



**CHABOT-LAS POSITAS  
COMMUNITY COLLEGE DISTRICT  
PURCHASING DEPARTMENT**

March 25, 2021

**Addendum No. 4  
INVITATION TO BID No.: B20/21-08  
Agriculture Science, Horticulture Facility Project**

To: All Prospective Bidders

This Addendum Four (4) is issued to incorporate the following changes, additions or deletions to the Bid No. B20/21-08. Any modifications/changes made by this addendum affect only the portions or paragraphs specifically identified herein; all remaining portions of Bid No. B20/21-08 to remain in force. It is the responsibility of all responders to conform to this addendum.

**A. ADDITIONS, CHANGES AND/OR CLARIFICATIONS:**

**The following Changes have been Added and Changed to the bid documents:**

- 1. Specification Section 00 0110 Table of Contents** - Updated revision dates where applicable.
- 2. Specification Section 08 7100 Door Hardware** – Revisions to the following Hardware Group:
  - a. Hardware Group No. 14 – Exterior Pair/Storage - Delete Floor stop/folder; delete door sweep; delete threshold.
  - b. Hardware Group No. 16 – Pair Gates - Add self-closing hinge specification.
  - c. Hardware Group No. 17 – SGL Gate - Add self-closing hinge specification.
  - d. Hardware Group No. 19 – SGL Gate – Remove from specification.

- e. Hardware Group No. 20 – Vehicle Gates - Renamed to Hardware Group No. 19 – Vehicle Gates.
3. **Sheet A101 – Site Plan:** Delete Gate No. 8 from the Gate Schedule.
  4. **Sheet AA121 – Classroom Building Floor Plan:** Update location of conduit sleeves in IDF Room 107A.
  5. **AA122 – Classroom Building Signage & Existing Plan:**
    - a. Revised signage type at Door A102B.
    - b. Move signage location at Door A103.
    - c. Deleted unused Keynote 10.86.
    - d. Background update for conduit sleeves in IDF Room 107A.
    - e. Updated location of Max. Occupancy signage to match elevation.
  6. **Sheet AA141 – Classroom Building Reflected Ceiling Plan:**
    - a. Depicted exit lights.
    - b. Depicted conduit in IDF Room 107A in revised location.
    - c. Dimensioned light fixtures in IDF Room 107A.
  7. **Sheet AA501 – Interior Elevations:**
    - a. Added detail references at Keynotes 10.54, 10.87 and 10.88.
    - b. Depict wall mounted exit light location on Detail 2 Classroom – East elevation.
    - c. Revised configuration of acoustical wall panel on Detail No. 3 Classroom South elevation.
    - d. Depict batt insulation along the ceiling and wall-mounted light fixture on Detail 7 Custodial – North elevation.
  8. **Sheet AA502 – Interior Elevations:**
    - a. Delete Keynote 08.18 and its reference on Detail No. 12 Lactation Room - North elevation.
    - b. Depict wall mounted exit light location on Detail No. 3 Head House – East elevation.
  9. **Sheet AD121 – Equipment Storage Floor Plan:** Add Door Tag D101 to Equipment Storage D101.
  10. **Sheet A801 – Door and Window Schedules and Types:**
    - a. Updated Door Schedule.
    - b. Added EE door type elevation.
  11. **Sheet EA141 – Classroom Building Floor Plan Lighting:**
    - a. Added exit light.
    - b. Updated alignment of undercounter lighting.
    - c. Deleted stray circuit lines.
  12. **Sheet TA100 – Telecom System Diagram:** Revised Keynote TN3 from Single Mode Fiber to Multimode Fiber.
  13. **Sheet TA101 – Telecom Site Plan:**
    - a. Updated conduit route.
    - b. Revised Keynote TN1.
    - c. Added Keynotes TN5, TN6 and TN 7.
  14. **Sheet TA401 – IDF Room 107A Enlarged Plans and Elevations:**
-

- a. Updated Keynote TN6.
  - b. Revised conduit location on IDF Room 107A, Enlarged Plan 1.
  - c. Revised conduit route on Elevations B and C.
- 15. Sheet TN802 – Telecom Site Plan:** Added Keynote TN8.

## **B. RFI QUESTIONS AND RESPONSES:**

No Questions.

## **C. ATTACHMENTS:**

### Drawings (13 sheet):

#### Architectural:

- A101 Site Plan
- AA121 Classroom Building Floor Plan
- AA122 Classroom Building Signage and Exiting Plan
- AA141 Classroom Building Reflected Ceiling Plan
- AA501 Interior Elevations
- AA502 Interior Elevations
- AD121 Equipment Storage Floor Plan
- A801 Door and Window Schedule

#### Electrical:

- EA141 Classroom Building Floor Plan Lighting

#### Telecom:

- TA100 Telecom System Diagram
- TA101 Telecom Site Plan
- TA401 IDF Room 107A Enlarged Plans and Elevations
- TN802 Fiber Cabling Single Line Diagram

Specification Sections (2 section):

Division 01 – General Requirements:

01 01 10	Table of Contents
08 71 00	Door Hardware

***All other terms and conditions remain unchanged.***

Michael McClung - Buyer, Purchasing and Warehouse Services  
Chabot-Las Positas Community College District

**GATE SCHEDULE**

GATE NO.	GATE TYPE	WIDTH	HEIGHT	GATE MAT'L	Hardware Set	COMMENTS
G1	PEDESTRIAN GATE	3'-0"	4'-0"	CL	15	LATCH: SEE DETAIL 1/L504
G2	PEDESTRIAN GATE	6'-0"	6'-0"	GR. SCN.	16	LOCK: SEE DETAIL 2/L504
G3	PEDESTRIAN GATE	6'-0"	6'-0"	GR. SCN.	16	LOCK: SEE DETAIL 2/L504
G4	PEDESTRIAN GATE	3'-0"	6'-0"	CL	17	LOCK: SEE DETAIL 1/L504
G5	SLIDING VEHICLE GATE	20'-0"	6'-0"	CL	18	
G6	VEHICLE GATE	10'-0"	6'-0"	CL	20	SEE DETAIL 4/L504
G7	VEHICLE GATE	10'-0"	6'-0"	CL	20	SEE DETAIL 4/L504

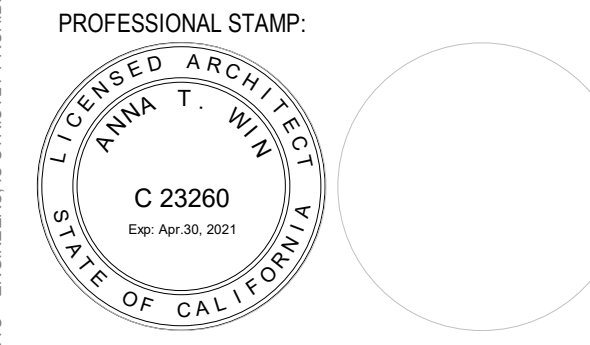
**GENERAL SHEET NOTES**

- REFER TO CIVIL SHEET C300 FOR SITE HORIZONTAL CONTROL.
- REFER TO CIVIL SHEET C801 FOR ENLARGED ACCESSIBLE PARKING AND SIGNAGE DETAILS.
- REFER TO LANDSCAPE PLAN SHEET L202 FOR HARDSCAPE AND WALKWAY DIMENSIONS.

DSA:



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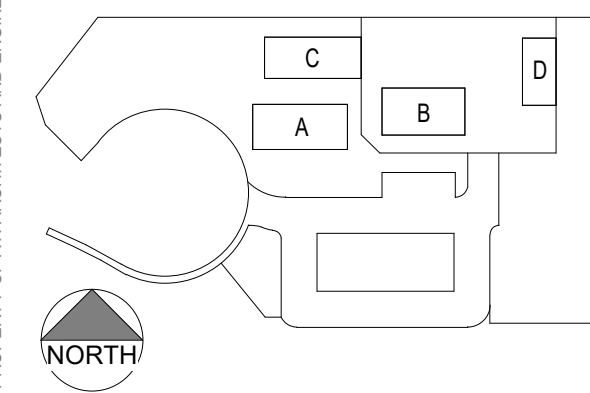
CONSULTANT:

**SHEET KEYNOTES**

- 02.07 NEW FIRE HYDRANT, SEE C803
- 10.19 VEHICULAR SITE SIGNAGE - ACCESSIBLE PARKING SPACE, SEE C801
- 12.20 IN-GROUND BICYCLE RACKS, SEE L502

ITEM	REVISION / ISSUE	DATE
2	ADDENDUM 2	03/10/21
4	ADDENDUM 4	Date 4

KEY PLAN:



CLPCCD - LAS POSITAS COLLEGE  
**AGRICULTURE SCIENCE HORTICULTURE FACILITY**  
3000 CAMPUS HILL DRIVE,  
LIVERMORE, CA 94551

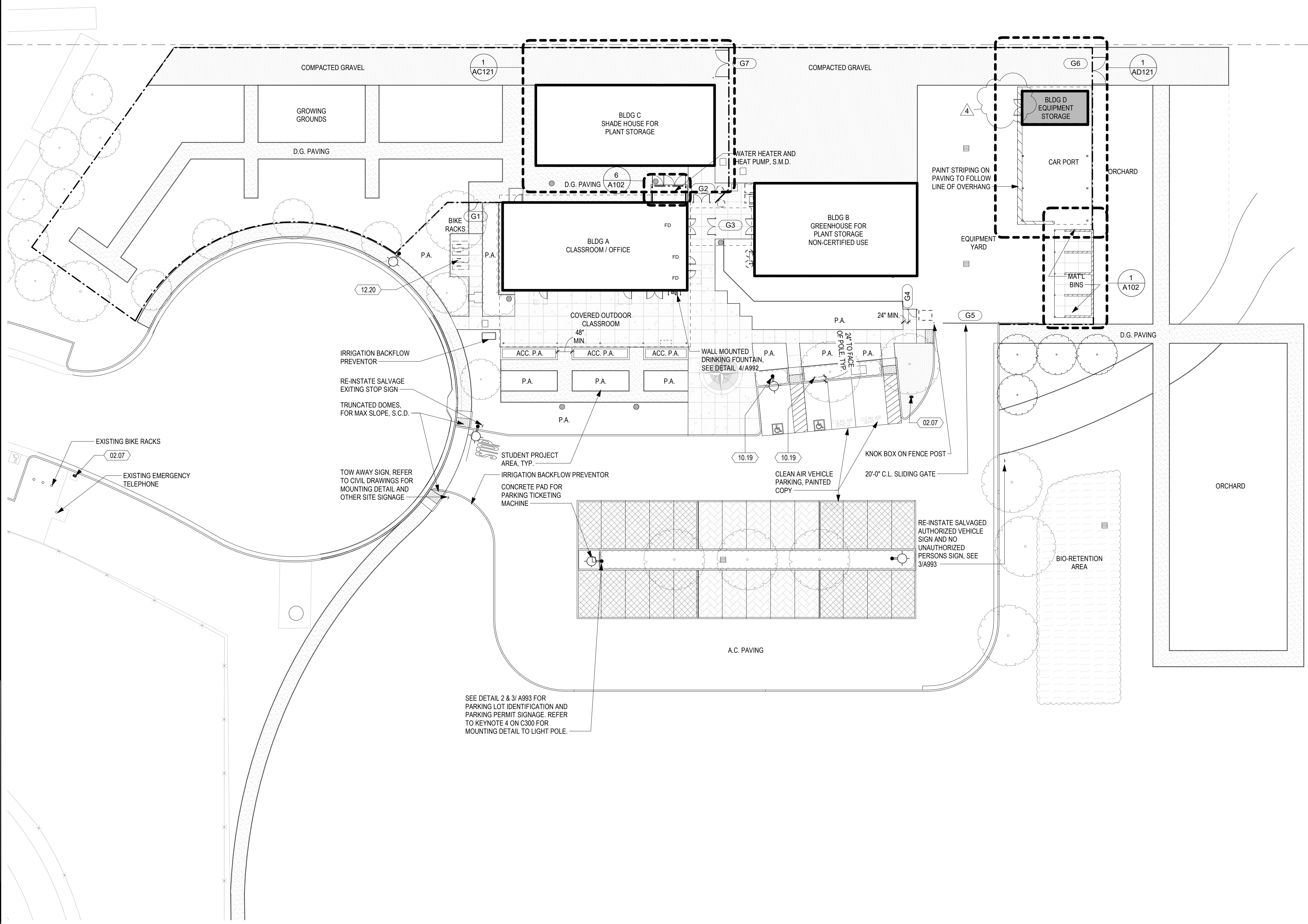
**SITE PLAN**

**LEGEND**

- AC PAVING
- EXISTING FENCE
- NEW FENCE

DRAWN BY: EA CHECKED BY: AW  
DATE: 01/14/2021 PROJECT NO: C9508  
SHEET NO:

**A101**



**1 SITE PLAN**  
1" = 20'-0"

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SHEET NOTES

- 1. REFER TO CIVIL DRAWINGS FOR FINISH SLAB ELEVATIONS.
- 2. SLOPE DOOR LANDINGS AWAY FROM BUILDING, MAX 1/4" PER FT. IN ALL DIRECTIONS 2'-0" ON STRIKE SIDE AND 5'-0" ON FORWARD APPROACH OF ALL EXTERIOR DOORS.
- 3. COORDINATE LOCATION AND PROVIDE BLOCKING, BACKING AND/OR REINFORCEMENT IN PARTITIONS FOR CABINETS, COUNTERTOPS AND WALL-MOUNTED ITEMS.
- 4. WALLS ARE DIMENSIONED FROM GRIDLINE, CENTER OF STEEL COLUMN OR FACE OF STUD. U.O.N.
- 5. ALL "CLEAR" DIMENSIONS ARE LOCATED FROM FACE OF FINISH TO FACE OF FINISH.
- 6. ALL FIXTURES ARE DIMENSIONED FROM FACE OF FINISH. U.O.N.
- 7. DOORS ARE LOCATED 4" AWAY FROM WALL ON HINGED SIDE. U.O.N.



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PROFESSIONAL ARCHITECT:



CONSULTANT:

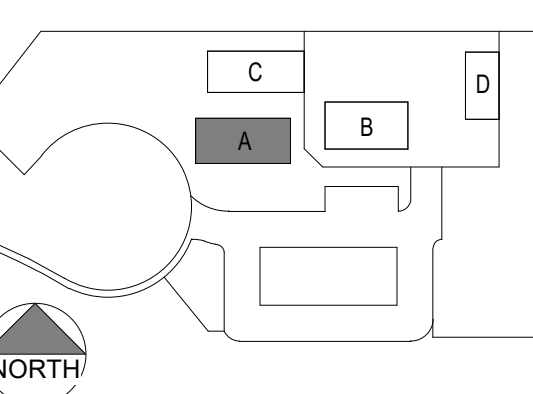
SHEET KEYNOTES

- 01.18 SOFFIT ABOVE
- 01.22 OUTLINE OF FOUNDATION BELOW, S.S.D.
- 06.26 3/4" 1-HR RATED FIRE-TREATED PLYWOOD @ ALL WALLS TO +8'-6 A.F.F., PAINT WHITE, SEE 1/TA121
- 07.06 3" CAST IRON DOWNSPOUT, PAINTED, COLOR TO MATCH ADJACENT SIDING PANEL, SEE DETAIL 9/A921 AND 3/A921
- 09.59 SLIP-RESISTANT TEXTURED EPOXY FLOORING
- 09.60 EPOXY FLOORING
- 09.65 PRE-MOLDED VINYL TRANSITION STRIP
- 10.02 TACKBOARD
- 10.11 PROJECTION MARKERBOARD, 8W X 5H TYP.
- 10.26 FIRE EXTINGUISHER IN RECESSED MOUNTED CABINET, SEE DETAIL 2/A992
- 10.40 STAINLESS STEEL CORNER GUARD
- 10.66 78" 4-TIER 12" METAL LOCKERS
- 10.73 78" 4-TIER 15" METAL LOCKERS
- 10.74 LAPTOP CART, N.I.C.
- 22.13 DECK-MOUNTED EMERGENCY EYEWASH STATION
- 22.15 FLOOR DRAIN
- 22.23 24"x24" SOLIDS INTERCEPTOR WITH GRATE

ITEM: REVISION / ISSUE: DATE:

4	ADDENDUM 4	Date 4

KEY PLAN:



LEGEND

- SHEAR WALL
- 1-HR RATED WALL
- NON-RATED WALL

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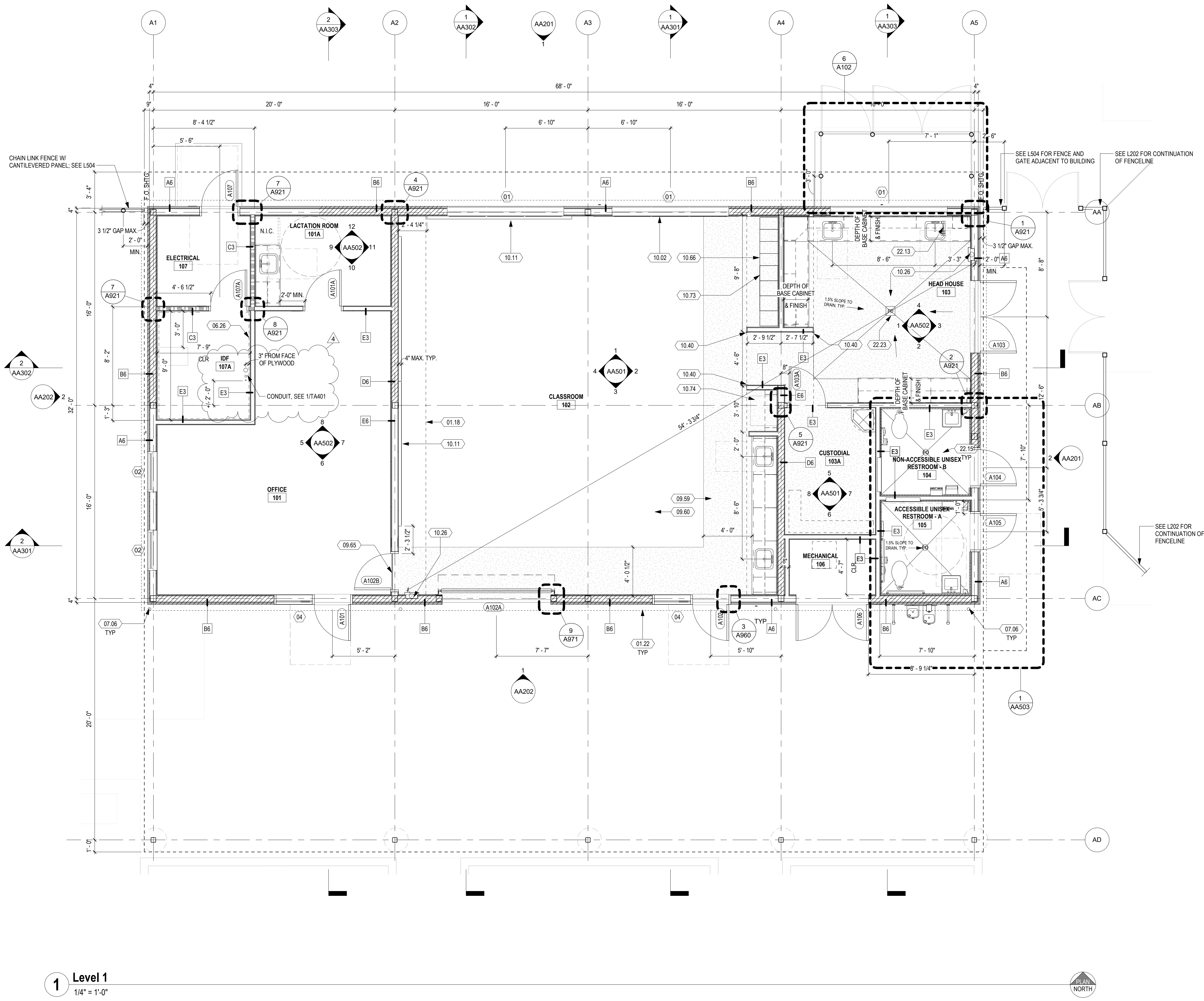
3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551

CLASSROOM BUILDING FLOOR PLAN

DRAWN BY: EA CHECKED BY: AW  
DATE: 01/14/2021 PROJECT NO: C9508

SHEET NO:

AA121



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

**SHEET KEYNOTES**

- 10.54 ROOM IDENTIFICATION SIGNAGE, SEE DETAIL 6/G007 AND 9/G007
- 10.55 ROOM IDENTIFICATION SIGNAGE, SEE DETAIL 6/G007 INCLUDE ISA SYMBOL
- 10.83 RESTROOM DOOR SIGNAGE, SEE DETAIL 3/G007
- 10.84 RESTROOM DOOR SIGNAGE, SEE DETAIL 3/G007 INCLUDE ISA SYMBOL
- 10.85 EXIT SIGNAGE, SEE DETAIL 1/G007
- 10.87 ASSISTIVE LISTENING DEVICE SIGNAGE, SEE DETAIL 5/G007
- 10.88 MAXIMUM ROOM OCCUPANCY SIGNAGE, SEE DETAIL 7/G007

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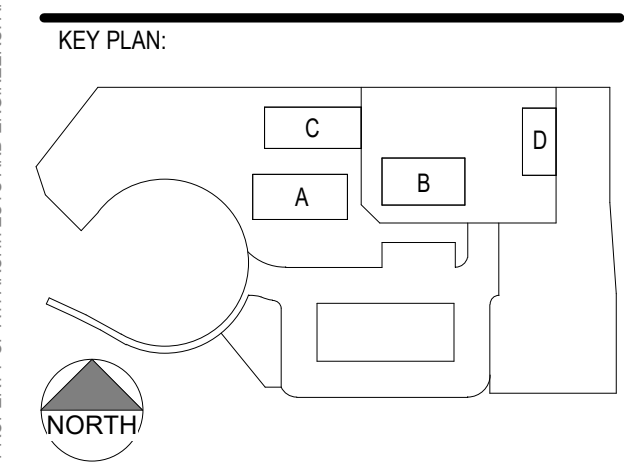
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 ANNA T. WIN  
 C 23260  
 Exp. Apr. 30, 2021  
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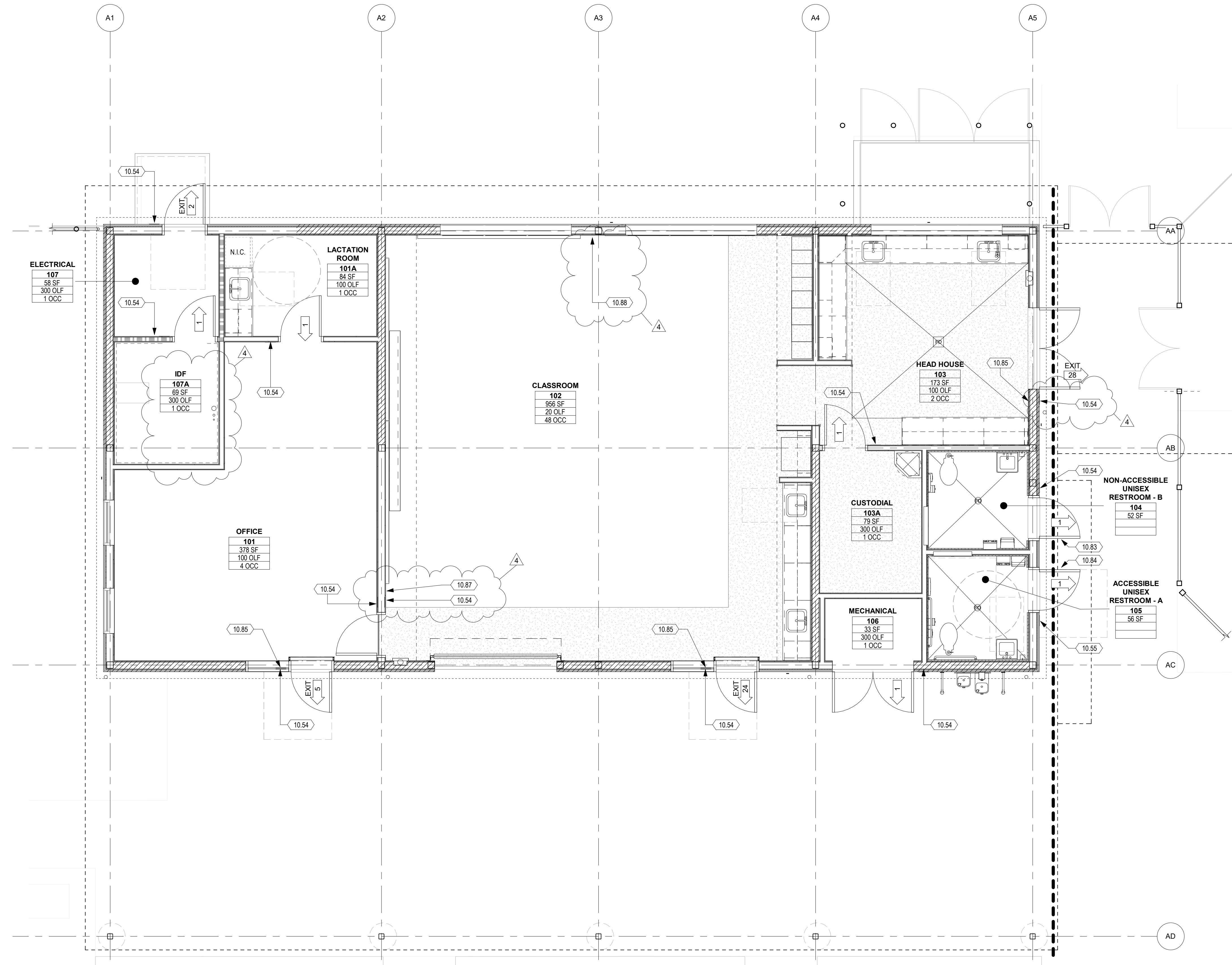


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**CLASSROOM BUILDING SIGNAGE & EXITING PLAN**

DRAWN BY: Author CHECKED BY: Checker  
 DATE: 01/14/2021 PROJECT NO: C9508  
 SHEET NO:

