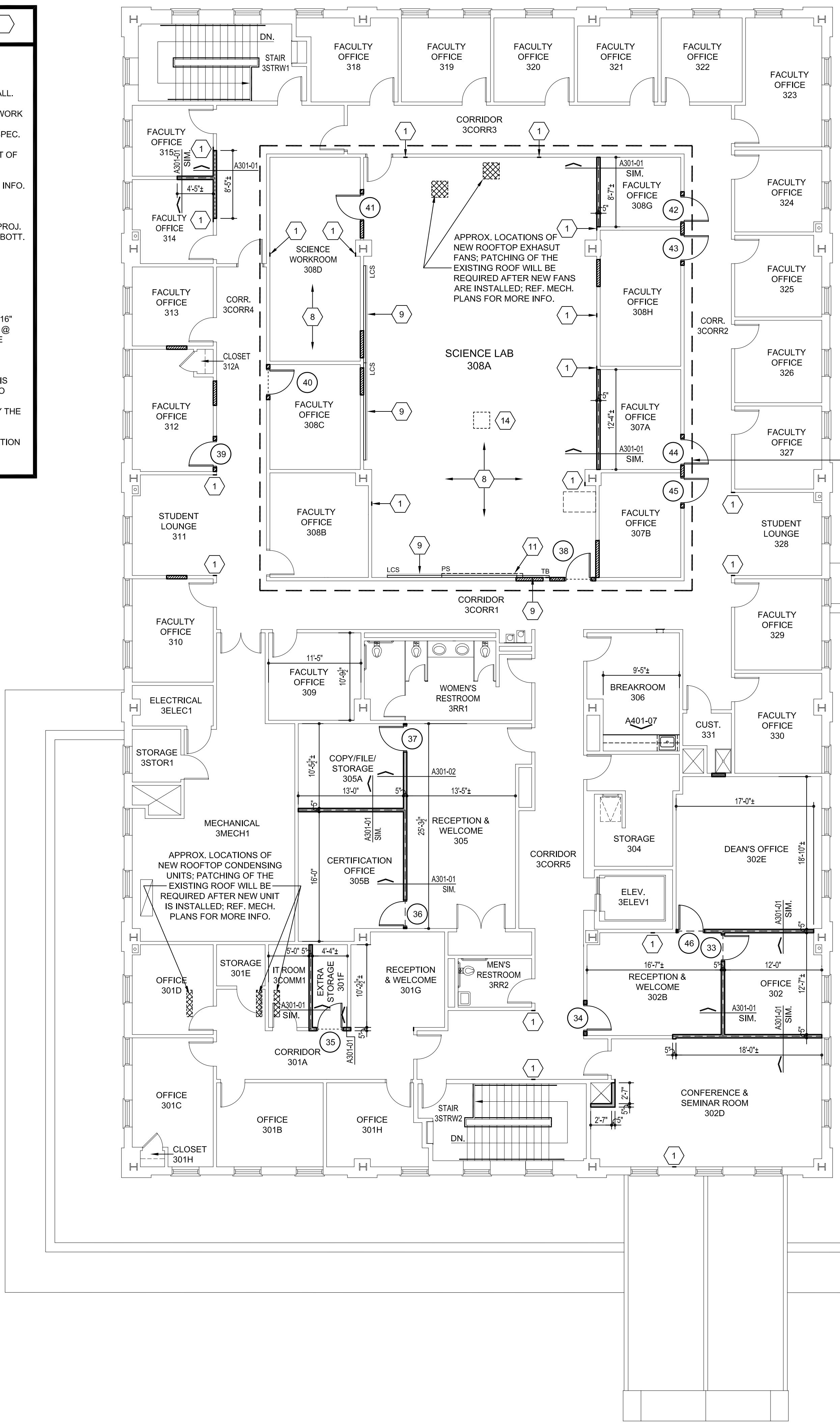


FLOOR PLAN KEYNOTES

- PATCH EXIST. WALL AT LOCATION OF PREVIOUSLY REMOVED WALL. PATCH w/ MATCHING WALL MATERIALS & FIN.
- PROVIDE NEW CAB. END -MATCH EXIST. CAB. FIN.
- PATCH EXIST. WALL AT LOCATION OF PREVIOUSLY REMOVED LOW DIVIDER WALL. PATCH w/ MATCHING WALL MATERIALS & FIN.
- ALTERNATE #1: SPACE BECOMES "KINESIOLOGY LAB STORAGE 109" w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. AND PROJ. MANUAL FOR MORE INFO.
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- NEW 2" THK. PAINTED COURT MARKINGS AND BASKETBALL GOAL (INC. AS PART OF ALTERNATE #1) - REF. TO THE PROJ. MANUAL FOR MORE INFO.
- ALTERNATE #2: CLASSROOM & COMPUTER LAB SPACES ARE CREATED w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. AND PROJ. MANUAL FOR MORE INFO.
- ALTERNATES #2A, #2B, & #2C: SCIENCE LAB & SCIENCE STORAGE SPACES ARE CREATED w/ NEW WORK AS SPEC. AND SCH. REF. TO THE DWGS. AND PROJ. MANUAL FOR MORE INFO.
- LOCATION OF A NEW LCS BOARD ("LCS") OR TACKBOARD ("TB") - REF. TO THE PROJ. MANUAL FOR THE "LCS"/"TB" SCHEDULE. MOUNT EA. UNIT AT 30" A.F.F. TO THE BOTT. OF THE BOARD.
- LOCATION OF AN EXIST. PROJECTION SCREEN ("EPS") TO BE RELOCATED & INSTALLED BY THE GC. COORDINATE FINAL LOCATION AND HEIGHT w/ THE ARCHITECT & OWNER.
- LOCATION OF A NEW PROJECTION SCREEN ("PS") PROVIDED BY THE OWNER & INSTALLED BY THE GC. COORDINATE FINAL LOCATION AND HEIGHT w/ THE ARCHITECT & OWNER.
- LOCATION OF A NEW DRYWALL FURR-DN. COMPOSED OF 3 5/8" MTL. STUDS @ 16" O.C. w/ 5/8" GYP. BD. EACH SIDE - TAP/BED & FIN. AS SCH. BOTT. OF FURR-DN. @ 7'-0" A.F.F. EXTEND STUDS UP TO & ATTACH TO THE EXIST. FLR. STR. - PROVIDE 3 5/8" MTL. STUD BRACING @ 48" O.C.E.W. STAGGERED.
- EXIST. FLR. ELEC. RACEWAY TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
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- LOCATION OF A NEW CORNER GUARD.

ALTERNATES

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 - ALTERNATE #2:** ON THE SECOND FLOOR, EXISTING CLASSROOMS AND BREAK ROOM WILL BE CONVERTED TO LARGER "CLASSROOM 204" AND "COMPUTER LAB/CLASSROOM 206".
 - ALTERNATE #3A:** ON THE THIRD FLOOR, EXISTING OFFICE SPACES WILL BE CONVERTED INTO "SCIENCE LAB 308A" AND "SCIENCE WORKROOM/STORAGE 308D". THIS ALTERNATE WILL CREATE THE SPACES AND PROVIDE FINISHES AND MECH./ELEC./PLUMBING "ROUGH IN" ONLY; **ALTERNATE #3B:** PROVIDE SPEC. SCIENCE EQUIPMENT (REF. SEC. 123480 OF THE PROJ. MANUAL). REF. TO THE DWGS. FOR MORE INFO; **ALTERNATE #3C:** PROVIDE THE MECH./ELEC./PLUMBING FINISH OUT OF THE SPACES AND FOR THE SCIENCE EQUIPMENT. THE SCOPE OF WORK WITH THIS ALTERNATE WILL OCCUR IN CONJUNCTION WITH THE ACCEPTANCE OF **ALTERNATE #3B**. REF. TO THE DWGS. FOR MORE INFO.
 - ALTERNATE #4:** PROVIDE NEW I.T. INFRASTRUCTURE UPGRADES AS INDICATED IN THE ELEC. DWGS.



FLOOR PLAN LEGEND

INTERIOR ELEV. SYMBOL	SECTION CUT SYMBOL	OPNG. KEY	KEYNOTE
A401-01 DETAIL NUMBER SHEET NUMBER	A303-05 SECTION CUT SYMBOL	OPNG. # 1	KEYNOTE 1
FEC FIRE EXTINGUISHER IN A FIRE EXTINGUISHER CAB.	5'-0" ALLOWABLE TURNING SPACE FOR DISABLED PERSONS	30"x48" CLEAR FLOOR SPACE FOR DISABLED PERSONS AT A LAVATORY	60"x60" CLEAR FLOOR SPACE FOR DISABLED PERSONS AT A WATER CLOSET
TWO (2) ROWS OF 3/8" MTL. STUDS @ 16" O.C. w/ 5/8" GYP. BD. ON ONE SIDE	3/8" MTL. STUDS @ 16" O.C. w/ 5/8" GYP. BD. ON EA. SIDE	INFILL/PATCH OPENING w/ MATCHING WALL MATERIAL & FIN.	WALL EXTENDS TO ROOF STR. ABV.
			1-HOUR FIRE-RATED WALL

NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INCLUDED AS PART OF ALTERNATE #3A OR #3B

FLOOR PLAN GENERAL NOTES

- REFER TO SECTION 099990 AND 099999 IN THE PROJECT MANUAL FOR THE "FINISH SCHEDULE" AND "FINISH SCHEDULE KEY".
- REFER TO SEC. 012300 IN THE PROJECT MANUAL FOR A LIST AND DESCRIPTIONS OF ALTERNATES AND ASSOCIATED SCOPE OF WORK.



GLENDIA G. RAMSEY #15203
EXPIRES: 25 AUGUST 2019
DATE SIGNED: 25 APRIL 2019

HPA
ARCHITECTS PROGRAMMERS PLANNERS
HARPER PERKINS ARCHITECTS, INC.
4724 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302-3599
VOICE: 817.767.7421 FAX: 817.767.0222
E-MAIL: office@harperperkins.com WEB: www.harperperkins.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
WICHITA FALLS, TEXAS
34110 TAFT BOULEVARD



DRAWN BY: SAM K. KENSHALO
DATE: 1 APRIL 2019

REVISIONS		
NO.	DESCRIPTION	DATE

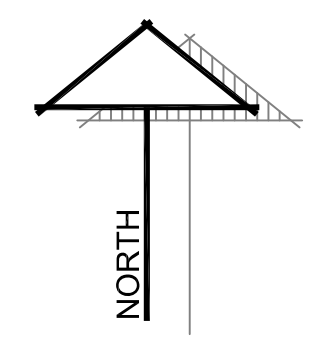
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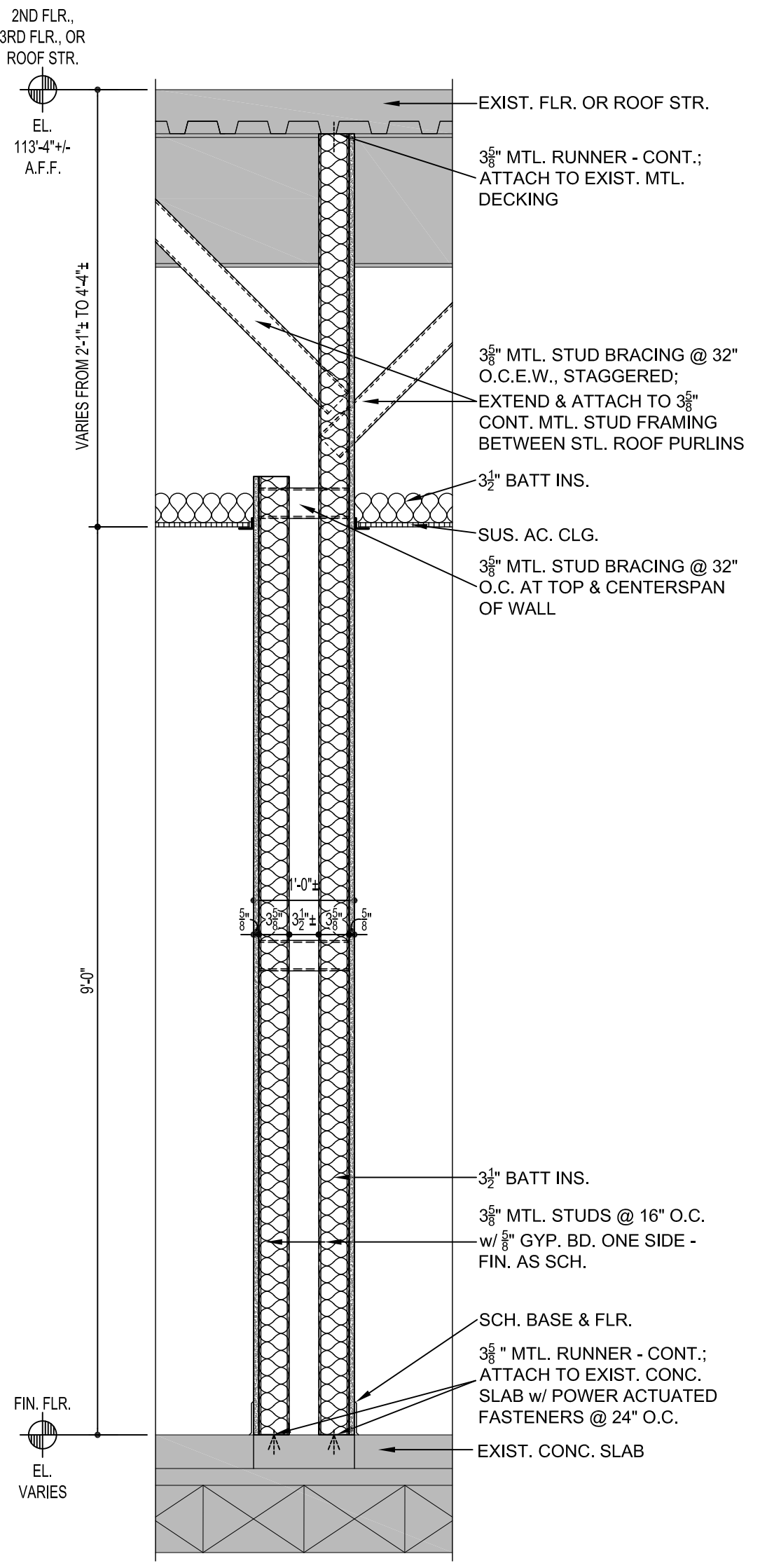
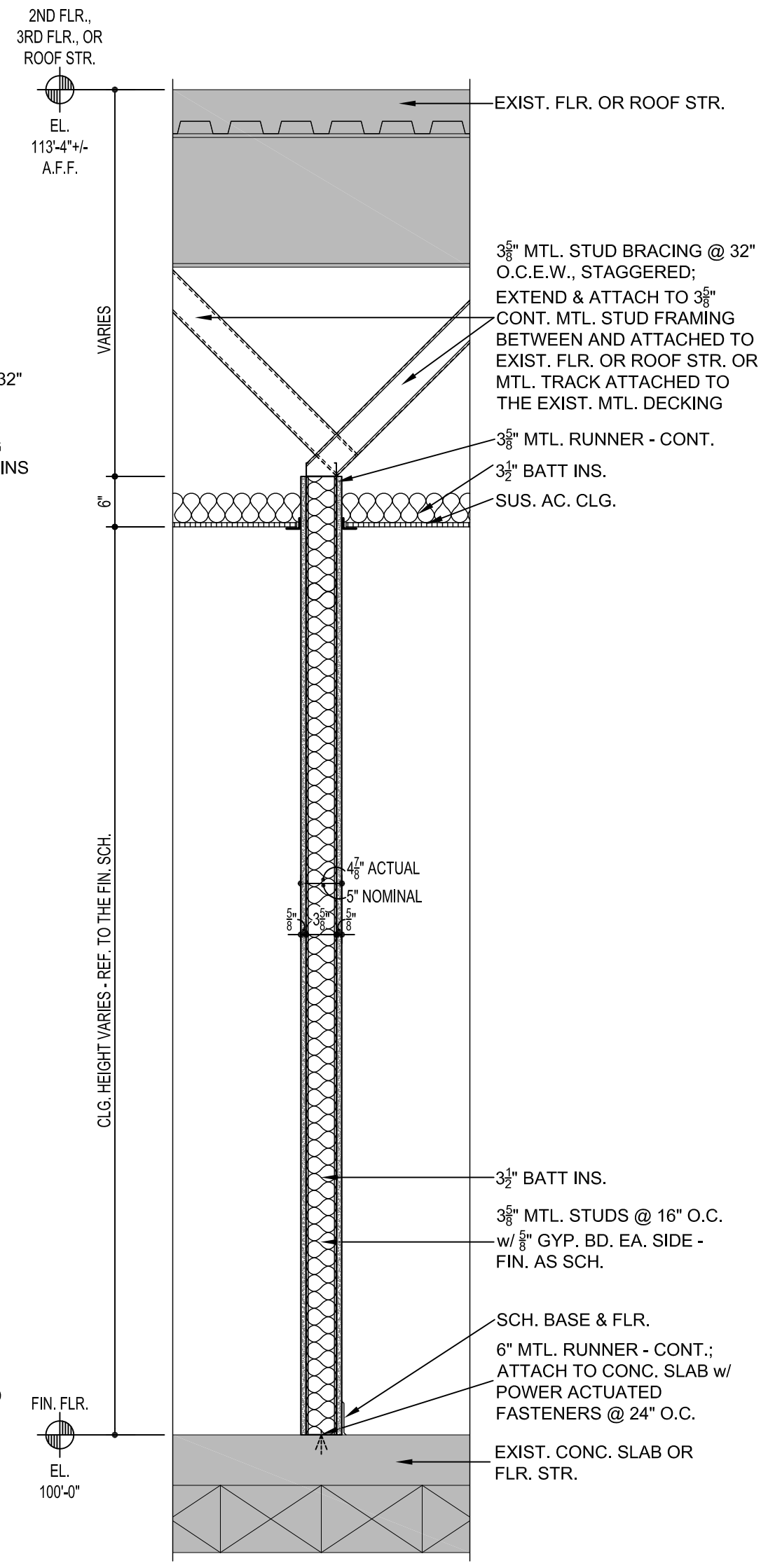
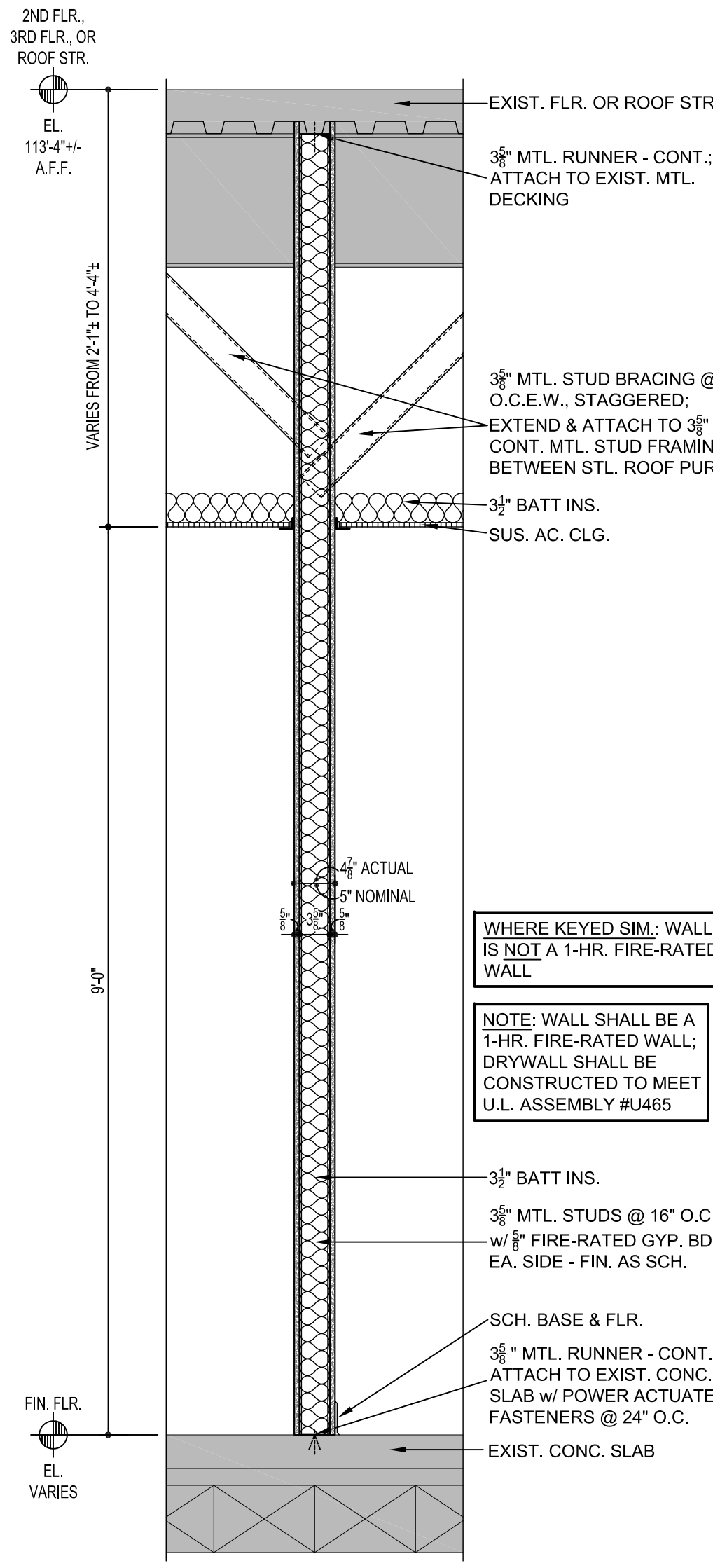
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A103

THIRD FLOOR PLAN - NEW

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





WALL SECTION GENERAL NOTES

- REF. TO THE "FINISH SCHEDULE" INCLUDED IN THE PROJECT MANUAL FOR THE SPECIFIC CEILING FINISH AND HEIGHT, WALL FINISH, WALL BASE, AND FLOOR FINISH FOR EA. ROOM OR SPACE.
- AT SOME LOCATIONS, ROOF STRUCTURE MAY RUN PARALLEL TO A WALL SEC. - REF. STR. PLANS FOR LOCATIONS.
- THE SPACING & GAUGE OF THE STR. STL. WALL STUDS SHALL BE COORDINATED w/ THE STR. PLANS.
- MTL. BLDG. MFG. SHALL PROVIDE STL. FRAMING MEMBERS IN ROOF AS NECESSARY TO SUPPORT THE INSTALLATION OF ANY SCH. SUS. ELEC. UNIT HEATERS, EXHAUST FANS, VENTILATORS, ETC. REF. TO THE MECH., PLUMBING, & ELEC. PLANS FOR MORE INFO.
- THE VAPOR BARRIER SHALL BE PLACED UNDER THE CONCRETE SLAB AND SHALL EXTEND AROUND ALL SIDES OF AND UNDER GRADE BEAMS w/ ALL SEAMS & PENETRATIONS BEING TAPED AND SEALED AS SPEC. IN THE PROJ. MANUAL.
- THE T.O.S. ELEV. OF THE NEW ROOF STR. ARE BASED ON INFO. ON EXIST. DWGS. OF THE EXIST. FACILITIES AND HAVE NOT BEEN FIELD VERIFIED. THE G.C. SHALL FIELD VERIFY ALL EXIST. TOP OF ROOF ELEV. IN RELATION TO THE FIN. FLR. IN EACH BLDG. ANY DIFFERENCES IN THE ACTUAL DIMS. AND THOSE INDICATED ON THE DWGS. SHALL BE COORDINATED w/ THE ARCHITECT PRIOR TO THE FABRICATION OF STR. STL., ETC.

A301-01

A301-02

A301-03

WALL SECTIONS

SCALE: 3/4" = 1'-0"

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 WICHITA FALLS, TEXAS
 34110 TAFT BOULEVARD



DRAWN BY: SAM K. KENSHALO

DATE: 1 APRIL 2019

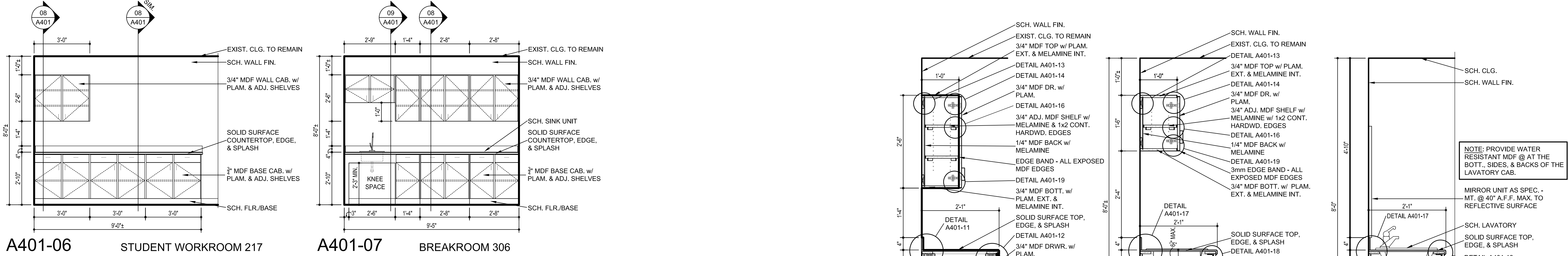
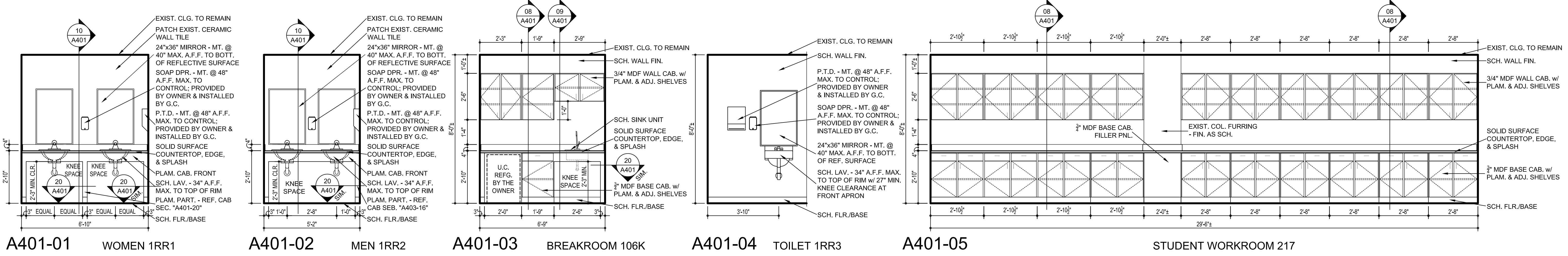
REVISIONS

NO.	DESCRIPTION	DATE

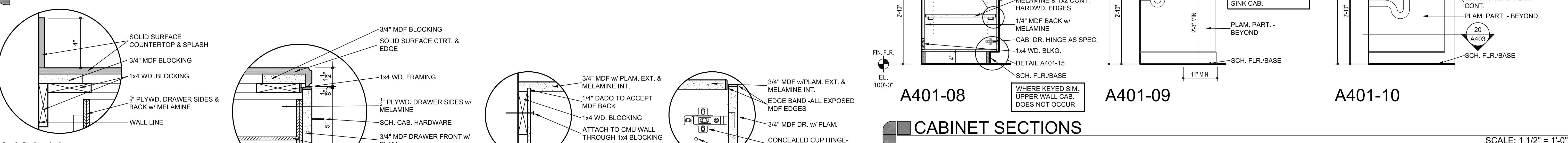
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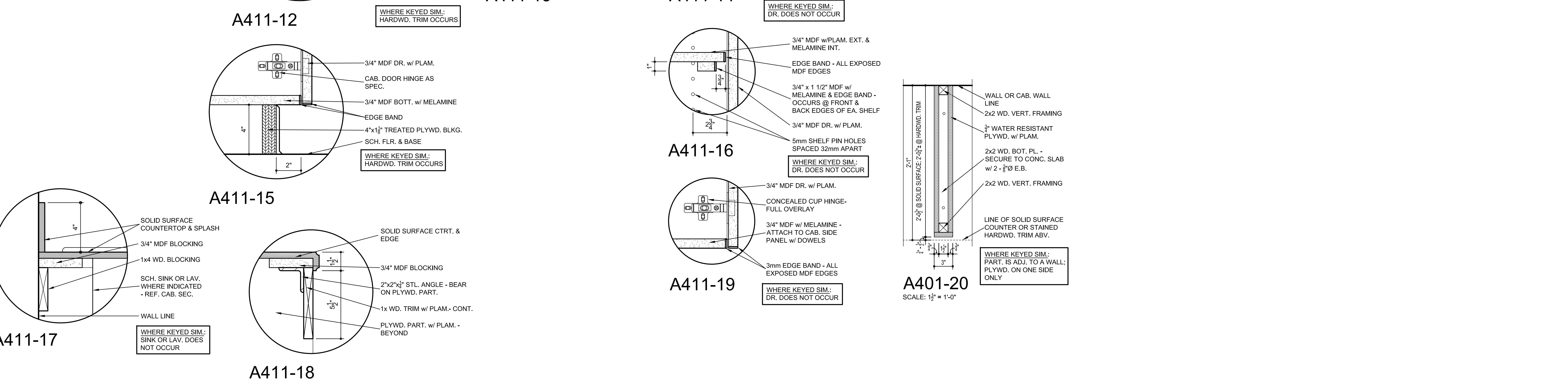
A301



INTERIOR ELEVATIONS



CABINET SECTIONS



CABINET DETAILS

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 34110 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO

DATE: 1 APRIL 2019

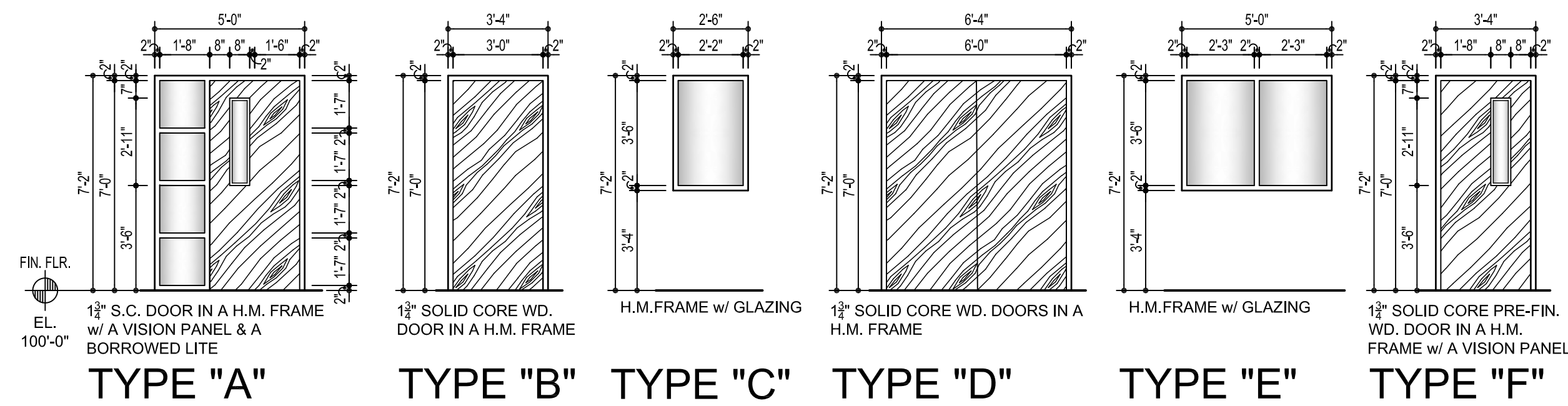
REVISIONS		
NO.	DESCRIPTION	DATE

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A401

SCALE: 3" = 1'-0" U.N.O.



TYPE "A" TYPE "B" TYPE "C" TYPE "D" TYPE "E" TYPE "F"

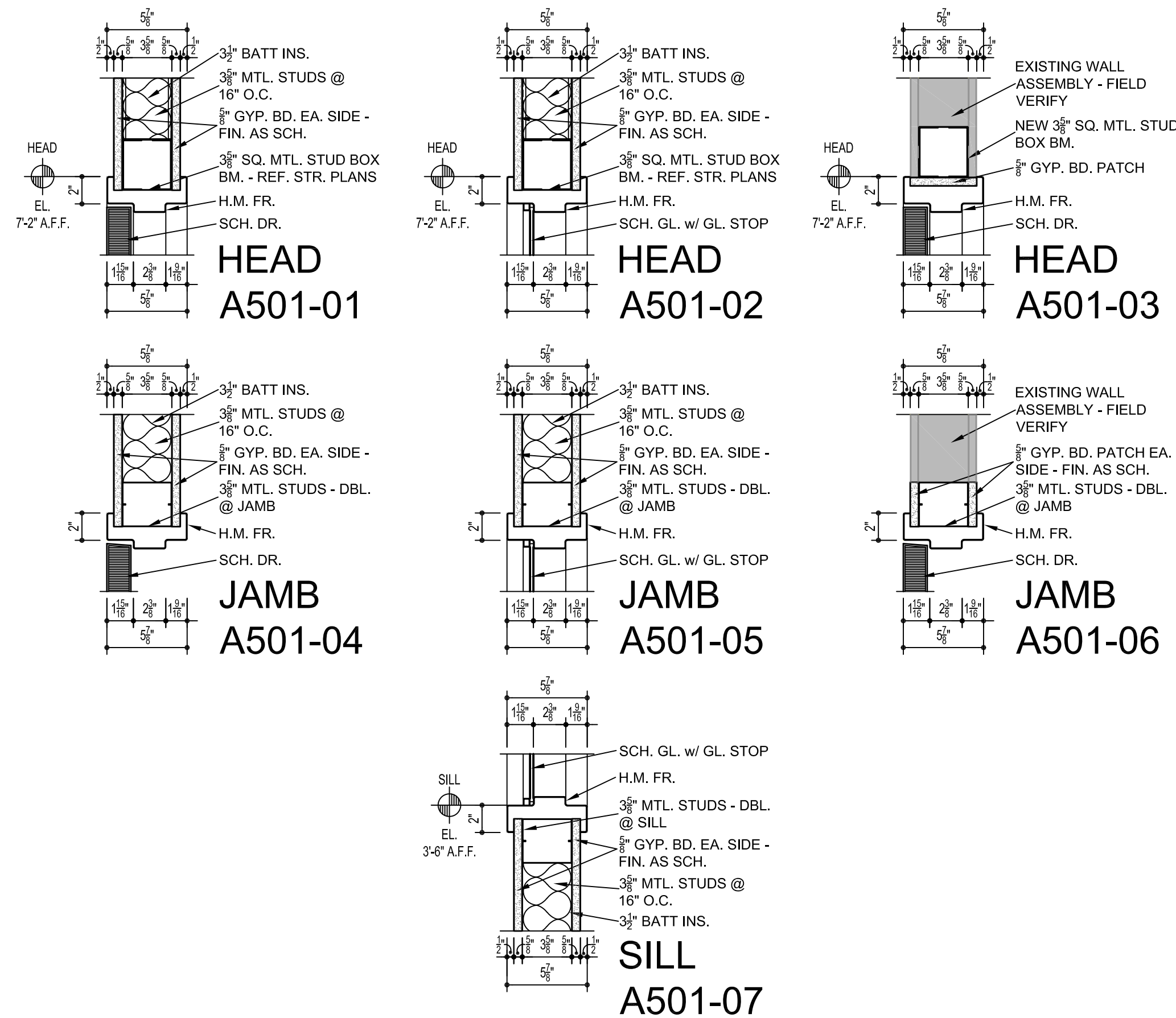
OPENING ELEVATIONS

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

OPENING SCHEDULE							
NO.	TYPE	HEAD	JAMB HINGE	JAMB STRIKE	SILL	GL.	REMARKS
FIRST FLOOR							
1	A	A501-01, A501-02	A501-04	A501-05	A501-07	2	20 MIN.
2	B	A501-01	A501-03	A501-03	----	----	----
3	B	A501-01	A501-03	A501-03	----	----	----
4	C	A501-02	A501-04	A501-04	A501-07	2	20 MIN.
5	C	A501-02	A501-04	A501-04	A501-07	2	20 MIN.
6	D	A501-03	A501-06	A501-06	----	----	INC. IN ALTERNATE #1
7	A	A501-01, A501-02	A501-04	A501-05	A501-07	2	20 MIN.
8	B	A501-03	A501-06	A501-06	----	----	20 MIN.
9	B	A501-03	A501-06	A501-06	----	----	20 MIN.
10	B	A501-01	A501-03	A501-03	----	----	----
11	B	A501-01	A501-03	A501-03	----	----	20 MIN.
12	B	A501-01	A501-03	A501-03	----	----	20 MIN.
13	E	A501-02	A501-04	A501-04	A501-07	2	20 MIN.
14	B	A501-03	A501-06	A501-06	----	----	20 MIN.
15	B	A501-03	A501-06	A501-06	----	----	20 MIN.
16	B	A501-01	A501-03	A501-03	----	----	EXISTING DOOR IN A NEW FRAME
17	B	A501-03	A501-06	A501-06	----	----	20 MIN.
18	B	A501-03	A501-06	A501-06	----	----	20 MIN.
19	B	A501-03	A501-06	A501-06	----	----	20 MIN.
20	B	A501-03	A501-06	A501-06	----	----	20 MIN.
21	F	A501-01	A501-04	A501-04	----	1	----
22	B	A501-01	A501-04	A501-04	----	----	20 MIN.
23	B	A501-01	A501-04	A501-04	----	----	20 MIN.
24	F	A501-03	A501-06	A501-06	----	2	20 MIN.
25	B	A501-01	A501-04	A501-04	----	----	----
26	F	A501-03	A501-06	A501-06	----	2	20 MIN.
48	B	A501-01	A501-04	A501-04	----	----	20 MIN.
SECOND FLOOR							
27	B	A501-03	A501-06	A501-06	----	----	----
28	F	A501-01	A501-04	A501-04	----	2	20 MIN. INC. IN ALTERNATE #2
29	F	A501-01	A501-04	A501-04	----	2	20 MIN. INC. IN ALTERNATE #2
30	F	A501-03	A501-06	A501-06	----	2	20 MIN.
31	F	A501-03	A501-06	A501-06	----	2	20 MIN.
32	B	A501-03	A501-06	A501-06	----	----	20 MIN.
47	B	A501-03	A501-06	A501-06	----	----	----
THIRD FLOOR							
33	B	A501-01	A501-04	A501-04	----	----	----
34	F	A501-03	A501-06	A501-06	----	2	20 MIN.
35	B	A501-01	A501-04	A501-04	----	----	----
36	B	A501-01	A501-04	A501-04	----	----	----
37	B	A501-01	A501-04	A501-04	----	----	----
38	F	A501-03	A501-06	A501-06	----	2	20 MIN. INC. IN ALTERNATE #3A
39	B	A501-03	A501-06	A501-06	----	2	20 MIN.
40	B	A501-03	A501-06	A501-06	----	2	20 MIN. INC. IN ALTERNATE #3A
41	F	A501-03	A501-06	A501-06	----	1	INC. IN ALTERNATE #3A
42	B	A501-03	A501-06	A501-06	----	2	20 MIN. INC. IN ALTERNATE #3A
43	B	A501-03	A501-06	A501-06	----	2	20 MIN. INC. IN ALTERNATE #3A
44	B	A501-03	A501-06	A501-06	----	2	20 MIN. INC. IN ALTERNATE #3A
45	B	A501-03	A501-06	A501-06	----	2	20 MIN. INC. IN ALTERNATE #3A
46	B	A501-01	A501-04	A501-04	----	----	----

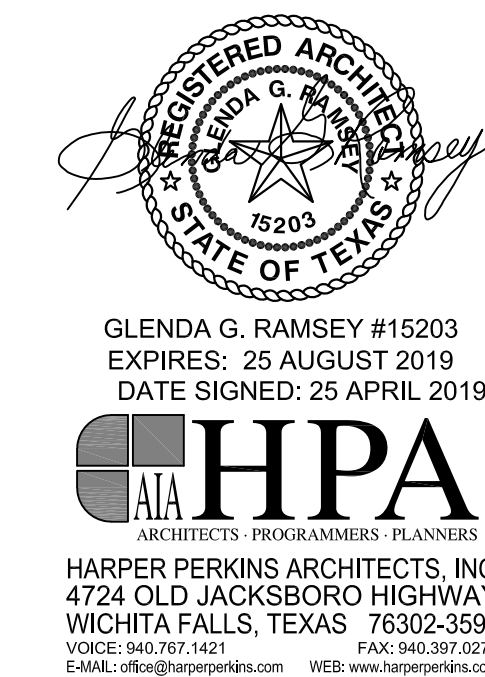
GLAZING TYPES

TYPE 1 GLAZING: 1/4" CLEAR TEMPERED GLASS - EXCEPT CLEAR FLOAT WHERE ALLOWED BY CPSC OR BUILDING CODE
 TYPE 2 GLAZING: 1/4" FIRE-RATED GLASS



OPENING DETAILS

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



RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 3410 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO

DATE: 1 APRIL 2019

REVISIONS

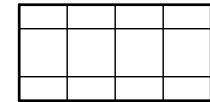
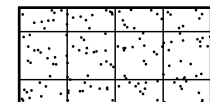

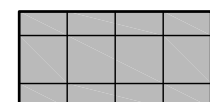
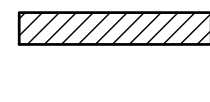

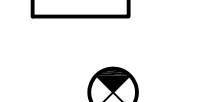

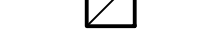

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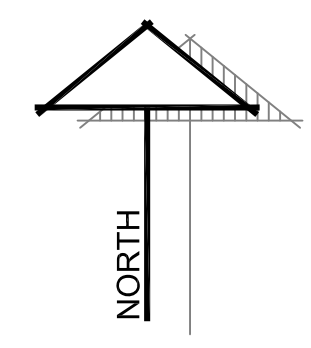
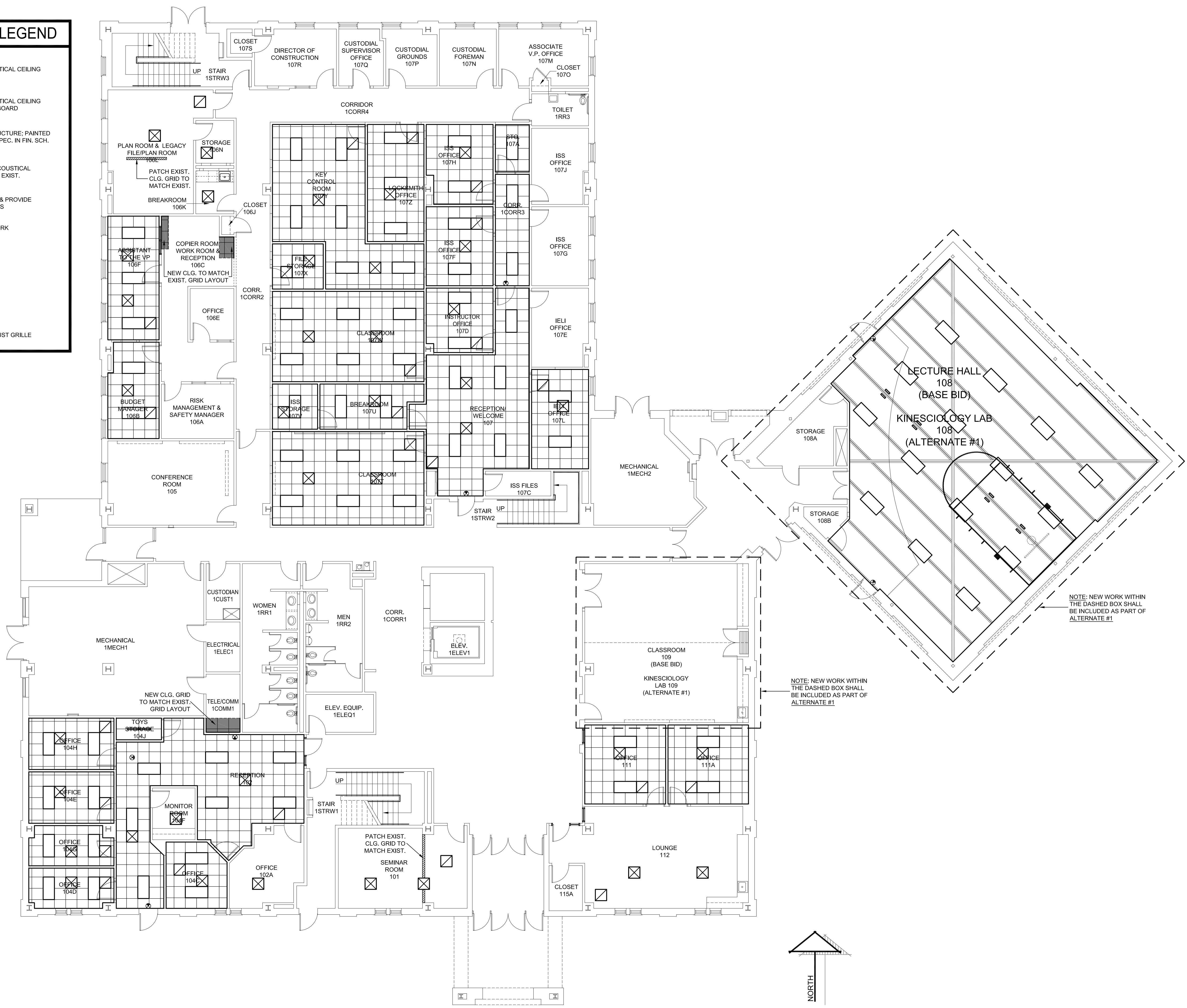
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A501

