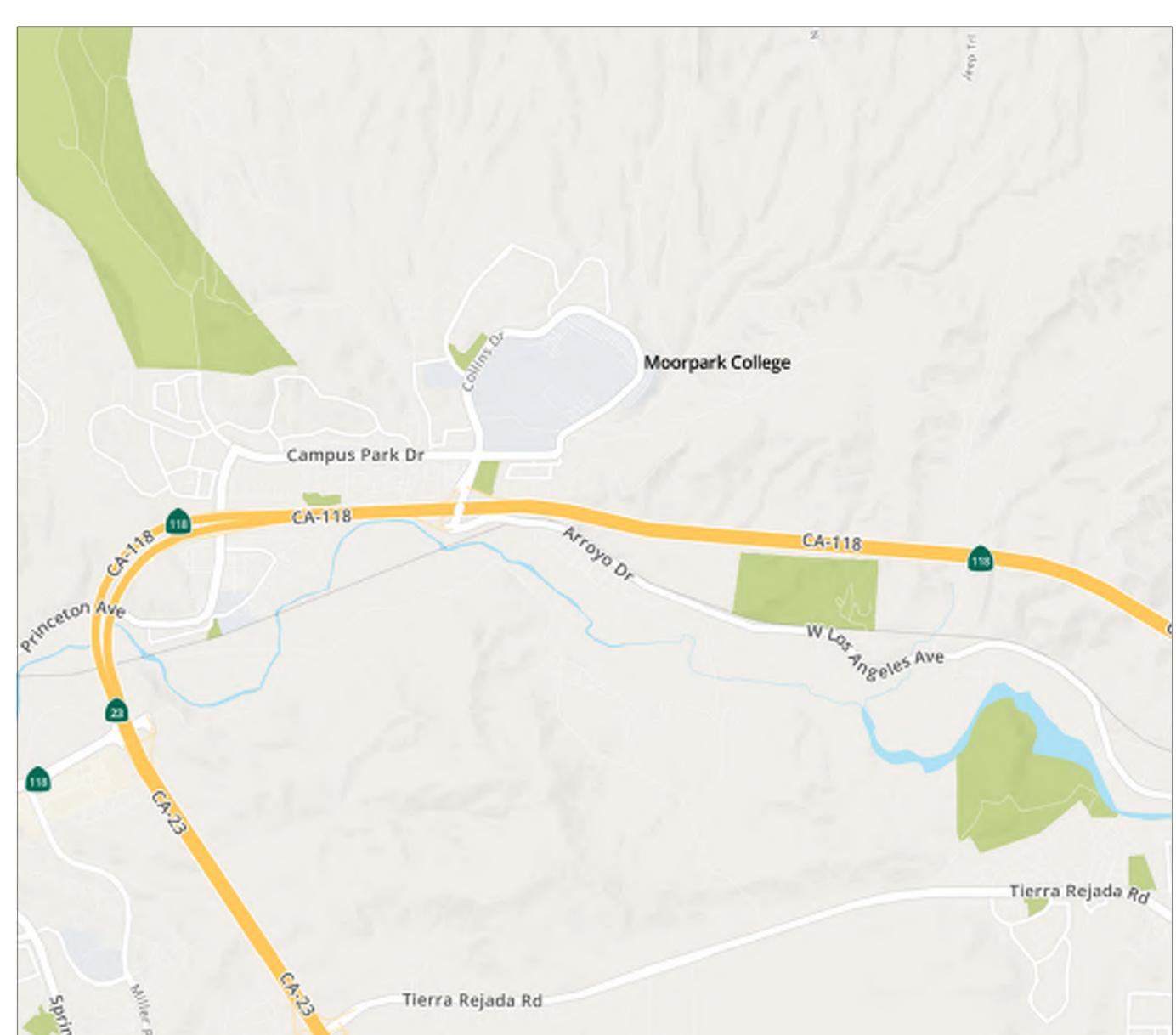


## **VICINITY MAP**



# ALTERATION TO HSC FOR BIO-MANUFACTURING PROGRAM

MOORPARK COLLEGE VENTURA COUNTY COMMUNITY COLLEGE DISTRICT BID 661

SUBMITTAL: BID DOCUMENTS

7075 CAMPUS ROAD DATE: 09/30/2023 MOORPARK, CA 93021

# **SCOPE OF WORK**

1. <u>UTILITY ROOM 205A</u> - REPLACING A THREE COMPARTMENT SINK TO A DOUBLE SINK COMPARTMENT. RELOCATION OF A SINK AND COUNTER AND NEW CASEWORK WITH

2. <u>BIOLOGY STORAGE 209</u> - REPLACING TWO ENTRY DOORS AND DOOR FRAMES. RELOCATION OF WALL HUNG CABINETS.

3. <u>TISSUE CULTURE 204</u> - NEW CASE WORK AND COUNTER TO BE INSTALLED. RELOCATION OF WALL HUNG CABINETS.

4. <u>BIO TECH LAB 205</u> - RELOCATION OF WALL HUNG CABINETS, NEW TASKLIGHTING AND LIGHT SWITCH.

## **PROJECT TEAM**

## **ARCHITECT**

**AMADOR** 28328 AGOURA RD. #203 AGOURA HILLS, CA 93021 (805) 530 - 3938

## **MECHANICAL ENGINEER**

AE GROUP MECHANICAL ENGINEERS, INC. 838 EAST FRONT STREET, VENTURA, CALIFORNIA 93001 (805) 653-1722

## **ELECTRICAL ENGINEER**

LUCCI & ASSOCIATES, INC. 3251 CORTE MALPASO, SUITE 511 CAMARILLO, CALIFORNIA 93012 (805) 389-6520

## **DRAWING LIST**

G000 TITLE SHEET

G001 GENERAL NOTES, ABBREVIATIONS & SYMBOLS ARCHITECTURAL

A101 CAMPUS SITE PLAN A102 ENLARGED DEMO AND NEW PLAN

A401 INTERIOR ELEVATIONS A501 DETAILS

P1 PLUMBING NOTES AND PRODUCT INFORMATION

P2 PLUMBING DEMO, FLOOR PLANS AND DETAILS

E100 GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWING LIST E130 LIGHTING PLAN DEMOLITION