**AA122**



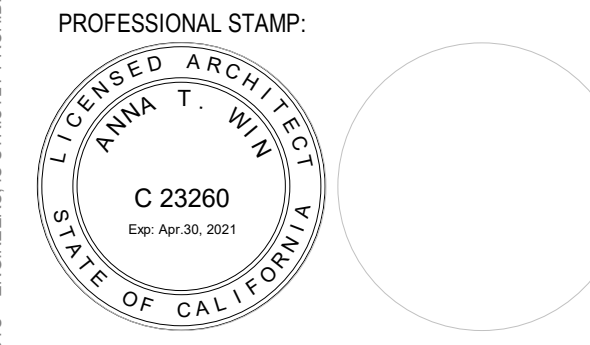
**1 SIGNAGE & EXITING PLAN**  
 1/4" = 1'-0"



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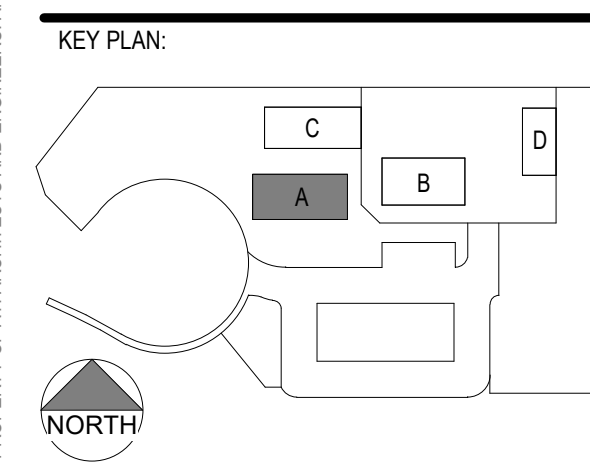


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3	ADDENDUM 3	03/17/21
4	ADDENDUM 4	Date 4



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**CLASSROOM BUILDING REFLECTED CEILING PLAN**

DRAWN BY: EA CHECKED BY: AW  
DATE: 01/14/2021 PROJECT NO: C9508  
SHEET NO:

**AA141**

**RCP SHEET NOTES**

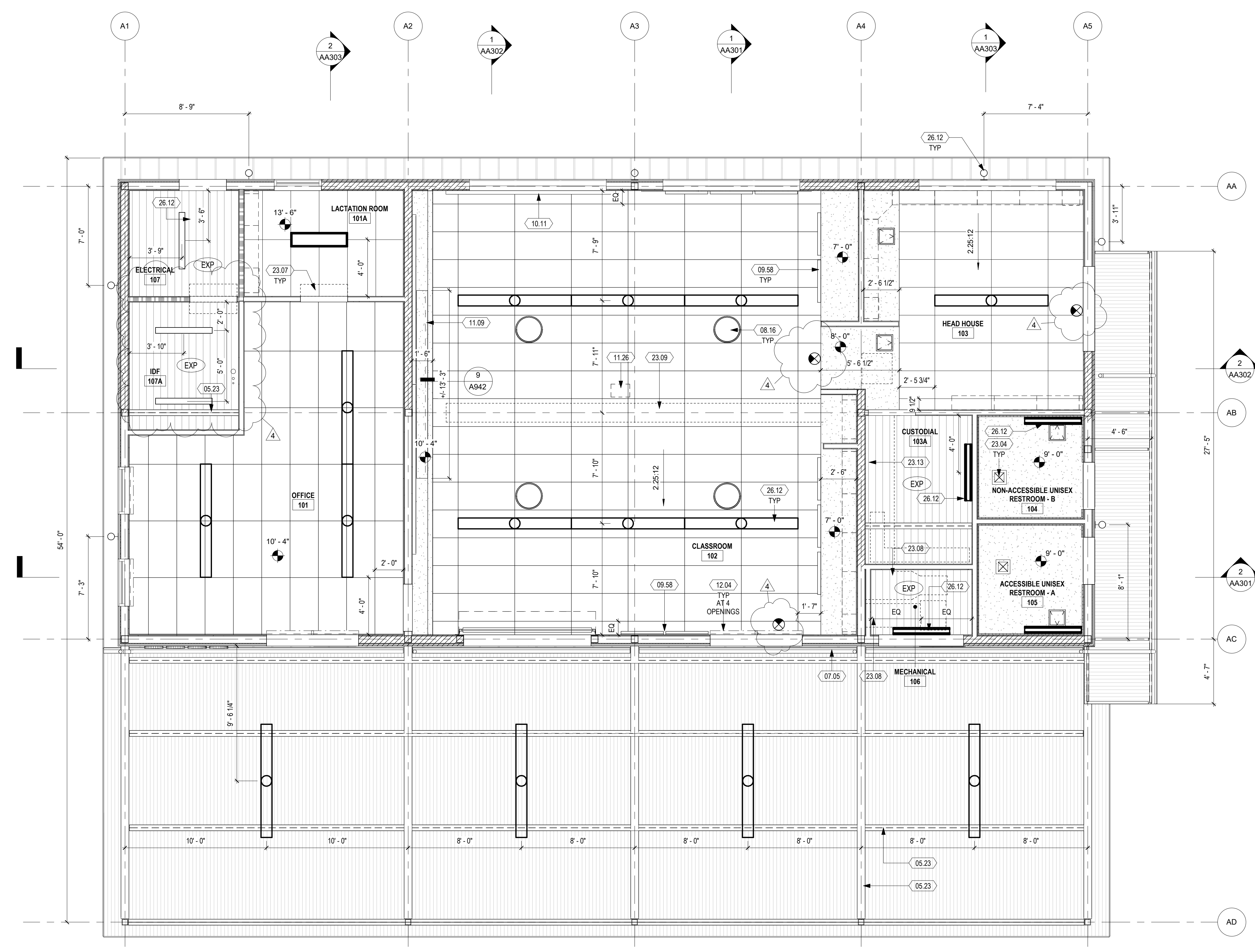
- REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES.
- LIGHT FIXTURES ARE LOCATED FROM FACE OF FINISH, U.O.N.
- WALL MOUNTED FIXTURES ARE 6'-8" CLEAR ABOVE FINISH FLOOR, U.O.N.
- REFER TO MECHANICAL DRAWINGS FOR CEILING REGISTERS AND DIFFUSERS.
- REFER TO ELECTRICAL DRAWINGS FOR FIRE ALARM AND EXIT SIGNS NOT DEPICTED ON THIS PLAN. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION.
- ALL ROOF STRUCTURE, PIPES, CONDUIT, EQUIPMENT AND DEVICES EXPOSED TO ROOM BELOW SHALL BE PRIMED AND PAINTED.
- ALL EXPOSED DUCTWORK, PIPE, EQUIPMENT THAT IS NOT FACTORY FINISHED IS TO BE PAINTED.

**SHEET KEYNOTES**

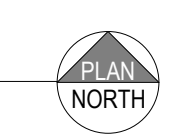
- STRUCTURAL STEEL BEAM, S.S.D.
- METAL GUTTER
- TUBULAR SKYLIGHT LENS DIFFUSER
- ACOUSTICAL WALL PANEL, 1" THICK, NRC=0.85 MIN.
- PROJECTION MARKERBOARD, 8'W X 5'H TYP.
- PROJECTION SCREEN
- PROJECTOR, FORWARD PROJECTION (OFCI)
- ROLLER SHADE, FOR MOUNTING SEE DETAIL 5/A970
- EXHAUST AIR GRILLE, S.M.D.
- FAN COIL UNIT, S.M.D.
- MECHANICAL EQUIPMENT, S.M.D., PAINT
- EXPOSED SHEET METAL DUCT, PRIMED AND PAINTED AS SCHEDULED, S.M.D.
- MECHANICAL DUCT, S.M.D.
- LIGHT FIXTURE, S.E.D. AND LUMINAIRE SCHEDULE

**RCP LEGEND**

- 10'-0" CEILING HEIGHT TAG
- EXP. EXPOSED STRUCTURE
- 2'x4' SUSPENDED ACP-1 DETAIL
- GYPSUM BOARD CEILING ATTACHED TO FRAMING
- EXPOSED METAL DECK
- SUPPLY AIR DIFFUSER
- RETURN REGISTER
- EXHAUST REGISTER
- 12"x12" CEILING ACCESS PANEL
- SURFACE MOUNTED FIXTURE, S.E.D.
- LED EXTERIOR LIGHT - WALL MOUNT, S.E.D.
- LED PENDANT STRIP LIGHT, S.E.D.
- WALL MOUNTED FIXTURE, S.E.D.
- WALL MOUNTED EXIT SIGN, S.E.D.

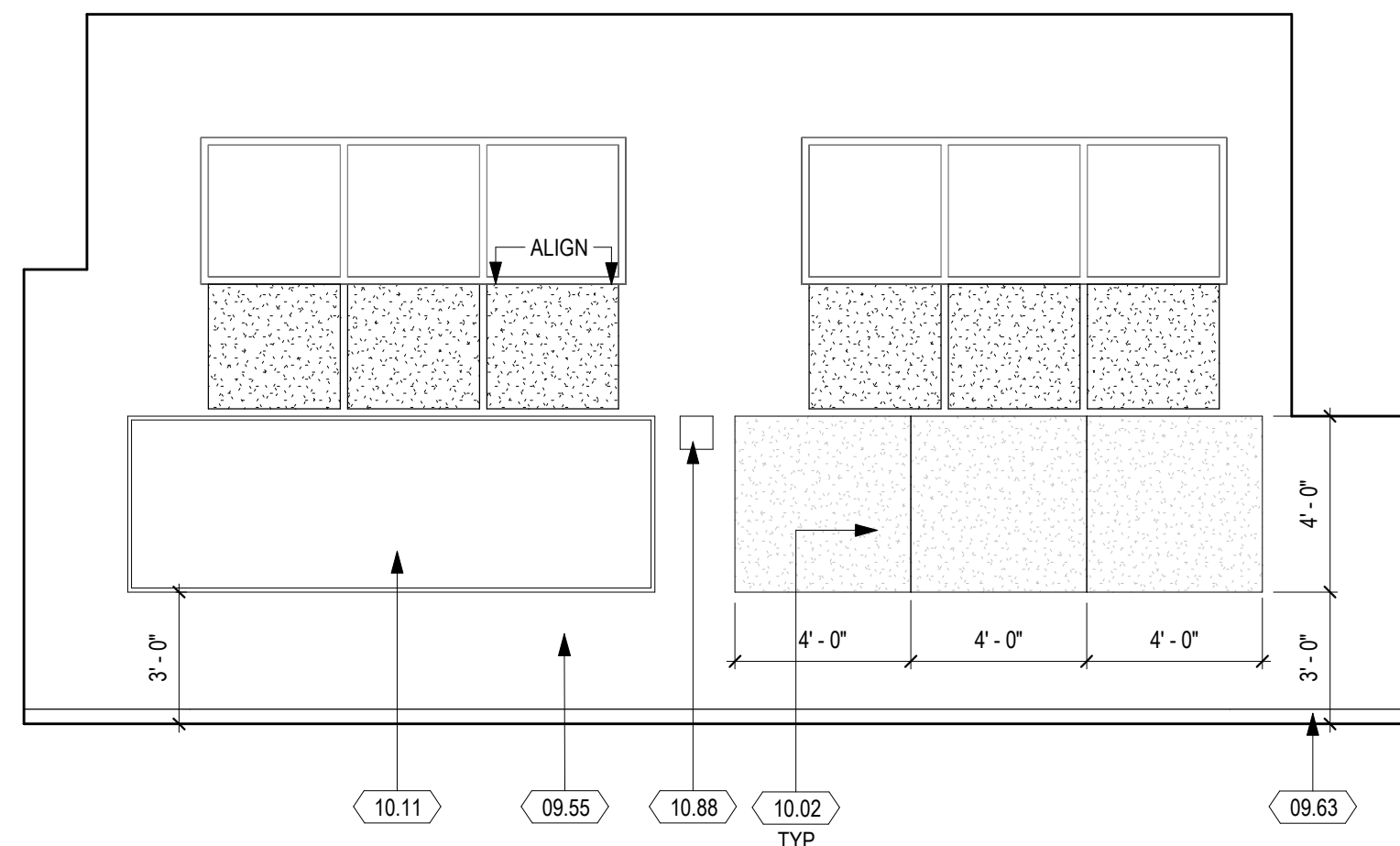


**1 Level 1**  
1/4" = 1'-0"

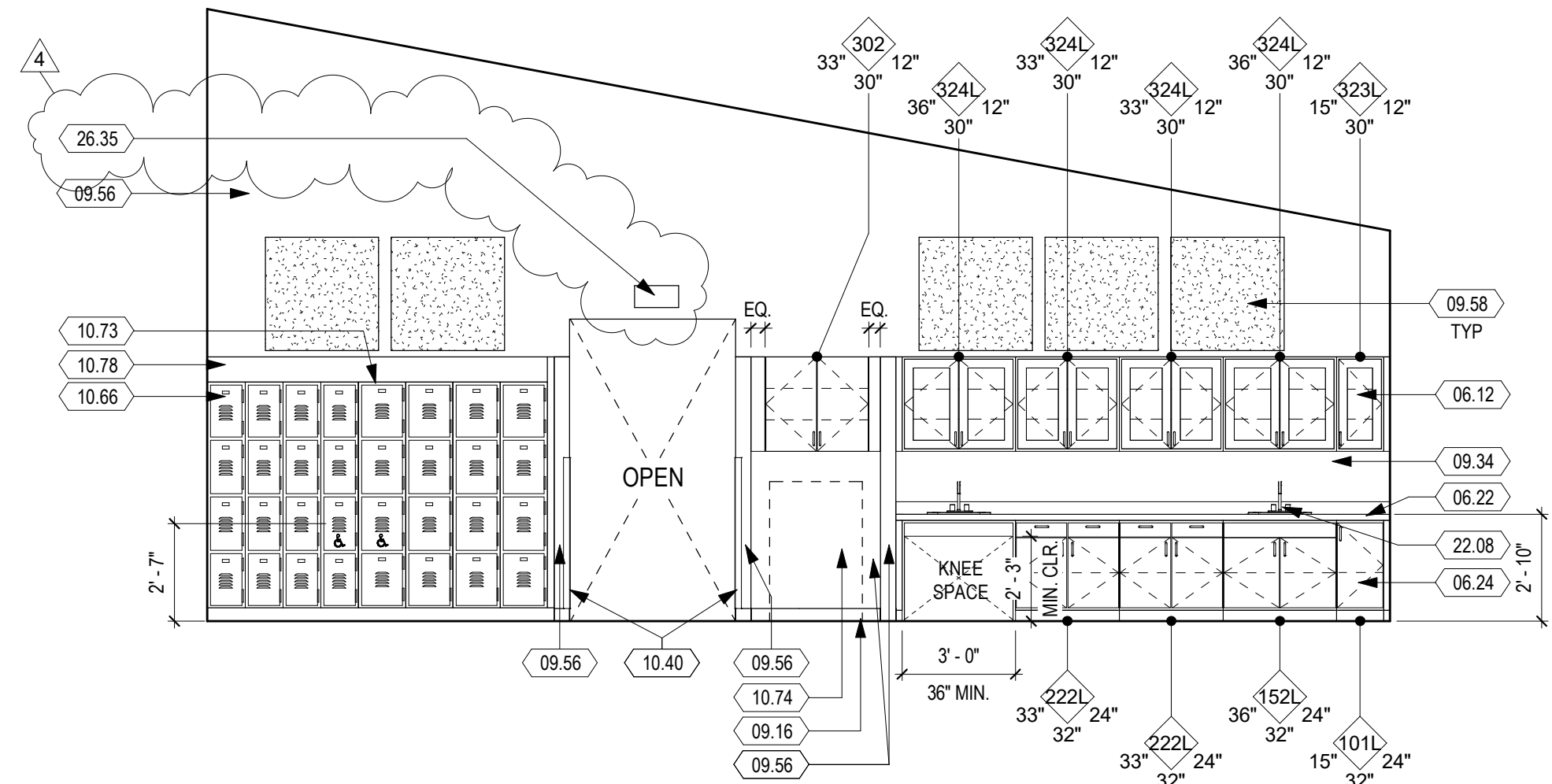


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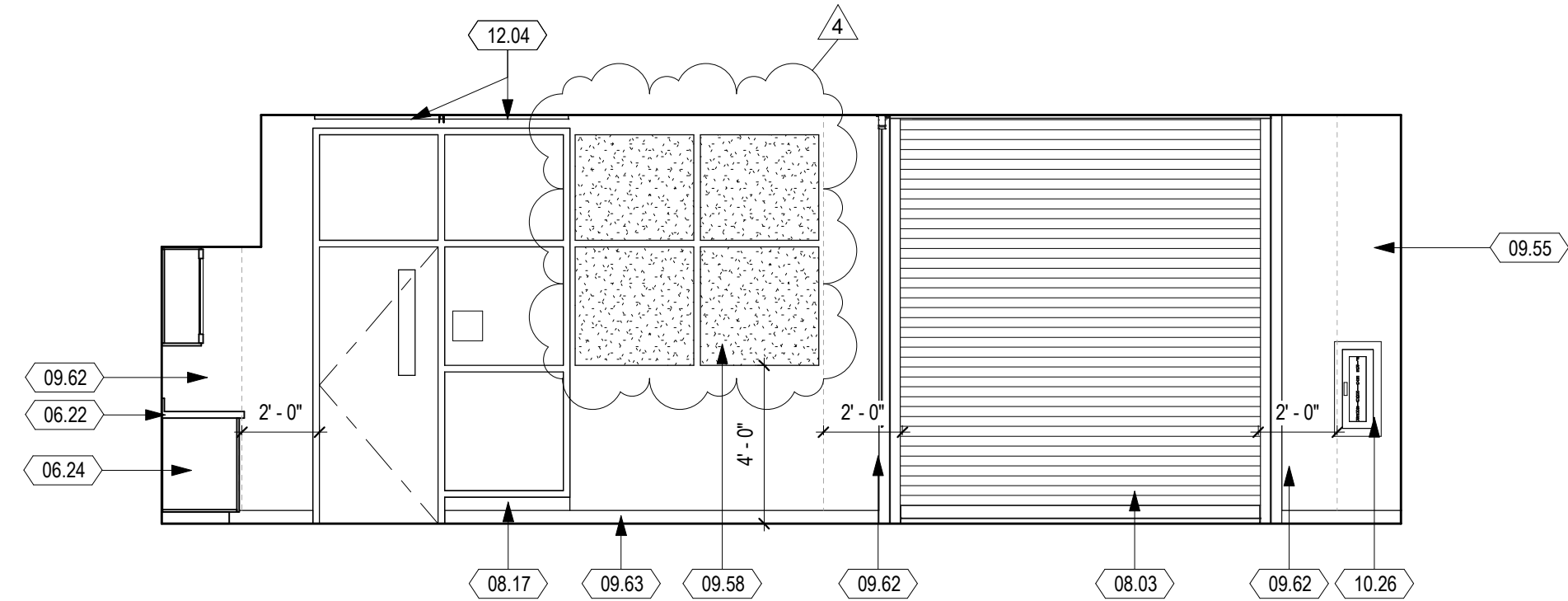




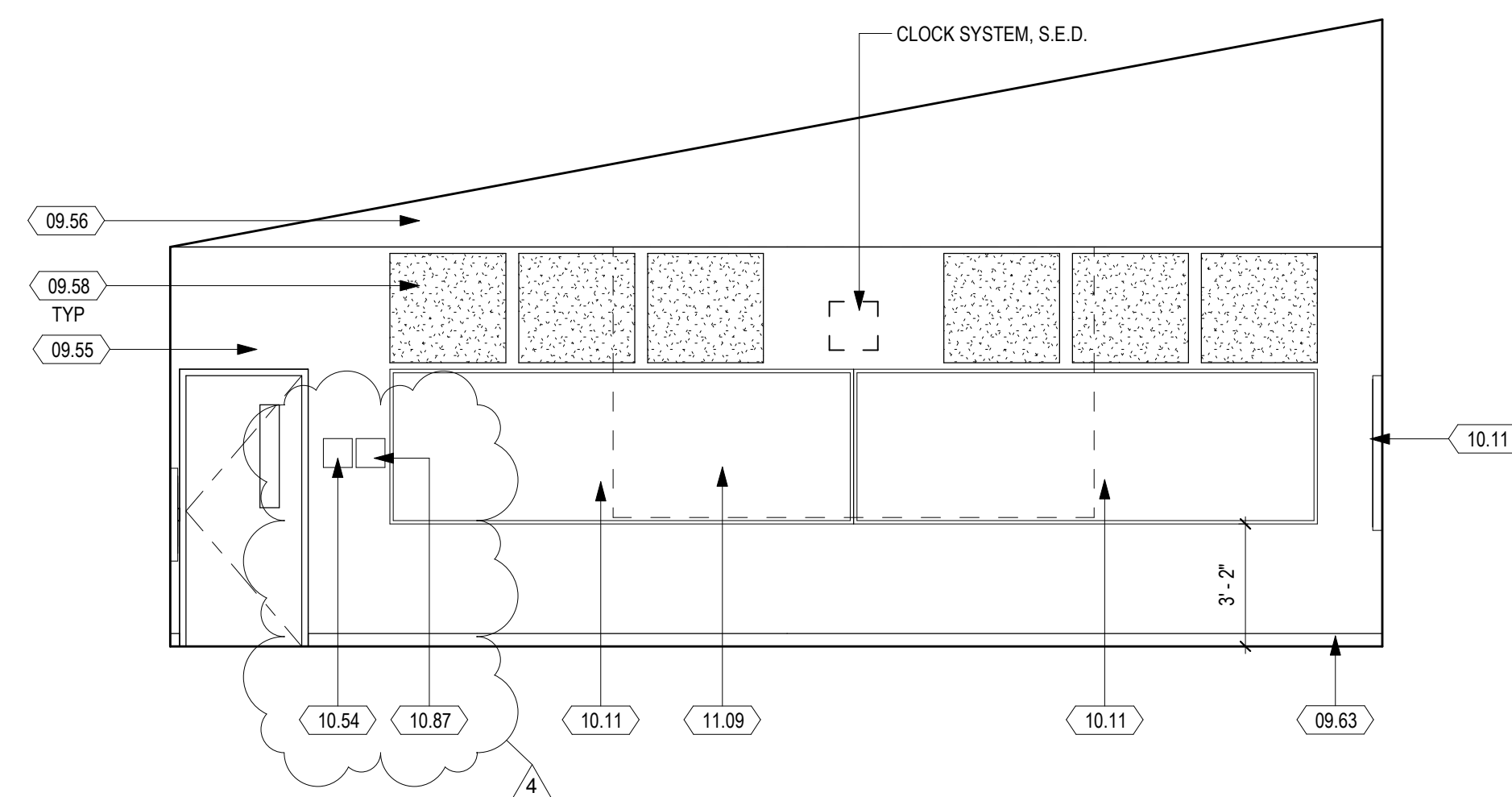
**1 CLASSROOM - NORTH**  
1/4" = 1'-0"



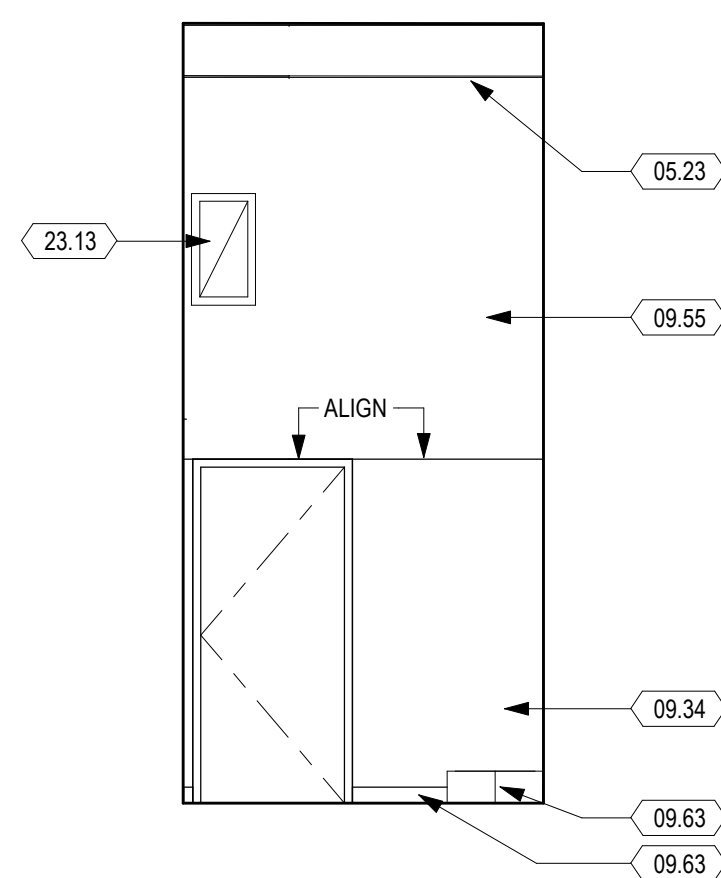
**2 CLASSROOM - EAST**  
1/4" = 1'-0"