REFLECTED CEILING LEGEND

-  2'x2' SUSPENDED ACOUSTICAL CEILING
-  2'x2' SUSPENDED ACOUSTICAL CEILING - VINYL FACED GYPSUM BOARD
-  EXISTING EXPOSED STRUCTURE: PAINTED STL. MEMBERS WHERE SPEC. IN FIN. SCH. IN PROJ. MANUAL)
-  NEW 2'x2' SUSPENDED ACOUSTICAL CEILING GRID w/ REUSED EXIST. CEILING TILES
-  PATCH EXIST. CLG. GRID & PROVIDE REUSED EXIST. CLG. TILES
-  EXPOSED HVAC DUCTWORK
-  LIGHT FIXTURES
-  EXIT LIGHT
-  HVAC SUPPLY DIFFUSER
-  HVAC RETURN AIR/EXHAUST GRILLE



GLENDIA G. RAMSEY #15203
EXPIRES: 25 AUGUST 2019
DATE SIGNED: 25 APRIL 2019

HPA
ARCHITECTS PROGRAMMERS PLANNERS
HARPER PERKINS ARCHITECTS, INC.
4724 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302-3599
VOICE: 817.767.1121 FAX: 817.391.0223
E-MAIL: office@harperperkins.com WEB: www.harperperkins.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
34110 TAFT BOULEVARD
WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO
DATE: 1 APRIL 2019

REVISIONS

NO.	DESCRIPTION	DATE

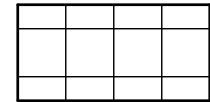
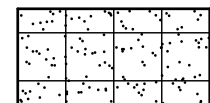
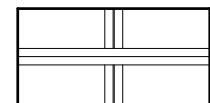
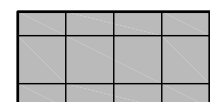
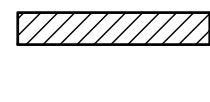
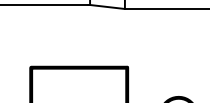
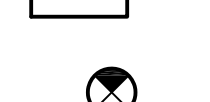



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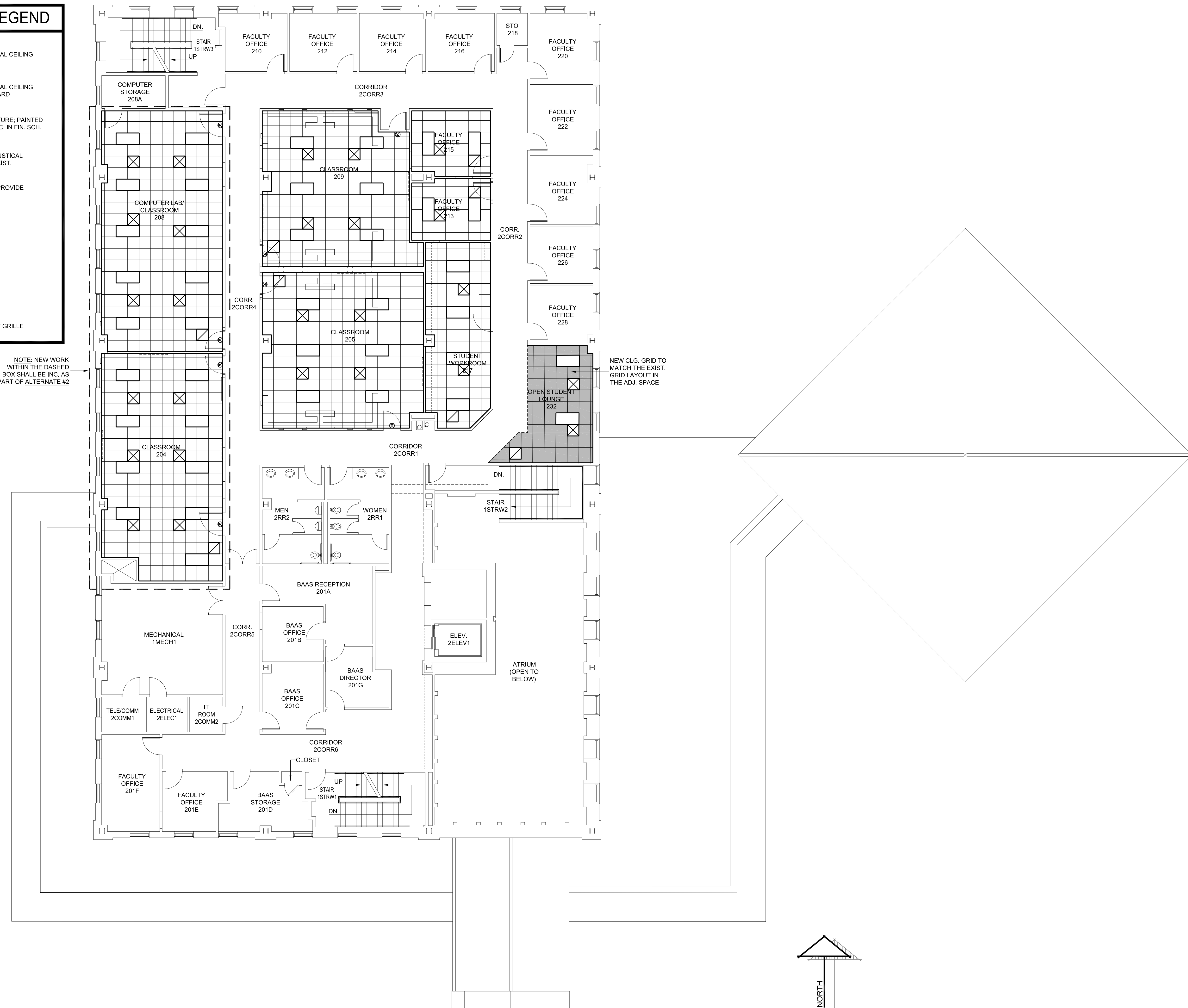
FIRST FLOOR PLAN - NEW - REFLECTED CEILING

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

REFLECTED CEILING LEGEND

-  2'x2' SUSPENDED ACOUSTICAL CEILING
-  2'x2' SUSPENDED ACOUSTICAL CEILING - VINYL FACED GYPSUM BOARD
-  EXISTING EXPOSED STRUCTURE: PAINTED STL. MEMBERS WHERE SPEC. IN FIN. SCH. IN PROJ. MANUAL)
-  NEW 2'x2' SUSPENDED ACOUSTICAL CEILING GRID W/ REUSED EXIST. CEILING TILES
-  PATCH EXIST. CLG. GRID & PROVIDE REUSED EXIST. CLG. TILES
-  EXPOSED HVAC DUCTWORK
-  LIGHT FIXTURES
-  EXIT LIGHT
-  HVAC SUPPLY DIFFUSER
-  HVAC RETURN AIR/EXHAUST GRILLE

NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INC. AS PART OF ALTERNATE #2




 GLENDA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 25 APRIL 2019

HPA
 ARCHITECTS - PROGRAMMERS - PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 940.767.1421 FAX: 940.261.2273
 E-MAIL: office@harperperkins.com WEB: www.harperperkins.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 34110 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO
 DATE: 1 APRIL 2019

REVISIONS		
NO.	DESCRIPTION	DATE

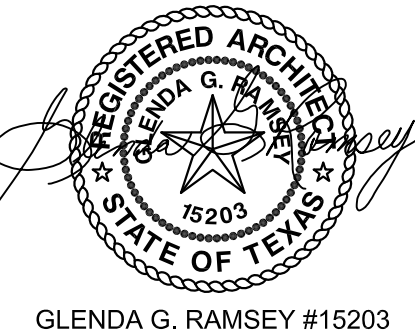
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A702

SECOND FLOOR PLAN - NEW - REFLECTED CEILING

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



GLENDIA G. RAMSEY #15203
EXPIRES: 25 AUGUST 2019
DATE SIGNED: 25 APRIL 2019



HARPER PERKINS ARCHITECTS, INC.
4724 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302-3599
VOICE: 817.797.1421 FAX: 817.797.0273
E-MAIL: office@harperperkins.com WEB: www.harperperkins.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
3410 TAFT BOULEVARD
WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO

DATE: 1 APRIL 2019

REVISIONS

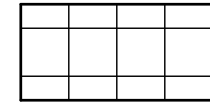
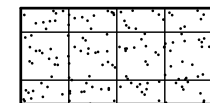

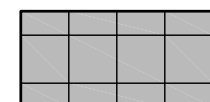
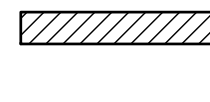

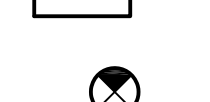



NO.	DESCRIPTION	DATE

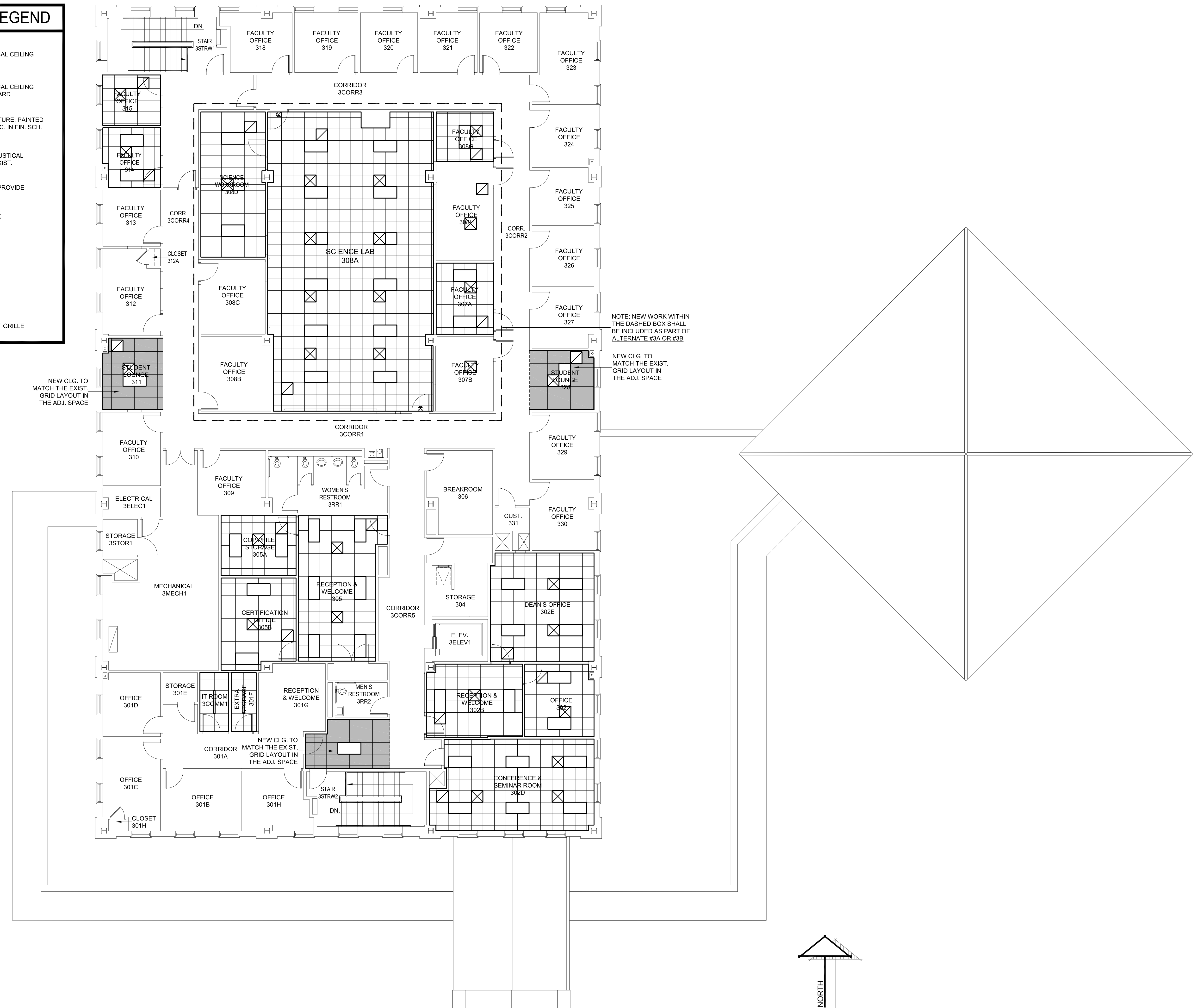
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A703

REFLECTED CEILING LEGEND

-  2'x2' SUSPENDED ACOUSTICAL CEILING
-  2'x2' SUSPENDED ACOUSTICAL CEILING - VINYL FACED GYPSUM BOARD
-  EXISTING EXPOSED STRUCTURE: PAINTED STL. MEMBERS WHERE SPEC. IN FIN. SCH. IN PROJ. MANUAL)
-  NEW 2'x2' SUSPENDED ACOUSTICAL CEILING GRID w/ REUSED EXIST. CEILING TILES
-  PATCH EXIST. CLG. GRID & PROVIDE REUSED EXIST. CLG. TILES
-  EXPOSED HVAC DUCTWORK
-  LIGHT FIXTURES
-  EXIT LIGHT
-  HVAC SUPPLY DIFFUSER
-  HVAC RETURN AIR/EXHAUST GRILLE

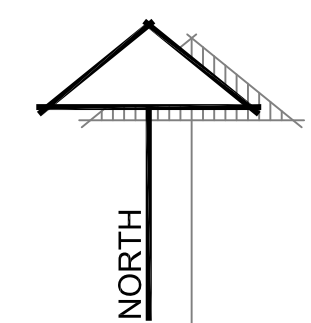


NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INCLUDED AS PART OF ALTERNATE #3A OR #3B

NEW CLG. TO MATCH THE EXIST. GRID LAYOUT IN THE ADJ. SPACE

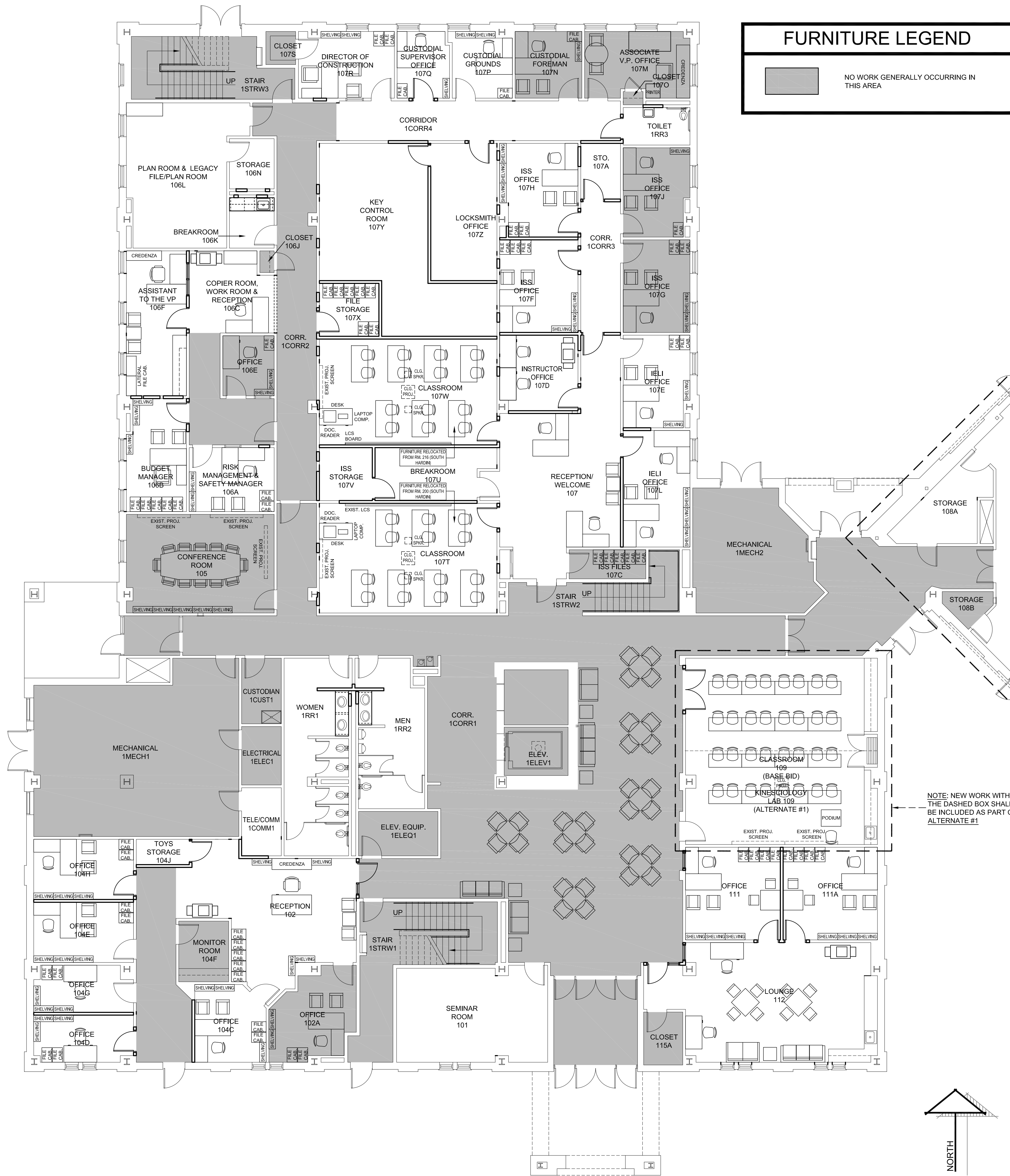
NEW CLG. TO MATCH THE EXIST. GRID LAYOUT IN THE ADJ. SPACE

NEW CLG. TO MATCH THE EXIST. GRID LAYOUT IN THE ADJ. SPACE



THIRD FLOOR PLAN - NEW - REFLECTED CEILING

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

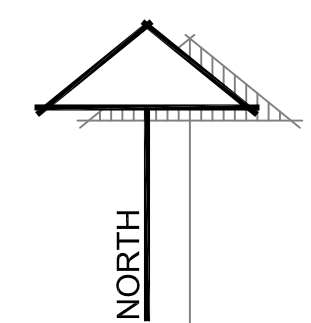
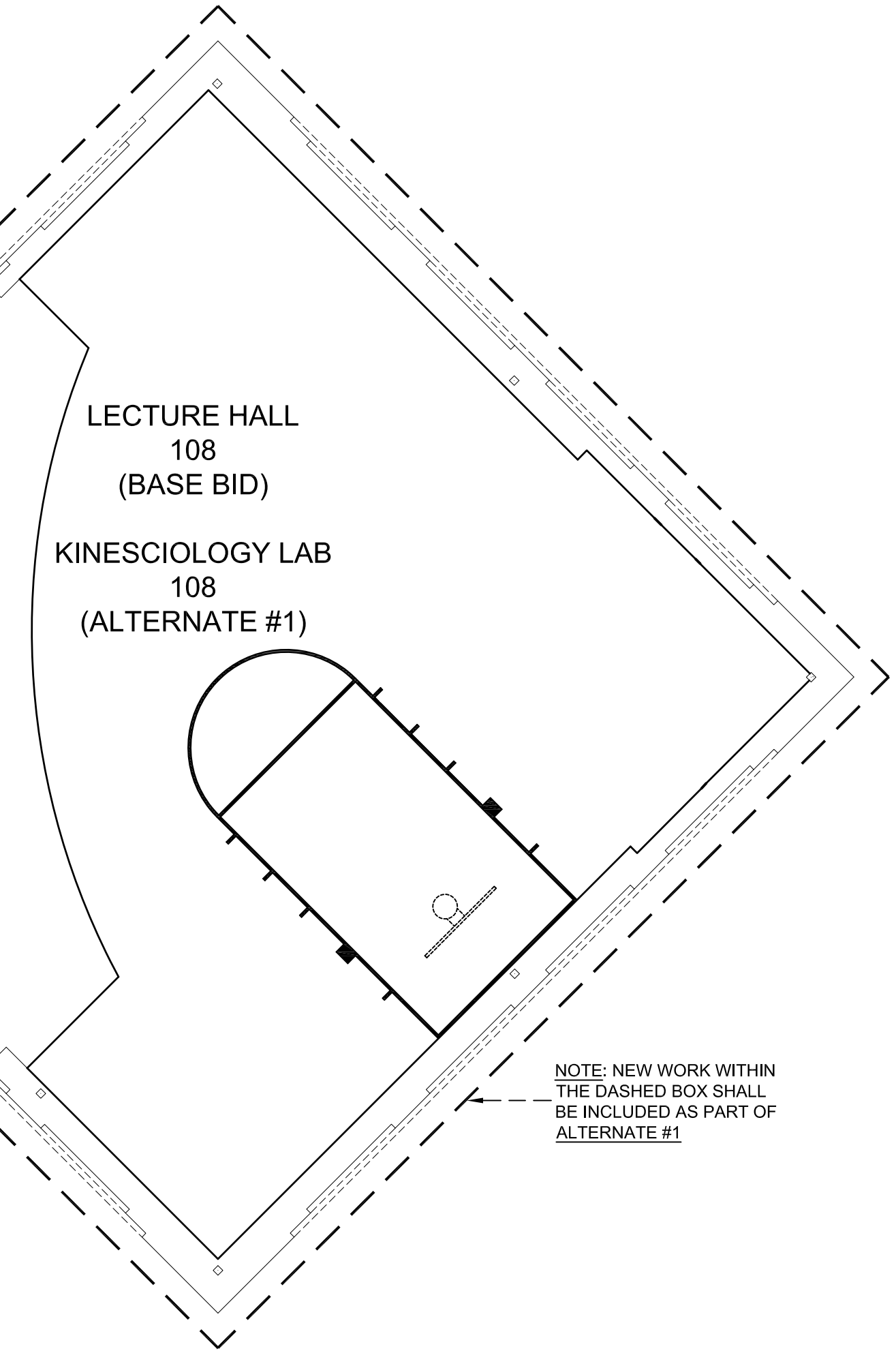


FURNITURE LEGEND

NO WORK GENERALLY OCCURRING IN THIS AREA

FURNITURE PLAN GENERAL NOTES

1. FURNITURE PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE EXISTING FURNITURE AND ANY NEW FURNITURE IS TO BE LOCATED & INSTALLED BY THE OWNER.



FIRST FLOOR FURNITURE PLAN

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



GLENDIA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 25 APRIL 2019
HPA
 ARCHITECTS PROGRAMMERS PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 817.767.1121 FAX: 817.391.0273
 E-MAIL: office@harperperkins.com WEB: www.harperperkins.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 3410 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO

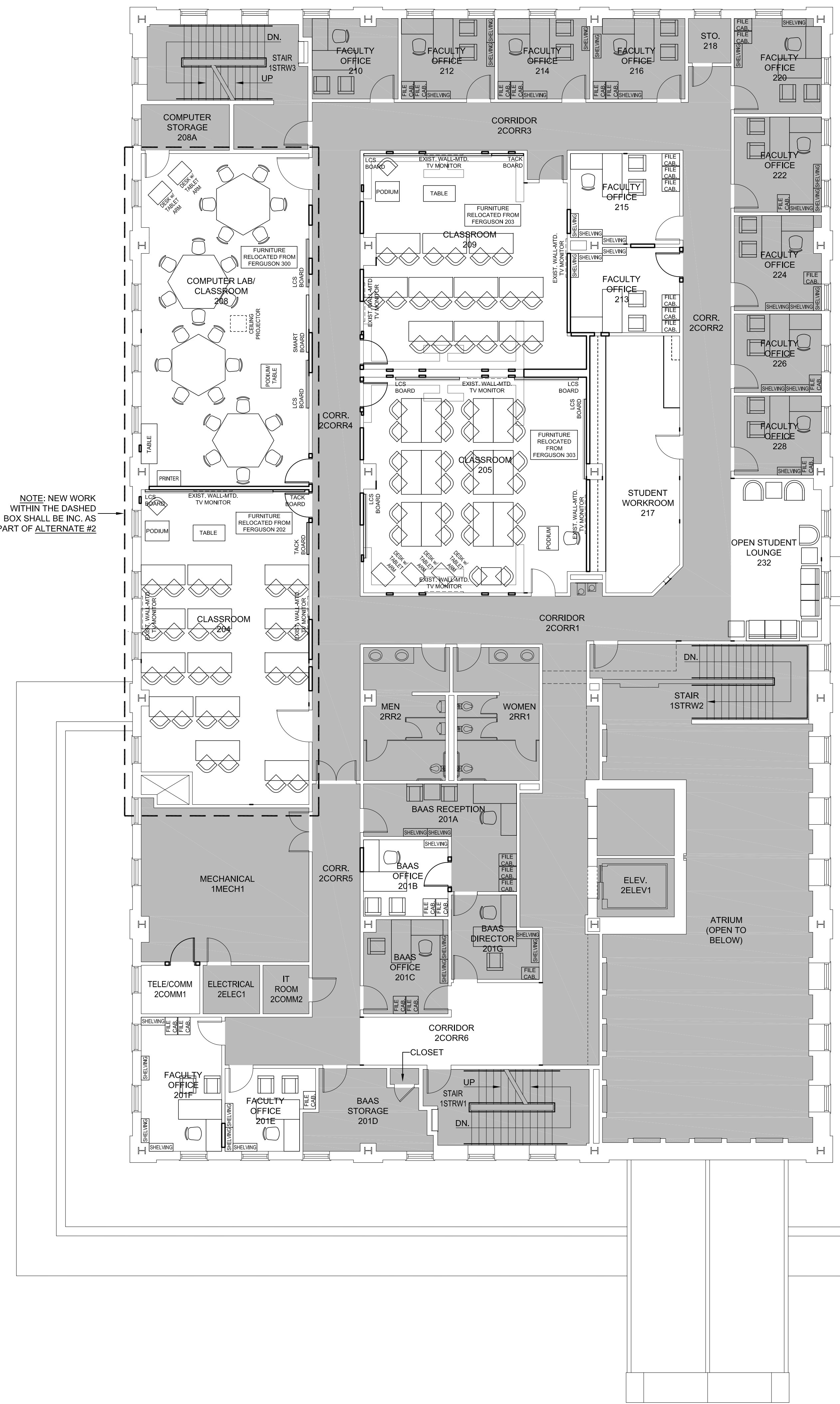
DATE: 1 APRIL 2019

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NO.	DESCRIPTION	DATE

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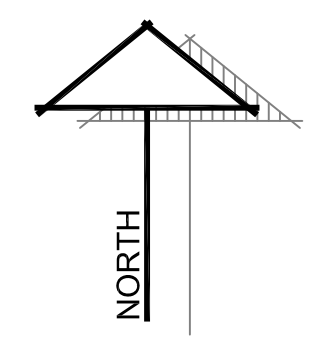
FURNITURE LEGEND

NO WORK GENERALLY OCCURRING IN THIS AREA

FURNITURE PLAN GENERAL NOTES

1. FURNITURE PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE EXISTING FURNITURE AND ANY NEW FURNITURE IS TO BE LOCATED & INSTALLED BY THE OWNER.

NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INC. AS PART OF ALTERNATE #2



SECOND FLOOR FURNITURE PLAN

GLEND A. G. RAMSEY #15203
EXPIRES: 25 AUGUST 2019
DATE SIGNED: 25 APRIL 2019

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ARCHITECTS PROGRAMMERS PLANNERS
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DATE: 1 APRIL 2019

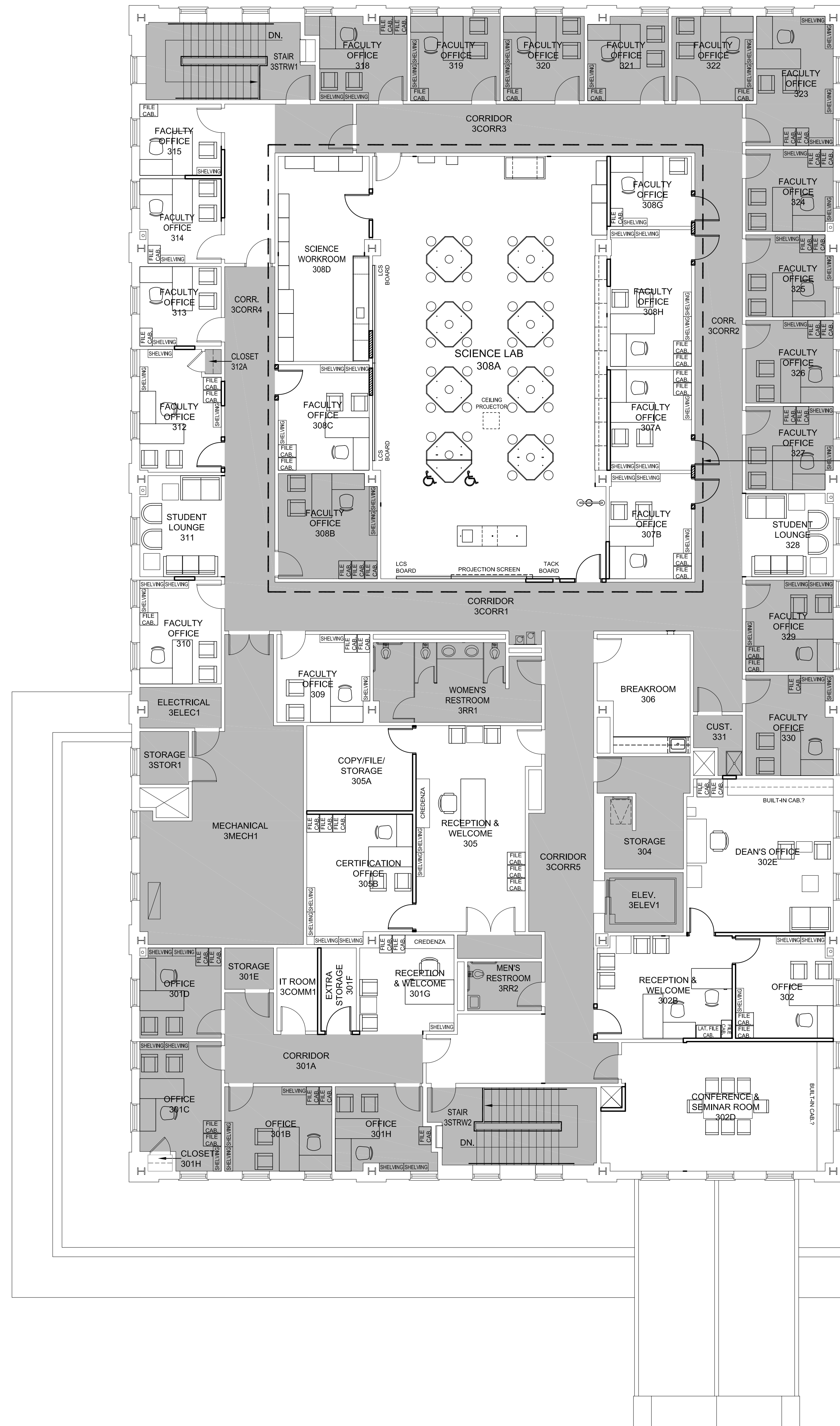
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NO.	DESCRIPTION	DATE

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A705

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



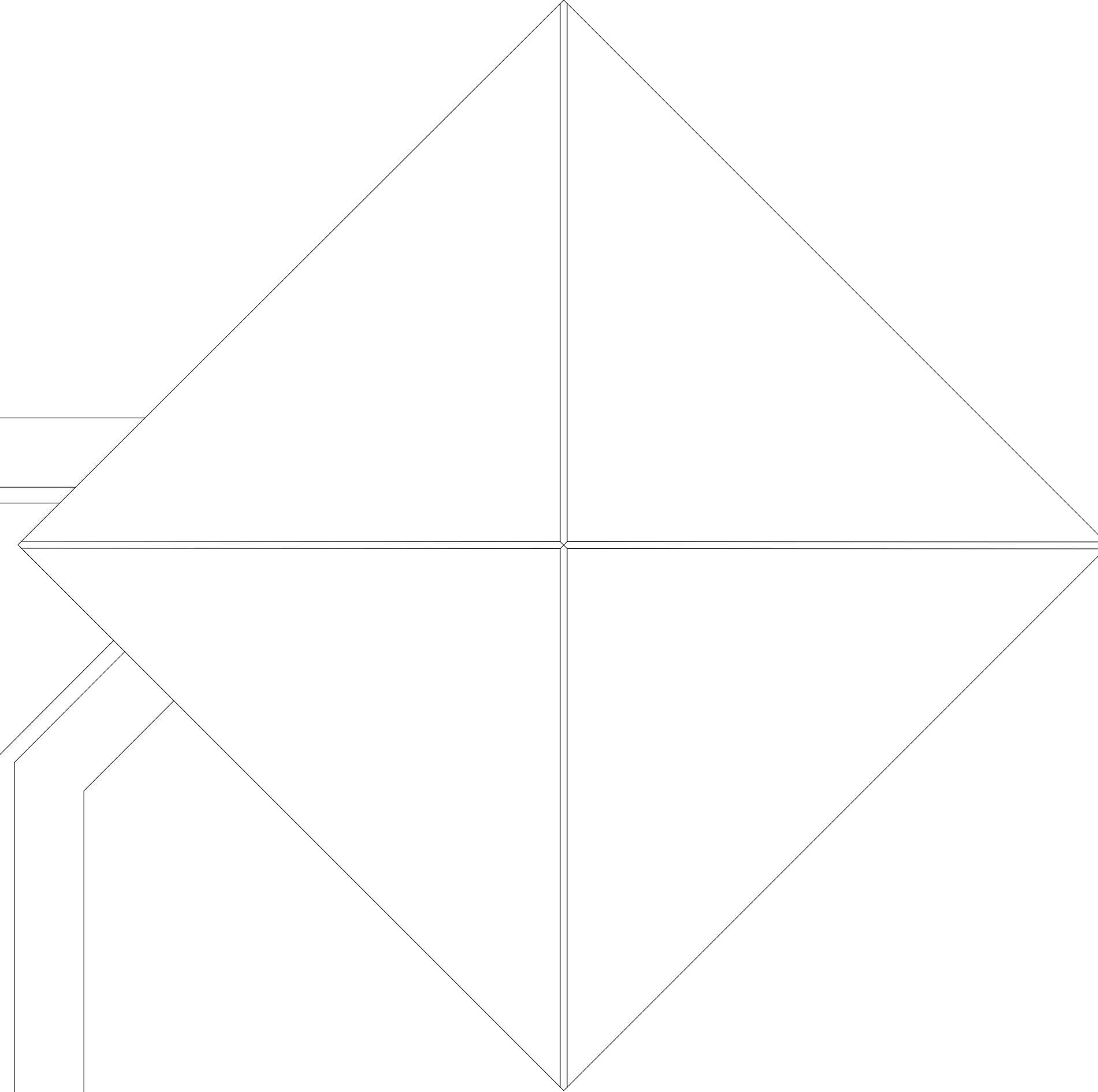
FURNITURE LEGEND

NO WORK GENERALLY OCCURRING IN THIS AREA

FURNITURE PLAN GENERAL NOTES

1. FURNITURE PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE EXISTING FURNITURE AND ANY NEW FURNITURE IS TO BE LOCATED & INSTALLED BY THE OWNER.

NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INCLUDED AS PART OF ALTERNATE #3A OR #3B



DRAWN BY: SAM K. KENSHALO

DATE: 1 APRIL 2019

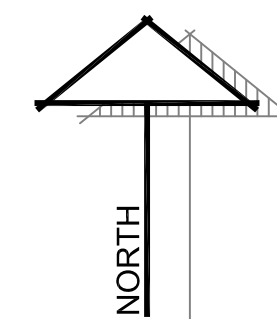
REVISIONS

NO.	DESCRIPTION	DATE

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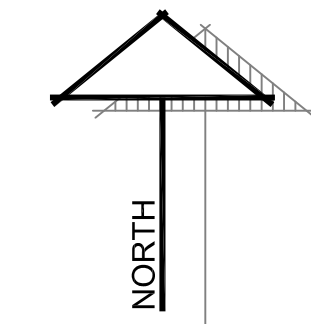
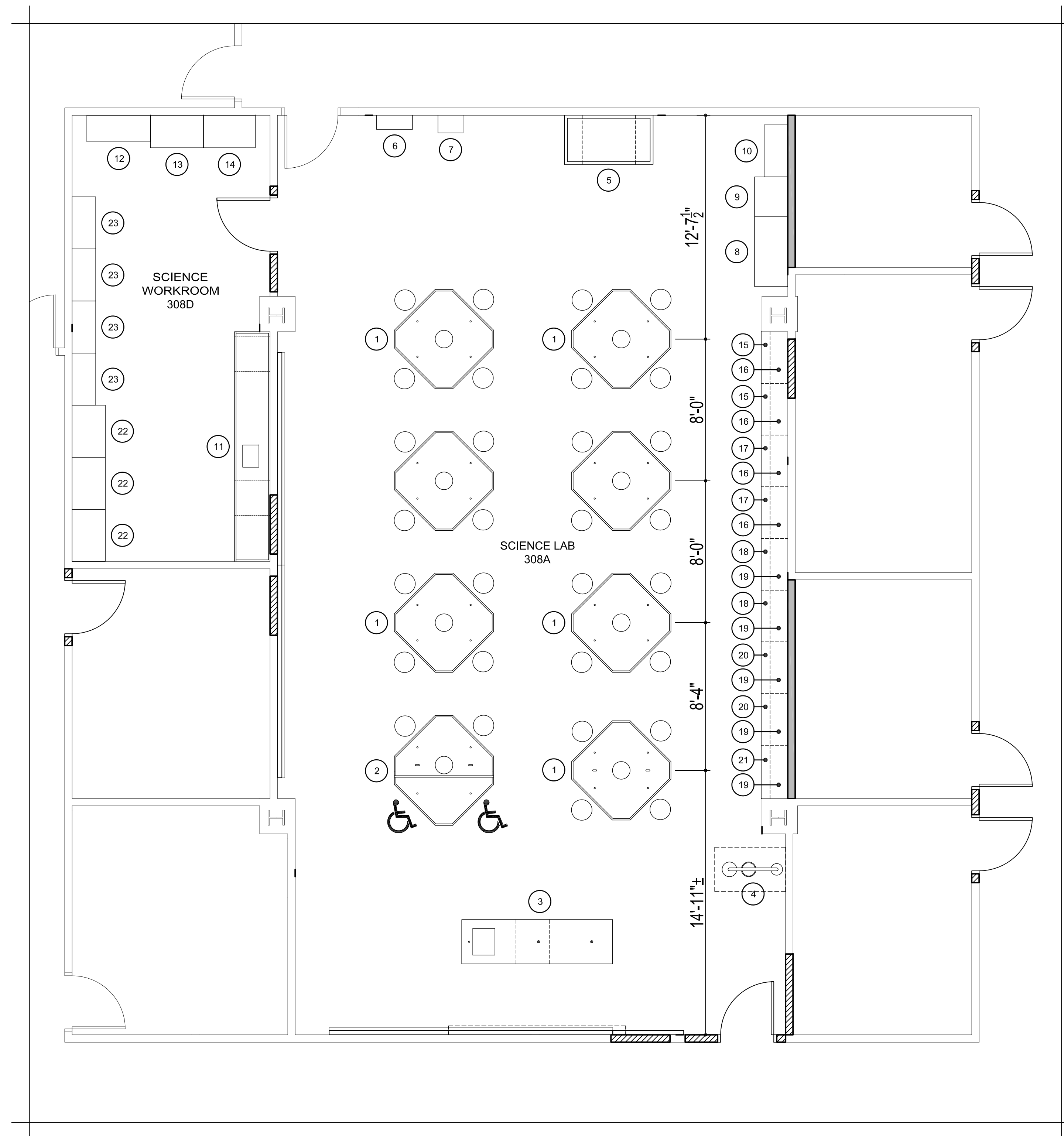


SCIENCE EQUIPMENT	
NO.	EQUIPMENT DESCRIPTION
1	STUDENT TABLE (PEDESTAL)
2	STUDENT TABLE (PEDESTAL - HANDICAPPED ACC.)
3	INSTRUCTOR'S DESK
4	EMERGENCY SHOWER/EYEWASH UNIT
5	FUME HOOD (HANDICAPPED ACC.)
6	SAFETY GLASSES/GOGGLES MONITOR
7	FIRE BLANKET
8	TOTE TRAY CASE
9	MICROSCOPE CASE
10	TORSO CASE
11	RINSE COUNTER (w/ D.W., ICE MAKER, & U.C. REF. BY OWNER)
12	FLAMMABLE STORAGE CABINET
13	ACID/CORROSIVE STORAGE CABINET
14	ACID STORAGE BASE CABINET
15	BASE CABINET UNIT (w/ DRAWERS & DOOR)
16	WALL CABINET UNIT (w/ GLASS DOORS)
17	BASE CABINET UNIT (w/ DRAWERS)
18	BASE CABINET UNIT (w/ DRAWERS)
19	WALL CABINET UNIT (w/ SOLID DOORS)
20	BASE CABINET UNIT (w/ A DRAWER & DOORS)
21	BASE CABINET UNIT (w/ DRAWERS & DOORS)
22	OPEN SHELVING UNIT (22"D.)
23	OPEN SHELVING UNIT (16"D.)

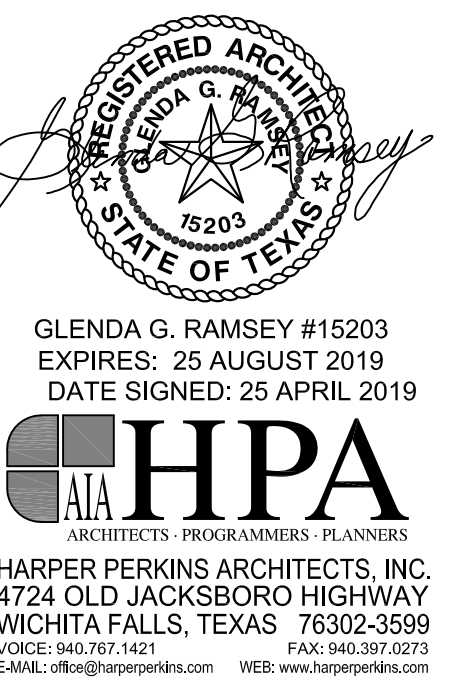
ALTERNATES

REF. THE DRAWINGS AND SEC. 012300 OF THE PROJ. MANUAL FOR MORE INFORMATION AND DESCRIPTIONS ON THE ALTERNATES FOR THIS PROJECT. THE ALTERNATES ARE AS FOLLOWS:

- ALTERNATE #1:** ON THE FIRST FLOOR, THE EXISTING "LECTURE HALL 108" WILL BE CONVERTED TO "KINESIOLOGY LAB 108"; THE EXISTING "CLASSROOM 109" WILL BE CONVERTED TO "KINESIOLOGY EQUIPMENT STORAGE 109".
- ALTERNATE #2:** ON THE SECOND FLOOR, EXISTING CLASSROOMS AND BREAK ROOM WILL BE CONVERTED TO LARGER "CLASSROOM 204" AND "COMPUTER LAB/CLASSROOM 208".
- ALTERNATE #3A:** ON THE THIRD FLOOR, EXISTING OFFICE SPACES WILL BE CONVERTED INTO "SCIENCE LAB 308A" AND "SCIENCE WORKROOM/STORAGE 308D". THIS ALTERNATE WILL CREATE THE SPACES AND PROVIDE FINISHES AND MECH./ELEC./PLUMBING "ROUGH IN" ONLY. **ALTERNATE #3B:** PROVIDE SPEC. SCIENCE EQUIPMENT (REF. SEC. 123480 OF THE PROJ. MANUAL), REF. TO THE DWGS. FOR MORE INFO.; **ALTERNATE #3C:** PROVIDE THE MECH./ELEC./PLUMBING FINISH OUT OF THE SPACES AND FOR THE SCIENCE EQUIPMENT. THE SCOPE OF WORK WITH THIS ALTERNATE WILL OCCUR IN CONJUNCTION WITH THE ACCEPTANCE OF **ALTERNATE #3B**. REF. TO THE DWGS. FOR MORE INFO.
- ALTERNATE #4:** PROVIDE NEW I.T. INFRASTRUCTURE UPGRADES AS INDICATED IN THE ELEC. DWGS.