E140 POWER PLAN DEMOLITION E200 EXISTING ELECTRICAL SINGLE LINE DIAGRAM

E300 LIGHTING PLAN E301 UNDER CABINET LIGHTING FOR INTERIOR ELEVATIONS

E201 EXISTING ELECTRICAL PANEL SCHEDULE

E400 POWER PLAN TOTAL SHEETS: 16

DIVISION OF THE STATE ARCHITECT



7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

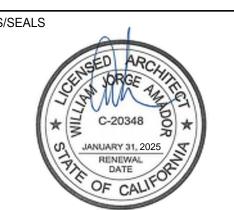
## ALTERATION TO HSC FOR BIO-MANUFACTURING PROGRAM

7075 CAMPUS ROAD MOORPARK, CA 93021

COMMISSIONED ARCHITECT



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TITLE SHEET



## **GENERAL NOTES**

- INTERPRETATION OF CONSTRUCTION DOCUMENTS ALL INFORMATION DEPICTED IN THESE DRAWINGS AND RELATIVE TO EXISTING CONDITIONS IS BASED ON THE BEST AVAILABLE DATA AT THE TIME THESE CONSTRUCTION DOCUMENTS WERE BEING EXCECUTED, BUT WITHOUT GUARANTEE OF ACCURACY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND
- SHALL REPORT ANY DISCREPANICES TO ARCHITECT PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED RESULTING FROM THE REMOVAL OR REPLACEMENT OF WORK INSTALLED WITHOUT PROPER COORDINATION TO ALL OTHER TRADES, AND/OR PRIOR TO OBTAINING CLARIFICATION FROM THE ARCHITECT WHERE CONFLICTING INFORMATION EXISTS ON THE DRAWINGS. THE CONTRACTOR SHALL FURNISH ALL BIDDERS WITH A COMPLETE SET OF CONSTRUCTION DOCUMENTS,
- INCLUDING BUT NOT LIMITED TO DRAWINGS, SPECIFICATIONS AND ADDENDUMS. THE CONTRACTOR IN CONJUNCTION WITH HIS SUBCONTRACTORS SHALL INCLUDE COMPLETE COORDINATION BETWEEN THE VARIOUS DISCIPLINES AS WELL AS ALL OTHER REQUIREMENTS OF THESE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO CODE AND PUBLIC UTILITY REQUIREMENTS. FURTHER, WHERE THERE ARE CONFLICTING SOLUTIONS IN THE CONSTRUCTION DOCUMENTS, ALL SUCH ITEMS WILL BE CONSIDERED TO INCLUDE THE MOST STRINGENT OF THE POSSIBLE SOLUTIONS DEPICTED IN THE CONSTRUCTION DOCUMENTS. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE
- CONTRACTOR SHALL VISIT THE SITE TO INVESTIGATE AND VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS AT JOB SITE PRIOR TO START OF WORK.
- ALL DIMENSIONS INDICATED ARE BELIEVED TO BE ACCURATE, BUT ARE NOT GUARANTEED TO BE SO. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. COORDINATE WITH EXISTING CONDITIONS WHERE INSUFFICIENT DETAIL DIMENSIONS ARE AVAILABLE. ALL DIMENSIONS ARE TO FINISHED FACE OF CONSTRUCTION OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE. DIMENSIONS NOTED AT "CLR" (CLEAR) ARE
- DIMENSIONS SHOWN SHALL HAVE PREFERENCE OVER SCALE. DO NOT SCALE DRAWINGS. DIMENSIONS ARE TAKEN FROM FACE OF EXISTING FINISH SURFACE OR FACE OF NEW STUD, UNLESS NOTED OTHERWISE.
- ALL ITEMS INCLUDING BUILDINGS SHOWN ARE NEW UNLESS NOTED EXISTING (E).

NOT ADJUSTABLE WITHOUT ARCHITECT'S APPROVAL.

- CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING PIPELINES AND UTILITIES THAT ARE TO REMAIN IN SERVICE. CONTRACTOR SHALL VERIFY THAT THOSE PIPELINES AND UTILITIES TO BE REMOVED HAVE BEEN DISCONNECTED, SHUT DOWN OR ABANDONED PRIOR TO ATTEMPTING REMOVAL OR DEMOLITION IN A MANNER TO AVOID ANY DISRUPTION OF EXISTING FACILITIES.
- CONTRACTOR SHALL PROTECT ALL SURFACES & FIXTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- ALL DAMAGE DONE TO EXISTING CONSTRUCTION AS A RESULT OF DEMOLITION OR INSTALLATION SHALL BE COMPLETELY REPAIRED BY CONTRACTOR AT OR NO COST TO OWNER. REPAIRED WORK SHALL MATCH EXISTING CONSTRUCTION.
- 9. CONTRACTOR SHALL REPAIR AND PATCH UP ALL DAMAGES TO EXISTING SURFACES CAUSED BY REMOVAL OF EXISTING EQUIPMENT ATTACHED TO EXISTING SURFACES. (CHALKBOARDS, BOOKSHELVES, TACKBOARDS, WALL HEATERS, PIPING,
- WHERE PATCHES ARE REQUIRED IN EXISTING, SURFACES ADJACENT MATERIAL SHALL BE MATCHED IN TEXTURE AND
- "DEMOLISH" AND "REMOVE" SHALL MEAN TO DEMOLISH, REMOVE FROM THE SITE AND DISPOSE OF IN A LEGAL MANNER UNLESS NOTED OTEHRWISE. TERMINATE PIPING BELOW SUBSTRATE FOR PATCHING. ELECTRICAL WIRE DISCONNECT SHALL BE AT THE SOURCE OF POWER.
- CONTRACTOR TO HAVE ALL SALVAGE RIGHTS TO ALL DEMOLISHED COMPONENTS AND EQUIPMENT. SALVAGE RIGHTS TO BE REFLECTED IN THE BID PROPOSAL TO THE DISTRICT BY WAY OF A BID REDUCTION. THE DISTRICT DOES NOT WANT ANY DEMOLISHED COMPONENTS OR EQUIPMENT BACK.
- 13. CONTRACTOR SHALL THOROUGHLY CLEAN AND SECURE THE AREA OF CONSTRUCTION AFTER EACH DAY OF WORK. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS OFF SITE.
- LOCATIONS OF STRUCTURES. UNDERGROUND PIPELINES AND UTILITIES WERE OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF ALL PIPELINES AND UTILITIES BEFORE COMMENCING DEMOLITON, EARTHWORK OR CONSTRUCTION WORK.
- 15. GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. ALL QUESTIONS SHALL BE SENT TO ARCHITECT.
- 16. ALL SALVAGEABLE MATERIALS AND EQUIPMENT TO BE REMOVED SHALL REMAIN THE SOLE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL CONSULT WITH THE OWNER CONCERNING STORAGE AND/OR DISPOSAL OF SUCH EQUIPMENT. OWNER HAS FULL SALVAGE RIGHTS. ALL REMOVED MATERIALS OTHER THAN ITEMS TO BE SALVAGED, OR REUSED SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE PROJECT SITE.