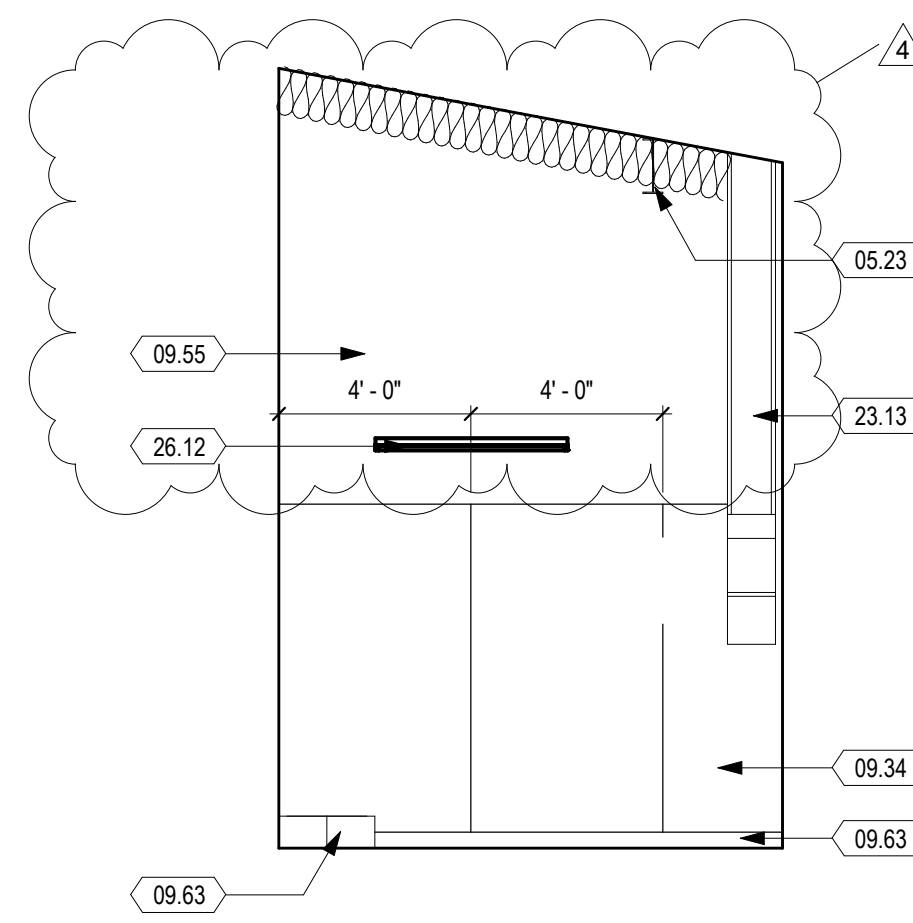
**3 CLASSROOM - SOUTH**  
1/4" = 1'-0"



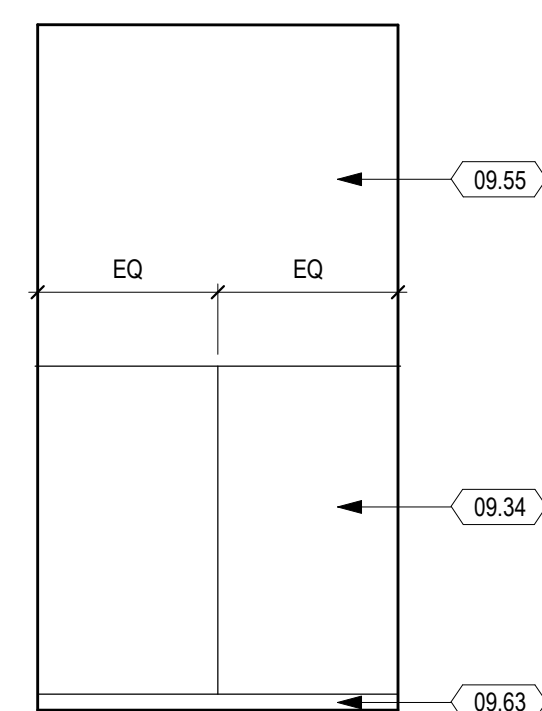
**4 CLASSROOM - WEST**  
1/4" = 1'-0"



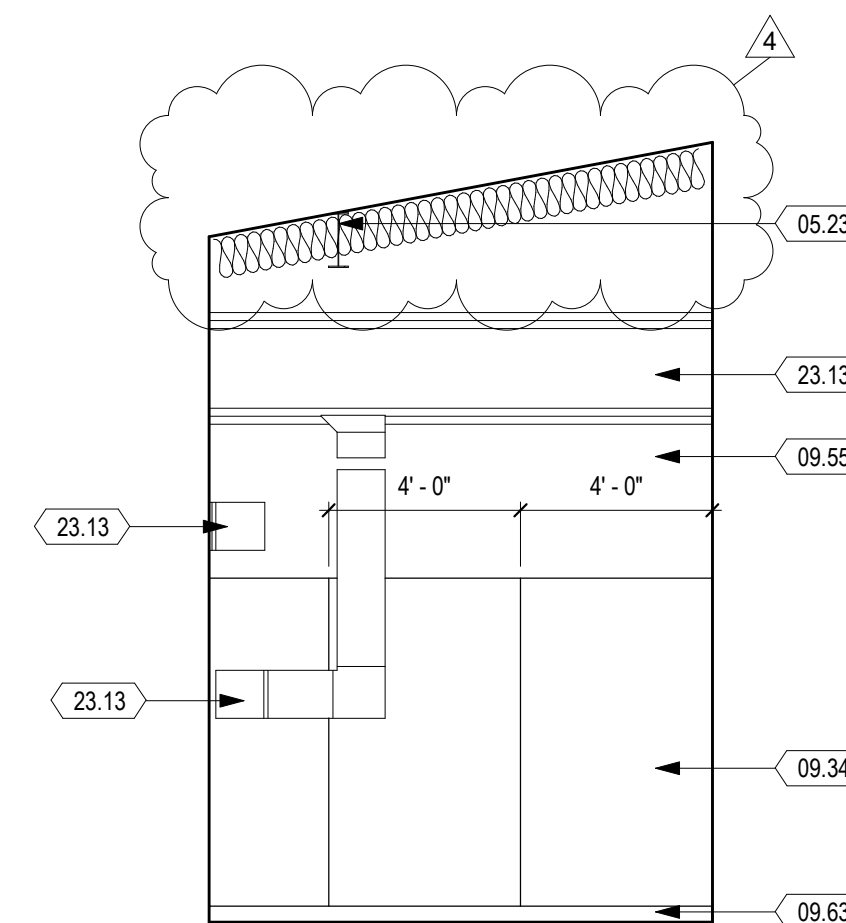
**5 CUSTODIAL - NORTH**  
1/4" = 1'-0"



**7 CUSTODIAL - EAST**  
1/4" = 1'-0"



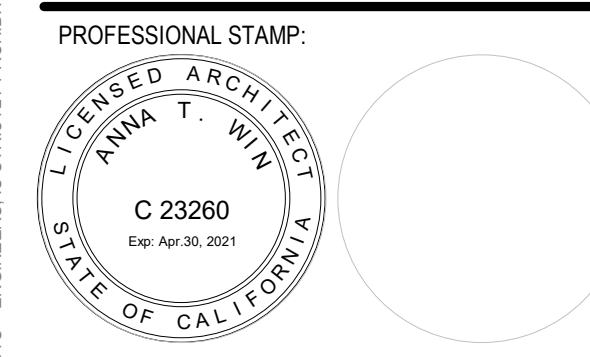
**6 CUSTODIAL - SOUTH**  
1/4" = 1'-0"



**8 CUSTODIAL - WEST**  
1/4" = 1'-0"

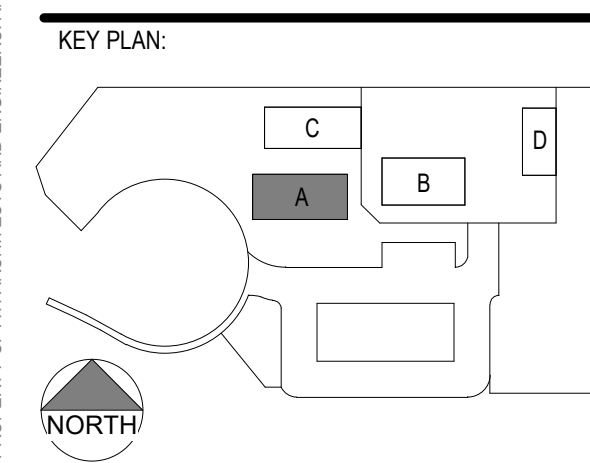
**SHEET KEYNOTES**

- 05.23 STRUCTURAL STEEL BEAM, S.S.D.
- 06.12 UPPER CABINET
- 06.22 RESIN COUNTER TOP
- 06.24 LOWER CABINET, LOCKABLE
- 08.03 OVERHEAD COILING DOOR
- 08.17 ALUMINUM STOREFRONT SILL EXTENDER
- 09.16 6" RESILIENT BASE
- 09.34 FIBER REINFORCED PLASTIC PANELS
- 09.55 GYPSUM BOARD, PAINTED, PT-1
- 09.56 GYPSUM BOARD, PAINTED, PT-2
- 09.58 ACOUSTICAL WALL PANEL, 1" THICK, NRC=0.85 MIN.
- 09.62 MOISTURE-RESISTANT GYPSUM BOARD, PAINTED, PT-1
- 09.63 SELF-COVED EPOXY FLOORING
- 10.02 TACKBOARD
- 10.11 PROJECTION MARKERBOARD, 8W X 5H TYP.
- 10.26 FIRE EXTINGUISHER IN RECESSED MOUNTED CABINET, SEE DETAIL 2/A992
- 10.40 STAINLESS STEEL CORNER GUARD
- 10.54 ROOM IDENTIFICATION SIGNAGE, SEE DETAIL 6/G007
- 10.66 78" 4-TIER 12" METAL LOCKERS
- 10.73 78" 4-TIER 15" METAL LOCKERS
- 10.74 LAPTOP CART, N.I.C.
- 10.78 METAL LOCKER TOP CLOSURE PIECE
- 10.87 ASSISTIVE LISTENING DEVICE SIGNAGE, SEE DETAIL 5/G007
- 10.88 MAXIMUM ROOM OCCUPANCY SIGNAGE, SEE DETAIL 7/G007
- 11.09 PROJECTION SCREEN
- 12.04 ROLLER SHADE, FOR MOUNTING SEE DETAIL 5/A970
- 22.08 DROP-IN STAINLESS STEEL SINK (ADA)
- 23.08 MECHANICAL EQUIPMENT, S.M.D., PAINT
- 23.09 EXPOSED SHEET METAL DUCT, PRIMED AND PAINTED AS SCHEDULED, S.M.D.
- 23.13 MECHANICAL DUCT, S.M.D.
- 26.12 LIGHT FIXTURE, S.E.D. AND LUMINAIRE SCHEDULE
- 26.35 WALL-MOUNTED EXIT SIGN, S.E.D.



CONSULTANT:

ITEM	REVISION / ISSUE	DATE
4	ADDENDUM 4	Date 4



**LOCKER COUNT** (CBC)11B-811

SIZE	QTY	ACCESSIBLE
12W X 18H X 15D	16	1 (6%)
15W X 18H X 15D	16	1 (6%)

**INTERIOR SHEET NOTES**

- 1. FOR TOILET AND ACCESSORY MOUNTING HEIGHTS, SEE 3/G006
- 2. FOR ACCESSIBLE SINK DETAIL, SEE 1/A981
- 3. FOR ACCESSIBLE DRINKING FOUNTAIN, SEE 4/A992
- 4. FOR FIRE EXTINGUISHER CABINET DETAIL, SEE 2/A992
- 5. FOR CASEWORK ANCHORAGE SEE 4/A981
- 6. FOR MARKER BOARD MOUNTING, SEE 8/A992
- 7. FOR TACKBOARD MOUNTING, SEE 10/A992
- 8. FOR WINDOW SHADE MOUNTING, SEE 5/A970
- 9. FOR LOCKER DETAIL, SEE 12/A992
- 10. CASEWORK DESIGNATIONS ARE BASED ON WOODWORK INSTITUTE CABINET SERIES, SEE SPECS.

CLPCCD - LAS POSITAS COLLEGE  
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3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551

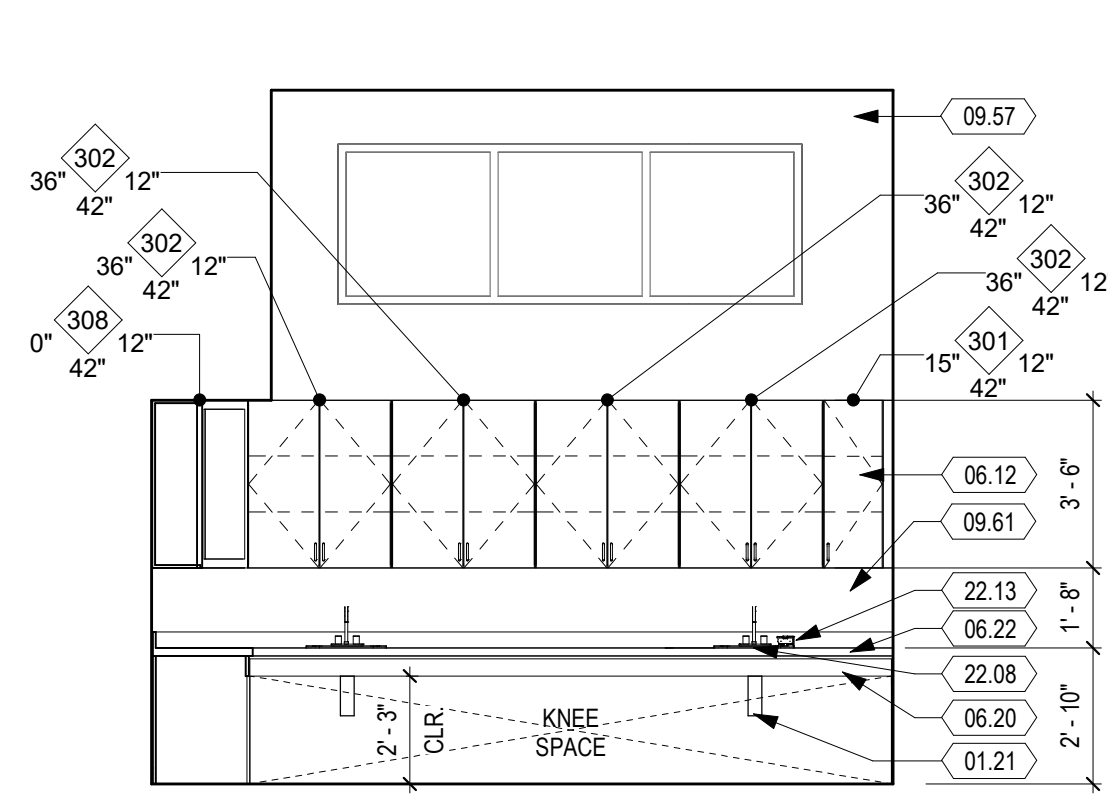
**INTERIOR ELEVATIONS**

DRAWN BY: EA CHECKED BY: AW  
DATE: 01/14/2021 PROJECT NO: C9508  
SHEET NO:

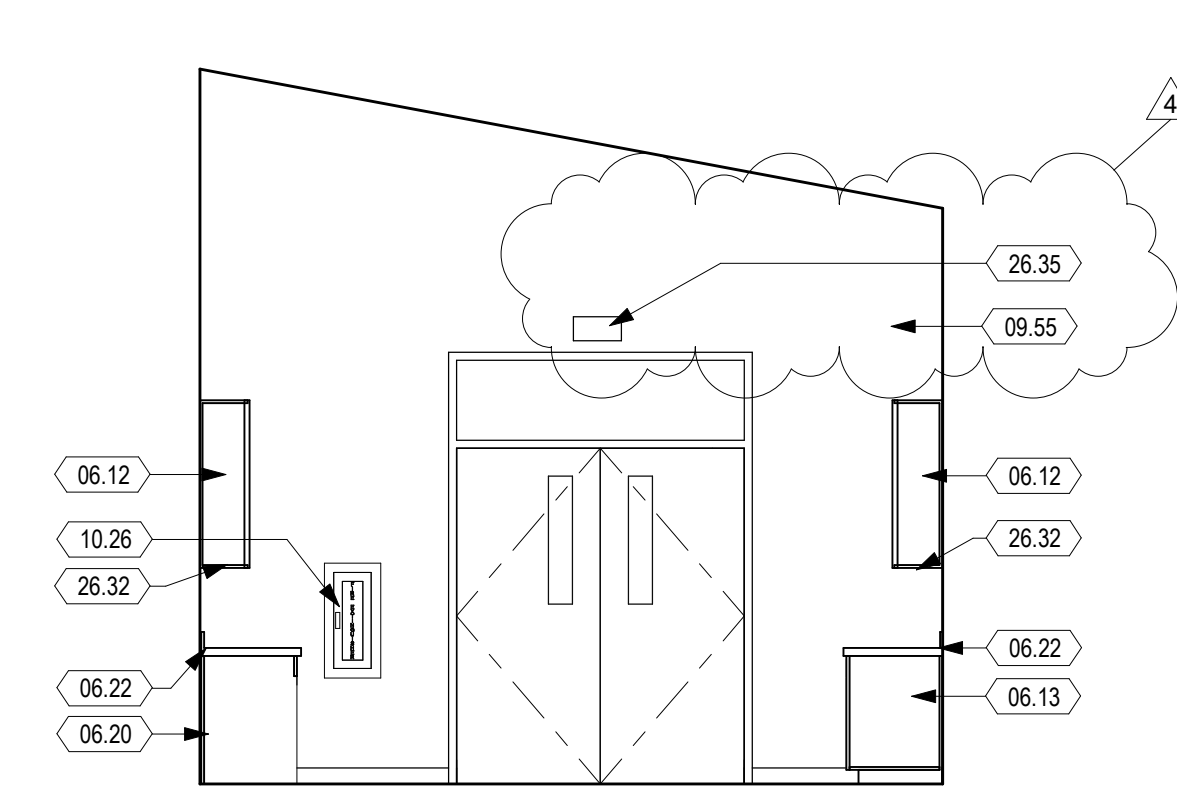
**AA501**

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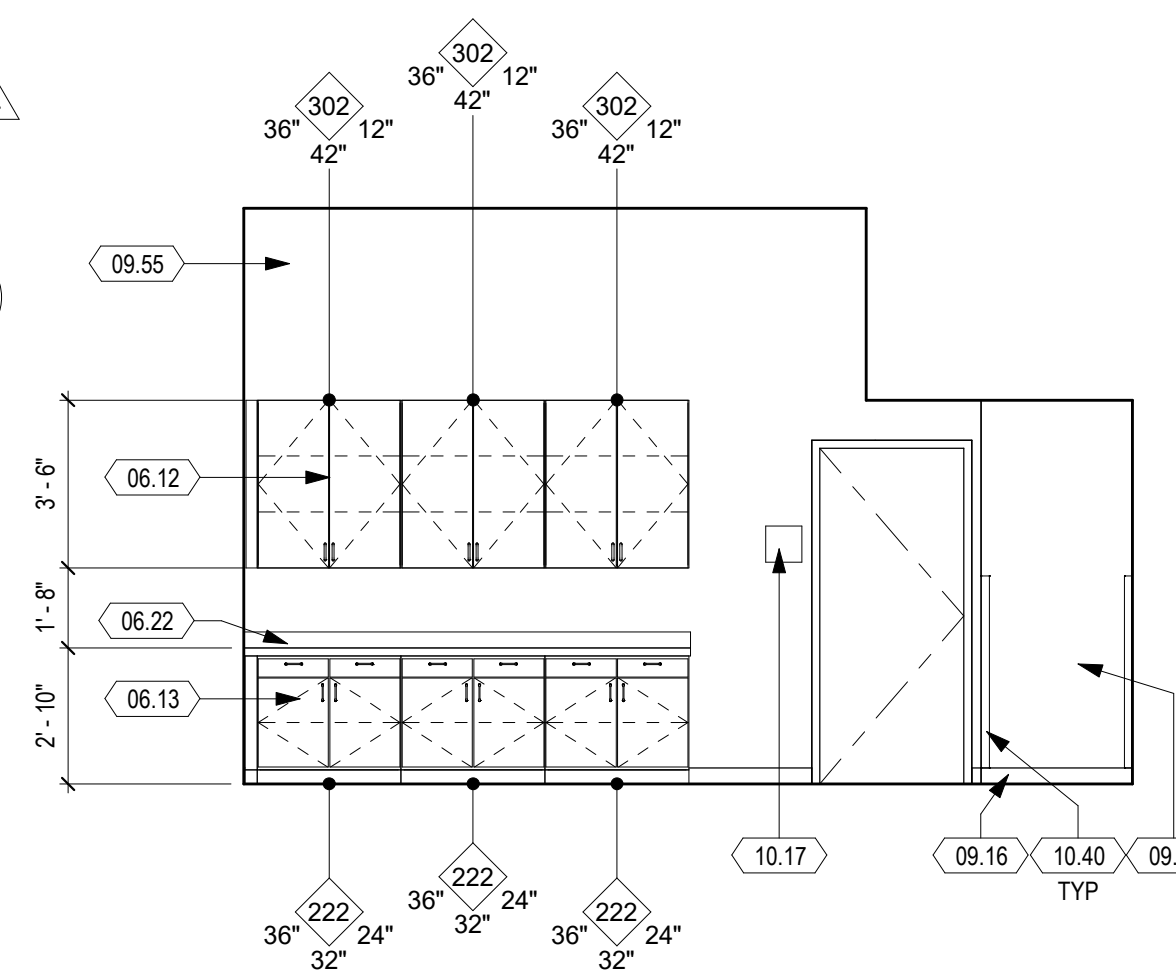
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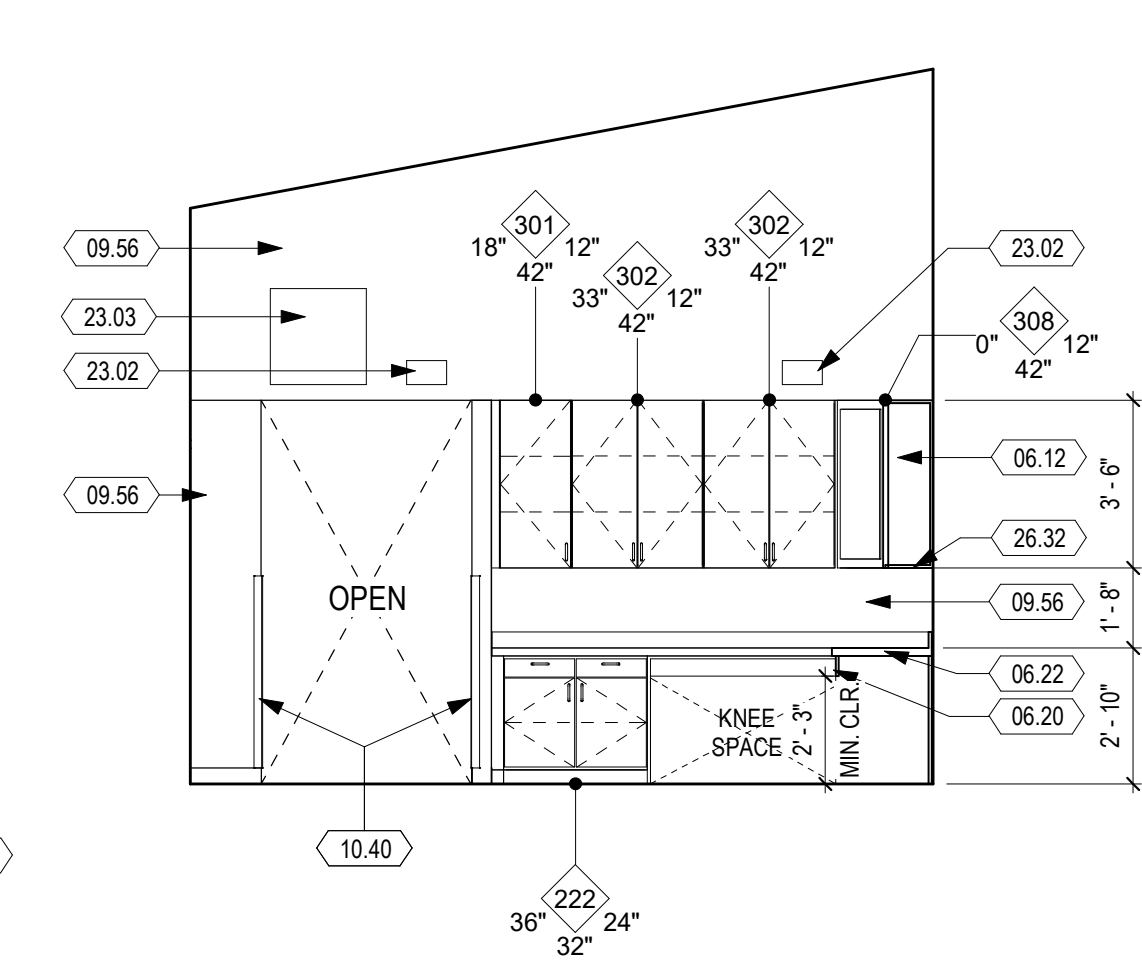
**4 HEAD HOUSE - NORTH**  
1/4" = 1'-0"



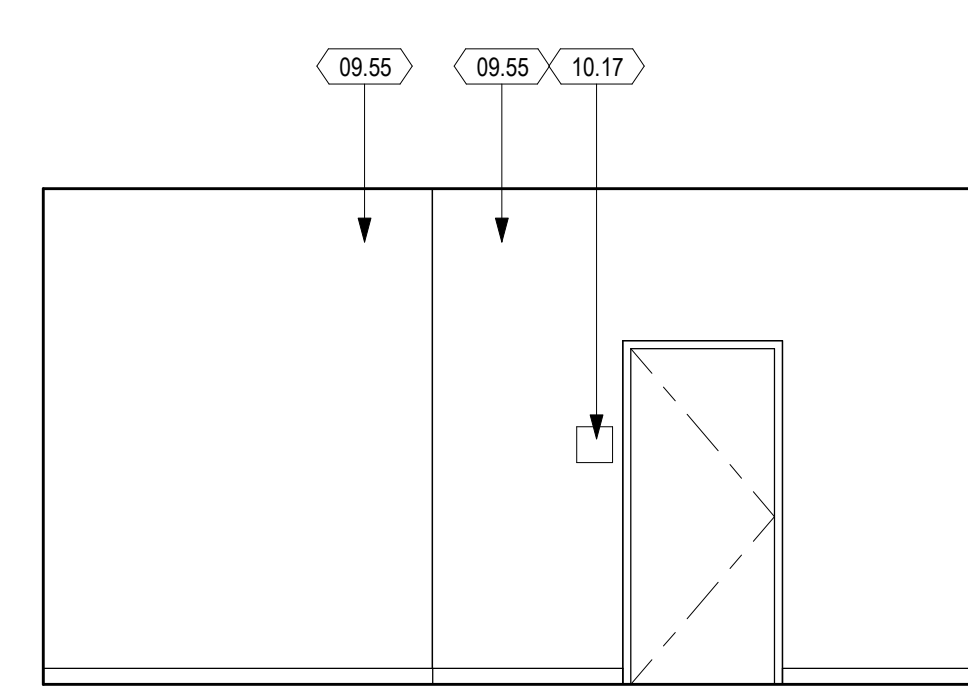
**3 HEAD HOUSE - EAST**  
1/4" = 1'-0"