ENLARGED THIRD FLOOR PLAN - PARTIAL - NEW; SCIENCE LAB & STORAGE (ALTERNATES #3B & #3C) SCALE: 1/4" = 1'-0"



RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 3410 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



DRAWN BY: SAM K. KENSHALO

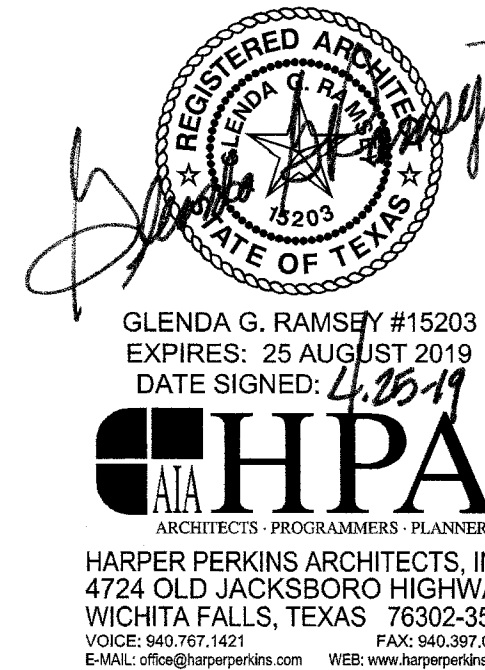
DATE: 1 APRIL 2019

REVISIONS		
NO.	DESCRIPTION	DATE

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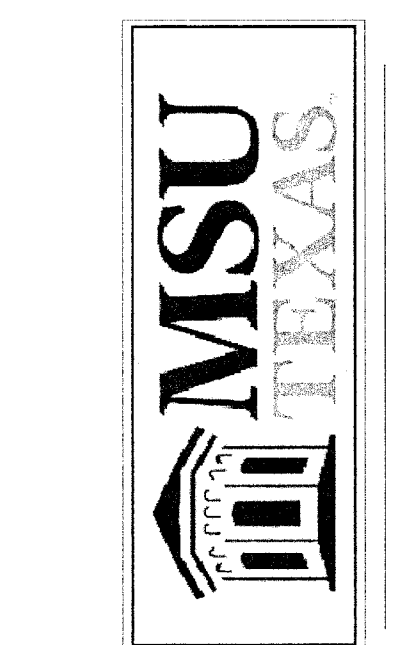
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QF101



GLENDA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 4/25/19
HPA
 ARCHITECTS - PROGRAMMERS - PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76702-3599
 VOICE: 840.767.1421 FAX: 840.397.0273
 E-MAIL: cph@hpaarchitects.com WEB: www.hpaarchitects.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 WICHITA FALLS, TEXAS
 3410 TAFT BOULEVARD



DRAWN BY: [Signature]
 DATE: 1 APRIL 2019
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M0.1



1300 Summit Avenue Suite 500 Fort Worth, Texas 76102
 4144 N. Central Expwy Suite 635 Dallas, Texas 75204
 www.summitmep.com Office 214.420.9111

NOTE: ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

MECHANICAL SYMBOLS AND ABBREVIATIONS

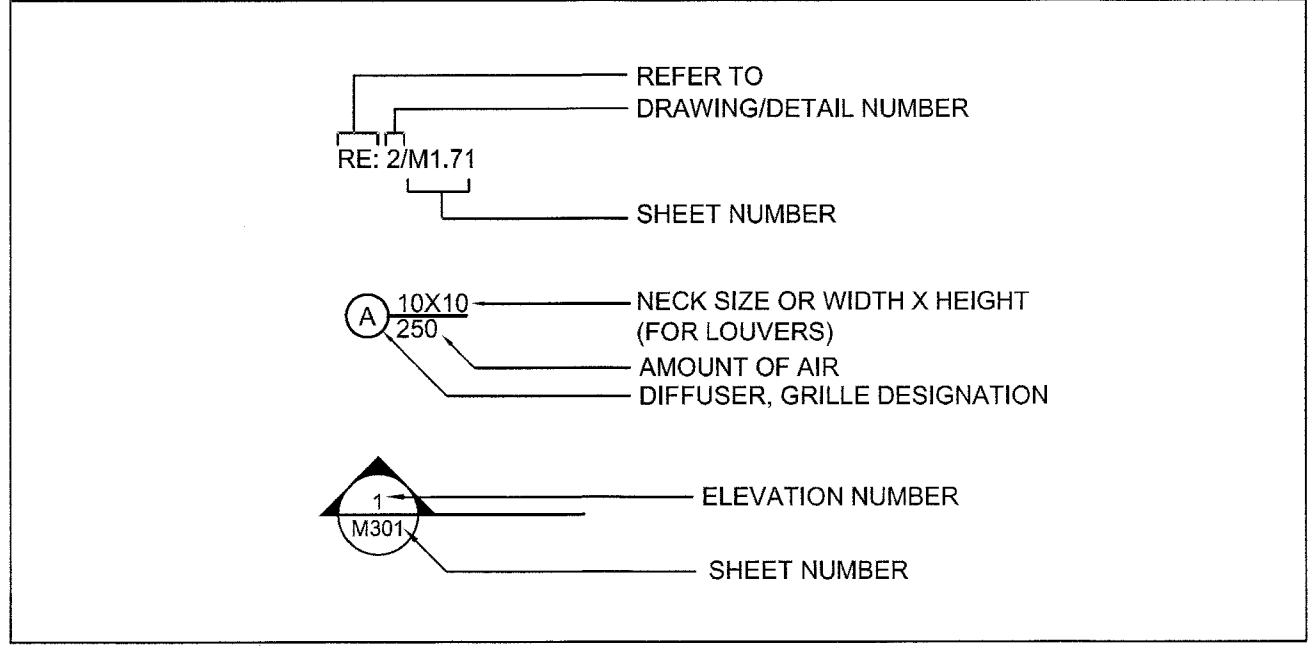
GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALL PERMITS, INSPECTIONS, LICENSES AND FEES. FURNISH ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS.
2. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, FIXTURES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS. TAKE ALL DIMENSIONS, MEASUREMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC FROM THE ARCHITECTURAL DRAWINGS AND FROM THE EQUIPMENT TO BE FURNISHED. PIPING MAY BE RELOCATED OR OFFSET FOR PROPER CLEARANCES OR TO AVOID CONFLICTS WITH OTHER TRADES. THE DESIGN INTENT (I.E. PITCHES, VELOCITIES, PRESSURE DROPS, VOLTAGE DROPS, ETC) CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. THE COST OF THESE DEVIATIONS TO AVOID INTERFERENCE SHALL BE PART OF THE ORIGINAL CONTRACT BID.
3. CONFER AND COOPERATE WITH ALL OTHER TRADES TO COORDINATE THEIR WORK. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO MATERIALS AND EQUIPMENT ROUTED IN CEILING AND WALL CAVITIES, EQUIPMENT ARRANGEMENT IN MECHANICAL SPACES, INCLUDING EQUIPMENT CLEARANCES, REQUIREMENTS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS, ETC. NOTIFY THE ARCHITECT OF ANY CONFLICTS.
4. BASE FINAL INSTALLATION OF MATERIALS AND EQUIPMENT ON ACTUAL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE. FIELD MEASURE FOR MATERIALS AND EQUIPMENT REQUIRING EXACT FIT. NO EXTRAS WILL BE GIVEN FOR THE CONTRACTORS FAILURE TO FIELD COORDINATE.
5. THE OWNER OR ENGINEER ARE NOT RESPONSIBLE FOR SAFETY PRECAUTIONS OR FOR MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE WORK.
6. LOCATE ALL EQUIPMENT THAT MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE (BUT NOT LIMITED TO) VALVES, MOTORS, CONTROLLERS, SWITCHGEAR, AND DRAIN POINTS IF REQUIRED FOR BETTER ACCESSIBILITY. FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY THE ARCHITECT PRIOR TO MAKING THE CHANGE.
7. PROVIDE ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS OR ANY OTHER CONSTRUCTION REQUIREMENT NEEDED TO ACCOMMODATE THE MECHANICAL EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO BE INSTALLED IN THE NORMAL COURSE OF WORK.
8. COORDINATE ELECTRICAL REQUIREMENTS OF APPROVED EQUIPMENT WITH ALL TRADES PRIOR TO THE PURCHASE AND INSTALLATION OF ANY ELECTRICAL GEAR OR CONDUIT.
9. PROVIDE GENERAL CONTROL WIRING, THERMOSTATS, MOTORIZED DAMPERS AND CONDUIT ASSOCIATED WITH HVAC EQUIPMENT. COORDINATE THE LOCATION OF ALL THERMOSTATS, ROOM SENSORS, ETC WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO INSTALLATION. IF A CONFLICT WITH MILLWORK, LIGHT SWITCHES, WINDOWS, ETC EXISTS, NOTIFY THE ARCHITECT OF THE POTENTIAL INTERFERENCE PRIOR TO INSTALLATION. INSTALL THERMOSTATS WITH PROTECTIVE LOCKING COVER, WITH TOP OF CONTROLS AT 4'-0" ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED. COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY STANDARD (TAS).
10. ALL DIMENSIONS SHOWN ON THE DRAWINGS FOR DUCTWORK ARE NET INSIDE CLEAR DIMENSIONS. FOR RECTANGULAR DUCT, THE FIRST FIGURE OF THE DUCT SIZE INDICATES THE DIMENSION OF THE FACE SHOWN. VERIFY THAT THE DUCTWORK SPECIFIED WILL FIT IN THE SPACE AVAILABLE USING THE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS AS REFERENCE PRIOR TO FABRICATION AND INSTALLATION. ROUND DUCT OF EQUAL NET INSIDE CLEAR AREA MAY BE USED IN LIEU OF RECTANGULAR DUCT.
11. PROVIDE TURNING VANES ON ALL RECTANGULAR SUPPLY, EXHAUST AND RETURN DUCTWORK INCLUDING THE TOP AND BOTTOM OF VERTICAL DUCTS.
12. PROVIDE A LOCKING QUADRANT VOLUME DAMPER AT THE TAP OF EACH RUN-OUT TO DIFFUSERS FOR BALANCING PURPOSES, UNLESS OTHERWISE INDICATED. THE RUN-OUT DUCT SIZE IS THE SAME SIZE AS THE DIFFUSER OR GRILLE NECK SIZE UNLESS OTHERWISE INDICATED.
13. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS AND CEILINGS. PROVIDE FIRE DAMPERS AND/OR COMBINATION FIRE/SMOKE DAMPERS IN DUCTWORK AT ALL LOCATIONS WHERE DUCTS PASS THROUGH FIRE RATED ASSEMBLY. PROVIDE AND LOCATE ALL FIRE AND SMOKE DAMPERS. COORDINATE CONSTRUCTION REQUIREMENTS WITH ALL TRADES.
14. LOCATION OF ALL GRILLES, REGISTERS, DIFFUSERS AND CEILING DEVICES SHALL BE DETERMINED FROM THE ARCHITECTURAL REFLECTED CEILING PLANS AND WALL SECTIONS. COORDINATE ALL CEILING DIFFUSERS AND GRILLE LOCATIONS WITH LOCATION OF LIGHTS.
15. ALL DUCTWORK SHALL BE SHEET METAL FABRICATED IN ACCORDANCE WITH SMACNA STANDARDS. SEAL ALL SEAMS WITH MASTIC DESIGNED FOR USE ON METAL DUCT, GLASS FIBER DUCT BOARD, AND FLEXIBLE DUCT. MASTIC SHALL BE UL 181 LISTED FOR THE APPLICATION USED.
16. INSTALL DX PIPING AS SPECIFIED, INCLUDING FILTER/DRYER, SIGHT GLASS, ISOLATION/CHARGING VALVES AND ALL APPURTENANCES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL BE ACCOMPLISHED IN A NEAT AND ORDERLY FASHION, AS APPROVED BY THE ENGINEER. COORDINATE FOR ROUTING OF DX PIPING, UP INSIDE OF WALLS, ETC. AS REQUIRED, TERMINATING AT AHU's. PROVIDE BRACING/ISOLATION, AS REQUIRED TO PREVENT VIBRATION OF DX PIPING INSIDE WALLS, ETC. SIZE, ROUTE AND INSULATE DX PIPING PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATION REQUIREMENTS.
17. PROVIDE VIBRATION ISOLATORS FOR MOTOR DRIVEN EQUIPMENT UNLESS NOTED OTHERWISE. PROVIDE ISOLATION AS INDICATED OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
18. SOME PIPES AND DUCTS SHOWN ON EACH FLOOR PLAN MAY BE SHOWN WITH AN OFFSET FOR CLARITY.
19. SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING MATERIAL.
20. ALL EQUIPMENT SHALL HAVE IDENTIFICATION TAGS. TAGS SHALL BE PLASTIC LAMINATE, WHITE FACE WITH 1/2" TALL BLACK LETTERS. THE TAG SHALL MATCH THE UNIT DESIGNATIONS SHOWN ON THE SCHEDULES.
21. EXPAND OR REDUCE DUCTS AT EQUIPMENT CONNECTIONS BASED ON THE EQUIPMENT PURCHASED, WITH TRANSITIONS NOT TO EXCEED 30 DEGREES. SIZES SHOWN ON SCHEDULES, ETC. ARE FOR GUIDANCE ONLY. ASPECT RATIO SHALL BE NO GREATER THAN 4:1, PER SMACNA'S GUIDELINES.
22. ALL DUCTS WITH A DIMENSION GREATER THAN 12" PASSING THRU A NONRATED WALL SHALL HAVE THE OPENING FRAMED IN WITH METAL STUDS. COORDINATE OPENING SIZE AND LOCATION WITH OTHER TRADES.

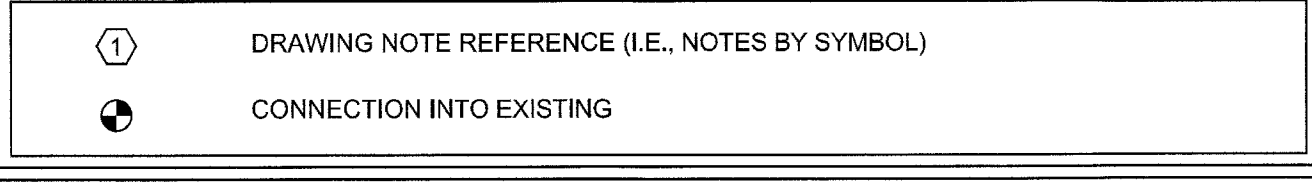
ABBREVIATIONS

AD	ACCESS DOOR	KW	KILOWATT
A/C	AIR CONDITIONING UNIT	L	LENGTH
A/E	ARCHITECT/ENGINEER	LAT	LEAVING AIR TEMPERATURE
AFF	ABOVE FINISHED FLOOR	LPC	LOW PRESSURE CONDENSATE
AFS	AIR FLOW SWITCH	LPS	LOW PRESSURE STEAM
AHU	AIR HANDLING UNIT	LB	POUNDS
APPROX	APPROXIMATE	LRA	LOCKED ROTOR AMPS
BAS	BUILDING AUTOMATION SYSTEM	LWT	LEAVING WATER TEMPERATURE
BHP	BRAKE HORSE POWER	MAX	MAXIMUM
BTU	BRITISH THERMAL UNIT PER HOUR	MBH	1000 BRITISH THERMAL UNITS / HOUR
C/A	COMBUSTION AIR	MCA	MINIMUM CIRCUIT AMPACITY
CC	COOLING COIL	MFR	MANUFACTURER
CFH	CUBIC FEET PER HOUR	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	N/A	NOT APPLICABLE
CLG	CEILING	N/O,N/C	NORMALLY OPEN, NORMALLY CLOSED
CU	CONDENSING UNIT	O/A	OUTSIDE AIR/FRESH AIR
D	EQUIPMENT DRAIN	OB/D	OPPOSED BLADE DAMPER
DEG	DEGREES	O/C	ON CENTER
DB	DRY BULB	PEF	PURGE EXHAUST FAN
DN	DOWN	PH	PHASE
(E)	EXISTING	PROVIDE	FURNISH AND INSTALL
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
E/A	EXHAUST AIR	PSI	POUNDS PER SQUARE INCH
EDH	ELECTRIC DUCT HEATER	R/A	RETURN AIR
EF	EXHAUST FAN	RE	REFERENCE, REFER
EQUIP	EQUIPMENT	RL	REFRIGERANT LIQUID
EWT	ENTERING WATER TEMPERATURE	RLA	RUNNING LOAD AMPS
°F	DEGREES FAHRENHEIT	RM	ROOM
FCU	FAN COIL UNIT	RFM	REVOLUTIONS PER MINUTE
FD	FIRE DAMPER	RS	REFRIGERANT SUCTION
FLA	FULL LOAD AMPS	SA	SUPPLY AIR
FLR	FLOOR	SD	SMOKE DETECTOR
FPVAV	FAN POWERED VAV	SF	SQUARE FOOT, SUPPLY FAN
FSD	FIRE SMOKE DAMPER	SPECS	SPECIFICATIONS
FT	FOOT, FEET	T, TSTAT	THERMOSTAT, ROOM SENSOR
FT, WG	FEET WATER GAUGE	T/A	TRANSFER AIR
GA	U.S. GAUGE	THRU	THROUGH
GPM	GALLONS PER MINUTE	TSP	TOTAL STATIC PRESSURE
H	HEIGHT	TSTAT	THERMOSTAT OR ROOM SENSOR
HP	HORSEPOWER	TYP	TYPICAL
HPC	HIGH PRESSURE CONDENSATE	UL	UNDERWRITERS LABORATORIES, INC.
HPS	HIGH PRESSURE STEAM	UH	UNIT HEATER
HWR	HEATING WATER RETURN	V	VOLTS
HWS	HEATING WATER SUPPLY	VAV	VARIABLE AIR VOLUME
HZ	HERTZ	VEL	VELOCITY
IN.	INCH, INCHES	VFD	VARIABLE FREQUENCY DRIVE
IN.WG	INCHES WATER GAUGE	W	WITH
IOM	INSTALLATION/OPERATION MANUAL	WB	WET BULB
J-BOX	JUNCTION BOX	W/O	WITHOUT

DRAWING/DETAIL REFERENCE



MISCELLANEOUS



BASIS OF MECHANICAL DESIGN

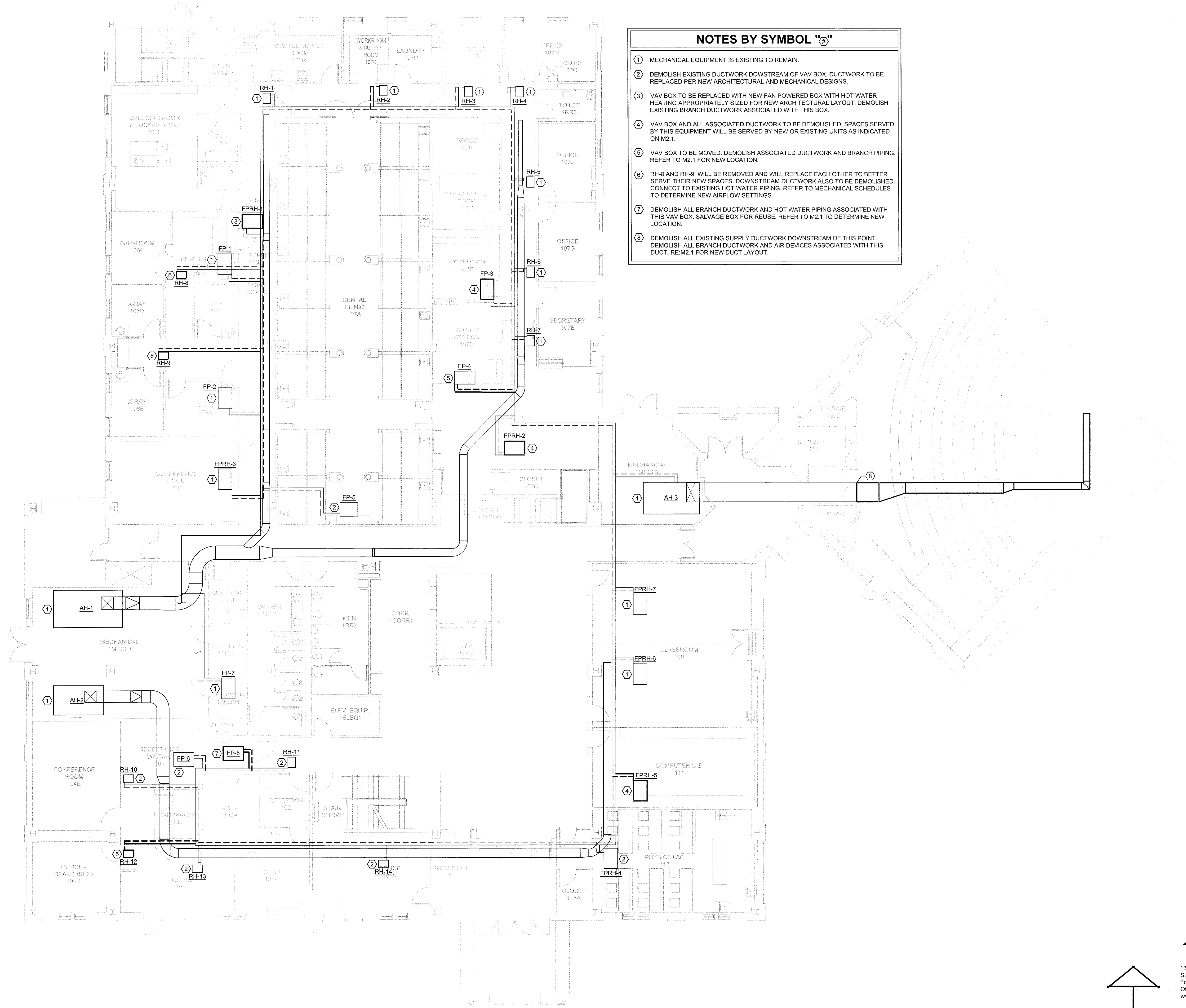
PRIMARY MECHANICAL CODES:
 MECHANICAL: 2015 INTERNATIONAL MECHANICAL CODE (WITH CITY AMENDMENTS).
 MECHANICAL: 2015 INTERNATIONAL MECHANICAL CODE (WITH CITY AMENDMENTS).
PROJECT DESIGN VALUES:
 OUTDOOR DESIGN TEMPERATURE (SUMMER): 103.8°F (DRYBULB), 72.6°F (WETBULB)
 AMBIENT TEMPERATURE AT CONDENSING UNITS: 105°F (DRYBULB, SUMMER)
 OUTDOOR DESIGN TEMPERATURE (WINTER): 18.6°F (DRYBULB)
 INDOOR DESIGN TEMPERATURE (SUMMER): 75°F (DRYBULB), 50% (RELATIVE HUMIDITY)
 INDOOR DESIGN TEMPERATURE (WINTER): 70°F (DRYBULB)
 OUTSIDE AIR REQUIREMENTS: PER IMC TABLE 403.3

SYMBOLS

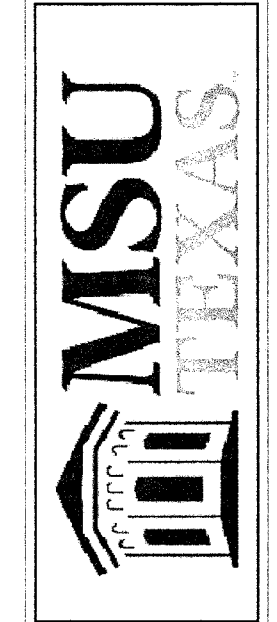
SYMBOL	DESCRIPTION
	ACOUSTICAL DUCT LINING (FIGURES SHOWN ARE INSIDE DUCT DIMENSIONS)
	SUPPLY AIR DUCT UP (POSITIVE PRESSURE)
	RETURN, EXHAUST OR OUTSIDE AIR INTAKE DUCT UP (NEGATIVE PRESSURE)
	SUPPLY AIR DUCT DOWN (POSITIVE PRESSURE)
	RETURN, EXHAUST OR OUTSIDE AIR INTAKE DUCT DOWN (NEGATIVE PRESSURE)

SHEET SIZE = ARCHD 24X36

- NOTES BY SYMBOL "#"**
- ① MECHANICAL EQUIPMENT IS EXISTING TO REMAIN.
 - ② DEMOLISH EXISTING DUCTWORK DOWNSTREAM OF VAV BOX. DUCTWORK TO BE REPLACED PER NEW ARCHITECTURAL AND MECHANICAL DESIGNS.
 - ③ VAV BOX TO BE REPLACED WITH NEW FAN POWERED BOX WITH HOT WATER HEATING APPROPRIATELY SIZED FOR NEW ARCHITECTURAL LAYOUT. DEMOLISH EXISTING BRANCH DUCTWORK ASSOCIATED WITH THIS BOX.
 - ④ VAV BOX AND ALL ASSOCIATED DUCTWORK TO BE DEMOLISHED. SPACES SERVED BY THIS EQUIPMENT WILL BE SERVED BY NEW OR EXISTING UNITS AS INDICATED ON M2.1.
 - ⑤ VAV BOX TO BE MOVED. DEMOLISH ASSOCIATED DUCTWORK AND BRANCH PIPING. REFER TO M2.1 FOR NEW LOCATION.
 - ⑥ RH-8 AND RH-9 WILL BE REMOVED AND WILL REPLACE EACH OTHER TO BETTER SERVE THEIR NEW SPACES. DOWNSTREAM DUCTWORK ALSO TO BE DEMOLISHED. CONNECT TO EXISTING HOT WATER PIPING. REFER TO MECHANICAL SCHEDULES TO DETERMINE NEW AIRFLOW SETTINGS.
 - ⑦ DEMOLISH ALL BRANCH DUCTWORK AND HOT WATER PIPING ASSOCIATED WITH THIS VAV BOX. SALVAGE BOX FOR REUSE. REFER TO M2.1 TO DETERMINE NEW LOCATION.
 - ⑧ DEMOLISH ALL EXISTING SUPPLY DUCTWORK DOWNSTREAM OF THIS POINT. DEMOLISH ALL BRANCH DUCTWORK AND AIR DEVICES ASSOCIATED WITH THIS DUCT. RE:M2.1 FOR NEW DUCT LAYOUT.



RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 WICHITA FALLS, TEXAS
 3410 TAFT BOULEVARD



APR 25 2019
 BRIAN D. RICHARDS
 74703
 LICENSED PROFESSIONAL ENGINEER
 1575.4.25.2019.18163

Summit
 CONSULTANTS, INC.
 Texas BPE Registration # F-207
 1300 Summit Avenue Suite 500 Fort Worth, Texas 76102
 4144 N. Central Expwy Suite 635 Dallas, Texas 75204
 Office 817.878.4242 Office 214.420.9111
 www.summitnep.com

DRAWN BY: _____
 DATE: 1 APRIL 2019
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NO.	DESCRIPTION	DATE

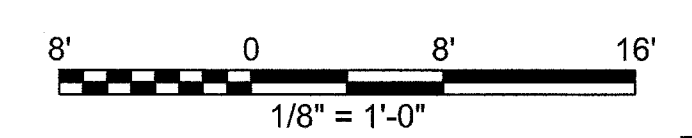
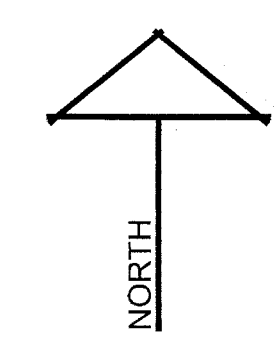
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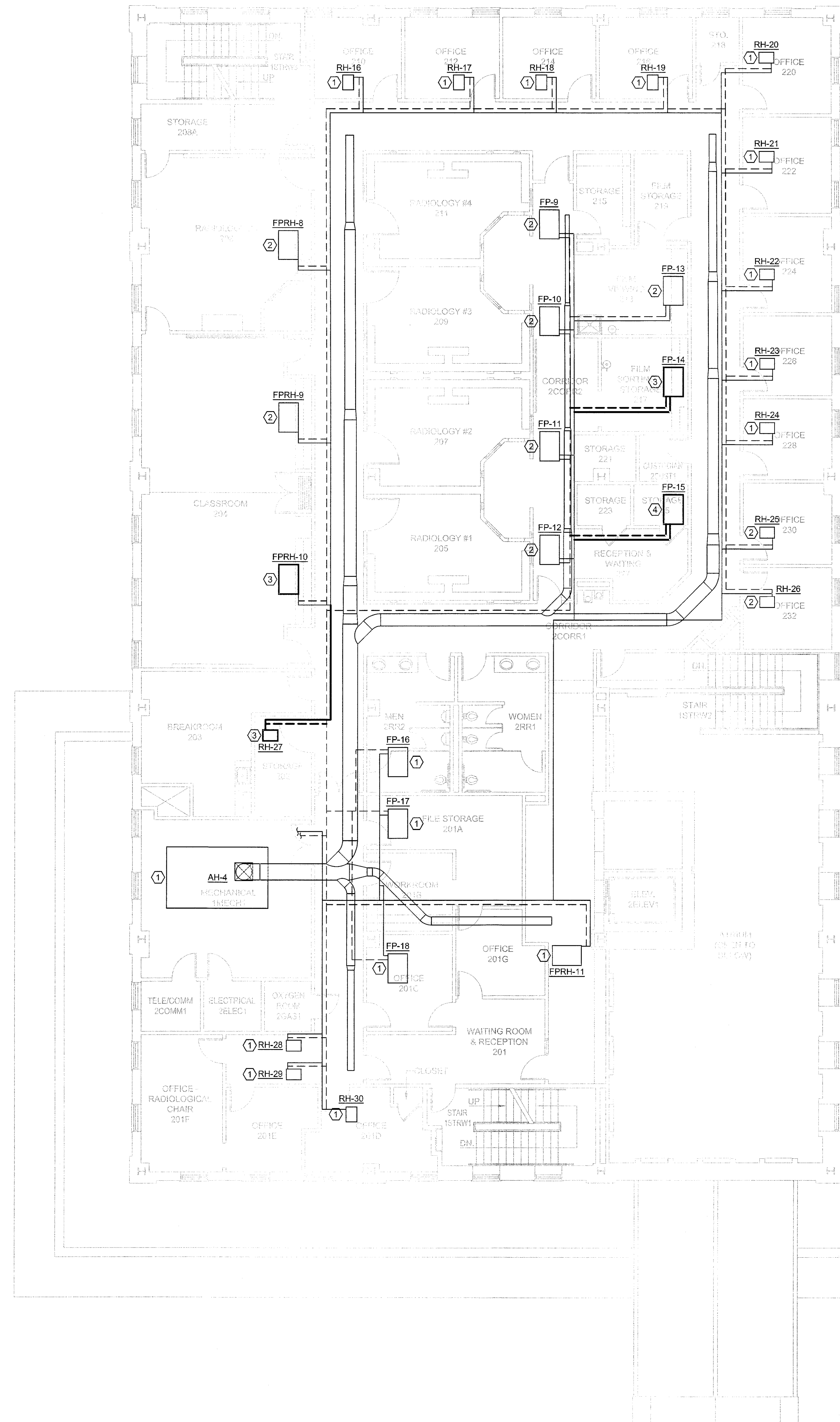
M1.1

FIRST FLOOR MECHANICAL DEMOLITION PLAN

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



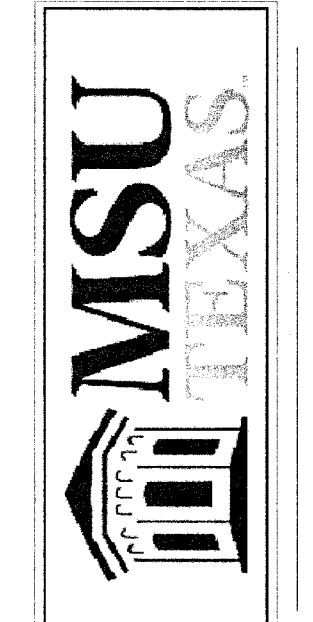
SHEET SIZE = ARCH D 24X36



- NOTES BY SYMBOL "#"**
- ① MECHANICAL EQUIPMENT IS EXISTING TO REMAIN.
 - ② DEMOLISH EXISTING DUCTWORK DOWSTREAM OF VAV BOX. DUCTWORK TO BE REPLACED PER NEW ARCHITECTURAL AND MECHANICAL DESIGNS.
 - ③ VAV BOX AND ALL ASSOCIATED HOT WATER BRANCH PIPING AND DUCTWORK TO BE DEMOLISHED. SPACES SERVED BY THIS EQUIPMENT WILL BE SERVED BY NEW OR EXISTING UNITS AS INDICATED ON M2.2.
 - ④ REMOVE AND SALVAGE VAV BOX FOR REUSE. DEMOLISH ASSOCIATED DUCTWORK AND BRANCH HOT WATER PIPING UP TO DUCT MAINS AND PIPE MAINS. RESPECTIVELY. REUSE VAV BOX AS INDICATED ON SCHEDULES.

GLENDA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 4/25/2019
HPA
 ARCHITECTS - PROGRAMMERS - PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76702-3599
 VOICE: 840.787.1421 FAX: 840.397.0273
 EMAIL: info@harperspa.com WEB: www.harperspa.com

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 CONSULTANTS, INC.
 Texas BPE Registration # F-207
 1300 Summit Avenue Suite 500 Fort Worth, Texas 76102
 4144 N. Central Expwy Suite 635 Dallas, Texas 75204
 Office 817.878.4242 Office 214.420.9111
 www.summitmep.com

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DATE: 1 APRIL 2019

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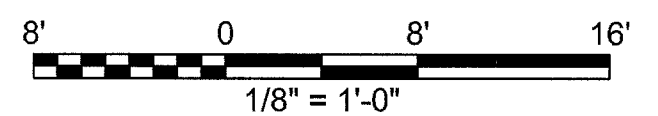
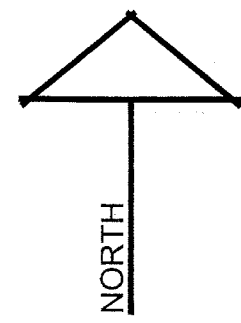
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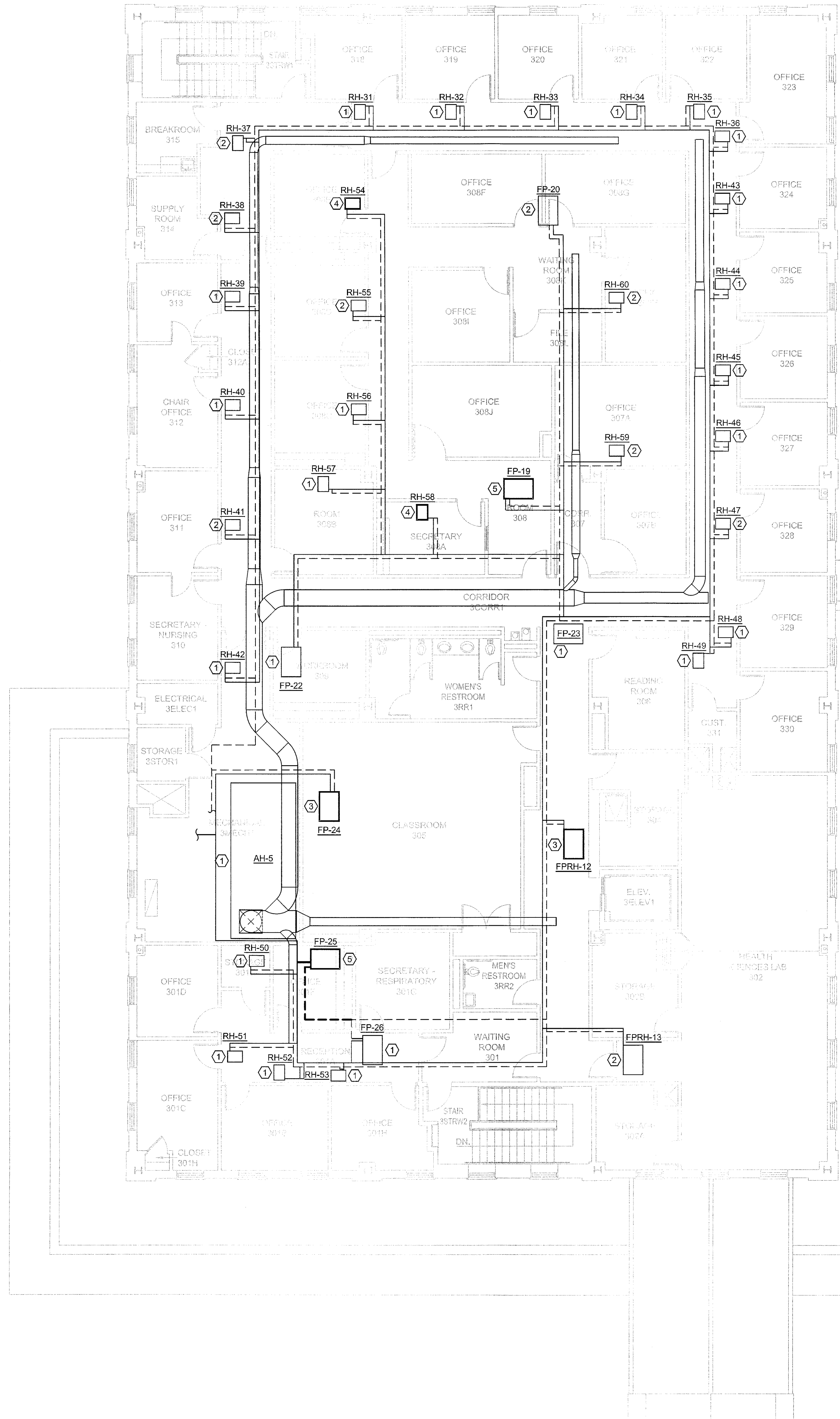
SECOND FLOOR MECHANICAL DEMOLITION PLAN

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



M1.2

SHEET SIZE = ARCH D 24x36



GENERAL NOTES

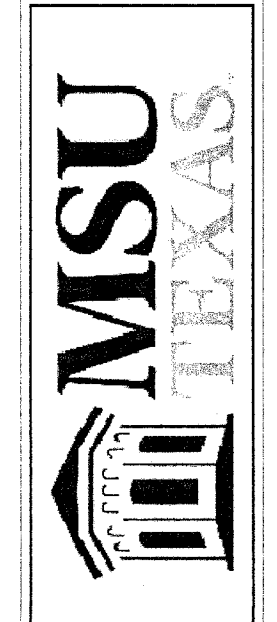
1. RH-54 THRU 60 ARE HOT WATER REHEAT COILS THAT WERE PREVIOUSLY REFERRED TO AS RH-1 THRU 7, RESPECTIVELY, IN THE LATEST SET OF EXISTING MECHANICAL DRAWINGS. UPDATE UNIT TAGS AS INDICATED TO AVOID DUPLICATE LABELS.

NOTES BY SYMBOL "#"

- ① MECHANICAL EQUIPMENT IS EXISTING TO REMAIN.
- ② DEMOLISH EXISTING DUCTWORK DOWSTREAM OF VAV BOX. DUCTWORK TO BE REPLACED PER NEW ARCHITECTURAL AND MECHANICAL DESIGNS.
- ③ VAV BOX TO BE REPLACED WITH NEW FAN POWERED BOX WITH HOT WATER HEATING APPROPRIATELY SIZED FOR NEW ARCHITECTURAL LAYOUT. DEMOLISH EXISTING BRANCH DUCTWORK DOWSTREAM OF THIS BOX. RETAIN INLET DUCTWORK AND BRANCH PIPE FOR REPLACEMENT BOX.
- ④ VAV BOX AND ALL ASSOCIATED HOT WATER BRANCH PIPING AND DUCTWORK TO BE DEMOLISHED. SPACES SERVED BY THIS EQUIPMENT WILL BE SERVED BY NEW OR EXISTING UNITS AS INDICATED ON M2.3.
- ⑤ DEMOLISH EXISTING VAV BOX AND ALL ASSOCIATED DUCTWORK AND AIR DEVICES DOWSTREAM OF UNIT. DEMOLISH 6"Ø INLET DUCTWORK UP TO SUPPLY DUCT MAIN.

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 ARCHITECTS - PROGRAMMERS - PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 840.767.1421 FAX: 840.387.0273
 EMAIL: glg@hpaengineers.com WEB: www.hpaengineers.com

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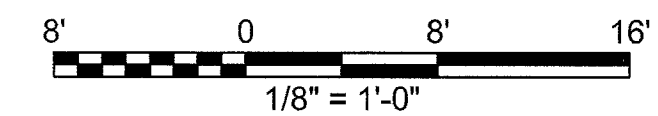
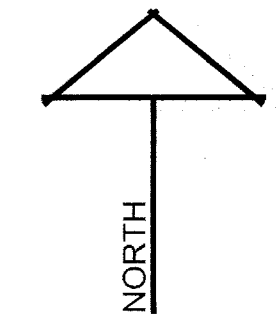
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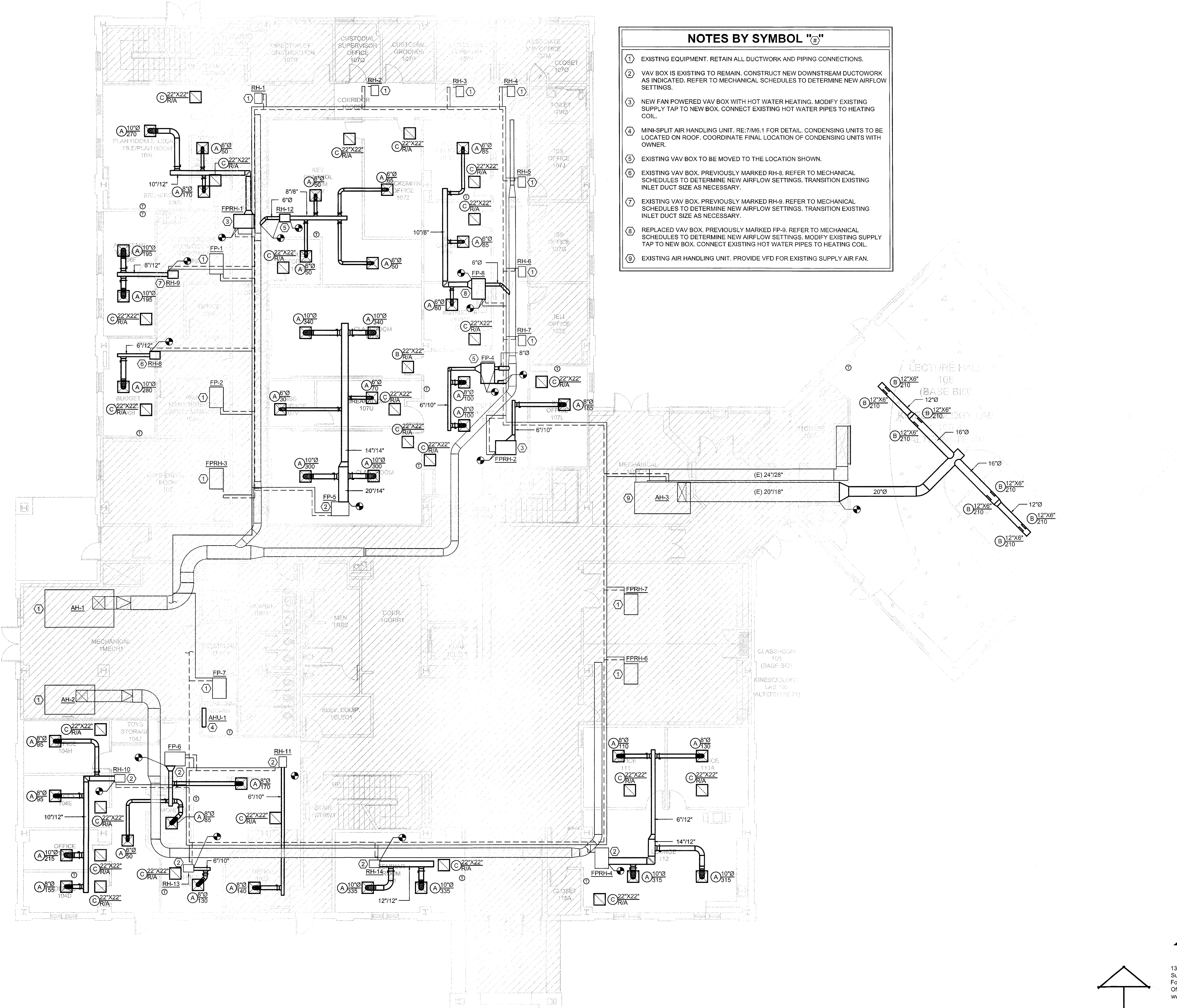
M1.3

THIRD FLOOR MECHANICAL DEMOLITION PLAN

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

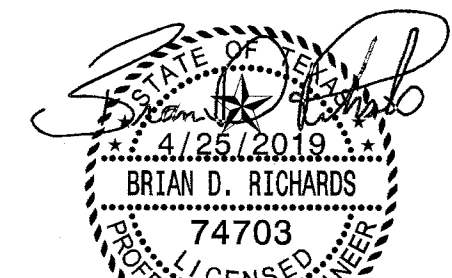


- NOTES BY SYMBOL "#"**
- EXISTING EQUIPMENT. RETAIN ALL DUCTWORK AND PIPING CONNECTIONS.
 - VAV BOX IS EXISTING TO REMAIN. CONSTRUCT NEW DOWNSTREAM DUCTWORK AS INDICATED. REFER TO MECHANICAL SCHEDULES TO DETERMINE NEW AIRFLOW SETTINGS.
 - NEW FAN POWERED VAV BOX WITH HOT WATER HEATING. MODIFY EXISTING SUPPLY TAP TO NEW BOX. CONNECT EXISTING HOT WATER PIPES TO HEATING COIL.
 - MINI-SPLIT AIR HANDLING UNIT. RE:7/M6.1 FOR DETAIL. CONDENSING UNITS TO BE LOCATED ON ROOF. COORDINATE FINAL LOCATION OF CONDENSING UNITS WITH OWNER.
 - EXISTING VAV BOX TO BE MOVED TO THE LOCATION SHOWN.
 - EXISTING VAV BOX. PREVIOUSLY MARKED RH-8. REFER TO MECHANICAL SCHEDULES TO DETERMINE NEW AIRFLOW SETTINGS. TRANSITION EXISTING INLET DUCT SIZE AS NECESSARY.
 - EXISTING VAV BOX. PREVIOUSLY MARKED RH-9. REFER TO MECHANICAL SCHEDULES TO DETERMINE NEW AIRFLOW SETTINGS. TRANSITION EXISTING INLET DUCT SIZE AS NECESSARY.
 - REPLACED VAV BOX. PREVIOUSLY MARKED FP-9. REFER TO MECHANICAL SCHEDULES TO DETERMINE NEW AIRFLOW SETTINGS. MODIFY EXISTING SUPPLY TAP TO NEW BOX. CONNECT EXISTING HOT WATER PIPES TO HEATING COIL.
 - EXISTING AIR HANDLING UNIT. PROVIDE VFD FOR EXISTING SUPPLY AIR FAN.



