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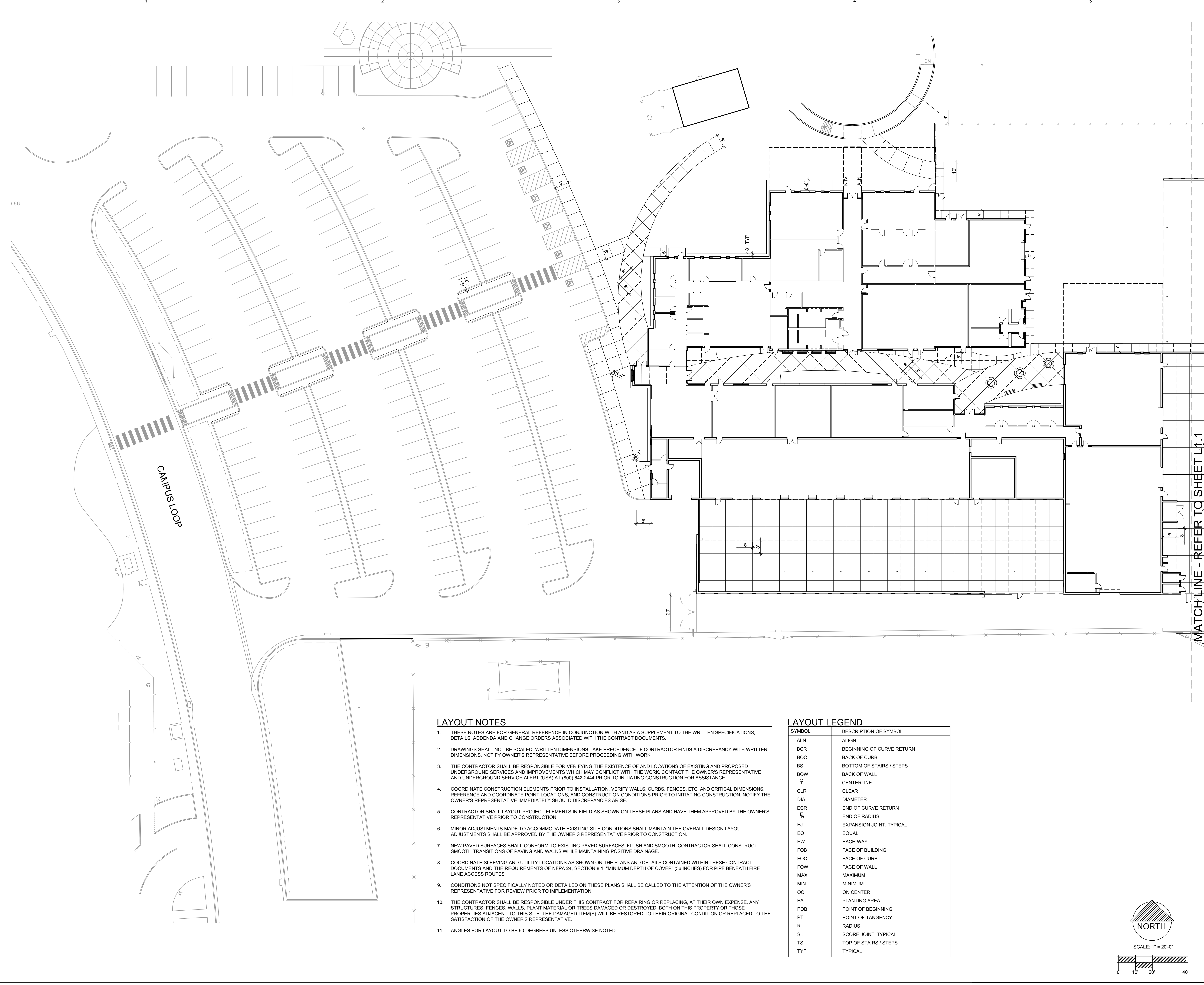
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MATCH LINE - REFER TO SHEET L1.1

LAYOUT NOTES

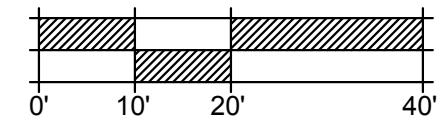
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4. COORDINATE CONSTRUCTION ELEMENTS PRIOR TO INSTALLATION. VERIFY WALLS, CURBS, FENCES, ETC. AND CRITICAL DIMENSIONS, REFERENCE AND COORDINATE POINT LOCATIONS, AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCIES ARISE.
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11. ANGLES FOR LAYOUT TO BE 90 DEGREES UNLESS OTHERWISE NOTED.

LAYOUT LEGEND

SYMBOL	DESCRIPTION OF SYMBOL
ALN	ALIGN
BCR	BEGINNING OF CURVE RETURN
BOC	BACK OF CURB
BS	BOTTOM OF STAIRS / STEPS
BOW	BACK OF WALL
C	CENTERLINE
CLR	CLEAR
DIA	DIAMETER
EOR	END OF CURVE RETURN
ER	END OF RADIUS
EJ	EXPANSION JOINT, TYPICAL
EQ	EQUAL
EW	EACH WAY
FOB	FACE OF BUILDING
FOC	FACE OF CURB
FOW	FACE OF WALL
MAX	MAXIMUM
MIN	MINIMUM
OC	ON CENTER
PA	PLANTING AREA
POB	POINT OF BEGINNING
PT	POINT OF TANGENCY
R	RADIUS
SL	SCORE JOINT, TYPICAL
TS	TOP OF STAIRS / STEPS
TYP	TYPICAL



SCALE: 1" = 20'-0"



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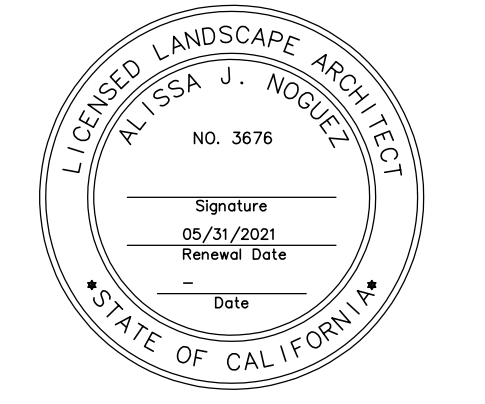
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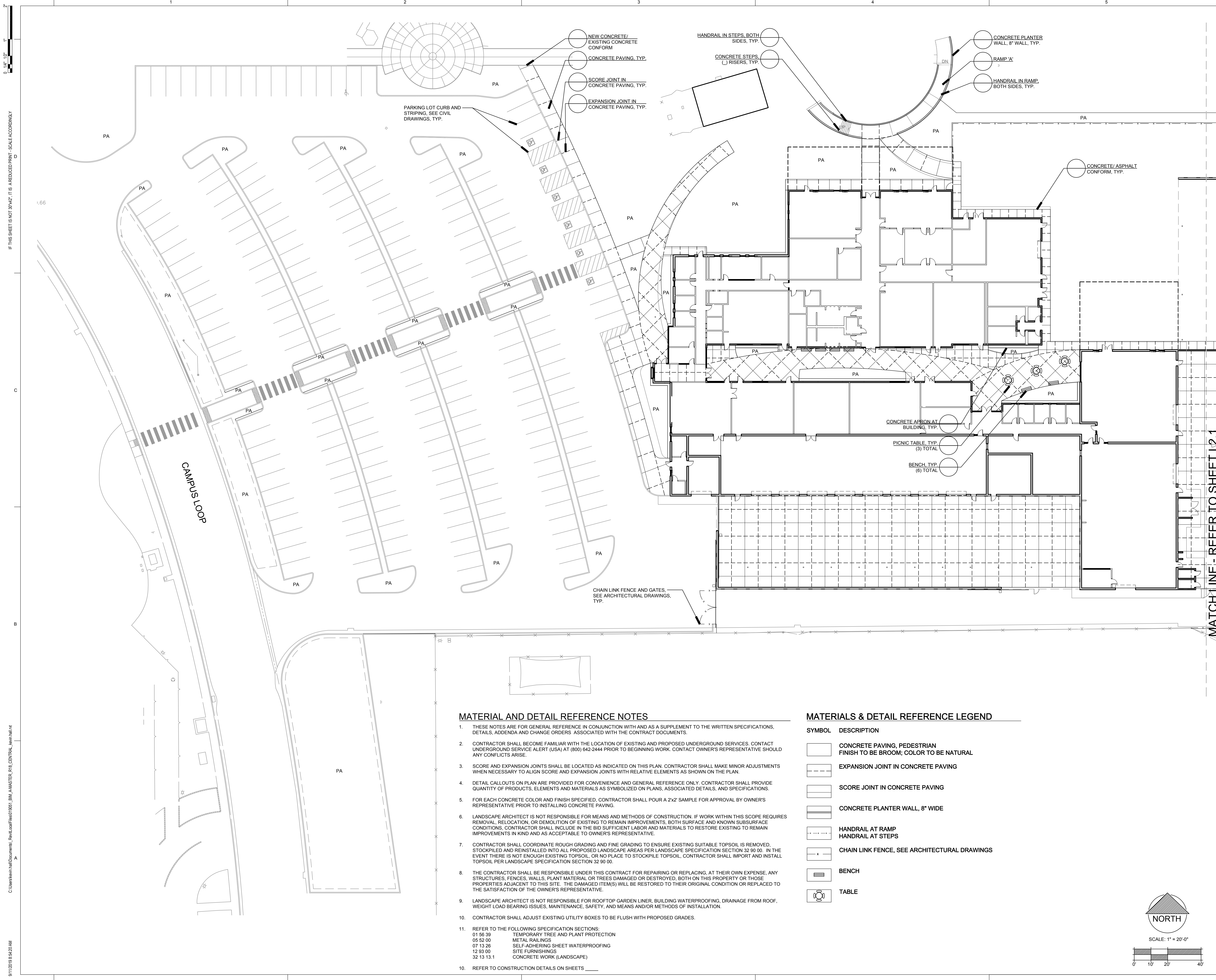
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TITLE
LAYOUT PLAN

SHEET
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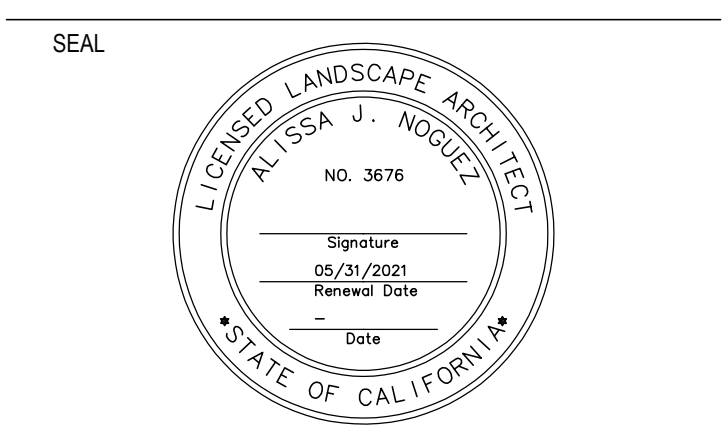
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TITLE
**MATERIALS AND DETAIL
 REFERENCE PLAN**

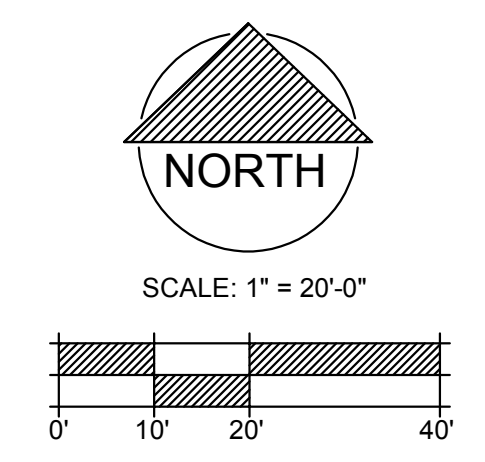
SHEET
L2.0

MATERIAL AND DETAIL REFERENCE NOTES

- THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO BEGINNING WORK. CONTACT OWNER'S REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
- SCORE AND EXPANSION JOINTS SHALL BE LOCATED AS INDICATED ON THIS PLAN. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS WHEN NECESSARY TO ALIGN SCORE AND EXPANSION JOINTS WITH RELATIVE ELEMENTS AS SHOWN ON THE PLAN.
- DETAIL CALLOUTS ON PLAN ARE PROVIDED FOR CONVENIENCE AND GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE QUANTITY OF PRODUCTS, ELEMENTS AND MATERIALS AS SYMBOLIZED ON PLANS, ASSOCIATED DETAILS, AND SPECIFICATIONS.
- FOR EACH CONCRETE COLOR AND FINISH SPECIFIED, CONTRACTOR SHALL POUR A 2'x2' SAMPLE FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLING CONCRETE PAVING.
- LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. IF WORK WITHIN THIS SCOPE REQUIRES REMOVAL, RELOCATION, OR DEMOLITION OF EXISTING TO REMAIN IMPROVEMENTS, BOTH SURFACE AND KNOWN SUBSURFACE CONDITIONS, CONTRACTOR SHALL INCLUDE IN THE BID SUFFICIENT LABOR AND MATERIALS TO RESTORE EXISTING TO REMAIN IMPROVEMENTS IN KIND AND AS ACCEPTABLE TO OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO ALL PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION SECTION 32 90 00. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION SECTION 32 90 00.
- THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, ANY STRUCTURES, FENCES, WALLS, PLANT MATERIAL OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR ROOFTOP GARDEN LINER, BUILDING WATERPROOFING, DRAINAGE FROM ROOF, WEIGHT LOAD BEARING ISSUES, MAINTENANCE, SAFETY, AND MEANS AND/OR METHODS OF INSTALLATION.
- CONTRACTOR SHALL ADJUST EXISTING UTILITY BOXES TO BE FLUSH WITH PROPOSED GRADES.
- REFER TO THE FOLLOWING SPECIFICATION SECTIONS:
 01 56 30 TEMPORARY TREE AND PLANT PROTECTION
 05 52 00 METAL RAILINGS
 07 13 26 SELF-ADHERING SHEET WATERPROOFING
 12 93 00 SITE FURNISHINGS
 32 13 13.1 CONCRETE WORK (LANDSCAPE)
- REFER TO CONSTRUCTION DETAILS ON SHEETS _____

MATERIALS & DETAIL REFERENCE LEGEND

SYMBOL	DESCRIPTION
[Pattern]	CONCRETE PAVING, PEDESTRIAN FINISH TO BE BROOM; COLOR TO BE NATURAL
[Pattern]	EXPANSION JOINT IN CONCRETE PAVING
[Pattern]	SCORE JOINT IN CONCRETE PAVING
[Pattern]	CONCRETE PLANTER WALL, 8" WIDE
[Pattern]	HANDRAIL AT RAMP HANDRAIL AT STEPS
[Symbol]	CHAIN LINK FENCE, SEE ARCHITECTURAL DRAWINGS
[Symbol]	BENCH
[Symbol]	TABLE

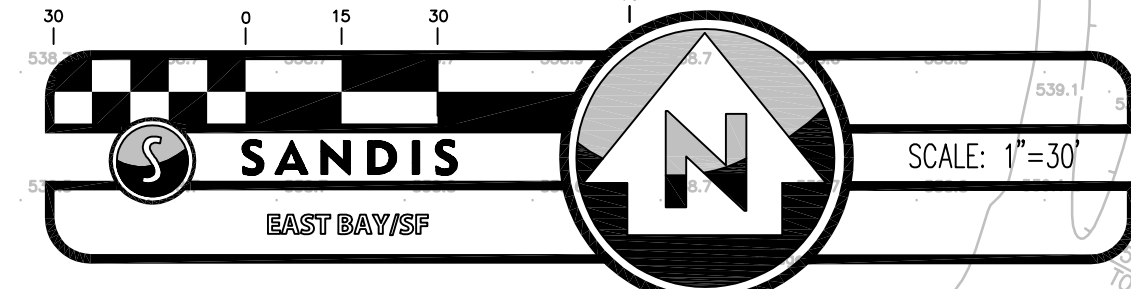
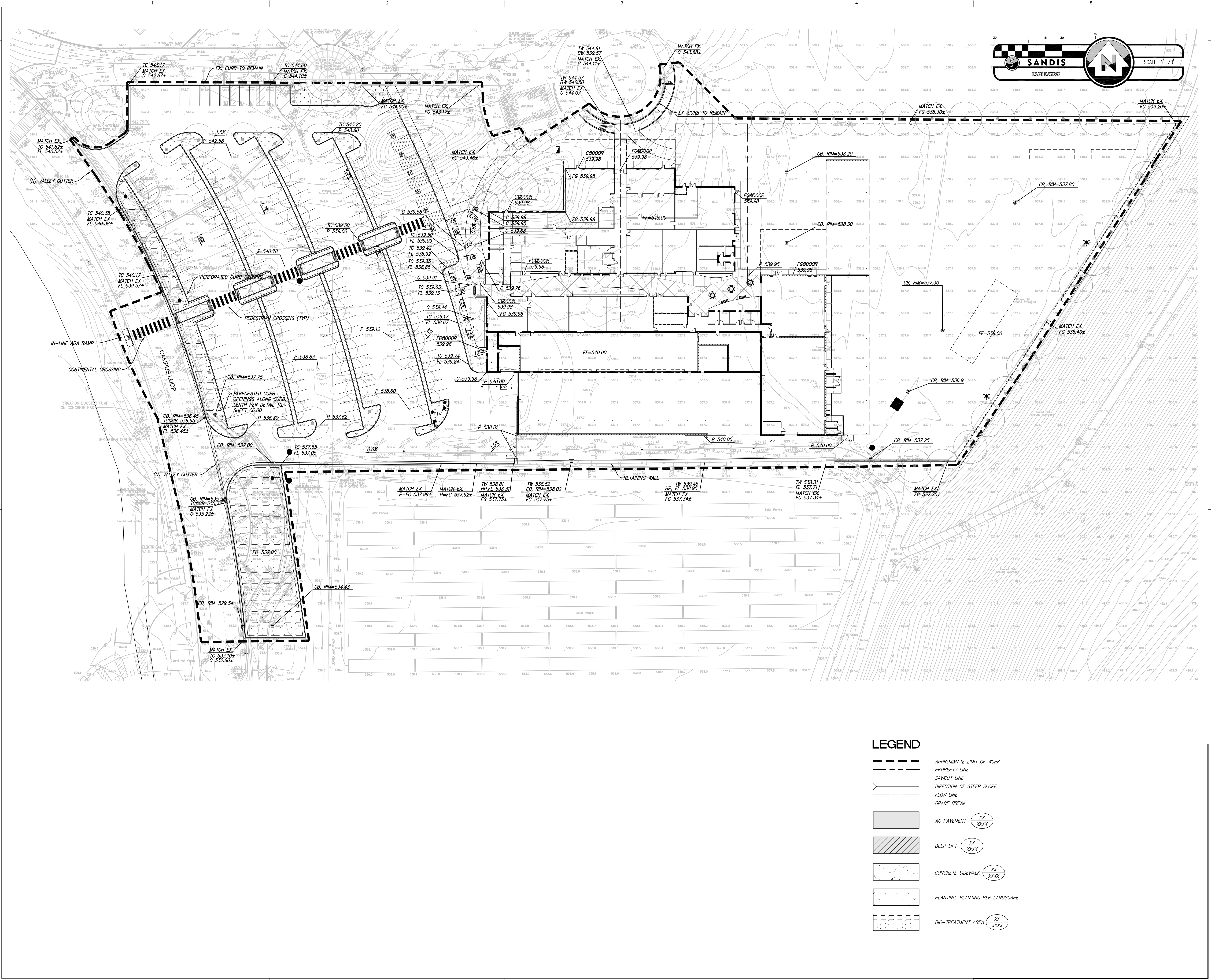


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LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

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		01/10/2020	50% DESIGN DEVELOPMENT

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LEGEND

- APPROXIMATE LIMIT OF WORK
- PROPERTY LINE
- SAWCUT LINE
- DIRECTION OF STEEP SLOPE
- FLOW LINE
- GRADE BREAK
- AC PAVEMENT (XX XXXX)
- DEEP LIFT (XX XXXX)
- CONCRETE SIDEWALK (XX XXXX)
- PLANTING, PLANTING PER LANDSCAPE
- BIO-TREATMENT AREA (XX XXXX)

TITLE
GRADING PLAN

SHEET
C3.00

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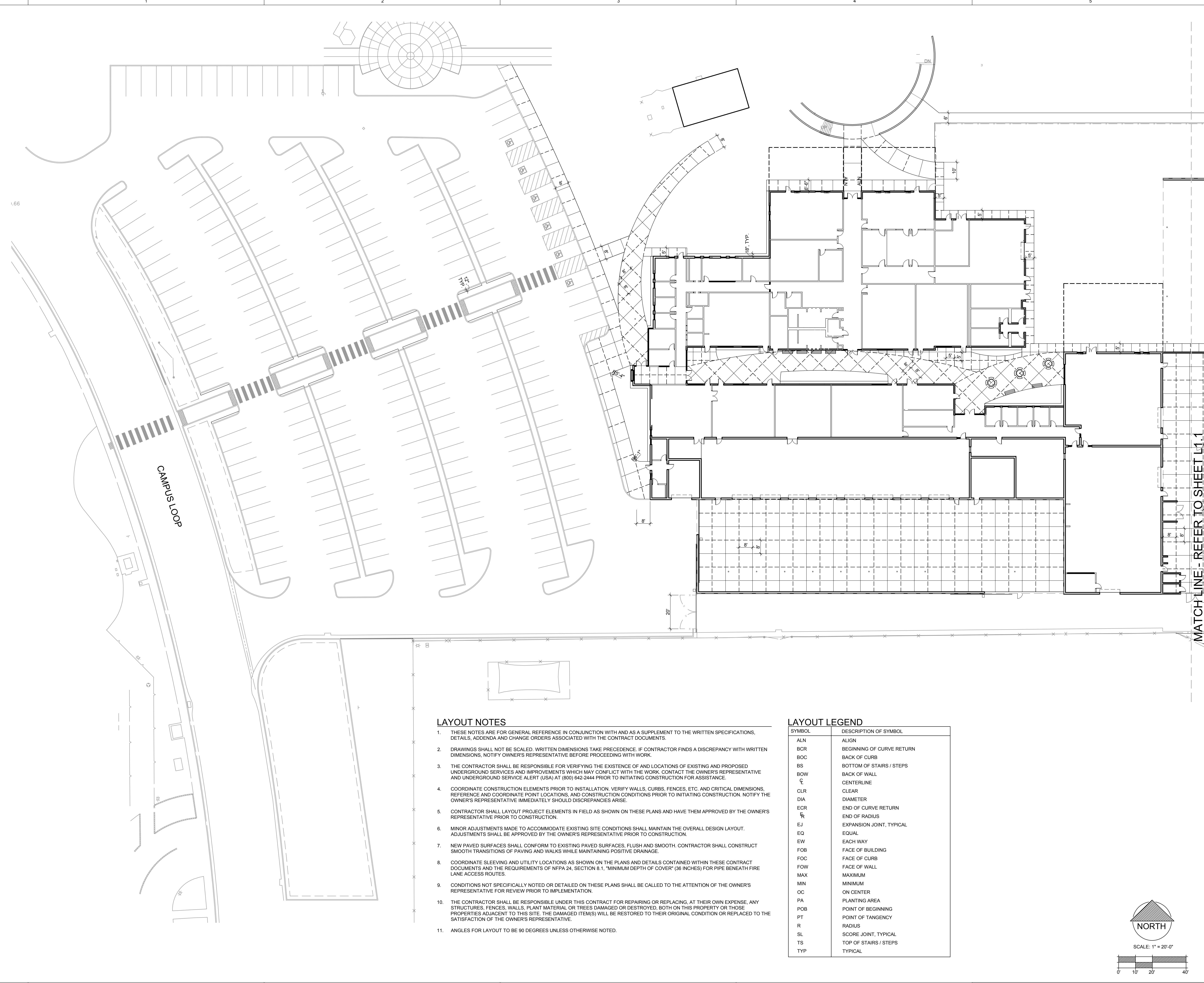
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LAYOUT NOTES

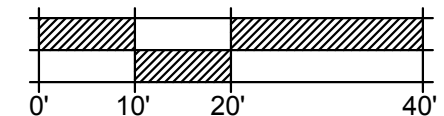
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LAYOUT LEGEND

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BS	BOTTOM OF STAIRS / STEPS
BOW	BACK OF WALL
C	CENTERLINE
CLR	CLEAR
DIA	DIAMETER
ECR	END OF CURVE RETURN
ER	END OF RADIUS
EJ	EXPANSION JOINT, TYPICAL
EQ	EQUAL
EW	EACH WAY
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SL	SCORE JOINT, TYPICAL
TS	TOP OF STAIRS / STEPS
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SCALE: 1" = 20'-0"



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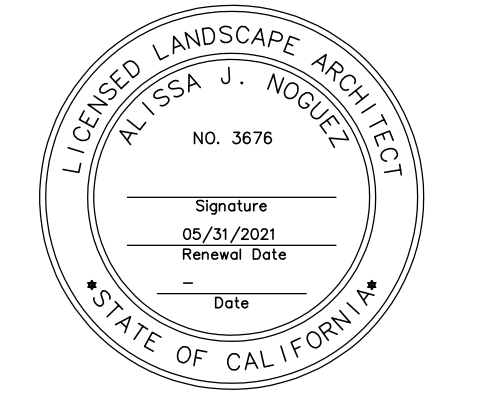
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 CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

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TITLE
LAYOUT PLAN

SHEET
L1.0

0.14" = 1'

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EXISTING RECYCLED WATER MAINLINE. CONNECT NEW 2" MAINLINE TO EXISTING MAINLINE

BIORETENTION AREA - 1 LOW FLOW BUBBLER PER SHRUB, TYP.

STANDARD TREE IRRIGATION - 2 LOW FLOW BUBBLERS PER TREE, TYP.

STANDARD SHRUB IRRIGATION - 1 LOW FLOW BUBBLER PER SHRUB, TYP.

CAMPUS LOOP

IRRIGATION LEGEND

SEE SHEET L3.1 FOR IRRIGATION NOTES

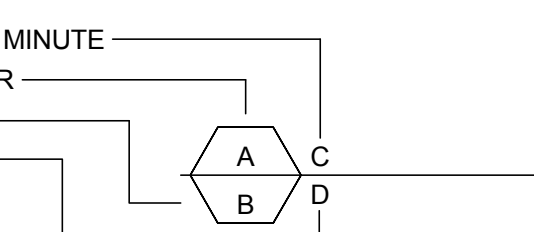
HYDROZONES:

- LOW
- MODERATE
- HIGH
- SPECIAL LANDSCAPE ZONE

NOTES:

1. HYDROZONES BASED ON PLANT SPECIES WATER USE FOR ZONE 1 PER WUCOLS IV, 2014.
2. HYDROZONE NUMBERS CORRESPOND TO VALVE NUMBERS.
3. TREE HYDROZONE AREAS ESTIMATED FROM MATURE CANOPY SIZE BY SPECIES.
4. ESTIMATED TOTAL WATER USE FOR THIS SITE IS APPROXIMATELY _____ GAL/YEAR.
5. THE WATER SUPPLY TYPE FOR THIS SITE IS _____.
6. THE LOCAL WATER PURVEYOR FOR THIS SITE IS _____.
7. PROPERTY OWNER CONTACT INFORMATION: _____.

- C = GALLONS PER MINUTE
- A = VALVE NUMBER
- B = VALVE SIZE
- D = DESCRIPTION

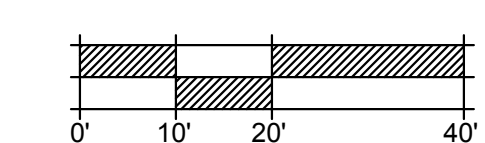


LATERAL PIPE SIZE CHART, SCH 40 PVC

GALLONS PER MINUTE	PIPE SIZE
0 - 7 GPM	3/4"
8 - 12 GPM	1"
13 - 22 GPM	1-1/4"
23 - 30 GPM	1-1/2"
31 - 50 GPM	2"
51 - 70 GPM	2-1/2"
71 - 110 GPM	3"



SCALE: 1" = 20'-0"



MATCHLINE - REFER TO SHEET L3.1

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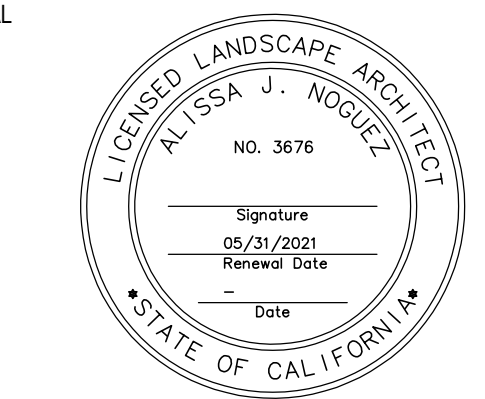
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IRRIGATION PLAN

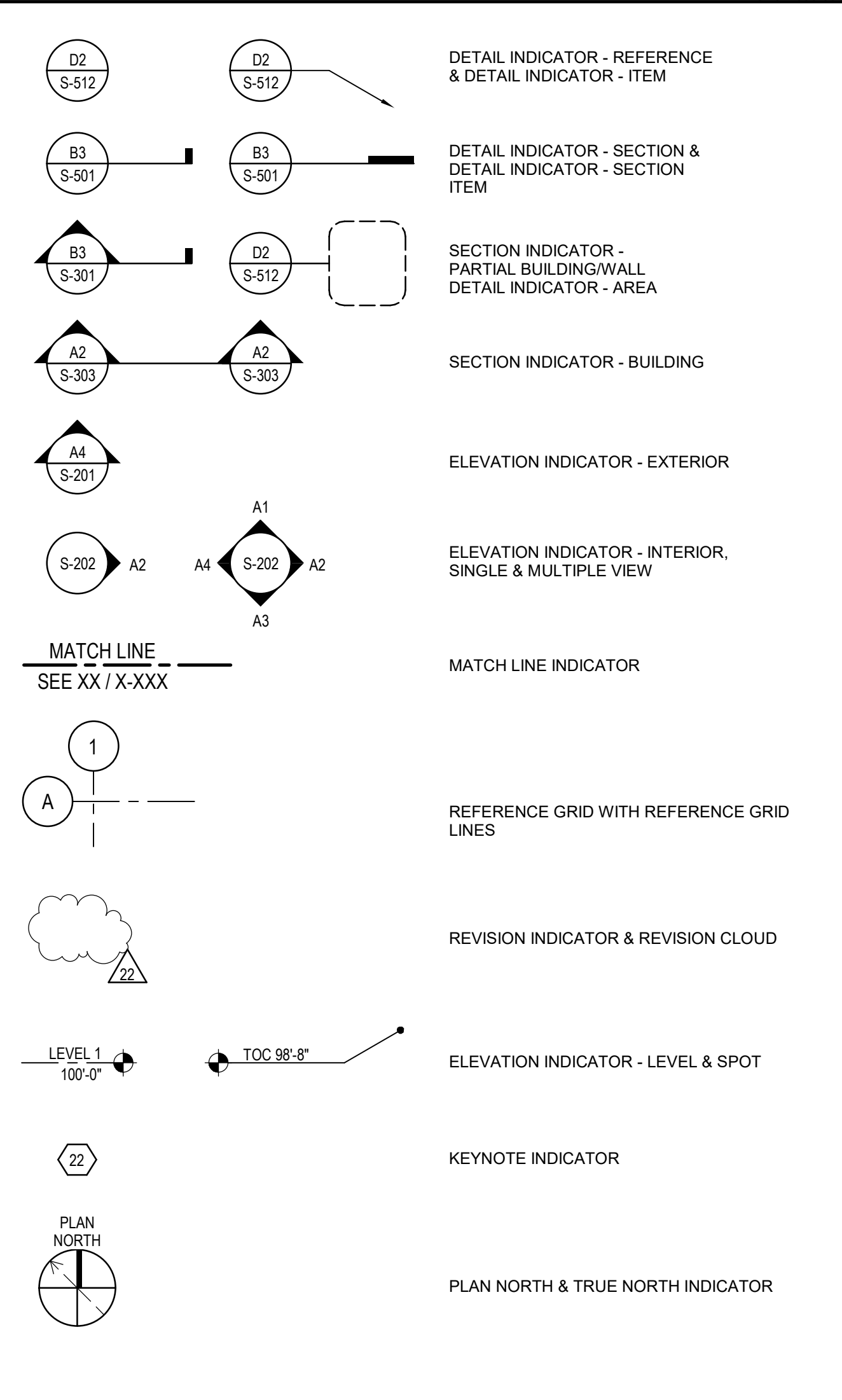
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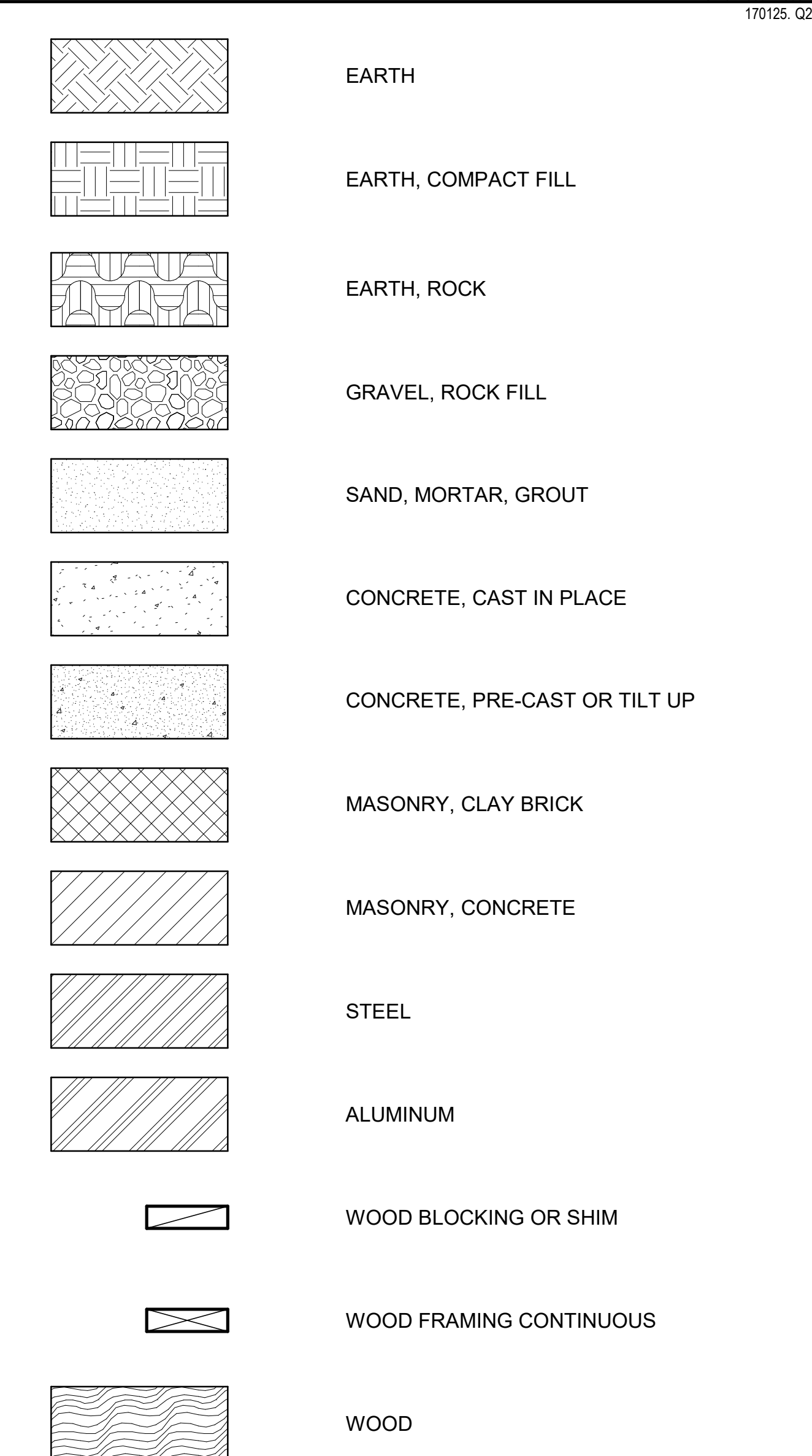
STRUCTURAL ABBREVIATIONS LEGEND

Table listing structural abbreviations and their corresponding full names, organized in two columns.

STRUCTURAL SYMBOLS LEGEND



MATERIAL SYMBOL LEGEND



STRUCTURAL GENERAL NOTES

- 1. THE STRUCTURAL NOTES AND TYPICAL DETAILS, WHETHER SPECIFICALLY REFERENCED OR NOT, ARE GENERAL AND APPLY TO ALL CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN THE STRUCTURAL NOTES AND TYPICAL DETAILS AS REQUIRED TO CONFORM TO THE BUILDING CODE AS INDICATED IN OTHER CONSTRUCTION DOCUMENTS.
2. REFERENCES TO CONSTRUCTION DOCUMENTS ARE TO THE ENFORCEMENT AGENCY APPROVED DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. SUPPLEMENTAL DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ADDENDA, REVISED DRAWINGS, FIELD INSTRUCTIONS AND MODIFICATIONS PROVIDED FOR THIS PROJECT, SHALL ALSO BE CONSIDERED A CONSTRUCTION DOCUMENT. ALL REQUIREMENTS OF THE INITIALLY APPROVED CONSTRUCTION DOCUMENTS SHALL APPLY TO ANY SUPPLEMENTAL DOCUMENTS.
3. WHERE THE CONSTRUCTION DOCUMENTS INDICATE TO NOTIFY THE STRUCTURAL ENGINEER, SUCH NOTIFICATION SHALL BE SUBMITTED IN WRITING WITH SUFFICIENT ALLOWANCE FOR A REASONABLE TIME PERIOD FOR REVIEW, DESIGN, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND WRITTEN RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. OBTAIN WRITTEN RESPONSE BEFORE PROCEEDING WITH THE AFFECTED WORK.
4. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS. DEVIATIONS SHALL NOT BE MADE TO THE REQUIREMENTS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS.
5. PORTIONS OF THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC ONLY. ITEMS INCLUDING, BUT NOT LIMITED TO, LOCATIONS, SIZES, QUANTITIES, ACCESSORIES AND CONNECTIONS ARE NOT TO BE SHOWN IN A REPRESENTATIONAL MANNER AND MAY NOT BE COMPLETELY SHOWN. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
6. DIMENSIONS AND ELEVATIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. ELEVATIONS SHOWN ARE BASED ON A REFERENCE ELEVATION. COORDINATE REFERENCE ELEVATIONS WITH ACTUAL ELEVATIONS. COORDINATE WITH ALL OTHER CONSTRUCTION DOCUMENTS FOR DIMENSIONS AND ELEVATIONS NOT INDICATED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. DO NOT SCALE DRAWINGS.
7. CONSTRUCTION SHALL COMPLY WITH ALL BUILDING, HEALTH AND SAFETY STANDARDS, CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. NOTHING IN THE CONSTRUCTION DOCUMENTS SHALL BE PERMITTED TO PERMIT WORK NOT CONFORMING TO THE STANDARDS, CODES AND REGULATIONS.
8. REFERENCES TO STANDARDS, CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, ICC, IBC, CBC, ACI, ASTM, ASCE, ANSI, AWS, AISI, AISC AND AISC SHALL BE TO THE LATEST EDITION AS ADOPTED BY THE ENFORCEMENT AGENCY.
9. FEATURES OF CONSTRUCTION INDICATED ARE TYPICAL, WHERE FEATURES ARE NOT FULLY OR SPECIFICALLY INDICATED BY THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE AS INDICATED FOR OTHERS OF SIMILAR FEATURE ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. IF ANY CONDITIONS REQUIRE CONSTRUCTION DIFFERENT THAN THAT INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
10. STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY OTHER CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
11. THE CONSTRUCTION DOCUMENTS AND THE DESIGNS INCORPORATED THEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT.
12. STRUCTURAL ELEMENTS REPRESENTED IN THE CONSTRUCTION DOCUMENTS ARE INDICATED IN THEIR COMPLETED STATE. THE CONSTRUCTION DOCUMENTS DO NOT INDICATE MEANS, METHODS OR SEQUENCES OF CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE ALL MEASURES NECESSARY AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY AND TO ASSURE THE CORRECT AND ACCURATE STRUCTURE GEOMETRY AND STABILITY DURING CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE FORMING, SHORING AND BRACING. MEASURES SHALL REMAIN IN PLACE UNTIL THE STRUCTURAL ELEMENTS AND ALL OTHER STRUCTURAL ELEMENTS USED TO SUPPORT THEM HAVE BEEN COMPLETED AND HAVE ATTAINED THEIR REQUIRED DESIGN STRENGTHS.
13. PROTECT ALL ELEMENTS, WHETHER CONCEALED OR NOT, INCLUDING, BUT NOT LIMITED TO, PROPERTIES, STRUCTURES, FINISHES, STREETS, LANDSCAPING AND UTILITIES ADJACENT TO OR ON THE SITE DURING THE CONSTRUCTION OF THIS PROJECT. SHOULD DAMAGE OCCUR TO ANY ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTROL ITEMS SUCH AS, BUT NOT LIMITED TO, DUST, DIRT, WATER, FUMES, SMOKE, TRASH AND VIBRATION CREATED AS A RESULT OF ANY OPERATIONS DURING CONSTRUCTION IN CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND REGULATIONS.
14. STRUCTURAL DESIGN LOADS, STRENGTHS, CAPACITIES AND CRITERIA INDICATED ON THE CONSTRUCTION DOCUMENTS ARE FOR THE COMPLETED STRUCTURE ONLY. THE USE OF ANY PART OR PARTS OF THE COMPLETED STRUCTURE FOR THE SUPPORT OF CONSTRUCTION ITEMS INCLUDING, BUT NOT LIMITED TO, OTHER PORTIONS OF THE STRUCTURE, PERSONNEL, MATERIALS AND EQUIPMENT IS LIMITED TO THE SAFE CAPACITY OF THE STRUCTURE AT THE TIME IT IS TO BE USED FOR SUCH SUPPORT. PROVIDE ALL MEASURES NECESSARY AS REQUIRED TO PREVENT OVERLOADING, EXCESSIVE MOVEMENT AND DAMAGE TO ANY PART OR PARTS OF THE STRUCTURE.
15. IF SUBSTITUTIONS ARE REQUESTED FOR STRUCTURAL ELEMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUBMIT DATA AND DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, COMPARATIVE QUALITY, SUITABILITY, PERFORMANCE, STRUCTURAL CAPACITY, ICC APPROVAL AND ENFORCEMENT AGENCY ACCEPTABILITY SUBSTANTIATING THE COMPLETE COMPLIANCE OF EACH PROPOSED SUBSTITUTION WITH THE CONSTRUCTION DOCUMENTS. ONLY ONE REQUEST FOR SERVICES REQUIRED TO OBTAIN ENFORCEMENT AGENCY APPROVAL OF SUBSTITUTIONS. IF A PROPOSED SUBSTITUTION SUBMITTAL IS NOT COMPLETE, NOT ACCEPTABLE TO THE STRUCTURAL ENGINEER OR NOT APPROVED BY THE ENFORCEMENT AGENCY PROVIDE THE SPECIFIED ITEM AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE STRUCTURAL ENGINEER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE PROPOSED SUBSTITUTION VERSUS THE SPECIFIED ITEM. ACCEPTANCE OF A SUBSTITUTION SHALL NOT BE CONSIDERED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
16. SCHEDULES, LEGENDS, ABBREVIATIONS, TYPICAL NOTES AND TYPICAL DETAILS ON THE STRUCTURAL CONSTRUCTION DOCUMENTS MAY REFERENCE STRUCTURAL ELEMENTS OR REQUIREMENTS NOT SPECIFICALLY INDICATED OR REQUIRED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
17. THE STRUCTURAL CONSTRUCTION DOCUMENTS ARE NOT COMPLETE AND READY FOR CONSTRUCTION UNTIL THEY ARE APPROVED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.

FIRE / SMOKE PROTECTION OF STRUCTURE

- 1. THE FIRE RESISTANCE RATING OF STRUCTURAL MEMBERS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH THE BUILDING CODE AND THE REQUIREMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS.
2. SEE THE NONSTRUCTURAL CONSTRUCTION DOCUMENTS FOR THE BUILDING CONSTRUCTION TYPE AND THE FIRE AND SMOKE PROTECTION MATERIALS, SYSTEMS OR ASSEMBLIES REQUIRED TO PROVIDE THE NECESSARY FIRE RESISTANCE RATING FOR STRUCTURAL BUILDING ELEMENTS.
3. FIRE RESISTANCE RATINGS SHALL BE MAINTAINED FOR OPENINGS OR PENETRATIONS THROUGH STRUCTURAL BUILDING ELEMENTS THAT ARE PART OF THE FIRE AND SMOKE PROTECTION SYSTEMS OR ASSEMBLIES.
4. FIRELOCKING AND DRAFTSTOPPING SHALL BE PROVIDED AT STRUCTURAL FRAMING IN COMBUSTIBLE CONCEALED LOCATIONS IN ACCORDANCE WITH THE BUILDING CODE.
5. WHEN FIRE PROTECTION IS REQUIRED, THE FIRE PROTECTED PRIMARY STRUCTURAL FRAME SHALL INCLUDE ALL OF THE FOLLOWING STRUCTURAL MEMBERS:
- THE COLUMNS
- STRUCTURAL MEMBERS HAVING DIRECT CONNECTIONS TO THE COLUMNS, INCLUDING GIRDERS, BEAMS, TRUSSES AND SPANDRELS
- MEMBERS OF THE FLOOR CONSTRUCTION AND ROOF CONSTRUCTION HAVING DIRECT CONNECTIONS TO THE COLUMNS
- BRACING MEMBERS THAT ARE ESSENTIAL TO THE VERTICAL STABILITY OF THE PRIMARY STRUCTURAL FRAME UNDER GRAVITY LOADING WHETHER OR NOT THE BRACING MEMBER CARRIES GRAVITY LOADS
6. WHEN FIRE PROTECTION IS REQUIRED, THE FOLLOWING STRUCTURAL MEMBERS SHALL BE CONSIDERED SECONDARY MEMBERS AND NOT PART OF THE FIRE PROTECTED PRIMARY STRUCTURAL FRAME:
- STRUCTURAL MEMBERS NOT HAVING DIRECT CONNECTIONS TO THE COLUMNS
- MEMBERS OF THE FLOOR CONSTRUCTION AND ROOF CONSTRUCTION NOT HAVING DIRECT CONNECTIONS TO THE COLUMNS
- BRACING MEMBERS OTHER THAN THOSE THAT ARE PART OF THE PRIMARY STRUCTURAL FRAME
7. FIRE PROTECTION CONSTRUCTION CLASSIFICATIONS USED FOR DETERMINING CONDITIONS OF RESTRAINT FOR FLOOR AND ROOF STRUCTURAL ASSEMBLIES AND FOR INDIVIDUAL STRUCTURAL CLASSIFICATIONS SHALL CONFORM TO ASTM E119. USE THE FOLLOWING FIRE PROTECTION CONSTRUCTION CLASSIFICATIONS, UNO:
- UNRESTRAINED WOOD FRAMING
- COLD FORMED STEEL FRAMING
- STEEL FRAMING SUPPORTED BY BEARING WALLS
- CONCRETE FRAMING SUPPORTED BY BEARING WALLS
- RESTRAINED STEEL FRAMING
- CONCRETE FRAMING

STRUCTURAL DESIGN CRITERIA

- BUILDING CODE: 2016 CBC
ENFORCEMENT AGENCY: DIVISION OF THE STATE ARCHITECT (DSA)
A. VERTICAL DESIGN CRITERIA (UNLESS OTHERWISE SHOWN OR NOTED)
ROOF LIVE LOADS:
- TYP ROOF AREA 20 PSF (REDUCIBLE)
- MECHANICAL & ELECTRICAL AREA 50 PSF (NON-REDUCIBLE)
- LANDSCAPED ROOF (UNOCCUPIED) 20 PSF (REDUCIBLE)
FLOOR LIVE LOADS:
- OFFICE/GLASSROOMS (W/ 15 PSF PARTITION L) 50 PSF (REDUCIBLE)
- CORRIDORS ABOVE FIRST FLOOR 80 PSF (REDUCIBLE)
- FIRST FLOOR CORRIDORS 100 PSF (REDUCIBLE)
- STAIRS & EXITS 100 PSF (REDUCIBLE)
- ASSEMBLY AREAS 100 PSF (NON-REDUCIBLE)
- MECHANICAL & ELECTRICAL EQUIPMENT AREA 50 PSF (NON-REDUCIBLE)
- LIGHT STAGED 125 PSF (NON-REDUCIBLE)
- HEAVY STORAGE 250 PSF (NON-REDUCIBLE)
GROUND SNOW LOAD: 0 PSF
B. LATERAL DESIGN CRITERIA
SEISMIC SITE CRITERIA: SS=7.7?, S1=0.7?, SDS=0.7?, SD1=0.7?, SITE CLASS: ?
BUILDING CRITERIA:
SEISMIC:
- RISK CATEGORY = ?
- IMPORTANCE FACTOR, I=1.00
- SEISMIC DESIGN CATEGORY = ?
- SEISMIC FORCE RESISTING SYSTEM = ?
- RESPONSE MODIFICATION FACTOR, R = ?
- DESIGN BASE SHEAR, V = ?
- SEISMIC RESPONSE COEFFICIENT, Cs=0.09
- ANALYSIS PROCEDURE, EQUIVALENT LATERAL FORCE
- HORIZONTAL IRREGULARITIES: TYPE 1A (TORSIONAL), TYPE 1B (EXTREME TORSIONAL), TYPE 2 (REINTRAINT CORNER), TYPE 3 (DIAPHRAGM DISCONTINUITY), TYPE 4 (OUT-OF-PLANE OFFSET), TYPE 5 (NONPARALLEL)
- VERTICAL IRREGULARITIES: TYPE 1A (SOFT STORY), TYPE 1B (EXTREME SOFT STORY), TYPE 2 (MASS), TYPE 3 (GEOMETRIC), TYPE 4 (IN-PLANE DISCONTINUITY), TYPE 5A (WEAK STORY), TYPE 5B (EXTREME WEAK STORY)
BUILDING DISPLACEMENT (AMPLIFIED):
LEVEL INTERSTORY DISPLACEMENT TOTAL DISPLACEMENT
GROUND 0.00 IN 0.00 IN
SECOND FLOOR 7.7? IN 7.7? IN
ROOF 7.7? IN 7.7? IN
WIND:
ULTIMATE DESIGN WIND SPEED, V(ULT) = 110 MPH
NOMINAL DESIGN WIND SPEED, V(ASD) = 85 MPH
RISK CATEGORY = C
WIND EXPOSURE = C
GCFI = +/- 0.18
COMPONENTS AND CLADDING WIND PRESSURES TO BE DETERMINED PER ASCE 7-10
C. SOIL DESIGN CRITERIA
SOIL INFO IS BASED ON GEOTECHNICAL REPORT BY:
NAME OF GEOTECHNICAL ENGINEER / REPORT NUMBER
DATED: REPORT DATE
SPREAD FOUNDATIONS:
- ALLOWABLE BEARING PRESSURE:
DL + LL = ??? ? PSF
DI + LATERAL = ??? ? PSF
- COEFFICIENT OF FRICTION = ??? ?
- ALLOWABLE PASSIVE PRESSURE = ??? PCF
- SEISMIC RESISTANCE AND PASSIVE PRESSURE ARE COMBINED, FRICTION IS REDUCED BY 50%
RETAINING WALLS:
- AT-REST EARTH PRESSURE = ?? PCF
- ACTIVE EARTH PRESSURE = ?? PCF
- INCREMENTAL SEISMIC ACTIVE EARTH PRESSURE = ?? PCF ACTING AT ?? TIMES THE RETAINING WALL HEIGHT

STRUCTURAL DEFERRED SUBMITTALS

- 1. THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR DEFERRED APPROVAL BY THE ENFORCEMENT AGENCY PRIOR TO FABRICATION OR INSTALLATION.
2. SEE THE SPECIFICATIONS AND STRUCTURAL DESIGN CRITERIA FOR REQUIRED PERFORMANCE AND LOADING CRITERIA.
3. DEFERRED SUBMITTALS ARE SUBJECT TO ALL THE REQUIREMENTS OF OTHER SUBMITTALS.
4. SUBMITTAL DOCUMENTS AND SUPPORTING DESIGN CALCULATIONS SHALL BE STAMPED AND SIGNED BY A CALIFORNIA REGISTERED PROFESSIONAL ENGINEER.
5. DOCUMENTS AND CALCULATIONS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE PROJECT PRIOR TO SUBMITTAL TO THE ENFORCEMENT AGENCY.
6. DEFERRED SUBMITTAL ITEMS SHALL NOT BE FABRICATED OR INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE ENFORCEMENT AGENCY.
LIST OF DEFERRED SUBMITTALS:
1. STEEL JOISTS/JOIST GIRDERS
2. WOOD TRUSSES
3. ELEVATOR GUIDE RAILS AND SUPPORTS
4. WINDOW WALL SYSTEMS / STOREFRONTS
5. EXTERIOR WALL SYSTEMS
6. SKYLIGHTS
7. BLEACHERS
8. FIRE PUMPS & WATER TANKS
9. ACCESS FLOORS
10. STAGE RIGGING

PROJECT DIRECTORY

Table listing project directory information including owner, landscape architect, civil engineer, electrical engineer, mechanical engineer, plumbing engineer, architect, telecommunications/AV, and structural engineer.

STRUCTURAL SHEET INDEX

Table showing the structural sheet index with columns for sheet number and sheet name.

MARK DATE DESCRIPTION

Table with columns for mark, date, and description, showing revision history.

FILE NO. ??X-XXX?

Identification stamp form for the state architect, including fields for name, date, and signature.

LIONAKIS

1919 Nineteenth Street
Sacramento CA 95811
P 916.558.1900 F 916.558.1919
www.lionakis.com

CONSULTANT

FOR REVIEW ONLY / NOT FOR CONSTRUCTION
THE CONSTRUCTION DOCUMENTS HAVE NOT BEEN APPROVED BY THE ENFORCEMENT AGENCY AND ARE NOT COMPLETE OR READY FOR CONSTRUCTION. ELEMENTS, MEMBERS, SYSTEMS AND ASSOCIATED DETAILS AND SPECIFICATIONS MAY NOT BE SHOWN OR FULLY DEVELOPED. FOR BIDDING/ESTIMATING PURPOSES, UTILIZE ADDITIONAL MATERIALS AND QUANTITIES TO ACCOUNT FOR THOSE ITEMS NOT SHOWN OR FULLY DEVELOPED.

PUBLIC SAFETY CENTER / ADVANCED MANUFACTURING AND TRANSPORTATION PROJECT

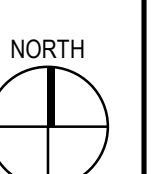
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551
CLIENT: CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

ISSUED
MARK DATE DESCRIPTION
01/10/2020 50% DESIGN DEVELOPMENT

MANAGEMENT
LIONAKIS PROJECT NO. 190951
CLIENT PROJECT NO.
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GENERAL NOTES

SHEET
S-001



STRUCTURAL SUBMITTALS

- 1. SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, SHOP DRAWINGS, FABRICATION DRAWINGS, PLACEMENT DRAWINGS, CALCULATIONS, DESIGNS, TEST DATA, PRODUCT DATA, SAMPLES, CERTIFICATIONS AND REPORTS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
2. SUBMITTALS, AS A MINIMUM, SHALL CONSIST OF TWO (2) COPIES OF EACH SHEET.
3. SUBMITTALS SHALL NOT CONTAIN NOR CONSIST OF REPRODUCTIONS OF THE CONSTRUCTION DOCUMENTS...

STRUCTURAL TESTING & INSPECTION

- 1. SPECIAL INSPECTION IS DEFINED AS THE INSPECTION OF THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
A. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS DURING CONSTRUCTION FOR ITEMS NOTED IN DSA FORM 103.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE...

STRUCTURAL OBSERVATION

- 1. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY THE STRUCTURAL OBSERVER (THE STRUCTURAL ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE) FOR GENERAL CONFORMANCE TO THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM.
2. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY OR BY OTHER SECTIONS OF THE BUILDING CODE.
3. STRUCTURAL OBSERVATION DOES NOT INCLUDE THE SUPERVISION OF CONSTRUCTION FOR PROPER EXECUTION OF THE WORK SHOWN IN THE CONSTRUCTION DOCUMENTS.

FIRE SPRINKLER COORDINATION

- 1. AUTOMATIC FIRE SPRINKLER SYSTEM (AFSS) DESIGN AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE, ASCE 7, AND NFPA 13.
2. THE ABOVE GROUND PORTION OF THE AFSS SHALL BE DESIGNED BY A CALIFORNIA LICENSED MECHANICAL ENGINEER, FIRE PROTECTION ENGINEER, OR A DESIGN/BUILD C-16 FIRE PROTECTION CONTRACTOR.
3. INSTALLATION SHALL NOT BEGIN PRIOR TO OBTAINING APPROVAL FROM THE ENFORCEMENT AGENCY AND REVIEW ARCHITECT AND STRUCTURAL ENGINEER.

FOUNDATION AND EARTHWORK

- 1. ALL FOUNDATION AND EARTHWORK INCLUDING, BUT NOT LIMITED TO, EXCAVATION, GRADING, FILLING, SUB-GRADE PREPARATION, SOIL TREATMENT, ASSOCIATED SITE WORK, TRENCHING AND BACKFILLING SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
2. THE GEOTECHNICAL INFORMATION PROVIDED IS BASED UPON A GEOTECHNICAL REPORT PREPARED BY THE OWNER FOR THIS PROJECT. THE GEOTECHNICAL REPORT WAS USED FOR THE DESIGN INDICATED IN THESE CONSTRUCTION DOCUMENTS.
3. THE GEOTECHNICAL INFORMATION PROVIDED IS NOT A WARRANTY OF THE SITE OR SUBSURFACE CONDITIONS...

REINFORCED CONCRETE

- 1. CONCRETE MATERIALS, QUALITY CONTROL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
3. AGGREGATES SHALL CONFORM TO ASTM C33 FOR NORMAL-WEIGHT AND ASTM C330 FOR LIGHTWEIGHT CONCRETE.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A706, GRADE 60, OR ASTM A615, GRADE 60.
5. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60, WELD FILLER METAL FOR REBAR LAP JOINTS SHALL CONFORM WITH AWS D1.4, F4080 KSI, WELDING SHALL CONFORM WITH AWS D1.4.

REINFORCED MASONRY

- 1. MINIMUM REBAR COVER FROM EXTERNAL MASONRY SURFACES EXPOSED TO EARTH OR WEATHER SHALL BE 2" FOR #6 REBAR AND LARGER, AND 1 1/2" FOR #5 REBAR AND SMALLER.
2. MINIMUM REBAR CLEARANCE TO INTERNAL MASONRY SURFACES SHALL BE THE GREATER OF ONE REBAR DIAMETER OR 1/2" HORIZONTAL REBAR CAN BEAR ON THE CROSS WEBS OF BOND BEAM UNITS.
3. HOLLOW AND SOLID CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A MAXIMUM OVEN DRY DENSITY OF 135 PCF. UNITS SHALL HAVE A NET AREA COMPRESSIVE STRENGTH (FM) OF 2,000 PSI MINIMUM.
4. MORTAR SHALL CONFORM TO ASTM C270-TYPE S.
5. MASONRY UNITS AND MORTAR SHALL CONFORM TO THE COLOR AND STYLE SPECIFIED BY THE ARCHITECT.

CONCRETE MIX DESIGN

MIX DESIGN TABLE with columns: LOCATION, REQ SCM (% BY WEIGHT OF TOTAL CONTINUOUS MATERIALS), REQ EARLY COMPRESSIVE STRENGTH (PSI), REQ 28 DAY COMPRESSIVE STRENGTH (PSI), AIR CONTENT (%), MAX W/C RATIO, MAX AIR-DRY WEIGHT (LBS/FT3), ACI EXPOSURE CLASS. Includes data for BELOW GRADE CONCRETE and SLAB ON GRADE AND BUILDING CURBS.

CONCRETE MIX DESIGN

- 1. 3 PERCENT MAX AIR AT STEEL TROWELED CONCRETE UNLESS CONTRACTOR CAN ASSURE THAT DELAMINATION WILL NOT OCCUR.
2. DELAMINATION WILL NOT OCCUR. PROTECT SLABS FROM FREEZE-THAW UNTIL SPACE IS CONDITIONED IF AIR CONTENT IS LESS THAN 4.5 PERCENT.
3. REINFORCING IN CONTINUOUS BEAMS AND SPANDRELS SHALL HAVE THE TOP BARS SPICED AT MID-SPAN AND THE BOTTOM BARS SPICED AT THE CENTERLINE OF SUPPORTS.
4. REINFORCING IN CONTINUOUS SOIL-BEARING GRADE BEAMS OR FOOTINGS SHALL HAVE THE TOP BARS SPICED AT CENTERLINE OF COLUMN SUPPORTS AND THE BOTTOM BARS SPICED AT MID-SPAN.
5. DIMENSIONS LOCATING REINFORCING STEEL ARE TO THE FACE OF REINFORCING STEEL AND DENOTE CLEAR COVERAGE. MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS: UNO. A. CONCRETE CAST AGAINST EARTH (EXCEPT SLAB ON GRADE) - 3" SLABS ON GRADE - CENTER REIN IN SLAB, UNO.

FILE NO. ??X-XXXX?

IDENTIFICATION STAMP OF THE STATE ARCHITECT. Includes fields for AC, FLS, SS, DATE, and the LIONAKIS logo.

1919 Ninth Street Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com CONSULTANT

FOR REVIEW ONLY / NOT FOR CONSTRUCTION THE CONSTRUCTION DOCUMENTS HAVE NOT BEEN APPROVED BY THE ENFORCEMENT AGENCY AND ARE NOT COMPLETE OR READY FOR CONSTRUCTION...

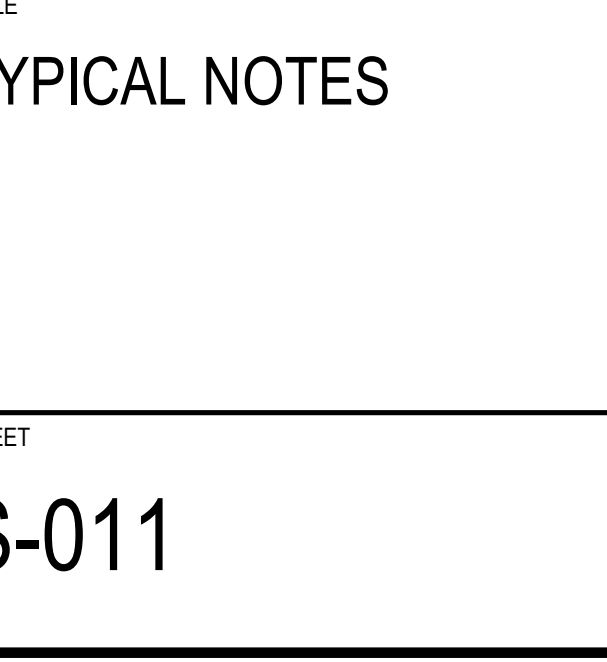
PROJECT PUBLIC SAFETY CENTER / ADVANCED MANUFACTURING AND TRANSPORTATION PROJECT

3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551 CLIENT CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT 7600 DUBLIN BLVD DUBLIN, CA 94568

ISSUED table with columns: MARK, DATE, DESCRIPTION. Includes entry for 01/10/2020 50% DESIGN DEVELOPMENT.

MANAGEMENT table with columns: LIONAKIS PROJECT NO., CLIENT PROJECT NO., COPYRIGHT. Includes entry for 019051 and LIONAKIS 2017.

TITLE TYPICAL NOTES SHEET S-011



0.14" = 1" IF THIS SHEETS IS NOT 30" X 42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY 1/4"=0.0021113 DIM. SAMSTER, RIE, CENTRAL, WASHINGTON

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COLD-FORMED STEEL FRAMING

S: 06400 N001A
19028 02

- THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED STEEL FRAMING SHALL BE IN ACCORDANCE WITH THE FOLLOWING AISI NORTH AMERICAN STANDARDS:
S100 - SPECIFICATION FOR THE DESIGN OF STRUCTURAL MEMBERS
S200 - GENERAL PROVISIONS
S210 - FLOOR AND ROOF SYSTEM DESIGN
S211 - WALL STUD DESIGN
S212 - HEADER DESIGN
S213 - LATERAL DESIGN
S214 - TRUSS DESIGN
- ALL PRODUCTS SHALL POSSESS DIMENSIONS, SECTION PROPERTIES AND MATERIALS IN COMPLIANCE WITH THE AISI D100 MANUAL OF COLD-FORMED STEEL DESIGN AND BE MANUFACTURED BY A CURRENT MEMBER OF THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA) OR "STEEL FRAMING INDUSTRY ASSOCIATION" (SFIA).
- PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.
- STEEL MEMBERS AND COMPONENTS SHALL BE GALVANIZED ZINC-COATED PER ASTM A653 WITH COATING WEIGHTS AS FOLLOWS UNO. NON-STRUCTURAL MEMBERS G40, STRUCTURAL MEMBERS G60, ALL MEMBERS PERMANENTLY EXPOSED TO UN-CONDITIONED AIR G90, ALL MEMBERS USED IN MARINE ENVIRONMENTS G185.
- STEEL MEMBERS 18 GA OR LIGHTER SHALL BE MANUFACTURED PER A1003 STRUCTURAL GRADE 33 TYPE H (ST33H), AND 16 GA OR HEAVIER PER A1003 STRUCTURAL GRADE 50, TYPE H (ST50H).
- THE MINIMUM UNCOATED STEEL THICKNESS AS DELIVERED TO THE JOBSITE SHALL BE: 25 GA = 0.018", 22 GA = 0.027", 20 GA = 0.033", 18 GA = 0.043", 16 GA = 0.054", 14 GA = 0.068", 12 GA = 0.097".
- STUDS/JOISTS SHALL HAVE 1 5/8" WIDE FLANGES, TYP UNO.
- STUDS/JOISTS SHALL HAVE WEB PUNCH-OUTS AT 24" OC AT MID-DEPTH. PUNCH-OUTS SHALL NOT EXCEED 1 1/2" IN WIDTH, AND 4" IN LENGTH. NO OTHER OPENINGS IN STUDS/JOISTS ARE PERMITTED UNLESS SPECIFICALLY DETAILED.
- TRACK SHALL MATCH STUD/JOIST DEPTH & GAGE, AND FLANGE WIDTH SHALL BE 1 1/4", TYP, UNO. ALL TRACKS TO BE UNPUNCHED WITH SOLID WEBS.
- FASTENING OF FRAMING COMPONENTS SHALL BE WITH SELF-DRILLING SELF-TAPPING SCREWS OR WELDING. WHERE DETAILS CALL FOR SCREWS, THE MINIMUM SIZES SHALL BE AS FOLLOWS: #6 FOR 22 GA OR LIGHTER MATERIAL, #8 FOR 20 GA MATERIAL, #10 FOR 18 & 16 GA MATERIAL, & #12 FOR 14 GA OR HEAVIER MATERIAL. TYP UNO. SCREW SIZE IS DETERMINED BY THE GA OF THE THICKEST PART BEING JOINED UNO. INSTALL SCREWS WITH THE HEAD IN CONTACT WITH THE THINNEST PART BEING JOINED UNO. AS AN ALTERNATE, STEEL MEMBERS 18 GA OR HEAVIER MAY BE WELDED WITH A 1/2" LONG WELD (FILLET OR FLARE GROOVE) INSTEAD OF EACH SCREW, TYP UNO.
- SCREW SPACING SHALL NOT BE LESS THAN 3 TIMES THE NOMINAL SCREW DIAMETER. SCREW EDGE DISTANCE SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL SCREW DIAMETER. PENETRATION OF SCREWS THROUGH JOINED MATERIALS SHALL NOT BE LESS THAN 3 EXPOSED THREADS. SCREW HEADS SHALL BE LOW-PROFILE TYPE.
- SCREWS SHALL CONFORM WITH ASTM C1513 AND HAVE A CORROSION-RESISTANT COATING.
- BOLTS SHALL BE INSTALLED IN STANDARD SIZE HOLES. UNO. STANDARD SIZE HOLES SHALL BE BOLT DIA + 1/32" FOR BOLTS SMALLER THAN 1/2" DIA, AND BOLT DIA + 1/16" AT 1/2" DIA AND LARGER BOLTS.
- WELDING SHALL CONFORM WITH AWS D1.3. WELDING TO STRUCTURAL STEEL SHALL ALSO CONFORM WITH AWS D1.1. THE ELECTRODES USED FOR WELDING SHALL HAVE A MINIMUM YIELD STRENGTH OF 60 KSI. WELDS OF GALVANIZED STEEL SHALL BE COATED WITH A ZINC-RICH PAINT.
- FASTENING OF SHEATHING SHALL BE WITH SELF-DRILLING SELF-TAPPING SCREWS, #6 MIN FOR GYPSUM BOARD & #8 MIN FOR STRUCTURAL PANELS. SCREW HEADS SHALL BE COUNTER SUNK FLAT-PROFILE TYPE.
- NON-STRUCTURAL INTERIOR WALLS SUPPORTED AT THE BASE AND EXTENDING TO THE BOTTOM OF STRUCTURE ABOVE SHALL HAVE SLIP TRACKS AT THE TOP, UNO.
- FRAME INDIVIDUAL MEMBERS AND EACH ELEMENT OF BUILT-UP MEMBERS, CONTINUOUS ONE PIECE BETWEEN SUPPORTS, SPLICE ONLY WHERE SPECIFICALLY NOTED.

STEEL DECKING

S: 06300 N001A
18128 02

- STEEL DECKING WORK, MATERIALS, CONSTRUCTION AND QUALITY SHALL BE IN ACCORDANCE WITH THE BUILDING CODE.
- PRODUCTS SHALL POSSESS CURRENT EVALUATION AGENCY APPROVALS WITH SECTION DIMENSIONS, PROPERTIES AND MATERIALS IN COMPLIANCE WITH THE TYPICAL DETAILS. SEE CONSTRUCTION DOCUMENTS FOR STEEL DECK TYPE AND GAGE.
- WELDING MATERIALS AND PROCEDURES SHALL CONFORM TO AWS D1.3. WELDING TO STRUCTURAL STEEL SHALL ALSO CONFORM TO AWS D1.1. ELECTRODES USED FOR WELDING SHALL HAVE A MINIMUM 60KSI FILLER METAL YIELD STRENGTH.
- BARE STEEL DECK SHALL BE MANUFACTURED BY:
- "ASO STEEL DECK" PER APMO ER 0161
- "EPIC METALS CORPORATION" PER ICC ESR 2047
- SHEET STEEL ACCESSORIES SHALL BE FABRICATED FROM THE SAME GAUGE AND MATERIALS AS ADJACENT STEEL DECK, UNO.
- STEEL DECK SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS) DESIGNATION, MINIMUM GRADE AS INDICATED IN EVALUATION AGENCY REPORT.
- STEEL DECK AND ACCESSORIES SHALL BE GALVANIZED ZINC-COATED IN CONFORMANCE WITH ASTM A653 WITH COATING WEIGHTS AS FOLLOWS UNO.
STANDARD DECK COATING SHALL BE G90. DECK COATING AT EXTERIOR PERMANENTLY EXPOSED LOCATIONS SHALL BE G90. DECK COATING IN MARINE ENVIRONMENTS SHALL BE G185.
- STEEL DECK SHALL BE CONTINUOUS OVER MULTIPLE SPANS WHERE FRAMING PERMITS. LAYOUT STEEL DECK TO PROVIDE TWO SPANS MINIMUM AND THREE SPANS OR GREATER WHERE POSSIBLE. SINGLE SPANS SHALL OCCUR ONLY WHERE CONTINUITY CANNOT BE MADE ONTO ADJACENT SPANS.
- STEEL DECK SHALL BE INSTALLED WITH A MINIMUM INTERMEDIATE AND END BEARING OF 2" OVER STRUCTURAL SUPPORTS. STEEL DECK SPLICES SHALL BE BUTTED WITH RIBS ALIGNED, UNO. BARE STEEL DECK MAY BE LAP SPLICED WITH A MINIMUM LAP OF 2" PROVIDED THE DECK ENDS ARE DIE SET, UNO.
- STEEL DECK SPLICES SHALL BE CENTERED OVER A COMMON MEMBER.
- ARC SPOT WELDS SHALL HAVE A MINIMUM 1/2" DIAMETER EFFECTIVE SIZE. ARC SPOT WELD MINIMUM DECK EDGE DISTANCE SHALL BE 1.5 TIMES THE VISIBLE WELD DIAMETER MEASURED FROM THE CENTER OF THE WELD.
- ARC SEAM WELDS MAY BE SUBSTITUTED FOR ARC SPOT WELDS. ARC SEAM WELDS SHALL HAVE A MINIMUM 3/8" WIDE BY 1" LONG EFFECTIVE SIZE. ARC SEAM WELD MINIMUM DECK EDGE DISTANCE SHALL BE 1.5 TIMES THE VISIBLE WELD DIAMETER MEASURED FROM THE LONGITUDINAL AXIS OR FROM THE CENTER OF THE END RADIUS OF THE WELD.
- THE MINIMUM CLEAR DISTANCE BETWEEN ADJACENT WELDS AND BETWEEN A WELD AND THE DECK EDGE SHALL BE NO LESS THAN THE VISIBLE WELD DIAMETER.
- FILLET WELDS SHALL HAVE A MINIMUM LEG SIZE EQUAL TO THE THICKNESS OF THE THINNEST SHEET STEEL BEING ATTACHED. FILLET WELDS SHALL HAVE A MINIMUM LENGTH OF 3".
- FLARE GROOVE WELDS SHALL HAVE A MINIMUM WELD THROAT SIZE EQUAL TO THE THICKNESS OF THE THINNEST SHEET STEEL BEING ATTACHED. FLARE GROOVE WELDS SHALL HAVE A MINIMUM LENGTH OF 3/4".
- STEEL DECK PANELS AT CANTILEVERED CONDITIONS AND AT PARTIAL WIDTH PANELS SHALL HAVE CONNECTIONS FOR THE ENTIRE LENGTH OF THE DECK PANEL AS FOLLOWS:
CONNECTIONS TO EACH STRUCTURAL SUPPORT AT EACH LOW FLUTE AND SIDE SEAM CONNECTIONS AT ENDS AND 12" ON CENTER MAXIMUM.
- ACCESSORIES SHALL BE FASTENED TO SUPPORTING STEEL DECK AND STRUCTURAL MEMBERS BY CONNECTIONS SPACED AT 12" MAXIMUM ON CENTER AND AT EACH END.
- PROVIDE EDGE FORMS, FLASHING, CLOSURE PLATES, AND SUPPLEMENTARY SUPPORTS FOR DECK EDGES AT BUILDING PERIMETER, AT OPENINGS AND AT PENETRATIONS THROUGH DECK.
- DO NOT SUSPEND OR ATTACH SUPPORTS FOR NONSTRUCTURAL COMPONENTS FROM BARE STEEL DECK, EXCEPT FOR COMPONENTS WEIGHING LESS THAN 100 LBS OR HANGER WIRE SUSPENDED ACOUSTIC OR SINGLE-LAYER GYPSUM BOARD CEILING(S) MAXIMUM CEILING SYSTEM WEIGHT OF 4 PSF) INCLUDING THEIR INTEGRALLY SUPPORTED LIGHT FIXTURES, TERMINALS AND DEVICES. COORDINATE HANGER WIRE SUPPORT DETAILS WITH STEEL DECK INSTALLATION.
- SUPPORTS OR ANCHORS FOR ITEMS NOT PERMITTED TO BE ATTACHED TO STEEL DECK SHALL BE SUPPORTED BY STRUCTURAL FRAMING. PROVIDE ADDITIONAL TRAPEZE HANGERS OR SUPPLEMENTARY FRAMING AS NECESSARY.

STRUCTURAL STEEL

S: 06100 N001A
19085 02

- THE DESIGN, FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH AISC 360 AND AISC 341 INCLUDING ANY ENFORCEMENT AGENCY AMENDMENTS.
- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING UNO:

STEEL PRODUCT	ASTM SPECIFICATION	UNO	COMMENTS
W & WT SHAPES	A992	GRADE 50	Fy = 50ksi
HP SHAPES	A572	GRADE 50	Fy = 50ksi
M, MT, S & ST SHAPES	A36		Fy = 36ksi
CHANNELS (C & MC)	A36		Fy = 36ksi
PLATES & BARS	A36		Fy = 36ksi
RODS	A572	GRADE 50	Fy = 50ksi
RAISED-PATTERN FLOOR PLATE	A786	MEETING ASTM A36	Fy = 36ksi
PIPES	A53	GRADE B	Fy = 36ksi
ROUND HSS	A500	GRADE C	Fy = 48ksi
RECTANGULAR & SQUARE HSS	A500	GRADE C	Fy = 50ksi
HIGH-STRENGTH BOLTS	F3125	GRADE A325, TYPE 1	Fy = 92ksi
TWIST-OFF-TYPE TENSION-CONTROL BOLTS	F3125	GRADE F1852, TYPE I	Fy = 92ksi
BOLTS	A307	GRADE A, HEX	Fy = 60ksi
WASHERS	F444		Fy = 36ksi
PLATE WASHERS	A36		
HARDENED WASHERS	F436	TYPE I	
DIRECT-TENSION INDICATOR WASHERS	F959	TYPE 325	
NUTS FOR HS & TENSION CONTROL BOLTS	A563	GRADE C, HEAVY HEX	
NUTS FOR BOLTS & RODS	A563	GRADE C, HEAVY HEX	
ANCHOR BOLTS & RODS (HEADED OR THREADED & NUTTED)	F1554	CLASS 2A, S3	Fy = 36ksi
		GRADE 36 TYP, UNO	Fy = 55ksi
		GRADE 55, S1 & S4	Fy = 105ksi
		GRADE 105, S4 & S5	
		A108, GRADES 1010 - 1020	
WELDED HEADED STUDS, SHEAR STUDS, & WELDED THREADED STUDS	A408		Fy = 79ksi
WELD FILLER METAL	AWS D1.1		Fy = 70ksi
TURNBUCKLES	F1145 & AISI C-1035		
CLEAVES, CLEVIS PINS, COTTER PINS	AISI C-1035		
EYE-BOLTS & EYEBOLTS	AISI C-1030		
SLEEVE NUTS	AISI C-1018, GRADE 2		
RECESSED NUTS & PINS	A36		
CURLING NUTS	AISI 12L14 CARBON STEEL		
- EXPOSED INTERIOR STEEL SHALL RECEIVE ONE COAT OF PRIMER PAINT, UNO. DO NOT PAINT SURFACES IN DIRECT CONTACT WITH CONCRETE OR MASONRY, WHERE FIELD WELDING IS REQUIRED. WHERE FIRE-PROOFING IS REQUIRED OR CONTACT SURFACES OF STEEL-TO-STEEL, AND DECK-TO-STEEL CONNECTIONS, CONCEALED STEEL DOES NOT REQUIRE PAINT, UNO.
- EXPOSED EXTERIOR STEEL & FASTENERS SHALL BE HOT DIP GALVANIZED, UNO. PROVIDE FILL AND VENT HOLES AT ENCLOSED SPACES OF HOLLOW PIECES. SEAL HOLES WATER-TIGHT AFTER GALVANIZING. PROVIDE DRAIN HOLES AS REQUIRED AT SOLD PIECES. HOLE SIZES AND LOCATIONS SHALL NOT DETRIMENTALLY AFFECT THE PIECES STRUCTURAL CAPACITY AND ARE SUBJECT TO THE STRUCTURAL ENGINEERS REVIEW.
- EXPOSED STRUCTURAL STEEL MEMBERS AND CONNECTIONS VISIBLE TO THE PUBLIC AND BUILDING OCCUPANTS (OTHER THAN MAINTENANCE AREAS) SHALL MEET THE FOLLOWING CRITERIA:
 - FABRICATION, HANDLING, AND SHIPPING SHALL EMPLOY SPECIAL CARE TO ENSURE ACCEPTABLE FINISHED APPEARANCE.
 - WELDS SHALL BE GRIND SMOOTH. GROOVE WELDS SHALL BE MADE FLUSH (+ 1/16", -0"). OVERSIZE WELDS AS REQUIRED.
 - FIELD-WELDING AIDS AND ERECTION AIDS SHALL BE REMOVED AND STEEL SHALL BE REPAIRED AND GRIND SMOOTH.
 - SHOP PIECE MARKS AND MILL MARKS SHALL BE LOCATED SUCH THAT THEY ARE FULLY HIDDEN IN THE FINAL STRUCTURE OR ARE MADE WITH SUCH MEDIA TO PERMIT FILL REMOVAL AFTER ERECTION.
 - GRIND EDGES OF SHEARED, PUNCHED OR FLAME CUT STEEL IN AREAS WITHIN REACH TO TOUCH BY THE PUBLIC AND BUILDING OCCUPANTS.
 - ALIGN AND ORIENT BOLTED CONNECTIONS TO BE UNIFORM AND CONSISTENT.
- PROVIDE CONCRETE / MASONRY COVER AT STEEL BELOW GRADE. STEEL EMBEDDED IN CONCRETE / CAST-IN-PLACE EARTH SHALL HAVE 2" MIN COVER. STEEL EMBEDDED IN FORMED CONCRETE OR MASONRY SHALL HAVE 2" MIN COVER.
- WELDING MATERIALS & PROCEDURES SHALL CONFORM WITH AWS D1.1 AND AWS D1.8 WHERE APPLICABLE.
- MINIMUM SIZE OF FILLET WELDS: 1/8" FOR MATERIAL 1/8" TO 1/4" THICK, 3/16" FOR MATERIAL OVER 1/4" TO 1/2" THICK, 1/4" FOR MATERIAL OVER 1/2" TO 3/4" THICK, AND 5/16" FOR MATERIAL OVER 3/4" THICK. MATERIAL THICKNESS IS FOR THINNER PART JOINED. SINGLE PASS WELDS MUST BE USED FOR SIZES SHOWN. SIZE OF WELD IS LEG DIMENSION OF FILLET. MINIMUM EFFECTIVE LENGTH OF FILLET WELDS SHALL BE NOT LESS THAN FOUR TIMES THE FILLET SIZE. MINIMUM EFFECTIVE LENGTH OF INTERMITTENT FILLET WELDS SHALL BE 1 1/2".
- GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION WELDS, UNO. GROOVE WELDS SHALL BE TERMINATED AT THE END OF JOINTS IN A MANNER THAT WILL ENSURE SOUND WELDS. USE WELD TABS AND BACKING BARS ALIGNED TO PROVIDE AN EXTENSION OF THE JOINT PREPARATION. REMOVE EXTENSIONS UPON COMPLETION & COOLING OF THE WELD. GRIND ENDS OF THE WELD SMOOTH AND FLUSH WITH THE EDGES OF THE ABUTTING PARTS.
- WHERE "ALL AROUND" FILLET WELDS ARE INDICATED AT CONCEALED/NON-EXPOSED SQUARE OR RECTANGULAR HSS CONNECTIONS TO PLATES, FILLET WELDS ARE NOT REQUIRED AT RADIUS CORNERS, UNO.
- BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL BE PLACED IN STANDARD SIZE HOLES. TYP UNO. BOLTS FOR STEEL-TO-CONCRETE/MASONRY CONNECTIONS SHALL BE PLACED IN ANCHOR ROE HOLES, TYP UNO. USE STANDARD AISC PITCH & GAGE FOR BOLTED CONNECTIONS, UNO.
- BOLTS AND RODS SHALL BE CUT-THREAD TYPE WITH FULL DIAMETER BODY STYLE MEETING REQUIREMENTS OF ASME B18.2.1. THE BODY DIAMETER SHALL NOT BE LESS THAN THE MINIMUM MAJOR DIAMETER WHEN THREADS ARE CUT. REDUCED DIAMETER BODY STYLE ROLLED THREAD BOLTS OR RODS ARE NOT PERMITTED.
- STEEL-TO-STEEL BOLTED CONNECTIONS SHALL BE ASSEMBLED UTILIZING HIGH-STRENGTH OR TWIST-OFF-TYPE TENSION CONTROL BOLT ASSEMBLIES, UNO. A BOLT ASSEMBLY CONSISTS OF A MINIMUM OF A BOLT, A HARDENED WASHER AND A NUT. THE HARDENED WASHER SHALL BE PLACED UNDER THE TURNED ELEMENT OF THE BOLT ASSEMBLY. ALSO PROVIDE A HARDENED WASHER AT BOLT HEADS OR NUTS BEARING ON SHORT SLOTTED HOLES. ALSO PROVIDE A 5/16" MINIMUM THICKNESS PLATE WASHER OR CONTINUOUS BAR WITH STD HOLES AT BOLT HEADS OR NUTS BEARING ON LONG SLOTTED HOLES.
- IF DIRECT-TENSION INDICATOR (DTI) WASHERS ARE USED, A "DTI" BOLT ASSEMBLY CONSISTS OF A MINIMUM OF A HIGH STRENGTH BOLT, A HARDENED WASHER, A "DTI" WASHER AND A NUT. INSTALL THE "DTI" WITH THE BUMPS FACING THE UNDERSIDE OF THE BOLT HEAD OR NUT. THE HARDENED WASHER SHALL BE PLACED UNDER THE TURNED ELEMENT OF THE "DTI" BOLT ASSEMBLY. IF THE "DTI" IS PLACED UNDER THE TURNED ELEMENT OF THE BOLT ASSEMBLY, PLACE THE HARDENED WASHER BETWEEN THE "DTI" AND THE TURNED ELEMENT. ALSO PROVIDE A HARDENED WASHER AT "DTI's, BOLT HEADS OR NUTS BEARING ON OVERSIZE OR SHORT SLOTTED HOLES. ALSO PROVIDE A 5/16" MINIMUM THICKNESS PLATE WASHER OR CONTINUOUS BAR W/ STD HOLES AT "DTI's, BOLT HEADS OR NUTS BEARING ON LONG SLOTTED HOLES.
- BOLT HEADS, NUTS OR "DTI'S OF BOLTED STEEL-TO-STEEL AND STEEL-TO-CONCRETE/ MASONRY CONNECTIONS BEARING ON SLOPING SURFACES SHALL USE A BEVELED HARDENED WASHER IN THE BOLT ASSEMBLY AT THAT SURFACE.
- HIGH-STRENGTH BOLT ASSEMBLIES SHALL BE PRE-TENSIONED. FAYING SURFACES OF HIGH-STRENGTH BOLT ASSEMBLIES SHALL BE PREPARED AS REQUIRED FOR CLASS A OR BETTER SLIP-CRITICAL JOINTS.

FILE NO. ?XX-XXXX?

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

?XX-XXX?

AC _____ FLS _____ SS _____
DATE _____

LIONAKIS

1919 Nineteenth Street
Sacramento CA 95811
P 916.558.1900 F 916.558.1919
www.lionakis.com

CONSULTANT

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SEAL



PROJECT
**PUBLIC SAFETY CENTER /
ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT**

3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

ISSUED

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT

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CLIENT PROJECT NO. -
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TITLE

TYPICAL NOTES

SHEET

S-012



INTERNALLY THREADED SCREW ANCHOR

1. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW. TYP UNO. ALL EMBEDMENTS SPECIFIED ARE NOMINAL EMBEDMENT DEPTHS REQUIRED.

ANCHOR DIA	GENERAL CONCRETE & TOPSIDE OF CONC O/ STEEL DECK		UNDERSIDE OF CONC OVER STEEL DECK	
	LOWER FLUTE	UPPER FLUTE	LOWER FLUTE	UPPER FLUTE
3/8"	1 1/2"	1 1/2"	3/8"	1/2"
1/2"	2 3/16"	2 3/16"	1 5/8"	2 3/16"
3/4"	3 1/4"	3 1/4"	2 1/2"	3 1/4"
1"	4 1/4"	4 1/4"	3 1/2"	4 1/4"
1 1/8"	5 1/4"	5 1/4"	4 1/2"	5 1/4"
1 1/4"	6 1/4"	6 1/4"	5 1/2"	6 1/4"
1 1/2"	7 1/4"	7 1/4"	6 1/2"	7 1/4"
1 3/8"	8 1/4"	8 1/4"	7 1/2"	8 1/4"
1 1/2"	9 1/4"	9 1/4"	8 1/2"	9 1/4"
1 5/8"	10 1/4"	10 1/4"	9 1/2"	10 1/4"
1 3/4"	11 1/4"	11 1/4"	10 1/2"	11 1/4"
1 7/8"	12 1/4"	12 1/4"	11 1/2"	12 1/4"
2"	13 1/4"	13 1/4"	12 1/2"	13 1/4"
2 1/8"	14 1/4"	14 1/4"	13 1/2"	14 1/4"
2 1/4"	15 1/4"	15 1/4"	14 1/2"	15 1/4"
2 3/8"	16 1/4"	16 1/4"	15 1/2"	16 1/4"
2 1/2"	17 1/4"	17 1/4"	16 1/2"	17 1/4"
2 5/8"	18 1/4"	18 1/4"	17 1/2"	18 1/4"
2 3/4"	19 1/4"	19 1/4"	18 1/2"	19 1/4"
2 7/8"	20 1/4"	20 1/4"	19 1/2"	20 1/4"
3"	21 1/4"	21 1/4"	20 1/2"	21 1/4"
3 1/8"	22 1/4"	22 1/4"	21 1/2"	22 1/4"
3 1/4"	23 1/4"	23 1/4"	22 1/2"	23 1/4"
3 3/8"	24 1/4"	24 1/4"	23 1/2"	24 1/4"
3 1/2"	25 1/4"	25 1/4"	24 1/2"	25 1/4"
3 5/8"	26 1/4"	26 1/4"	25 1/2"	26 1/4"
3 3/4"	27 1/4"	27 1/4"	26 1/2"	27 1/4"
3 7/8"	28 1/4"	28 1/4"	27 1/2"	28 1/4"
4"	29 1/4"	29 1/4"	28 1/2"	29 1/4"
4 1/8"	30 1/4"	30 1/4"	29 1/2"	30 1/4"
4 1/4"	31 1/4"	31 1/4"	30 1/2"	31 1/4"
4 3/8"	32 1/4"	32 1/4"	31 1/2"	32 1/4"
4 1/2"	33 1/4"	33 1/4"	32 1/2"	33 1/4"
4 5/8"	34 1/4"	34 1/4"	33 1/2"	34 1/4"
4 3/4"	35 1/4"	35 1/4"	34 1/2"	35 1/4"
4 7/8"	36 1/4"	36 1/4"	35 1/2"	36 1/4"
5"	37 1/4"	37 1/4"	36 1/2"	37 1/4"
5 1/8"	38 1/4"	38 1/4"	37 1/2"	38 1/4"
5 1/4"	39 1/4"	39 1/4"	38 1/2"	39 1/4"
5 3/8"	40 1/4"	40 1/4"	39 1/2"	40 1/4"
5 1/2"	41 1/4"	41 1/4"	40 1/2"	41 1/4"
5 5/8"	42 1/4"	42 1/4"	41 1/2"	42 1/4"
5 3/4"	43 1/4"	43 1/4"	42 1/2"	43 1/4"
5 7/8"	44 1/4"	44 1/4"	43 1/2"	44 1/4"
6"	45 1/4"	45 1/4"	44 1/2"	45 1/4"
6 1/8"	46 1/4"	46 1/4"	45 1/2"	46 1/4"
6 1/4"	47 1/4"	47 1/4"	46 1/2"	47 1/4"
6 3/8"	48 1/4"	48 1/4"	47 1/2"	48 1/4"
6 1/2"	49 1/4"	49 1/4"	48 1/2"	49 1/4"
6 5/8"	50 1/4"	50 1/4"	49 1/2"	50 1/4"
6 3/4"	51 1/4"	51 1/4"	50 1/2"	51 1/4"
6 7/8"	52 1/4"	52 1/4"	51 1/2"	52 1/4"
7"	53 1/4"	53 1/4"	52 1/2"	53 1/4"
7 1/8"	54 1/4"	54 1/4"	53 1/2"	54 1/4"
7 1/4"	55 1/4"	55 1/4"	54 1/2"	55 1/4"
7 3/8"	56 1/4"	56 1/4"	55 1/2"	56 1/4"
7 1/2"	57 1/4"	57 1/4"	56 1/2"	57 1/4"
7 5/8"	58 1/4"	58 1/4"	57 1/2"	58 1/4"
7 3/4"	59 1/4"	59 1/4"	58 1/2"	59 1/4"
7 7/8"	60 1/4"	60 1/4"	59 1/2"	60 1/4"
8"	61 1/4"	61 1/4"	60 1/2"	61 1/4"
8 1/8"	62 1/4"	62 1/4"	61 1/2"	62 1/4"
8 1/4"	63 1/4"	63 1/4"	62 1/2"	63 1/4"
8 3/8"	64 1/4"	64 1/4"	63 1/2"	64 1/4"
8 1/2"	65 1/4"	65 1/4"	64 1/2"	65 1/4"
8 5/8"	66 1/4"	66 1/4"	65 1/2"	66 1/4"
8 3/4"	67 1/4"	67 1/4"	66 1/2"	67 1/4"
8 7/8"	68 1/4"	68 1/4"	67 1/2"	68 1/4"
9"	69 1/4"	69 1/4"	68 1/2"	69 1/4"
9 1/8"	70 1/4"	70 1/4"	69 1/2"	70 1/4"
9 1/4"	71 1/4"	71 1/4"	70 1/2"	71 1/4"
9 3/8"	72 1/4"	72 1/4"	71 1/2"	72 1/4"
9 1/2"	73 1/4"	73 1/4"	72 1/2"	73 1/4"
9 5/8"	74 1/4"	74 1/4"	73 1/2"	74 1/4"
9 3/4"	75 1/4"	75 1/4"	74 1/2"	75 1/4"
9 7/8"	76 1/4"	76 1/4"	75 1/2"	76 1/4"
10"	77 1/4"	77 1/4"	76 1/2"	77 1/4"
10 1/8"	78 1/4"	78 1/4"	77 1/2"	78 1/4"
10 1/4"	79 1/4"	79 1/4"	78 1/2"	79 1/4"
10 3/8"	80 1/4"	80 1/4"	79 1/2"	80 1/4"
10 1/2"	81 1/4"	81 1/4"	80 1/2"	81 1/4"
10 5/8"	82 1/4"	82 1/4"	81 1/2"	82 1/4"
10 3/4"	83 1/4"	83 1/4"	82 1/2"	83 1/4"
10 7/8"	84 1/4"	84 1/4"	83 1/2"	84 1/4"
11"	85 1/4"	85 1/4"	84 1/2"	85 1/4"
11 1/8"	86 1/4"	86 1/4"	85 1/2"	86 1/4"
11 1/4"	87 1/4"	87 1/4"	86 1/2"	87 1/4"
11 3/8"	88 1/4"	88 1/4"	87 1/2"	88 1/4"
11 1/2"	89 1/4"	89 1/4"	88 1/2"	89 1/4"
11 5/8"	90 1/4"	90 1/4"	89 1/2"	90 1/4"
11 3/4"	91 1/4"	91 1/4"	90 1/2"	91 1/4"
11 7/8"	92 1/4"	92 1/4"	91 1/2"	92 1/4"
12"	93 1/4"	93 1/4"	92 1/2"	93 1/4"
12 1/8"	94 1/4"	94 1/4"	93 1/2"	94 1/4"
12 1/4"	95 1/4"	95 1/4"	94 1/2"	95 1/4"
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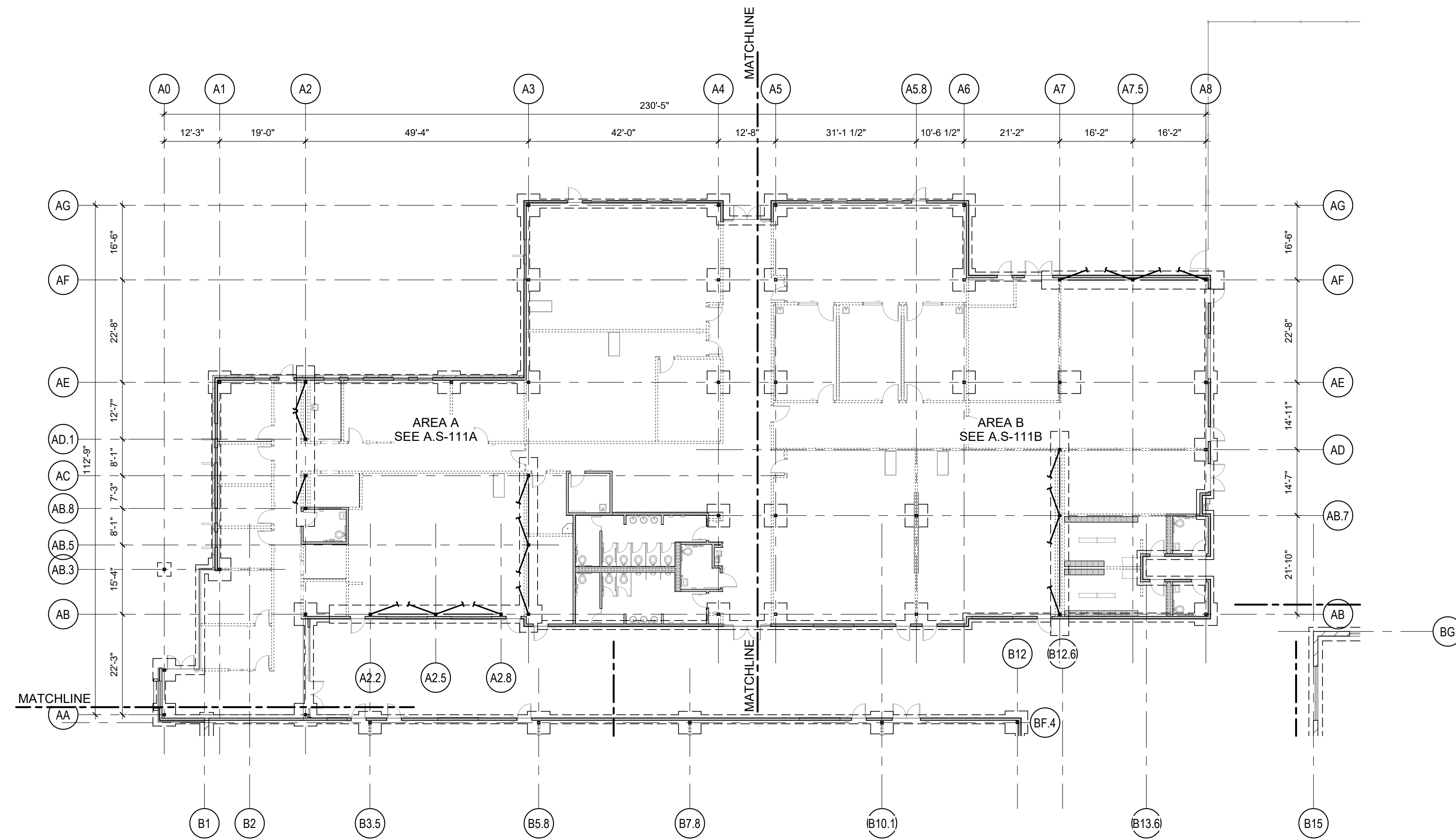
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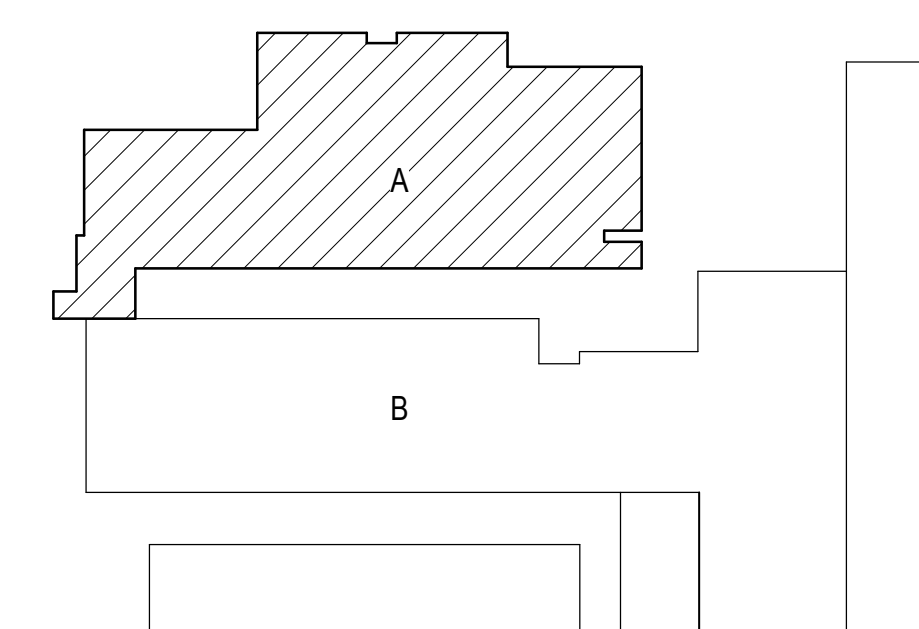
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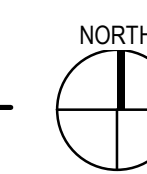
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KEY PLAN



1 BLDG A - PLAN - FOUNDATION - OVERALL
 SCALE: 1/16" = 1'-0"



FILE NO. ?XX-XXXX?

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LIONAKIS

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SEAL



PROJECT
**PUBLIC SAFETY CENTER /
 ADVANCED MANUFACTURING AND
 TRANSPORTATION PROJECT**

3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

CLIENT
 CHABOT-LAS POSITAS COMMUNITY COLLEGE
 DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

ISSUED

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT

LIONAKIS PROJECT NO: 019051
 CLIENT PROJECT NO: _____
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TITLE

**BLDG A - PLAN -
 FOUNDATION -
 OVERALL**

SHEET

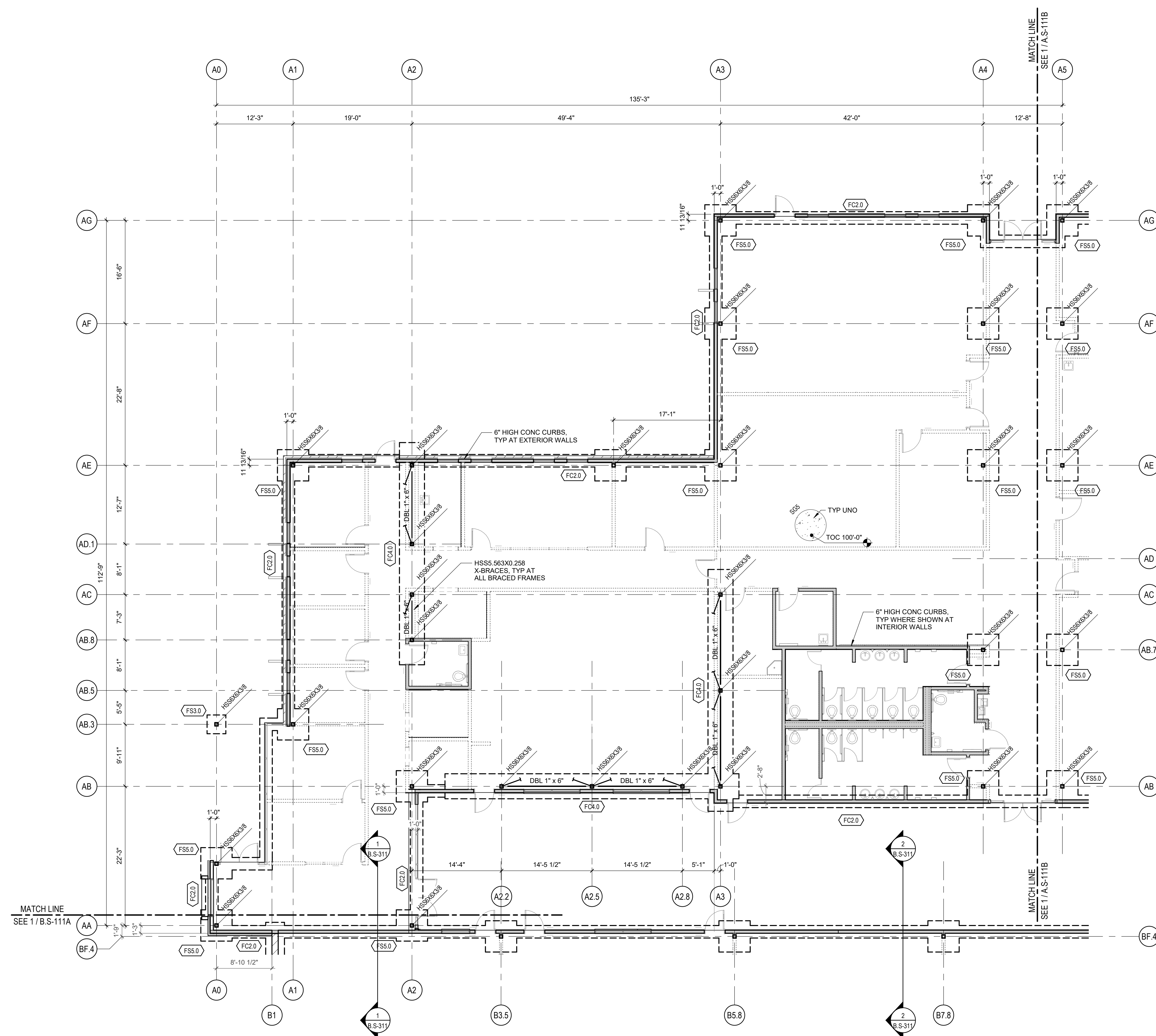
A.S-111

0 1/4" = 1'

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- ### NOTES
- SEE S-000 SERIES SHEETS FOR GENERAL NOTES & S-500 SERIES SHEETS FOR TYPICAL DETAILS.
 - SEE S-200 SERIES SHEETS FOR WALL & FRAMING ELEVATIONS.
 - DIMENSIONS ARE TO FOS OR CENTERLINE OF COLUMNS/POSTS, UNO. SEE SECTIONS & DETAILS FOR FOC LOCATIONS RELATIVE TO FOS.
 - SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS.
 - SEE ARCH DWGS FOR DIMENSIONS OF SLAB DEPRESSIONS & SLOPED SLABS.
 - SEE ARCH & OTHER CONSULTANT DWGS FOR FLOOR PENETRATIONS NOT SHOWN. SAWCUT OR CORE DRILL CLEAN HOLES WITH NO OVERCUTTING. COMPLY WITH TYPICAL DETAILS.
 - SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ENGINEERED FILL.
 - EXTERIOR CONCRETE FLATWORK IS NOT SHOWN. SEE CIVIL & ARCH DWGS.
 - CONTINUOUS WALL FOOTINGS TO BE CENTERED UNDER WALLS AND PAD FOOTINGS TO BE CENTERED UNDER COLUMNS, TYP UNO.
 - TOP OF FOOTINGS SHALL BE 1'-4" BELOW FINISHED FLOOR (TOF 98'-8"), TYP UNO. SEE ARCH & OTHER CONSULTANT DRAWINGS FOR UTILITIES THAT WILL AFFECT FOOTINGS AND COMPLY WITH TYPICAL DETAILS.
 - SEE SCHEDULE FOR CONTINUOUS FOOTING SIZE & REINF, TYP UNO.
 - EXTERIOR WALLS ARE 600S162-54 STEEL STUDS @ 16" OC, TYP UNO.

SCHEDULES

DECK SCHEDULE	
TYPE	DESCRIPTION
DB1.1	1 1/2" X 18 GA TYPE "B" STEEL DECK
SG5	6" CONC SLAB OJ SUB-BASE W/ #4 @ 16" OC

CONTINUOUS FOOTING SCHEDULE				
TYPE	WIDTH	DEPTH	REINFORCEMENT	REMARKS
FC2.0	2'-0"	2'-0"	(4) #5 EW AT BOT	
FC4.0	4'-0"	3'-0"	(6) #5 EW AT BOT	

SPREAD FOOTING SCHEDULE				
TYPE	SIZE	DEPTH	REINFORCEMENT	REMARKS
FS3.0	2'-0"	2'-0"	(4) #5 EW AT BOT	
FS5.0	2'-0"	2'-0"	(6) #5 EW AT BOT	
FS6.0	2'-0"	2'-0"	(7) #5 EW AT BOT	

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LIONAKIS
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 P 916.558.1900 F 916.558.1919
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CONSULTANT

PROJECT
**PUBLIC SAFETY CENTER /
 ADVANCED MANUFACTURING AND
 TRANSPORTATION PROJECT**

3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

CLIENT
 CHABOT-LAS POSITAS COMMUNITY COLLEGE
 DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

ISSUED

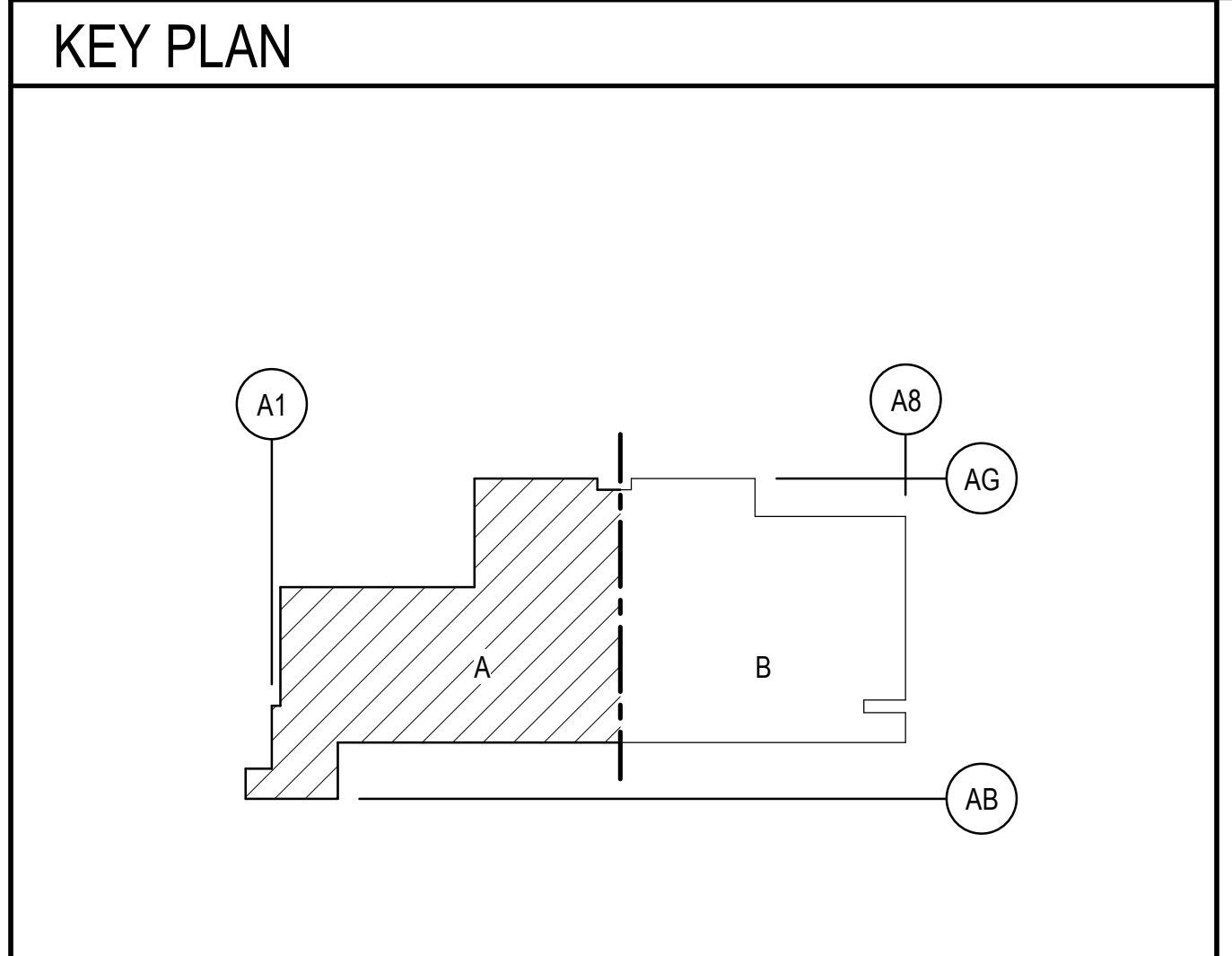
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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LEGEND

(E) ELEMENTS SHOWN FADED - LINETYPE AND PATTERN/HATCHING AS NOTED FOR NEW CONSTRUCTION

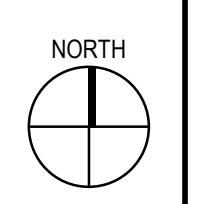
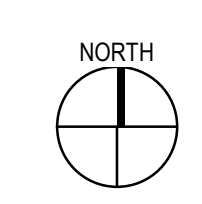
- STRUCTURAL STUD WALL
- STRUCTURAL MASONRY WALL
- NON-STRUCTURAL WALL, SAD
- CONCRETE CURB OR PAD
- DEPRESSED SLAB AREA
- SAD FOR EXTENTS
- SLAB STEP SYMBOL
- ELEVATION RELATIVE TO TOC
- CONC SLAB / STEEL DECK TYPE AND SPAN DIRECTION
- DIAGONAL BRACE ABOVE
- DIAGONAL BRACE BELOW
- C.O. SIZE
- COLUMN WITH CALLOUT
- CONTINUOUS FOOTING TAG (FCX.X)
- SPREAD FOOTING TAG (FSX.X)
- FOOTING
- STEPPED FOOTING



TITLE
**BLDG A - PLAN -
 FOUNDATION - AREA A**

SHEET
A.S-111A

1 BLDG A - PLAN - FOUNDATION - AREA A
 SCALE 1/8" = 1'-0"



0 1/4" = 1'

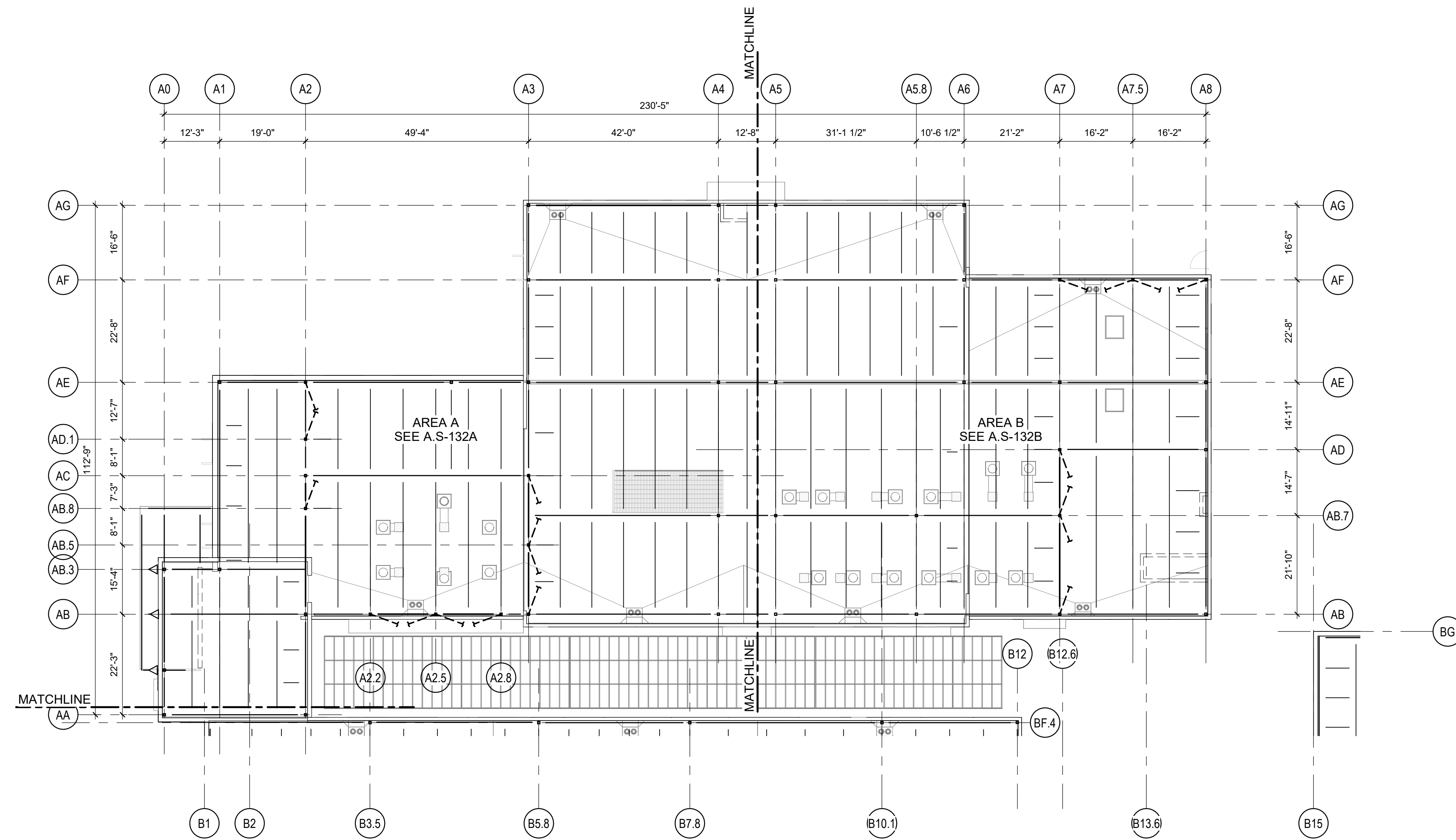
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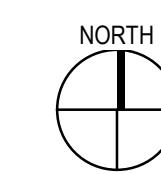
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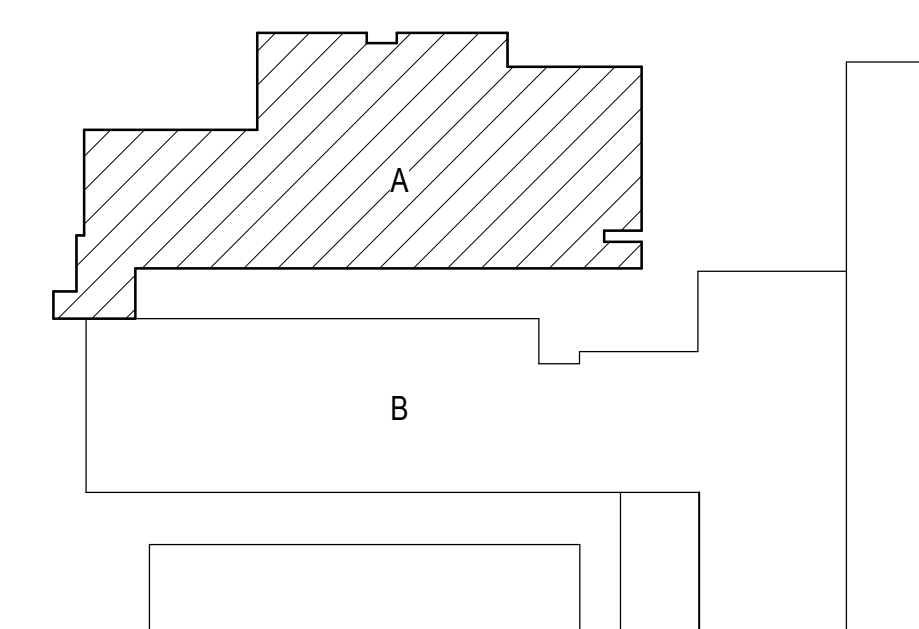
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1 BLDG A - PLAN - ROOF FRAMING - OVERALL
SCALE 1/16" = 1'-0"



KEY PLAN



TITLE
BLDG A - PLAN - ROOF FRAMING - OVERALL

SHEET
A.S-132

FILE NO. ?XX-XXXX?

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

?XX-XXX?

AC FLS SS

DATE

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SEAL



PROJECT
PUBLIC SAFETY CENTER /
ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT

3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

ISSUED		
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT	
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0 1/4" = 1'

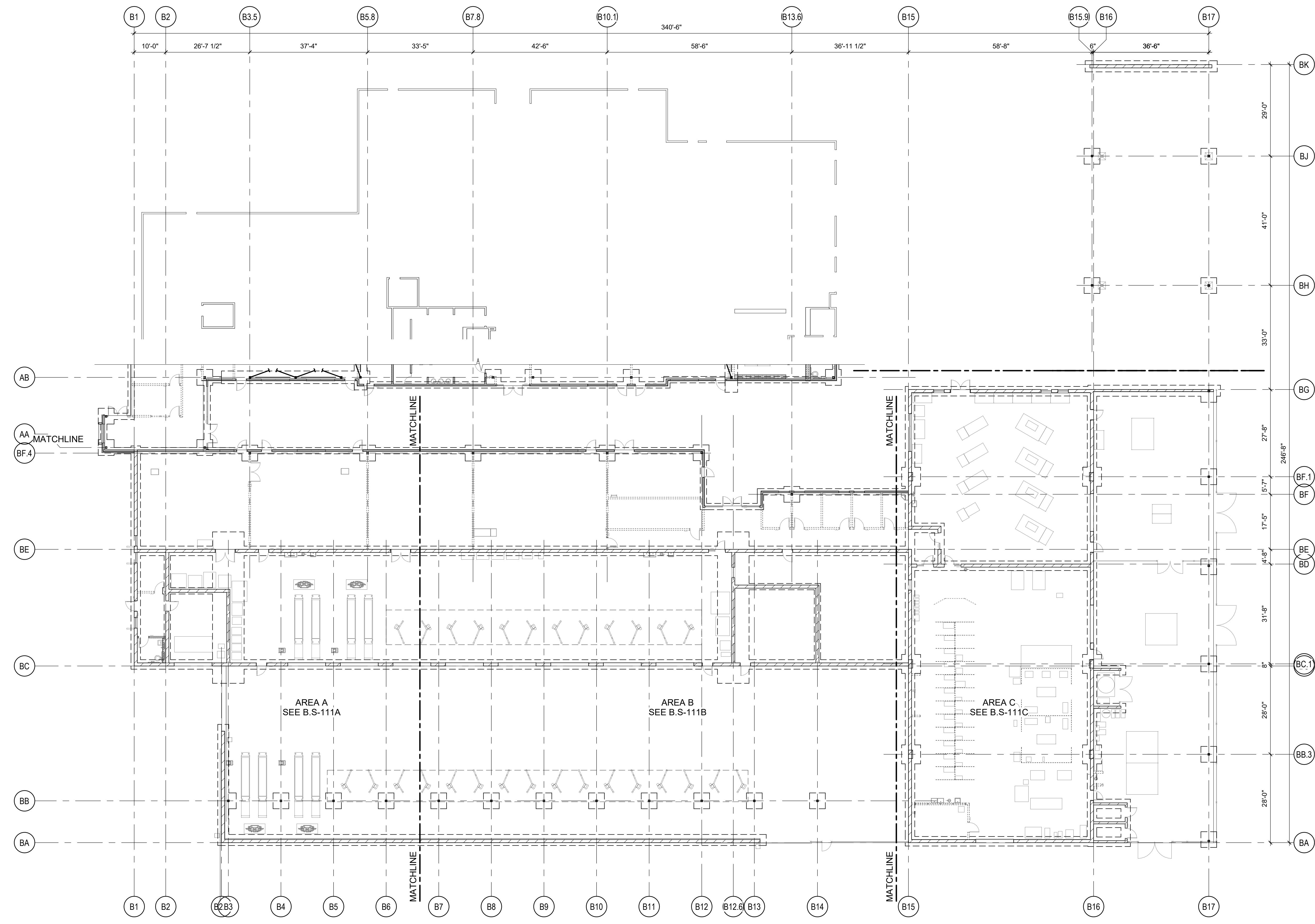
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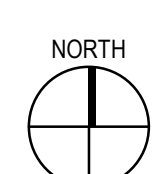
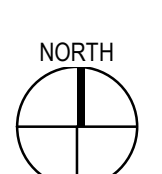
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1 BLDG B - PLAN - FOUNDATION - OVERALL
SCALE 1/16" = 1'-0"



FILE NO. ?XX-XXXX?
IDENTIFICATION STAMP
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?XX-XXX?
AC _____ FLS _____ SS _____
DATE _____

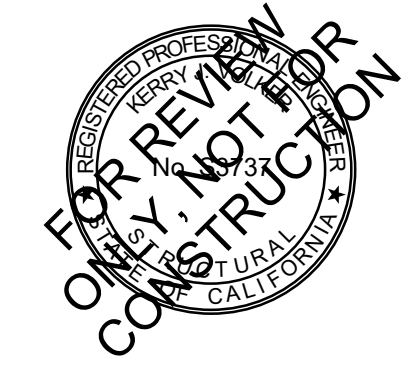
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SEAL



PROJECT
**PUBLIC SAFETY CENTER /
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TRANSPORTATION PROJECT**

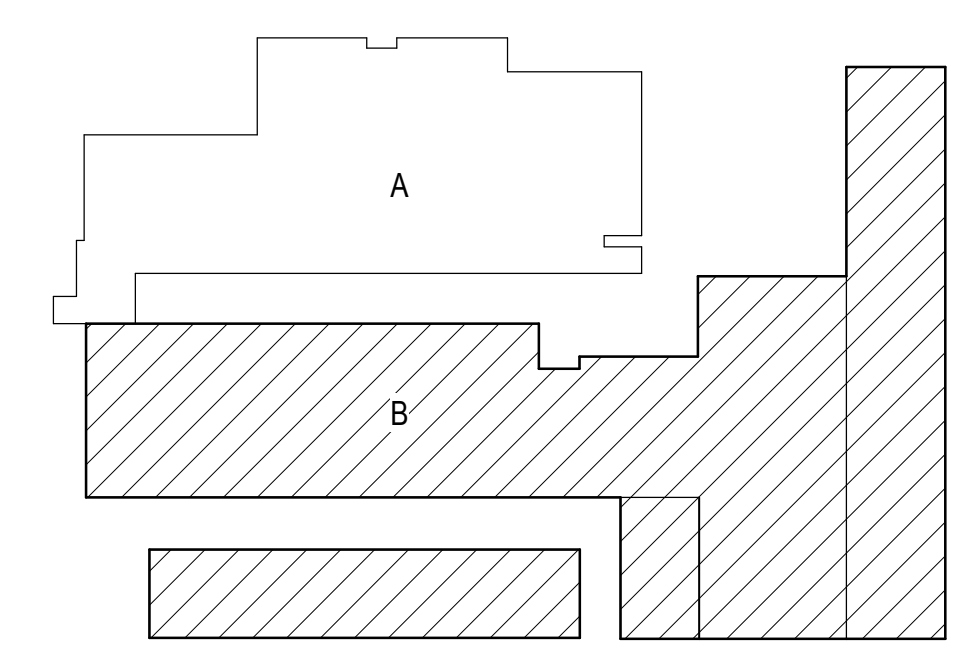
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

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MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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KEY PLAN

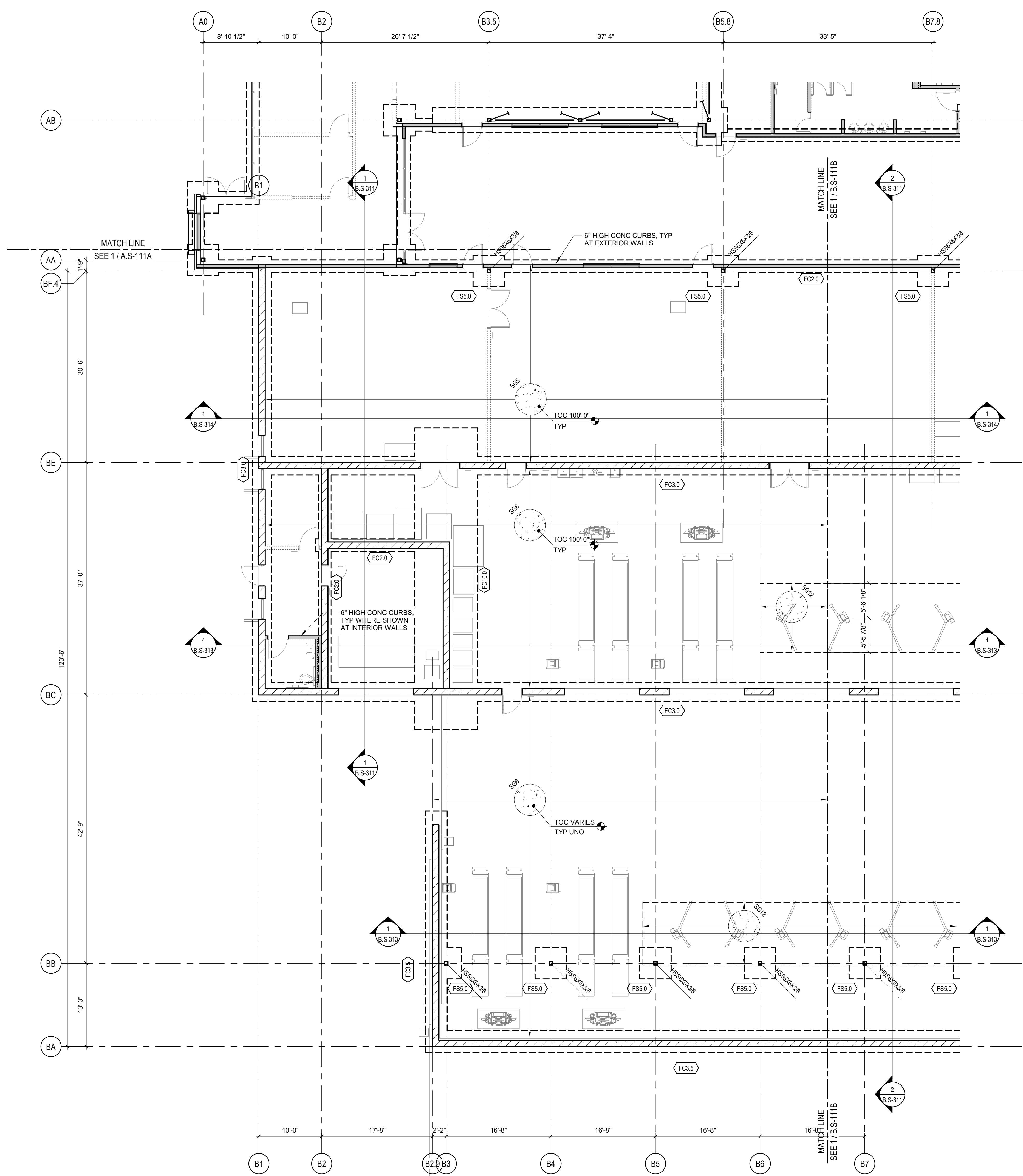


TITLE
**BLDG B - PLAN -
FOUNDATION -
OVERALL**

SHEET
B.S-111

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1 BLDG B - PLAN - FOUNDATION - AREA A
SCALE 1/8" = 1'-0"

NOTES

- SEE S-000 SERIES SHEETS FOR GENERAL NOTES & S-500 SERIES SHEETS FOR TYPICAL DETAILS.
- SEE S-200 SERIES SHEETS FOR WALL & FRAMING ELEVATIONS.
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- SEE SCHEDULE FOR CONTINUOUS FOOTING SIZE & REINF. TYP UNO.
- EXTERIOR WALLS ARE 12" CMU GROUDED SOLID W/ STD REINF. TYP UNO.