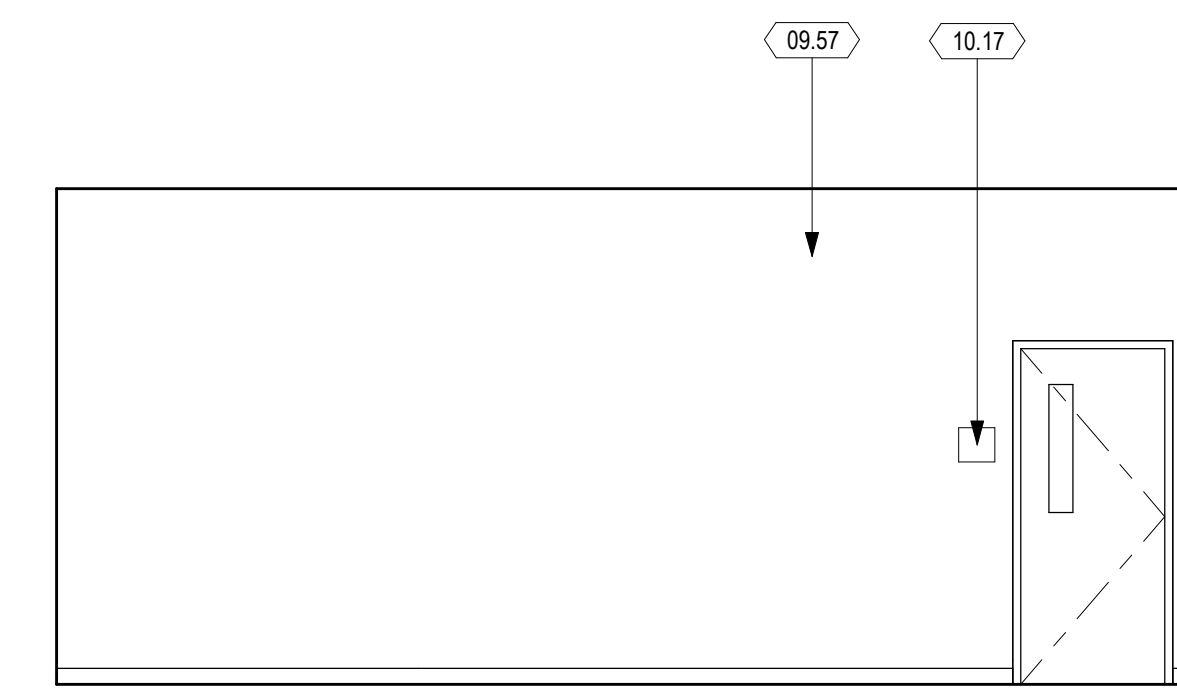
**2 HEAD HOUSE - SOUTH**  
1/4" = 1'-0"



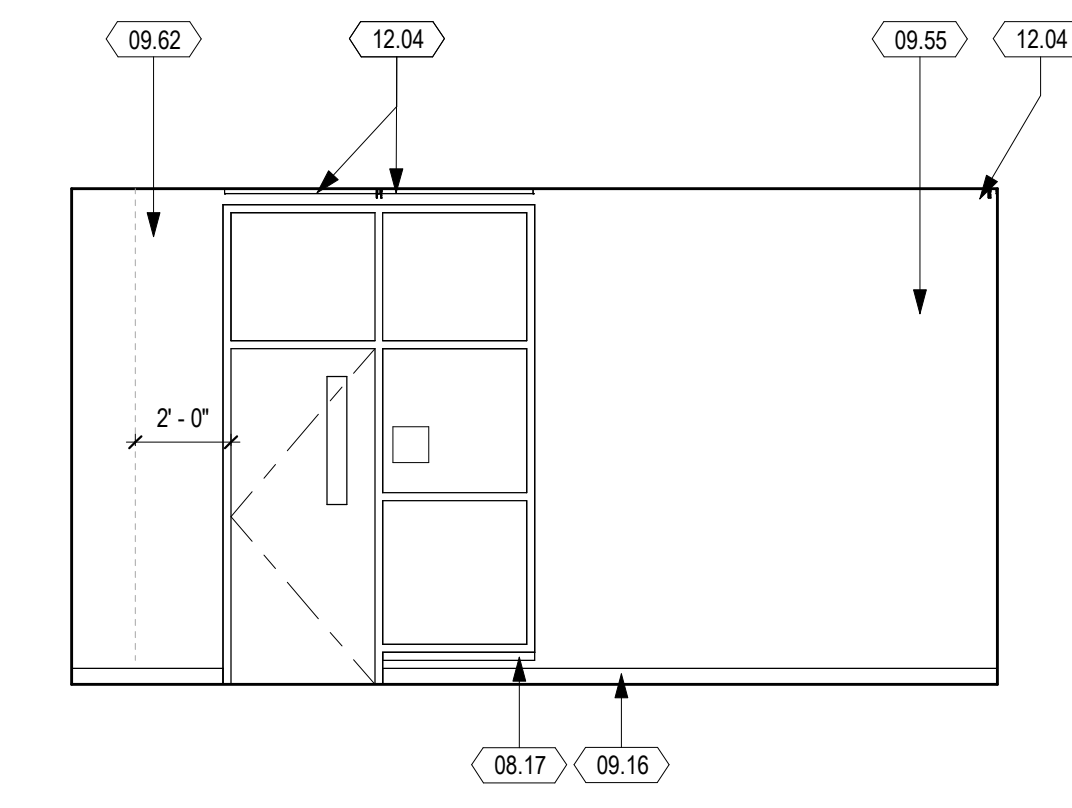
**1 HEAD HOUSE - WEST**  
1/4" = 1'-0"



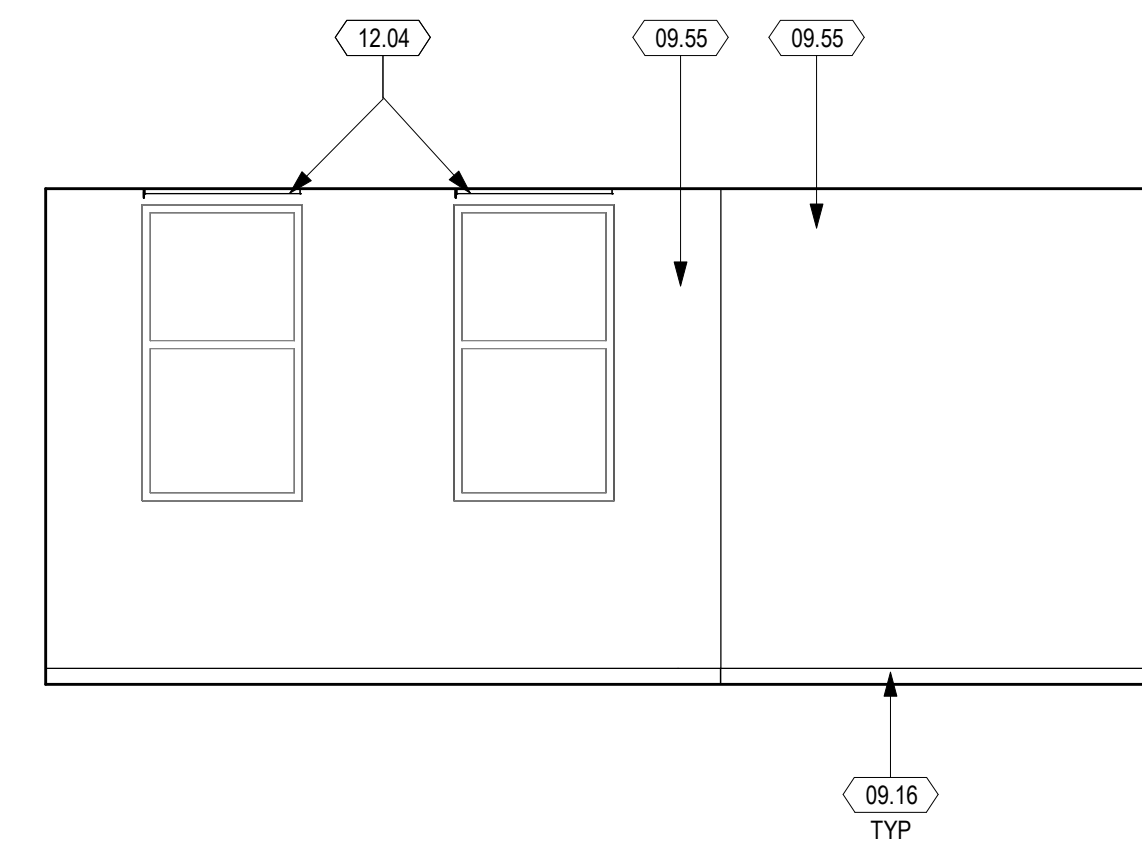
**8 OFFICE - NORTH**  
1/4" = 1'-0"



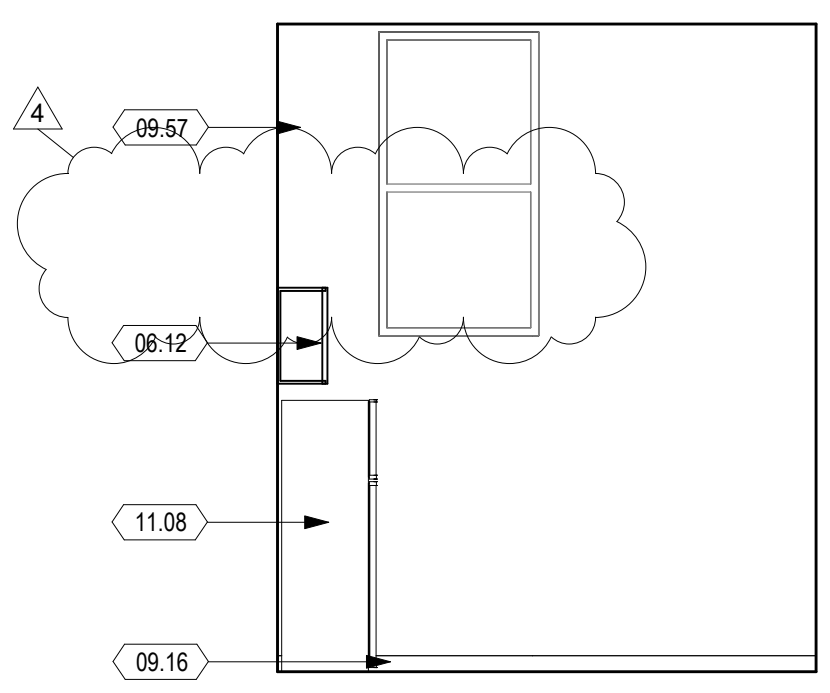
**7 OFFICE - EAST**  
1/4" = 1'-0"



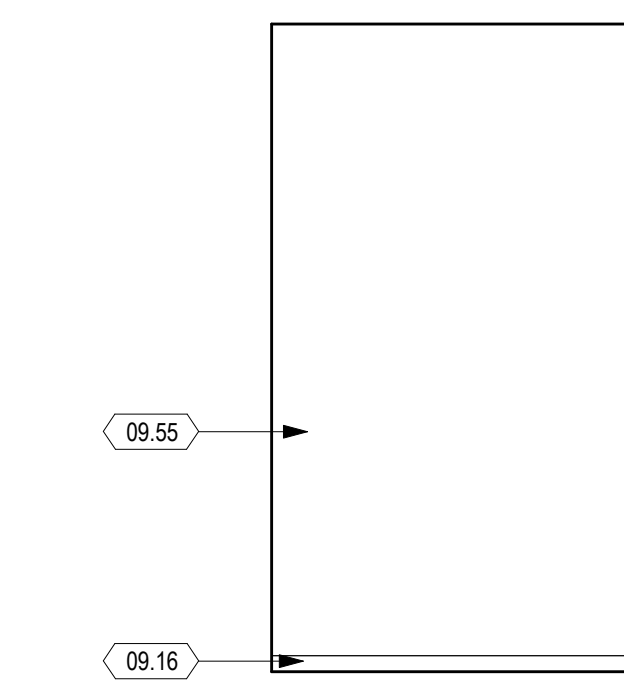
**6 OFFICE - SOUTH**  
1/4" = 1'-0"



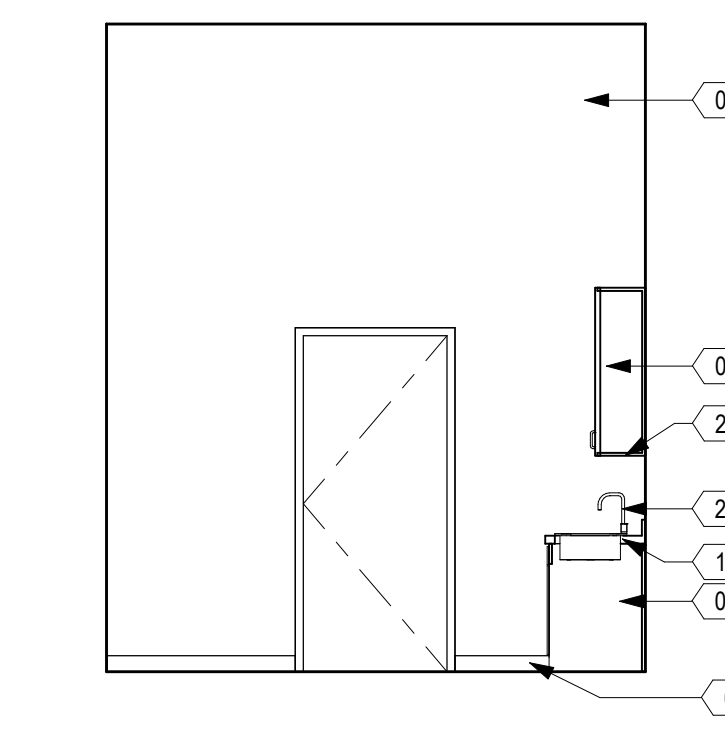
**5 OFFICE - WEST**  
1/4" = 1'-0"



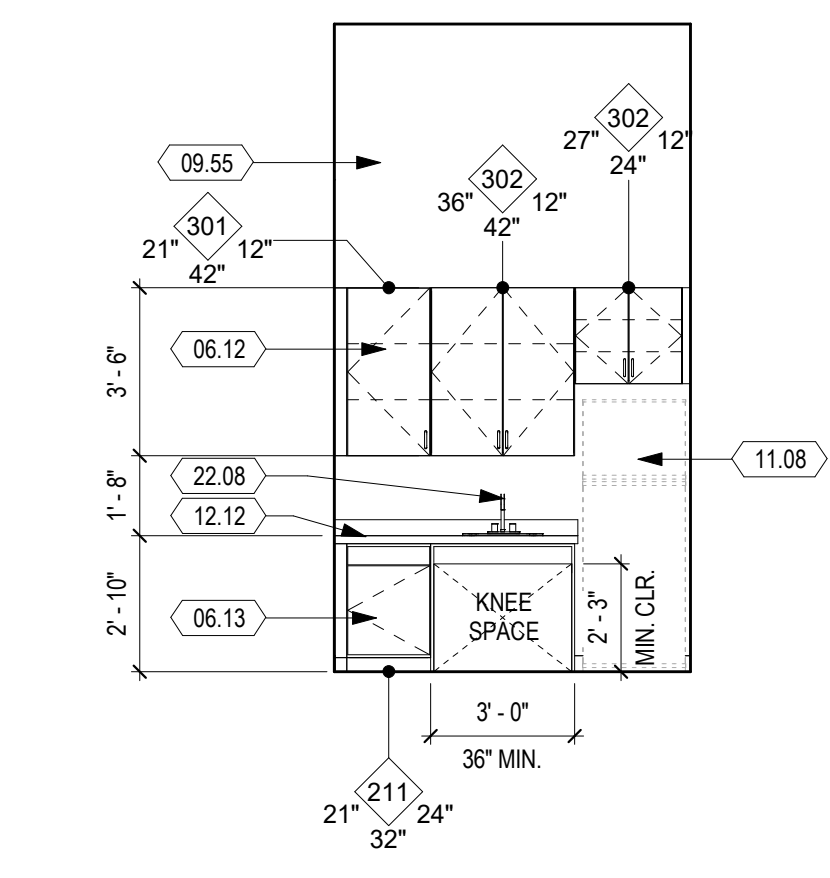
**12 LACTATION ROOM - NORTH**  
1/4" = 1'-0"



**11 LACTATION ROOM - EAST**  
1/4" = 1'-0"



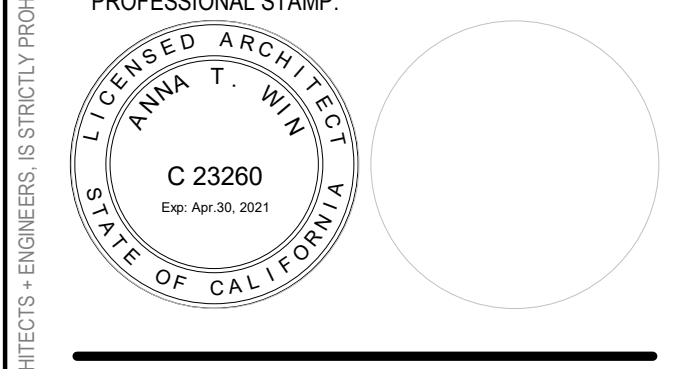
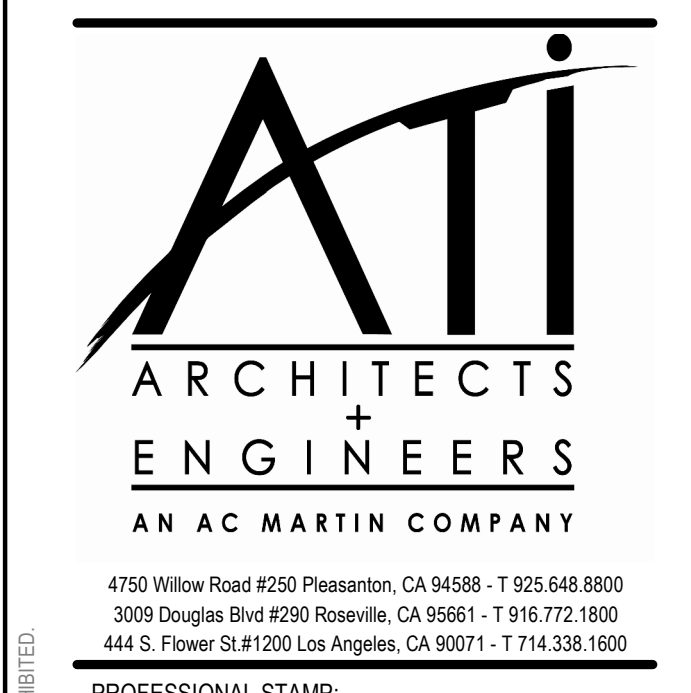
**10 LACTATION ROOM - SOUTH**  
1/4" = 1'-0"



**9 LACTATION ROOM - WEST**  
1/4" = 1'-0"

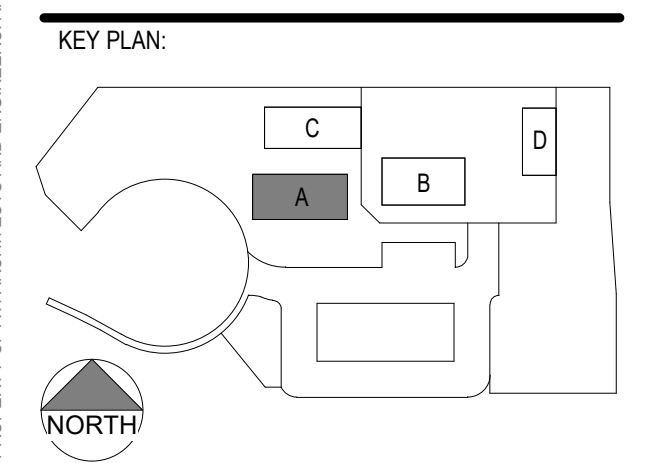
**SHEET KEYNOTES**

- 01.21 INSULATED EXPOSED HOT WATER AND DRAIN PIPES
- 06.12 UPPER CABINET
- 06.13 LOWER CABINET
- 06.20 COUNTER APRON, 2'-3" CLR
- 06.22 RESIN COUNTER TOP
- 08.17 ALUMINUM STOREFRONT SILL EXTENDER
- 09.16 6" RESILIENT BASE
- 09.55 GYPSUM BOARD, PAINTED, PT-1
- 09.56 GYPSUM BOARD, PAINTED, PT-2
- 09.57 FIBER REINFORCED PLASTIC PANELS TO UNDERSIDE OF UPPER CABINETS
- 09.61 MOISTURE-RESISTANT GYPSUM BOARD, PAINTED, PT-1
- 10.17 SIGNAGE PER DOOR SCHEDULE
- 10.26 FIRE EXTINGUISHER IN RECESSED MOUNTED CABINET, SEE DETAIL 2/A992
- 10.40 STAINLESS STEEL CORNER GUARD
- 11.08 REFRIGERATOR (FOI)
- 12.04 ROLLER SHADE, FOR MOUNTING SEE DETAIL 5/A970
- 12.12 SOLID SURFACE COUNTERTOP
- 22.08 DROP-IN STAINLESS STEEL SINK (ADA)
- 22.13 DECK-MOUNTED EMERGENCY EYEWASH STATION
- 23.02 SUPPLY AIR DIFFUSER, S.M.D.
- 23.03 RETURN AIR GRILL, S.M.D.
- 23.07 FAN COIL UNIT, S.M.D.
- 26.32 UNDER-CABINET LIGHTING, S.E.D.
- 26.35 WALL-MOUNTED EXIT SIGN, S.E.D.



CONSULTANT:

ITEM:	REVISION / ISSUE:	DATE:
4	ADDENDUM 4	Date 4



CLPCCD - LAS POSITAS COLLEGE  
**AGRICULTURE SCIENCE HORTICULTURE FACILITY**  
3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551

**INTERIOR SHEET NOTES**

- 1. FOR TOILET AND ACCESSORY MOUNTING HEIGHTS, SEE 3/G006
- 2. FOR ACCESSIBLE SINK DETAIL, SEE 1/A981 4/A992
- 3. FOR ACCESSIBLE DRINKING FOUNTAIN, SEE 4/A992
- 4. FOR FIRE EXTINGUISHER CABINET DETAIL, SEE 2/A992
- 5. FOR CASEWORK ANCHORAGE SEE 4/A981
- 6. FOR MARKER BOARD MOUNTING, SEE 8/A992
- 7. FOR TACKBOARD MOUNTING, SEE 10/A992
- 8. FOR WINDOW SHADE MOUNTING, SEE 5/A970
- 9. FOR LOCKER DETAIL, SEE 12/A992
- 10. CASEWORK DESIGNATIONS ARE BASED ON WOODWORK INSTITUTE CABINET SERIES, SEE SPECS.

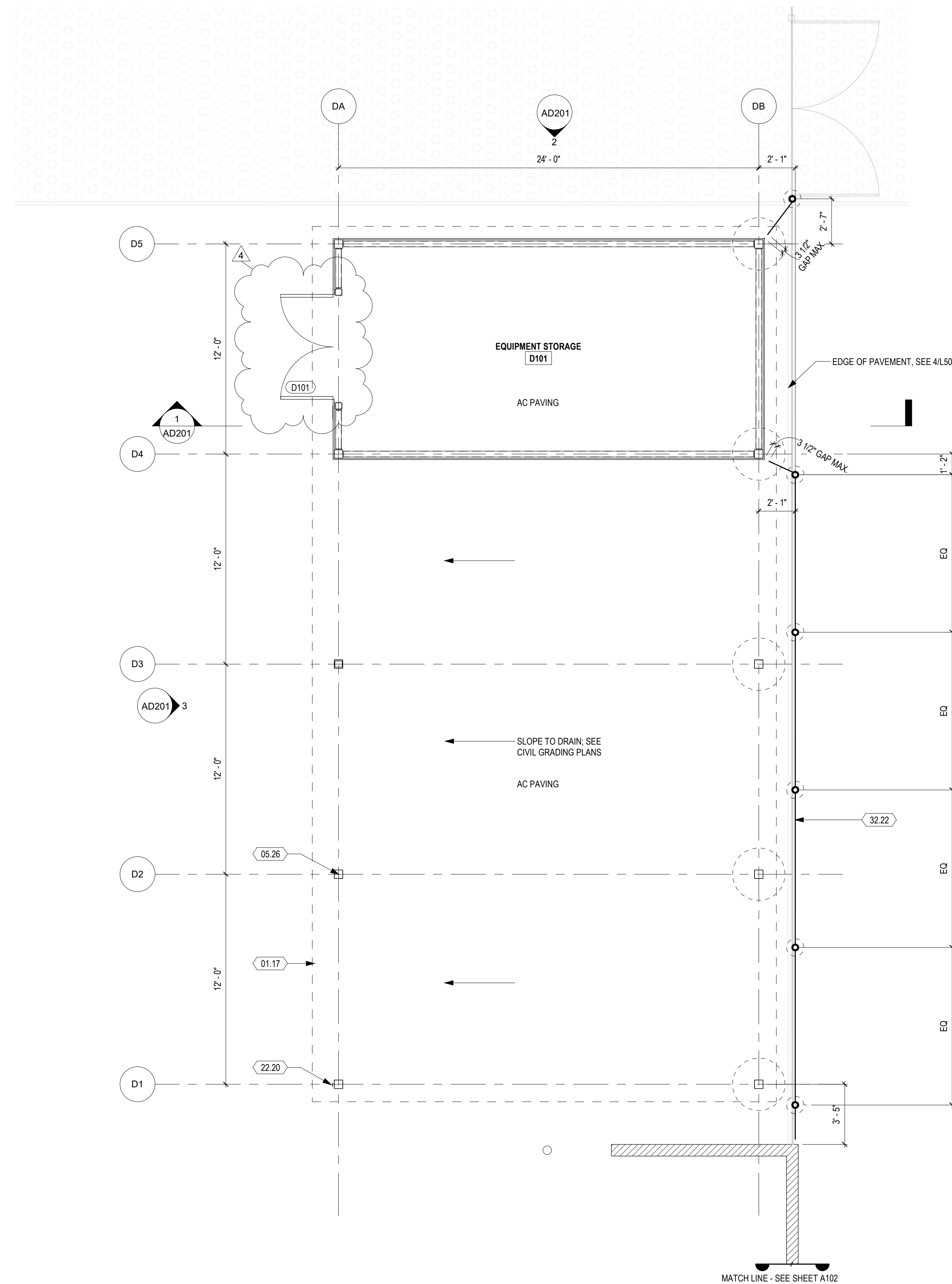
**INTERIOR ELEVATIONS**

DRAWN BY: EA CHECKED BY: AW  
DATE: 01/14/2021 PROJECT NO: C9508  
SHEET NO:

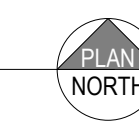
**AA502**

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3/24/2021 1:17:06 AM



**1** EQUIPMENT STORAGE FLOOR PLAN  
1/4" = 1'-0"



**GENERAL SHEET NOTES**

- 1. REFER TO MANUFACTURER DRAWINGS FOR STRUCTURAL FRAMING INFORMATION.