- ALL WORK, INCLUDING REMOVAL OF EXISTING WORK, SHALL BE PERFORMED IN A MANNER THAT MINIMIZES THE AMOUNT OF NOISE, DUST, TRAFFIC AND/OR OTHER FORMS OF DISTURBANCES IN COMPLIANCE WITH ALL APPLICABLE CODES AND ORDINANCES SO THAT THE PUBLIC, STUDENTS AND STAFF, AS WELL AS OTHER OCCUPIED AREAS OF THE SCHOOL ARE SUBJECTED TO AS LITTLE DISRUPTION AS REASONABLY POSSIBLE.
- ROUTES OF INGRESS AND EGRESS FOR MATERIALS AND WORKMEN, AND LIMITS OF THE PROJECT AREA MAY BE DESIGNATED BY THE OWNER. THE CONTRACTOR SHALL CONFINE HIS ACTIVITES WITHIN SUCH LIMITS. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ADEQUATE SAFETY AND DUST BARRIERS IN THE SITE, ACROSS CORRIDORS AND ELSEWHERE AS REQUIRED.
- SHUT DOWN OF EXISTING AND OPERATING PLUMBING, MECHANICAL AND ELECTRICAL SYSTEMS OR PORTIONS THEREOF SHALL BE COORDINATED IN ADVANCE WITH THE OWNER.
- 20. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THE ARCHITECTURAL DRAWINGS WITH THE SPECIFICATIONS AND THE WORK SHOWN ON THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. ANY DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITIING BEFORE PROCEEDING WITH ANY RELATED WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIRE RATING CONTINUITY OF STRUCTURE, WALLS, FLOOR AND CEILINGS INTERRUPTED BY THE WORK OF ALL TRADES. THIS INCLUDES, BUT IS NOT LIMITED TO, FIRE RATED ENCLOSURES AT THE CEILING AND WALLS OF CORRIDORS AND STORAGE ROOMS, AND DUCT SHAFTS.
- PROVIDE ALL NECESSARY BLOCKING, BACKING AND FRAMING FOR LIGHT FIXTURES, ELECTRICAL UNITS, A/C EQUIPMENT, TOILET FIXTURES & ACCESSORIES, RAILINGS, GRAB BARS, AND ALL OTHERS REQUIRING SAME.
- 23. CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FINISH FACE OF CEILING.
- 24. WHERE NEW WALLS ALIGNS WITH EXISTING WALL, PROVIDE SMOOTH INVISIBLE TRANSITION BETWEEN NEW AND EXISTING.
- 25. NEW GYPSUM BOARD FINISH SHALL BE 5/8" TYPE 'X' OR AS REQUIRED FOR UL FIRE-RATING AS INDICATED ON DRAWINGS.
- 26. GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY EIGHT (8) FEET HIGH CHAIN LINK FENCE BARRICADES AT WORK AREAS, DISTRICT APPROVED STORAGE AREAS AND WHEREVER NECESSARY TO MAINTAIN A SAFE PASSAGE AND SAFE ENVIRONMENT.
- LAYOUT OF CUTTING OR CORING AND SHALL HAVE THE APPROVAL BY THE STRUCTURAL ENGINEER AND THE D.S.A. FIELD DISTRICT ENGINEER IN ORDER TO PROCEED WITH THE CUTTING OR CORING. SAW-CUT EXISTING A.C. PAVING AND/OR CONCRETE FLOOR SLAB AS REQUIRED FOR NEW PIPE INSTALLATION AND NEW