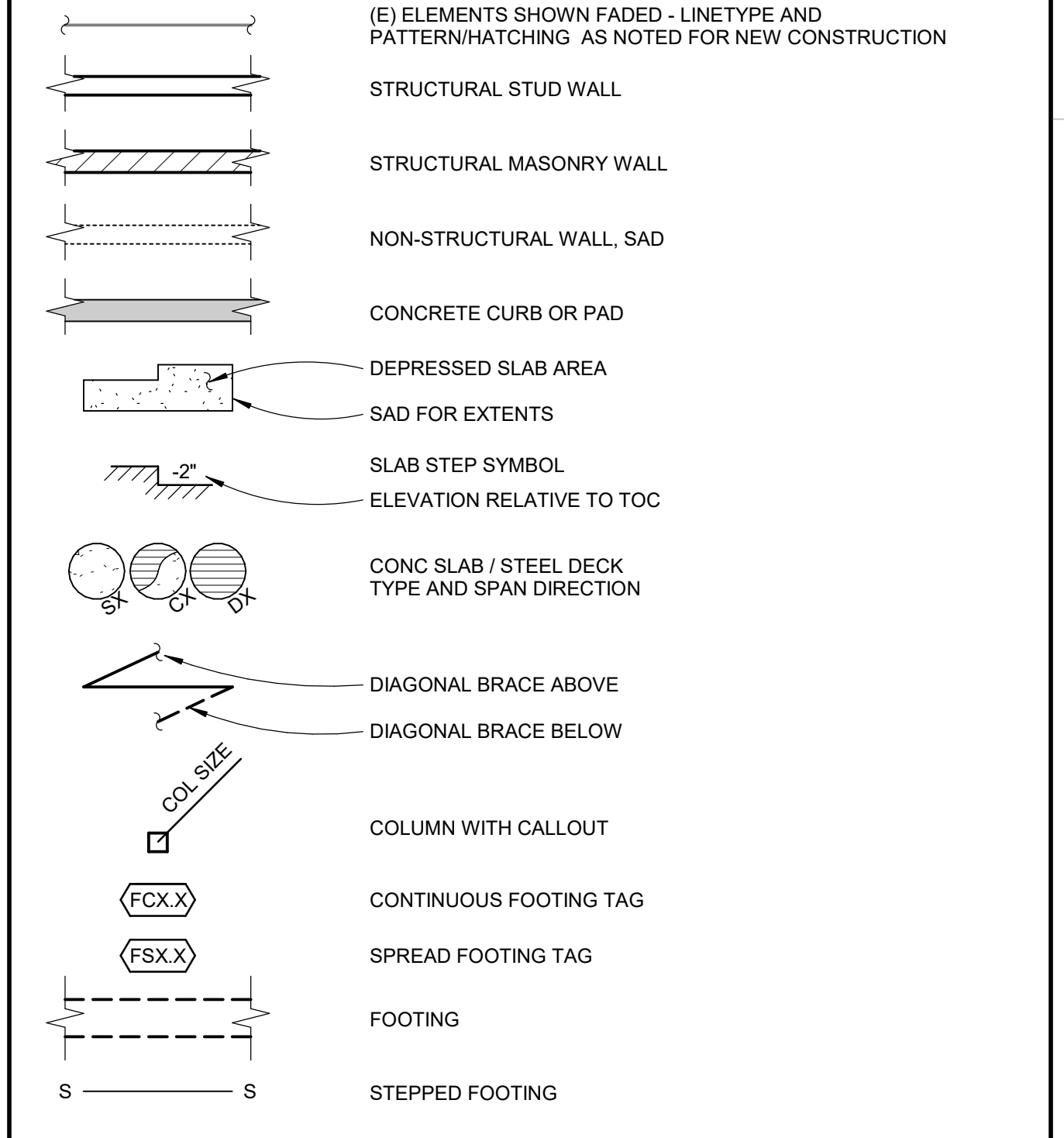
SCHEDULES

DECK SCHEDULE	
TYPE	DESCRIPTION
DB1.1	1 1/2" X 18 GA TYPE "B" STEEL DECK
DB1.2	1 1/2" X 18 GA TYPE "B" STEEL DECK W/ G90 COATING
SG5	5" CONC SLAB O/ SUB-BASE W/ #4 @ 16" OC
SG6	6" CONC SLAB O/ SUB-BASE W/ #5 @ 16" OC
SG12	12" CONC SLAB O/ SUB-BASE W/ (2) LAYERS OF #5 @ 16" OC

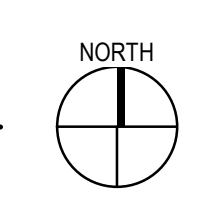
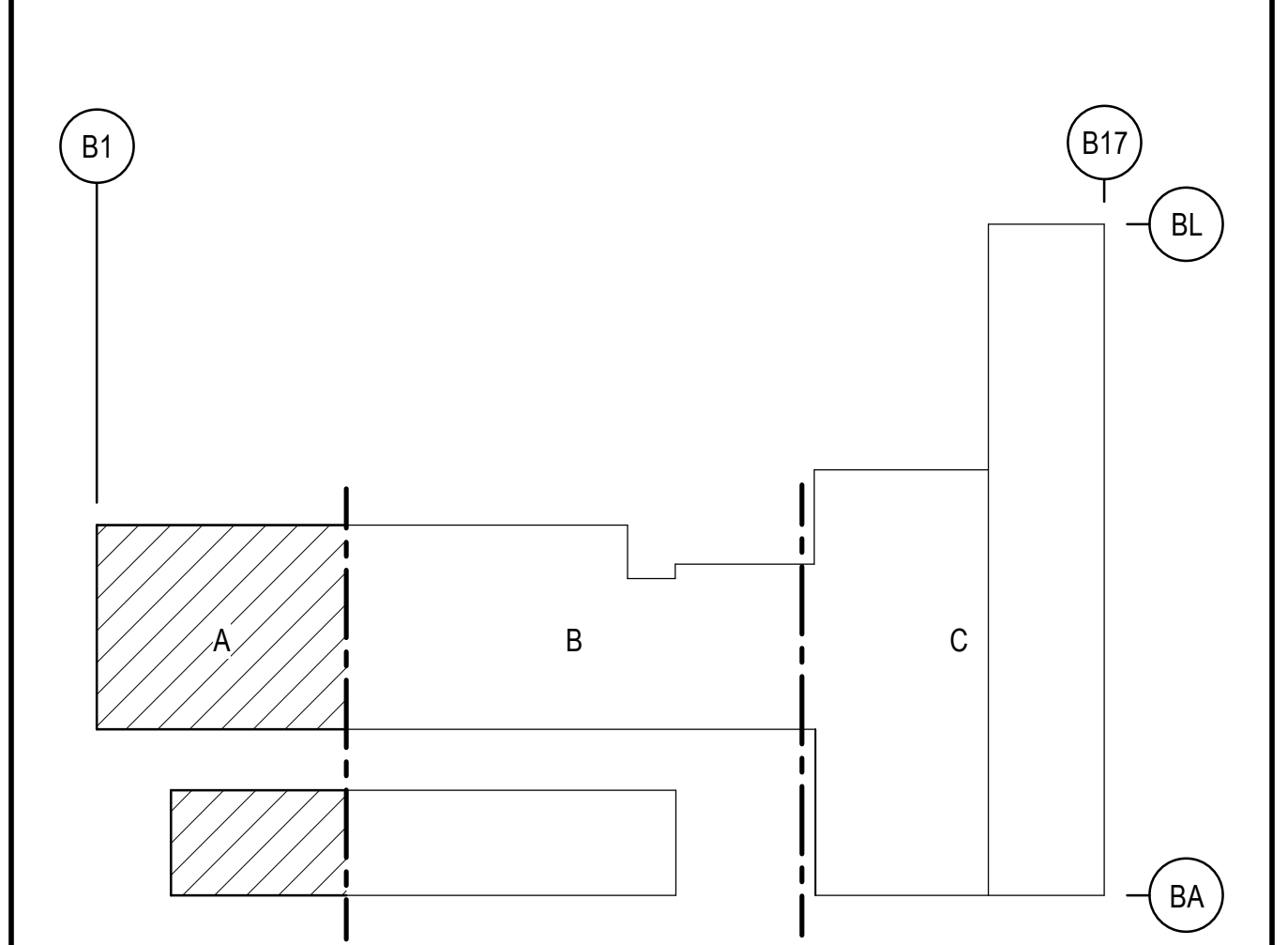
CONTINUOUS FOOTING SCHEDULE				
TYPE	WIDTH	DEPTH	REINFORCEMENT	REMARKS
FC2.0	2'-0"	2'-0"	(4) #5 EW AT BOT	
FC3.0	3'-0"	2'-0"	(6) #5 EW AT BOT	
FC3.5	3'-6"	2'-0"	(7) #5 EW AT BOT	
FC10.0	10'-0"	2'-0"	(7) #5 EW AT BOT	

SPREAD FOOTING SCHEDULE				
TYPE	SIZE	DEPTH	REINFORCEMENT	REMARKS
FS3.0	2'-0"	2'-0"	(4) #5 EW AT BOT	
FS5.0	2'-0"	2'-0"	(6) #5 EW AT BOT	
FS6.0	2'-0"	2'-0"	(7) #5 EW AT BOT	

LEGEND



KEY PLAN

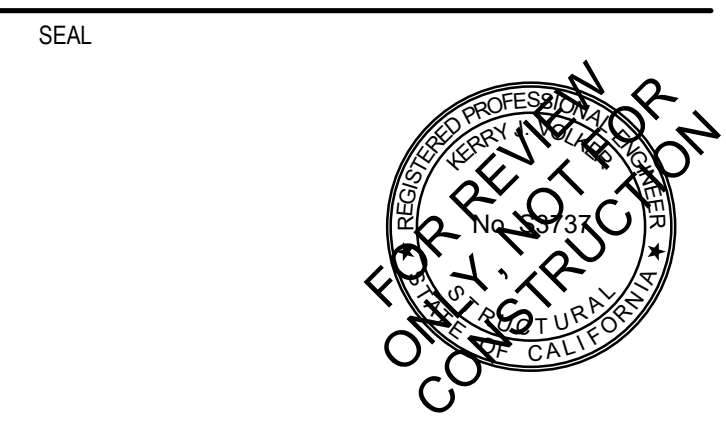


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3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
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DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

ISSUED		
MARK	DATE	DESCRIPTION
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MANAGEMENT	
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TITLE
**BLDG B - PLAN -
FOUNDATION - AREA A**

SHEET
B.S-111A

0 1/4" = 1'

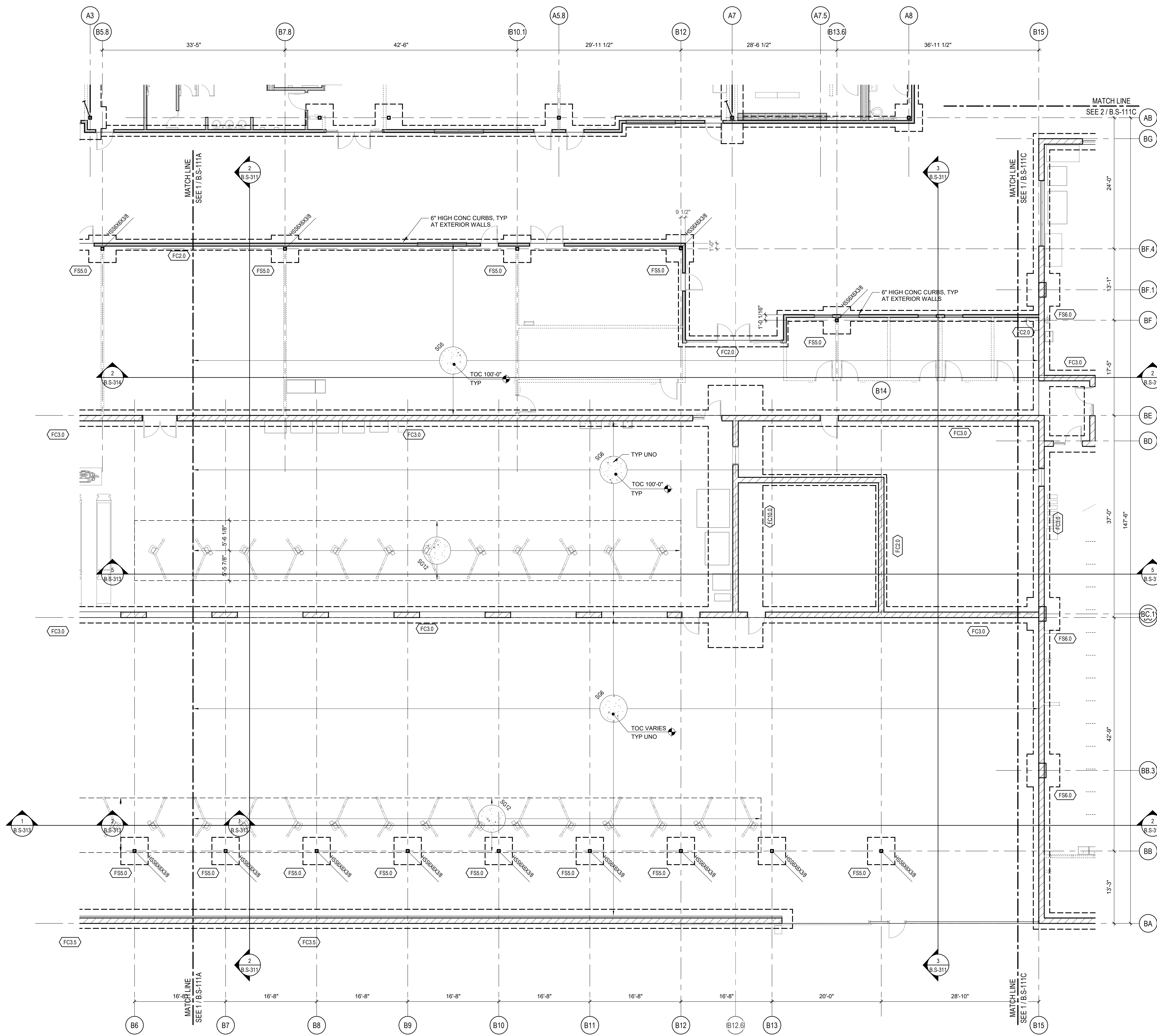
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B

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- ### NOTES
- SEE S-000 SERIES SHEETS FOR GENERAL NOTES & S-500 SERIES SHEETS FOR TYPICAL DETAILS.
 - SEE S-200 SERIES SHEETS FOR WALL & FRAMING ELEVATIONS.
 - DIMENSIONS ARE TO FOS OR CENTERLINE OF COLUMNS/POSTS, UNO. SEE SECTIONS & DETAILS FOR FOC LOCATIONS RELATIVE TO FOS.
 - SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS.
 - SEE ARCH DWGS FOR DIMENSIONS OF SLAB DEPRESSIONS & SLOPED SLABS.
 - SEE ARCH & OTHER CONSULTANT DWGS FOR FLOOR PENETRATIONS NOT SHOWN. SAWCUT OR CORE DRILL CLEAN HOLES WITH NO OVERCUTTING. COMPLY WITH TYPICAL DETAILS.
 - SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ENGINEERED FILL.
 - EXTERIOR CONCRETE FLOWWORK IS NOT SHOWN. SEE CIVIL & ARCH DWGS.
 - CONTINUOUS WALL FOOTINGS TO BE CENTERED UNDER WALLS AND PAD FOOTINGS TO BE CENTERED UNDER COLUMNS, TYP UNO.
 - TOP OF FOOTINGS SHALL BE 1'-4" BELOW FINISHED FLOOR (TOF 98'-8"), TYP UNO. SEE ARCH & OTHER CONSULTANT DRAWINGS FOR UTILITIES THAT WILL AFFECT FOOTINGS AND COMPLY WITH TYPICAL DETAILS.
 - SEE SCHEDULE FOR CONTINUOUS FOOTING SIZE & REINF. TYP UNO.
 - EXTERIOR WALLS ARE 12" CMU GROUDED SOLID W/ STD REINF. TYP UNO.

SCHEDULES

DECK SCHEDULE

TYPE	DESCRIPTION
DB1.1	1 1/2" X 18 GA TYPE "B" STEEL DECK
DB1.2	1 1/2" X 18 GA TYPE "B" STEEL DECK W/ G90 COATING
SG5	5" CONC SLAB O/ SUB-BASE W/ #4 @ 16" OC
SG6	6" CONC SLAB O/ SUB-BASE W/ #5 @ 16" OC
SG12	12" CONC SLAB O/ SUB-BASE W/ (2) LAYERS OF #5 @ 16" OC

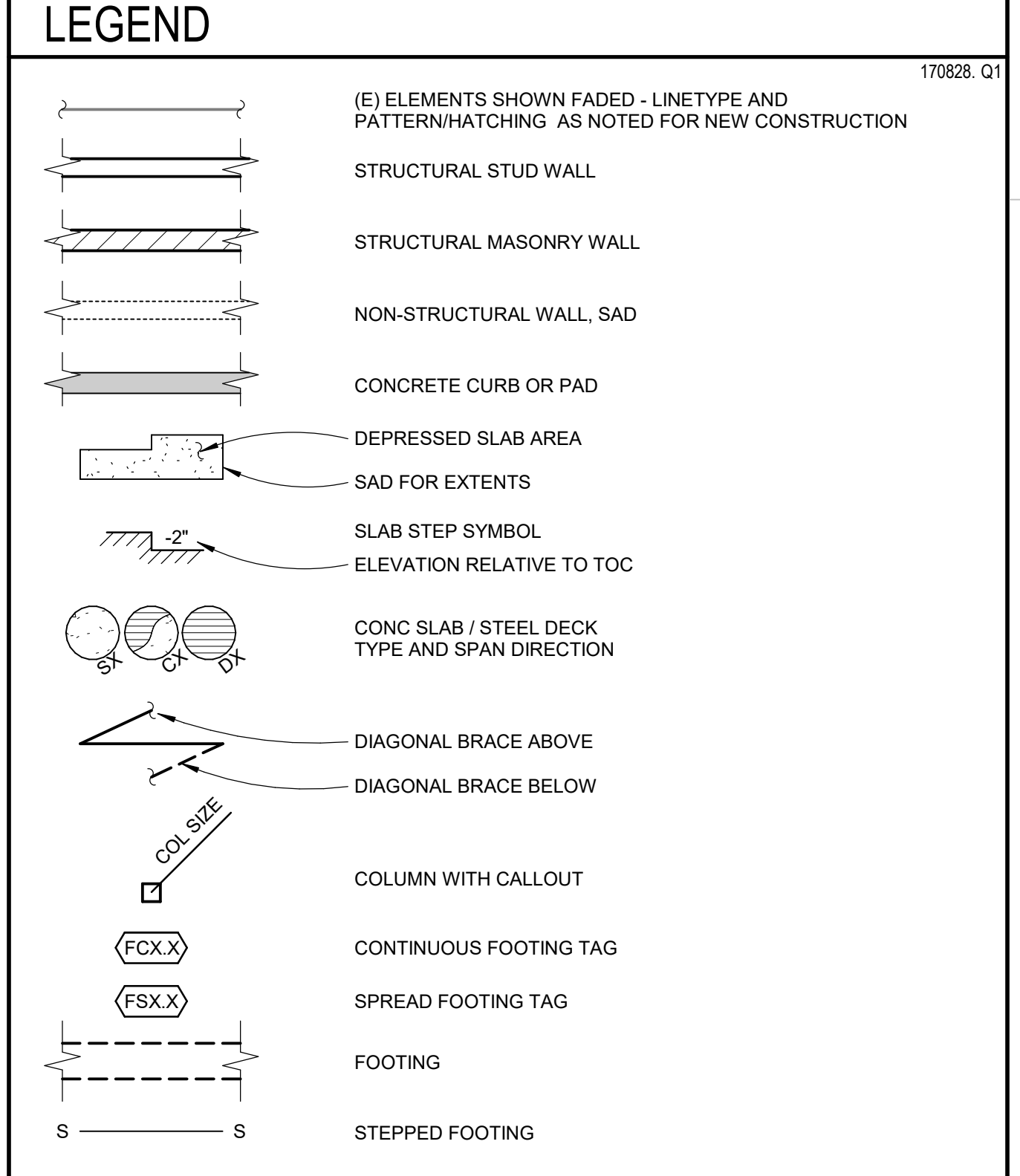
CONTINUOUS FOOTING SCHEDULE

TYPE	WIDTH	DEPTH	REINFORCEMENT	REMARKS
FC2.0	2'-0"	2'-0"	(4) #5 AT BOT	
FC3.0	3'-0"	2'-0"	(6) #5 AT BOT	
FC3.5	3'-6"	2'-0"	(7) #5 AT BOT	
FC10.0	10'-0"	2'-0"	(7) #5 AT BOT	

SPREAD FOOTING SCHEDULE

TYPE	SIZE	DEPTH	REINFORCEMENT	REMARKS
FS3.0	2'-0"	2'-0"	(4) #5 AT BOT	
FS5.0	2'-0"	2'-0"	(6) #5 AT BOT	
FS6.0	2'-0"	2'-0"	(7) #5 AT BOT	

- ### LEGEND
- (E) ELEMENTS SHOWN FADED - LINETYPE AND PATTERN/HATCHING AS NOTED FOR NEW CONSTRUCTION
 - STRUCTURAL STUD WALL
 - STRUCTURAL MASONRY WALL
 - NON-STRUCTURAL WALL, SAD
 - CONCRETE CURB OR PAD
 - DEPRESSED SLAB AREA
 - SAD FOR EXTENTS
 - SLAB STEP SYMBOL
 - ELEVATION RELATIVE TO TOC
 - CONC SLAB / STEEL DECK TYPE AND SPAN DIRECTION
 - DIAGONAL BRACE ABOVE
 - DIAGONAL BRACE BELOW
 - C.O. SIZE
 - COLUMN WITH CALLOUT
 - CONTINUOUS FOOTING TAG (FCX)
 - SPREAD FOOTING TAG (FSX)
 - FOOTING
 - STEPPED FOOTING



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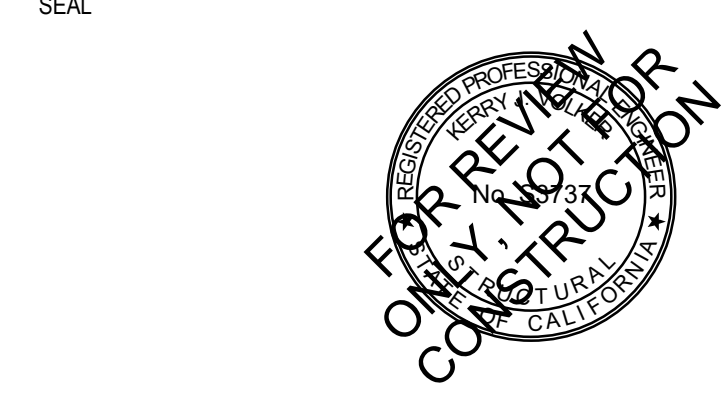
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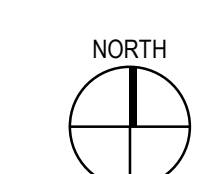
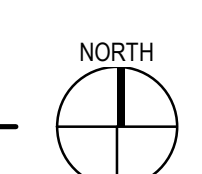
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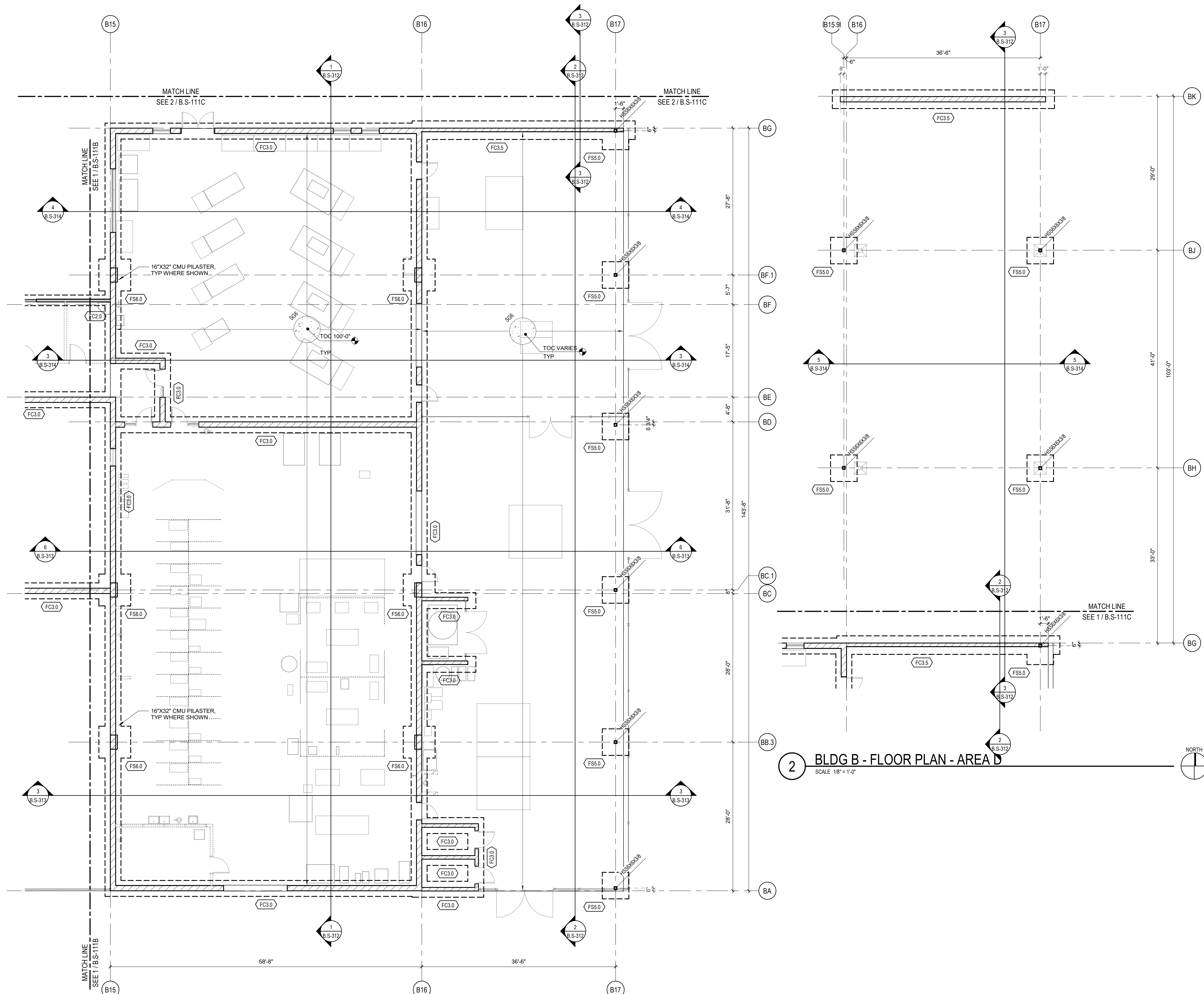
1 BLDG B - PLAN - FOUNDATION - AREA B
SCALE 1/8" = 1'-0"



TITLE
**BLDG B - PLAN -
FOUNDATION - AREA B**

SHEET
B.S-111B

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1 BLDG B - PLAN - FOUNDATION - AREA C
SCALE 1/8" = 1'-0"

2 BLDG B - FLOOR PLAN - AREA D
SCALE 1/8" = 1'-0"

NOTES

- SEE S-000 SERIES SHEETS FOR GENERAL NOTES & S-500 SERIES SHEETS FOR TYPICAL DETAILS.
- SEE S-200 SERIES SHEETS FOR WALL & FRAMING ELEVATIONS.
- DIMENSIONS ARE TO FOS OR CENTERLINE OF COLUMNS/POSTS, UNO. SEE SECTIONS & DETAILS FOR FOC LOCATIONS RELATIVE TO FOS.
- SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS.
- SEE ARCH DWGS FOR DIMENSIONS OF SLAB DEPRESSIONS & SLOPED SLABS.
- SEE ARCH & OTHER CONSULTANT DWGS FOR FLOOR PENETRATIONS NOT SHOWN. SAWCUT OR CORE DRILL CLEAN HOLES WITH NO OVERCUTTING. COMPLY WITH TYPICAL DETAILS.
- SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ENGINEERED FILL.
- EXTERIOR CONCRETE FLATWORK IS NOT SHOWN. SEE CIVIL & ARCH DWGS.
- CONTINUOUS WALL FOOTINGS TO BE CENTERED UNDER WALLS AND PAD FOOTINGS TO BE CENTERED UNDER COLUMNS, TYP UNO.
- TOP OF FOOTINGS SHALL BE 1'-4" BELOW FINISHED FLOOR (TOF 98'-6"), TYP UNO. SEE ARCH & OTHER CONSULTANT DRAWINGS FOR UTILITIES THAT WILL AFFECT FOOTINGS AND COMPLY WITH TYPICAL DETAILS.
- SEE SCHEDULE FOR CONTINUOUS FOOTING SIZE & REINF. TYP UNO.
- EXTERIOR WALLS ARE 12" CMU GROUDED SOLID W/ STD REINF. TYP UNO.

SCHEDULES

DECK SCHEDULE	
TYPE	DESCRIPTION
DB1.1	1 1/2" X 18 GA TYPE "B" STEEL DECK
DB1.2	1 1/2" X 18 GA TYPE "B" STEEL DECK W/ G90 COATING
SG5	5" CONC SLAB O/ SUB-BASE W/ #4 @ 16" OC
SG6	6" CONC SLAB O/ SUB-BASE W/ #5 @ 16" OC
SG12	12" CONC SLAB O/ SUB-BASE W/ (2) LAYERS OF #5 @ 16" OC

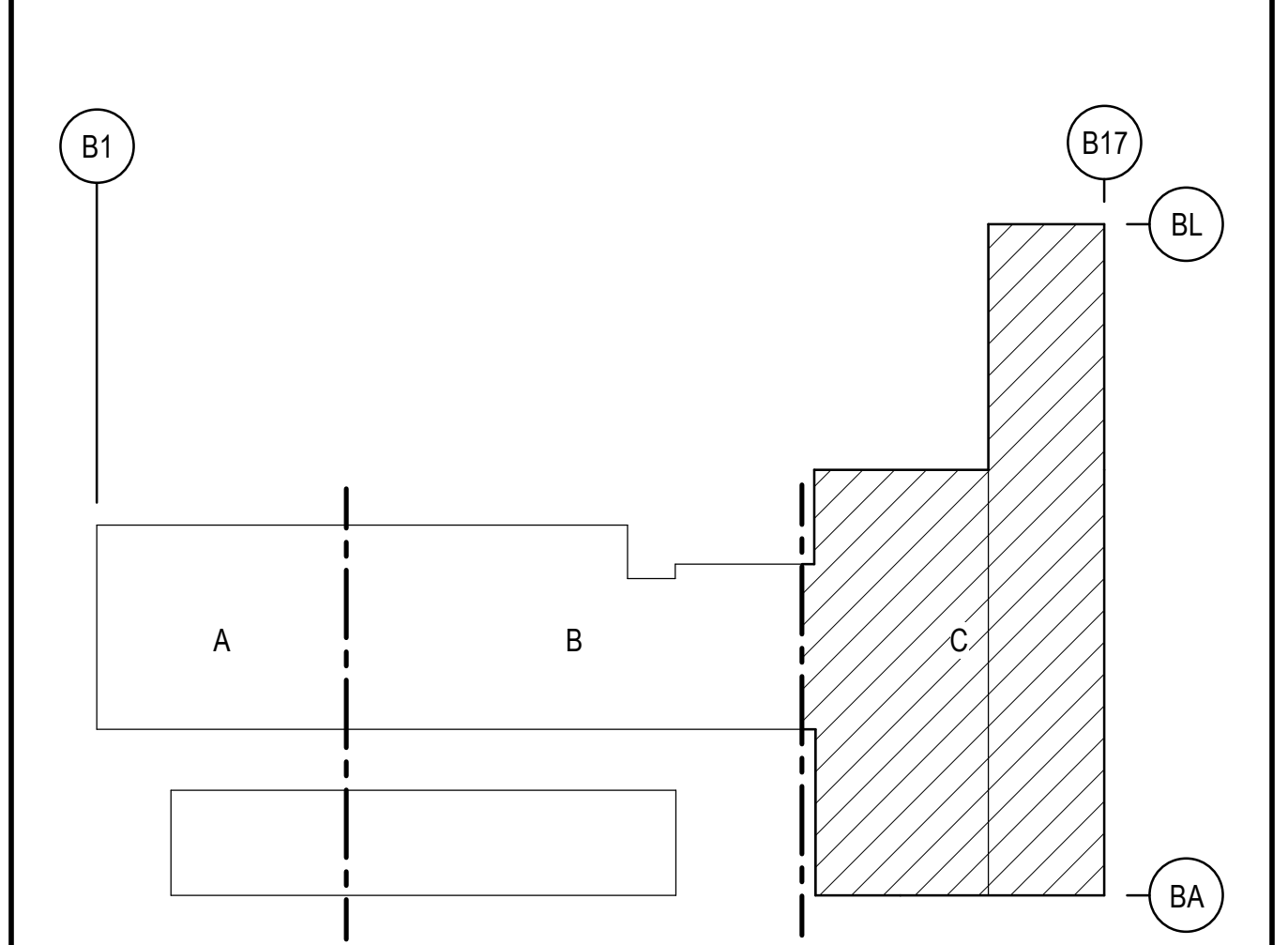
CONTINUOUS FOOTING SCHEDULE				
TYPE	WIDTH	DEPTH	REINFORCEMENT	REMARKS
FC2.0	2'-0"	2'-0"	(4) #5 EW AT BOT	
FC3.0	3'-0"	2'-0"	(6) #5 EW AT BOT	
FC3.5	3'-6"	2'-0"	(7) #5 EW AT BOT	
FC10.0	10'-0"	2'-0"	(7) #5 EW AT BOT	

SPREAD FOOTING SCHEDULE				
TYPE	SIZE	DEPTH	REINFORCEMENT	REMARKS
FS3.0	2'-0"	2'-0"	(4) #5 EW AT BOT	
FS5.0	2'-0"	2'-0"	(6) #5 EW AT BOT	
FS6.0	2'-0"	2'-0"	(7) #5 EW AT BOT	

LEGEND

- (E) ELEMENTS SHOWN FADED - LINETYPE AND PATTERN/HATCHING AS NOTED FOR NEW CONSTRUCTION
- STRUCTURAL STUD WALL
- STRUCTURAL MASONRY WALL
- NON-STRUCTURAL WALL, SAD
- CONCRETE CURB OR PAD
- DEPRESSED SLAB AREA
- SAD FOR EXTENTS
- SLAB STEP SYMBOL
- ELEVATION RELATIVE TO TOC
- CONC SLAB / STEEL DECK TYPE AND SPAN DIRECTION
- DIAGONAL BRACE ABOVE
- DIAGONAL BRACE BELOW
- C.O. SIZE
- COLUMN WITH CALLOUT
- CONTINUOUS FOOTING TAG
- SPREAD FOOTING TAG
- FOOTING
- STEPPED FOOTING

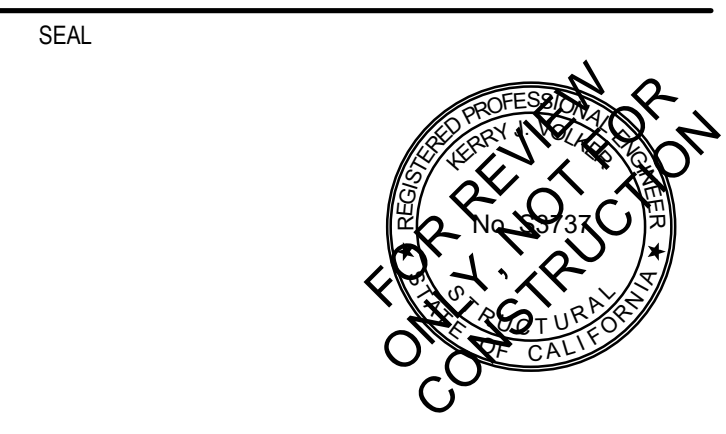
KEY PLAN



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TITLE
**BLDG B - PLAN -
FOUNDATION - AREA C**

SHEET
B.S-111C

0 1/4" = 1'

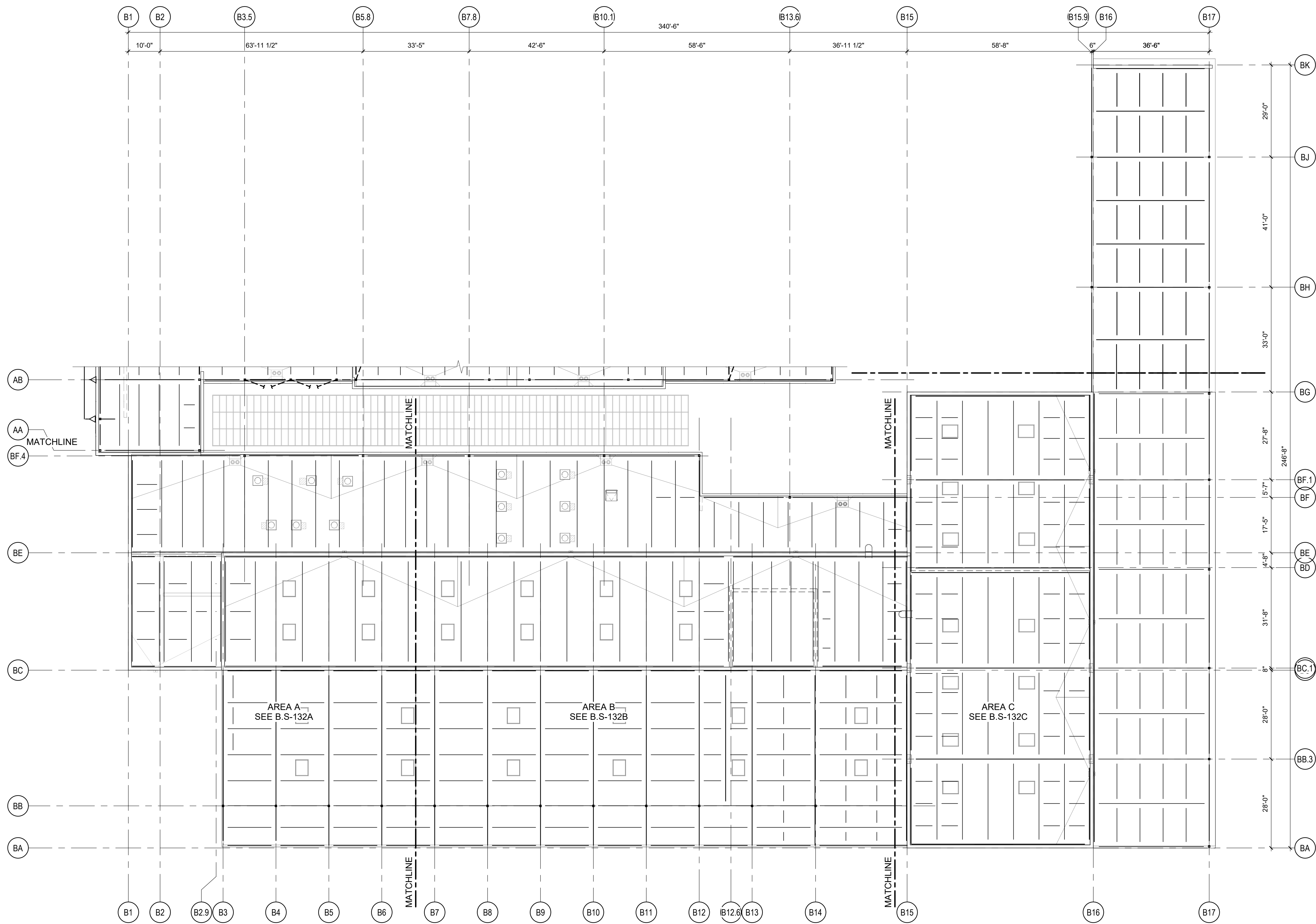
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C

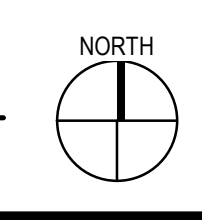
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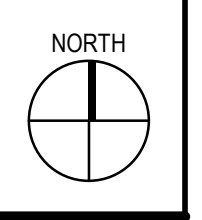
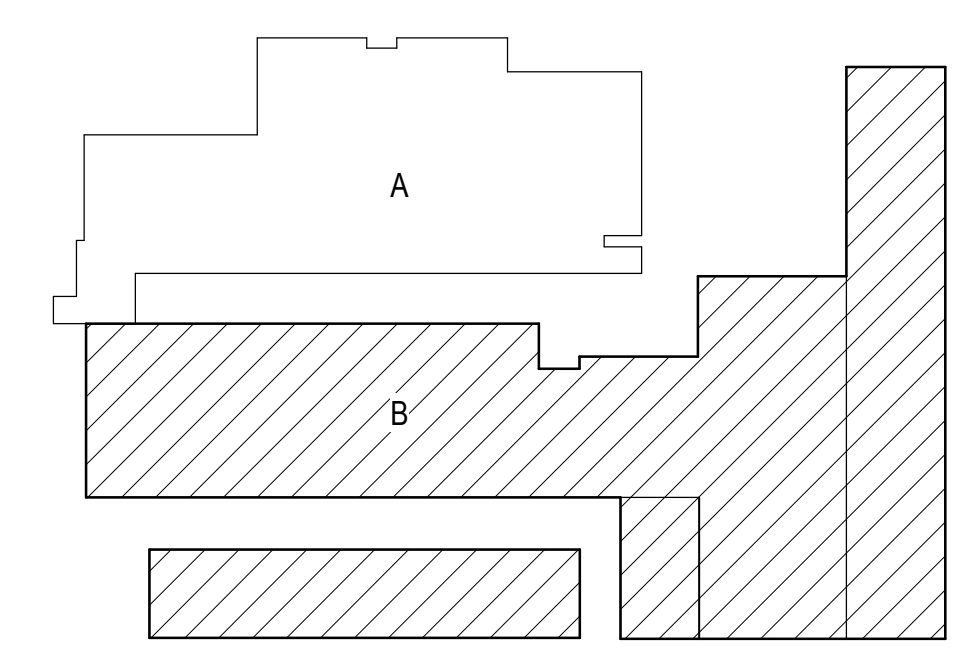
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1 BLDG B - PLAN - ROOF FRAMING - OVERALL
SCALE 1/16" = 1'-0"



KEY PLAN



TITLE
BLDG B - PLAN - ROOF FRAMING - OVERALL

SHEET
B.S-132

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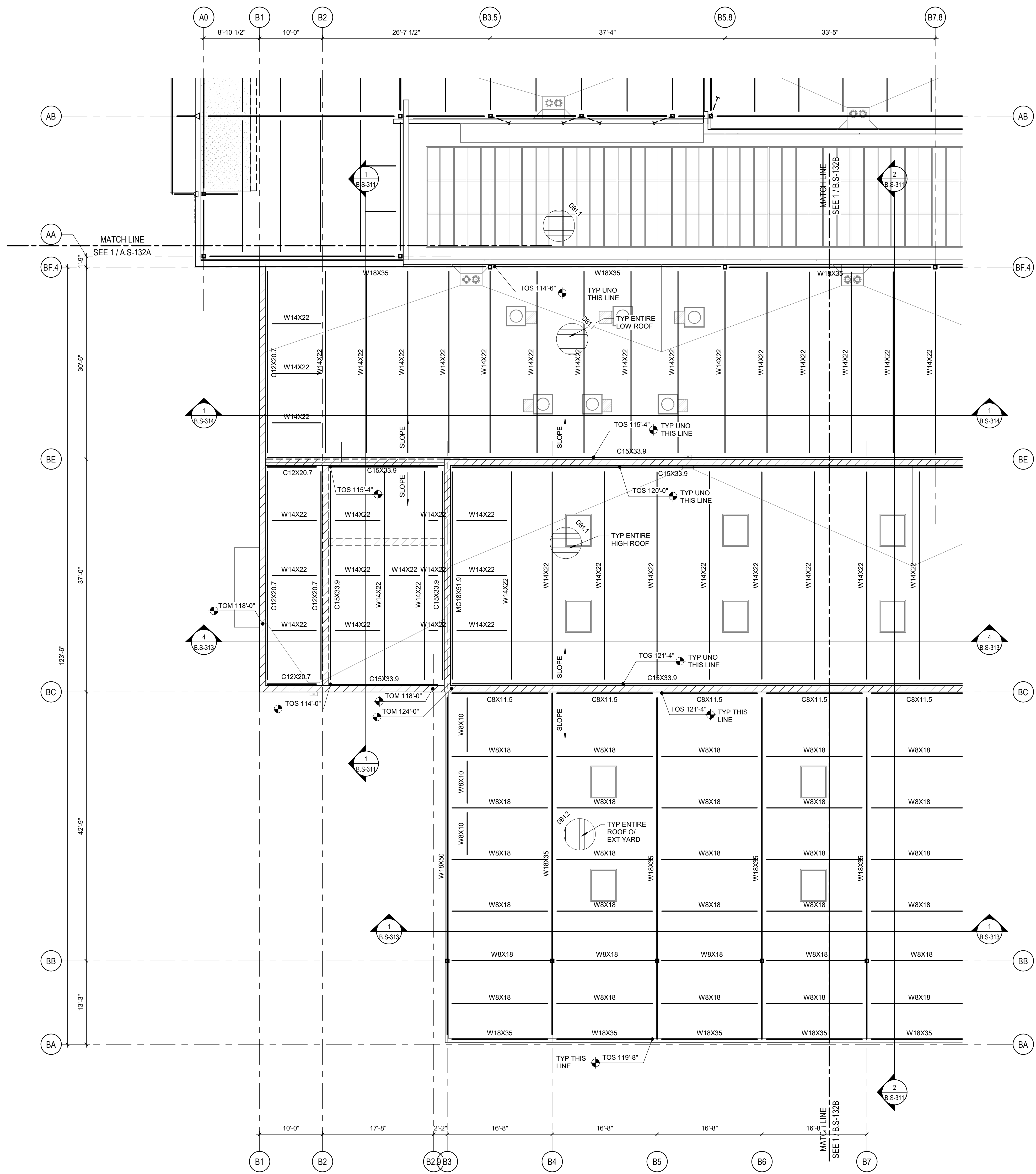
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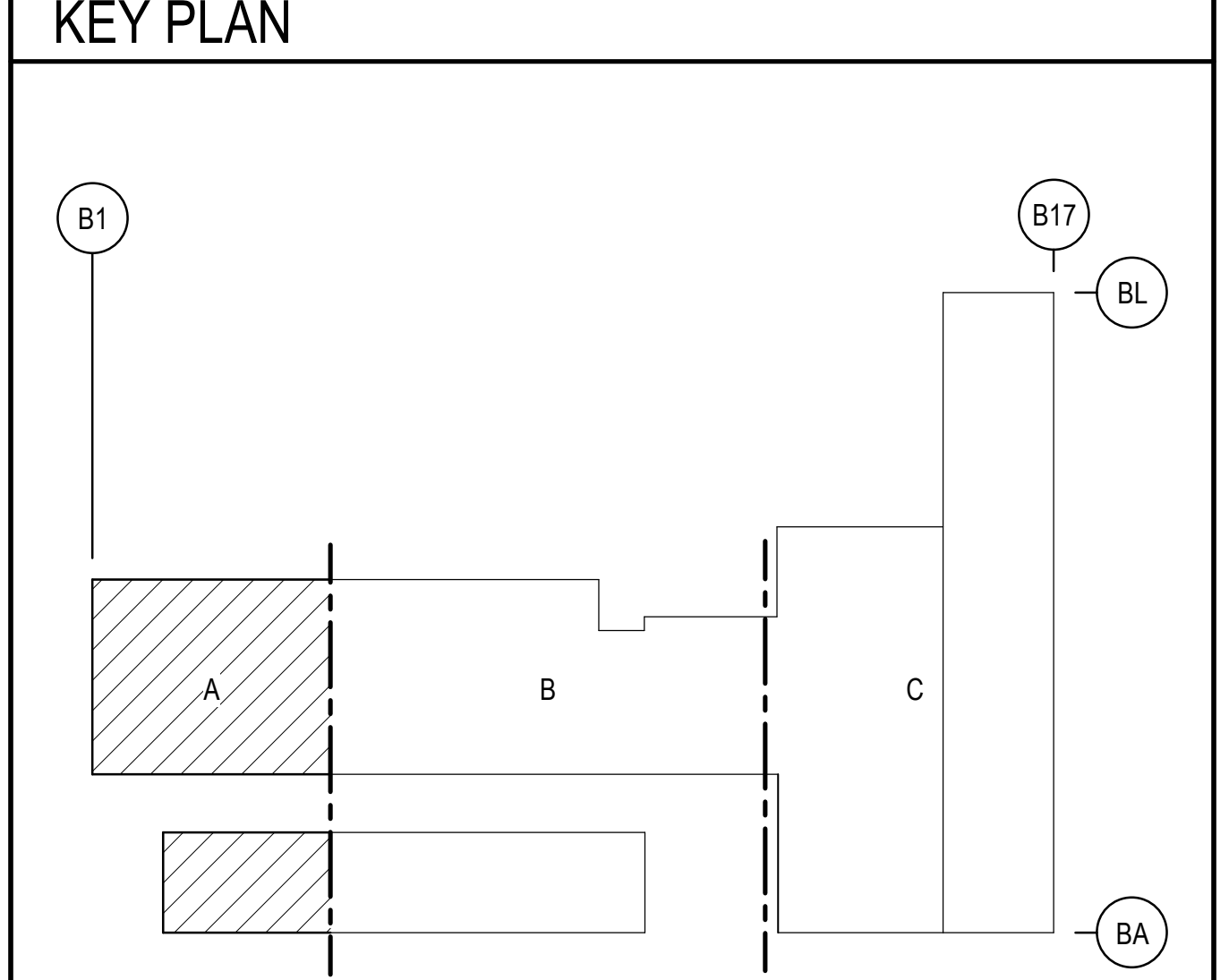
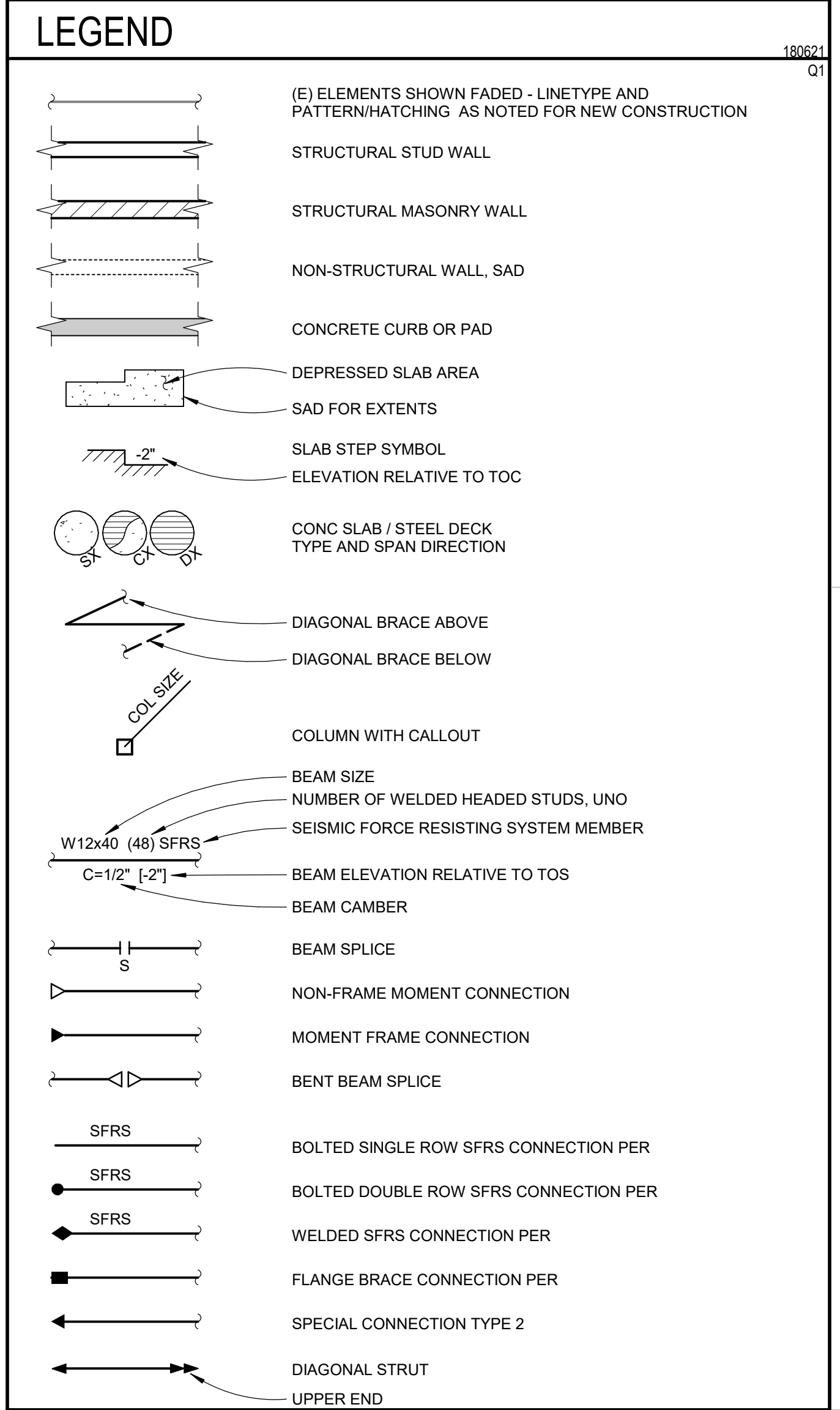
1 BLDG B - PLAN - ROOF FRAMING - AREA A
 SCALE 1/8" = 1'-0"

NOTES
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SCHEDULES

DECK SCHEDULE	
TYPE	DESCRIPTION
DB1.1	1 1/2" X 18 GA TYPE "B" STEEL DECK
DB1.2	1 1/2" X 16 GA TYPE "B" STEEL DECK W/ G90 COATING
SG5	5" CONG SLAB O/ SUB-BASE W/ #4 @ 16" OC
SG6	6" CONG SLAB O/ SUB-BASE W/ #5 @ 16" OC
SG12	12" CONG SLAB O/ SUB-BASE W/ (2) LAYERS OF #5 @ 16" OC

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3000 CAMPUS HILL DRIVE
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 DISTRICT
 7600 DUBLIN BLVD
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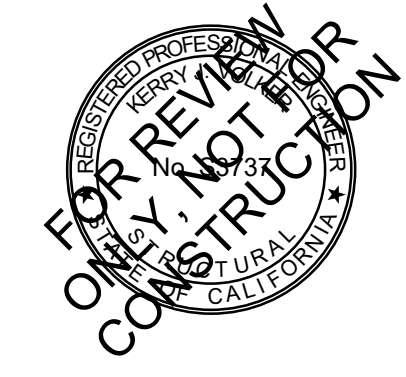
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MARK	DATE	DESCRIPTION
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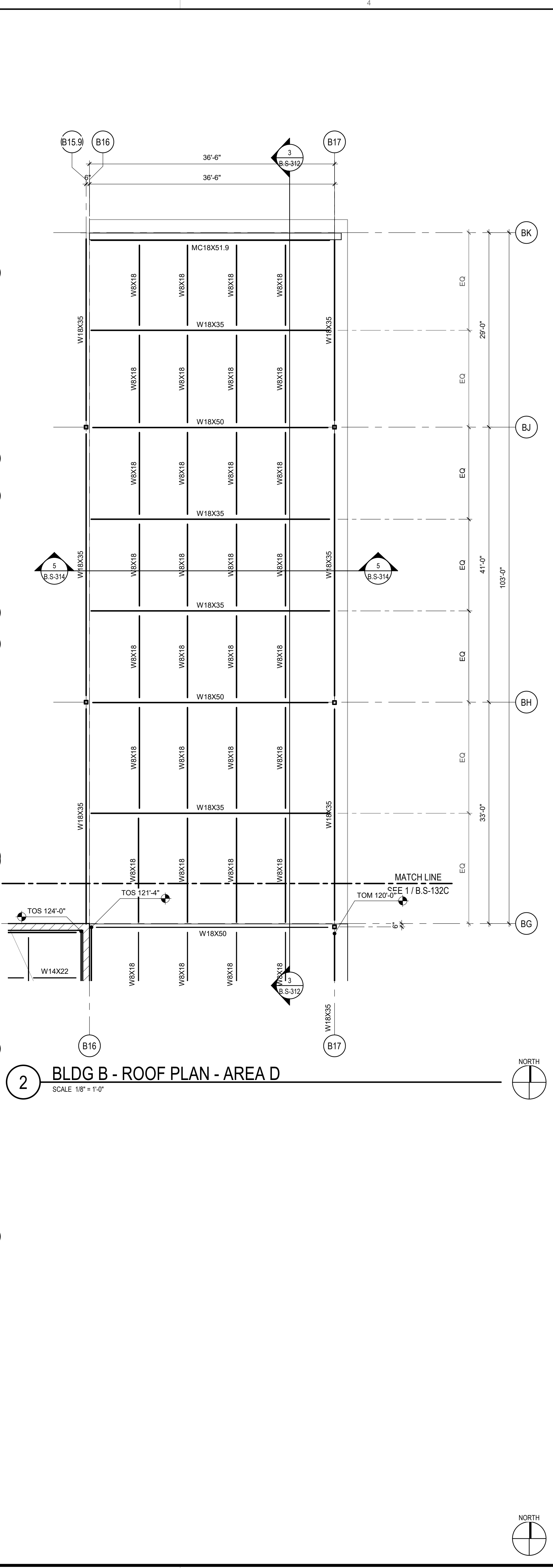
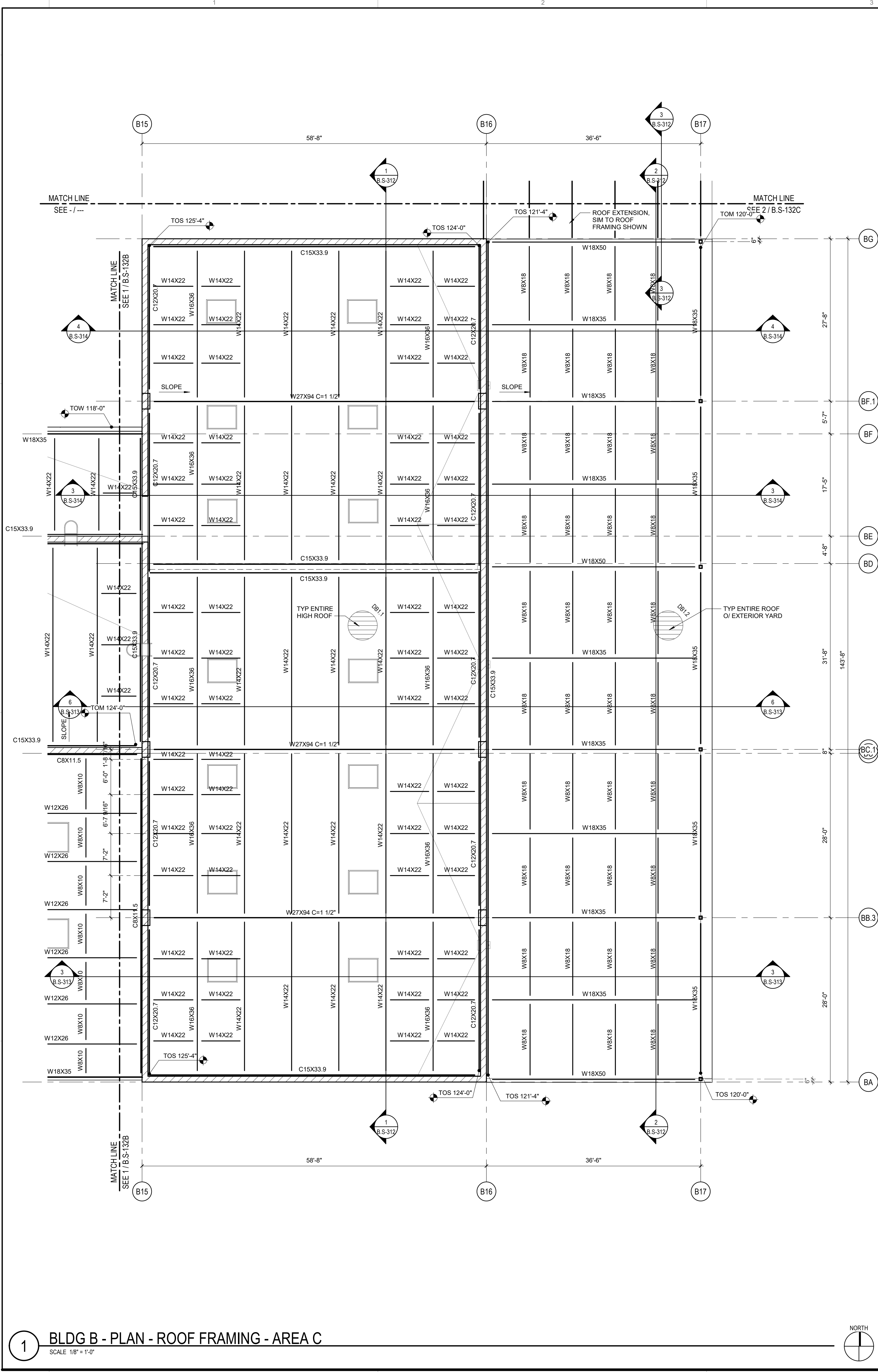
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TITLE
**BLDG B - PLAN - ROOF
 FRAMING - AREA A**

SHEET
B.S-132A



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NOTES

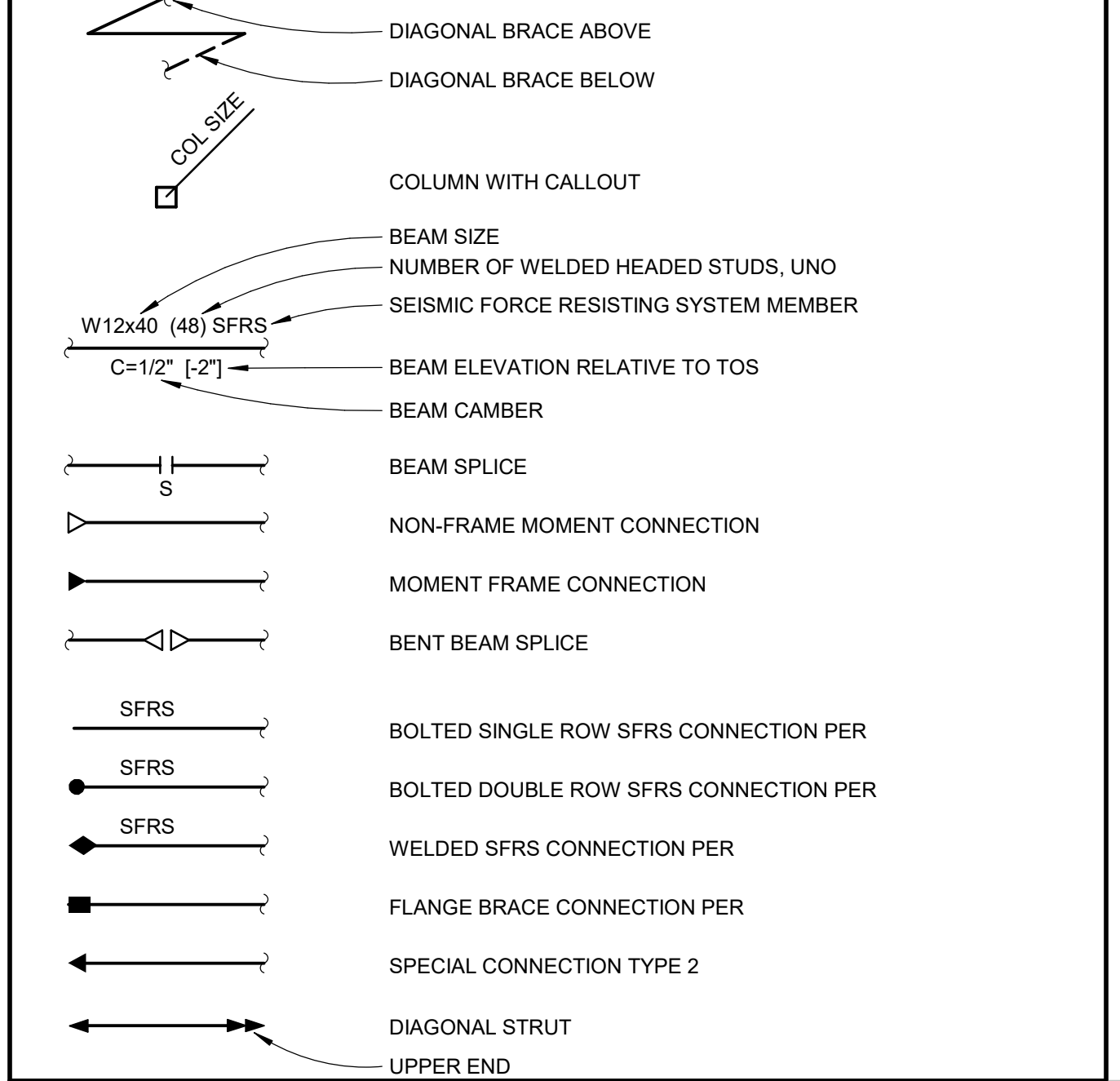
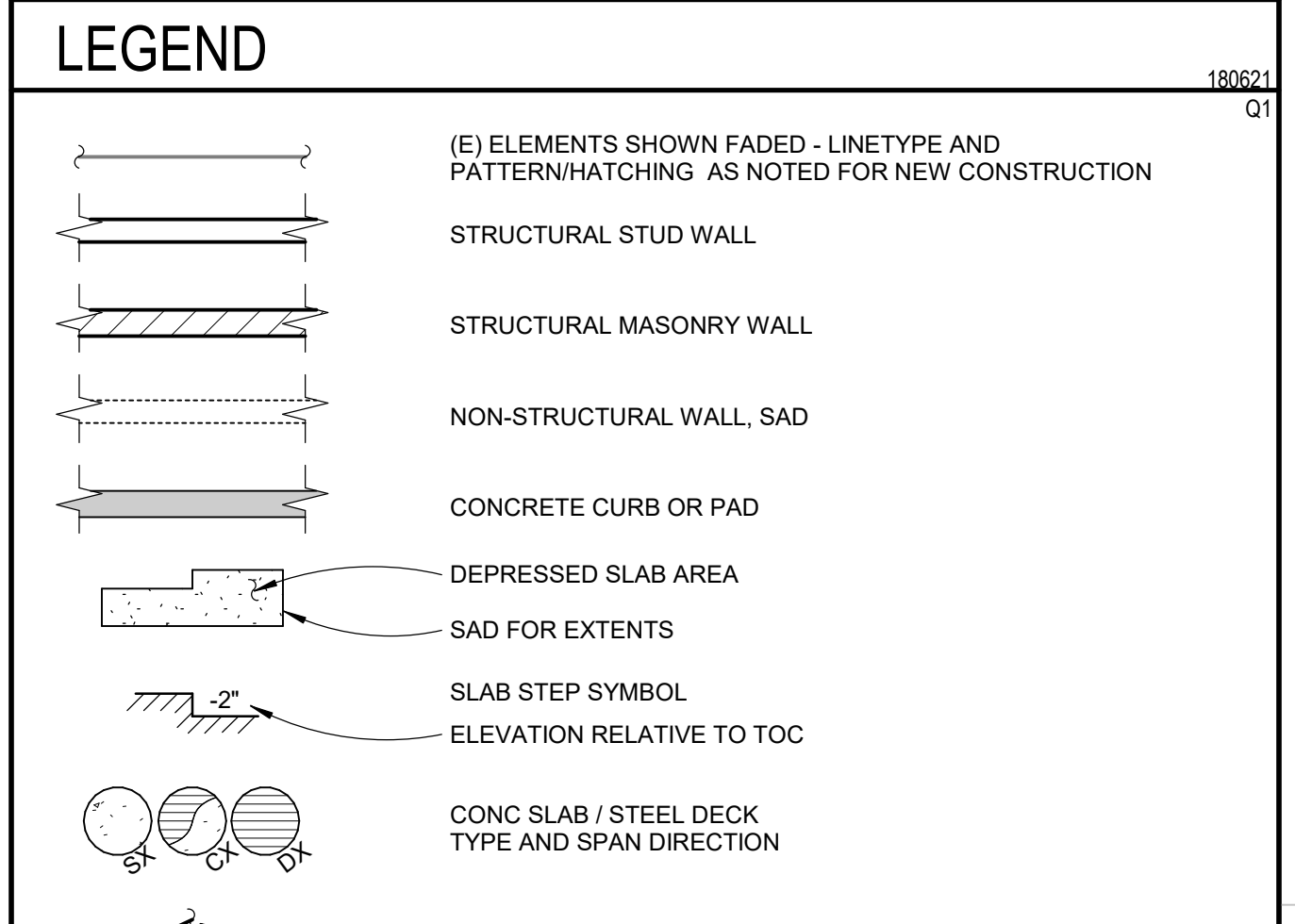
- SEE S-000 SERIES SHEETS FOR GENERAL NOTES & S-500 SERIES SHEETS FOR TYPICAL DETAILS.
- SEE S-200 SERIES SHEETS FOR WALL & FRAMING ELEVATIONS.
- DIMENSIONS ARE TO FOS OR CENTERLINE OF COLUMNS/POSTS, UNO. SEE SECTIONS & DETAILS FOR FOC LOCATIONS RELATIVE TO FOS.
- SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS. SEE TYPICAL DETAILS FOR FRAMING AT OPENINGS.
- SEE ARCH & OTHER CONSULTANT DWGS FOR ROOF PENETRATIONS NOT SHOWN. PROVIDE FRAMING AROUND OPENINGS PER TYPICAL DETAILS. SAWCUT OR CORE DRILL CLEAN HOLES WITH NO OVERCUTTING. CONFORM WITH TYPICAL DETAILS.
- SEE ARCH DWGS FOR DIMENSIONS OF ROOF OVERHANGS, UNO.
- EXTERIOR WALLS ARE 6005162-54 STEEL STUDS @ 16" OC OR 12" CMU GROUTED SOLID W/ STD REINF. TYP UNO.
- BEAMS ARE EQUALLY SPACED BETWEEN COLUMNS, UNO.
- ROOF DECK IS 1 1/2" X 16 GA TYPE "B" STEEL DECK AND SHALL BE CONTINUOUS OVER THREE SPANS MINIMUM.

SCHEDULES

DECK SCHEDULE	
TYPE	DESCRIPTION
DB1.1	1 1/2" X 18 GA TYPE "B" STEEL DECK
DB1.2	1 1/2" X 16 GA TYPE "B" STEEL DECK W/ G90 COATING
SG5	5" CONC SLAB O/ SUB-BASE W/ #4 @ 16" OC
SG6	6" CONC SLAB O/ SUB-BASE W/ #5 @ 16" OC
SG12	12" CONC SLAB O/ SUB-BASE W/ (2) LAYERS OF #5 @ 16" OC

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ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT

3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

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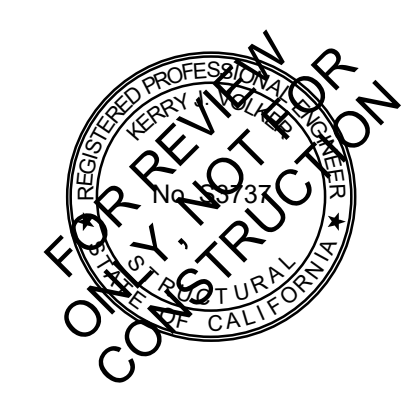
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT

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CLIENT PROJECT NO. _____
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TITLE
BLDG B - PLAN - ROOF
FRAMING - AREA C

SHEET
B.S-132C



0. 1/4" = 1'

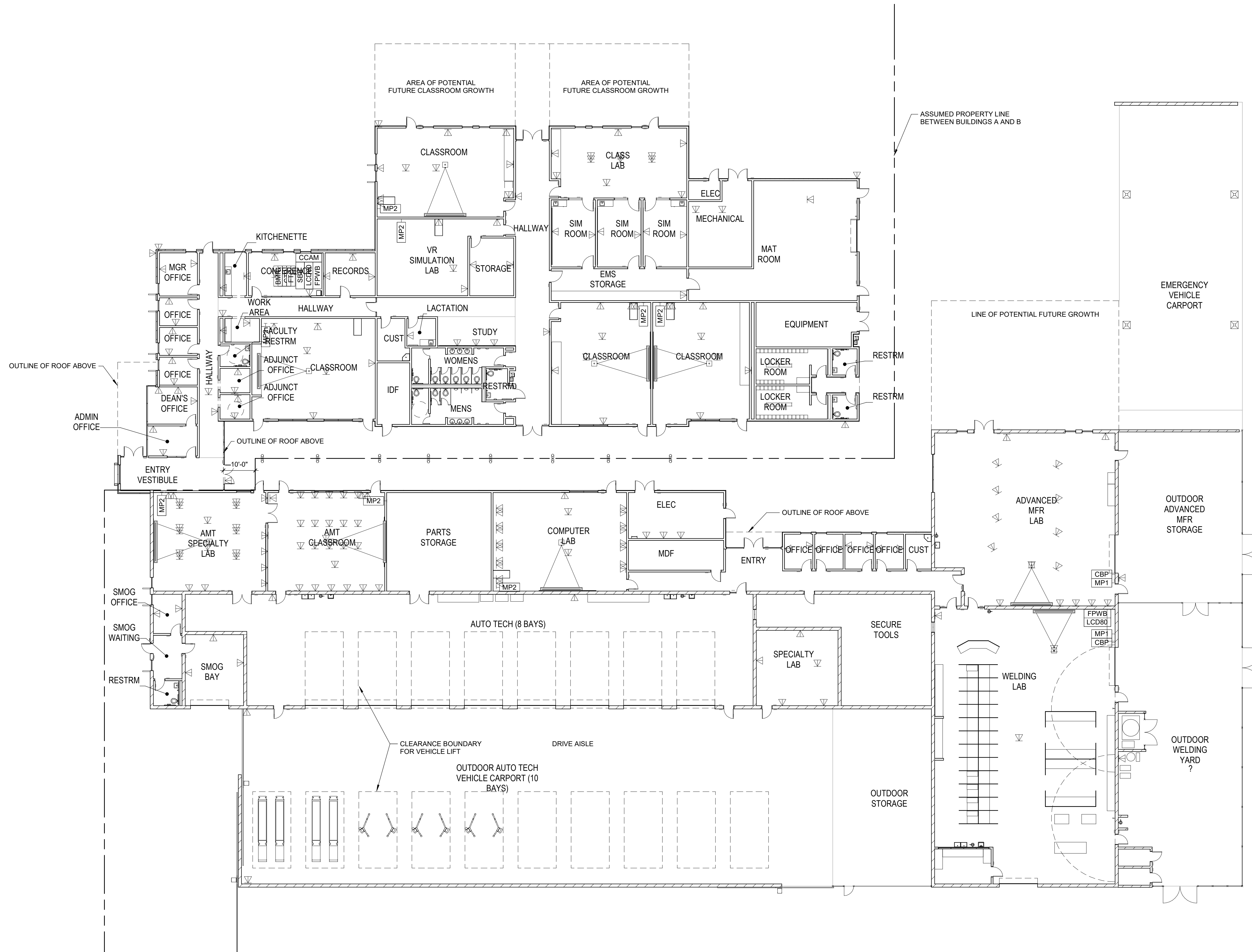
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C

B

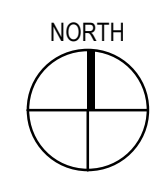
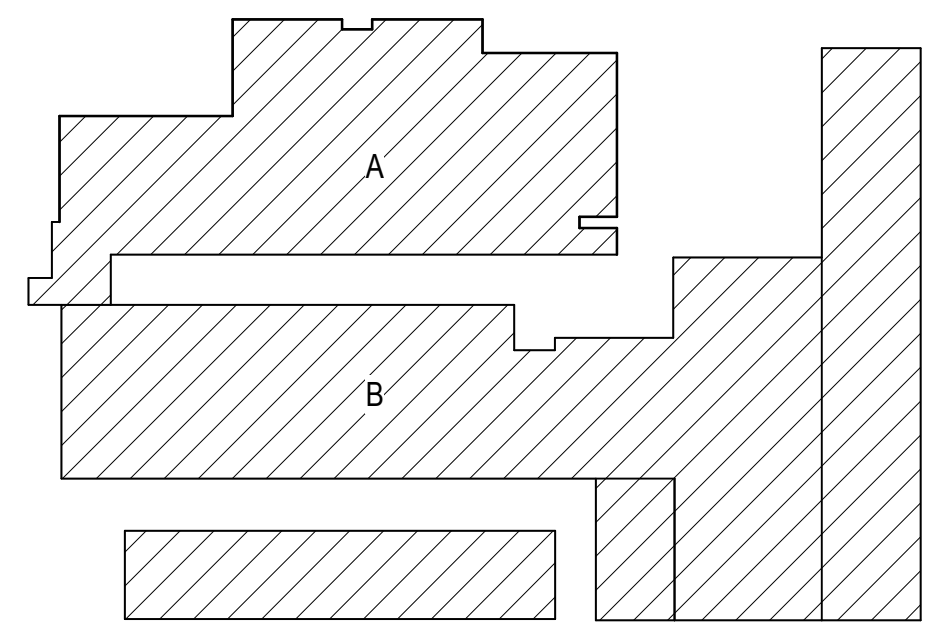
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1 BUILDING A AND B OVERALL FLOOR PLAN
SCALE: 1/16" = 1'-0"

KEY PLAN



FILE NO. ?XX-XXXX?
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
?XX-XXX?
AC _____ FLS _____ SS _____
DATE _____

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PROJECT
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TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551
CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING A & B
OVERALL PLAN**

SHEET
A-100

0 1/4" 1/2" 1"

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C

B

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FILE NO. ?XX-XXXX?

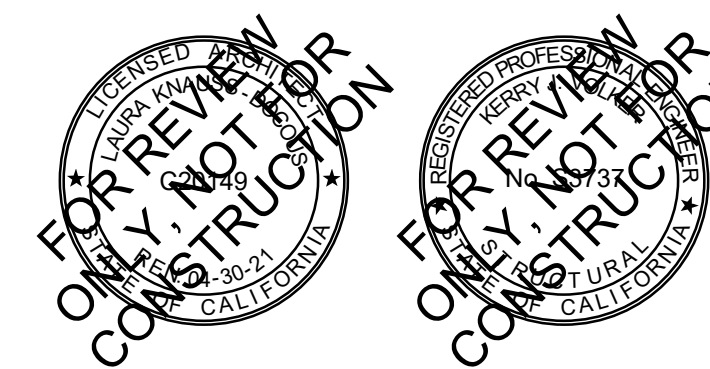
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DATE: _____

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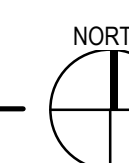
CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

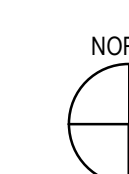
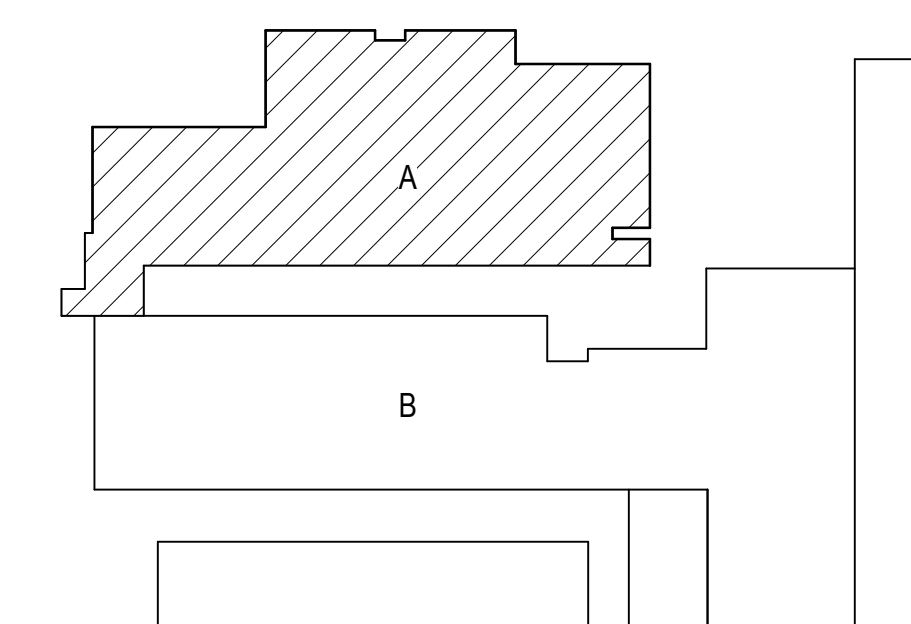
MANAGEMENT
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1 BUILDING A - OVERALL FLOOR PLAN
SCALE 1/16" = 1'-0"



KEY PLAN



TITLE
BUILDING A - OVERALL
FLOOR PLAN

SHEET
A.A-111

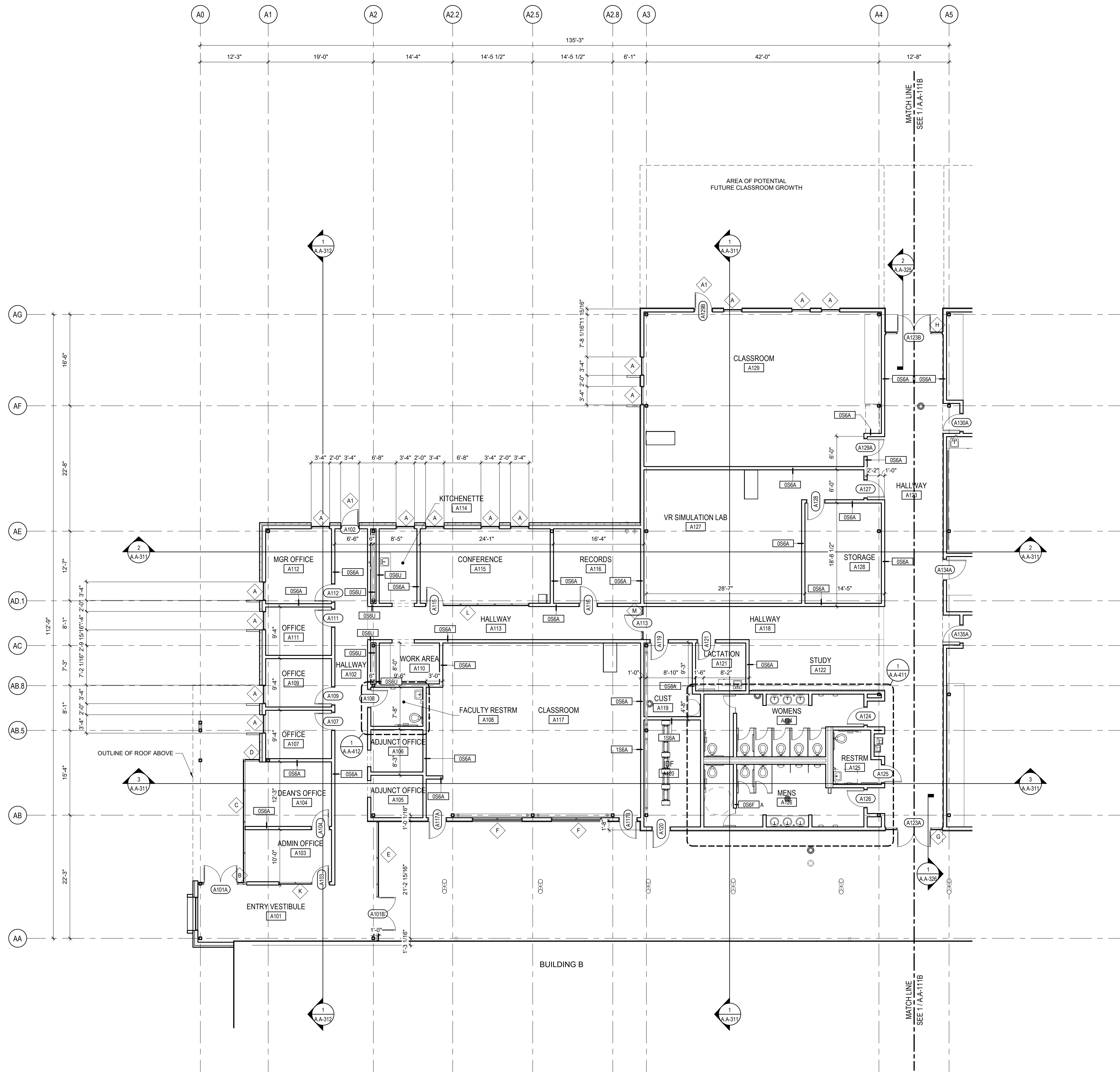
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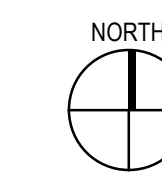
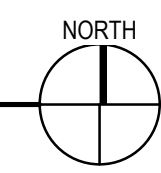
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1 BUILDING A - PARTIAL FLOOR PLAN - AREA A
SCALE 1/8" = 1'-0"



GENERAL NOTES

1. ARCHITECTURAL DIMENSIONS ARE TO FACE OF STUDS OR CENTERLINE OF COLUMN GRIDS UNLESS OTHERWISE NOTED. EXCEPTION: CLEAR DIMENSIONS AT DOORS AND 5'-0" DIA CLEARANCE CIRCLES ARE TO FACE OF FINISH, TYP
2. LOCATE DOOR JAMBS 4" AWAY FROM ADJACENT WALL UNLESS OTHERWISE DIMENSIONED.
3. KEY NOTED WALL TYPES SHALL EXTEND FROM CORNER TO CORNER, FULL LENGTH OF WALL UNLESS INDICATED OTHERWISE.
4. FOR SYMBOL LEGEND SEE SHEET G-001.
5. IF SLOPE IS PROVIDED IN ROOMS WITH FLOOR DRAINS (FD), SLOPE FLOOR MAX 2% TO DRAIN.
6. SEE SHEETS A-545 AND A-546 FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT.
7. STUDS AT ELECTRICAL ROOMS SHALL BE 16GA.
8. INSTALL THERMAL BATT INSULATION IN ALL EXTERIOR WALLS. ALL INTERIOR WALLS TO RECEIVE FULL DEPTH ACOUSTICAL BATT INSULATION, UON.
9. SITE PLAN INFORMATION SHOWN ON FLOOR PLANS IS FOR REFERENCE PURPOSE ONLY. REFER TO CIVIL AND/OR LANDSCAPE DRAWINGS FOR SITE WORK.
10. FOR SEMI RECESSED FIRE EXTINGUISHER CABINET AT RATED WALL AND FOR NON RATED WALL SEE DETAIL.

FLOOR PLAN LEGEND

NOTE: SEE SHEET G-002 FOR ADDITIONAL SYMBOLS LEGEND AND ABBREVIATIONS

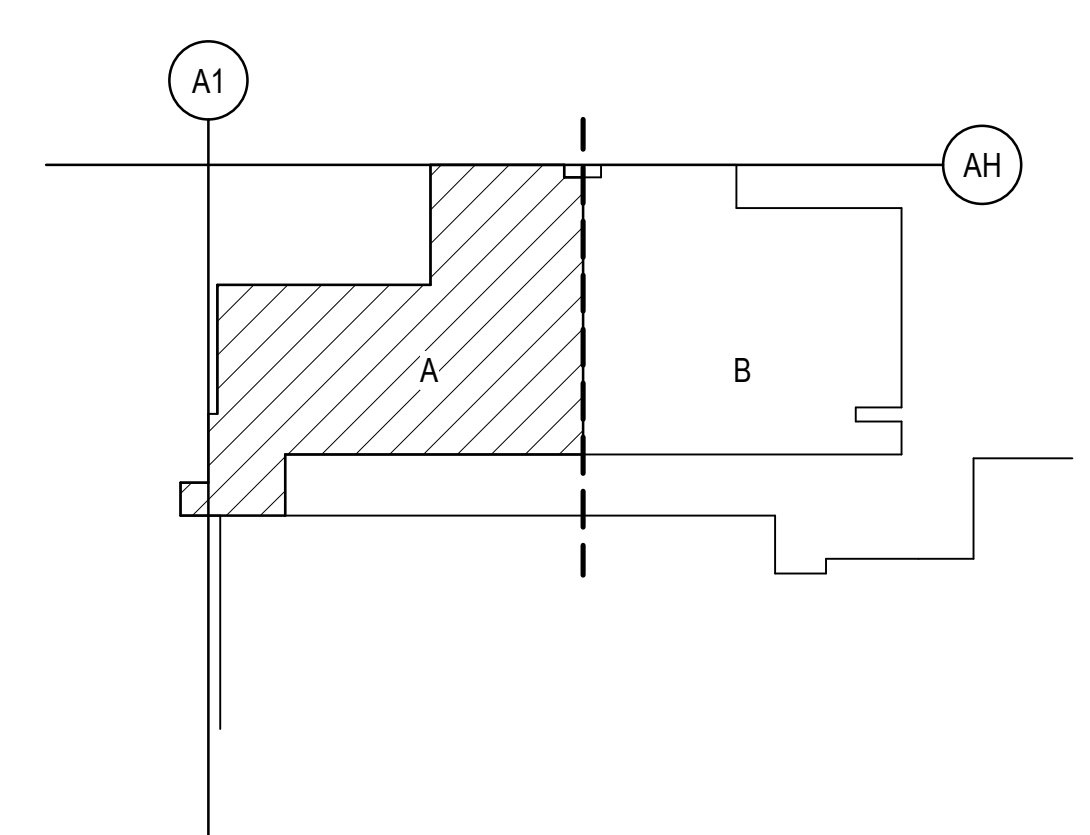
- | | | |
|--|--|---|
| | ROOM NAME | ROOM IDENTIFIER WITH ROOM NAME & NUMBER |
| | DOOR | DOOR, SEE SCHEDULE |
| | DOOR OPENING IDENTIFIER | |
| | WINDOW OR LOUVER | WINDOW OR LOUVER IDENTIFIER |
| | FIRE EXTINGUISHER CABINET | SEE DETAIL |
| | AUTOMATIC EXTERNAL DEFIBRILLATOR | |
| | WALL MOUNTED DOOR ACTUATOR | |
| | DOOR ACTUATOR MOUNTED TO PEDESTAL AND CARD READER WHERE OCCURS | |
| | INSTRUCTOR'S DESK | SEE SPECS |
| | 30"x48" CLR ACCESSIBLE SPACE AT ALL INSTRUCTOR'S DESK | |
| | NEAREST OBSTRUCTION | |
| | 60" CLEAR ACCESSIBLE TURNING SPACE | |
| | PARTITION TYPE INDICATOR, SEE SHEET A-541 FOR ADDITIONAL INFORMATION | |

WALL LEGEND

NOTE: SEE SHEET A-531 FOR WALL TYPE DESCRIPTIONS, UL LISTINGS, AND ADDITIONAL WALL TYPES NOT LISTED ON LEGEND

- FULL HEIGHT MTL STUD PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE
- FULL HEIGHT 1-HOUR RATED MTL STUD PARTITION WITH ACOUSTICAL INSULATION AND RATED OPENINGS PER DOOR SCHEDULE, SEE WALL TYPE SCHEDULE
- FULL HEIGHT SMOKE RESISTANT MTL STUD PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE
- FULL HEIGHT MTL STUD CHASE PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE

KEY PLAN



FILE NO. ?XX-XXXX?

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
?XX-XXX?
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DATE _____

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PROJECT
**PUBLIC SAFETY COMPLEX /
ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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CLIENT PROJECT NO. _____
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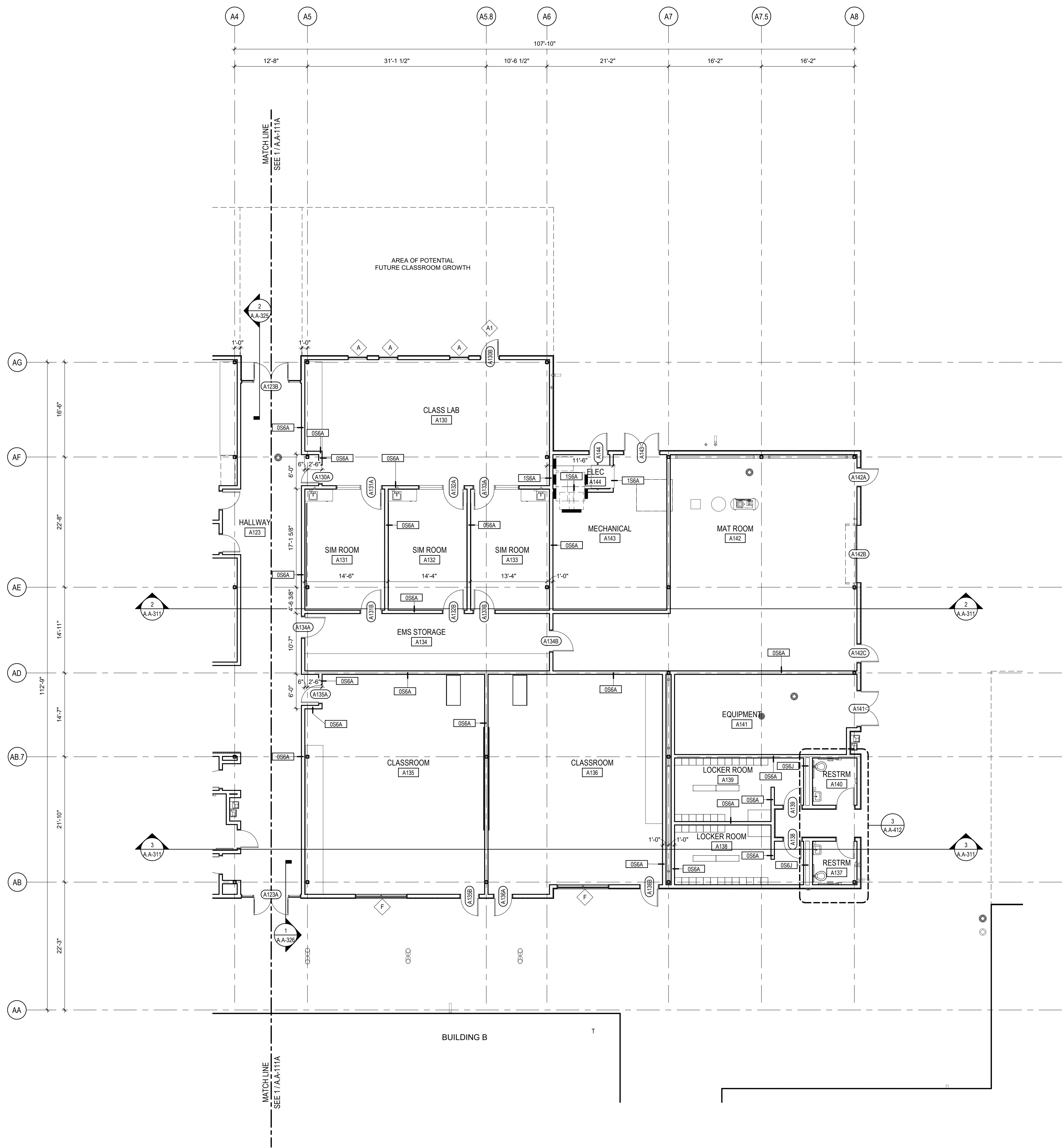
TITLE
**BUILDING A - PARTIAL
FLOOR PLAN - AREA A**

SHEET
A.A-111A

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1 BUILDING A - PARTIAL FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. ARCHITECTURAL DIMENSIONS ARE TO FACE OF STUDS OR CENTERLINE OF COLUMN GRIDS UNLESS OTHERWISE NOTED. EXCEPTION: CLEAR DIMENSIONS AT DOORS AND 5'-0" DIA CLEARANCE CIRCLES ARE TO FACE OF FINISH, TYP
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6. SEE SHEETS A-545 AND A-546 FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT.
7. STUDS AT ELECTRICAL ROOMS SHALL BE 16GA.
8. INSTALL THERMAL BATT INSULATION IN ALL EXTERIOR WALLS. ALL INTERIOR WALLS TO RECEIVE FULL DEPTH ACOUSTICAL BATT INSULATION.
9. SITE PLAN INFORMATION SHOWN ON FLOOR PLANS IS FOR REFERENCE PURPOSE ONLY. REFER TO CIVIL AND/OR LANDSCAPE DRAWINGS FOR SITE WORK.
10. FOR SEMI RECESSED FIRE EXTINGUISHER CABINET AT RATED WALL AND FOR NON RATED WALL SEE DETAIL.

FLOOR PLAN LEGEND

NOTE: SEE SHEET G-002 FOR ADDITIONAL SYMBOLS LEGEND AND ABBREVIATIONS

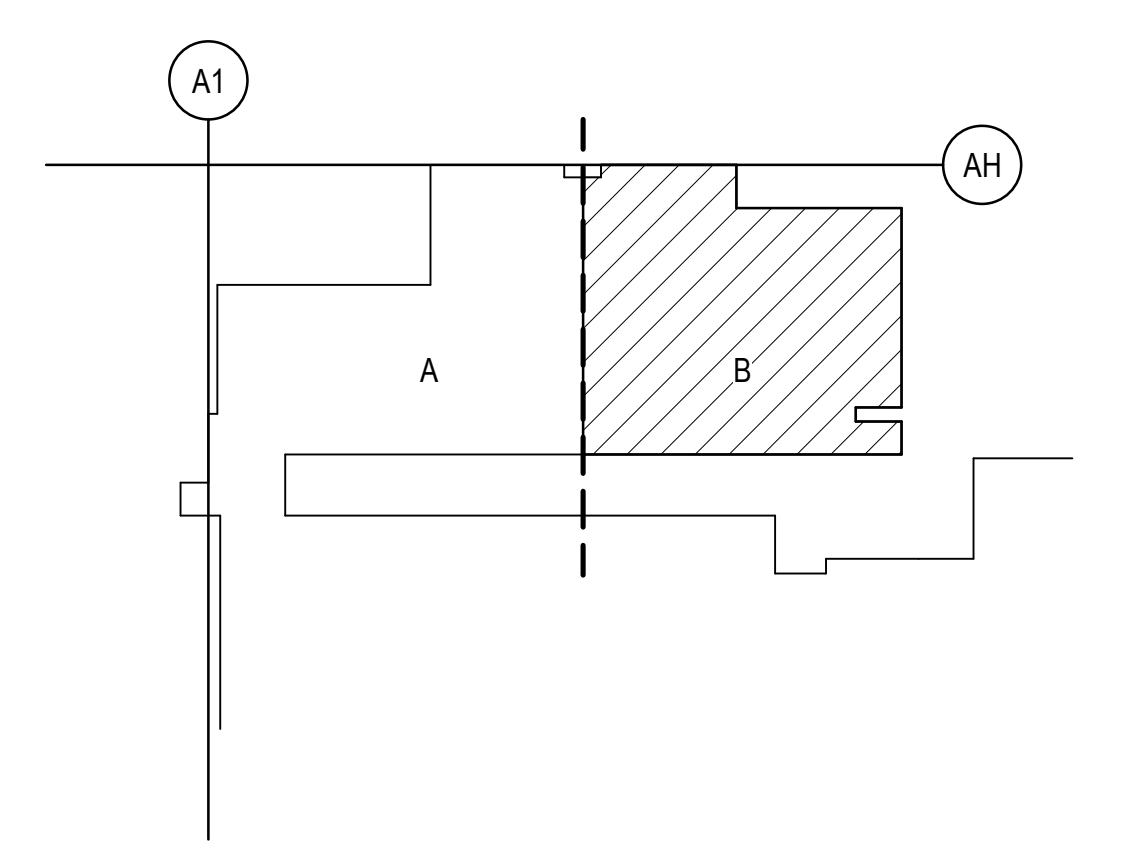
	ROOM NAME	ROOM IDENTIFIER WITH ROOM NAME & NUMBER
	DOOR	DOOR, SEE SCHEDULE
	DOOR OPENING IDENTIFIER	
	WINDOW OR LOUVER	WINDOW OR LOUVER IDENTIFIER
	FIRE EXTINGUISHER CABINET	SEE DETAIL
	AUTOMATIC EXTERNAL DEFIBRILLATOR	
	WALL MOUNTED DOOR ACTUATOR	
	DOOR ACTUATOR MOUNTED TO PEDESTAL AND CARD READER WHERE OCCURS	
	INSTRUCTOR'S DESK	SEE SPECS
	30"x48" CLR ACCESSIBLE SPACE AT ALL INSTRUCTOR'S DESK	
	NEAREST OBSTRUCTION	
	60" CLEAR ACCESSIBLE TURNING SPACE	
	PARTITION TYPE INDICATOR	SEE SHEET A-541 FOR ADDITIONAL INFORMATION

WALL LEGEND

NOTE: SEE SHEET A-531 FOR WALL TYPE DESCRIPTIONS, UL LISTINGS, AND ADDITIONAL WALL TYPES NOT LISTED ON LEGEND

	FULL HEIGHT MTL STUD PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE
	FULL HEIGHT 1-HOUR RATED MTL STUD PARTITION WITH ACOUSTICAL INSULATION AND RATED OPENINGS PER DOOR SCHEDULE, SEE WALL TYPE SCHEDULE
	FULL HEIGHT SMOKE RESISTANT MTL STUD PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE
	FULL HEIGHT MTL STUD CHASE PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE

KEY PLAN



FILE NO. ?XX-XXXX?
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DIV. OF THE STATE ARCHITECT
?XX-XXX?
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PROJECT
PUBLIC SAFETY COMPLEX / ADVANCED MANUFACTURING AND TRANSPORTATION PROJECT

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT

LIONAKIS PROJECT NO.:	019051
CLIENT PROJECT NO.:	
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TITLE
BUILDING A - PARTIAL FLOOR PLAN - AREA B

SHEET
A.A-111B

0 1/4" = 1'

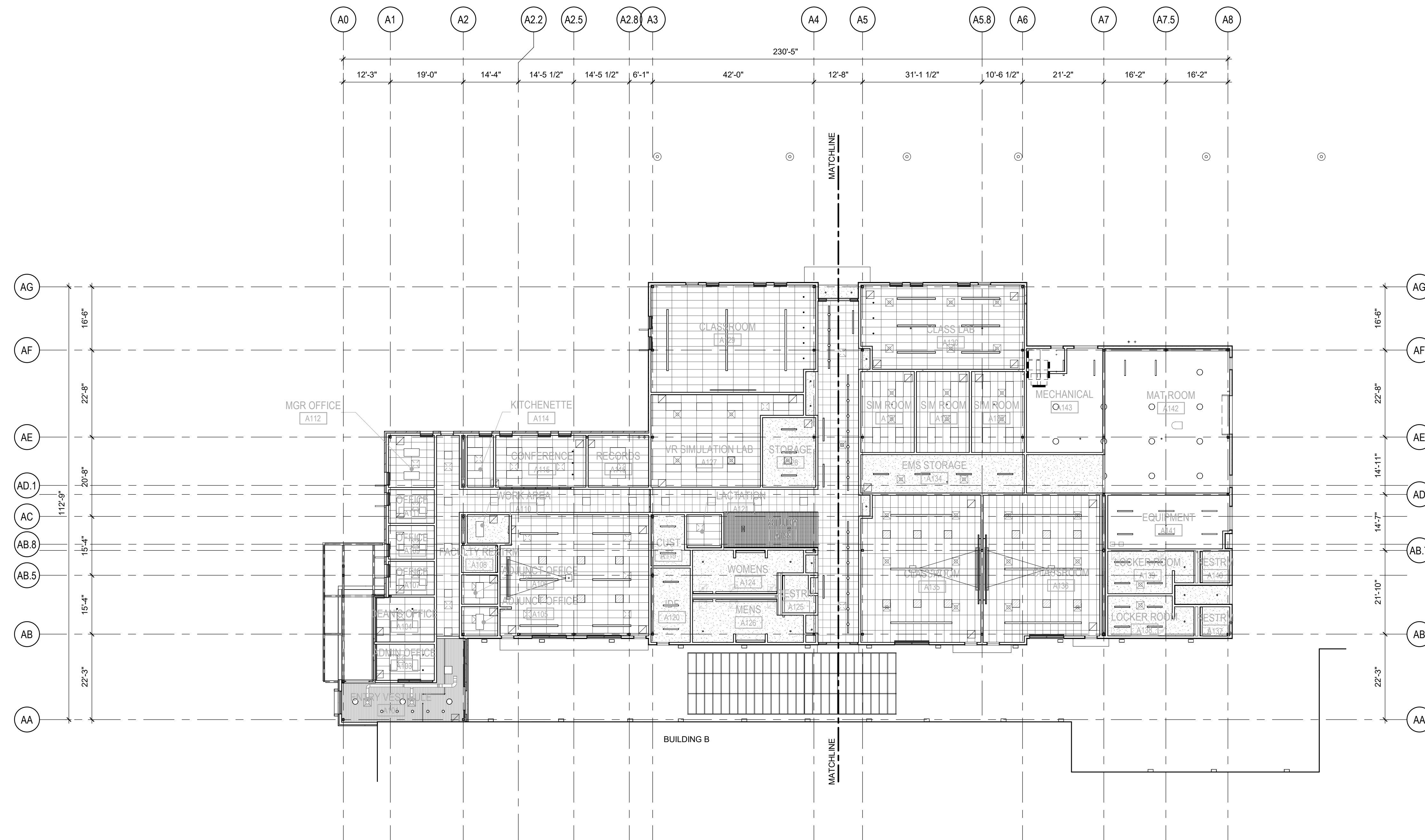
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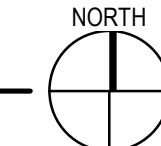
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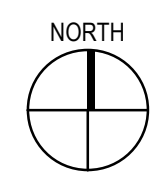
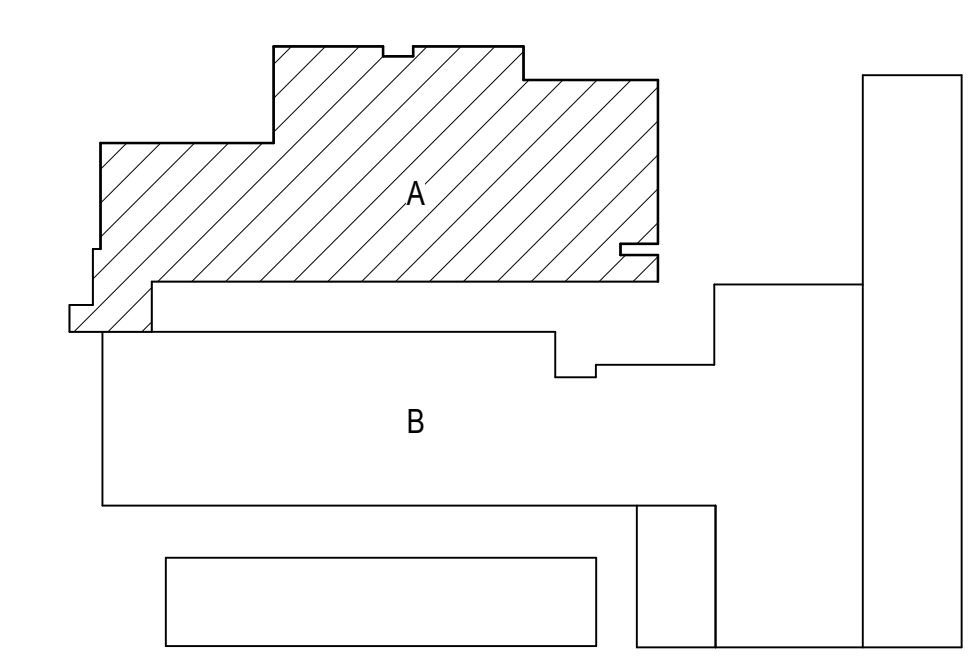
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1 BUILDING A - OVERALL CEILING PLAN
SCALE 1/16" = 1'-0"

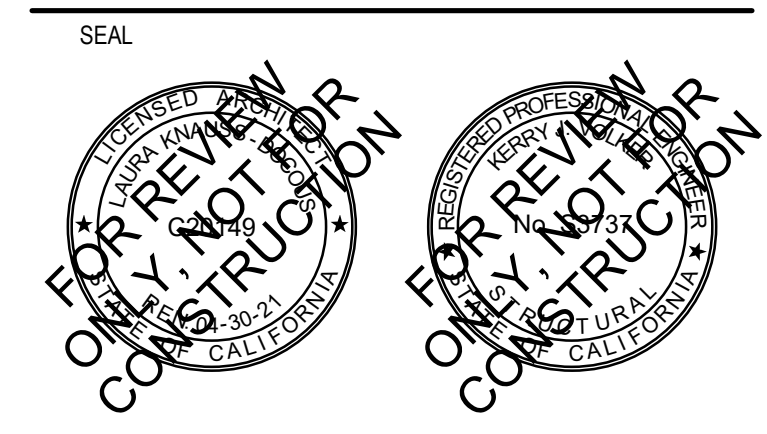


KEY PLAN



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ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT**
LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94561
CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

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MANAGEMENT
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TITLE
**BUILDING A - OVERALL
CEILING PLAN**

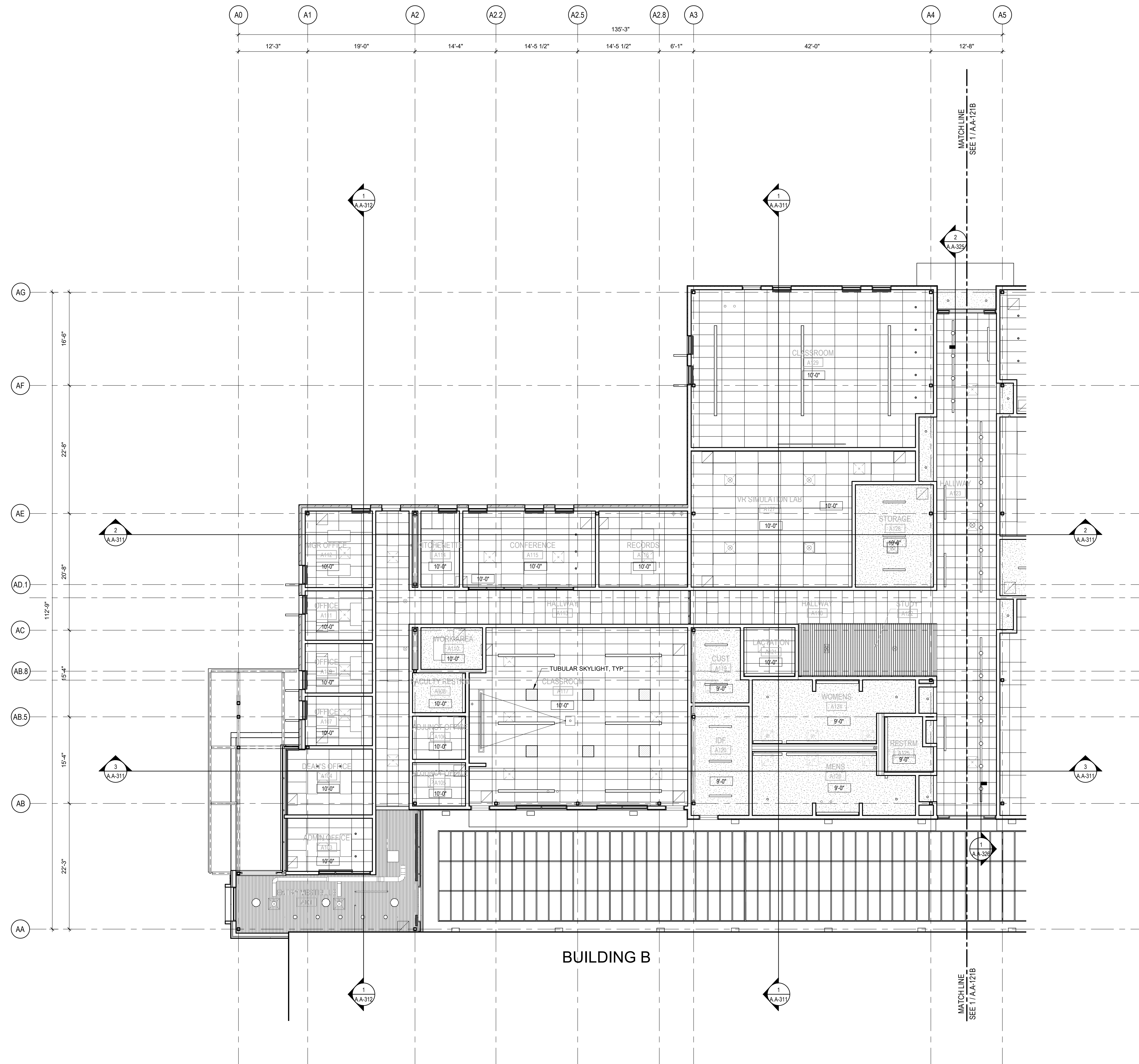
SHEET
A.A-121

0 1/4" = 1'

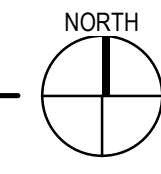
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1 BUILDING A - PARTIAL CEILING PLAN - AREA A
SCALE: 1/8" = 1'-0"



GENERAL NOTES

1. SEE FINISH SCHEDULE FOR CEILING FINISHES
2. SEE ELECTRICAL DWGS FOR LIGHT FIXTURES
3. ALL DIMENSIONS TO CENTERLINE OF LIGHT FIXTURES
4. CENTER FIXTURES BOTH WAYS IN DRYWALL SOFFITS UON

CEILING PLAN LEGEND

10'-0" CEILING HEIGHT, AFF

GYPSON BOARD CEILING SYSTEM, FOR TYPICAL FRAMING DETAILS
SEE SHEETS A-535 AND A-536
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
MOISTURE RESISTANT GYPSON BOARD TO BE USED AT WET LOCATIONS, TYP

OPEN OPEN TO ABOVE, WHERE OCCURS. PAINT UNDERSIDE OF STRUCTURE

CL1: 2' x 4' SUSPENDED CEILING GRID
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR

CL2: 2' x 2' SUSPENDED CEILING GRID
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR

CL4: 1' x 8' W/ BACKER, 8 BLADES WITH 6" ACOUSTICAL BATT INSULATION ABOVE GYP CEILING
B.O.D. MFR: ARMSTRONG, WOODWORKS CHANNLELED PLANK
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR

LC-1: LINEAR METAL CEILING SYSTEM
BASIS OF DESIGN MFR: ENDURE WOODGRAIN 3 BOARD 900 WITH INTEGRATED SPACERS
COLOR: TBD

2x2 SQUARE SOLAR TUBE SYSTEM

CEILING ACCESS HATCH, SEE 19 OR 20/A-563

2x4 LIGHT FIXTURE, SEE ELECTRICAL DWGS

2x2 LIGHT FIXTURE, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 1, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 2, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 3, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 4, SEE ELECTRICAL DWGS

CEILING MOUNTED PROJECTOR, SEE ELECTRICAL AND TELECOM DWGS

WINDOW COVERING, SEE SHEET AG112

CEILING MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION

WALL MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION

ELECTRICAL POWER REEL

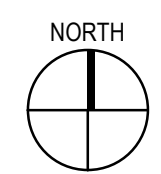
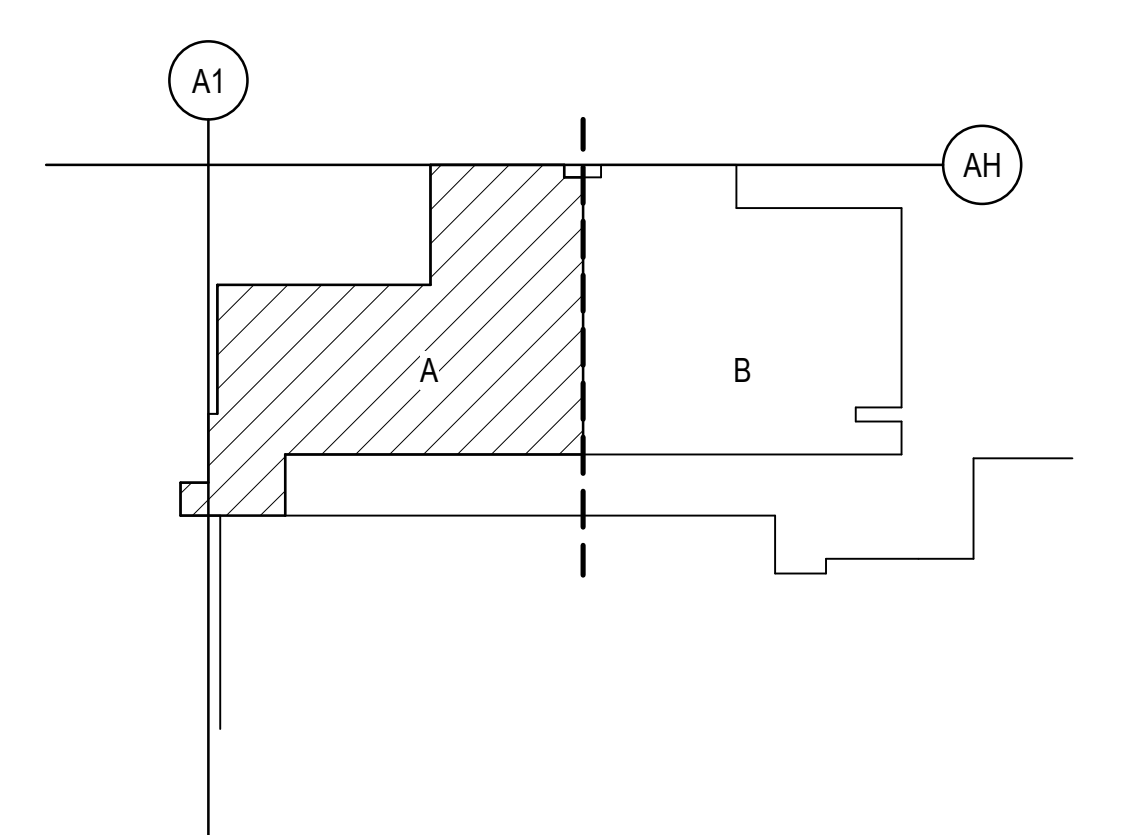
MECHANICAL SUPPLY DIFFUSER, SEE MECHANICAL DWGS

MECHANICAL EXHAUST REGISTER, SEE MECHANICAL DWGS

MECHANICAL RETURN REGISTER, SEE MECHANICAL DWGS

EXIT SIGNAGE

KEY PLAN



FILE NO. ?XX-XXXX?

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?XX-XXX?
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MARK	DATE	DESCRIPTION
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MANAGEMENT
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CLIENT PROJECT NO. _____
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TITLE
BUILDING A - PARTIAL
CEILING PLAN - AREA A

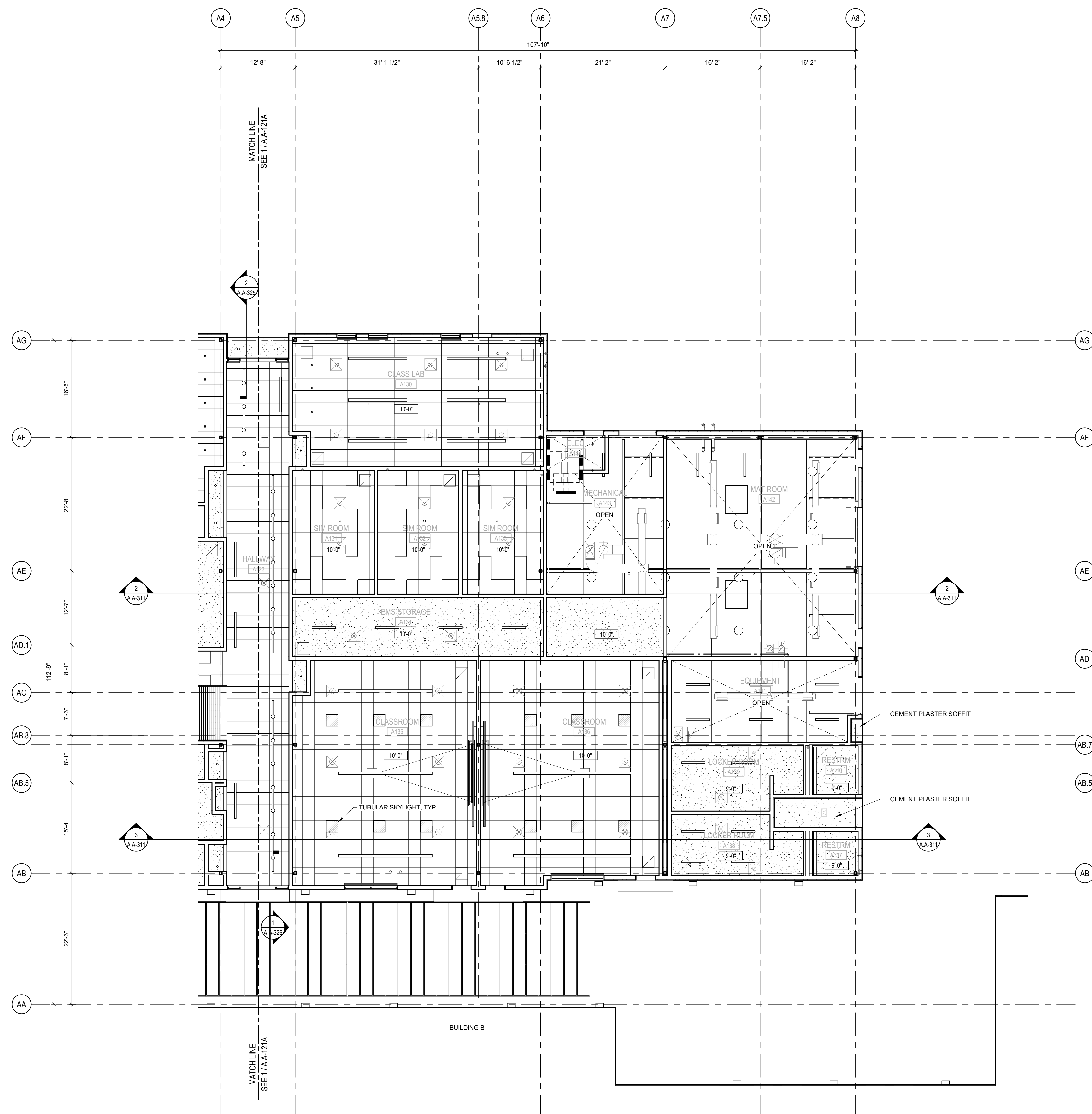
SHEET
A.A-121A

0 1/4" = 1'

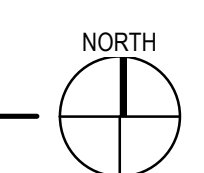
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1 BUILDING A - PARTIAL CEILING PLAN - AREA B
SCALE 1/8" = 1'-0"



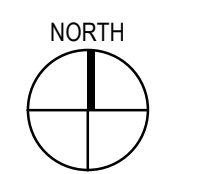
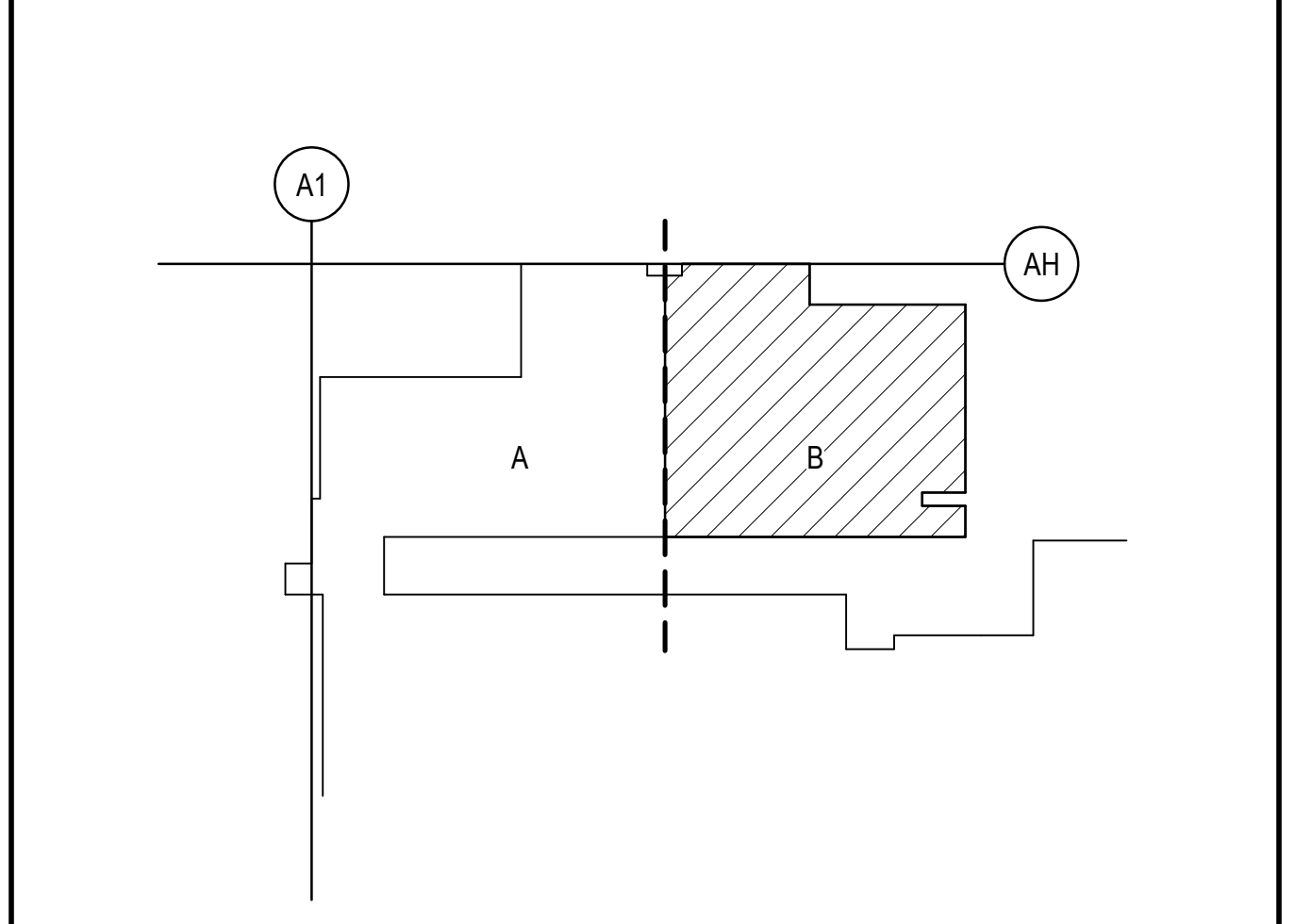
GENERAL NOTES

1. SEE FINISH SCHEDULE FOR CEILING FINISHES
2. SEE ELECTRICAL DWGS FOR LIGHT FIXTURES
3. ALL DIMENSIONS TO CENTERLINE OF LIGHT FIXTURES
4. CENTER FIXTURES BOTH WAYS IN DRYWALL SOFFITS UON

CEILING PLAN LEGEND

- 10'-0" CEILING HEIGHT, AFF
- GYPSON BOARD CEILING SYSTEM, FOR TYPICAL FRAMING DETAILS
SEE SHEETS A-535 AND A-536
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
MOISTURE RESISTANT GYPSON BOARD TO BE USED AT WET LOCATIONS, TYP
- OPEN OPEN TO ABOVE, WHERE OCCURS. PAINT UNDERSIDE OF STRUCTURE
- CL1: 2' x 4' SUSPENDED CEILING GRID
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
- CL2: 2' x 2' SUSPENDED CEILING GRID
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
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SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
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BASIS OF DESIGN MFR: ENDURE WOODGRAIN 3 BOARD 900 WITH INTEGRATED SPACERS
COLOR: TBD
- 2x2 SQUARE SOLAR TUBE SYSTEM
- CEILING ACCESS HATCH, SEE 19 OR 20/A-563
- 2x4 LIGHT FIXTURE, SEE ELECTRICAL DWGS
- 2x2 LIGHT FIXTURE, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 1, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 2, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 3, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 4, SEE ELECTRICAL DWGS
- CEILING MOUNTED PROJECTOR, SEE ELECTRICAL AND TELECOM DWGS
- WINDOW COVERING, SEE SHEET AG112
- CEILING MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION
- WALL MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION
- ELECTRICAL POWER REEL
- MECHANICAL SUPPLY DIFFUSER, SEE MECHANICAL DWGS
- MECHANICAL EXHAUST REGISTER, SEE MECHANICAL DWGS
- MECHANICAL RETURN REGISTER, SEE MECHANICAL DWGS
- EXIT SIGNAGE

KEY PLAN



FILE NO. ?XX-XXXX?
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?XX-XXX?
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LIVERMORE, CA 94551
CLIENT
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COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

ISSUED	MARK	DATE	DESCRIPTION
		01/10/2020	50% DESIGN DEVELOPMENT

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TITLE
**BUILDING A - PARTIAL
CEILING PLAN - AREA B**

SHEET
A.A-121B

0 1/4" = 1'

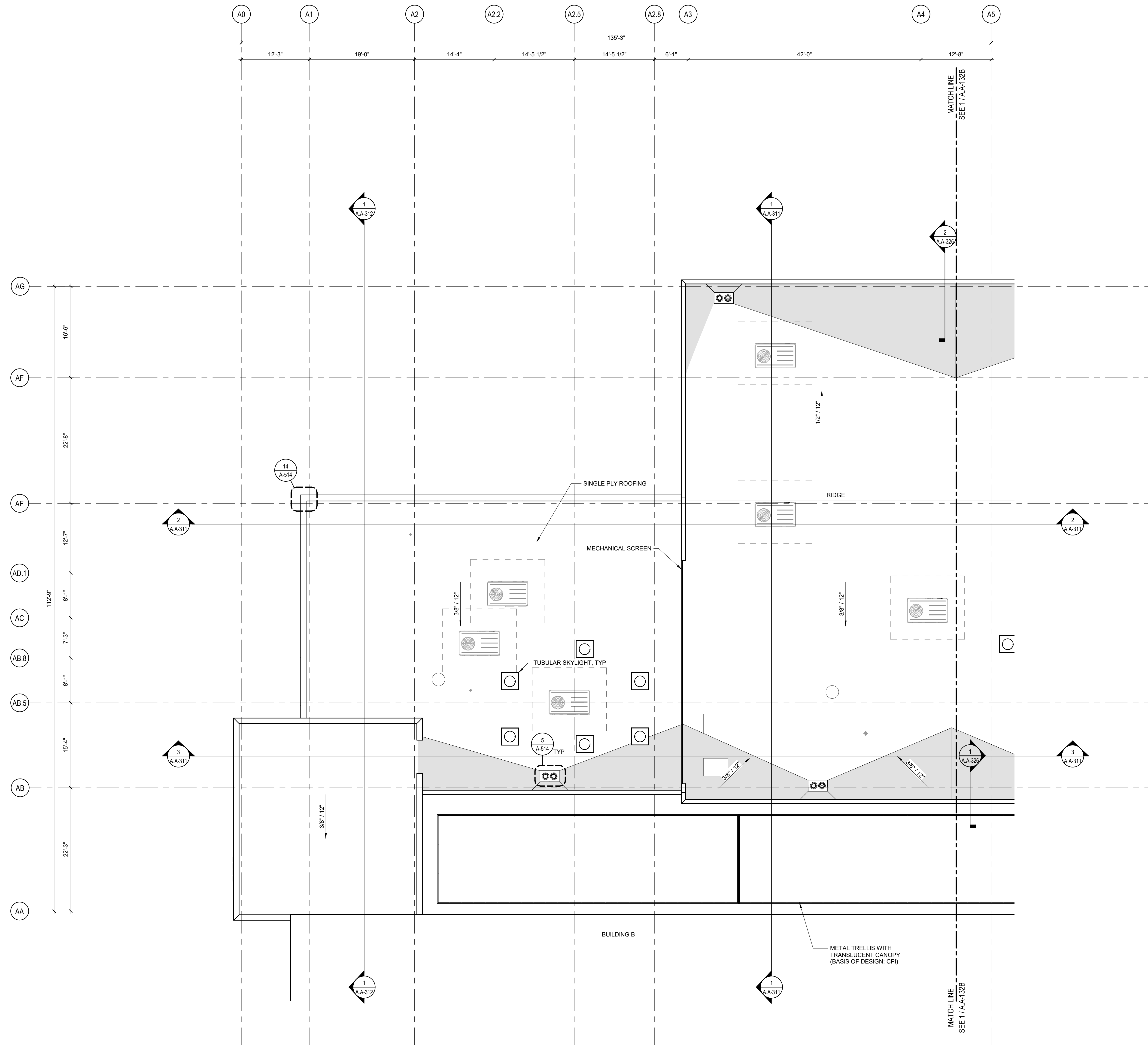
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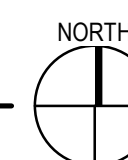
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1 BUILDING A - PARTIAL ROOF PLAN - AREA A
SCALE 1/8" = 1'-0"



GENERAL NOTES

1. MAJOR PENETRATIONS TO BE 24" MIN. FROM EACH OTHER AND FROM PARAPET WALLS
2. FOR TYP BOOT FLASHING AT SINGLE PLY ROOFING ASSEMBLY - SEE

FILE NO. ?XX-XXXX?

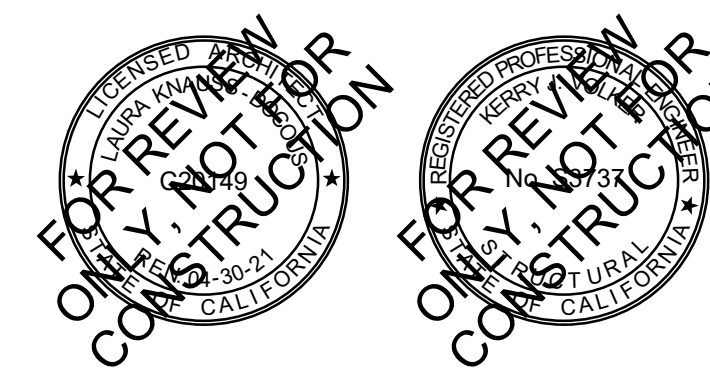
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ROOF PLAN LEGEND

- ROOF DRAIN AND OVERFLOW
CONNECT TO CIVIL BELOW GRADE. OVERFLOW DRAIN PIPE TO DAYLIGHT PER EXTERIOR ELEVATIONS SEE DET
- SLOPE TO DRAIN - 3/8" / 12"
- TAPERED CRICKET ASSEMBLY - SLOPE 3/8" / 12"
- SINGLE-PLY WALKWAY PADS
- PHOTOVOLTAIC PANELS. SEE ELECTRICAL DWGS
- SKYLIGHT
- FALL PROTECTION TIE-OFF ASSEMBLY AT 30'-0" OC MAX LOCATED WITHIN 6'-0" MAX FROM INSIDE FACE OF PARAPET SEE DETAIL
- RF-1: TPO ROOF ASSEMBLY SEE:
- MS-1: CORRUGATED METAL PANEL MECHANICAL SCREEN

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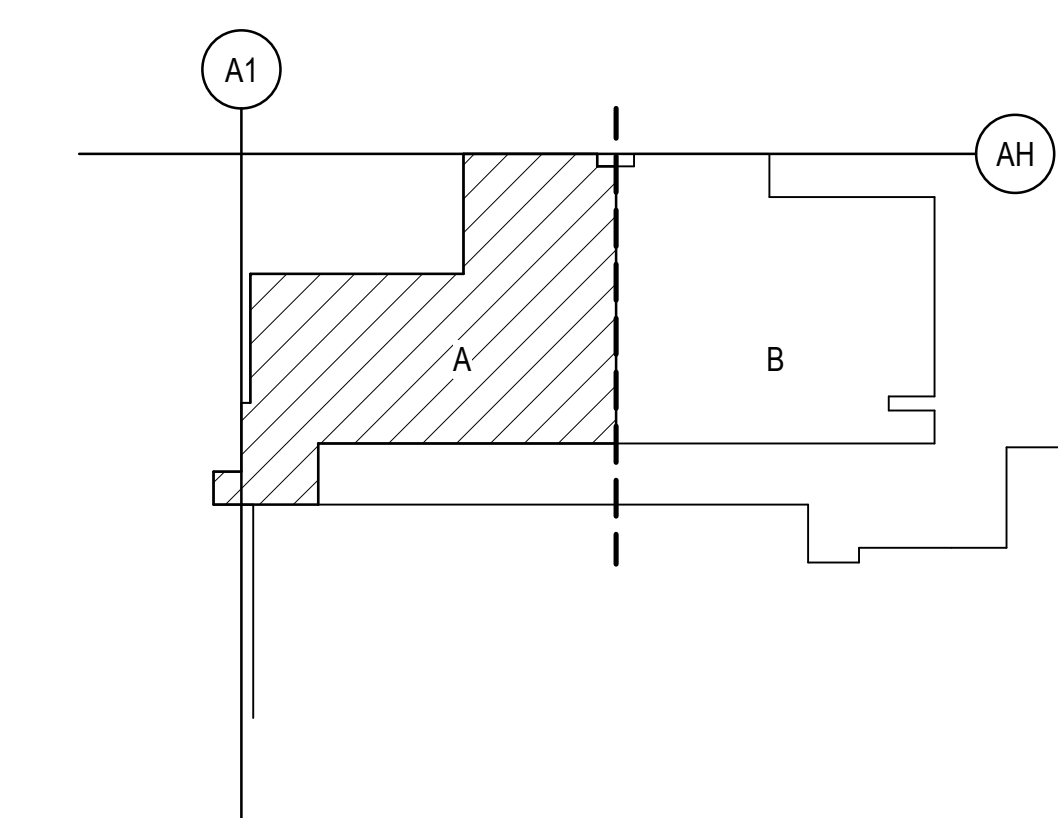
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CLIENT PROJECT NO.:	
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KEY PLAN



TITLE
BUILDING A - PARTIAL
ROOF PLAN - AREA A

SHEET

A.A-132A

0 1/4" = 1'

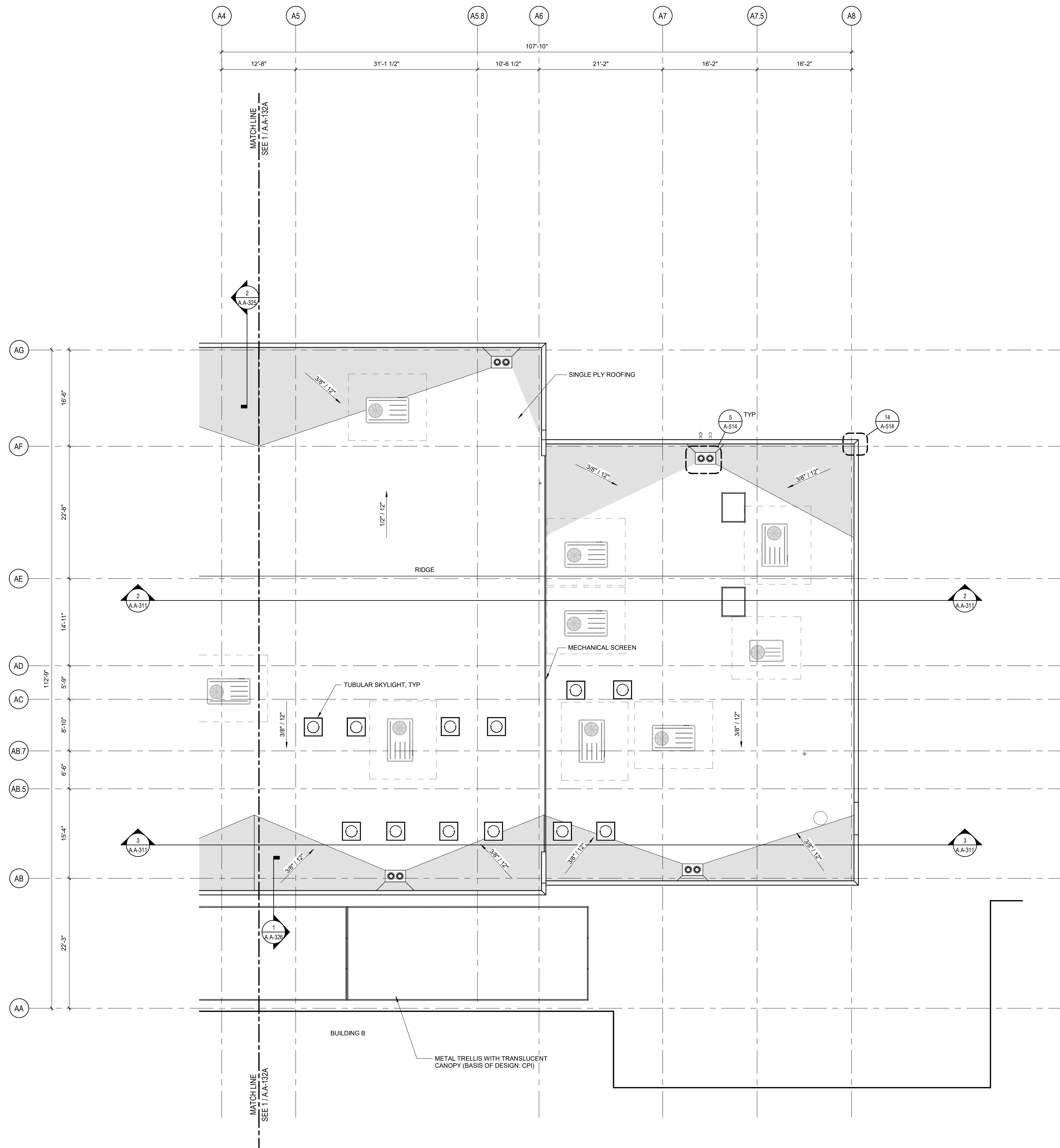
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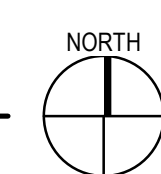
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1 BUILDING A - PARTIAL ROOF PLAN - AREA B
SCALE 1/8" = 1'-0"



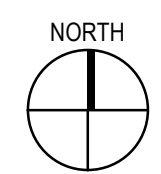
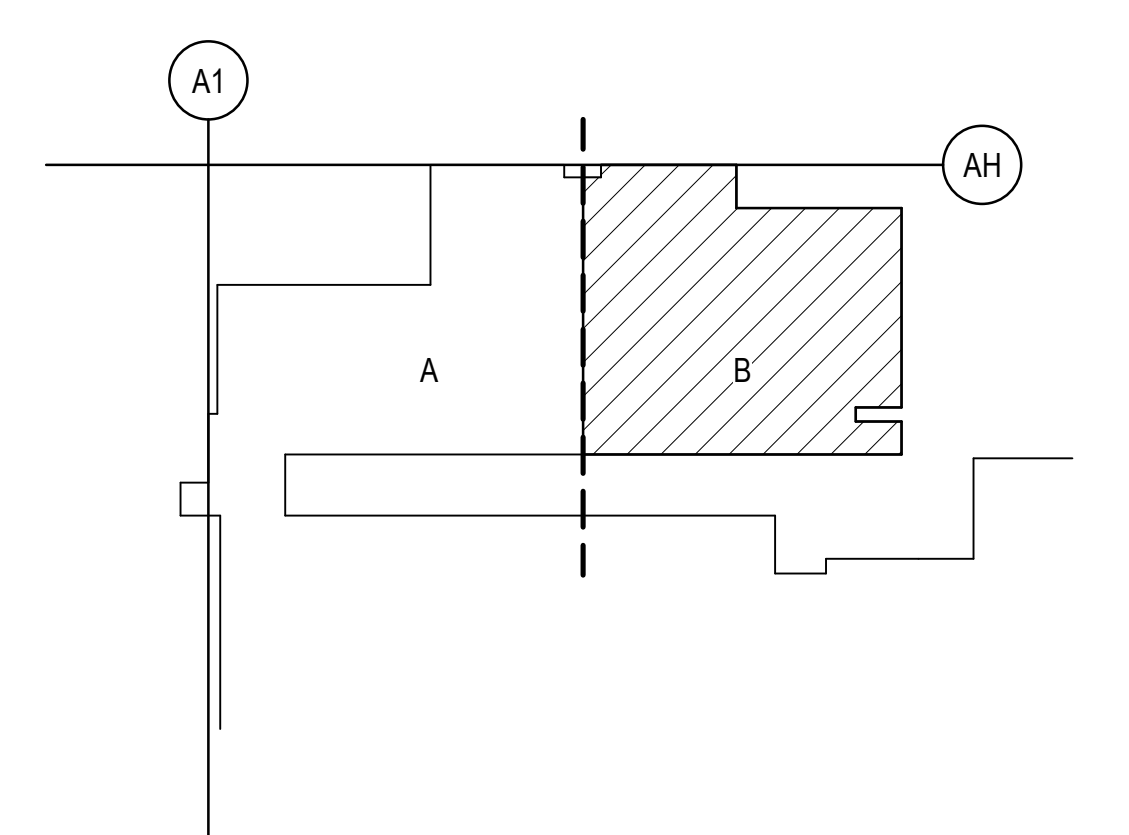
GENERAL NOTES

1. MAJOR PENETRATIONS TO BE 24" MIN. FROM EACH OTHER AND FROM PARAPET WALLS
2. FOR TYP BOOT FLASHING AT SINGLE PLY ROOFING ASSEMBLY - SEE

ROOF PLAN LEGEND

- ROOF DRAIN AND OVERFLOW
CONNECT TO CIVIL BELOW GRADE. OVERFLOW DRAIN PIPE TO DAYLIGHT PER EXTERIOR ELEVATIONS SEE DET
- SLOPE TO DRAIN - 3/8" / 12"
- TAPERED CRICKET ASSEMBLY - SLOPE 3/8" / 12"
- SINGLE-PLY WALKWAY PADS
- PHOTOVOLTAIC PANELS. SEE ELECTRICAL DWGS
- SKYLIGHT
- FALL PROTECTION TIE-OFF ASSEMBLY AT 30'-0" OC MAX LOCATED WITHIN 6'-0" MAX FROM INSIDE FACE OF PARAPET SEE DETAIL
- RF-1: TPO ROOF ASSEMBLY SEE:
- MS-1: CORRUGATED METAL PANEL MECHANICAL SCREEN

KEY PLAN



FILE NO. ?XX-XXXX?