**SHEET KEYNOTES**

- 01.17 OUTLINE OF ROOF ABOVE
- 05.26 HSS 6X6 COLUMN, SEE EQUIPMENT STORAGE LS DRAWINGS
- 22.20 HOSE BIB
- 32.22 CHAIN LINK FENCE 6'-0"

DSA:



4750 Willow Road #250 Pleasanton, CA 94588 - T 925.648.8800  
3009 Douglas Blvd #290 Roseville, CA 95661 - T 916.772.1800  
444 S. Flower St #1200 Los Angeles, CA 90071 - T 714.338.1600

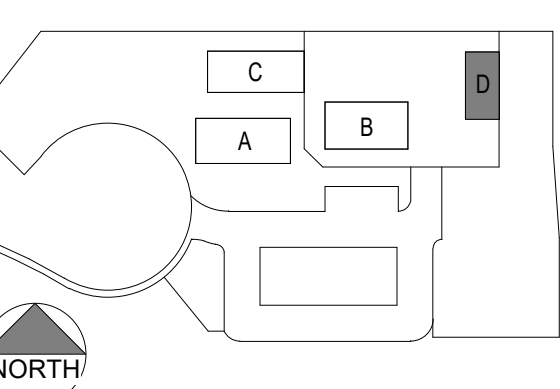
PROFESSIONAL STAMP:



CONSULTANT:

ITEM:	REVISION / ISSUE:	DATE:
2	ADDENDUM 2	03/10/21
4	ADDENDUM 4	Date 4

KEY PLAN:



CLPCCD - LAS POSITAS COLLEGE  
**AGRICULTURE SCIENCE HORTICULTURE FACILITY**  
3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551

**EQUIPMENT STORAGE FLOOR PLAN**

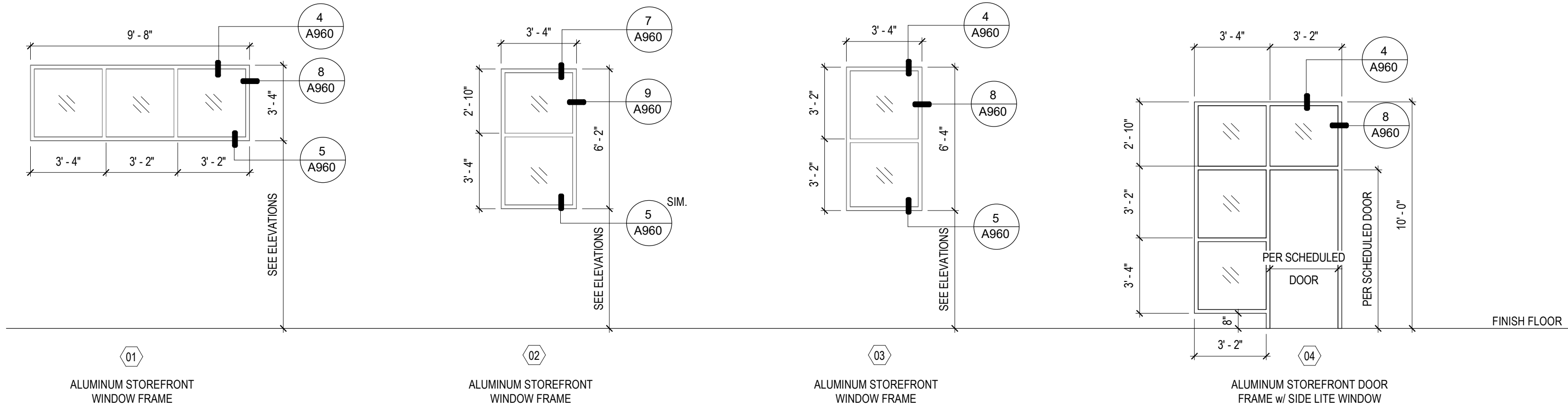
DRAWN BY: EA      CHECKED BY: AW  
DATE: 01/14/2021      PROJECT NO: CS608  
SHEET NO:

**AD121**

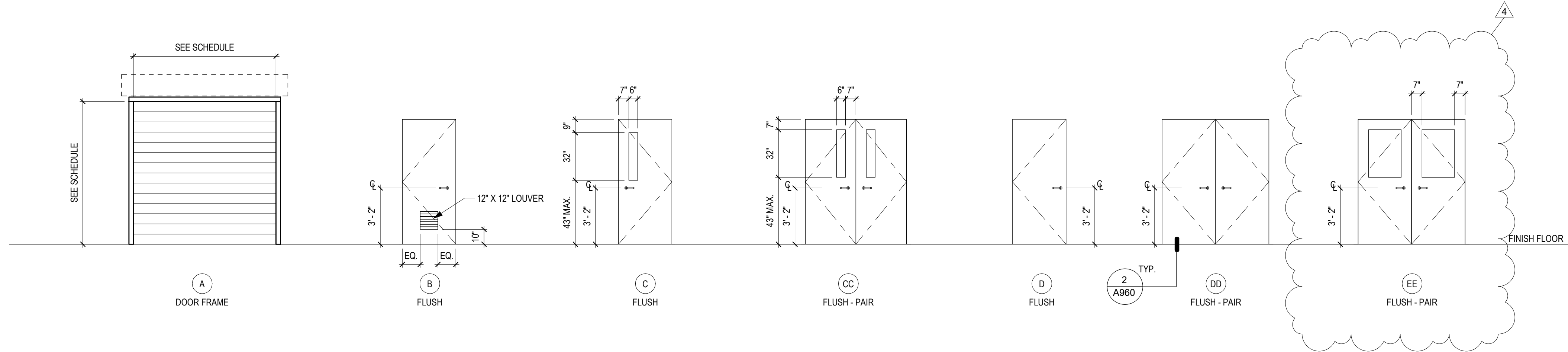
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**DOOR SCHEDULE**

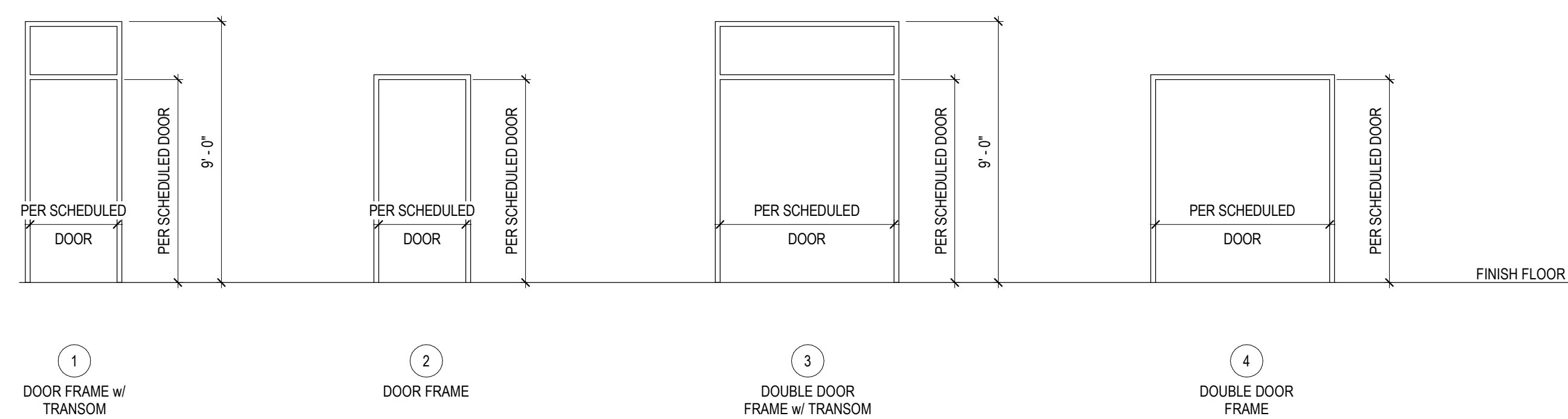
DOOR NO.	ROOM NAME	WIDTH	HEIGHT	TYPE	DOOR MATL.	DOOR FIN.	Hardware	Hardware Set	FRAME TYPE	FRAME MATL.	FRAME FIN.	COMMENTS
A101	OFFICE	3'-0"	7'-0"	C	ALUM	PAINT	No	01	STOREFRONT 4	ALUM	PAINT	3,6; ACCESS CONTROL
A101A	LACTATION ROOM	3'-0"	7'-0"	D	SC	CLEAR STAIN		02	3	HM	PAINT	3
A102	CLASSROOM	3'-0"	7'-0"	C	ALUM	PAINT	Yes	03	STOREFRONT 4	ALUM	PAINT	3,6; ACCESS CONTROL
A102A	CLASSROOM	9'-0"	11'-10"	A	MTL	--		04	--	--	--	STC-30 REQUIRED, REFER TO SPEC. SECTION 08-3323
A102B	CLASSROOM	3'-0"	7'-0"	C	SC	CLEAR STAIN		05	2	HM	PAINT	3
A103	HEAD HOUSE	6'-0"	7'-0"	CC	HM	PAINT	Yes	06	3	HM	PAINT	3,
A103A	HEAD HOUSE	3'-0"	7'-0"	D	SC	CLEAR STAIN		07	2	HM	PAINT	3
A104	UNISEX RESTROOM - B	3'-0"	7'-0"	B	HM	PAINT		08	1	HM	PAINT	4,5
A105	UNISEX RESTROOM - A	3'-0"	7'-0"	B	HM	PAINT		08	1	HM	PAINT	4,5
A106	MECHANICAL	6'-0"	7'-0"	DD	HM	METAL PANEL		09	4	HM	PAINT	8
A107	ELECTRICAL	3'-0"	7'-0"	D	HM	PAINT	Yes	10	2	HM	PAINT	1; ACCESS CONTROL; 45 MIN. FIRE RATED DOOR
A107A	IDF	3'-0"	7'-0"	D	HM	PAINT		11	2	HM	PAINT	2; ACCESS CONTROL; 45 MIN. FIRE RATED DOOR
B101	GREENHOUSE	6'-0"	7'-0"	EE	HM	--		12	4	HM	--	3
B101A	GREENHOUSE	6'-0"	8'-0"	--	PC	--		13	--	ALUM	--	3
D101	EQUIPMENT STORAGE	6'-0"	10'-0"	DD	MTL	PAINT		14	2	HM	PAINT	3; REFER TO LS SERIES PLANS



**1 STOREFRONT TYPES**  
1/4" = 1'-0"



**2 DOOR & FRAME TYPES**  
1/4" = 1'-0"



**GENERAL DOOR AND WINDOW NOTES**

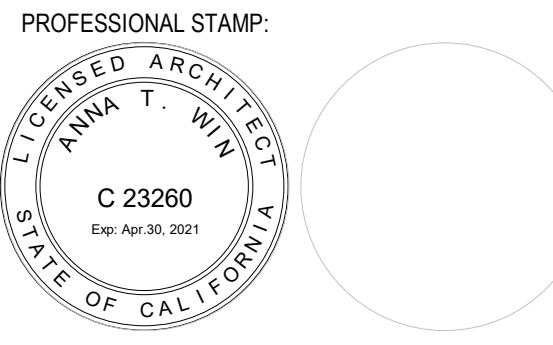
- DOOR NOTES**
- FIRE RATED DOORS SHALL BE POSITIVE LATCHING AND SELF-CLOSING OR ACTIVATED BY SMOKE DETECTOR PER CBC SECTION 7.15.
  - SEE SPECIFICATIONS SECTION 08 7100 FOR DOOR HARDWARE GROUPS.
  - EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
  - DOOR FRAMES ARE 2" NOMINAL, U.O.N.
  - FOR SIGNAGE MOUNTING HEIGHTS & LOCATIONS, SEE DETAIL 2/G007.
  - PROVIDE KNOCK-OUT FOR ACCESS CONTROL IN DOOR FRAME WHERE OCCURS.
  - THRESHOLDS AT DOORWAYS SHALL BE A MAX. 1/2" HIGH AND COMPLY WITH CB 118-302 AND 118-303.
  - GLAZING FOR WINDOWS AND STOREFRONT SYSTEMS TO BE 1" THICK ASSEMBLY; STC RATING OF 35 REQUIRED.

- REMARKS KEY**
- SAFETY SIGN "ELECTRICAL ROOM", SEE DETAIL 6/G007 SIM.
  - SAFETY SIGN "IDF ROOM", SEE DETAIL 6/G007 SIM.
  - ROOM SIGN, TYP., SEE DETAIL 6/G007.
  - TOILET ROOM SIGN, SEE DETAIL 6/G007 SIM.
  - TOILET DOOR SIGN, SEE DETAIL 3/G007.
  - TACTILE EXIT SIGN, SEE DETAIL 1/G007.
  - TACTILE EXIT ROUTE SIGN, SEE DETAIL 1/G007.
  - SAFETY SIGN "MECHANICAL ROOM", SEE DETAIL 6/G007 SIM.

- MATERIALS**
- |          |              |
|----------|--------------|
| ALUM     | ALUMINUM     |
| HM       | HOLLOW METAL |
| SC       | SOLID CORE   |
| MTL      | METAL        |
| CL       | CHAIN LINK   |
| GR. SCN. | GREEN SCREEN |

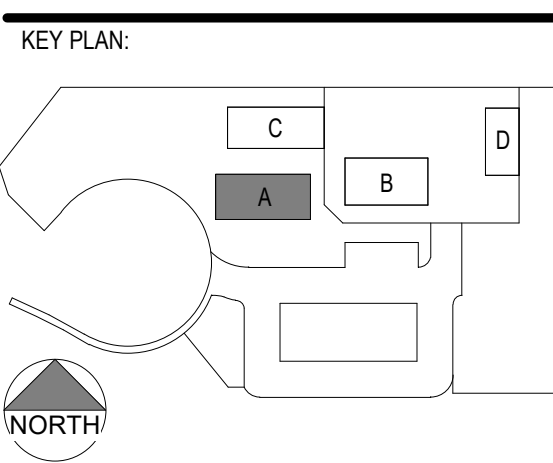


4750 Willow Road #250 Pleasanton, CA 94588 - T 925 648 8800  
3009 Douglas Blvd #290 Roseville, CA 95661 - T 916.772.1800  
444 S. Flower St #1200 Los Angeles, CA 90071 - T 714.338.1600



CONSULTANT:

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CLPCCD - LAS POSITAS COLLEGE  
**AGRICULTURE SCIENCE HORTICULTURE FACILITY**  
3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551

**DOOR & WINDOW SCHEDULES & TYPES**

DRAWN BY: EA CHECKED BY: AW  
DATE: 01/14/2021 PROJECT NO: C9508  
SHEET NO:

**A801**

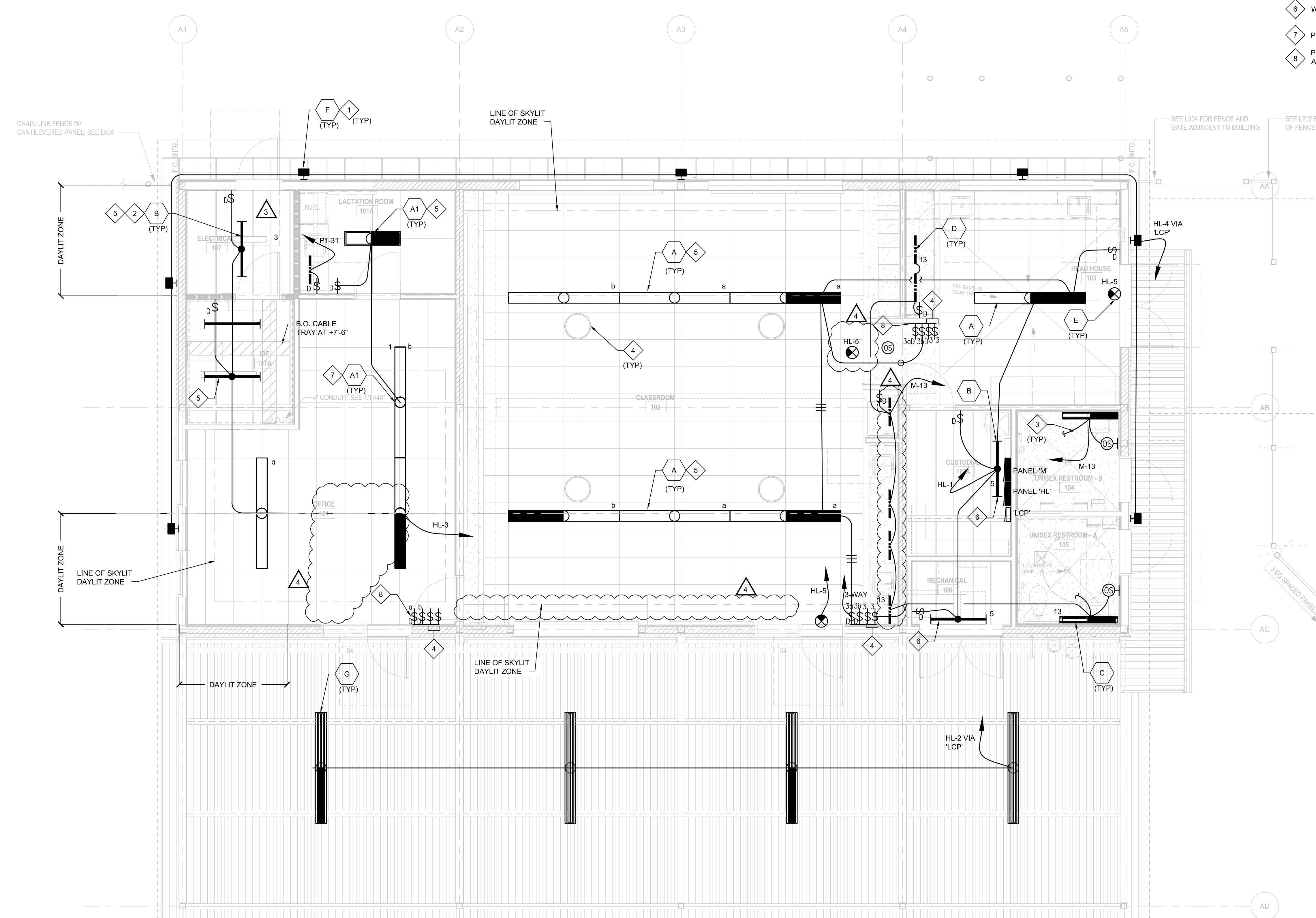
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**GENERAL NOTES:**

1. ALL LIGHTING FIXTURES ARE LED TYPE AND CONFORMING TO TITLE 24 REQUIREMENTS FOR REQUIRED AUTO SHUTOFF AND DIMMING INTEGRAL WITH THE UNIT FIXTURES. SEE FIXTURE SCHEDULE, TYP FOR LIGHTING PLANS, UON.

**KEY NOTES:**

- 1 PROVIDE DEDICATED BRANCH CIRCUIT HOMERUN TO PNL 'LP' VIA 'LCP'.
- 2 UNIT WITH INTEGRAL BATTERY PACK, BODINE 50 OR VENDOR'S EQUAL.
- 3 CONNECT TO ROOM EXH FAN, SEE MECH.
- 4 SOLAR TUBE, TYP. SEE ARCHITECTURAL DRAWINGS.
- 5 PENDANT HUNG, MOUNT AT +10'-0" A.F.F.
- 6 WALL MOUNTED, MOUNT AT +10'-3" A.F.F.
- 7 PENDANT MOUNTED, MOUNT AT +8'-5" A.F.F.
- 8 PROVIDE MULTI-GANG BOX WITH A COMMON FACEPLATE AS MANUFACTURED BY LEVITON OR APPROVED EQUAL.



1 CLASSROOM BUILDING – LIGHTING

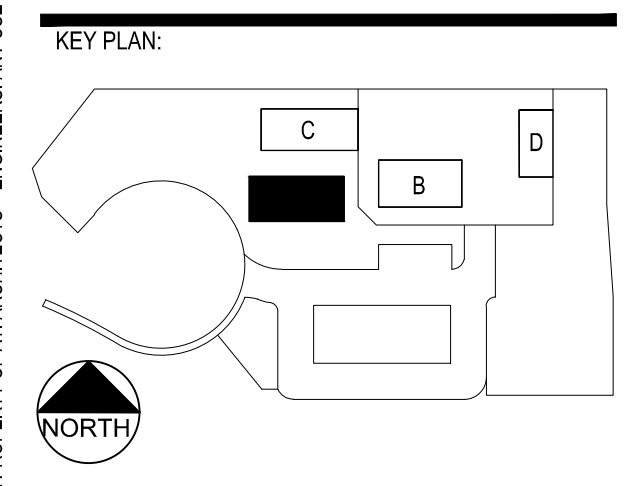
SCALE: 1/4" = 1'-0"

ATI ARCHITECTS + ENGINEERS AN AC MARTIN COMPANY  
 4750 Willow Road #250 Pleasanton, CA 94568 - T 925 648 8800  
 3009 Douglas Blvd #290 Roseville, CA 95661 - T 916 772 1800  
 444 S Flower St #1200, Los Angeles, CA 90071 - T 714 338 1600

PROFESSIONAL STAMP:

CONSULTANT:  
  
**METRO POWER ENGINEERS, INC.**  
 3150 HILLTOP MALL ROAD, SUITE 222  
 RICHMOND, CA 94806  
 TEL: 510.275.3000 FAX: 510.275.3002

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△	BID ADDENDUM 4	03/24/21



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 AGRICULTURE SCIENCE HORTICULTURE FACILITY  
 3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551

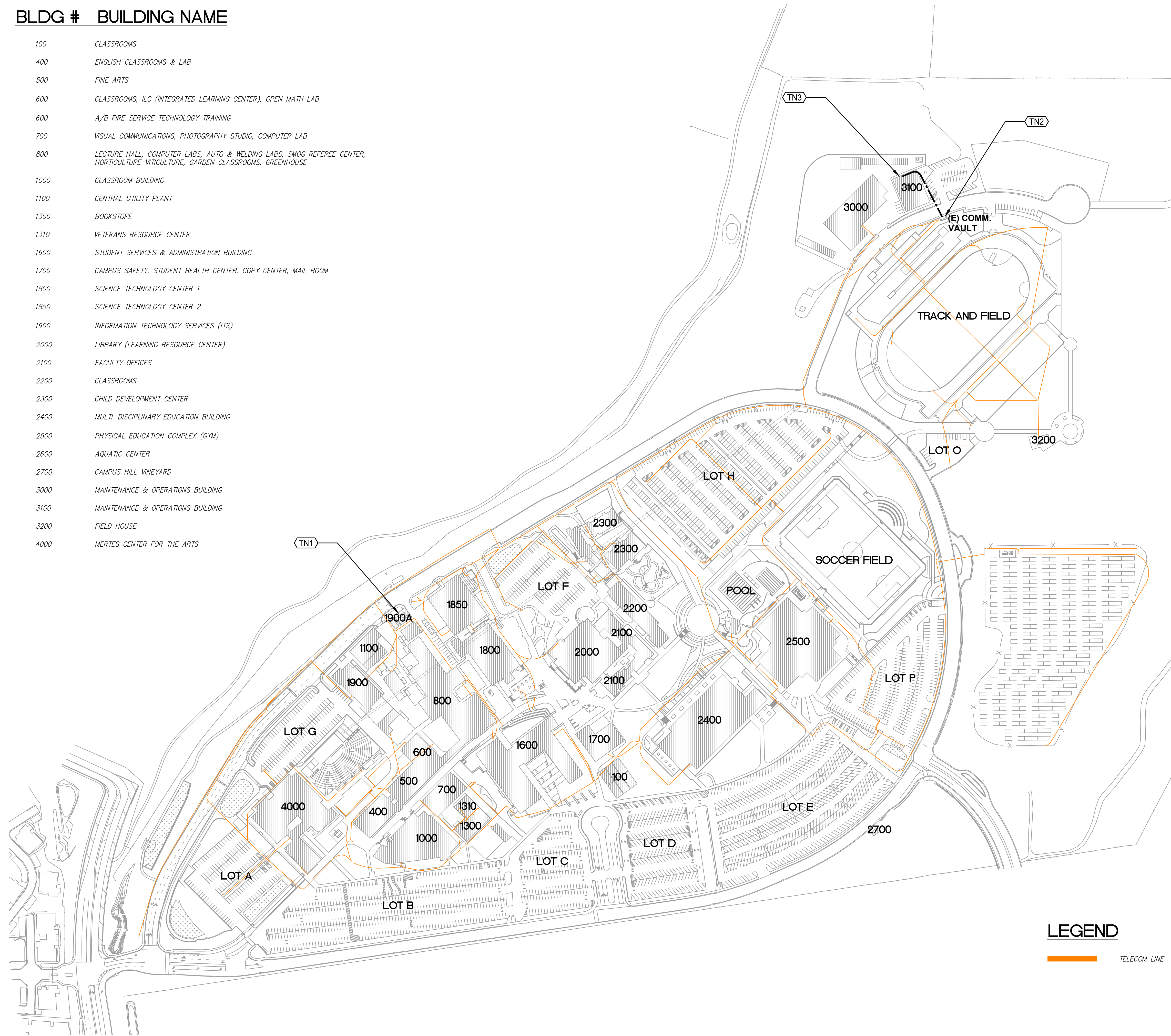
**CLASSROOM BUILDING FLOOR PLAN LIGHTING**

DRAWN BY:	CHECKED BY:
DATE: 11/09/2020	PROJECT NO: C9508
SHEET NO:	

**EA141**

**BLDG # BUILDING NAME**

100	CLASSROOMS
400	ENGLISH CLASSROOMS & LAB
500	FINE ARTS
600	CLASSROOMS, ILC (INTEGRATED LEARNING CENTER), OPEN MATH LAB
600	A/B FIRE SERVICE TECHNOLOGY TRAINING
700	VISUAL COMMUNICATIONS, PHOTOGRAPHY STUDIO, COMPUTER LAB
800	LECTURE HALL, COMPUTER LABS, AUTO & WELDING LABS, SMOG REFEREE CENTER, HORTICULTURE VITICULTURE, GARDEN CLASSROOMS, GREENHOUSE
1000	CLASSROOM BUILDING
1100	CENTRAL UTILITY PLANT
1300	BOOKSTORE
1310	VETERANS RESOURCE CENTER
1600	STUDENT SERVICES & ADMINISTRATION BUILDING
1700	CAMPUS SAFETY, STUDENT HEALTH CENTER, COPY CENTER, MAIL ROOM
1800	SCIENCE TECHNOLOGY CENTER 1
1850	SCIENCE TECHNOLOGY CENTER 2
1900	INFORMATION TECHNOLOGY SERVICES (ITS)
2000	LIBRARY (LEARNING RESOURCE CENTER)
2100	FACULTY OFFICES
2200	CLASSROOMS
2300	CHILD DEVELOPMENT CENTER
2400	MULTI-DISCIPLINARY EDUCATION BUILDING
2500	PHYSICAL EDUCATION COMPLEX (GYM)
2600	AQUATIC CENTER
2700	CAMPUS HILL VINEYARD
3000	MAINTENANCE & OPERATIONS BUILDING
3100	MAINTENANCE & OPERATIONS BUILDING
3200	FIELD HOUSE
4000	MERTES CENTER FOR THE ARTS



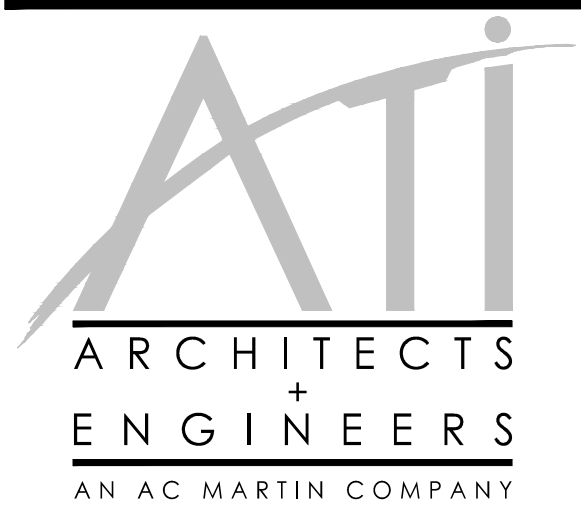
**KEYNOTES**

- TN COMMUNICATIONS SYSTEMS: WORK OF DIVISION 27.
- TN1 THE CAMPUS MDF IS IN B1900A. PROVIDE 48 STRAND SINGLE MODE TO IDF ROOM, HORTICULTURE BLDG. SEE SHEET TA101, TN801 AND TN802.
- TN2 (E) COMM VAULT TO BE USED TO CONNECT TO IDF ROOM IN HORTICULTURE BLDG. SEE E101 AND TA101 FOR CONTINUATION. REFER TO SHEET TN505 FOR OUTSIDE PLANT DETAILS.
- TN3 (E) FMO FIRE ALARM CONTROL PANEL 'FACP-FMO'. PROVIDE 12 STRAND MULTIMODE FIBER FOR FIRE ALARM USE FROM ELEC ROOM B3100 TO ELEC ROOM, HORTICULTURE BLDG. SEE SHEET E101, TA101 AND TN802.