BEFORE PROCEEDING WITH THE CORING OR CUTTING OF WALLS AND FLOORS, ETC., THE CONTRACTOR SHALL PREPARE

- DEPRESSED CONCRETE SLAB, AND REPAIR TO MATCH EXISTING.
- SLABS ON EARTH, SIDEWALKS AND CURBS: 3,000 PSI AT 28 DAYS FOUNTATIONS: 3,000 PSI AT 28 DAYS
- FILL ON METAL DECK (LIGHTWEIGHT): 3,000 PSI AT 28 DAYS
- 30. THE CONTRACTOR SHALL NOT COMMENCE THE WORK, IN PART OR IN FULL, PRIOR TO OBTAINING THE NOTICE-TO-
- 31. IN CASE OF CONFLICT, THE MORE EXPENSIVE CONSTRUCTION MEANS AND METHOD SHALL BE USED.
- 32. THE PROVISIONS OF CFC AND CBC CHAPTERS 7,11 & 33 SHALL BE ENFORCED ON THIS PROJECT.
- 33. NO DEFERRED SUBMITTAL ITEMS.

29. STRENGTH OF CONCRETE:

## GENERAL REQUIREMENTS

- THIS PROJECT SHALL COMPLY WITH THE 2019 EDITION OF THE CALIFORNIA CODE OF REGULATIONS TITLE 24 WHICH INCLUDES THE 2022 CALIFORNIA BUILDING CODE. THE CALIFORNIA GREEN BUILDING STANDARDS CODE AND THE 2022 CALIFORNIA FIRE CODE BASED ON THE 2018 INTERNATIONAL FIRE CODE, AND ADOPTS THE 2018 IBC, 2019 UMC, 2019 UPC, AND THE 2017 NEC.
- 2. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
- THESE GENERAL NOTES UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS, INTERNATIONAL BUILDING CODE, ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, ORDINANCES, LAWS, REGULATIONS AND PROTECTIVE COVENANTS GOVERNING THE SITE OF WORK.
- STANDARD SPECIFICATIONS OF ASTM.
- IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. "OR EQUAL": THE CONTRACTOR SHALL SUBMIT FOR THE ARCHITECT'S APPROVAL ALL MATERIALS OR EQUIPMENT WHICH IS CONSIDERED "OR EQUAL" TO THAT SPECIFIED.

#### 3. ON SITE VERIFICATION:

OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS. NOTED DIMENSIONS TAKE PRECEDENT OVER SCALE. EACH CONTRACTOR OR SUB-CONTRACTOR SHALL REPORT TO PROJECT SUPERINTENDENT ALL CONDITIONS WHICH PREVENT THE PROPER EXECUTION OF THEIR WORK.