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COLLEGE DISTRICT
7600 DUBLIN BLVD
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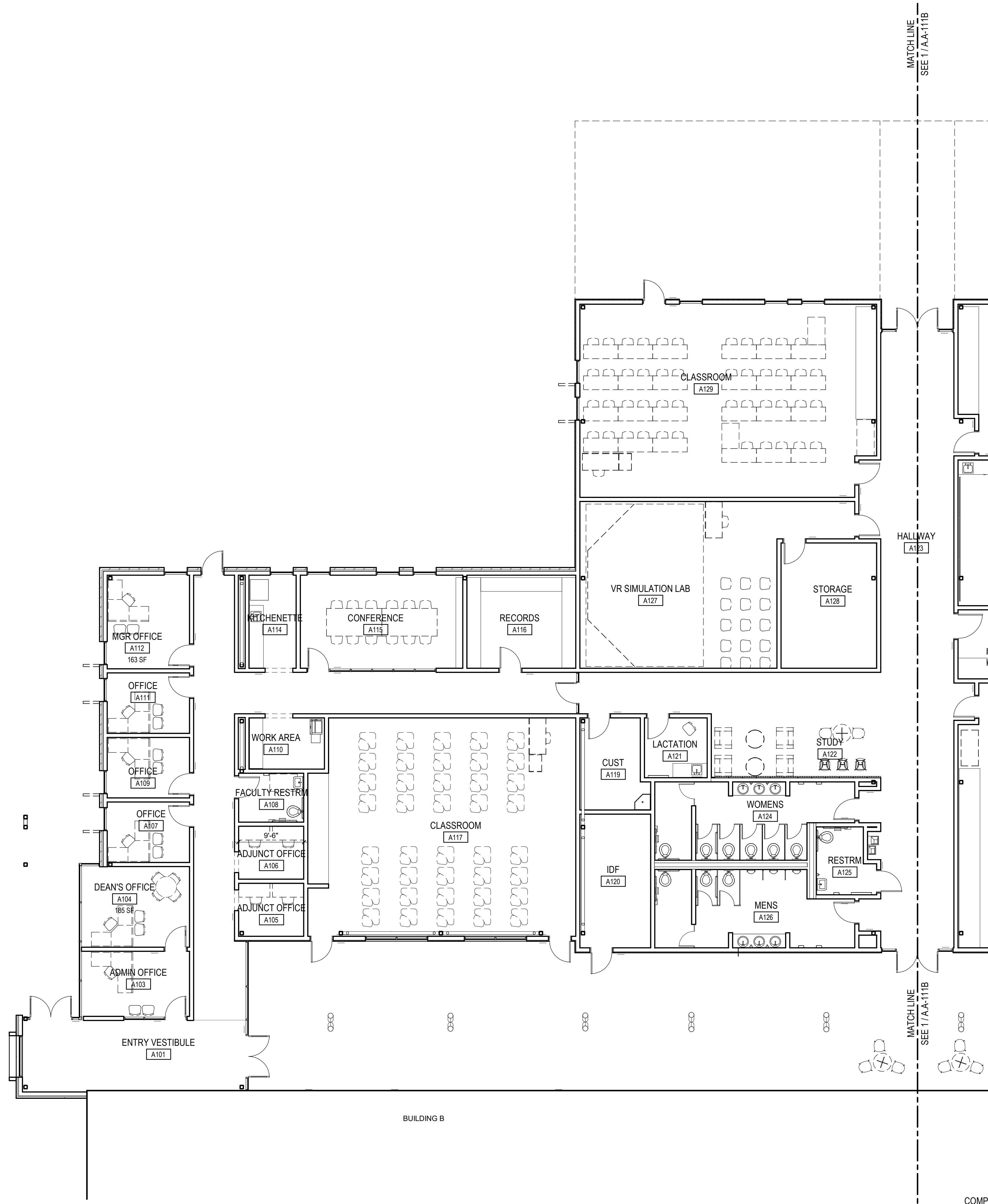
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MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

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TITLE
**BUILDING A - PARTIAL
ROOF PLAN - AREA B**

SHEET
A.A-132B

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 0 1/4" 1/2" 1"



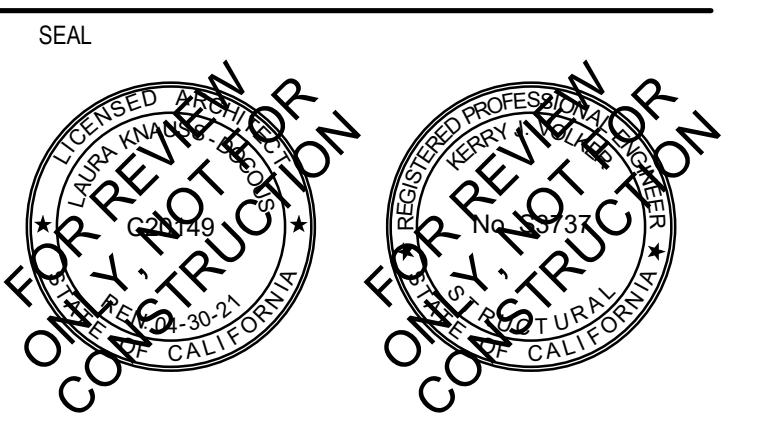
1 BUILDING A - PARTIAL FURN AND EQUIP PLAN - AREA A
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. ALL FURNISHINGS SHOWN AS HALFTONE AND/OR DASHED ARE N.I.C. AND ARE SHOWN FOR REFERENCE ONLY. SEE FLOOR PLANS FOR EQUIPMENT/FURNISHINGS INCLUDED IN SCOPE OF WORK.

FILE NO. ?XX-XXXX?
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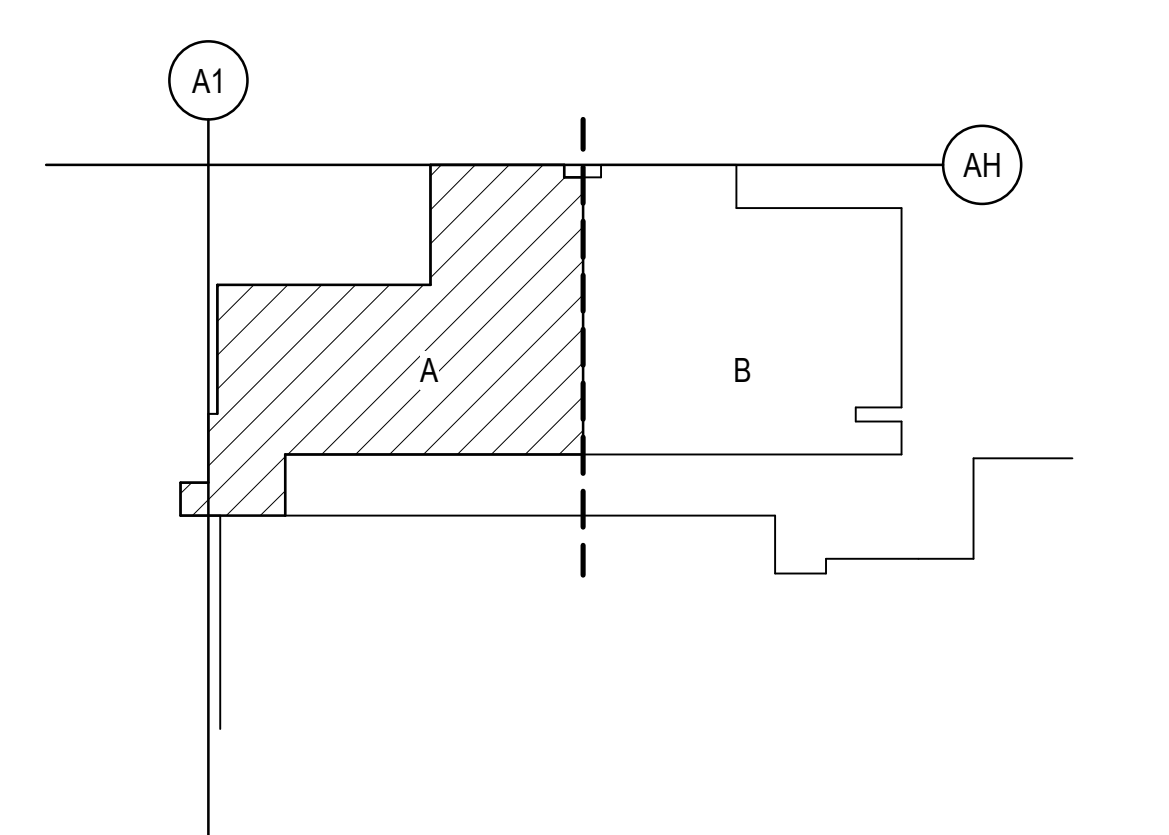
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MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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KEY PLAN



TITLE
**BUILDING A - PARTIAL
 FURN AND EQUIP PLAN
 - AREA A**

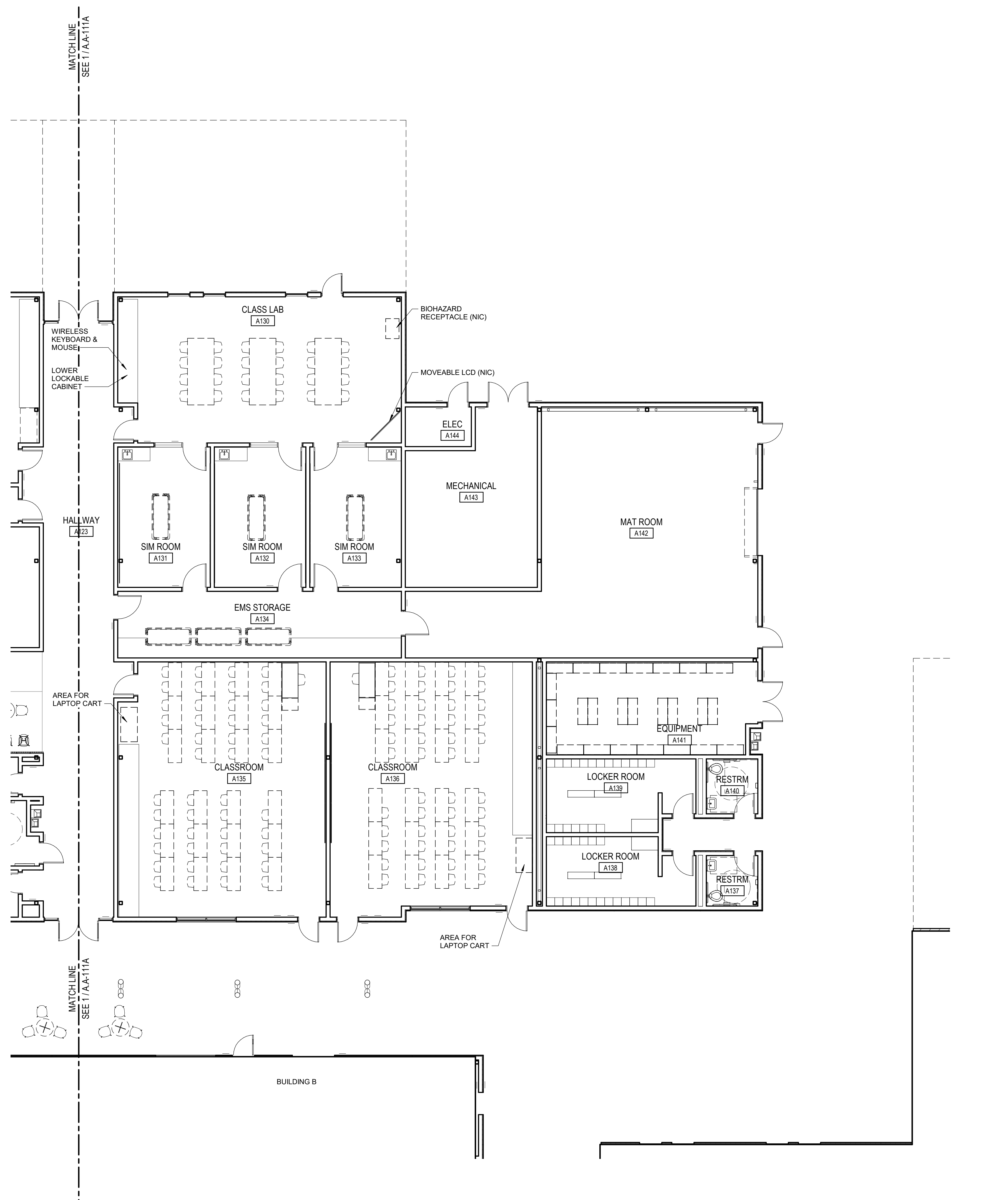
SHEET
A.A-151A

0 1/4" = 1'

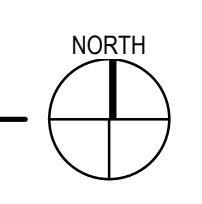
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1 BUILDING A - PARTIAL FURN AND EQUIP PLAN - AREA B
SCALE 1/8" = 1'-0"



GENERAL NOTES

1. ALL FURNISHINGS SHOWN AS HALFTONE AND/OR DASHED ARE N.I.C. AND ARE SHOWN FOR REFERENCE ONLY. SEE FLOOR PLANS FOR EQUIPMENT/FURNISHINGS INCLUDED IN SCOPE OF WORK

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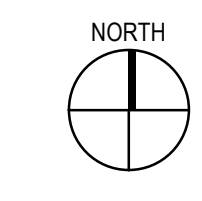
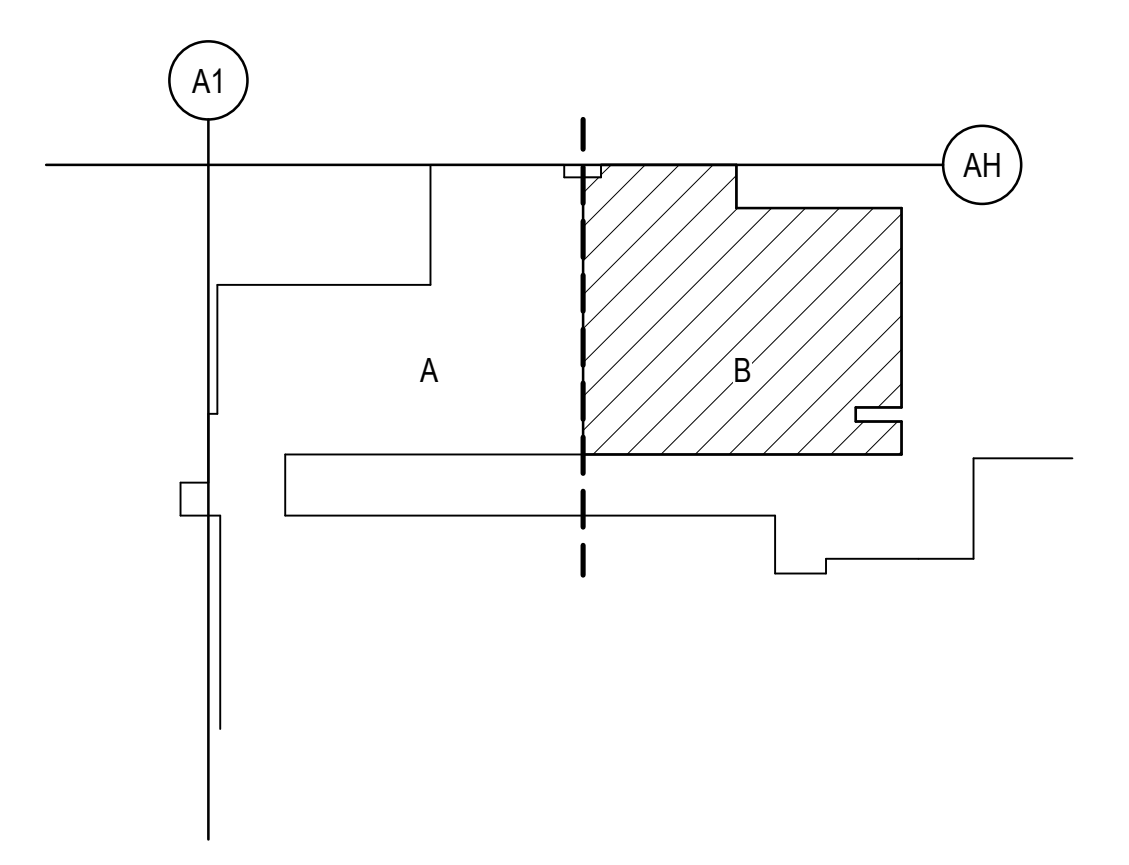
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KEY PLAN



TITLE
**BUILDING A - PARTIAL
FURN AND EQUIP PLAN
- AREA B**

SHEET
A.A-151B

0 1/4" = 1'

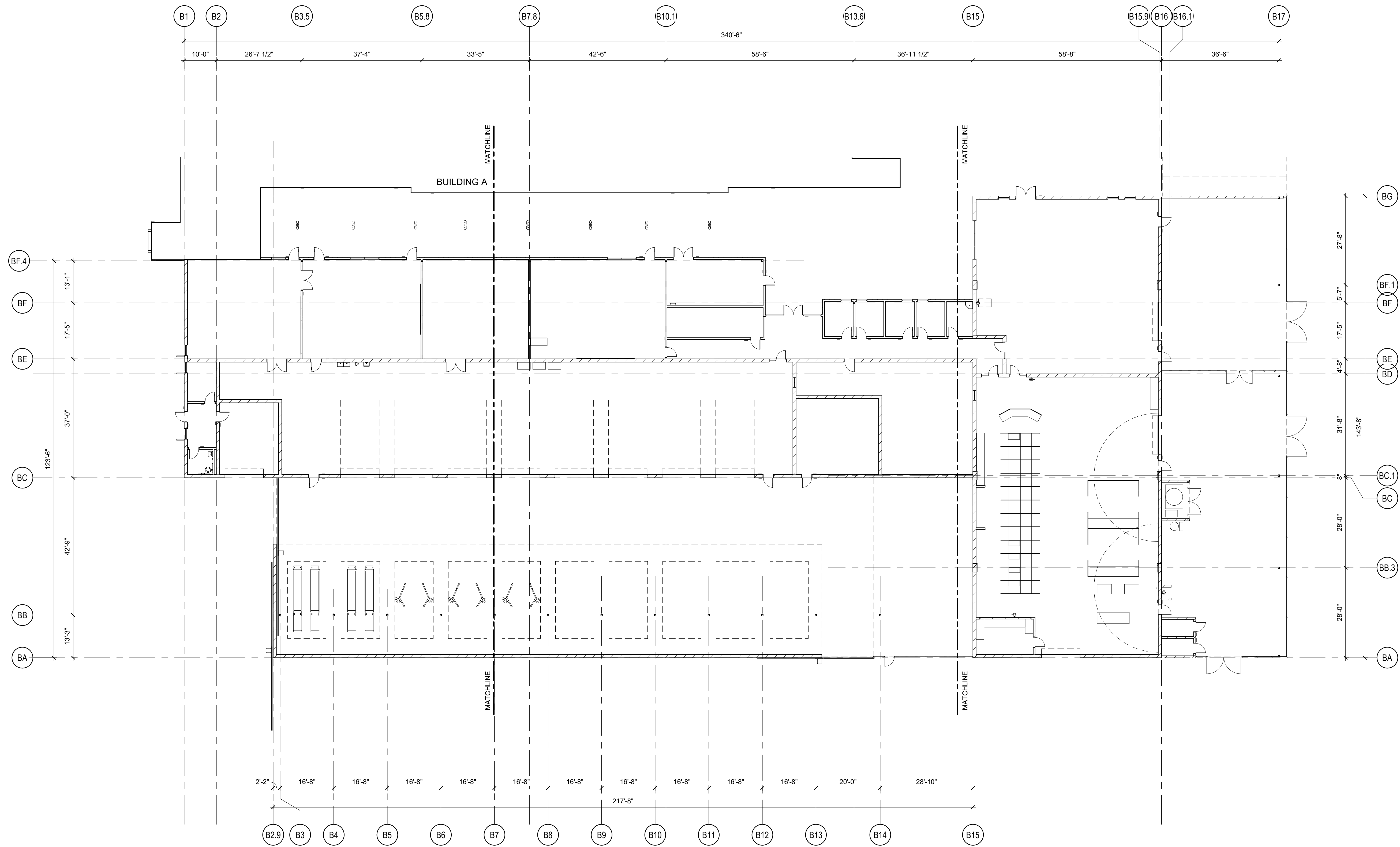
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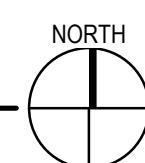
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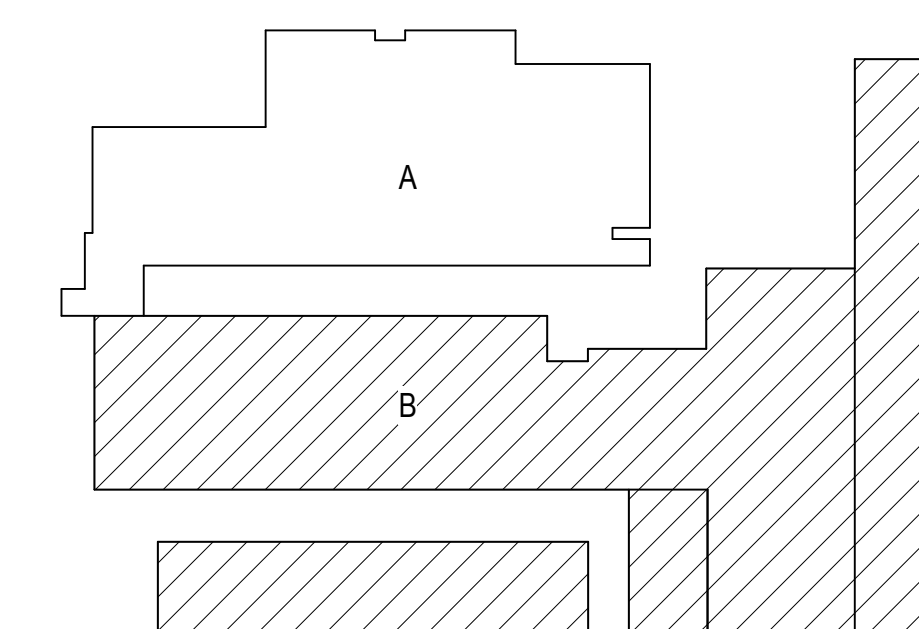
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1 BUILDING B - OVERALL FLOOR PLAN
SCALE: 1/16" = 1'-0"



KEY PLAN



TITLE
BUILDING B - OVERALL FLOOR PLAN

SHEET
B.A-111

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0 1/4" = 1'

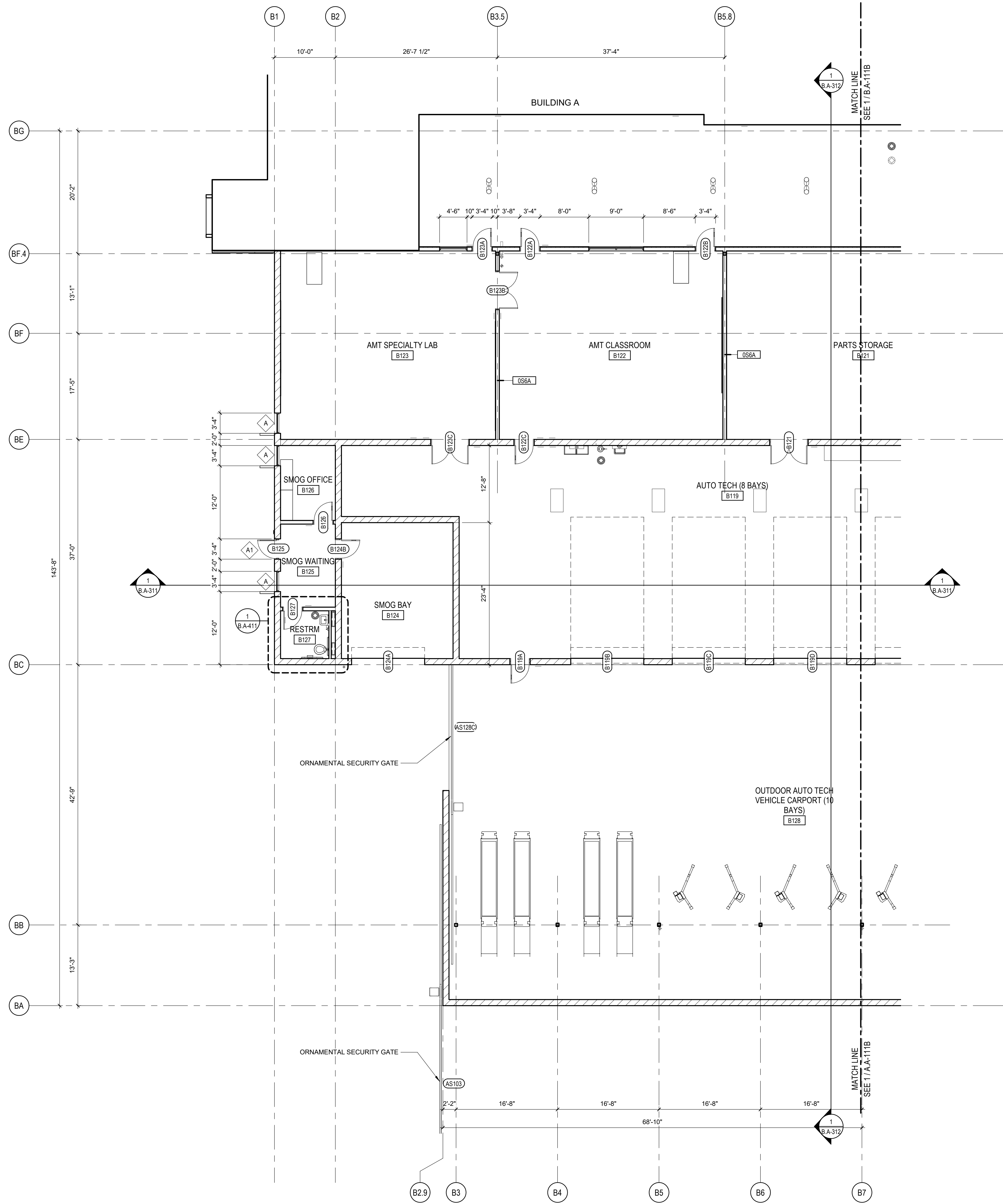
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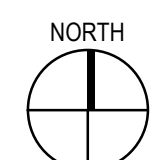
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1 BUILDING B - PARTIAL FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"



GENERAL NOTES

1. ARCHITECTURAL DIMENSIONS ARE TO FACE OF STUDS OR CENTERLINE OF COLUMN GRIDS UNLESS OTHERWISE NOTED. EXCEPTION: CLEAR DIMENSIONS AT DOORS AND 5'-0" DIA CLEARANCE CIRCLES ARE TO FACE OF FINISH, TYP
2. LOCATE DOOR JAMBS 4" AWAY FROM ADJACENT WALL UNLESS OTHERWISE DIMENSIONED.
3. KEY NOTED WALL TYPES SHALL EXTEND FROM CORNER TO CORNER, FULL LENGTH OF WALL UNLESS INDICATED OTHERWISE.
4. FOR SYMBOL LEGEND SEE SHEET G-001.
5. IF SLOPE IS PROVIDED IN ROOMS WITH FLOOR DRAINS (FD), SLOPE FLOOR MAX 2% TO DRAIN.
6. SEE SHEETS A-545 AND A-546 FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT.
7. STUDS AT ELECTRICAL ROOMS SHALL BE 16GA.
8. INSTALL THERMAL BATT INSULATION IN ALL EXTERIOR WALLS. ALL INTERIOR WALLS TO RECEIVE FULL DEPTH ACOUSTICAL BATT INSULATION.
9. SITE PLAN INFORMATION SHOWN ON FLOOR PLANS IS FOR REFERENCE PURPOSE ONLY. REFER TO CIVIL AND/OR LANDSCAPE DRAWINGS FOR SITE WORK.
10. FOR SEMI RECESSED FIRE EXTINGUISHER CABINET AT RATED WALL AND FOR NON RATED WALL SEE DETAIL.

FLOOR PLAN LEGEND

NOTE: SEE SHEET G-002 FOR ADDITIONAL SYMBOLS LEGEND AND ABBREVIATIONS

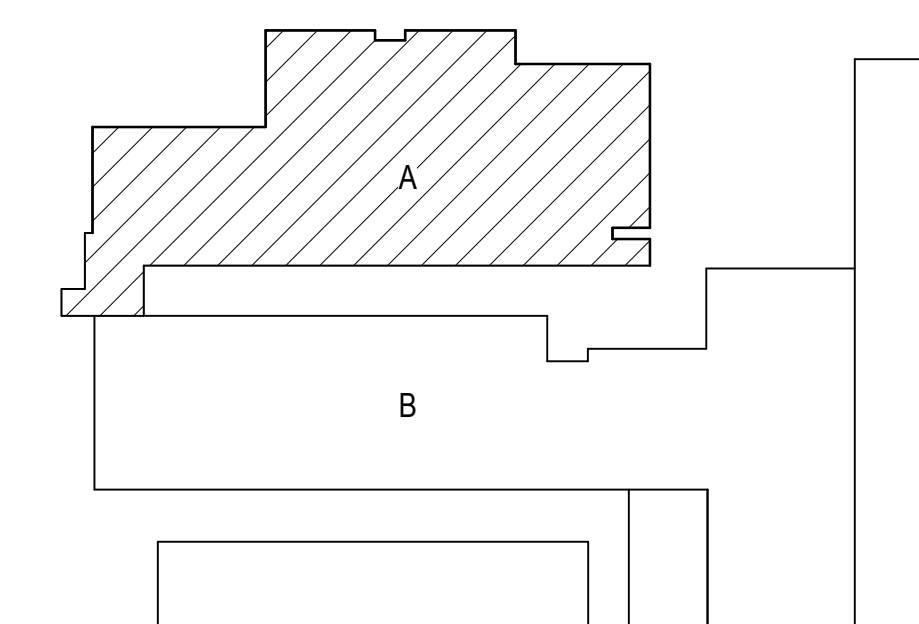
- | | |
|--|--|
| | ROOM IDENTIFIER WITH ROOM NAME & NUMBER |
| | DOOR, SEE SCHEDULE |
| | DOOR OPENING IDENTIFIER |
| | WINDOW OR LOUVER, SEE SCHEDULE |
| | WINDOW OR LOUVER IDENTIFIER |
| | FIRE EXTINGUISHER CABINET, SEE DETAIL |
| | AUTOMATIC EXTERNAL DEFIBRILLATOR |
| | WALL MOUNTED DOOR ACTUATOR |
| | DOOR ACTUATOR MOUNTED TO PEDESTAL AND CARD READER WHERE OCCURS |
| | INSTRUCTOR'S DESK, SEE SPECS |
| | 30"x48" CLR ACCESSIBLE SPACE AT ALL INSTRUCTOR'S DESK |
| | NEAREST OBSTRUCTION |
| | 60" CLEAR ACCESSIBLE TURNING SPACE |
| | PARTITION TYPE INDICATOR, SEE SHEET A-541 FOR ADDITIONAL INFORMATION |

WALL LEGEND

NOTE: SEE SHEET A-531 FOR WALL TYPE DESCRIPTIONS, UL LISTINGS, AND ADDITIONAL WALL TYPES NOT LISTED ON LEGEND

- FULL HEIGHT MTL STUD PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE
- FULL HEIGHT 1-HOUR RATED MTL STUD PARTITION WITH ACOUSTICAL INSULATION AND RATED OPENINGS PER DOOR SCHEDULE, SEE WALL TYPE SCHEDULE
- FULL HEIGHT SMOKE RESISTANT MTL STUD PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE
- FULL HEIGHT MTL STUD CHASE PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE

KEY PLAN



FILE NO. ?XX-XXXX?

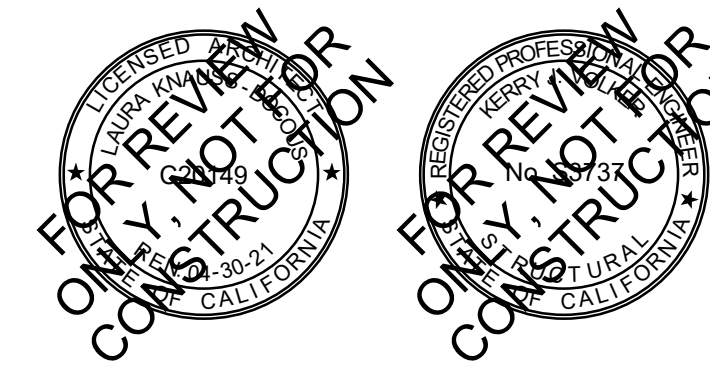
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COLLEGE DISTRICT
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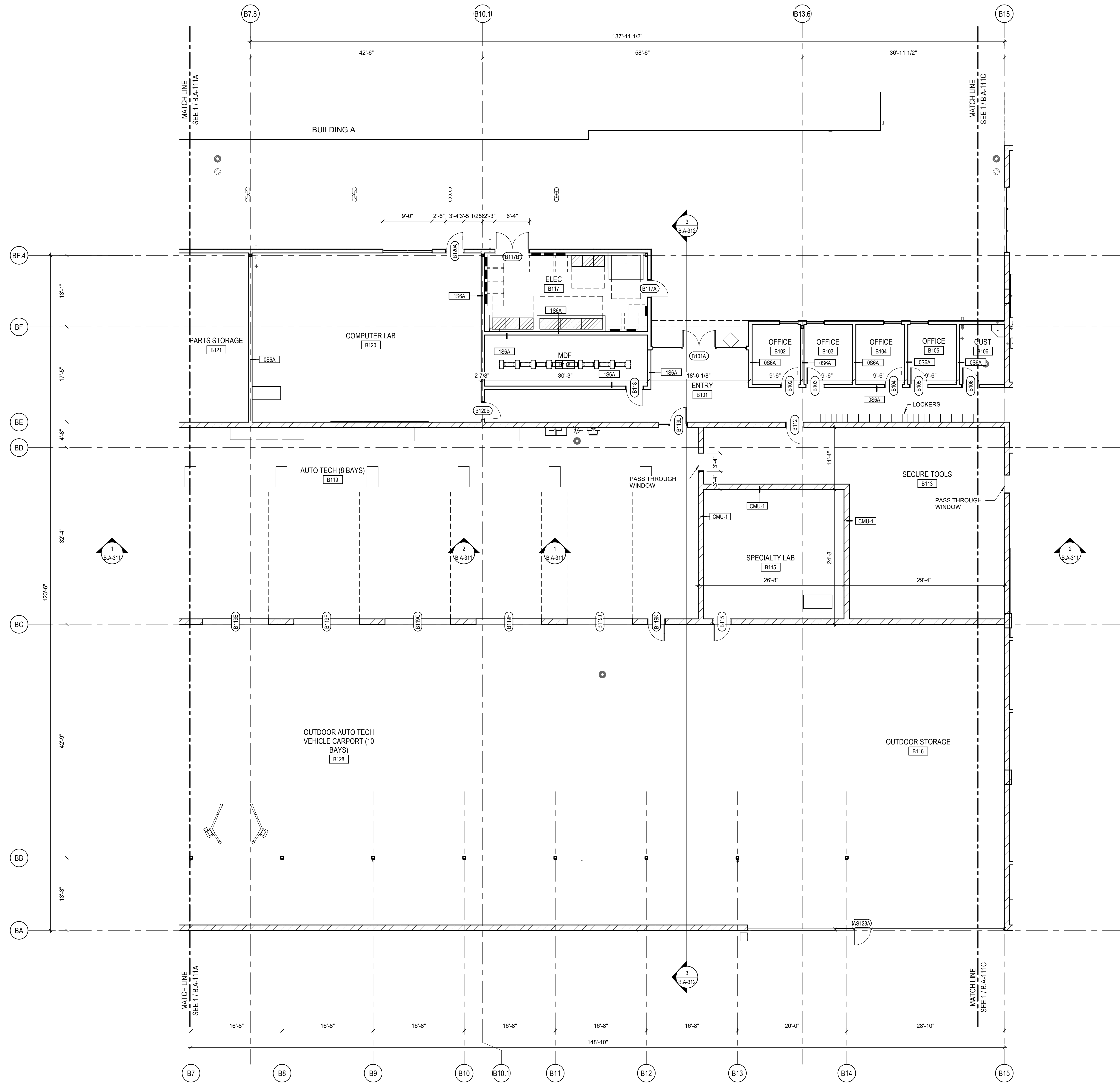
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**BUILDING B - PARTIAL
FLOOR PLAN - AREA A**

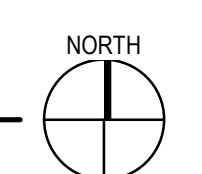
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1 BUILDING B - PARTIAL FLOOR PLAN - AREA B
SCALE 1/8" = 1'-0"



GENERAL NOTES

1. ARCHITECTURAL DIMENSIONS ARE TO FACE OF STUDS OR CENTERLINE OF COLUMN GRIDS UNLESS OTHERWISE NOTED. EXCEPTION: CLEAR DIMENSIONS AT DOORS AND 5'-0" DIA CLEARANCE CIRCLES ARE TO FACE OF FINISH, TYP
2. LOCATE DOOR JAMBS 4" AWAY FROM ADJACENT WALL UNLESS OTHERWISE DIMENSIONED.
3. KEY NOTED WALL TYPES SHALL EXTEND FROM CORNER TO CORNER, FULL LENGTH OF WALL UNLESS INDICATED OTHERWISE.
4. FOR SYMBOL LEGEND SEE SHEET G-001.
5. IF SLOPE IS PROVIDED IN ROOMS WITH FLOOR DRAINS (FD), SLOPE FLOOR MAX 2% TO DRAIN.
6. SEE SHEETS A-545 AND A-546 FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT.
7. STUDS AT ELECTRICAL ROOMS SHALL BE 16GA.
8. INSTALL THERMAL BATT INSULATION IN ALL EXTERIOR WALLS. ALL INTERIOR WALLS TO RECEIVE FULL DEPTH ACOUSTICAL BATT INSULATION, UON.
9. SITE PLAN INFORMATION SHOWN ON FLOOR PLANS IS FOR REFERENCE PURPOSE ONLY. REFER TO CIVIL AND/OR LANDSCAPE DRAWINGS FOR SITE WORK.
10. FOR SEMI RECESSED FIRE EXTINGUISHER CABINET AT RATED WALL AND FOR NON RATED WALL SEE DETAIL.

FLOOR PLAN LEGEND

NOTE: SEE SHEET G-002 FOR ADDITIONAL SYMBOLS LEGEND AND ABBREVIATIONS

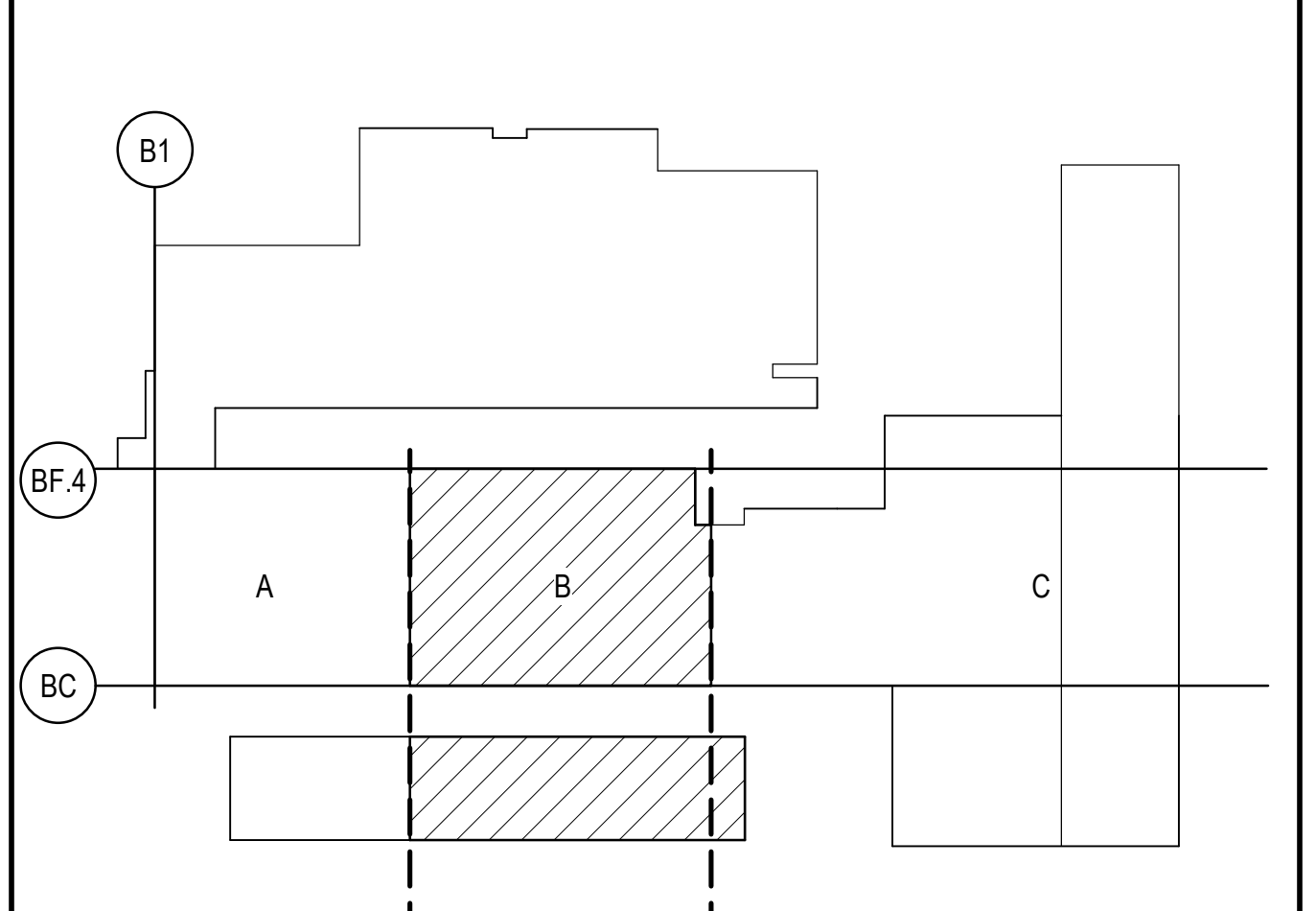
	ROOM NAME	ROOM IDENTIFIER WITH ROOM NAME & NUMBER
	DOOR	DOOR OPENING IDENTIFIER
	WINDOW OR LOUVER	WINDOW OR LOUVER IDENTIFIER
	FIRE EXTINGUISHER CABINET	SEE DETAIL
	AUTOMATIC EXTERNAL DEFIBRILLATOR	
	WALL MOUNTED DOOR ACTUATOR	
	DOOR ACTUATOR MOUNTED TO PEDESTAL AND CARD READER WHERE OCCURS	
	INSTRUCTOR'S DESK	SEE SPECS
	30"x48" CLR ACCESSIBLE SPACE AT ALL INSTRUCTOR'S DESK	
	NEAREST OBSTRUCTION	
	60" CLEAR ACCESSIBLE TURNING SPACE	
	PARTITION TYPE INDICATOR	SEE SHEET A-541 FOR ADDITIONAL INFORMATION

WALL LEGEND

NOTE: SEE SHEET A-531 FOR WALL TYPE DESCRIPTIONS, UL LISTINGS, AND ADDITIONAL WALL TYPES NOT LISTED ON LEGEND

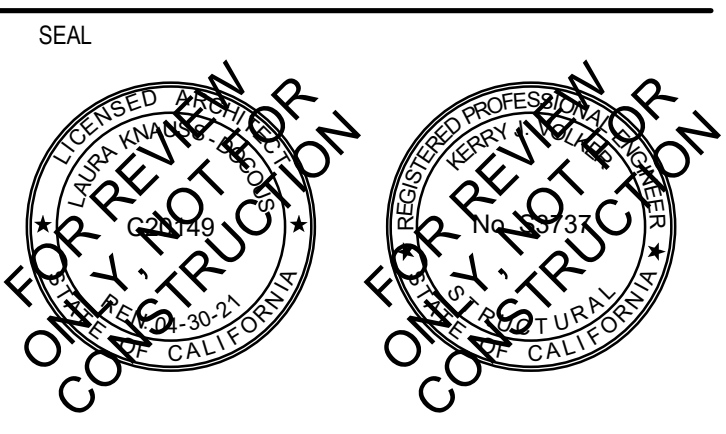
	FULL HEIGHT MTL STUD PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE
	FULL HEIGHT 1-HOUR RATED MTL STUD PARTITION WITH ACOUSTICAL INSULATION AND RATED OPENINGS PER DOOR SCHEDULE, SEE WALL TYPE SCHEDULE
	FULL HEIGHT SMOKE RESISTANT MTL STUD PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE
	FULL HEIGHT MTL STUD CHASE PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE

KEY PLAN



FILE NO. ??X-XXXX?
IDENTIFICATION STAMP
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TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

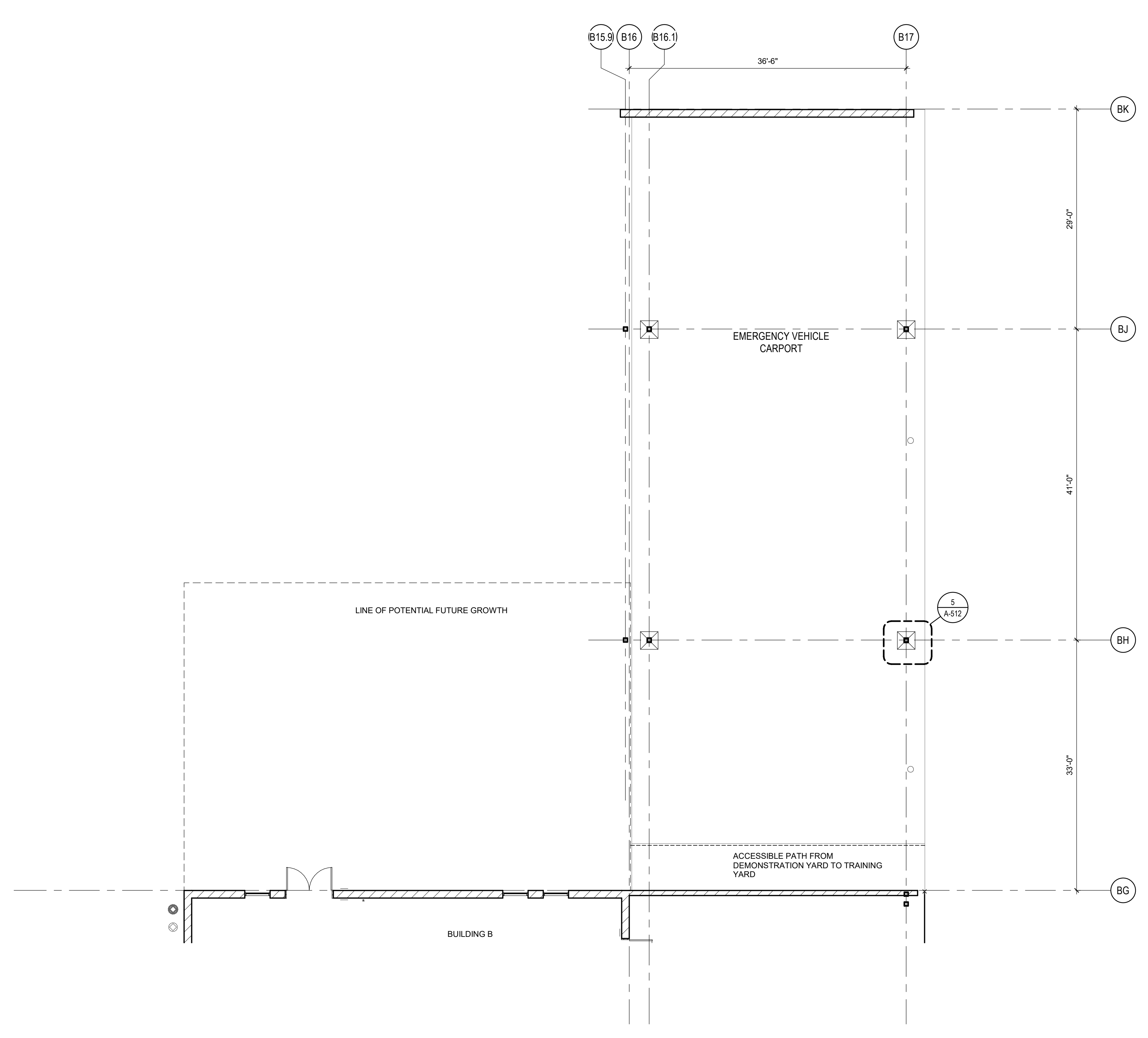
CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING B - PARTIAL
FLOOR PLAN - AREA B**

SHEET
B.A-111B



1 BUILDING B - PARTIAL FLOOR PLAN - CARPORT
SCALE 1/8" = 1'-0"

GENERAL NOTES

1. ARCHITECTURAL DIMENSIONS ARE TO FACE OF STUDS OR CENTERLINE OF COLUMN GRIDS UNLESS OTHERWISE NOTED. EXCEPTION: CLEAR DIMENSIONS AT DOORS AND 5'-0" DIA CLEARANCE CIRCLES ARE TO FACE OF FINISH, TYP
2. LOCATE DOOR JAMBS 4" AWAY FROM ADJACENT WALL UNLESS OTHERWISE DIMENSIONED.
3. KEY NOTED WALL TYPES SHALL EXTEND FROM CORNER TO CORNER, FULL LENGTH OF WALL UNLESS INDICATED OTHERWISE.
4. FOR SYMBOL LEGEND SEE SHEET G-001.
5. IF SLOPE IS PROVIDED IN ROOMS WITH FLOOR DRAINS (FD), SLOPE FLOOR MAX 2% TO DRAIN.
6. SEE SHEETS A-545 AND A-546 FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT.
7. STUDS AT ELECTRICAL ROOMS SHALL BE 16GA.
8. INSTALL THERMAL BATT INSULATION IN ALL EXTERIOR WALLS. ALL INTERIOR WALLS TO RECEIVE FULL DEPTH ACOUSTICAL BATT INSULATION, UON.
9. SITE PLAN INFORMATION SHOWN ON FLOOR PLANS IS FOR REFERENCE PURPOSE ONLY. REFER TO CIVIL AND/OR LANDSCAPE DRAWINGS FOR SITE WORK.
10. FOR SEMI RECESSED FIRE EXTINGUISHER CABINET AT RATED WALL AND FOR NON RATED WALL SEE DETAIL.

FLOOR PLAN LEGEND

NOTE: SEE SHEET G-002 FOR ADDITIONAL SYMBOLS LEGEND AND ABBREVIATIONS

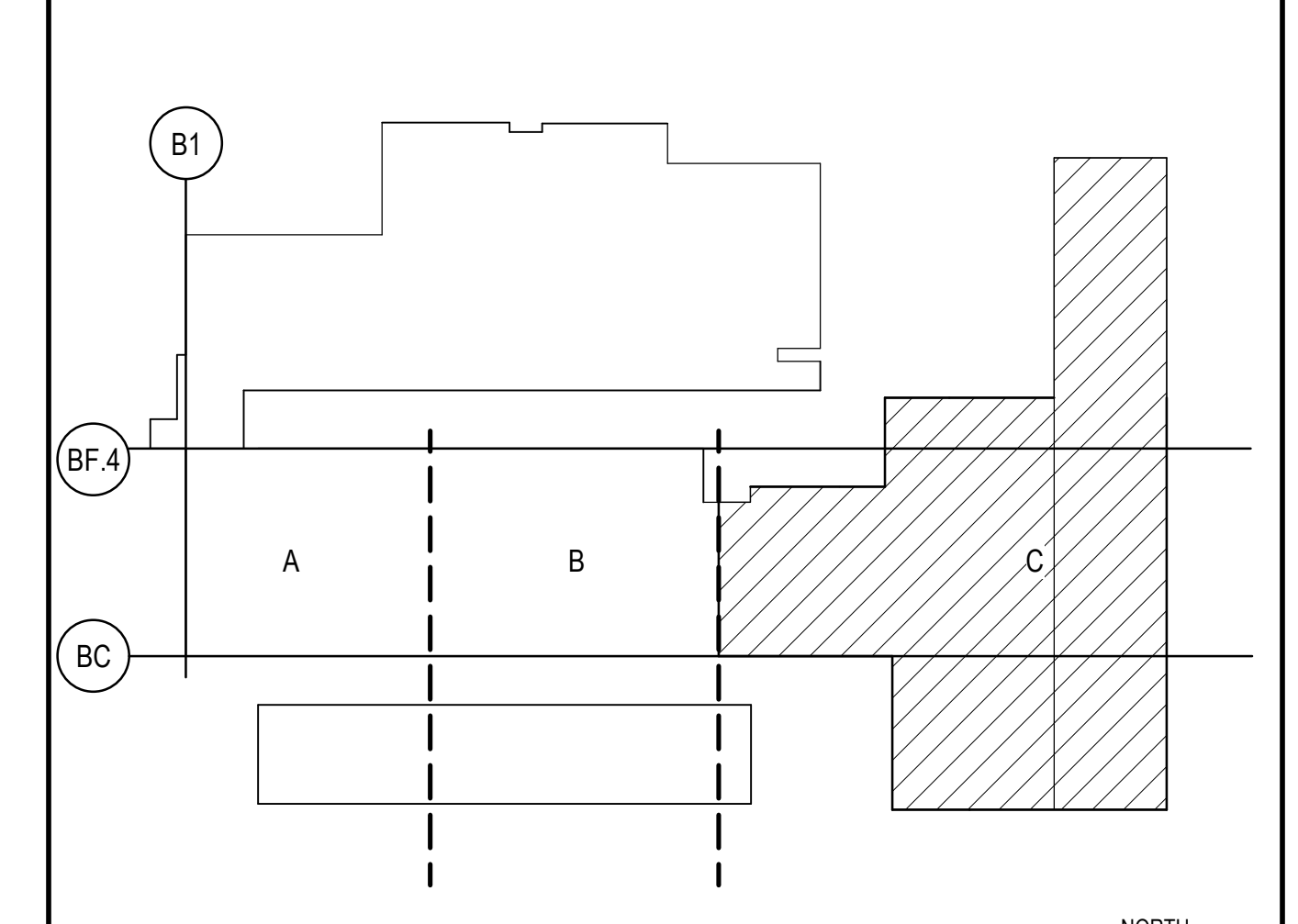
	ROOM IDENTIFIER WITH ROOM NAME & NUMBER
	DOOR, SEE SCHEDULE
	DOOR OPENING IDENTIFIER
	WINDOW OR LOUVER, SEE SCHEDULE
	WINDOW OR LOUVER IDENTIFIER
	FIRE EXTINGUISHER CABINET, SEE DETAIL
	AUTOMATIC EXTERNAL DEFIBRILLATOR
	WALL MOUNTED DOOR ACTUATOR
	DOOR ACTUATOR MOUNTED TO PEDESTAL AND CARD READER WHERE OCCURS
	INSTRUCTOR'S DESK, SEE SPECS
	30"x48" CLR ACCESSIBLE SPACE AT ALL INSTRUCTOR'S DESK
	NEAREST OBSTRUCTION
	60" CLEAR ACCESSIBLE TURNING SPACE
	PARTITION TYPE INDICATOR, SEE SHEET A-541 FOR ADDITIONAL INFORMATION

WALL LEGEND

NOTE: SEE SHEET A-531 FOR WALL TYPE DESCRIPTIONS, UL LISTINGS, AND ADDITIONAL WALL TYPES NOT LISTED ON LEGEND

	FULL HEIGHT MTL STUD PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE
	FULL HEIGHT 1-HOUR RATED MTL STUD PARTITION WITH ACOUSTICAL INSULATION AND RATED OPENINGS PER DOOR SCHEDULE, SEE WALL TYPE SCHEDULE
	FULL HEIGHT SMOKE RESISTANT MTL STUD PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE
	FULL HEIGHT MTL STUD CHASE PARTITION WITH ACOUSTICAL INSULATION, SEE WALL TYPE SCHEDULE

KEY PLAN



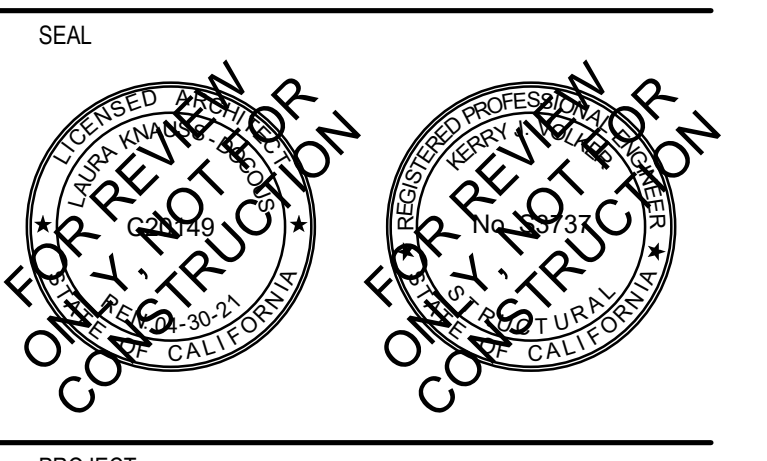
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CLIENT
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COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

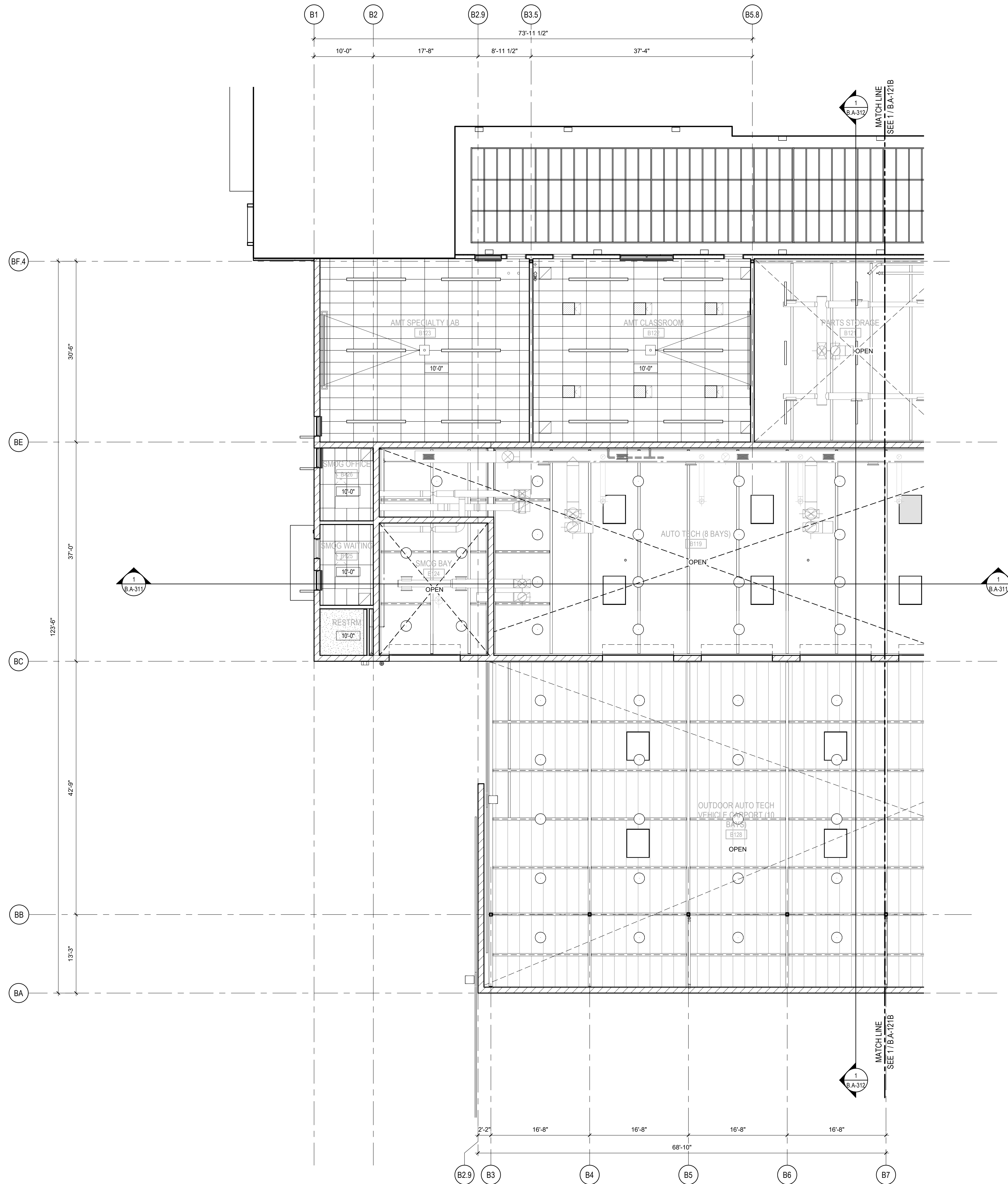
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MANAGEMENT
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TITLE
**BUILDING B - PARTIAL
FLOOR PLAN -
CARPORT**

SHEET
B.A-111D

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1 BUILDING B - PARTIAL CEILING PLAN - AREA A
SCALE 1/8" = 1'-0"



GENERAL NOTES

1. SEE FINISH SCHEDULE FOR CEILING FINISHES
2. SEE ELECTRICAL DWGS FOR LIGHT FIXTURES
3. ALL DIMENSIONS TO CENTERLINE OF LIGHT FIXTURES
4. CENTER FIXTURES BOTH WAYS IN DRYWALL SOFFITS UON

CEILING PLAN LEGEND

10'-0" CEILING HEIGHT, AFF

GYP-SUM BOARD CEILING SYSTEM, FOR TYPICAL FRAMING DETAILS
SEE SHEETS A-535 AND A-536
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
MOISTURE RESISTANT GYP-SUM BOARD TO BE USED AT WET LOCATIONS, TYP

OPEN
OPEN TO ABOVE, WHERE OCCURS. PAINT UNDERSIDE OF STRUCTURE

CL1: 2' x 4' SUSPENDED CEILING GRID
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR

CL2: 2' x 2' SUSPENDED CEILING GRID
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR

CL4: 1' x 8' W/ BACKER, 8 BLADES WITH 6" ACOUSTICAL BATT INSULATION ABOVE GYP CEILING
B.O.D. MFR: ARMSTRONG, WOODWORKS CHANNLELED PLANK
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR

LC-1: LINEAR METAL CEILING SYSTEM
BASIS OF DESIGN MFR: ENDURE WOODGRAIN 3 BOARD 900 WITH INTEGRATED SPACERS
COLOR: TBD

2x2 SQUARE SOLAR TUBE SYSTEM

CEILING ACCESS HATCH, SEE 19 OR 20/A-563

2x4 LIGHT FIXTURE, SEE ELECTRICAL DWGS

2x2 LIGHT FIXTURE, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 1, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 2, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 3, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 4, SEE ELECTRICAL DWGS

CEILING MOUNTED PROJECTOR, SEE ELECTRICAL AND TELECOM DWGS

WINDOW COVERING, SEE SHEET AG112

CEILING MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION

WALL MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION

ELECTRICAL POWER REEL

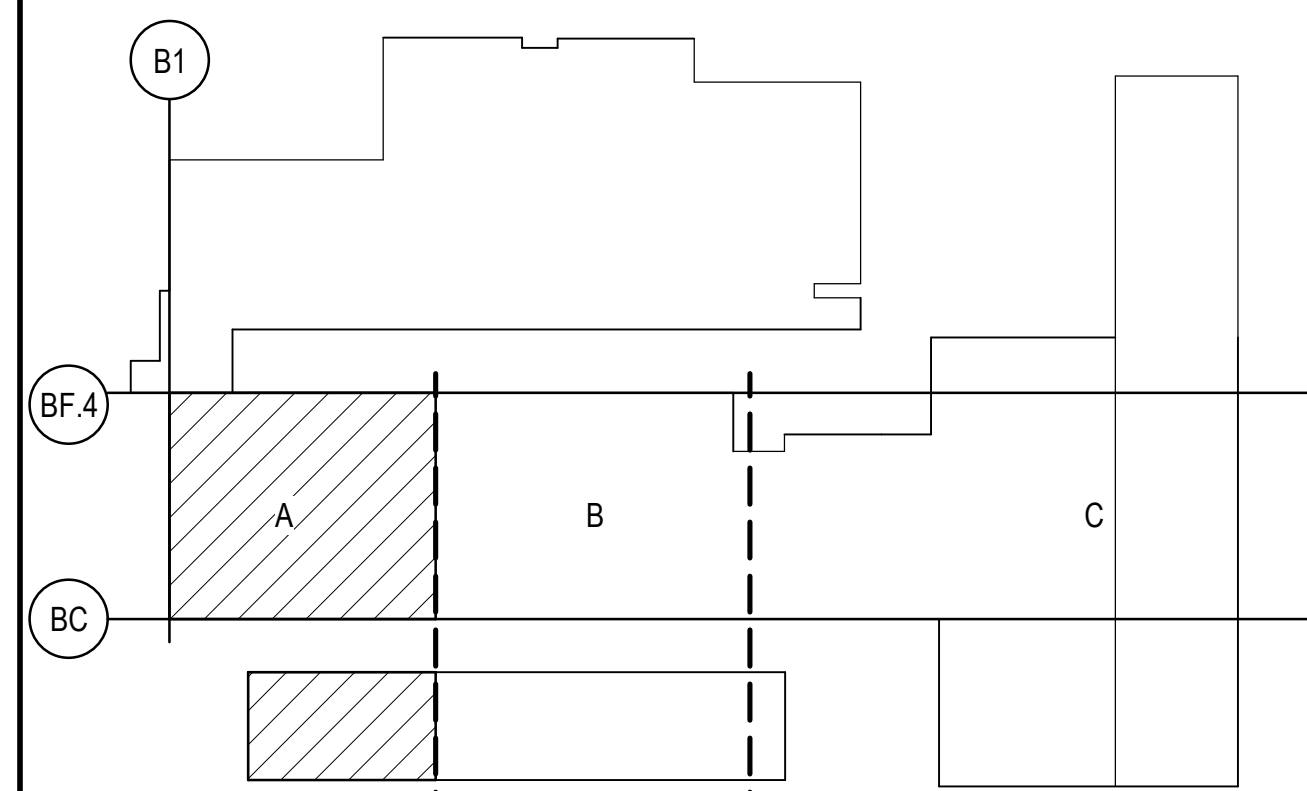
MECHANICAL SUPPLY DIFFUSER, SEE MECHANICAL DWGS

MECHANICAL EXHAUST REGISTER, SEE MECHANICAL DWGS

MECHANICAL RETURN REGISTER, SEE MECHANICAL DWGS

EXIT SIGNAGE

KEY PLAN



SHEET

FILE NO. ?XX-XXXX?

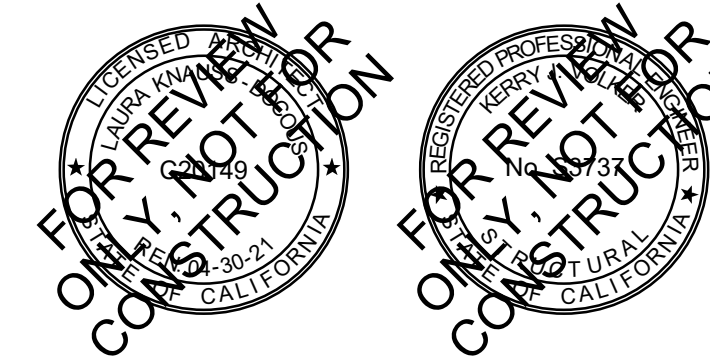
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COLLEGE DISTRICT
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	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT

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TITLE

**BUILDING B - PARTIAL
CEILING PLAN - AREA A**

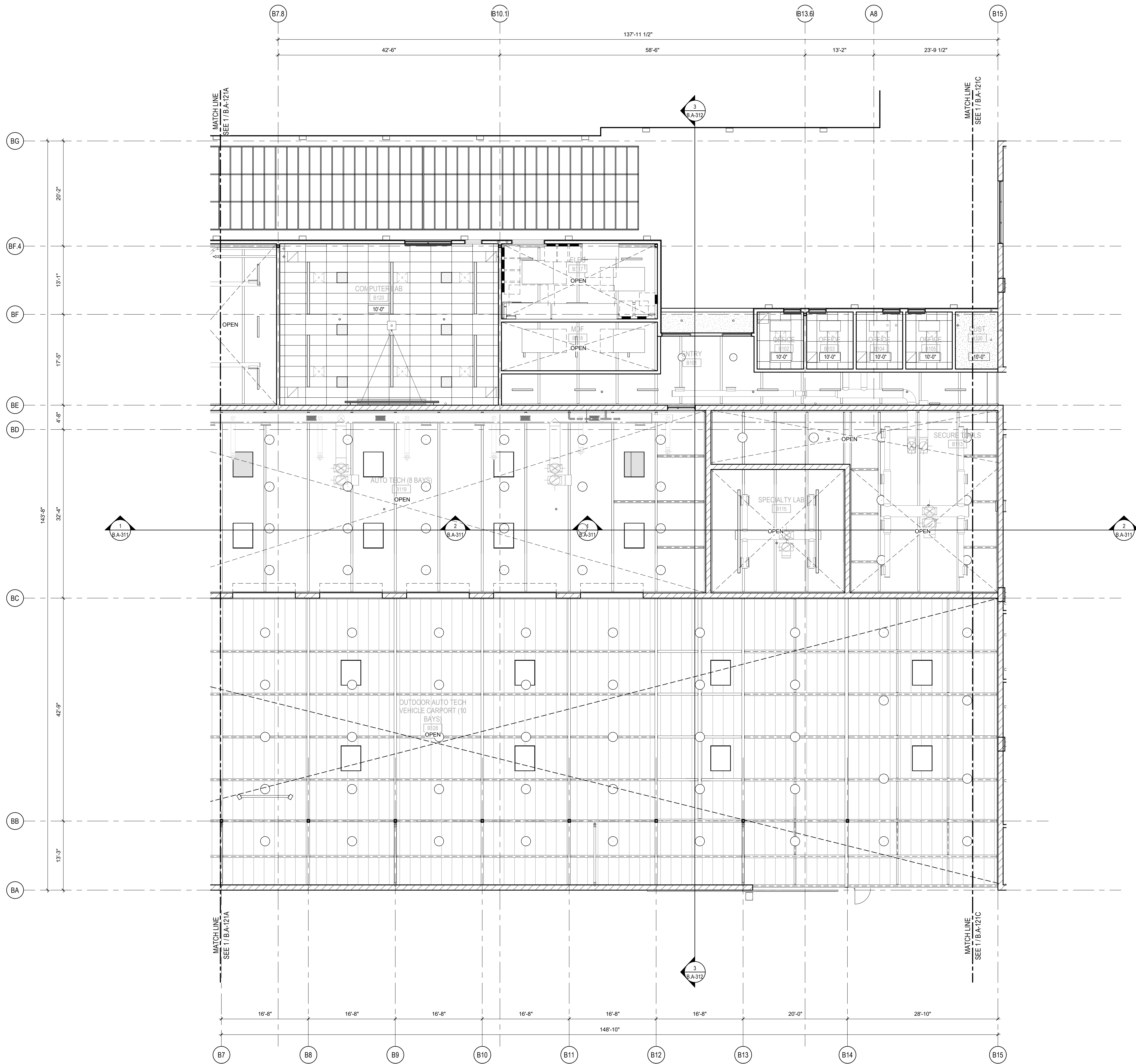
B.A-121A

0. 1/4" = 1'

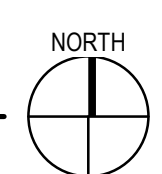
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1 BUILDING B - PARTIAL CEILING PLAN - AREA B
SCALE 1/8" = 1'-0"



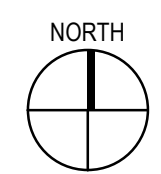
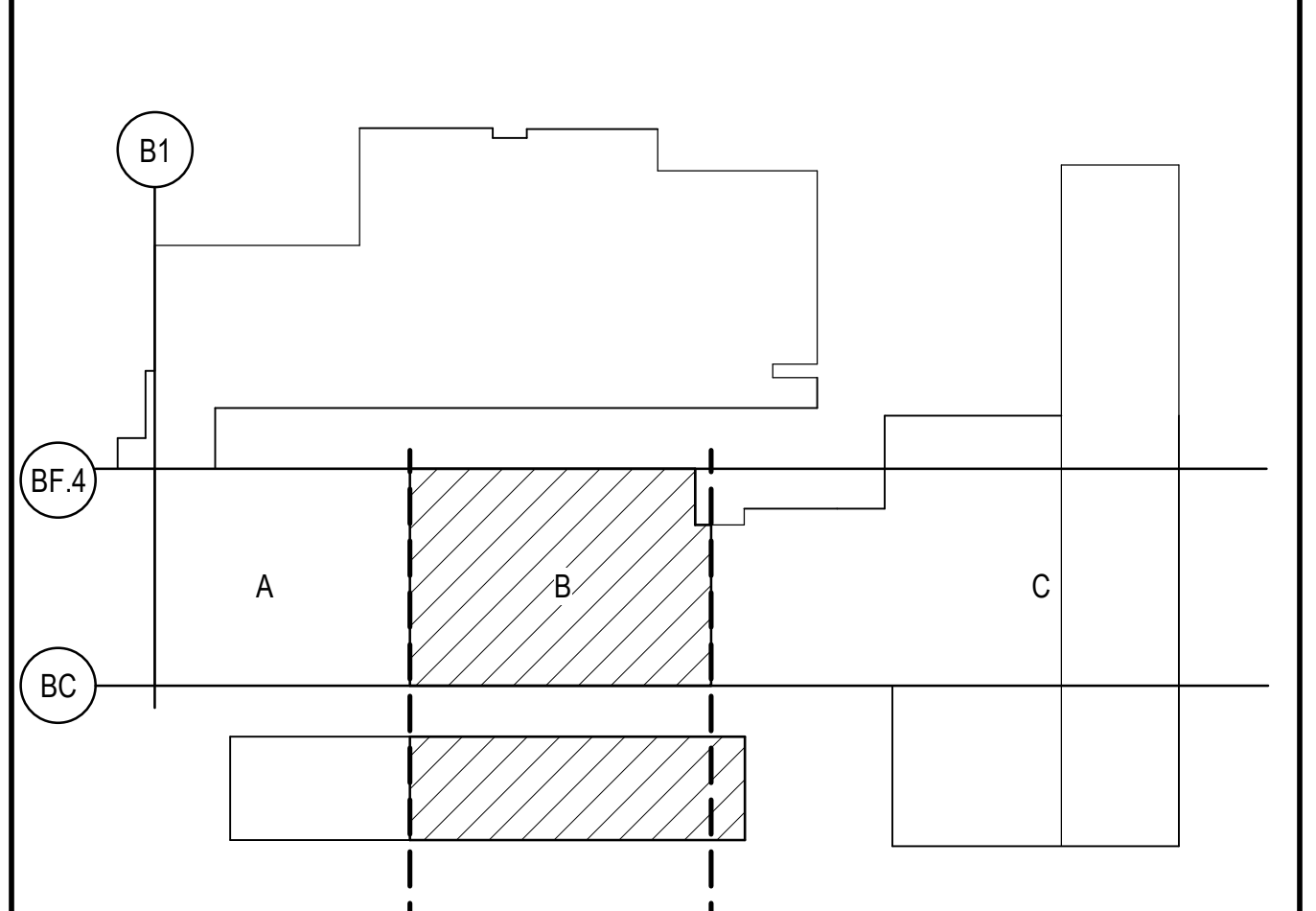
GENERAL NOTES

1. SEE FINISH SCHEDULE FOR CEILING FINISHES
2. SEE ELECTRICAL DWGS FOR LIGHT FIXTURES
3. ALL DIMENSIONS TO CENTERLINE OF LIGHT FIXTURES
4. CENTER FIXTURES BOTH WAYS IN DRYWALL SOFFITS UON

CEILING PLAN LEGEND

- 10'-0" CEILING HEIGHT, AFF
- GYPSON BOARD CEILING SYSTEM, FOR TYPICAL FRAMING DETAILS
SEE SHEETS A-535 AND A-536
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
MOISTURE RESISTANT GYPSON BOARD TO BE USED AT WET LOCATIONS, TYP
- OPEN OPEN TO ABOVE, WHERE OCCURS. PAINT UNDERSIDE OF STRUCTURE
- CL1: 2' x 4' SUSPENDED CEILING GRID
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
- CL2: 2' x 2' SUSPENDED CEILING GRID
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
- CL4: 1' x 8' W/ BACKER, 8 BLADES WITH 6" ACOUSTICAL BATT INSULATION ABOVE GYP CEILING
B.O.D. MFR: ARMSTRONG, WOODWORKS CHANNELED PLANK
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
- LC-1: LINEAR METAL CEILING SYSTEM
BASIS OF DESIGN MFR: ENDURE WOODGRAIN 3 BOARD 900 WITH INTEGRATED SPACERS
COLOR: TBD
- 2x2 SQUARE SOLAR TUBE SYSTEM
- CEILING ACCESS HATCH, SEE 19 OR 20/A-563
- 2x4 LIGHT FIXTURE, SEE ELECTRICAL DWGS
- 2x2 LIGHT FIXTURE, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 1, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 2, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 3, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 4, SEE ELECTRICAL DWGS
- CEILING MOUNTED PROJECTOR, SEE ELECTRICAL AND TELECOM DWGS
- WINDOW COVERING, SEE SHEET AG112
- CEILING MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION
- WALL MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION
- ELECTRICAL POWER REEL
- MECHANICAL SUPPLY DIFFUSER, SEE MECHANICAL DWGS
- MECHANICAL EXHAUST REGISTER, SEE MECHANICAL DWGS
- MECHANICAL RETURN REGISTER, SEE MECHANICAL DWGS
- EXIT SIGNAGE

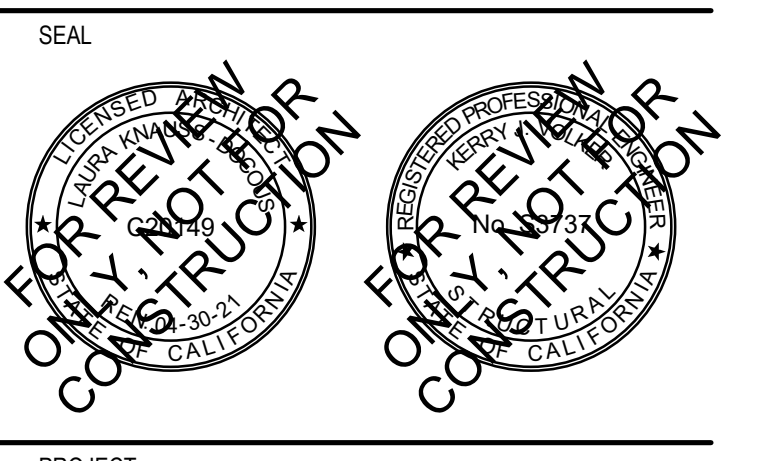
KEY PLAN



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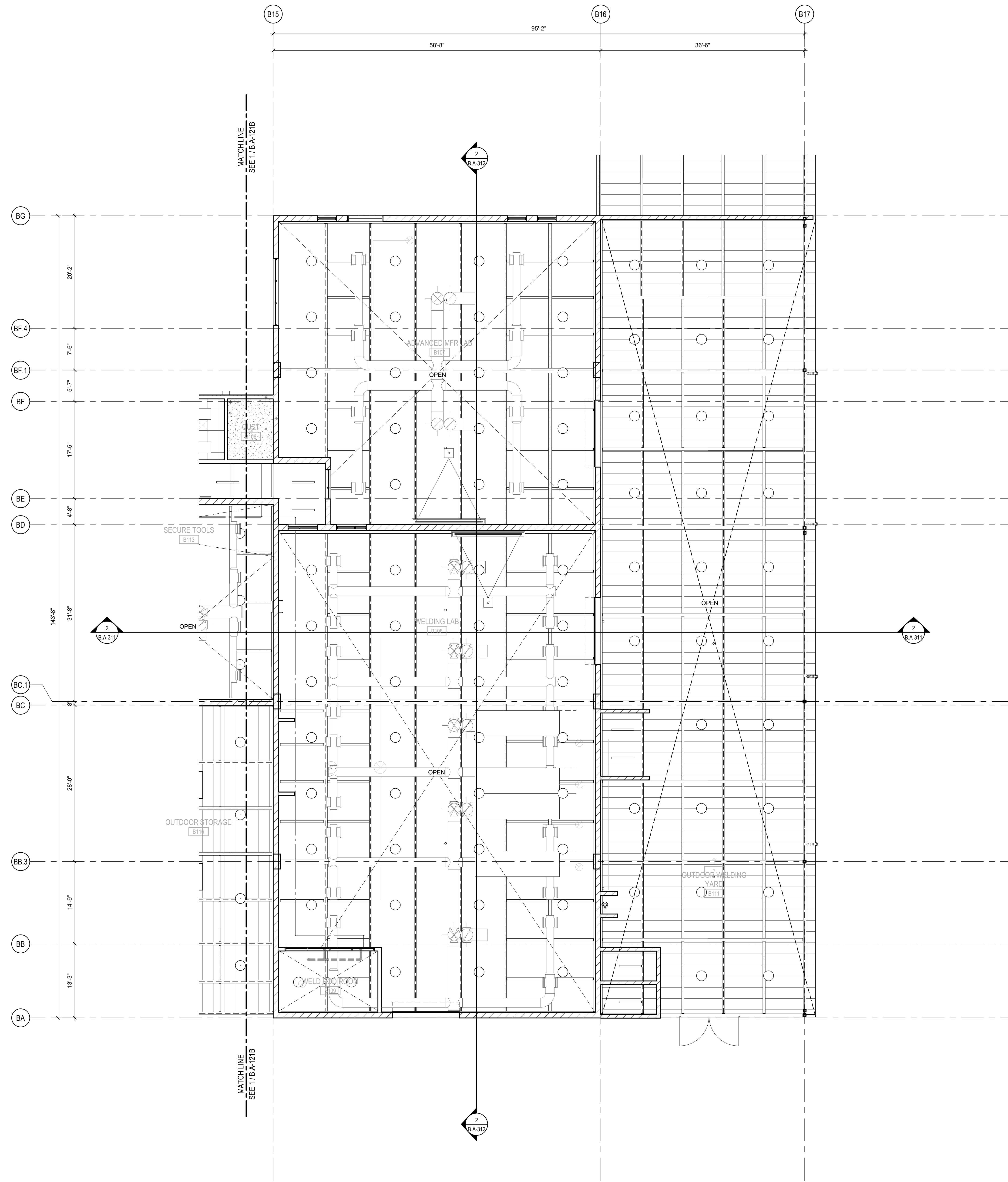
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TITLE
**BUILDING B - PARTIAL
CEILING PLAN - AREA B**

SHEET
B.A-121B

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1 BUILDING B - PARTIAL CEILING PLAN - AREA C
SCALE 1/8" = 1'-0"



GENERAL NOTES

1. SEE FINISH SCHEDULE FOR CEILING FINISHES
2. SEE ELECTRICAL DWGS FOR LIGHT FIXTURES
3. ALL DIMENSIONS TO CENTERLINE OF LIGHT FIXTURES
4. CENTER FIXTURES BOTH WAYS IN DRYWALL SOFFITS UON

CEILING PLAN LEGEND

10'-0" CEILING HEIGHT, AFF

GYPSON BOARD CEILING SYSTEM, FOR TYPICAL FRAMING DETAILS
SEE SHEETS A-535 AND A-536
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
MOISTURE RESISTANT GYPSON BOARD TO BE USED AT WET LOCATIONS, TYP

OPEN TO ABOVE, WHERE OCCURS. PAINT UNDERSIDE OF STRUCTURE

CL1: 2' x 4' SUSPENDED CEILING GRID
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR

CL2: 2' x 2' SUSPENDED CEILING GRID
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR

CL4: 1' x 8' W/ BACKER, 8 BLADES WITH 6" ACOUSTICAL BATT INSULATION ABOVE GYP CEILING
B.O.D. MFR: ARMSTRONG, WOODWORKS CHANNELED PLANK
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR

LC-1: LINEAR METAL CEILING SYSTEM
BASIS OF DESIGN MFR: ENDURE WOODGRAIN 3 BOARD 900 WITH INTEGRATED SPACERS
COLOR: TBD

2x2 SQUARE SOLAR TUBE SYSTEM

CEILING ACCESS HATCH, SEE 19 OR 20/A-563

2x4 LIGHT FIXTURE, SEE ELECTRICAL DWGS

2x2 LIGHT FIXTURE, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 1, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 2, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 3, SEE ELECTRICAL DWGS

LINEAR LIGHT FIXTURE TYPE 4, SEE ELECTRICAL DWGS

CEILING MOUNTED PROJECTOR, SEE ELECTRICAL AND TELECOM DWGS

WINDOW COVERING, SEE SHEET AG112

CEILING MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION

WALL MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION

ELECTRICAL POWER REEL

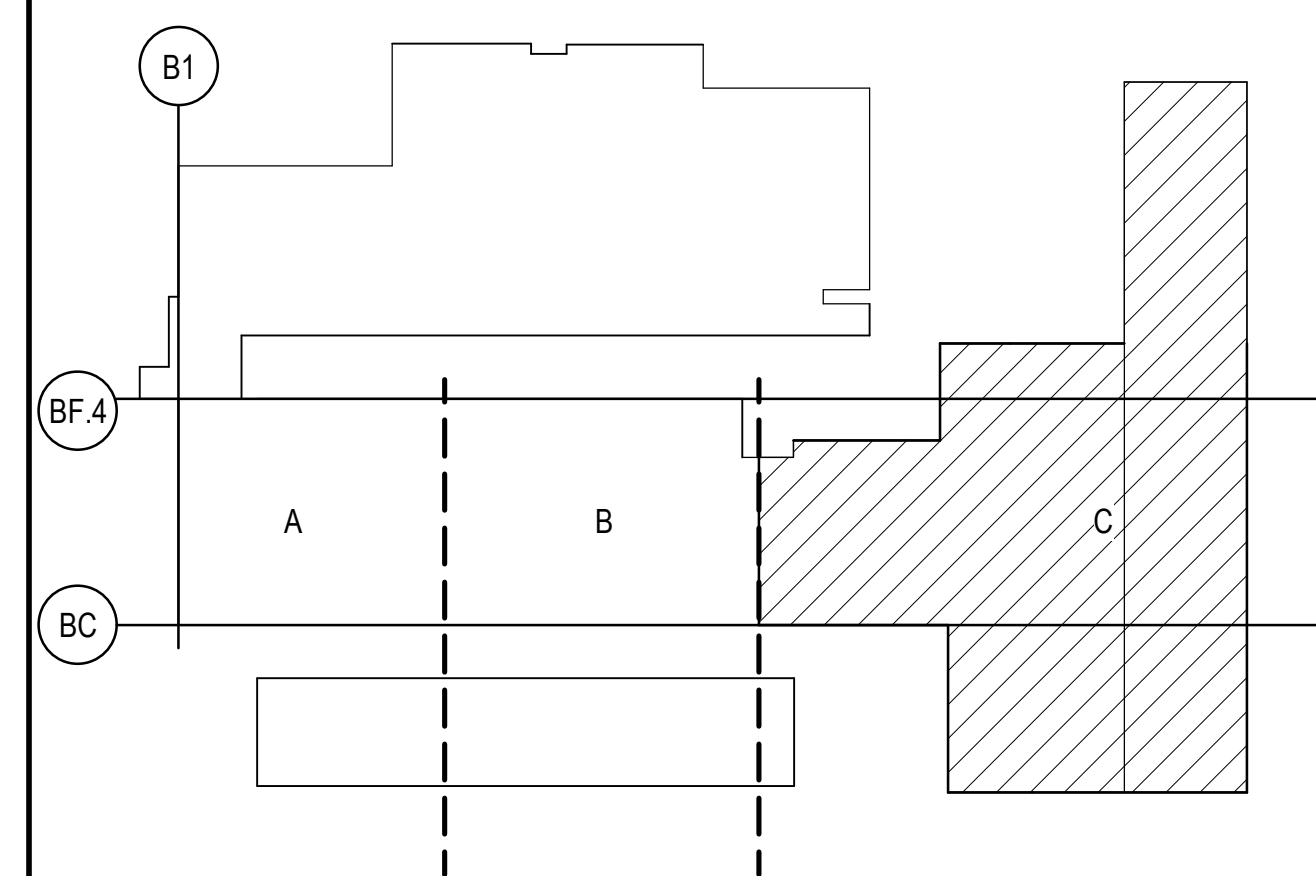
MECHANICAL SUPPLY DIFFUSER, SEE MECHANICAL DWGS

MECHANICAL EXHAUST REGISTER, SEE MECHANICAL DWGS

MECHANICAL RETURN REGISTER, SEE MECHANICAL DWGS

EXIT SIGNAGE

KEY PLAN



FILE NO. ?XX-XXXX?
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TITLE
**BUILDING B - PARTIAL
CEILING PLAN - AREA C**

SHEET
B.A-121C

0 1/4" = 1'-0"

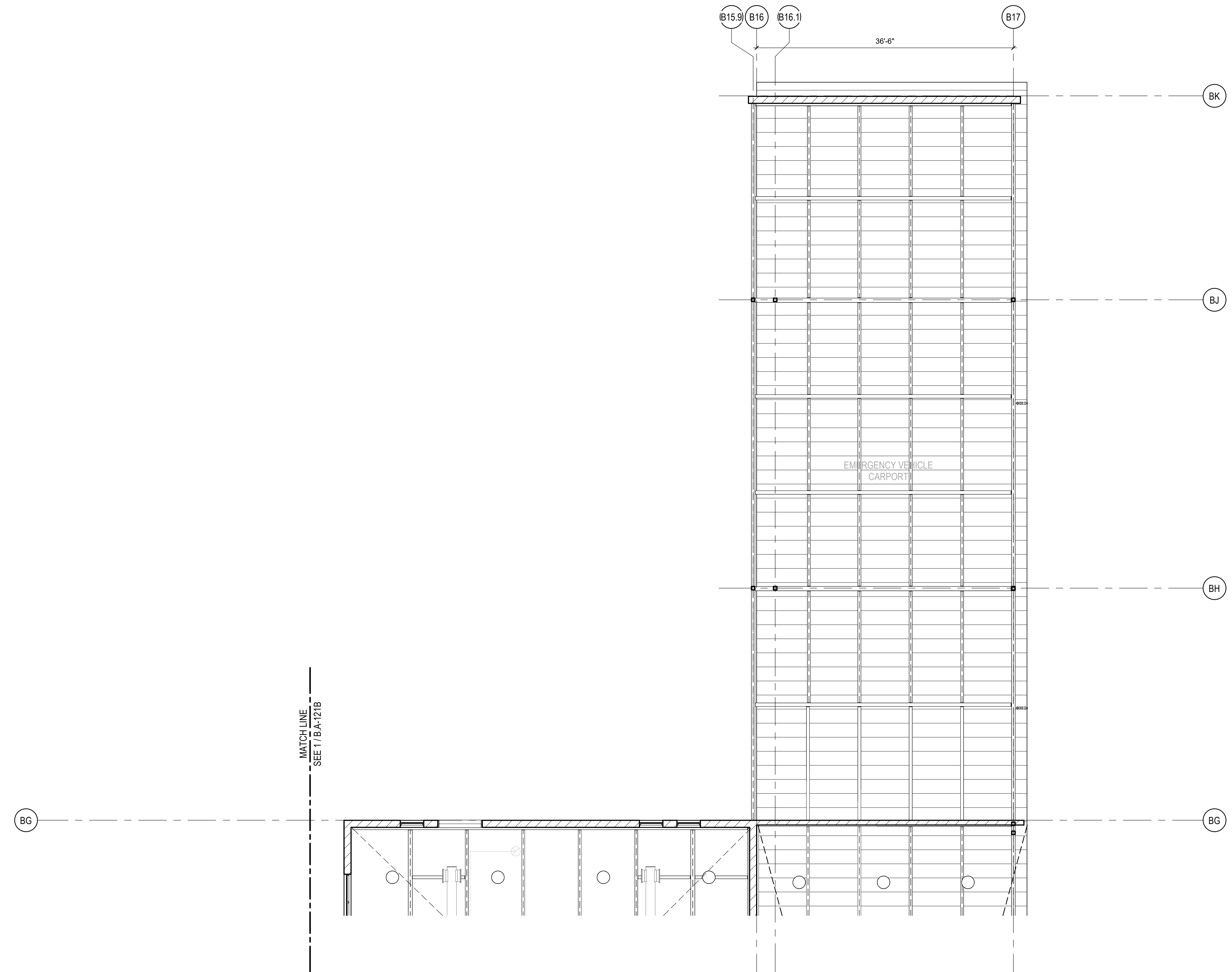
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1 BUILDING B - PARTIAL CEILING PLAN - CARPORT
SCALE: 1/8" = 1'-0"



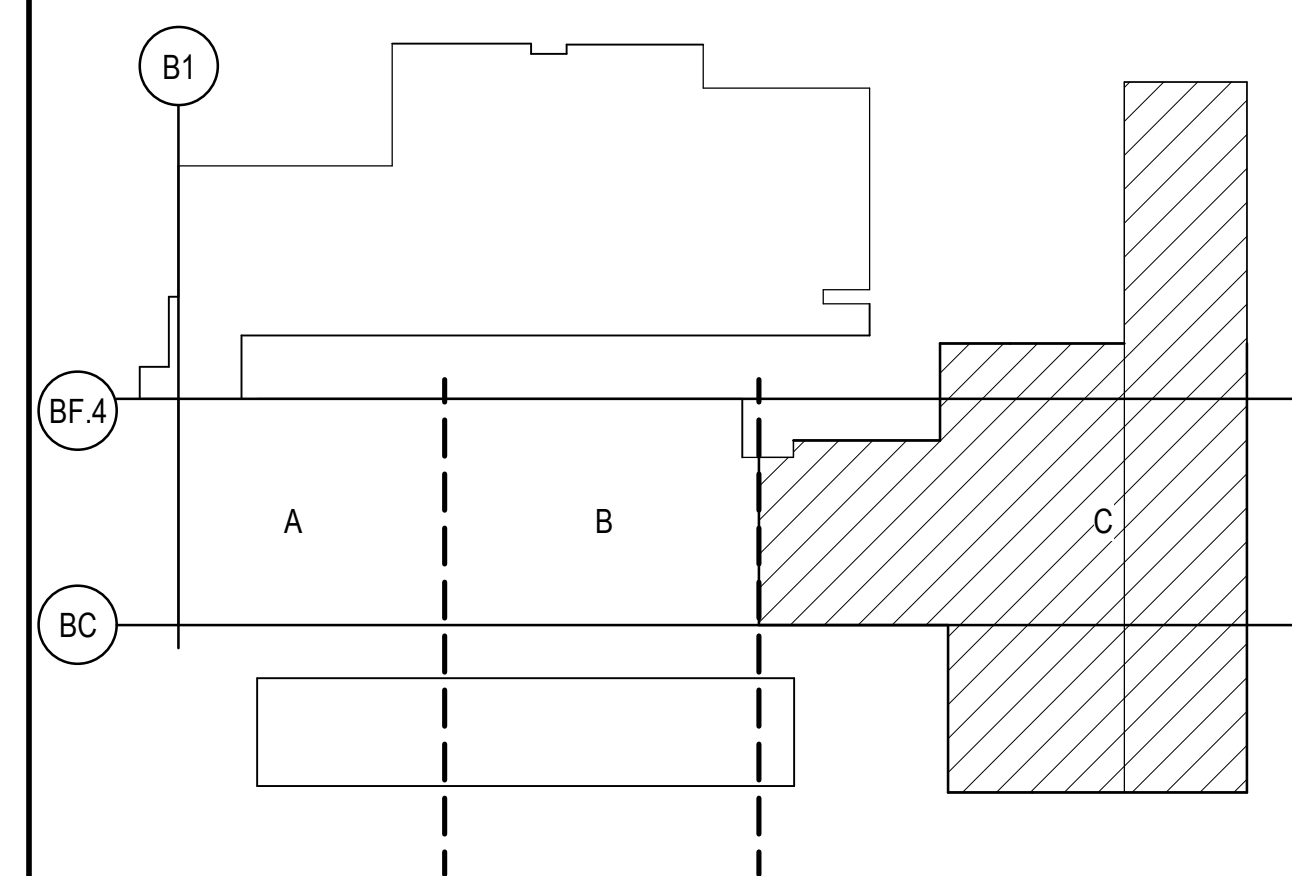
GENERAL NOTES

1. SEE FINISH SCHEDULE FOR CEILING FINISHES
2. SEE ELECTRICAL DWGS FOR LIGHT FIXTURES
3. ALL DIMENSIONS TO CENTERLINE OF LIGHT FIXTURES
4. CENTER FIXTURES BOTH WAYS IN DRYWALL SOFFITS UON

CEILING PLAN LEGEND

- 10'-0" CEILING HEIGHT, AFF
- GYPSUM BOARD CEILING SYSTEM, FOR TYPICAL FRAMING DETAILS
SEE SHEETS A-535 AND A-536
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MOISTURE RESISTANT GYPSUM BOARD TO BE USED AT WET LOCATIONS, TYP
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OPEN TO ABOVE, WHERE OCCURS. PAINT UNDERSIDE OF STRUCTURE
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B.O.D. MFR: ARMSTRONG, WOODWORKS CHanneLED PLANK
SEE INTERIOR FINISH SCHEDULE FOR FINISH AND COLOR
- LC-1: LINEAR METAL CEILING SYSTEM
BASIS OF DESIGN MFR: ENDURE WOODGRAIN 3 BOARD 900 WITH INTEGRATED SPACERS
COLOR: TBD
- 2x2 SQUARE SOLAR TUBE SYSTEM
- CEILING ACCESS HATCH, SEE 19 OR 20/A-563
- 2x4 LIGHT FIXTURE, SEE ELECTRICAL DWGS
- 2x2 LIGHT FIXTURE, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 1, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 2, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 3, SEE ELECTRICAL DWGS
- LINEAR LIGHT FIXTURE TYPE 4, SEE ELECTRICAL DWGS
- CEILING MOUNTED PROJECTOR, SEE ELECTRICAL AND TELECOM DWGS
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- WALL MOUNTED SPEAKER, SEE DATA SHEETS FOR MORE INFORMATION
- ELECTRICAL POWER REEL
- MECHANICAL SUPPLY DIFFUSER, SEE MECHANICAL DWGS
- MECHANICAL EXHAUST REGISTER, SEE MECHANICAL DWGS
- MECHANICAL RETURN REGISTER, SEE MECHANICAL DWGS
- EXIT SIGNAGE

KEY PLAN



FILE NO. ?XX-XXXX?

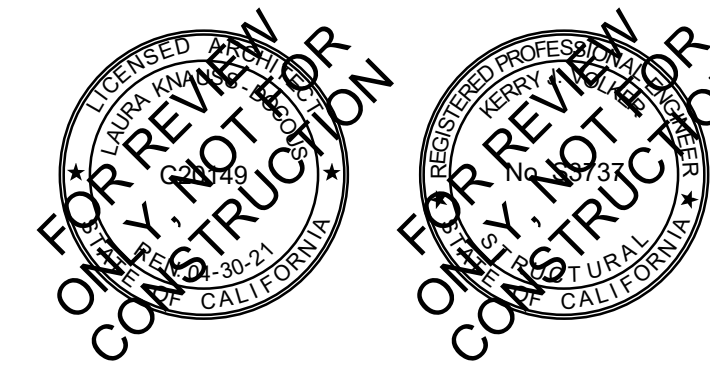
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TITLE
**BUILDING B - PARTIAL
CEILING PLAN -
CARPORT**

SHEET
B.A-121D

0 1/4" 1/2" 1"

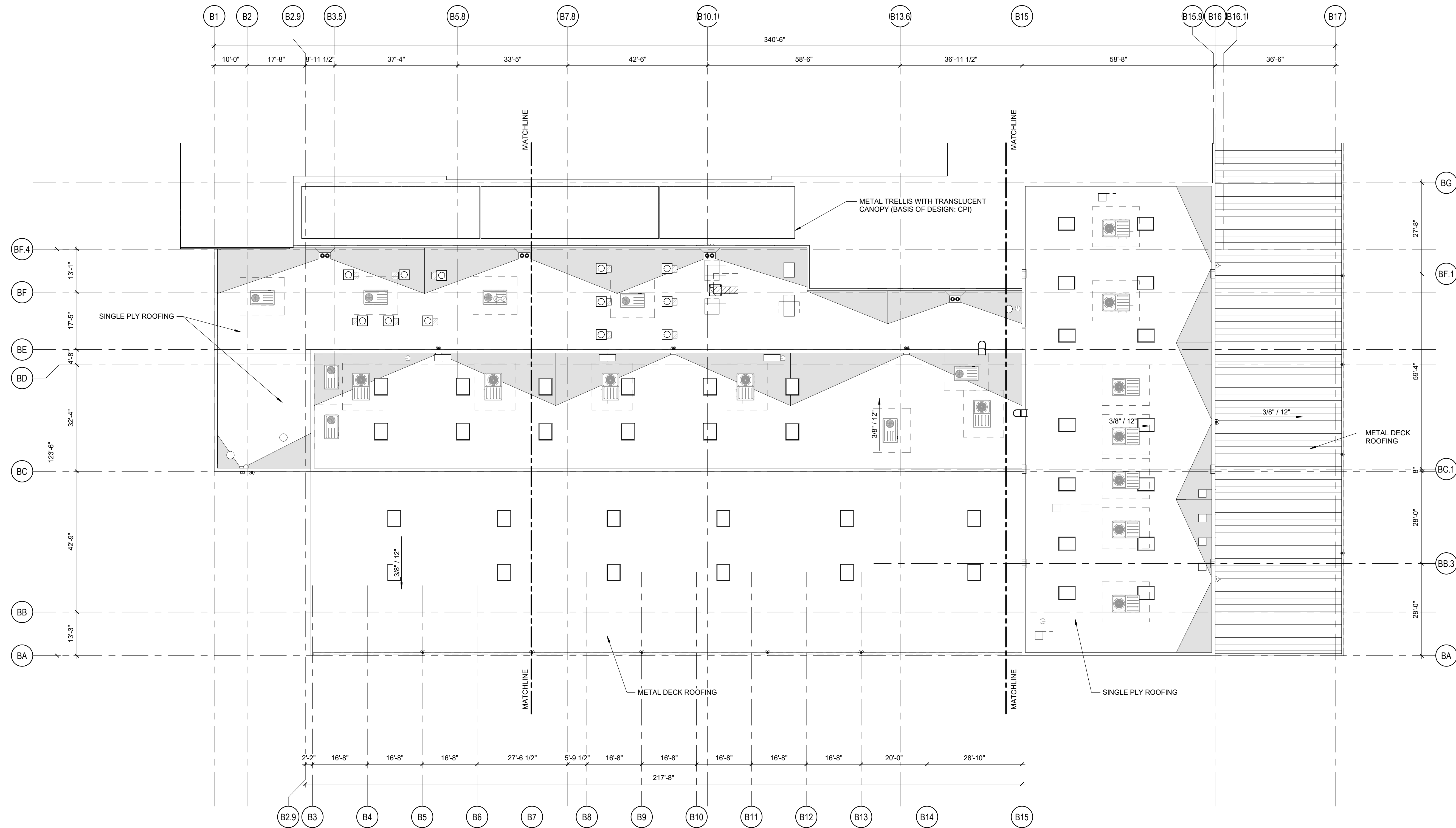
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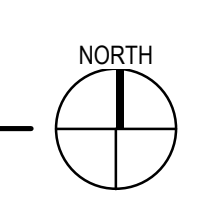
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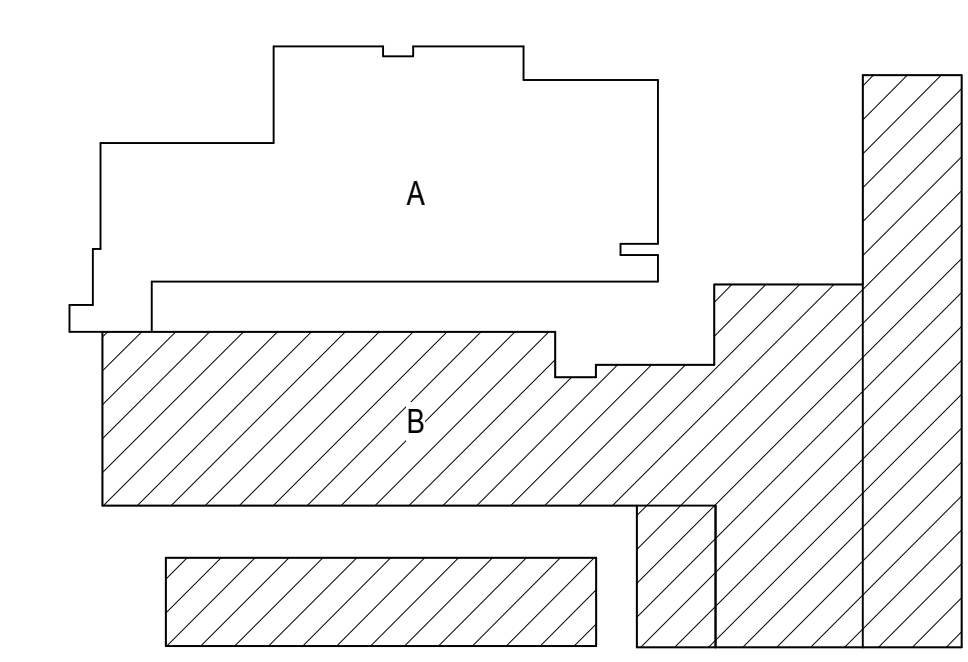
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1 BUILDING B - OVERALL ROOF PLAN
SCALE 1/16" = 1'-0"

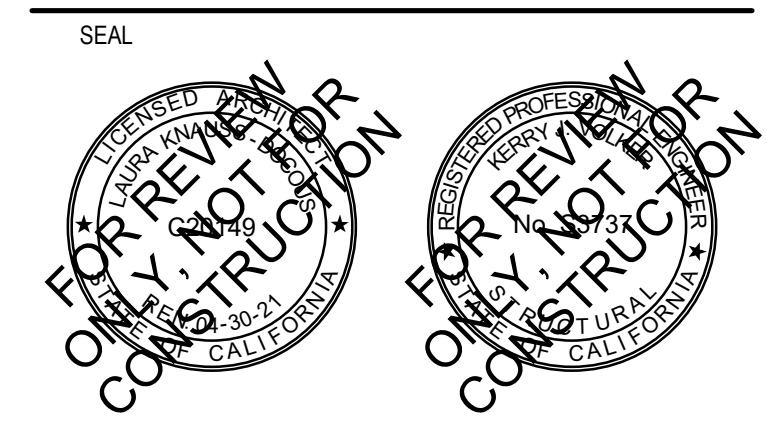


KEY PLAN



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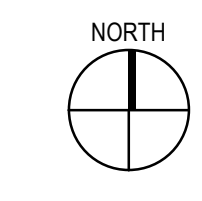
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TITLE
**BUILDING B - OVERALL
ROOF PLAN**

SHEET
B.A-132



0 1/4" = 1'

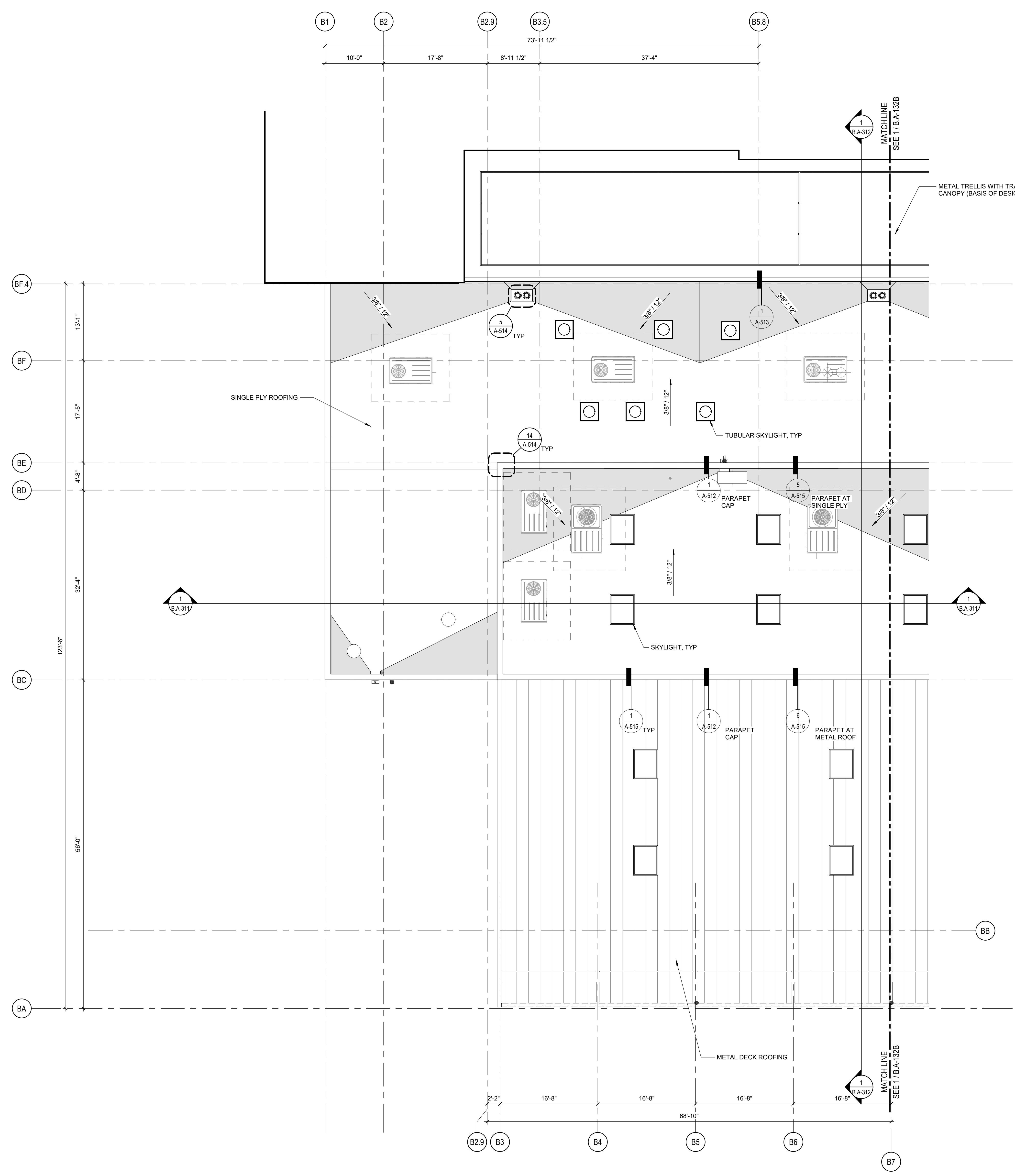
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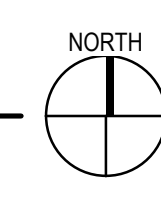
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1 BUILDING B - PARTIAL ROOF PLAN - AREA A
SCALE: 1/8" = 1'-0"



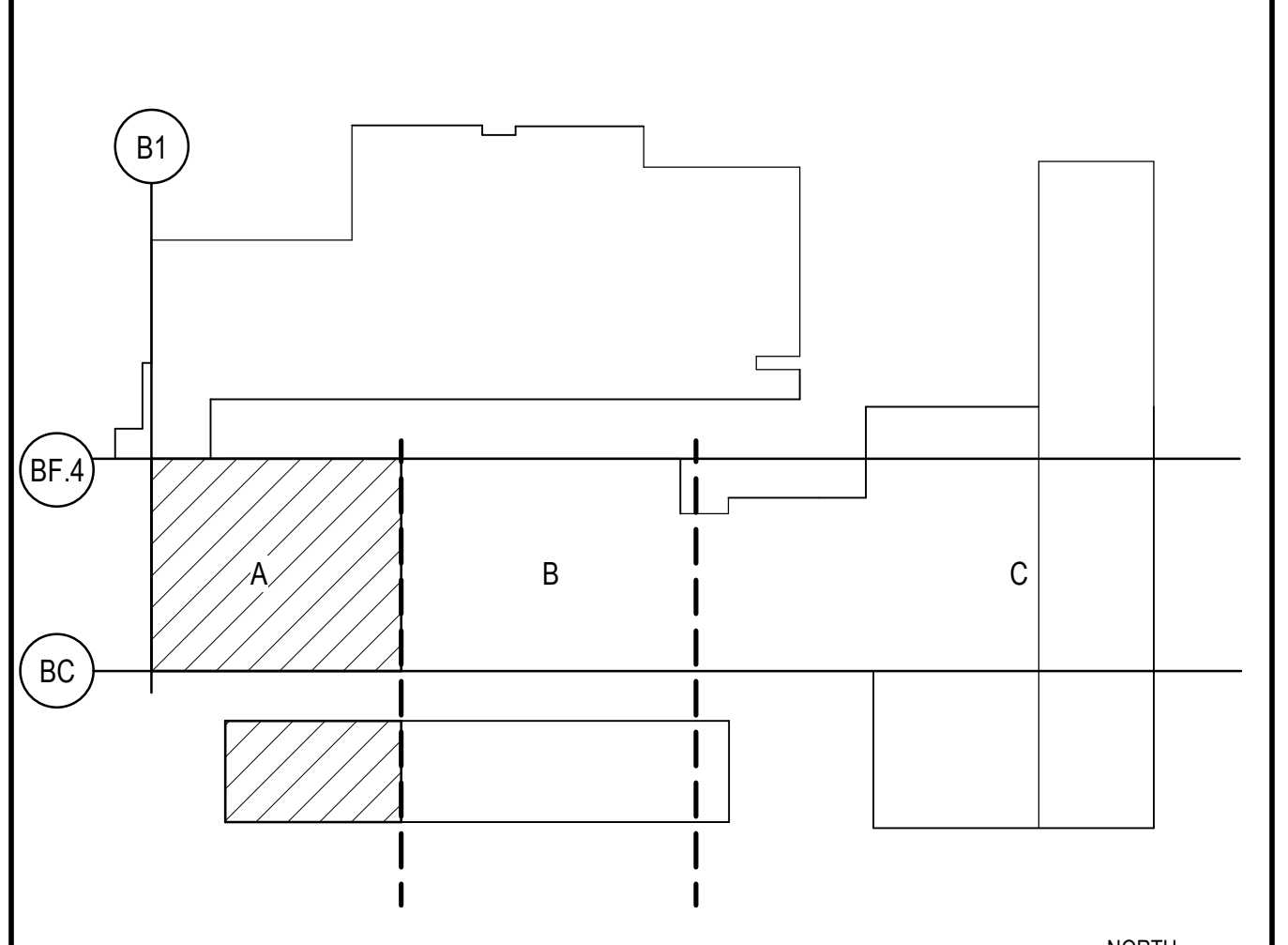
GENERAL NOTES

1. MAJOR PENETRATIONS TO BE 24" MIN. FROM EACH OTHER AND FROM PARAPET WALLS
2. FOR TYP BOOT FLASHING AT SINGLE PLY ROOFING ASSEMBLY - SEE

ROOF PLAN LEGEND

- ROOF DRAIN AND OVERFLOW
CONNECT TO CIVIL BELOW GRADE. OVERFLOW DRAIN PIPE TO DAYLIGHT PER EXTERIOR ELEVATIONS SEE DET
- SLOPE TO DRAIN - 3/8"=12"
- TAPERED CRICKET ASSEMBLY - SLOPE 3/8"=12"
- SINGLE-PLY WALKWAY PADS
- PHOTOVOLTAIC PANELS. SEE ELECTRICAL DWGS
- SKYLIGHT
- FALL PROTECTION TIE-OFF ASSEMBLY AT 30'-0" OC MAX LOCATED WITHIN 6'-0" MAX FROM INSIDE FACE OF PARAPET SEE DETAIL
- RF-1: TPO ROOF ASSEMBLY SEE:
- MS-1: CORRUGATED METAL PANEL MECHANICAL SCREEN

KEY PLAN



FILE NO. ?XX-XXXX?
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 LIVERMORE, CA 94551

CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT	
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TITLE
**BUILDING B - PARTIAL
 ROOF PLAN - AREA A**

SHEET
B.A-132A

0. 1/4" = 1' - 0"

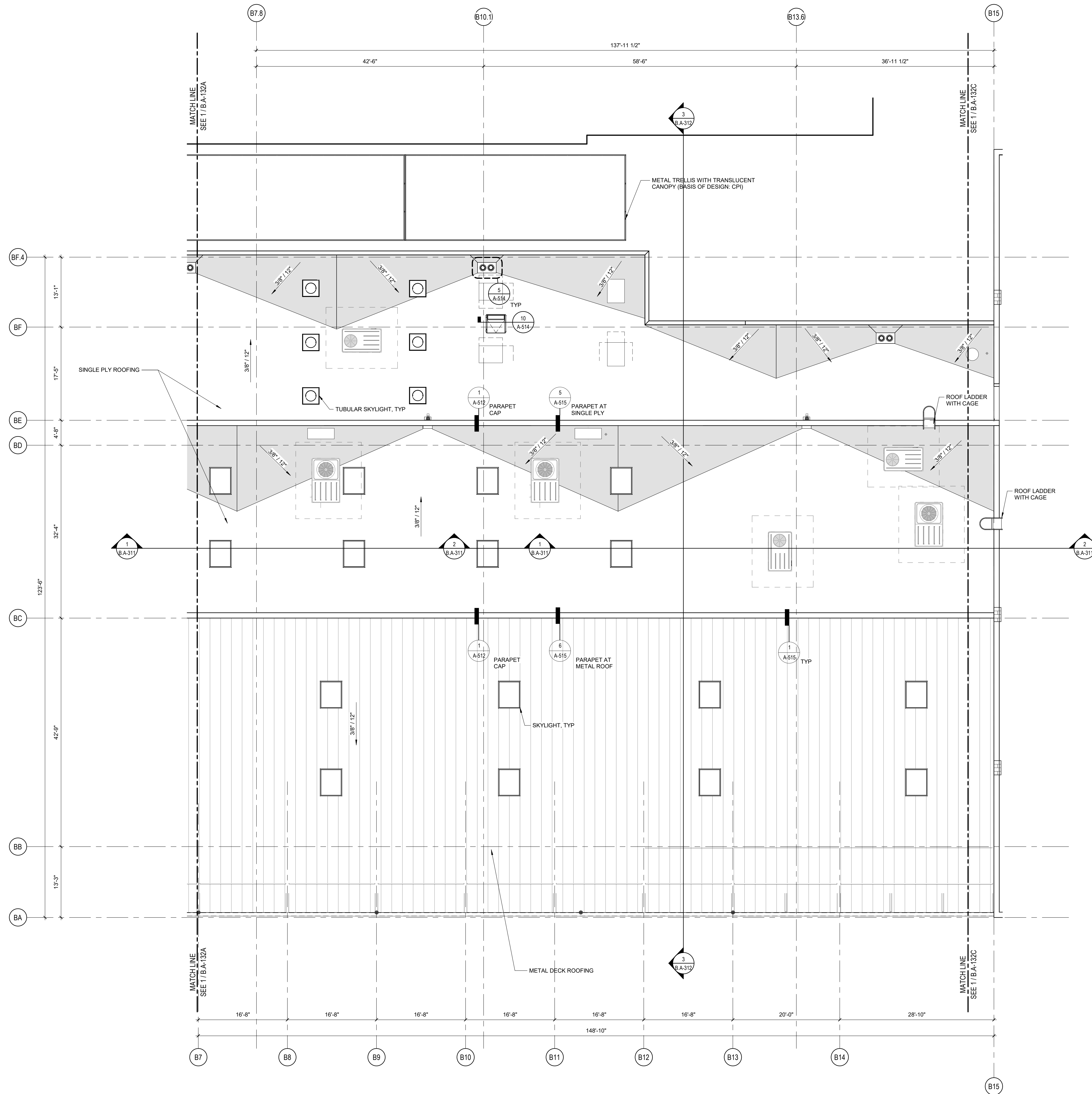
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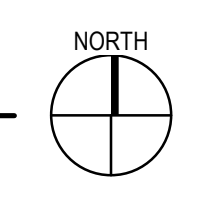
B

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1 BUILDING B - PARTIAL ROOF PLAN - AREA B
SCALE 1/8" = 1'-0"



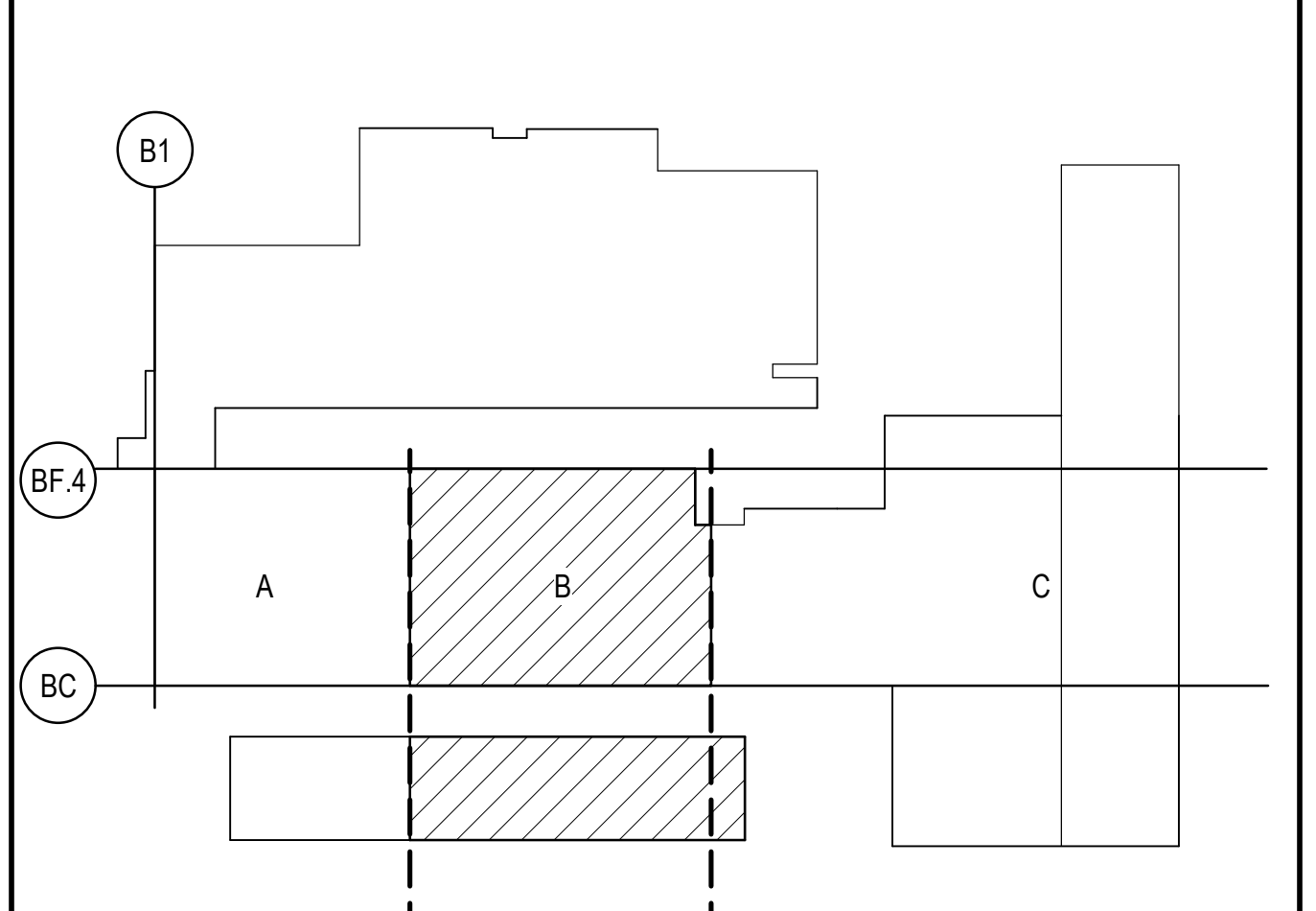
GENERAL NOTES

1. MAJOR PENETRATIONS TO BE 24" MIN. FROM EACH OTHER AND FROM PARAPET WALLS
2. FOR TYP BOOT FLASHING AT SINGLE PLY ROOFING ASSEMBLY - SEE

ROOF PLAN LEGEND

- ROOF DRAIN AND OVERFLOW
CONNECT TO CIVIL BELOW GRADE. OVERFLOW DRAIN PIPE TO DAYLIGHT PER EXTERIOR ELEVATIONS SEE DET
- SLOPE TO DRAIN - 3/8" / 12"
- TAPERED CRICKET ASSEMBLY - SLOPE 3/8" / 12"
- SINGLE-PLY WALKWAY PADS
- PHOTOVOLTAIC PANELS. SEE ELECTRICAL DWGS
- SKYLIGHT
- FALL PROTECTION TIE-OFF ASSEMBLY AT 30'-0" OC MAX LOCATED WITHIN 6'-0" MAX FROM INSIDE FACE OF PARAPET SEE DETAIL
- RF-1: TPO ROOF ASSEMBLY SEE:
- MS-1: CORRUGATED METAL PANEL MECHANICAL SCREEN

KEY PLAN



FILE NO. ?XX-XXXX?
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CLIENT
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COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

ISSUED

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT

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TITLE
**BUILDING B - PARTIAL
ROOF PLAN - AREA B**

SHEET
B.A-132B

0 1/4" = 1'

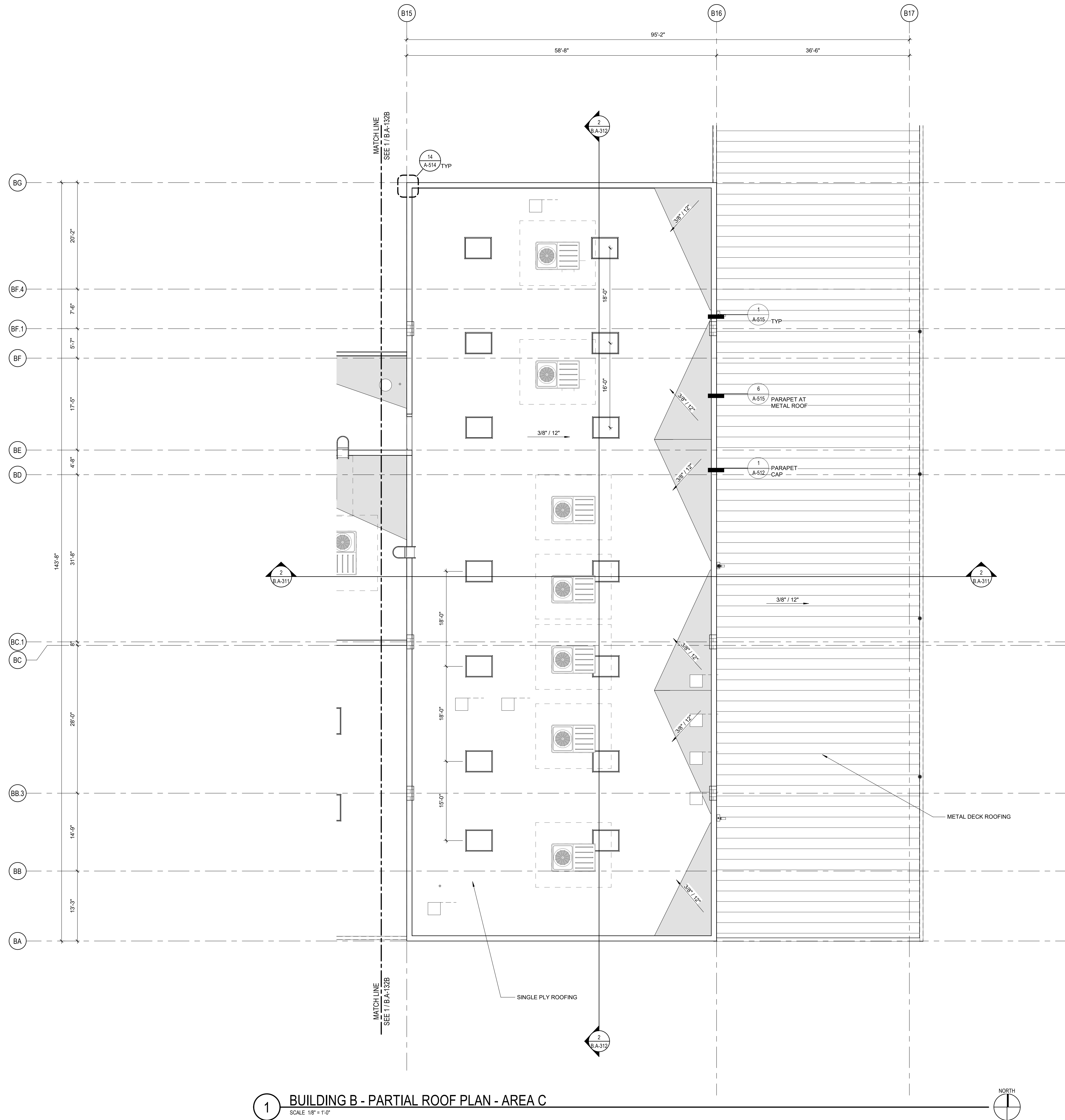
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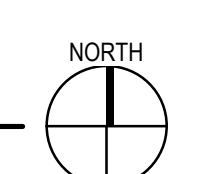
B

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1 BUILDING B - PARTIAL ROOF PLAN - AREA C
SCALE 1/8" = 1'-0"



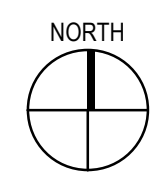
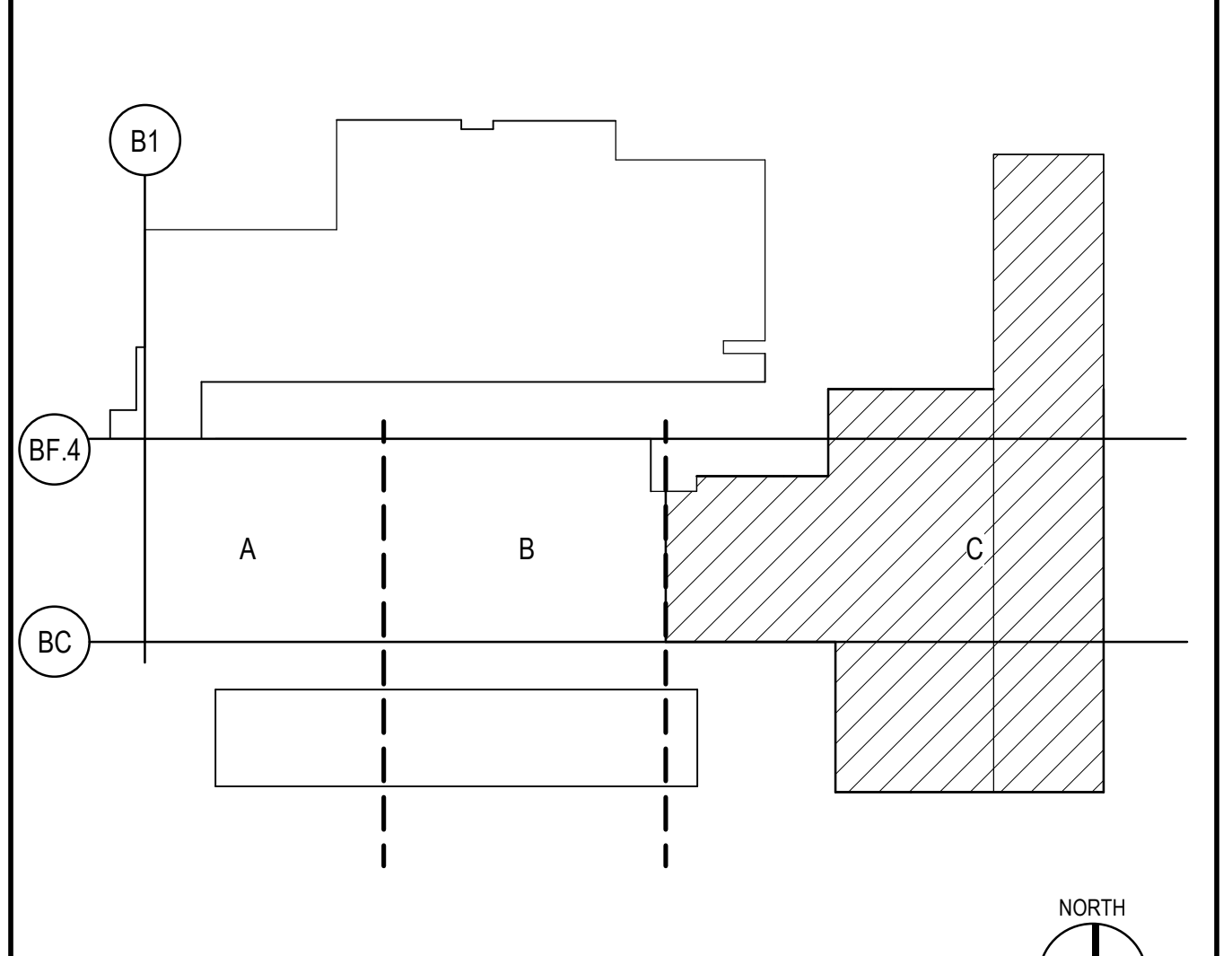
GENERAL NOTES

1. MAJOR PENETRATIONS TO BE 24" MIN. FROM EACH OTHER AND FROM PARAPET WALLS
2. FOR TYP BOOT FLASHING AT SINGLE PLY ROOFING ASSEMBLY - SEE

ROOF PLAN LEGEND

- ROOF DRAIN AND OVERFLOW
CONNECT TO CIVIL BELOW GRADE. OVERFLOW DRAIN PIPE TO DAYLIGHT PER EXTERIOR ELEVATIONS SEE DET
- SLOPE TO DRAIN - 3/8" / 12"
- TAPERED CRICKET ASSEMBLY - SLOPE 3/8" / 12"
- SINGLE-PLY WALKWAY PADS
- PHOTOVOLTAIC PANELS. SEE ELECTRICAL DWGS
- SKYLIGHT
- FALL PROTECTION TIE-OFF ASSEMBLY AT 30'-0" OC MAX LOCATED WITHIN 6'-0" MAX FROM INSIDE FACE OF PARAPET SEE DETAIL
- RF-1: TPO ROOF ASSEMBLY SEE:
- MS-1: CORRUGATED METAL PANEL MECHANICAL SCREEN

KEY PLAN



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 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

ISSUED	MARK	DATE	DESCRIPTION
		01/10/2020	50% DESIGN DEVELOPMENT

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TITLE
**BUILDING B - PARTIAL
 ROOF PLAN - AREA C**

SHEET
B.A-132C

0 1/4" 1/2" 1"

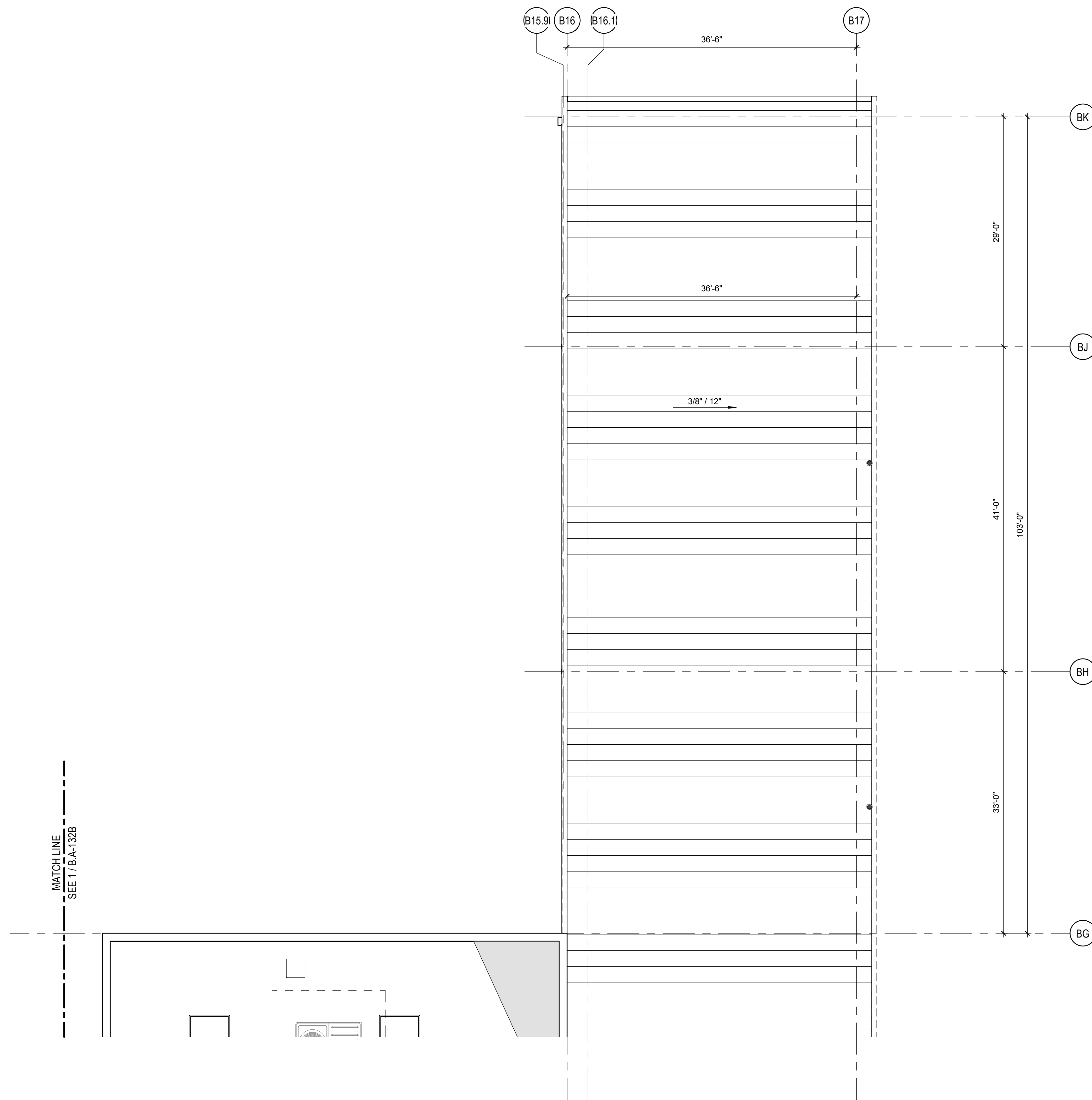
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MATCH LINE
SEE TYP. B.A-132B

1 BUILDING B - PARTIAL ROOF PLAN - CARPORT
SCALE 1/8" = 1'-0"



GENERAL NOTES

- MAJOR PENETRATIONS TO BE 24" MIN. FROM EACH OTHER AND FROM PARAPET WALLS
- FOR TYP BOOT FLASHING AT SINGLE PLY ROOFING ASSEMBLY - SEE

FILE NO. ?XX-XXXX?