**LEGEND**



DSA:



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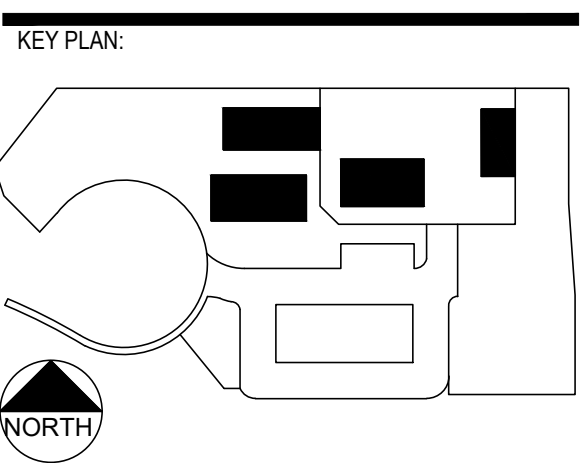


CONSULTANT:

**Smith Fausch & McDonald Inc.**  
Consulting Engineering Group  
301 8th Street  
San Francisco, California 94103  
(415) 252-9140 www.sfm.com

DATE: 11/19/2020

ITEM:	REVISION / ISSUE:	DATE:
Δ	BID ADDENDUM 4	03/24/2021



CLPCCD - LAS POSITAS COLLEGE  
AGRICULTURE SCIENCE HORTICULTURE FACILITY  
3000 CAMPUS HILL DRIVE,  
LIVERMORE, CA 94551

**TELECOM SYSTEM DIAGRAM**

DRAWN BY: IK CHECKED BY: RLE  
DATE: 11/09/2020 PROJECT NO: C9508  
SHEET NO:

**TA100**

**1 CAMPUS TELECOM SITE PLAN** 1"=150'

### KEYNOTES

- TN COMMUNICATIONS SYSTEMS: WORK OF DIVISION 27.
- TN1 PROVIDE (3) 4" C (U.G.). REFER TO E101 FOR EXACT LOCATION AND ROUTING.
- TN2 PROVIDE (2) 2" C (U.G.)
- PROVIDE 1.25" C. FOR THE SECURITY CAMERA USE. PROVIDE COMMSCOPE POWERED FIBER CABLE (4F SINGLEMODE, OUTDOOR, 12 AWG PART NUMBER PFC-S04L12) AND COMMSCOPE 2-PORT 60W POE EXTENDER (PFU-P-C-O-060-02). PROVIDE 1 OSP RATED COMMSCOPE CAT 6A PATCH CORD. LENGTH TBD IN THE FIELD. HOMERUN BACK TO IDF ROOM 109. PROVIDE COMMSCOPE 57VDC POWER SUPPLY (PFP-PX-8M FOR 8 DEVICES) AND INSTALL IN THE RACK IN THE IDF.
- TN3
- PROVIDE (1) 1.25" C (U.G) FROM PARKING PERMIT MACHINE TO IDF ROOM.
- TN4
- PROVIDE 4' X 6' PULL BOX WITH H20 TRAFFIC RATED LID.
- TN5
- PROVIDE (2) 4"C. AND (1) 2"C.
- TN6
- PROVIDE (1) 4"C. AND (1) 2"C.
- TN7

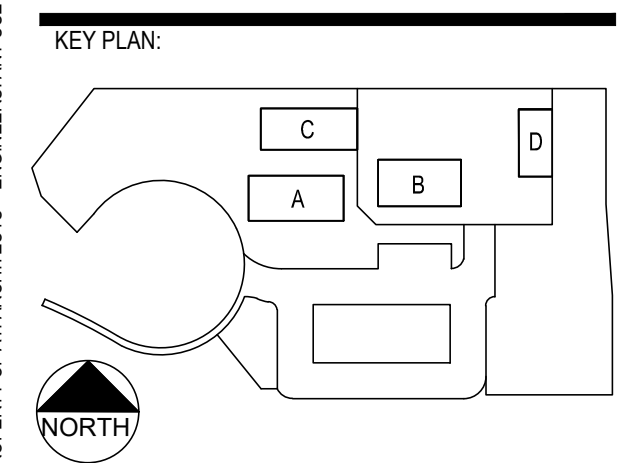


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CONSULTANT:  
**Smith & Fausch & McDonald Inc.**  
 Consulting Engineering Group  
 381 9th Street  
 San Francisco, California 94103  
 (415) 255-9140 www.sfm.com  
 DATE: 11/19/2020  
 RAY ENDOREZ  
 LICENSE NO. 18661  
 EXPIRES 12/31/2022

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Δ	BID ADDENDUM 4	03/24/2021



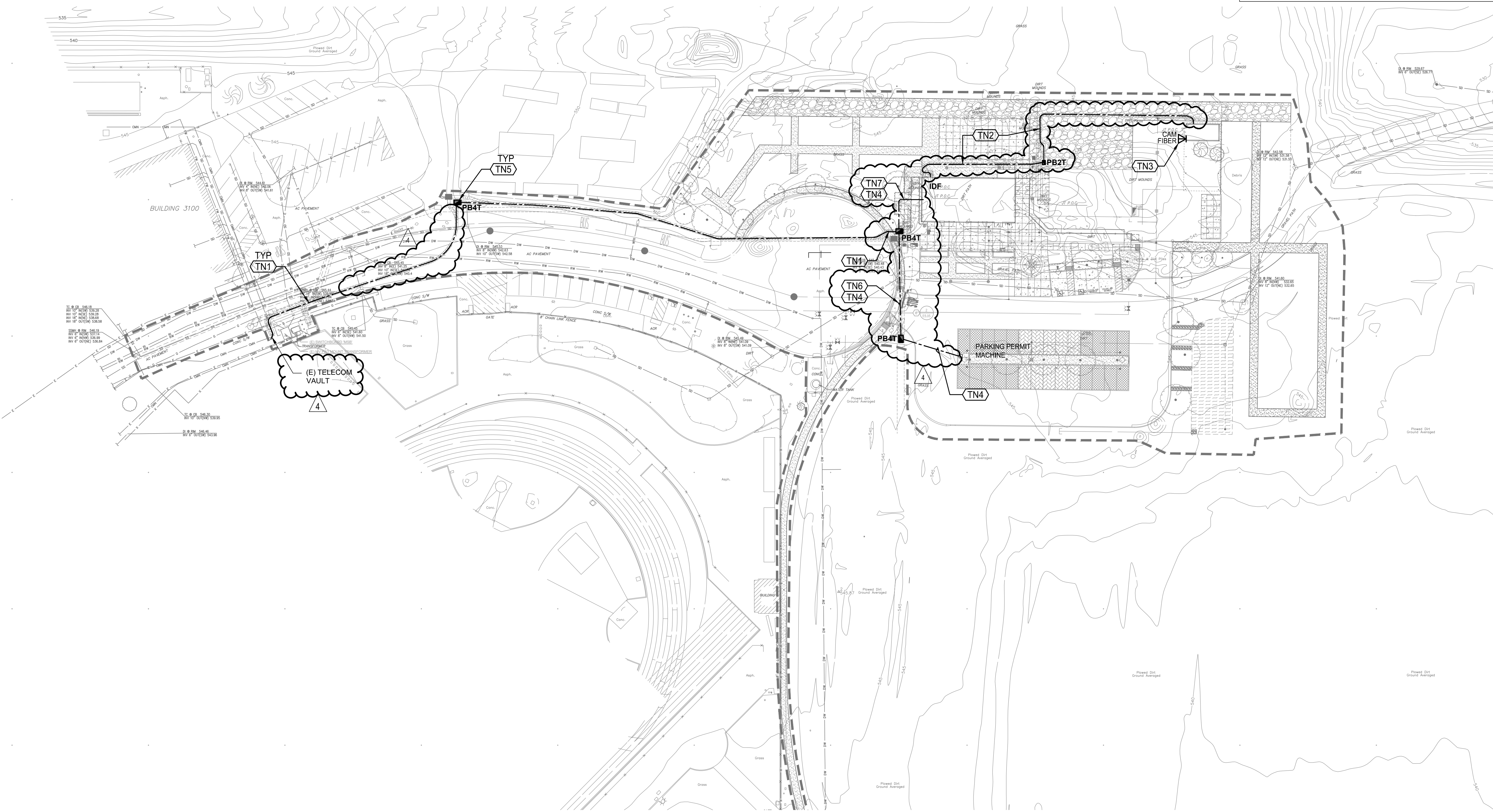
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 AGRICULTURE SCIENCE HORTICULTURE FACILITY  
 3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551

**TELECOM SITE PLAN**

DRAWN BY: IK      CHECKED BY: RLE  
 DATE: 11/09/2020      PROJECT NO: C9508  
 SHEET NO:

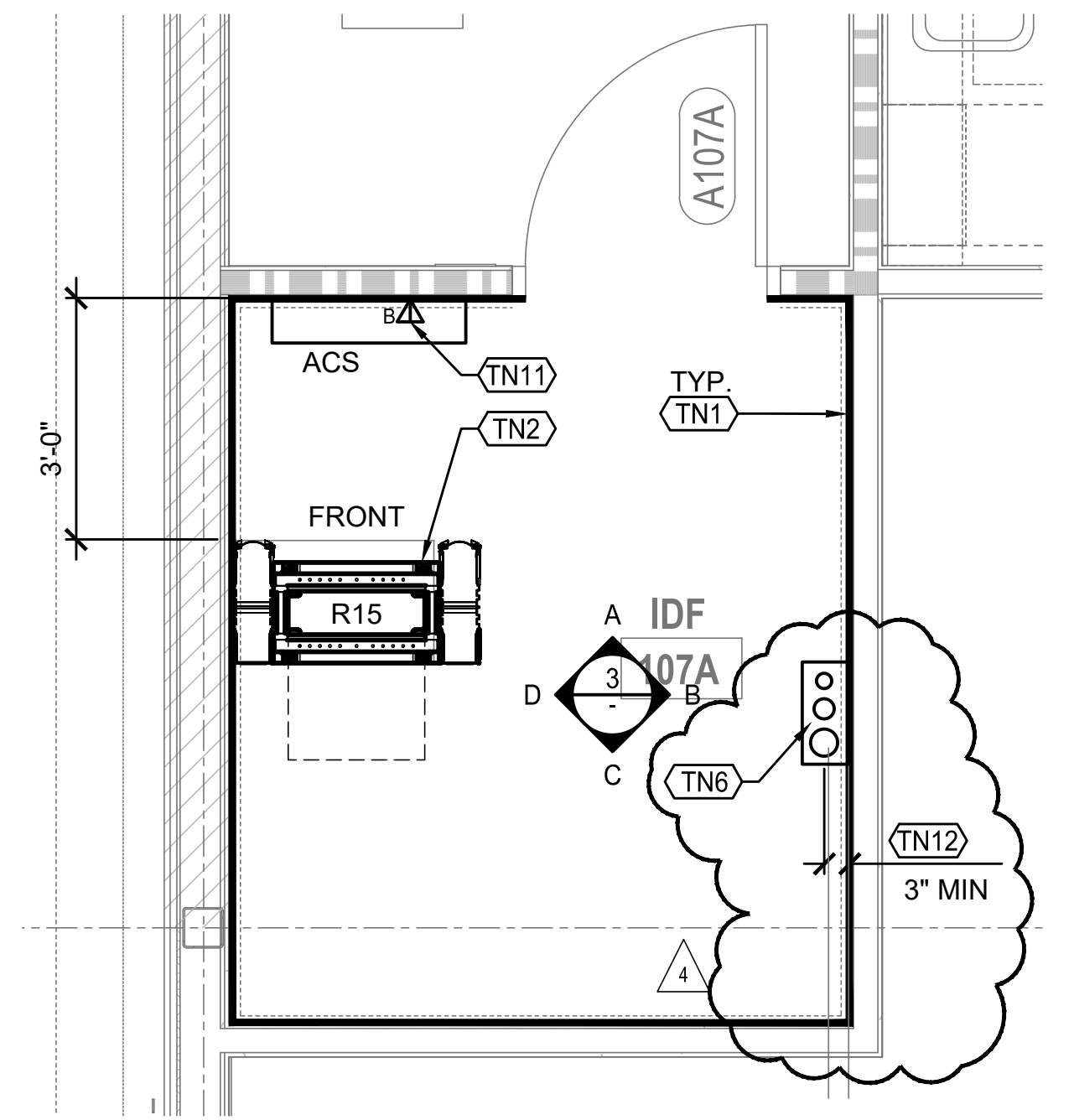
# TA101

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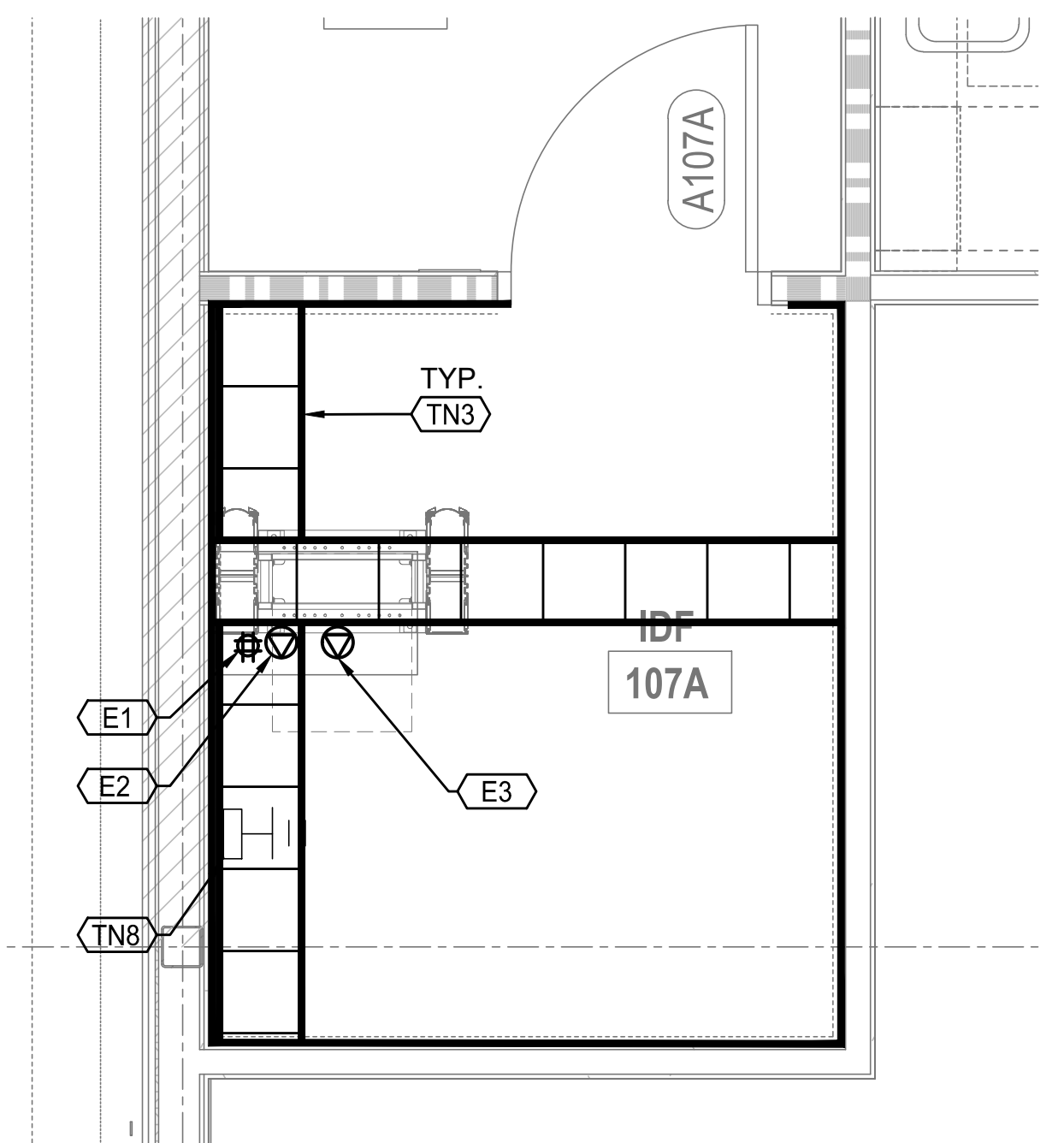


## 1 CAMPUS TELECOM SITE PLAN

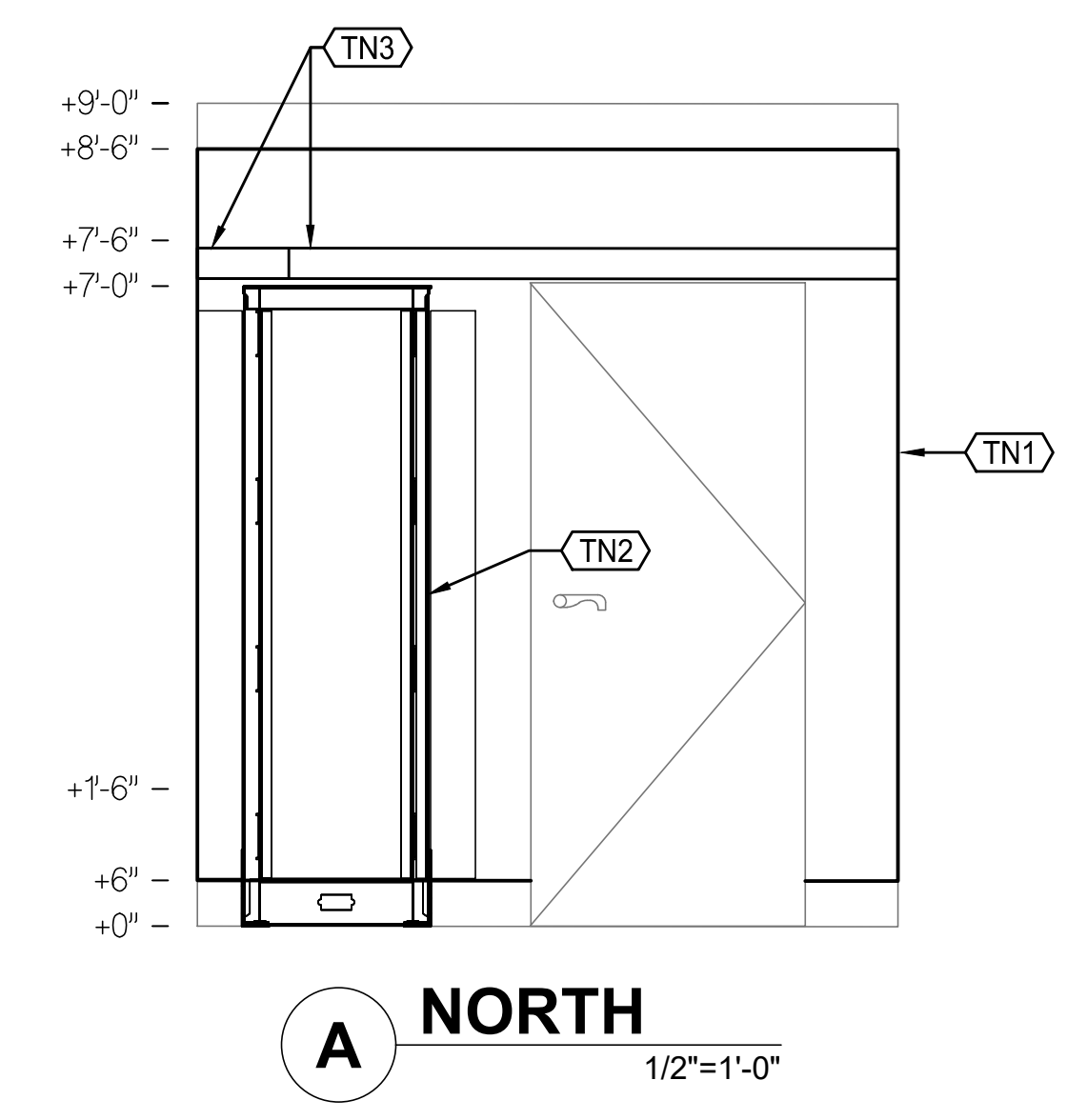
1"=40'      NORTH



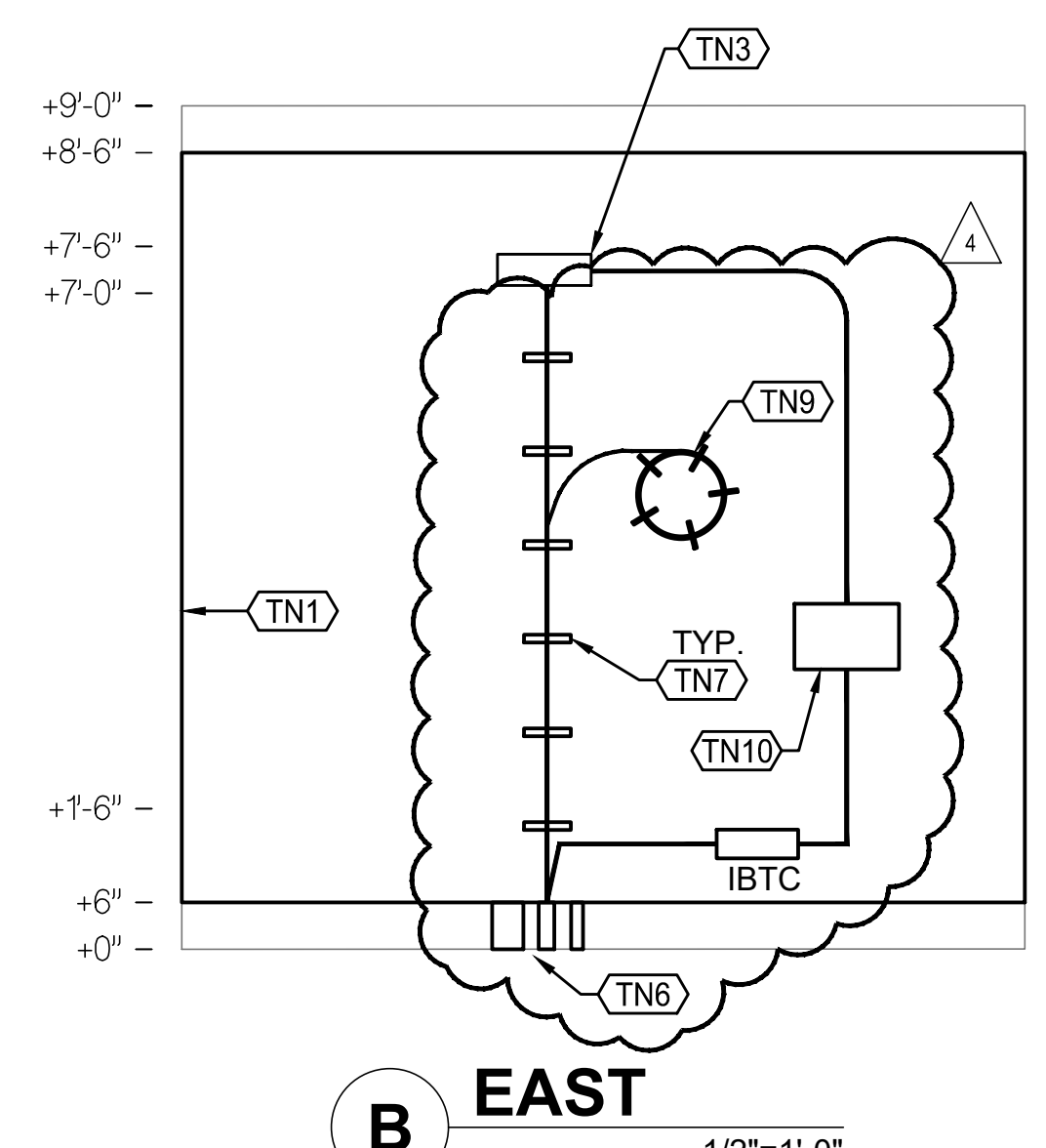
**1 IDF ROOM 107A ENLARGED PLAN**  
1/2"=1'-0"