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 BRIAN D. RICHARDS
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 Summit CONSULTANTS, INC.
 Texas BPE Registration # F-207
 1300 Summit Avenue Suite 500 Fort Worth, Texas 76102
 Office 817.878.4242 www.summitmep.com
 4144 N. Central Expwy Suite 635 Dallas, Texas 75204
 Office 214.420.9111

DRAWN BY: _____

DATE: 1 APRIL 2019

REVISIONS		
NO.	DESCRIPTION	DATE

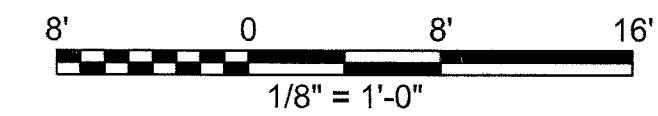
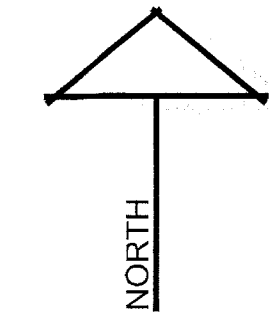
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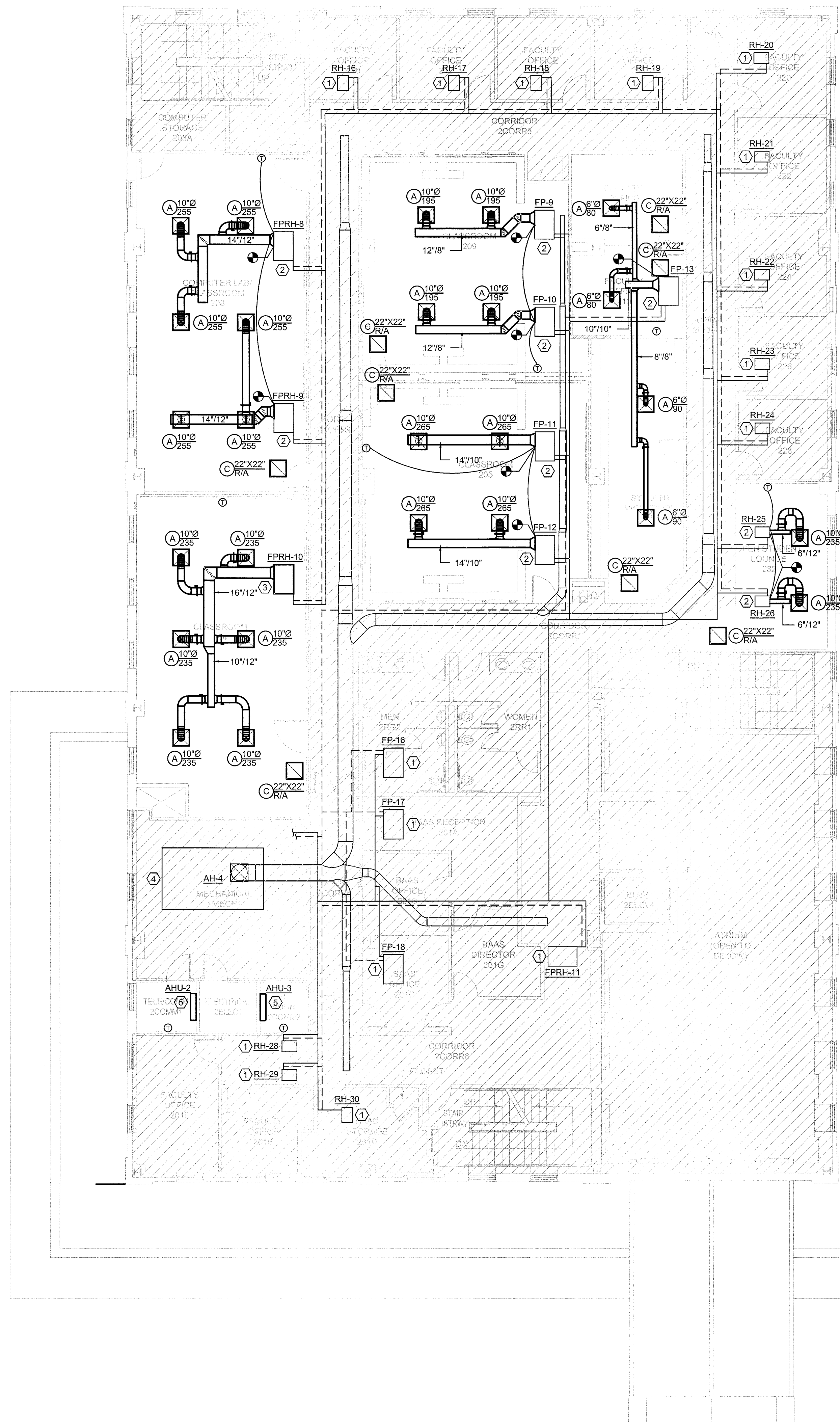
M2.1

FIRST FLOOR MECHANICAL PLAN

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



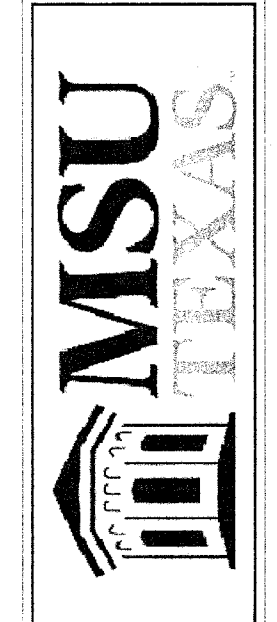
SHEET SIZE ARCHD 24X36



- NOTES BY SYMBOL "E"**
- EXISTING EQUIPMENT. RETAIN ALL DUCTWORK AND PIPING CONNECTIONS.
 - VAV BOX IS EXISTING TO REMAIN. CONSTRUCT NEW DOWNSTREAM DUCTWORK AS INDICATED.
 - NEW FAN POWERED VAV BOX WITH HOT WATER HEATING.
 - EXISTING AIR HANDLING UNIT.
 - MINI-SPLIT AIR HANDLING UNIT, RE:7/M6.1 FOR DETAIL. CONDENSING UNITS TO BE LOCATED ON ROOF. COORDINATE FINAL LOCATION OF CONDENSING UNITS WITH OWNER.

REGISTERED ARCHITECT
 STATE OF TEXAS
 #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 4.20.19
HPA
 ARCHITECTS - PROGRAMMERS - PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 840.767.1421 FAX: 840.397.0273
 EMAIL: info@harperperkins.com WEB: www.harperperkins.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 WICHITA FALLS, TEXAS
 3410 TAFT BOULEVARD



1575.4.25.2019.18163
 DRAWN BY:
 DATE: 1 APRIL 2019
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 NO. DESCRIPTION DATE

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 CONSULTANTS, INC.
 Texas BPE Registration # F-207
 1300 Summit Avenue Suite 500 4144 N. Central Expwy Suite 635
 Fort Worth, Texas 76102 Dallas, Texas 75204
 Office 817.878.4242 Office 214.420.9111
 www.summitmep.com

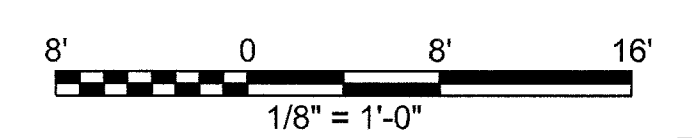
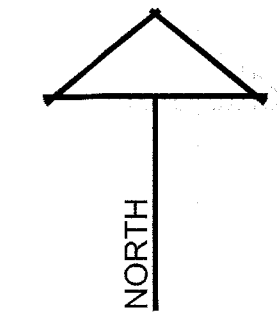
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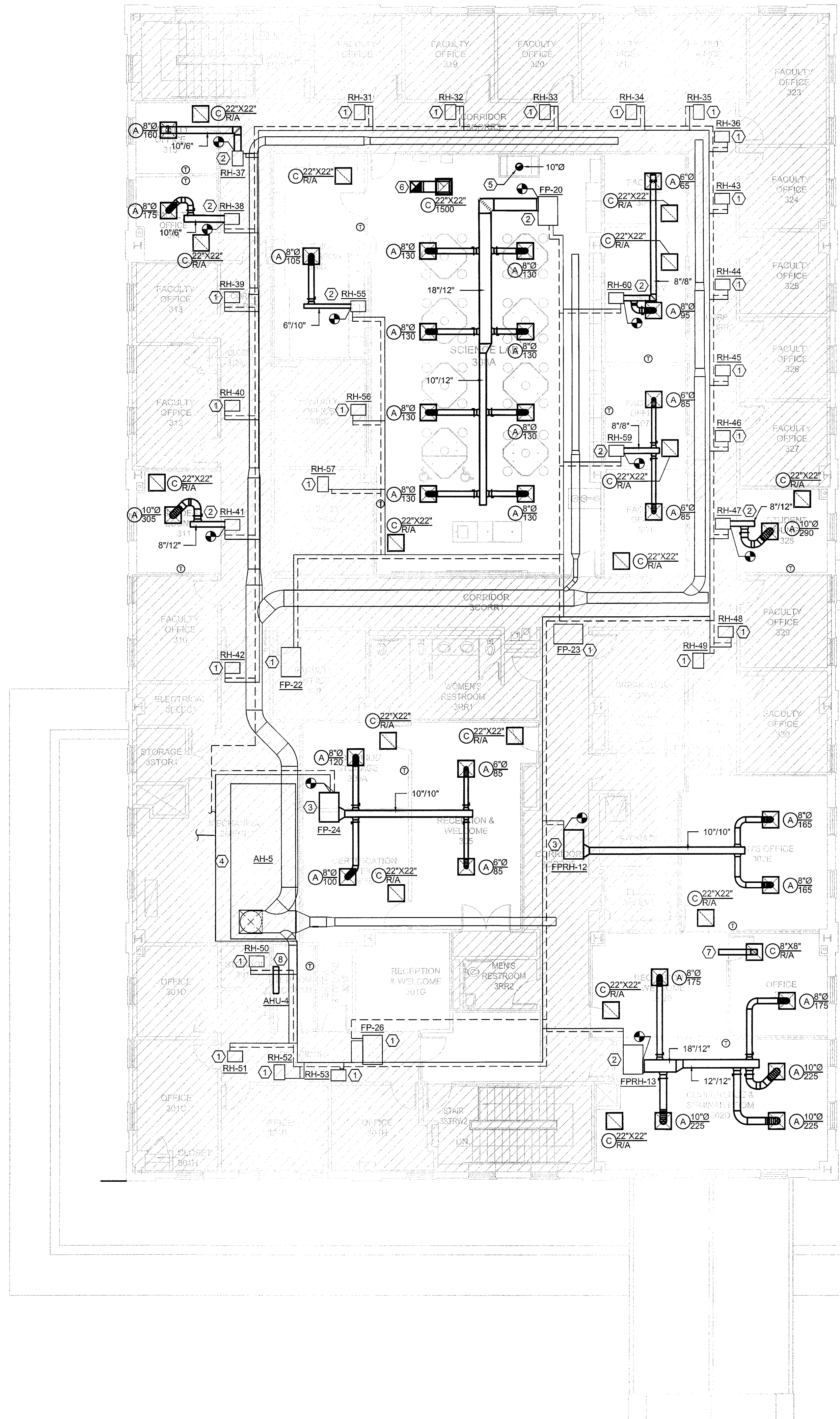
M2.2

SECOND FLOOR MECHANICAL PLAN

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



SHEET SIZE ARCHD 24X36



- NOTES BY SYMBOL "#"**
- ① EXISTING EQUIPMENT. RETAIN ALL DUCTWORK AND PIPING CONNECTIONS.
 - ② VAV BOX IS EXISTING TO REMAIN. CONSTRUCT NEW DOWNSTREAM DUCTWORK AS INDICATED.
 - ③ NEW FAN POWERED VAV BOX WITH HOT WATER HEATING. TRANSITION EXISTING INLET DUCT TO NEW VAV BOX INLET SIZE AS NECESSARY.
 - ④ EXISTING AIR HANDLING UNIT.
 - ⑤ LAB HOOD EXHAUST DUCT. LINE ENTIRE DUCT WITH PVC FOR CHEMICAL RESISTANCE. DUCT ROUTES TO EF-1 ON ROOF ABOVE. COORDINATE LOCATION OF FAN WITH OWNER PRIOR TO INSTALLATION. RE-4/M6.1 FOR DETAIL.
 - ⑥ EXHAUST DUCT ROUTES TO EF-2 ON ROOF ABOVE. COORDINATE FINAL LOCATION OF FAN WITH OWNER.
 - ⑦ TRANSFER AIR DUCT TO FACILITATE RETURN AIR PATH.
 - ⑧ MINI-SPLIT AIR HANDLING UNIT. RE-7/M6.1 FOR DETAIL. CONDENSING UNITS TO BE LOCATED ON ROOF. COORDINATE FINAL LOCATION OF CONDENSING UNITS WITH OWNER.

GLENDA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 4.20.19
HPA
 ARCHITECTS - PROGRAMMERS - PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 846.767.1421 FAX: 846.387.0273
 E-MAIL: ghr@hpaarchitects.com WEB: www.hpaarchitects.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 WICHITA FALLS, TEXAS
 3410 TAFT BOULEVARD



BRIAN D. RICHARDS
 74703
 LICENSED PROFESSIONAL ENGINEER
 1575.4.25.2019.18163

Summit
 CONSULTANTS, INC.
 Texas BPE Registration # F-207
 1300 Summit Avenue Suite 500 4144 N. Central Expwy
 Fort Worth, Texas 76102 Suite 635
 Office 817.878.4242 Dallas, Texas 75204
 www.summitnep.com Office 214.420.9111

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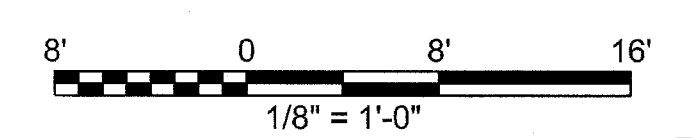
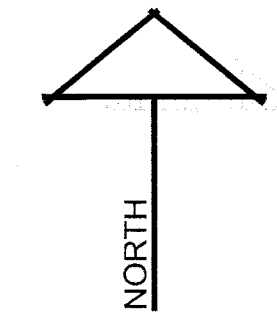
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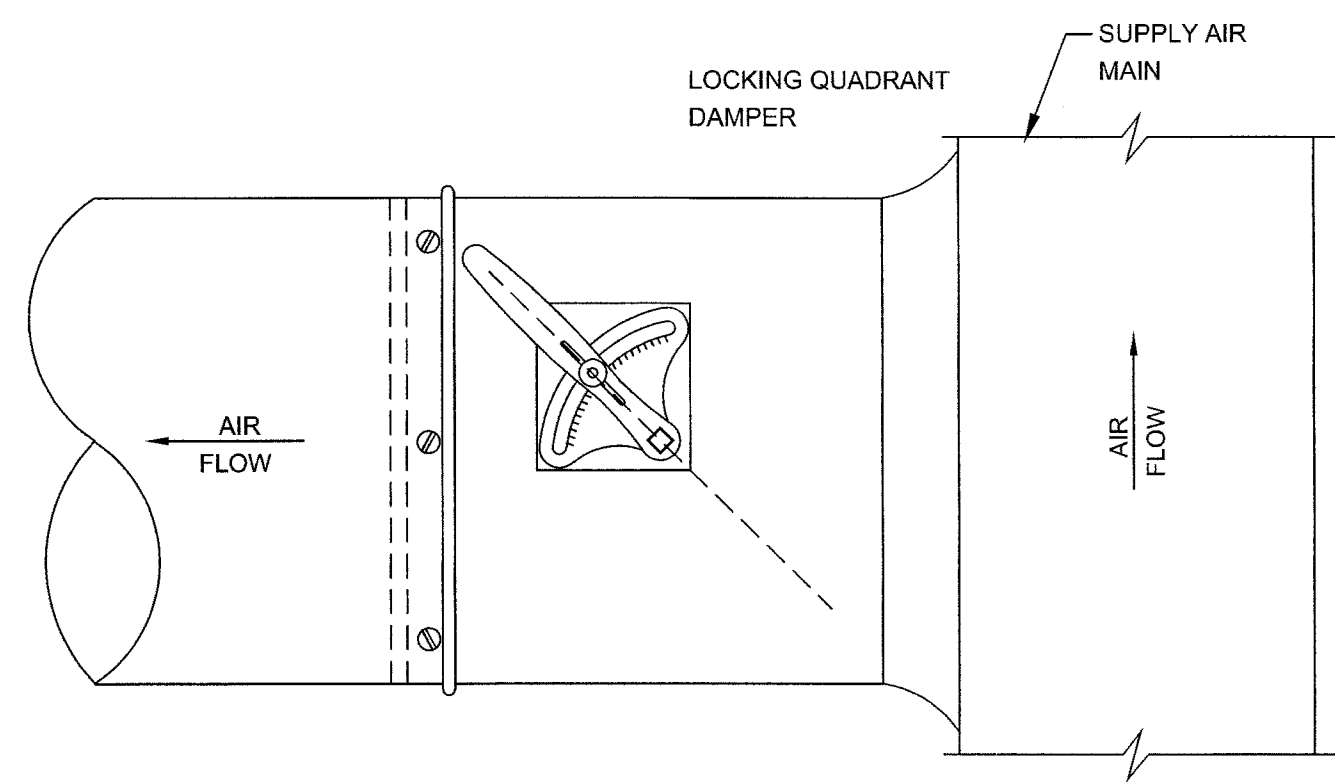
THIRD FLOOR MECHANICAL PLAN

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



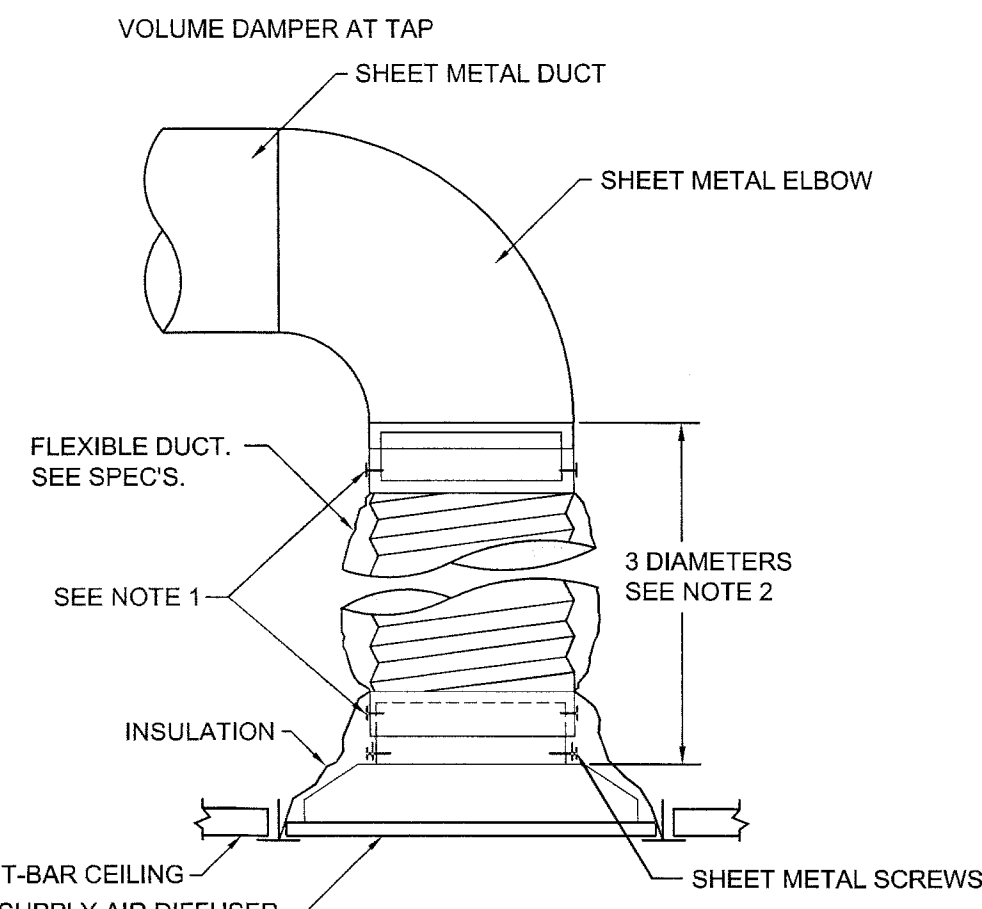
M2.3

SHEET SIZE # ARCHD 24X36



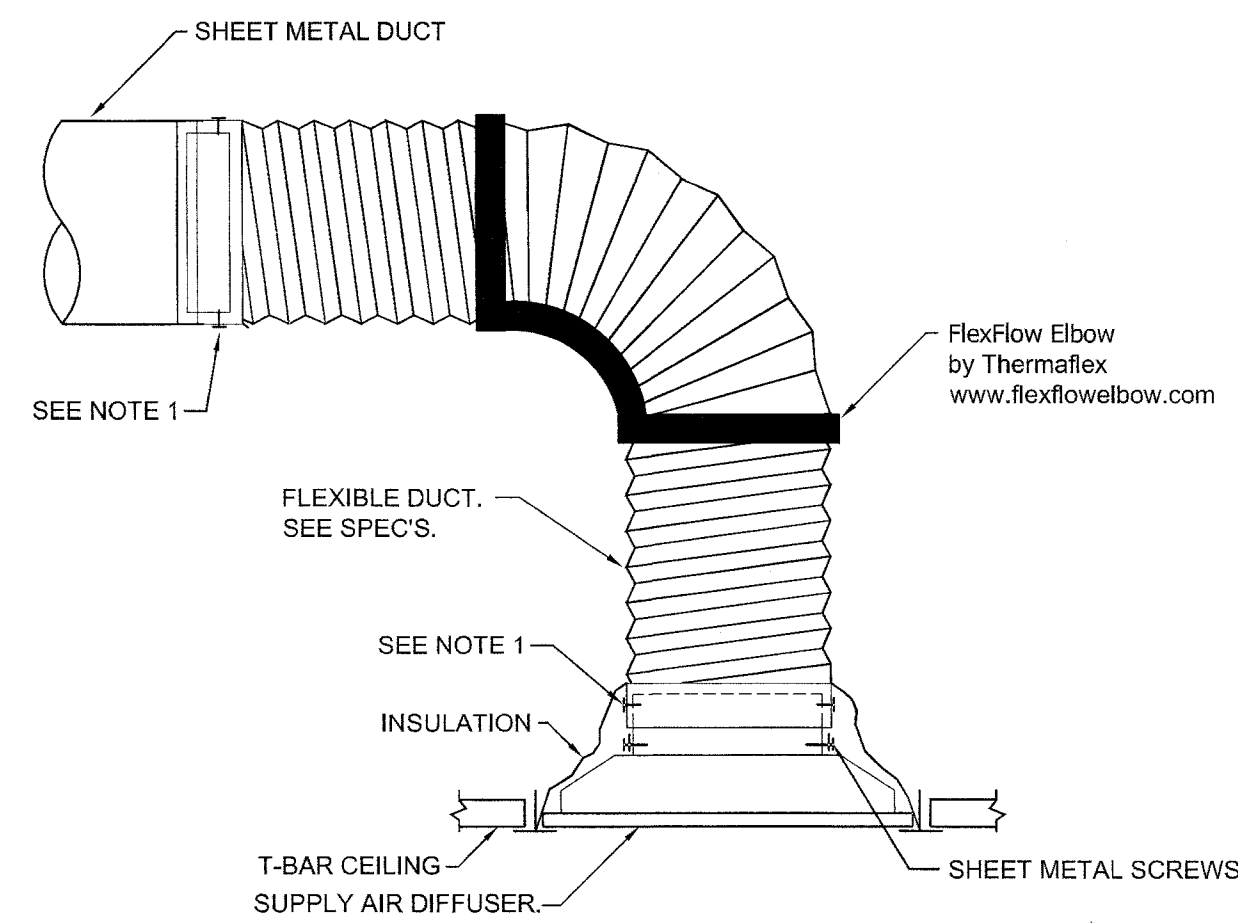
REQ'D AT EACH RUN-OUT TAP TO EVERY TERMINAL SUPPLY AIR DEVICE, AND OTHERWISE AS INDICATED.

1 TYPICAL CONICAL TAP WITH MANUAL DAMPER DETAIL
SCALE: NO SCALE

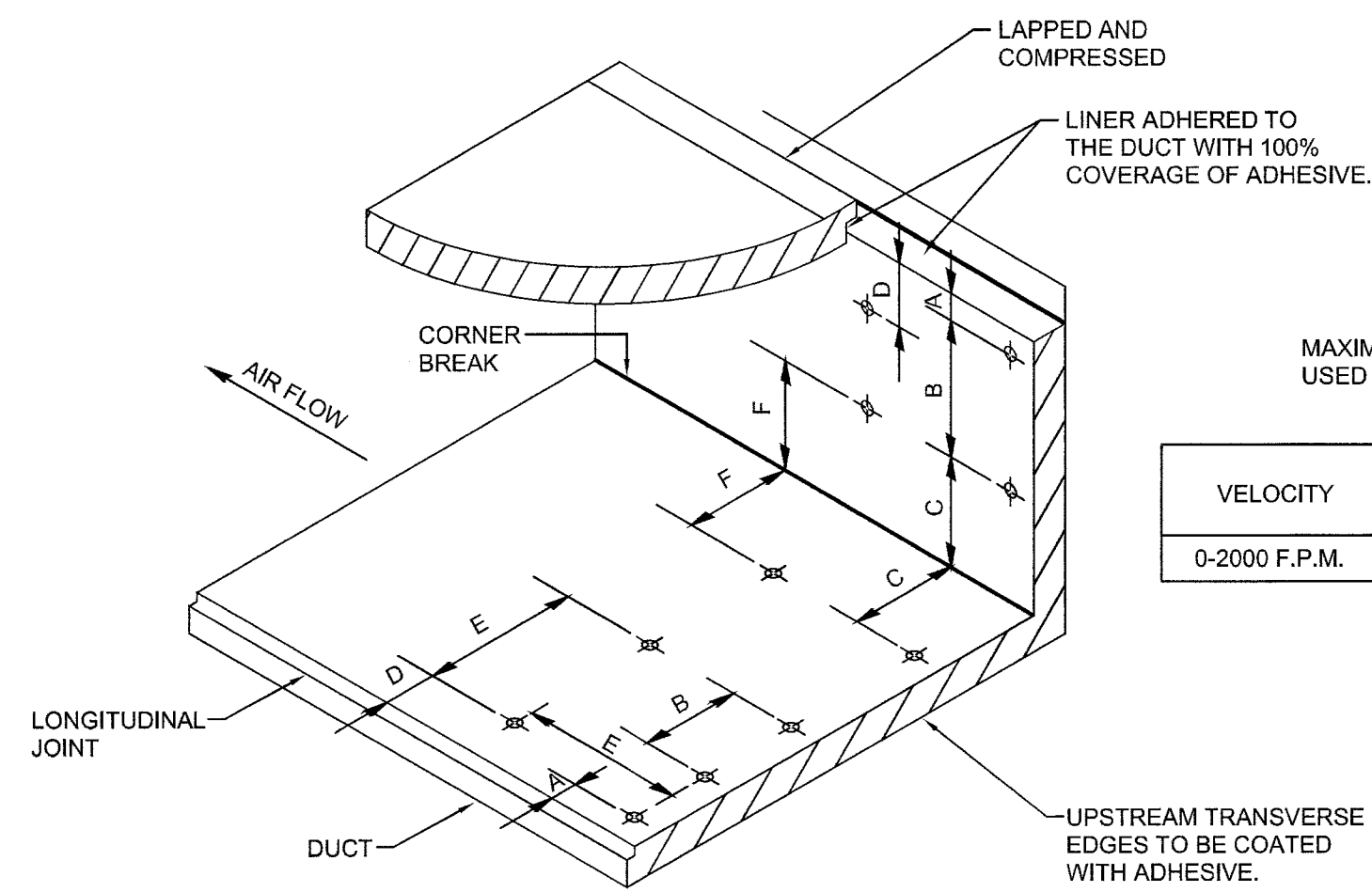


- NOTES:
- USE PLENUM COLLARS TO ATTACH FLEXIBLE DUCT. USE SHEET METAL SCREWS AND (2) WRAPS OF TAPE TO SECURE PLENUM COLLARS. ALTERNATE METHOD: BANDING DEVICE OR PANDUIT STRAP, IN LIEU OF SHEET METAL SCREWS. ALL TAPES AND SEALING MATERIALS SHALL COMPLY WITH UL181A FOR RIGID DUCT AND UL181B FOR FLEXIBLE DUCT.
 - SECURE SHEET METAL DROP TO DIFFUSER NECK WITH A MIN. OF (3) SHEET METAL SCREWS AND (2) FULL WRAPS OF TAPE PER UL REQUIREMENTS LISTED IN NOTE 1.
 - ALL FLEX DUCT SHALL BE INSTALLED WITHOUT KINKS, SAGGING, OR SHORT-RADIUS BENDS.
 - MAXIMUM OF 5 FEET OF FLEXIBLE DUCTWORK TO MAKE FINAL CONNECTION TO DIFFUSER.

2 TYPICAL FLEXDUCT CONNECTIONS
SCALE: NO SCALE



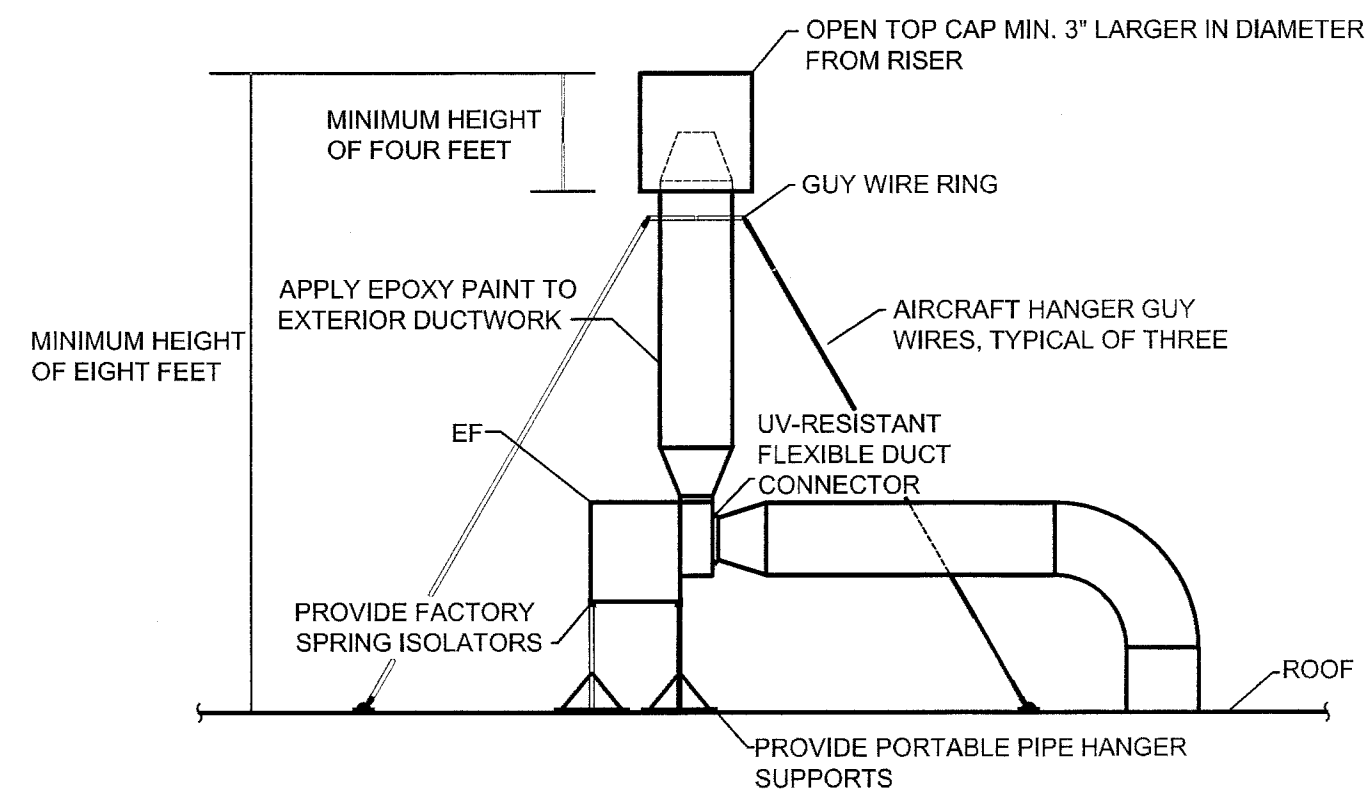
- NOTES:
- USE PLENUM COLLARS TO ATTACH FLEXIBLE DUCT. USE SHEET METAL SCREWS AND (2) WRAPS OF TAPE TO SECURE PLENUM COLLARS. ALTERNATE METHOD: BANDING DEVICE OR PANDUIT STRAP, IN LIEU OF SHEET METAL SCREWS. ALL TAPES AND SEALING MATERIALS SHALL COMPLY WITH UL181A FOR RIGID DUCT AND UL181B FOR FLEXIBLE DUCT.
 - IF A MINIMUM OF 2 DIAMETERS OF STRAIGHT RUN IS NOT AVAILABLE ABOVE THE REGISTER USE HARD DUCT SHORT RADIUS CONNECTION.
 - ALL FLEX DUCT SHALL BE INSTALLED WITHOUT KINKS, SAGGING, OR SHORT-RADIUS BENDS.
 - MAXIMUM OF 5 FEET OF FLEXIBLE DUCTWORK TO MAKE FINAL CONNECTION TO DIFFUSER.



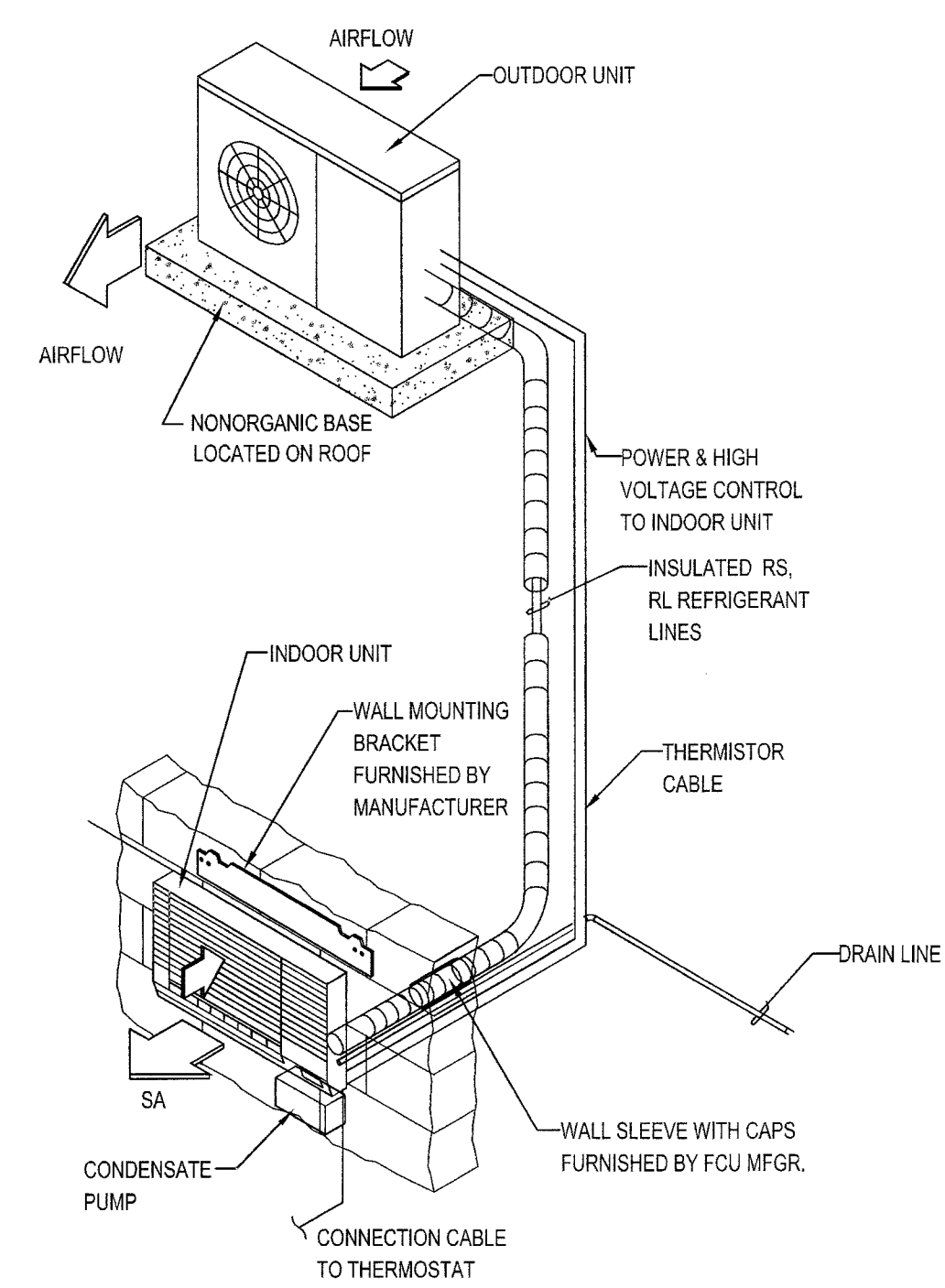
MAXIMUM SPACING FOR FASTENERS USED WITH FLEXIBLE DUCT LINER.

VELOCITY	UPSTREAM EDGE			MID-SECTION		
	A	B	C	D	E	F
0-2000 F.P.M.	3"	12"	12"	6"	18"	12"

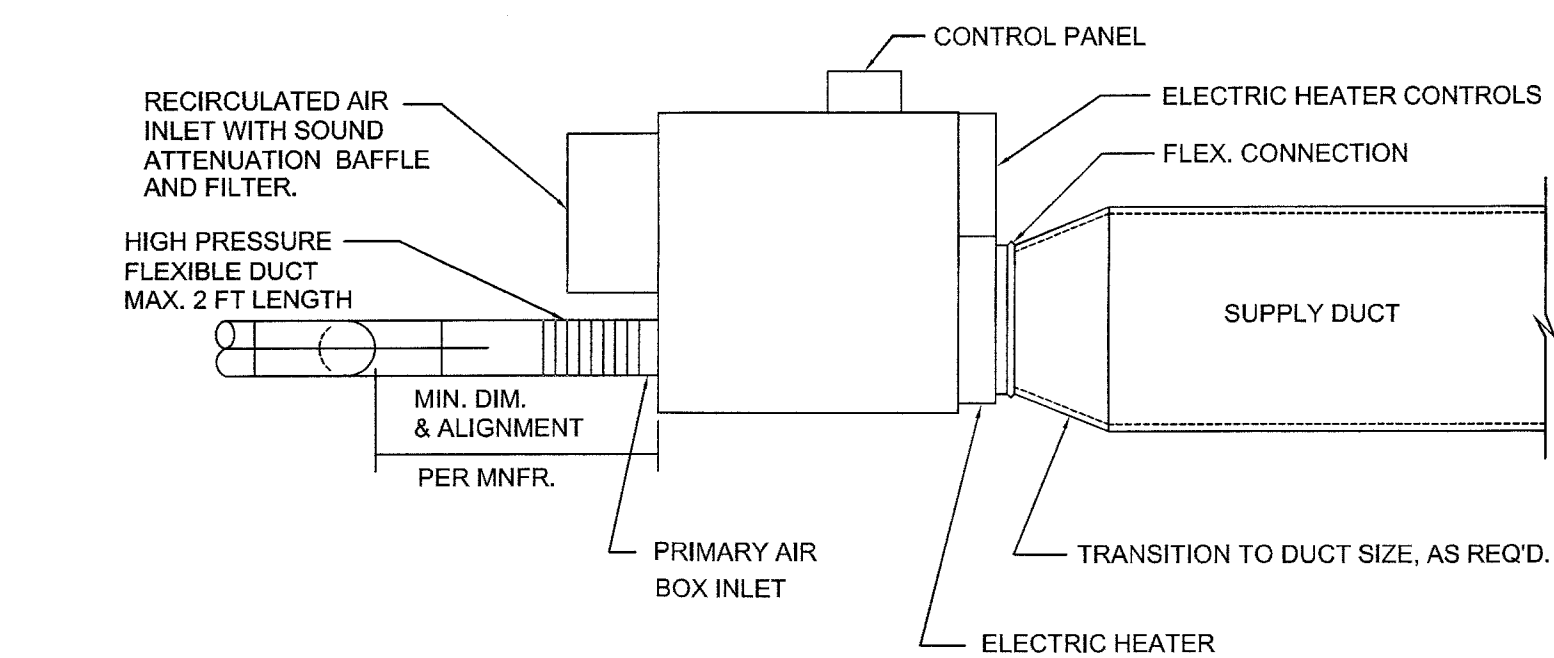
3 TYPICAL FLEXIBLE DUCT LINER INSTALLATION DETAIL
SCALE: NO SCALE



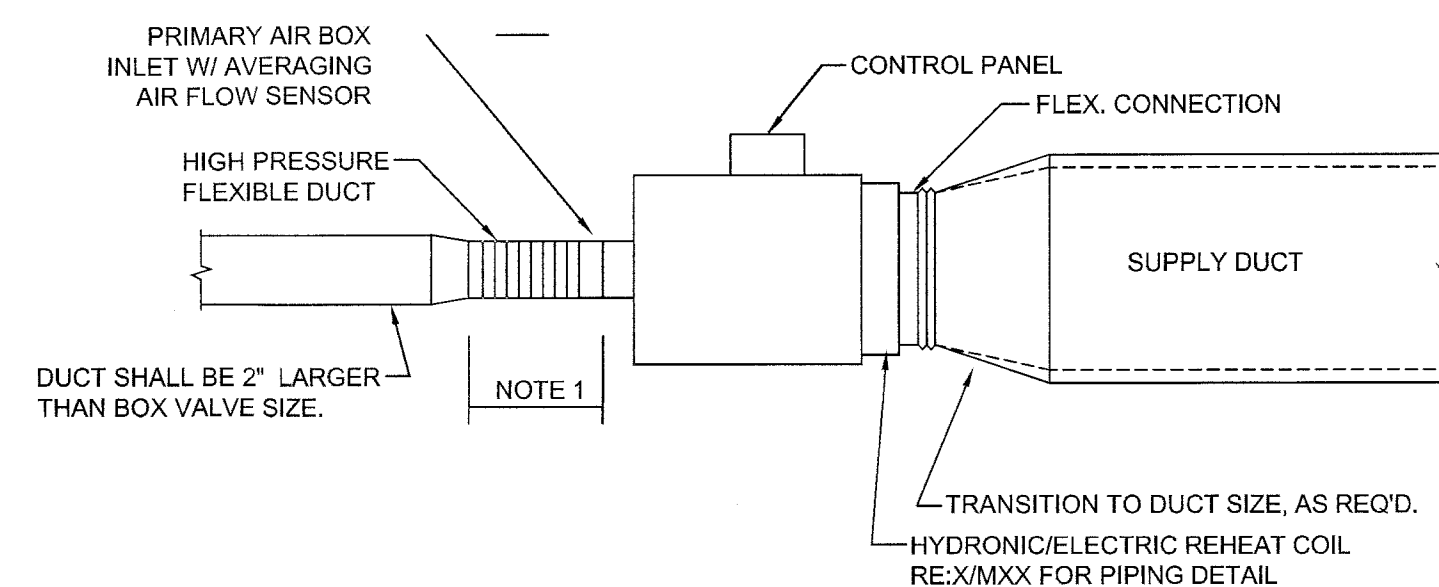
4 LAB HOOD EXHAUST FAN DETAIL
SCALE: NOT TO SCALE



7 TYPICAL DUCTLESS AIR CONDITIONER DETAIL
SCALE: NO SCALE



5 PARALLEL FAN POWERED VAV TERMINAL BOX
SCALE: NO SCALE



- NOTES:
- DUCT CONNECTION TO BE SAME SIZE AS INLET. WITH A MINIMUM STRAIGHT SECTION OF 30" OR AS RECOMMENDED BY MANUFACTURER. SECTION SHALL BE INSTALLED STRAIGHT WITHOUT KINKS OR BENDS.
 - STAINLESS STEEL CLAMPS SHALL BE USED TO SECURE FLEX DUCT.
 - SUPPORT BOX FROM STRUCTURE WITH ALL THREAD RODS.