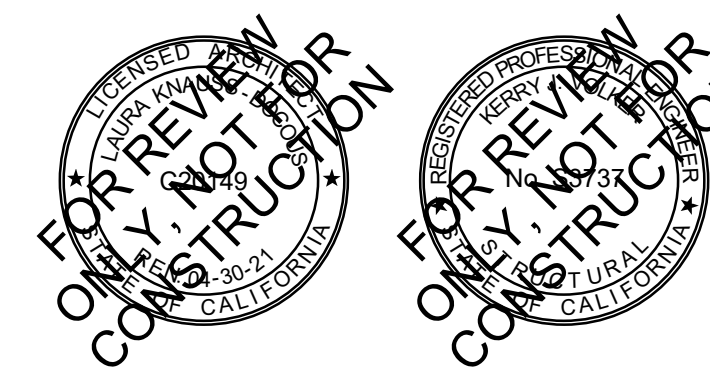
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
?XX-XXX?
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DATE _____

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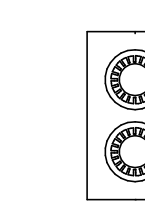
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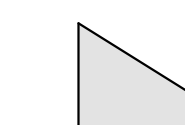
ROOF PLAN LEGEND



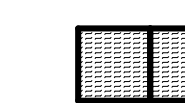
ROOF DRAIN AND OVERFLOW
CONNECT TO CIVIL BELOW GRADE. OVERFLOW DRAIN PIPE TO DAYLIGHT PER EXTERIOR ELEVATIONS SEE DET



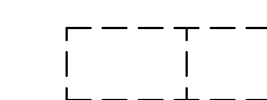
SLOPE TO DRAIN - 3/8" / 12"



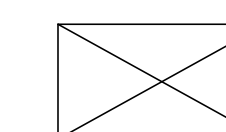
TAPERED CRICKET ASSEMBLY - SLOPE 3/8" / 12"



SINGLE-PLY WALKWAY PADS



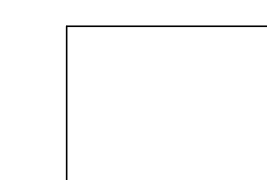
PHOTOVOLTAIC PANELS. SEE ELECTRICAL DWGS



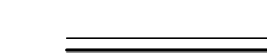
SKYLIGHT



FALL PROTECTION TIE-OFF ASSEMBLY AT 30'-0" OC MAX LOCATED WITHIN 6'-0" MAX FROM INSIDE FACE OF PARAPET SEE DETAIL

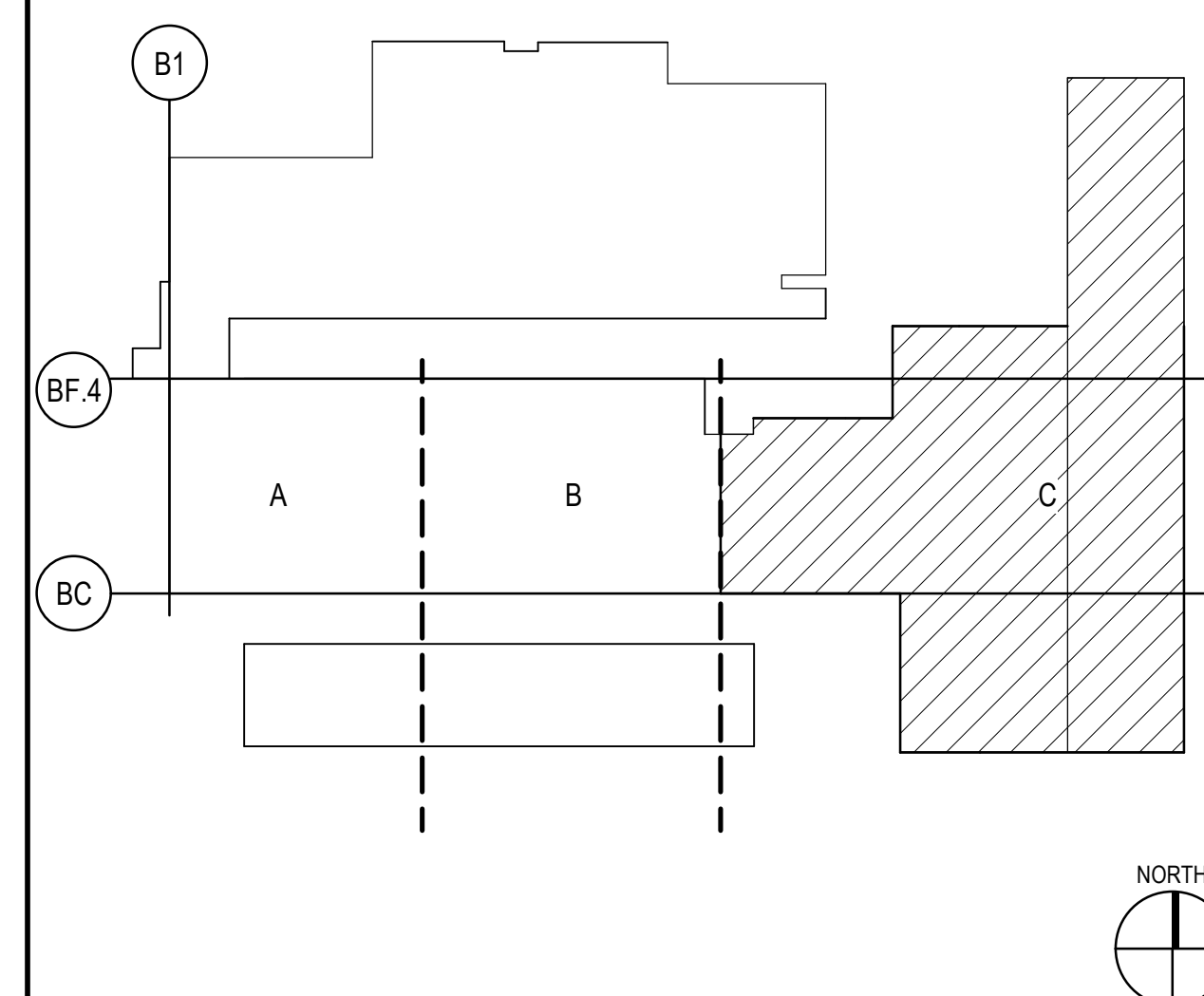


RF-1: TPO ROOF ASSEMBLY SEE:



MS-1: CORRUGATED METAL PANEL MECHANICAL SCREEN

KEY PLAN



TITLE
**BUILDING B - PARTIAL
ROOF PLAN - CARPORT**

SHEET

B.A-132D

0 1/4" 1/2" 1"

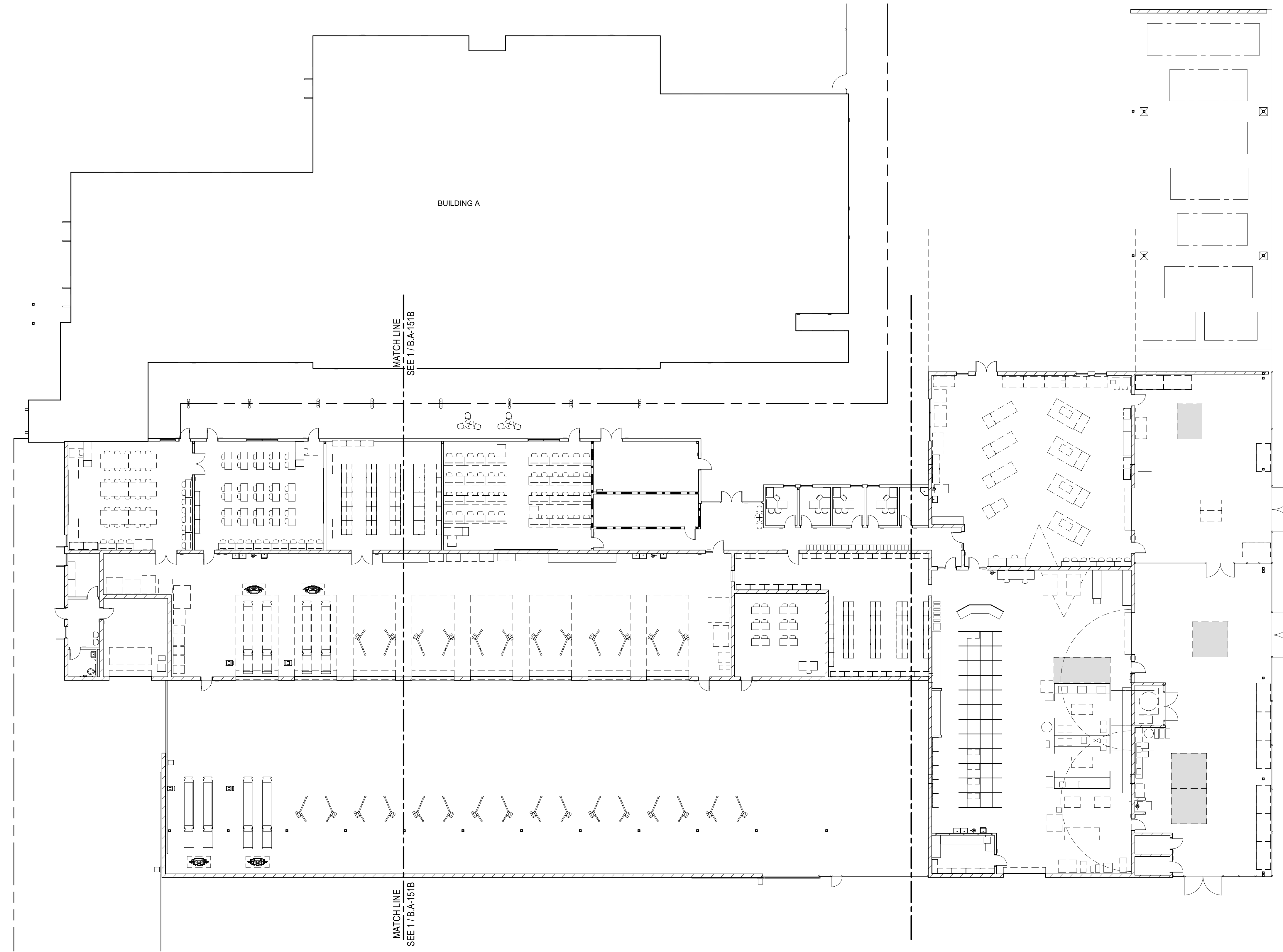
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B

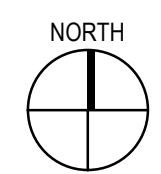
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1 BUILDING B - PARTIAL FURN AND EQUIP PLAN
SCALE 1/16" = 1'-0"

KEY PLAN



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COLLEGE DISTRICT
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DUBLIN, CA 94568

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING B - FURN AND
EQUIP PLAN**

SHEET
B.A-151

0 1/4" = 12'

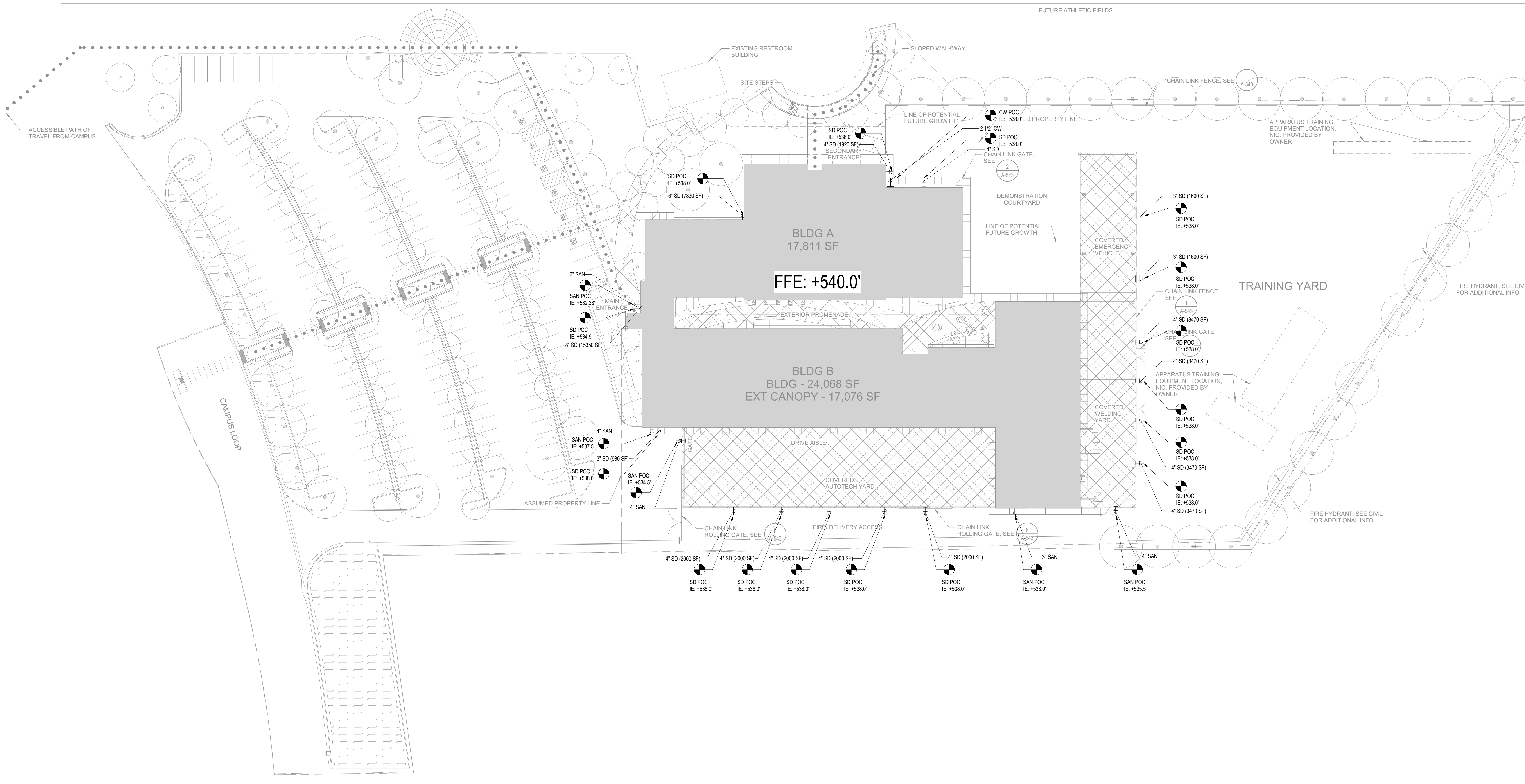
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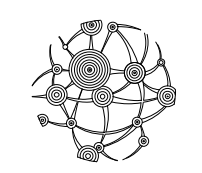
1 SITE PLUMBING PLAN
1" = 30'-0"

FILE NO. ?XX-XXXX?
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
?XX-XXX?
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DATE _____

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INTEGRAL

427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
www.integralgroup.com

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COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?00000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
SITE PLUMBING PLAN

SHEET
P-101

PLUMBING FIXTURE AND CONNECTION SCHEDULE							
TAG	FIXTURE	MINIMUM BRANCH CONNECTION					REMARKS
		SAN	TRAP	V	CW	HW	
WC-1	FLUSHOMETER WATER CLOSET	4"	-	2"	1-1/2"	-	BASIN: "MADERA FLOWISE 3461.001" BY AMERICAN STANDARD, FLOOR MOUNT, VITREOUS CHINA WITH EVERCLEAN; FLUSH VALVE: "ROYAL 111-1.28-SG" BY SLOAN, MANUAL, HARDWIRED, 1.28 GPF, ELEC REQ. 120V, 60HZ
WC-1H	FLUSHOMETER WATER CLOSET (ADA)	4"	-	2"	1-1/2"	-	SAME AS WC-1 EXCEPT INSTALL PER ADA REQUIREMENTS
UR-1	FLUSHOMETER URINAL	2"	-	2"	-	-	BASIN: "HYB-1000" BY SLOAN, WALL MOUNT, HYBRID, WATERLESS, VITREOUS CHINA
UR-1H	FLUSHOMETER URINAL (ADA)	2"	-	2"	-	-	SAME AS UR-1 EXCEPT INSTALL PER ADA REQUIREMENTS
SK-1	KITCHENETTE SINK	2"	1-1/2"	2"	1/2"	1/2"	
SK-2	SIM ROOM SINK	2"	1-1/2"	2"	1/2"	1/2"	
SK-3	TUB SINK	2"	1-1/2"	2"	1/2"	1/2"	
SK-4	HANDWASHING SINK	2"	1-1/2"	2"	1/2"	1/2"	
LAV-1	LAVATORY	2"	1-1/4"	2"	1/2"	1/2"	BASIN: "LUCERNE 0356.137" BY AMERICAN STANDARD, WALL HUNG, SINGLE CENTER HOLE WITH EXTRA RIGHT HAND HOLE FOR SOAP DISPENSER; FAUCET: OPTIMA ETE880 BY SLOAN, HARDWIRED SENSOR FAUCET, 0.35GPM, ELEC REQ. 120V, 60HZ
DF-1	DRINKING FOUNTAIN	2"	1-1/2"	2"	1/2"	-	ELKAY LZWS-EDFPBM117K, BOTTLE FILLER, 115V/60HZ
MS-1	MOP SINK	3"	3"	2"	1/2"	1/2"	BASIN: "WHITEBY K-6710" BY KOHLER; FAUCET: "MODEL 897" BY CHICAGO FAUCETS, 1.5GPM.
EW-1	EMERGENCY EYE WASH	2"	1-1/2"	2"	1"	-	GAURDIAN MODEL G1814, 3 GPM W/ THERMOSTATIC MIXING VALVE G3600 LF
HB-1	HOSE BIBB- WALL	-	-	-	1"	-	WOODFORD MODEL B67, NON-FREEZE WITH INTEGRAL VACUUM BREAKER
HB-2	HOSE BIBB- FLOOR	-	-	-	1"	-	WOODFORD MODEL Y95, NON-FREEZE WITH INTEGRAL VACUUM BREAKER

PLUMBING - DRAIN, CLEANOUT, AND SPECIALTY SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
RD/OD-1	ROOF & OVERFLOW DRAIN	ZURN	Z189	DURA COATED CAST IRON FOR PRIMARY DRAIN AT BOTTOM OF GUTTER, PROVIDE FLAT GRATE INSTALLED 2" ABOVE PRIMARY DRAIN FOR OVERFLOW DRAIN
GD-1	GUTTER DRAIN	ZURN		
DS-1	DOWNSPOUT NOZZLE	ZURN	Z199	ALL NICKLE BRONZE BODY
FD-1	FLOOR DRAIN	ZURN	Z415B	CAST IRON BODY, NICKEL BRONZE STRAINER, HEEL-PROOF GRATE MAXIMUM 1/4" GRATE OPENING W/TRAP PRIMER
FD-2	FLOOR DRAIN	ZURN	Z511	DURA COATED CAST IRON BODY AND HEAVY-DUTY GRATE W/TRAP PRIMER
FS-1	FLOOR SINK	ZURN	Z1900	COATED WANTI-SPLASH DOME STRAINER, 6" DEEP, HALF GRATE
FCO-1	FLOOR CLEANOUT	ZURN	Z1400	CAST IRON CLEANOUT
GCO	GRADE CLEANOUT	ZURN	Z1400	CAST IRON CLEANOUT WITH TRACTOR COVER
HD-1	HUB DRAIN	-	-	-
TD-1	TRENCH DRAIN	ZURN		DUCTILE IRON GRATE, CHANNEL WITH PRE-SLOPED BOTTOM, NO-HUB BOTTOM OUTLET AND CLAMPING COLLAR
TP-1	TRAP PRIMER	MFAB	MR500	BRASS BODY WITH INTEGRAL VACUUM BREAKER, ACTIVATE W/3 PSI DROP.
TP-2	TRAP PRIMER (ELECTRONIC)	MIFAB	MI-100-5	120V/1PH, FLUSH MOUNT
TP-3	TRAP PRIMER (ELECTRONIC)	MIFAB	MI-100-10	120V/1PH, FLUSH MOUNT
AD-1	AREA DRAIN- PODIUM	ZURN	Z-110	PROVIDE W/ CLEANOUT
WCO	WALL CLEANOUT	ZURN	Z1446	DURA COATED CAST IRON, STAINLESS STEEL WALL ACCESS COVER
WHA-1	WATER HAMMER ARRESTER	PPP	-	INSTALL PER MANUFACTURER REQUIREMENTS

NOTES:
1. INSTALL PER MANUFACTURER REQUIREMENTS. ALL DRAIN SHALL BE PROVIDED WITH TRAP PRIMER CONNECTION

PLUMBING - WATER METER SCHEDULE									
TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	DESIGN LOAD DEMAND (GPM)	MAX CAPACITY (GPM)	OPERATING WEIGHT (LB)	NOTES

PLUMBING - BOOSTER PUMP SCHEDULE																
* CELLS WITH SHADED BACKGROUNDS ARE UNASSIGNED OR UNDER REVIEW																
TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	SERVICE	DESIGN LOAD DEMAND (GPM)	HEAD(FT)	RPM	ELECTRICAL				OPERATING WEIGHT (lb)	NOTES	
										HP(W)	VOLT(V)	PHASE	FREQUENCY (Hz)			EMERG. PWR. (Y/N)
BP	1						0	0.00		0	0	1	0	Yes	0.00	

PLUMBING - EXPANSION TANK SCHEDULE																			
* CELLS WITH SHADED BACKGROUNDS ARE UNASSIGNED OR UNDER REVIEW																			
TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	SERVICE	SYSTEM VOLUME (GAL)	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MAX TEMP (°F)	MIN TEMP (°F)	WORKING PRESSURE (FT H2O)	MAX PRESSURE (FT H2O)	MIN PRESSURE (FT H2O)	DIMENSIONS		OPERATING WEIGHT (LB)	NOTES	
															HEIGHT	DIAMETER			

PLUMBING - ELECTRIC WATER HEATER SCHEDULE																			
* CELLS WITH SHADED BACKGROUNDS ARE UNASSIGNED OR UNDER REVIEW																			
TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	SERVICE	CAPACITY		OUTPUT (KW)	WATER CONNECTION SIZE	ELECTRICAL			DIMENSIONS			OPERATING WEIGHT (LB)	NOTES	
							GPM	@ °F RISE			FLA (A)	VOLT (V)	PHASE	FREQUENCY (HZ)	LENGTH	WIDTH			HEIGHT
EWH	1						0	460	0.00	0"	0	208	3	60		79"	35	0.00	

PLUMBING - TANKLESS ELECTRIC WATER HEATER SCHEDULE																
TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	SERVICE	DESIGN LOAD DEMAND (GPM)	TEMP RISE (DELTA T)	MINIMUM ACTIVATION FLOW (GPM)	POWER (KW)	ELECTRICAL			EMER. PWR. (Y/N)	OPERATING WEIGHT (lb)	NOTES
											VOLTS	PHASE	FLA			
IWH				TANKLESS WATER HEATER			0	-460	0	0	208	3	60		0.00	
IWH				TANKLESS WATER HEATER			0	-460	0	0	208	3	60		0.00	
IWH				TANKLESS WATER HEATER			0	-460	0	0	208	3	60		0.00	
IWH				TANKLESS WATER HEATER			0	-460	0	0	208	3	60		0.00	
IWH				TANKLESS WATER HEATER			0	-460	0	0	208	3	60		0.00	
IWH				TANKLESS WATER HEATER			0	-460	0	0	208	3	60		0.00	
IWH				TANKLESS WATER HEATER			0	-460	0	0	208	3	60		0.00	
IWH				TANKLESS WATER HEATER			0	-460	0	0	208	3	60		0.00	

PLUMBING - AIR COMPRESSOR SCHEDULE																
* CELLS WITH SHADED BACKGROUNDS ARE UNASSIGNED OR UNDER REVIEW																
TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	DESIGN LOAD DEMAND (CFM)	DESIGN PRESURE (in-wg)	MAX CAPACITY (in-wg)	RECEIVER SIZE (GAL)	ELECTRICAL				OPERATING WEIGHT (lb)	NOTES	
										MOTOR (W)	VOLTAGE (V)	PHASE	FLA (A)			
AC	1					0	0.00	0.00	100	0	0	1	0	Yes	0.00	[MODEL XX] [INCLUDED WITH PACKAGED SYSTEM] TERMINATE DRAIN OVER FLOOR/SINK WITH 1" AIRGAP, MIN

FILE NO. ?XX-XXXX?
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P 916.558.1900 F 916.558.1919
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CONSULTANT

INTEGRAL
427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
www.integralgroup.com

PROJECT
**PUBLIC SAFETY COMPLEX /
ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT**
LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551
CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?00000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?
ISSUED
MARK DATE DESCRIPTION
01/10/2020 50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
PLUMBING SCHEDULES

SHEET
P-601

0 1/4" 1/2" 1" 2" 4" 8" 16" 32" 64" 128" 256" 512" 1024" 2048" 4096" 8192" 16384" 32768" 65536" 131072" 262144" 524288" 1048576" 2097152" 4194304" 8388608" 16777216" 33554432" 67108864" 134217728" 268435456" 536870912" 1073741824" 2147483648" 4294967296" 8589934592" 17179869184" 34359738368" 68719476736" 137438953472" 274877906944" 549755813888" 1099511627776" 2199023255552" 4398046511104" 8796093022208" 17592186044416" 35184372088832" 70368744177664" 140737488355328" 281474976710656" 562949953421312" 1125899906842624" 2251799813685248" 4503599627370496" 9007199254740992" 18014398509481984" 36028797018963968" 72057594037927936" 144115188075855872" 288230376151711744" 576460752303423488" 1152921504606846976" 2305843009213693952" 4611686018427387904" 9223372036854775808" 18446744073709551616" 36893488147419103232" 73786976294838206464" 147573952589676412928" 295147905179352825856" 590295810358705651712" 1180591620717411303424" 2361183241434822606848" 4722366482869645213696" 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0 1/4" = 1'-0"

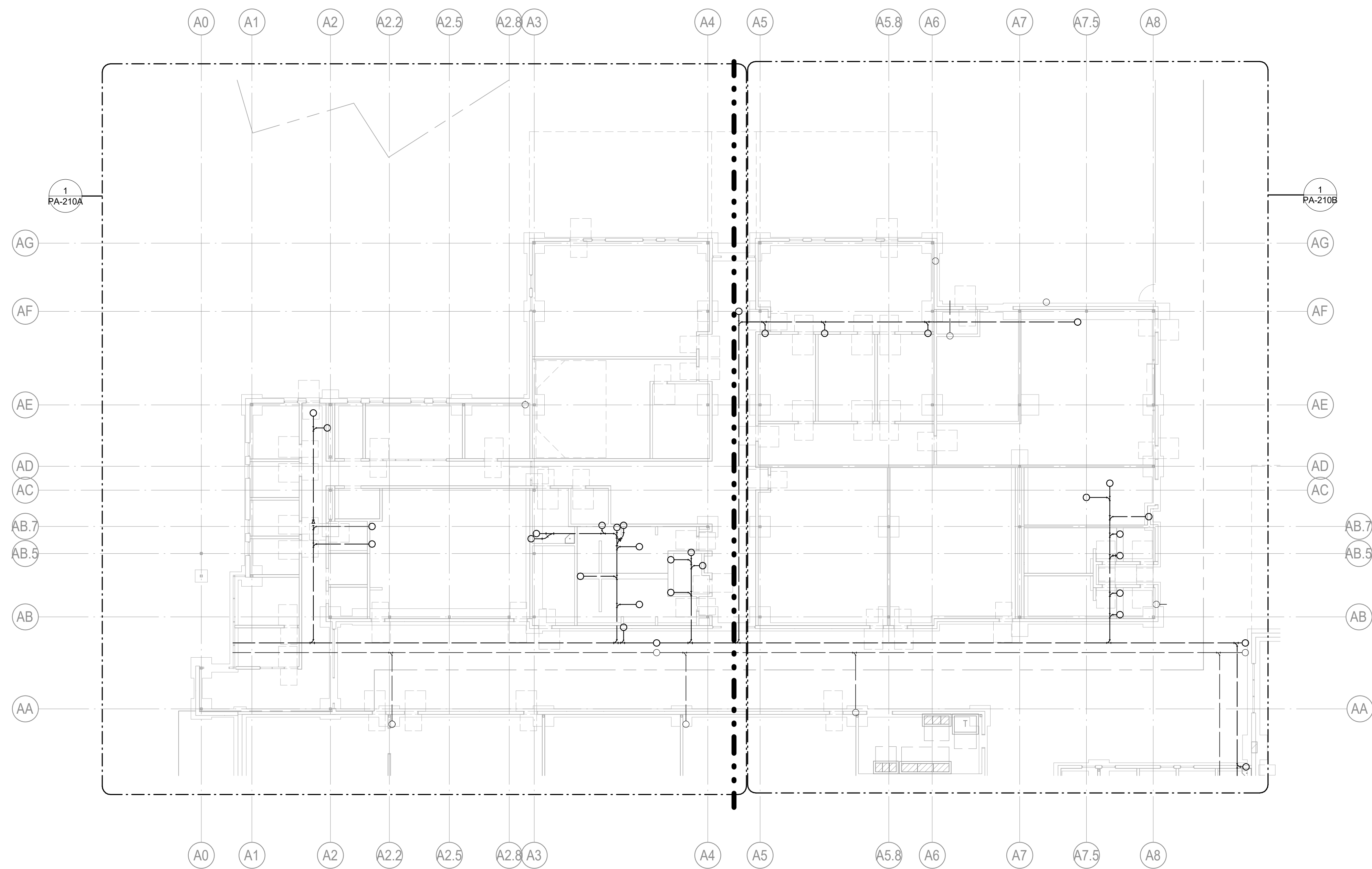
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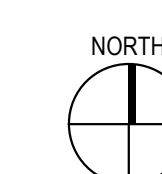
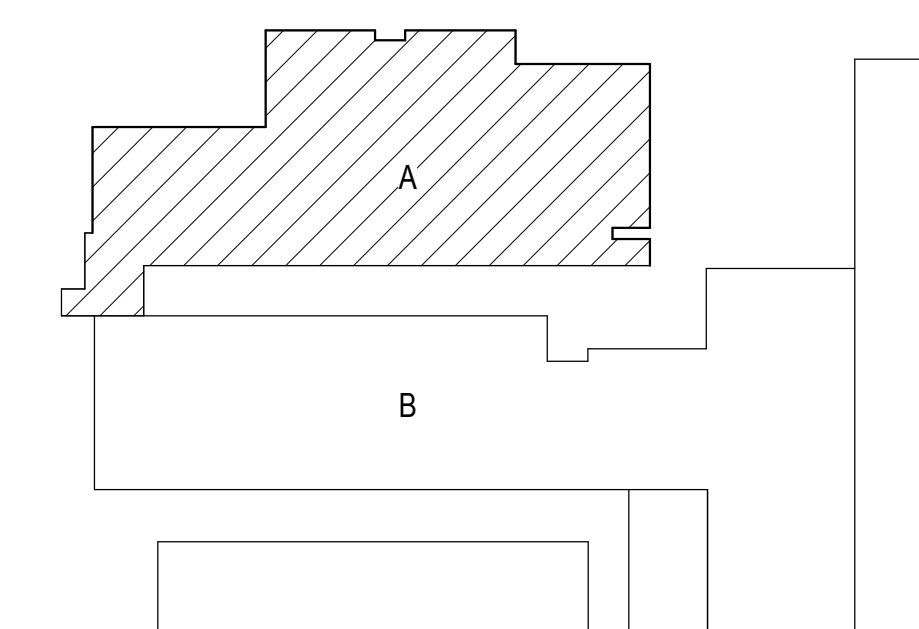


1 BUILDING A - PLUMBING OVERALL UNDERGROUND PLAN
1/16" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN

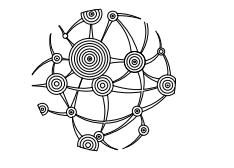


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427 13th Street
 Oakland, CA 94612
 510.663.2070 Telephone
 E-Mail: info@integralgroup.com
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LAS POSITAS COLLEGE
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: ?000000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING A - PLUMBING
 OVERALL
 UNDERGROUND PLAN**

SHEET
PA-210

0 1/4" = 1'-0"

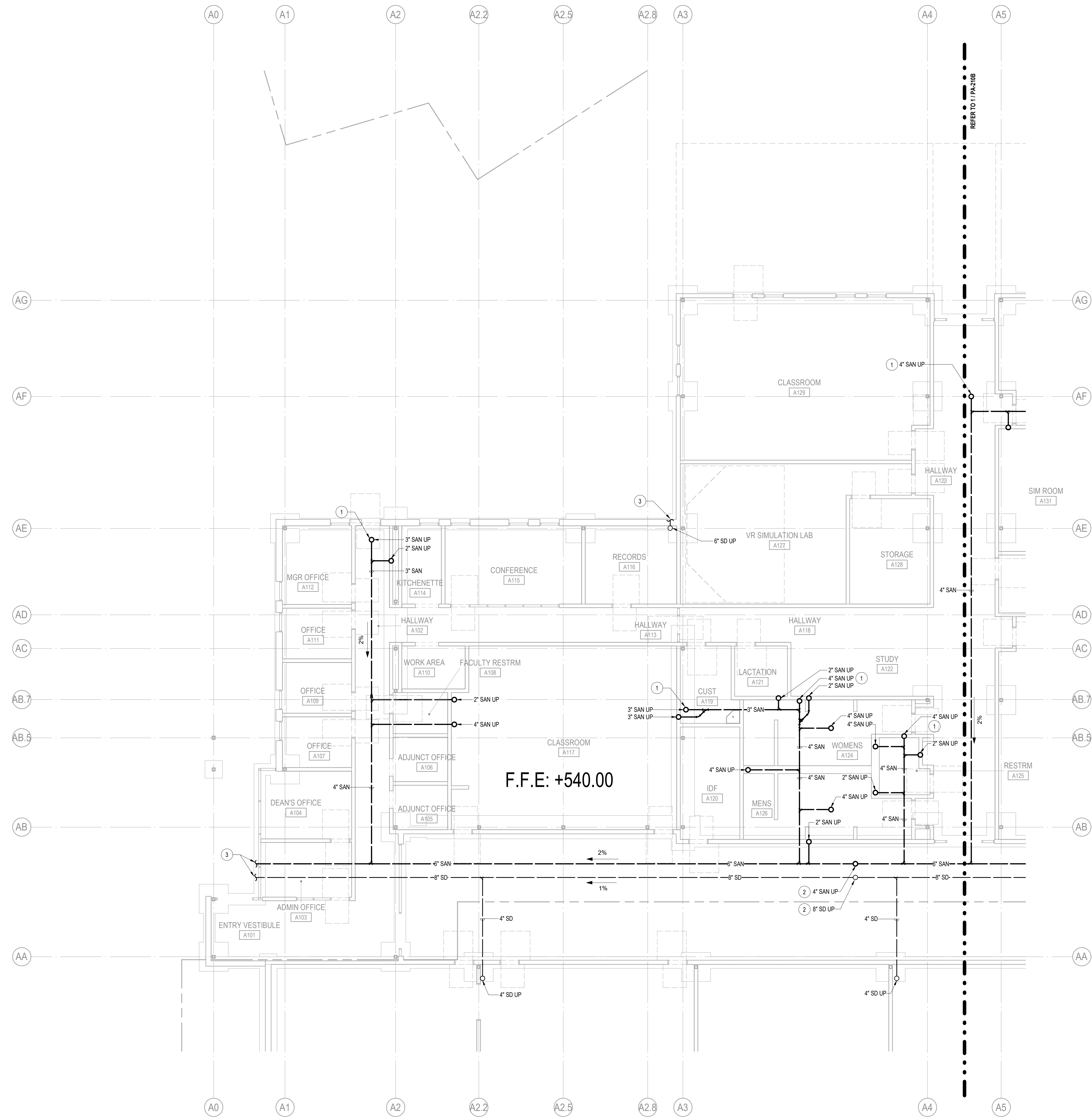
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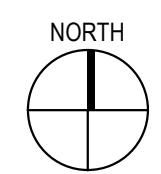
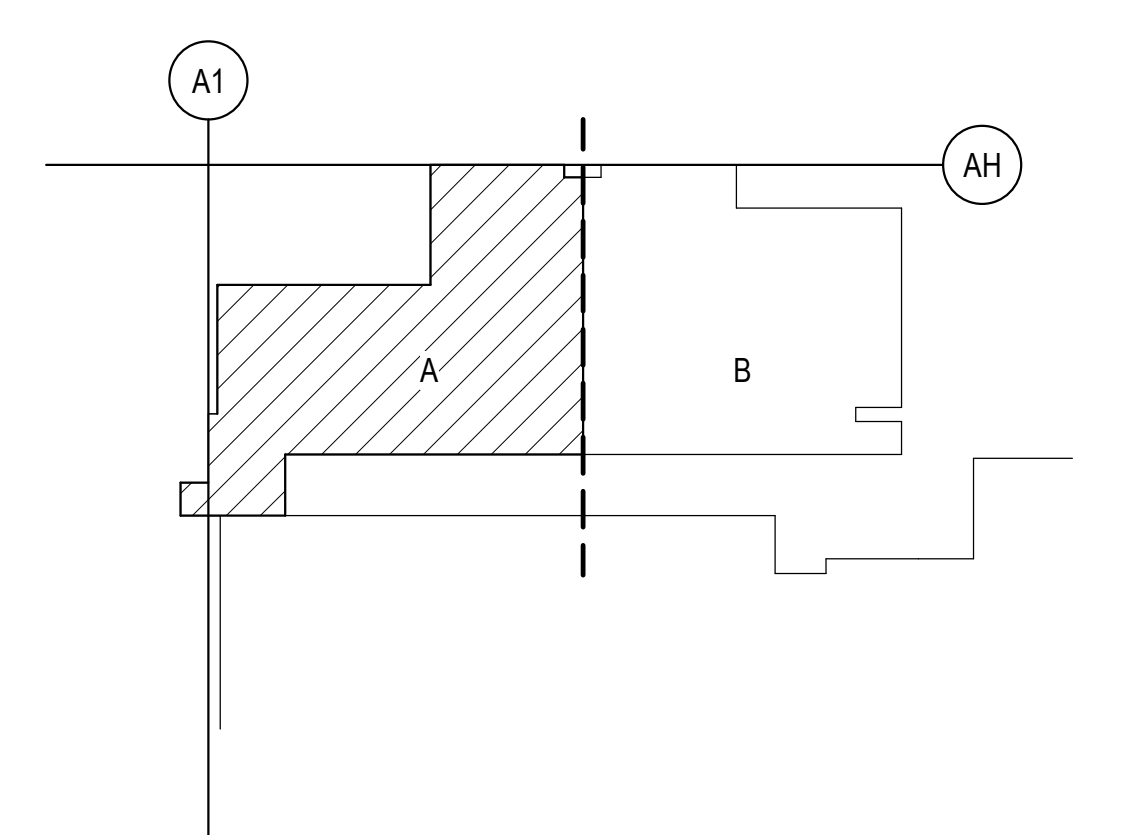
1 BUILDING A - PLUMBING PARTIAL UNDERGROUND PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

- UP TO FCO
- UP TO GCO
- SEE SHEET P-101 FOR CONTINUATION

KEY PLAN



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INTEGRAL
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 LIVERMORE, CA 94551
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 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: ?00000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING A - PLUMBING
 PARTIAL
 UNDERGROUND PLAN -
 AREA A**

SHEET
PA-210A

0 1/4" = 1'-0"

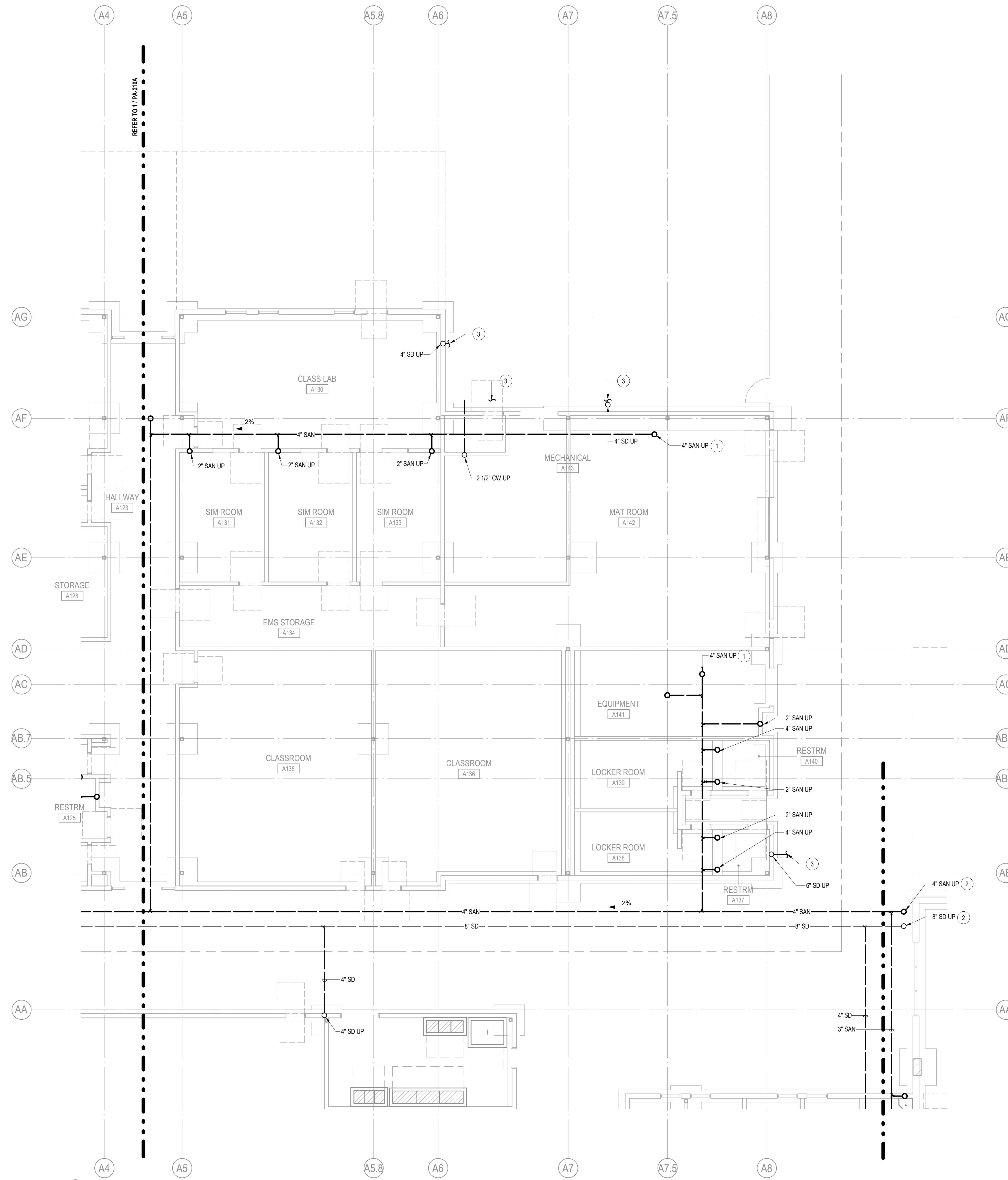
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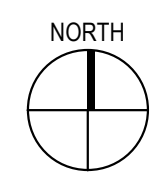
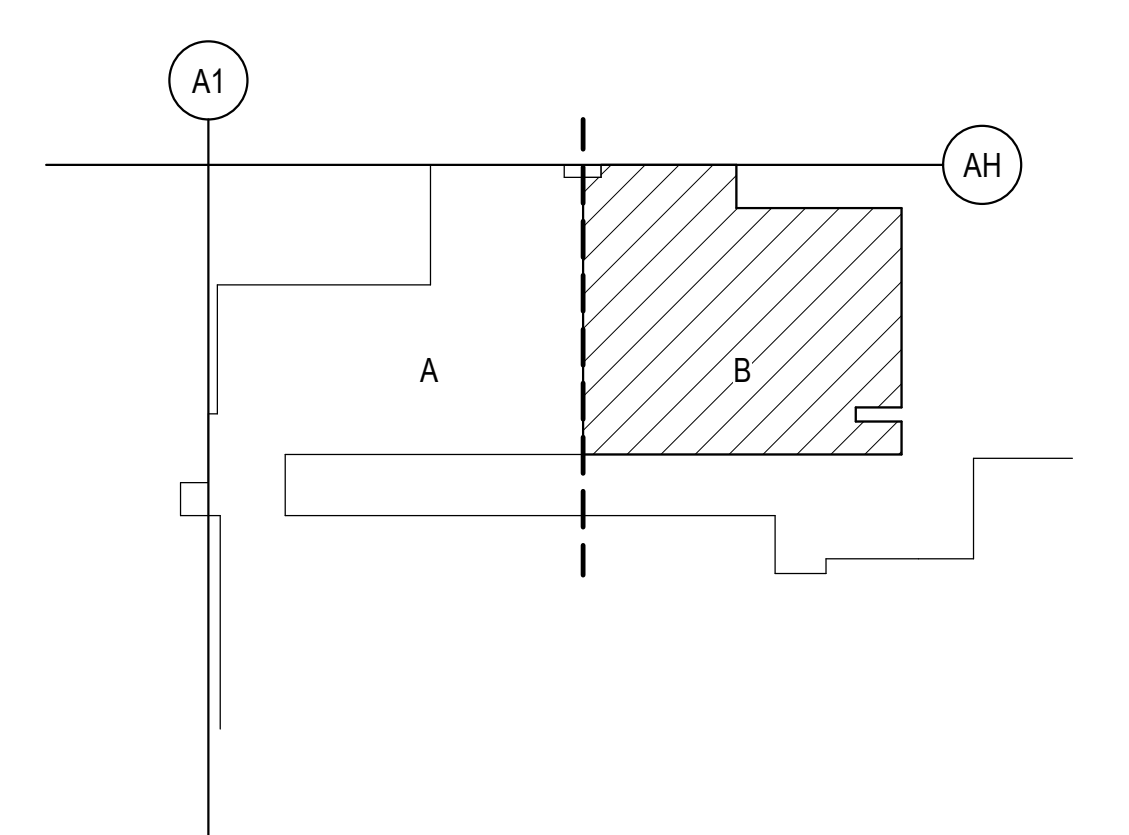
1 BUILDING A - PLUMBING PARTIAL UNDERGROUND PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

- UP TO FCO
- UP TO GCO
- SEE SHEET P-101 FOR CONTINUATION

KEY PLAN



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 COLLEGE DISTRICT
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 DUBLIN, CA 94568

Facility No: ?XXXXXX?
 Building No: ?XX?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT	NO.
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TITLE
**BUILDING A - PLUMBING
 PARTIAL
 UNDERGROUND PLAN -
 AREA B**

SHEET
PA-210B

0 1/4" 1/2" 1"

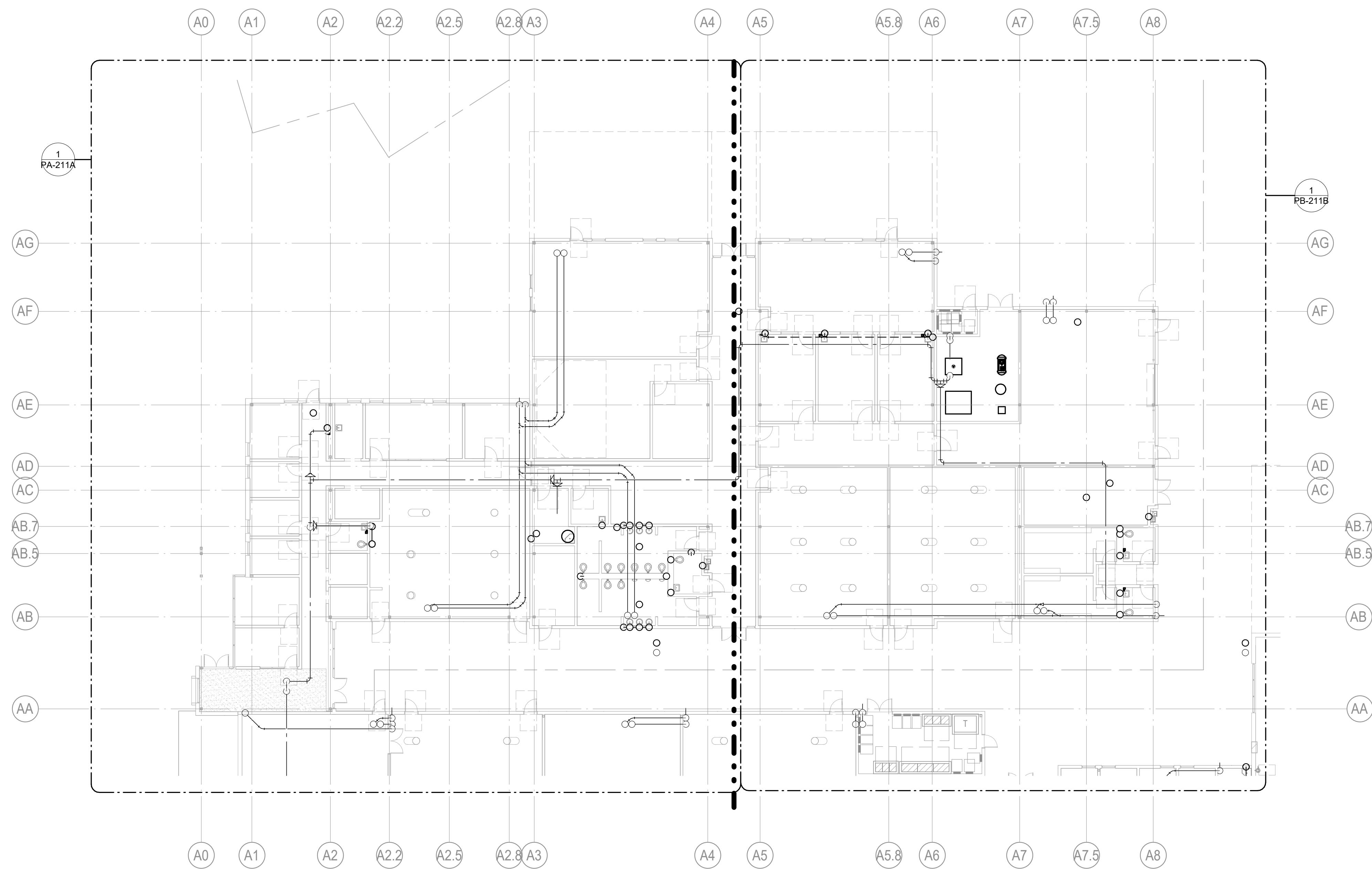
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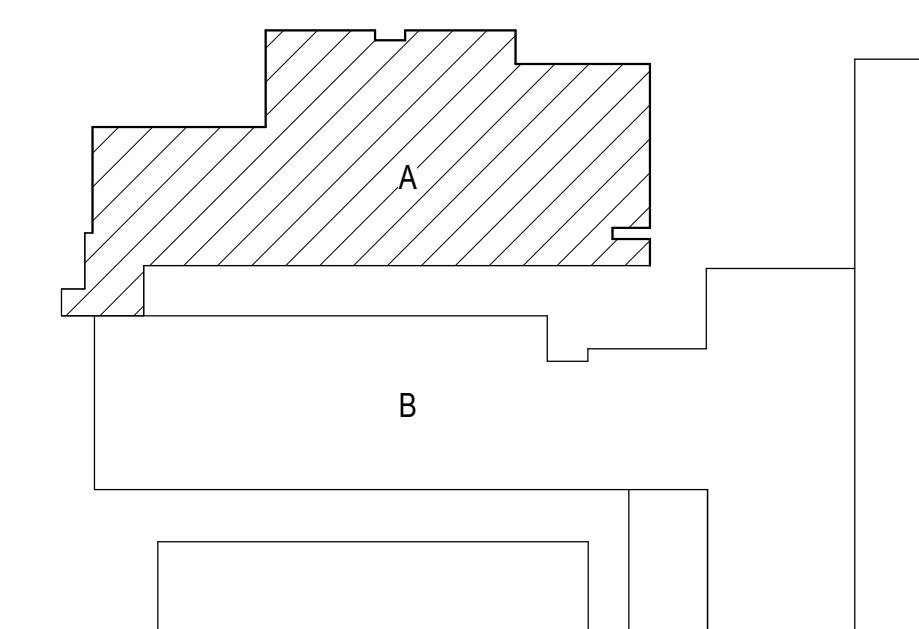


1 BUILDING A - PLUMBING OVERALL FLOOR PLAN
1/16" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN

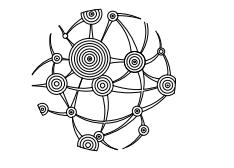


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427 13th Street
 Oakland, CA 94612
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 Building No: ?00?
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ISSUED		
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING A - PLUMBING
 OVERALL FLOOR PLAN**

SHEET
PA-211

0 1/4" = 1'-0"

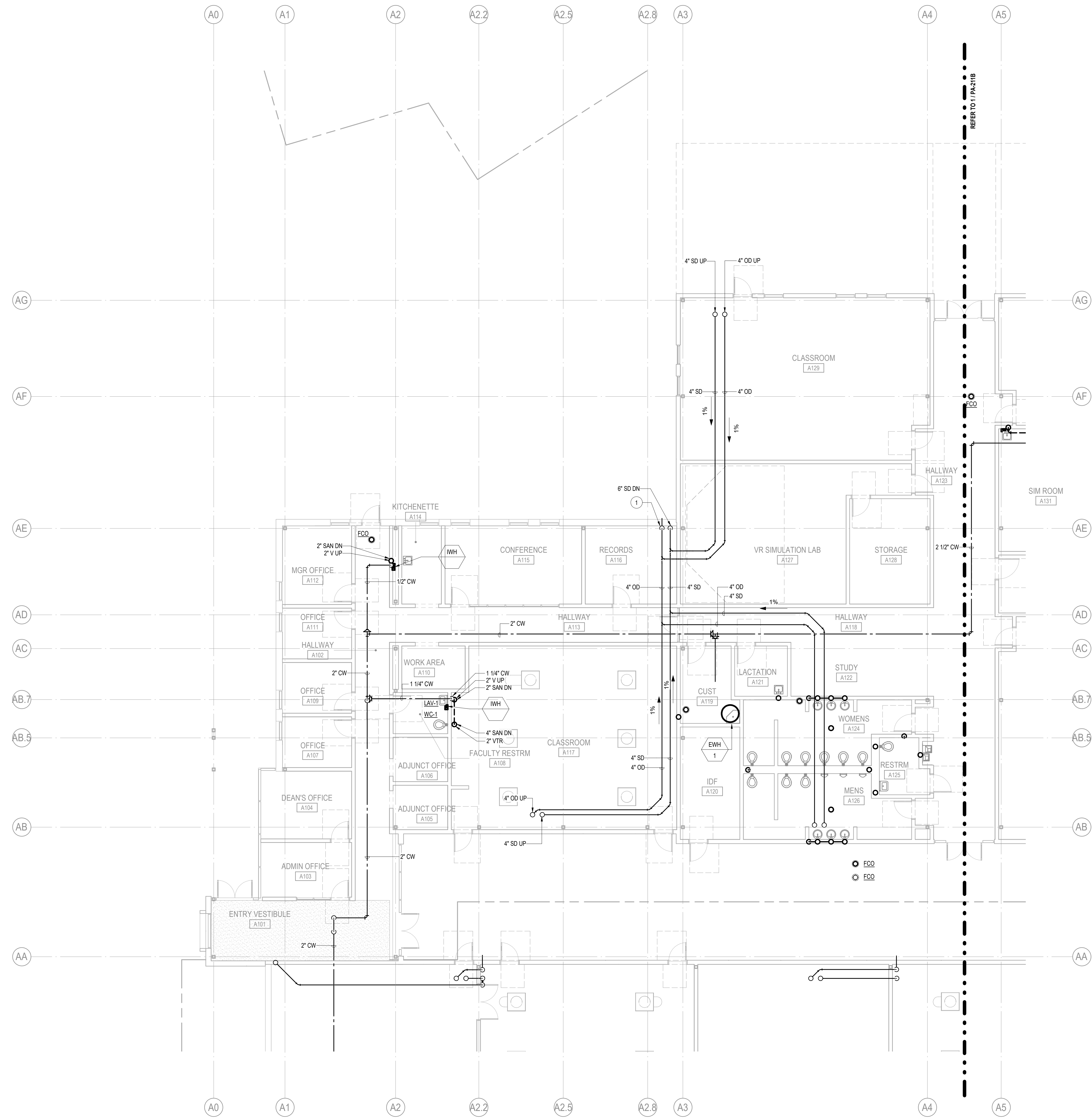
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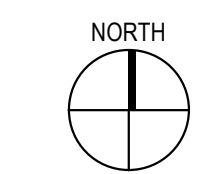
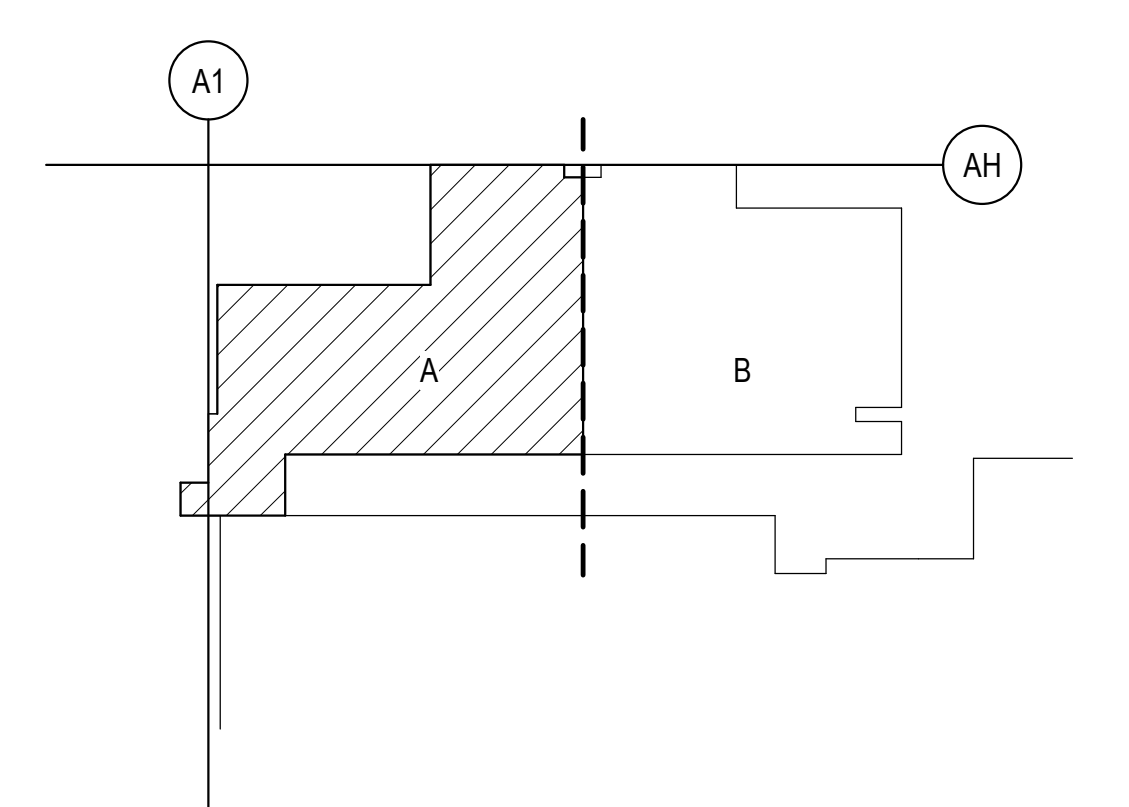
1 BUILDING A - PLUMBING PARTIAL FLOOR PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

- 1. OD DROP TO DISCHARGE 1'-0" ABOVE FINISHED GRADE ON CONCRETE PAD WITH DSN-1

KEY PLAN

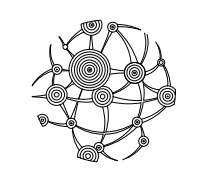


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Facility No: ?00000?
 Building No: ?00?
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MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

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TITLE
**BUILDING A - PLUMBING
 PARTIAL FLOOR PLAN -
 AREA A**

SHEET
PA-211A

0 1/4" = 1'-0"

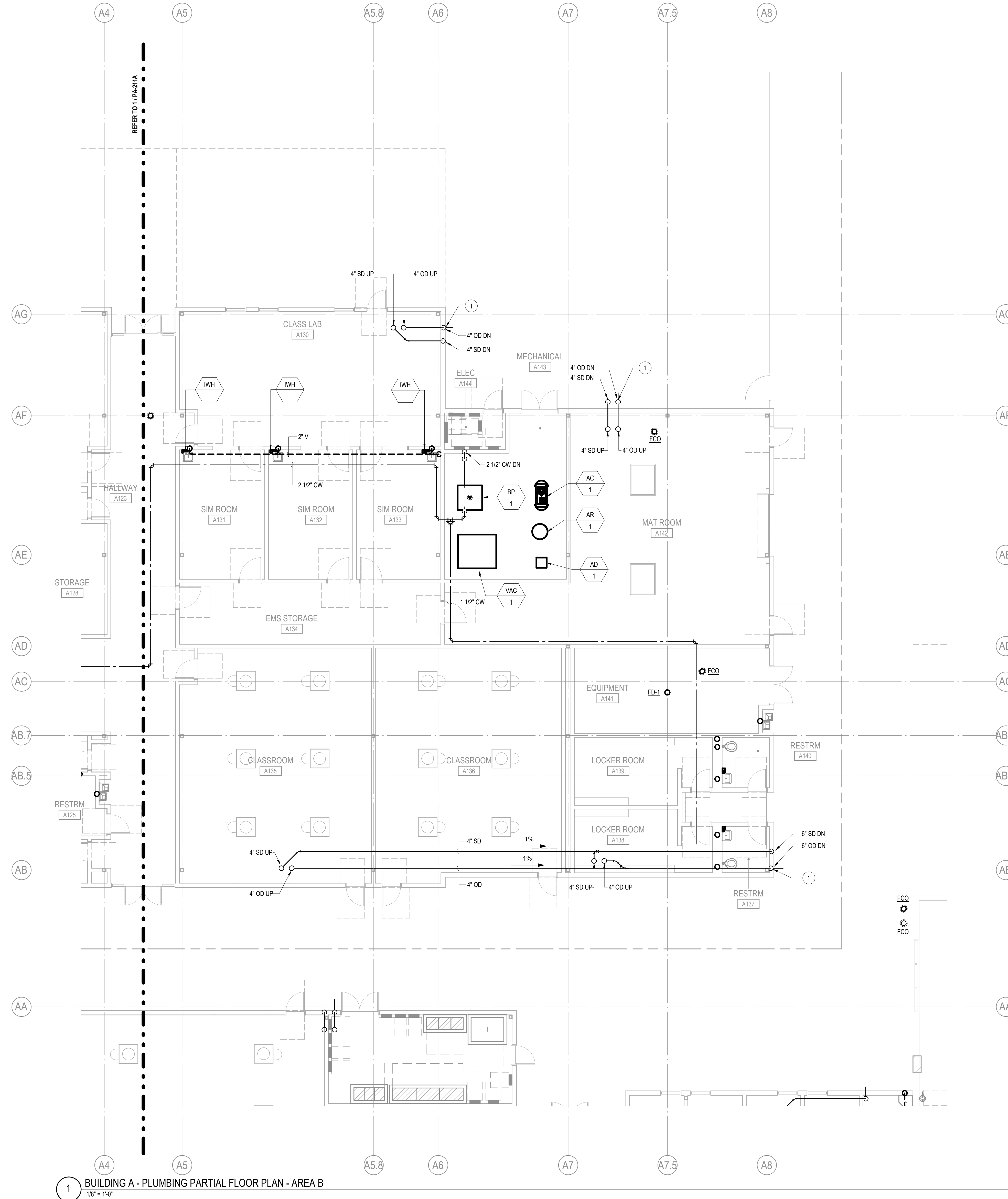
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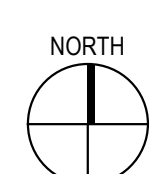
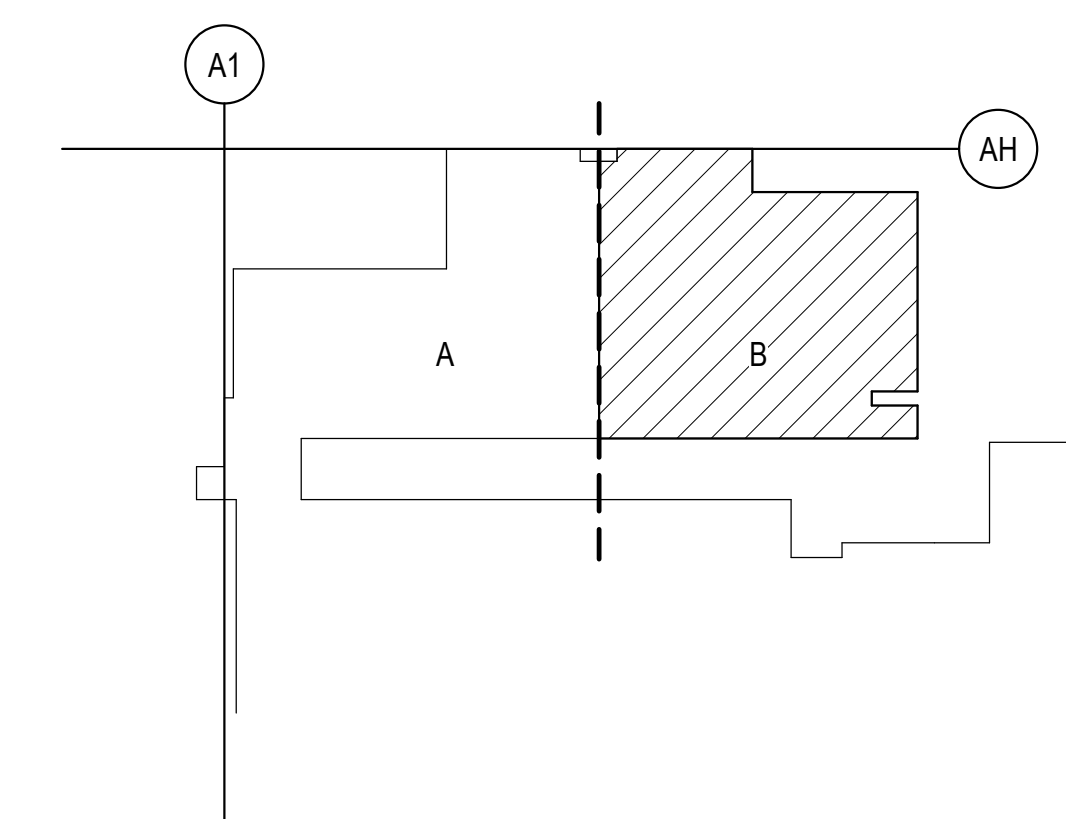
1 BUILDING A - PLUMBING PARTIAL FLOOR PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. OD DROP TO DISCHARGE 1'-0" ABOVE FINISHED GRADE ON CONCRETE PAD WITH DSN-1

KEY PLAN

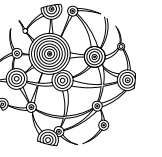


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 P 916.558.1900 F 916.558.1919
 www.lionakis.com

CONSULTANT



INTEGRAL

427 13th Street
 Oakland, CA 94612
 510.663.2070 Telephone
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PROJECT
**PUBLIC SAFETY COMPLEX /
 ADVANCED MANUFACTURING AND
 TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: ?000000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING A - PLUMBING
 PARTIAL FLOOR PLAN -
 AREA B**

SHEET
PA-211B

0 1/4" = 1'

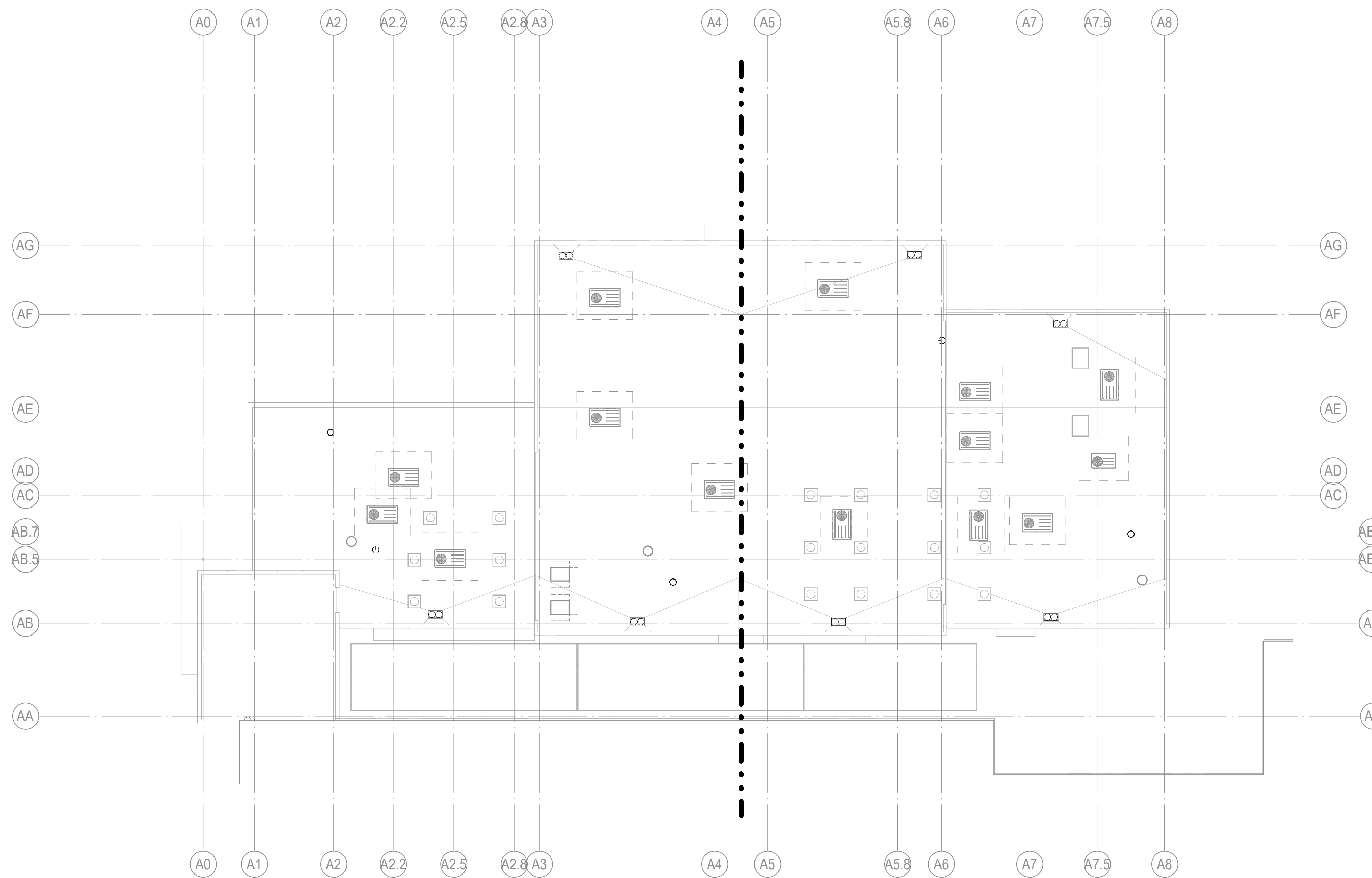
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BM1901030304 - Lionakis.Las Positas.PSC-AMT1G.LasPositas.PSC-AMT_MEP_18.rvt

1/17/2020 2:25:46 PM

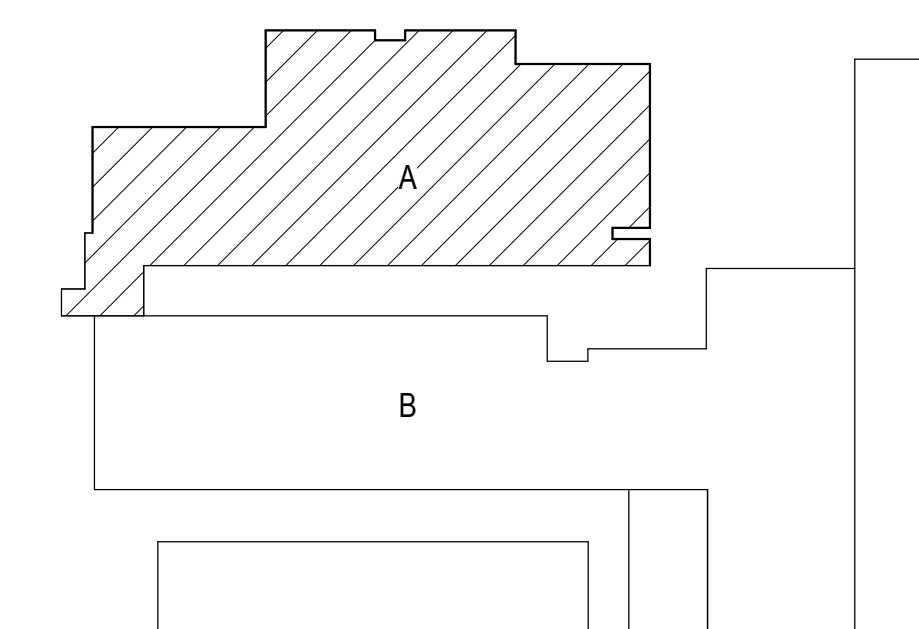


1 BUILDING A - PLUMBING OVERALL ROOF PLAN
1/16" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN

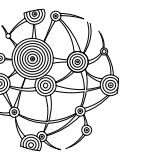


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 510.663.2070 Telephone
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Facility No: ?000000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

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MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
 LIONAKIS PROJECT NO: 019091
 CLIENT PROJECT NO: -
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TITLE
**BUILDING A - PLUMBING
 OVERALL ROOF PLAN**

SHEET
PA-221

0 1/4" = 1'-0"

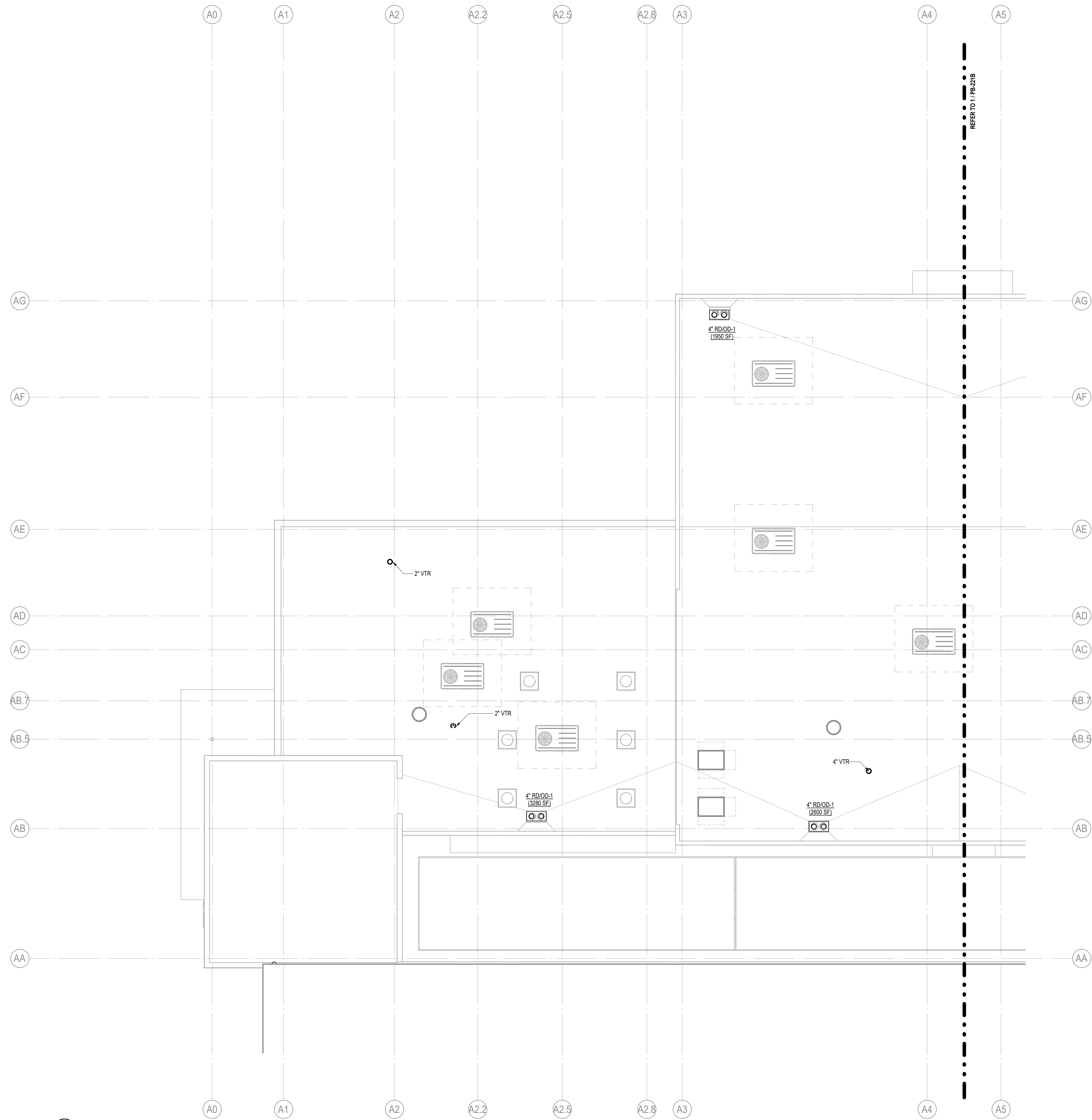
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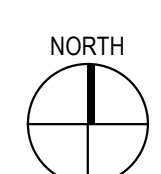
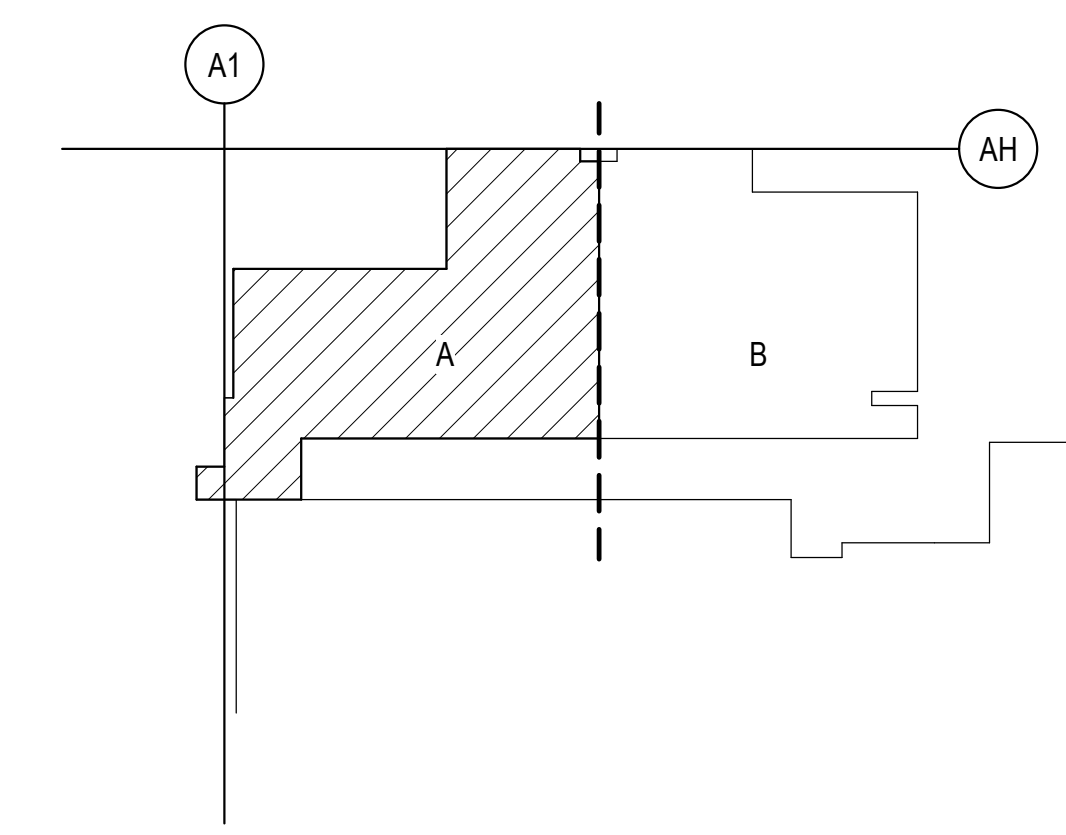


1 BUILDING A - PLUMBING PARTIAL ROOF PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN



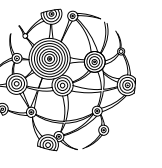
FILE NO. ?XX-XXXX?

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Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
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LIVERMORE, CA 94551

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COLLEGE DISTRICT
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DUBLIN, CA 94568

Facility No: ?XXXXXX?
Building No: ?XX?
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MARK	DATE	DESCRIPTION
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MANAGEMENT

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TITLE

**BUILDING A - PLUMBING
PARTIAL ROOF PLAN -
AREA A**

SHEET

PA-221A

0 1/4" = 1'-0"

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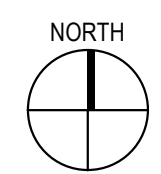
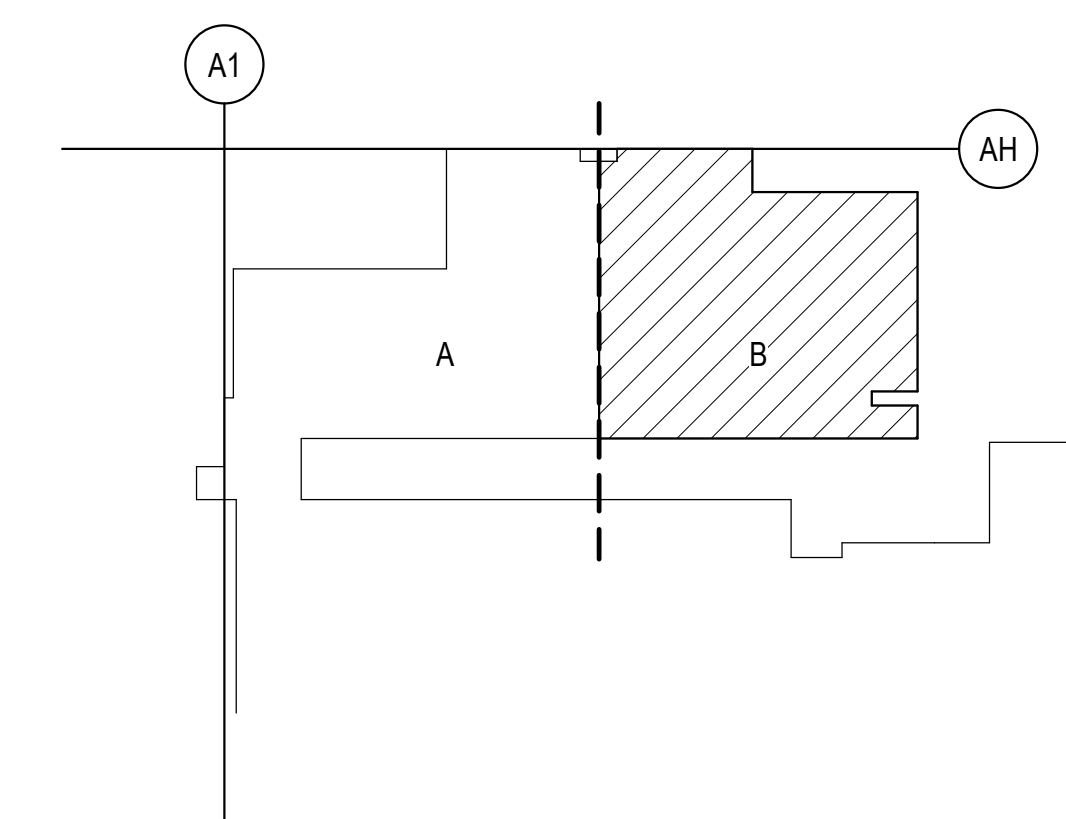


1 BUILDING A - PLUMBING PARTIAL ROOF PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN



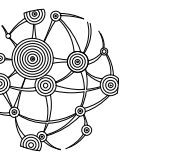
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3000 CAMPUS HILL DRIVE
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COLLEGE DISTRICT
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DUBLIN, CA 94568

Facility No: ?00000?7
Building No: ?00?7
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	01/10/2020	50% DESIGN DEVELOPMENT

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TITLE
**BUILDING A - PLUMBING
PARTIAL ROOF PLAN -
AREA B**

SHEET

PA-221B

0 1/4" 1/2" 1"

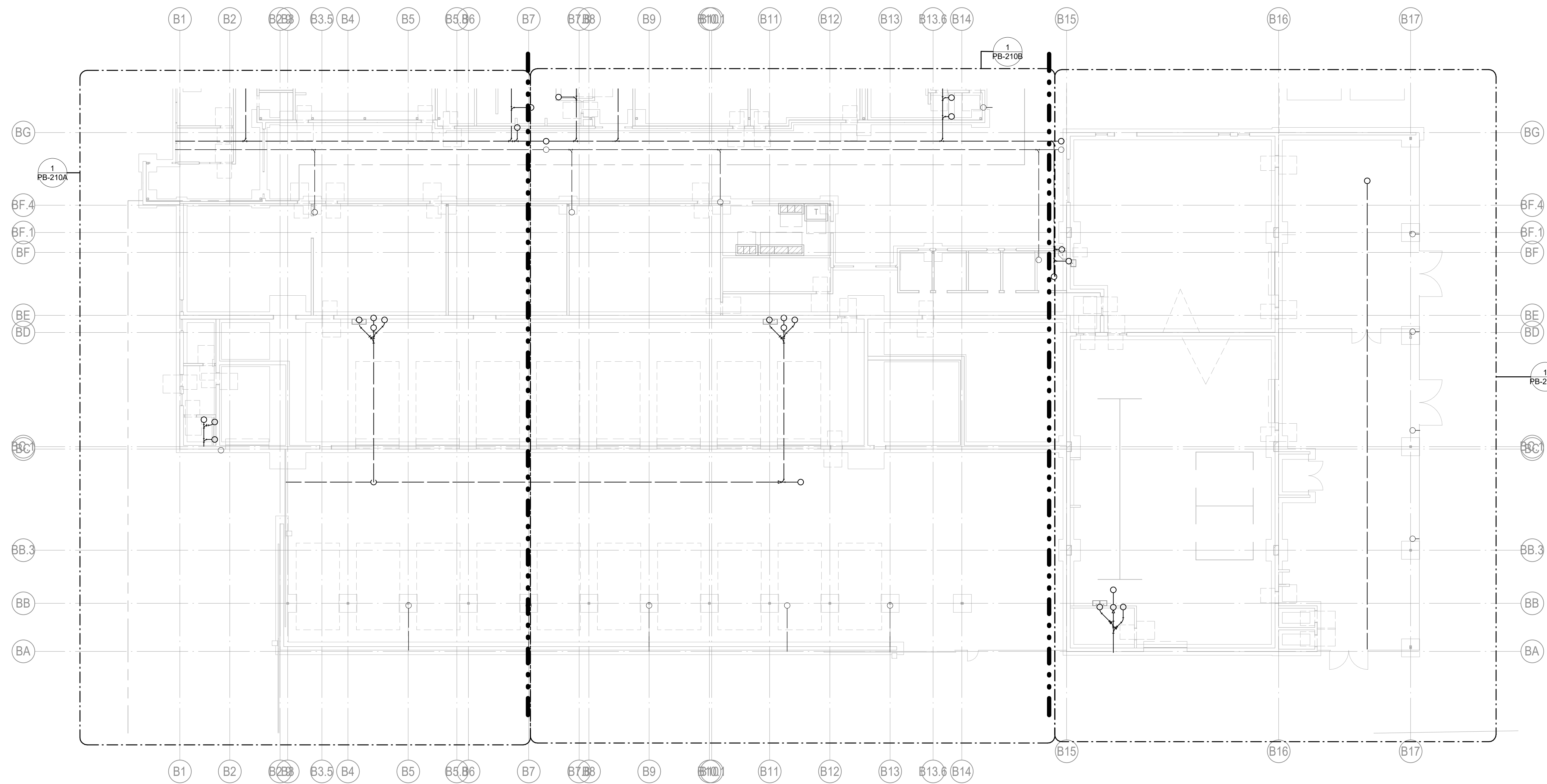
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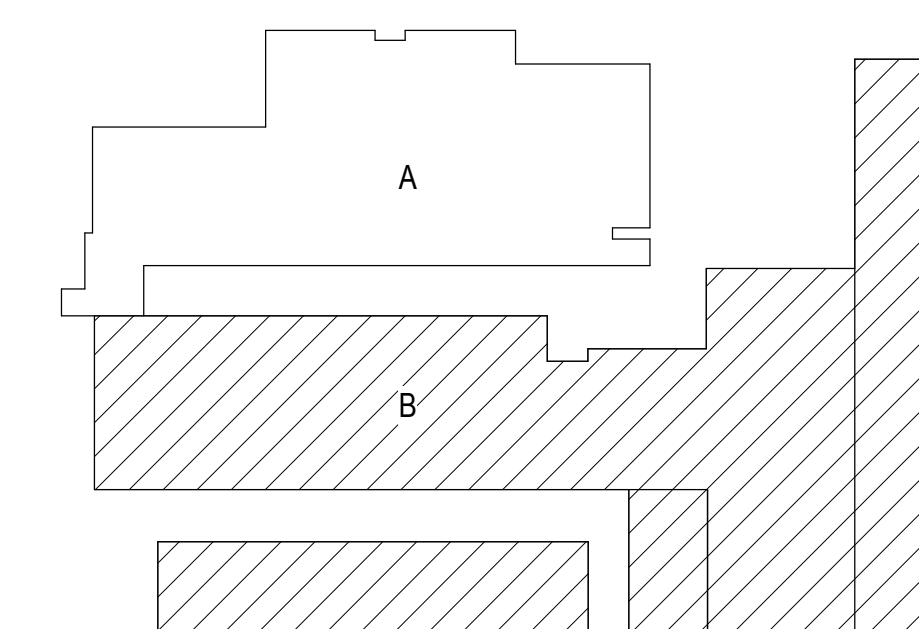


1 BUILDING B - PLUMBING OVERALL UNDERGROUND PLAN
1/16" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN

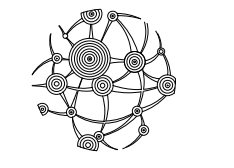


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 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: 70000007
 Building No: 7007
 OSHPD No: 7P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
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MANAGEMENT
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TITLE
**BUILDING B - PLUMBING
 OVERALL
 UNDERGROUND PLAN**

SHEET
PB-210

0 1/4" = 1'

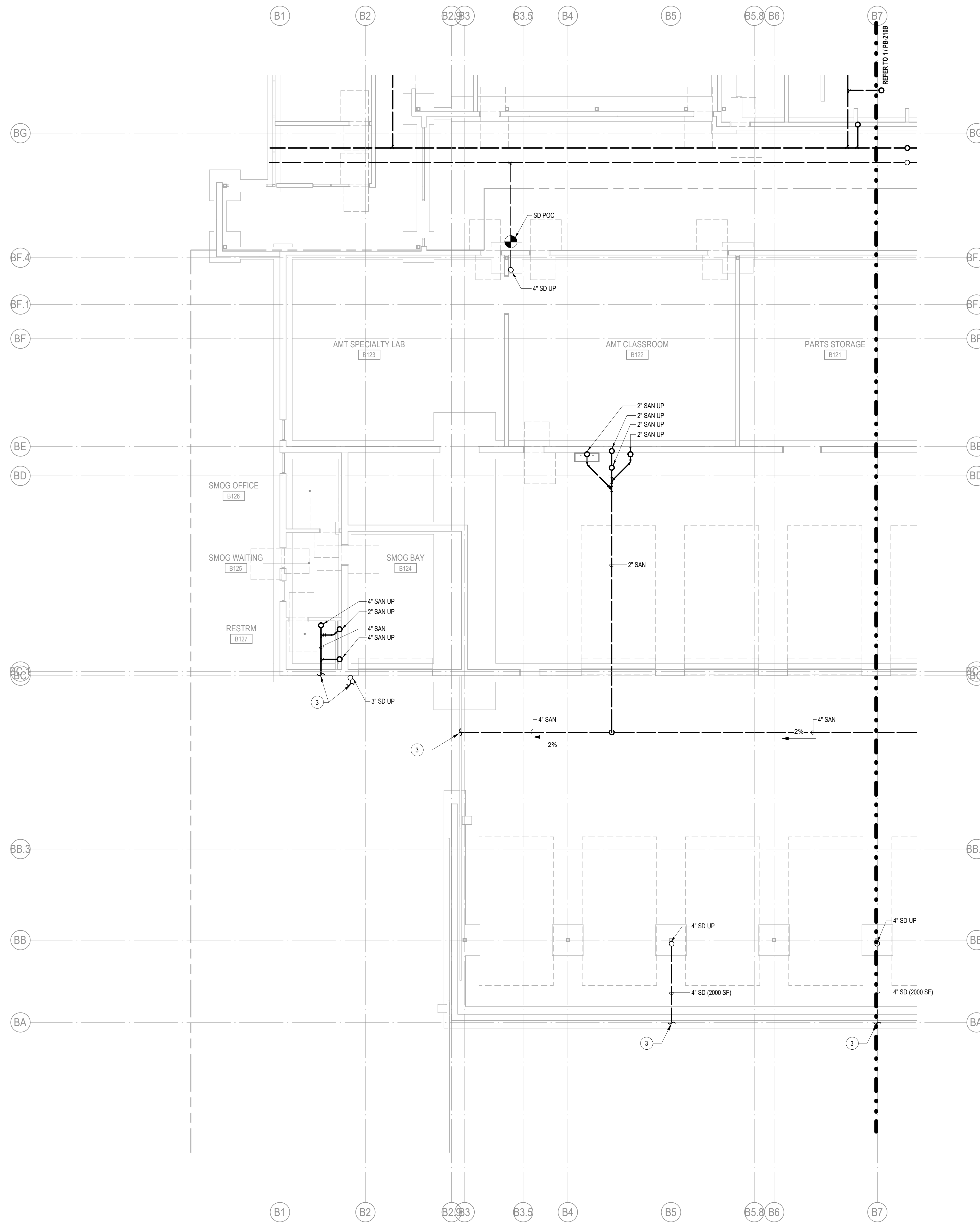
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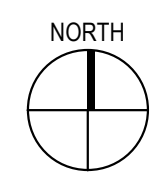
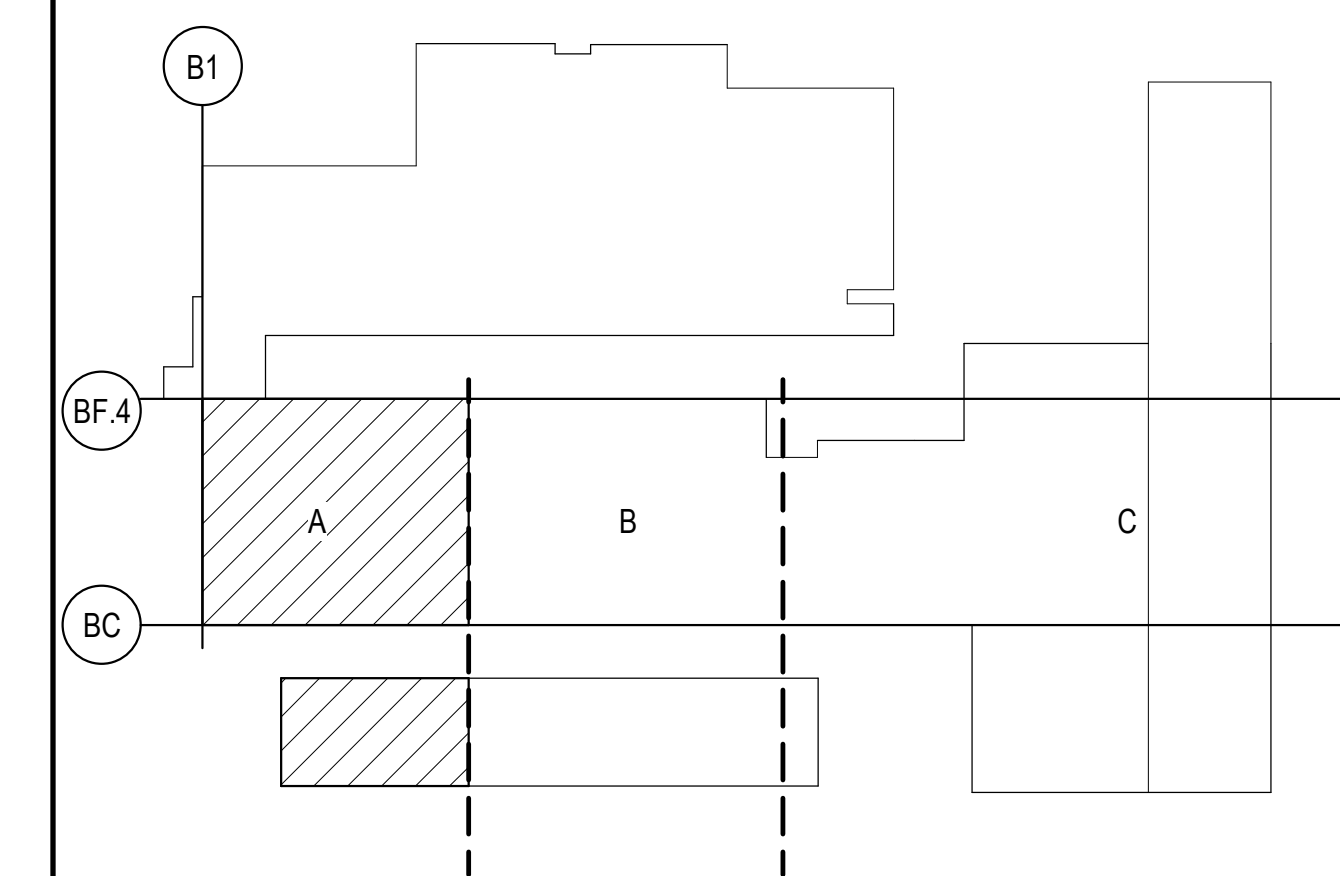
1 BUILDING B - PLUMBING PARTIAL UNDERGROUND PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. UP TO FCO
2. UP TO GCO
3. SEE SHEET P-101 FOR CONTINUATION.

KEY PLAN

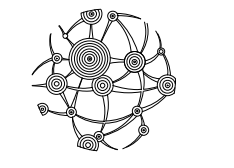


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 E-Mail: info@integralgroup.com
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Facility No: ?XXXXXX?
 Building No: ?XX?
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MARK	DATE	DESCRIPTION
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TITLE
**BUILDING B - PLUMBING
 PARTIAL
 UNDERGROUND PLAN -
 AREA A**

SHEET

PB-210A

0. 1/4" = 12'

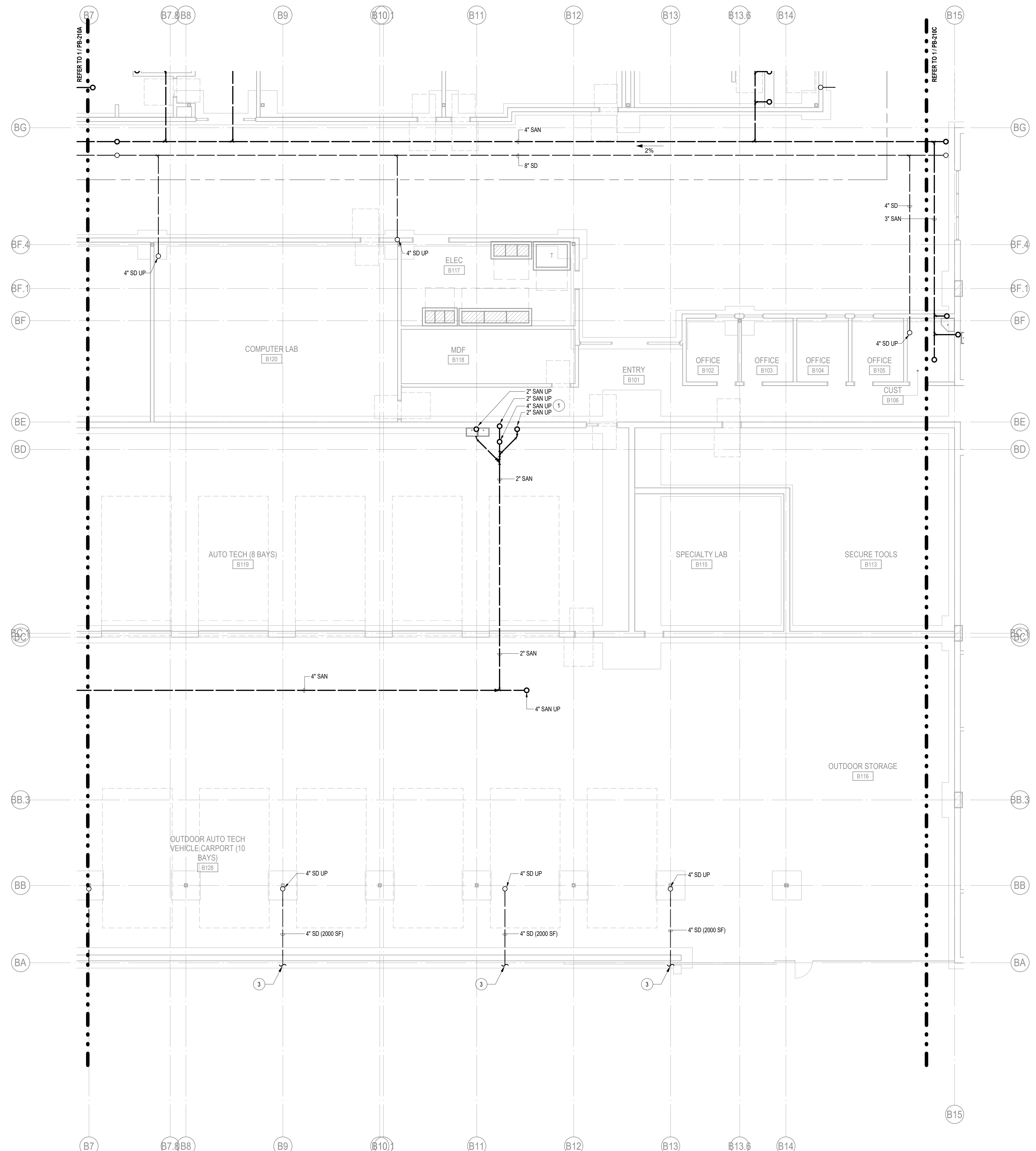
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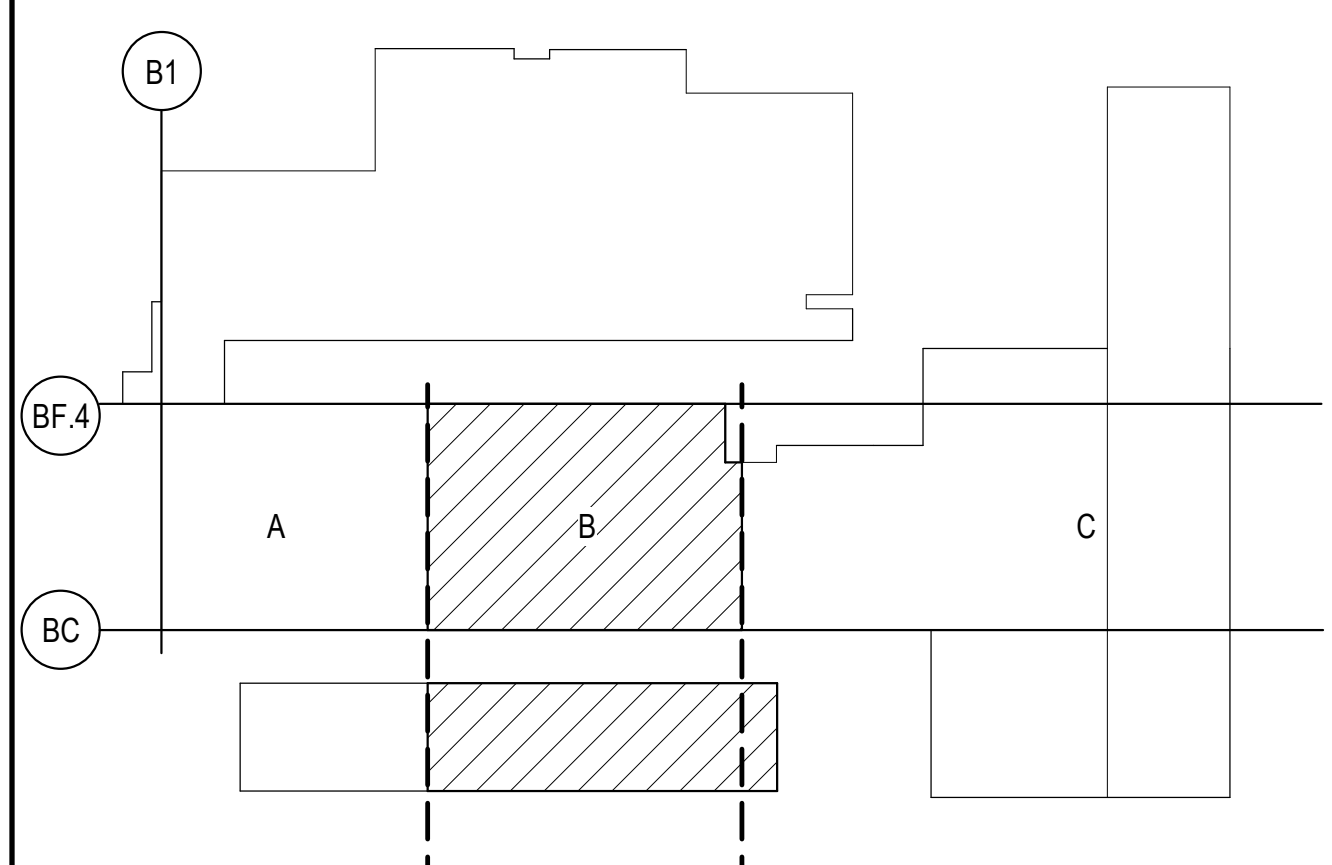
1 BUILDING B - PLUMBING PARTIAL UNDERGROUND PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. UP TO FOO
2. UP TO GCO
3. SEE SHEET P-101 FOR CONTINUATION.

KEY PLAN



FILE NO. ?XX-XXXX?
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 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: 70000007
 Building No: 9007
 OSHPD No: 7P-2016-XXXXXX?

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TITLE
**BUILDING B - PLUMBING
 PARTIAL
 UNDERGROUND PLAN -
 AREA B**

SHEET
PB-210B

0 1/4" = 1'-0"

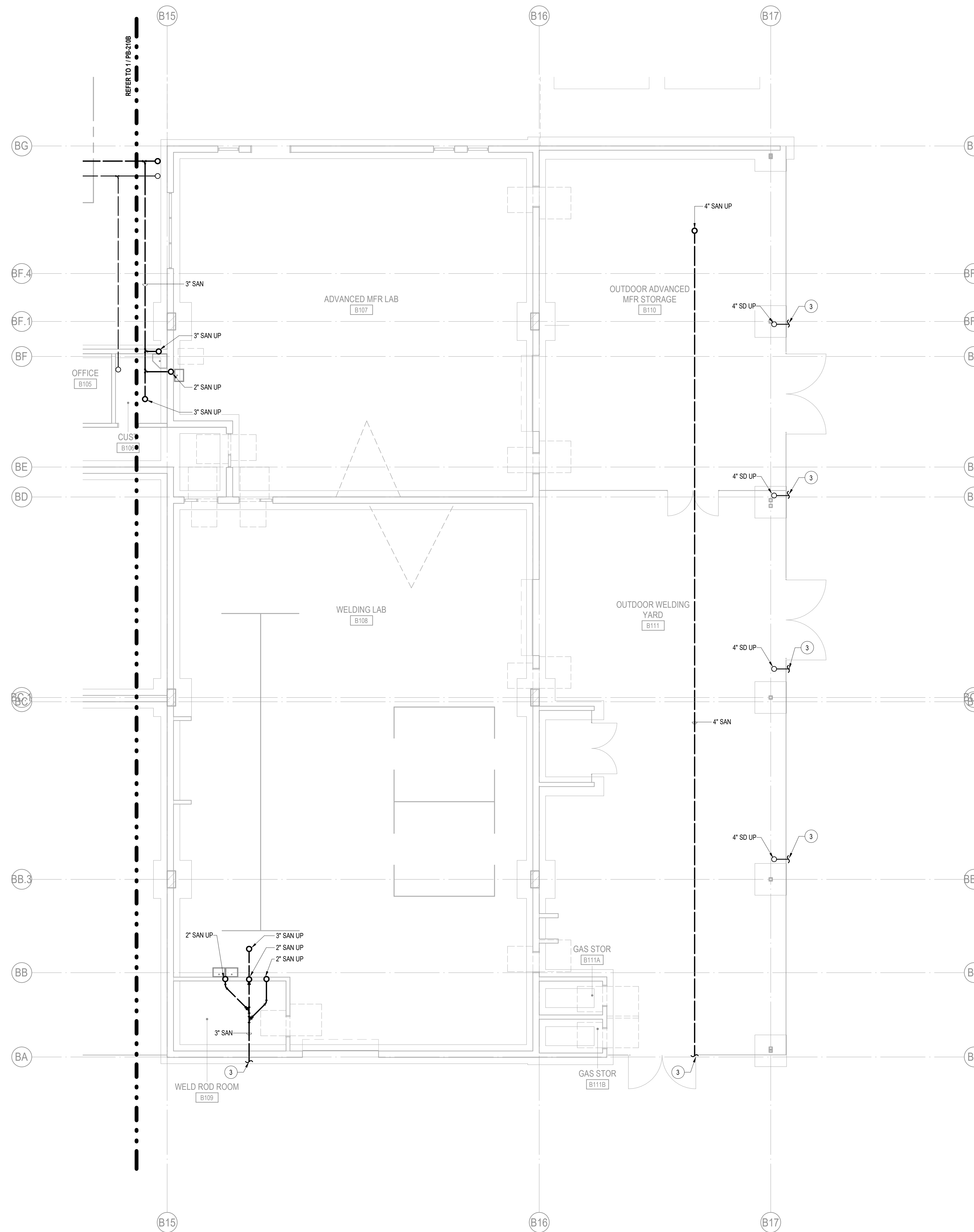
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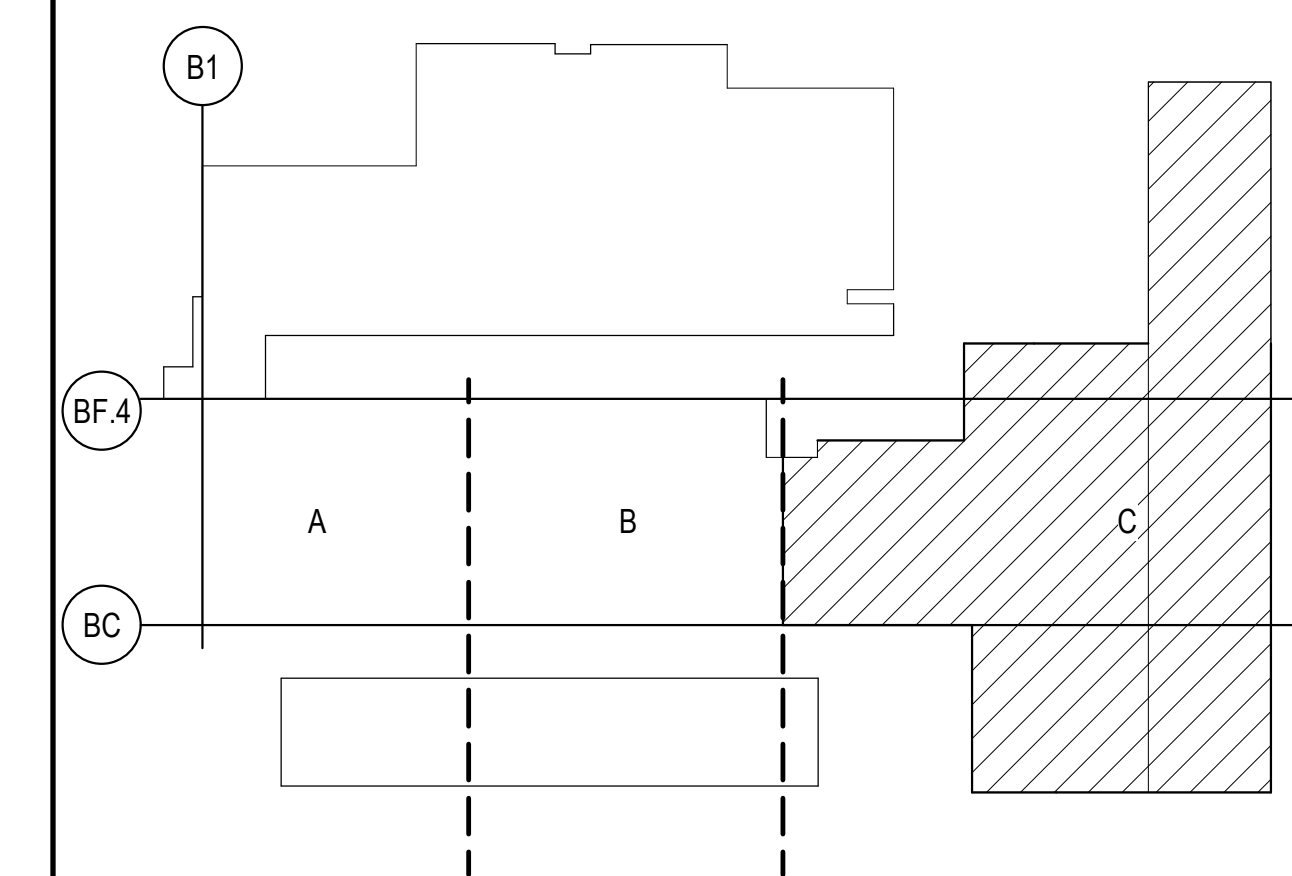
1 BUILDING B - PLUMBING PARTIAL UNDERGROUND PLAN - AREA C
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. UP TO FCO
2. UP TO GCO
3. SEE SHEET P-101 FOR CONTINUATION

KEY PLAN

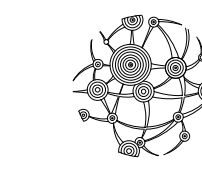


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CLIENT
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 COLLEGE DISTRICT
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Facility No: 7000007
 Building No: 9007
 OSHPD No: 7P-2016-XXXXXX7

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TITLE
**BUILDING B - PLUMBING
 PARTIAL
 UNDERGROUND PLAN -
 AREA C**

SHEET

PB-210C

0 1/4" = 1'

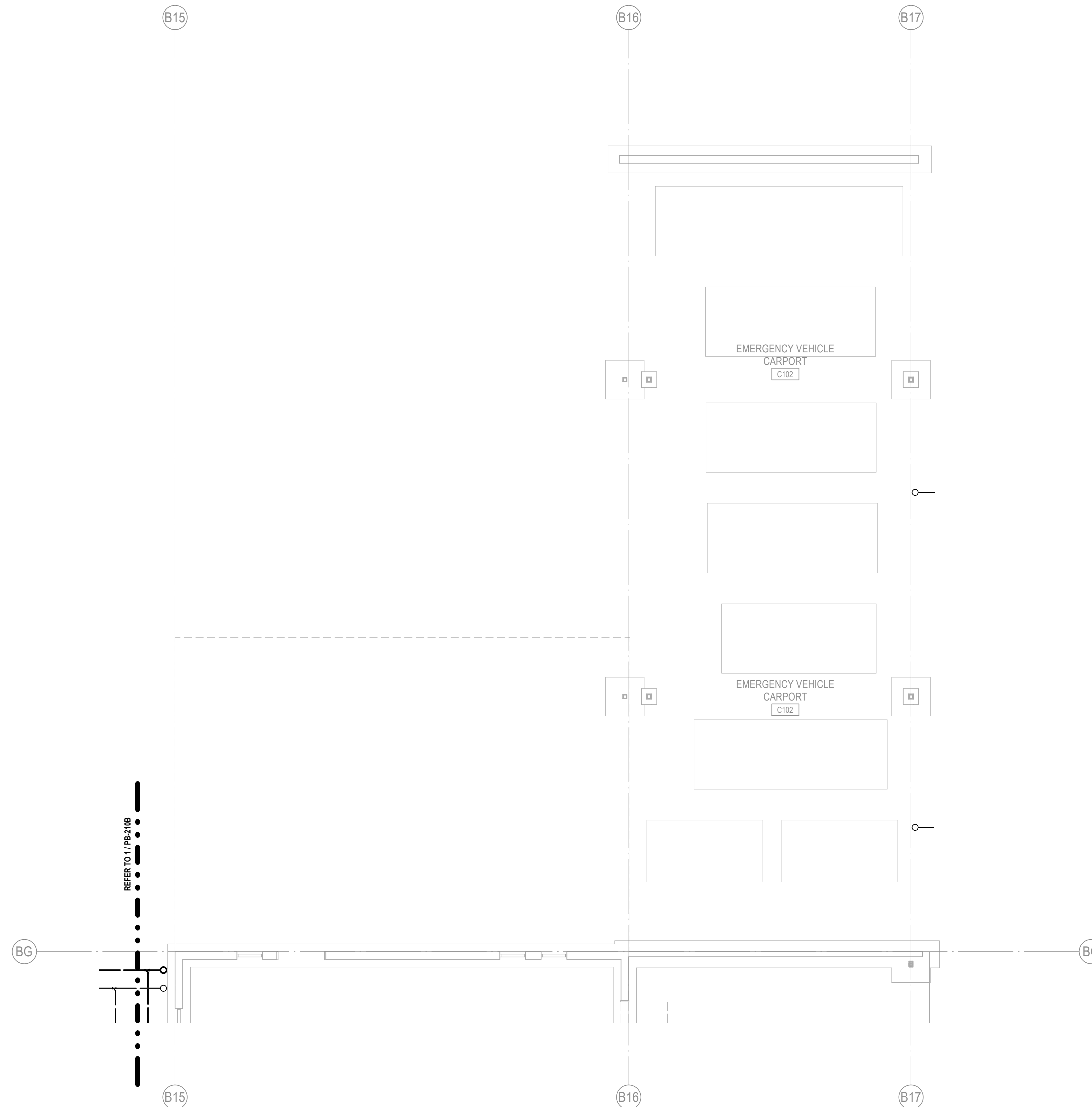
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1 BUILDING B - PLUMBING PARTIAL UNDERGROUND PLAN - CARPORT
1/8" = 1'-0"

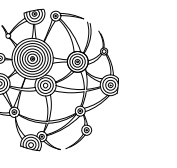
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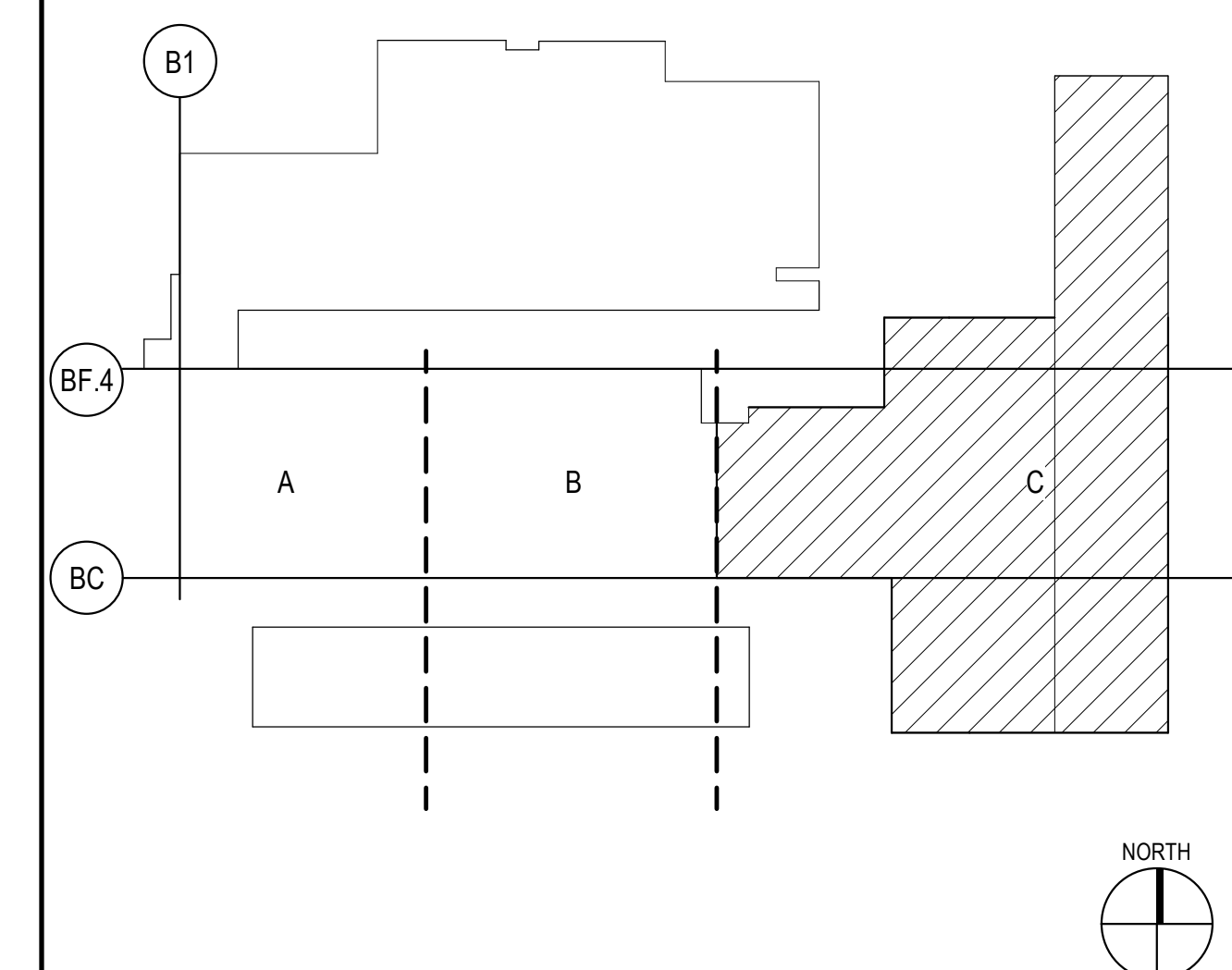
CLIENT
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COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?000000?
Building No: ?00?
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KEY PLAN



TITLE
**BUILDING B - PLUMBING
PARTIAL
UNDERGROUND PLAN -
CARPORT**

SHEET
PB-210D

0 1/4" 1/2" 1"

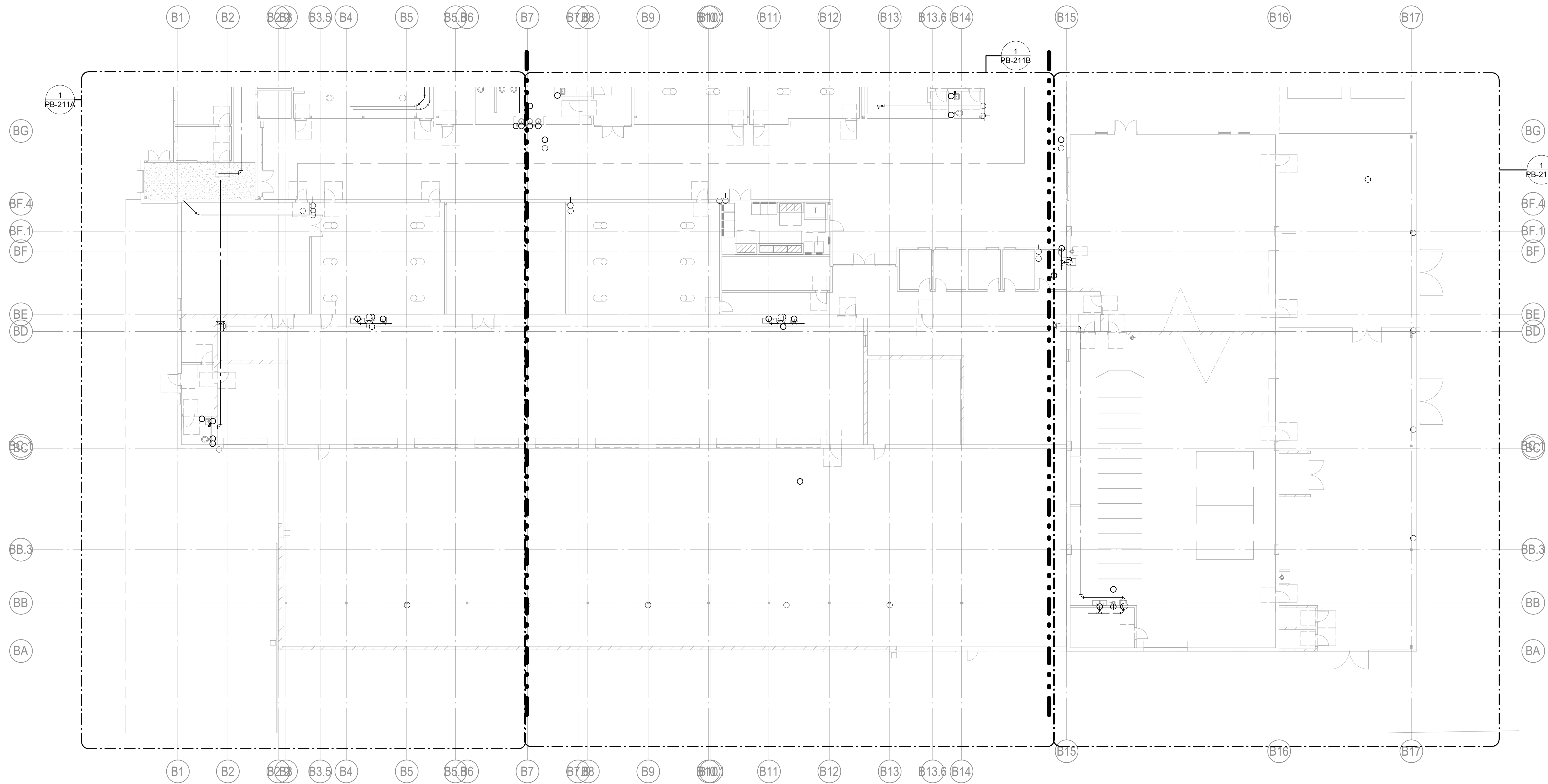
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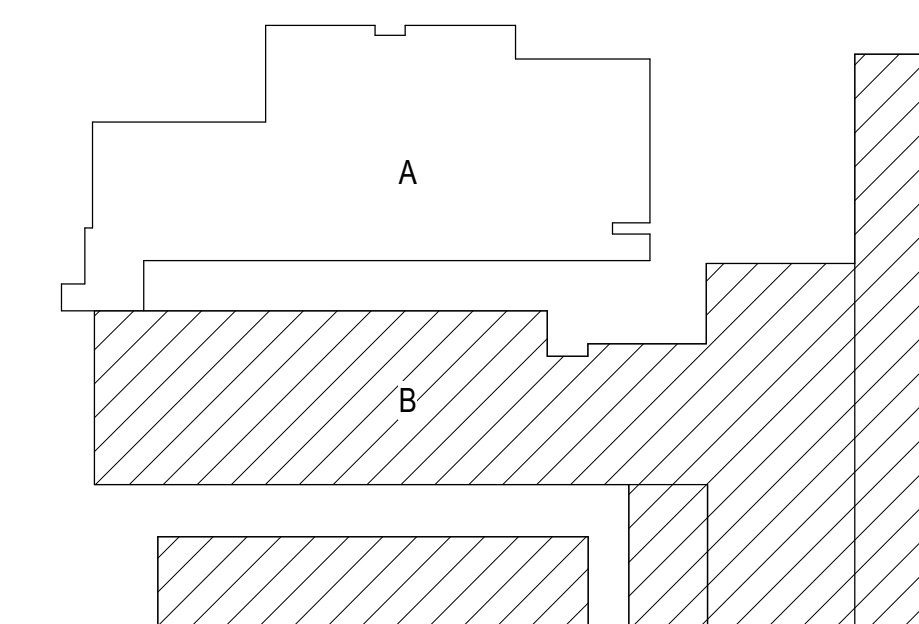


1 BUILDING B - PLUMBING OVERALL FLOOR PLAN
1/16" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN

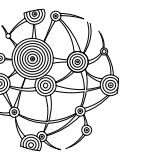


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 LIVERMORE, CA 94551

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 COLLEGE DISTRICT
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 DUBLIN, CA 94568

Facility No: ?00000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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 CLIENT PROJECT NO: -
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TITLE
**BUILDING B - PLUMBING
 OVERALL FLOOR PLAN**

SHEET
PB-211

0 1/4" = 1'-0"

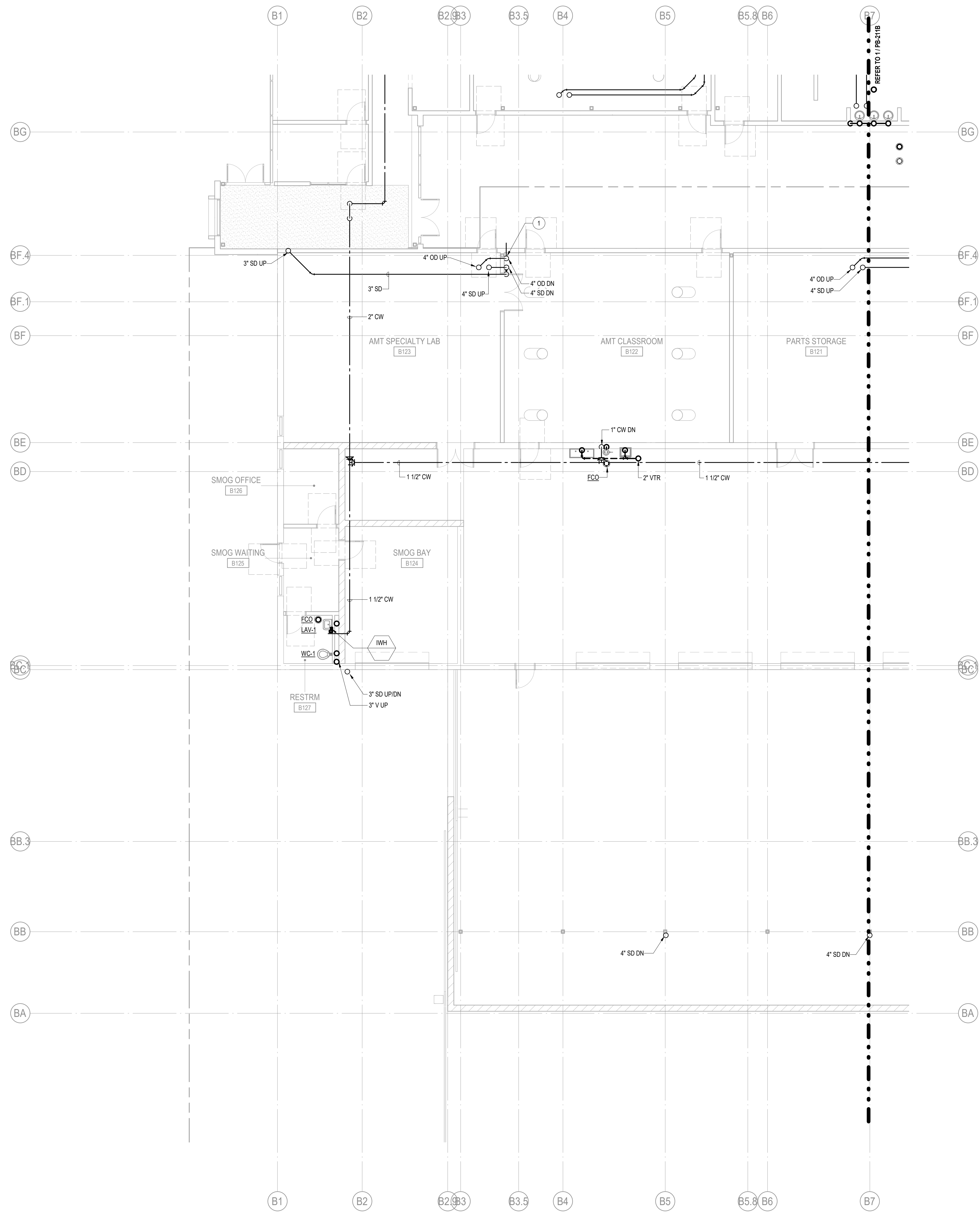
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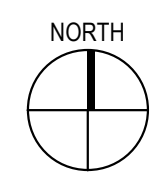
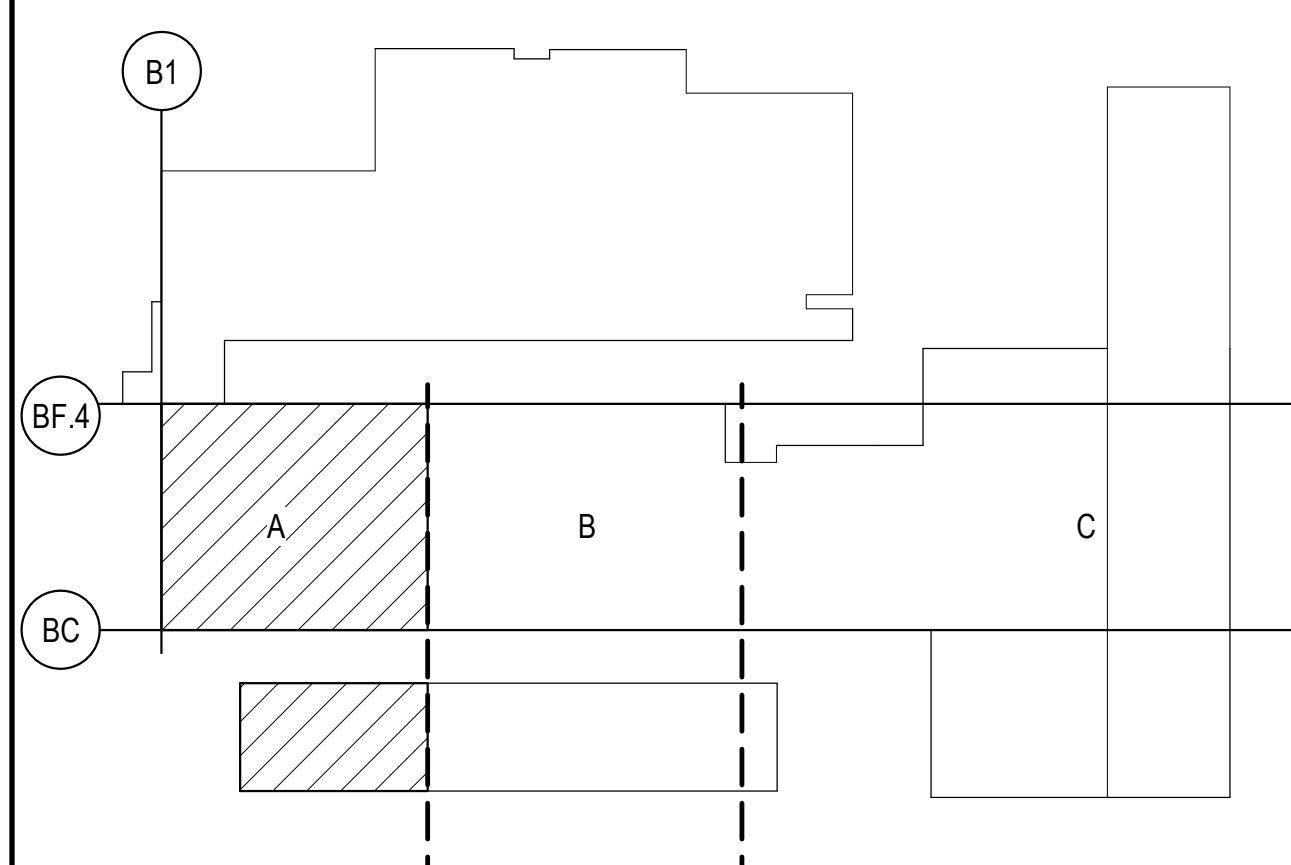
1 BUILDING B - PLUMBING PARTIAL FLOOR PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