4. CLIENT'S ARCHITECT AND PROJECT SUPERINTENDENT:

TO BE NOTIFIED IMMEDIATELY BY CONTRACTOR OR SUB-CONTRACTOR SHOULD ANY DISCREPANCY OR OTHER QUESTION ARISE PERTAINING TO THE WORKING DRAWINGS AND/OR SPECIFICATIONS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT OF BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK.

#### SUB-CONTRACTOR:

SHALL INSURE THAT ALL WORK IS DONE IN A PROFESSIONAL WORKMANLIKE MANNER BY SKILLED MECHANICS AND SHALL REPLACE ANY MATERIALS OR ITEMS DAMAGED BY SUB-CONTRACTORS' PERFORMANCE. SUB-CONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK. ALL SUB-CONTRACTOR WORKMANSHIP WILL BE OF QUALITY TO PASS INSPECTIONS BY LOCAL AUTHORITIES, LENDING INSTITUTIONS OR ARCHITECT. ANY ONE OR ALL OF THE ABOVE MENTIONED INSPECTORS MAY INSPECT WORKMANSHIP AT ANY TIME, AND ANY CORRECTIONS NEEDED TO ENHANCE THE QUALITY OF BUILDING WILL BE DONE IMMEDIATELY. EACH SUB-CONTRACTOR, UNLESS SPECIFICALLY EXEMPTED BY THE TERMS OF HIS SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LEFT BY OTHER SUB-CONTRACTORS. CONTRACTOR WILL DETERMINE HOW SOON AFTER SUB-CONTRACTOR COMPLETED EACH PHASE OF HIS WORK THAT TRASH AND DEBRIS WILL BE REMOVED FROM THE SITE.

## APPLICABLE CODES

## LIST OF 2022 CALIFORNIA CODE OF REGULATIONS (C.C.R.):

APPLICABLE CODES AS OF JANUARY 1, 2023 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE. TITLE 24 C.C.R. 2022 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R.

PART 4 - 2022 CALIFORNIA MECHANICAL CODE. TITLE 24 C.C.R.

(2018 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL. WITH CALIFORNIA AMENDMENTS) 2022 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R.

(2017 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

(2018 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO) 2022 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R.

(2018 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2022 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R. CURRENTLY VACANT

2022 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R. 2022 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE

CODE OF THE INTERNATIONAL CODE COUNCIL) 2022 CALIFORNIA EXISTING BUILDING CODE (2018 INTERNATIONAL

EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE).

TITLE 24 C.C.R. PART 12 - 2022 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS 2022 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAP. 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17a	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS	2016 EDITION
	(CALIFORNIA AMENDED)	
NFPA 72	NATIONAL FIRE ALARM CODE	2016 EDITION
	(CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
		==:===:::

DEPARTMENT OF JUSTICE REGULATIONS FOR TITLE II OF THE AMERICANS WITH DISABILITIES ACT OF 1990 WITH REVISED REGULATIONS AS PUBLISHED IN THE FEDERAL REGISTER ON SEPTEMBER 15, 2010, EFFECTIVE MARCH 15, 2012. TITLED ADA STANDARDS FOR ACCESSIBLE DESIGN.