6 TYPICAL SDVAV TERMINAL BOX
SCALE: NO SCALE

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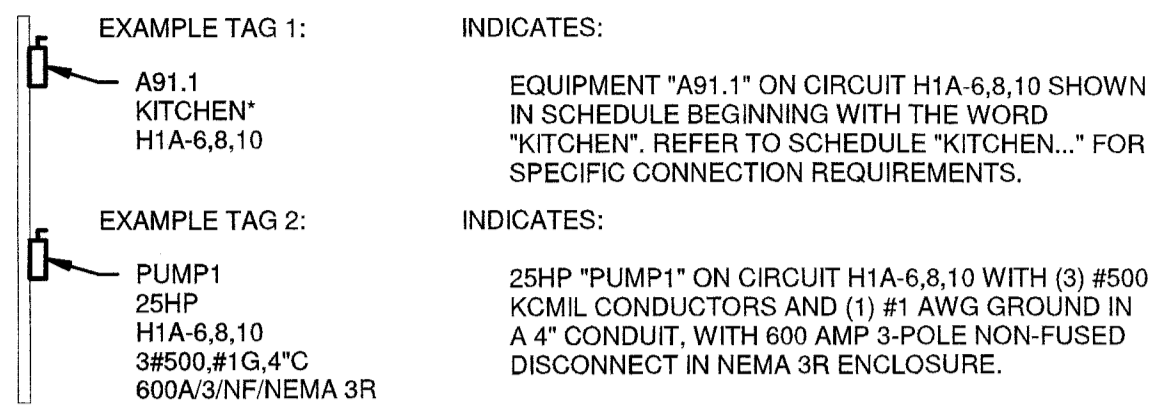
ELECTRICAL SYMBOLS AND ABBREVIATIONS

NOTE: ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

PLAN VIEW EXAMPLES

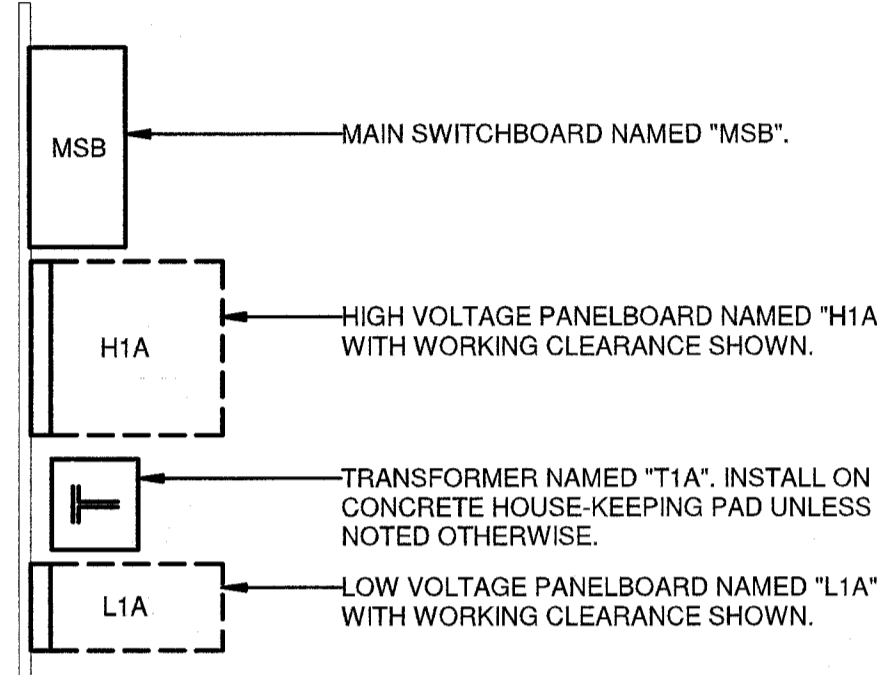
REFER TO DEVICE SYMBOL LEGENDS FOR ADDITIONAL POWER, DATA AND LIGHTING SYMBOLS.

DISCONNECT EXAMPLES



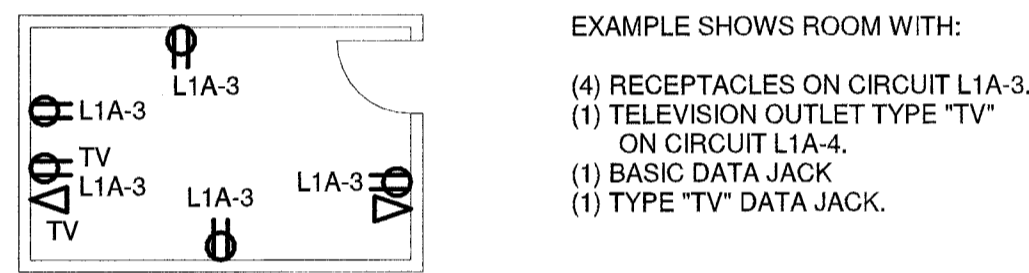
DISTRIBUTION EQUIPMENT EXAMPLES

REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM FOR MORE INFORMATION.



ROOM LAYOUT EXAMPLE

REFER TO SYMBOL LEGENDS FOR MORE INFORMATION.



ABBREVIATIONS

A	AMPS	MAX	MAXIMUM
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MCB	MAIN CIRCUIT BREAKER
AIC	AMPS INTERRUPTING CAPACITY	MIN	MINIMUM
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
BKR	CIRCUIT BREAKER	MOCOP	MAXIMUM OVERCURRENT PROTECTION
BLDG	BUILDING	N/A	NOT APPLICABLE
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CB	CIRCUIT BREAKER	NEMA	NATIONAL ELECTRICAL MANUF. ASSOC.
CKT	CIRCUIT	NMT	NON-METALLIC TUBING
DEG	DEGREES	NO	NUMBER
DISC	DISCONNECT	N/O	NORMALLY OPEN
EA	EACH	N/C	NORMALLY CLOSED
ENT	ELECTRICAL NON-METALLIC TUBING	O/C	ON CENTER
EPO	EMERGENCY POWER OFF	OCPD	OVERCURRENT PROTECTIVE DEVICE
FACP	FIRE ALARM CONTROL PANEL	PF	POWER FACTOR
FARA	FIRE ALARM REMOTE ANNUNCIATOR PANEL	PH	PHASE
FLA	FULL LOAD AMPS	RCPT	RECEPTACLE
FT	FEET	RE:	REFERENCE, REFER
G.GND	GROUND	RLA	RUNNING LOAD AMPS
GA	GAUGE	TGB	TELECOM GROUNDING BUS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTER	UF	UNDER FLOOR
HP	HORSEPOWER	UG	UNDER GROUND
HZ	HERTZ	U/S	UNDER SLAB
IER	INTEGRATED EQUIPMENT RATING	UL	UNDERWRITERS LABORATORIES
IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
IN	INCHES	UPS	UNINTERRUPTIBLE POWER SUPPLY
KCMIL	1000 CIRCULAR MILLS	VA	VOLT-AMPS
KV	KILOVOLTS	W/	WITH
KVA	KILOVOLT-AMPS	W/O	WITHOUT
KVAR	KILOVOLT-AMPS REACTIVE	WP	WEATHER PROOF IN USE ENCLOSURE
KW	KILOWATT	XFMR	TRANSFORMER
KWH	KILOWATT HOUR		
L	LENGTH		
LBS	POUNDS		
LCP	LIGHTING CONTROL PANEL		
LRA	LOCKED ROTOR AMPS		
LTG	LIGHTING		

ELECTRICAL GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
- REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS, WHERE THE ARCHITECT HAS DRAWN SUCH ELEVATIONS, FOR THE LOCATIONS OF ALL WALL MOUNTED DEVICES.
- COORDINATE THE EXACT LOCATION OF ALL THERMOSTATS, STARTERS, DISCONNECTS, ETC. AND COORDINATE ALL REQUIREMENTS FOR CONTROL AND POWER WIRING WITH THE MECHANICAL CONTRACTOR OR THE TRADE PROVIDING THE EQUIPMENT.
- ALL RECEPTACLE OUTLETS LOCATED WITHIN 6'-0" OF A WET BATH OR SINK SHALL BE GFI TYPE. ALL RECEPTACLE OUTLETS LOCATED OUTDOORS SHALL BE WPI/GFI. ALL RECEPTACLES SERVING VENDING MACHINES SHALL BE GFI TYPE. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE GFI TYPE.
- ALL CONDUIT PENETRATIONS THROUGH THE ROOF TO SERVE MECHANICAL EQUIPMENT SHALL BE WITHIN THE ASSOCIATED EQUIPMENT ROOF CURB. COORDINATE LOCATIONS OF PENETRATIONS WITH THE MECHANICAL CONTRACTOR.
- ALL DEVICE PLATE COLORS TO BE WHITE.
- PROVIDE ACCESS DOORS IN WALLS AND CEILINGS WHERE ACCESS TO CONCEALED ELECTRICAL BOXES AND DEVICES IS REQUIRED. ALL ACCESS LOCATIONS ARE TO BE APPROVED BY ARCHITECT PRIOR TO INSTALL.
- EACH BRANCH AND FEEDER CIRCUIT SHALL BE PROVIDED WITH A GROUND CONDUCTOR SIZED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NFPA 70), WHERE A CONDUIT CONTAINS MULTIPLE BRANCH CIRCUITS, PROVIDE A SINGLE GROUND CONDUCTOR UNLESS OTHERWISE NOTED.
- CONDUIT, LIGHT FIXTURES, AND OTHER COMPONENTS MAY BE SHOWN LARGER THAN ACTUAL SIZE. CONDUIT ROUTING IS SHOWN WITH AN EXAGGERATED SPACING FOR CLARITY. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL CONTRACTORS TO ENSURE CONDUIT PLACEMENT DOES NOT CONFLICT WITH LOCATION SENSITIVE COMPONENTS SUCH AS LIGHT FIXTURES.
- ALL PULL CORD/WIRE PROVIDED FOR EMPTY RACEWAY/CONDUIT SYSTEMS SHALL HAVE A MINIMUM STRENGTH OF 200 LBS TENSILE STRENGTH. ALL EMPTY CONDUITS SHALL HAVE A PULL CORD.
- PROVIDE LUGS AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT TO ACCEPT THE SIZE AND NUMBER OF CONDUCTORS SHOWN IN THESE DOCUMENTS.
- ALL CONDUCTORS SHALL BE THINER THAN UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE RATED FOR 75 DEGREES C. TERMINATIONS SHALL BE RATED FOR 75 DEGREES C. DEVIATIONS SHALL COMPLY WITH NEC ARTICLE 110 FOR EXACT EQUIPMENT BEING PROVIDED, WHERE RECEPTACLES ARE SHOWN BACK-TO-BACK ON A COMMON WALL, OFFSET THE TWO BOXES AT LEAST SIX INCHES.
- THERE SHALL BE NO SPLICES OF WIRING INSIDE PANELBOARDS OR DISCONNECT SWITCHES. ONLY ONE WIRE SHALL BE TERMINATED TO ANY SINGLE LUG ON A CIRCUIT BREAKER.
- ALL WIRING AND CONDUIT SIZES SHALL BE BASED ON THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
- UNLESS OTHERWISE NOTED, FOR HOMERUNS HAVING A TOTAL LENGTH OF 100' TO 200', USE #10 CONDUCTORS; FOR HOMERUNS HAVING A TOTAL LENGTH OF 200' OR GREATER, USE #8 CONDUCTORS.
- COORDINATE THE REQUIREMENTS FOR OVERCURRENT PROTECTIVE DEVICE SIZE, DISCONNECT SWITCH SIZE, AND CONDUCTOR AND CONDUIT SIZES WITH THE REQUIREMENTS OF THE MECHANICAL EQUIPMENT THAT IS ACTUALLY TO BE INSTALLED AND PROVIDE AND INSTALL ALL ELECTRICAL COMPONENTS AS REQUIRED. THE ELECTRICAL COMPONENT SIZING SHOWN ON THESE DRAWINGS IS BASED UPON THE REQUIREMENTS FOR THE SPECIFIED MECHANICAL EQUIPMENT AVAILABLE AT THE TIME OF DESIGN. VARIATIONS IN REQUIREMENTS MAY OCCUR AS A RESULT OF THE PROVISION OF OTHER MANUFACTURER'S EQUIPMENT OR IN CHANGES TO THE SPECIFIED EQUIPMENT. SUCH REVISED REQUIREMENTS ARE A PART OF THIS CONTRACT AND SHALL BE ACCOMMODATED WITHOUT ADDITIONAL CHARGE.
- FOR COORDINATION PURPOSES, DEVICES MAY BE MOVED A MAXIMUM DISTANCE OF SIX FEET, PRIOR TO INSTALLATION, AT NO COST TO THE OWNER, UPON INSTRUCTION BY THE ARCHITECT OR ENGINEER.
- REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIRE CALKING REQUIREMENTS. ALL PENETRATIONS THROUGH FIRE WALLS AND SMOKE BARRIERS SHALL BE SEALED IN ACCORDANCE WITH CODE REQUIREMENTS.

FIRE ALARM NOTES

- FIRE ALARM SYSTEM IS EXISTING.
- GC SHALL HIRE CERTIFIED FIRE ALARM CONTRACTOR TO RELOCATE AND/OR EXTEND EXISTING EQUIPMENT INTO NEW SPACES AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM ACCORDING TO MSU'S FIRE ALARM STANDARDS.

DATA SYMBOL LEGEND

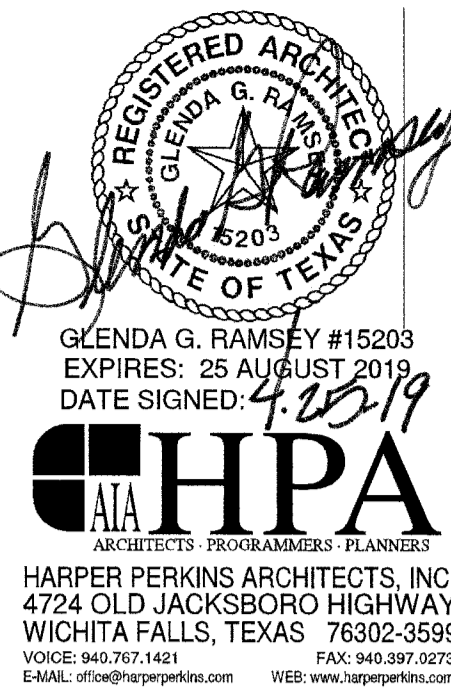
NOTES:

- MULTIPLE DATA DROPS SHOWN AT A SINGLE LOCATION SHALL TERMINATE IN KEYSTONES AT A SINGLE MULTI-OUTLET FACEPLATE.
- COORDINATE KEYSTONE AND FACEPLATE FINISHES WITH ARCHITECT.
- ALL DATA DROPS SHALL HAVE A JUNCTION BOX WITH 1" ENT TO ACCESSIBLE CEILING SPACE.

SYMBOL / TYPE	SYMBOL DESCRIPTION
∇	(1) NEW DATA DROP TO (1) KEYSTONE WITH FACEPLATE.
∇ WW	(2) DATA DROPS FOR WALL MOUNTED WIRELESS ACCESS POINT. PROVIDE KEYSTONES AND SINGLE FACEPLATE.
∇ WR	TERMINATE (2) CAT6 OSP OUTDOOR CABLE DATA DROPS VIA BOTTOM-FEED ONLY WEATHER-TIGHT 6"x6"x4" NEMA 3R ENCLOSURE. PROVIDE 24" COILED CABLE WITH RJ-45 CONNECTORS. COORDINATE EXACT LOCATION WITH ARCHITECT.
∇ WE	TERMINATE (2) CAT6 OSP OUTDOOR CABLE DATA DROPS VIA BOTTOM-FEED ONLY WEATHER-TIGHT ENCLOSURE VENTEV CV12106LO-NH. PROVIDE 24" COILED CABLE WITH RJ-45 CONNECTORS. COORDINATE EXACT LOCATION WITH ARCHITECT.
∇ W	(2) DATA DROPS FOR CEILING MOUNTED WIRELESS ACCESS POINT. PROVIDE KEYSTONES AND SINGLE FACEPLATE.
∇ TV	(1) NEW DATA DROP TO (1) KEYSTONE WITH FACEPLATE FOR TELEVISION. COORDINATE EXACT LOCATION WITH ARCHITECT.
∇ P	(1) DATA DROP FOR CEILING MOUNTED PROJECTOR. PROVIDE KEYSTONE AND FACEPLATE.
∇ E	EXISTING DATA PORT; PULL NEW CABLE TO NEAREST NETWORK SWITCH AND PROVIDE NEW KEYSTONE AND COVERPLATE.
∇ D	DEMOLISH DATA PORT. REMOVE CABLING BACK TO SOURCE. PROVIDE NEW BLANK COVERPLATE.
∇ 4	(4) NEW DATA DROPS TO (4) KEYSTONES IN (1) FACEPLATE

POWER SYMBOL LEGEND

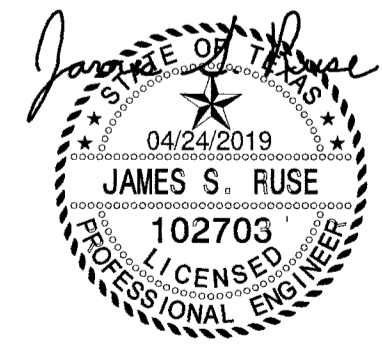
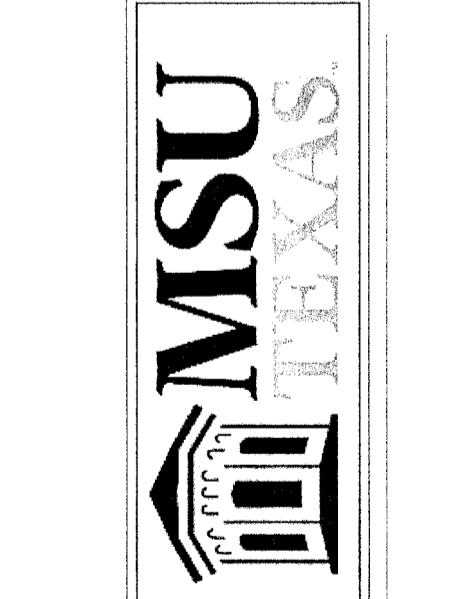
SYMBOL / TYPE	SYMBOL DESCRIPTION
⊙	JUNCTION BOX
⊕	MOTOR RATED SWITCH
⊕	STANDARD QUADPLEX RECEPTACLE AT 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
⊕	STANDARD DUPLEX RECEPTACLE AT 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
⊕ TV	RECESSED DUPLEX RECEPTACLE FOR TELEVISION. COORDINATE EXACT ELEVATION WITH ARCHITECT
⊕ REF	STANDARD DUPLEX RECEPTACLE FOR REFRIGERATOR
⊕ PS	WIRED J-BOX FOR MOTORIZED PROJECTOR SCREEN. COORDINATE EXACT REQUIREMENTS WITH SCREEN INSTALLER.
⊕ P	CEILING MOUNTED DUPLEX RECEPTACLE FOR PROJECTOR
⊕ MG	MOTORIZED GOAL; COORDINATE WITH INSTALLER FOR EXACT REQUIREMENTS AND LOCATION
⊕ IM	RECEPTACLE FOR ICE MAKER
⊕ GC	GOGGLE CABINET; REFER TO ARCHITECTURAL FOR EXACT LOCATION/ HEIGHT.
⊕ G	GFI DUPLEX RECEPTACLE
⊕ FP	MOTOR RATED SWITCH FOR FAN POWERED UNIT; REFER TO MECHANICAL PLANS FOR MORE INFORMATION.
⊕ FP	FLOOR BOX WITH FOUR DUPLEX POWER RECEPTACLES AND SEPARATE DATA COMPARTMENTS. PROVIDE 1-1/2" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING FOR DATA. FINISH TO BE SILVER. PROVIDE WIREMOLD #RFB6E-OG FOR SLAB ON-GRADE LOCATIONS AND #6ATC FOR ABOVE-GRADE POKE-THROUGH LOCATIONS. POKE THROUGH SHALL MATCH FLOOR FIRE RATINGS. PROVIDE 1-1/4" C FOR COMMUNICATIONS TO ACCESSIBLE AREA ABOVE CEILING. COORDINATE STUB-UP AND J-BOX WITH FIXED FURNITURE AND EQUIPMENT PRIOR TO INSTALLATION. SAW CUT AND REPAIR SLAB AS REQUIRED.
⊕ FH	WIRED J-BOX FOR FUME HOOD. COORDINATE EXACT REQUIREMENTS WITH FUME HOOD INSTALLER.
⊕ DW	DISHWASHER DUPLEX RECEPTACLE; INSTALL BENEATH ADJACENT CABINET.
⊕ CP	STANDARD DUPLEX RECEPTACLE FOR COPIER/ PLOTTER
⊕ AG	ABOVE COUNTER GFI DUPLEX RECEPTACLE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT
⊕ A	ABOVE COUNTER DUPLEX RECEPTACLE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT



GLENDA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 4.23.19

HPA
 ARCHITECTS PROFESSIONAL PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-2599
 VOICE: 940.707.1421 FAX: 940.397.9279
 EMAIL: glend@hpaengineers.com WEB: www.hpaengineers.com

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 WICHITA FALLS, TEXAS
 3410 TAFT BOULEVARD



DRAWN BY:

DATE: 04/01/2019

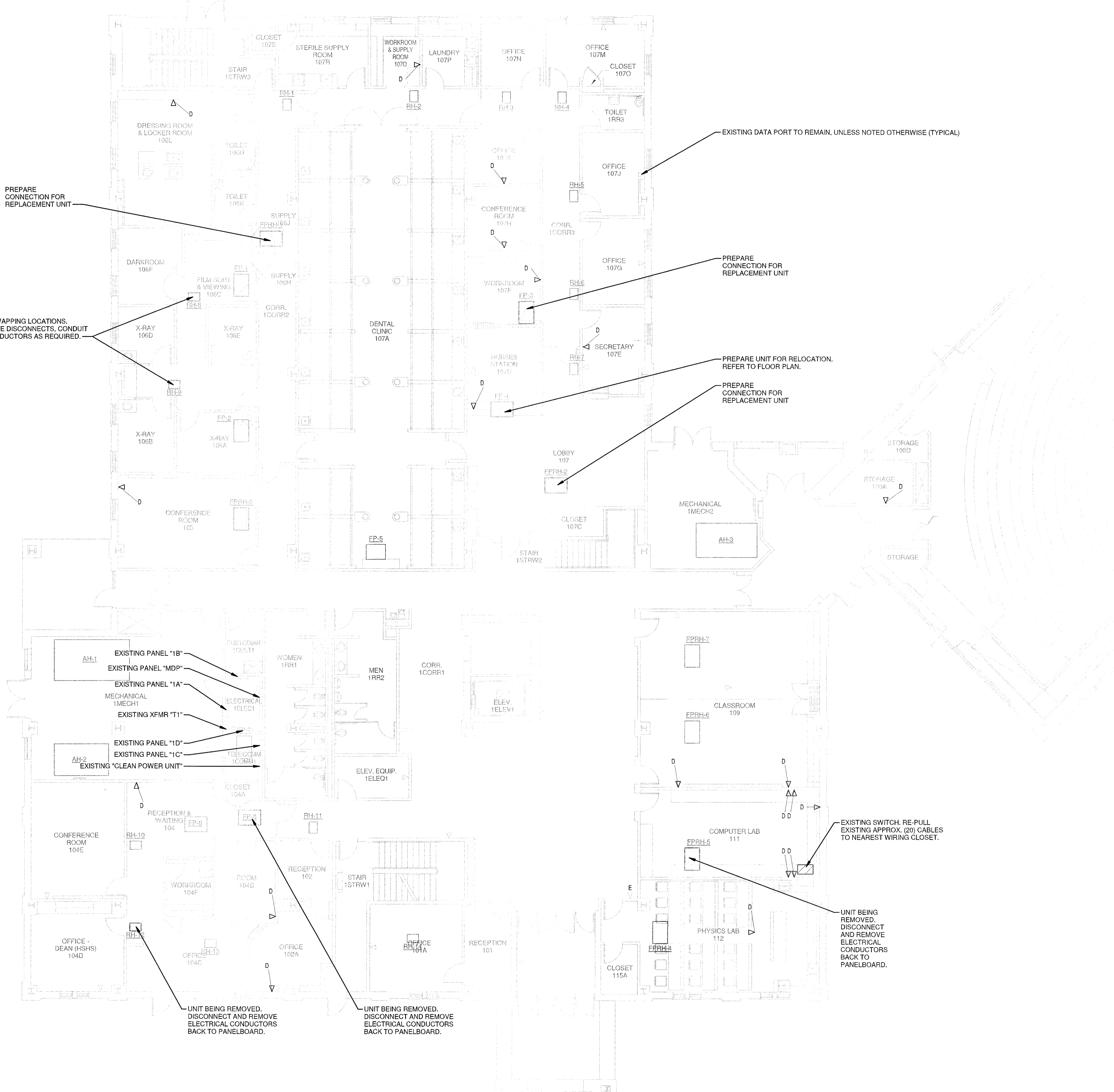
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NO.	DESCRIPTION	DATE

Summit
 CONSULTANTS, INC.
 Texas BPE Registration # F-207
 1300 Summit Avenue Suite 500 Fort Worth, Texas 76102
 4144 N. Central Expwy Suite 635 Dallas, Texas 75204
 Office 817.878.4242 Office 214.420.9111
 www.summitmep.com

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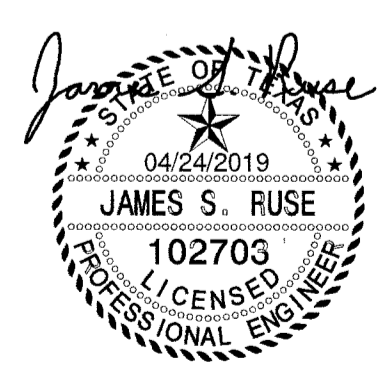
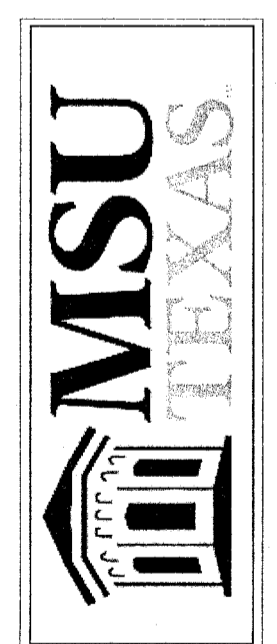
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- ### ELECTRICAL DEMOLITION NOTES
- EXISTING LIGHTING SHALL BE REMOVED IN THE AREAS WHERE NEW LIGHTING IS TO BE INSTALLED. ANY LIGHTING NOT REMOVED SHALL BE RE-CONNECTED TO A LIGHTING CIRCUIT DURING CONSTRUCTION. * REFER TO ARCH. DEMOLITION PLANS AND TO LIGHTING PLANS FOR AREAS OF WORK.
 - REMOVE ALL J-BOXES, RECEPTACLES, SWITCHES, WIRE AND CONDUIT INDICATED TO ABOVE CEILING. PREPARE FOR RE-CONNECTION. * REFER TO ELECTRICAL PLANS FOR AREA OF WORK.
 - ALL ABANDONED SURFACE MOUNTED WIRING AND CABLES FOR INTERCOM, PHONE, CLOCK AND OTHER AUXILIARY SYSTEMS SHALL BE REMOVED FROM THE BUILDING. CONTRACTOR SHALL PATCH OR REPAIR AND PAINT ANY DAMAGE LEFT AFTER REMOVAL OF THESE SYSTEMS.
 - CONTRACTOR SHALL PATCH, TEXTURE AND REPAIR WALLS, CEILINGS, FLOORS AND OTHER SURFACES TO MATCH EXISTING WHERE SURFACE RACEWAY, RECEPTACLES, LIGHTING, FIRE ALARM DEVICES, PA SYSTEM DEVICES, JUNCTION BOXES AND OTHER ELECTRICAL COMPONENTS ARE REMOVED.
 - EXISTING DATA DROPS TO BE REMOVED (AND NOT REPLACED) SHALL BE PULLED BACK TO SOURCE, REPLACE KEYSTONE PLATE WITH SOLID FACE PLATE TO MATCH OTHERS IN SPACE.

GLENDA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 4.29.19
HPA
 ARCHITECTS PROGRAMMERS PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76702-3599
 VOICE: 940.797.1421 FAX: 940.391.2273
 EMAIL: ggr@hpaengineers.com WEB: www.hpaengineers.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 3410 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



DRAWN BY:

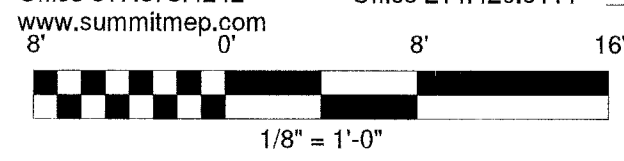
DATE: 04/01/2019

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NO.	DESCRIPTION	DATE

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 CONSULTANTS, INC.
 Texas BPE Registration # F-207
 1300 Summit Avenue Suite 500 Fort Worth, Texas 76102
 4144 N. Central Expwy Suite 635 Dallas, Texas 75204
 Office 817.878.4242 Office 214.420.9111
 www.summitcpe.com

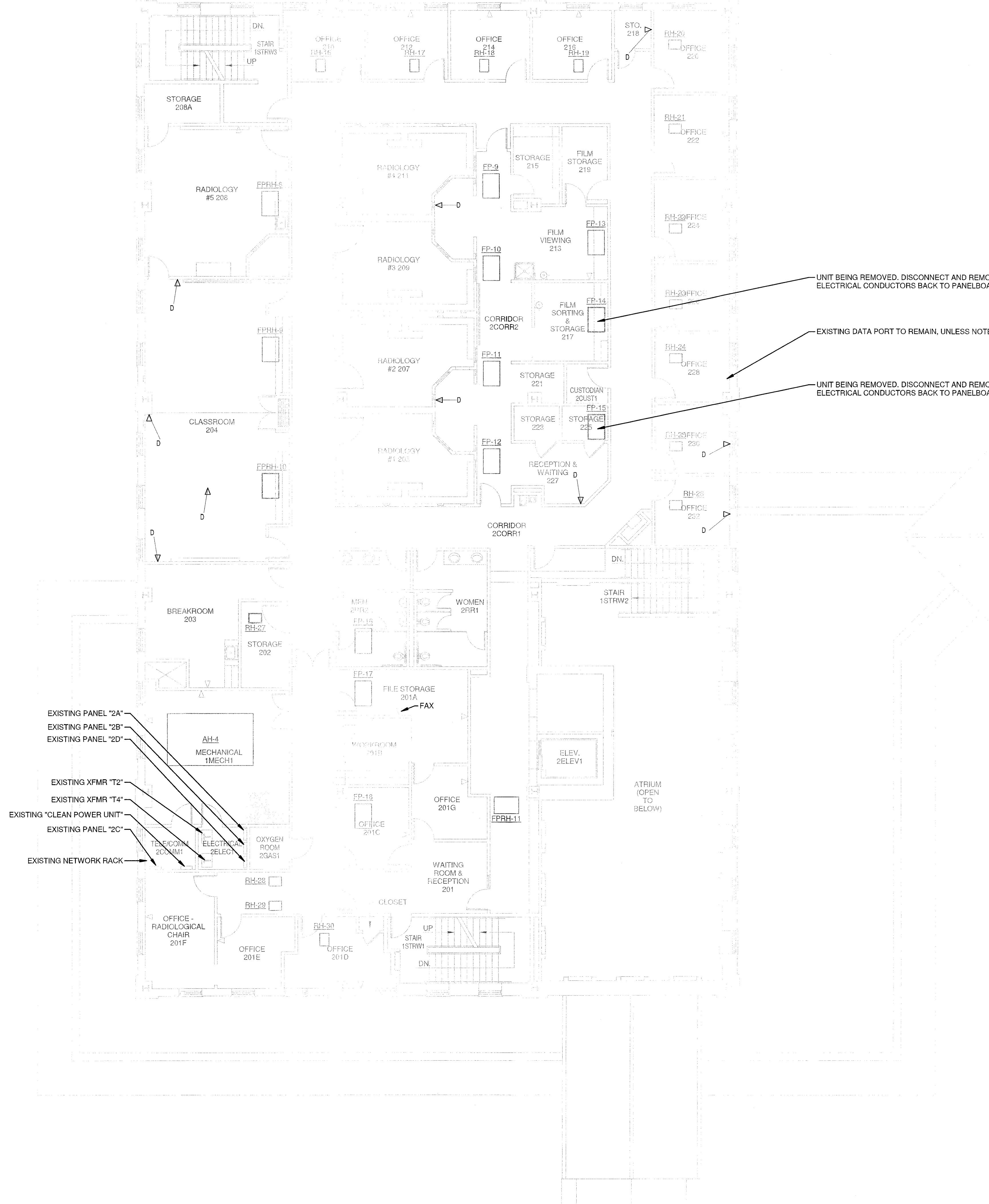
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E1.1

1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
 1/8" = 1'-0"



- ELECTRICAL DEMOLITION NOTES**
- EXISTING LIGHTING SHALL BE REMOVED IN THE AREAS WHERE NEW LIGHTING IS TO BE INSTALLED. ANY LIGHTING NOT REMOVED SHALL BE RE-CONNECTED TO A LIGHTING CIRCUIT DURING CONSTRUCTION. * REFER TO ARCH. DEMOLITION PLANS AND TO LIGHTING PLANS FOR AREAS OF WORK.
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REGISTERED ARCHITECT
 GLENDA G. RAMSEY
 STATE OF TEXAS
 #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 4/22/19
HPA
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 840.787.1421 FAX: 840.387.0273
 E-MAIL: glen@hpaarch.com WEB: www.hpaarch.com

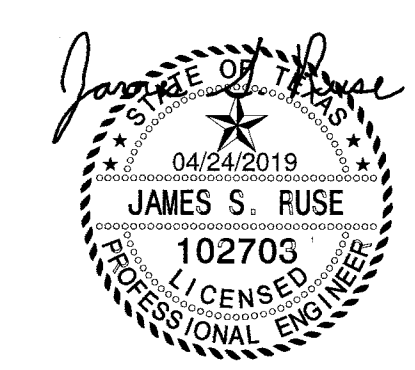
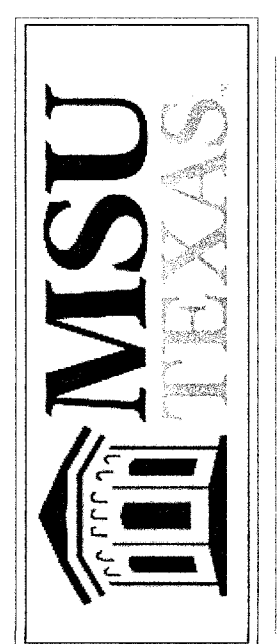
- EXISTING PANEL "2A"
- EXISTING PANEL "2B"
- EXISTING PANEL "2D"
- EXISTING XFMR "T2"
- EXISTING XFMR "T4"
- EXISTING "CLEAN POWER UNIT"
- EXISTING PANEL "2C"
- EXISTING NETWORK RACK

UNIT BEING REMOVED. DISCONNECT AND REMOVE ELECTRICAL CONDUCTORS BACK TO PANELBOARD.

EXISTING DATA PORT TO REMAIN, UNLESS NOTED OTHERWISE (TYPICAL)

UNIT BEING REMOVED. DISCONNECT AND REMOVE ELECTRICAL CONDUCTORS BACK TO PANELBOARD.

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 WICHITA FALLS, TEXAS
 3410 TAFT BOULEVARD



DRAWN BY:

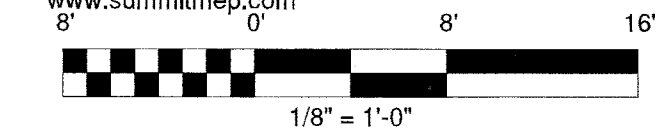
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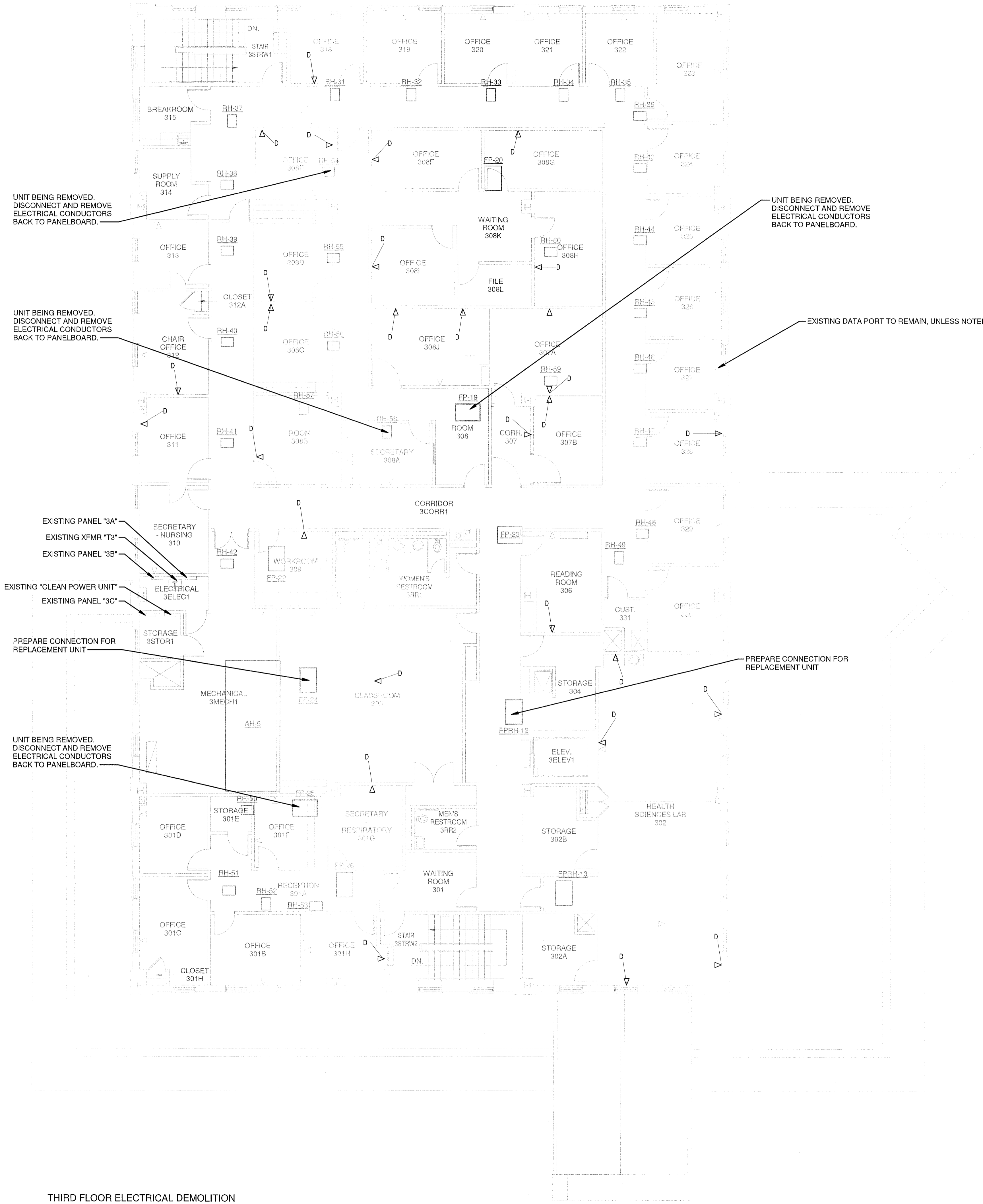
SECOND FLOOR ELECTRICAL DEMOLITION PLAN
 1/8" = 1'-0"

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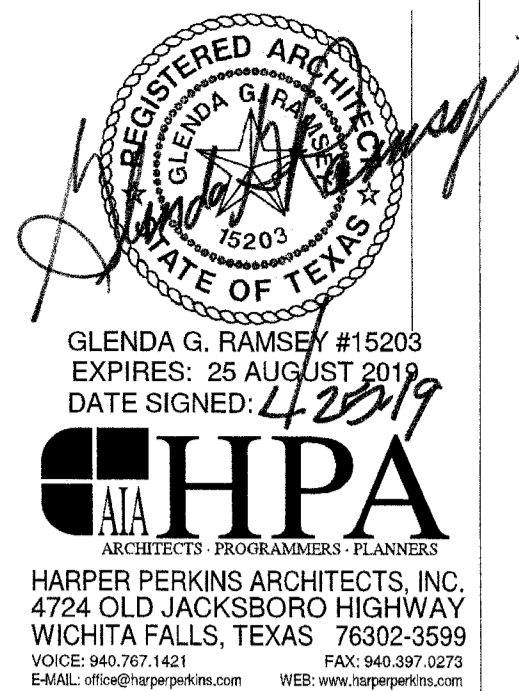
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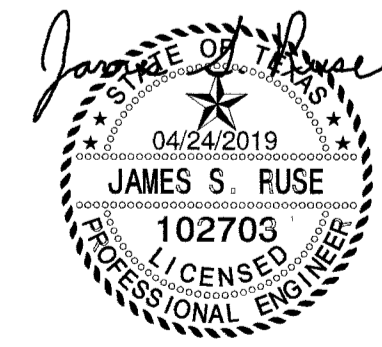
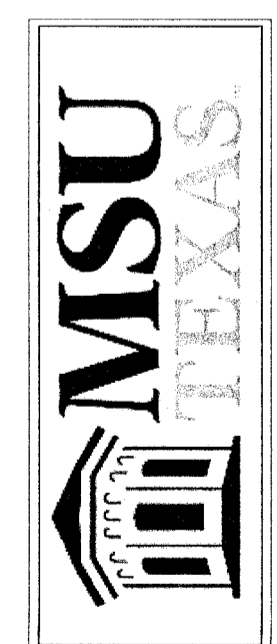
E1.2



- ### ELECTRICAL DEMOLITION NOTES
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RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 3410 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



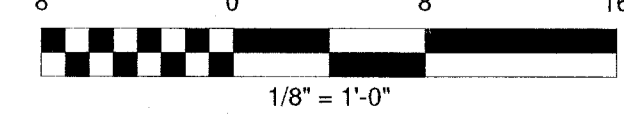
DRAWN BY: _____

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 4144 N. Central Expwy Suite 605 Dallas, Texas 75204
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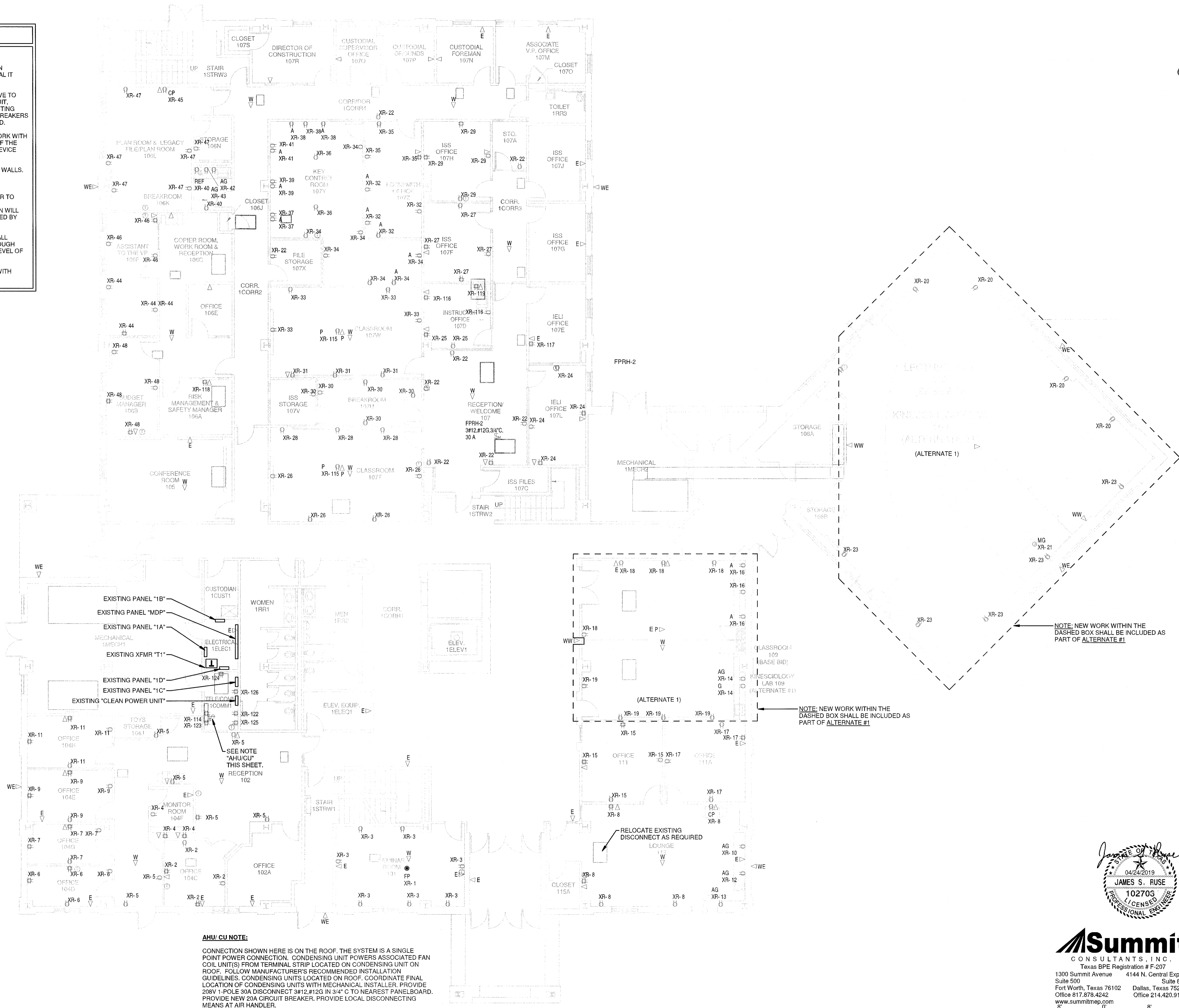
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① **THIRD FLOOR ELECTRICAL DEMOLITION PLAN**
 1/8" = 1'-0"

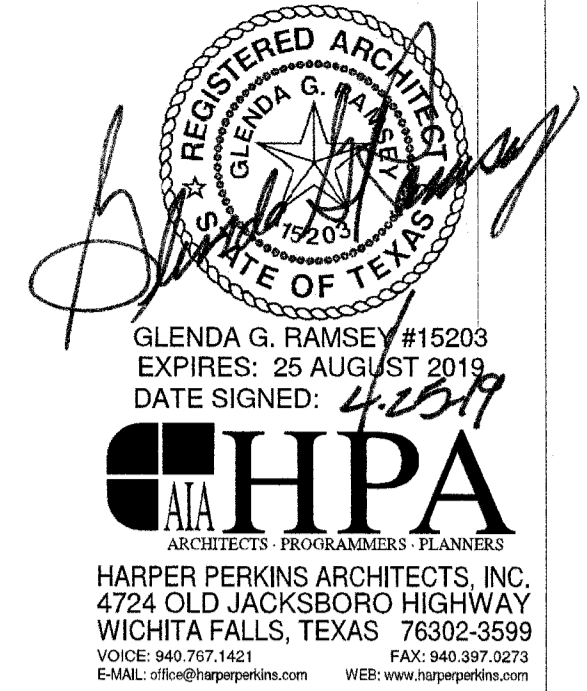
POWER GENERAL NOTES

- REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION REGARDING THE MULTIPLE ALTERNATES, INCLUDING SPECIAL IT INFRASTRUCTURE ALTERNATE.
- CIRCUIT NUMBERS SHOWN ARE ARBITRARY AND ONLY SERVE TO INDICATE GROUPING OF DEVICES ON A SINGLE 1P20A CIRCUIT, UNLESS NOTED OTHERWISE. "XR" INDICATES NEAREST EXISTING 120V RECEPTACLE CIRCUIT. PROVIDE NEW 1P20A CIRCUIT BREAKERS IN EXISTING PANELBOARD SPACES AVAILABLE, AS REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL EQUIPMENT MANUFACTURERS THROUGH ALL AREAS OF THE PROJECT FOR INCREASED ACCURACY WHEN INSTALLING DEVICE BOXES.
- OUTLET BOXES SHALL NOT BE INSTALLED BACK TO BACK IN WALLS. A MINIMUM OF 6" SEPARATION BETWEEN BOXES SHALL BE MAINTAINED TO REDUCE SOUND TRANSMISSION.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT WIRING REQUIREMENTS OF MODULAR FURNITURE WITH THE FURNITURE MANUFACTURER. DESIGN WILL SHOW AN INDEPENDENT NEUTRAL PER CIRCUIT AS REQUIRED BY NEC 200.4.
- CONTRACTOR SHALL REMAIN CAUTIOUS OF FIRE RATED WALL LOCATIONS. ALL CONSTRUCTION GAP PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED TO PRESERVE THE LEVEL OF INTEGRITY OF THE WALL RATING.
- DEVICE AND COVERPLATES PLATES TO BE COORDINATED WITH ARCHITECT

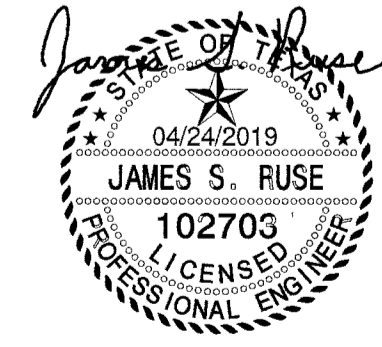


AHU/CU NOTE:
 CONNECTION SHOWN HERE IS ON THE ROOF. THE SYSTEM IS A SINGLE POINT POWER CONNECTION. CONDENSING UNIT POWERS ASSOCIATED FAN COIL UNIT(S) FROM TERMINAL STRIP LOCATED ON CONDENSING UNIT ON ROOF. FOLLOW MANUFACTURER'S RECOMMENDED INSTALLATION GUIDELINES. CONDENSING UNITS LOCATED ON ROOF. COORDINATE FINAL LOCATION OF CONDENSING UNITS WITH MECHANICAL INSTALLER. PROVIDE 208V 1-POLE 30A DISCONNECT 3/12 #12G IN 3/4" O TO NEAREST PANELBOARD. PROVIDE NEW 20A CIRCUIT BREAKER. PROVIDE LOCAL DISCONNECTING MEANS AT AIR HANDLER.