- 1. OD DROP TO DISCHARGE 1'-0" ABOVE FINISHED GRADE ON CONCRETE PAD WITH DSN-1

KEY PLAN



FILE NO. ?XX-XXXX?
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 1919 Nineteenth Street
 Sacramento CA 95811
 P 916.558.1900 F 916.558.1919
 www.lionakis.com

CONSULTANT

INTEGRAL

427 13th Street
 Oakland, CA 94612
 510.663.2070 Telephone
 E-Mail: info@integralgroup.com
 www.integralgroup.com

PROJECT
**PUBLIC SAFETY COMPLEX /
 ADVANCED MANUFACTURING AND
 TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: ?00000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING B - PLUMBING
 PARTIAL FLOOR PLAN -
 AREA A**

SHEET
PB-211A

0 1/4" = 1'

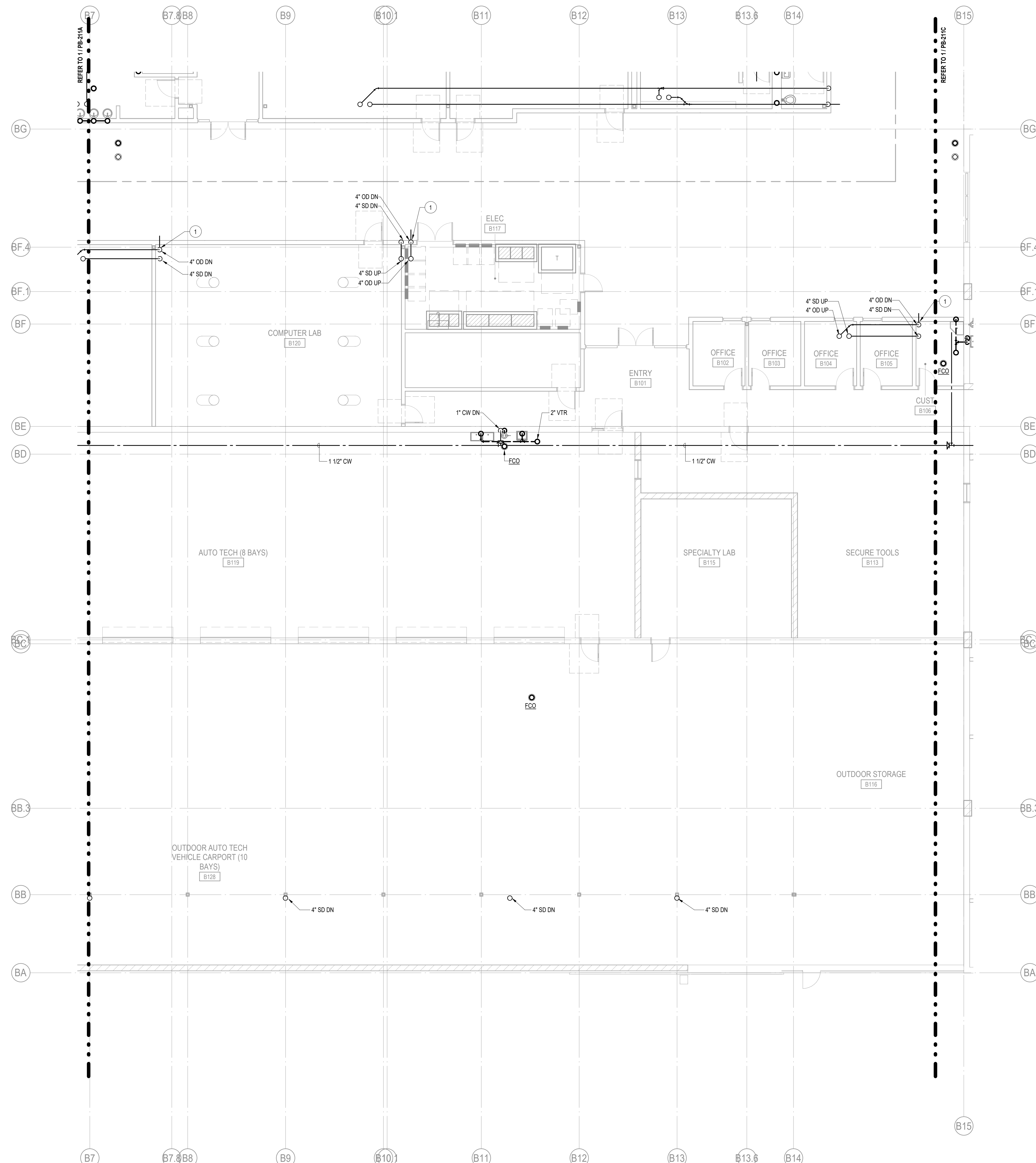
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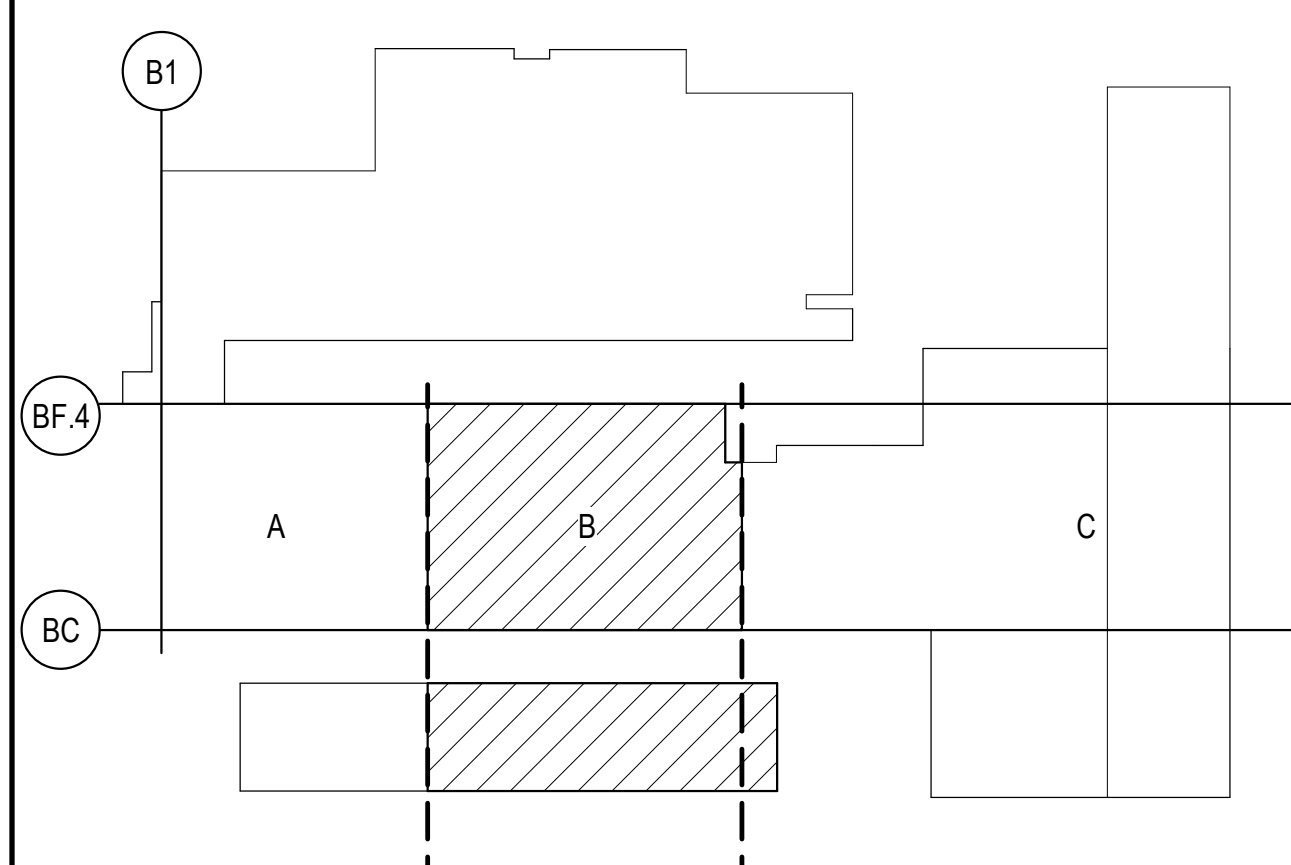
1 BUILDING B - PLUMBING PARTIAL FLOOR PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

- 1. OD DROP TO DISCHARGE 1'-0" ABOVE FINISHED GRADE ON CONCRETE PAD WITH DSN-1

KEY PLAN



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TITLE
**BUILDING B - PLUMBING
 PARTIAL FLOOR PLAN -
 AREA B**

SHEET
PB-211B

0 1/4" = 1'-0"

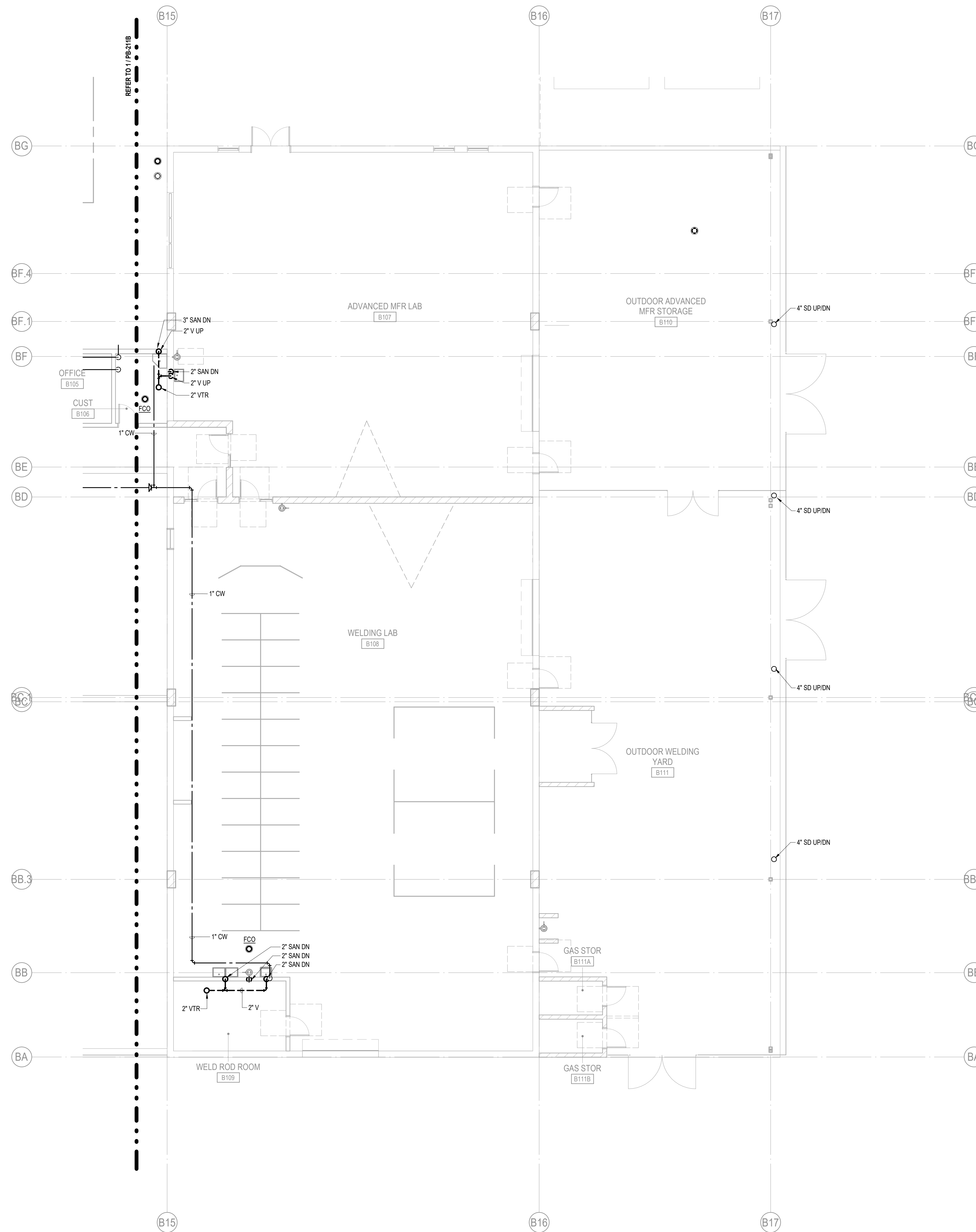
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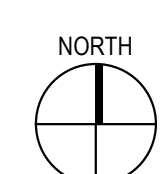
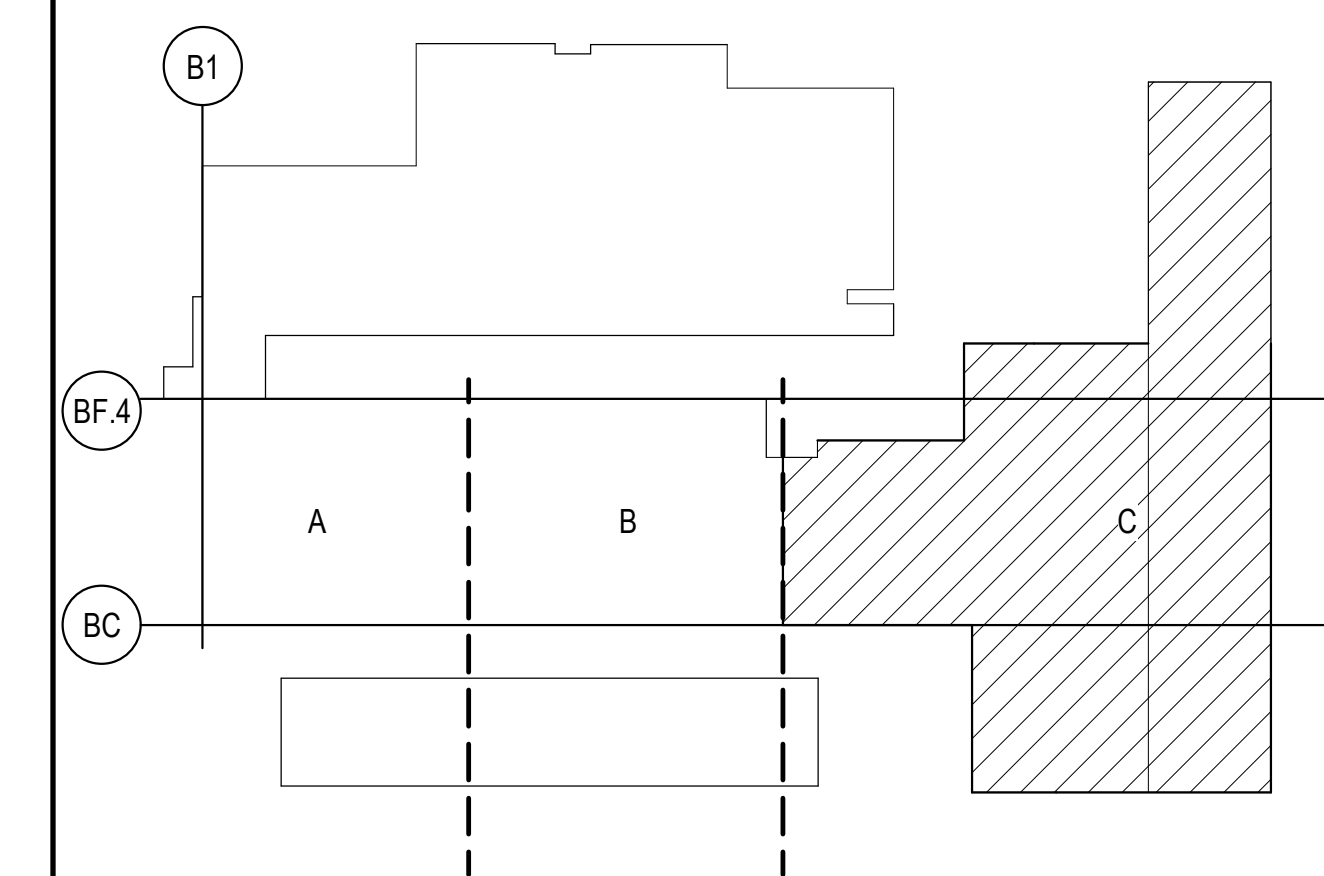


1 BUILDING B - PLUMBING PARTIAL FLOOR PLAN - AREA C
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN



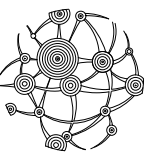
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LIONAKIS

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Sacramento CA 95811
P 916.558.1900 F 916.558.1919
www.lionakis.com

CONSULTANT



INTEGRAL

427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
www.integralgroup.com

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LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

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Building No: ?00?
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TITLE
BUILDING B - PLUMBING
PARTIAL FLOOR PLAN -
AREA C

SHEET
PB-211C

0 1/4" 1/2" 1"

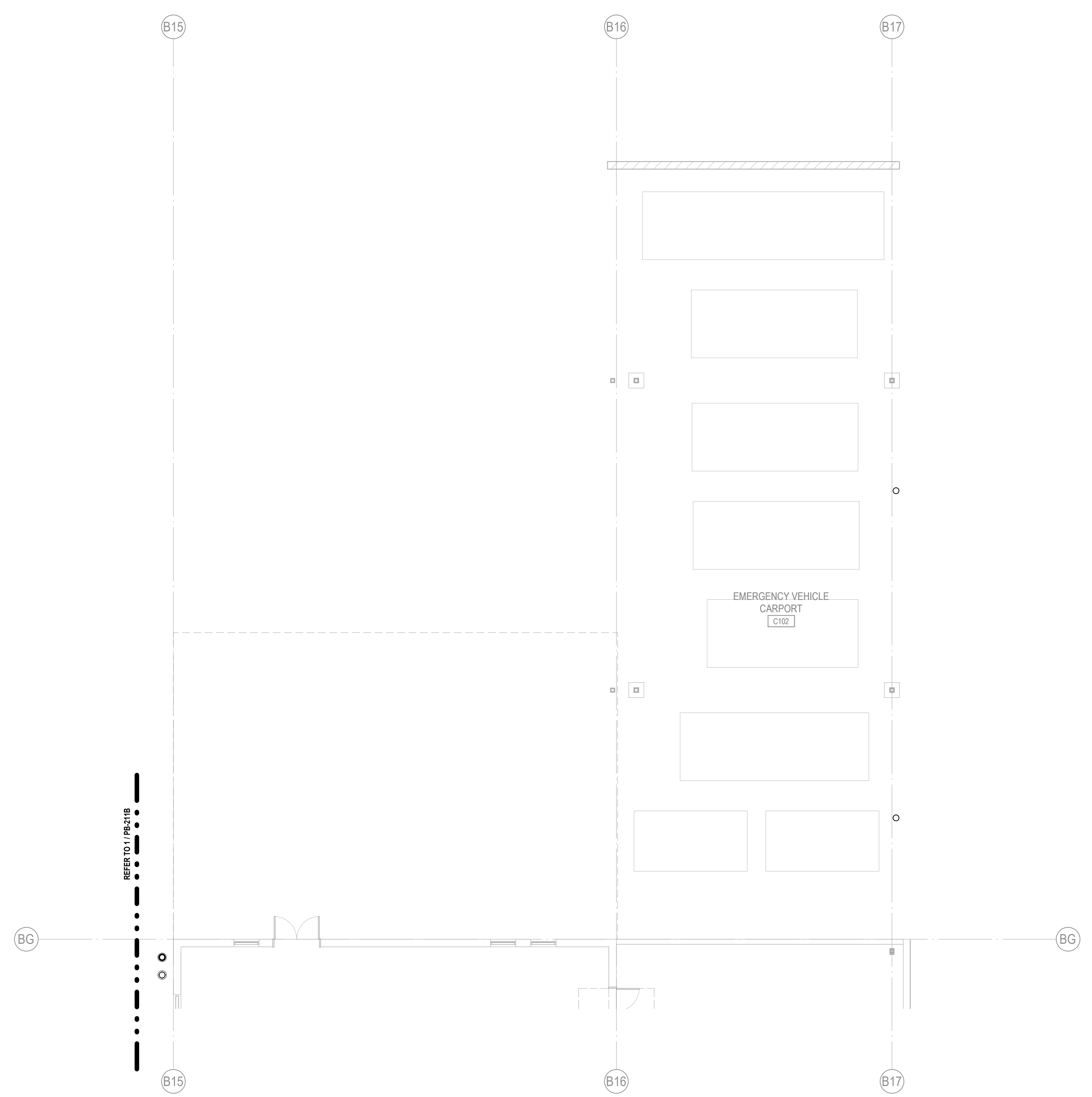
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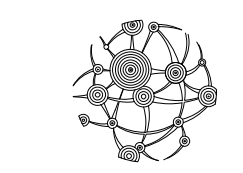
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1 BUILDING B - PLUMBING PARTIAL FLOOR PLAN - CARPORT
1/8" = 1'-0"

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LIONAKIS
 1919 Nineteenth Street
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 P 916.558.1900 F 916.558.1919
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 427 13th Street
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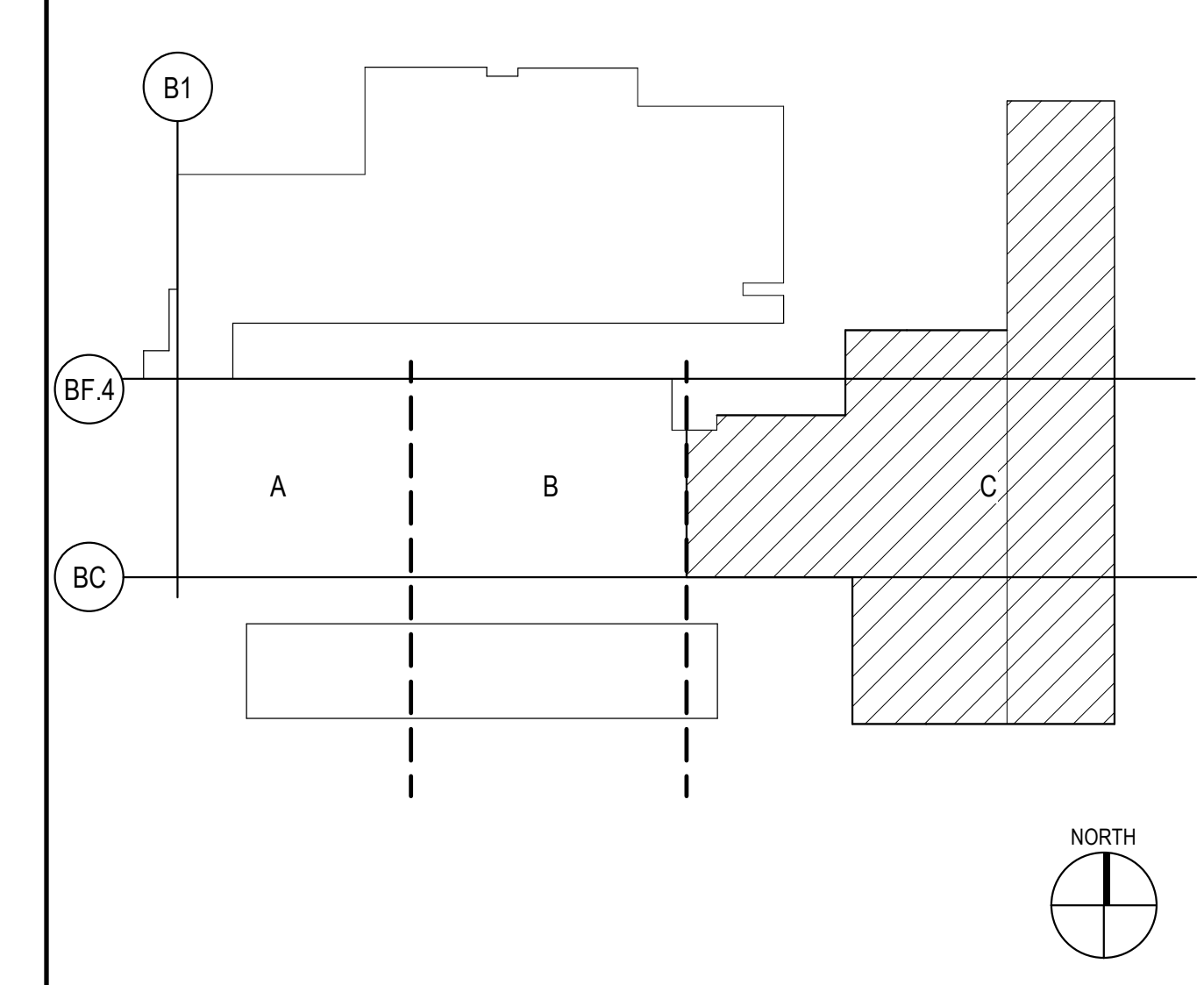
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 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: ?00000?
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 OSHPD No: ?P-2016-XXXXXX?

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KEY PLAN



TITLE
**BUILDING B - PLUMBING
 PARTIAL FLOOR PLAN -
 CARPORT**

SHEET
PB-211D

MECHANICAL ABBREVIATIONS

Table of mechanical abbreviations including ACU, AFF, AHU, AL, ARCH, ASHRAE, ASME, ASTM, AW, BLDG, BOD, BOP, BOS, BRD, CAV, CC, CDW, CFM, CHW, CLG, CBC, CH, CI, CT, CU, CL, COL, CONC, CONT, CW, DB, DH, DIM, DIA, DN, DWG, (E), (ER), EAT, EF, EL, ELEC, ET, EW, EWT, EXH, (F), FOU, FD, FFE, FLR, FM, FOB, FOT, FPM, FS, FSD, FT, GPM, GR, GV, HC, HHW, HORIZ, HVAC, HW, HK, I, ID, IN, KW, LAT, LWT, LBV, MAX, MER, MIN, (N), N/A, NFPA, NG, NO, NPT, NTS, OPMG, OS, P, PPG, POC, PRV, PSI, PSIA, PSIG, PSC, PTC, QTY, (R), RA, RAH, RC, RD, SA, SC, SCFM, SCHD, SD, SF, SIM, SMACNA, SMC, SMC(S), ST, STD(S), TA, TE, TEMP, TI, TOS, TYP, UH, UHO, URINAL, V, VAV, VBR, VERT, VFD, VFR, VTR, W, W/O, WB, WC, WH, WHD, WT, WTD, WT

MECHANICAL GENERAL NOTES

- 1. EXACT LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES ARE DETAILED ON THE ARCHITECTURAL REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS.
2. EXACT LOCATION OF ALL ROOF AND STRUCTURAL OPENINGS SHALL BE COORDINATED WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.
3. MECHANICAL EQUIPMENT PLATFORMS AND ROOF CURBS SHALL BE AS INDICATED ON THE STRUCTURAL PLANS. THE CONTRACTOR SHALL COORDINATE EXACT SIZES OF REQUIRED OPENING AND SUPPORTS FOR FURNISHED EQUIPMENT. SEE ARCHITECTURAL PLANS FOR ROOFING AND FLASHING.
4. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS. WHETHER THEY ARE SHOWN ON THE DRAWINGS OR NOT. PROVIDE REMOTE DAMPER OPERATORS SUCH AS YOUNG'S REGULATOR OR EQUAL WHEN DAMPERS ARE LOCATED ABOVE INACCESSIBLE CEILING.
5. ALL EQUIPMENT, DUCTS PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
6. ALL APPLIANCES AND PLUMBING VENTS SHALL TERMINATE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE (3) FEET ABOVE OUTSIDE AIR INTAKES.
7. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE LOCAL REGULATIONS AND PROCEDURES DETAILED IN THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA)
8. PENETRATIONS OF PIPES, CONDUITS, ETC. IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED.
9. FIRE STOP MATERIAL SHALL BE A UL-LISTED ASSEMBLY APPROVED BY THE FIRE MARSHAL.
10. DUCT/PPIPE INSULATION AND DUCT LINING MATERIAL SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED. DUCT AND PIPE LABELS LOCATED IN THE CEILING SPACE USED AS RETURN AIR PLENUM SHALL COMPLY WITH THE SAME REQUIREMENTS.
11. DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS ELBOWS OR OTHER ELEMENTS WHICH MAY BE REQUIRED. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION, WITH NO ADDITIONAL COST TO THE OWNER.
12. ALL SUPPLY AND EXHAUST AIR EQUIPMENT SHALL INCORPORATE DAMPERS THAT AUTOMATICALLY CLOSE DURING PERIODS OF NON-USE. THE DAMPERS SHALL BE EITHER MOTORIZED OR OF THE GRAVITY TYPE AS INDICATED ON DRAWINGS OR SPECIFIED.
13. DUCT SIZES INDICATED ON DRAWINGS REPRESENT NET INSIDE DIMENSIONS.
14. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME-SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE-DEVELOPED INDEX NOT GREATER THAN 50, WHEN TESTED AS A COMPOSITE PRODUCT PER TEST METHODS LISTED IN CHAPTER 6 OF THE CMC.
15. COMBUSTION AIR OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT SCREEN NOT SMALLER THAN 1/4 INCH MESH.
16. REFRIGERANT SERVICE PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING TYPE TAMPER RESISTANT CAPS OR SHALL BE PROTECTED FROM UNAUTHORIZED ACCESS BY AN ACCEPTABLE MEANS.
17. OUTDOOR AIR INTAKE OPENINGS SHALL BE COVERED WITH A SCREEN HAVING NOT LESS THAN 1/4-INCH OPENINGS AND NOT MORE THAN 1/2 INCH OPENINGS, UNLESS NOTED OTHERWISE.
18. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATING EQUIPMENT, ALL DUCTS AND OF THE RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM.
19. HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS (INCLUDING HYDRONIC SYSTEMS) SHALL BE BALANCED IN ACCORDANCE WITH AN APPROVED METHODS PER SECTION 317.1 OF THE CALIFORNIA MECHANICAL CODE.
20. ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO, BUILDING CAVITIES, MECHANICAL CLOSETS, AIR-HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS SHALL BE INSTALLED, SEALED, AND INSULATED TO MEET THE REQUIREMENTS OF CHAPTER 6 OF THE CMC.
21. SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 (R-8 IF INSTALLED IN AN UNCONDITIONED SPACE) UNLESS DUCTS ARE IN CONDITIONED SPACE OR NOTED OTHERWISE.
22. THE PIPING FOR ALL SPACE CONDITIONING AND SERVICE WATER HEATING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH TABLE 120.3-A OF THE ENERGY EFFICIENCY STANDARDS.
23. THE MINIMUM RATE OF OUTDOOR AIR REQUIRED PER SECTION 120.1(B) 2 SHALL BE SUPPLIED TO EACH SPACE AT ALL TIME THE SPACE IS USUALLY OCCUPIED.
24. THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SEC. 120.1(B) 2, OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE ONE-HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED.
25. THE THERMOSTATIC CONTROLS FOR HVAC SYSTEMS SHALL MEET THE FOLLOWING REQUIREMENTS AS APPLICABLE:
A. EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE AND MEETS THE FOLLOWING:
B. EACH THERMOSTATIC CONTROL SHALL BE CAPABLE OF BEING SET LOCALLY OR REMOTELY BY ADJUSTMENT OR SELECTION OF SENSORS TO CONTROL:
1. COMFORT HEATING DOWN TO 55° OR LOWER
2. COMFORT COOLING UP TO 85° OR HIGHER
3. BOTH HEATING AND COOLING, THE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 5° WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM.
26. DUCT SYSTEMS USED WITH BLOWER TYPE EQUIPMENT WHICH ARE PORTIONS OF A HEATING, COOLING, ABSORPTION, EVAPORATIVE COOLING OR OUTDOOR AIR VENTILATION SYSTEM SHALL BE SIZED IN ACCORDANCE WITH STANDARDS LISTED IN CHAPTER 17 OF THE 2013 CALIFORNIA MECHANICAL CODE.
27. SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR FOR HEATING, COOLING, OR EVAPORATIVE COOLING SYSTEMS SHALL BE CONDUCTED THROUGH DUCT SYSTEMS CONSTRUCTED OF METAL AS SET FORTH IN THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, OR ANOTHER APPROVED DUCT CONSTRUCTION STANDARD.
28. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2,000 CFM SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF ACTIVATED BY SMOKE DETECTOR LOCATED IN THE MAIN SUPPLY-AIR DUCT. A SYSTEM MAY INCLUDE MORE THAN ONE PIECE OF AC UNIT WHICH SERVES A COMMON SPACE WITH AGGREGATE SUPPLY AIR OF MORE THAN 2,000 CFM.
29. HYDRONIC PIPING SHALL COMPLY WITH CHAPTER 12 PART 1 OF THE 2013 CALIFORNIA MECHANICAL CODE.
30. PRIOR TO PERMIT BEING FINALED, A COMPLETE REPORT OF THE TESTING AND ADJUSTING SHALL BE PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE AND FACILITIES OPERATOR AND FORM TESTING AND ADJUSTING SHALL BE COMPLETED AND PROVIDED TO THE INSPECTOR.
31. PRIOR TO PERMIT BEING FINALED, A COMPLETE REPORT OF THE COMMISSIONING PROCESS SHALL BE PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE AND FACILITIES OPERATOR, AND FORM VERIFICATION SHALL BE COMPLETED AND PROVIDED TO THE INSPECTOR.
32. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, PROVIDE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30 PERCENT, BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION.
33. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF WATER, DUST, AND DEBRIS WHICH MAY COLLECT/ENTER IN THE SYSTEM.
34. ALL MECHANICAL EXHAUST FANS IN ROOMS WITH A BATHTUB OR SHOWER SHALL COMPLY WITH THE FOLLOWING:
A. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING
B. FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL, CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 45% TO A MAXIMUM OF 80% UNLESS FUNCTIONING AS A COMPONENT OF A WHOLEHOUSE VENTILATION SYSTEM

CALIFORNIA CODES AND STANDARDS

- 1. 2016 CALIFORNIA BUILDING CODE
2. 2016 CALIFORNIA ELECTRICAL CODE
3. 2016 CALIFORNIA MECHANICAL CODE
4. 2016 CALIFORNIA PLUMBING CODE
5. 2016 CALIFORNIA ENERGY CODE
6. 2016 CALIFORNIA FIRE CODE

OWNERSHIP OF INSTRUMENTS OF SERVICE

- 1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THEREOF.
2. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS COLLECTIVELY, AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT.

CALIFORNIA GREEN NOTES:

- 1. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. (CAL GREEN SECTION: 5.504.3)
2. IN MECHANICALLY VENTILATED BUILDINGS, REGULARLY OCCUPIED AREAS OF THE BUILDING SHALL BE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 5. MERV FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. (CAL GREEN SECTION: 5.504.5.3)
3. INSTALLATIONS OF HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CHLOROFLUOROCARBONS (CFCs) AND SHALL NOT CONTAIN HALONS (SECTION: 5.508.1).
4. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CFR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

MECHANICAL LEGEND

MECHANICAL LEGEND containing: DUCT (various types and transitions), EQUIPMENT (PLAN) (PUMP, EXHAUST FAN, SOUND ATTENUATOR, VENTILATOR, FAN COIL UNIT, etc.), PIPE LINE DESIGNATIONS (PIPE DROP, RISE, TEE, etc.), AIRSIDE EQUIPMENT (UPBLAST FAN, GRAVITY VENTILATOR, etc.), VALVES AND HYDRONIC ACCESSORIES (PRESSURE REDUCING VALVE, BALL VALVE, etc.), ROOM SENSORS (PLAN) (THERMOSTAT, CO2 SENSOR, etc.), AIR TERMINAL UNITS (CEILING, FLOOR), AIR TERMINALS (DIFFUSERS, REGISTERS, GRILLES), AIR SYSTEM AND DIRECTION, ELECTRICAL OR NETWORK EQUIPMENT (BACNET, VFD).

CONTROL VALVES & ACTUATORS

- 2-WAY CONTROL VALVE, 2-POS
2-WAY CONTROL VALVE, MODULATING
SOLENOID CONTROL VALVE, 2-POS
3-WAY CONTROL VALVE, 2-POS
3-WAY CONTROL VALVE, MODULATING
MOTORIZED ACTUATOR, 2 POSITION
MOTORIZED ACTUATOR, MODULATING
THERMOSTATIC ACTUATOR

SENSORS

- TEMPERATURE SENSOR
TEMPERATURE SENSOR WITH THERMOWELL
TEMPERATURE SENSOR AVERAGING
PRESSURE TRANSDUCER
DIFFERENTIAL PRESSURE SENSOR
AIR FLOW MEASUREMENT STATION
FLOW CROSS
CONDENSATION SENSOR
WATER LEAK DETECTOR
BTU METER
FLOW SWITCH
HYDRONIC FLOW METER
HYDRONIC LEVEL SENSOR
ZONE CO2 SENSOR
DEWPOINT SENSOR
RAIN SENSOR
RELATIVE HUMIDITY SENSOR

HYDRONIC EQUIPMENT (DIAGRAMS)

HYDRONIC EQUIPMENT (DIAGRAMS) including: PLANT EQUIPMENT (HEAT PUMP, RADIANT SLAB, CHILLER, BOILER, AIR COOLED CHILLER, HEAT EXCHANGER, COOLING TOWER), ZONE COMPONENTS (RADIANT SLAB MANIFOLD, 2-PIPE CHILLED BEAM, 4-PIPE CHILLED BEAM).

SHEET LIST - MECHANICAL

Table with columns: NUMBER, NAME. Lists sheet titles such as MECHANICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES; BUILDING A - MECHANICAL OVERALL FLOOR PLAN; BUILDING A - MECHANICAL PARTIAL FLOOR PLAN - AREA A, etc.

FILE NO. ??X-XXX?

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT. Form with fields for AC, FL, SS, DATE.

LIONAKIS

1919 Nineteenth Street Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

CONSULTANT

INTEGRAL

427 13th Street Oakland, CA 94612 510.663.2070 Telephone E-Mail: info@integralgroup.com www.integralgroup.com

SEAL

PROJECT PUBLIC SAFETY COMPLEX / ADVANCED MANUFACTURING AND TRANSPORTATION PROJECT

LAS POSITAS COLLEGE 3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

CLIENT CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT 7600 DUBLIN BLVD DUBLIN, CA 94568

Facility No: 7000007 Building No: 7007 OSHPD No: 7P-2016-XXXXXX?

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TITLE MECHANICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES

SHEET M-001

0 1/4" 1/2" 1"

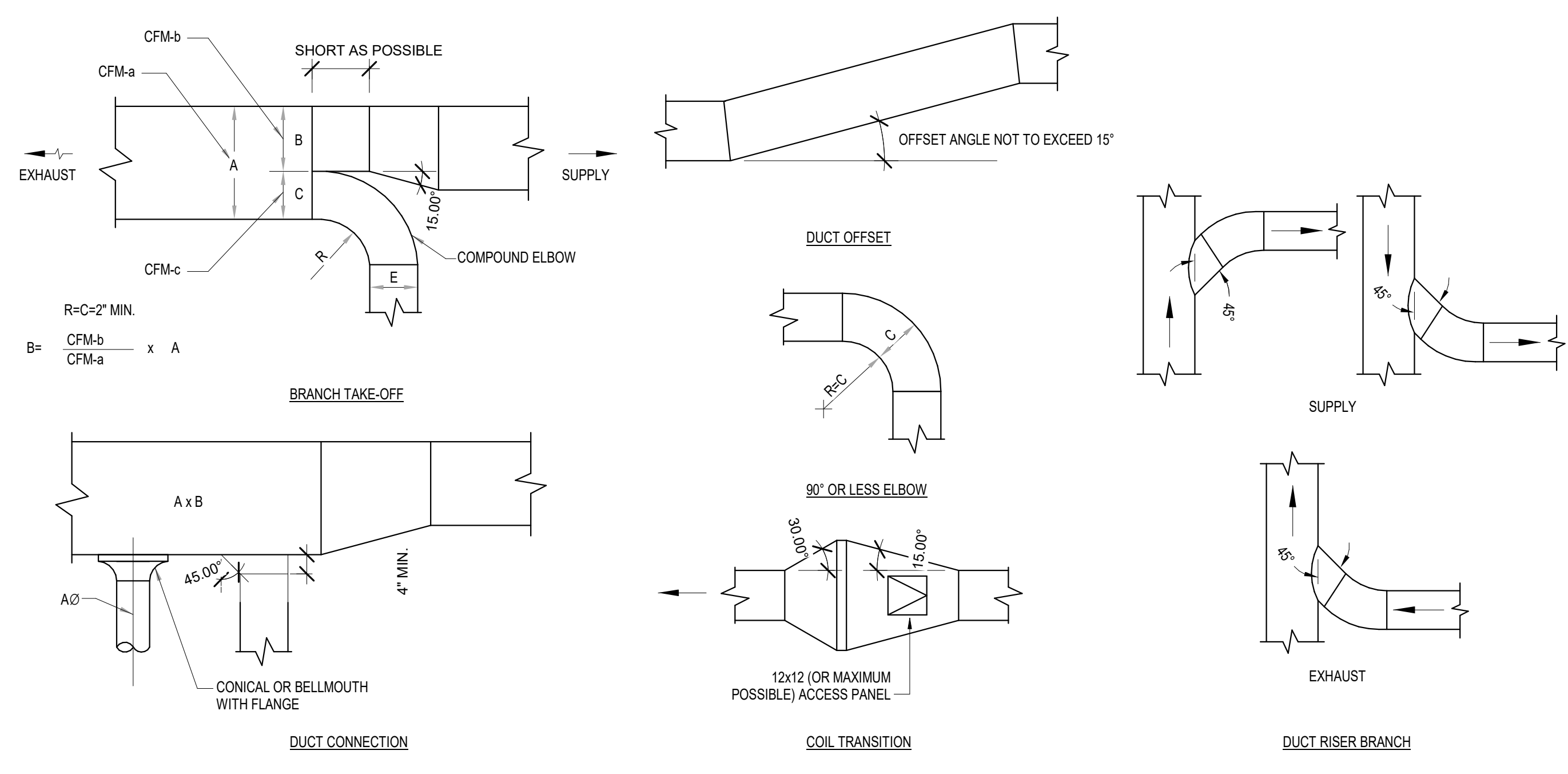
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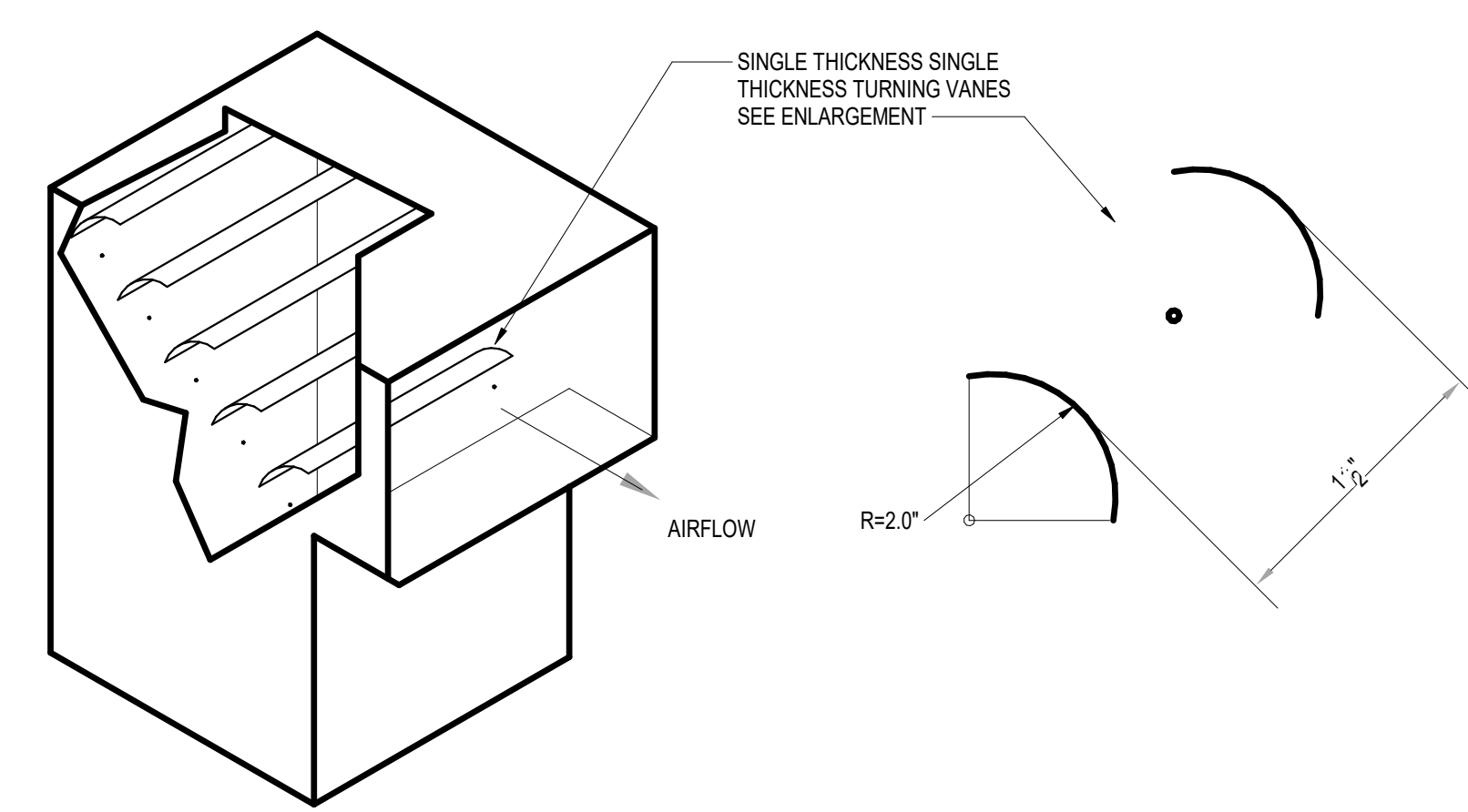
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BM 100.020204 - Lionakis Las Positas PSC-MITIG_LasPositasPSC-AMT_MJP_15.rvt

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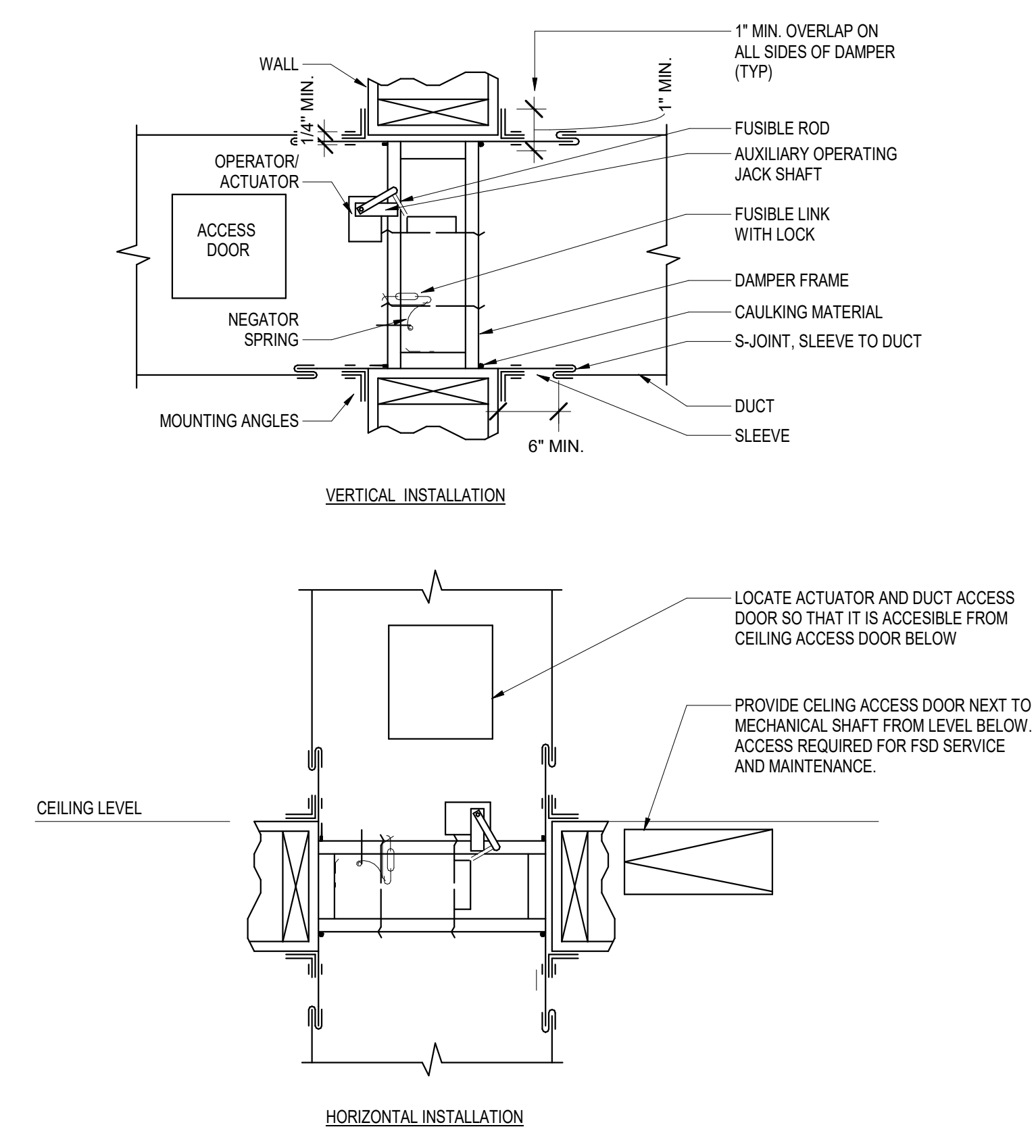


1 LOW PRESSURE DROP DUCT FITTINGS DETAIL
N.T.S.



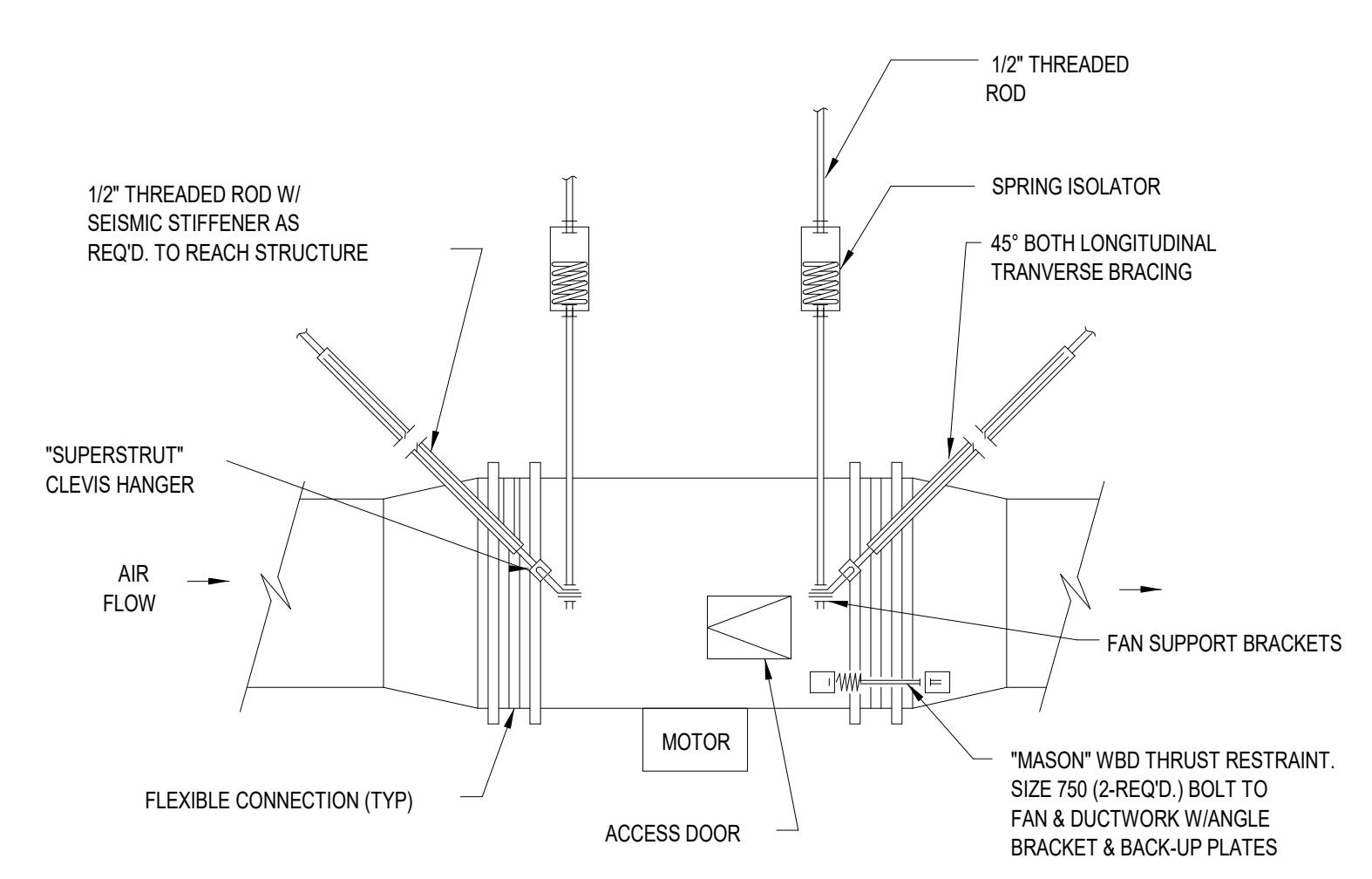
NOTE: TURNING VANES REQUIRED AT ALL 90° RECTANGULAR DUCT ELBOWS UNLESS NOTED OTHERWISE.

2 RECTANGULAR DUCT ELBOW W/ SGL VANE
N.T.S.

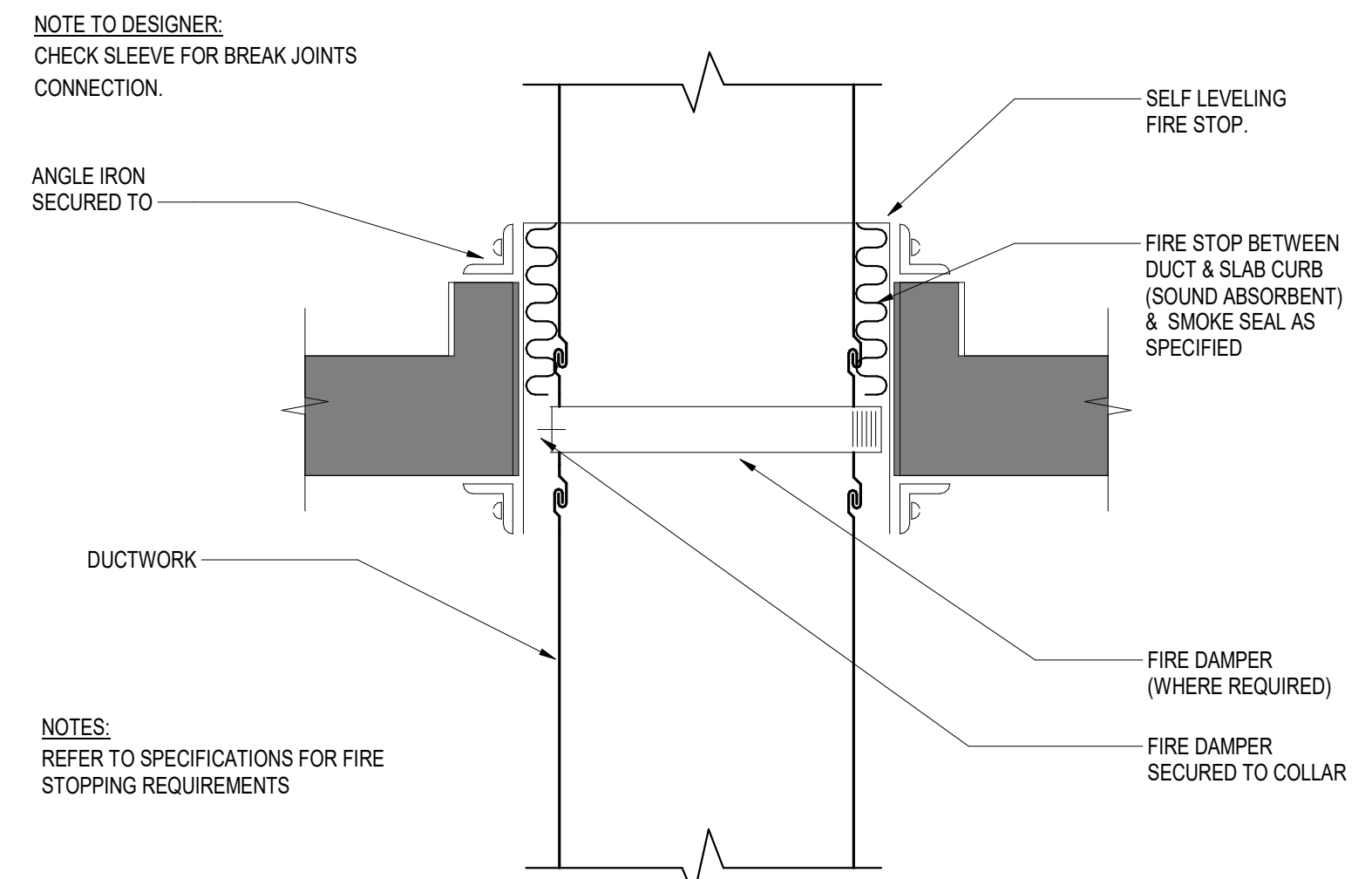


- NOTES:
- MOUNTING ANGLES SHALL BE 1 1/2" x 1 1/2" x 16 GAGE MIN. FASTENED WITH NO. 10 SCREWS 8" ON CENTER.
 - USE ONLY STATE OF CALIFORNIA FIRE MARSHALL LISTED FIRE DAMPERS & INSTALL IN ACCORDANCE WITH STATE FIRE MARSHALL LISTING NO. 3225-245.005 & U.L. STANDARD 555.
 - GENERAL CONTRACTOR SHALL COORDINATE CEILING ACCESS DOORS AS REQUIRED TO ACCESS DAMPER ACCESS DOORS IN DUCT.
 - ACCESS DOOR SHALL BE PROVIDED IN DUCT AND SHALL BE OF ADEQUATE SIZE AND LOCATION TO PERMIT MAINTENANCE & RESETTING OF DAMPER.
 - DAMPER IS TO BE POWERED OPEN AND FAIL CLOSED.
 - DUCT SMOKE DETECTOR AT FSD SHALL SHUT DOWN THE FSD ON DETECTION OF SMOKE DETECTOR PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR.
 - THE DUCT SMOKE DETECTORS FOR THE SMOKE DAMPERS LOCATED AT RATED WALL PENETRATIONS SHALL BE LOCATED WITHIN FOUR (4) FEET ON THE UPSTREAM SIDE OF THE RATED ASSEMBLY, BRANCHES AND REGISTERS OR ANY OTHER OPENING ARE NOT PERMITTED TO BE LOCATED IN THE DUCT BETWEEN THEM SMOKE DETECTOR AND THE RATED WALL.

3 FIRE/SMOKE DAMPER DETAIL
N.T.S.



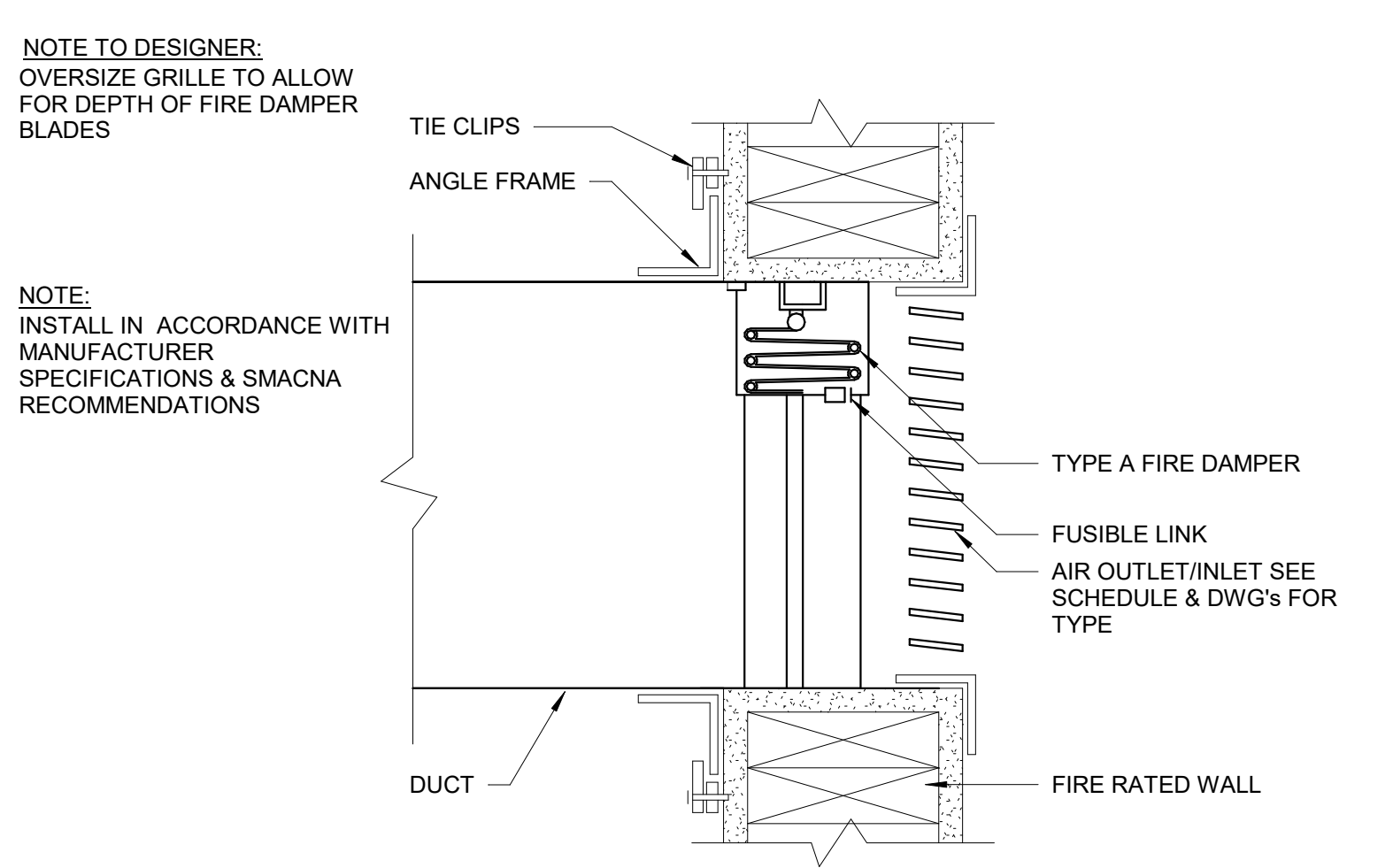
4 INLINE EXHAUST FAN MOUNTING DETAIL
N.T.S.



NOTE TO DESIGNER:
CHECK SLEEVE FOR BREAK JOINTS CONNECTION

NOTES:
REFER TO SPECIFICATIONS FOR FIRE STOPPING REQUIREMENTS

5 DUCT SLEEVE (THROUGH MECH ROOM AND WET FLOORS) DETAIL
N.T.S.



NOTE TO DESIGNER:
OVERSIZE GRILLE TO ALLOW FOR DEPTH OF FIRE DAMPER BLADES

NOTE:
INSTALL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS & SMACNA RECOMMENDATIONS

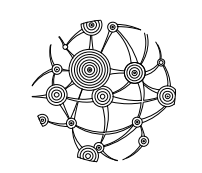
6 VERTICAL FIRE DAMPER / GRILLE DETAIL
N.T.S.

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LIONAKIS

1919 Nineteenth Street
Sacramento CA 95811
P 916.558.1900 F 916.558.1919
www.lionakis.com

CONSULTANT



INTEGRAL

427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
www.integralgroup.com

SEAL

PROJECT
PUBLIC SAFETY COMPLEX /
ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?00000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

ISSUED

MANAGEMENT
LIONAKIS PROJECT NO: 019091
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TITLE
MECHANICAL DETAILS

SHEET
M-501

0 1/4" 1/2" 1"

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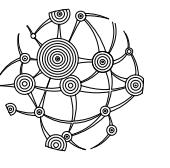
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1919 Ninth Street
Sacramento CA 95811
P 916.558.1900 F 916.558.1919
www.lionakis.com

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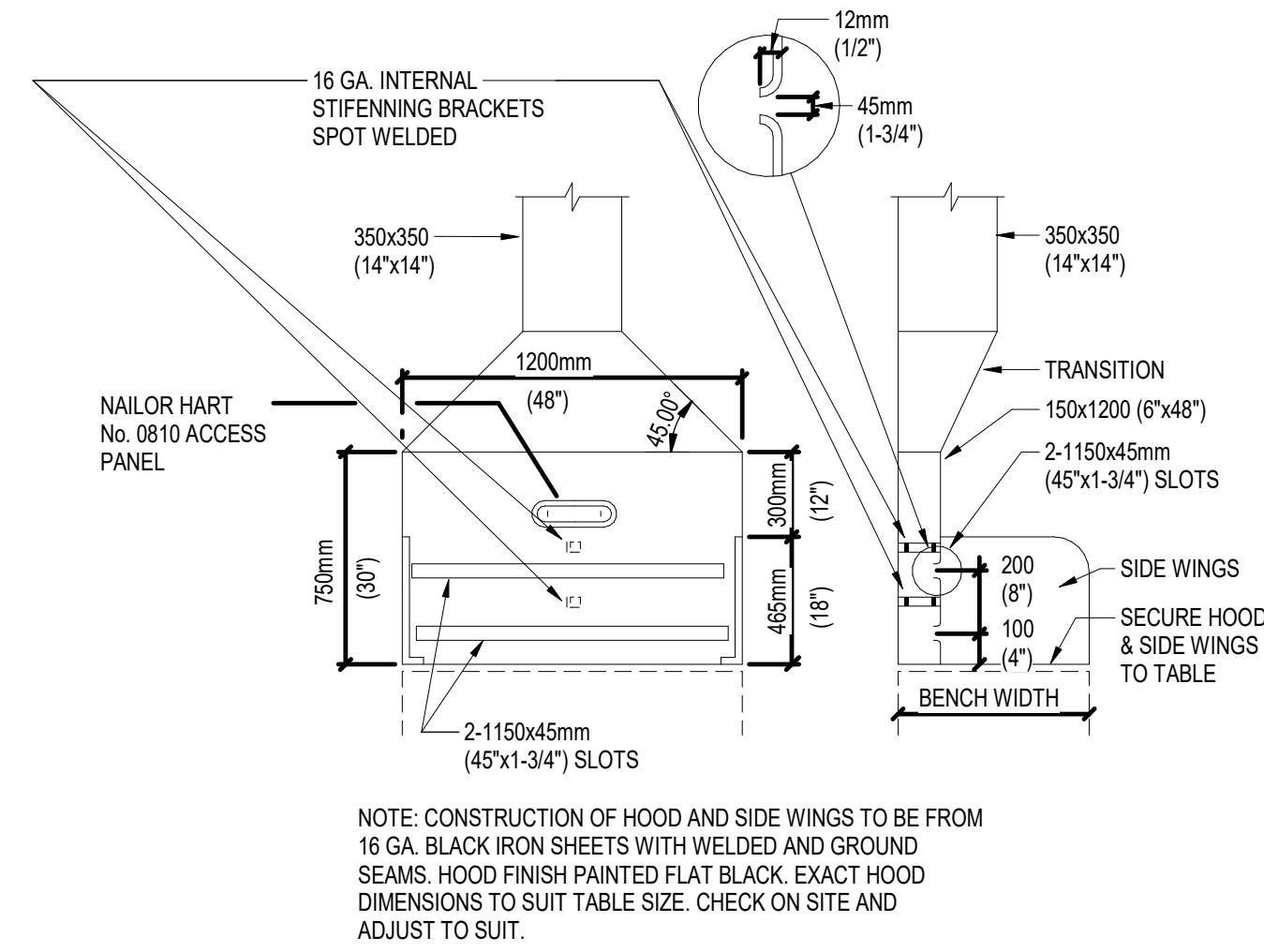
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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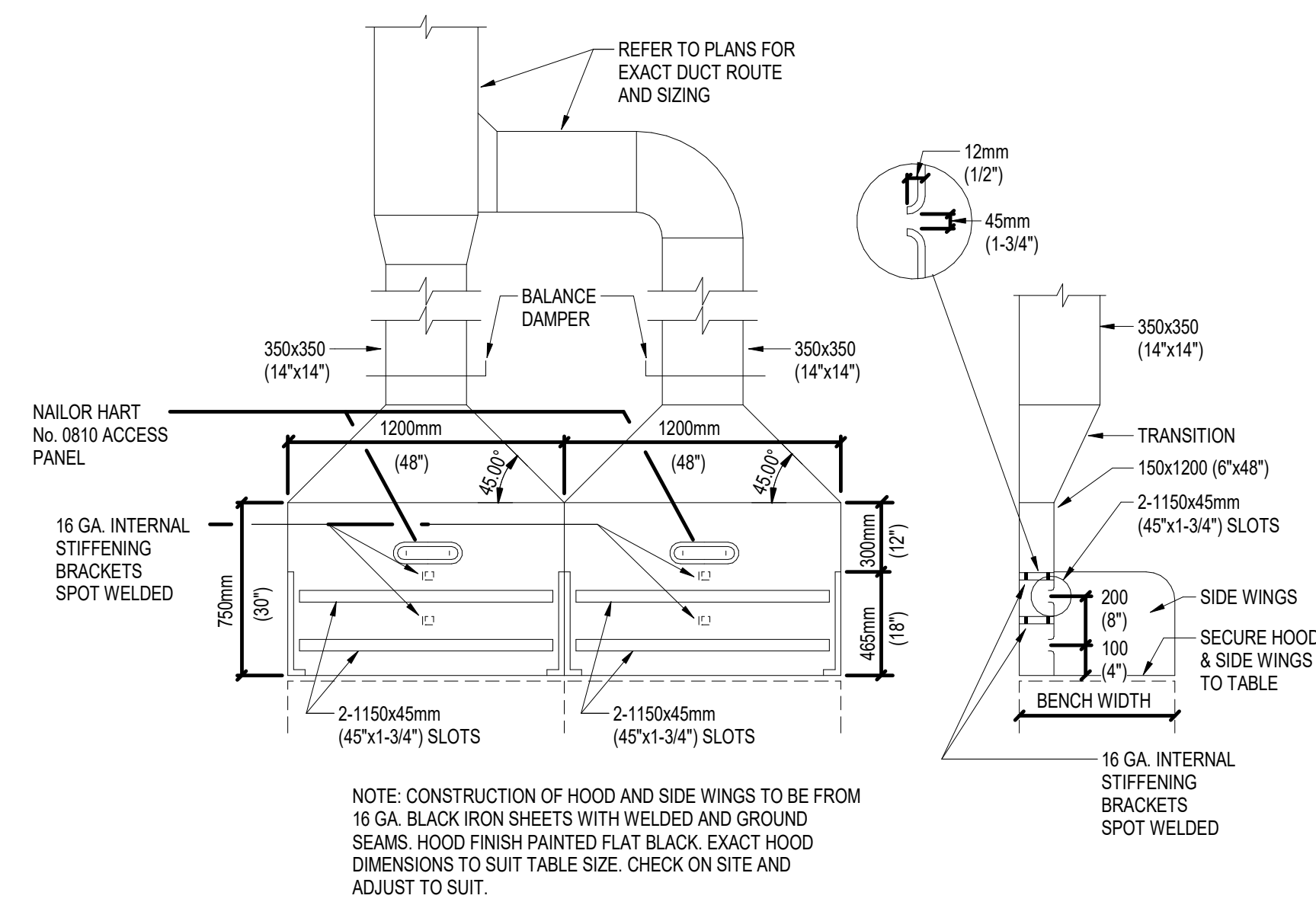
TITLE
MECHANICAL DETAILS

SHEET

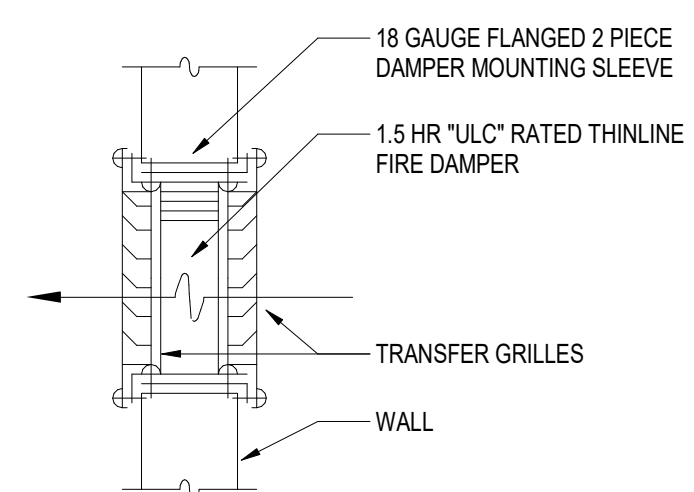
M-503



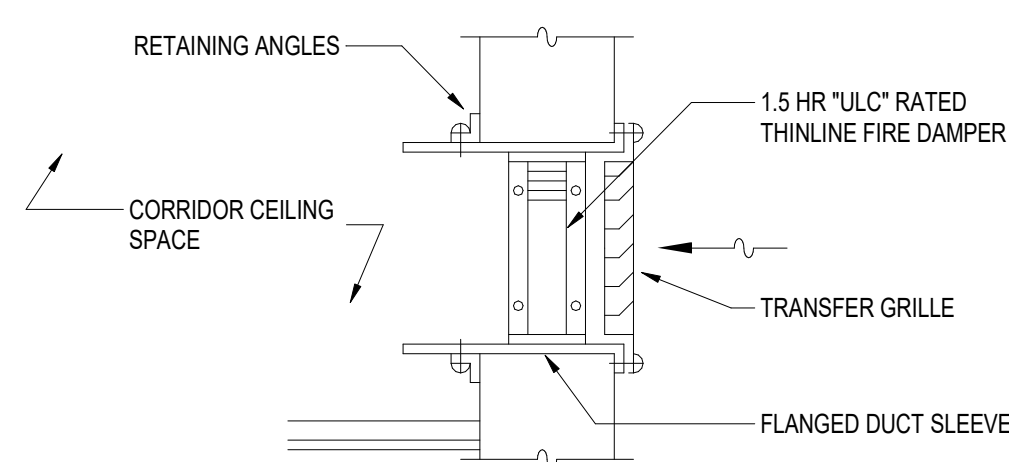
7 ROOF MOUNTED SLOPED PIPE SUPPORT DURABLOCK SLEEPER DETAIL
N.T.S.



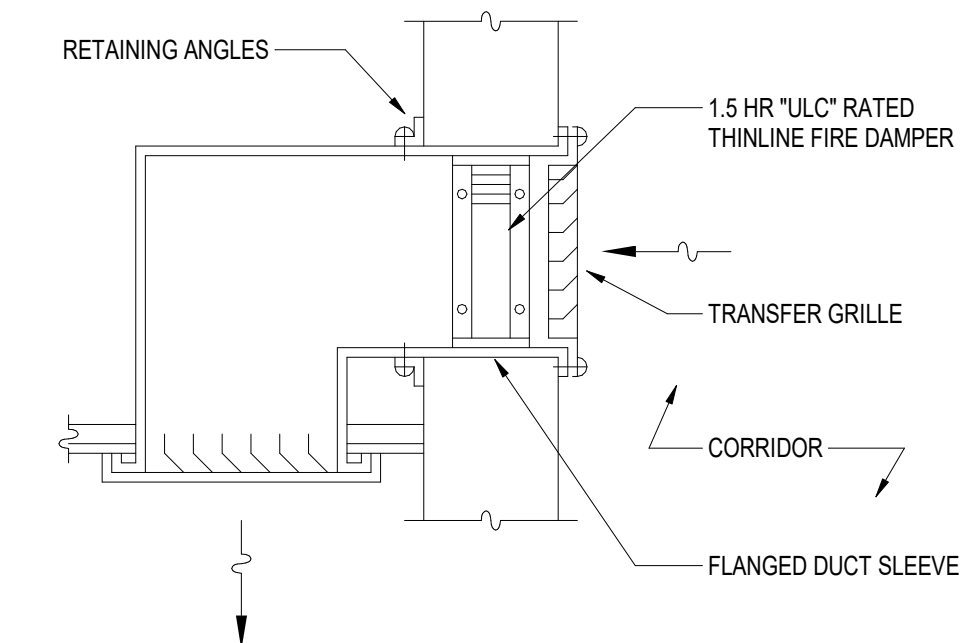
8 ROOF MOUNTED SLOPED PIPE SUPPORT DURABLOCK SLEEPER DETAIL
N.T.S.



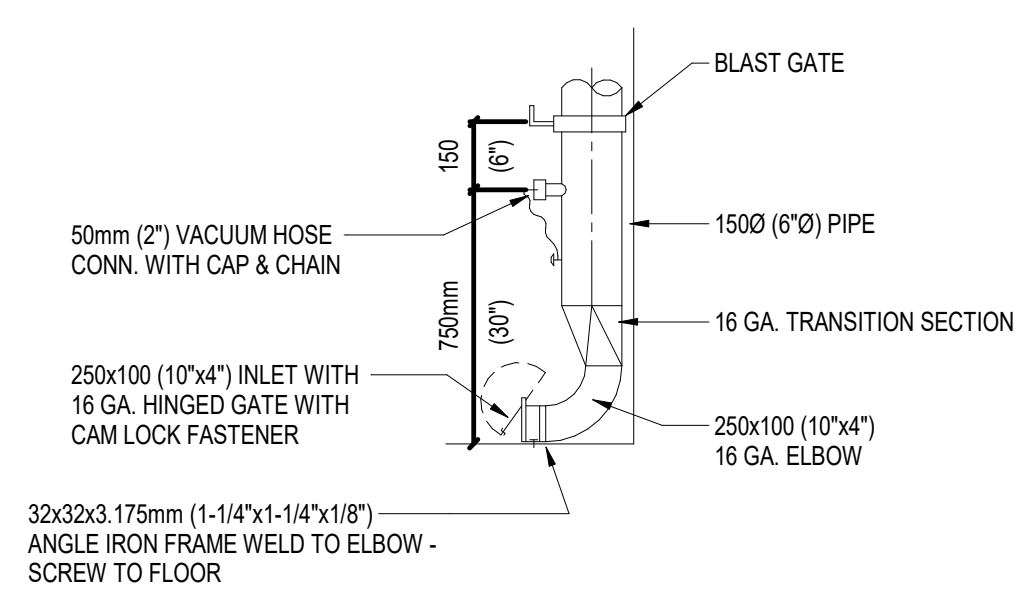
3 ROOF MOUNTED SLOPED PIPE SUPPORT DURABLOCK SLEEPER DETAIL
N.T.S.



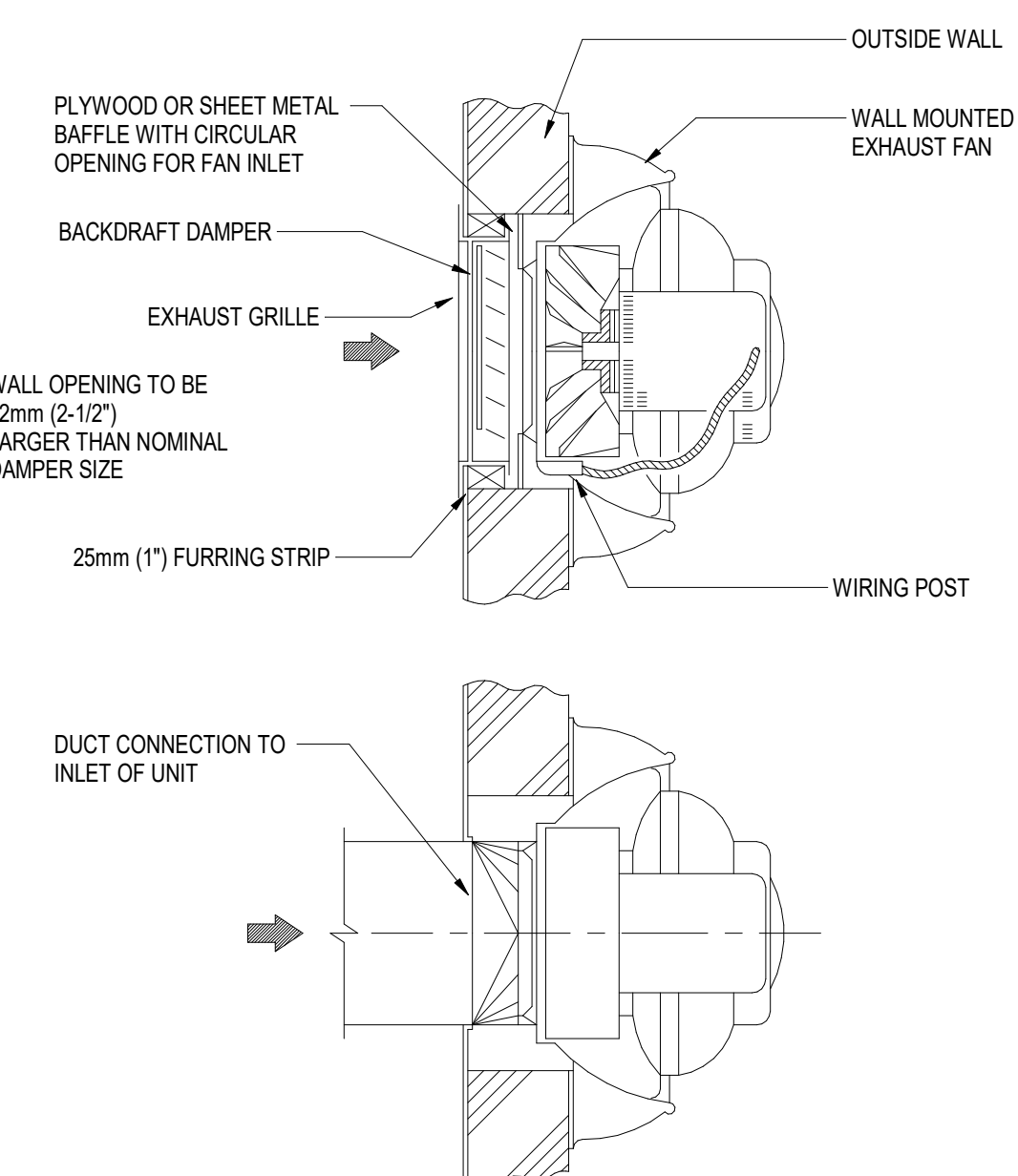
4 ROOF MOUNTED SLOPED PIPE SUPPORT DURABLOCK SLEEPER DETAIL
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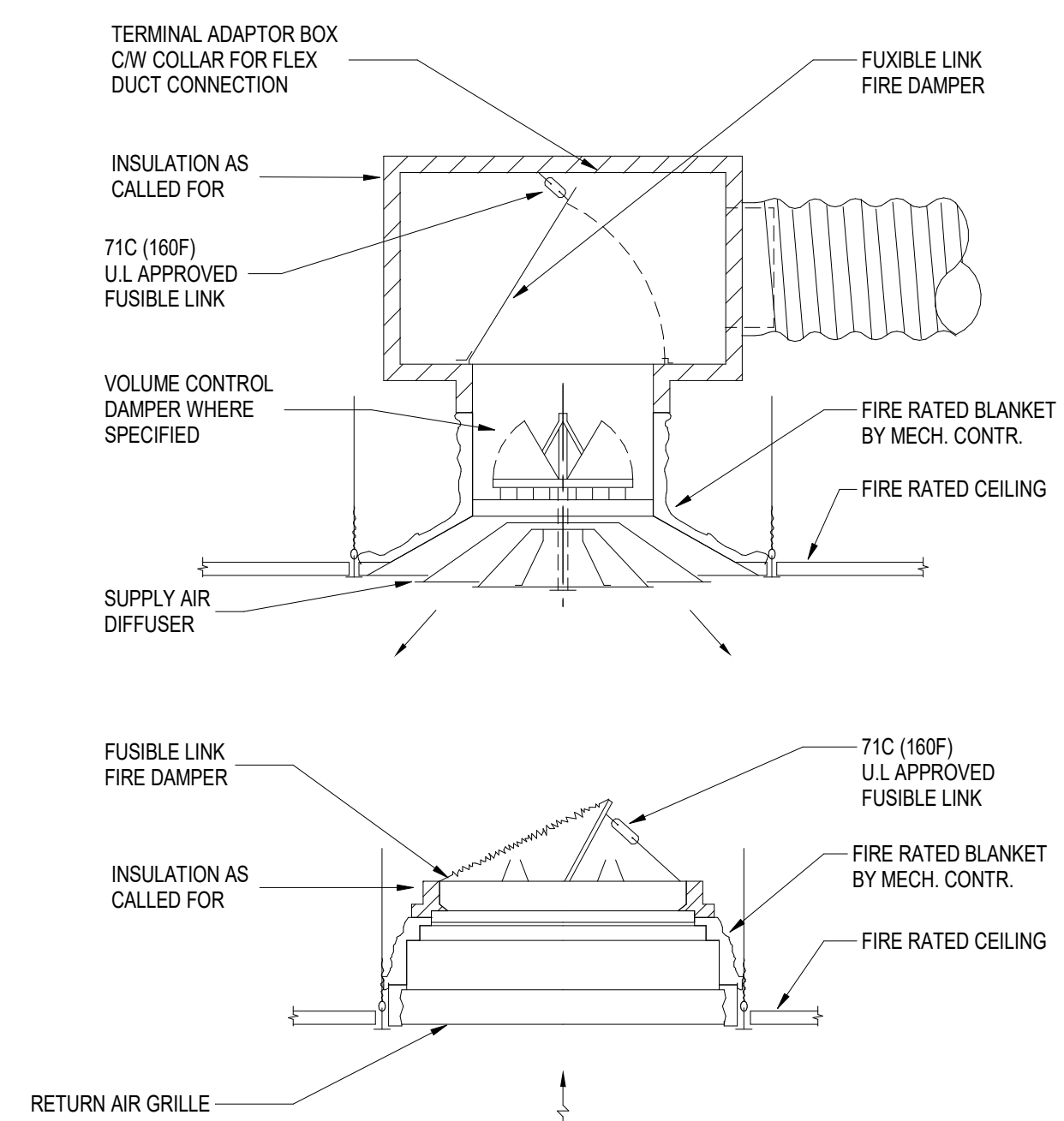
5 ROOF MOUNTED SLOPED PIPE SUPPORT DURABLOCK SLEEPER DETAIL
N.T.S.



6 ROOF MOUNTED SLOPED PIPE SUPPORT DURABLOCK SLEEPER DETAIL
N.T.S.



1 RATED WALL MECHANICAL HYDRONIC PIPE PENTRATION DETAIL
N.T.S.



2 RATED WALL MECHANICAL HYDRONIC PIPE PENTRATION DETAIL
N.T.S.

NOTE: FIRE DAMPERS SHOWN ARE TO BE ACCESSIBLE FOR RESETTING

AIR HANDLING UNIT SCHEDULE - 03										
TAG	AHU-23B	AHU-23C	AHU-23D	AHU-24	AHU-25	AHU-26A	AHU-26B	AHU-26C	AHU-26D	AHU-26E
QUANTITY	1	1	1	1	1	1	1	1	1	1
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
SERVICE	AUTO TECH BAYS	AUTO TECH BAYS	AUTO TECH BAYS	SPECIALTY LAB	AUTO TECH SECURE	WELDING LAB	WELDING LAB	WELDING LAB	WELDING LAB	WELDING LAB
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
SYSTEM TYPE	SINGLE ZONE	SINGLE ZONE	SINGLE ZONE	SINGLE ZONE	SINGLE ZONE	SINGLE ZONE	SINGLE ZONE	SINGLE ZONE	SINGLE ZONE	SINGLE ZONE
MODEL	PRECEDENT - HEAT PUMP WHC120H3.4.W	PRECEDENT - HEAT PUMP WHC120H3.4.W	PRECEDENT - HEAT PUMP WHC120H3.4.W	PRECEDENT - HEAT PUMP WHC092H3.4.W	PRECEDENT - HEAT PUMP WHC120H3.4.W	PRECEDENT - HEAT PUMP WHC120H3.4.W	PRECEDENT - HEAT PUMP WHC120H3.4.W	PRECEDENT - HEAT PUMP WHC120H3.4.W	PRECEDENT - HEAT PUMP WHC120H3.4.W	PRECEDENT - HEAT PUMP WHC120H3.4.W
NOMINAL TONNAGE	10	10	10	10	10	10	10	10	10	10
TYPE (HTG / CLG)	HEAT PUMP (HTG & CLG)	HEAT PUMP (HTG & CLG)	HEAT PUMP (HTG & CLG)	HEAT PUMP (HTG & CLG)	HEAT PUMP (HTG & CLG)	HEAT PUMP (HTG & CLG)	HEAT PUMP (HTG & CLG)	HEAT PUMP (HTG & CLG)	HEAT PUMP (HTG & CLG)	HEAT PUMP (HTG & CLG)
COOLING EER	11.5	11.5	11.5	11.8	11.5	11.5	11.5	11.5	11.5	11.5
HEATING COP	3.63	3.63	3.63	3.5	3.63	3.63	3.63	3.63	3.63	3.63
OPERATING WEIGHT (LBS)	1,500	1,500	1,500	1,200	1,200	1,200	1,200	1,200	1,200	1,200
VENTILATION AIR (CFM)	2,675	2,675	2,675	2,000	2,400	2,760	2,760	2,760	2,760	2,760
SUPPLY FAN										
MAX - SUPPLY AIR (CFM)	3,450	3,450	3,450	2,000	3,500	4,000	4,000	4,000	4,000	4,000
MIN - SUPPLY AIR (CFM)	2,682	2,682	2,682	1,190	2,400	2,760	2,760	2,760	2,760	2,760
EXTERNAL STATIC ("WC)	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
FAN TYPE	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC
MOTOR (HP)	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED
MOTOR (HP)	2.8	2.8	2.8	2.75	2.8	2.8	2.8	2.8	2.8	2.8
EXHAUST FAN										
MAX - SUPPLY AIR (CFM)	3,450	3,450	3,450	2,000	3,500	4,000	4,000	4,000	4,000	4,000
MIN - SUPPLY AIR (CFM)	2,682	2,682	2,682	1,190	2,400	2,760	2,760	2,760	2,760	2,760
EXTERNAL STATIC ("WC)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
FAN TYPE	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC	HIGH STATIC
MOTOR (HP)	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED
MOTOR (HP)	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8
HEATING COIL - ELEC										
CAPACITY (KW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EAT (DEG. C)	-	-	-	-	-	-	-	-	-	-
LAT (DEG. C)	-	-	-	-	-	-	-	-	-	-
COOLING CAPACITY - HEAT PUMP										
SENSIBLE CAPACITY (BTUH)	128,144	128,144	128,144	67,584	106,687	114,819	114,819	114,819	114,819	114,819
TOTAL CAPACITY (BTUH)	133,515	133,515	133,515	73,710	120,488	126,000	126,000	126,000	126,000	126,000
TOTAL CAPACITY (TONS)	11.1	11.1	11.1	6.1	10.0	10.5	10.5	10.5	10.5	10.5
EAT DB (DEG. F)	93.5	93.5	93.5	87.6	90.9	1.0	1.0	1.0	1.0	1.0
EAT WB (DEG. F)	67.0	67.0	67.0	65.0	66.0	91.0	91.0	91.0	91.0	91.0
LAT DB (DEG. F)	59.1	59.1	59.1	57.8	62.7	66.0	66.0	66.0	66.0	66.0
LAT WB (DEG. F)	54.0	54.0	54.0	53.0	55.0	64.4	64.4	64.4	64.4	64.4
HEATING CAPACITY - HEAT PUMP										
HEATING CAPACITY (BTUH)	158,000	158,000	158,000	72,924	115,780	134,125	134,125	134,125	134,125	134,125
EAT (DEG. C)	45.0	45.0	45.0	49.4	45.0	45.0	45.0	45.0	45.0	45.0
LAT (DEG. C)	88.0	88.0	88.0	81.6	75.6	76.0	76.0	76.0	76.0	76.0
FILTERS										
PRE-FILTER	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7
MAIN FILTER	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13
ELECTRICAL CONNECTION										
CONNECTION (V/PH/CYC)	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60
LOAD (MCA)	24.0	24.0	24.0	20.0	24.0	24.0	24.0	24.0	24.0	24.0
NOTES										
1. 100% ECONOMIZER CAPABILITY 2. ALL N/A AND VSD STARTERS ARE TO BE FACTORY INSTALLED AND BE INSTALLED IN NEMA 4 RATED ENCLOSURES. 3. PROVIDE BACNET COMMUNICATION INTERFACE 4. PROVIDE HUMAN INTERFACE - 5" COLOR TOUCH SCREEN 5. PROVIDE 5-YEAR COMPLETE WARRANTY 6. PROVIDE MERV-13 FILTER WITH FILTER REMOVAL TOOLS 7. PROVIDE ANTI-SHORT CYCLE TIMER 8. PROVIDE AUX GAS HEAT 9. PROVIDE HIGH EFFICIENCY UNIT ONLY 10. PROVIDE FACTOR SUPPLIED CO2 SENSOR AND KIT 11. NOT USED 12. PROVIDE FAULT DETECTION AND DIAGNOSTIC TO MEET TITLE 24 REQUIREMENTS 13. PROVIDE HAIL GUARDS 14. PROVIDE HIGH STATIC MOTOR(S) 15. PROVIDE MOTORIZED OUTSIDE AIR DAMPER 16. PROVIDE MOTORIZED RETURN DAMPER AND HOOD 17. PROVIDE MULTISPEED DIRECT DRIVE MOTOR(S) 18. PROVIDE PHASE LOSS PREVENTOR 19. PROVIDE VARIABLE SPEED POWERED EXHAUST 20. PROVIDE ALL STANDRAD FEATURES 21. PROVIDE DISCONNECT SWITCH 22. PROVIDE HINGED DOOR ACCESS 23. PROVIDE MULTIPLE ZONE VAV CONTROL - WHERE...										

DIFFUSERS AND GRILLES SCHEDULE					
EQUIPMENT TAG	DESCRIPTION/TYPE	MANUFACTURER	SERVICE	MODEL NUMBER	REMARKS
SD-1	600x600 SQUARE PLAQUE DIFFUSER	PRICE	SUPPLY AIR	SPD-600x600	1,2,3
SD-2	300x300 SQUARE PLAQUE DIFFUSER	PRICE	SUPPLY AIR	SPD-300x300	1,2,3
SG-1	SUPPLY GRILLE	PRICE	SUPPLY AIR	520D -20mm	1,2,3
RFD-1	ROUND FLOOR DIFFUSER	PRICE	SUPPLY AIR	RFD0-DBS	1,2,3
RG-1	45 DEG SLOTTED RETURN GRILLE	PRICE	RETURN AIR	535D - L	1,2,3
EG-1	45 DEG SLOTTED EXHAUST GRILLE	PRICE	EXHAUST AIR	535D - L	1,2,3
LNS-1	LINEAR SUPPLY DIFFUSER	PRICE	SUPPLY AIR	SDS-100	1,2,4,5
LNS-2	LINEAR SUPPLY DIFFUSER	PRICE	SUPPLY AIR	SDS-50	1,2,4,5
LNR-1	LINEAR RETURN DIFFUSER	PRICE	RETURN AIR	SDR	1,2,4,5
LNR-2	RETURN AIR COVE LINEAR SUPPLY DIFFUSER	PRICE	RETURN AIR	LBPH 25B - 6"	1,2,3
L-1	REFER TO ARCHITECTURAL SPECIFICATION AND DRAWINGS	-	-	-	1,3
NOTES:					
1. PROVIDE DIFFUSERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT WALLS AND CEILING SYSTEMS. REFER TO ARCHITECTURAL DRAWINGS. 2. NC LEVELS BASED ON OCTAVE BANDS 2-7 SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 DB, MEASURED PER ASHRAE 70-91. 3. CUSTOM COLOUR OF PRODUCT TO BE SELECTED BY THE ARCHITECT DURING THE SHOP DRAWINGS SUBMITTAL PROCESS. 4. REFER TO EQUIPMENT TAG FOR LINEAR DIFFUSER # OF SLOTS AND THICKNESS 5. CONTRACTOR TO REFER TO MECHANICAL AND ARCHITECTURAL DETAILS FOR SUPPLY AND INSTALLATION OF LINEAR GRILLE.					

EXHAUST FAN SCHEDULE														
EQUIPMENT TAG	QTY	SERVICE	LOCATION	TYPE	MANUFACTURER	MODEL	AIR FLOW (CFM)	E. S. P. ("WC)	FAN (RPM)	MOTOR (HP)	ELEC CONN (V/PH/CYC)	DRIVE TYPE	SOUND LEVEL (SONES)	NOTES
EF-01	1	WASHROOM (W/R) EX FAN	ROOF	UPBLAST CENT ROOF EX FAN	GREENHECK	CUE-080-G	150	0.4	1,300	1/30	115/1/60	DIRECT	6.00	
EF-02	1	W/R AND CUSTODIAN EX FAN	ROOF	CENTRIFUGAL ROOF EX FAN	GREENHECK	GB-131	1,000	0.7	1,177	0.25	115/1/60	BELT	8.70	
EF-03	1	LOCKER RM AND W/R EX FAN	ROOF	CENTRIFUGAL ROOF EX FAN	GREENHECK	GB-091	800	0.7	1,552	0.25	115/1/60	BELT	10.30	
EF-04	1	W/R EX FAN	ROOF	CENTRIFUGAL ROOF EX FAN	GREENHECK	G-080-G	150	0.4	1,300	1/30	115/1/60	DIRECT	6.00	
EF-05	1	SMOG EMS EX FAN	ROOF	CENTRIFUGAL ROOF EX FAN	GREENHECK	GB-121	1,000	0.4	1,083	0.25	115/1/60	BELT	7.40	
EF-06	1	CUSTODIAN EX FAN	ROOF	CENTRIFUGAL ROOF EX FAN	GREENHECK	G-097-VG	100	0.4	1,025	0.25	115/1/60	DIRECT	3.80	
NOTES:														
1. PROVIDE MOTORIZED DAMPER HARDWIRED TO FAN 2. ACOUSTIC LINED CABINET. 3. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS 4. PROVIDE VARIABLE SPEED DRIVE (VFD) CONTROL. 5. VFD'S TO BE PROVIDED IN NEMA 4 ENCLOSURES MOUNTED ON ROOF. 6. BELT DRIVE MOUNTED OUTSIDE OF AIR STREAM. 7. PROVIDE SEISMIC RATED ROOF CURB 8. PROVIDE SPARK RESISTANT RATED FAN 9. PROVIDE EXPLOSION PROOF RATED FAN														

SHOP EXHAUST FAN SCHEDULE														
EQUIPMENT TAG	QTY	SERVICE	LOCATION	TYPE	MANUFACTURER	MODEL	AIR FLOW (CFM)	E. S. P. ("WC)	FAN (RPM)	MOTOR (HP)	ELEC CONN (V/PH/CYC)	DRIVE TYPE	SOUND LEVEL (SONES)	NOTES
EF-AM-01	1	M5 - LATHE UNITS	ADVANCED MANF LAB ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK						460/3/60			ALL
EF-W-01	1	WELDING STATION EXHAUST	WELDING LAB ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK						460/3/60			ALL
EF-W-02	1	WELDING STATION EXHAUST	WELDING LAB ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK						460/3/60			ALL
EF-W-03	1	EXHAUST HOOD EX FAN	WELDING LAB ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK						460/3/60			ALL
EF-W-04	1	EXHAUST HOOD EX FAN	WELDING LAB ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK						460/3/60			ALL
EF-W-05	1	EXHAUST HOOD EX FAN	WELDING LAB ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK						460/3/60			ALL
EF-W-06	1	EXHAUST HOOD EX FAN	WELDING LAB ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK						460/3/60			ALL
EF-W-07	1	WELDING ROOM EX FAN	WELDING LAB ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK						460/3/60			ALL
NOTES:														
1. PROVIDE VARIABLE SPEED DRIVE (VFD) CONTROL. 2. VFD'S TO BE PROVIDED IN NEMA 4 ENCLOSURES MOUNTED ON ROOF. 3. BELT DRIVE MOUNTED OUTSIDE OF AIR STREAM. 3. PROVIDE SEISMIC RATED ROOF CURB 4. PROVIDE SPARK RESISTANT RATED FAN 5. PROVIDE EXPLOSION PROOF RATED FAN														

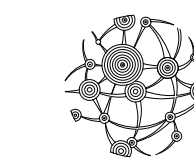
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LIONAKIS

1919 Nineteenth Street
Sacramento CA 95811
P 916.558.1900 F 916.558.1919
www.lionakis.com

CONSULTANT



INTEGRAL

427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
www.integralgroup.com

SEAL

PROJECT
**PUBLIC SAFETY COMPLEX /
ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
**CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT**
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: 7000007
Building No: 9007
OSHPD No: 7P-2016-XXXXXX?

ISSUED

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT

LIONAKIS PROJECT NO: 019051
CLIENT PROJECT NO: -
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TITLE
**MECHANICAL
EQUIPMENT SCHEDULE**

SHEET

M-602

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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BM1901020204 - Lionakis.Las Positas.PSC-MITIG.LasPositas.PSC-AUT_MEP_16.rvt

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0 1/4" = 1' SCALE ACCORDINGLY

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BM1901020004 - Lionakis Las Positas PSC-AMTIG_LasPositasPSC-AMT_MEP_16.rvt

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SINGLE DUCT VAV BOX SCHEDULE														
UNIT TAG	QTY (#)	SERVICE ROOM NAME	SERVICE ROOM NO.	MANF.	MODEL NUMBER	MAX AIRFLOW (CFM) (EACH)	MIN AIRFLOW (CFM) (EACH)	ELEC CONN (V/PH/CYC)	ELECTRIC RE-HEAT COIL DESIGN HEATING LOAD (BTUH (EA) (EACH))	KW (EA) (EACH)	ACTUAL SIZE (EA) (EACH)	COIL AIR FLOW (CFM-EA)	EAT (DEG F)	LAT (DEG F)
AHU-1														
VAV-1.1	1	MCR OFFICE	-	PRICE	SDV-5	310	155	208/3/60	8,267	2.42	5.0	155	55	104
VAV-1.2	1	OFFICES	-	PRICE	SDV-4	450	225	208/3/60	14,853	4.35	6.0	225	55	115
VAV-1.3	1	DEAN OFFICE	-	PRICE	SDV-6	450	225	208/3/60	11,113	3.26	6.0	225	55	101
VAV-1.4	1	RECPT ADMIN	-	PRICE	SDV-5	300	150	208/3/60	8,142	2.38	5.0	150	55	105
VAV-1.5	1	ENTRY VEST	-	PRICE	SDV-5	350	175	208/3/60	7,666	2.25	5.0	175	55	96
VAV-1.6	1	COORDINATOR	-	PRICE	SDV-4	400	200	208/3/60	7,630	2.23	6.0	200	55	90
VAV-1.7	1	ADJUNCT OFFICE	-	PRICE	SDV-5	360	180	208/3/60	12,012	3.52	5.0	180	55	115
AHU-2														
VAV-2.1	1	CONF ROOM	-	PRICE	SDV-4	750	375	208/3/60	19,304	5.65	11.0	375	55	103
VAV-2.2	1	RECORDS ROOM	-	PRICE	SDV-5	300	150	208/3/60	9,910	2.90	5.0	150	55	115
AHU-8														
VAV-8.1	1	SIM ROOM	-	PRICE	SDV-4	750	375	208/3/60	11,556	3.38	11.0	375	55	84
VAV-8.2	1	SIM ROOM	-	PRICE	SDV-4	750	375	208/3/60	11,556	3.38	11.0	375	55	84
VAV-8.3	1	SIM ROOM	-	PRICE	SDV-8	750	375	208/3/60	11,556	3.38	11.0	375	55	84
VAV-8.4	1	EMS STORAGE	-	PRICE	SDV-8	750	375	208/3/60	11,556	3.38	11.0	375	55	84
AHU-14														
VAV-14.1	1	LOCKER ROOM	-	PRICE	SDV-5	300	220	208/3/60	9,849	2.88	5.0	220	55	96.5
VAV-14.2	1	LOCKER ROOM	-	PRICE	SDV-7	600	300	208/3/60	14,084	4.13	9.0	300	55	98.5
AHU-19														
VAV-19.1	1	OFFICES	-	PRICE	SDV-7	600	300	208/3/60	14,084	4.13	9.0	300	55	99
VAV-19.2	1	OFFICES	-	PRICE	SDV-7	600	300	208/3/60	14,084	4.13	9.0	300	55	99
VAV-19.3	1	ENTRY	-	PRICE	SDV-8	800	400	208/3/60	21,120	6.19	11.0	400	55	104
AHU-21														
VAV-21.1	1	SMOG OFFICE	-	PRICE	SDV-5	350	175	208/3/60	8,837	2.59	5.0	175	55	102
VAV-21.2	1	SMOG WAITING	-	PRICE	SDV-6	400	200	208/3/60	10,399	3.05	6.0	200	55	103

VEHICLE EXHAUST FAN SCHEDULE

EQUIPMENT TAG	QTY	SERVICE	LOCATION	TYPE	MANUFACTURER	MODEL	AIR FLOW (CFM)	E. S. P. (W/C)	FAN (RPM)	MOTOR (HP)	ELEC CONN (V/PH/CYC)	DRIVE TYPE	SOUND LEVEL (SONES)	NOTES
EF-V-1	1	HE-1 THRU HE-3	AUTOBAY - ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK	TCBRU-2-10	1,065	1.7	2,819	1.0	460/3/60	BELT	17.30	ALL
EF-V-2	1	HE-4 THRU HE-6	AUTOBAY - ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK	TCBRU-2-10	1,065	1.7	2,819	1.0	460/3/60	BELT	17.30	ALL
EF-V-3	1	HE-7 THRU HE-9	AUTOBAY - ROOF	TUBULAR CENTRIFUGAL UPBLAST EX...	GREENHECK	TCBRU-2-10	1,065	1.7	2,819	1.0	460/3/60	BELT	17.30	ALL

- NOTES:**
1. PROVIDE VARIABLE SPEED DRIVE (VFD) CONTROL.
 2. VFD'S TO BE PROVIDED IN NEMA 4 ENCLOSURES MOUNTED ON ROOF.
 3. BELT DRIVE MOUNTED OUTSIDE OF AIR STREAM.
 3. PROVIDE SEISMIC RATED ROOF CURB
 4. PROVIDE SPARK RESISTANT RATED FAN
 5. PROVIDE EXPLOSION PROOF RATED FAN

VEHICLE EXHAUST REEL SCHEDULE

EQUIPMENT TAG	QTY	SERVICE	LOCATION	TYPE	MANUFACTURER	MODEL TYPE	MODEL (NO.)	AIR FLOW (CFM)	P. DROP (W/C)	ELEC (V/PH/CYC)	ELEC LOAD (KVA)	NOTES
HE-1	1	VEHICLE REEL EXHAUST	AUTO TECH BAYS	MOTORIZED HOSE REEL EXHAUST	NEDERMAN	EX HS REEL - 865	20803885	355	1.00	120/1/60	325	ALL
HE-2	1	VEHICLE REEL EXHAUST	AUTO TECH BAYS	MOTORIZED HOSE REEL EXHAUST	NEDERMAN	EX HS REEL - 865	20803885	355	1.00	120/1/60	325	ALL
HE-3	1	VEHICLE REEL EXHAUST	AUTO TECH BAYS	MOTORIZED HOSE REEL EXHAUST	NEDERMAN	EX HS REEL - 865	20803885	355	1.00	120/1/60	325	ALL
HE-4	1	VEHICLE REEL EXHAUST	AUTO TECH BAYS	MOTORIZED HOSE REEL EXHAUST	NEDERMAN	EX HS REEL - 865	20803885	355	1.00	120/1/60	325	ALL
HE-5	1	VEHICLE REEL EXHAUST	AUTO TECH BAYS	MOTORIZED HOSE REEL EXHAUST	NEDERMAN	EX HS REEL - 865	20803885	355	1.00	120/1/60	325	ALL
HE-6	1	VEHICLE REEL EXHAUST	AUTO TECH BAYS	MOTORIZED HOSE REEL EXHAUST	NEDERMAN	EX HS REEL - 865	20803885	355	1.00	120/1/60	325	ALL
HE-7	1	VEHICLE REEL EXHAUST	AUTO TECH BAYS	MOTORIZED HOSE REEL EXHAUST	NEDERMAN	EX HS REEL - 865	20803885	355	1.00	120/1/60	325	ALL
HE-8	1	VEHICLE REEL EXHAUST	AUTO TECH BAYS	MOTORIZED HOSE REEL EXHAUST	NEDERMAN	EX HS REEL - 865	20803885	355	1.00	120/1/60	325	ALL
HE-9	1	VEHICLE REEL EXHAUST	AUTO TECH BAYS	MOTORIZED HOSE REEL EXHAUST	NEDERMAN	EX HS REEL - 865	20803885	355	1.00	120/1/60	325	ALL

- NOTES:**
1. PROVIDE A NFC-3 HOSE
 2. COMPLETE WITH HOSE SECTION
 3. WIDE BODY TYPE
 4. 150 DIA HOSE
 5. 7.5M HOSE LENGTH
 6. ELECTRICAL MOTOR DRIVEN
 7. PROVIDE PENDANT CONTROL WITH CABLE BRACKET
 8. PROVIDE WITH TRANSMITTER WITH WALL BRACKET
 9. PROVIDE WITH CEILING MOUNTING BRACKET
 10. 8" EXHAUST CONNECTION

COMPUTER ROOM AC UNIT SCHEDULE

EQUIPMENT TAG	QTY	SERVICE	LOCATION	TYPE	MANUFACTURER	AC UNIT MODEL NO.	CONDENSING UNIT MODEL NO.	EVAPORATOR UNIT MODEL NO.	NOMINAL COOLING CAPACITY (TONS)	I/D AIR FLOW (CFM)	I/D ESP (W/C)	I/D FAN (HP)	CLG CAP. TOTAL (BTUH)	CLG CAP. SENS (BTUH)	RM SETPOINT (DEG F / RH %)	ELEC REHEAT CAP (KW)	HUMIDIFICATION CAP. (LBS/HR)	ELEC (V/PH/CYC)	POWER (FLA, OPD)	NOTES
CRAC-1A & 1B	2	DEDICATED COOLING SYSTEM	IDF ROOM	COMPUTER ROOM AC UNIT	LIEBERT	LIEBERT MINI-MATE - MMD96E	PFH096A-LN	MMD96E	8.0	5,000	0.4	3.0	90,400	77,900	72 / 50%	11.5	10.0	460/3/60	27.2, 35	ALL
CRAC-2A & 2B	2	DEDICATED COOLING SYSTEM	MDF ROOM	COMPUTER ROOM AC UNIT	LIEBERT	LIEBERT MINI-MATE - MMD96E	PFH096A-LN	MMD96E	8.0	5,000	0.4	3.0	90,400	77,900	72 / 50%	11.5	10.0	460/3/60	27.2, 35	ALL
CRAC-3A & 3B	2	DEDICATED COOLING SYSTEM	ELECTRICAL ROOM	COMPUTER ROOM AC UNIT	LIEBERT	LIEBERT MINI-MATE - MMD96E	PFH096A-LN	MMD96E	8.0	5,000	0.4	3.0	90,400	77,900	72 / 50%	11.5	10.0	460/3/60	27.2, 35	ALL

- NOTES:**
1. UNIT TO BE SINGLE POINT POWER CONNECTION
 2. PROVIDE ELECTRIC REHEAT COIL.
 3. PROVIDE HUMIDIFIER OPTION.
 4. PROVIDE SEPARATE WATER GLYCOL CONDENSING UNIT.
 5. PROVIDE LCD PROGRAMMABLE THERMOSTAT CONNECT TO BOTH UNITS
 6. CONNECT ALARMS TO DDC SYSTEM.
 7. PROVIDE CONDENSATE PAN AND DRAIN UNDER UNIT.
 8. PROVIDE SMOKE DETECTOR AND ALARM OPTION.
 9. PROVIDE MERV 8 EQUIVALENT FILTERS ON UNIT.
 10. PROVIDE PACKAGED CONDENSATE PUMP.
 11. PROVIDE INTERNAL TRAPPING FOR DRAIN.
 12. BASED ON 72 DEG F DB / 60 DEG F WB - DESIGN CONDITION
 13. PROVIDE FREE COOLING OPTION / SECTION

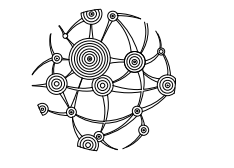
FILE NO. ?XX-XXXX?

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
?XX-XXX?
AC _____ FLS _____ SS _____
DATE _____

LIONAKIS

1919 Nineteenth Street
Sacramento CA 95811
P 916.558.1900 F 916.558.1919
www.lionakis.com

CONSULTANT



INTEGRAL

427 13th Street
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7600 DUBLIN BLVD
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Facility No: ?00000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

ISSUED		
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
LIONAKIS PROJECT NO: 019051
CLIENT PROJECT NO: -
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TITLE
**MECHANICAL
EQUIPMENT SCHEDULE**

SHEET
M-603

0 1/4" = 1'

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LAS POSITAS PUBLIC SAFETY BUILDING															DATE: 3-Jan-19				
HVAC MOTORLIST - 50% DESIGN DEVELOPMENT																			
UNIT NUMBER	QTY	UNIT DESCRIPTION	UNIT LOCATION / SERVICE	EMG PWR REQUIRED (YES/NO)	ELEC LOAD (AS NOTED) (EACH)	VOLT	PH	EQUI...			STAR...			CONT...			NOTES		
								S	I	C	S	I	C	TYPE	S	I	C	TYPE	
AIR HANDLING UNITS																			
AHU-1	1	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	20.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-1	1	SEPARATE LIGHTING CONNECTION	AHU-1	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-2	1	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	11.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-2	1	SEPARATE LIGHTING CONNECTION	AHU-2	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-3 & 4	2	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	20.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-3 & 4	2	SEPARATE LIGHTING CONNECTION	AHU-3 & 4	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-5	1	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	11.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-5	1	SEPARATE LIGHTING CONNECTION	AHU-5	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-6 & 7	2	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	20.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-6 & 7	2	SEPARATE LIGHTING CONNECTION	AHU-6 & 7	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-8 & 9	2	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	15.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-8 & 9	2	SEPARATE LIGHTING CONNECTION	AHU-8 & 9	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-10 -> 12	3	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	20.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-10 -> 12	3	SEPARATE LIGHTING CONNECTION	AHU-10, 11, 12	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-13	1	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	13.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-13	1	SEPARATE LIGHTING CONNECTION	AHU-13	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-14	1	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	15.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-14	1	SEPARATE LIGHTING CONNECTION	AHU-14	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-15 & 16	2	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	20.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-15 & 16	2	SEPARATE LIGHTING CONNECTION	AHU-15 & 16	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-17	1	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	15.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-17	1	SEPARATE LIGHTING CONNECTION	AHU-17	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-18	1	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	22.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-18	1	SEPARATE LIGHTING CONNECTION	AHU-18	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-19	1	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	20.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-19	1	SEPARATE LIGHTING CONNECTION	AHU-19	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-20A & 20B	2	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	24.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-20A & 20B	2	SEPARATE LIGHTING CONNECTION	AHU-20A & 20B	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-21 & 22	2	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	15.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-21 & 22	2	SEPARATE LIGHTING CONNECTION	AHU-21 7 22	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-23A -> 23D	4	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	24.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-23A -> 23D	4	SEPARATE LIGHTING CONNECTION	AHU-23A -> 23D	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-24	1	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	20.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-24	1	SEPARATE LIGHTING CONNECTION	AHU-24	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-25	1	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	24.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-25	1	SEPARATE LIGHTING CONNECTION	AHU-25	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
AHU-26A -> 26E	5	ROOF TOP PACKAGE HEAT PUMP AHU	ROOF	NO	24.0 MCA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,2,4
LT-26A -> 26E	5	SEPARATE LIGHTING CONNECTION	AHU-26A -> 26E	NO	15.0 AMPS	115	1	MECH	MECH	ELEC	-	-	-	-	MECH	MECH	MECH	SW	
DEDICATED COOLING SYSTEMS																			
CRAC-1A & 1B	2	IDF ROOM - COMPUTER ROOM AC UNIT	I/D - IDF ROOM / O/D - ROOF	NO	27.2 FLA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,3
CRAC-2A & 2B	2	IDF ROOM - COMPUTER ROOM AC UNIT	I/D - MDF ROOM / O/D - ROOF	NO	27.2 FLA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,3
CRAC-3A & 3B	2	ELEC ROOM - COMPUTER ROOM AC UNIT	I/D - ELEC ROOM / O/D - ROOF	NO	27.2 FLA	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	DDC	1,3
EXHAUST FANS																			
EF-01	1	WASHROOM (W/R) EX FAN	ROOF	NO	1/30 HP	115	1	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-02	1	W/R AND CUSTODIAN EX FAN	ROOF	NO	0.25 HP	115	1	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-03	1	LOCKER RM AND W/R EX FAN	ROOF	NO	0.25 HP	115	1	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-04	1	W/R EX FAN	ROOF	NO	1/30 HP	115	1	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-05	1	SMOG EMG EX FAN	ROOF	NO	0.25 HP	115	1	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-06	1	CUSTODIAN EX FAN	ROOF	NO	0.25 HP	115	1	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
SHOP EXHAUST FANS																			
EF-AM-01	1	M5 - LATHE UNITS	ROOF	NO	TBD	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-W-01	1	WELDING STATION EXHAUST	ROOF	NO	TBD	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-W-02	1	WELDING STATION EXHAUST	ROOF	NO	TBD	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-W-03	1	EXHAUST HOOD FAN	ROOF	NO	TBD	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-W-04	1	EXHAUST HOOD FAN	ROOF	NO	TBD	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-W-05	1	EXHAUST HOOD FAN	ROOF	NO	TBD	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-W-06	1	EXHAUST HOOD FAN	ROOF	NO	TBD	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-W-07	1	WELDING ROOM EXHAUST FAN	ROOF	NO	TBD	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
VEHICLE EXHAUST FANS																			
EF-V-1	1	VEHICLE NOZZLES EXHAUST FAN	ROOF	NO	1.0 HP	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-V-2	1	VEHICLE NOZZLES EXHAUST FAN	ROOF	NO	1.0 HP	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
EF-V-3	1	VEHICLE NOZZLES EXHAUST FAN	ROOF	NO	1.0 HP	460	3	MECH	MECH	ELEC	MECH	MECH	ELEC	VFD	MECH	MECH	MECH	DDC	1,3,4
DUST COLLECTORS																			
DCS-1	1	DUST COLLECTOR SYSTEM	WELDING YARD	NO	TBD	460	3	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	INT	1
VEHICLE EXHAUST REELS																			
HE-1 -> 9	9	VEHICLE REEL EXHAUST NOZZLES	AUTO TECH BAYS	NO	325 KVA	115	1	MECH	MECH	ELEC	MECH	MECH	MECH	INT	MECH	MECH	MECH	INT	1
VARIABLE VOLUME BOXES (VAV)																			
VAV-1.1 -> 1.7	7	AHU-1 VAV BOXES	REFER TO DWGS	NO	-	24v	-	MECH	MECH	MECH	-	-	-	-	MECH	MECH	MECH	DDC	6
VAV-2.1 -> 2.2	2	AHU-2 VAV BOXES	REFER TO DWGS	NO	-	24v	-	MECH	MECH	MECH	-	-	-	-	MECH	MECH	MECH	DDC	6
VAV-8.1 -> 8.4	4	AHU-8 VAV BOXES	REFER TO DWGS	NO	-	24v	-	MECH	MECH	MECH	-	-	-	-	MECH	MECH	MECH	DDC	6
VAV-14.1 -> 14.2	2	AHU-14 VAV BOXES	REFER TO DWGS	NO	-	24v	-	MECH	MECH	MECH	-	-	-	-	MECH	MECH	MECH	DDC	6
VAV-19.1 -> 19.3	3	AHU-19 VAV BOXES	REFER TO DWGS	NO	-	24v	-	MECH	MECH	MECH	-	-	-	-	MECH	MECH	MECH	DDC	6
VAV-21.1 -> 21.2	2	AHU-21 VAV BOXES	REFER TO DWGS																

0 1/4" 1/2" 1"

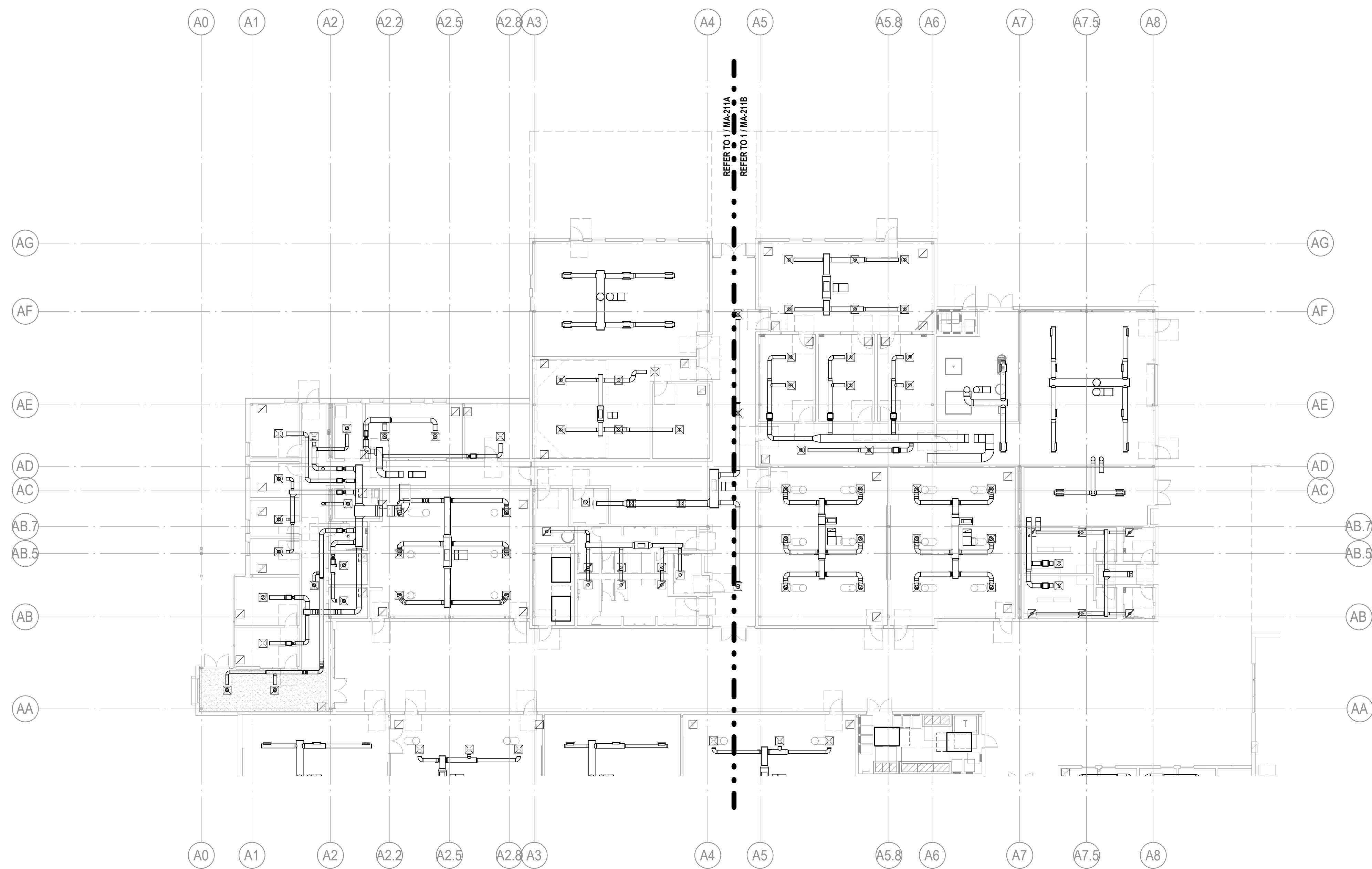
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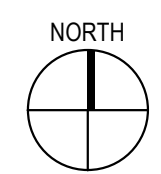
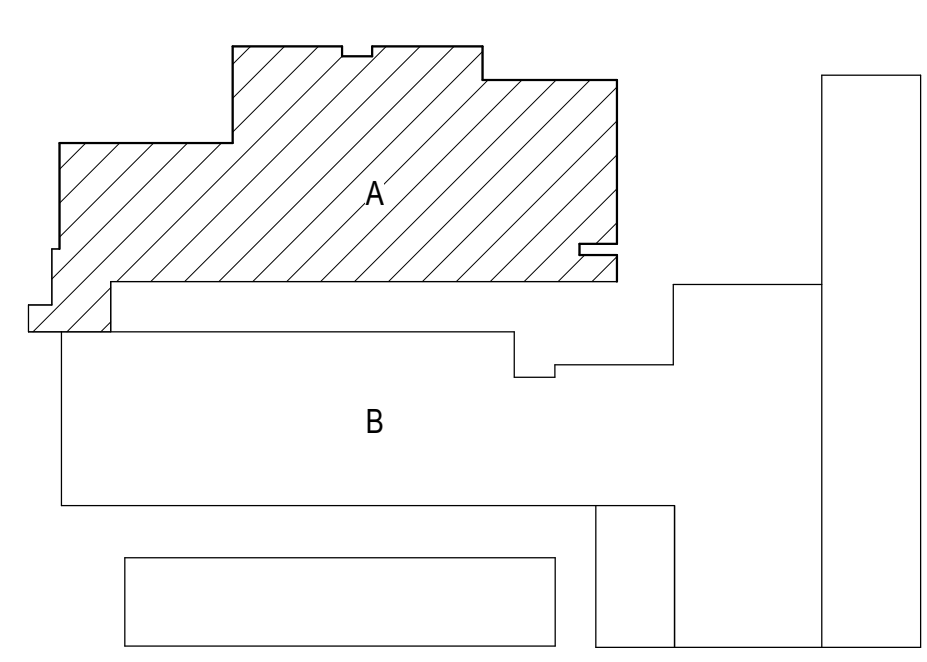


1 BUILDING A - MECHANICAL OVERALL FLOOR PLAN
1/16" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN



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 E-Mail: info@integralgroup.com
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PROJECT
**PUBLIC SAFETY COMPLEX /
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 TRANSPORTATION PROJECT**
 LAS POSITAS COLLEGE
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551
 CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: ?000000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT	
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TITLE
**BUILDING A -
 MECHANICAL OVERALL
 FLOOR PLAN**

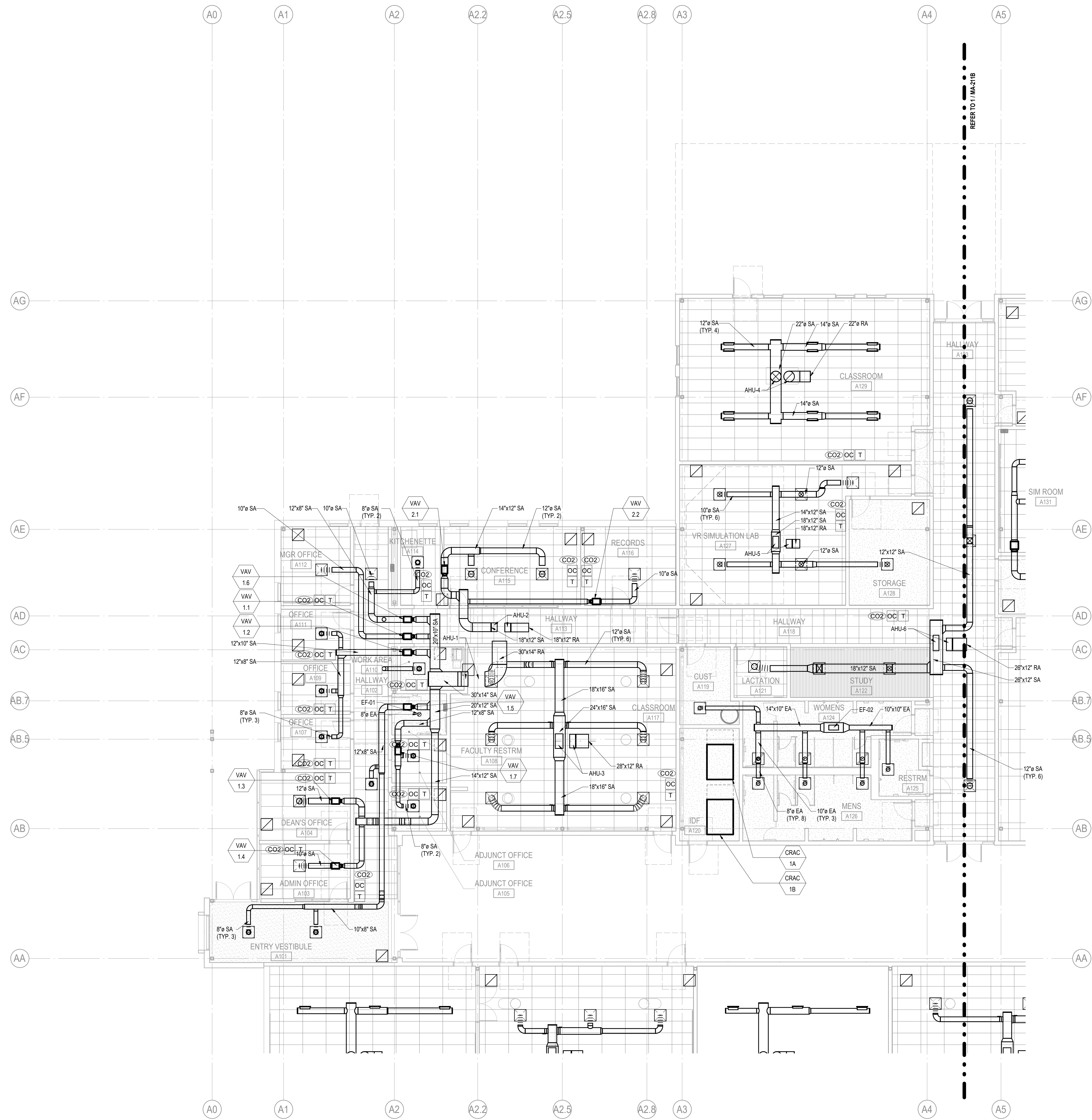
SHEET
MA-211

0 1/4" = 1'

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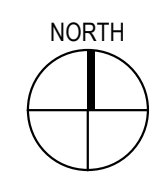
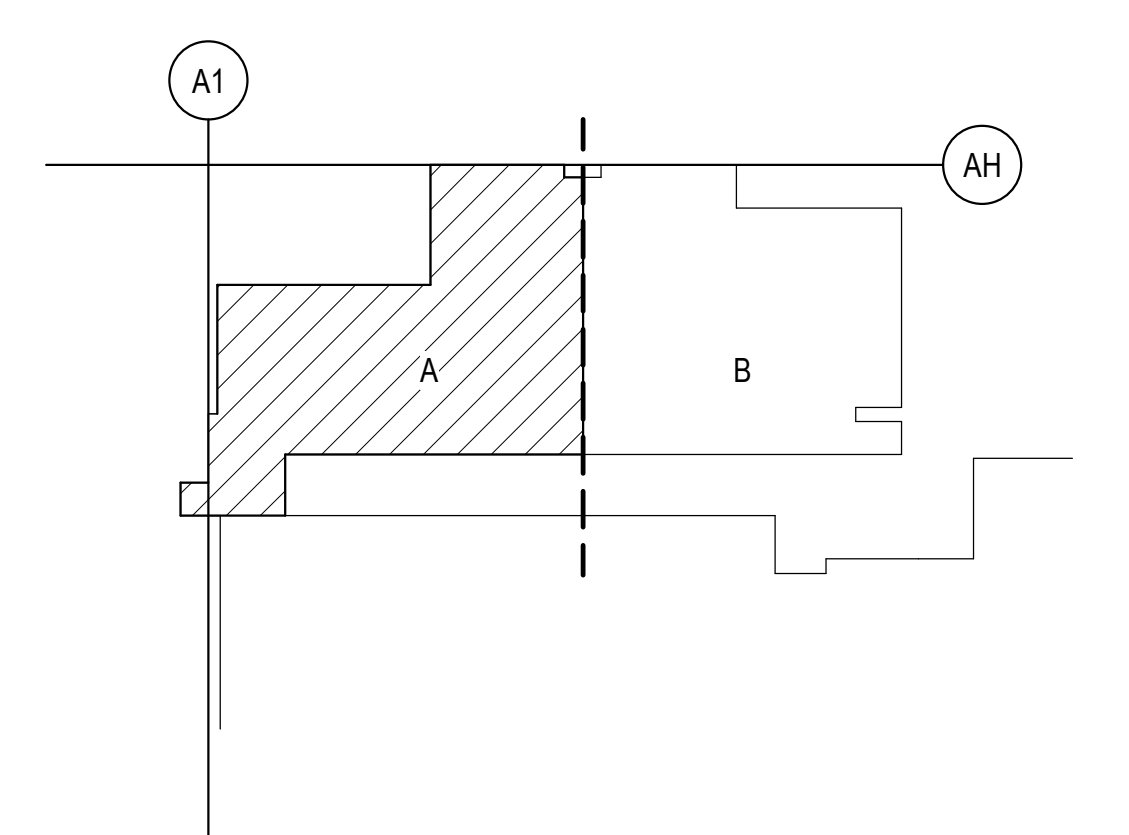


1 BUILDING A - MECHANICAL PARTIAL FLOOR PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN



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MANAGEMENT

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TITLE
**BUILDING A -
 MECHANICAL PARTIAL
 FLOOR PLAN - AREA A**

SHEET
MA-211A

0 1/4" = 1'

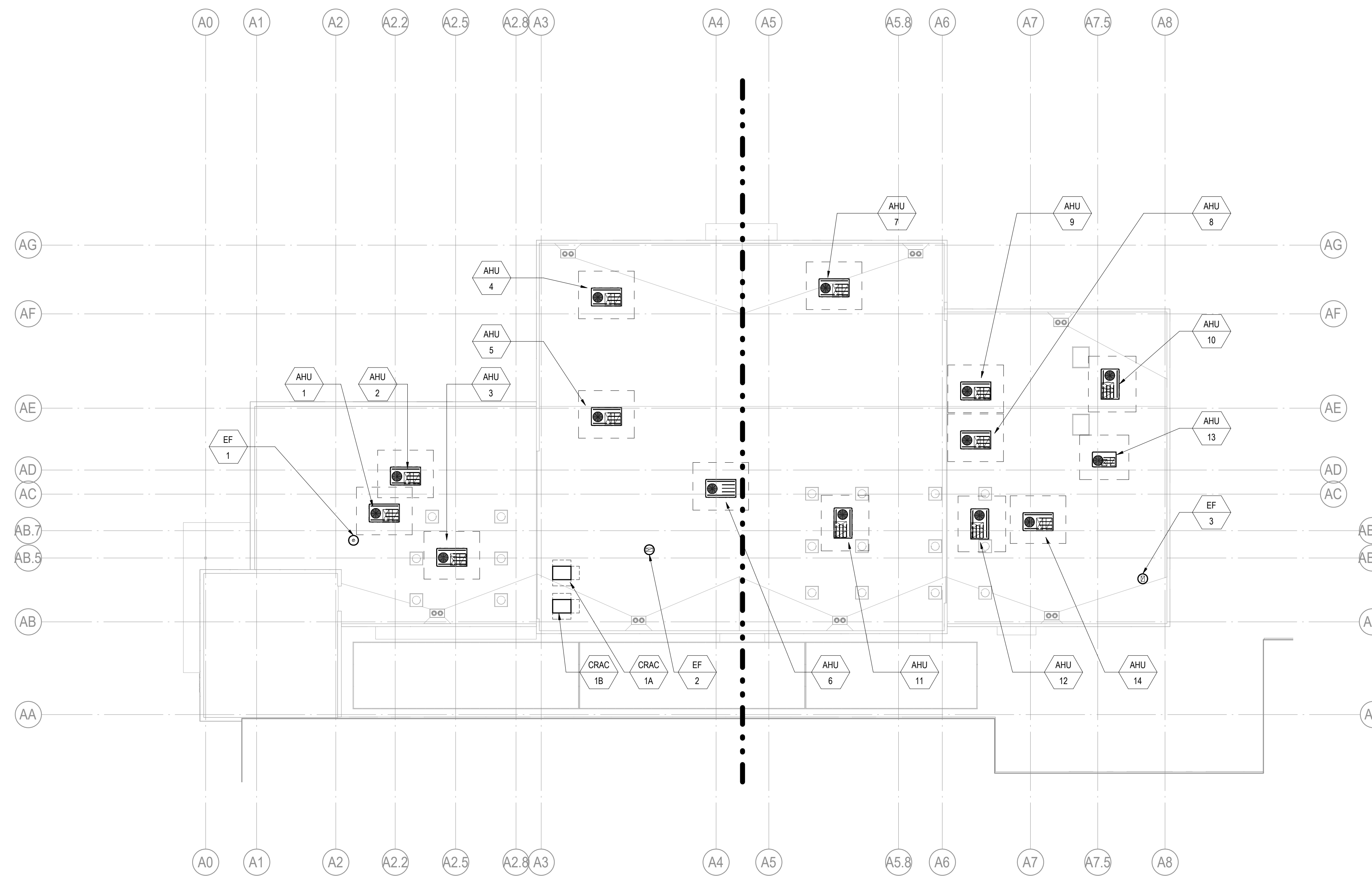
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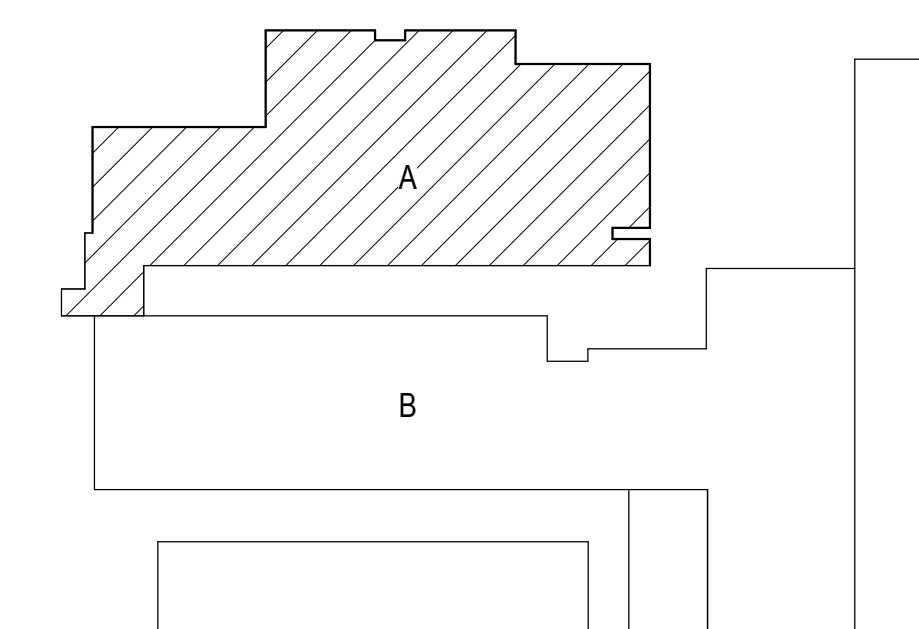