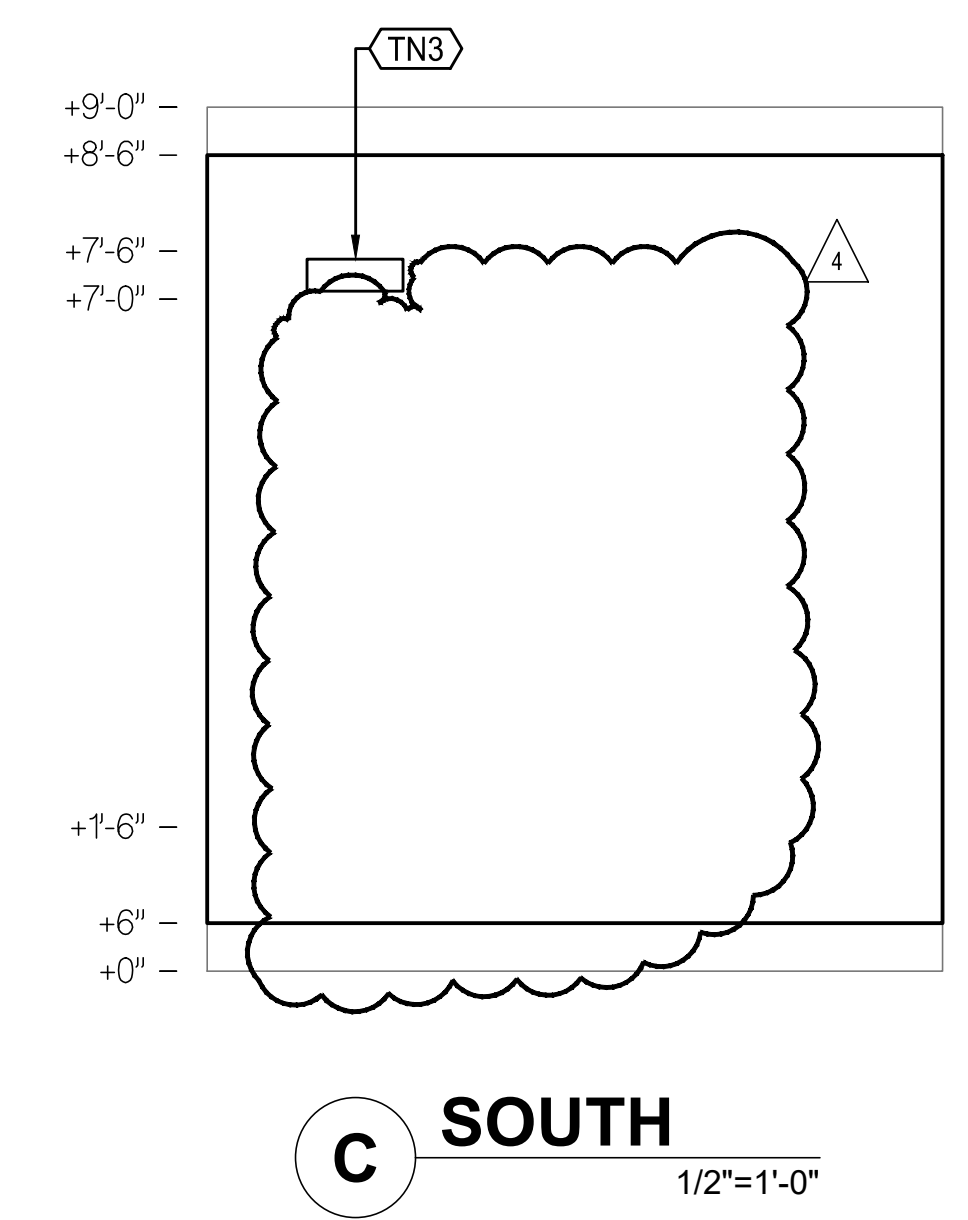
**2 IDF ROOM 107A ENLARGED RCP**  
1/2"=1'-0"



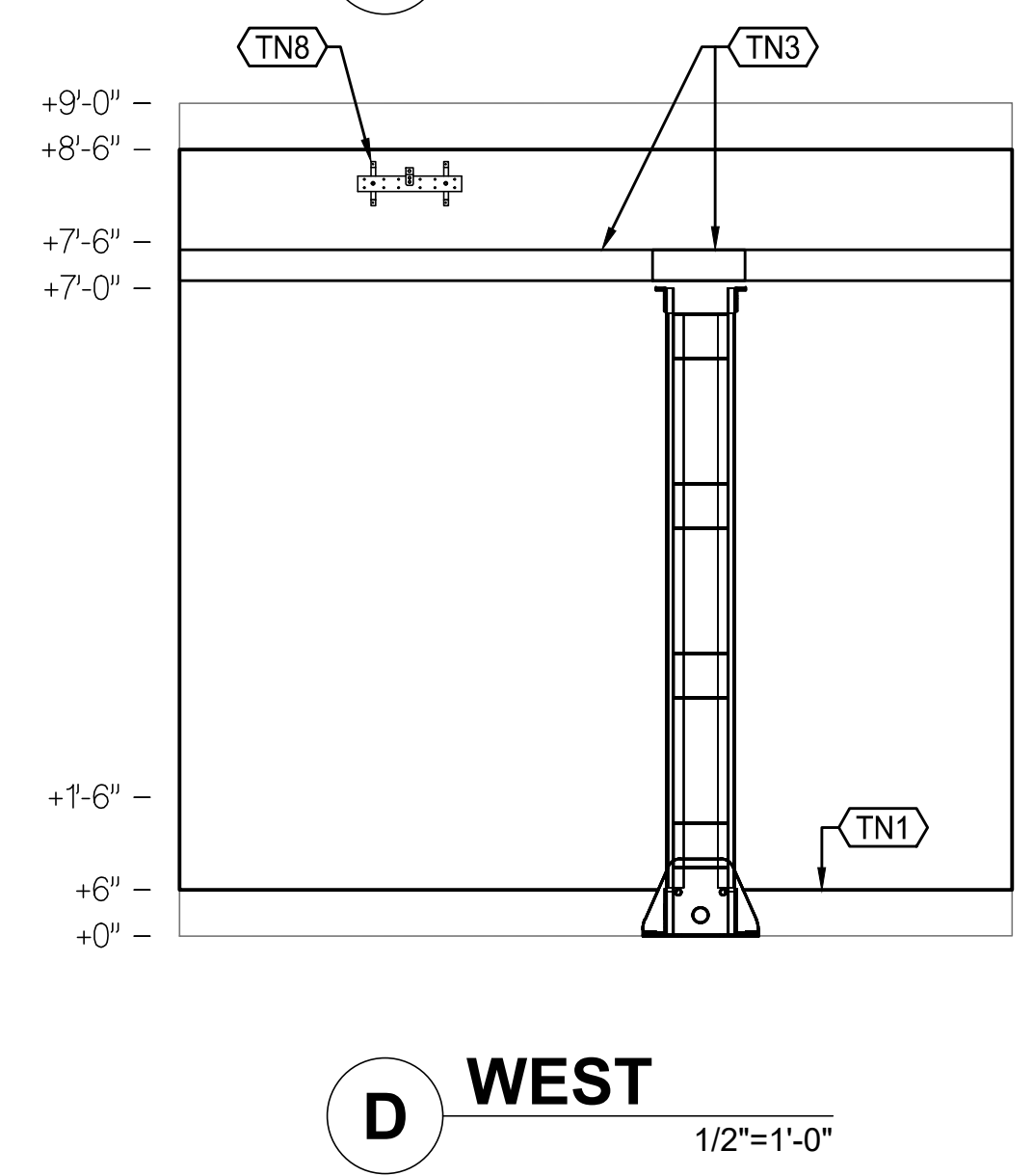
**A NORTH**  
1/2"=1'-0"



**B EAST**  
1/2"=1'-0"



**C SOUTH**  
1/2"=1'-0"



**D WEST**  
1/2"=1'-0"

**3 ELEVATIONS**  
1/2"=1'-0"

**SHEET NOTE**

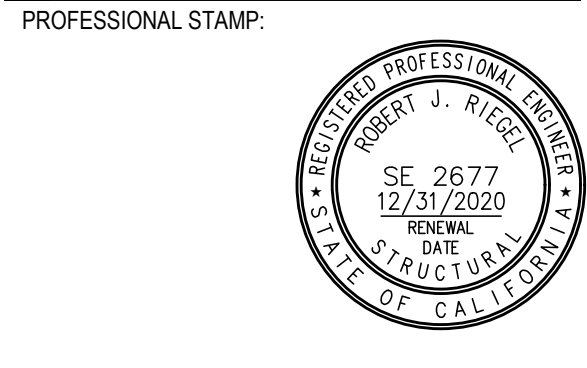
1. CLPCCD ITS WILL APPROVE PLACEMENT OF ALL IDF EQUIPMENT PRIOR TO FINAL INSTALLATION.

**KEYNOTES**

- E ELECTRICAL: WORK OF DIVISION 26
- E1 PROVIDE ONE QUAD 5-20R ON A DEDICATED CKT MOUNTED ON THE CABLE RUNWAY.
- E2 PROVIDE ONE L6-20R ON A DEDICATED CKT MOUNTED ON THE CABLE RUNWAY.
- E3 PROVIDE ONE L5-30R ON A DEDICATED CKT MOUNTED ON THE CABLE RUNWAY.
- TN COMMUNICATIONS SYSTEMS: WORK OF DIVISION 27.
- TN1 PROVIDE 3/4" THICK, 1-HR RATED FIRE-RESISTANT TREATED PLYWOOD BACKBOARD FROM 6" A.F.F. TO 8'-6" A.F.F. PROVIDE AS MANY AS SHOWN ON PLAN. PAINT, COLOR WHITE. TRIM TO FIT. COORDINATE WITH ARCH DRAWINGS.
- TN2 2 POST, ZONE 4 - STATION CABLING RACK. PROVIDE 12" WIDE CABLE MANAGER ON BOTH SIDES AS SHOWN AND AS SPECIFIED.
- TN3 PROVIDE 12"W CABLE RUNWAY, CR-12 MOUNT BOTTOM @ 7'-6" A.F.F.
- TN4 PROVIDE 4" CONDUIT SPILLWAY AT THE END OF EACH SLEEVE EQUAL TO BEJED BJ-2049B.
- TN5 PROVIDE (2) 4"C SLEEVES.
- TN6 PROVIDE (1) 4"C., (1) 2" C. AND (1) 1.25" C. (U.G.) SEE SHEET TA101.
- TN7 PROVIDE 4" D-RINGS AT 2' O.C.
- TN8 PROVIDE GROUNDING BUS BAR EQUIVALENT TO B-LINE SB-477-K. MOUNT ON TOP OF THE BACKBOARD AT APPROX +96" A.F.F.
- TN9 PROVIDE 30' OF SLACK FIBER AND COIL IN A FIBER MANAGEMENT RING (FMR) EQUAL TO LEVITON 48900-OFR.
- TN10 LP-110TB100.
- TN11 DATA FOR SECURITY ACCESS CONTROL PANEL. PROVIDE A 2-PORT MSB MOUNTED ON THE WALL, OUTSIDE THE PANEL. COORDINATE LOCATION WITH DIV 28 CONTRACTOR.
- TN12 COORDINATE WITH STRUCTURAL DRAWINGS REGARDING REBAR SPACING REQUIREMENTS. INSTALL CONDUITS TO MISS REBARS.

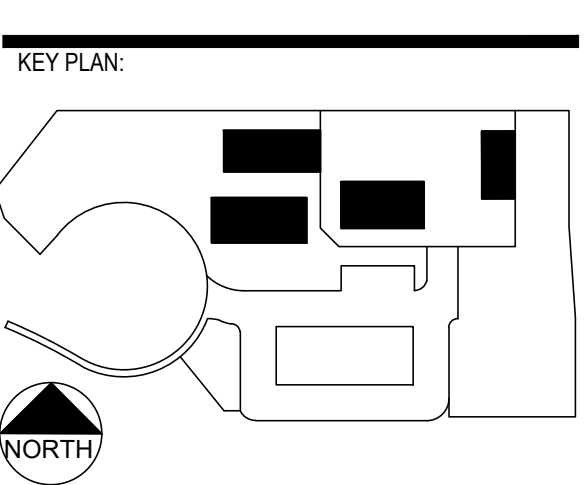


4750 Willow Road #250 Pleasanton, CA 94588 - T 925.648.8800  
3009 Douglas Blvd #280 Roseville, CA 95661 - T 916.772.1800  
444 S Flower St #1200, Los Angeles, CA 90071 - T 714.338.1800



CONSULTANT:  
**Smith, Fausch & McDonald Inc.**  
Construction Engineering Group  
331 8th Street  
San Francisco, California 94103  
(415) 252-9140 www.sfm.com

ITEM	REVISION / ISSUE	DATE
Δ	BID ADDENDUM 4	03/24/2021



CLPCCD - LAS POSITAS COLLEGE  
AGRICULTURE SCIENCE HORTICULTURE FACILITY  
3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551

**IDF ROOM 107A ENLARGED PLANS AND ELEVATIONS**

DRAWN BY: IK      CHECKED BY: RLE  
DATE: 11/09/2020      PROJECT NO: C9508  
SHEET NO:

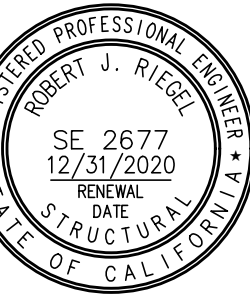


**KEYNOTES**

- TN TELECOMMUNICATIONS SYSTEMS: WORK OF DIVISION 27.
- TN1 PROVIDE 30' MIN. SLACK CABLE COILED IN AN FIBER MANAGEMENT RING (FMR) MOUNTED ON THE BACKBOARD.
- TN2 PROVIDE SIX (6) 10' SC-LC YELLOW TERASPEED PATCH CORDS.
- TN3 NOT USED.
- TN4 FIRE ALARM. VERIFY PATHWAYS AND LOCATION IN THE FIELD WITH DISTRICT'S REPRESENTATIVE
- TN5 PROVIDE SYSTMIX SME-4-G2 WITH 12 LC CONNECTORS.
- TN6 FOR FIRE ALARM USE.
- TN7 PROVIDE TEN (10) 1M LC-LC AND EIGHT (8) 3M LC-LC RED TERASPEED PATCH CORDS.
- TN8 PROVIDE COMMSCOPE LAZRSPEED 700012354 OM3 MULTIMODE FIBER.**

4750 Willow Road #250 Pleasanton, CA 94588 - T 925.648.8800  
 3009 Douglas Blvd #200 Roseville, CA 95661 - T 916.772.1800  
 444 S Flower St #1200, Los Angeles, CA 90011 - T 714.338.1600

PROFESSIONAL STAMP:



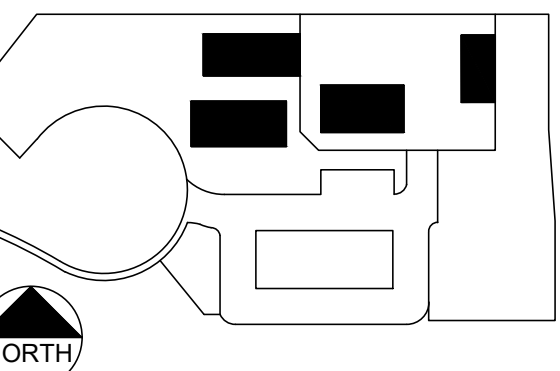
CONSULTANT:

301 8th Street  
 San Francisco, California 94103  
 (415) 255-9140 www.sfm.com

DATE: 11/19/2020

ITEM:	REVISION / ISSUE:	DATE:
△	BID ADDENDUM 4	03/24/2021

KEY PLAN:

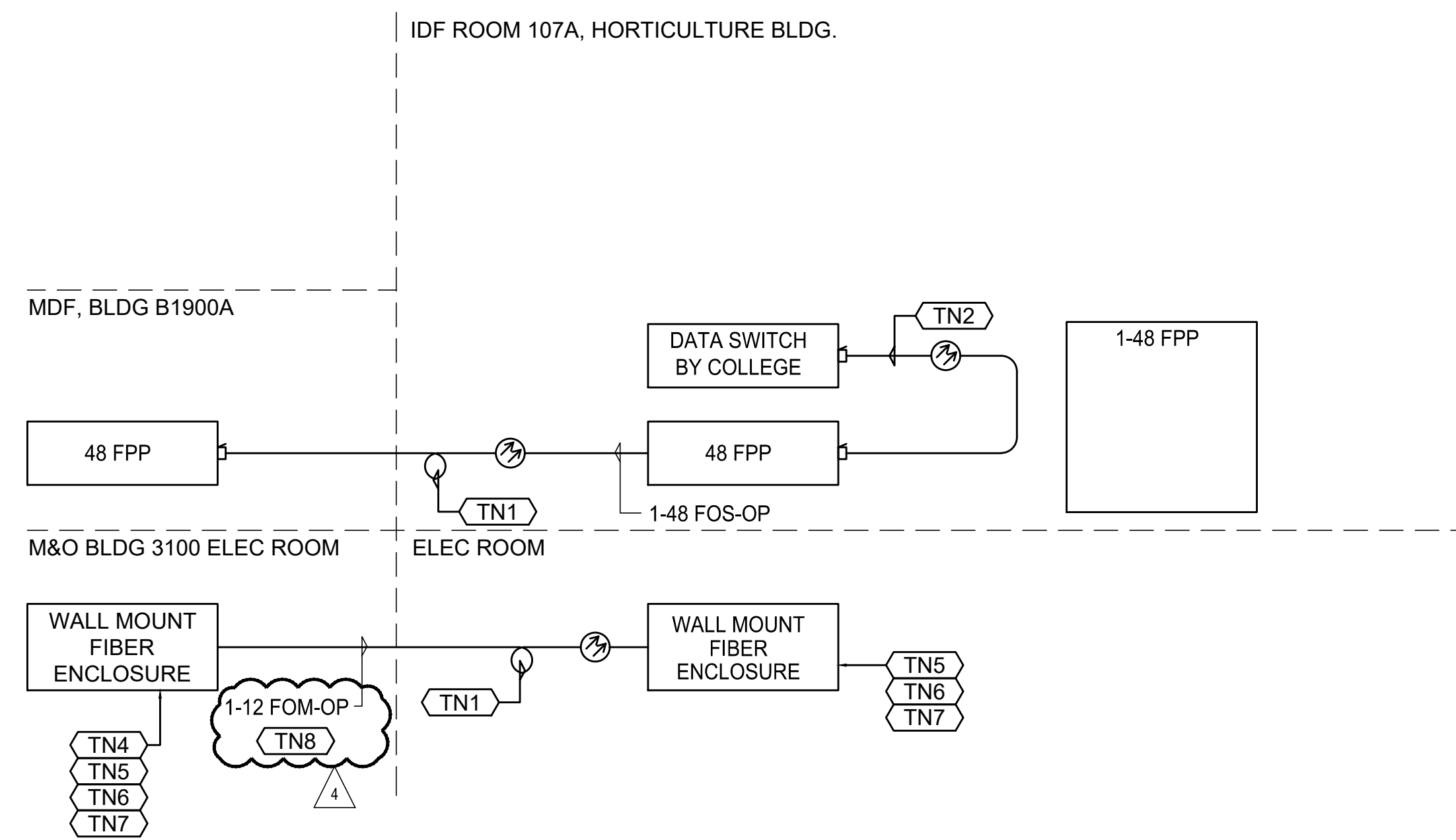


**CLPCCD - LAS POSITAS COLLEGE**  
 AGRICULTURE SCIENCE HORTICULTURE FACILITY  
 3000 CAMPUS HILL DRIVE, LIVERMORE, CA 94551

**FIBER CABLING SINGLE LINE DIAGRAM**

DRAWN BY: IK      CHECKED BY: RLE  
 DATE: 11/09/2020      PROJECT NO: C9508  
 SHEET NO:

**TN802**



**1 FIBER CABLING SINGLE LINE DIAGRAM** NTS

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NOT USED 3/10/2021

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 33 4727 Bioretention

**Appendices**

Appendix 1      02/01/2021      DSA 103-19: Listing of Structural Tests & Special Inspections

END OF SECTION

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## SECTION 08 7100

## DOOR HARDWARE

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions of Division 1 Specification Sections, apply to this Section.

## 1.2 SUMMARY

- A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.
- B. This Section includes the following, but is not necessarily limited to:
  - 1. Door Hardware, including electric hardware.
  - 2. Storefront and Entrance door hardware.
  - 3. Gate Hardware.
  - 4. Digital keypad access control devices.
  - 5. Hold-open closers with smoke detectors.
  - 6. Wall or floor-mounted electromagnetic hold-open devices.
  - 7. Power supplies for electric hardware.
  - 8. Low-energy door operators plus sensors and actuators.
  - 9. Thresholds, gasketing and weather-stripping.
  - 10. Door silencers or mutes.
- C. Related Sections: The following sections are noted as containing requirements that relate to this Section, but may not be limited to this listing.
  - 1. Division 8: Section - Steel Doors and Frames.
  - 2. Division 8: Section - Wood Doors.
  - 3. Division 8: Section - Aluminum Storefront
  - 4. Division 28: Section - Fire/Life-Safety Systems & Security Access Systems.

## 1.3 REFERENCES (USE DATE OF STANDARD IN EFFECT AS OF BID DATE.)

- A. 2019 California Building Code, CCR, Title 24.
- B. BHMA – Builders' Hardware Manufacturers Association
- C. CCR – California Code of Regulations, Title 24, Part 2, California State Accessibility Standards.
- D. DHI – Door and Hardware Institute
- E. NFPA - National Fire Protection Association.
  - 1. NFPA 80 - Fire Doors and Other Opening Protectives
  - 2. NFPA 105 - Smoke and Draft Control Door Assemblies



- F. UL - Underwriters Laboratories.
  - 1. UL 10C - Fire Tests of Door Assemblies
  - 2. UL 305 - Panic Hardware
- G. WHI - Warnock Hersey Incorporated
- H. SDI - Steel Door Institute

1.4 SUBMITTALS & SUBSTITUTIONS

- A. General: Submit in accordance with Conditions of the Contract and Division 1 Specification sections.
- B. Submit product data (catalog cuts) including manufacturers' technical product information for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
- C. Submit six (6) copies of schedule organized vertically into "Hardware Sets" with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:
  - 1. Include a Cover Sheet with;
    - a. Job Name, location, telephone number.
    - b. Architects name, location and telephone number.
    - c. Contractors name, location, telephone number and job number.
    - d. Suppliers name, location, telephone number and job number.
    - e. Hardware consultant's name, location and telephone number.
  - 2. Job Index information included;
    - a. Numerical door number index including; door number, hardware heading number and page number.
    - b. Complete keying information (referred to DHI hand-book "Keying Systems and Nomenclature"). Provision should be made in the schedule to provide keying information when available; if it is not available at the time the preliminary schedule is submitted.
    - c. Manufacturers' names and abbreviations for all materials.
    - d. Explanation of abbreviations, symbols, and codes used in the schedule.
    - e. Mounting locations for hardware.
    - f. Clarification statements or questions.
    - g. Catalog cuts and manufacturer's technical data and instructions.
  - 3. Vertical schedule format sample:

Heading Number 1 (Hardware group or set number – HW -1)					
			(a) 1 Single Door #1 - Exterior from Corridor 101	(b) 90°	(c) RH
			(d) 3' 0"x7' 0" x 1-3/4" x (e) 20 Minute (f) WD x HM		
(g) 1	(h)	(i) ea	(j) Hinges - (k) 5BB1HW 4.5 x 4.5 NRP (l) ½ TMS	(m) 626	(n) IVE
2	6AA	1 ea	Lockset - ND50PD x RHO x RH x 10-025 x JTMS	626	SCH

(a) - Single or pair with opening number and location. (b) - Degree of opening (c) - Hand of door(s) (d) - Door and frame dimensions and door thickness. (e) - Label requirements if any. (f) - Door by frame material. (g) - (Optional) Hardware item line #. (h) - Keyset Symbol. (i) - Quantity. (j) - Product description. (k) - Product Number. (l) - Fastenings and other pertinent information. (m) - Hardware finish codes per ANSI A156.18. (n) - Manufacture abbreviation.

- D. Make substitution requests in accordance with Division 1. Substitution requests must be made prior to bid date. Include product data and indicate benefit to the project. Furnish samples of any proposed substitution.
- E. Wiring Diagrams: Provide product data and wiring and riser diagrams for all electrical products listed in the Hardware Schedule portion of this section.
- F. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.
- G. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- H. Furnish as-built/as-installed schedule with close-out documents, including keying schedule and transcript, wiring/riser diagrams, manufacturers' installation and adjustment and maintenance information.
- I. Fire Door Assembly Testing: Submit a written record of each fire door assembly to the Owner to be made available to the Authority Having Jurisdiction (AHJ) for future building inspections.
- J. LEED Certification Points: Submit information and certifications necessary to achieve maximum points for LEED certification; coordinate and cooperate with Owner and Architect in providing information necessary for required LEED rating.