1 FIRST FLOOR ELECTRICAL PLAN
 1/8" = 1'-0"



RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 3410 TAFT BOULEVARD WICHITA FALLS, TEXAS



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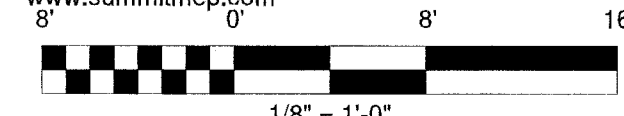
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NO.	DESCRIPTION	DATE

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E2.1

POWER GENERAL NOTES

1. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION REGARDING THE MULTIPLE ALTERNATES, INCLUDING SPECIAL IT INFRASTRUCTURE ALTERNATE.
2. CIRCUIT NUMBERS SHOWN ARE ARBITRARY AND ONLY SERVE TO INDICATE GROUPING OF DEVICES ON A SINGLE 1P20A CIRCUIT, UNLESS NOTED OTHERWISE. "XR" INDICATES NEAREST EXISTING 120V RECEPTACLE CIRCUIT. PROVIDE NEW 1P20A CIRCUIT BREAKERS IN EXISTING PANELBOARD SPACES AVAILABLE, AS REQUIRED.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL EQUIPMENT MANUFACTURERS THROUGH ALL AREAS OF THE PROJECT FOR INCREASED ACCURACY WHEN INSTALLING DEVICE BOXES.
4. OUTLET BOXES SHALL NOT BE INSTALLED BACK TO BACK IN WALLS. A MINIMUM OF 6" SEPARATION BETWEEN BOXES SHALL BE MAINTAINED TO REDUCE SOUND TRANSMISSION.
5. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT WIRING REQUIREMENTS OF MODULAR FURNITURE WITH THE FURNITURE MANUFACTURER. DESIGN WILL SHOW AN INDEPENDENT NEUTRAL PER CIRCUIT AS REQUIRED BY NEC 200.4.
6. CONTRACTOR SHALL REMAIN CAUTIOUS OF FIRE RATED WALL LOCATIONS. ALL CONSTRUCTION GAP PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED TO PRESERVE THE LEVEL OF INTEGRITY OF THE WALL RATING.
7. DEVICE AND COVERPLATE PLATES TO BE COORDINATED WITH ARCHITECT

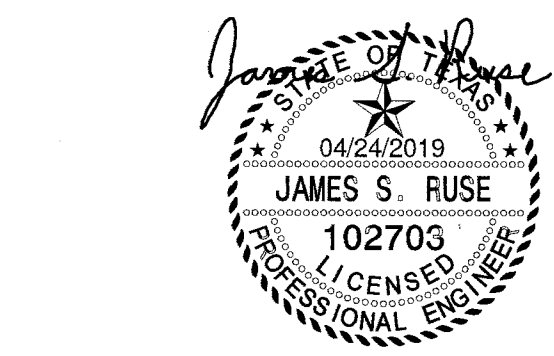
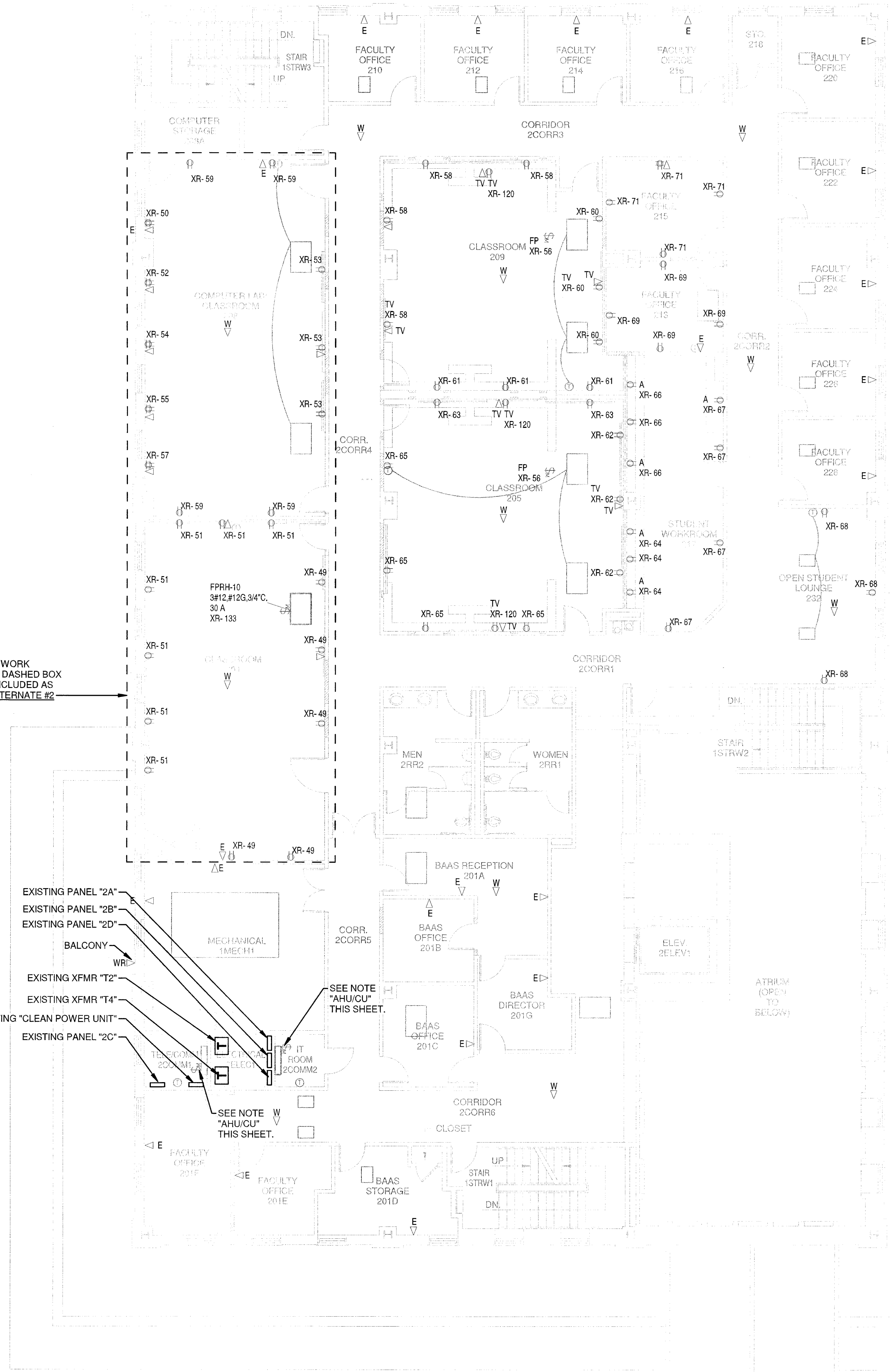
NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INCLUDED AS PART OF ALTERNATE #2

- EXISTING PANEL "2A"
- EXISTING PANEL "2B"
- EXISTING PANEL "2D"
- BALCONY
- EXISTING XFMR "T2"
- EXISTING XFMR "T4"
- EXISTING "CLEAN POWER UNIT"
- EXISTING PANEL "2C"

AHU/CU NOTE:

CONNECTION SHOWN HERE IS ON THE ROOF. THE SYSTEM IS A SINGLE POINT POWER CONNECTION. CONDENSING UNIT POWERS ASSOCIATED FAN COIL UNIT(S) FROM TERMINAL STRIP LOCATED ON CONDENSING UNIT ON ROOF. FOLLOW MANUFACTURER'S RECOMMENDED INSTALLATION GUIDELINES. CONDENSING UNITS LOCATED ON ROOF. COORDINATE FINAL LOCATION OF CONDENSING UNITS WITH MECHANICAL INSTALLER. PROVIDE 208V 1-POLE 30A DISCONNECT 3#12 IN 3/4" C TO NEAREST PANELBOARD. PROVIDE NEW 20A CIRCUIT BREAKER. PROVIDE LOCAL DISCONNECTING MEANS AT AIR HANDLER.

1 SECOND FLOOR ELECTRICAL PLAN
1/8" = 1'-0"



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Office 817.678.4242 Office 214.420.9111
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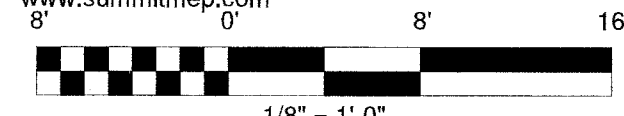
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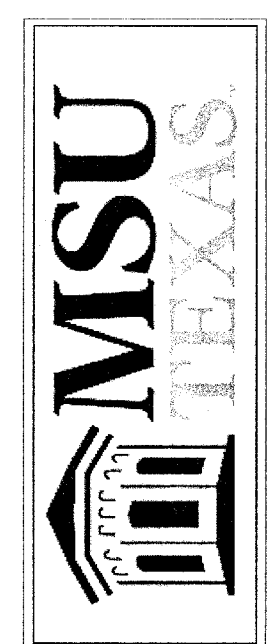
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E2.2

GLEND A. G. RAMSEY #15203
EXPIRES: 25 AUGUST 2019
DATE SIGNED: 2/25/19

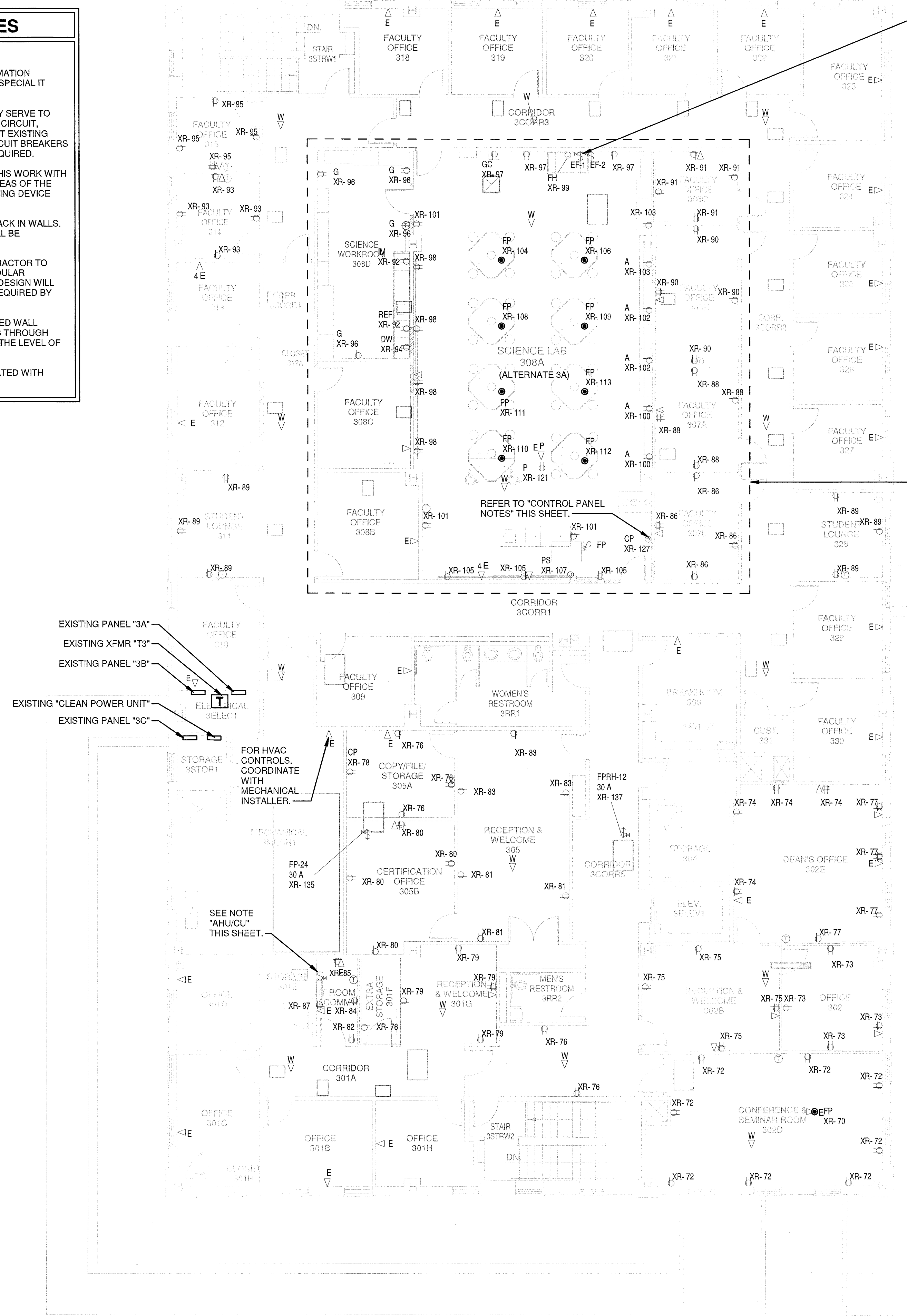
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ARCHITECTS ENGINEERS PLANNERS
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4724 OLD JACKSBORO HIGHWAY
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VOICE: 940.767.1421 FAX: 940.397.0273
EMAIL: glend@hpaarch.com WEB: www.hpaarch.com

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
WICHITA FALLS, TEXAS
3410 TAFT BOULEVARD



POWER GENERAL NOTES

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- DEVICE AND COVERPLATES PLATES TO BE COORDINATED WITH ARCHITECT



CONNECTIONS SHOWN HERE FOR EF-1 AND EF-2 ARE ON THE ROOF. COORDINATE FINAL LOCATION OF EXHAUST FANS WITH MECHANICAL INSTALLER. CIRCUIT TO NEAREST PANELBOARD. PROVIDE NEW 20A CIRCUIT BREAKER. INTEGRATE WITH UTILITY CONTROL PANEL PER PANEL MANUFACTURER'S INSTRUCTION.

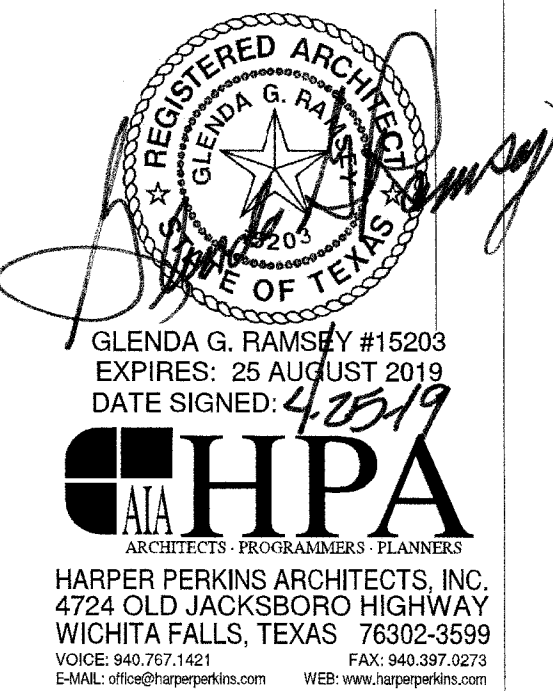
CONTROL PANEL NOTES:

- THE CONTROL PANEL SHALL PROVIDE EMERGENCY SHUT-OFF OF GAS, WATER AND POWER.
- "CP" ON PLANS IS THE REMOTE EMERGENCY SHUT-OFF BUTTON. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE:
 - FLUSH MOUNT REMOTE EMERGENCY SHUT-OFF BUTTON; ALL-OFF IN ALARM MODE; SEPARATE MANUAL FAN CONTROL BUTTON.
 - DIN RAIL MOUNTED J-BOXES FOR CONTACTORS LOCATED ADJACENT TO EXISTING PANELBOARD SUPPLYING CIRCUITS TO LAB. FIELD VERIFY LOCATION.
 - CONNECT TO PLUMBING SOLENOIDS; REFER TO PLUMBING PLANS FOR MORE LOCATION.
 - INTERFACE WITH EXHAUST FANS; REFER TO MECHANICAL PLANS FOR QUANTITY AND LOCATIONS.
 - INTEGRATE WITH EXISTING FIRE ALARM SYSTEM PER MANUFACTURER.
- ALL RECEPTACLE CIRCUITS IN LAB 308A SHALL BE CIRCUITED THROUGH "CP".
- COORDINATE EXACT REQUIREMENTS WITH CP SYSTEM MANUFACTURER. BASIS OF DESIGN IS AGS MERLIN 1000SW+ SYSTEM.

NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INCLUDED AS PART OF ALTERNATE #3A OR #3B

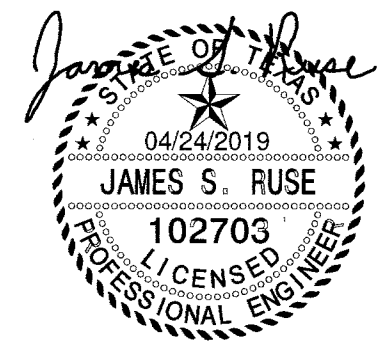
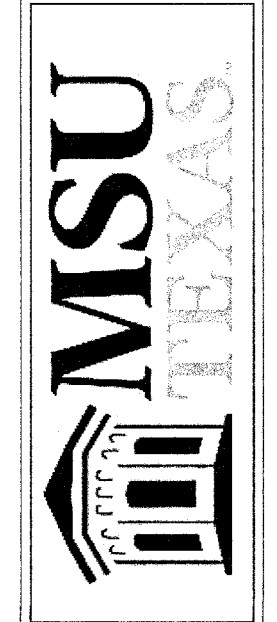
EXISTING PANEL "3A"
 EXISTING XFMR "T3"
 EXISTING PANEL "3B"
 EXISTING "CLEAN POWER UNIT"
 EXISTING PANEL "3C"

AHU/ CU NOTE:
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 WICHITA FALLS, TEXAS 76302-3599
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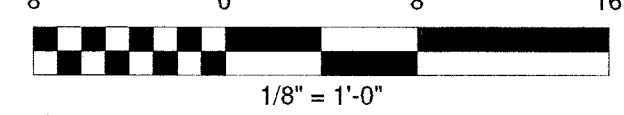


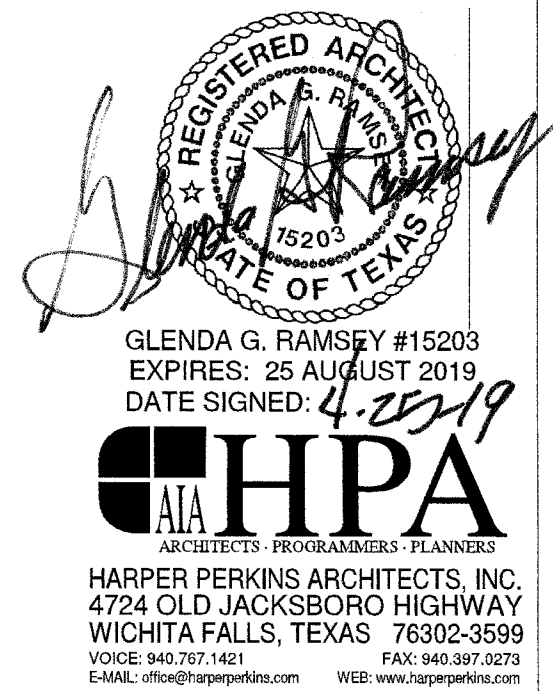
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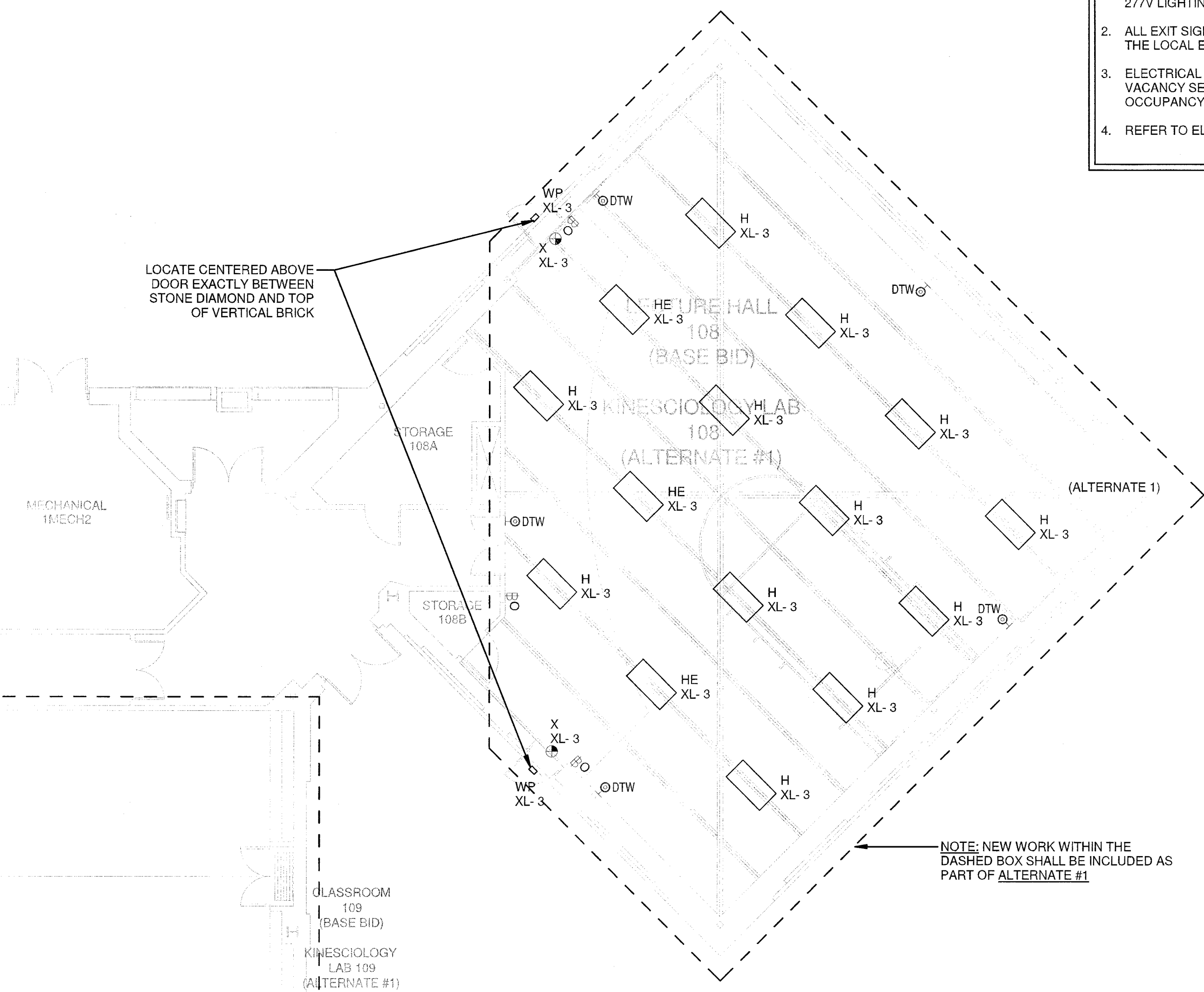
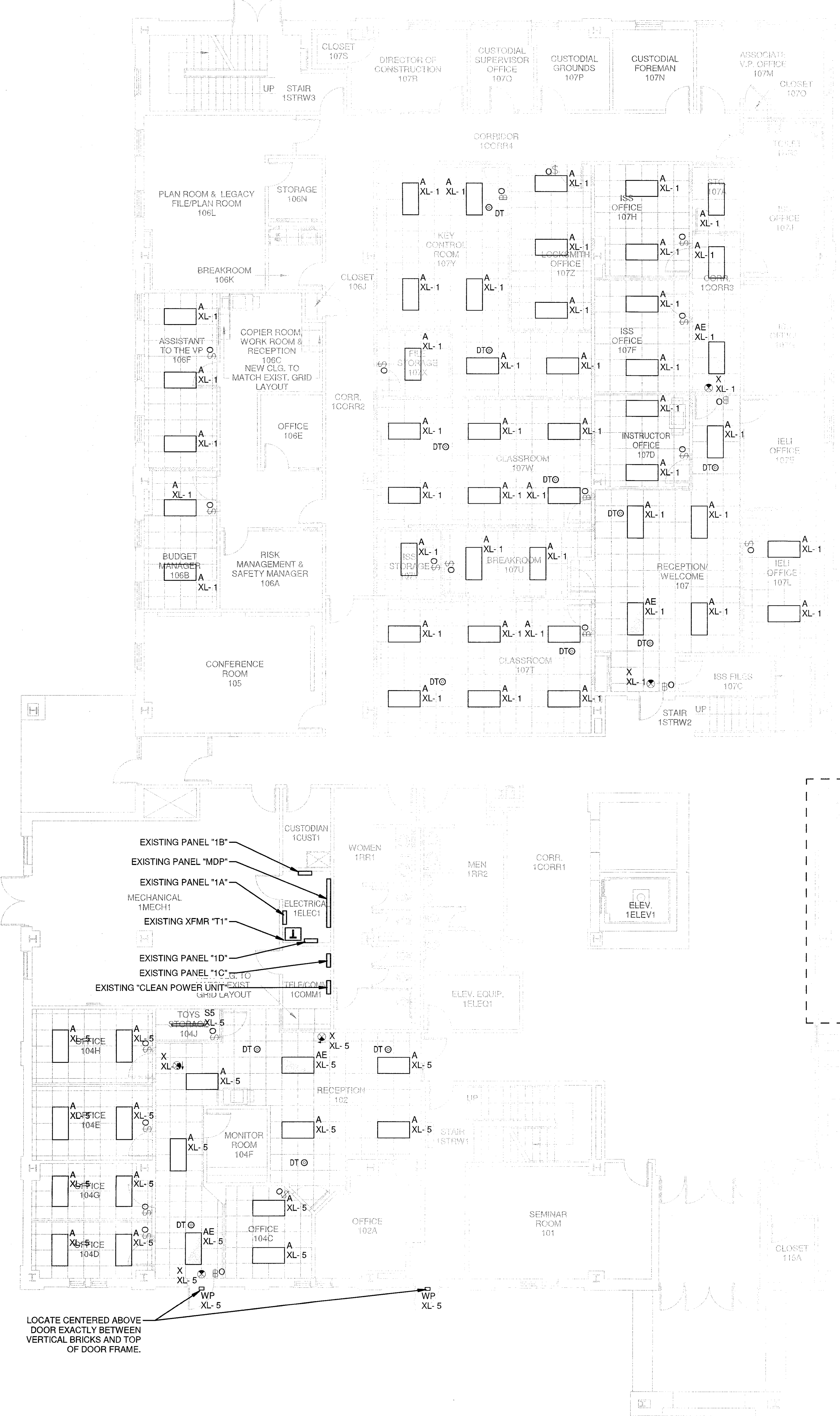
LIGHTING FIXTURE SCHEDULE

SCHEDULE NOTES:
1. PROVIDE ALL REQUIRED MOUNTING HARDWARE AND ACCESSORIES REQUIRED FOR MOUNTING NECESSARY

TYPE	DESCRIPTION	MANUFACTURER	MODEL#	COLOR	LUMENS	VA	COMMENTS
A	2x4 LED TROFFER	LITHONIA	2BLT4-48LHE-ADP-EZ1-LP840-MVOLT	4000K	4800	35 VA	
AE	SAME AS TYPE "A" ON EMERGENCY BATTERY		EL14L	4000K	4800	35 VA	
H	HIGH BAY LED	LITHONIA	IBG-36LM-HEF-AFL-WD-MVOLT-G210-40K-80CRI-DNA + IBAC120 + WBIBG46DNA	4000K	36000	197 VA	
HE	SAME AS TYPE "H" ON EMERGENCY BATTERY		PS30250	4000K	36000	197 VA	
SS	STRIP UTILITY LIGHT	LITHONIA	ZL1N-L48-5000LM-FST-MVOLT-40K-80CRI + HC36	4000K	5000	34 VA	
WP	DOOR EGRESS WALL PACK	EELP	ODEL-10W-W-EM-BRONZE-SD	N/A	N/A	22 VA	
X	EXIT SIGN	LITHONIA	LRP-1-RC-DIRECTION-277	4000K	N/A	3 VA	REFER TO PLAN VIEW FOR FACE LOCATIONS AND ARROW INDICATORS; REFER TO ARCH RCP FOR MOUNTING TYPE.

LIGHTING GENERAL NOTES

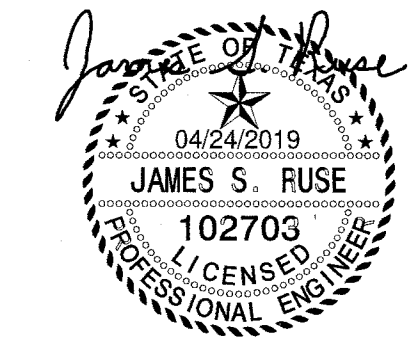
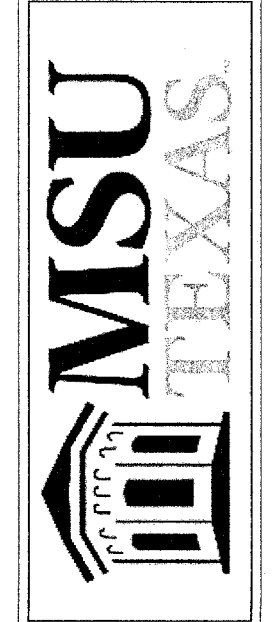
- CIRCUIT NUMBERS SHOWN ARE ARBITRARY AND ONLY SERVE TO INDICATE GROUPING OF DEVICES ON A SINGLE 1P20A CIRCUIT, UNLESS NOTED OTHERWISE. "XL" INDICATES NEAREST EXISTING 277V LIGHTING CIRCUIT.
- ALL EXIT SIGNS SHALL BE CONNECTED TO AN UNSWITCHED LEG OF THE LOCAL EMERGENCY LIGHTING CIRCUIT.
- ELECTRICAL CONTRACTOR SHALL SET ALL OCCUPANCY AND VACANCY SENSORS THROUGHOUT BUILDING IN ACCORDANCE WITH OCCUPANCY SENSOR SETTINGS SCHEDULE ON PLANS.
- REFER TO ELECTRICAL PLANS FOR ALTERNATE SCOPE.



SWITCH SYMBOL LEGEND

SYMBOL TYPE	SYMBOL DESCRIPTION
⊙ DRA	DAYLIGHTING ZONE. ALL FIXTURES CONTROLLED IN ONE ZONE.
⊙ DT	DUAL TECH OCCUPANCY SENSOR
⊙ DTW	DUAL TECH OCCUPANCY SENSOR - WALL MOUNTED
⊙ PC	PHOTO CELL
⊙ F	DIGITAL 3-BUTTON PER ZONE (ON/OFF, RAISE, LOWER). PROGRAM TO AUTOMATIC 100% ON, AUTOMATIC OFF AFTER 30 MINUTES. DUAL TECHNOLOGY OCCUPANCY SENSORS AS SHOWN IN PLAN VIEW. LOWER CASE LETTERS ADJACENT TO SWITCH INDICATES ZONES.
⊙ B	DIGITAL 3-BUTTON PER ZONE (ON/OFF, RAISE, LOWER). PROGRAM TO AUTOMATIC 50% ON, AUTOMATIC OFF AFTER 30 MINUTES. DUAL TECHNOLOGY OCCUPANCY SENSORS AS SHOWN IN PLAN VIEW. LOWER CASE LETTERS ADJACENT TO SWITCH INDICATES ZONES.
⊙ O	WALL MOUNTED LINE VOLTAGE OCCUPANCY SENSOR, 3-BUTTON (ON/OFF, RAISE, LOWER) DIMMING SENSOR, PROGRAM TO AUTOMATIC 50% ON, AUTOMATIC OFF AFTER 30 MINUTES. DUAL TECHNOLOGY UNLESS OTHERWISE NOTED.

RENOVATION OF J.S. BRIDWELL HALL FOR
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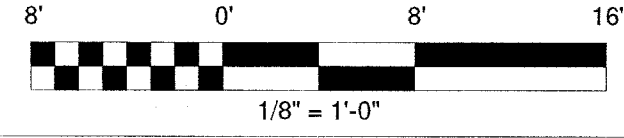
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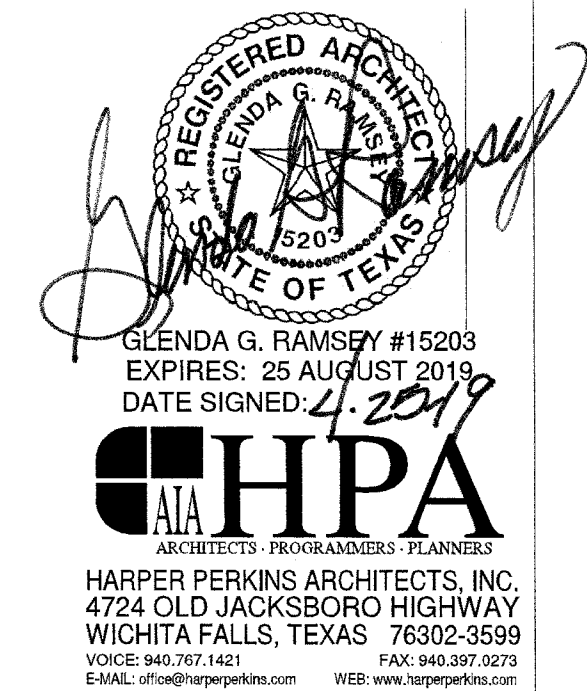
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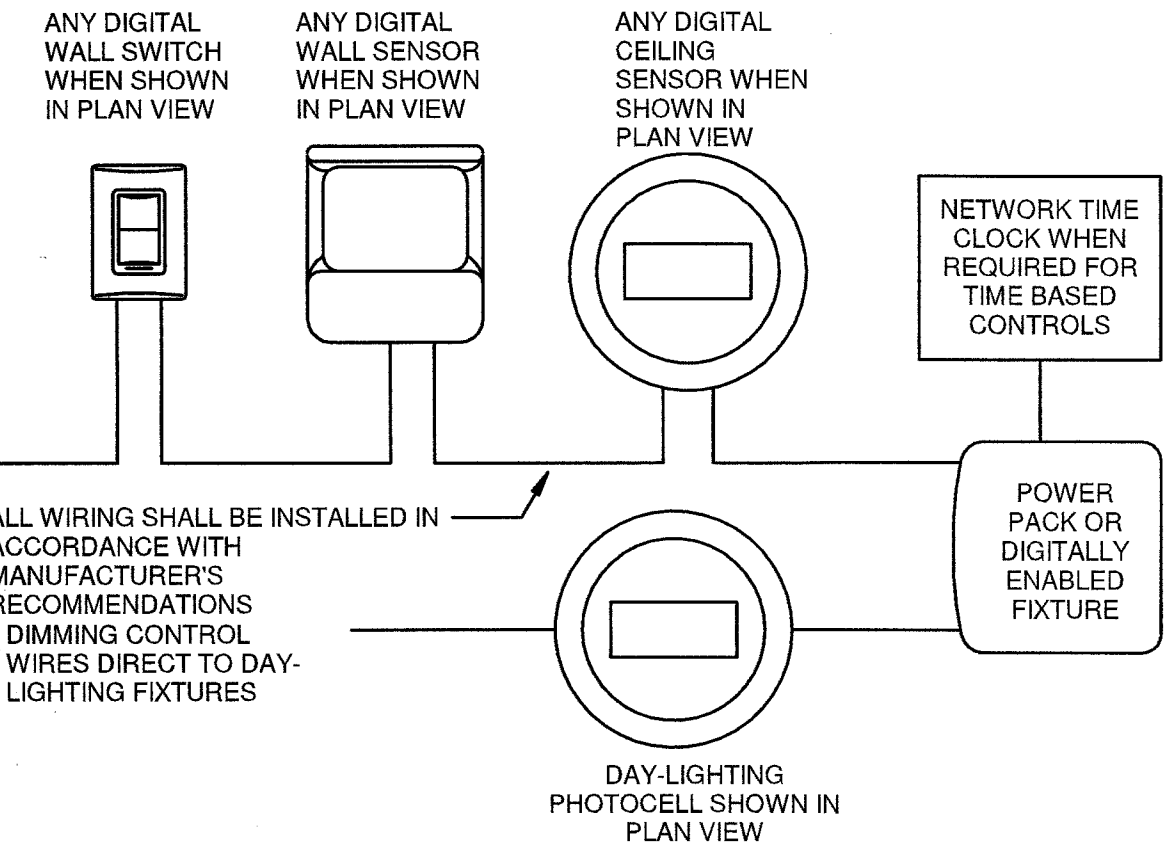
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LIGHTING GENERAL NOTES

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- ELECTRICAL CONTRACTOR SHALL SET ALL OCCUPANCY AND VACANCY SENSORS THROUGHOUT BUILDING IN ACCORDANCE WITH OCCUPANCY SENSOR SETTINGS SCHEDULE ON PLANS.
- REFER TO ELECTRICAL PLANS FOR ALTERNATE SCOPE.