1 BUILDING A - MECHANICAL OVERALL ROOF PLAN
1/16" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN

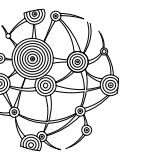


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Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
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MANAGEMENT
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TITLE
**BUILDING A -
MECHANICAL OVERALL
ROOF PLAN**

SHEET
MA-221

0 1/4" = 1'-0"

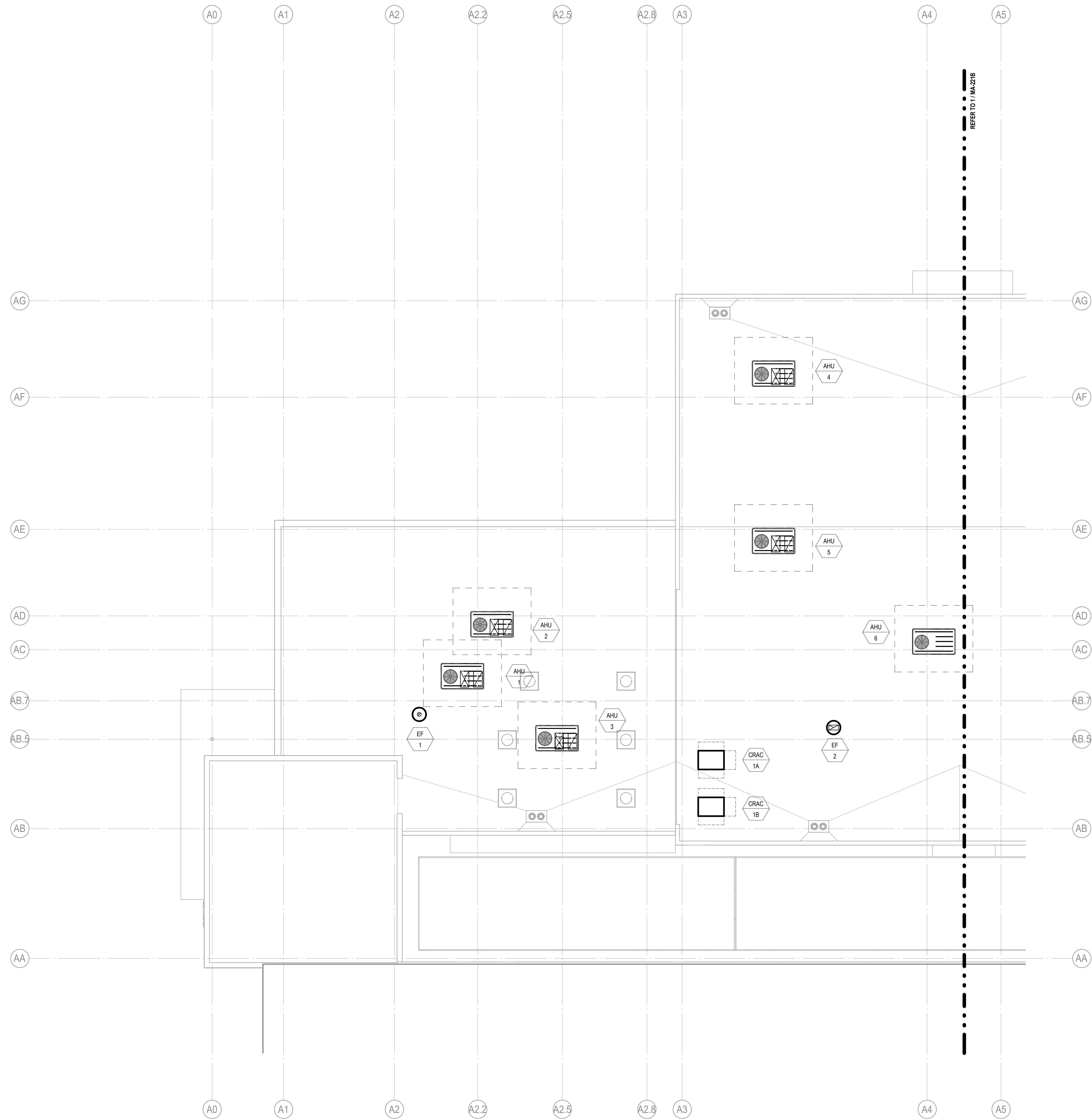
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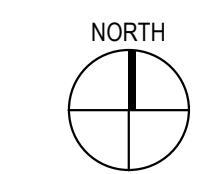
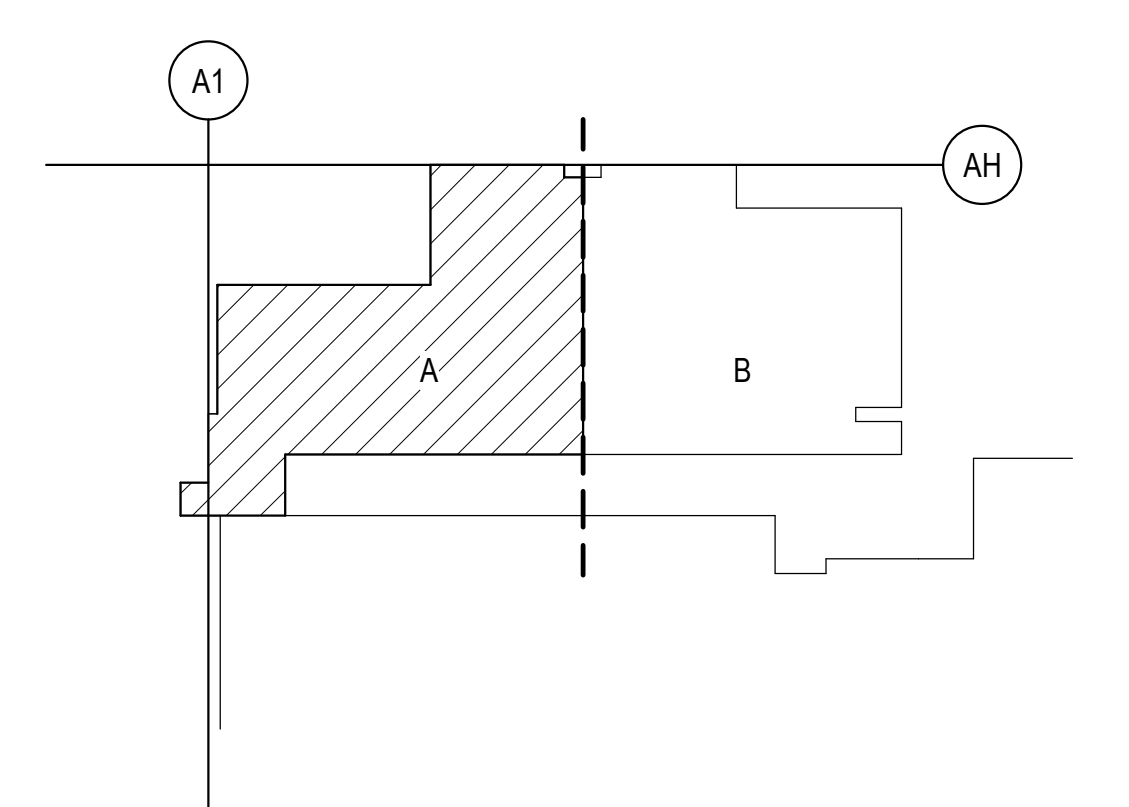
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GENERAL NOTES

SHEET NOTES

KEY PLAN



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MARK	DATE	DESCRIPTION
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TITLE
**BUILDING A -
 MECHANICAL PARTIAL
 ROOF PLAN - AREA A**

SHEET
MA-221A

0 1/4" = 1'-0"

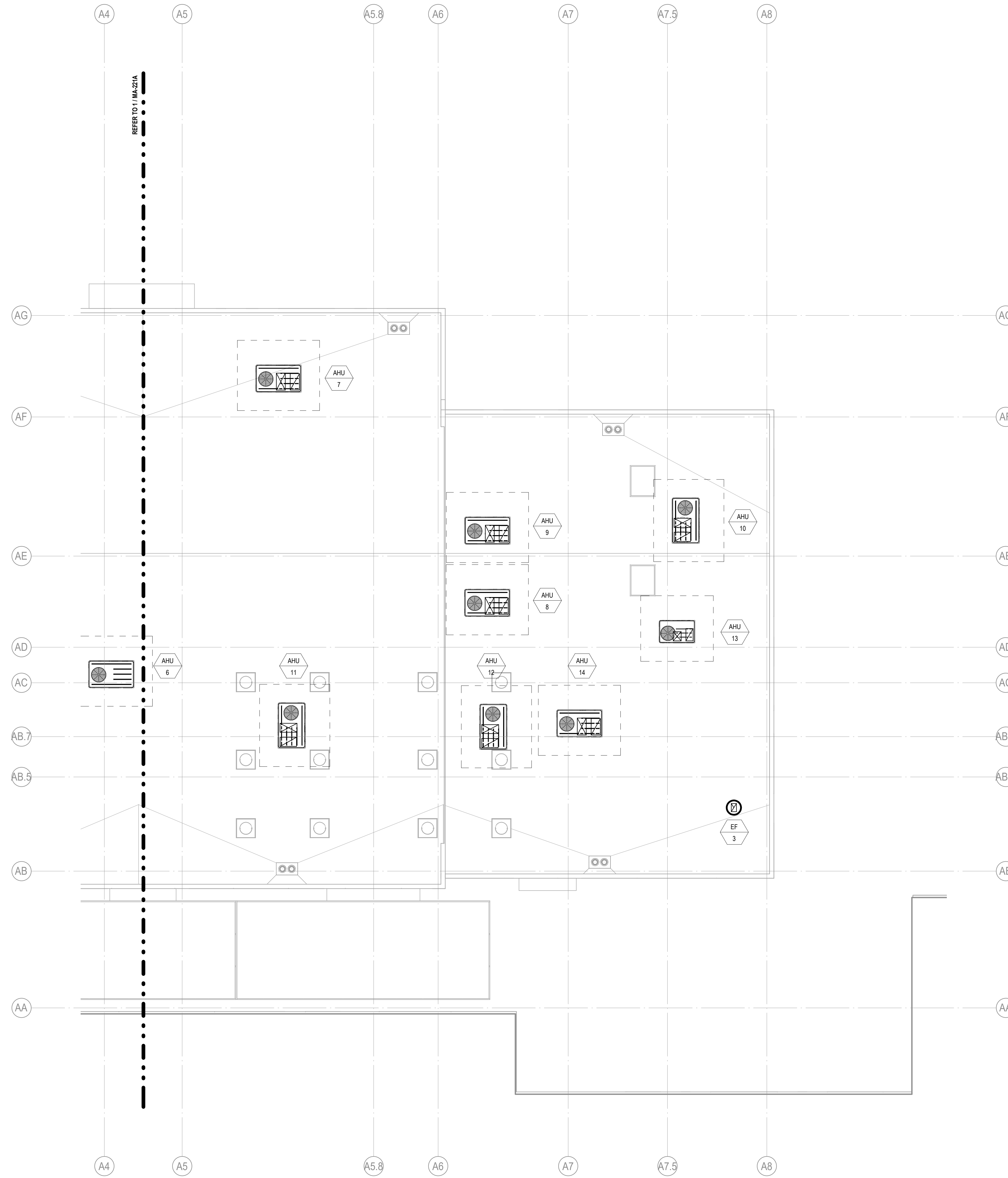
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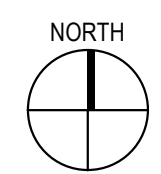
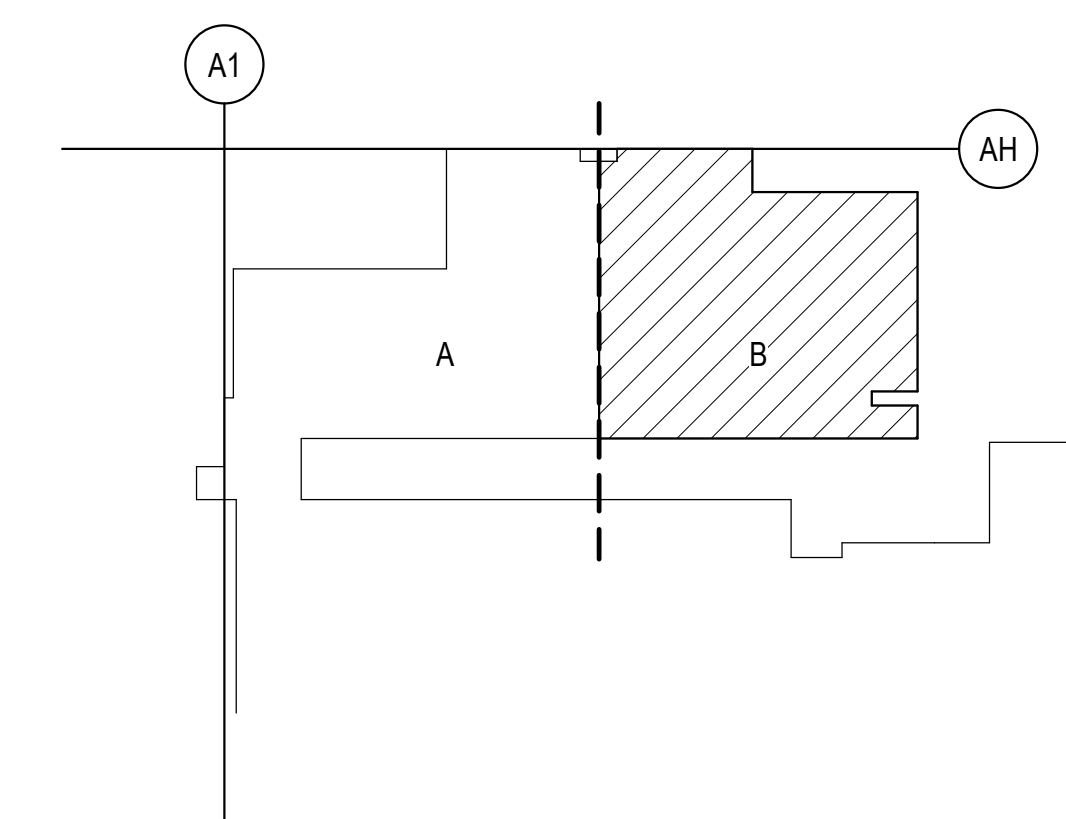


1 BUILDING A - MECHANICAL PARTIAL ROOF PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN



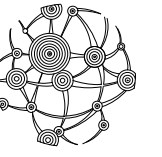
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Building No: ?00?
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MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

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TITLE
**BUILDING A -
MECHANICAL PARTIAL
ROOF PLAN - AREA B**

SHEET
MA-221B

0 1/4" 1/2" 1"

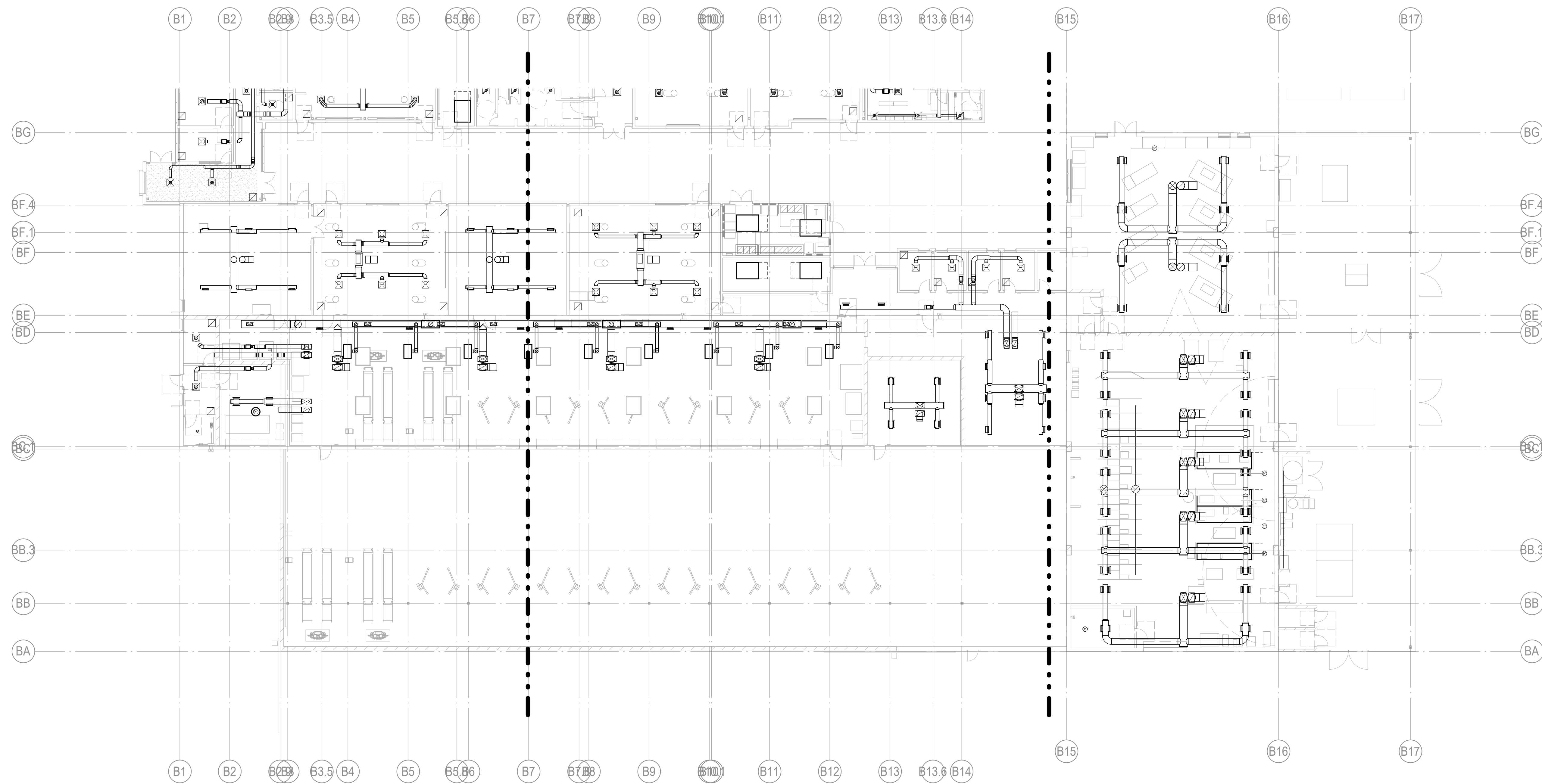
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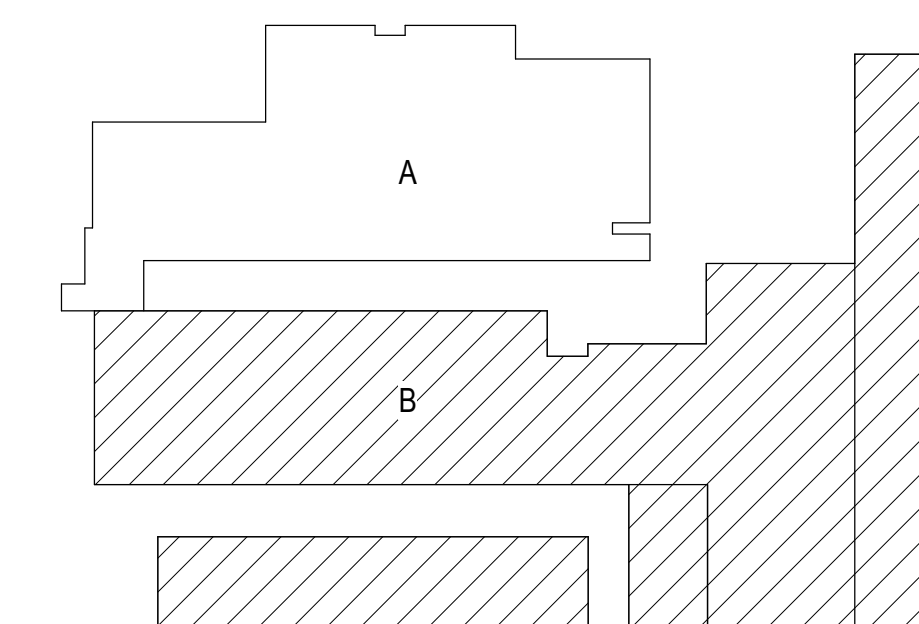


1 BUILDING B - MECHANICAL OVERALL FLOOR PLAN
1/16" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN



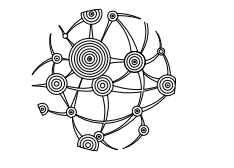
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Facility No: ?00000?7
Building No: ?00?7
OSHPD No: ?P-2016-XXXXXX?

ISSUED	MARK	DATE	DESCRIPTION
		01/10/2020	50% DESIGN DEVELOPMENT

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TITLE
BUILDING B -
MECHANICAL OVERALL
FLOOR PLAN

SHEET
MB-211

0 1/4" = 1'

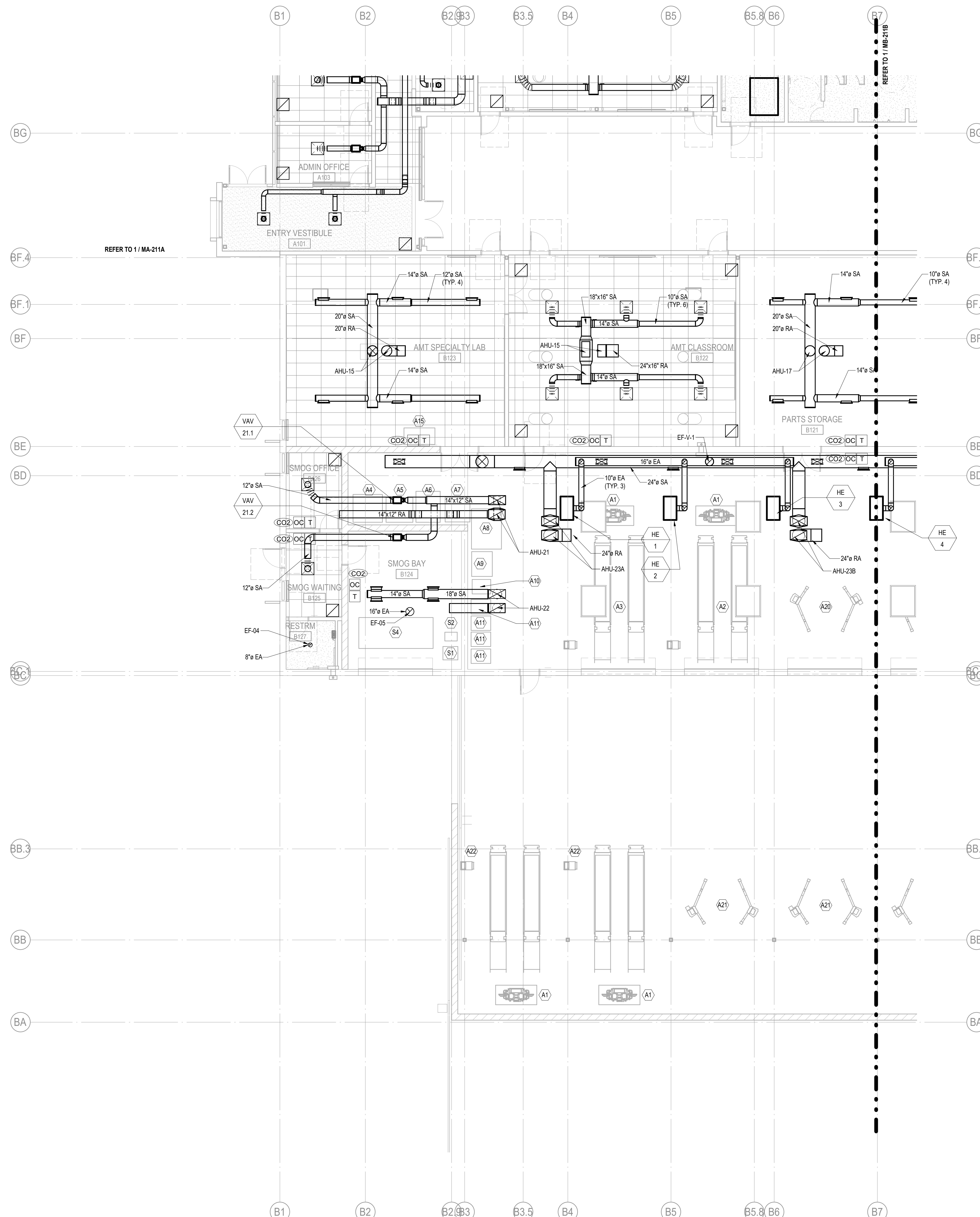
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1 BUILDING B - MECHANICAL PARTIAL FLOOR PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

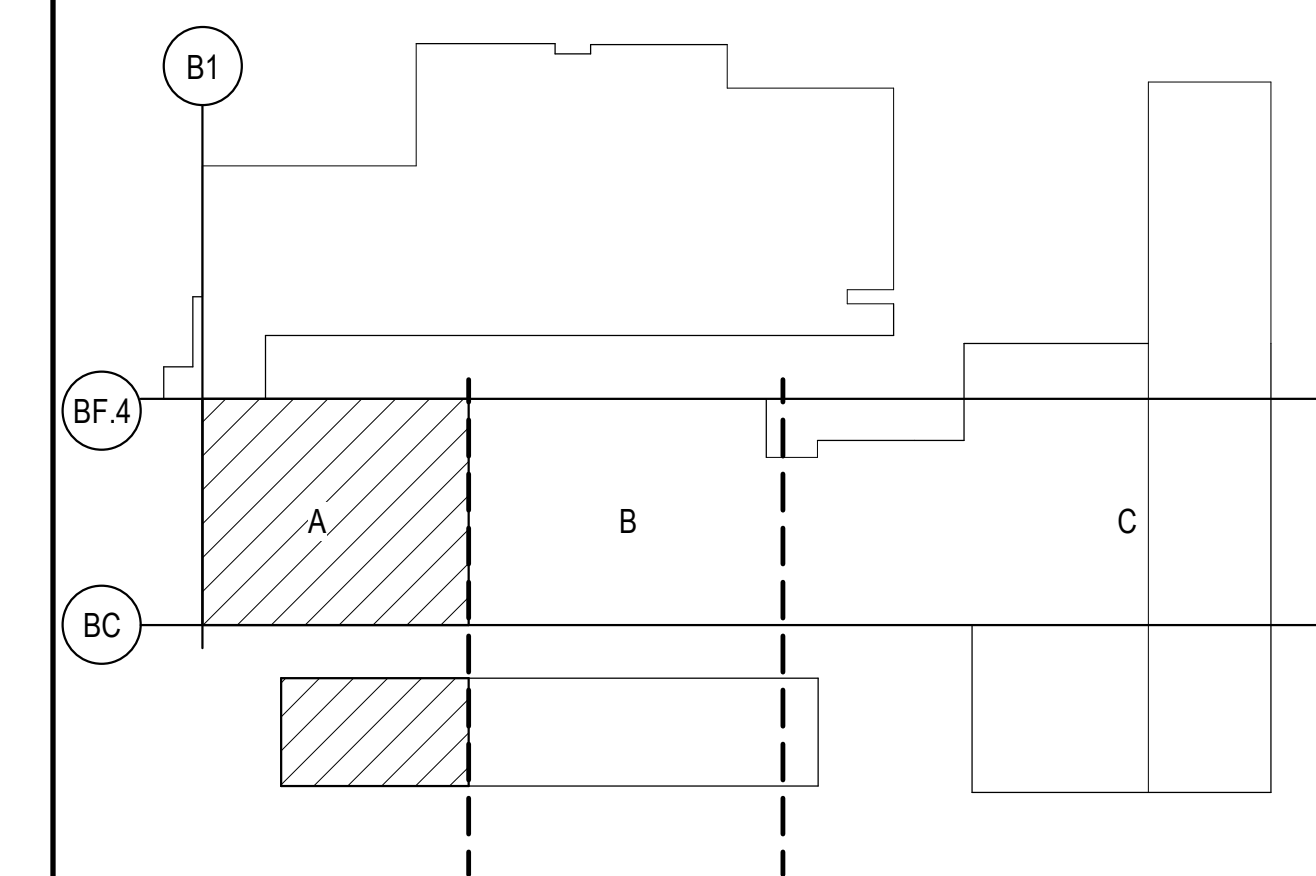
EQUIPMENT SCHEDULE - AUTO TECH	
MARK	EQUIPMENT DESCRIPTION (WH+D)

A1	HUNTER ALIGNMENT SYSTEM
A2	EXISTING FLUSH LIFT
A3	EXISTING PH LIFT
A4	HUNTER TC3000 TIRE MACHINE (54"x76"x57")
A5	HUNTER TIRE BALANCER (52"x72"x48")
A6	SNAP ON JB WHEEL BALANCER X
A7	PRESS
A8	SNAP ON JOHN BEAN TIRE MACHINE (58"x88"x78")
A9	DYNAPACK CHASSIS WATER TANK (48"x46"x40")
A10	DYNAPACK CHASSIS TOOL CART (36"x48"x28")
A11	DYNAPACK CHASSIS LOAD CELLS (28"x28"x38")
A15	HYBRID TRAINER (COMPUTER) (60"x65"x32")
A20	NEW ROTARY VEHICLE LIFT (168"x140"x84")
A21	EXISTING ROTARY VEHICLE LIFT (168"x140"x84")
A22	ROTARY VEHICLE LIFT POWER UNIT

EQUIPMENT SCHEDULE - SMOG BAY	
MARK	EQUIPMENT DESCRIPTION (WH+D)

S1	SMOG REFEREE OIS INSPECTION CONSOLE (28"x65"x29")
S2	SMOG REFEREE LOW PRESSURE FUEL EVAPORATIVE TESTER (24"x38"x17")
S4	SMOG REFEREE BAR97 EMISSIONS DYNAMOMETER (144"x66"x60")

KEY PLAN



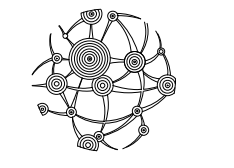
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ISSUED		
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

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TITLE
BUILDING B -
MECHANICAL PARTIAL
FLOOR PLAN - AREA A

SHEET

MB-211A

0 1/4" = 1'-0"

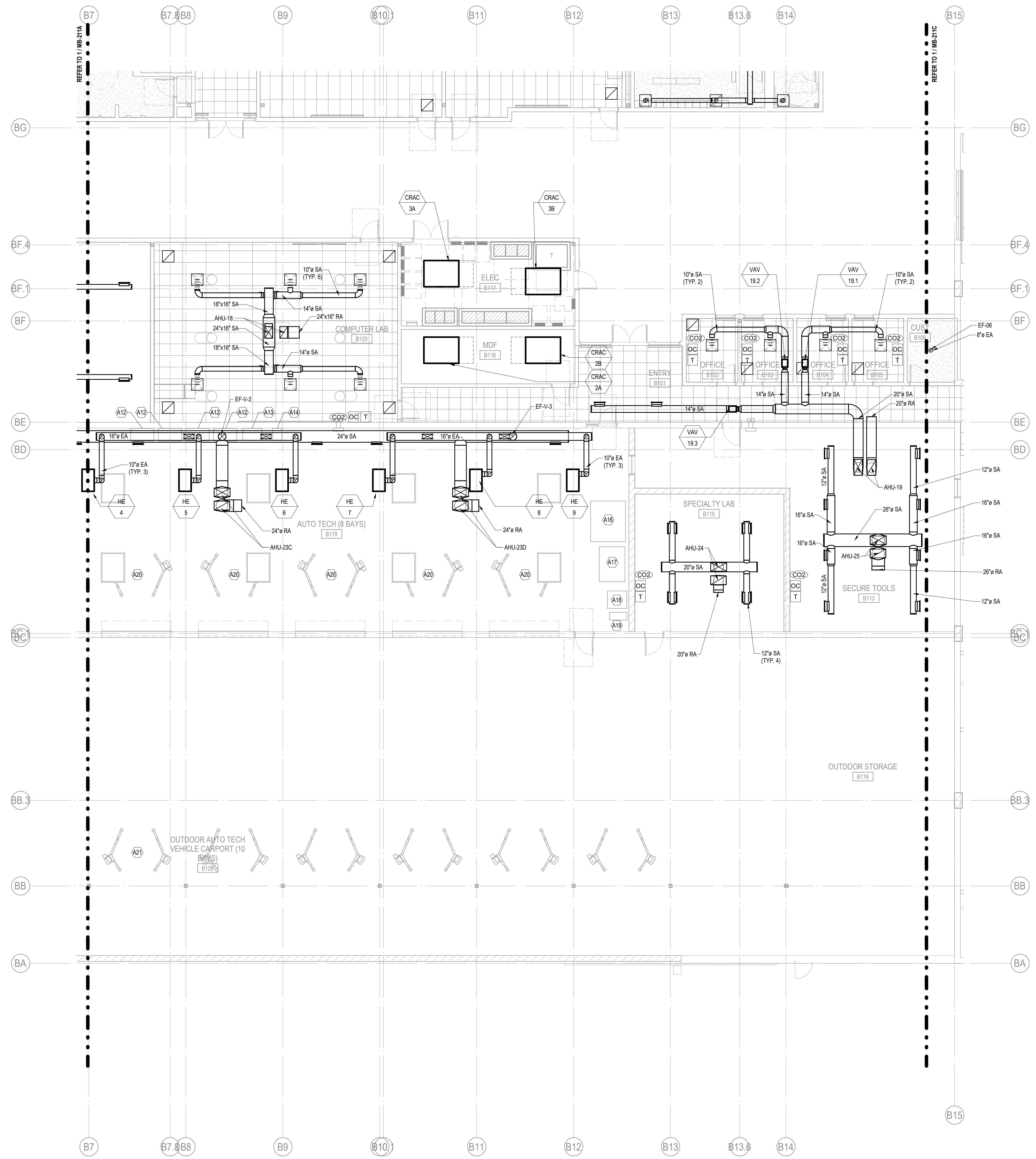
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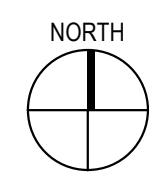
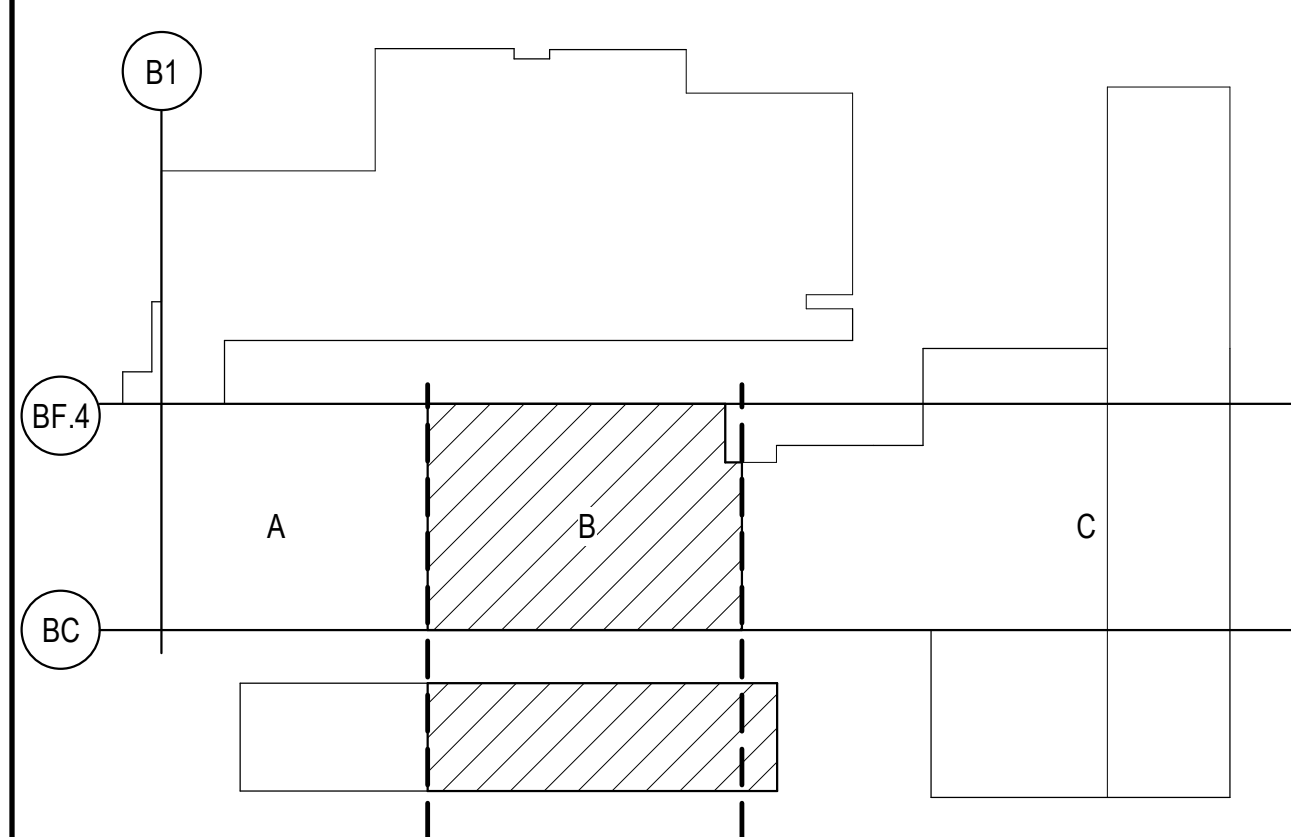
1 BUILDING B - MECHANICAL PARTIAL FLOOR PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

EQUIPMENT SCHEDULE - AUTO TECH	
MARK	EQUIPMENT DESCRIPTION (WxHxD)
A12	AMMCO BRAKE LATHE (48"x68"x26")
A13	SNAP ON JOHN BEAN BRAKE LATHE (40"x7'1"x24")
A14	PEDESTAL GRINDER (19"x52"x24") X
A16	GM TIRE MACHINE (84"x79"x72") X
A17	GM TIRE BALANCER (72"x79"x53") X
A18	GM BRAKE LATHE (40"x7'1"x36")
A19	GM PRESS (36"x70"x16")
A20	NEW ROTARY VEHICLE LIFT (168"x140"x64")
A21	EXISTING ROTARY VEHICLE LIFT (168"x140"x64")

KEY PLAN



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PROJECT
**PUBLIC SAFETY COMPLEX /
 ADVANCED MANUFACTURING AND
 TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: 7000007
 Building No: 7007
 OSHPD No: 7P-2016-XXXXXX?

ISSUED		
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
 LIONAKIS PROJECT NO: 019051
 CLIENT PROJECT NO: _____
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TITLE
**BUILDING B -
 MECHANICAL PARTIAL
 FLOOR PLAN - AREA B**

SHEET
MB-211B

0 1/4" = 1'

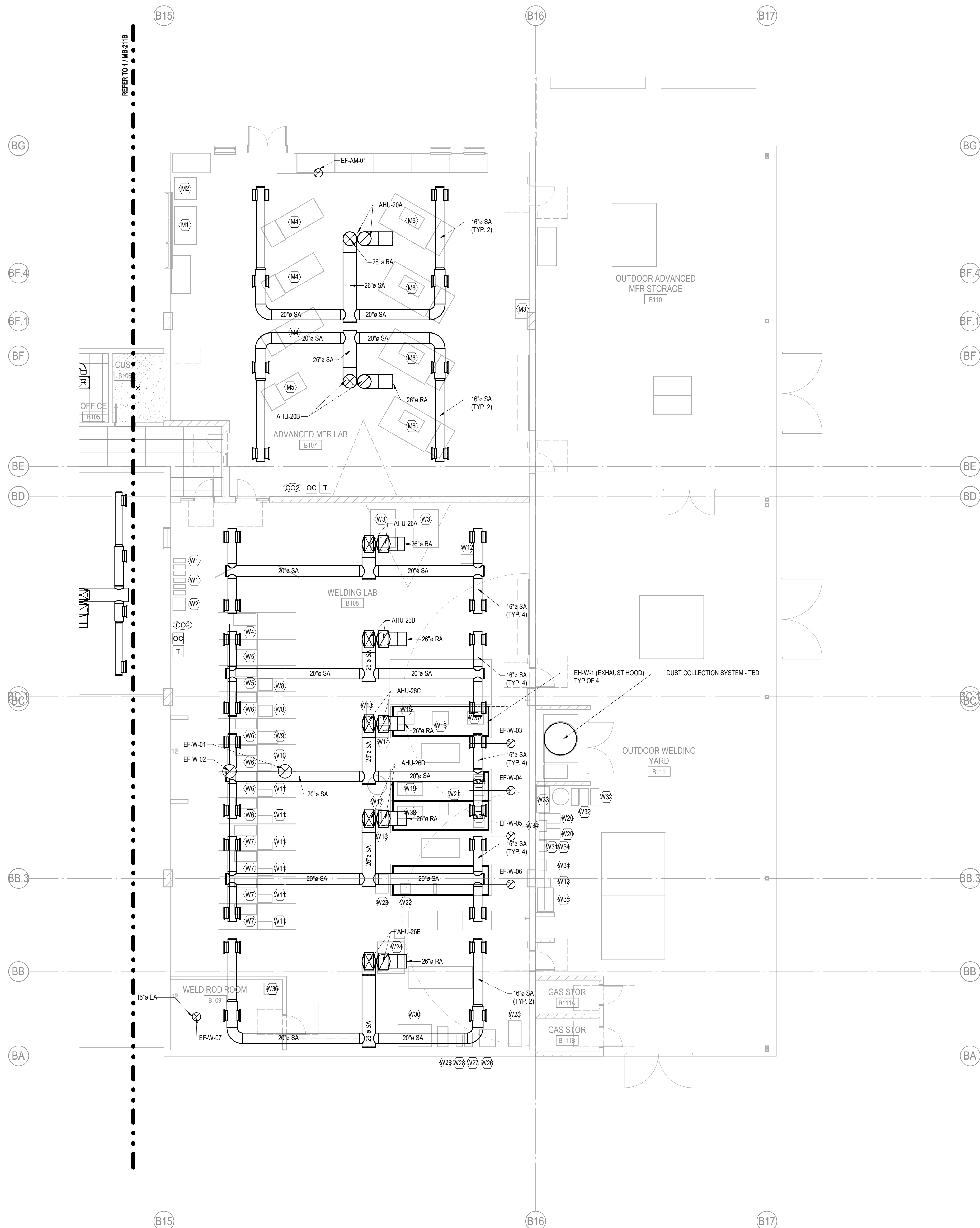
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C

B

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1/17/2020 2:51:48 PM



1 BUILDING B - MECHANICAL PARTIAL FLOOR PLAN - AREA C
1/8" = 1'-0"

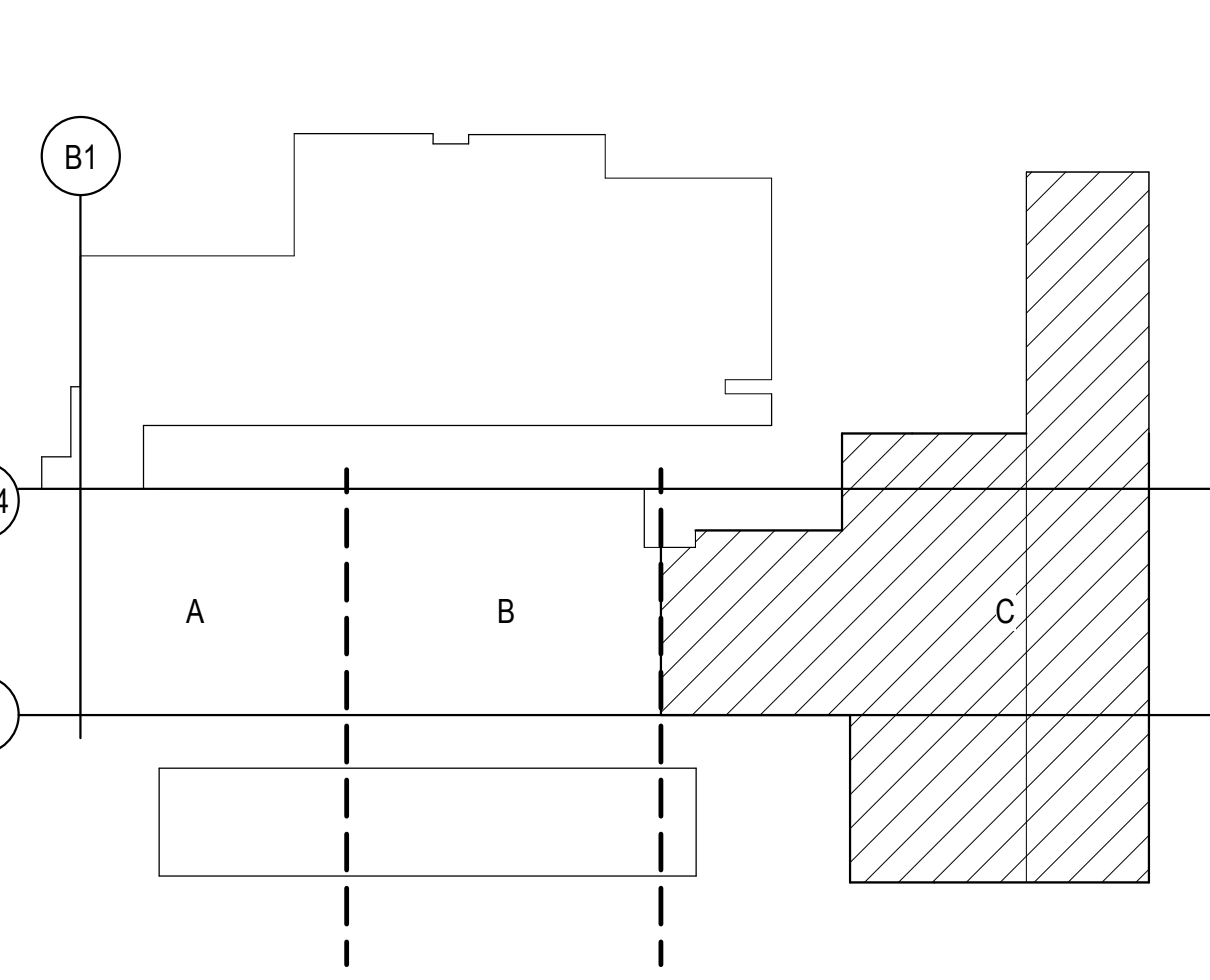
GENERAL NOTES

SHEET NOTES

EQUIPMENT SCHEDULE - ADVANCED MFR LAB		
Type Mark	EQUIPMENT DESCRIPTION (W/H/D)	COMMENTS
M1	LASER CUTTER	CUT SHEET REQUIRED
M2	3D PRINTER	CUT SHEET REQUIRED
M3	MEGA 350 COLD SAW AND COOLANT PUMP (28'x30'x36')	CUT SHEET REQUIRED
M4	SI LATHE 1630SX-HSSX (84'x1'x40')	-
M5	JET 102X LATHE (49'x59'x34')	CUT SHEET REQUIRED
M6	SI MILL DPMSX2P (101'x82'x63-1/2')	-

EQUIPMENT SCHEDULE - WELDING LAB		
Type Mark	EQUIPMENT DESCRIPTION (W/H/D)	COMMENTS
W1	MILLER 280DX WELDING POWER SUPPLY (8'x12'x22')	-
W2	TIG BENCH GRINDER (24'x42'x24')	CUT SHEET REQUIRED
W3	K3962-1, LINCOLN VRTEX 360 (48'x72'x72')	-
W4	MILLER MP-75E (22-1/4'x34'x42')	-
W5	MILLER GMAW 252 (19'x30'x40')	-
W6	MILLER GMAW 251 (19'x32'x38')	-
W7	MILLER 355P (19'x34'x41')	-
W8	K2622-1 PRECISION TIG 375 (22' x 31' x 28')	-
W9	450AMP DIM 452 (21-1/8'x20'x35')	-
W10	K4160-1 FLEXCUT 125 (12-1/4'x20-3/4'x25-1/2')	-
W11	GMAW POWER WAVE C300	-
W12	MILLER AC WELDER (17'x35'x24')	CUT SHEET REQUIRED
W13	TORCHMATE CNC PLASMA CUTTER (42'x60'x42')	CUT SHEET REQUIRED
W14	25 DX SYNCHROWAVE (23'x36-1/4'x28') X	-
W15	ORBITAL WELDER	CUT SHEET REQUIRED
W16	SHT. SHEAR	-
W17	TRIANGLE ENGINEERING TEST PLATE BENDER (30" DIAMETER 54")	CUT SHEET REQUIRED
W18	HYPERTHERM PLASMA CUTTER (12'x17'x24')	CUT SHEET REQUIRED
W19	PAN BREAK	-
W20	WELDER	CUT SHEET REQUIRED
W21	PIPE PRO 450 (17-3/32'x31'x19-3/32')	-
W22	PIPE ROLL	-
W23	PIPE ROTATORS AND TABLE (24' x 54' x 36')	-
W24	LASER STAR WELDER/ CUTTER AND AIR FILTER (LASER 60'x77'x22", AIR FILTER 17.5'x28-1/2'x18-1/2')	CUT SHEET REQUIRED
W25	UNIVERSAL FABRICATOR (24'x63'x49')	CUT SHEET REQUIRED
W26	IRON WORKER (30'x68'x32')	CUT SHEET REQUIRED
W27	ROCKWELL DRILL PRESS (15'x68'x26')	CUT SHEET REQUIRED
W28	OTMT DRILL PRESS (12'x63'x22')	CUT SHEET REQUIRED
W29	CHOP SAW AND TABLE (38'x60'x21')	CUT SHEET REQUIRED
W30	FMB HORIZONTAL BANDSAW (63'x75'x42')	CUT SHEET REQUIRED
W31	TIG WATER PUMP SYSTEM	-
W32	GRINDER (32'x55'x16')	CUT SHEET REQUIRED
W33	TRIANGLE ENGINEERING BACKING PLATE GRINDER (24'x48'x48')	CUT SHEET REQUIRED
W34	98820810, 8" BENCH GRINDER (21'x15'x15')	CUT SHEET REQUIRED
W35	CYCLONE ABRASIVE BLAST CABINET (45'x60'x30')	CUT SHEET REQUIRED
W36	PHOENIX ROD OVEN (22" DIAMETER)	CUT SHEET REQUIRED
W37	SHEET ROLLER	-
W38	BENDER	-

KEY PLAN



FILE NO. ?XX-XXXX?
IDENTIFICATION STAMP
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?XX-XXX?
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Sacramento CA 95811
P 916.558.1900 F 916.558.1919
www.lionakis.com
CONSULTANT

INTEGRAL
427 13th Street
Oakland, CA 94612
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Building No: 9007
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ISSUED
MARK DATE DESCRIPTION
01/10/2020 50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING B -
MECHANICAL PARTIAL
FLOOR PLAN - AREA C**

SHEET
MB-211C

0 1/4" 1/2" 1"

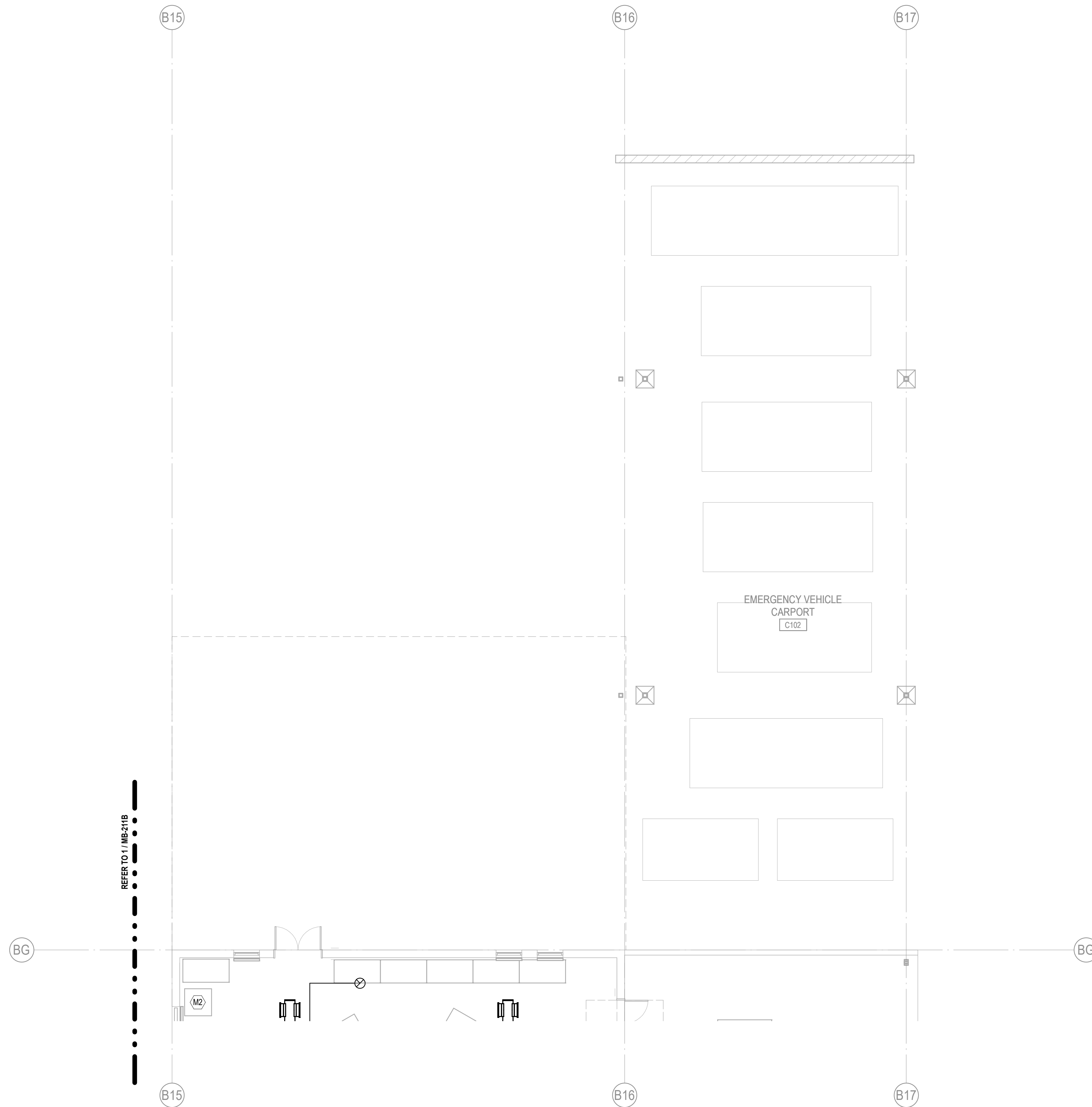
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1/17/2020 2:51:52 PM



1 BUILDING B - MECHANICAL PARTIAL FLOOR PLAN - CARPORT
1/8" = 1'-0"

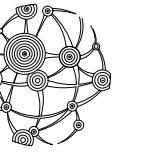
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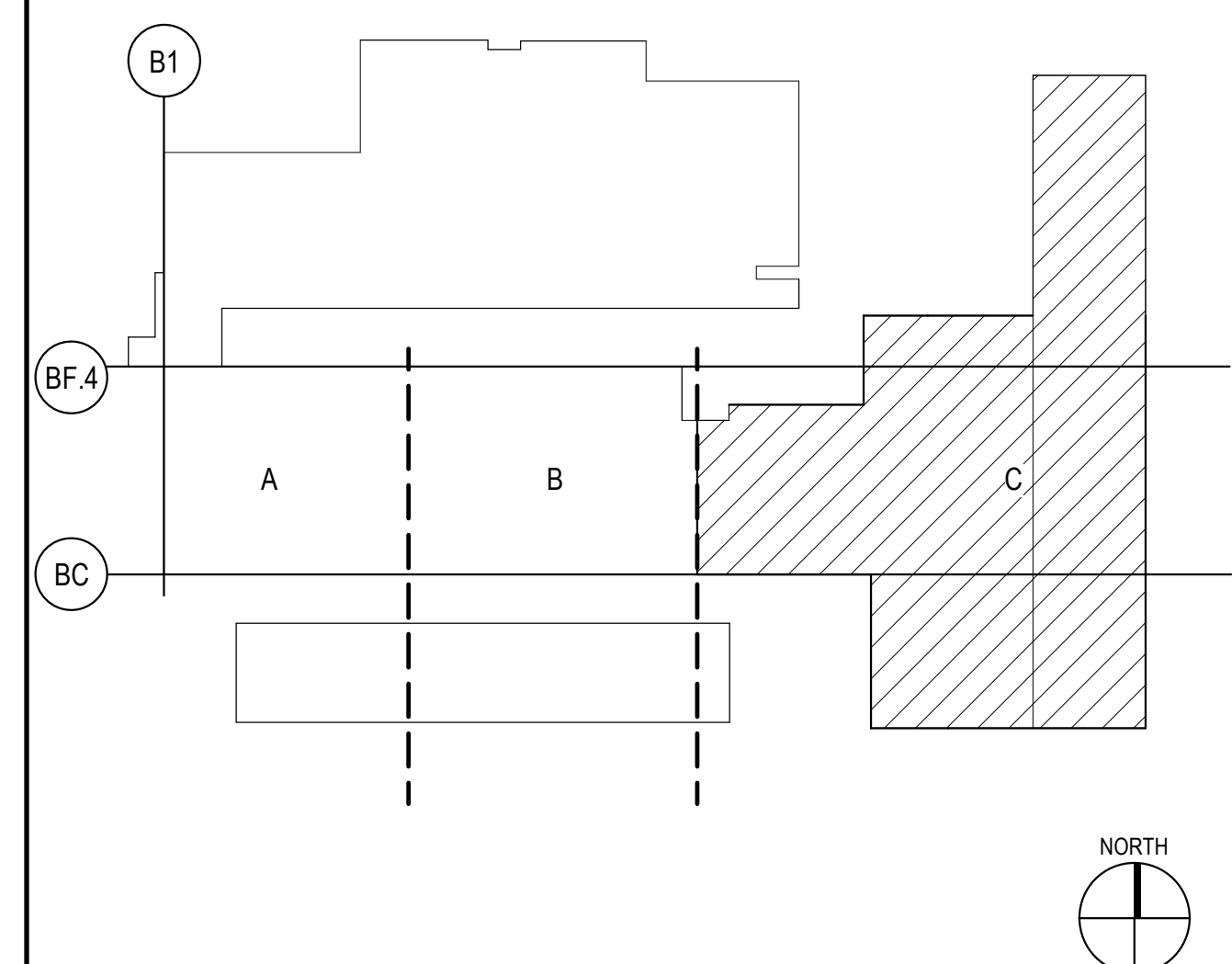
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DUBLIN, CA 94568

Facility No: ?00000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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KEY PLAN



TITLE
**BUILDING B -
MECHANICAL PARTIAL
FLOOR PLAN -
CARPORT**

SHEET

MB-211D

0 1/4" = 1'

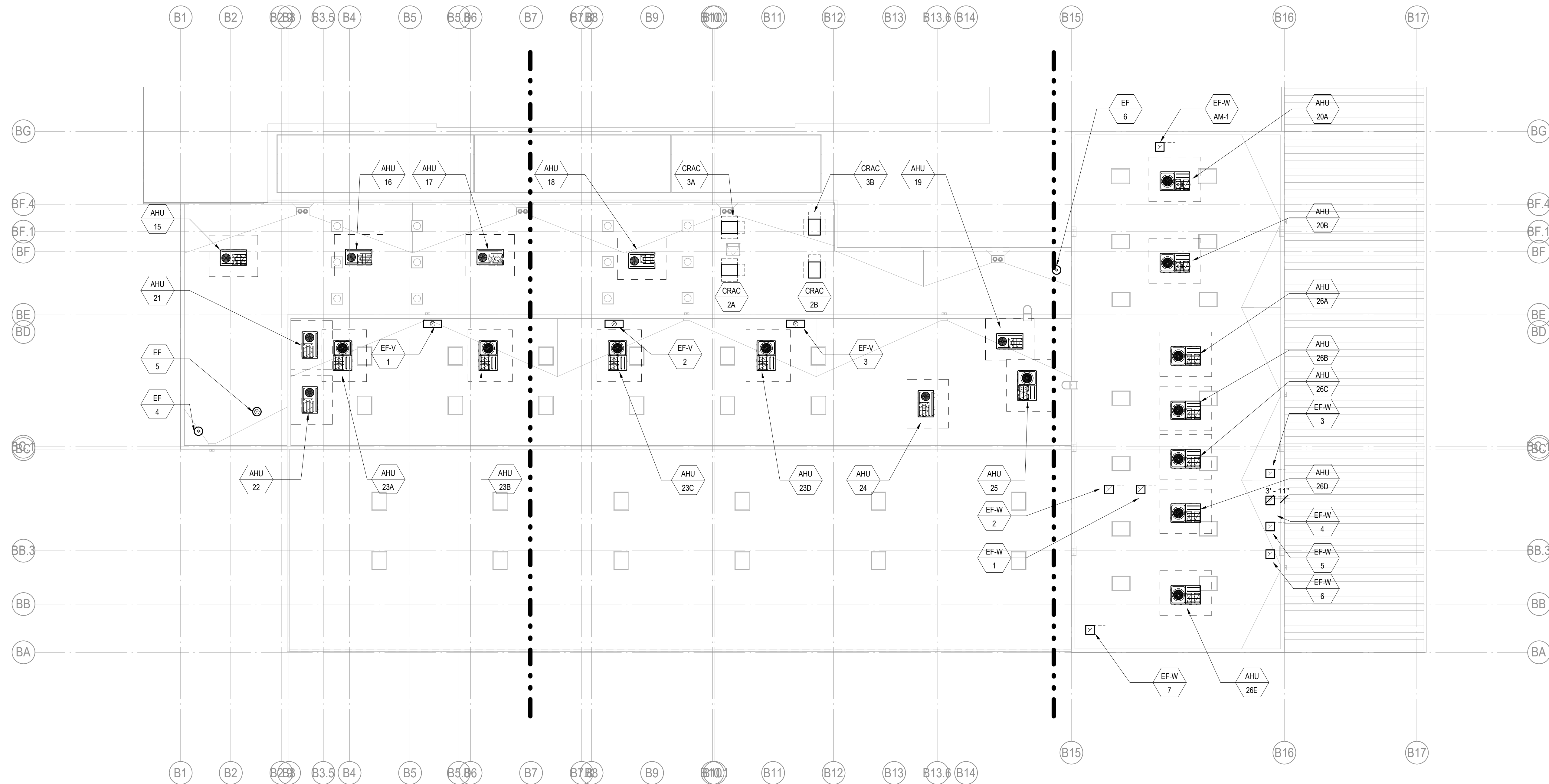
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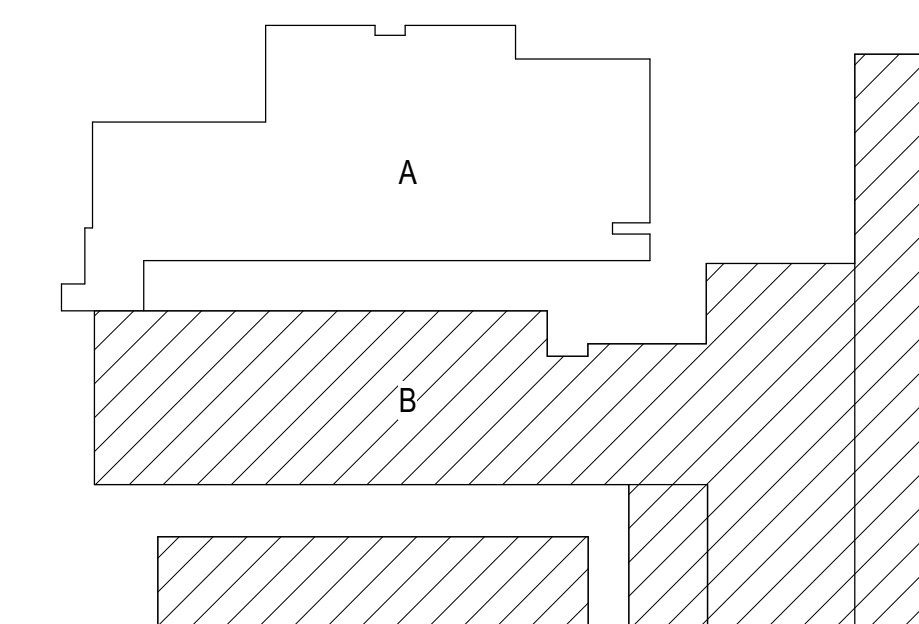


1 BUILDING B - MECHANICAL OVERALL ROOF PLAN
1/16" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN

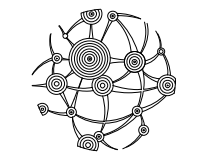


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Facility No: ?00000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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CLIENT PROJECT NO: -
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TITLE
**BUILDING B -
MECHANICAL OVERALL
ROOF PLAN**

SHEET
MB-221

0 1/4" = 1'-0"

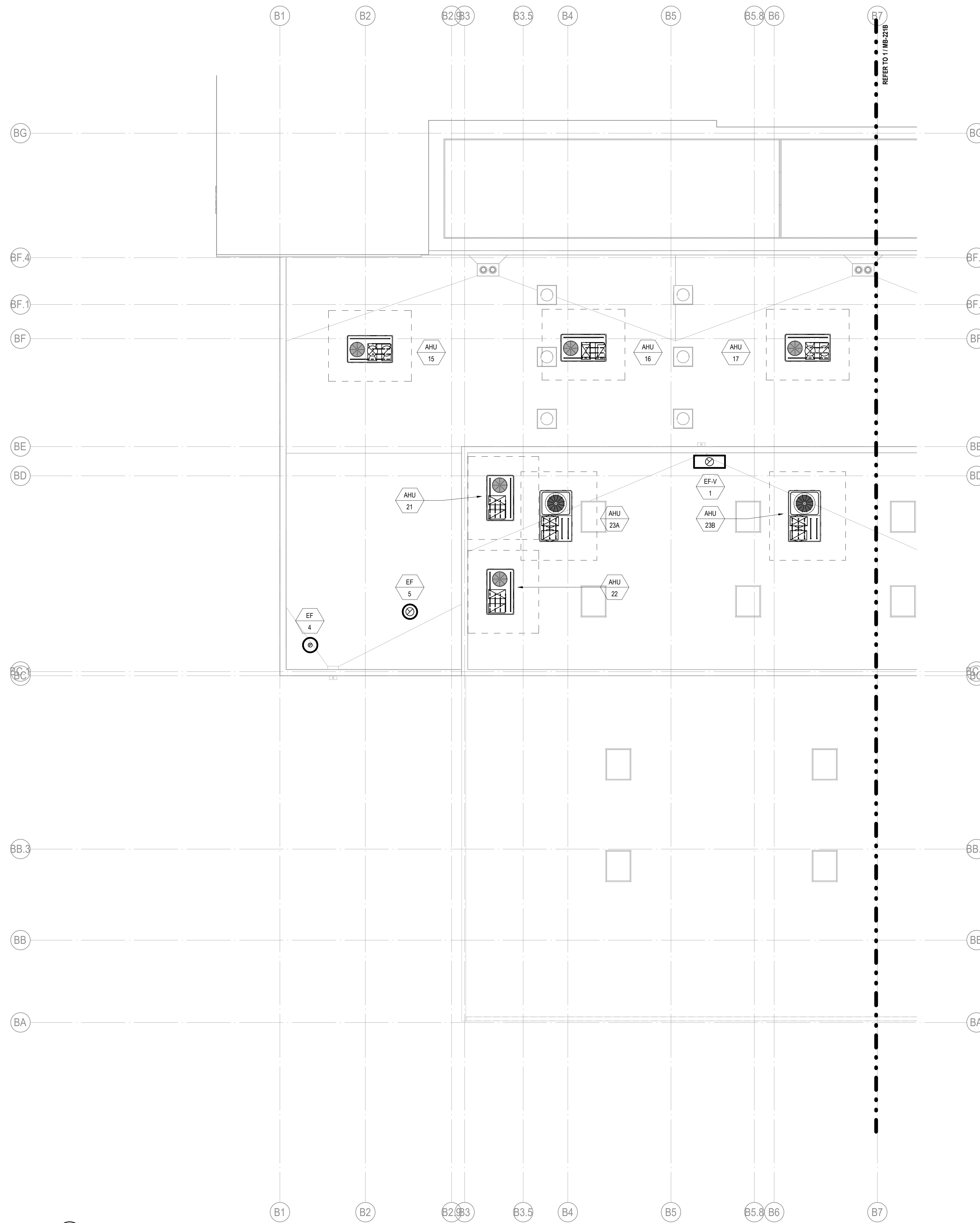
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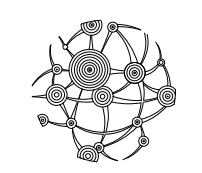
1 BUILDING B - MECHANICAL PARTIAL ROOF PLAN - AREA A
1/8" = 1'-0"

FILE NO. ?XX-XXXX?
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 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

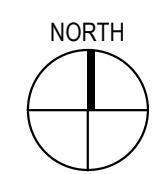
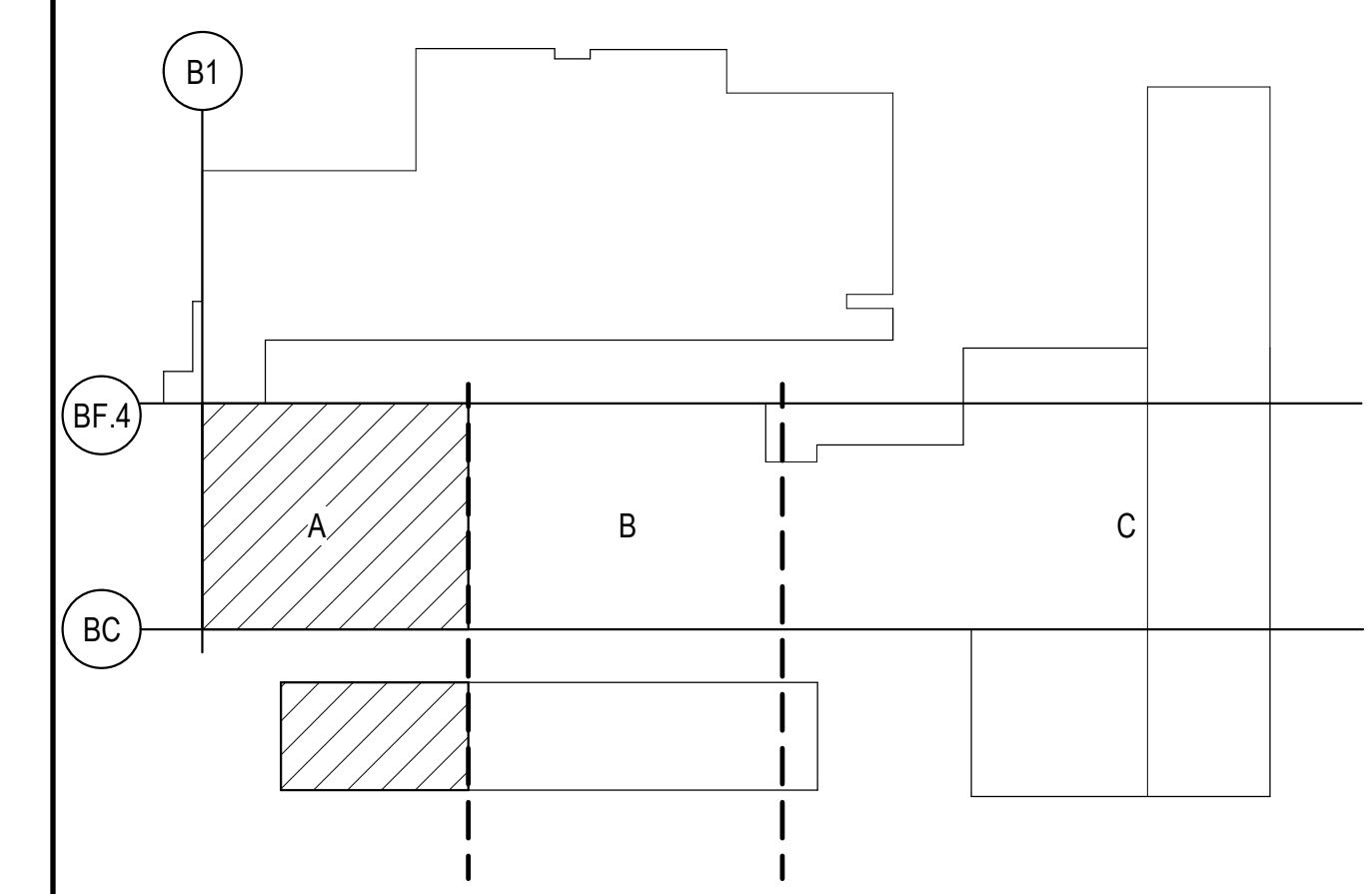
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 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: ?000000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
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MANAGEMENT	
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KEY PLAN



TITLE
**BUILDING B -
 MECHANICAL PARTIAL
 ROOF PLAN - AREA A**

SHEET
MB-221A

0 1/4" = 1'-0"

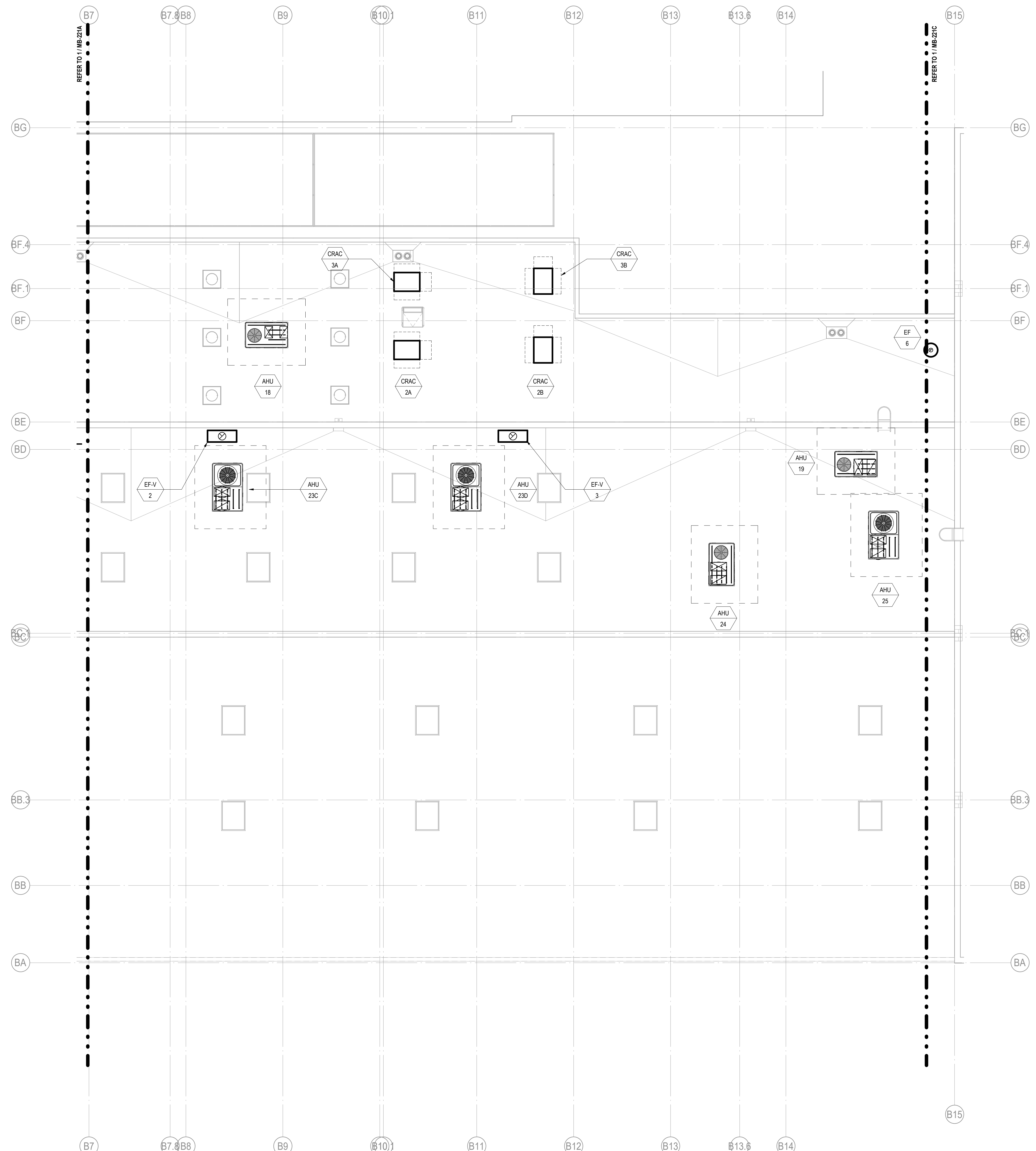
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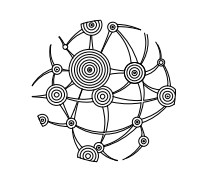
1 BUILDING B - MECHANICAL PARTIAL ROOF PLAN - AREA B
1/8" = 1'-0"

FILE NO. ?XX-XXXX?
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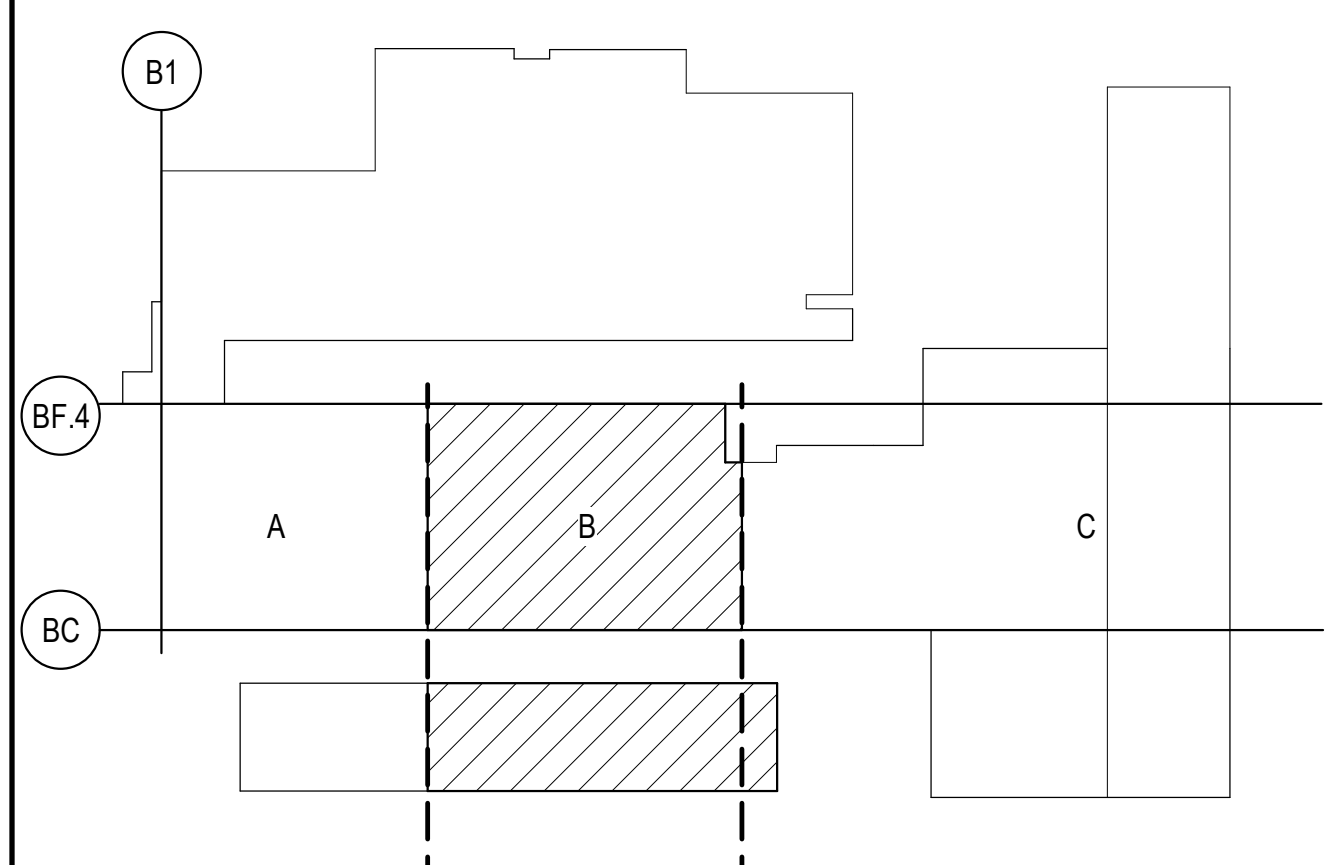
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CHABOT-LAS POSITAS COMMUNITY
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7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?XXXXXX?
Building No: ?XX?
OSHPD No: ?P-2016-XXXXXX?

ISSUED		
MARK	DATE	DESCRIPTION
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KEY PLAN



TITLE
**BUILDING B -
MECHANICAL PARTIAL
ROOF PLAN - AREA B**

SHEET
MB-221B

0 1/4" = 1'-0"

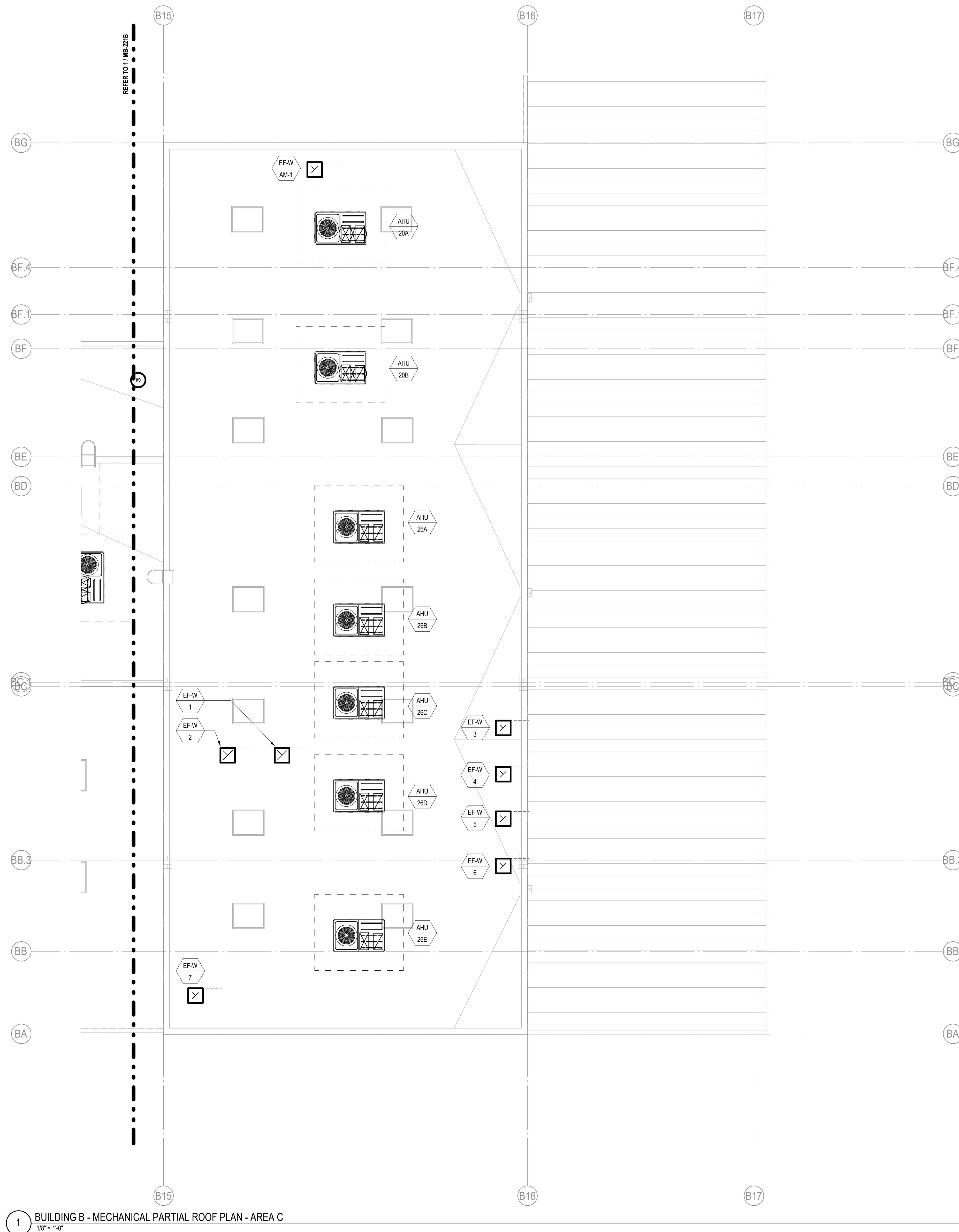
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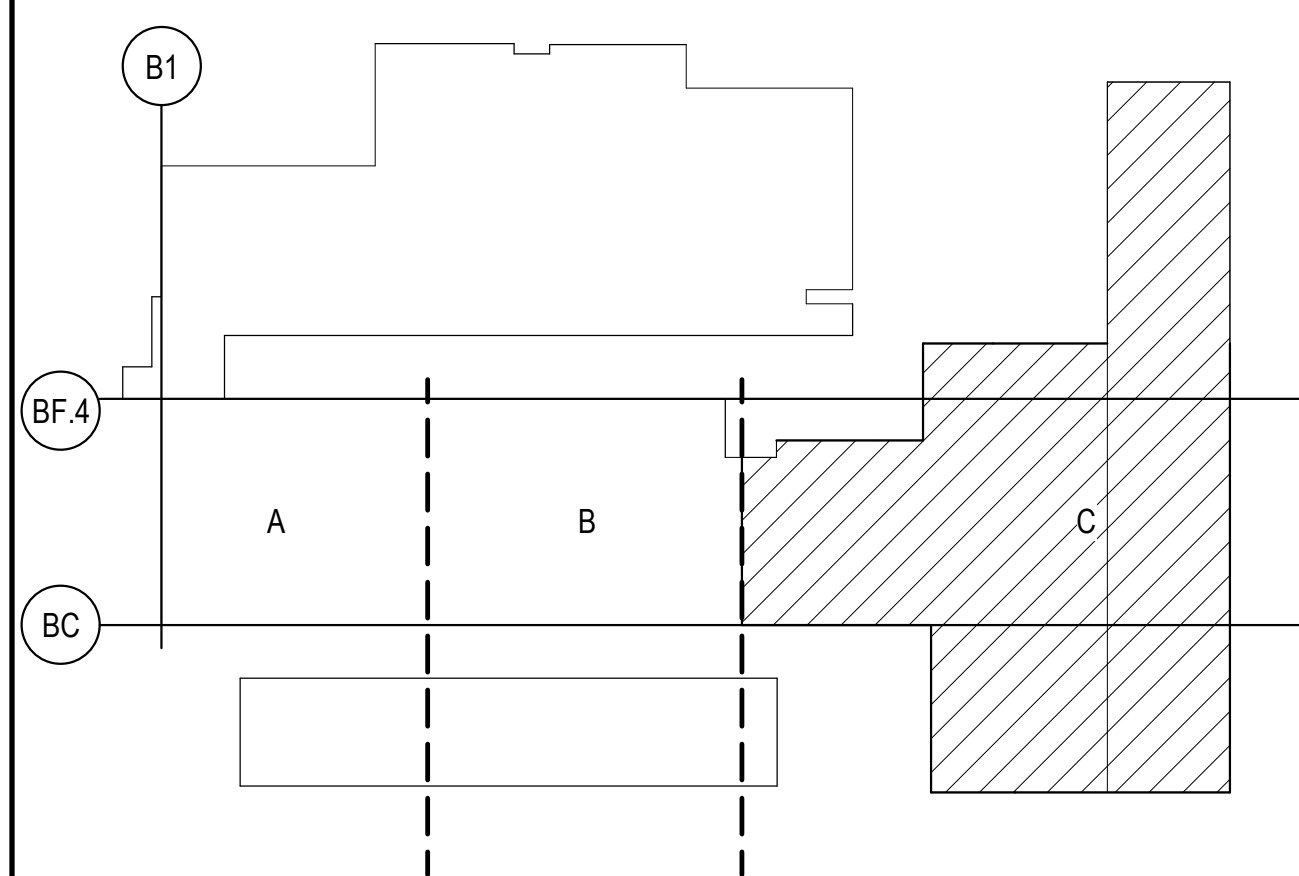


1 BUILDING B - MECHANICAL PARTIAL ROOF PLAN - AREA C
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

KEY PLAN



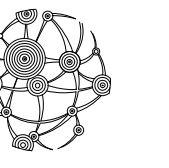
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Building No: ?00?7
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MANAGEMENT

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TITLE
**BUILDING B -
MECHANICAL PARTIAL
ROOF PLAN - AREA C**

SHEET
MB-221C

0 1/4" 1/2" 1"

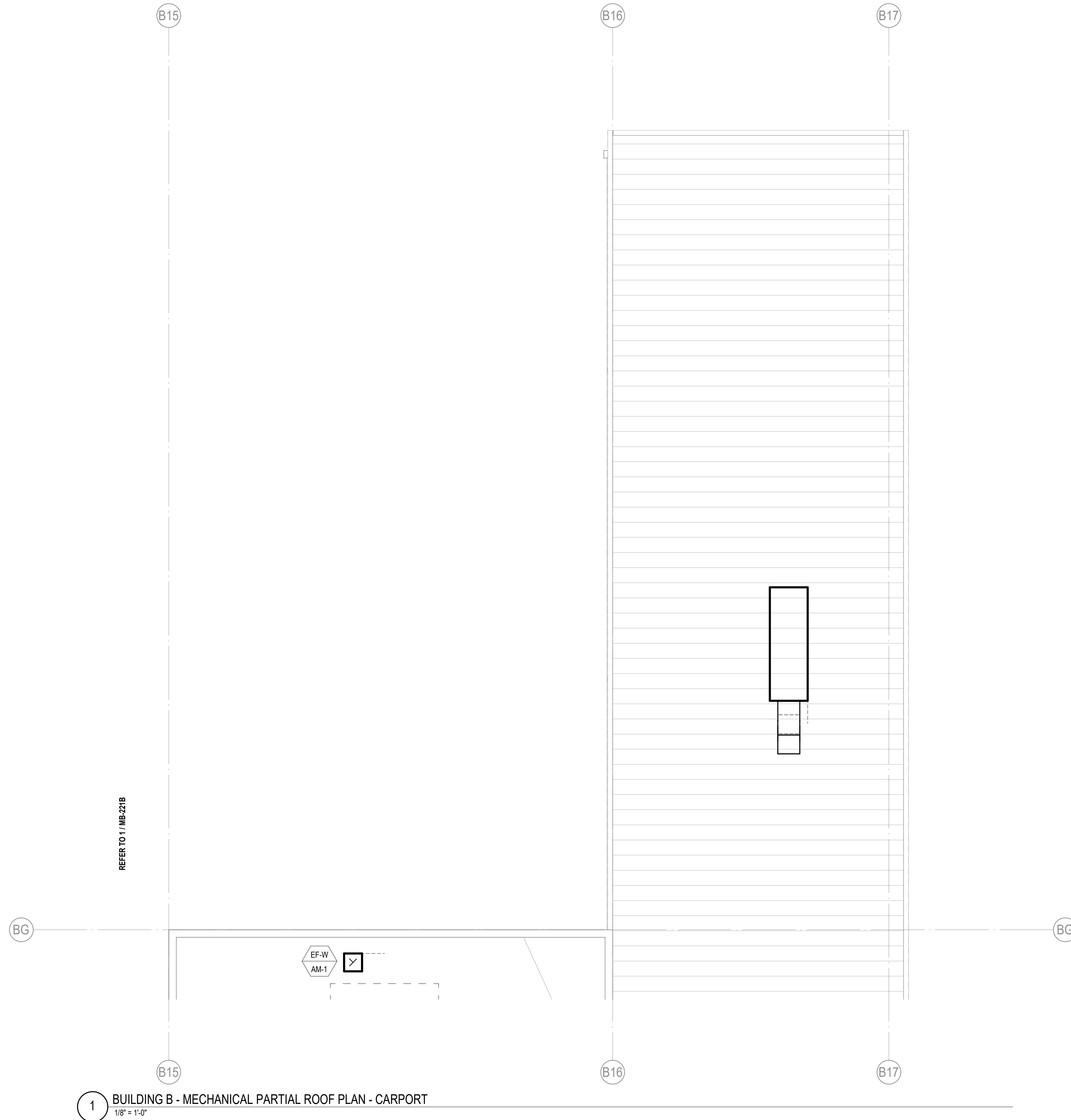
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B

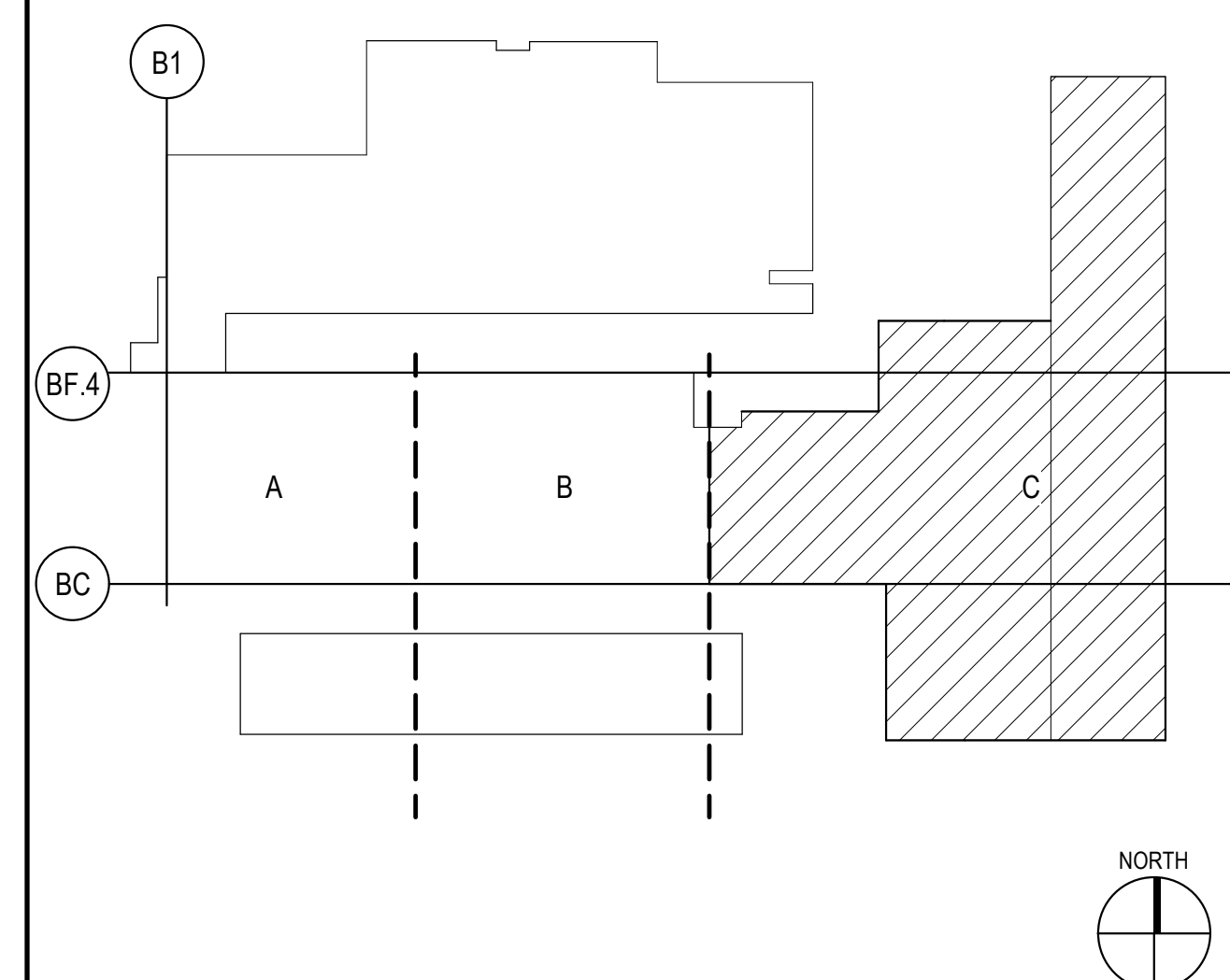
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1 BUILDING B - MECHANICAL PARTIAL ROOF PLAN - CARPORT
1/8" = 1'-0"

KEY PLAN

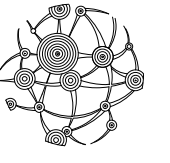


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TITLE

**BUILDING B -
 MECHANICAL PARTIAL
 ROOF PLAN - CARPORT**

SHEET

MB-221D



ELECTRICAL SYMBOLS AND LEGEND

EXISTING / DEMOLITION		POKE THRU	FLOOR	WALL	CEILING	RECEPTACLES / POWER		WALL	CEILING	LIGHTING		RECESSED	SURFACE	GENERAL ELECTRICAL SYMBOLS			
	EXISTING EQUIPMENT / RACEWAYS TO REMAIN						MULTI-OUTLET RACEWAY WITH PREWIRED RECEPTACLES MOUNTED 12" ON CENTER UNLESS OTHERWISE NOTED. NUMBER IN (X) PARENTHESIS INDICATES DISTANCE BETWEEN DEVICES. WHERE MULTIPLE CIRCUITS ARE INDICATED CIRCUITS ALTERNATE ALONG ENTIRE LENGTH OF RACEWAY				SURFACE MOUNTED TROFFER				SURFACE MOUNTED TROFFER		DISCONNECT SWITCH, 30 AMP MINIMUM UNLESS NOTED OTHERWISE
	EXISTING EQUIPMENT / RACEWAYS TO BE REMOVED						SIMPLEX RECEPTACLES				SUSPENDED OR PENDANT MOUNTED LUMINAIRE				SURFACE MOUNTED TROFFER		FUSED DISCONNECT SWITCH, 30 AMP MINIMUM UNLESS NOTED OTHERWISE
	NEW EQUIPMENT / RACEWAYS						DUPLEX RECEPTACLES				STRIP OR TRACK LIGHT				SURFACE MOUNTED TROFFER		COMBINATION DISCONNECT SWITCH MOTOR STARTED
	EXISTING TO REMAIN						QUADRUPLEX RECEPTACLES				SURFACE MOUNTED DOWNLIGHT				RECESSED MOUNTED DOWNLIGHT		MOTOR, 5 HP INDICATED
	EXISTING TO BE REMOVED						SPECIAL RECEPTACLES (DUPLEX & QUADRUPLEX) REFER TO SPECIAL RECEPTACLE SCHEDULE, THIS SHEET				PENDANT MOUNTED DOWNLIGHT				WALL MOUNTED LUMINAIRE		TRANSFORMER
	NEW EQUIPMENT, LIGHTING FIXTURE OR DEVICE						GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLES				DIRECTIONAL LUMINAIRE				POLE MOUNT FIXTURES (1, 2, 3, 4 HEADS)		RELAY OR EQUIPMENT CABINET AS INDICATED ON PLAN
SINGLE LINE DIAGRAM							CLOCK RECEPTACLES				TRACK				TRACK		FREE STANDING SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
	TRANSFORMER, AS NOTED ON SINGLE LINE DISGRAM						JUNCTION BOX 4" SQUARE MINIMUM FOR WALL OR CEILING MOUNTED				MULTIPLES				MULTIPLES		FIRE TREATED PLYWOOD BACKBOARD 3/4"x96" HIGH X LENGTH AS INDICATED
	TRANSFORMER, AS NOTED ON SINGLE LINE DISGRAM						JUNCTION BOX SIZE AS REQUIRED FOR NUMBER OF WIRES OR RACEWAYS				UNDERWRITE				UNDERWRITE		ELECTRICAL EQUIPMENT DESIGNATION DESIGNATED "EQ01"
	CIRCUIT BREAKER, 3 POLE UNLESS NOTED OTHERWISE						DEMAND TYPE KWH METER				DEMAND TYPE KWH METER				DEMAND TYPE KWH METER		REFERENCE TO NOTE "1" ON SAME SHEET
	MOTOR STARTER WITH OVERCURRENT PROTECTION, 3 POLE UNLESS NOTED OTHERWISE						DEMAND TYPE KWH METER WITH ENCLOSURE				DEMAND TYPE KWH METER WITH ENCLOSURE				DEMAND TYPE KWH METER WITH ENCLOSURE		LIGHTING FIXTURE DESIGNATION FA = FIXTURE TYPE
	MOTOR STARTER WITH FUSED AND DISCONNECT SWITCH, 3 POLE UNLESS NOTED OTHERWISE						PROVISION FOR UTILITY COMPANY KWH METER				PROVISION FOR UTILITY COMPANY KWH METER				PROVISION FOR UTILITY COMPANY KWH METER		MECHANICAL EQUIPMENT DESIGNATION "P-1" INDICATED
	GROUND FAULT RELAY						KIRK-KEY INTERLOCK BETWEEN DEVICES				KIRK-KEY INTERLOCK BETWEEN DEVICES				KIRK-KEY INTERLOCK BETWEEN DEVICES		EQUIPMENT NAME OR NUMBER
	SHUNT TRIP RELAY						AUTOMATIC TRANSFER SWITCH WITH GENERATOR STARTING AND TRANSFER SWITCH STATUS CONTACTS				AUTOMATIC TRANSFER SWITCH WITH GENERATOR STARTING AND TRANSFER SWITCH STATUS CONTACTS				AUTOMATIC TRANSFER SWITCH WITH GENERATOR STARTING AND TRANSFER SWITCH STATUS CONTACTS		MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR EQUIPMENT
	DRAW-OUT CIRCUIT BREAKER						AUTOMATIC TRANSFER SWITCH WITH BY-PASS ISOLATION, GENERATOR STARTING CONTACTS AND TRANSFER SWITCH STATUS CONTACT				AUTOMATIC TRANSFER SWITCH WITH BY-PASS ISOLATION, GENERATOR STARTING CONTACTS AND TRANSFER SWITCH STATUS CONTACT				AUTOMATIC TRANSFER SWITCH WITH BY-PASS ISOLATION, GENERATOR STARTING CONTACTS AND TRANSFER SWITCH STATUS CONTACT		MOUNTING HEIGHT FROM FINISHED FLOOR TO BOTTOM OF OUTLET OR EQUIPMENT
	NON-FUSED DISCONNECT SWITCH, 30 AMP, 3P UNLESS NOTED OTHERWISE						CURRENT TRANSFORMER (CT)				CURRENT TRANSFORMER (CT)				CURRENT TRANSFORMER (CT)		DETAIL REFERENCE NUMBER "1" ON DRAWING "E-6"
	FUSED DISCONNECT SWITCH, 3 POLE UNLESS NOTED OTHERWISE						AMMETER				AMMETER				AMMETER		SECTION OR ELEVATION REFERENCE LETTER "A" ON DRAWING "E-6"
	DEMAND TYPE KWH METER						ELECTRONIC METER				ELECTRONIC METER				ELECTRONIC METER		INDICATES HOMERUN WITH THREE CIRCUITS AND A SEPARATE NEUTRALS
	DEMAND TYPE KWH METER WITH ENCLOSURE						SEPARABLE CONNECTOR(S)				SEPARABLE CONNECTOR(S)				SEPARABLE CONNECTOR(S)		INDICATES HOMERUN WITH THREE CIRCUITS AND A SEPARATE NEUTRALS
	PROVISION FOR UTILITY COMPANY KWH METER						GROUND				GROUND				GROUND		
	KIRK-KEY INTERLOCK BETWEEN DEVICES					GROUNDING SYSTEM											
	AUTOMATIC TRANSFER SWITCH WITH GENERATOR STARTING AND TRANSFER SWITCH STATUS CONTACTS					FLOOR	WALL										
	AUTOMATIC TRANSFER SWITCH WITH BY-PASS ISOLATION, GENERATOR STARTING CONTACTS AND TRANSFER SWITCH STATUS CONTACT						GROUND PLATE, FLAT TAPPED SIDE TO BE FLUSH WITH FURNISHED SURFACE. CADWELD B164-20 OR EQUIVALENT										
	CURRENT TRANSFORMER (CT)						GROUND BUS										
	AMMETER						TECHNICAL GROUND BUS										
	ELECTRONIC METER						GROUND ROD										
	SEPARABLE CONNECTOR(S)						GROUND ROD TEST WELL										
	GROUND						EXOTHERMIC GROUND CONNECTION										
							GROUND WIRE										

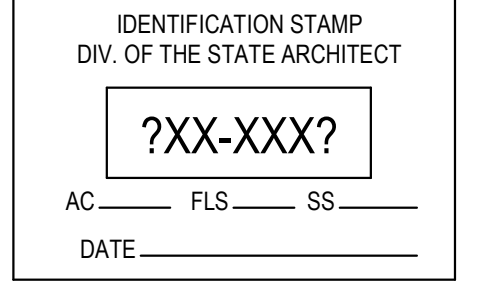
FLOOR	WALL	CEILING	RACEWAYS AND WIRING	
				CONDUIT CONCEALED IN CEILING OR WALL SPACE
				CONDUIT RUN EXPOSED
				CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SPACE
				EXISTING CONDUIT TO REMAIN
				CONDUIT RISING UP FROM RUN
				CONDUIT DROPPING DOWN FROM RUN
				HOMERUN TO PANELBOARD, CABINET OR TERMINAL BACKBOARD AS INDICATED
				HOMERUN TO SWITCHBOARD OR MCC AS INDICATED. REFER TO SINGLE LINE DIAGRAM FOR CONDUIT AND WIRE SIZES
				HOMERUN TO PANEL VIA INDICATED LIGHTING CONTROL RELAY CABINET. REFER TO INDICATED RELAY CABINET SCHEDULE FOR ADDITIONAL INFORMATION AND CONTROL REQUIREMENTS

SHEET LIST - ELECTRICAL	
NUMBER	NAME
E-001	ELECTRICAL LEGEND
E-002	ELECTRICAL GENERAL NOTES AND ABBREVIATIONS
E-003	LIGHTING FIXTURE, PANEL, EQUIPMENT SCHEDULES
E-004	SEQUENCE OF OPERATIONS
E-101	SITE ELECTRICAL PLAN
E-102	SITE LIGHTING PLAN
EA-211	BUILDING A - LIGHTING OVERALL FLOOR PLAN
EA-211A	BUILDING A - LIGHTING PARTIAL FLOOR PLAN - AREA A
EA-211B	BUILDING A - LIGHTING PARTIAL FLOOR PLAN - AREA B
EA-311	BUILDING A - POWER OVERALL FLOOR PLAN
EA-311A	BUILDING A - POWER PARTIAL FLOOR PLAN - AREA A
EA-311B	BUILDING A - POWER PARTIAL FLOOR PLAN - AREA B
EA-321	BUILDING A - POWER OVERALL ROOF PLAN
EA-321A	BUILDING A - POWER PARTIAL ROOF PLAN - AREA A
EA-321B	BUILDING A - POWER PARTIAL ROOF PLAN - AREA B
EB-211	BUILDING B - LIGHTING OVERALL FLOOR PLAN
EB-211A	BUILDING B - LIGHTING PARTIAL FLOOR PLAN - AREA A
EB-211B	BUILDING B - LIGHTING PARTIAL FLOOR PLAN - AREA B
EB-211C	BUILDING B - LIGHTING PARTIAL FLOOR PLAN - AREA C
EB-211D	BUILDING B - LIGHTING PARTIAL FLOOR PLAN - CARPORT
EB-311	BUILDING B - POWER OVERALL FLOOR PLAN
EB-311A	BUILDING B - POWER PARTIAL FLOOR PLAN - AREA A
EB-311B	BUILDING B - POWER PARTIAL FLOOR PLAN - AREA B
EB-311C	BUILDING B - POWER PARTIAL FLOOR PLAN - AREA C
EB-311D	BUILDING B - POWER PARTIAL FLOOR PLAN - CARPORT
EB-321	BUILDING B - POWER OVERALL ROOF PLAN
EB-321A	BUILDING B - POWER PARTIAL ROOF PLAN - AREA A
EB-321B	BUILDING B - POWER PARTIAL ROOF PLAN - AREA B
EB-321C	BUILDING B - POWER PARTIAL ROOF PLAN - AREA C
EB-321D	BUILDING B - POWER PARTIAL ROOF PLAN - CARPORT
E-401	ELECTRICAL ENLARGED PLANS
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-601	ELECTRICAL SINGLE LINE DIAGRAM
E-602	METER RISER DIAGRAM

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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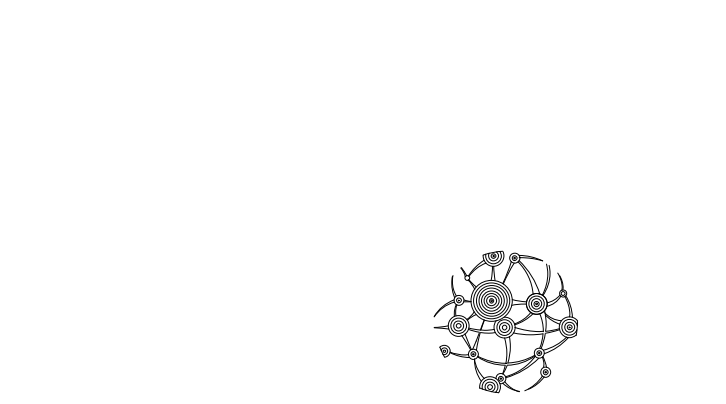
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LIONAKIS

1919 Ninth Street Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

CONSULTANT



INTEGRAL

427 13th Street Oakland, CA 94612 510.663.2070 Telephone E-Mail: info@integralgroup.com www.integralgroup.com

PROJECT PUBLIC SAFETY COMPLEX / ADVANCED MANUFACTURING AND TRANSPORTATION PROJECT

CLIENT LAS POSITAS COLLEGE 3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

CLIENT CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT 7600 DUBLIN BLVD DUBLIN, CA 94568

Facility No: 7000007 Building No: 7007 OSHPD No: TP-2016-000007

Table with columns: ISSUED, MARK, DATE, DESCRIPTION. Row 1: 01/10/2020 50% DESIGN DEVELOPMENT

MANAGEMENT LIONAKIS PROJECT NO: 019051 CONTRACT PROJECT NO: - COPYRIGHT: LIONAKIS 2017

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 161A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM).

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

TITLE ELECTRICAL GENERAL NOTES AND ABBREVIATIONS

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0.14" = 1" IF THESE SHEETS ARE NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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LIGHTING NOTES:

- GENERAL PROVISIONS
1. LIGHTING DESIGNER SHALL MEAN THE PARTY RESPONSIBLE FOR THE DESIGN OF THE LIGHTING SYSTEM.
2. ALL EQUIPMENT SHALL BE FACTORY TESTED TO ENSURE PROPER OPERATION PRIOR TO SHIPMENT TO JOB SITE.
3. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP RELATED TO THE ELECTRICAL INSTALLATION AS REQUIRED IN THE SPECIFICATIONS FROM THE DATE WHICH THE OWNER ACCEPTS THE FINISHED PROJECT. ANY DEFECTS IN MATERIALS OR WORKMANSHIP DURING THIS GUARANTEED PERIOD SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER OR TENANT.

INSTALLATION

- BURN ALL LAMPS THAT REQUIRE SPECIFIC AGING PERIOD TO OPERATE PROPERLY. PRIOR TO OCCUPANCY BY OWNER, BURN IN FLUORESCENT AND COMPACT FLUORESCENT LAMPS INTENDED TO BE DIMMED FOR AT LEAST 100 HOURS AT FULL VOLTAGE.
EXHAUSTION
CONTRACTOR TO SUPPLY A MINIMUM OF TWO ELECTRICIANS FOR EACH LIGHTING DESIGNER DIRECTING FOCUS DURING THE COMMISSIONING PHASE (AKA FOCUS AND PROGRAMMING). BEW ELECTRICIANS TO BE MINIMUM JOURNEYPERMAN LEVEL EXPERIENCE. THEATRICAL ELECTRICIANS TO HAVE A MINIMUM OF 2 YEARS FIELD EXPERIENCE. ELECTRICAL CONTRACTOR MUST SUPPLY ADEQUATE SUPPORT INCLUDING LADDERS, LIFTS OR OTHER EQUIPMENT REQUIRED TO ACCESS LUMINAIRES AT THE TIME FOR FOCUS, INCLUDING EVENING OR NIGHT WORK AS MAY BE REQUIRED DUE TO SCHEDULE CONFLICT OR DAYLIGHT IMPACT. CONTROL SOFTWARE SHOULD BE INSTALLED BY A TRAINED FACTORY REPRESENTATIVE PRIOR TO FINAL FOCUS OF THE LIGHTING SYSTEM. ALL CONTROL SYSTEMS SHOULD BE COMMISSIONED BY AUTHORIZED FACTORY PERSONNEL.

SUBMITTALS

- THE DESIGN IS BASED UPON THE FIRST NAMED PRODUCT IN THE LUMINAIRE SCHEDULE. ANY ADDITIONAL LISTING IS CONSIDERED AN APPROVED ALTERNATE FIXTURE. ANY ALTERNATE FIXTURE MUST PROVIDE PHOTOMETRIC CALCULATIONS FOR KEY AREAS UPON REQUEST INCLUDING BUT NOT LIMITED TO EGRESS CALCULATIONS. CALCULATIONS MUST INCLUDE THE FOLLOWING:
a. VERTICAL AND HORIZONTAL FOOTCANDLES AT WORKPLANE OR FLOOR AS REQUIRED.
b. IN THE CASE OF INDIRECT FIXTURES, THE CEILING MUST ALSO BE CALCULATED WITH UNIFORMITY RATIOS FOR ALL SURFACES.
c. SURFACE REFLECTANCES, LIGHT LOSS FACTORS MUST BE SHOWN ON THE CALCULATION ALONG WITH MOUNTING HEIGHTS OF FIXTURES.
d. FIXTURES MUST BE CLEARLY IDENTIFIED IN THE LUMINAIRE SUMMARY.

GENERAL ELECTRICAL NOTES

- GENERAL PROVISIONS
1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END, CONTRACTOR SHALL FURNISH ALL LABOR AND TOOLS NECESSARY TO FURNISH AND INSTALL ALL APPARATUS, MATERIALS, AND PARTS, PROVIDING THEM IN A MANNER CONSISTENT WITH THE SPECIFICATIONS. INCLUDING ITEMS REQUIRED BUT NOT NECESSARILY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS, AND HARDWARE.
2. ALL CONDUCTORS SHALL BE COPPER, TYPE "THW/THWN" 90 DEGREE INSULATION. ALL LISTS SHALL BE 75 DEGREE MINIMUM. ALL CONDUIT SHALL BE RIGID OR RIGID STEEL. USE OF FLEX IS NOT ALLOWED EXCEPT UP TO 5 FOOT FOR FINAL CONNECTION TO LIGHTING FIXTURES OR VIBRATING EQUIPMENT.
3. BEFORE SUBMITTING THE BID PROPOSAL, CONTRACTOR SHALL VISIT THE JOB SITE TO FULLY FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS, REQUIREMENTS, INCLUDING ALL NECESSARY ADDITIONAL SCOPE OF WORK, WHETHER SHOWN ON DRAWING(S) OR NOT, BUT REQUIRED FOR PROVIDING A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.
4. CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS AND WIRING DIAGRAMS FOR ITEMS AND DEVICES TO BE FURNISHED, INSTALLED AND/OR CONNECTED FOR A COMPLETE AND OPERABLE HEATING, VENTILATION AND AIR CONDITIONING (HVAC) SYSTEM. VERIFY EXACT LOCATION OF HVAC EQUIPMENT AND CONDUIT TERMINATION AT EQUIPMENT WITH MECHANICAL CONTRACTOR.
5. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF OUTLETS AND EQUIPMENT THOUGH NOT NECESSARILY INDICATING THE ACTUAL ROUTES OF CONDUITS. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND SPACE WILL PERMIT. SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE FOR VISUAL AND STRUCTURAL REASONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, BENDS, PULL BOXES AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED AND THE CONTRACTOR SHALL REFER TO THE GENERAL CONSTRUCTION DRAWINGS FOR DIMENSIONS.
6. ALL PERMITS SHALL BE PROCURED FROM ALL LEGALLY CONSTITUTED AUTHORITIES. ARRANGE FOR ALL INSPECTION AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH, COMPLY WITH CODES. PRESENT THE SIGNATURE OF FINAL INSPECTION TO THE OWNER'S REPRESENTATIVE PRIOR TO PRESENTING THE WORK FOR FINAL ACCEPTANCE.
7. CONTRACTOR SHALL ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES ABOUT THE BUILDING.
8. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE FOR CONSTRUCTION POWER AND ILLUMINATION FOR ALL TRADES. ALL COSTS OF LABOR AND COST MATERIAL REQUIRED FOR THE TEMPORARY ELECTRICAL SERVICE SHALL BE INCLUDED IN THE ELECTRICAL CONTRACT.
9. ELECTRICAL ROOMS HAVING A TRANSFORMER(S) RATED 112.5KVA OR ABOVE SHALL BE PROVIDED WITH 1-HOUR FIRE-RATED ENCLOSURE.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS, ACCEPTABLE MATERIALS, COORDINATION REQUIREMENTS, TESTING, STARTUP, TRAINING AND PROJECT CLOSURE.
11. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR, FOR LOCATION OF DISCONNECT SWITCH COORDINATE WITH EQUIPMENT SUPPLIER TO DETERMINE THE BEST LOCATION ON SITE WHILE REMAINING ACCESSIBLE.
12. CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY, GROUNDS, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR CABLES ARE CONNECTED THERETO. CABLES SHALL BE CHECKED FOR CONTINUITY, SHORTS, INSULATION RESISTANCE, AND PROPER PHASING.
13. PROVIDE PULL ROPE IN ALL EMPT CONDUITS.
14. COORDINATE ROUTING OF RACEWAYS FEEDERS AND HOMERUNS IN CONJUNCTION WITH THE WORK OF OTHER TRADES.
15. EXPOSED RACEWAYS ON ROOF SHALL BE AMBIENT TEMPERATURE COMPENSATED PER NEC TABLE 310.103(B) BASED ON DISTANCE RACEWAY IS MOUNTED ABOVE ROOF AND DESIGN TEMPERATURE OF ROOF.
16. NO MORE THAN THREE CIRCUITS PER HOME RUN. DO NOT COMBINE HOMERUNS WITHOUT PRIOR APPROVAL.
17. NO INTERMEDIATE SPLICING OF FEEDERS OR BRANCH CIRCUITS SHALL BE DONE WITHOUT PRIOR APPROVAL.
18. MINIMUM SIZE FOR EXTERIOR BELOW GRADE CONDUIT SHALL BE 1-1/4 INCH.
19. FOR 120V, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUIT.
B. LIGHTING:
1. ALL LIGHTING FIXTURES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
2. CONTRACTOR SHALL VERIFY THE TYPE OF CEILING, COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE FOR PROVIDING ALL FIXTURES, MOUNTING HARDWARE TO FIT CEILING CONDITIONS AT NO EXTRA COST TO THE OWNER.
3. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT DIMENSIONS, CEILING CONFIGURATION, MOUNTING PLACEMENT AND QUANTITIES.
4. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHT OR WALL MOUNTED LIGHTING FIXTURES.
a. LIGHTING IN ELECTRICAL, MECHANICAL, TELECOM AND EQUIPMENT ROOMS ARE SHOWN FOR QUANTITY ONLY. ACTUAL FIXTURE LOCATIONS TO BE DETERMINED AFTER COORDINATING WITH WORK OF ALL OTHER TRADES. FIXTURES TO BE LOCATED SO THAT MAINTENANCE AND LIGHT OUTPUT ARE NOT OBSTRUCTED. FIXTURES ARE TO BE INSTALLED AFTER ALL OTHER WORK IS SUBSTANTIALLY COMPLETE.
C. POWER:
1. PROVIDE CONCRETE PADS (MINIMUM 4" HIGH OR AS INDICATED) FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT INSTALLED IN EQUIPMENT ROOMS AND IN AREAS SUSCEPTIBLE TO BEING WET OR HOSED DOWN. SUBMIT PAD DETAIL PLANS INCLUDING DIMENSIONS FOR APPROVAL.
2. THE LOCATION OF ALL OUTLETS SHALL BE COORDINATED WITH ARCHITECTURAL PLANS BY THE CONTRACTOR PRIOR TO INSTALLATION, MOUNTING HEIGHTS OF RECEPTACLES, SWITCHES, WIRING DEVICES AND DEDICATED EQUIPMENT OUTLETS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
3. ALL DISCONNECT SWITCHES SHALL BE PADLOCKABLE IN THE "OFF" POSITION.
4. ALL FEEDER LENGTH SHOWN ON SINGLE LINE DIAGRAM ARE FOR VOLTAGE DROP CALCULATION ONLY. DO NOT USE FOR ANY OTHER PURPOSES.
5. VERIFY AND COORDINATE EXACT LOCATION, POWER REQUIREMENTS AND METHOD OF CONNECTION OF ALL MECHANICAL EQUIPMENT AND PERTINENT ITEMS AND DEVICES PRIOR TO INSTALLATION OF ELECTRICAL SYSTEM.
6. PROVIDE A MINIMUM OF 12" SEPARATION BETWEEN POWER AND COMMUNICATION CONDUITS, WHERE THEY ARE INSTALLED IN PARALLEL OR IN THE SAME TRENCH.
7. LABEL ALL RECEPTACLES, J-BOXES, DISCONNECT SWITCHES AND CONTROL DEVICES WITH THEIR SERVING CIRCUIT NUMBERS. LABELS SHALL BE PER THE SPECIFICATION.
8. PROVIDE A MINIMUM 24" HORIZONTAL SEPARATION THAT USUALLY APPLIES BETWEEN BOXES INSTALLED ON OPPOSITE SIDES OF THE WALL IN ORDER TO MAINTAIN THE FIRE-RESISTIVE RATING OF ASSEMBLIES WHERE PENETRATION OR OPENINGS ARE MADE.
D. GROUNDING:
1. THE EQUIPMENT GROUNDING CONDUCTOR SHALL RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PITTAILED TO BOX AND DEVICE. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS.
2. GROUNDING OF CABLE TRAY SHALL BE PER NEC 302.7.
3. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING AND POWER CONDUITS.

GENERAL ELECTRICAL NOTES

- GENERAL PROVISIONS
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INTERIOR LUMINAIRE SCHEDULE

FIXTURE TAG KEY: G = GROUND MOUNT; L = LINEAR FIXTURES THAT HAVE VARIABLE LENGTH ON THE PROJECT; P = PENDANT MOUNTED; R = RECESSED; S = SURFACE MOUNTED;
T = TRACK OR TRACK HEAD; W = WALL MOUNTED; X = EXIT SIGNS; Y = POLE MOUNTED; Z = EXTERIOR - TO PRECEDE OTHER FIXTURE TAGS - E.G. ZW1 WOULD BE AN EXTERIOR WALL MOUNTED FIXTURE

ALL FIXTURES BELOW ARE PROVIDED AS A BASIS OF DESIGN ONLY.

FIXTURE TAG	IMAGE	INPUT WATTS	VOLTS	DESCRIPTION	MANUFACTURER	LIGHT SOURCE	COLOR TEMP	CRI	OUTPUT	EFFICACY (LPW)	LED DRIVER OR BALLAST	LOCATION(S)	FINISH	REMARKS
P1				LED DIRECT/INDIRECT LINEAR PENDANT	ZUMTOBEL SLOTLIGHT LED3							CLASSROOMS, LABORATORIES		
P2				LED DECORATIVE PENDANT	DELRAY LUMA LED METAL							ENTRANCE LOBBY		
P3				LED LOW BAY/HIGH BAY TROFFER EXTERIOR RATED.	KENALL ENVIROPRO							MANUFACTURING LABS, COVERED OUTDOOR YARDS		
R1A				4" RECESSED DOWNLIGHT WITH WIDE BEAM SPREAD IN A GYP/TILE CEILING.	ZUMTOBEL BASYS							GENERAL		
R1B				SAME AS R1A BUT IN A WOOD CEILING.	ZUMTOBEL BASYS							STUDY A122		
R1C				SAME AS R1A BUT WITH A NARROWER BEAM SPREAD.	ZUMTOBEL BASYS							CORRIDOR SOFFIT		
R2A				4" RECESSED WALL WASH IN A GYP/TILE CEILING.	ZUMTOBEL BASYS							GENERAL		
R2B				SAME AS R2A BUT IN A WOOD CEILING.	ZUMTOBEL BASYS							STUDY A122		
R3				RECESSED LED 2X2 TROFFER	PHILIPS LEDALITE VECTRA							CORRIDOR		
R4				RECESSED LED 2X4 TROFFER	PHILIPS LEDALITE VECTRA							OFFICE, CONFERENCE, SIMULATION ROOMS		
R5				RECESSED LED PERIMETER FIXTURE WITH ASYMMETRIC DISTRIBUTION	ZUMTOBEL SLOTLIGHT LED3							RESTROOMS		
R6				RECESSED LED PERIMETER FIXTURE WITH DIRECT DISTRIBUTION	ZUMTOBEL SLOTLIGHT LED3							CORRIDOR		
S1				4'-0" LED UTILITY FIXTURE	EATON SNLED							BACK OF HOUSE AREAS		
S2				4'-0" LED LINEAR SURFACE MOUNTED FIXTURE	ZUMTOBEL ICOS SURFACE							LOCKER ROOM		
S3				SURFACE MOUNTED LOW BAY FIXTURE	EATON TBLLED							GYMNASIUM		
S4		6 WFT	120	1" x 3.62" PROFILE LINEAR SURFACE MOUNTED UNDERCABINET LIGHT WITH 120 DEGREE BEAM ANGLE	PRIMA NOVO TASK II #107-8X-01-LENGTH-FINISH-359	LED	3500K	90	167 DELIV. LUMFT	28	INTEGRAL DIMMING WITH MOST INCANDESCENT DIMMERS	UNDERCABINETS	STANDARD UNLESS SPECIFIED BY ARCHITECT.	COORDINATE LENGTHS OF UNDERCABINET LIGHT WITH MILLWORK CONFIGURATION.
TA				LED TRACK HEAD								ENTRANCE LOBBY, CORRIDOR		
T1				RECESSED TRACK								CORRIDOR		
T2				PENDANT TRACK								ENTRANCE LOBBY		
W1		6 WFT	120	1.14" SQUARE PROFILE ARM MOUNTED TO 3" LONG ARM. LINEAR LIGHT WITH 170 DEGREE ROTATION AND ANGLE LOCK AND 40 DEGREE SYMMETRIC BEAM SPREAD AND REMOTE POWER SUPPLY	VOCLE LIGHTING BOX RAIL 107 #107-8X-01-LENGTH-HWA-3-4R-AE-1-0-Z-SO-359-S1-0-FINISH	LED	3500K	90	279 DELIV. LUMFT	47	REMOTE 0-10V 1% DIMMING DRIVER	WHITEBOARDS	FINISH BY ARCHITECT.	REFER TO PLANS FOR LENGTHS.

1. PROVIDE 10% ATTIC STOCK OF ALL LED BOARDS, DRIVERS AND LENSES, AND NO LESS THAN (1) PER FIXTURE TYPE.

EXTERIOR LUMINAIRE SCHEDULE

FIXTURE TAG KEY: G = GROUND MOUNT; L = LINEAR FIXTURES THAT HAVE VARIABLE LENGTH ON THE PROJECT; P = PENDANT MOUNTED; R = RECESSED; S = SURFACE MOUNTED;
T = TRACK OR TRACK HEAD; W = WALL MOUNTED; X = EXIT SIGNS; Y = POLE MOUNTED; Z = EXTERIOR - TO PRECEDE OTHER FIXTURE TAGS - E.G. ZW1 WOULD BE AN EXTERIOR WALL MOUNTED FIXTURE

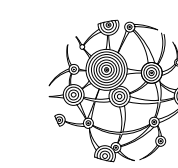
ALL FIXTURES BELOW ARE PROVIDED AS A BASIS OF DESIGN ONLY.

FIXTURE TAG	IMAGE	INPUT WATTS	VOLTS	DESCRIPTION	MANUFACTURER	LIGHT SOURCE/B...	COLOR TEMP	CRI	OUTPUT	EFFICACY (LPW)	LED DRIVER OR BALLAST	LOCATION	FINISH	REMARKS
ZG1				LED FLOODLIGHT	BK LIGHTING DENALI SERIES							LANDSCAPE		
ZR1				RECESSED LED DOWNLIGHT, EXTERIOR RATED.	BEGA 24 817							MAIN ENTRANCE		
ZS1				LED BOLLARD	BEGA 99570							PATHWAYS		
ZW1				WALL MOUNTED HIGH PERFORMANCE LED SCOSCE	PHILIPS LED GARDOCO SCOSCE							EXTERIOR PROMENADE		
ZW2				WALL MOUNTED SCOSCE	PHILIPS LED GARDOCO MINI SCOSCE							ENTRANCES		
ZY1				LED PEDESTRIAN POLE	EATON INVUE									

1. ALL FIXTURE FINISHES TO MATCH RAL 7016 ANTHRACITE DARK GRAY UNLESS NOTED.
2. PROVIDE 10% ATTIC STOCK OF ALL LED BOARDS, DRIVERS AND LENSES, AND NO LESS THAN (1) PER FIXTURE TYPE.

MEP COMPONENT ANCHORAGE NOTE

- ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AN DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTION 1616A-1.18 THROUGH 1616A-1.28 AND ASCE 7-10 CHAPTER 13, 28 AND 30.
- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
 - COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
 - COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM THE ROOF OR FLOOR OR HUNG FROM A WALL.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OR RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.



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LIGHTING CONTROL SEQUENCE OF OPERATIONS

INTERIOR: ALL INTERIOR LIGHTING CONTROLLED VIA WATTSTOPPER DLM SYSTEM.

SPACE/FUNCTION	LOCALIZED NETWORK MANUAL CONTROL OVERRIDE SWITCH	AUTO-ON & AUTO OFF OCCUPANCY SENSING WITH TIME DELAY:	DAYLIGHT HARVESTING (FC SET POINT)	ASTRONOMICAL TIME CLOCK	DEMAND RESPONSE LIGHTING POWER REDUCTION
CORRIDORS/ENTRY/VESTIBULE	ON/OFF, DIMMING	5 MIN.		N/A	ADJUST DOWN 20%
ID/MDF ROOM	ON/OFF, DIMMING	N/A		SET TO REGULAR HOURS	ADJUST DOWN 20%
ELECTRICAL/MECHANICAL ROOMS	ON/OFF, DIMMING	N/A			
STUDY/WORK AREAS	ON/OFF, DIMMING	20 MIN.		N/A	ADJUST DOWN 20%
KITCHENETTE	ON/OFF, DIMMING	5 MIN.		N/A	ADJUST DOWN 20%
CUSTODIAN CLOSET	ON/OFF, DIMMING	5 MIN.		N/A	ADJUST DOWN 20%
RESTROOMS	ON/OFF, DIMMING	5 MIN.		N/A	ADJUST DOWN 20%
STORAGE ROOMS	ON/OFF, DIMMING	5 MIN.		N/A	ADJUST DOWN 20%
LOCKER ROOM	ON/OFF, DIMMING	10 MIN.		N/A	ADJUST DOWN 20%
MAT ROOM	ON/OFF, DIMMING	10 MIN.		N/A	ADJUST DOWN 20%
CLASSROOMS	ON/OFF, DIMMING	20 MIN.		N/A	ADJUST DOWN 20%
VR LABS/SIMULATION ROOMS	ON/OFF, DIMMING	20 MIN.		N/A	ADJUST DOWN 20%
COMPUTER LABS	ON/OFF, DIMMING	20 MIN.		N/A	ADJUST DOWN 20%
AMT CLASSROOMS	ON/OFF, DIMMING	20 MIN.		N/A	ADJUST DOWN 20%
AUTO TECHSMOG BAY	ON/OFF, DIMMING	20 MIN.		N/A	ADJUST DOWN 20%
WELDING/MANUFACTURING LAB	ON/OFF, DIMMING	20 MIN.		N/A	ADJUST DOWN 20%
OFFICES	ON/OFF, DIMMING	10 MIN.		N/A	ADJUST DOWN 20%
CONFERENCE ROOMS	ON/OFF, DIMMING W/ 2HR OFF OVERRIDE	20 MIN.		N/A	ADJUST DOWN 20%

EXTERIOR: ALL EXTERIOR BUILDING AND SITE LIGHTING CONTROLLED VIA WATTSTOPPER DLM SYSTEM.

SPACE/FUNCTION	LCP MANUAL CONTROL OVERRIDE SWITCH	AUTO-ON & AUTO OFF OCCUPANCY SENSING WITH TIME DELAY:	DAYLIGHT HARVESTING (FC SET POINT)	ASTRONOMICAL TIME CLOCK	DEMAND RESPONSE LIGHTING POWER REDUCTION
PARKING LOT LIGHTING	ON/OFF (DIMMING CAPABLE)	OCCUPANCY OVERRIDE AT 10PM UNTIL 30 MIN AFTER SUNRISE	N/A	SCHEDULED ON AT 30MIN BEFORE SUNSET, OVERRIDEN BY OCCUPANCY SENSOR AT 10PM	N/A
BOLLARD PATHWAY LIGHTING	ON/OFF (DIMMING CAPABLE)	N/A	N/A	SCHEDULED ON AT 30MIN BEFORE SUNSET, DIM DOWN 50% AT 10PM, SCHEDULED OFF 30MIN AFTER SUNRISE	N/A
EXTERIOR BUILDING MOUNTED LIGHTING	ON/OFF (DIMMING CAPABLE)	N/A	N/A	SCHEDULED ON AT 30MIN BEFORE SUNSET, SCHEDULED OFF 30MIN AFTER SUNRISE	N/A
EXTERIOR PATHWAY LIGHTING	ON/OFF (DIMMING CAPABLE)	N/A	N/A	SCHEDULED ON AT 30MIN BEFORE SUNSET, DIM DOWN 50% AT 10PM, SCHEDULED OFF 30MIN AFTER SUNRISE	N/A
LANDSCAPE LIGHTING	ON/OFF (DIMMING CAPABLE)	N/A	N/A	SCHEDULED ON AT 30MIN BEFORE SUNSET, SCHEDULED OFF 30MIN AFTER SUNRISE	N/A
OUTDOOR CARPORT	ON/OFF (DIMMING CAPABLE)	N/A	N/A	SCHEDULED ON AT 30MIN BEFORE SUNSET, SCHEDULED OFF 30MIN AFTER SUNRISE	N/A
OUTDOOR WELDING YARD	ON/OFF (DIMMING CAPABLE)	N/A	N/A	SCHEDULED ON AT 30MIN BEFORE SUNSET, SCHEDULED OFF 30MIN AFTER SUNRISE	N/A
SIGN LIGHTING	ON/OFF (DIMMING CAPABLE)	N/A	N/A	SCHEDULED ON AT 30MIN BEFORE SUNSET, SCHEDULED OFF 30MIN AFTER SUNRISE	N/A

GENERAL NOTES:
 1. THE INTENT OF THIS SCHEDULE IS TO CLARIFY THE PROGRAMMING AND FUNCTION OF CONTROLS THAT MAY BE LOCATED IN EACH SPACE TYPE.
 2. THIS SCHEDULE IS NOT INTENDED TO DEFINE WHICH CONTROLS ARE TO BE INSTALLED IN EACH SPACE TYPE.
 3. FOR CONTROL DEVICES TO BE INSTALLED IN EACH SPACE, REFER TO PLANS.
 4. ALL SETPOINTS AND TIME SCHEDULES TO BE VERIFIED WITH OWNER PRIOR TO PROGRAMMING.
 5. BUILDING LIGHTING CONTROL SYSTEM TO BE DEMAND RESPONSE CAPABLE AND ABLE TO REDUCE TOTAL LIGHTING POWER BY AT LEAST 15%.
 6. PHOTOCELL CONTROLLED LIGHT FIXTURES TO BE REDUCED TO 65% OF LIGHTING OUTPUT (MINIMUM) WHEN THE LIGHTING ILLUMINANCE RECEIVED FROM THE DAYLIGHT IS GREATER THAN 150% OF THE ILLUMINANCE OF THE GENERAL LIGHTING. LIGHT...
 7. LIGHTING CONTROL SYSTEM SHALL INTERCONNECT TO BMS. REFER TO MECHANICAL DRAWINGS FOR WIRING CONNECTION REQUIREMENTS.
 8. N/A = NOT APPLICABLE WITH CONTROL DESIGN.
 9. ALL MANUAL OVERRIDE SWITCHES SHALL BE ON NETWORK.
 10. INDOOR LIGHTS WILL BE CONTROLLED BY WATTSTOPPER DLM, WHILE OUTDOOR LIGHTS WILL BE CONTROLLED BY LCP. REFER TO THE RELAY SCHEDULE ON SHEET E0.04. FOR ADDITIONAL OUTDOOR LIGHTING CONTROL INFORMATION.