#### 1.5 QUALITY ASSURANCE

- A. Obtain each type of hardware (latch and lock sets, hinges, closers, exit devices, etc.) from a single manufacturer.
- B. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this project and that employs an experienced architectural hardware consultant (AHC) who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.
  - 1. Responsible for detailing, scheduling and ordering of finish hardware.
  - 2. Meet with Owner to finalize keying requirements and to obtain final instructions in writing.
  - 3. Stock parts for products supplied and are capable of repairing and replacing hardware items found defective within warranty periods.
- C. Hardware Installer: Company specializing in the installation of commercial door hardware with five years documented experience.

- D. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and tested by UL or Warnock Hersey for given type/size opening and degree of label. Provide proper latching hardware, door closers, approved-bearing hinges and seals whether listed in the Hardware Schedule or not.
  - 1. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL labels indicating "Fire Door to be Equipped with Fire Exit Hardware") provide UL label on exit devices indicating "Fire Exit Hardware".
- E. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.
- F. Product packaging to be labelled in compliance with CA Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Coordinate delivery of packaged hardware items to the appropriate locations (shop or field) for installation.
- B. Hardware items shall be individually packaged in manufacturers' original containers, complete with proper fasteners. Clearly mark packages on outside to indicate contents and locations in hardware schedule and in work.
- C. Provide locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, etc.
- D. Contractor to inventory door hardware jointly with representatives of hardware supplier and hardware installer until each all are satisfied that count is correct.

#### 1.7 WARRANTY

- A. Provide warranties of respective manufacturers' regular terms of sale from day of final acceptance as follows:
  - 1. Locksets: "L" Series (3) years – "ND" Ten (10) years.
  - 2. Electronic: One (1) year.
  - 3. Closers: Thirty (30) years –1260 twenty (20) years –Concealed High Security fifteen (15) years --except electronic closers shall be two (2) years.
  - 4. Exit devices: Three (3) years.
  - 5. All other hardware: Two (2) years.

#### 1.8 MAINTENANCE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

#### 1.9 PRE-INSTALLATION CONFERENCE

- A. Convene a pre-installation conference at least one week prior to beginning work of this section.

- B. Attendance: Architect, Construction Manager, Contractor, Security Contractor, Hardware Supplier, Installer, Key Owner Personnel, and Project Inspector.
- C. Agenda: Review hardware schedule, products, installation procedures and coordination required with related work. Review Owner’s keying standards.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

<u>Item</u>	<u>Manufacturer</u>	<u>Acceptable Substitutes</u>
Hinges	Ives	District Standard
Locks, Latches & Cylinders	Schlage	District Standard
Exit Devices	Von Duprin	District Standard
Closers	LCN	District Standard
Push, Pulls & Protection Plates	Ives	Trimco, BBW, DCI
Flush Bolts	Ives	Trimco, BBW, DCI
Dust Proof Strikes	Ives	Trimco, BBW, DCI
Coordinators	Ives	Trimco, BBW, DCI
Stops	Ives	Trimco, BBW, DCI
Overhead Stops	Glynn-Johnson	Or Approved Equal
Thresholds	Zero	Pemko, National Guard
Seals & Bottoms	Zero	Pemko, National Guard

2.2 MATERIALS

- A. Hinges: Exterior out-swinging door butts shall be non-ferrous material and shall have stainless steel hinge pins. All doors to have non-rising pins.
  - 1. Hinges shall be sized in accordance with the following:
    - a. Height:
      - 1) Doors up to 42" wide: 4-1/2" inches.
      - 2) Doors 43" to 48" wide: 5 inches.
    - b. Width: Sufficient to clear frame and trim when door swings 180 degrees.
    - c. Number of Hinges: Furnish 3 hinges per leaf to 7'-5" in height. Add one for each additional 2 feet in height.
  - 2. Furnish non-removable pins (NRP) at all exterior out-swing doors and interior key lock doors with reverse bevels.

- B. Floor Closers: Shall be equipped with compression springs, cam and roller operating mechanism and a one piece spindle-cam for maximum operating performance and longevity.
- C. Pivots: High strength forgings and castings with precision bearings for smooth operation. Positive locking vertical adjustment mechanism to allow installer to precisely position the door and balance the load.
- D. Continuous Hinges: As manufactured by Ives, an Allegion Company. UL rated as required.
- E. Heavy Duty Cylindrical Locks and Latches: Schlage "ND" Series as scheduled with "Rhodes" design, fastened with through-bolts and threaded chassis hubs.
  - 1. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
    - a. Abusive Locked Lever Torque Test – minimum 3,100 inch-pounds without gaining access
    - b. Offset lever pull – minimum 1,600 foot pounds without gaining access
    - c. Vertical lever impact – minimum 100 impacts without gaining access
  - 2. Cycle life - tested to minimum 16 million cycles per ANSI/BHMA A156.2 Cycle Test with no visible lever sag or use of performance aids such as set screws or spacers
  - 3. UL 10C for 4'-0" x 10'-0" 3-hour fire door.
  - 4. Cylinders: Refer to "KEYING" article, herein.
  - 5. Provide solid steel anti-rotation through bolts and posts to control excessive rotation of lever.
  - 6. Provide lockset that allows lock function to be changed to over twenty other common functions by swapping easily accessible parts.
  - 7. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2 inch latch throw capable of UL listing of 3 hours on a 4' x 10' opening. Provide proper latch throw for UL listing at pairs.
  - 8. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
  - 9. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
  - 10. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
  - 11. Provide wired electrified options as scheduled in the hardware sets.
    - a. 12 through 24 volt DC operating capability, auto-detecting
    - b. Selectable EL (fail safe)/EU (fail secure) operating mode via switch on chassis
    - c. 0.230A (230mA) maximum current draw
    - d. 0.010A (10mA) holding current
    - e. Modular / "plug in" request to exit switch
  - 12. Lever Trim: Solid cast levers without plastic inserts, and wrought roses on both sides.
- F. Schlage "L" Series as scheduled with "06" Style Lever and "A" Style Rose.
  - 1. Locksets to comply with ANSI A156.13, Series 1000, Operational Grade 1 and Security Grade 1 with all standard trims. Locksets shall also comply with UL10C Positive Pressure requirements
  - 2. Lock case shall be manufactured with heavy 12 gauge steel with fully wrapped design. Lock cases with exposed edges are not acceptable. Lock case shall be multi-functional allowing transformation to a different function without opening lock case.
  - 3. Latchbolt shall have 3/4" throw and be non-handed, field reversible without opening the lock case. Solid latchbolts and / or plastic anti-friction devices are not acceptable.
  - 4. The deadbolt, when used, shall be 1" throw stainless steel with a 3/4" internal engagement when fully extended.

5. All trim shall be through-bolted with the spring cages supporting the trim attached to the lock cases to prevent torqueing.
  6. Levers to have independent rotation in both directions. Exterior lever assembly to be one-piece design attached by threaded bushing. Interior lever assembly shall be attached by screwless shank
  7. Thru-bolt lever assemblies through the door for positive interlock. Locks using a through the door spindle for attachment are not acceptable. Spindles shall be independent, designed to "break-away" at a maximum of 75psi torque.
  8. Hand of lock chassis to be changeable by simply moving one screw from one side to the case to the other and pulling and reversing the latchbolt.
  9. Cylinders to be secured by a cast stainless steel, dual retainer. Locks utilizing screws and / or stamped retainers are not acceptable.
- G. Deadlocks: Rotating cylinder trim rings of attack-resistant design. Mounting plates and actuator shields of plated cold-rolled steel. Mounting screws of ¼" diameter steel and protected by drill-resistant ball bearings. Steel alloy deadbolt with hardened steel roller. Strike alloy deadbolt with reinforcer and two 3" long screws. ANSI A156.5, 2001 Grade 1 certified.
- H. Exit devices: Von Duprin as scheduled.
1. Provide certificate by independent testing laboratory that device has completed over 1,000,000 cycles and can still meet ANSI/BHMA A156.3 - 2001 standards.
  2. All internal parts shall be of cold-rolled steel with zinc dichromate coating.
  3. Mechanism case shall have an average thickness of .140".
  4. Compression spring engineering.
  5. Non-handed basic device design with center case interchangeable with all functions.
  6. All devices shall have quiet return fluid dampeners.
  7. All latchbolts shall be deadlocking with ¾" throw and have a self-lubricating coating to reduce friction and wear.
  8. Device shall bear UL label for fire and or panic as may be required.
  9. All surface strikes shall be roller type and utilize a plate underneath to prevent movement.
  10. Lever Trim: "Breakaway" design, forged brass or bronze escutcheon with a minimum of .130" thickness, match lockset lever design.
  11. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key.
  12. Furnish glass bead kits for vision lites where required.
  13. All Exit Devices to be sex-bolted to the doors.
  14. Panic Hardware shall comply with CBC Section 11B.404.2.7 and shall be mounted between 34" and 44" above the finished floor surface.
    - a. Provide exit devices UL certified to meet maximum 5 pound requirements according to the California Building Code section 11B-309.4, and UL listed for Panic Exterior Fire Exit Hardware.
  15. Hardware (including panic hardware) shall not be provided with "Night Latch" (NL) function for any accessible doors or gates unless the following conditions are met per DSA Interpretation 10-08 DSA/AC (External), revised 4/28/09). Such conditions must be clearly demonstrated and indicated in the specification:
    - a. Such hardware has a 'dogging' feature.
    - b. It is dogged during the time the facility is open.
    - c. Such 'dogging' operation is performed only by employees as their job function (non-public use).
- I. Closers: LCN as scheduled. Place closers inside building, stairs, room, etc.
1. Door closer cylinders shall be of high strength cast iron construction with double heat treated pinion shaft to provide low wear operating capabilities of internal parts throughout

- the life of the installation. All door closers shall be tested to ANSI/BHMA A156.4 test requirements by a BHMA certified testing laboratory. A written certification showing successful completion of a minimum of 10,000,000 cycles must be provided.
2. All door closers shall be fully hydraulic and have full rack and pinion action with a shaft diameter of a minimum of 11/16 inch and piston diameter of 1 inch to ensure longevity and durability under all closer applications.
  3. All parallel arm closers shall incorporate one piece solid forged steel arms with bronze bushings. 1-9/16" steel stud shoulder bolts, shall be incorporated in regular arms, hold-open arms, arms with hold open and stop built in. All other closers to have forged steel main arms for strength, durability, and aesthetics for versatility of trim accommodation, high strength and long life.
  4. All parallel arm closers so detailed shall provide advanced backcheck for doors subject to severe abuse or extreme wind conditions. This advanced backcheck shall be located to begin cushioning the opening swing of the door at approximately 45 degrees. The intensity of the backcheck shall be fully adjustable by tamper resistant non-critical screw valve.
  5. Closers shall be installed to permit doors to swing 180 degrees.
  6. All closers shall utilize a stable fluid withstanding temperature range of 120 degrees F. to -30 degrees F. without requiring seasonal adjustment of closer speed to properly close the door.
  7. Provide the manufactures drop plates, brackets and spacers as required at narrow head rails and special frame conditions. NO wood plates or spacers will be allowed.
  8. Maximum effort to operate closers shall not exceed 5 lbs., such pull or push effort being applied at right angles to hinged doors. Compensating devices or automatic door operators may be utilized to meet the above standards. When fire doors are required, the maximum effort to operate the closer may be increased but shall not exceed 15 lbs. when specifically approved by fire marshal. All closers shall be adjusted to operate with the minimum amount of opening force and still close and latch the door. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position. Per 11B-404.2.8.1, door shall take at least 5 seconds to move from an open position of 90 degrees to a position of 12 degrees from the latch jamb.
- J. Flush Bolts & Dust Proof Strikes: Automatic Flush Bolts shall be of the low operating force design. Utilize the top bolt only model for interior doors where applicable and as permitted by testing procedures.
1. Manual flush bolts only permitted on storage or mechanical openings as scheduled.
  2. Provide dust proof strikes at openings using bottom bolts.
- K. Door Stops:
1. Unless otherwise noted in Hardware Sets, provide floor type with appropriate fasteners. Where wall type cannot be used, provide floor type. If neither can be used, provide overhead type.
  2. Do not install floor stops more than four (4) inches from the face of the wall or partition (CBC Section 11B-307).
  3. Overhead stops shall be made of stainless steel and non-plastic mechanisms and finished metal end caps. Field-changeable hold-open, friction and stop-only functions.
- L. Protection Plates: Fabricate either kick, armor, or mop plates with four beveled edges. Provide kick plates 10" high and 2" LDW. Sizes of armor and mop plates shall be listed in the Hardware Schedule. Furnish with machine or wood screws of bronze or stainless to match other hardware.
- M. Thresholds: As Scheduled and per details.

1. Thresholds shall not exceed 1/2" in height, with a beveled surface of 1:2 maximum slope.
  2. Set thresholds in a full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements in Division 7 "Thermal and Moisture Protection".
  3. Use 1/4" fasteners, red-head flat-head sleeve anchors (SS/FHSL).
  4. Thresholds shall comply with CBC Section 11B-404.2.5.
- N. Seals: Provide silicone gasket at all rated and exterior doors.
1. Fire-rated Doors, Resilient Seals: UL10C Classified complies with NFPA 80 & NFPA 252. Coordinate with selected door manufacturers' and selected frame manufacturers' requirements.
  2. Fire-rated Doors, Intumescent Seals: Furnished by selected door manufacturer. Furnish fire-labeled opening assembly complete and in full compliance with UL10C Classified complies with NFPA 80 & NFPA 252. Where required, intumescent seals vary in requirement by door type and door manufacture -- careful coordination required.
  3. Smoke & Draft Control Doors, Provide UL10C Classified complies with NFPA 80 & NFPA 252 for use on "S" labeled Positive Pressure door assemblies.
- O. Door Shoes & Door Top Caps: Provide door shoes at all exterior wood doors and top caps at all exterior out-swing doors.
- P. Silencers: Furnish silencers for interior hollow metal frames, 3 for single doors, 2 for pairs of doors. Omit where sound or light seals occurs, or for fire-resistive-rated door assemblies.

### 2.3 KEYING INSTRUCTIONS PER THE DISTRICT

- A. Owner will provide the Facilities Team (PM/CM) Construction Cores and keys required for the project. PM/CM will provide to Maintenance & Operations the number of construction cores required and number of keys requested by the contractor.
- B. Owner will purchase all permanent cores & keys required for new buildings.
- C. PM/CM will provide the required list of cores needed for the project to the Maintenance & Operations maintenance supervisor for ordering.
- D. Owner will provide the Buildings Permanent Cores to the Facilities Team (PM/CM) for turn over to the Contractors Superintendent for installation.
- E. Contractor will return to the Facilities Team (PM/CM) all construction cores at one time. PM/CM will verify all construction cores are accounted for and number of keys issued are returned prior to returning to Maintenance & Operations.
- F. Owner will cut and issue all required building permanent keys.

### 2.4 FINISHES

- A. Generally to be satin chrome US26D (626 on bronze and 652 on steel) unless otherwise noted.
- B. Furnish push plates, pull plates and kick or armor plates in satin stainless steel US32D (630) unless otherwise noted.
- C. Door closers shall be powder-coated to match other hardware, unless otherwise noted.



- D. Aluminum items to be finished anodized aluminum except thresholds which can be furnished as standard mill finish.

## 2.5 FASTENERS

- A. Screws for strikes, face plates and similar items shall be flat head, countersunk type, provide machine screws for metal and standard wood screws for wood.
- B. Screws for butt hinges shall be flathead, countersunk, full-thread type.
- C. Fastening of closer bases or closer shoes to doors shall be by means of sex bolts and spray painted to match closer finish.
- D. Provide expansion anchors for attaching hardware items to concrete or masonry.
- E. All exposed fasteners shall have a phillips head.
- F. Finish of exposed screws to match surface finish of hardware or other adjacent work.
- G. All Exit Devices and Lock Protectors shall be fastened to the door by the means of sex bolts or through bolts.

## PART 3 - EXECUTION

### 3.1 INSPECTION

- A. Verify that doors and frames are square and plumb and ready to receive work and dimensions are as instructed by the manufacturer.
- B. Beginning of installation means acceptance of existing conditions.
- C. Fire-Rated Door Assembly Inspection: Upon completion of the installation, all fire door assemblies shall be inspected to confirm proper operation of the closing device and latching device and that only the manufacturer's furnished fasteners are used for installation and that it meets all criteria of a fire door assembly per NFPA 80 (Standard for Fire Doors and Other Opening Protectives) 2016 Edition. A written record shall be maintained and transmitted to the Owner to be made available to the Authority Having Jurisdiction (AHJ). The inspection of the swinging fire doors shall be performed by a certified FDAI (Fire Door Assembly Inspector) with knowledge and understanding of the operating components of the type of door being subjected to the inspection. The record shall list each fire door assembly throughout the project and include each door number, an itemized list of hardware set components at each door opening, and each door location in the facility.

### 3.2 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and requirements of DHI.
- B. Use the templates provided by hardware item manufacturer.
- C. Mounting heights for hardware shall be as recommended by the Door and Hardware Institute. Operating hardware will to be located between 34" and 44" AFF.
- D. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

- E. Drill and countersink units that are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- F. Set thresholds for exterior doors in full bed of butyl-rubber sealant.
- G. If hand of door is changed during construction, make necessary changes in hardware at no additional cost.
- H. Hardware Installer shall coordinate with security contractor to route cable to connect electrified locks, panic hardware and fire exit hardware to power transfers or electric hinges at the time these items are installed so as to avoid disassembly and reinstallation of hardware.
- I. Hardware Installer shall also be present with the security contractor when the power is turned on for the testing of the electronic hardware applications. Installer shall make adjustments to solenoids, latches, vertical rods and closers to insure proper and secure operation.
- J. All wiring for electro-mechanical hardware mounted on the door shall be connected through the power transfer and terminated in the interface junction box specified for in the Electrical Section.
- K. Conductors shall be minimum 18 gage stranded, multicolored. A minimum 12 in. loop of conductors shall be coiled in the interface junction box. Each conductor shall be permanently marked with its function.
- L. If a power supply is specified in the hardware sets, all conductors shall be terminated in the power supply. Make all connections required for proper operation between the power supply and the electro-mechanical hardware. Provide the proper size conductors as specified in the manufacturer's technical documentation.

### 3.3 ADJUST AND CLEAN

- A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
- B. Clean adjacent surface soiled by hardware installation.
- C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy, return to that work area and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- D. Instruct Owner's Personnel in proper adjustment and maintenance of hardware finishes, during the final adjustment of hardware.
- E. Continued Maintenance Service: Approximately six months after the completion of the project, the Contractor accompanied by the Architectural Hardware Consultant, shall return to the project and re-adjust every item of hardware to restore proper functions of doors and hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

### 3.4 HARDWARE LOCATIONS

- A. Conform to CCR, Title 24, Part 2; and ADAAG; and the drawings for access-compliant positioning requirements for the disabled.

### 3.5 FIELD QUALITY CONTROL

- A. Contractor is responsible for providing the services of an Architectural Hardware Consultant (AHC) or a proprietary product technician to inspect installation and certify that hardware and its installation have been furnished and installed in accordance with manufacturers' instructions and as specified herein.

### 3.6 SCHEDULE

- A. The items listed in the following schedule shall conform to the requirements of the foregoing specifications.
- B. While the hardware schedule is intended to cover all doors, and other movable parts of the building, and establish type and standard of quality, the contractor is responsible for examining the Plans and Specifications and furnishing proper hardware for all openings whether listed or not. If there are any omissions in hardware groups in regard to regular doors they shall be called to the attention of the Architect prior to bid opening for instruction; otherwise, list will be considered Complete. No extras will be allowed for omissions.
- C. The Door Schedule on the Drawings indicates which hardware set is used with each door.

#### **Manufacturers Abbreviations (Mfr.)**

GLY	=	Glynn-Johnson Corporation	Overhead Door Stops
IVE	=	Ives	Hinges, Pivots, Bolts, Coordinators, Dust Proof Strikes, Push Pull & Kick Plates, Door Stops & Silencers
LCN	=	LCN	Door Closers
SCE	=	Schlage Electronics	Electronic Door Components
SCH	=	Schlage Lock Company	Locks, Latches & Cylinders
VON	=	Von Duprin	Exit Devices
ZER	=	Zero International	Thresholds, Gasketing & Weather-stripping

## HARDWARE GROUP NO. 01 - EXTERIOR / ACCESS CONTROL

A101

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL STOREROOM LOCK	ND96JD RHO	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
1	EA	ELECTRIC STRIKE	6211AL FSE EB 12/16/24/28 VAC/VDC	630	VON
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL		
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		VON
1	EA	CARD READER	CARD READER - WORK OF DIVISION 28		

## HARDWARE GROUP NO. 02 - INTERIOR / LACTATION ROOM

A101A

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE W/SIM RETRACT	L9056J 06A L583-363 L283-722	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 03 - EXTERIOR / PANIC HARDWARE / ACCESS CONTROL  
A102

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	LD-RX-PA-AX-99-L-E996-06-FSE- CON 24 VDC	626	VON
1	EA	RIM HOUSING	20-079 (LESS CORE)	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL		
1	EA	WIRE HARNESS	CON-XX (LENGTH AS REQUIRED)		SCH
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		VON
1	EA	CARD READER	CARD READER - WORK OF DIVISION 28		

HARDWARE GROUP NO. 04 - EXTERIOR / ROLL-UP DOOR  
A102A

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1			HARDWARE BY DOOR MANUFACTURER		

HARDWARE GROUP NO. 05 - INTERIOR / CLASSROOM  
A102B

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	VANDL CLASSROOM SEC	ND95JD RHO XN12-035	626	SCH
2	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS436	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

HARDWARE GROUP NO. 06 - EXTERIOR PAIR / PANIC HARDWARE  
A103

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-L-06	626	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-L-DT-06	626	VON
1	EA	RIM HOUSING	20-079 (LESS CORE)	626	SCH
1	EA	MORTISE CYLINDER	26-094 (LESS CORE)	626	SCH
2	EA	MORTISE CYLINDER	26-094 XQ11-948 (LESS CORE)	626	SCH
4	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ TBWMS	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL		
2	EA	DOOR CONTACT	679-05HM	BLK	SCE

HARDWARE GROUP NO. 07 - INTERIOR / CUSTODIAL  
A103A

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	VANDL STOREROOM LOCK	ND96JD RHO	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ TBWMS	689	LCN
1	EA	OH STOP	100S	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

## HARDWARE GROUP NO. 08 - EXTERIOR / UNISEX RESTROOM

A104

A105

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	OFFICE W/SIM RETRACT	L9056T 06A L583-363 L283-722	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
1	EA	LOCK GUARD	LG12	630	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL		
1	EA	DOOR CONTACT	679-05HM	BLK	SCE

## HARDWARE GROUP NO. 09 - EXTERIOR PAIR / MECH

A106

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
2	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP1	626	IVE
1	EA	VANDL STOREROOM LOCK	ND96JD RHO	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	ASTRAGAL	43SP	SP	ZER
1	EA	THRESHOLD	PER DETAIL		
2	EA	DOOR CONTACT	679-05HM	BLK	SCE

HARDWARE GROUP NO. 10 - EXTERIOR / ELECTRICAL / PANIC HARDWARE  
A107

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	PA-AX-99-L-06	626	VON
1	EA	RIM HOUSING	20-079 (LESS CORE)	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL		
1	EA	DOOR CONTACT	679-05HM	BLK	SCE

HARDWARE GROUP NO. 11 - INTERIOR / IDF / ACCESS CONTROL  
A107A

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	VANDL STOREROOM LOCK	ND96JD RHO	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
1	EA	ELECTRIC STRIKE	6211 FSE 12/16/24/28 VAC/VDC	630	VON
1	EA	FLOOR STOP	FS436	626	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		VON
	EA	CARD READER	CARD READER - WORK OF DIVISION 28		

HARDWARE GROUP NO. 12 - EXTERIOR PAIR / GREENHOUSE  
B101

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
1	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP1	626	IVE
1	EA	VANDL STOREROOM LOCK	ND96JD RHO	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	ASTRAGAL	43SP	SP	ZER
1	EA	THRESHOLD	PER DETAIL		



HARDWARE GROUP NO. 13 - EXTERIOR / SLIDING  
B101A

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1			HARDWARE BY DOOR MANUFACTURER		

HARDWARE GROUP NO. 14 - EXTERIOR PAIR / STORAGE  
D101

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP1	626	IVE
1	EA	VANDL STOREROOM LOCK	ND96JD RHO	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
2	EA	KICK PLATE	8400 30" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	ASTRAGAL	43SP	SP	ZER

HARDWARE GROUP NO. 15 - SGL GATE / PASSAGE  
G1

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PASSAGE SET	ND10S RHO	613	SCH
1			BALANCE OF HARDWARE BY GATE MANUFACTURER		

HARDWARE GROUP NO. 16 - PAIR GATES  
G2                      G3

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	VANDL STOREROOM LOCK	ND96JD RHO	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
2	EA	<b>SELF-CLOSING HINGE</b>	<b>MAMMOTH 180</b>	<b>SLVR</b>	<b>LOX</b>
1			BALANCE OF HARDWARE BY GATE MANUFACTURER		

HARDWARE GROUP NO. 17 - SGL GATE

G4

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	VANDL STOREROOM LOCK	ND96JD RHO	626	SCH
1	EA	PERMANENT CORE	PERMANENT CORE PROVIDED BY OWNER	626	SCH
<b>1</b>	<b>EA</b>	<b>SELF-CLOSING HINGE</b>	<b>MAMMOTH 180</b>	<b>SLVR</b>	<b>LOX</b>
1			BALANCE OF HARDWARE BY GATE MANUFACTURER		

HARDWARE GROUP NO. 18 - SLIDING GATE

G5

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1			HARDWARE BY GATE MANUFACTURER		

HARDWARE GROUP NO. 19 - VEHICLE GATES

G6

G7

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1			HARDWARE BY GATE MANUFACTURER		

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