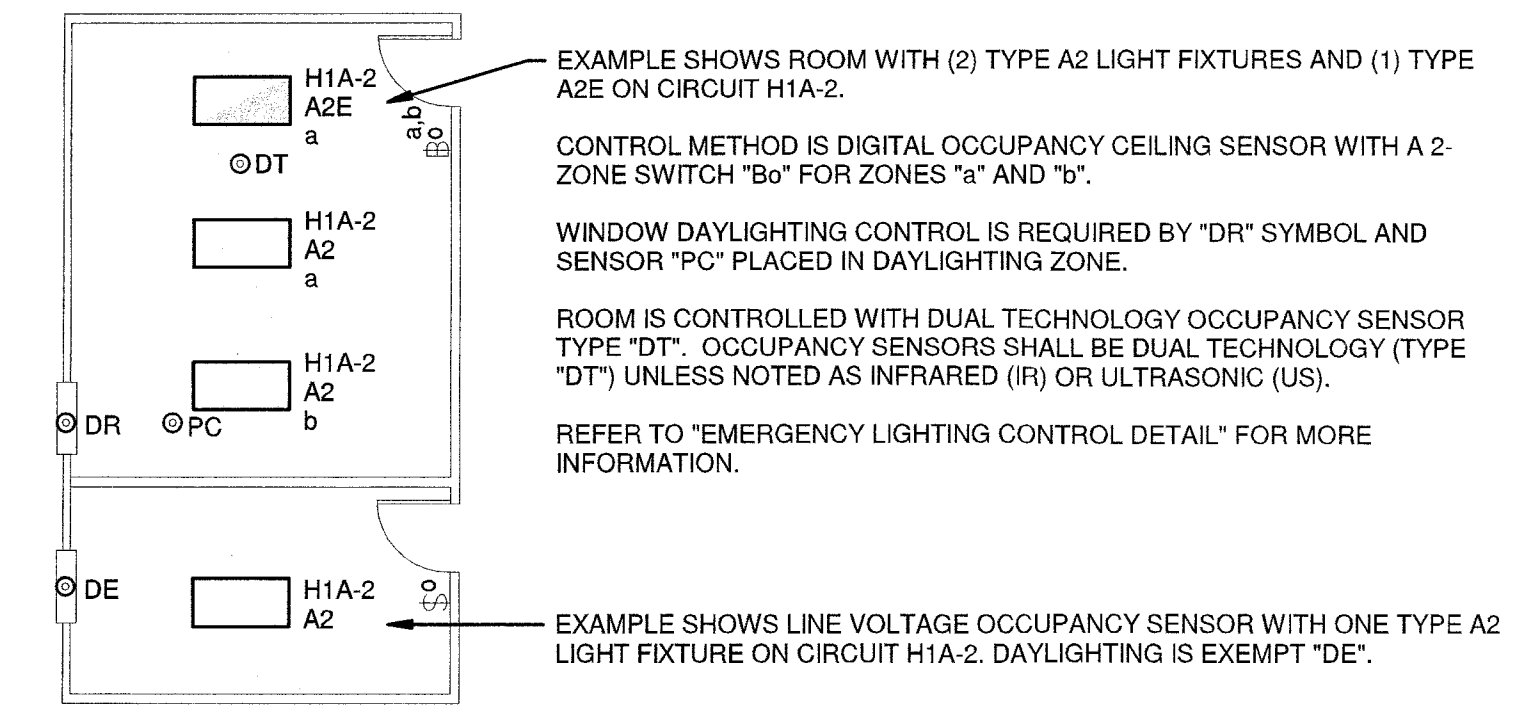
LIGHTING CONTROL GENERAL NOTE:

- ALL POWER PACKS TO BE MOUNTED ABOVE CEILING NEAREST THE FIRST WALL SWITCH SERVING THE ASSOCIATED ROOM. PLAN VIEW SHOWS QUANTITY OF ZONES REQUIRED. MANUFACTURER MAY COMBINE POWER PACKS WHERE POSSIBLE INTO MULTI ZONE POWER PACKS.
- ALL EMERGENCY BATTERY PACK DECORATIVE FIXTURES ARE TO TURN ON/OFF WITH ASSOCIATED ROOM BUT OVERRIDE TO ON IF POWER IS LOST.
- ALL EXIT LIGHTING AND BATTERY PACK ONLY FIXTURES ARE TO BE WIRED TO UN-SWITCHED LEG OF CIRCUITS SHOWN FOR CONSTANT POWER.
- DETAIL IS GENERIC IN NATURE. PLAN VIEWS WILL INDICATE NUMBER OF ZONES, PROVIDE POWER PACK OR EQUIVALENT FOR EACH ZONE. PLAN VIEW WILL INDICATE LOCATION OF DIGITAL WALL SWITCHES WITH NUMBER OF BUTTONS REQUIRED. ACCEPTABLE MANUFACTURERS ARE WATT STOPPER, LUTRON AND ACUITY CONTROLS. OTHERS WILL BE CONSIDERED WITH PRE-APPROVAL PRIOR TO BIDDING.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL SYSTEM.
- EMERGENCY LIGHTING SHOWN SHALL OPERATE WITH NORMAL LIGHTING IN THE AREA AND BE FORCED ON IN THE EVENT OF A POWER LOSS. REFER TO EMERGENCY LIGHTING CONTROL DETAIL.

LIGHTING CONTROLS NOTES:

- A. INCLUDE DIGITAL CONTROLS FOR:**
- GROUND FLOOR PUBLIC SPACES (LOBBIES, CORRIDORS, RESTAURANT, ETC.)
 - GROUND FLOOR LARGE MEETING ROOMS
 - CONTRACTOR SHALL COORDINATE WITH AV SYSTEM INSTALLER TO VERIFY COMPATIBILITY OF LIGHTING CONTROLS WITH THE AVL CONTROL SYSTEM.
 - AVL SYSTEM WILL HAVE IPADS PROVIDED BY THE AVL INSTALLER. PROVIDE A LUTRON APP COMPATIBLE WITH THE LIGHTING CONTROLS.
 - PROVIDE PARTITION SENSORS IN MEETING ROOMS FOR MOVABLE PARTITIONS.
 - PROVIDE SCENE BUTTON STATION FOR MEETING ROOMS.
 - GROUND FLOOR BACK OF HOUSE (AS INDICATED ON PLANS)
 - GROUND FLOOR - PROVIDE OUTDOOR LIGHTING OVER-RIDE SWITCH AT RECEPTION DESK, WHICH SHALL TURN ALL EXTERIOR PARKING LOT, SITE AND LANDSCAPE LIGHTING, AND BUILDING AND MONUMENT SIGNAGE LIGHTS ON REGARDLESS OF PHOTOCELL AND/OR TIMER SETTINGS. INTEGRATE WITH EXISTING BUILDING LIGHTING.
 - EXTERIOR PARKING, LANDSCAPE AND FACADE LIGHTING.
 - LEVELS 2 & 6 CORRIDORS AND BACK OF HOUSE
- B. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.**
- C. LIGHTING SUPPLIER SHALL VERIFY COMPATIBILITY OF ALL LIGHT FIXTURES WITH DIMMING CONTROLS TO BE PROVIDED WITH CONTROL SYSTEM. ALL FIXTURES SHALL DIM TO 1%. REFER TO "LIGHT FIXTURE SCHEDULE" FOR EXCEPTIONS.**
- D. SENSOR LOCATIONS ARE MINIMUMS. CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 10% ADDITIONAL DEVICES TO COVER DARK SPOTS DISCOVERED DURING CONSTRUCTION FROM FIELD INSTALLED OBSTRUCTIONS. CONTRACTOR SHALL ALSO ALLOW FOR A MOVE OF UP TO 5'-0" IN ANY DIRECTION FOR ALL SENSORS AT NO ADDITIONAL COST TO THE OWNER, TO ALLOW FOR FIELD ADJUSTMENT OF SENSOR PLACEMENTS TO ACHIEVE OPTIMUM PERFORMANCE.**
- E. PROGRAMMING**
- PRIMARY OWNER INTERFACE WITH LIGHTING CONTROLS SHALL BE LOCATED IN THE SERVER ROOM/BACK OF HOUSE. REFER TO PLANS FOR LOCATION. VERIFY WITH OWNER.
 - CONTRACTOR SHALL COORDINATE WITH OWNER TO PROGRAM BASIC SCENES AS DESIRED BY OWNER, SUCH AS HOUSEKEEPING, OPEN HOURS, AFTER-HOURS, ETC.
 - CONTRACTOR SHALL PROGRAM ON/OFF AND DIMMING TIME SCHEDULES AS DESIRED BY OWNER. INCLUDE TIME FOR COORDINATION WITH CONTRACTOR FOR AVL INTEGRATION IN MEETING ROOMS.
 - CONTRACTOR SHALL PROVIDE A MINIMUM OF 3 SITE VISITS BY FACTORY TRAINED PERSONNEL TO ADJUST AND TRAIN THE OWNER ON USE AND MAINTENANCE OF ALL LIGHTING CONTROL COMPONENTS.
- F. COMMISSIONING/ TRAINING**
- CONTRACTOR SHALL PROVIDE, SCHEDULE AND COORDINATE FACTORY COMMISSIONING AND SYSTEM STARTUP FOR LIGHTING CONTROL SYSTEM.
 - CONTRACTOR SHALL ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, MANUFACTURER'S INSTRUCTIONS AND CODE REQUIREMENTS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH IECG SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPES.
 - AFTER COMMISSIONING LIGHTING CONTROLS, CONTRACTOR SHALL PROVIDE A WRITTEN TEST REPORT TO THE OWNER INDICATING THAT ALL LIGHTING CONTROL SYSTEMS HAVE BEEN COMMISSIONED AND TESTED, AND FOUND TO BE FUNCTIONING IN ACCORDANCE WITH CONTRACT DOCUMENT AND CODE REQUIREMENTS.
- G. WARRANTY**
- GC SHALL PROVIDE (1) YEAR FROM SUBMISSION OF COMMISSIONING REPORT A SERVICE WARRANTY COVERING THE INSTALLATION, FUNCTION AND CONTROLLING OF THE COMPLETE LIGHTING FIXTURE AND LIGHTING CONTROLS SYSTEMS. OWNER SHALL PROVIDE BASIC SYSTEM MAINTENANCE AND CARRY INDIVIDUAL FIXTURE MANUFACTURER'S WARRANTIES.

DIGITAL LIGHTING CONTROLS NOTES AND REQUIREMENTS



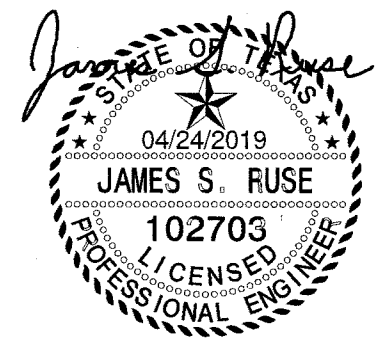
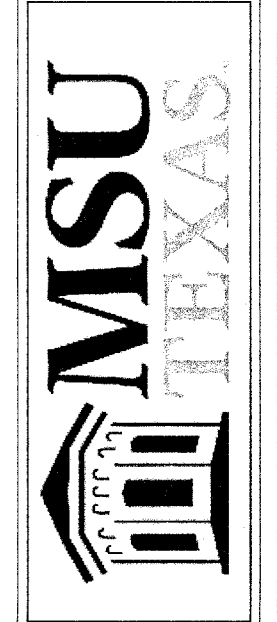
PLAN VIEW EXAMPLES

NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INCLUDED AS PART OF ALTERNATE #2

- EXISTING PANEL "2A"
- EXISTING PANEL "2B"
- EXISTING PANEL "2D"
- BALCONY
- EXISTING XFMR "T2"
- EXISTING XFMR "T4"
- EXISTING "CLEAN POWER UNIT"
- EXISTING PANEL "2C"

1 SECOND FLOOR LIGHTING PLAN
1/8" = 1'-0"

RENOVATION OF J.S. BRIDWELL HALL FOR
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3410 TAFT BOULEVARD



Summit
CONSULTANTS, INC.
Texas BPE Registration # F-207
1300 Summit Avenue Suite 500 Fort Worth, Texas 76102
4144 N. Central Expwy Suite 835 Dallas, Texas 75204
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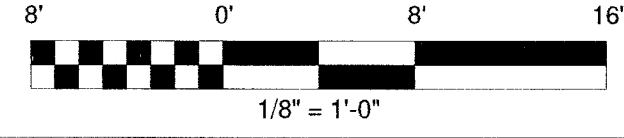
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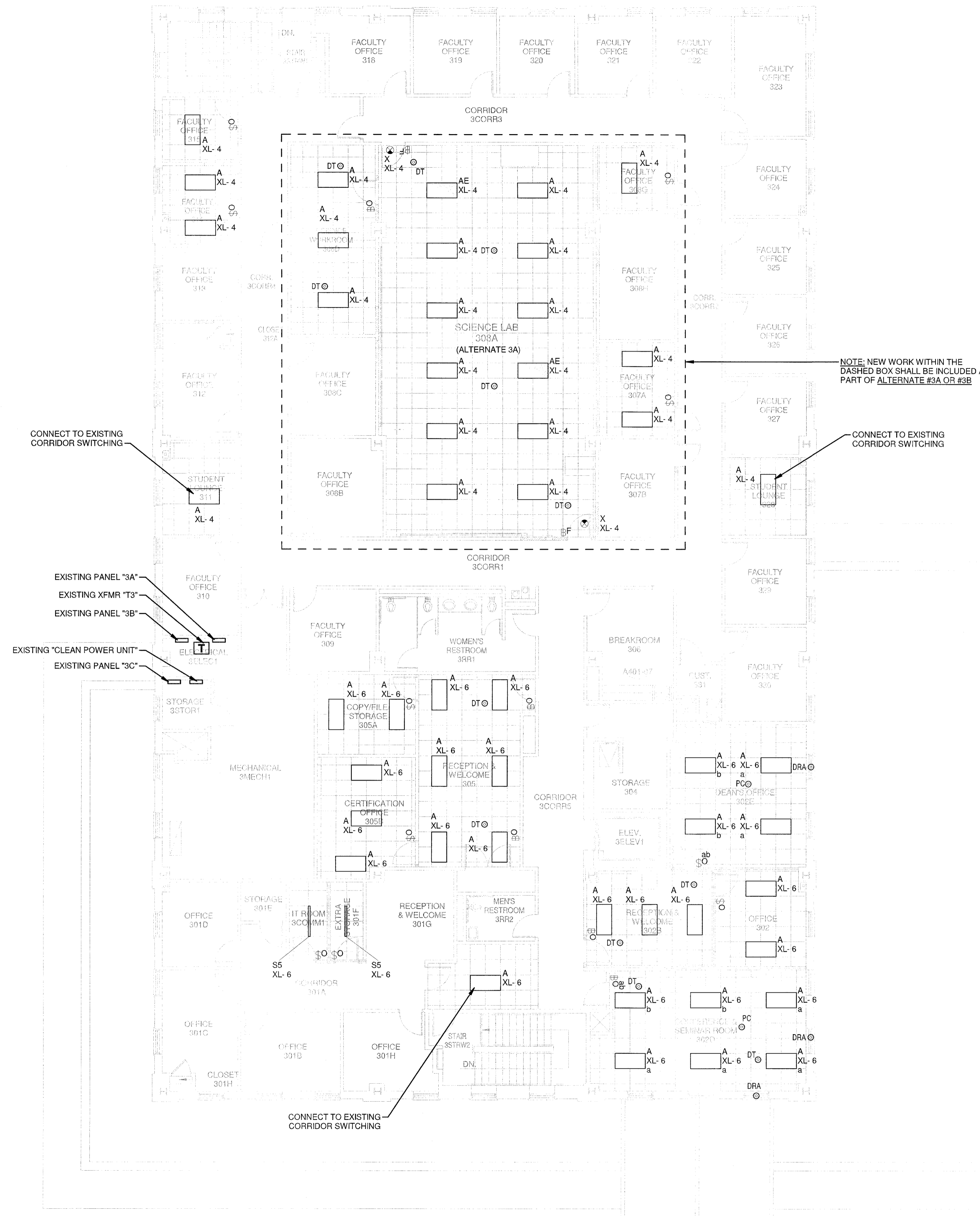
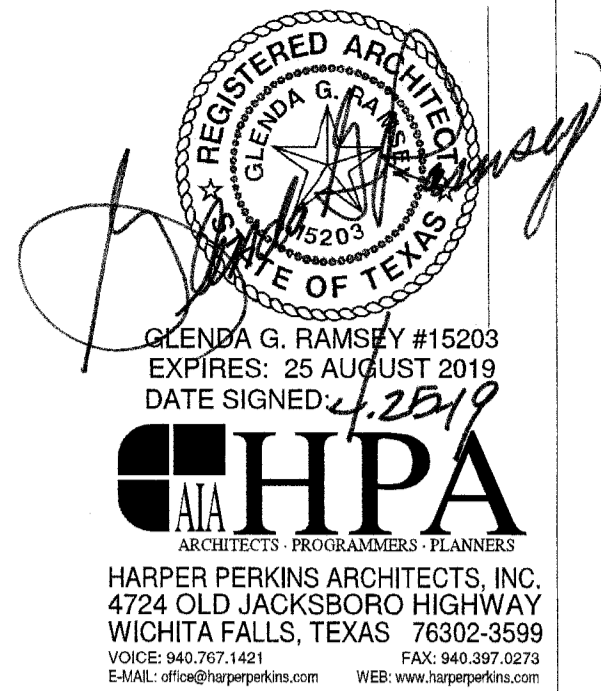
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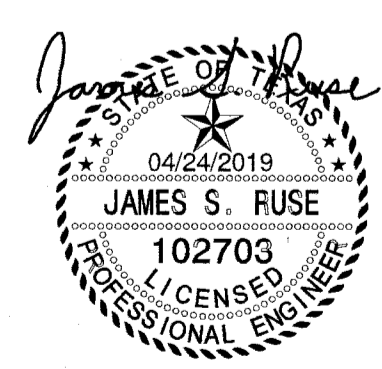
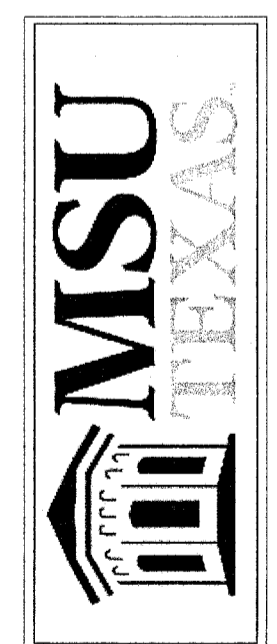
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LIGHTING GENERAL NOTES

1. **CIRCUIT NUMBERS** SHOWN ARE ARBITRARY AND ONLY SERVE TO INDICATE GROUPING OF DEVICES ON A SINGLE 1P20A CIRCUIT, UNLESS NOTED OTHERWISE. "XL" INDICATES NEAREST EXISTING 277V LIGHTING CIRCUIT.
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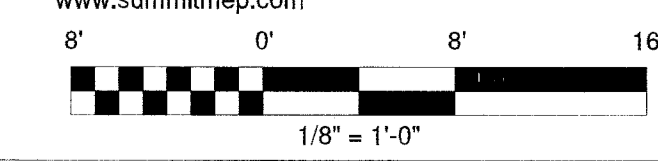
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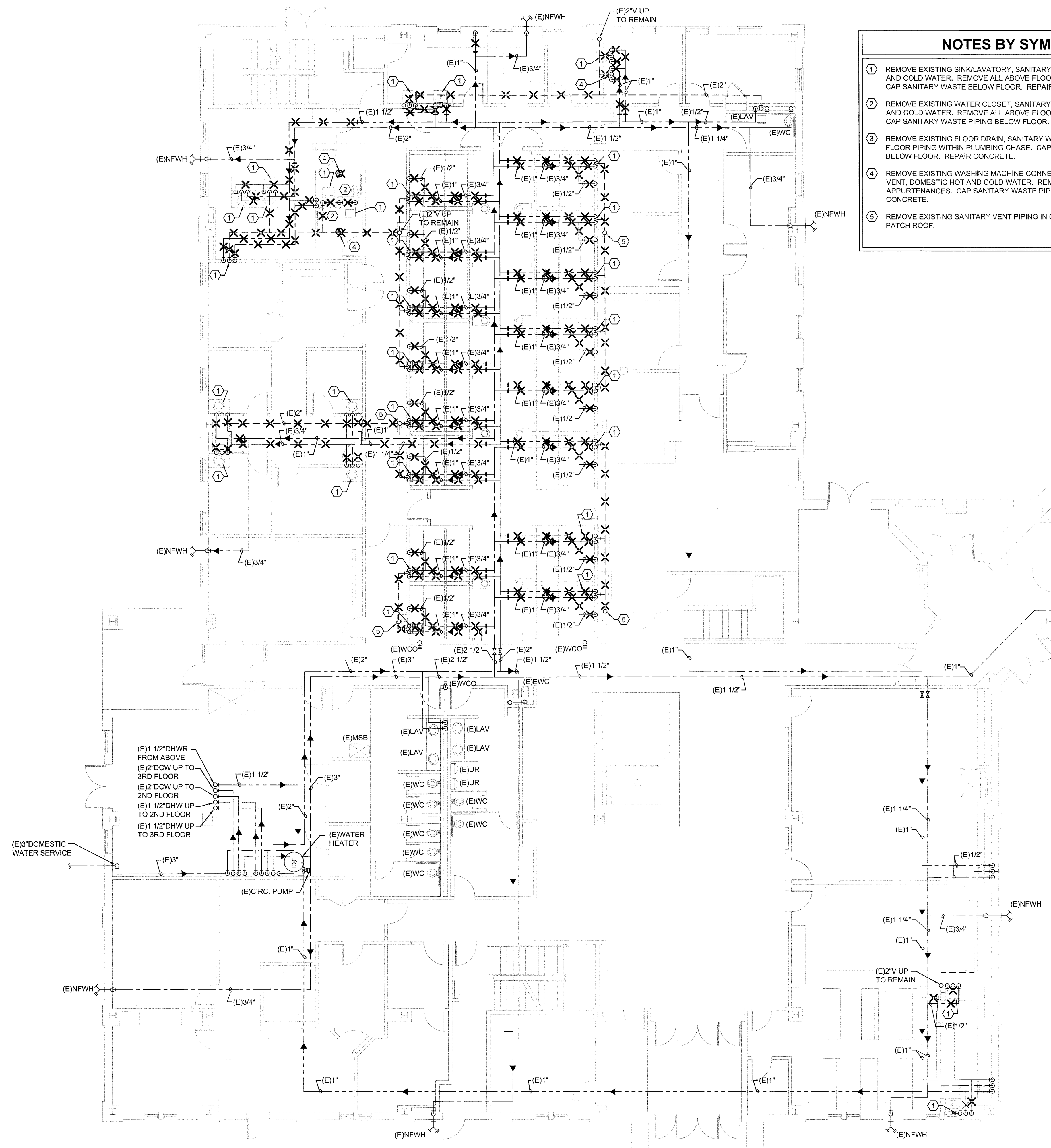
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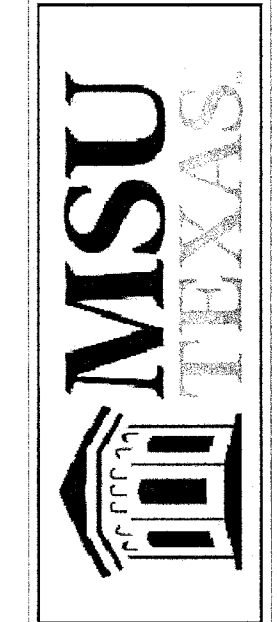
E3.3

① **THIRD FLOOR LIGHTING PLAN**
 1/8" = 1'-0"

- NOTES BY SYMBOL "#"**
- 1 REMOVE EXISTING SINK/LAVATORY, SANITARY WASTE AND VENT, DOMESTIC HOT AND COLD WATER. REMOVE ALL ABOVE FLOOR PIPING AND APPURTENANCES. CAP SANITARY WASTE BELOW FLOOR. REPAIR CONCRETE.
 - 2 REMOVE EXISTING WATER CLOSET, SANITARY WASTE AND VENT, DOMESTIC HOT AND COLD WATER. REMOVE ALL ABOVE FLOOR PIPING AND APPURTENANCES. CAP SANITARY WASTE PIPING BELOW FLOOR. REPAIR CONCRETE.
 - 3 REMOVE EXISTING FLOOR DRAIN, SANITARY WASTE AND VENT. REMOVE ABOVE FLOOR PIPING WITHIN PLUMBING CHASE. CAP SANITARY WASTE AND VENT PIPING BELOW FLOOR. REPAIR CONCRETE.
 - 4 REMOVE EXISTING WASHING MACHINE CONNECTION BOX, SANITARY WASTE AND VENT, DOMESTIC HOT AND COLD WATER. REMOVE ALL ABOVE FLOOR PIPING AND APPURTENANCES. CAP SANITARY WASTE PIPING BELOW FLOOR. REPAIR CONCRETE.
 - 5 REMOVE EXISTING SANITARY VENT PIPING IN CEILING AND UP THRU TO ROOF. PATCH ROOF.

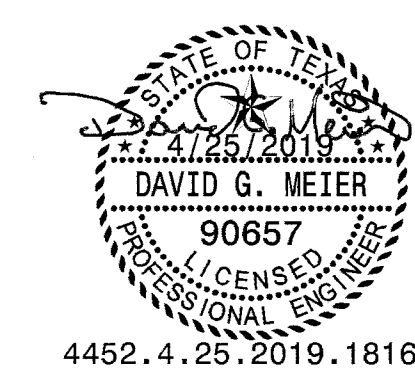


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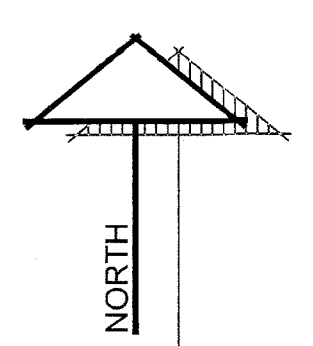
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FIRST FLOOR PLUMBING DEMOLITION PLAN

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

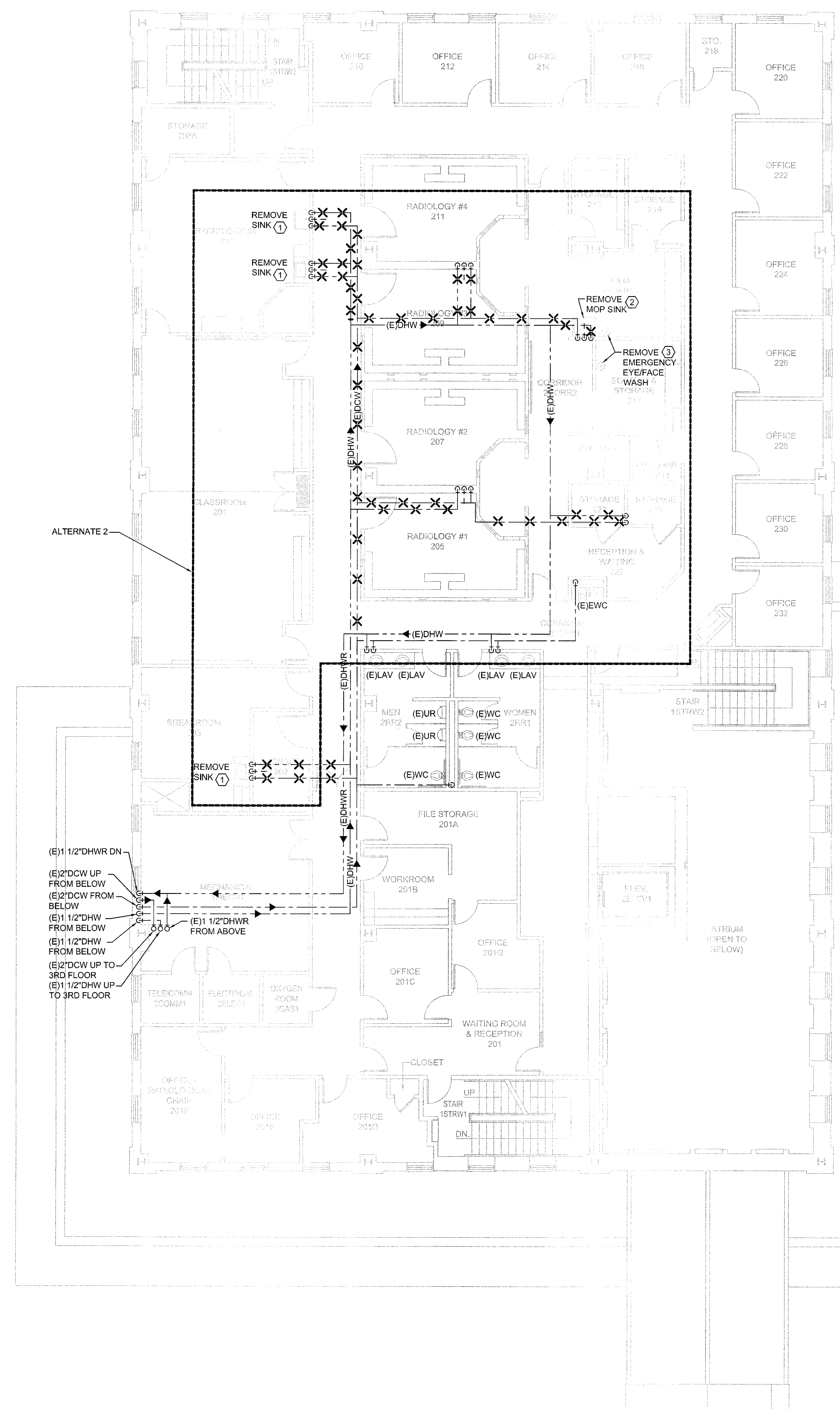


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SHEET SIZE = ARCHD 24X36

SHEET SIZE ARCH D 24x36

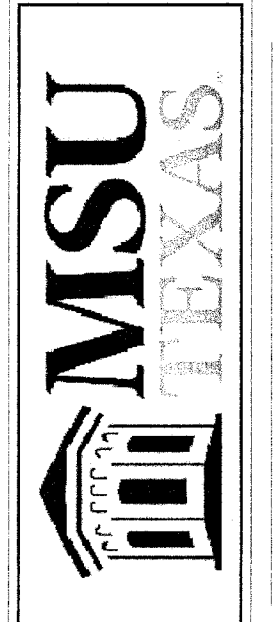


- NOTES BY SYMBOL "#"**
- ① REMOVE EXISTING SINK, DRAIN, AND APPURTENANCES. REMOVE WATER AND VENT TO ABOVE CEILING; REMOVE WASTE TO BELOW FLOOR AND CAP. REPAIR CONCRETE.
 - ② REMOVE FLOOR MOUNTED MOP SINK BASIN. REMOVE BASIN, BELOW FLOOR P-TRAP, FAUCET AND APPURTENANCES. CAP WASTE BELOW FLOOR. REPAIR CONCRETE.
 - ③ REMOVE EMERGENCY EYE/FACE WASH. REMOVE WATER AND DRAIN.

GLENDA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 4/23/19

 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 940.767.1421 FAX: 940.397.0273
 E-MAIL: cph@harperperkins.com WEB: www.harperperkins.com

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NO.	DESCRIPTION	DATE

DAVID G. MEIER
 90657
 LICENSED PROFESSIONAL ENGINEER
 4452.4.25.2019.18163

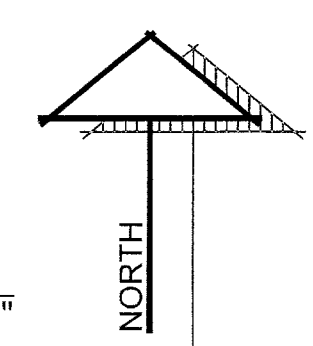
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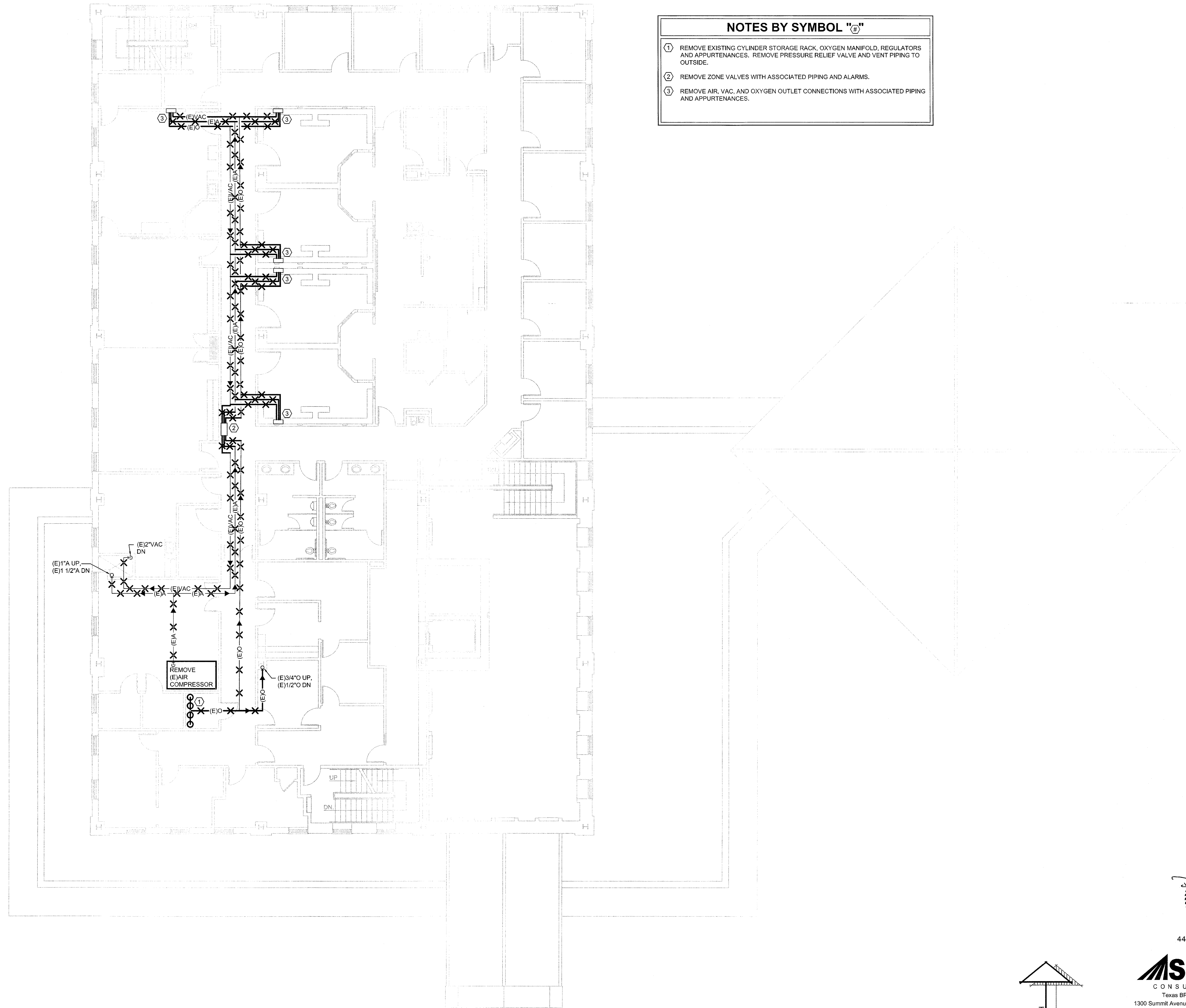
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SECOND FLOOR PLUMBING DEMOLITION PLAN

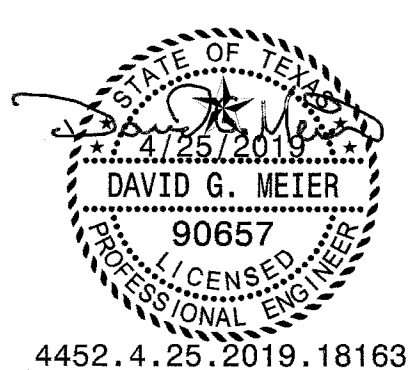
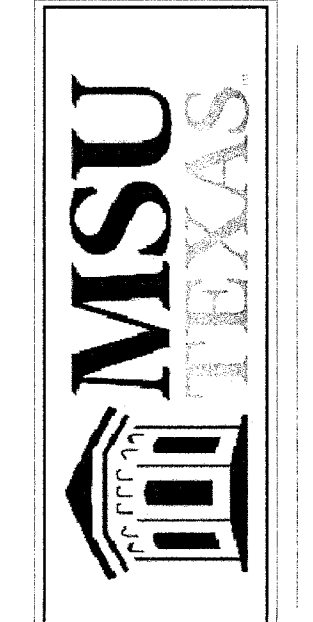
SCALE: 1/8" = 1'-0"



- NOTES BY SYMBOL "#"**
- ① REMOVE EXISTING CYLINDER STORAGE RACK, OXYGEN MANIFOLD, REGULATORS AND APPURTENANCES. REMOVE PRESSURE RELIEF VALVE AND VENT PIPING TO OUTSIDE.
 - ② REMOVE ZONE VALVES WITH ASSOCIATED PIPING AND ALARMS.
 - ③ REMOVE AIR, VAC, AND OXYGEN OUTLET CONNECTIONS WITH ASSOCIATED PIPING AND APPURTENANCES.



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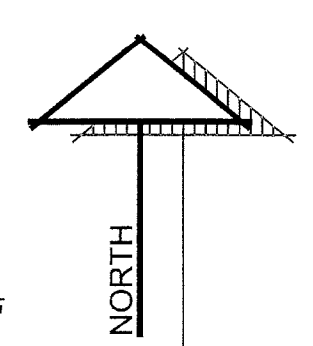
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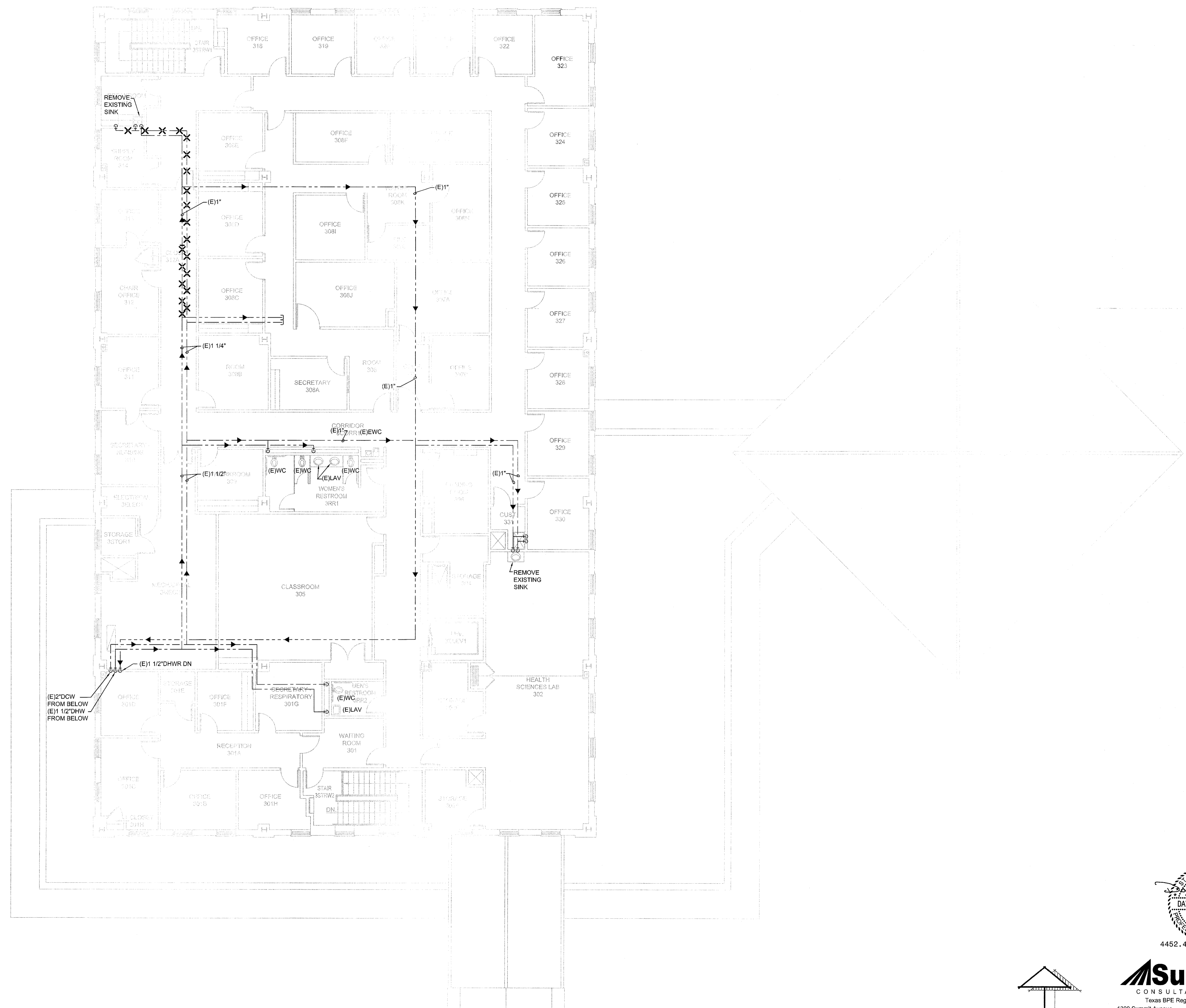
SECOND FLOOR MEDICAL GAS DEMOLITION PLAN

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

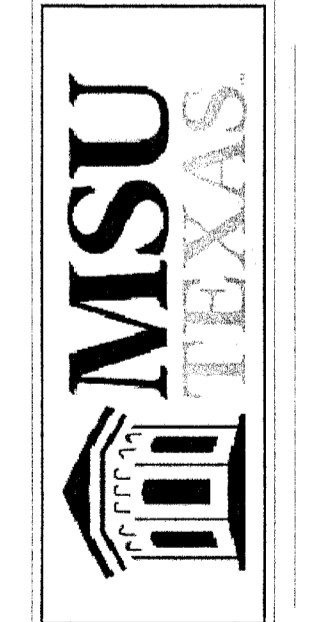


SHEET SIZE = ARCH'D 24X36

REGISTERED ARCHITECT
 STATE OF TEXAS
 #203
 2019
 4.25.2019
 GLENDA G. RAMSEY #15203
 EXPIRES: 25 AUGUST 2019
 DATE SIGNED: 4.25.2019
HPA
 ARCHITECTS - PROGRAMMERS - PLANNERS
 HARPER PERKINS ARCHITECTS, INC.
 4724 OLD JACKSBORO HIGHWAY
 WICHITA FALLS, TEXAS 76302-3599
 VOICE: 840.787.1421 FAX: 840.397.0273
 EMAIL: office@hpaarchitects.com WEB: www.hpaarchitects.com



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 WICHITA FALLS, TEXAS
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DATE: 1 APRIL 2019

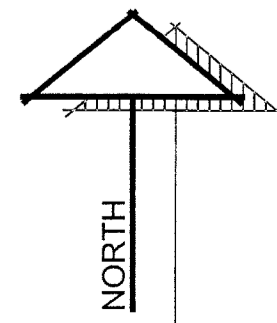
REVISIONS

NO.	DESCRIPTION	DATE

STATE OF TEXAS
 2019
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 DAVID G. METER
 90657
 LICENSED PROFESSIONAL ENGINEER
 4452.4.25.2019.18163

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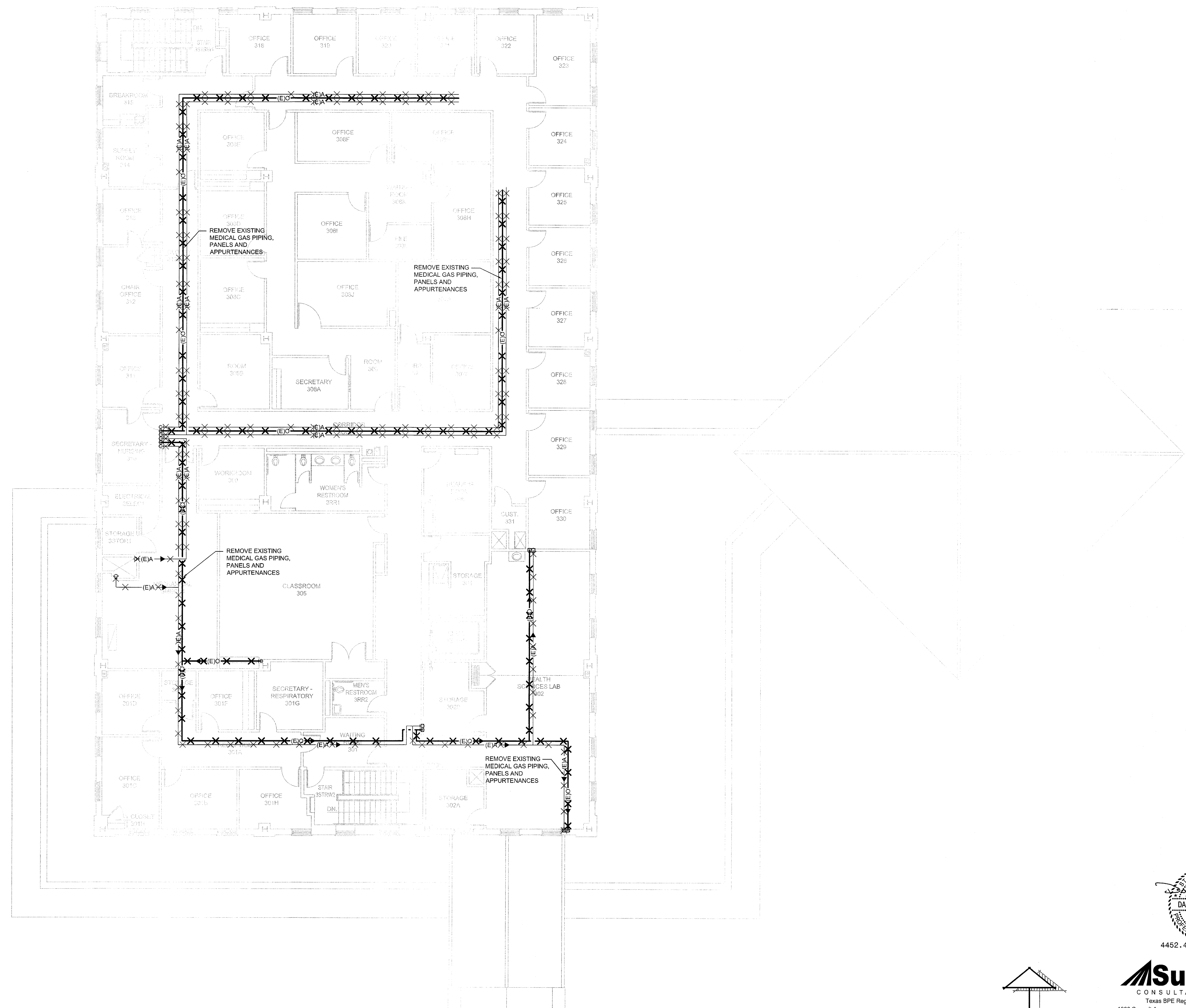
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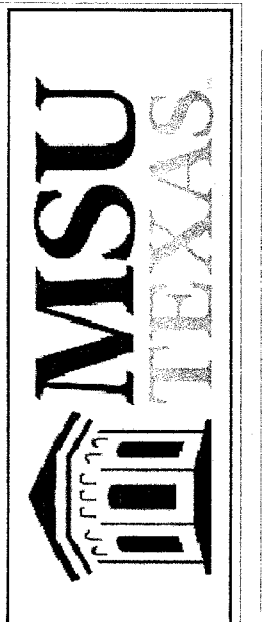
THIRD FLOOR PLUMBING DEMOLITION PLAN