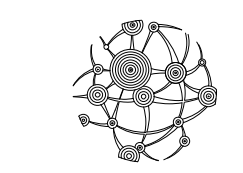
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 Oakland, CA 94612
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 LIVERMORE, CA 94551

CLIENT
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 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

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**SEQUENCE OF
 OPERATIONS**

SHEET

E-004

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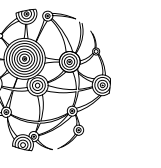
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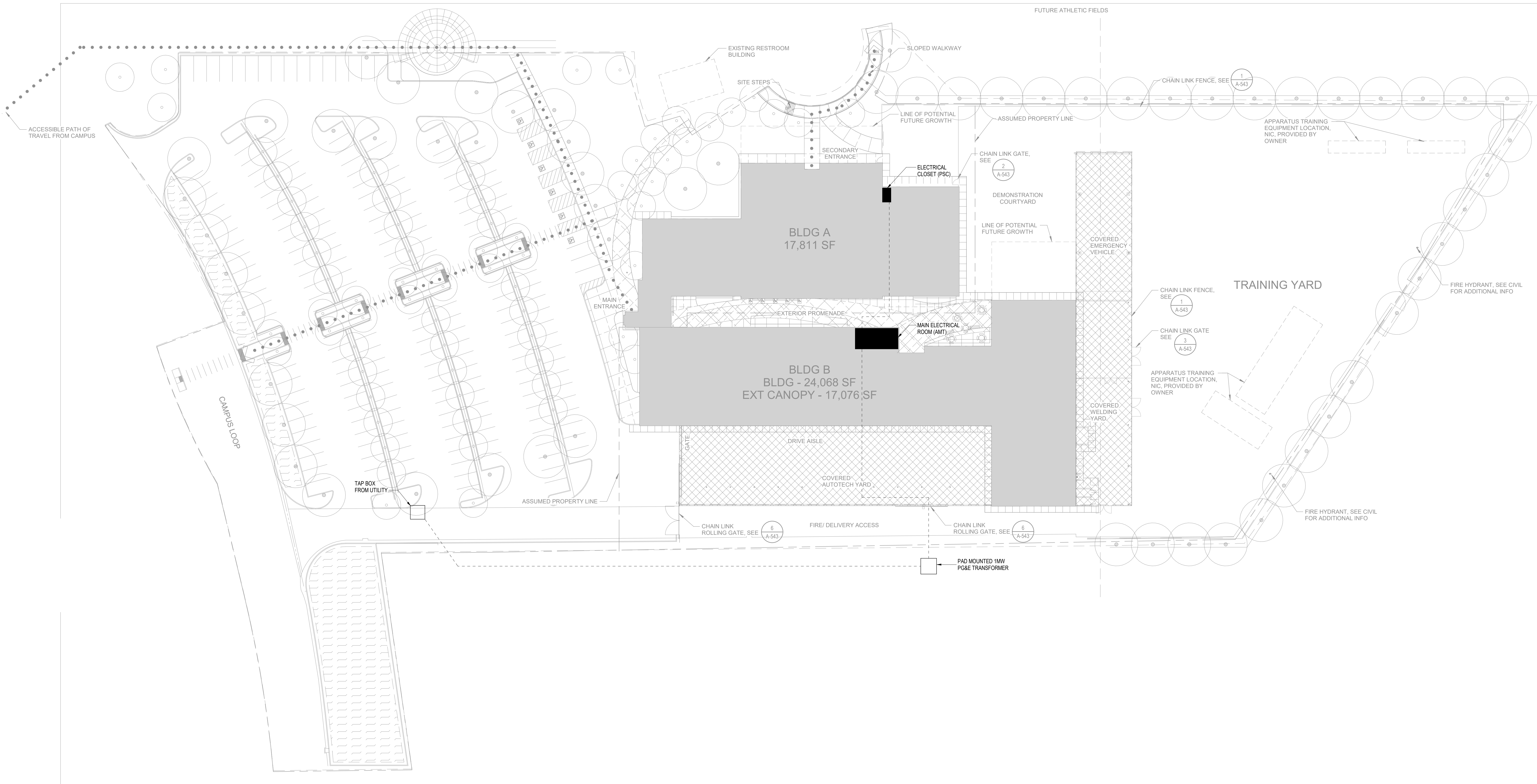
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TITLE
SITE ELECTRICAL PLAN

SHEET
E-101



1 SITE ELECTRICAL PLAN
1" = 30'-0"

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

GENERAL NOTES

- A. **CAUTION:** EXISTING UNDERGROUND UTILITIES AND STRUCTURES ARE KNOWN TO EXIST ON THE PROJECT SITE. CONTRACTOR TO MAKE USE OF ALL CONSTRUCTION DOCUMENTS TO ASSIST IN LOCATING THE UNDERGROUND UTILITIES AND STRUCTURES. NO REPRESENTATION AS TO ACCURACY OR COMPLETENESS OF THE LOCATION OF THE UNDERGROUND UTILITIES OR STRUCTURES EXISTS.
- B. CONTRACTOR TO EXERCISE PRECAUTIONARY MEANS INCLUDING HAND DIGGING OR VACUUM EXCAVATION TO PROTECT THE EXISTING UTILITIES AND STRUCTURES. WHERE EXACT LOCATIONS OF UTILITIES AND STRUCTURES CAN NOT BE DETERMINED HAND OR VACUUM EXCAVATION WILL BE REQUIRED.
- C. INSTALLATION OF PG&E SERVICE CONDUITS, GROUNDINGS, ETC SHALL BE VERIFIED AND COORDINATED WITH PG&E PRIOR TO INSTALLATION. ALL WORK SHALL CONFORM WITH PG&E RULES, REGULATIONS, AND STANDARDS. THE PROPOSED PG&E SERVICE FEEDER ROUTING AND SIZE ARE SUBJECT TO PG&E ENGINEERING REVIEW, AND APPROVAL AT THE TIME OF ISSUANCE OF THESE DOCUMENTS. PG&E ENGINEERING HAS NOT BEEN COMPLETED. CONTRACTOR SHALL COORDINATE AND VERIFY REQUIREMENTS FOR THE PROJECT WITH PG&E PRIOR TO COMMENCEMENT OF WORK.
- D. MINIMUM CONDUCTOR SIZE FOR SITE LIGHTING AND SITE RECEPTACLES SHALL BE #10 INCLUDING NEUTRAL CONDUCTOR.
- E. PULL BOXES FOR STRAIGHT PULL ONLY. PROVIDE ADDITIONAL 1-1/4" C. SPARE FOR EACH PULL BOX.
- F. PROVISIONS SHALL BE MADE TO DISCONNECT EXISTING SERVICE EQUIPMENT AND RECONNECT NEW SERVICE EQUIPMENT WITH MINIMAL POWER DISRUPTION.
- G. PROVIDE SEPARATE PULL BOXES FOR POWER AND COMMUNICATIONS CONDUIT. LABEL IN GRADE POWER PULL BOXES AS "ELECTRICAL." LABEL IN GRADE COMMUNICATIONS PULL BOXES AS "SIGNAL."
- H. INSTALLATION OF TELEPHONE SERVICE CONDUITS, ETC. SHALL BE VERIFIED AND COORDINATED WITH TELEPHONE PROVIDER PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE AND VERIFY REQUIREMENTS FOR THE PROJECT WITH TELEPHONE PROVIDER PRIOR TO COMMENCEMENT OF WORK.
- I. POWER FOR BLUE PHONES, SECURITY CAMERAS AND WIRELESS ACCESS POINTS TO BE COORDINATED IN DD.

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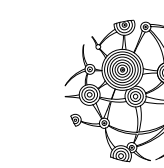
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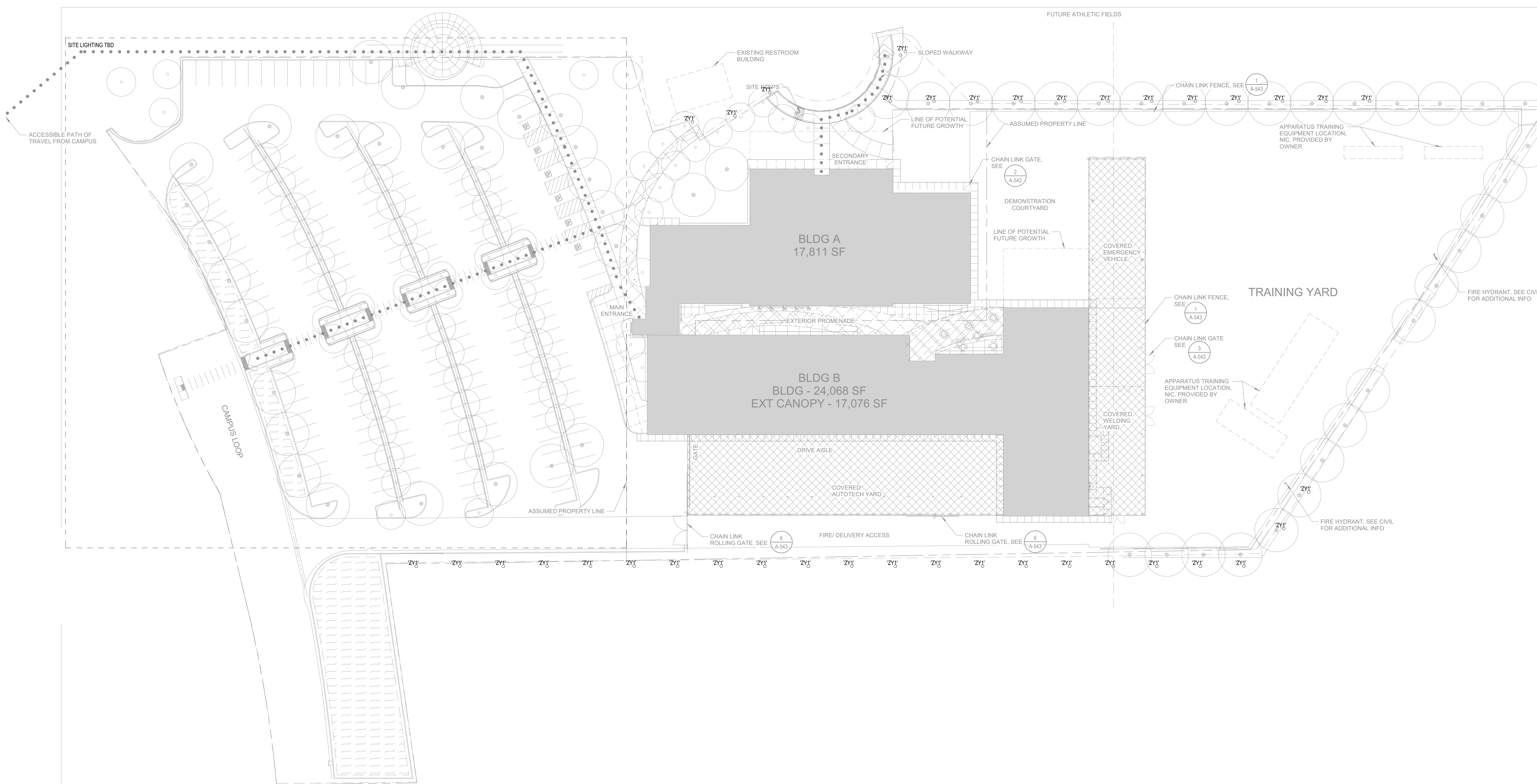
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TITLE
SITE LIGHTING PLAN

SHEET
E-102



1 SITE LIGHTING PLAN
 1" = 30'-0"

SHEET NOTES

- ALL EXTERIOR BUILDING MOUNTED FIXTURES SHOWN ON BUILDING PLANS.
- BBB
- CCC

GENERAL NOTES

- AAA
- BBB
- CCC

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0 1/4" = 1'-0"

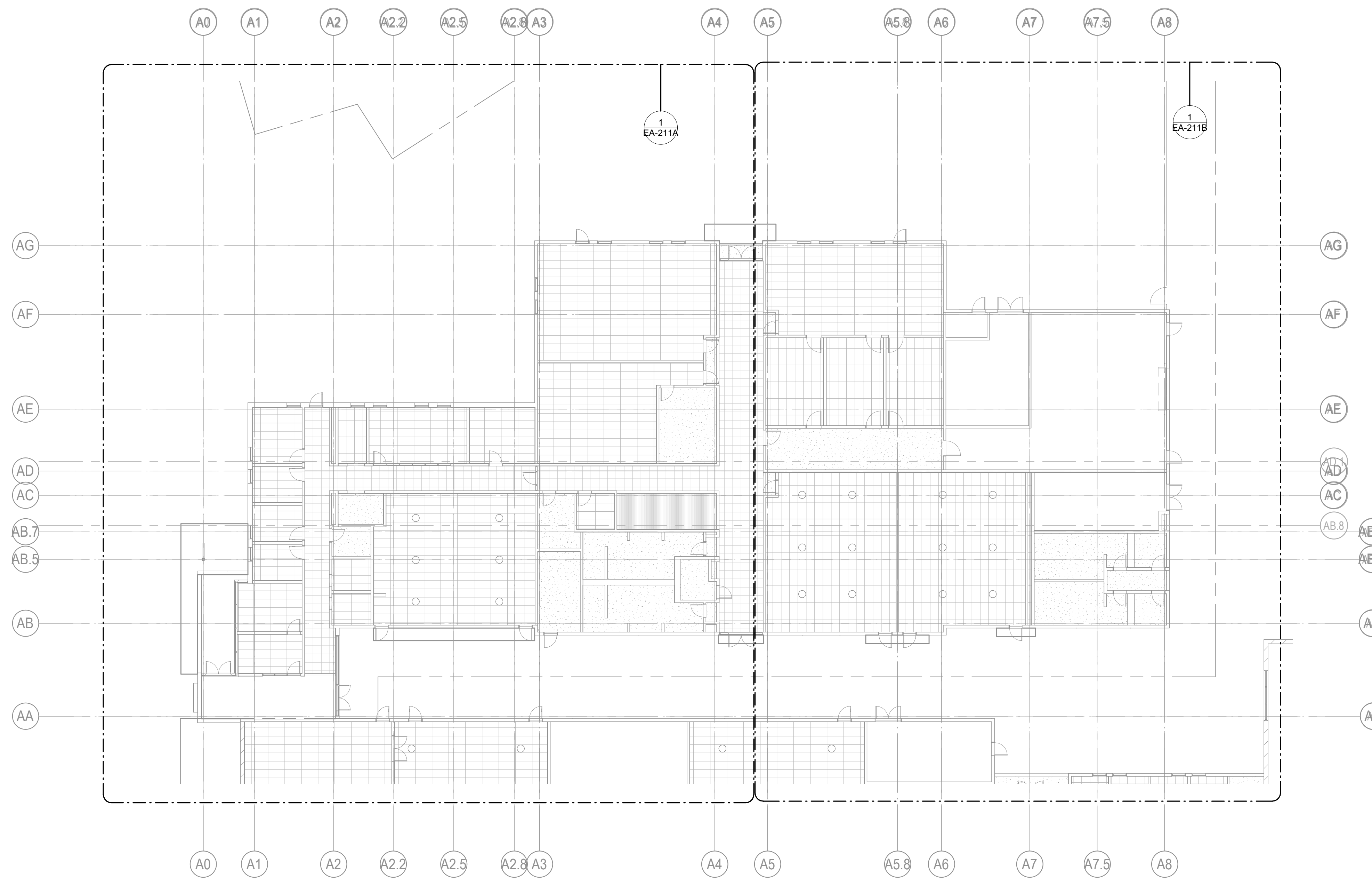
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1 BUILDING A - LIGHTING OVERALL FLOOR PLAN
1/16" = 1'-0"

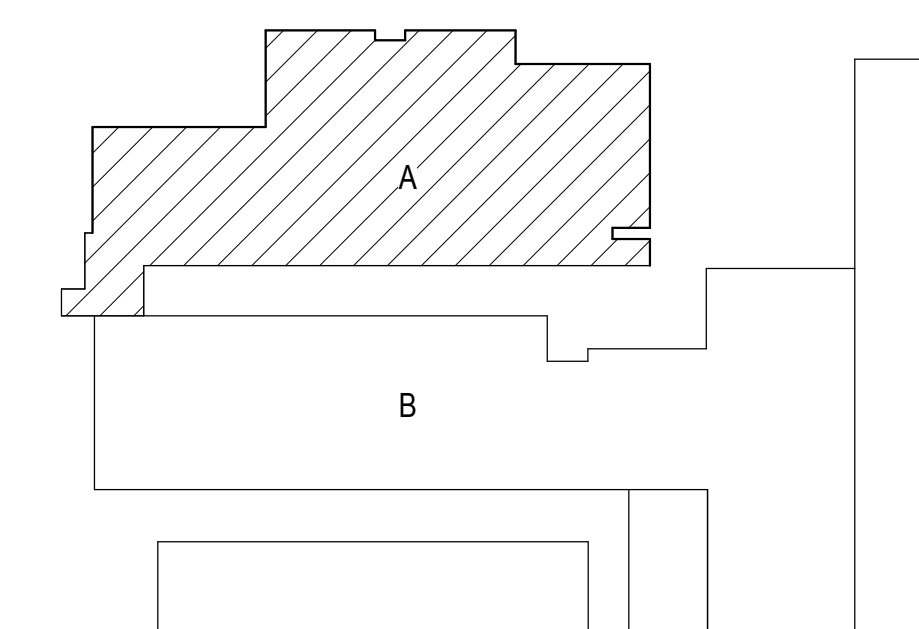
GENERAL NOTES

- A. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR TYPES AND MATERIALS. COORDINATE LIGHTING FIXTURE CEILING ROUGH-IN, TRIMS AND SUPPORT WITH LIGHTING SUPPLIER PRIOR TO RELEASE OF LIGHTING FIXTURES.
- B. FIELD MEASURE ALL LIGHTING COVES TO DETERMINE EXACT LENGTHS. LIGHTING FIXTURES SHALL PROVIDE UNIFORM LIGHTING FROM END TO END OF COVE. MAXIMUM 6" SPACE IS ALLOWED AT EACH END OF COVE FOR CONTINUOUS INSTALLATIONS.
- C. OCCUPANCY SENSOR IN OFFICES SHOULD BE "MANUAL ON / AUTO OFF".

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



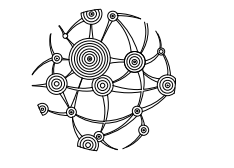
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TITLE
**BUILDING A - LIGHTING
OVERALL FLOOR PLAN**

SHEET
EA-211

0 1/4" = 1'-0"

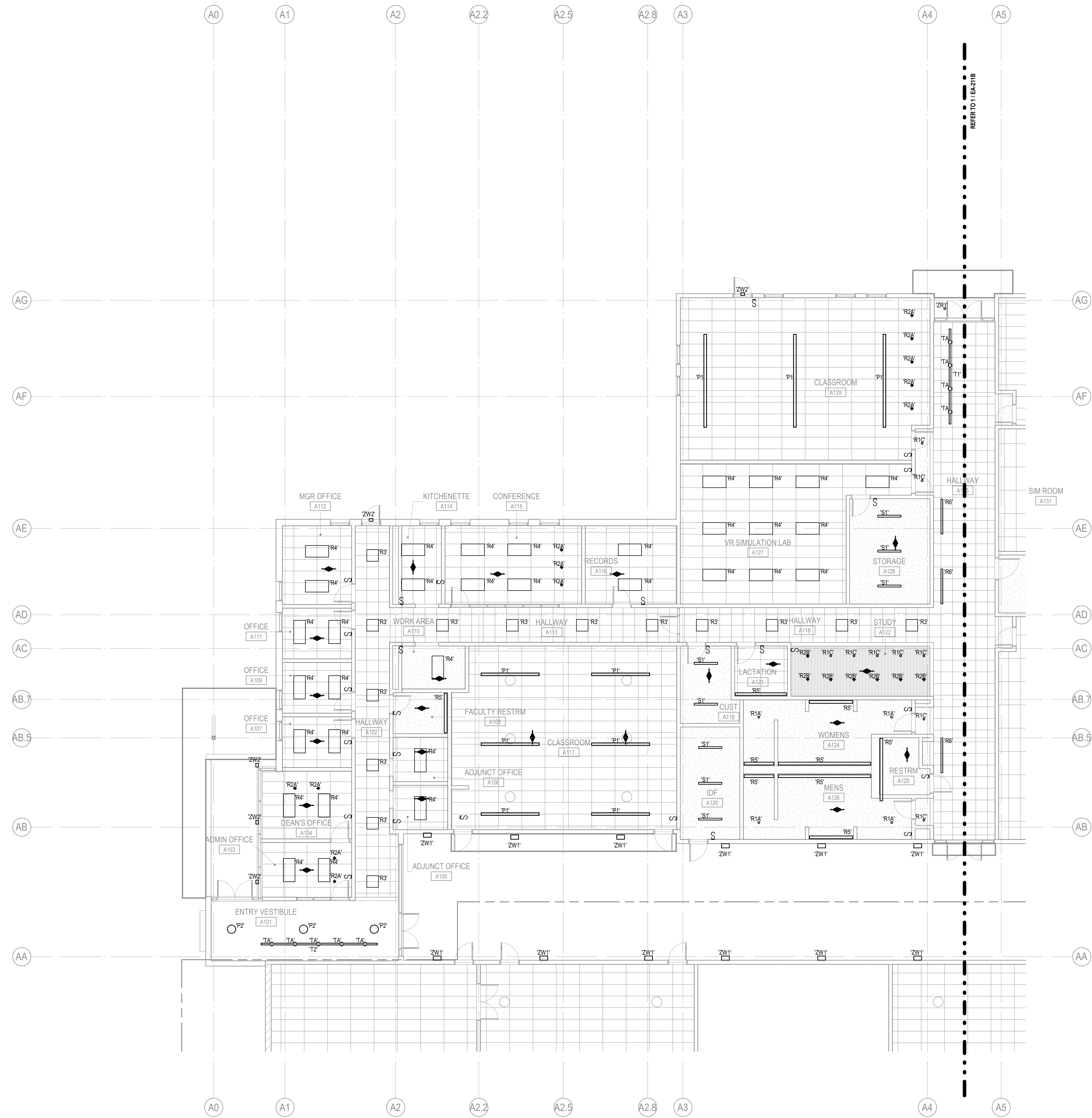
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1 BUILDING A - LIGHTING PARTIAL FLOOR PLAN - AREA A
1/8" = 1'-0"

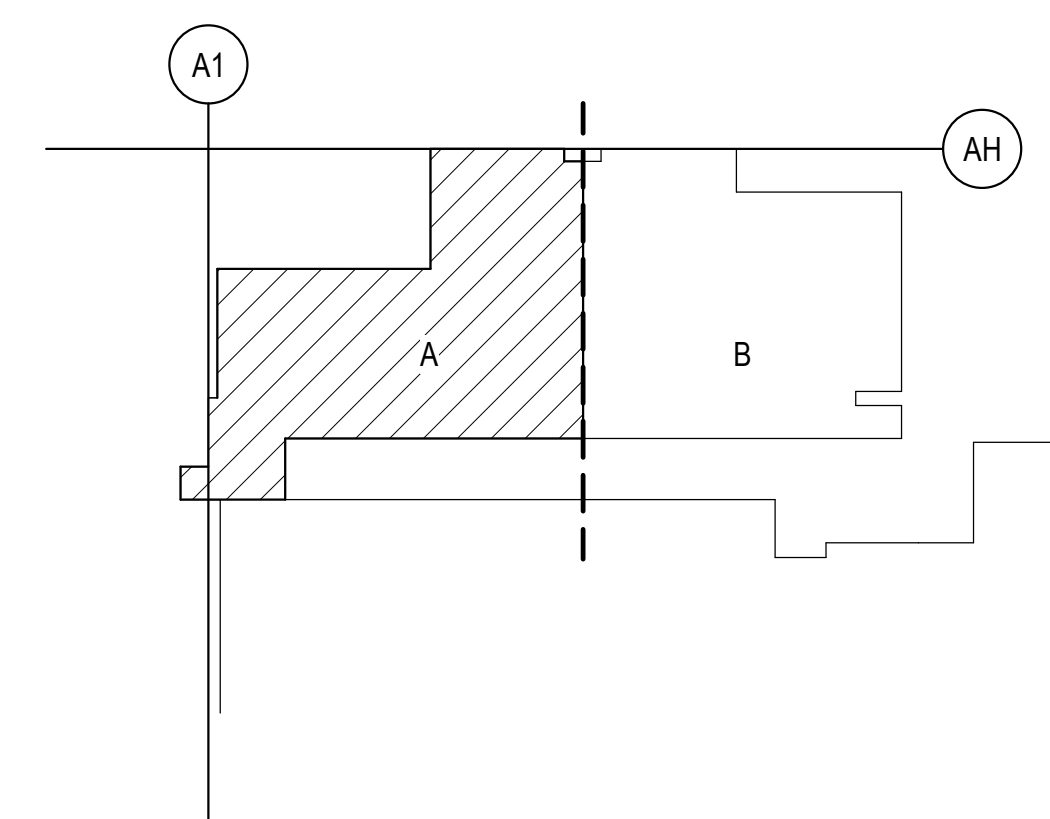
GENERAL NOTES

- A. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR TYPES AND MATERIALS. COORDINATE LIGHTING FIXTURE CEILING ROUGH-IN, TRIMS AND SUPPORT WITH LIGHTING SUPPLIER PRIOR TO RELEASE OF LIGHTING FIXTURES.
- B. FIELD MEASURE ALL LIGHTING COVES TO DETERMINE EXACT LENGTHS. LIGHTING FIXTURES SHALL PROVIDE UNIFORM LIGHTING FROM END TO END OF COVE. MAXIMUM 6" SPACE IS ALLOWED AT EACH END OF COVE FOR CONTINUOUS INSTALLATIONS.
- C. OCCUPANCY SENSOR IN OFFICES SHOULD BE "MANUAL ON / AUTO OFF".

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



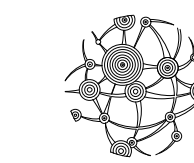
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TITLE
**BUILDING A - LIGHTING
PARTIAL FLOOR PLAN -
AREA A**

SHEET

EA-211A

0 1/4" = 1' - 0"

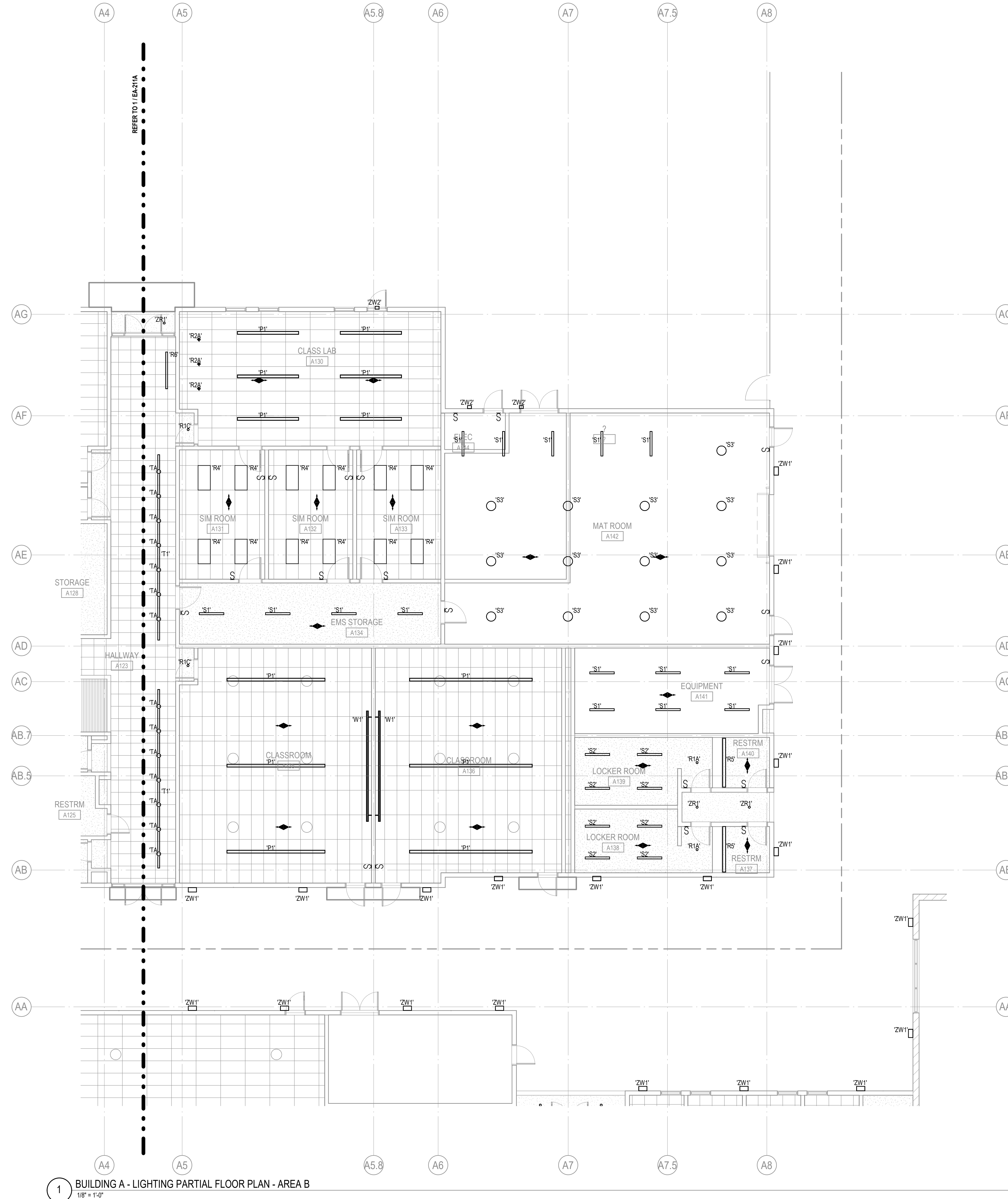
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1 BUILDING A - LIGHTING PARTIAL FLOOR PLAN - AREA B
1/8" = 1'-0"

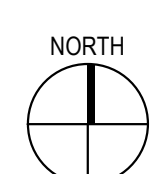
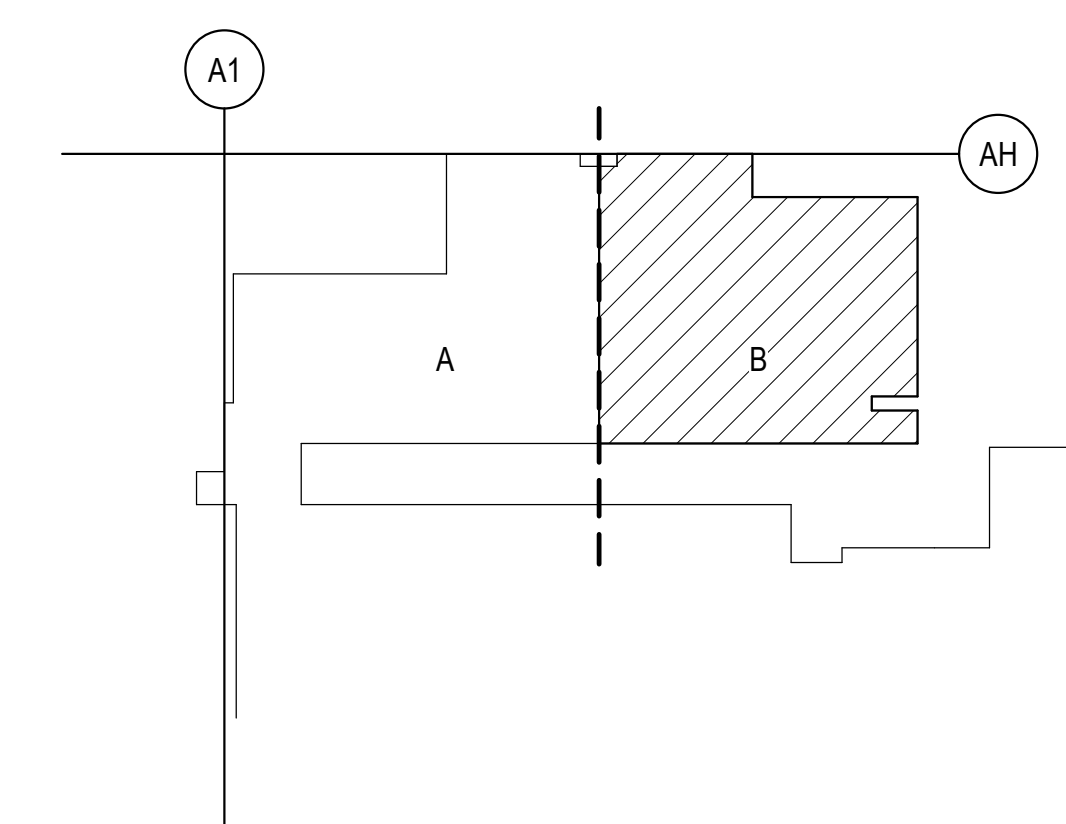
GENERAL NOTES

- A. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR TYPES AND MATERIALS. COORDINATE LIGHTING FIXTURE CEILING ROUGH-IN, TRIMS AND SUPPORT WITH LIGHTING SUPPLIER PRIOR TO RELEASE OF LIGHTING FIXTURES.
- B. FIELD MEASURE ALL LIGHTING COVES TO DETERMINE EXACT LENGTHS. LIGHTING FIXTURES SHALL PROVIDE UNIFORM LIGHTING FROM END TO END OF COVE. MAXIMUM 6" SPACE IS ALLOWED AT EACH END OF COVE FOR CONTINUOUS INSTALLATIONS.
- C. OCCUPANCY SENSOR IN OFFICES SHOULD BE "MANUAL ON / AUTO OFF".

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



FILE NO. ?XX-XXXX?

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?XX-XXX?

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P 916.558.1900 F 916.558.1919
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427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
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PROJECT
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ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?00000?7
Building No: ?00?7
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING A - LIGHTING
PARTIAL FLOOR PLAN -
AREA B**

SHEET
EA-211B

0 1/4" = 1'

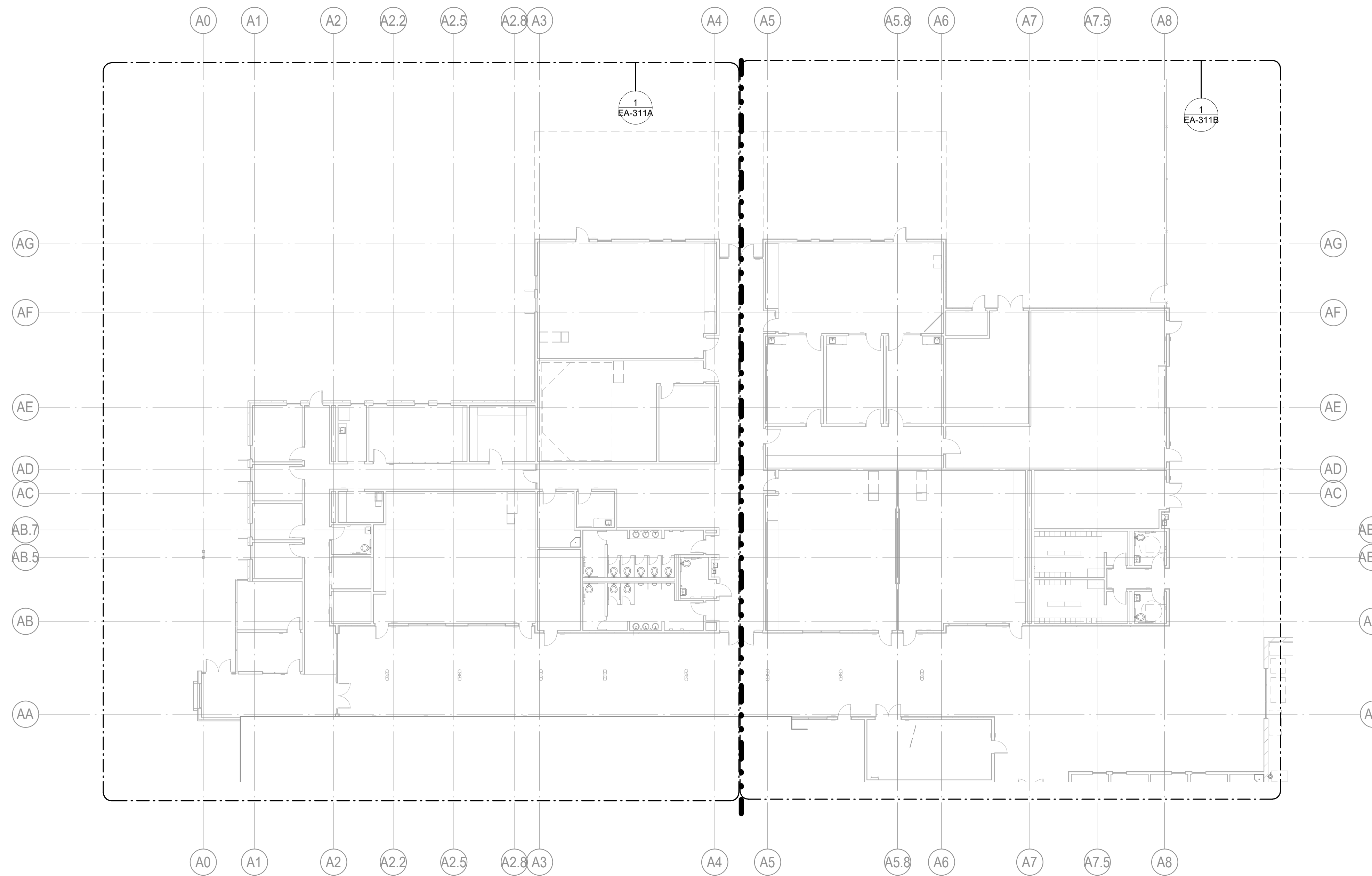
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1 BUILDING A - POWER OVERALL FLOOR PLAN
1/16" = 1'-0"

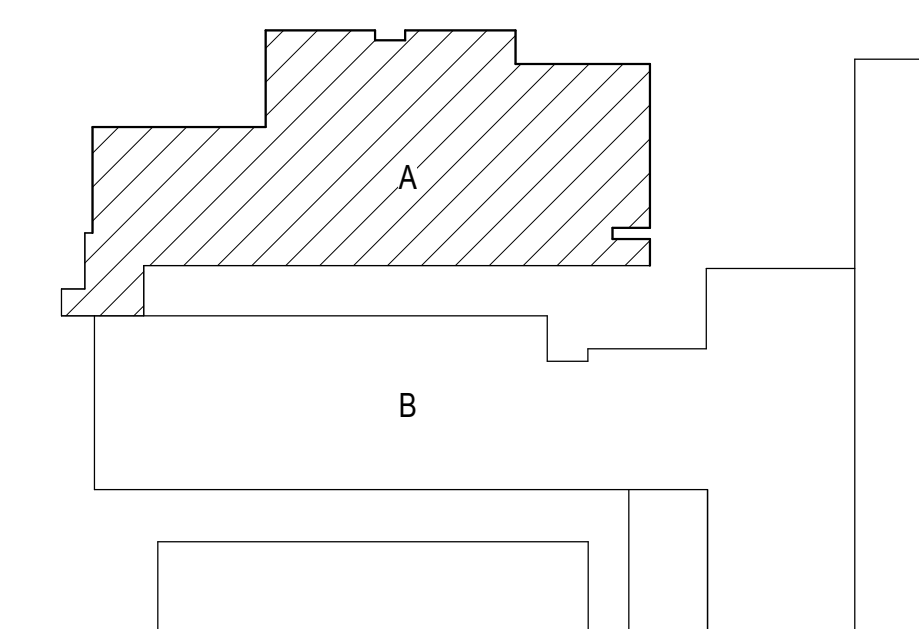
GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.
- B. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECT'S PAINTING SECTION FOR REQUIREMENTS.
- C. STUB A MINIMUM OF 4 SPARE 3/4" CONDUITS FROM ALL NEW RECESSED PANELBOARDS TO ACCESSIBLE CEILING LOCATION.
- D. SEE EQUIPMENT SCHEDULE, SINGLE LINE DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTIONS.
- E. PROVIDE POWER 120V/24V TRANSFORMER AS REQUIRED TO POWER VAV/RY-PASS DAMPERS, RESTROOM PLUMBING CONTROLS, DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS AND FIRE SMOKE DAMPERS FOR MECHANICAL EQUIPMENT. SEE DIAGRAMS ON MECHANICAL AND PLUMBING DRAWINGS FOR CONNECTION TO MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE CIRCUIT FORM NEAREST AVAILABLE PANEL, UNLESS OTHERWISE NOTED.
- F. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- G. REFER TO DATATELECOM, AUDIO-VISUAL AND SECURITY PLANS FOR ALL ITEMS, LOCATIONS, DEVICES AND EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO ALL CONDUITS AND JUNCTION BOXES.

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



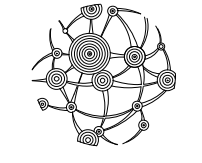
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DUBLIN, CA 94568

Facility No: ?000000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING A - POWER
OVERALL FLOOR PLAN**

SHEET
EA-311

0 1/4" = 1'-0"

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1 BUILDING A - POWER PARTIAL FLOOR PLAN - AREA A
1/8" = 1'-0"

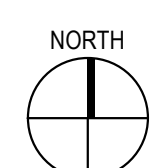
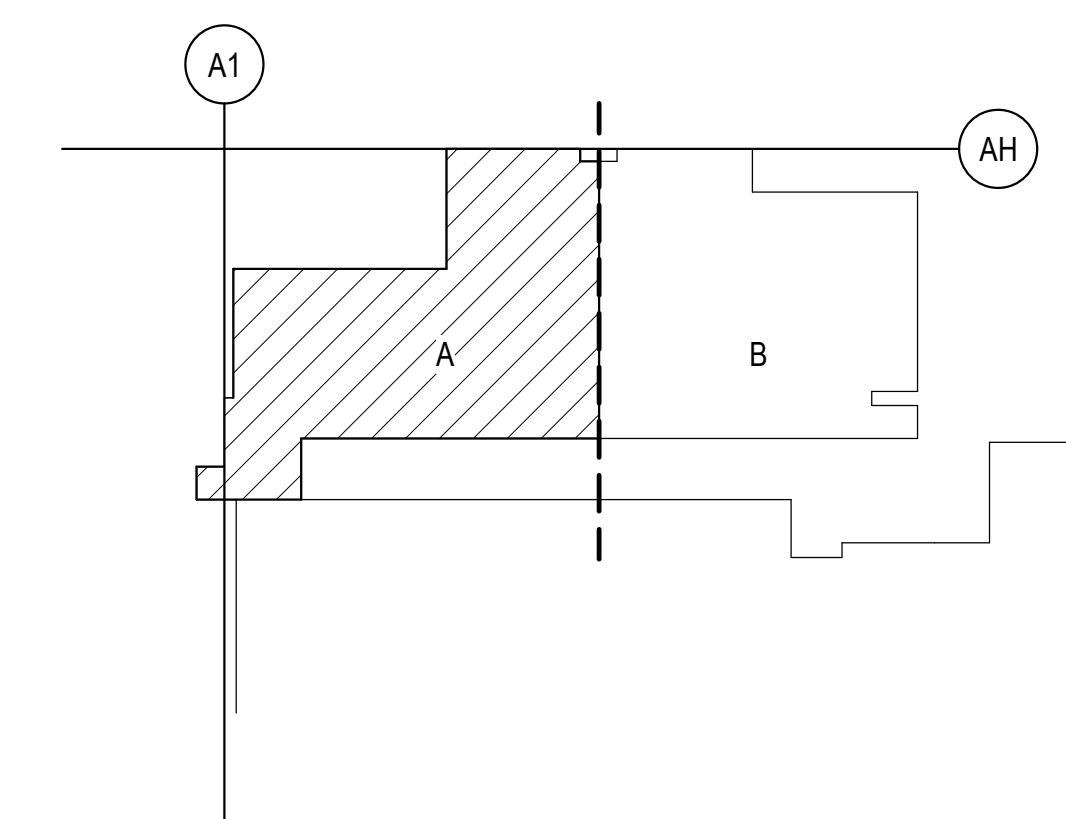
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SHEET NOTES

- 1. AAA
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KEY PLAN



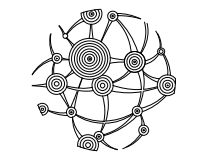
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DUBLIN, CA 94568

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Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

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MANAGEMENT

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TITLE

**BUILDING A - POWER
PARTIAL FLOOR PLAN -
AREA A**

SHEET

EA-311A

0 1/4" = 1'-0"

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C

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1 BUILDING A - POWER PARTIAL FLOOR PLAN - AREA B
1/8" = 1'-0"

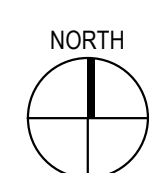
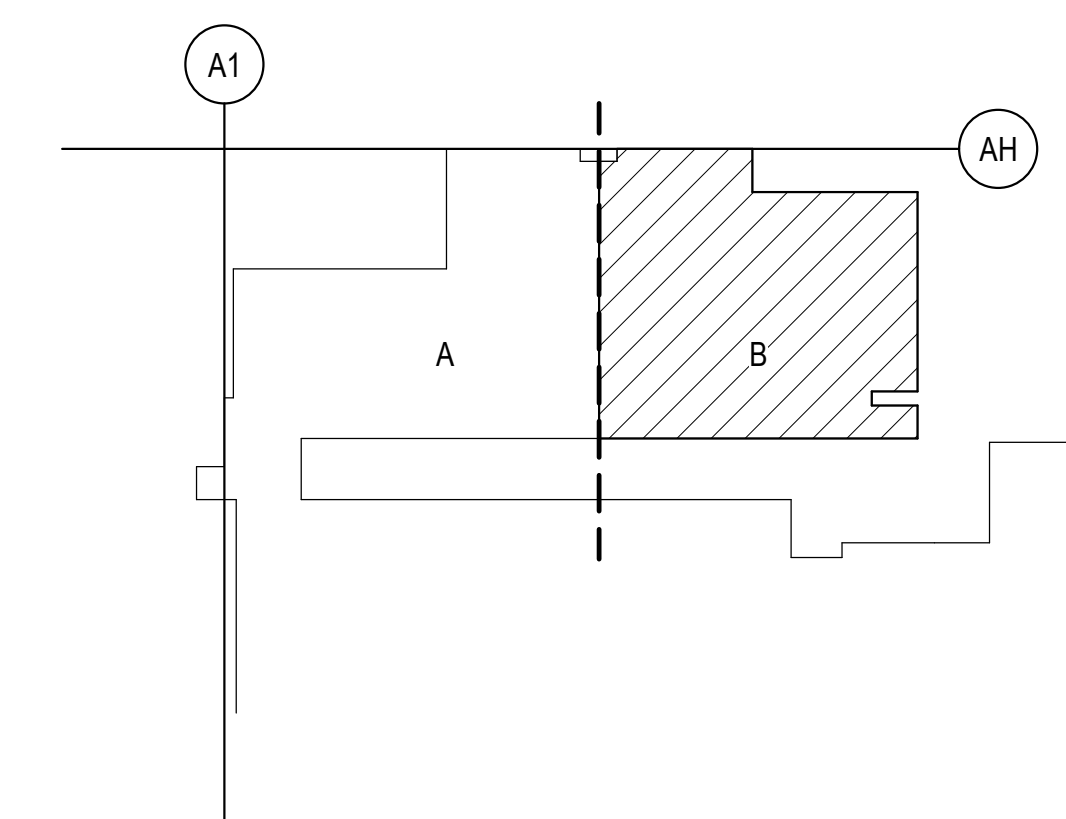
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SHEET NOTES

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- 3. CCC

KEY PLAN



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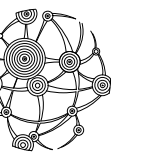
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427 13th Street
Oakland, CA 94612
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CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?00000X?
Building No: ?00X?
OSHPD No: ?P-2016-XXXXXX?

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MANAGEMENT

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TITLE

**BUILDING A - POWER
PARTIAL FLOOR PLAN -
AREA B**

SHEET

EA-311B

0 1/4" = 1'

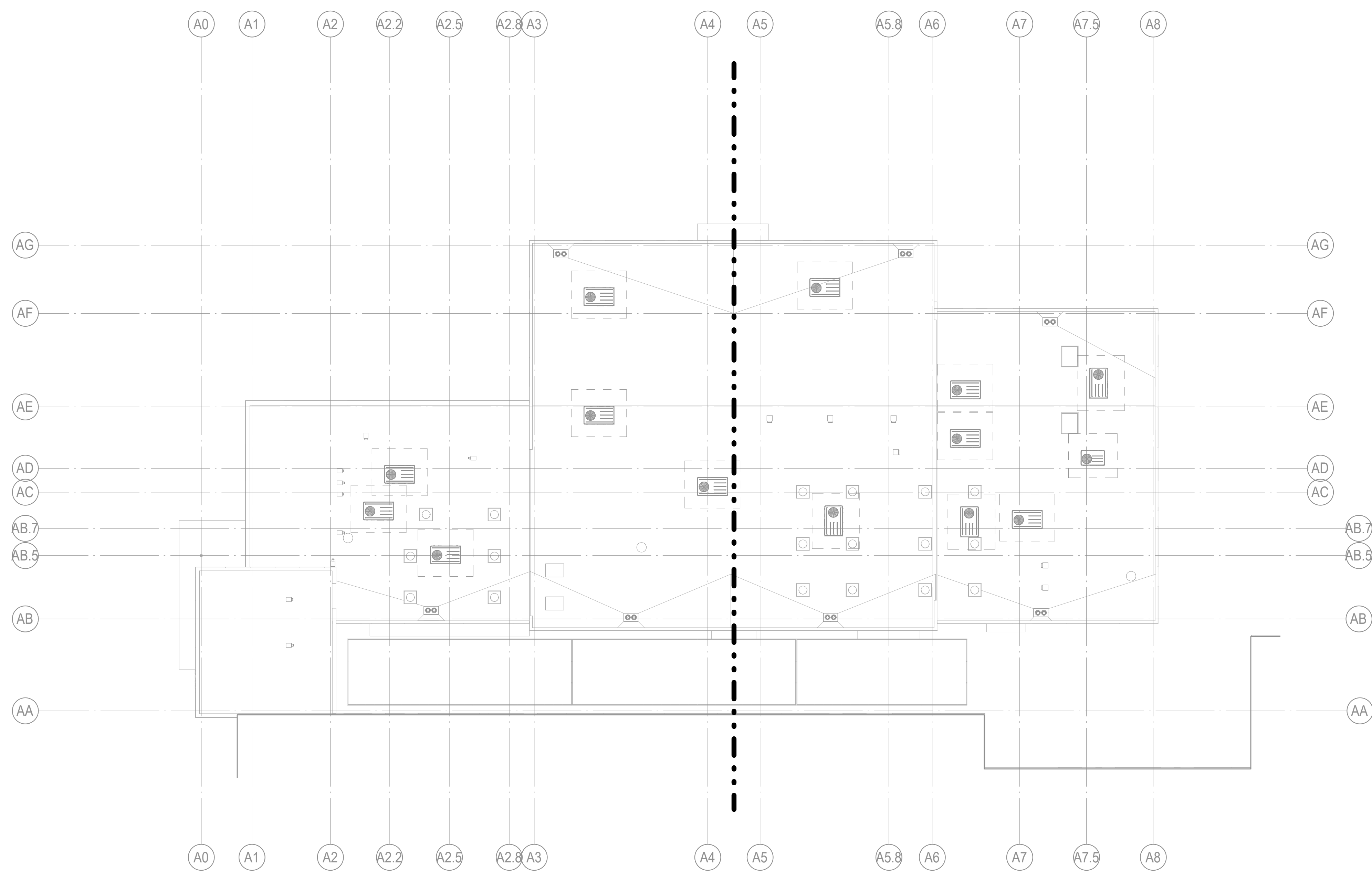
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1 BUILDING A - POWER OVERALL ROOF PLAN
1/16" = 1'-0"

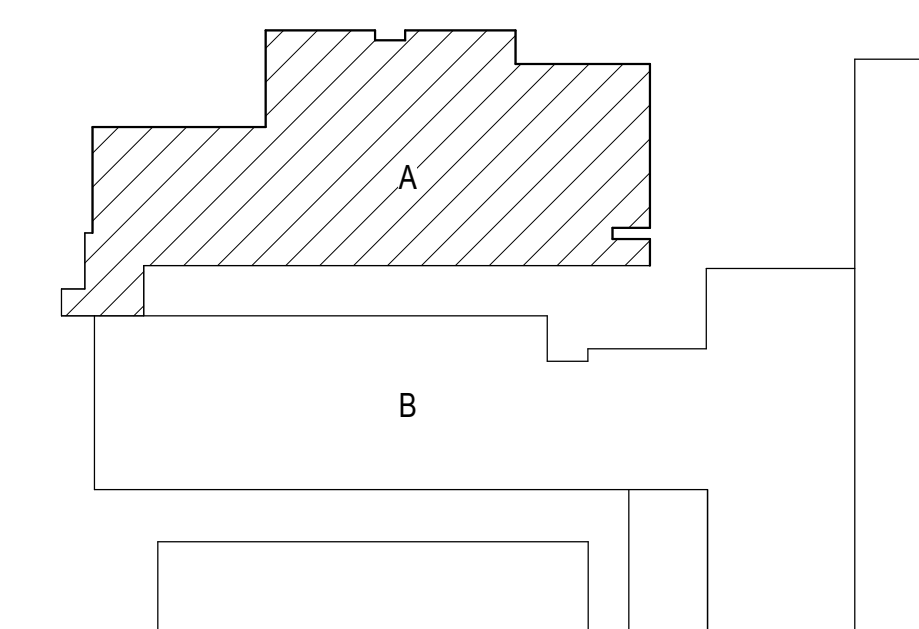
GENERAL NOTES

- A. WHERE PANELBOARDS ARE LOCATED ON FLOOR BELOW TO FEED ITEMS ON ROOF; PENETRATE ROOF FROM SPACE BELOW TO LOCATION OF DEVICE OR MOTOR. SMALL SECTIONS OF HORIZONTAL CONDUIT NOT EXCEEDING 10 FEET ARE PERMITTED WHERE:
 - 1. INSTALLED LOCAL TO EQUIPMENT SERVED
 - 2. WITHIN PROXIMITY OF EQUIPMENT SERVER.
- B. USE LIQUID FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION TO EQUIPMENT. MAXIMUM LENGTH OF LIQUID TIGHT FLEXIBLE METAL CONDUIT: 6 FEET. SUPPORT PER NEC ARTICLE 350 AT 4-12 FEET INTERVALS AND WITHIN 12 INCHES OF EACH OUTLET AND TERMINATION.
- C. MOUNT DISCONNECT SWITCHES, COMBINATION STARTERS, RECEPTACLES, AND OTHER DEVICES FREE AND INDEPENDENT OF MECHANICAL EQUIPMENT HOUSINGS EXCEPT WHERE ALL THE FOLLOWING CONDITIONS APPLY, THE DISCONNECT MAY BE MOUNTED TO THE MECHANICAL EQUIPMENT SERVED FROM THE DISCONNECT SWITCH:
 - 1. WHERE ACCEPTABLE TO THE MECHANICAL CONTRACTOR
 - 2. WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION
 - 3. WHERE THE LOCATION PROVIDES FREE AND CLEAR FRONT ACCESS TO DEVICES AND SWITCHES FOR SERVICE AND USE
 - 4. WHERE THE LOCATION DOES NOT INHIBIT ACCESS TO MECHANICAL EQUIPMENT FOR SERVICE, INSPECTION, AND OPERATION
 - 5. WHERE AIR FLOW PATHS ARE NOT OBSTRUCTED.
- D. ALL ROOF PENETRATIONS TO BE PERFORMED BY A LICENSED ROOFING CONTRACTOR. COORDINATE ROOF PENETRATION AND FLASHING WITH ROOFING CONTRACTOR.
- E. CONSTRUCTION OF ROOF SUPPORTS (SLEEPERS) FOR RUNS OF HORIZONTAL CONDUIT DEDICATED TO EQUIPMENT SERVED TO BE BY LICENSED ROOFING CONTRACTOR AND ATTACHED TO ROOF STRUCTURE.
- F. SECURE CONDUIT TO SUPPORTS AT CODE REQUIRED INTERVALS.
- G. ROOF PENETRATIONS MATERIALS AND CONSTRUCTION BY LICENSED ROOFING CONTRACTOR. SEE ARCHITECTURAL DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.
- H. VERIFY EXACT LOCATION, LAYOUT AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- I. REFER TO CONTROLS CONTRACTOR WHERE REQUIRED FOR ALL CONDUIT REQUIREMENTS.
- J. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT POWER POINT OF CONNECTION TO ALL UNITS AND LOCATE DISCONNECT WHERE CODE REQUIRE CLEARANCES WILL BE MAINTAINED. LOCATION OF DISCONNECT ARE DIAGRAMMATIC, CONTRACTOR SHALL PROVIDE FLOOR PEDESTALS OR UNISTRUT AT THE AC ENCLOSURE FOR MOUNTING OD DISCONNECT.
- K. FIRE ALARM DEVICES, DAMPERS, SMOKE DETECTORS AND REQUIRED CONTROLS POWER SHALL BE COORDINATED WITH HVAC AND FIRE ALARM SYSTEM INSTALLER.

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



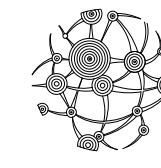
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Facility No: ?00000?
Building No: ?00?
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MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING A - POWER
OVERALL ROOF PLAN**

SHEET
EA-321

0 1/4" = 1'-0"

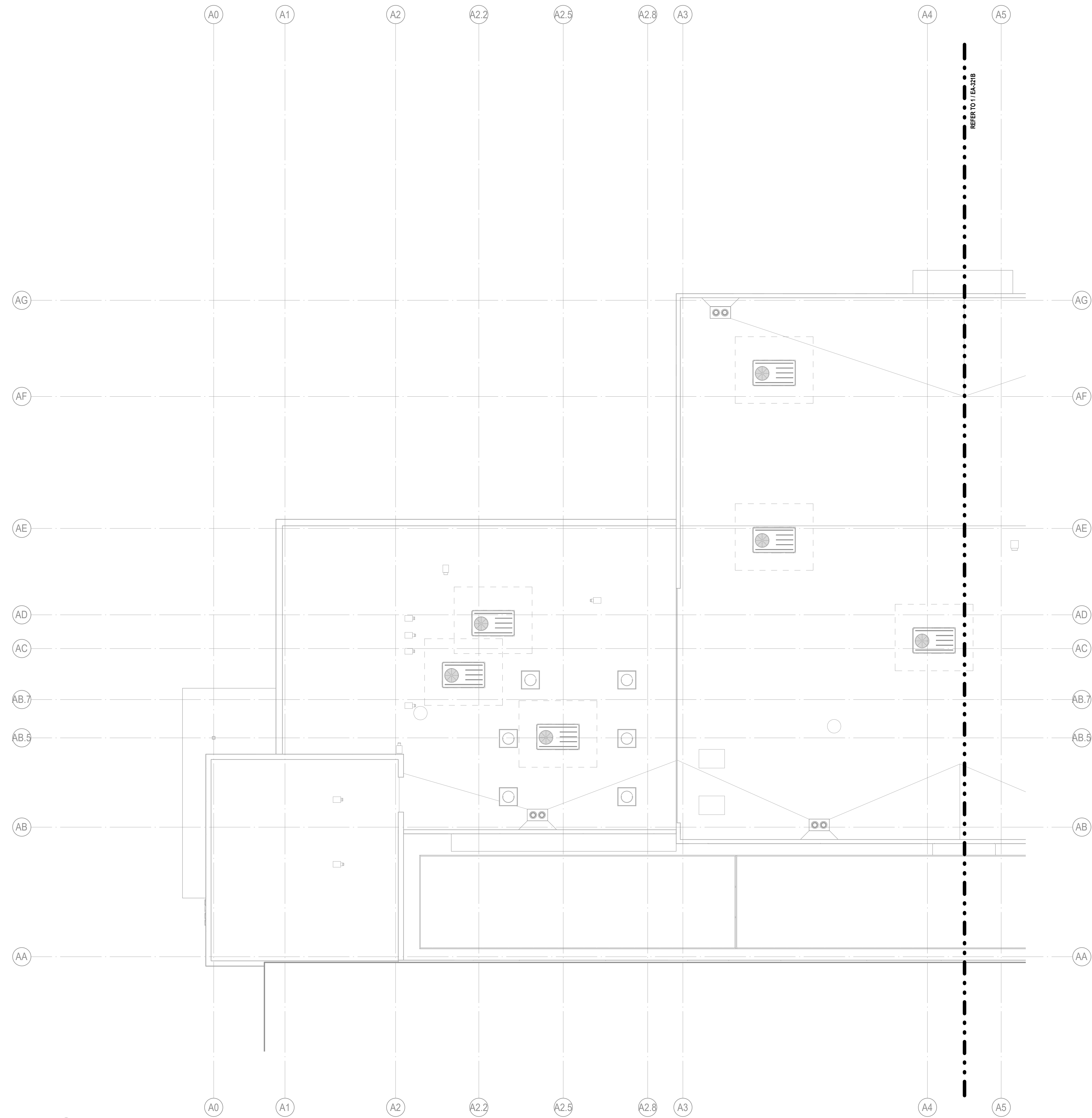
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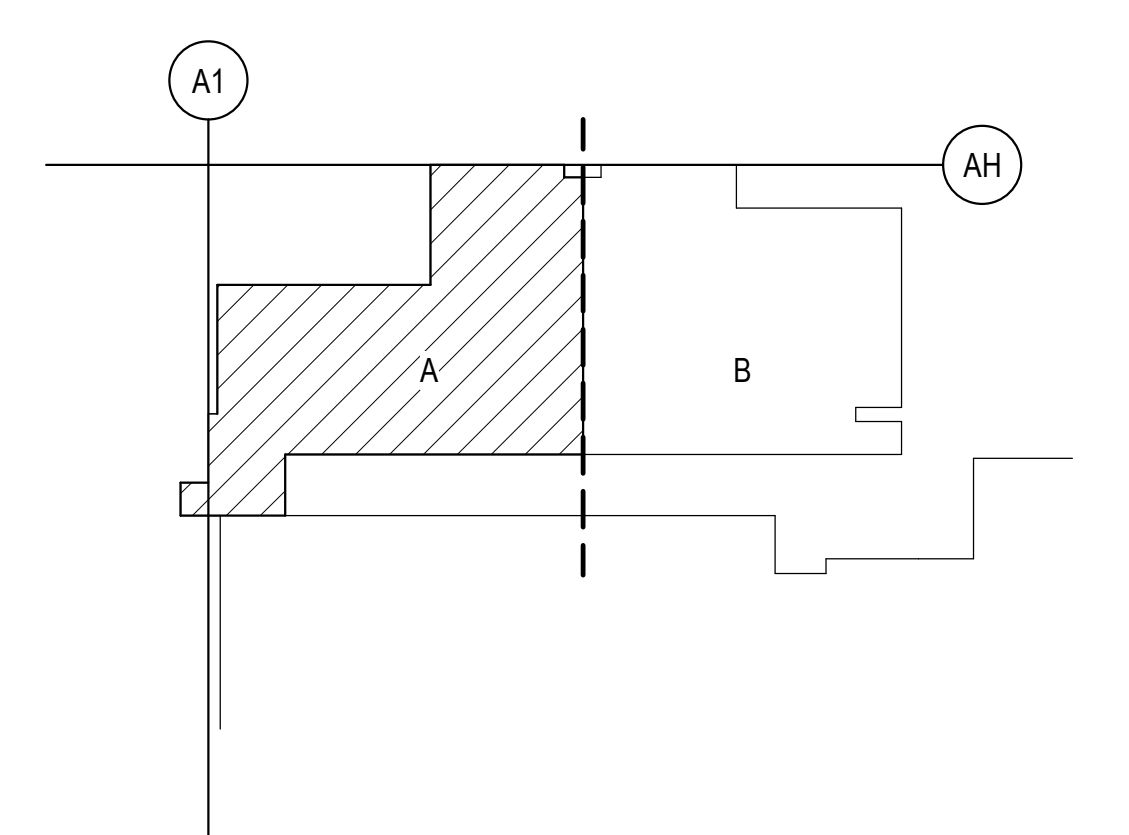
GENERAL NOTES

- A. WHERE PANELBOARDS ARE LOCATED ON FLOOR BELOW TO FEED ITEMS ON ROOF: PENETRATE ROOF FROM SPACE BELOW TO LOCATION OF DEVICE OR MOTOR. SMALL SECTIONS OF HORIZONTAL CONDUIT NOT EXCEEDING 10 FEET ARE PERMITTED WHERE:
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SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN

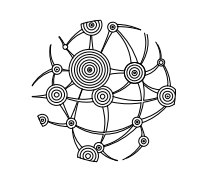


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Facility No: ?00000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
 LIONAKIS PROJECT NO: 019091
 CLIENT PROJECT NO: -
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TITLE
**BUILDING A - POWER
 PARTIAL ROOF PLAN -
 AREA A**

SHEET
EA-321A

0 1/4" = 1'-0"

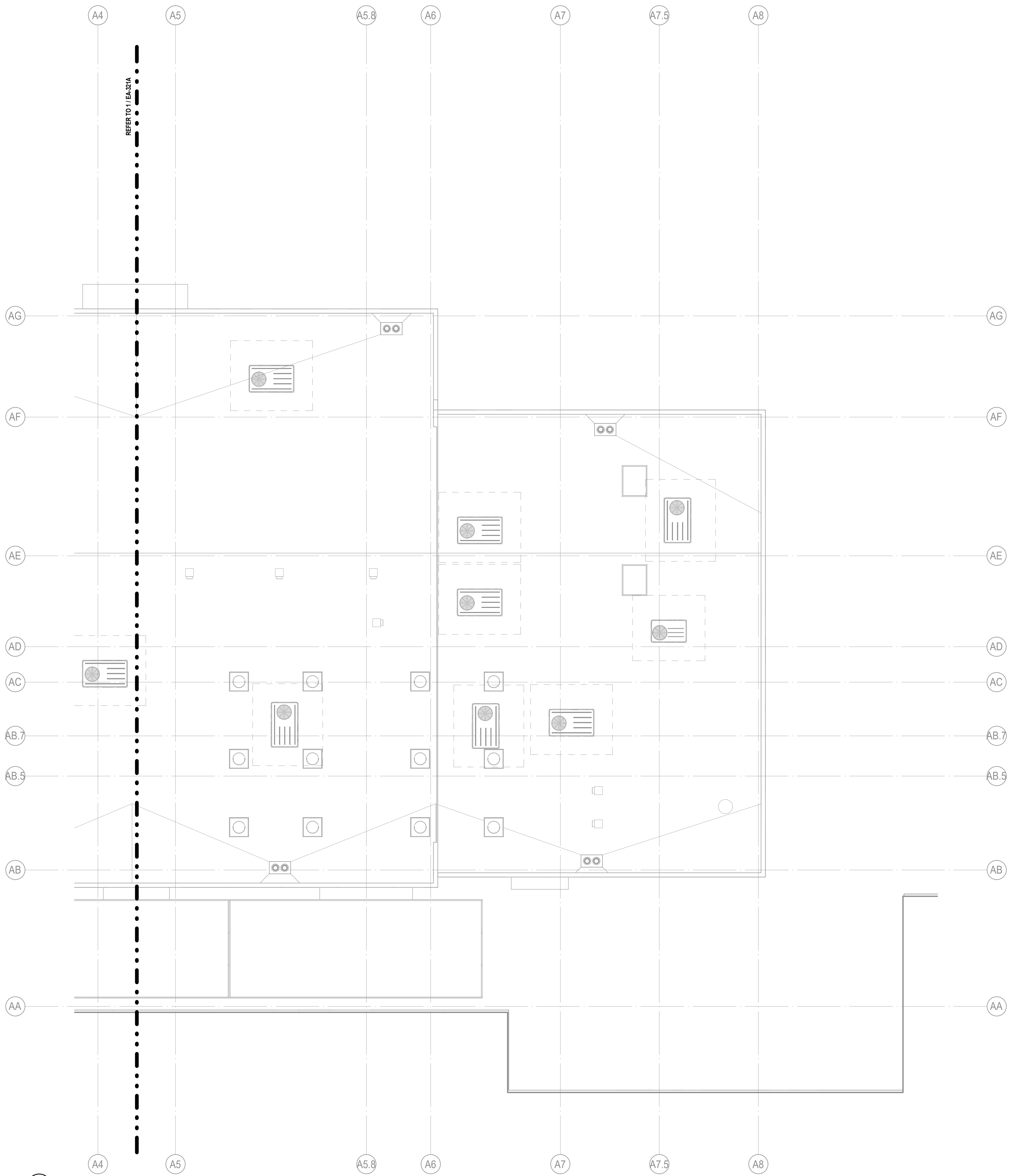
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1 BUILDING A - POWER PARTIAL ROOF PLAN - AREA B
1/8" = 1'-0"

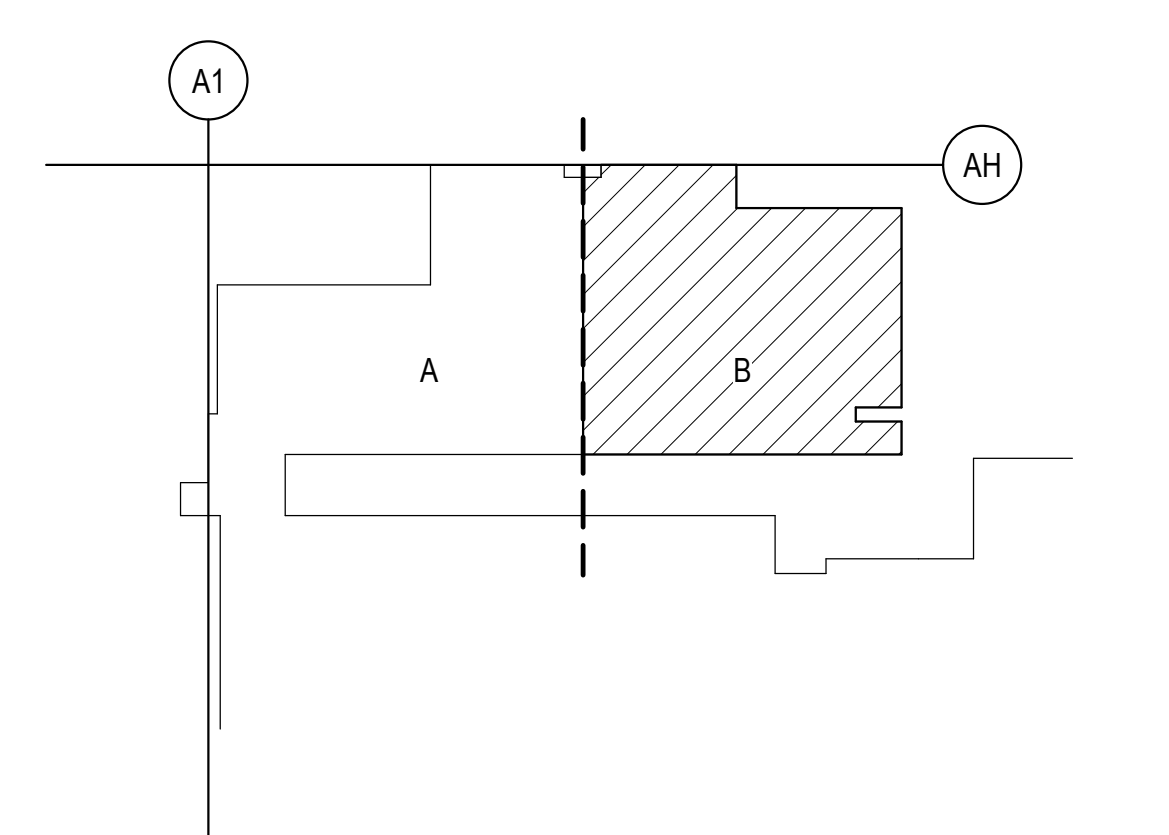
GENERAL NOTES

- A. WHERE PANELBOARDS ARE LOCATED ON FLOOR BELOW TO FEED ITEMS ON ROOF: PENETRATE ROOF FROM SPACE BELOW TO LOCATION OF DEVICE OR MOTOR. SMALL SECTIONS OF HORIZONTAL CONDUIT NOT EXCEEDING 10 FEET ARE PERMITTED WHERE:
 - 1. INSTALLED LOCAL TO EQUIPMENT SERVED
 - 2. WITHIN PROXIMITY OF EQUIPMENT SERVER.
- B. USE LIQUID FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION TO EQUIPMENT. MAXIMUM LENGTH OF LIQUID TIGHT FLEXIBLE METAL CONDUIT: 6 FEET. SUPPORT PER NEC ARTICLE 350 AT 4- 12 FEET INTERVALS AND WITHIN 12 INCHES OF EACH OUTLET AND TERMINATION.
- C. MOUNT DISCONNECT SWITCHES, COMBINATION STARTERS, RECEPTACLES, AND OTHER DEVICES FREE AND INDEPENDENT OF MECHANICAL EQUIPMENT HOUSINGS EXCEPT WHERE ALL THE FOLLOWING CONDITIONS APPLY, THE DISCONNECT MAY BE MOUNTED TO THE MECHANICAL EQUIPMENT SERVED FROM THE DISCONNECT SWITCH:
 - 1. WHERE ACCEPTABLE TO THE MECHANICAL CONTRACTOR
 - 2. WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION
 - 3. WHERE THE LOCATION PROVIDES FREE AND CLEAR FRONT ACCESS TO DEVICES AND SWITCHES FOR SERVICE AND USE
 - 4. WHERE THE LOCATION DOES NOT INHIBIT ACCESS TO MECHANICAL EQUIPMENT FOR SERVICE, INSPECTION, AND OPERATION.
 - 5. WHERE AIR FLOW PATHS ARE NOT OBSTRUCTED.
- D. ALL ROOF PENETRATIONS TO BE PERFORMED BY A LICENSED ROOFING CONTRACTOR. COORDINATE ROOF PENETRATION AND FLASHING WITH ROOFING CONTRACTOR.
- E. CONSTRUCTION OF ROOF SUPPORTS (SLEEPERS) FOR RUNS OF HORIZONTAL CONDUIT DEDICATED TO EQUIPMENT SERVED TO BE BY LICENSED ROOFING CONTRACTOR AND ATTACHED TO ROOF STRUCTURE.
- F. SECURE CONDUIT TO SUPPORTS AT CODE REQUIRED INTERVALS.
- G. ROOF PENETRATIONS MATERIALS AND CONSTRUCTION BY LICENSED ROOFING CONTRACTOR. SEE ARCHITECTURAL DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.
- H. VERIFY EXACT LOCATION, LAYOUT AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- I. REFER TO CONTROLS CONTRACTOR WHERE REQUIRED FOR ALL CONDUIT REQUIREMENTS.
- J. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT POWER POINT OF CONNECTION TO ALL UNITS AND LOCATE DISCONNECT WHERE CODE REQUIRE CLEARANCES WILL BE MAINTAINED. LOCATION OF DISCONNECT ARE DIAGRAMMATIC, CONTRACTOR SHALL PROVIDE FLOOR PEDESTALS OR UNISTRUT AT THE AC ENCLOSURE FOR MOUNTING OF DISCONNECT.
- K. FIRE ALARM DEVICES, DAMPERS, SMOKE DETECTORS AND REQUIRED CONTROLS POWER SHALL BE COORDINATED WITH HVAC AND FIRE ALARM SYSTEM INSTALLER.

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



FILE NO. ?XX-XXXX?
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 P 916.558.1900 F 916.558.1919
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INTEGRAL

427 13th Street
 Oakland, CA 94612
 510.663.2070 Telephone
 E-Mail: info@integralgroup.com
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PROJECT
**PUBLIC SAFETY COMPLEX /
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 TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: ?00000?
 Building No: ?00?
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MARK	DATE	DESCRIPTION
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TITLE
**BUILDING A - POWER
 PARTIAL ROOF PLAN -
 AREA B**

SHEET
EA-321B

0. 1/4" = 1'-0"

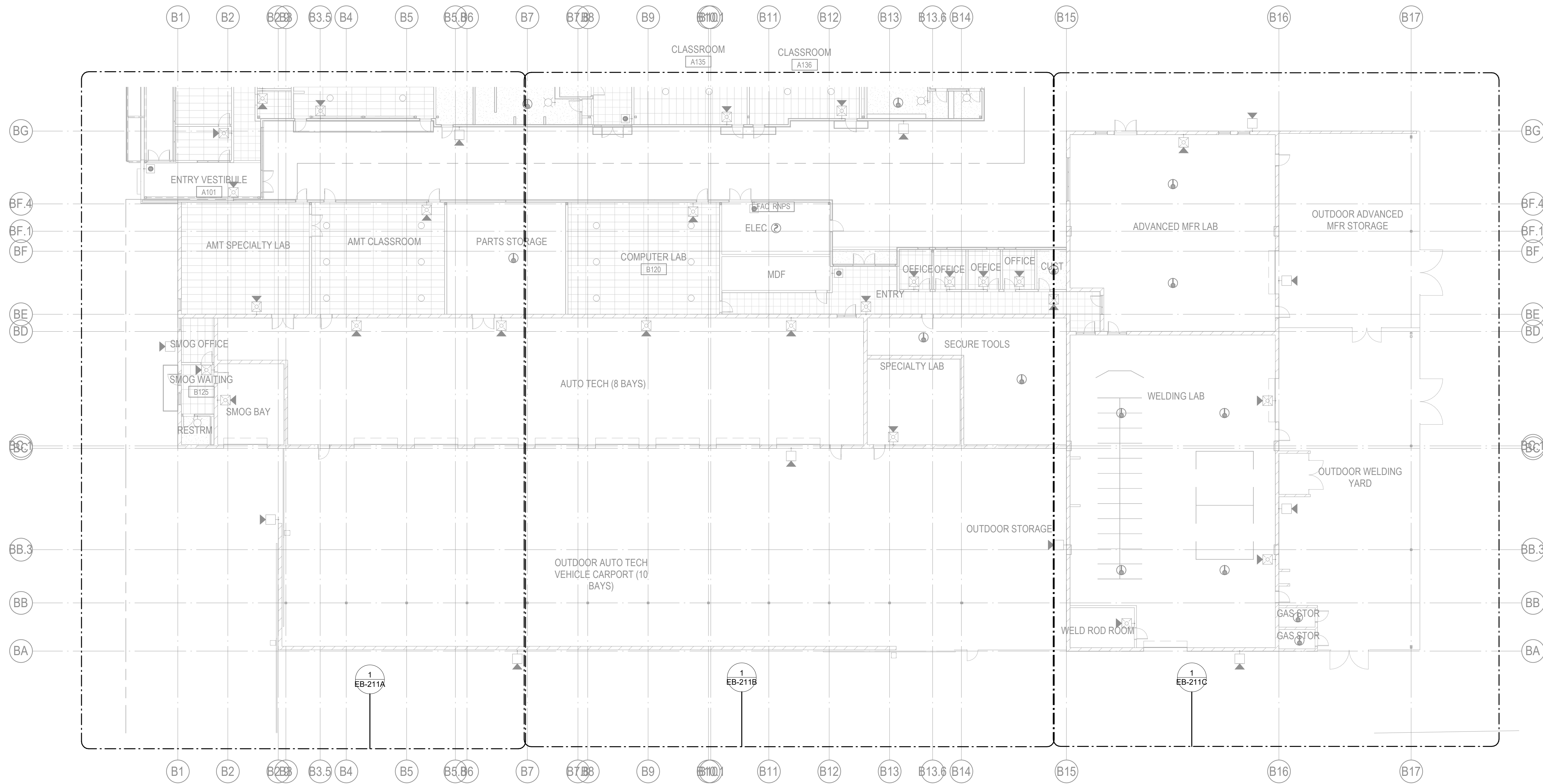
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B

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1/17/2020 3:12:29 PM



1 BUILDING B - LIGHTING OVERALL FLOOR PLAN
1/16" = 1'-0"

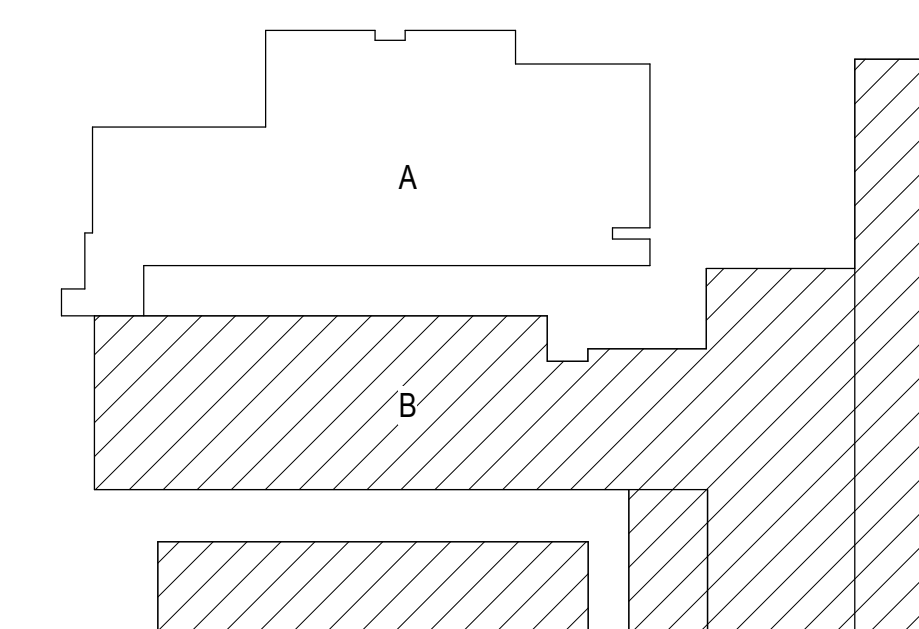
GENERAL NOTES

- A. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR TYPES AND MATERIALS. COORDINATE LIGHTING FIXTURE CEILING ROUGH-IN, TRIMS AND SUPPORT WITH LIGHTING SUPPLIER PRIOR TO RELEASE OF LIGHTING FIXTURES.
- B. FIELD MEASURE ALL LIGHTING COVES TO DETERMINE EXACT LENGTHS. LIGHTING FIXTURES SHALL PROVIDE UNIFORM LIGHTING FROM END TO END OF COVE. MAXIMUM 6" SPACE IS ALLOWED AT EACH END OF COVE FOR CONTINUOUS INSTALLATIONS.
- C. OCCUPANCY SENSOR IN OFFICES SHOULD BE "MANUAL ON / AUTO OFF".

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



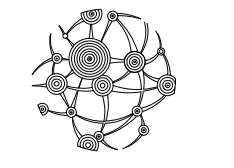
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INTEGRAL

427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
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3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: 70000007
Building No: 7007
OSHPD No: 7P-2016-XXXXXX?

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	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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TITLE
**BUILDING B - LIGHTING
OVERALL FLOOR PLAN**

SHEET
EB-211

0 1/4" = 1'-0"

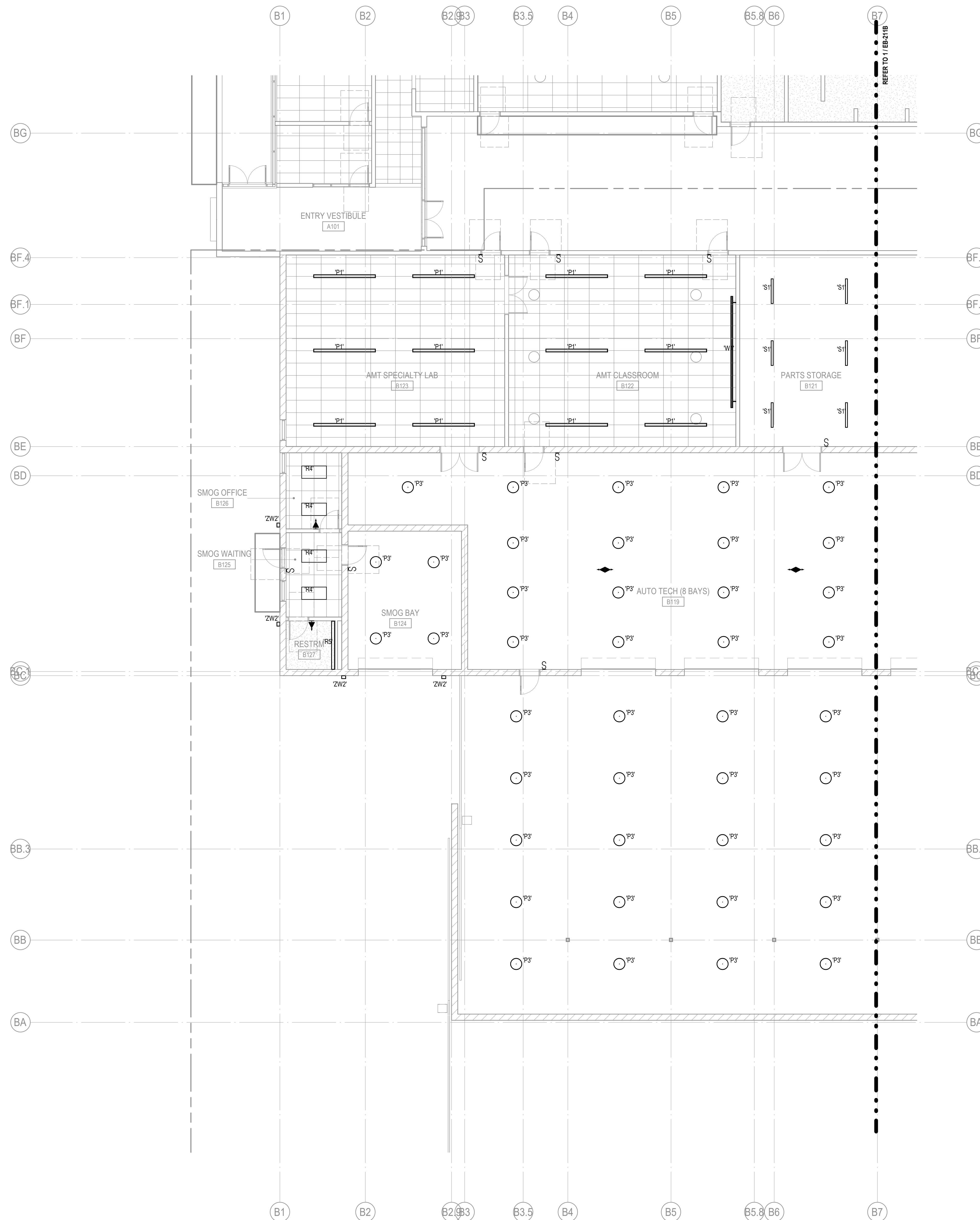
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1 BUILDING B - LIGHTING PARTIAL FLOOR PLAN - AREA A
1/8" = 1'-0"

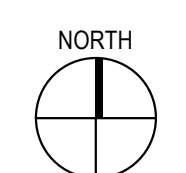
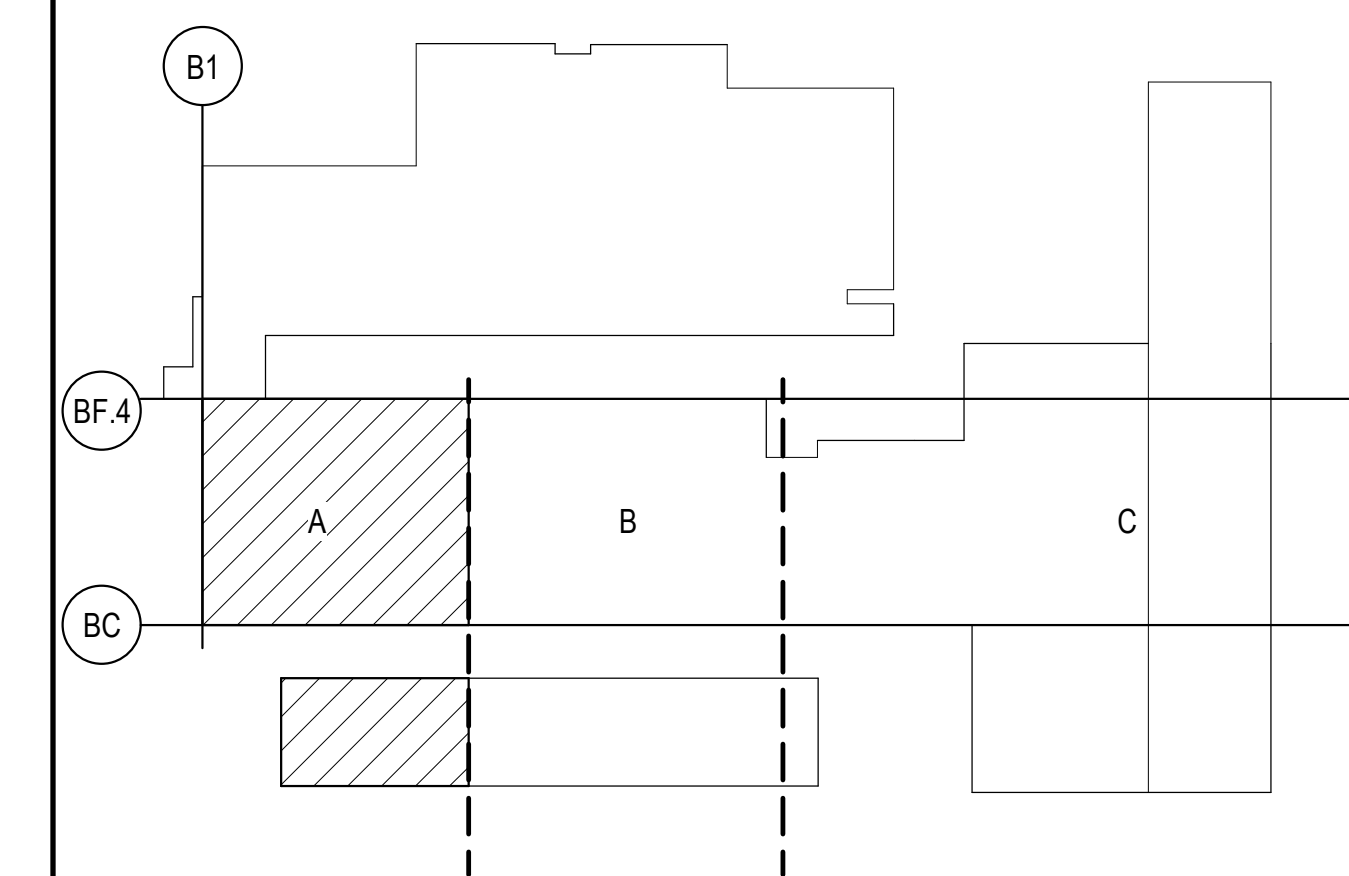
GENERAL NOTES

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- B. FIELD MEASURE ALL LIGHTING COVES TO DETERMINE EXACT LENGTHS. LIGHTING FIXTURES SHALL PROVIDE UNIFORM LIGHTING FROM END TO END OF COVE. MAXIMUM 6" SPACE IS ALLOWED AT EACH END OF COVE FOR CONTINUOUS INSTALLATIONS.
- C. OCCUPANCY SENSOR IN OFFICES SHOULD BE "MANUAL ON / AUTO OFF".

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



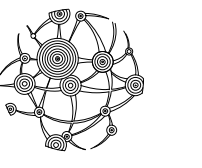
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427 13th Street
Oakland, CA 94612
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LIVERMORE, CA 94551

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COLLEGE DISTRICT
7600 DUBLIN BLVD
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Facility No: ?00000?7
Building No: ?00?7
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

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TITLE
**BUILDING B - LIGHTING
PARTIAL FLOOR PLAN -
AREA A**

SHEET
EB-211A

0 1/4" = 1'-0"

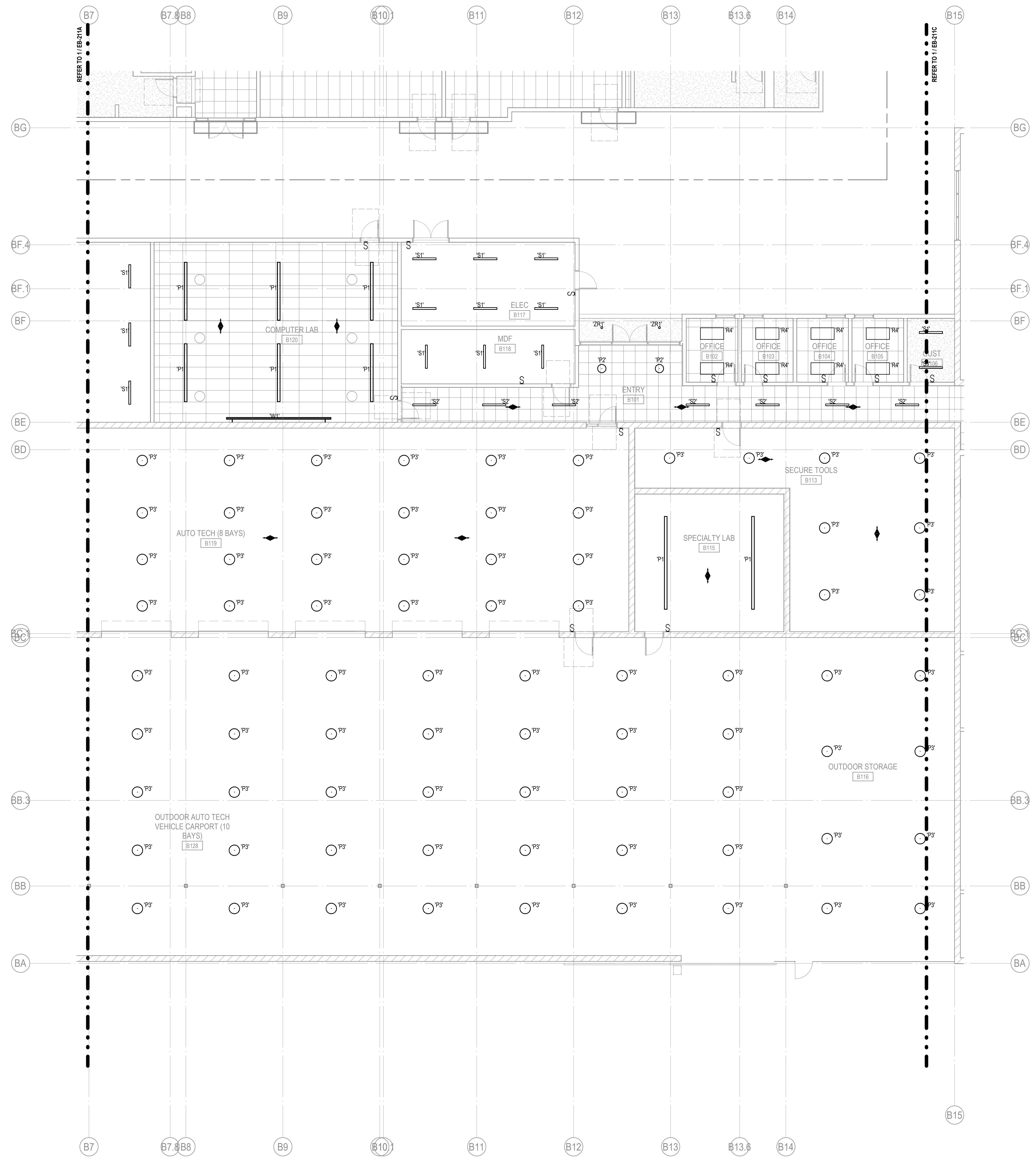
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1 BUILDING B - LIGHTING PARTIAL FLOOR PLAN - AREA B
1/8" = 1'-0"

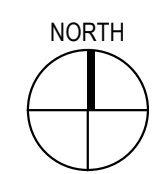
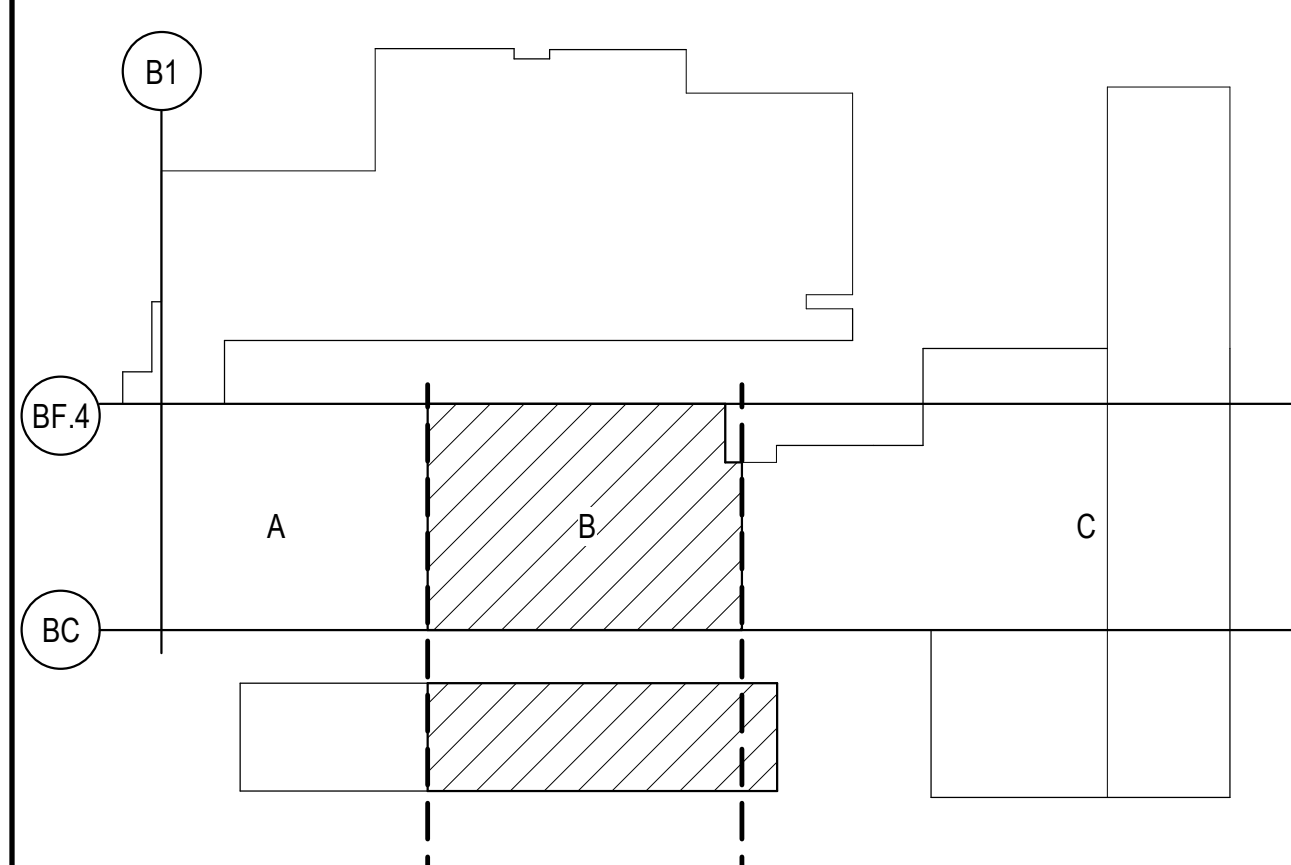
GENERAL NOTES

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SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



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 P 916.558.1900 F 916.558.1919
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 Oakland, CA 94612
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 E-Mail: info@integralgroup.com
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PROJECT
**PUBLIC SAFETY COMPLEX /
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LAS POSITAS COLLEGE
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

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 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

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 Building No: 9007
 OSHPD No: 7P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
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TITLE
**BUILDING B - LIGHTING
 PARTIAL FLOOR PLAN -
 AREA B**

SHEET
EB-211B

0 1/4" = 1'-0"

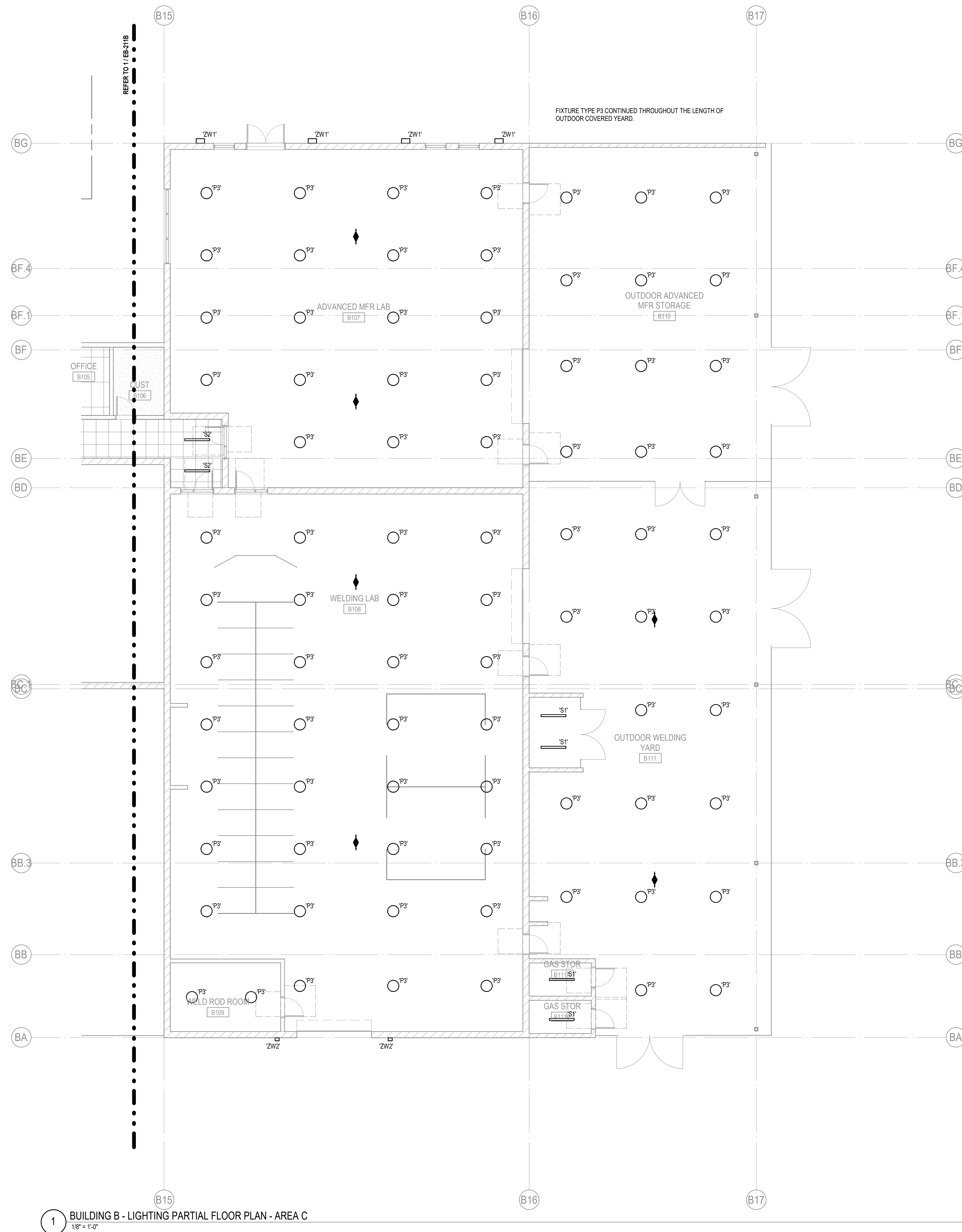
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1 BUILDING B - LIGHTING PARTIAL FLOOR PLAN - AREA C
1/8" = 1'-0"

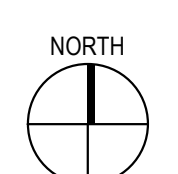
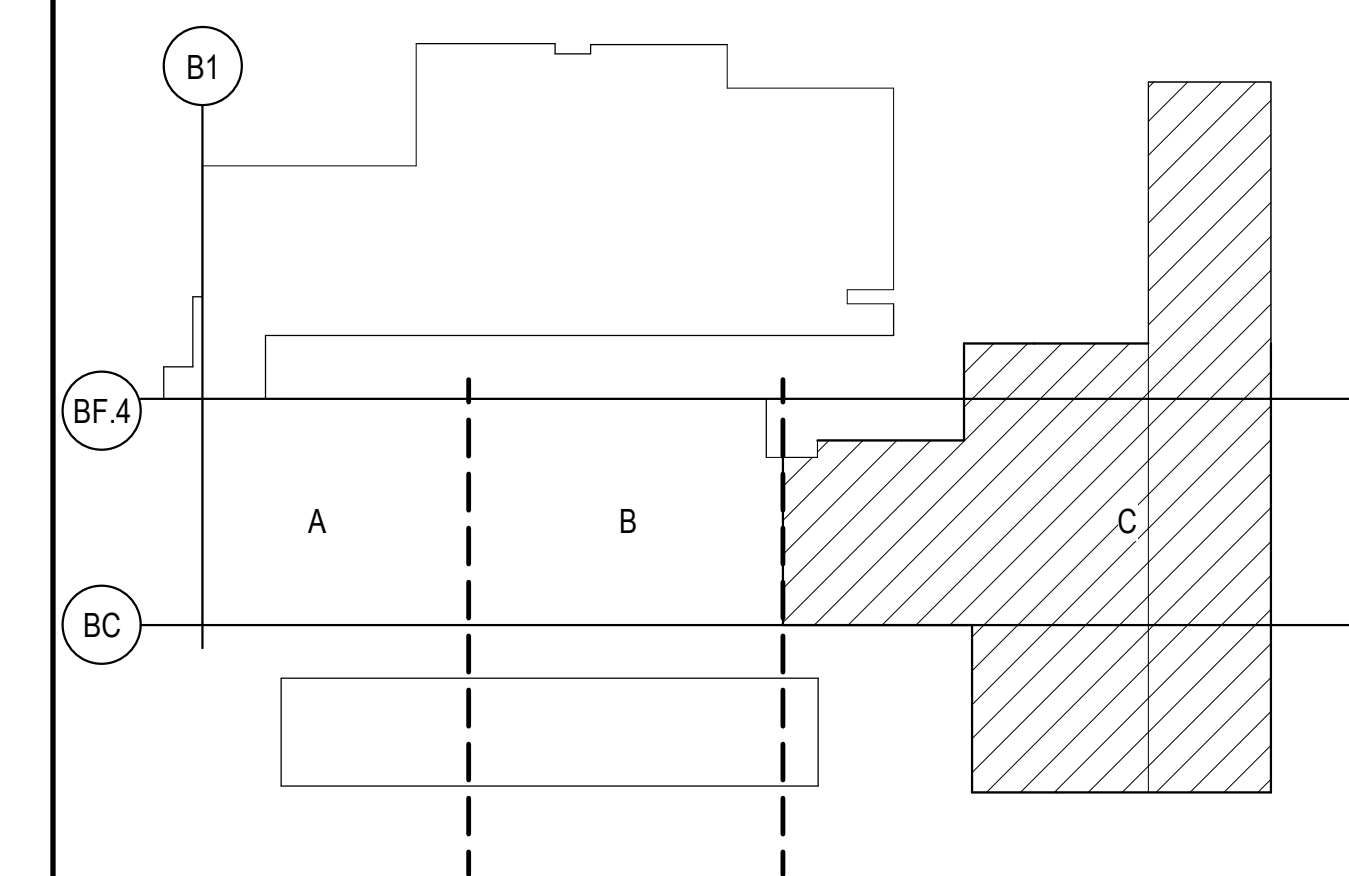
GENERAL NOTES

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- C. OCCUPANCY SENSOR IN OFFICES SHOULD BE "MANUAL ON / AUTO OFF".

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



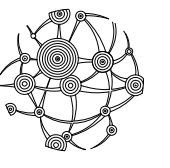
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510.663.2070 Telephone
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3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

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7600 DUBLIN BLVD
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Building No: ?00?7
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TITLE

**BUILDING B - LIGHTING
PARTIAL FLOOR PLAN -
AREA C**

SHEET

EB-211C

0 1/4" = 1'

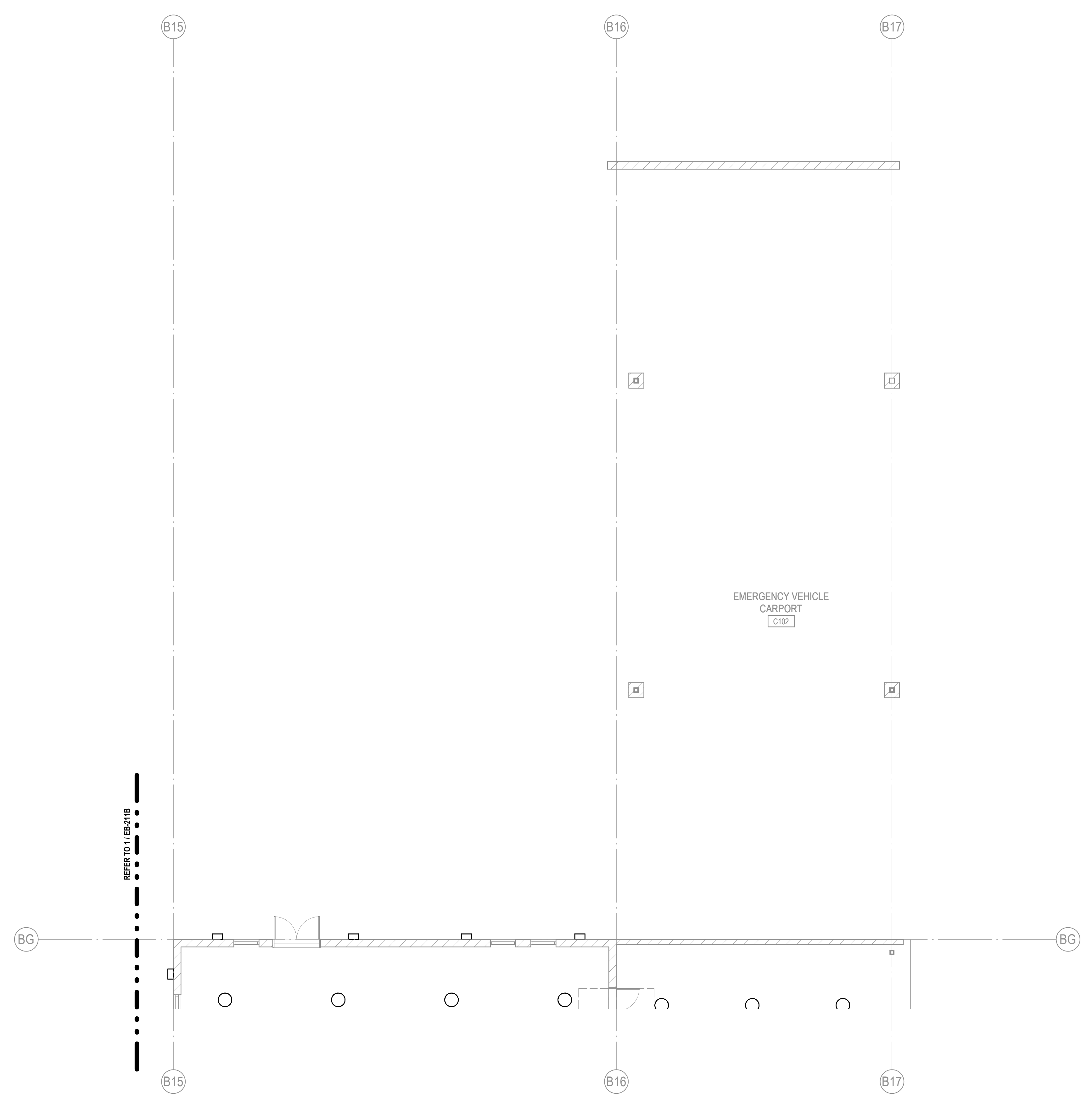
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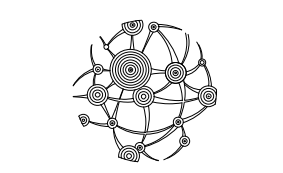
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1 BUILDING B - LIGHTING PARTIAL FLOOR PLAN - CARPORT
1/8" = 1'-0"

FILE NO. ?XX-XXXX?
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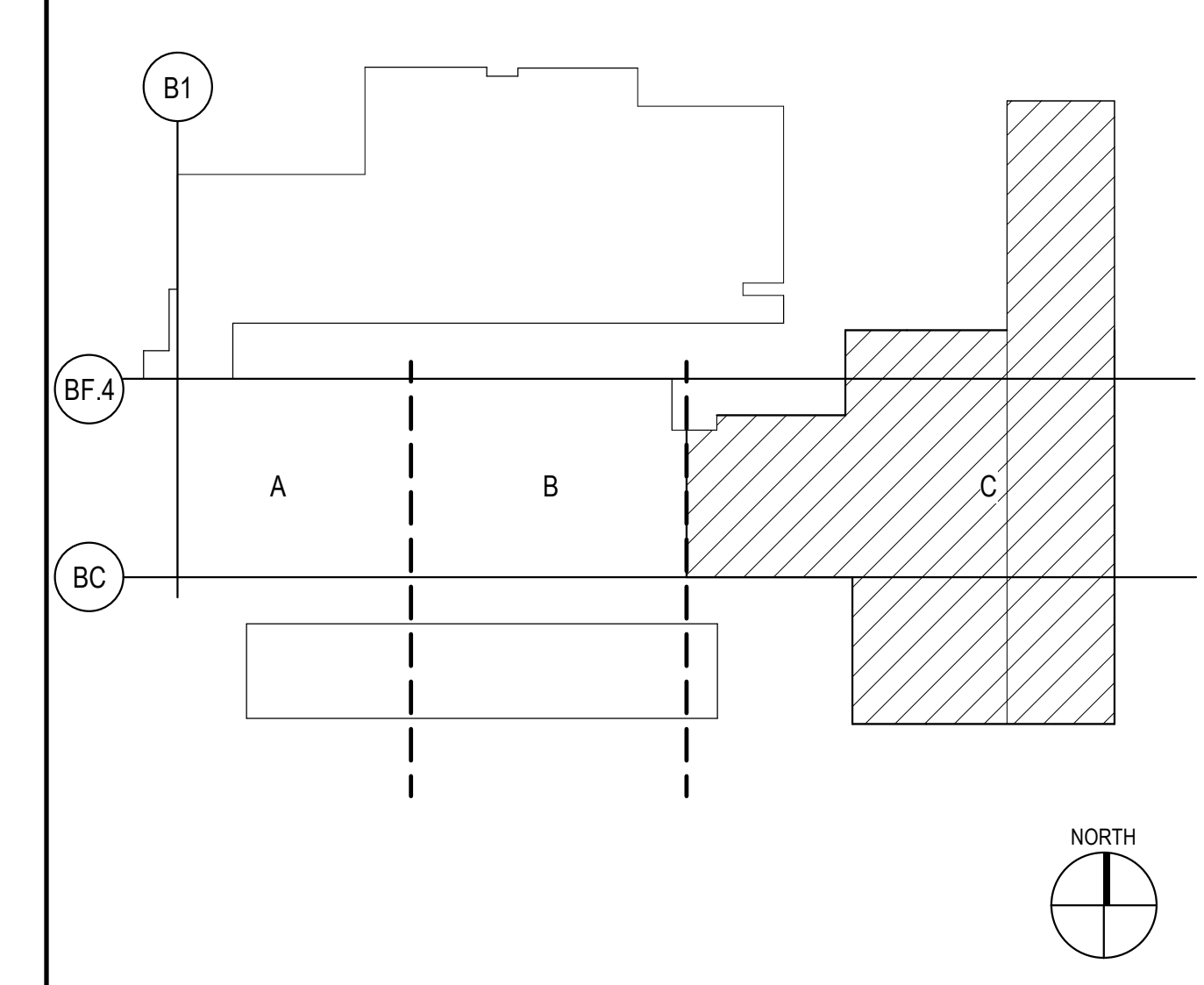
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 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: ?00000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
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MANAGEMENT
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KEY PLAN



TITLE
**BUILDING B - LIGHTING
 PARTIAL FLOOR PLAN -
 CARPORT**

SHEET
EB-211D

0 1/4" = 1'

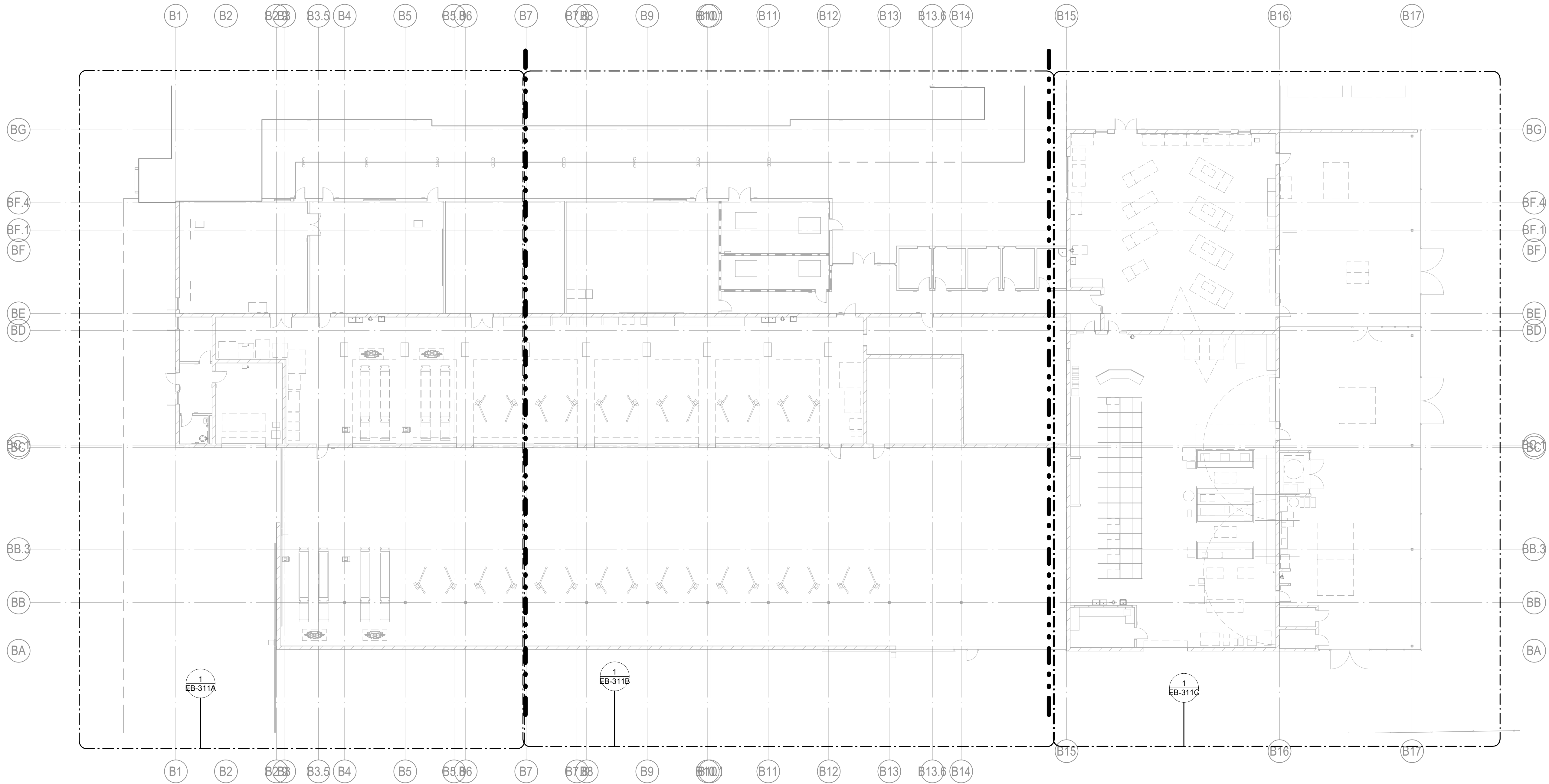
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1 BUILDING B - POWER OVERALL FLOOR PLAN
1/16" = 1'-0"

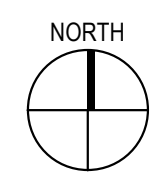
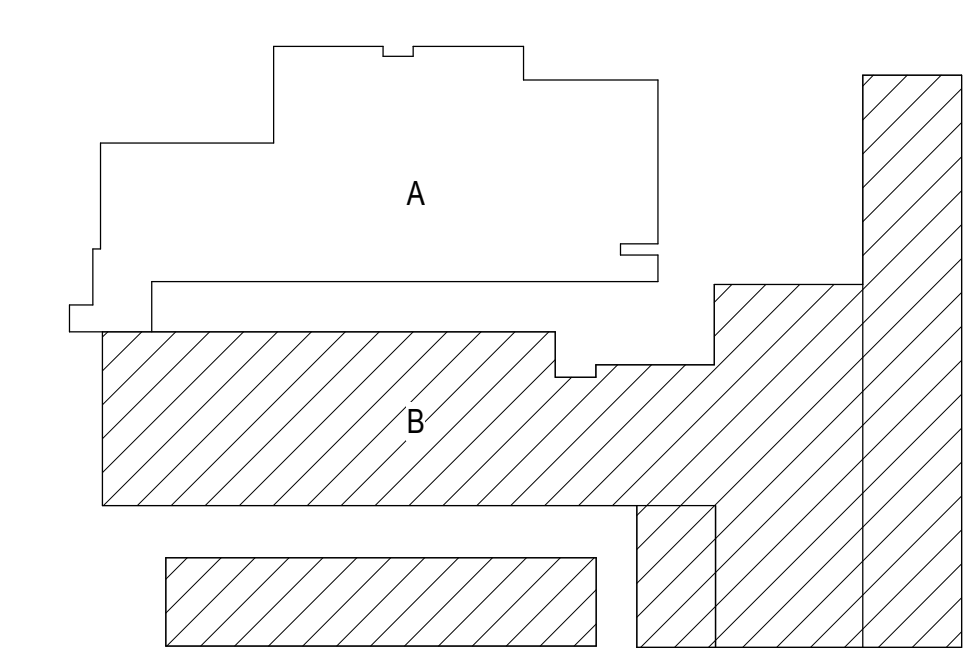
GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.
- B. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECT'S PAINTING SECTION FOR REQUIREMENTS.
- C. STUB A MINIMUM OF 4 SPARE 3/4" CONDUITS FROM ALL NEW RECESSED PANELBOARDS TO ACCESSIBLE CEILING LOCATION.
- D. SEE EQUIPMENT SCHEDULE, SINGLE LINE DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTIONS.
- E. PROVIDE POWER 120V/24V TRANSFORMER AS REQUIRED TO POWER VAV/RY-PASS DAMPERS, RESTROOM PLUMBING CONTROLS, DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS AND FIRE SMOKE DAMPERS FOR MECHANICAL EQUIPMENT. SEE DIAGRAMS ON MECHANICAL AND PLUMBING DRAWINGS FOR CONNECTION TO MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE CIRCUIT FORM NEAREST AVAILABLE PANEL, UNLESS OTHERWISE NOTED.
- F. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- G. REFER TO DATA/TELECOM, AUDIO-VISUAL AND SECURITY PLANS FOR ALL ITEMS, LOCATIONS, DEVICES AND EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO ALL CONDUITS AND JUNCTION BOXES.

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



TITLE
BUILDING B - POWER OVERALL FLOOR PLAN

SHEET
EB-311

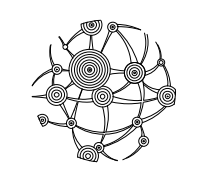
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SEAL

PROJECT
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3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?000000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

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0 1/4" = 1'

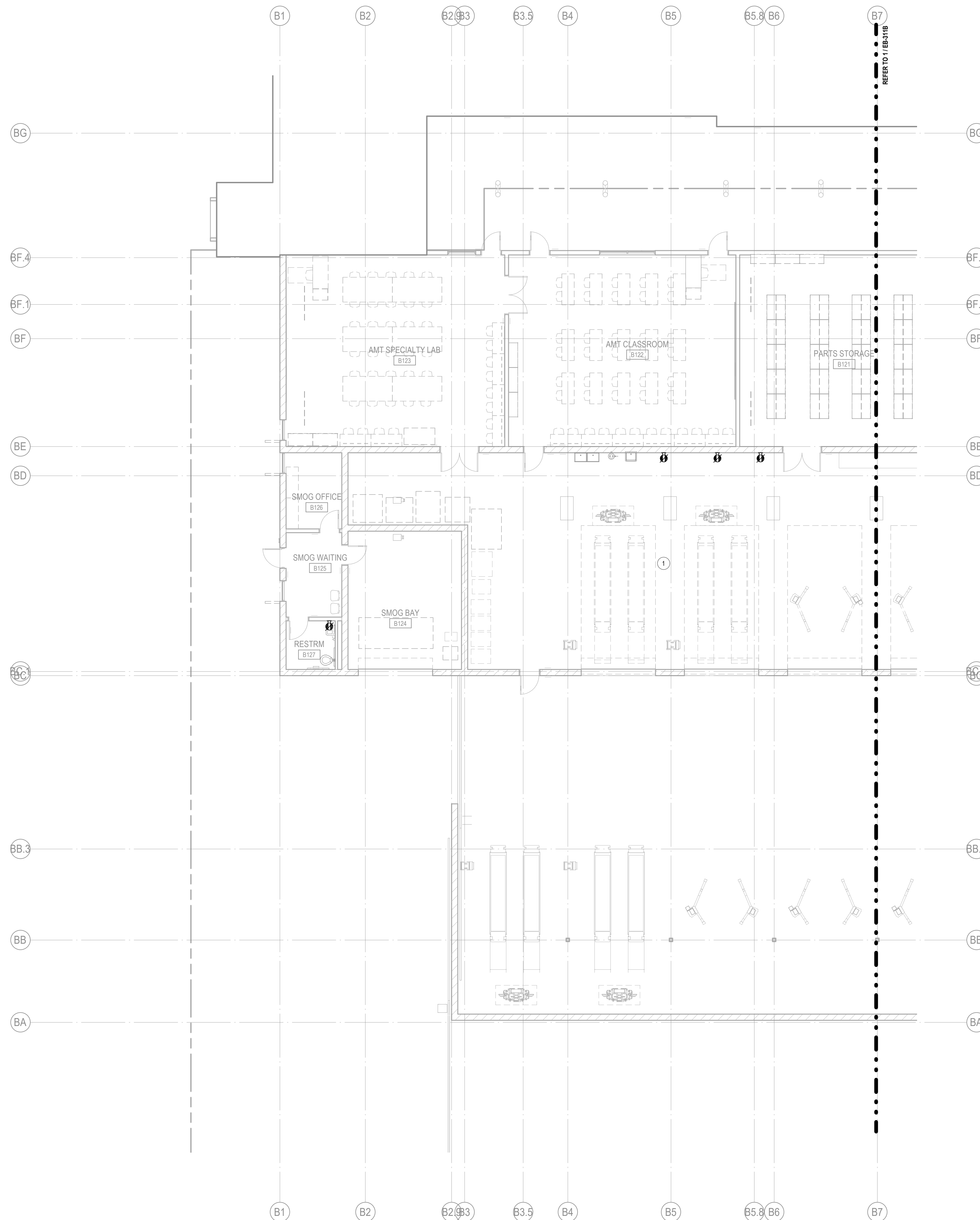
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1 BUILDING B - POWER PARTIAL FLOOR PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

- COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.
- IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECT'S PAINTING SECTION FOR REQUIREMENTS.
- STUB A MINIMUM OF 4 SPARE 3/4" CONDUITS FROM ALL NEW RECESSED PANELBOARDS TO ACCESSIBLE CEILING LOCATION.
- SEE EQUIPMENT SCHEDULE, SINGLE LINE DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTIONS.
- PROVIDE POWER 120V/24V TRANSFORMER AS REQUIRED TO POWER VAV/RY-PASS DAMPERS, RESTROOM PLUMBING CONTROLS, DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS AND FIRE SMOKE DAMPERS FOR MECHANICAL EQUIPMENT. SEE DIAGRAMS ON MECHANICAL AND PLUMBING DRAWINGS FOR CONNECTION TO MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE CIRCUIT FORM NEAREST AVAILABLE PANEL, UNLESS OTHERWISE NOTED.
- SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- REFER TO DATA/TELECOM, AUDIO-VISUAL AND SECURITY PLANS FOR ALL ITEMS, LOCATIONS, DEVICES AND EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO ALL CONDUITS AND JUNCTION BOXES.

SHEET NOTES

- EQUIPMENT CONNECTIONS IN AUTO TECH AREA TO BE COORDINATED IN DD.
- BBB
- CCC

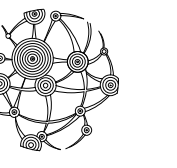
FILE NO. ?XX-XXXX?

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DIV. OF THE STATE ARCHITECT
?XX-XXX?
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DATE _____

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P 916.558.1900 F 916.558.1919
www.lionakis.com

CONSULTANT



INTEGRAL

427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
www.integralgroup.com

SEAL

PROJECT
**PUBLIC SAFETY COMPLEX /
ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

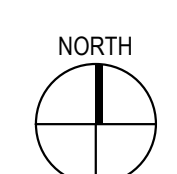
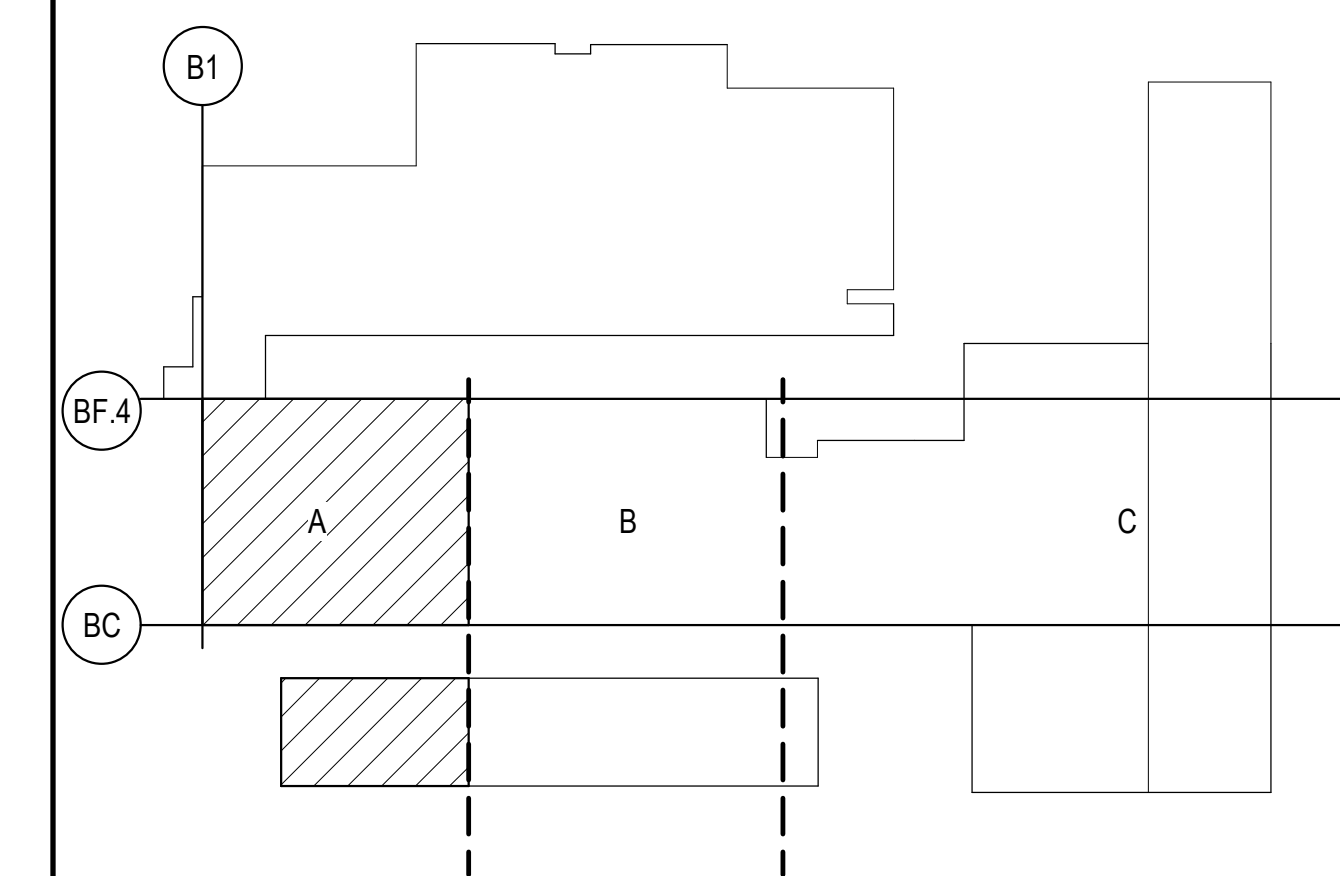
CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?00000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
LIONAKIS PROJECT NO: 019051
CLIENT PROJECT NO: -
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KEY PLAN



TITLE
**BUILDING B - POWER
PARTIAL FLOOR PLAN -
AREA A**

SHEET
EB-311A

0 1/4" = 1'-0"

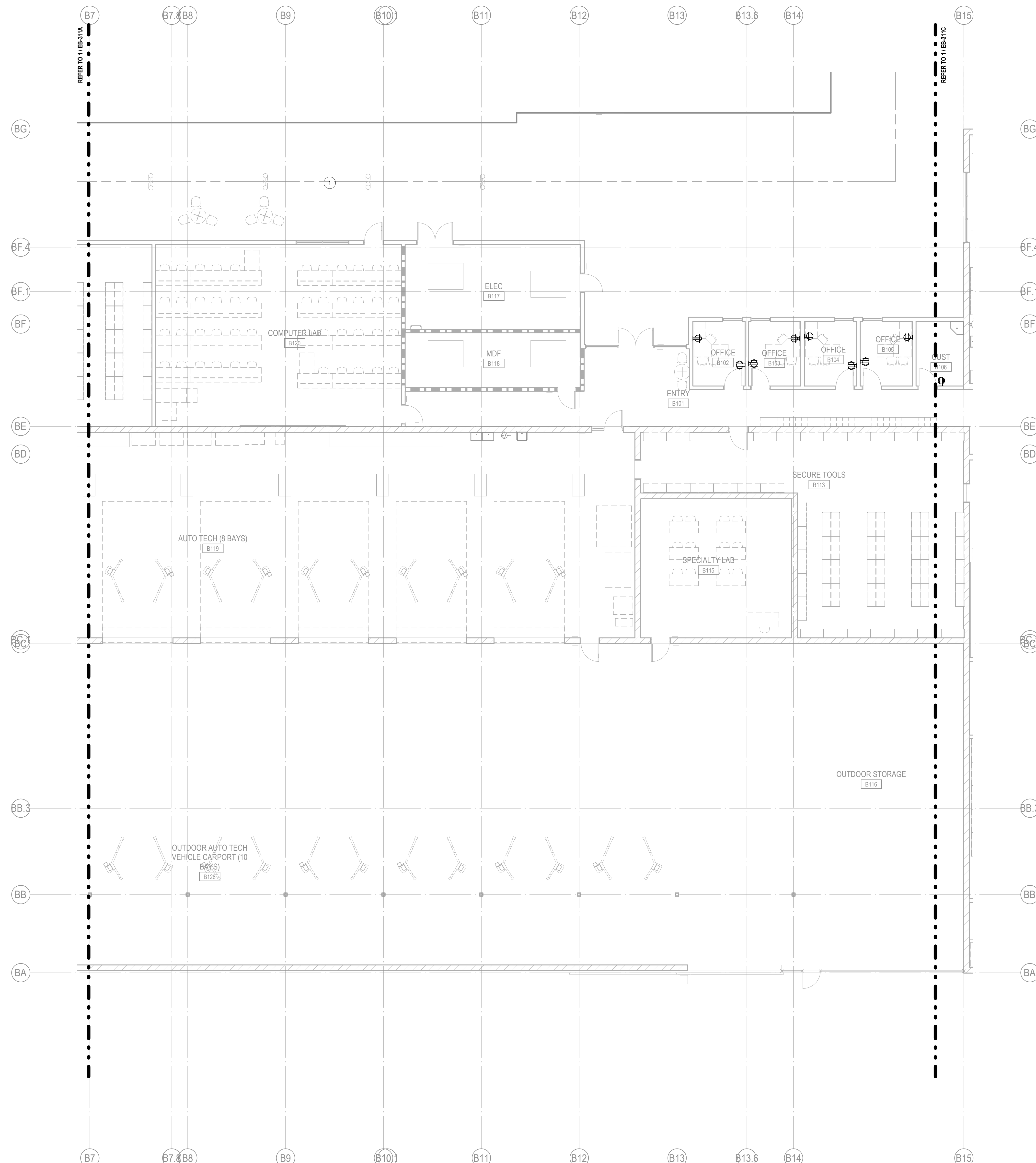
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1/17/2020 3:12:27 PM



1 BUILDING B - POWER PARTIAL FLOOR PLAN - AREA B
1/8" = 1'-0"

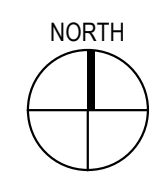
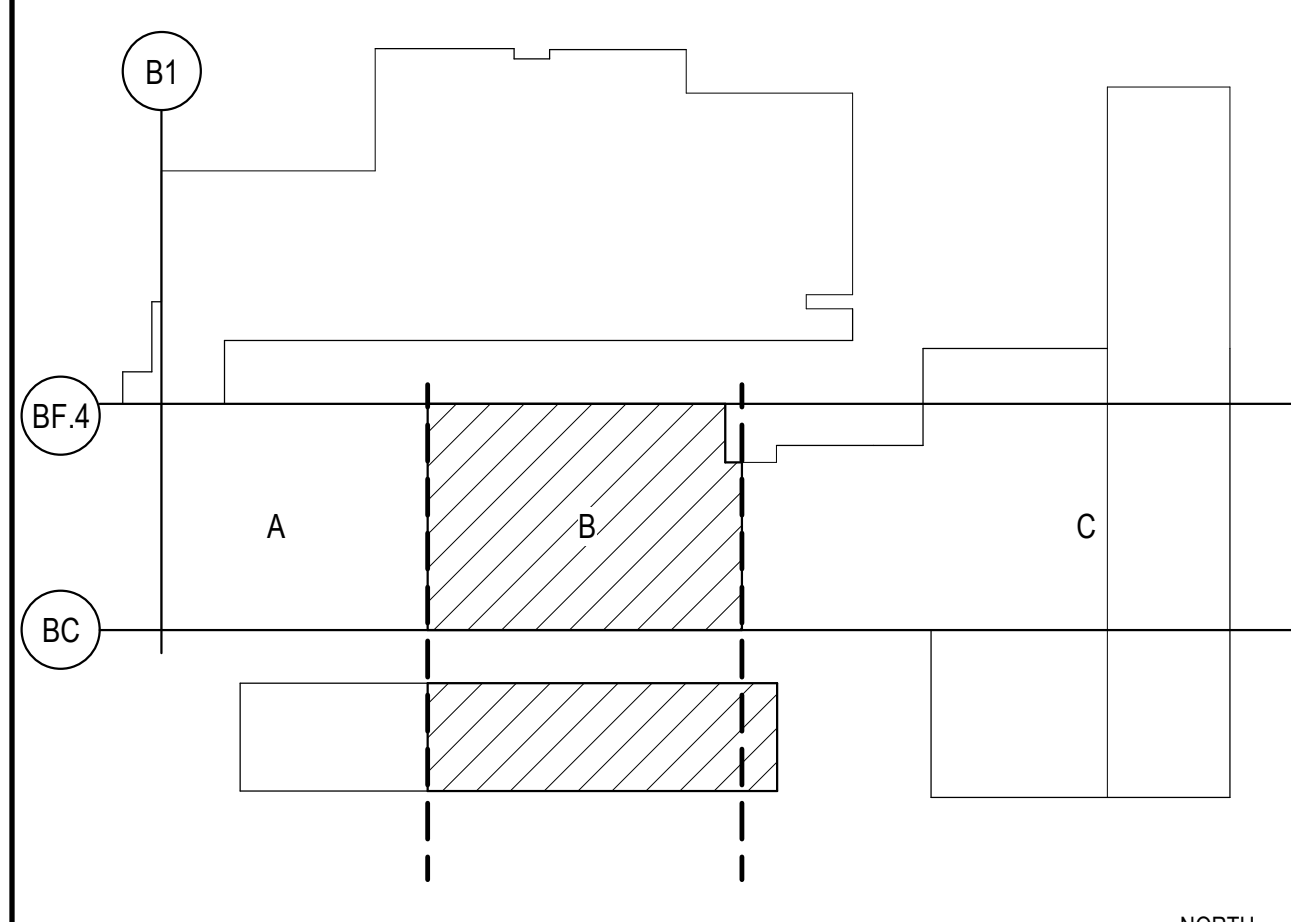
GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.
- B. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECT'S PAINTING SECTION FOR REQUIREMENTS.
- C. STUB A MINIMUM OF 4 SPARE 3/4" CONDUITS FROM ALL NEW RECESSED PANELBOARDS TO ACCESSIBLE CEILING LOCATION.
- D. SEE EQUIPMENT SCHEDULE, SINGLE LINE DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTIONS.
- E. PROVIDE POWER 120V/24V TRANSFORMER AS REQUIRED TO POWER VAV/RY-PASS DAMPERS, RESTROOM PLUMBING CONTROLS, DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS AND FIRE SMOKE DAMPERS FOR MECHANICAL EQUIPMENT. SEE DIAGRAMS ON MECHANICAL AND PLUMBING DRAWINGS FOR CONNECTION TO MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE CIRCUIT FORM NEAREST AVAILABLE PANEL, UNLESS OTHERWISE NOTED.
- F. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- G. REFER TO DATATELECOM, AUDIO-VISUAL AND SECURITY PLANS FOR ALL ITEMS, LOCATIONS, DEVICES AND EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO ALL CONDUITS AND JUNCTION BOXES.

SHEET NOTES

- 1. EQUIPMENT CONNECTIONS IN AUTO TECH AREA TO BE COORDINATED IN DD.
- 2. BBB
- 3. CCC

KEY PLAN



FILE NO. ?XX-XXXX?
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
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LIONAKIS

1919 Nineteenth Street
 Sacramento CA 95811
 P 916.558.1900 F 916.558.1919
 www.lionakis.com

CONSULTANT

INTEGRAL

427 13th Street
 Oakland, CA 94612
 510.663.2070 Telephone
 E-Mail: info@integralgroup.com
 www.integralgroup.com

SEAL

PROJECT
**PUBLIC SAFETY COMPLEX /
 ADVANCED MANUFACTURING AND
 TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: 70000007
 Building No: 9007
 OSHPD No: 7P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT

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TITLE
**BUILDING B - POWER
 PARTIAL FLOOR PLAN -
 AREA B**

SHEET
EB-311B

0 1/4" = 1'-0"

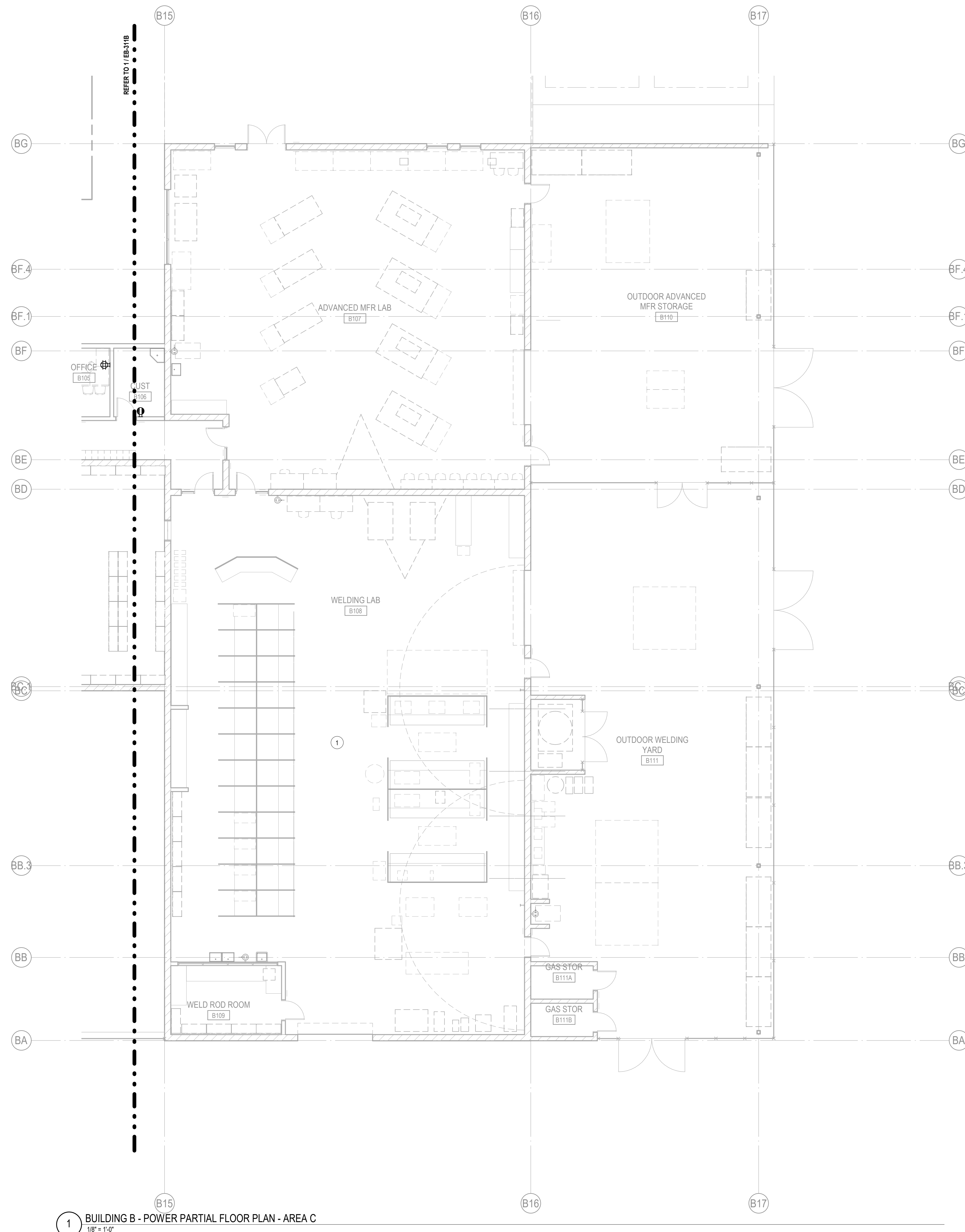
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1 BUILDING B - POWER PARTIAL FLOOR PLAN - AREA C
1/8" = 1'-0"

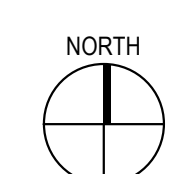
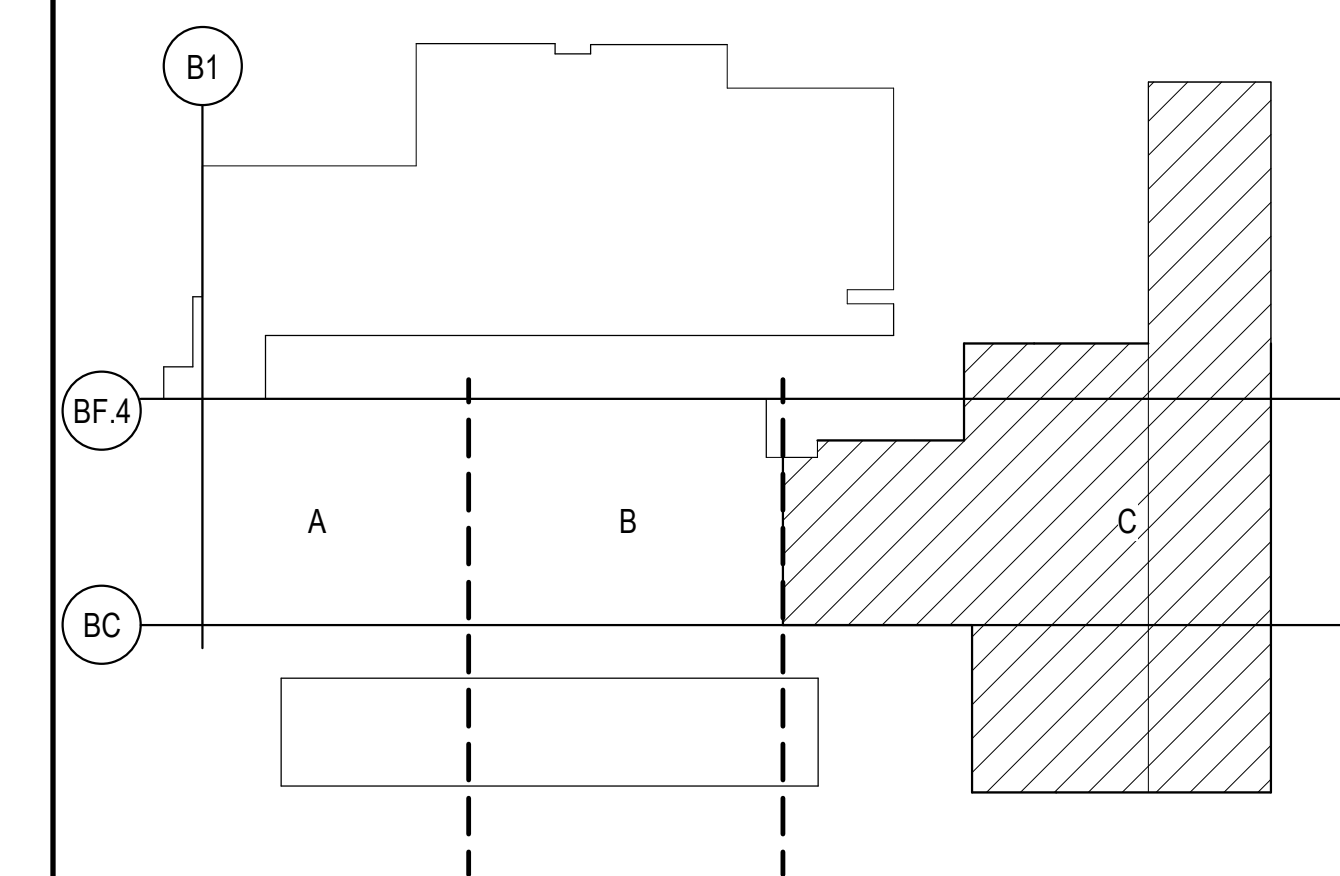
GENERAL NOTES

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- G. REFER TO DATATELECOM, AUDIO-VISUAL AND SECURITY PLANS FOR ALL ITEMS, LOCATIONS, DEVICES AND EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO ALL CONDUITS AND JUNCTION BOXES.

SHEET NOTES

- 1. EQUIPMENT CONNECTIONS IN WELDING AREA TO BE COORDINATED IN DD.
- 2. BBB
- 3. CCC

KEY PLAN



TITLE
**BUILDING B - POWER
PARTIAL FLOOR PLAN -
AREA C**

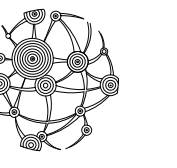
SHEET
EB-311C

FILE NO. ?XX-XXXX?

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Sacramento CA 95811
P 916.558.1900 F 916.558.1919
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427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
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SEAL

PROJECT
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TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?00000?7
Building No: ?00?7
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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CLIENT PROJECT NO: -
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0 1/4" = 1'

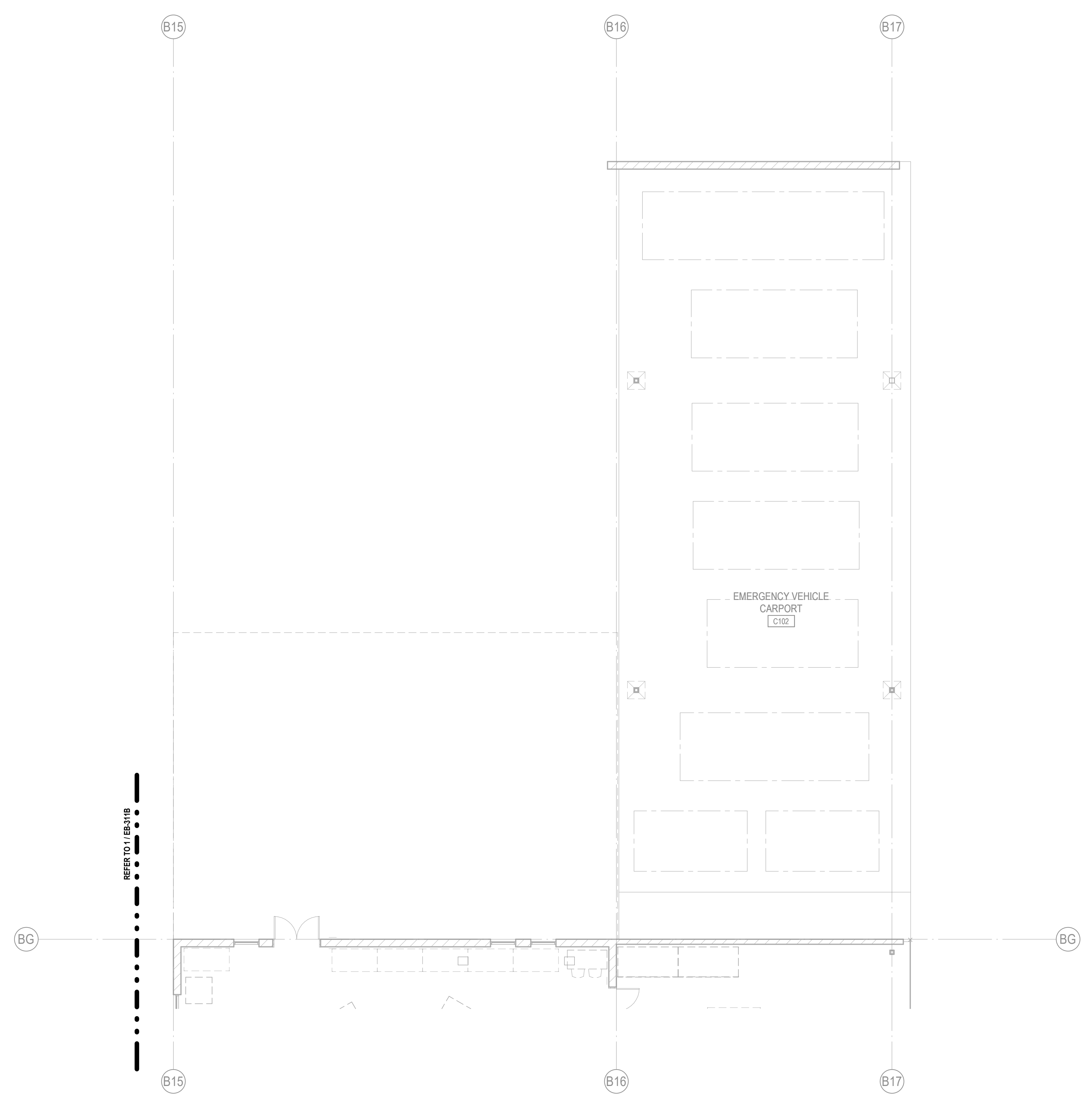
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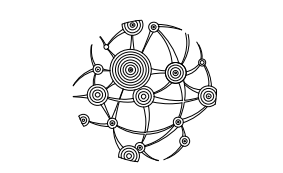
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1 BUILDING B - POWER PARTIAL FLOOR PLAN - CARPORT
1/8" = 1'-0"

FILE NO. ?XX-XXXX?
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 ?XX-XXX?
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 1919 Nineteenth Street
 Sacramento CA 95811
 P 916.558.1900 F 916.558.1919
 www.lionakis.com
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INTEGRAL
 427 13th Street
 Oakland, CA 94612
 510.663.2070 Telephone
 E-Mail: info@integralgroup.com
 www.integralgroup.com

SEAL

PROJECT
**PUBLIC SAFETY COMPLEX /
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 TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

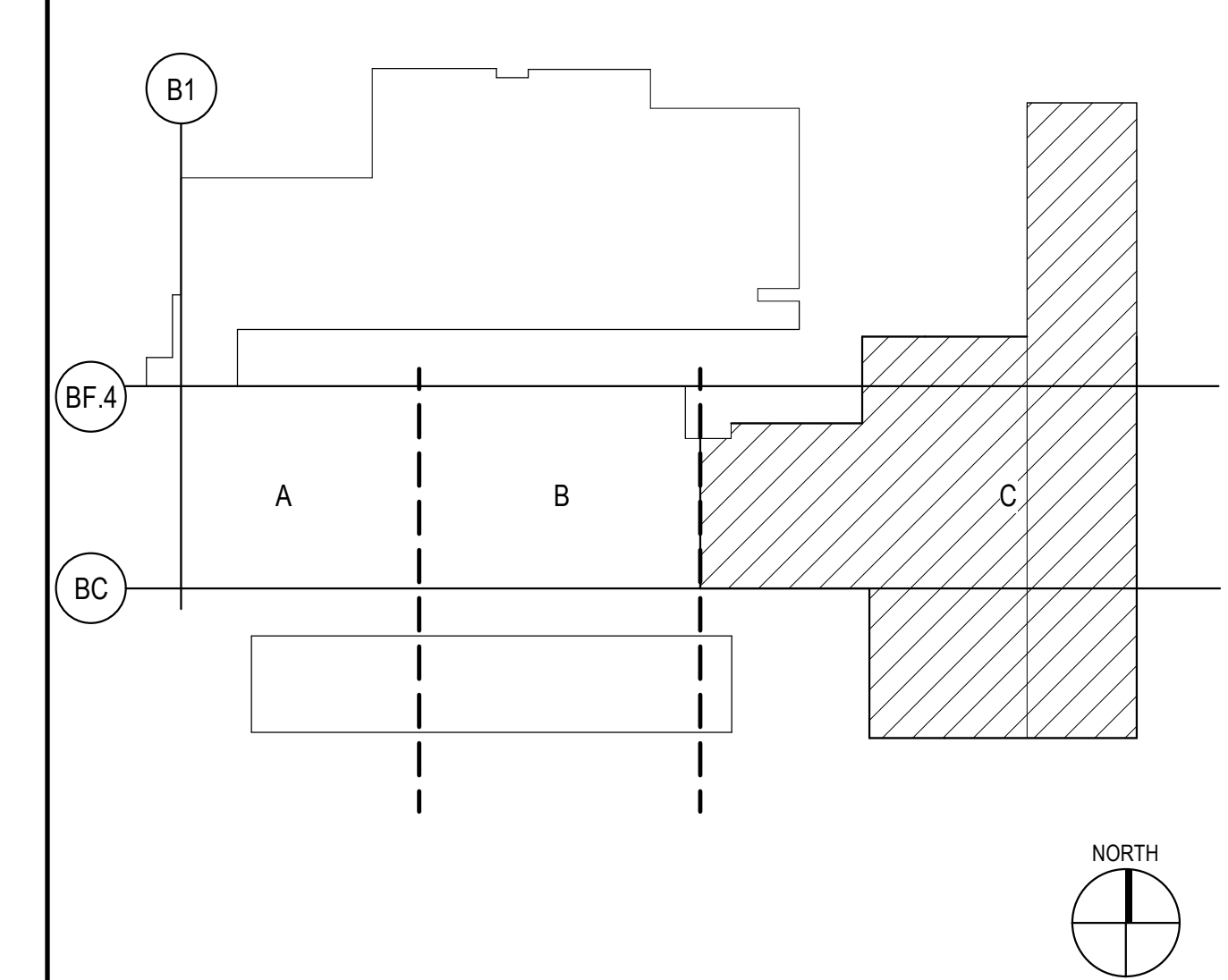
CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: ?00000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

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MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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KEY PLAN



TITLE
**BUILDING B - POWER
 PARTIAL FLOOR PLAN -
 CARPORT**

SHEET
EB-311D

0 1/4" = 1'

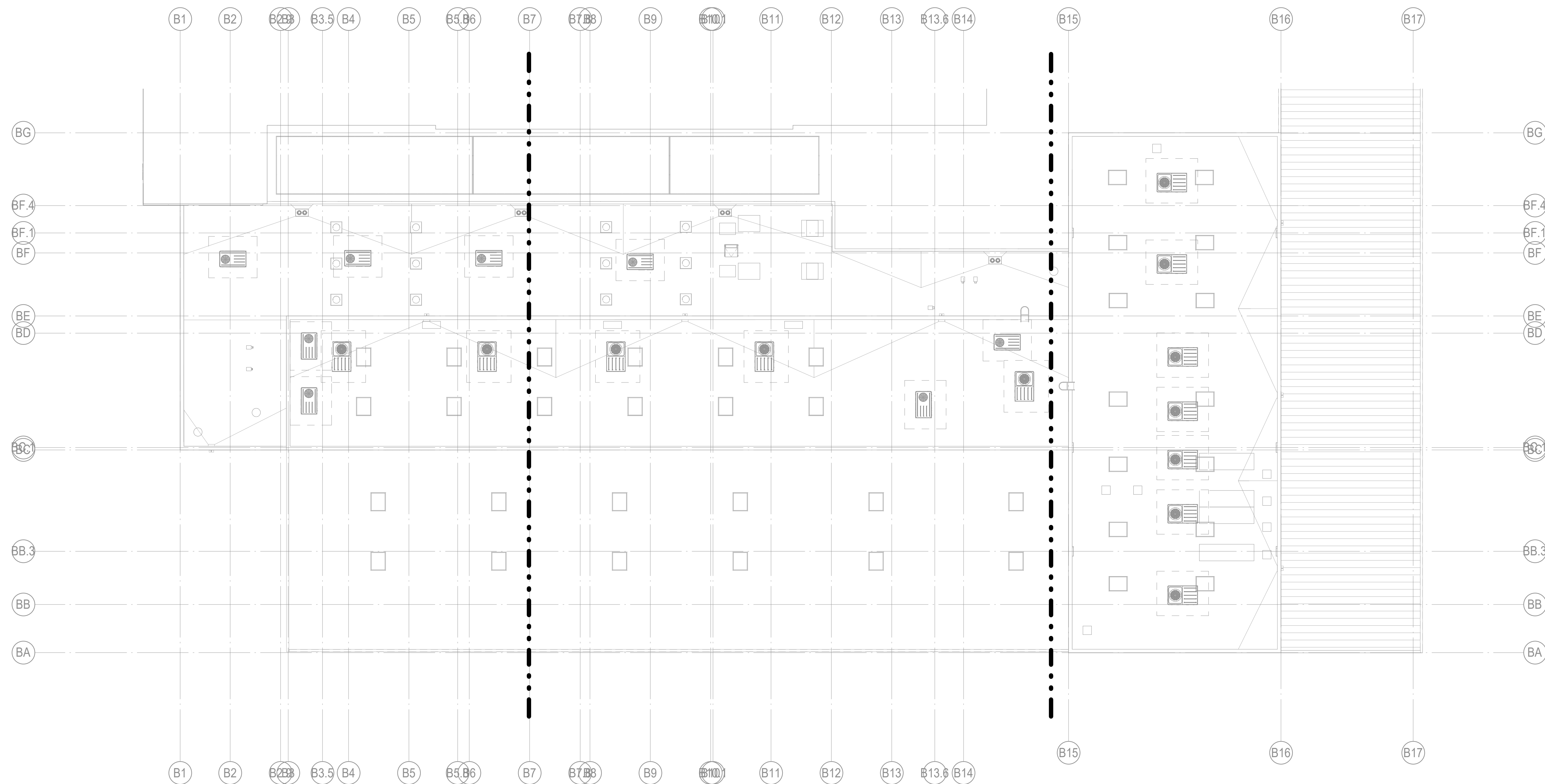
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1 BUILDING B - POWER OVERALL ROOF PLAN
1/16" = 1'-0"

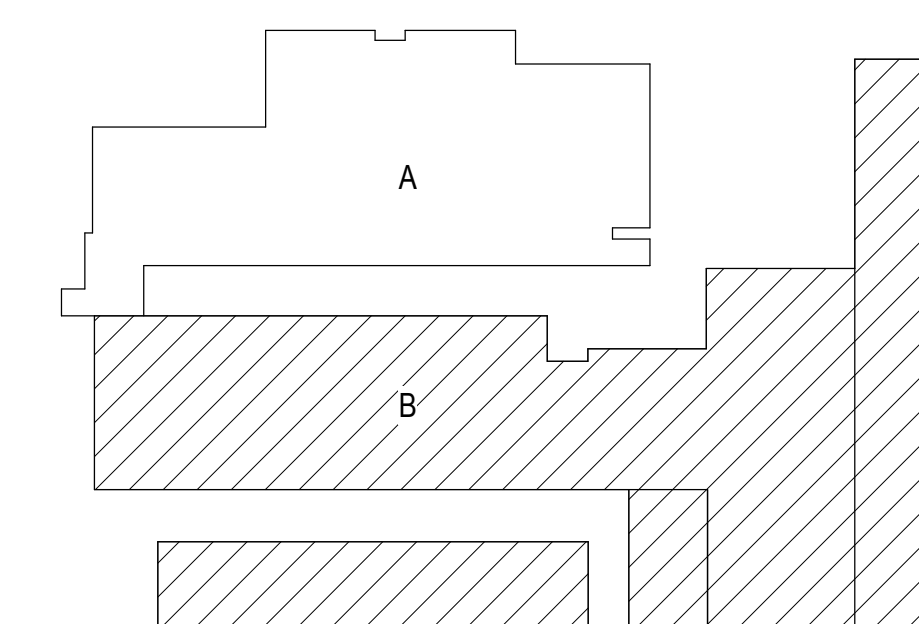
GENERAL NOTES

- A. WHERE PANELBOARDS ARE LOCATED ON FLOOR BELOW TO FEED ITEMS ON ROOF: PENETRATE ROOF FROM SPACE BELOW TO LOCATION OF DEVICE OR MOTOR. SMALL SECTIONS OF HORIZONTAL CONDUIT NOT EXCEEDING 10 FEET ARE PERMITTED WHERE:
1. INSTALLED LOCAL TO EQUIPMENT SERVED
 2. WITHIN PROXIMITY OF EQUIPMENT SERVER.
- B. USE LIQUID FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION TO EQUIPMENT. MAXIMUM LENGTH OF LIQUID TIGHT FLEXIBLE METAL CONDUIT: 6 FEET. SUPPORT PER NEC ARTICLE 350 AT 4- 12 FEET INTERVALS AND WITHIN 12 INCHES OF EACH OUTLET AND TERMINATION.
- C. MOUNT DISCONNECT SWITCHES, COMBINATION STARTERS, RECEPTACLES, AND OTHER DEVICES FREE AND INDEPENDENT OF MECHANICAL EQUIPMENT HOUSINGS EXCEPT WHERE ALL THE FOLLOWING CONDITIONS APPLY. THE DISCONNECT MAY BE MOUNTED TO THE MECHANICAL EQUIPMENT SERVED FROM THE DISCONNECT SWITCH:
1. WHERE ACCEPTABLE TO THE MECHANICAL CONTRACTOR
 2. WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION
 3. WHERE THE LOCATION PROVIDES FREE AND CLEAR FRONT ACCESS TO DEVICES AND SWITCHES FOR SERVICE AND USE
 4. WHERE THE LOCATION DOES NOT INHIBIT ACCESS TO MECHANICAL EQUIPMENT FOR SERVICE, INSPECTION, AND OPERATION.
 5. WHERE AIR FLOW PATHS ARE NOT OBSTRUCTED.
- D. ALL ROOF PENETRATIONS TO BE PERFORMED BY A LICENSED ROOFING CONTRACTOR. COORDINATE ROOF PENETRATION AND FLASHING WITH ROOFING CONTRACTOR.
- E. CONSTRUCTION OF ROOF SUPPORTS (SLEEPERS) FOR RUNS OF HORIZONTAL CONDUIT DEDICATED TO EQUIPMENT SERVED TO BE BY LICENSED ROOFING CONTRACTOR AND ATTACHED TO ROOF STRUCTURE.
- F. SECURE CONDUIT TO SUPPORTS AT CODE REQUIRED INTERVALS.
- G. ROOF PENETRATIONS MATERIALS AND CONSTRUCTION BY LICENSED ROOFING CONTRACTOR. SEE ARCHITECTURAL DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.
- H. VERIFY EXACT LOCATION, LAYOUT AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- I. REFER TO CONTROLS CONTRACTOR WHERE REQUIRED FOR ALL CONDUIT REQUIREMENTS.
- J. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT POWER POINT OF CONNECTION TO ALL UNITS AND LOCATE DISCONNECT WHERE CODE REQUIRE CLEARANCES WILL BE MAINTAINED. LOCATION OF DISCONNECT ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE FLOOR PEDESTALS OR UNISTRUT AT THE AC ENCLOSURE FOR MOUNTING OD DISCONNECT.
- K. FIRE ALARM DEVICES, DAMPERS, SMOKE DETECTORS AND REQUIRED CONTROLS POWER SHALL BE COORDINATED WITH HVAC AND FIRE ALARM SYSTEM INSTALLER.

SHEET NOTES

1. AAA
2. BBB
3. CCC

KEY PLAN



TITLE
BUILDING B - POWER OVERALL ROOF PLAN

SHEET
EB-321

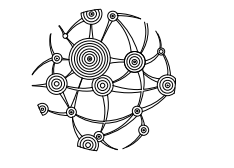
FILE NO. ?XX-XXXX?

IDENTIFICATION STAMP
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CONSULTANT



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427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
www.integralgroup.com

SEAL

PROJECT
PUBLIC SAFETY COMPLEX / ADVANCED MANUFACTURING AND TRANSPORTATION PROJECT

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?00000X?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
LIONAKIS PROJECT NO: 019051
CLIENT PROJECT NO: -
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0 1/4" = 1'

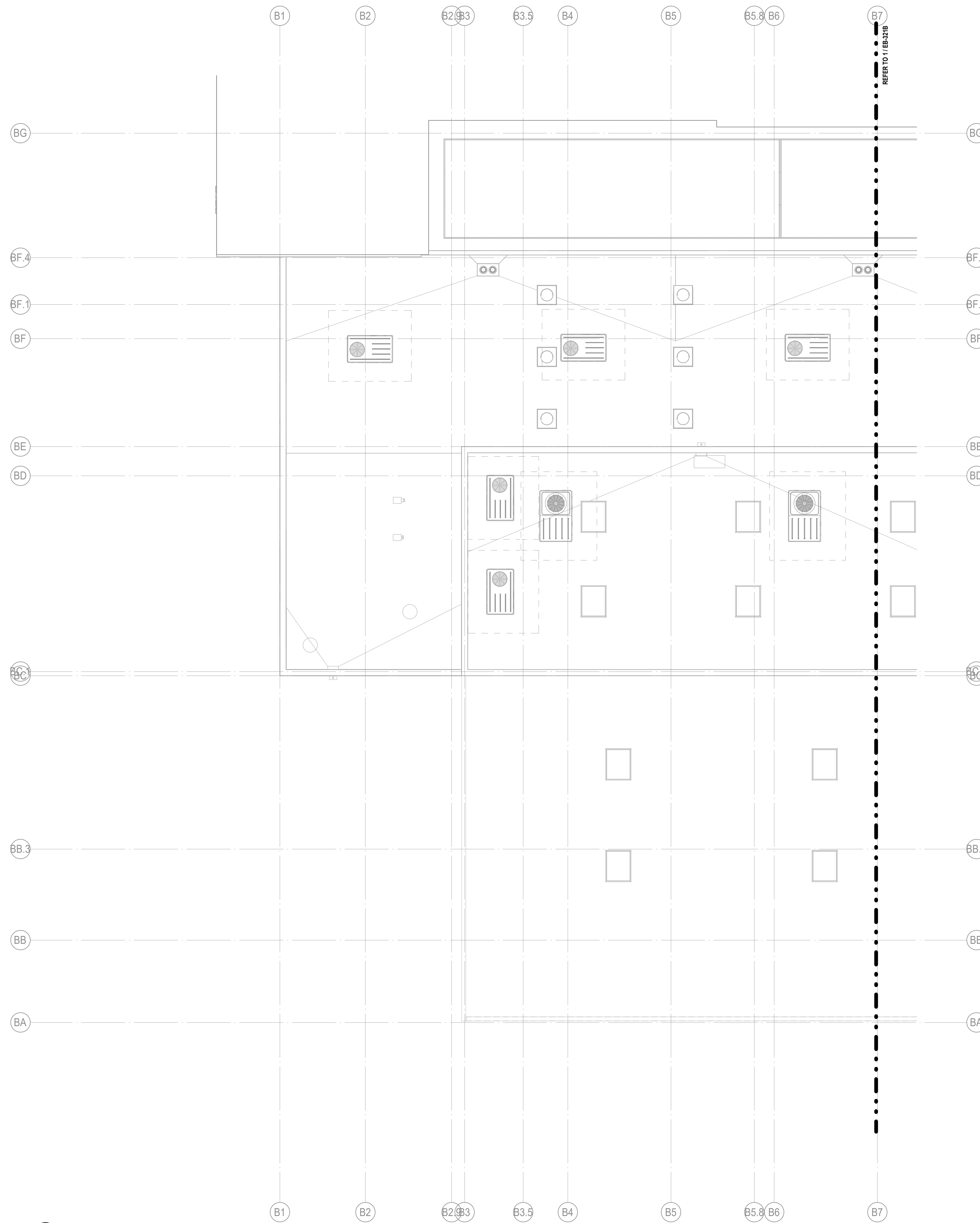
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1 BUILDING B - POWER PARTIAL ROOF PLAN - AREA A
1/8" = 1'-0"

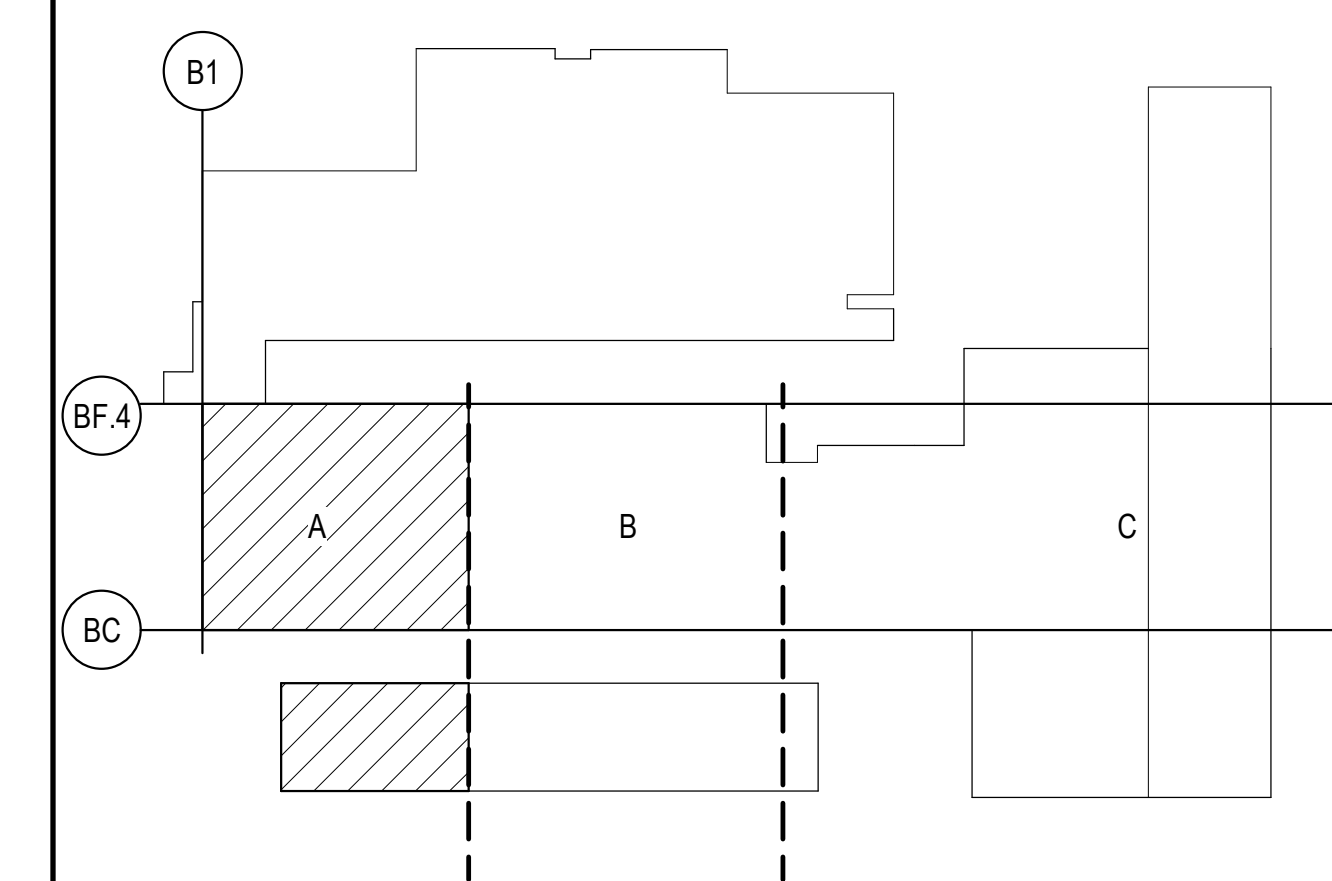
GENERAL NOTES

- A. WHERE PANELBOARDS ARE LOCATED ON FLOOR BELOW TO FEED ITEMS ON ROOF: PENETRATE ROOF FROM SPACE BELOW TO LOCATION OF DEVICE OR MOTOR. SMALL SECTIONS OF HORIZONTAL CONDUIT NOT EXCEEDING 10 FEET ARE PERMITTED WHERE:
1. INSTALLED LOCAL TO EQUIPMENT SERVED
 2. WITHIN PROXIMITY OF EQUIPMENT SERVER.
- B. USE LIQUID FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION TO EQUIPMENT. MAXIMUM LENGTH OF LIQUID TIGHT FLEXIBLE METAL CONDUIT: 6 FEET. SUPPORT PER NEC ARTICLE 350 AT 4- 12 FEET INTERVALS AND WITHIN 12 INCHES OF EACH OUTLET AND TERMINATION.
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 4. WHERE THE LOCATION DOES NOT INHIBIT ACCESS TO MECHANICAL EQUIPMENT FOR SERVICE, INSPECTION, AND OPERATION.
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SHEET NOTES

1. AAA
2. BBB
3. CCC

KEY PLAN



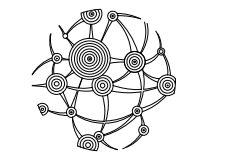
FILE NO. ?XX-XXXX?

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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AC _____ FLS _____ SS _____
DATE _____

LIONAKIS

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Sacramento CA 95811
P 916.558.1900 F 916.558.1919
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427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
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SEAL

PROJECT
**PUBLIC SAFETY COMPLEX /
ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?00000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
LIONAKIS PROJECT NO: 019051
CLIENT PROJECT NO: -
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TITLE
**BUILDING B - POWER
PARTIAL ROOF PLAN -
AREA A**

SHEET
EB-321A

0 1/4" = 1'

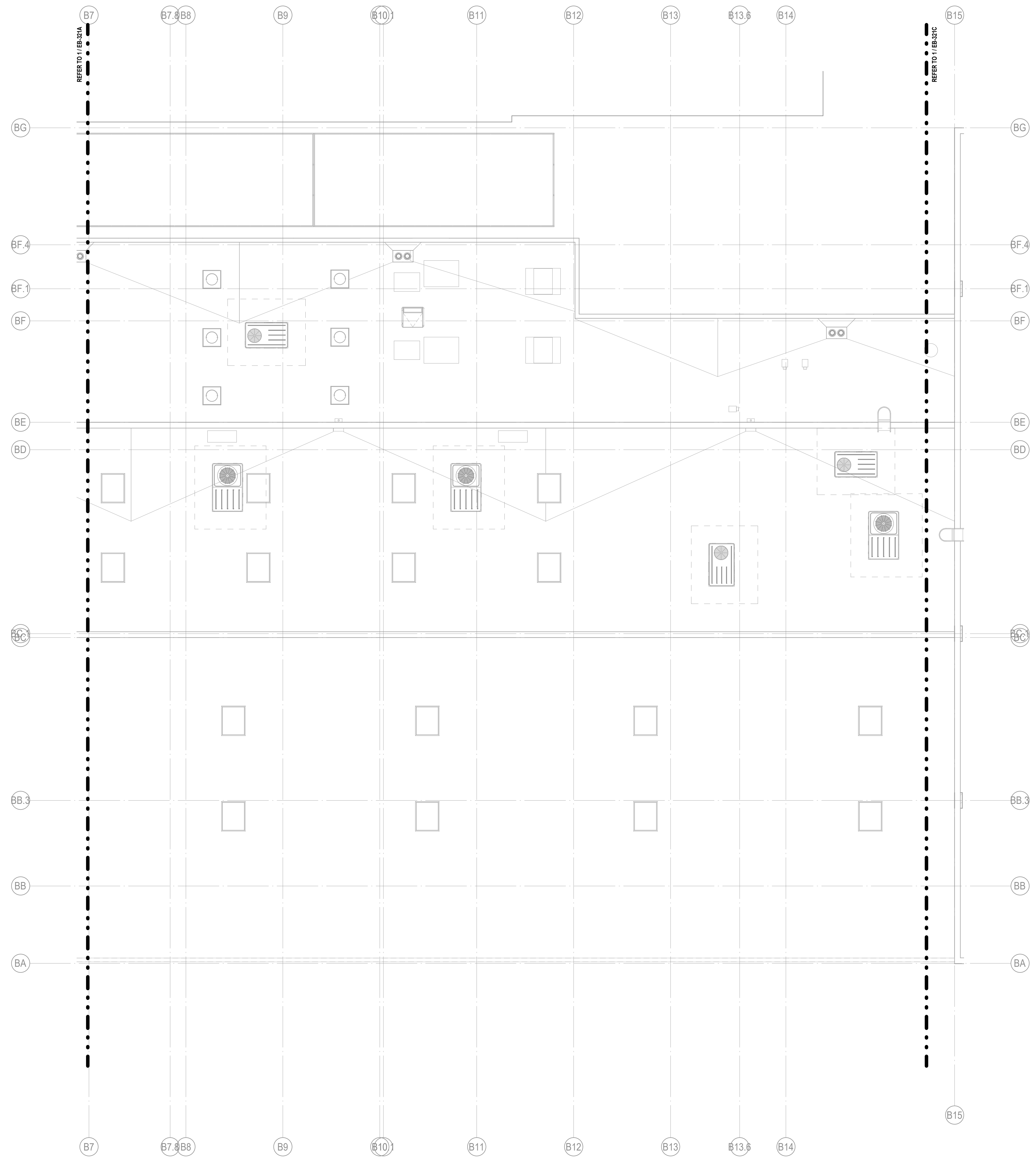
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1 BUILDING B - POWER PARTIAL ROOF PLAN - AREA B
1/8" = 1'-0"

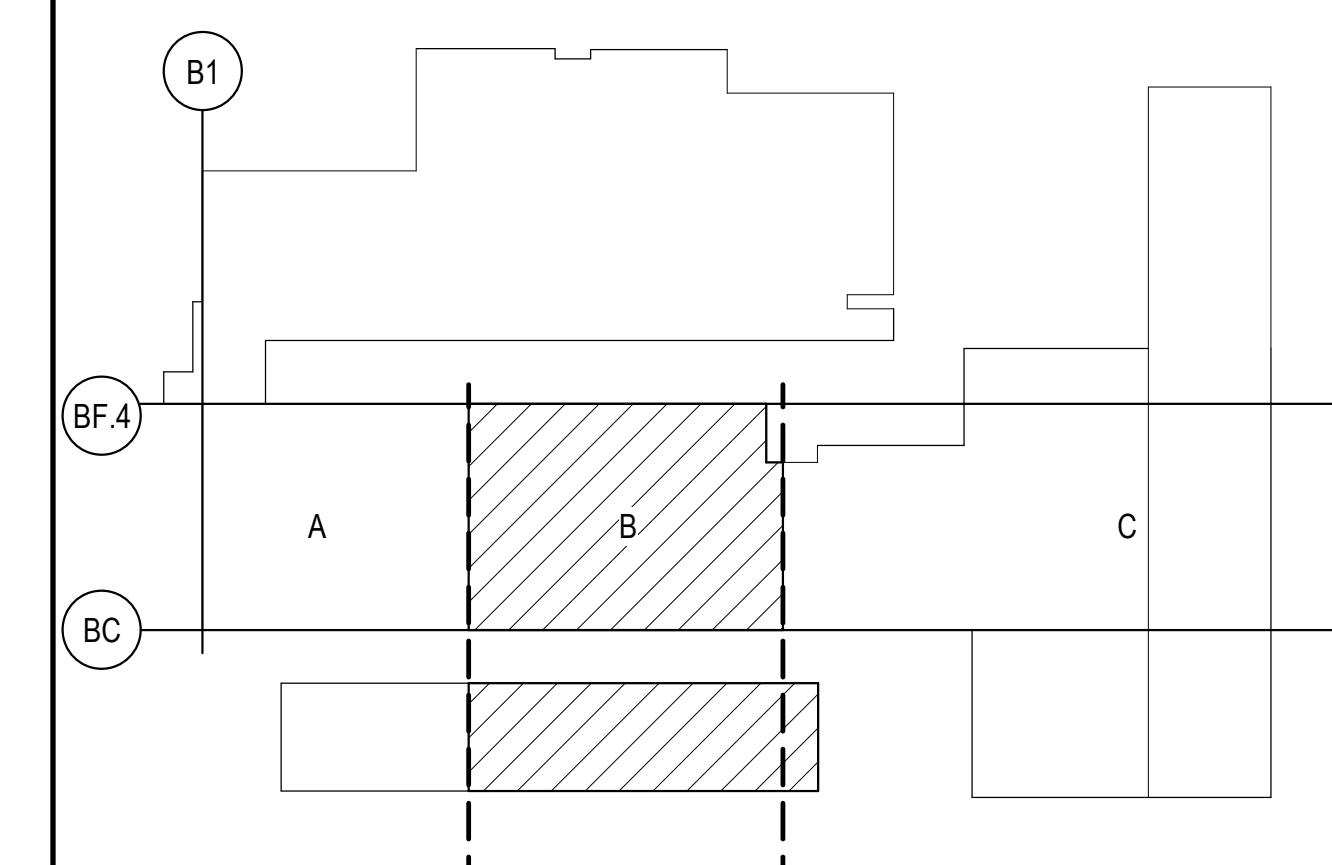
GENERAL NOTES

- A. WHERE PANELBOARDS ARE LOCATED ON FLOOR BELOW TO FEED ITEMS ON ROOF: PENETRATE ROOF FROM SPACE BELOW TO LOCATION OF DEVICE OR MOTOR. SMALL SECTIONS OF HORIZONTAL CONDUIT NOT EXCEEDING 10 FEET ARE PERMITTED WHERE:
 - 1. INSTALLED LOCAL TO EQUIPMENT SERVED
 - 2. WITHIN PROXIMITY OF EQUIPMENT SERVER.
- B. USE LIQUID FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION TO EQUIPMENT. MAXIMUM LENGTH OF LIQUID TIGHT FLEXIBLE METAL CONDUIT: 6 FEET. SUPPORT PER NEC ARTICLE 350 AT 4- 12 FEET INTERVALS AND WITHIN 12 INCHES OF EACH OUTLET AND TERMINATION.
- C. MOUNT DISCONNECT SWITCHES, COMBINATION STARTERS, RECEPTACLES, AND OTHER DEVICES FREE AND INDEPENDENT OF MECHANICAL EQUIPMENT HOUSINGS EXCEPT WHERE ALL THE FOLLOWING CONDITIONS APPLY, THE DISCONNECT MAY BE MOUNTED TO THE MECHANICAL EQUIPMENT SERVED FROM THE DISCONNECT SWITCH:
 - 1. WHERE ACCEPTABLE TO THE MECHANICAL CONTRACTOR
 - 2. WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION
 - 3. WHERE THE LOCATION PROVIDES FREE AND CLEAR FRONT ACCESS TO DEVICES AND SWITCHES FOR SERVICE AND USE
 - 4. WHERE THE LOCATION DOES NOT INHIBIT ACCESS TO MECHANICAL EQUIPMENT FOR SERVICE, INSPECTION, AND OPERATION
 - 5. WHERE AIR FLOW PATHS ARE NOT OBSTRUCTED.
- D. ALL ROOF PENETRATIONS TO BE PERFORMED BY A LICENSED ROOFING CONTRACTOR. COORDINATE ROOF PENETRATION AND FLASHING WITH ROOFING CONTRACTOR.
- E. CONSTRUCTION OF ROOF SUPPORTS (SLEEPERS) FOR RUNS OF HORIZONTAL CONDUIT DEDICATED TO EQUIPMENT SERVED TO BE BY LICENSED ROOFING CONTRACTOR AND ATTACHED TO ROOF STRUCTURE.
- F. SECURE CONDUIT TO SUPPORTS AT CODE REQUIRED INTERVALS.
- G. ROOF PENETRATIONS MATERIALS AND CONSTRUCTION BY LICENSED ROOFING CONTRACTOR. SEE ARCHITECTURAL DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.
- H. VERIFY EXACT LOCATION, LAYOUT AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- I. REFER TO CONTROLS CONTRACTOR WHERE REQUIRED FOR ALL CONDUIT REQUIREMENTS.
- J. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT POWER POINT OF CONNECTION TO ALL UNITS AND LOCATE DISCONNECT WHERE CODE REQUIRE CLEARANCES WILL BE MAINTAINED. LOCATION OF DISCONNECT ARE DIAGRAMMATIC, CONTRACTOR SHALL PROVIDE FLOOR PEDESTALS OR UNISTRUT AT THE AC ENCLOSURE FOR MOUNTING OF DISCONNECT.
- K. FIRE ALARM DEVICES, DAMPERS, SMOKE DETECTORS AND REQUIRED CONTROLS POWER SHALL BE COORDINATED WITH HVAC AND FIRE ALARM SYSTEM INSTALLER.

SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN

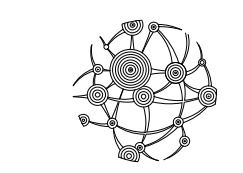


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 P 916.558.1900 F 916.558.1919
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INTEGRAL

427 13th Street
 Oakland, CA 94612
 510.663.2070 Telephone
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 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

CLIENT
 CHABOT-LAS POSITAS COMMUNITY
 COLLEGE DISTRICT
 7600 DUBLIN BLVD
 DUBLIN, CA 94568

Facility No: 700000X?
 Building No: 900?
 OSHPD No: 7P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

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TITLE
**BUILDING B - POWER
 PARTIAL ROOF PLAN -
 AREA B**

SHEET
EB-321B

0 1/4" = 1'-0"

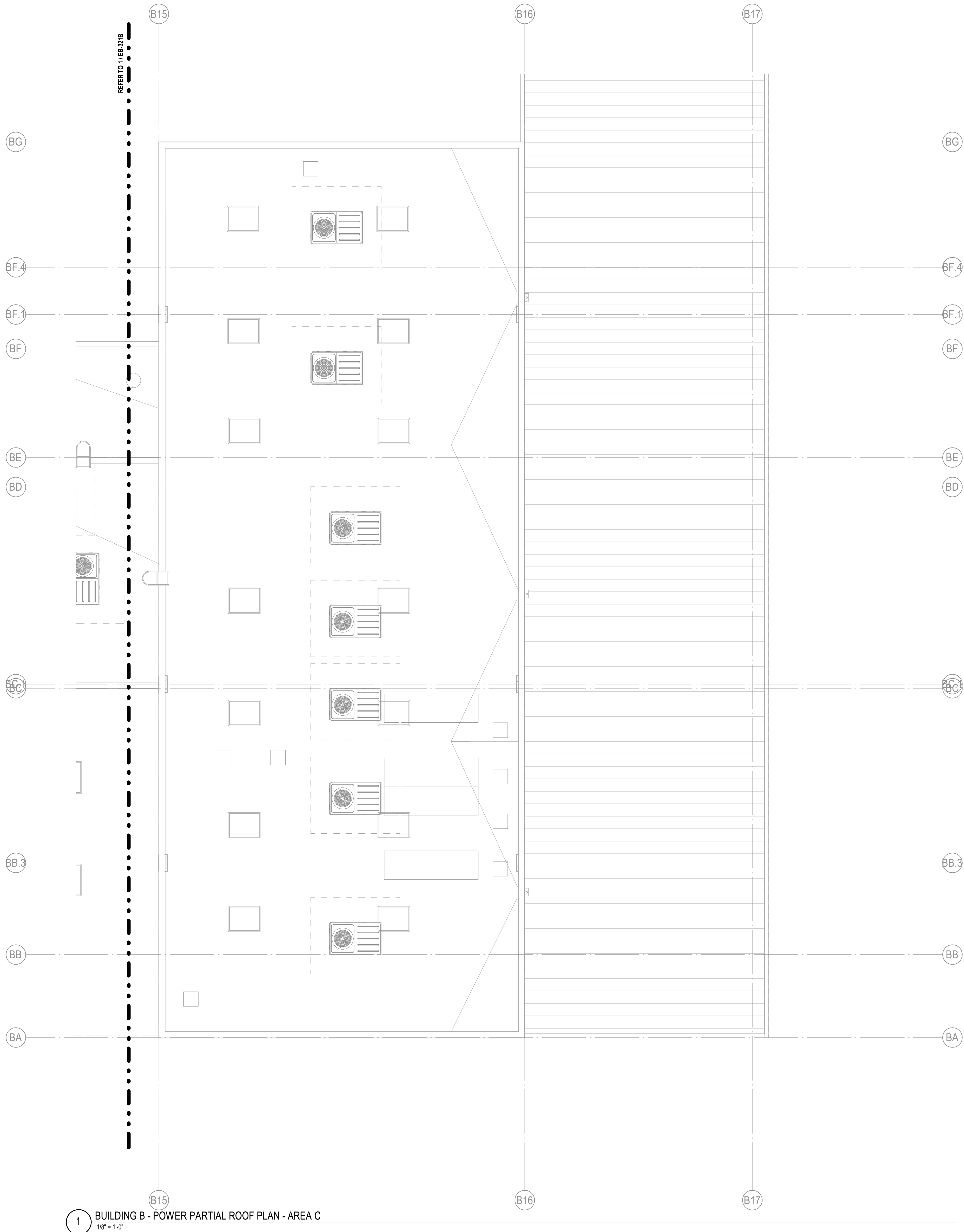
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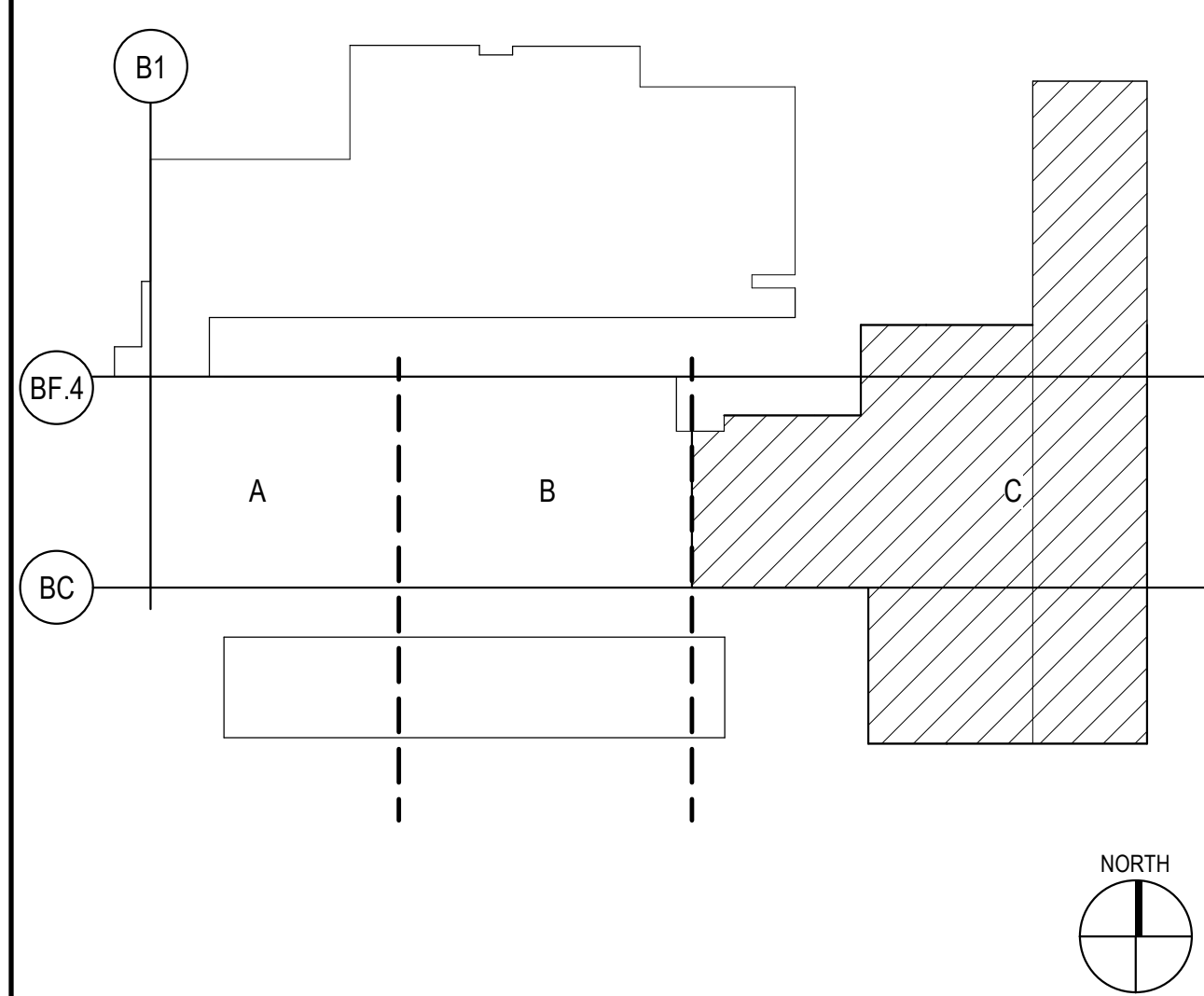
GENERAL NOTES

- A. WHERE PANELBOARDS ARE LOCATED ON FLOOR BELOW TO FEED ITEMS ON ROOF: PENETRATE ROOF FROM SPACE BELOW TO LOCATION OF DEVICE OR MOTOR. SMALL SECTIONS OF HORIZONTAL CONDUIT NOT EXCEEDING 10 FEET ARE PERMITTED WHERE:
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SHEET NOTES

- 1. AAA
- 2. BBB
- 3. CCC

KEY PLAN



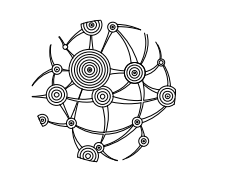
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 510.663.2070 Telephone
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 COLLEGE DISTRICT
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 DUBLIN, CA 94568

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 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
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 CLIENT PROJECT NO: -
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TITLE
**BUILDING B - POWER
 PARTIAL ROOF PLAN -
 AREA C**

SHEET
EB-321C

0 1/4" = 1'

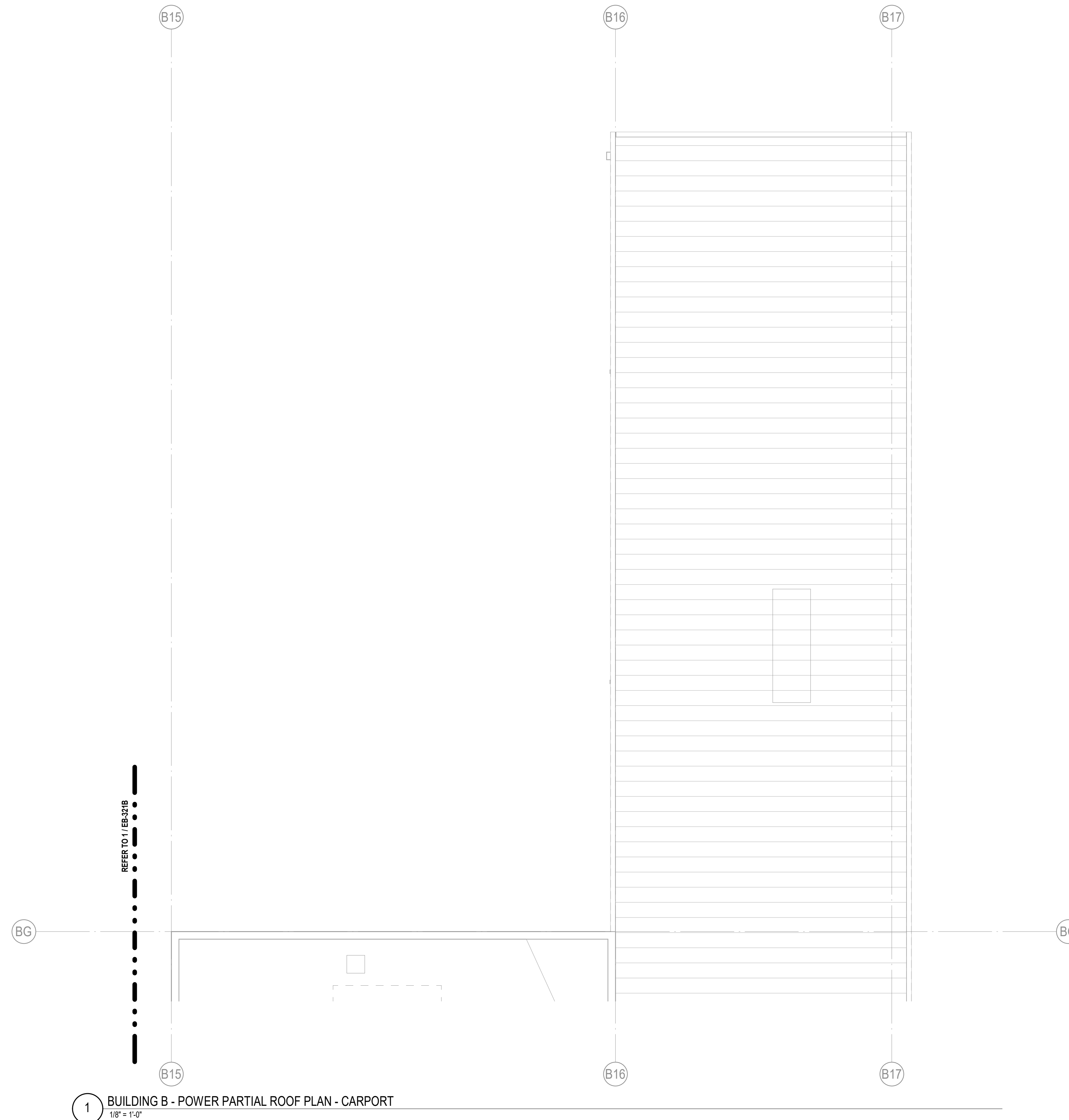
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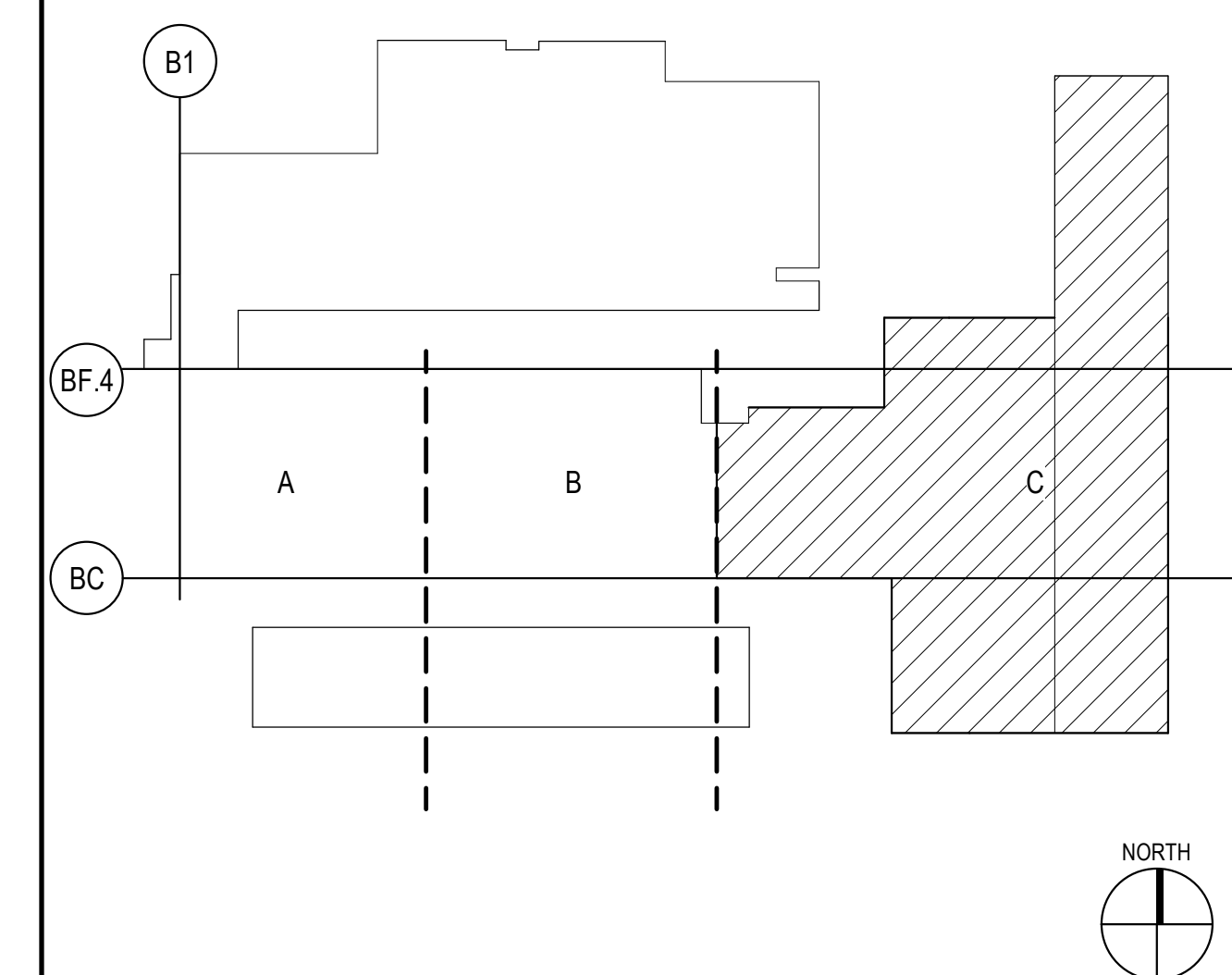
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KEY PLAN



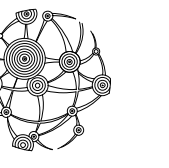
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 510.663.2070 Telephone
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 DUBLIN, CA 94568

Facility No: ?00000?
 Building No: ?00?
 OSHPD No: ?P-2016-XXXXXX?

MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT

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TITLE

**BUILDING B - POWER
 PARTIAL ROOF PLAN -
 CARPORT**

SHEET

EB-321D

0 1/4" 1/2" 1"

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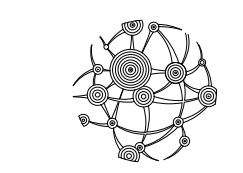
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 Oakland, CA 94612
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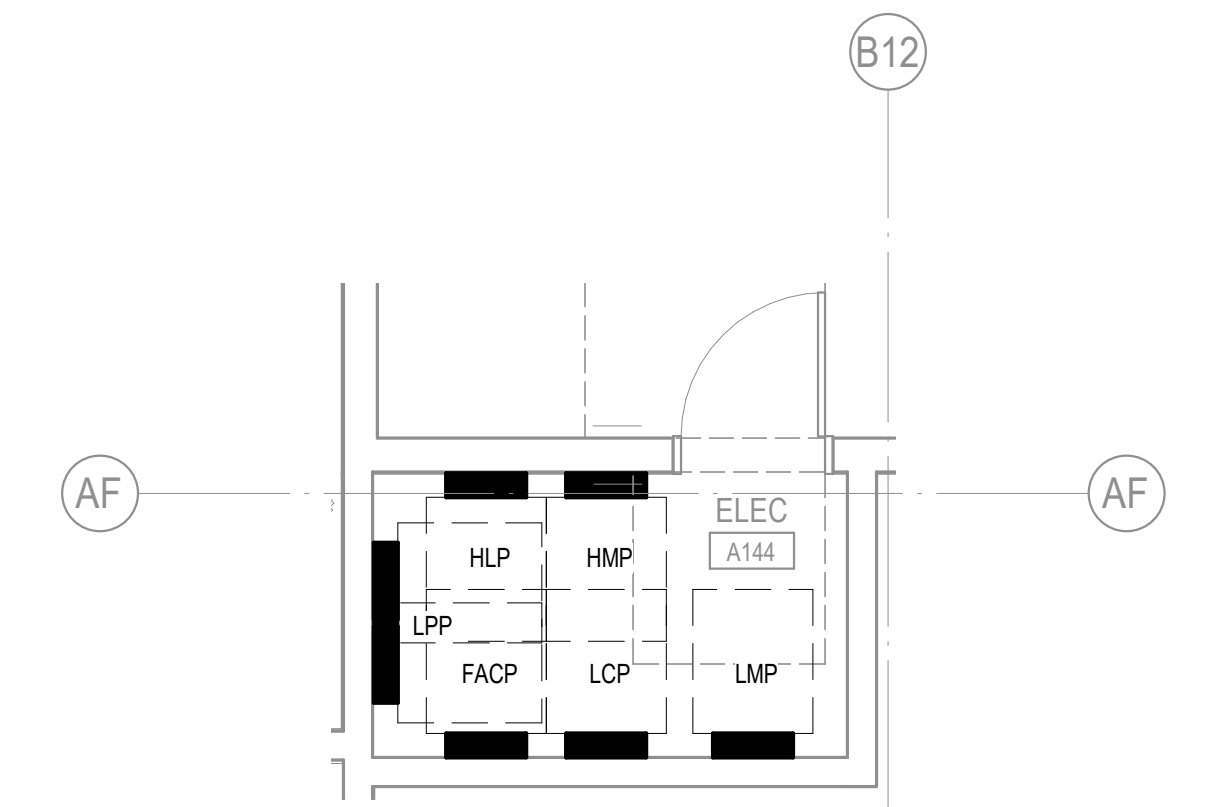
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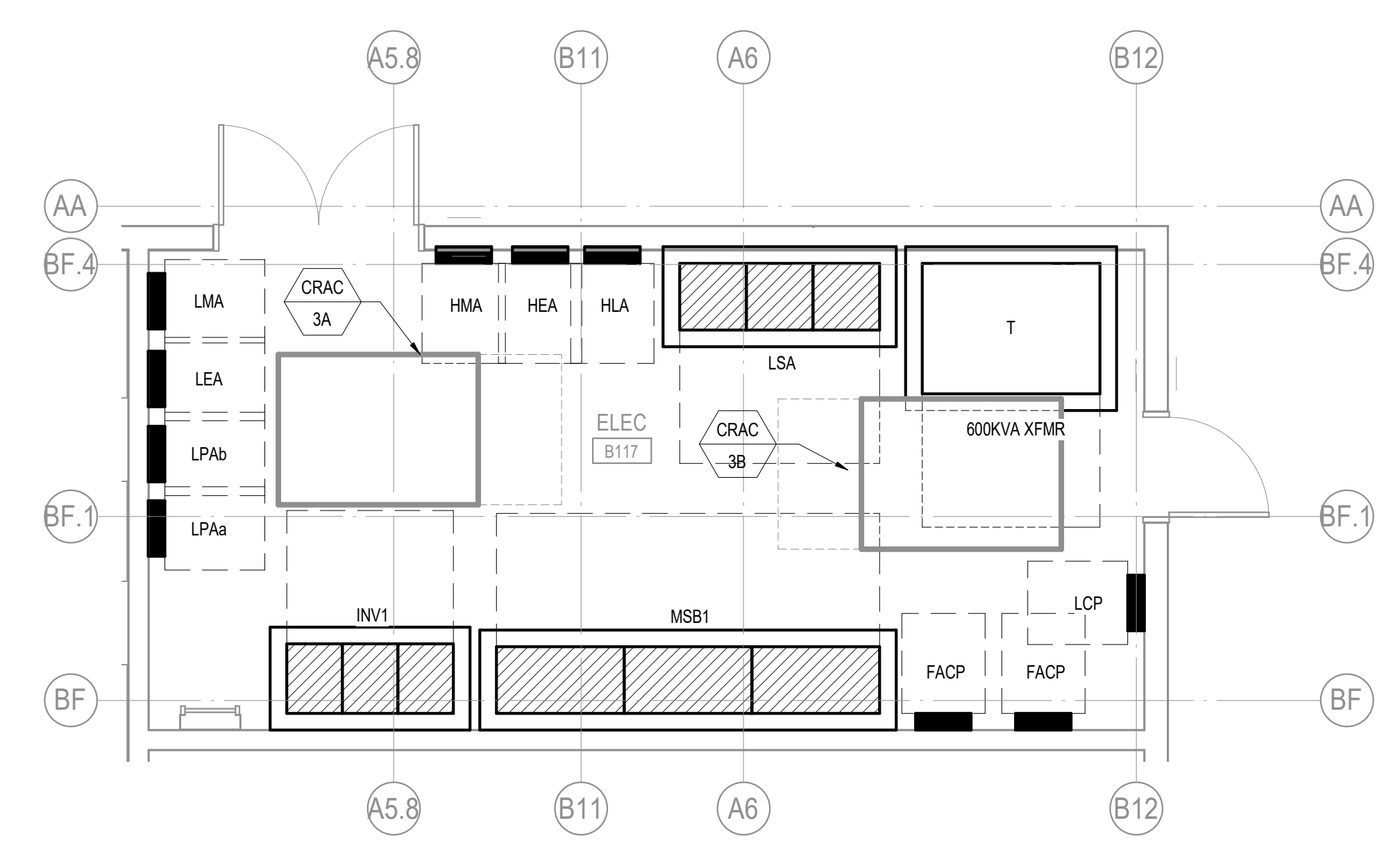
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TITLE
**ELECTRICAL ENLARGED
 PLANS**

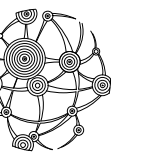
SHEET
E-401



2 ELEC A144
 1/4" = 1'-0"

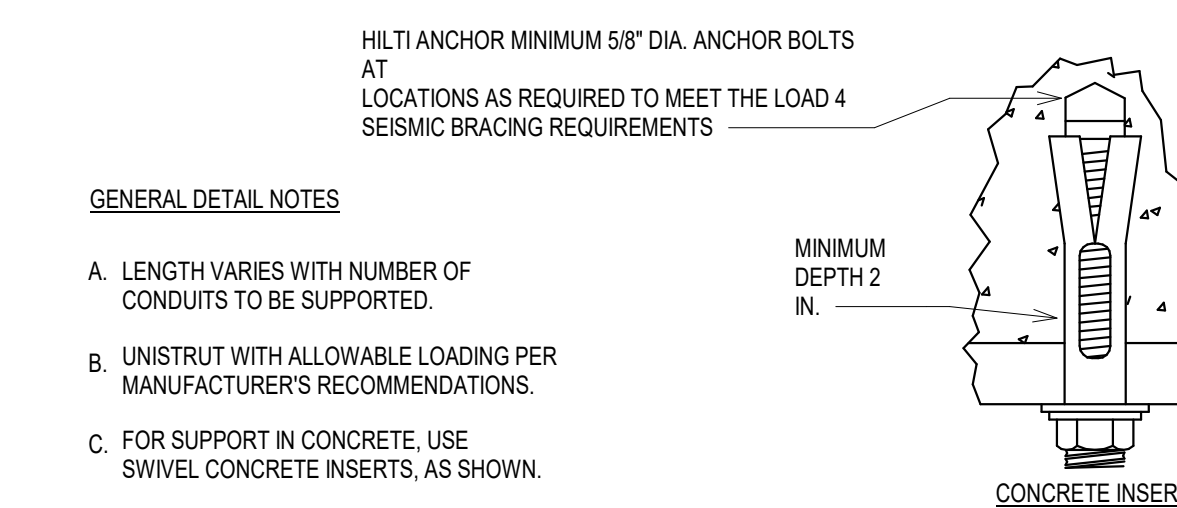
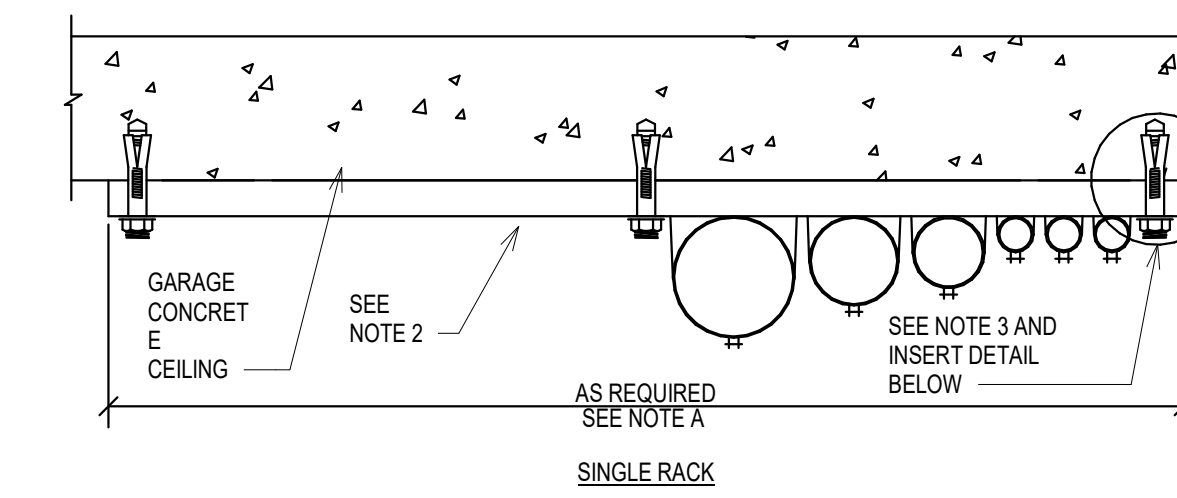


1 MAIN ELECTRICAL ROOM B117
 1/4" = 1'-0"



ISSUED		
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

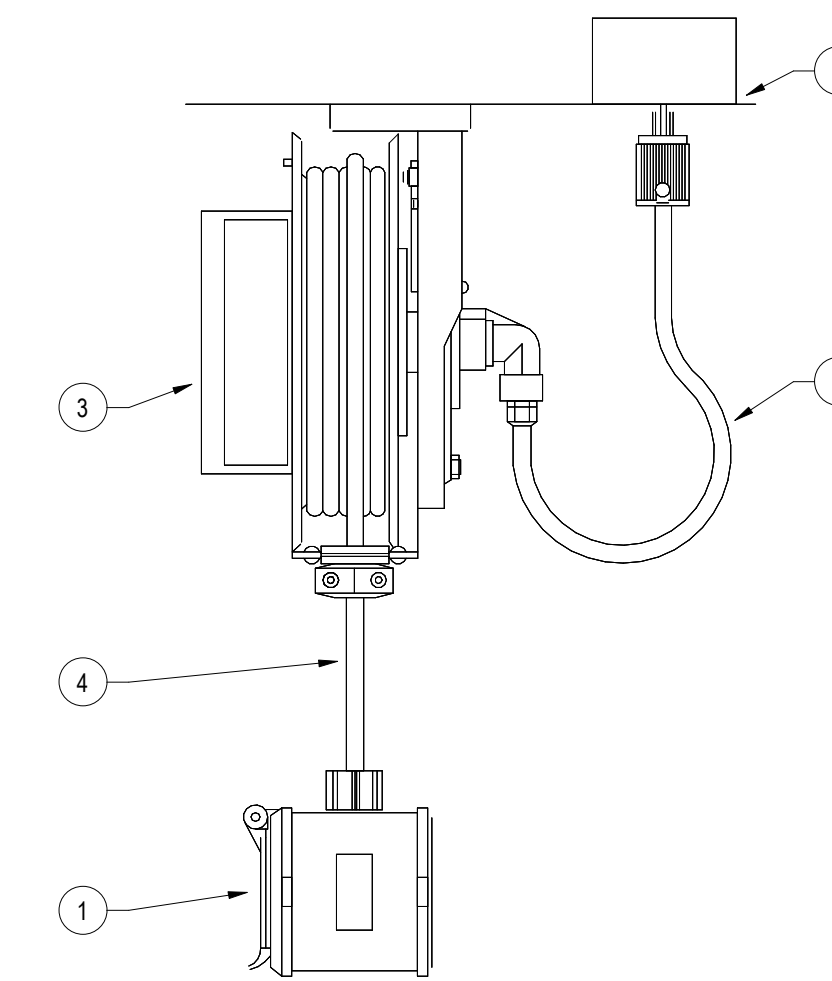
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LIONAKIS PROJECT NO:	019051
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GENERAL DETAIL NOTES

- A. LENGTH VARIES WITH NUMBER OF CONDUITS TO BE SUPPORTED.
- B. UNISTRUIT WITH ALLOWABLE LOADING PER MANUFACTURER'S RECOMMENDATIONS.
- C. FOR SUPPORT IN CONCRETE, USE SWIVEL CONCRETE INSERTS, AS SHOWN.

4 260529-071 CONDUIT SUPPORT DETAIL
N.T.S.



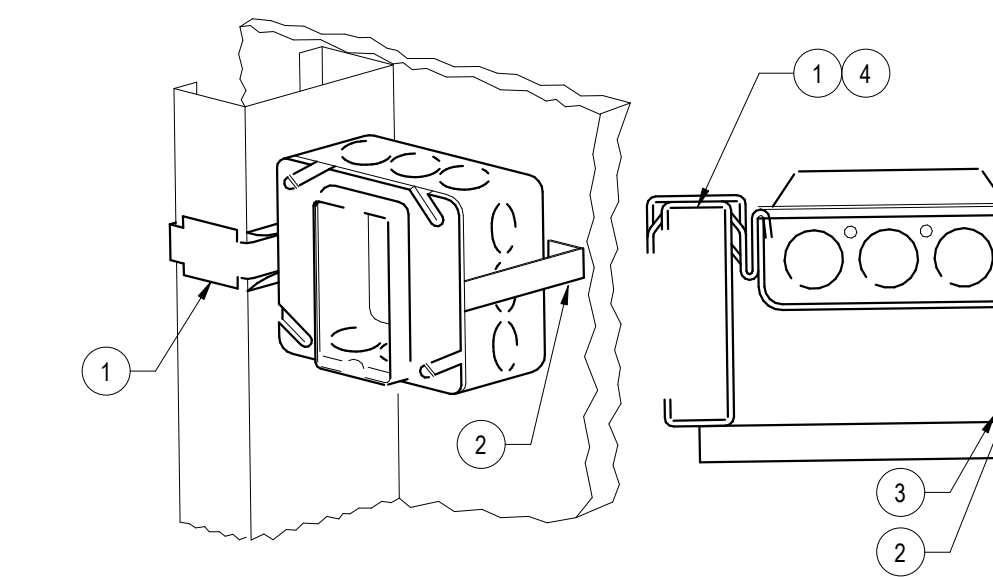
REFERENCED NOTES

- 1. PORTABLE OUTLET BOX WITH LIFT COVER AND SEE PLANS FOR NEMA TYPE
- 2. CEILING MOUNTED RECEPTACLE LOCATED WITHIN 18\"/>

GENERAL NOTES

- A. MANUFACTURER - HUBBEL HBL4S SERIES CORD REEL WITH DUPLEX PORTABLE OUTLET BOX
- B. REFER TO CONSTRUCTION DOCUMENTS FOR ELECTRICAL POWER, LOCATION AND QUANTITIES.
- C. COORDINATE SUPPORT WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO ROUGH-IN
- D. CONTRACTOR SHALL PROVIDE SUPPORT DETAILS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO INSTALLATION.

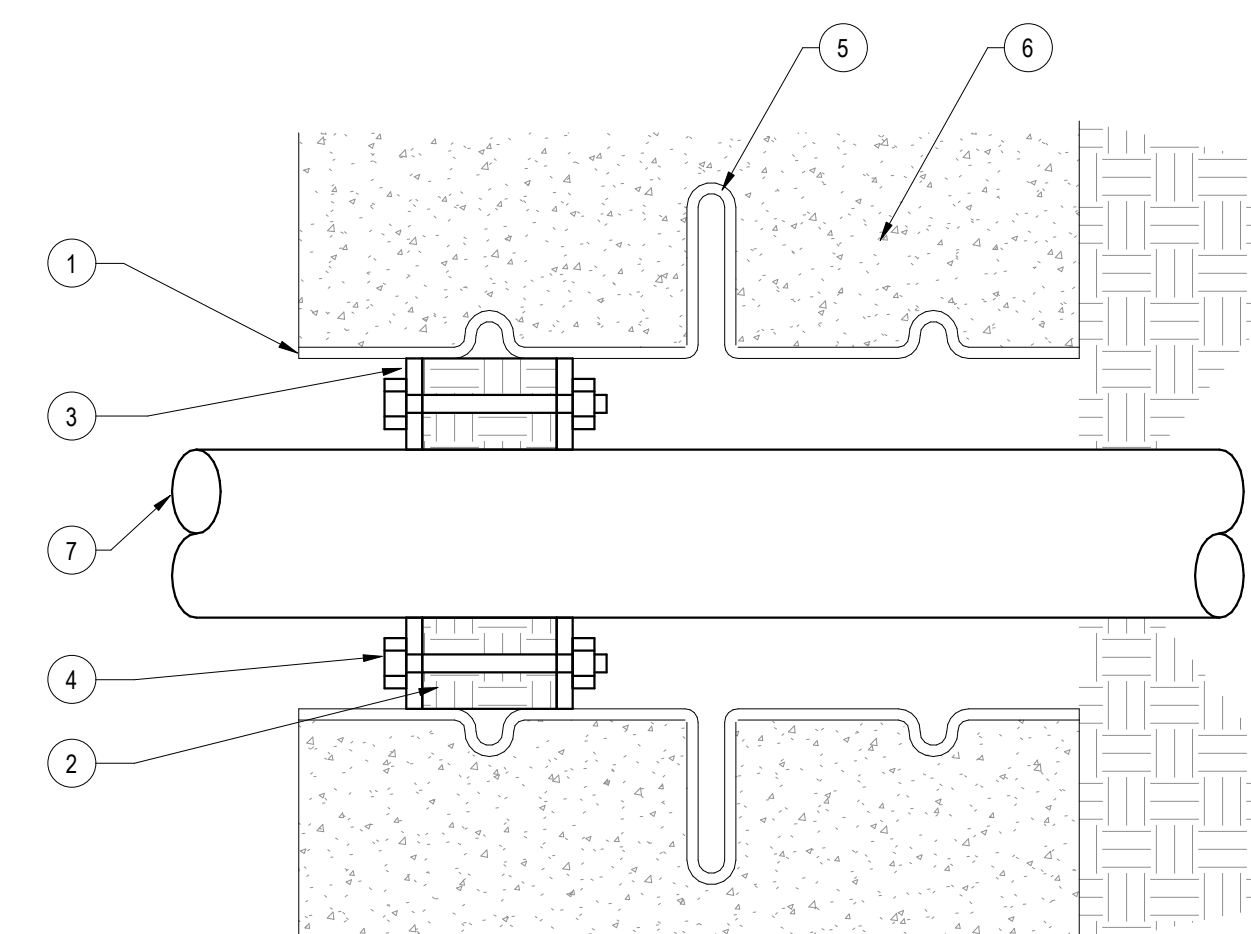
6 260533-14 CORD REEL WITH CORD & PLUG
N.T.S.



SHEET NOTES:

- 1. CADDY METAL STUD CLIP CAT. NO. MSF.
- 2. CADDY FAR SIDE BOX SUPPORT CAT. NO. 788.
- 3. BEND CLIP TO DESIRED STUD DEPTH AND ATTACH TO BOX. RETAINING TAB SHOULD LINE UP WITH ONE OF THE KNOCKOUT RECESSES.
- 4. ATTACH TO METAL STUD. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN. ATTACH BOX TO STUD CLIP AFTER CLIP HAS BEEN SET ON STUD.

3 260529-04 JUNCTION BOX WALL INSTALLATION
N.T.S.



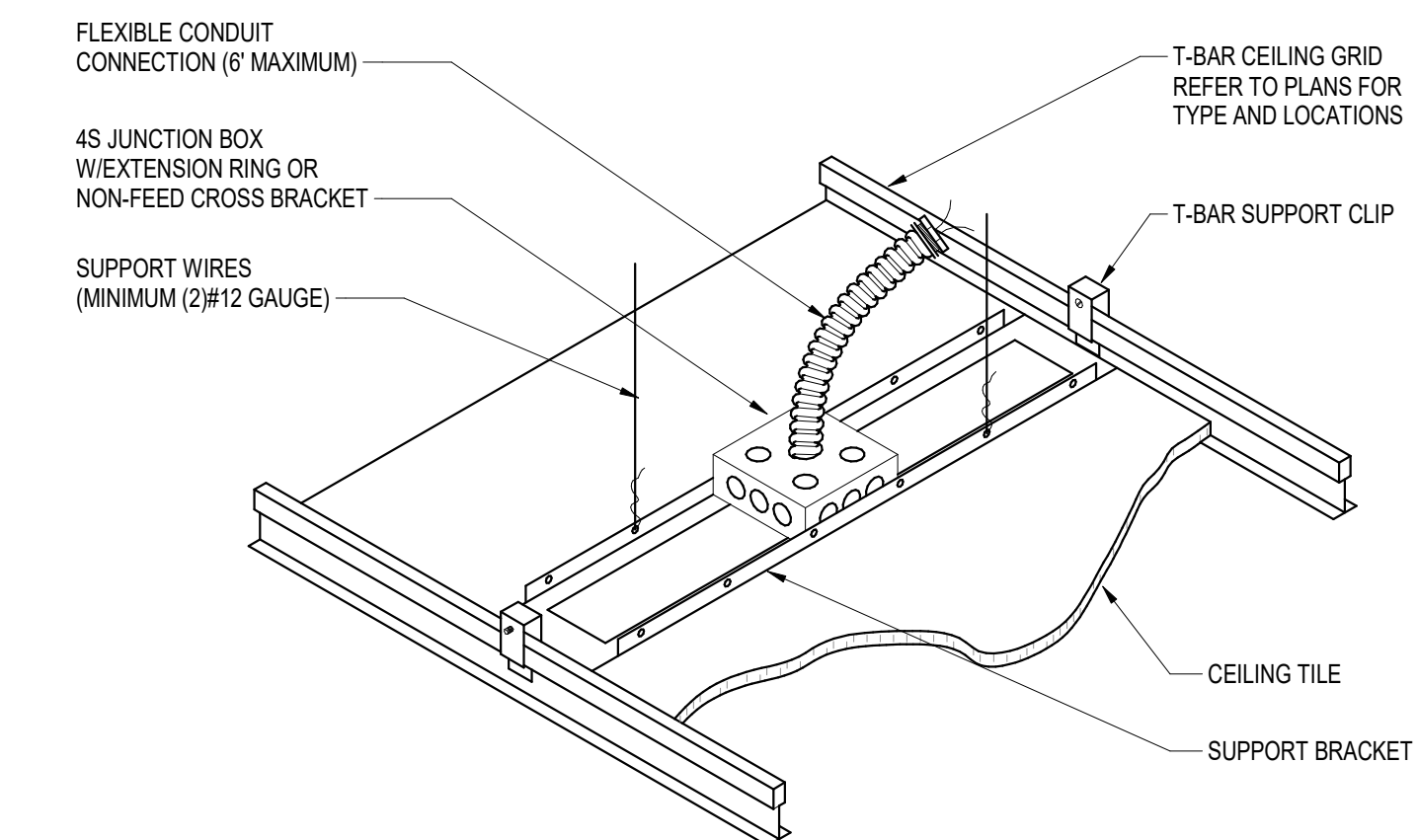
NOTES:

- 1. AMANUFACTURER - LINK SEAL CAST-IN-PLACE CENTURY LINE SEAL OR EQUAL
- 2. REFER TO CONSTRUCTION DOCUMENTS FOR ELECTRICAL POWER AND LOW VOLTAGE SYSTEMS TO DETERMINE QUANTITY AND SIZE OF LOW VOLTAGE AND POWER RACEWAYS.
- 3. COORDINATE PENETRATION LOCATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO ROUGH-IN.

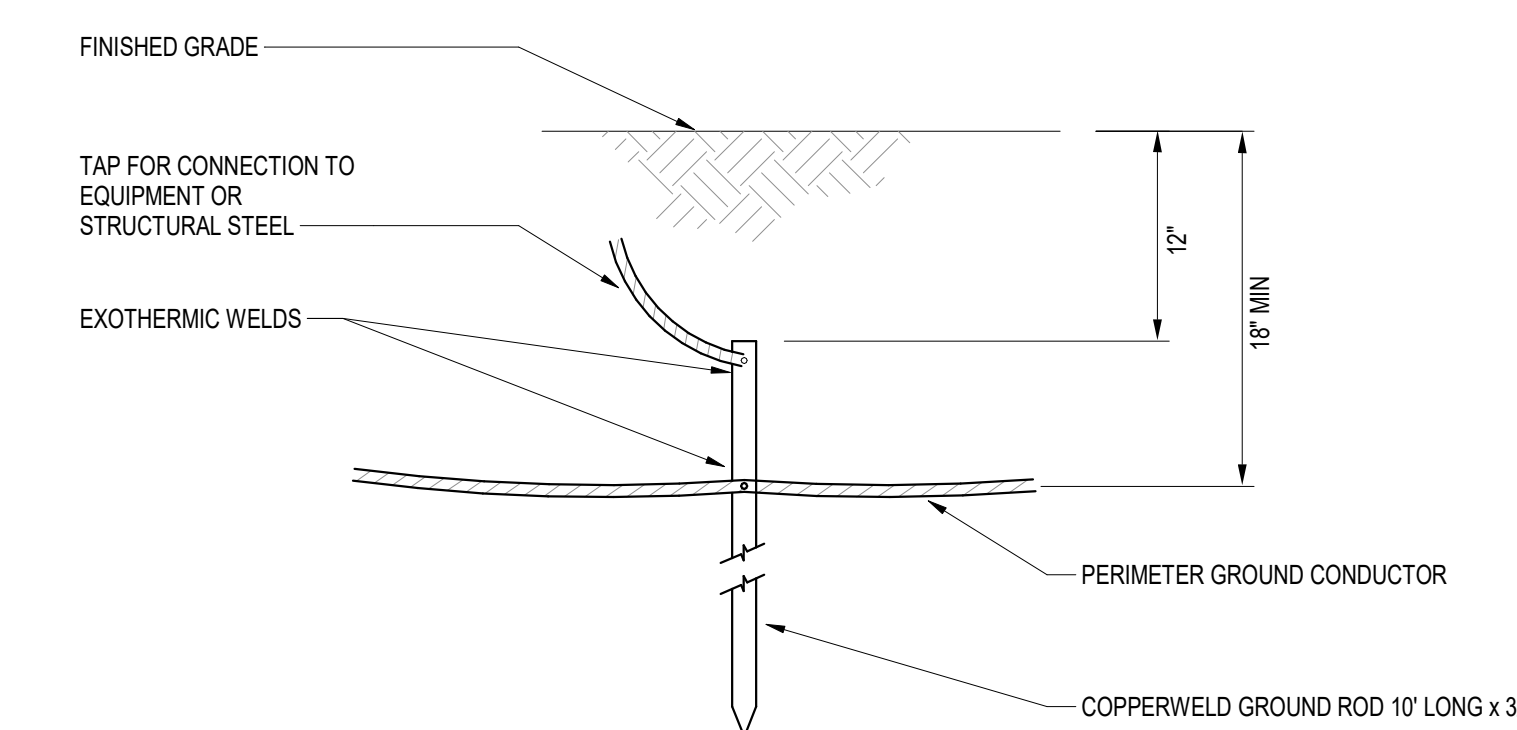
SHEET NOTES:

- 1. MOLDED HIGH DENSITY POLYETHYLENE SLEEVE SIZED PER MANUFACTURERS RECOMMENDATIONS FOR CONDUIT DIAMETER. SLEEVE RATED FOR MINIMUM 20 PSIG.
- 2. ELASTOMERIC SEAL
- 3. PRESSURE PLATE
- 4. BOLT
- 5. ANCHOR COLLAR/WATER STOP
- 6. CAST IN PLACE OR SHOTCRETE WALL. REFER TO CONSTRUCTION DOCUMENTS FOR TYPE AND THICKNESS OF WALL.
- 7. ELECTRICAL SYSTEM CONDUIT. REFER TO CONSTRUCTION DOCUMENTS FOR SIZE, TYPE, LOCATION, AND QUANTITY.

5 260533-02 BELOW GRADE CONDUIT PENETRATION
N.T.S.



2 260529-02 CEILING JUNCTION BOX SUPPORT
N.T.S.



1 260526-01 BURIED GROUND ROD
N.T.S.

0 1/4" 1/2" 1"

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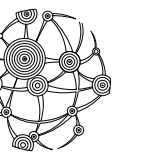
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Facility No: ?00000X?
Building No: ?00X?
OSHPD No: ?P-2016-XXXXXX?

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MANAGEMENT

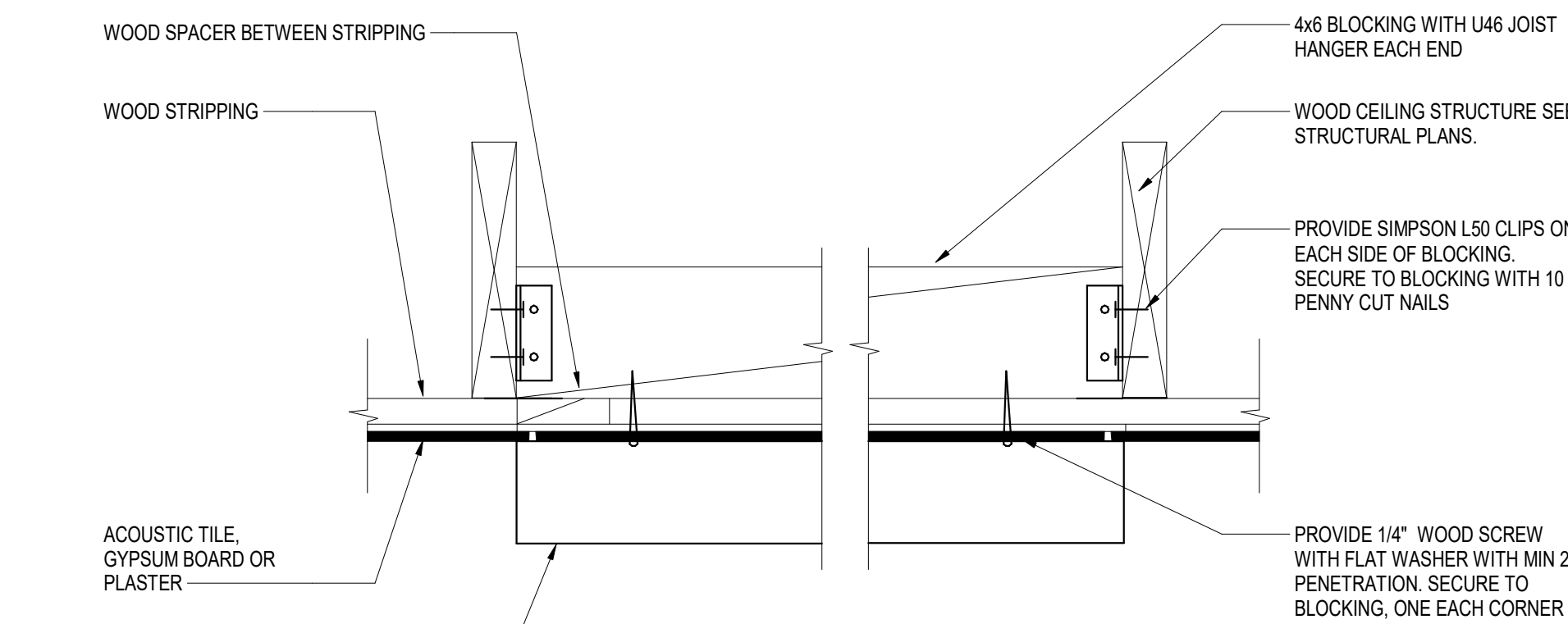
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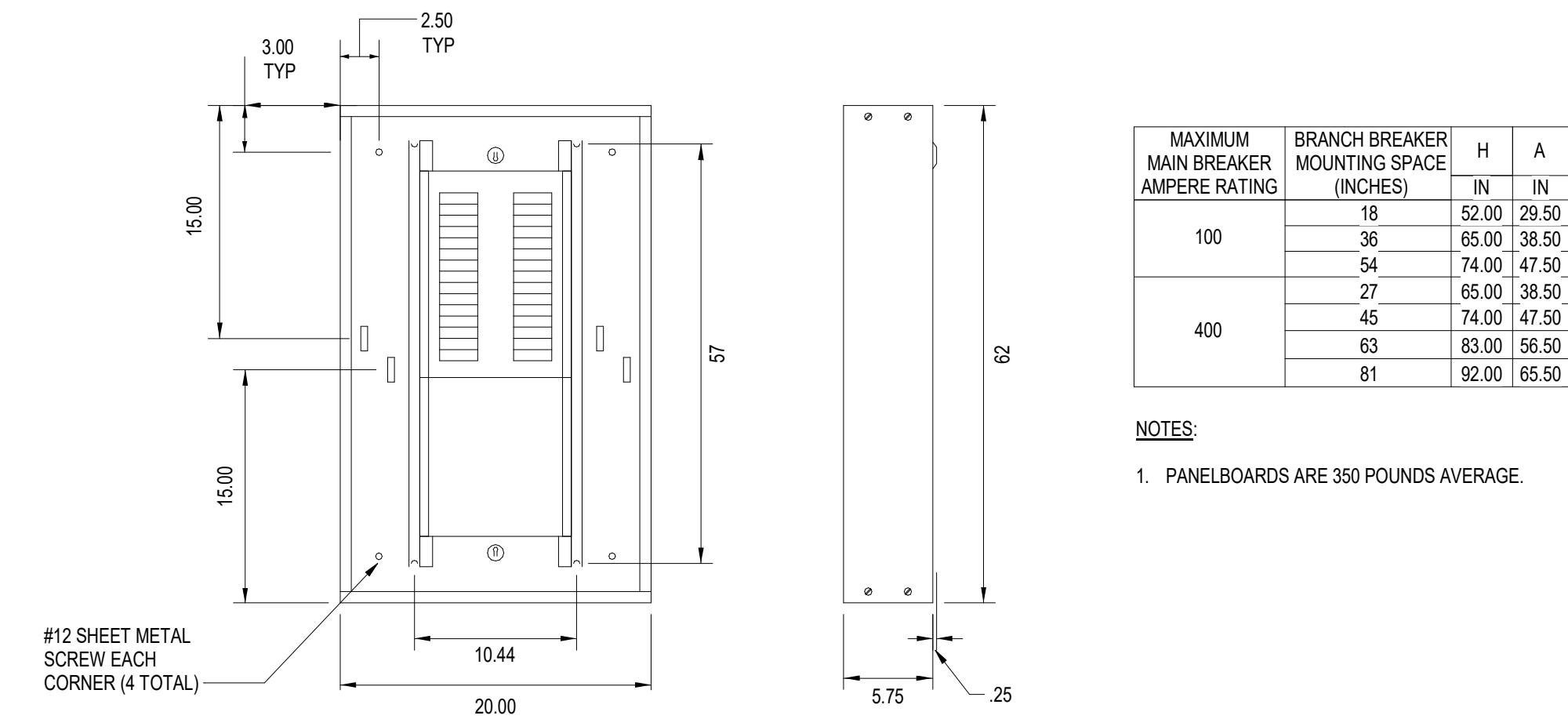
ELECTRICAL DETAILS

SHEET

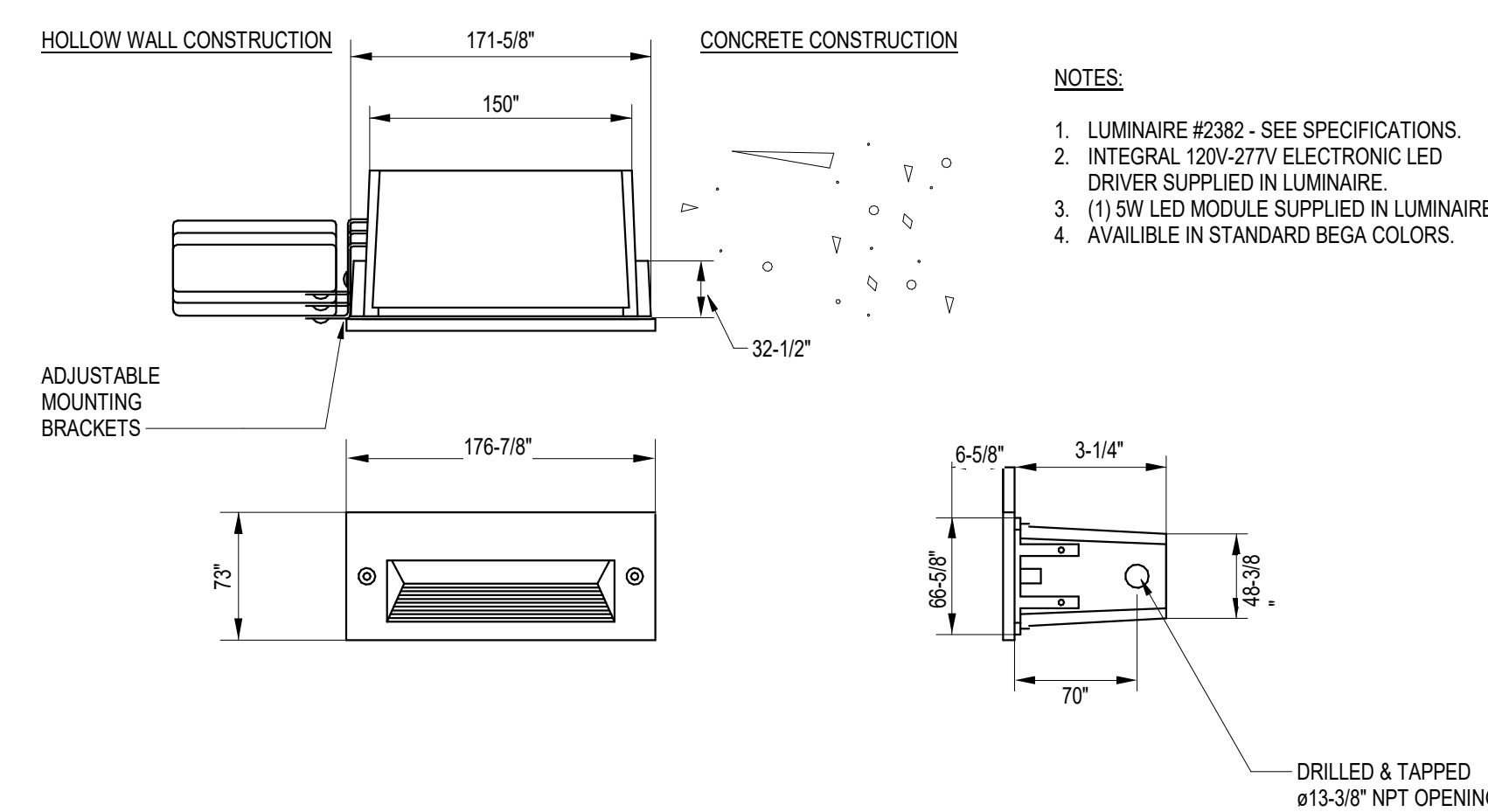
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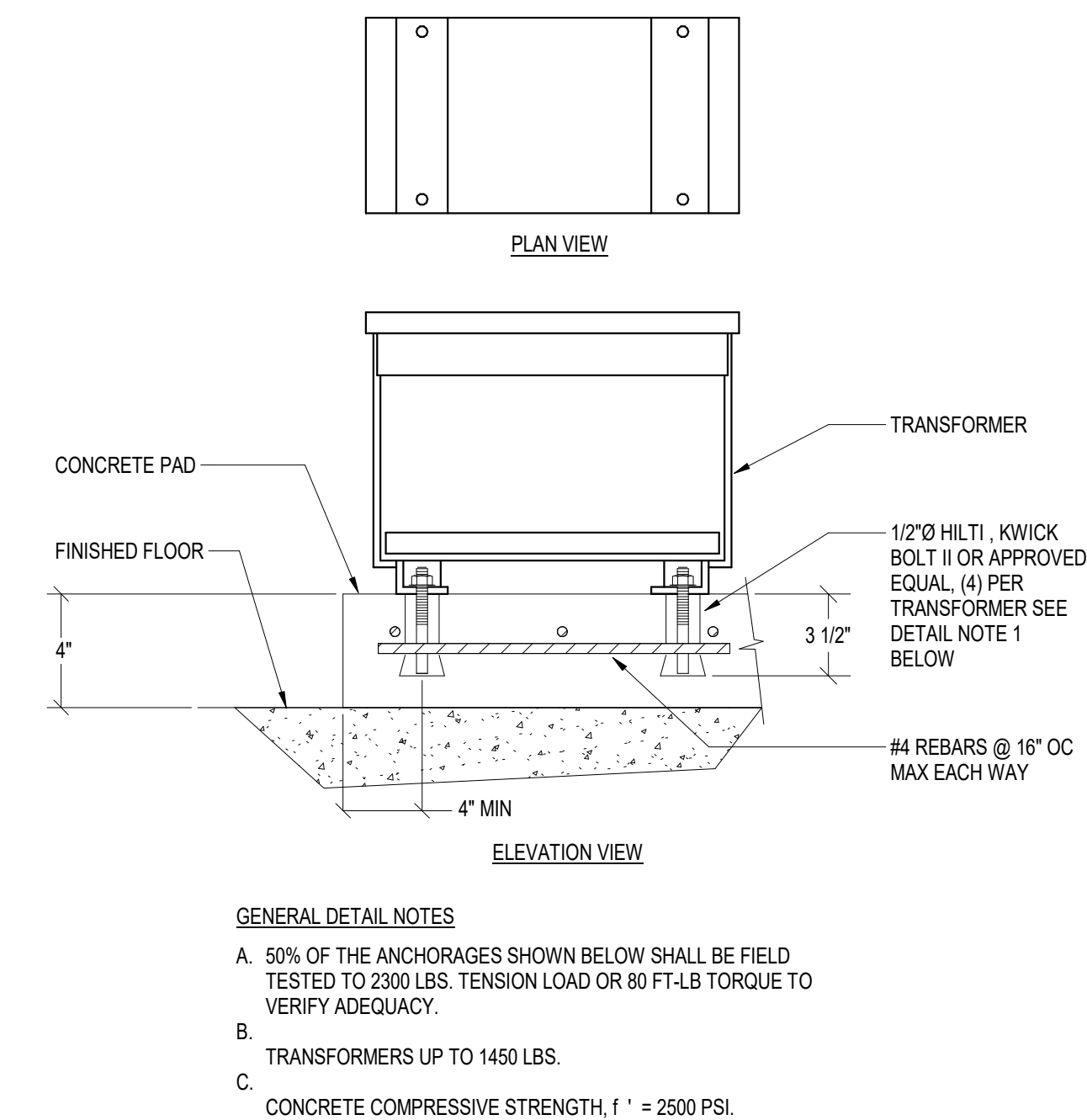
6 L-MISC - SURFACE FIXTURE MOUNTING
N.T.S.



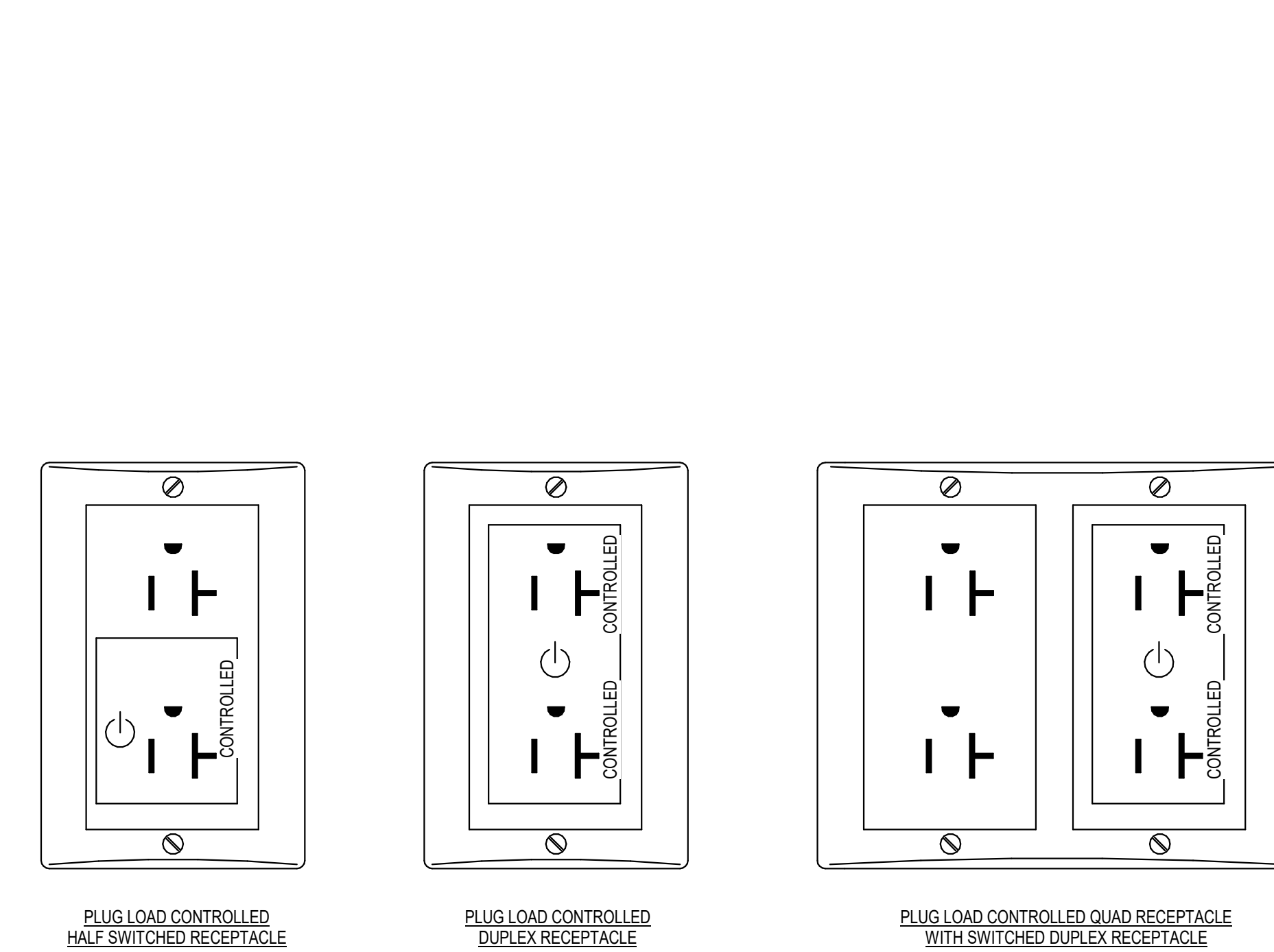
3 EP - TYPICAL BRANCH PANELBOARD DETAIL
N.T.S.



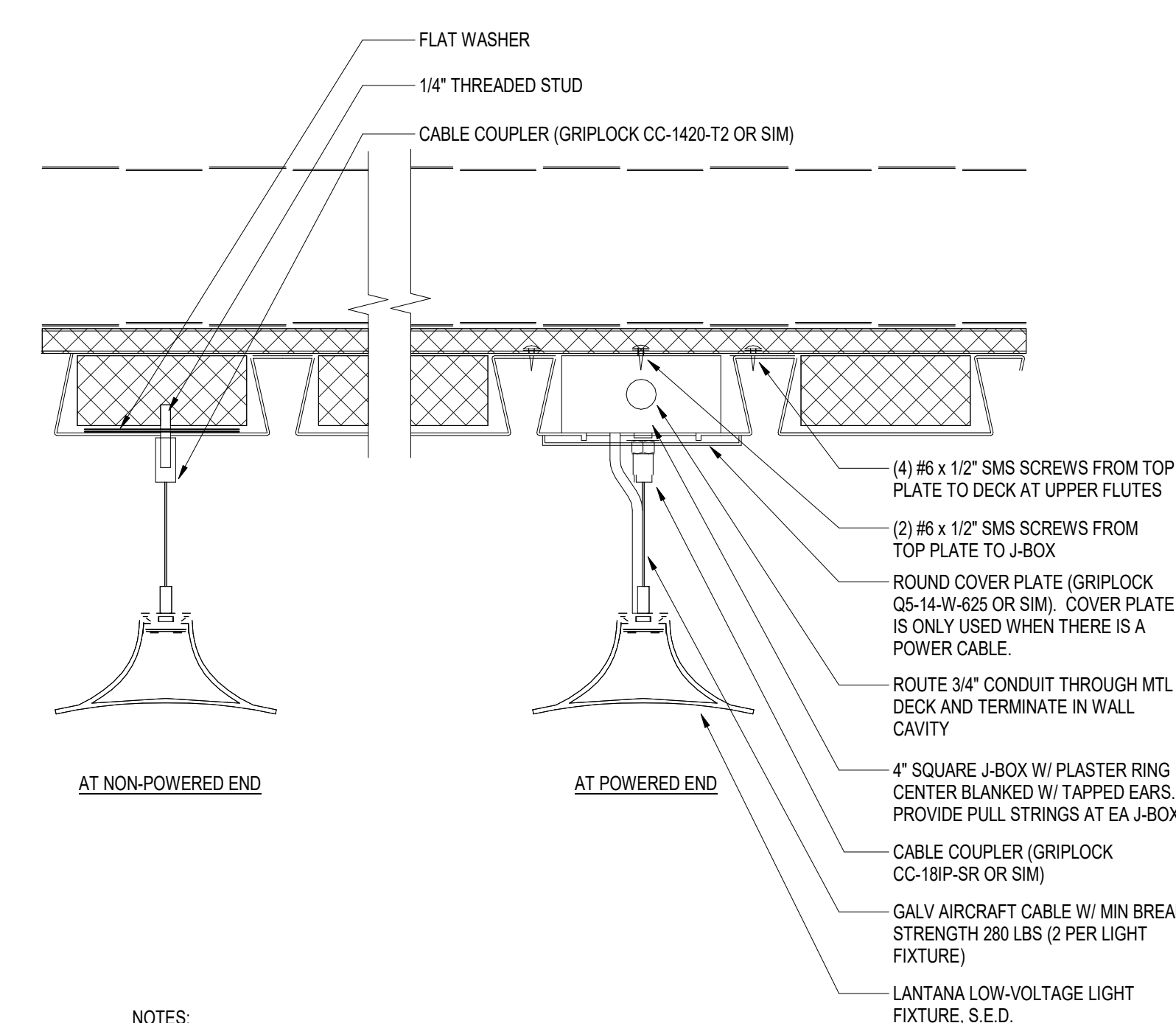
5 L-MISC - RECESSED WALL LUMINAIRE MOUNTING
N.T.S.



2 EP - TRANSFORMER ANCHORAGE PAD ON FLOOR
N.T.S.



4 262726-01 PLUG LOAD CONTROL IDENTIFICATION
N.T.S.



1 EL - PENDANT MOUNT LUMINAIRE AT EPICORE DECK
N.T.S.

0 1/4" = 1'

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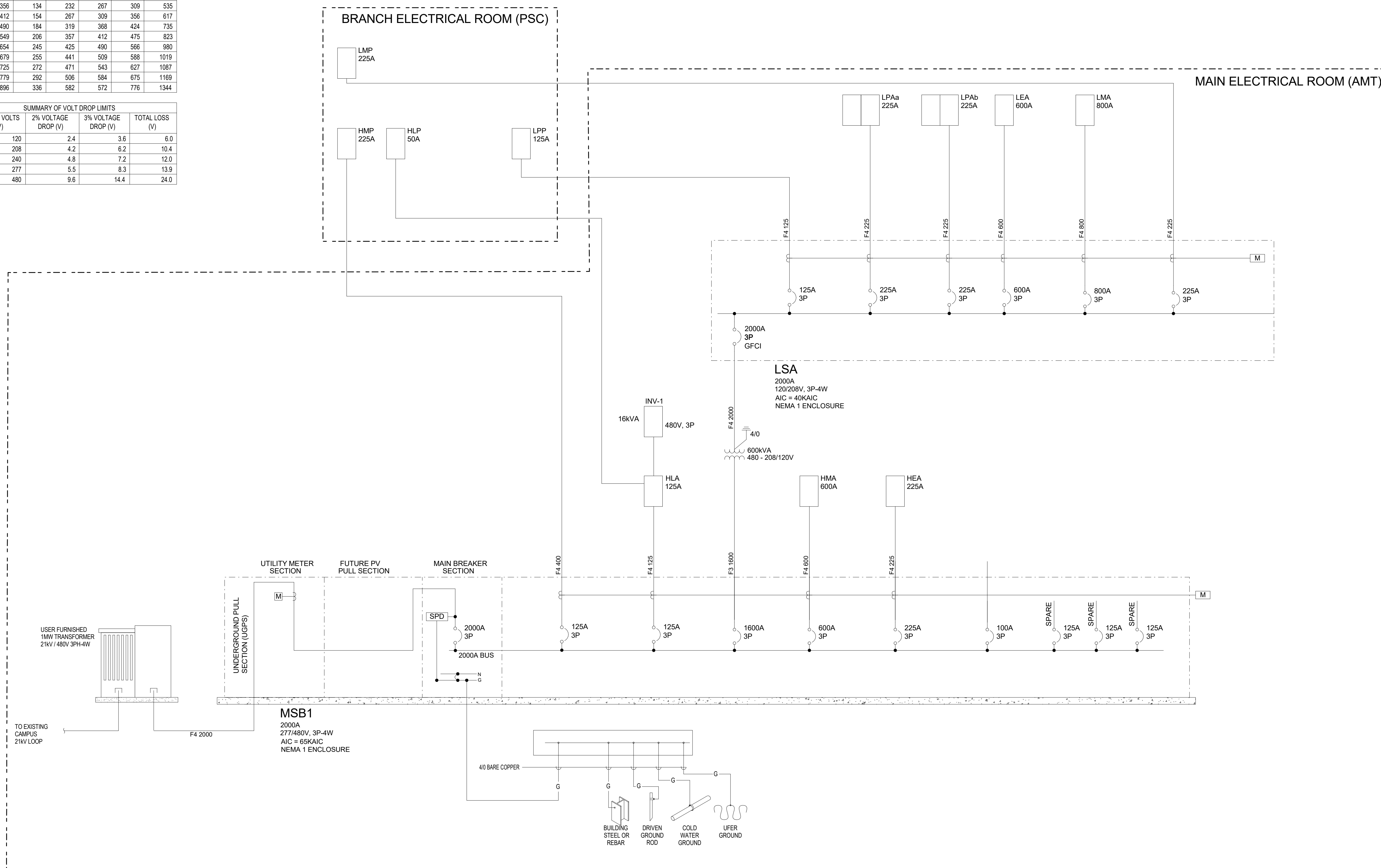
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1/17/2023 3:12:04 PM

ELECTRICAL FEEDER TABLE										
2 WIRE + GROUND										
FEEDER CODE	CONDUIT	PHASE	NEUTRAL	EQUIP. GR. GROUND	ISOLATED GROUND	FEEDER CODE	CONDUIT	PHASE	NEUTRAL	EQUIP. GR. GROUND
F250	(1)1	1#6	1#6	1#8	-					
3 WIRE + GROUND										
FEEDER CODE	CONDUIT	PHASE	NEUTRAL	EQUIP. GR. GROUND	ISOLATED GROUND	FEEDER CODE	CONDUIT	PHASE	NEUTRAL	EQUIP. GR. GROUND
F320	(1)3/4	3#12	-	1#12	-	F420	(1)3/4	3#12	1#12	1#12
F330	(1)3/4	3#10	-	1#10	-	F430	(1)3/4	3#10	1#10	1#10
F340	(1)1	3#8	-	1#10	-	F440	(1)1	3#8	1#8	1#10
F350	(1)1	3#6	-	1#8	-	F450	(1)1 1/4	3#6	1#6	1#8
F370	(1)1 1/4	3#4	-	1#8	-	F470	(1)1 1/4	3#4	1#4	1#8
F380	(1)1 1/4	3#2	-	1#8	-	F490	(1)1 1/2	3#2	1#2	1#8
F3125	(1)1 1/2	3#1	-	1#6	-	F4125	(1)2	3#1	1#1	1#6
F3150	(1)1 1/2	3#1/0	-	1#6	-	F4150	(1)2	3#1/0	1#1/0	1#6
F3175	(1)2	3#2/0	-	1#6	-	F4175	(1)2	3#2/0	1#2/0	1#6
F3200	(1)2	3#3/0	-	1#6	-	F4200	(1)2 1/2	3#3/0	1#3/0	1#6
F3225	(1)2	3#4/0	-	1#4	-	F4225	(1)2 1/2	3#4/0	1#4/0	1#4
F3250	(1)2 1/2	3#250	-	1#4	-	F4250	(1)3	3#250	1#250	1#4
F3300	(1)3	3#350	-	1#4	-	F4300	(1)3	3#350	1#350	1#4
F3350	(1)4	3#500	-	1#2	-	F4350	(1)4	3#500	1#500	1#2
F3400	(2)2	6#3/0	-	2#2	-	F4400	(2)2 1/2	6#3/0	2#3/0	2#2
F3450	(2)2 1/2	6#4/0	-	2#1	-	F4450	(2)2 1/2	6#4/0	2#4/0	2#1
F3500	(2)2 1/2	6#250	-	2#1	-	F4500	(2)3	6#250	2#250	2#1
F3600	(2)3	6#350	-	2#1	-	F4600	(2)3	6#350	2#350	2#1
F3700	(2)3	6#500	-	2#1/0	-	F4700	(2)4	6#500	2#500	2#1/0
F3800	(3)3	9#350	-	3#1/0	-	F4800	(3)3	9#350	3#350	3#1/0
F31000	(3)4	9#500	-	3#2/0	-	F41000	(3)4	9#500	3#500	3#2/0
F31200	(4)3	12#350	-	4#3/0	-	F41200	(4)3	12#350	4#350	4#3/0
F31500	(5)3	15#350	-	4#4/0	-	F41500	(5)3	15#350	5#350	4#4/0
F31600	(5)3	15#500	-	5#4/0	-	F41600	(5)3 1/2	15#500	5#500	5#4/0
F32000	(6)4	18#500	-	6#250	-	F42000	(6)3 1/2	18#500	6#250	-

SUMMARY OF MAXIMUM FEEDER AND BRANCH CIRCUIT LENGTHS												
WIRE (AWG)	CIRCUIT AMPS (A)	MAXIMUM FEEDER LENGTH (ft)						MAXIMUM BRANCH CIRCUIT LENGTH (ft)				
		120V	208V	240V	277V	480V	120V	208V	240V	277V	480V	
14	12	39	67	78	90	156	58	101	117	135	233	
12	16	46	80	93	107	185	69	120	139	160	278	
10	24	48	83	96	111	192	72	125	144	166	288	
8	32	57	99	115	132	229	86	149	172	199	344	
6	40	73	127	146	169	293	110	190	220	253	439	
4	52	89	154	178	206	356	134	232	267	309	535	
2	72	103	178	206	237	412	154	267	309	356	617	
0	96	123	212	245	283	490	184	319	368	424	735	
00	108	137	238	274	317	549	206	357	412	475	823	
0000	144	163	283	327	377	654	245	425	490	566	960	
250	164	170	294	340	392	679	255	441	509	588	1019	
300	184	181	314	362	416	725	272	471	543	627	1087	
350	200	195	338	390	450	779	292	506	584	676	1169	
500	248	224	388	448	517	896	336	582	672	776	1344	

SUMMARY OF VOLT DROP LIMITS			
CIRCUIT VOLTS (V)	2% VOLTAGE DROP (V)	3% VOLTAGE DROP (V)	TOTAL LOSS (V)
120	2.4	3.6	6.0
208	4.2	6.2	10.4
240	4.8	7.2	12.0
277	5.5	8.3	13.8
480	9.6	14.4	24.0



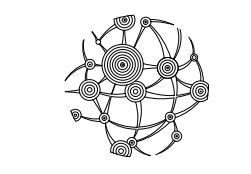
FILE NO. ?XX-XXXX?

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
?XX-XXX?
AC: _____ FLS: _____ SS: _____
DATE: _____

LIONAKIS

1919 Nineteenth Street
Sacramento CA 95811
P 916.558.1900 F 916.558.1919
www.lionakis.com

CONSULTANT



INTEGRAL

427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
www.integralgroup.com

SEAL

PROJECT
**PUBLIC SAFETY COMPLEX /
ADVANCED MANUFACTURING AND
TRANSPORTATION PROJECT**

LAS POSITAS COLLEGE
3000 CAMPUS HILL DRIVE
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY
COLLEGE DISTRICT
7600 DUBLIN BLVD
DUBLIN, CA 94568

Facility No: ?00000?
Building No: ?00?
OSHPD No: ?P-2016-XXXXX?

ISSUED		
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT
LIONAKIS PROJECT NO: 019091
CLIENT PROJECT NO: -
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TITLE
**ELECTRICAL SINGLE
LINE DIAGRAM**

SHEET

E-601

0 1/4" = 12'

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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1/17/2020 3:12:07 PM

GENERAL NOTES

- A. METER COMMUNICATION: PROVIDE RS-485 CONNECTION TO EACH METER, TO NETWORK (MODBUS TCP AND BACnet/IP). METER DATA TO BE COLLECTED BY LOCAL COMPUTER SOFTWARE.
- B. MULTIMETER: PROVIDE EATON PXM 2000 SERIES OR EQUAL. EACH BREAKER SHALL BE INDIVIDUALLY METERED.

FILE NO. ?XX-XXXX?

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

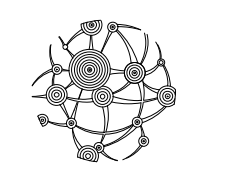
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1919 Nineteenth Street
Sacramento CA 95811
P 916.558.1900 F 916.558.1919
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Facility No: ?XXXXXX?
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OSHPD No: ?P-2016-XXXXXX?

ISSUED

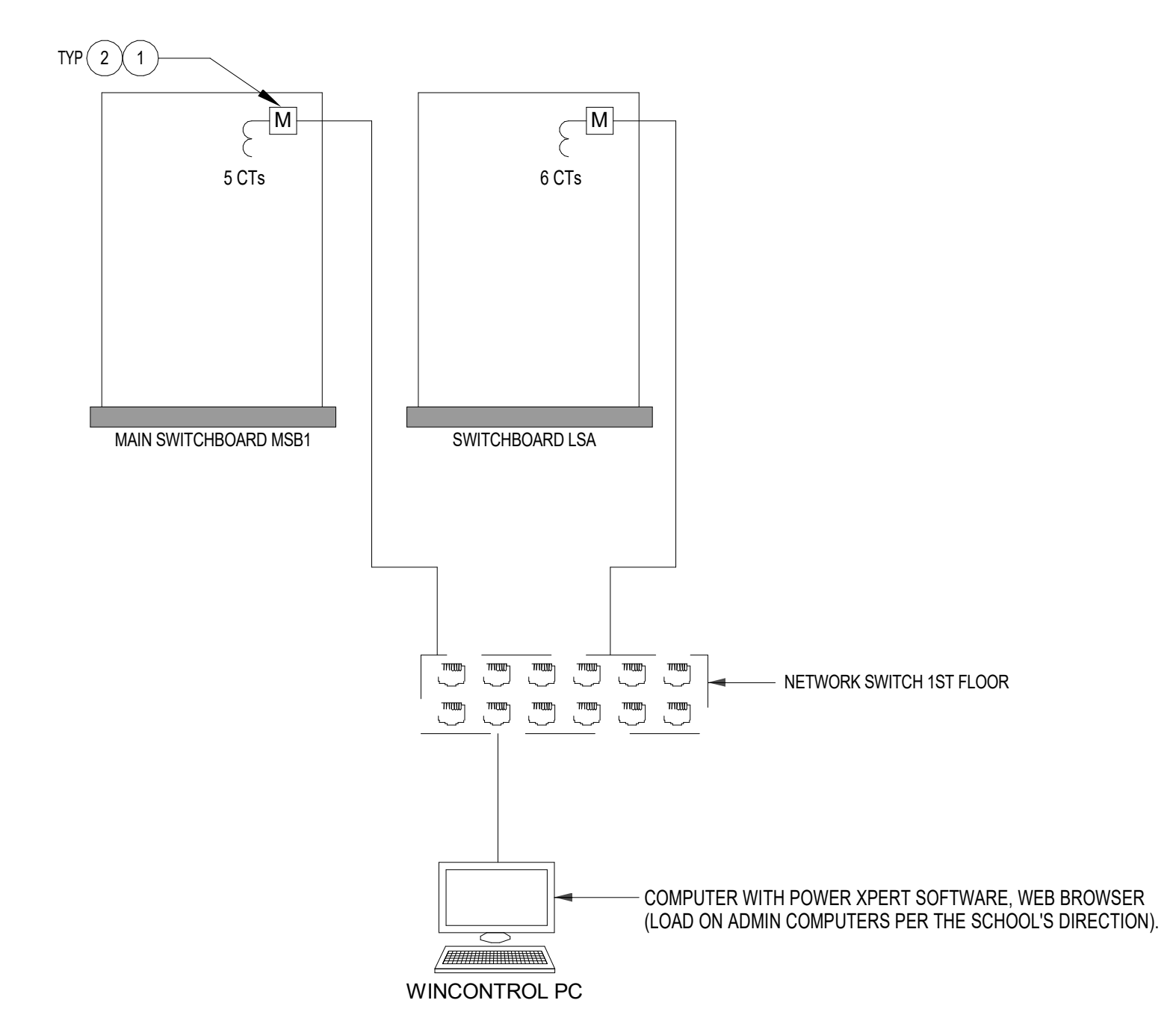
MARK	DATE	DESCRIPTION
	01/10/2020	50% DESIGN DEVELOPMENT

MANAGEMENT

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TITLE
METER RISER DIAGRAM

SHEET
E-602



LEVEL 1

1 METER RISER DIAGRAM
NTS