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

SHEET SIZE ARCH'D 24X36



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 3410 TAFT BOULEVARD

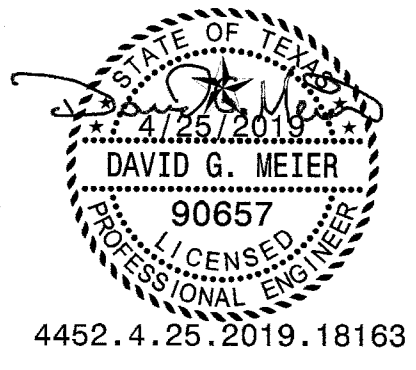


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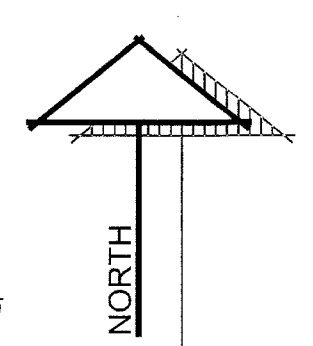
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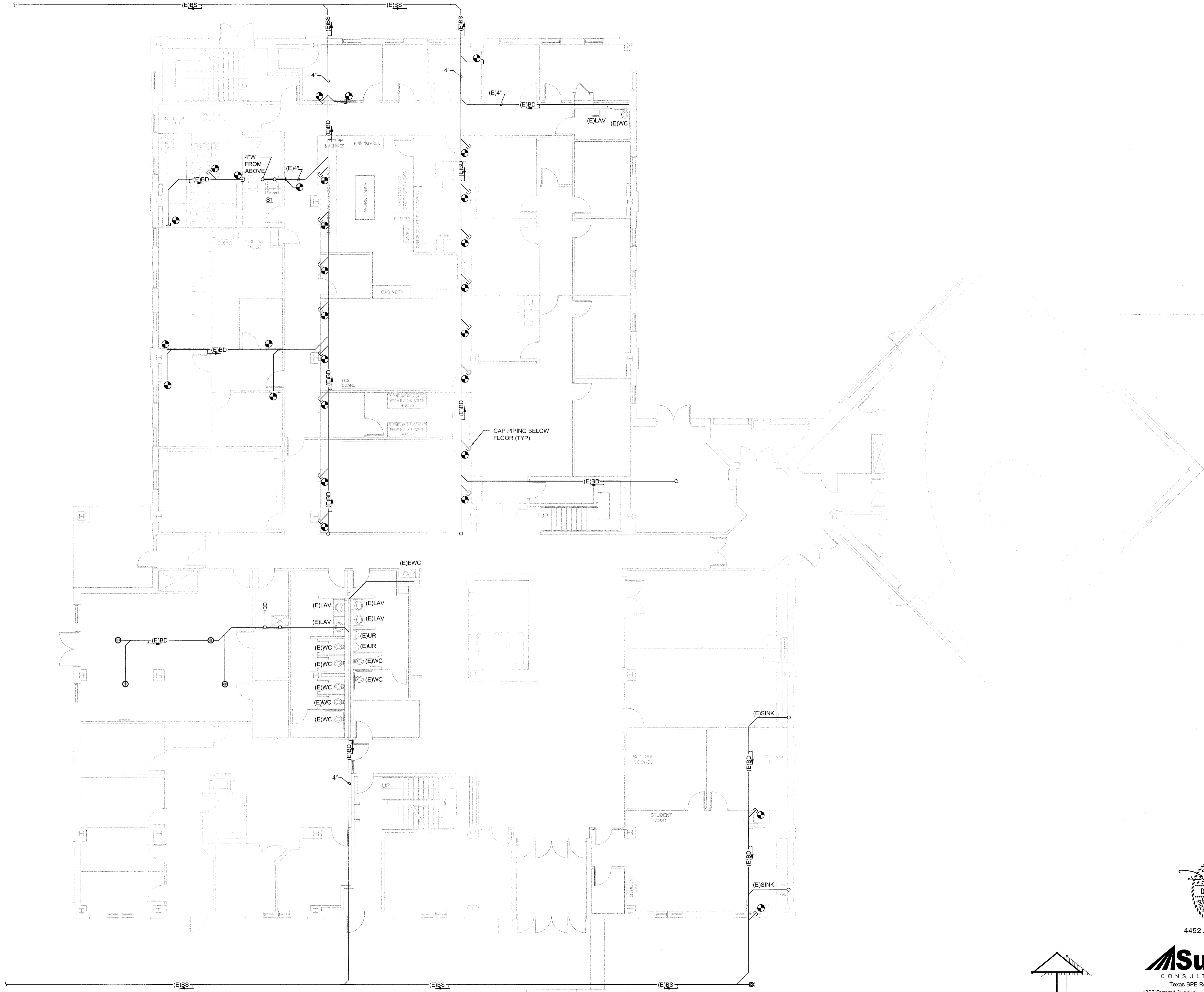
P103b

THIRD FLOOR MEDICAL GAS DEMOLITION PLAN

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



SHEET SIZE: ARCH D 24X36



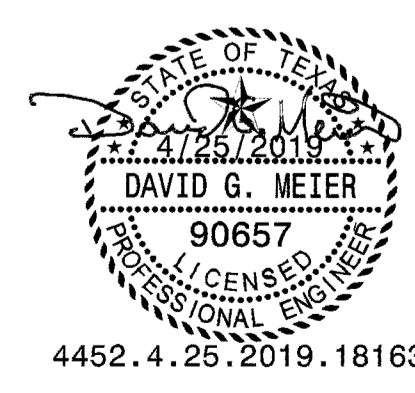
RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 3410 TAFT BOULEVARD
 WICHITA FALLS, TEXAS



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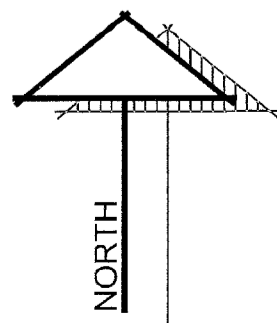
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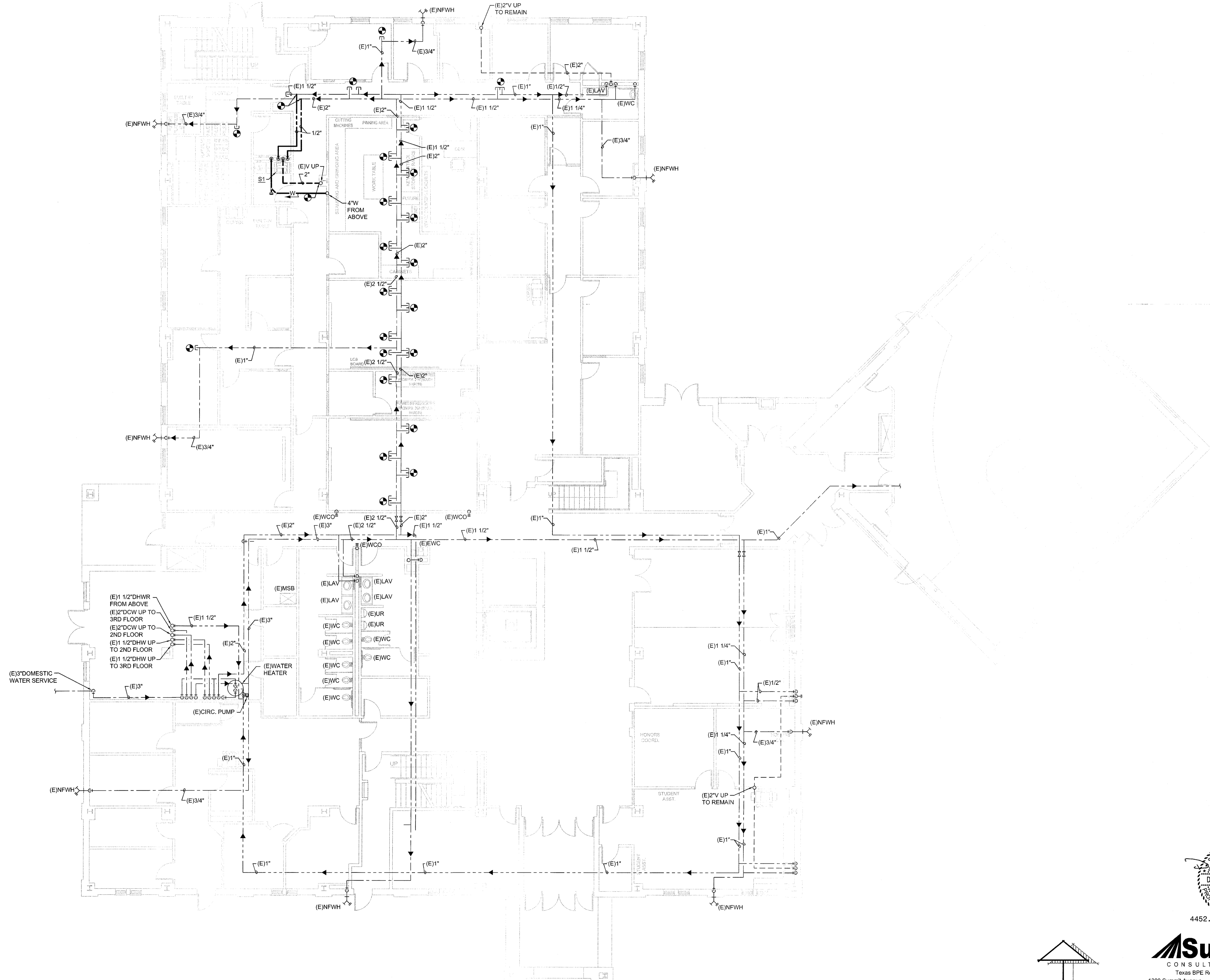
P200

FIRST FLOOR PLUMBING PLAN

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

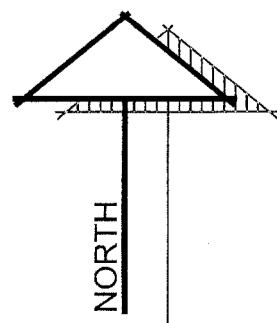


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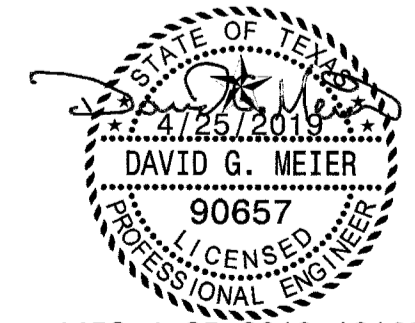


FIRST FLOOR PLUMBING PLAN

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



RENOVATION OF J.S. BRIDWELL HALL FOR
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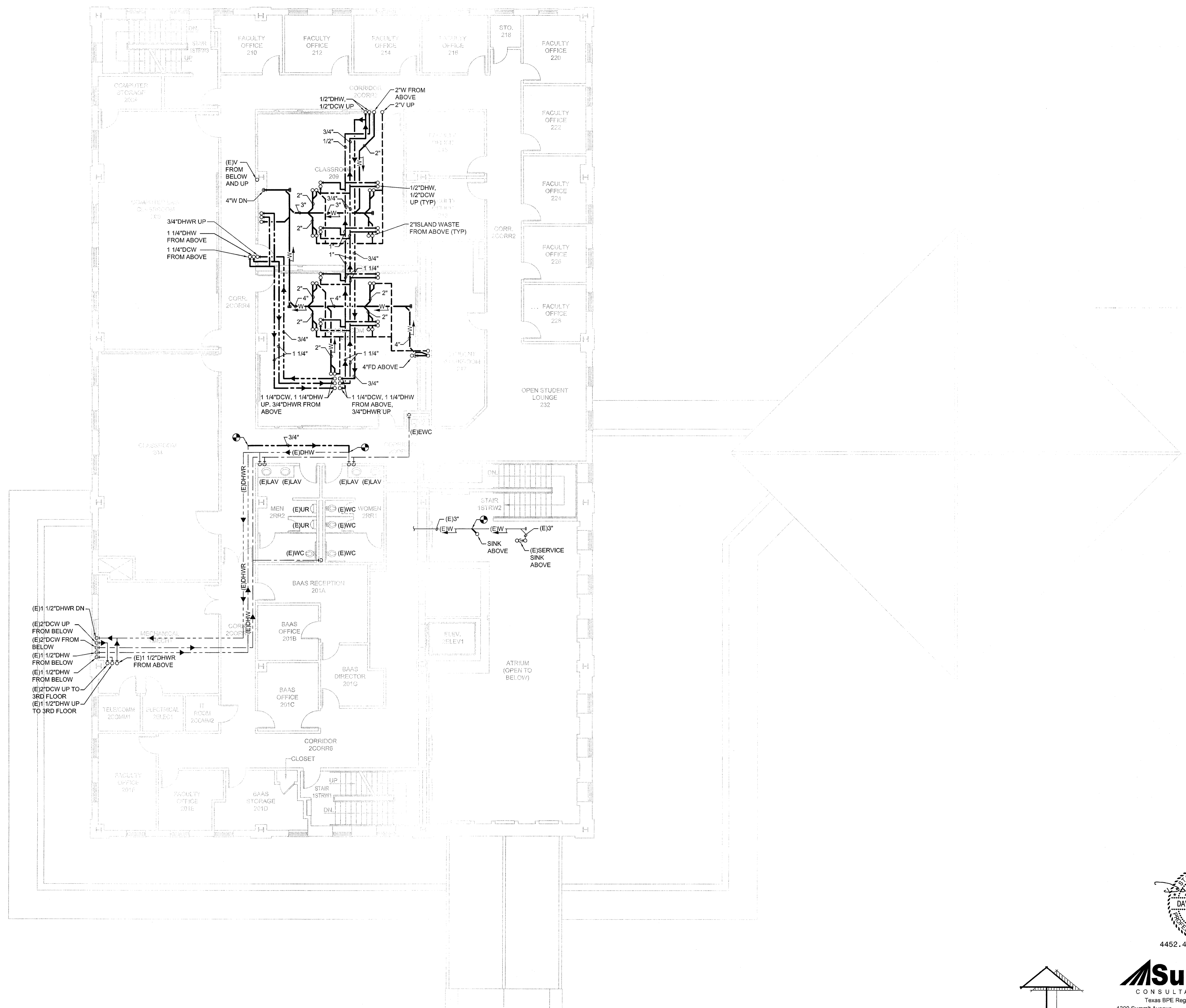
NO.	DESCRIPTION	DATE

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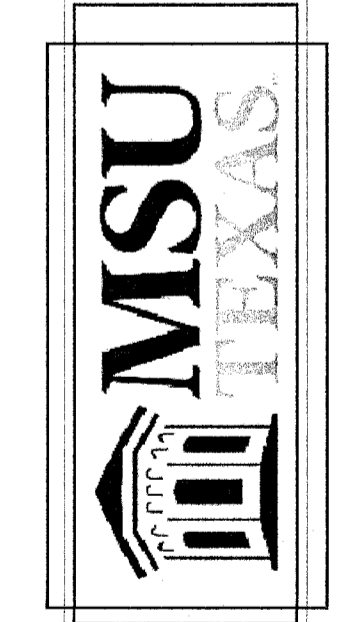
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P201

19. 11. 2019 10:41 AM 19. 11. 2019 10:41 AM 19. 11. 2019 10:41 AM
 SHEET SIZE ARCHD 24X36



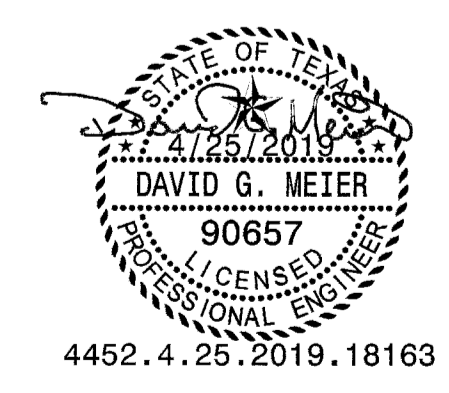
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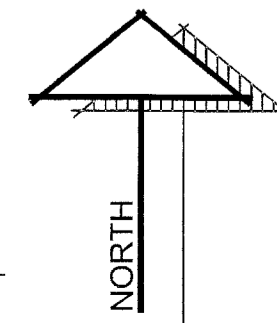
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P202

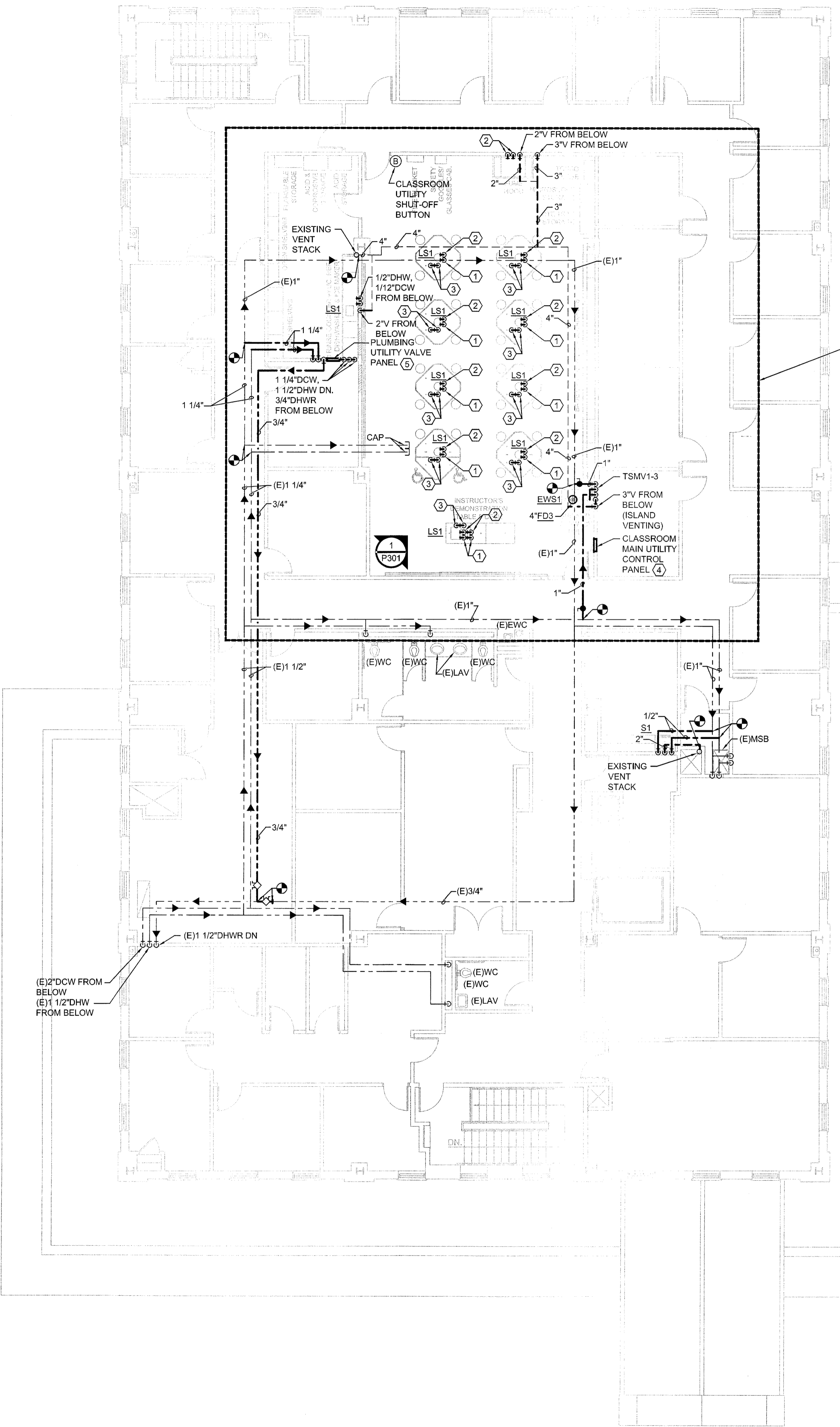
SECOND FLOOR PLUMBING PLAN

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



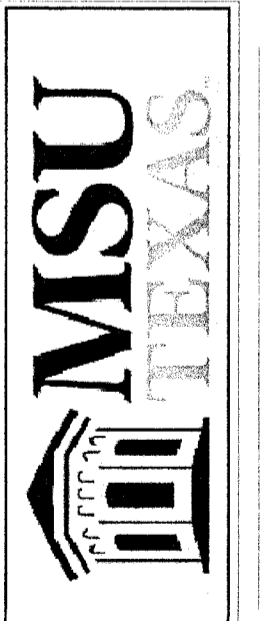
SHEET SIZE ARCHD 24X36

- NOTES BY SYMBOL "P"**
- 1" DCW FROM BELOW. EXTEND TO SINK AND DN TO ADJACENT LAB TABLE.(LOOPED).
 - 1" DHW FROM BELOW. EXTEND TO SINK AND DN TO ADJACENT LAB TABLE.(LOOPED).
 - 2" ISLAND SINK VENTING SYSTEM (IPC SECTION 913).
 - CLASSROOM UTILITY SHUT-OFF CONTROL PANEL (ISOLATES CLASSROOM LAB BENCHES FROM ELECTRICAL POWER, DOMESTIC HOT AND COLD WATER).
 - CLASSROOM PLUMBING UTILITY SOLENOID PANEL. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. AMERICAN GAS SAFETY, MERLIN OR EQUAL.



ALTERNATE 3B

RENOVATION OF J.S. BRIDWELL HALL FOR
MIDWESTERN STATE UNIVERSITY
 WICHITA FALLS, TEXAS
 3410 TAFT BOULEVARD

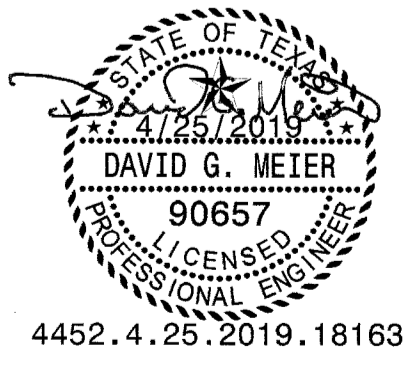


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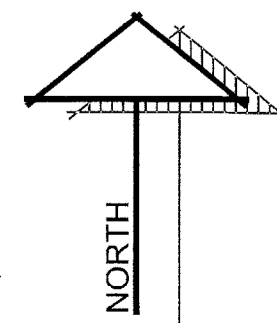
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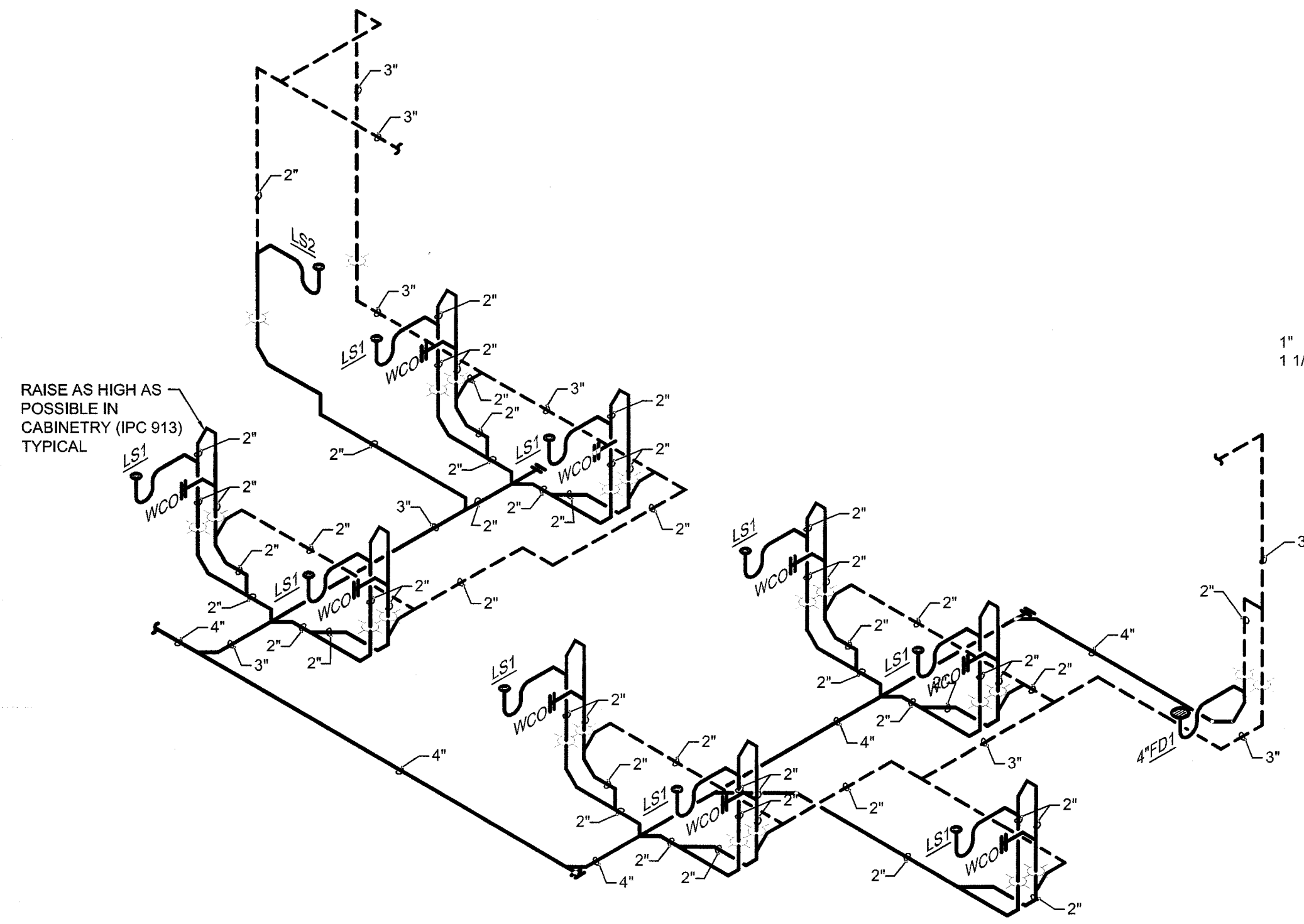
P203

THIRD FLOOR PLUMBING PLAN

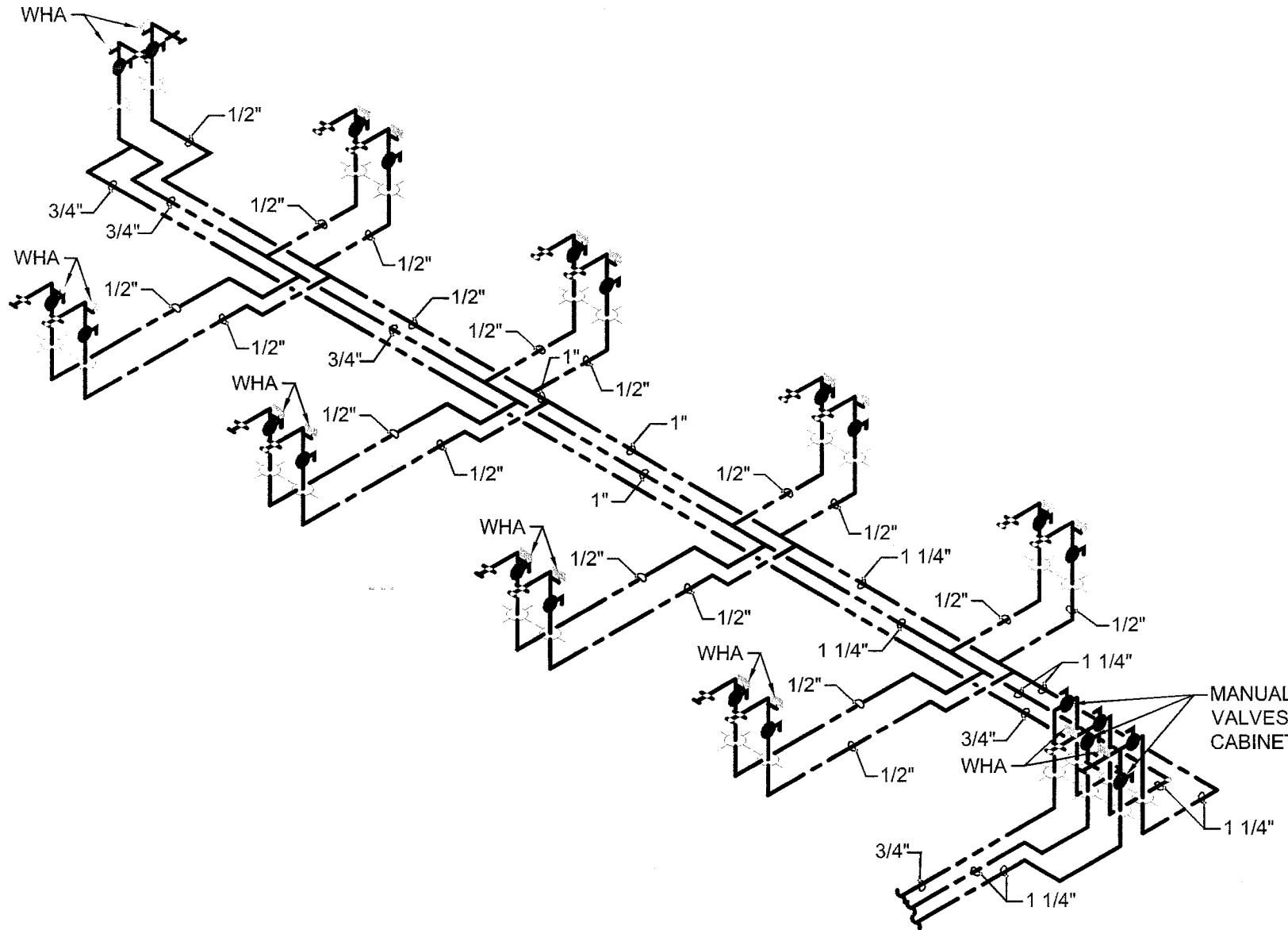
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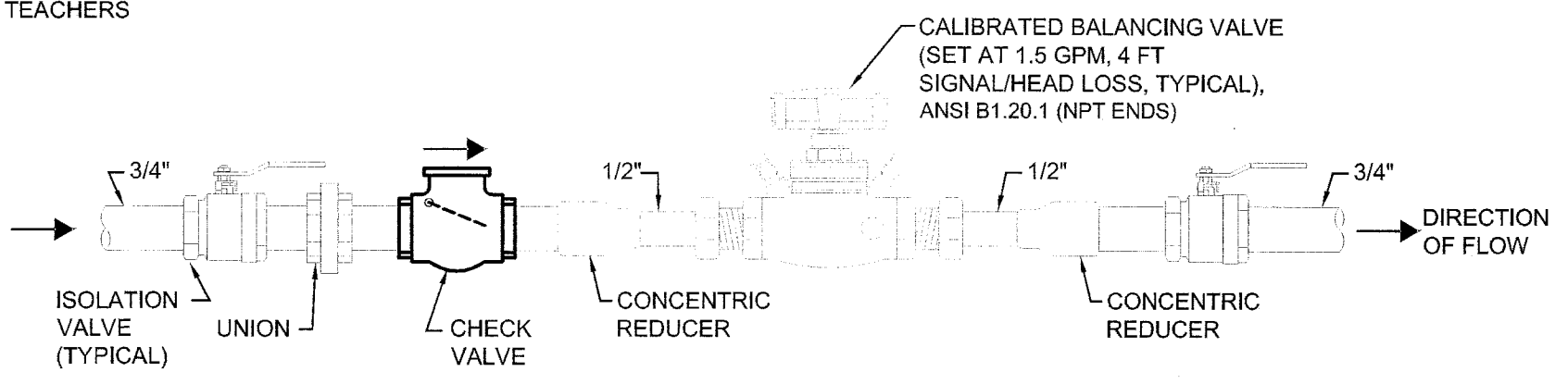
SHEET SIZE ARCH'D 2X36



PIPE CLEANOUT ON VENT SIDE OF ISLAND
 VENT (ROD THE THE VENT PIPING PER IPC 913)
SANITARY WASTE AND VENT

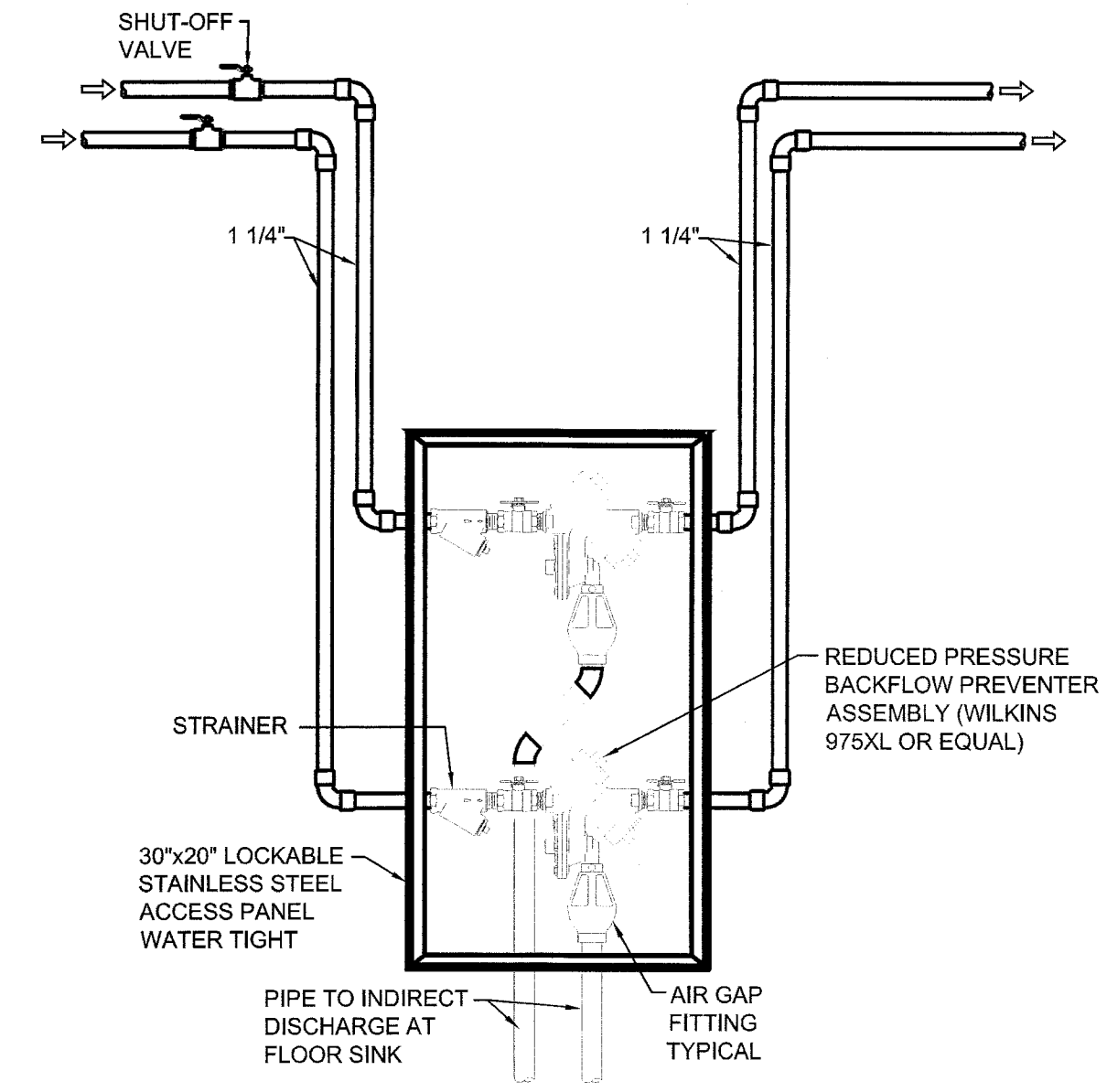


DOMESTIC WATER

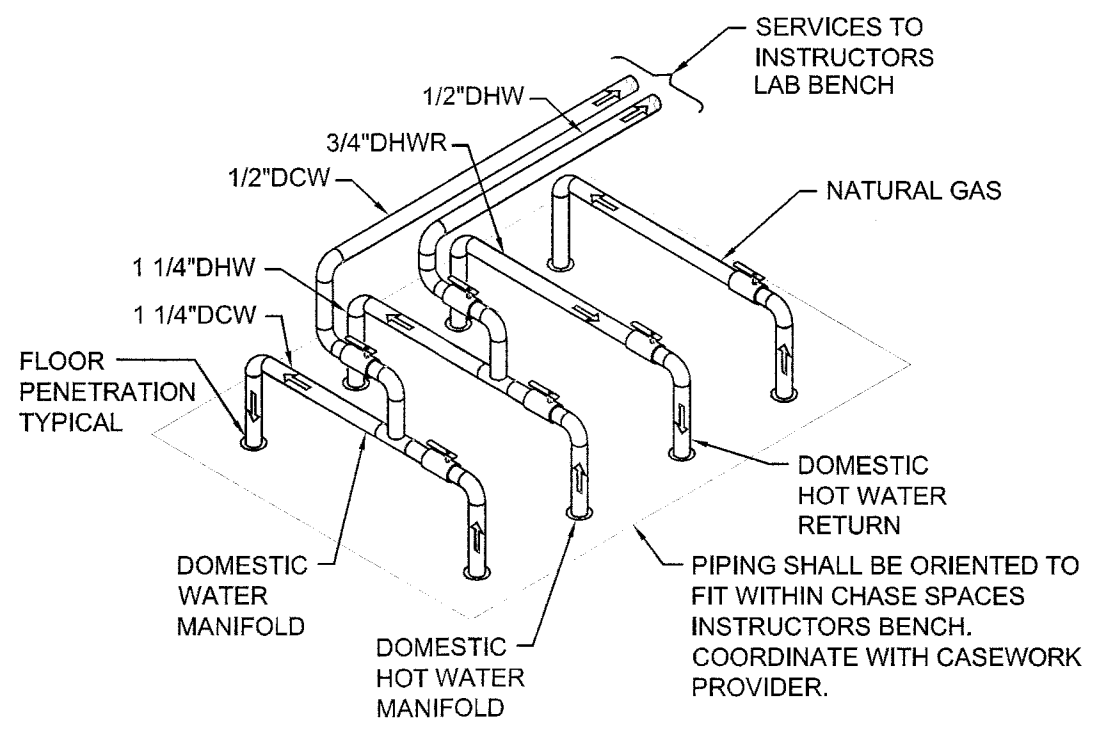


2
 P301 NO SCALE
CALIBRATED BALANCING VALVE DETAIL

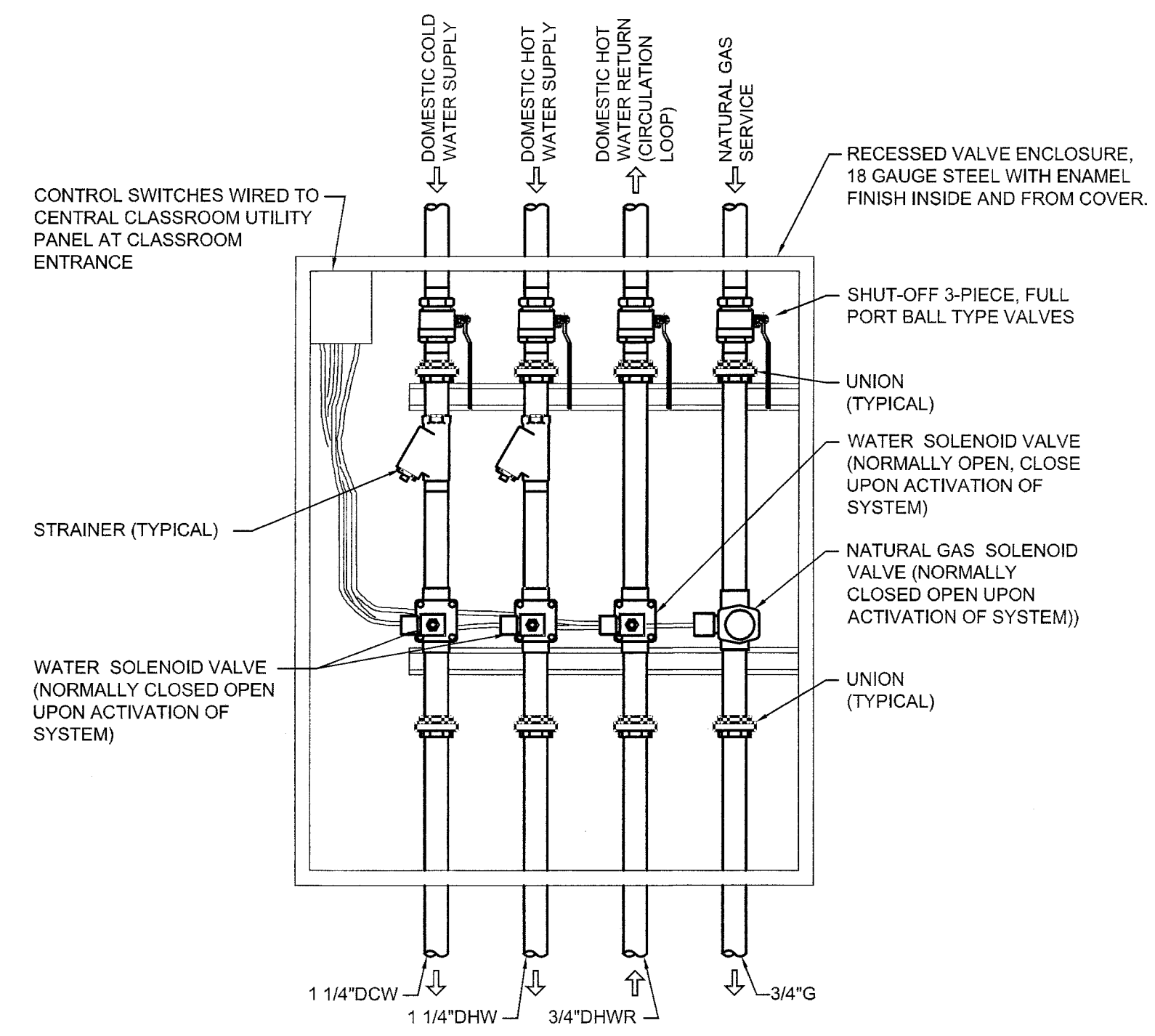
1
 P301 NO SCALE
PLUMBING ISOMETRIC RISER DIAGRAM



3
 P301 NO SCALE
LABORATORY CLASSROOM DOMESTIC HOT AND COLD WATER BACKFLOW PREVENTION DETAIL

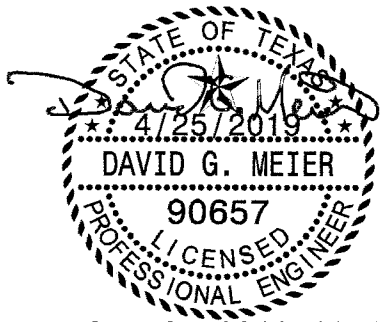
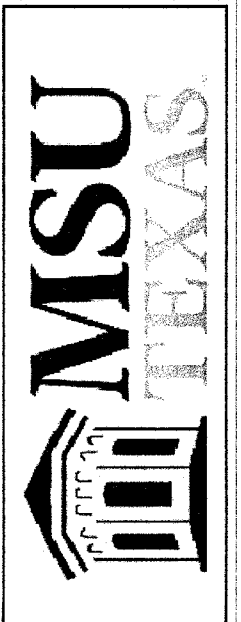


4
 P301 NO SCALE
LABORATORY INSTRUCTORS BENCH PIPING



5
 P301 NO SCALE
CLASSROOM EMERGENCY UTILITY VALVE CABINET

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P301

SHEET SIZE ARCH D 24X36