## **ABBREVIATIONS**

**ABBREVIATIONS** AND HEIGHT **EXISTING** INCHES **INFORMATION** ANCHOR BOLT INSULATION INT INTERIOR ASPHALTIC CONCRETE ABOVE FINISH FLOOR KD KNOCK DOWN LBS AIR CONDITIONER POUNDS ACOUST ACOUSTICAL MASONRY OPENING ALUMINUM MOISTURE RESISTANT ALUMINUM MATL MATERIAL ANODIZED MAXIMUM ARCHITECTURAL **MECHANICAL BLDG** BUILDING **MANUFACTURER** BLOCK OR BLOCKING BLK MINIMUM MISC BOTTOM **MISCELLANEOUS** C.I. MTL CAST IRON METAL CEILING JOIST NOT IN CONTRACT AND NOT PART OF THIS CHAIN LINK APPLICATION C.L.F. CHAIN LINK FENCE NOT TO SCALE C.M.U. CONCRETE MASONRY UNIT NOT AVAILABLE CAB **CABINET** NO., # NUMBER CEILING ON CENTER CLR CLEAR OPNG OPENING COL COLUMN **OPPOSITE** CONC CONCRETE POINT **CONST** CONSTRUCTION PWD PLYWOOD CONT CONTINUOUS RISER PENNY REFLECTED CEILING PLAN DOUGLAS FIR **ROOF DRAIN** DOUBLE **ROUGH OPENING** DEMOLITION REFERENCE DETAIL REFLECTED DIAMETER REINFORCING **DIMENSION** REQUIRED DIVISION REV **REVISION** RMROOM **DOWNSPOUT** SOLID CORE DWG DRAWING S.F. SQUARE FEET **EXPANSION JOINT** S.S. STAINLESS STEEL EACH SCHED SCHEDULE **ELEC** ELECTRICAL **SECT EQUAL EQUIPMENT** EXP **EXPANSION** STD STANDARD STEEL FLOOR DRAIN STOR STORAGE FIRE EXTINGUISHER STRUCT STRUCTURAL FIRE EXTINGUISHER SUSPEND, SUSPENDED CABINET T & G TONGUE AND GROOVE FINISH FLOOR TOP OF CURB FINISH GRADE T.O.P. TOP OF PLATE FIRE RATED, FIRE TOP OF PARAPET RESISTANT **FINISH** TOP OF WALL **FULL HEIGHT** TELEPHONE **FLOOR** THICK TYPICAL FOOT OR FEET **UNDERWRITERS** LABORATORIES FOOTING UNLESS NOTED GLASS FIBER FACED OTHERWISE GALVANIZED IRON VERIFY IN FIELD V.I.F. G.W.B. GYPSUM WALLBOARD VERTICAL GAUGE W.H. WATER HEATER GALV GALVANIZED WATER RESISTANCE GEN **GENERAL** W.W.M. WELDED WIRE MESH GYP GYPSUM WITH **HOLLOW METAL** WD WOOD HDR HEADER

WDW

WINDOW

## **LEGEND**

**DRAWING REFERENCE** DRAWING IDENTIFICATION DIRECTION INDICATOR (WHERE APPLIES) SHEET NUMBER WHERE DRAWN DRAWING TITLE DRAWING NAME DRAWING IDENTIFICATION **DETAIL REFERENCE** DETAIL NUMBER SHEET NUMBER WHERE DRAWN COLUMN CENTERLINES **GRID LINE NUMBER** GRID LINE ROOM IDENTIFICATION CONFERENCE ROOM **ROOM NUMBER** KEY NOTES WALL TYPE, SEE 1/A5000 SIGN NUMBER. SEE SIGNAGE SCHEDULES -------EXISTING WALL TO BE REMOVED L----EXISTING ITEM TO BE REMOVED \_\_\_\_\_ **NEW MASONRY WALL EXISTING STUD WALL TO REMAIN NEW STUD WALL** NEW 2-HR RATED STUD WALL EXISTING CONCRETE WALL/COLUMN TO REMAIN NEW CONCRETE WALL DOOR REFERENCE, SEE SHEET A601 WINDOW REFERENCE, SEE SHEET A601 ITEM BEING REFERENCED TOP OF STEEL EL +20' - 0" DATUM ELEVATION 5'-0" DIAMETER CLEAR SPACE

30" X 48" CLEAR SPACE

DIVISION OF THE STATE ARCHITECT

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PROJECT TITLE AND SCHOOL LOCATION

## ALTERATION TO HSC FOR BIO-MANUFACTURING **PROGRAM**

7075 CAMPUS ROAD MOORPARK, CA 9302'

COMMISSIONED ARCHITECT

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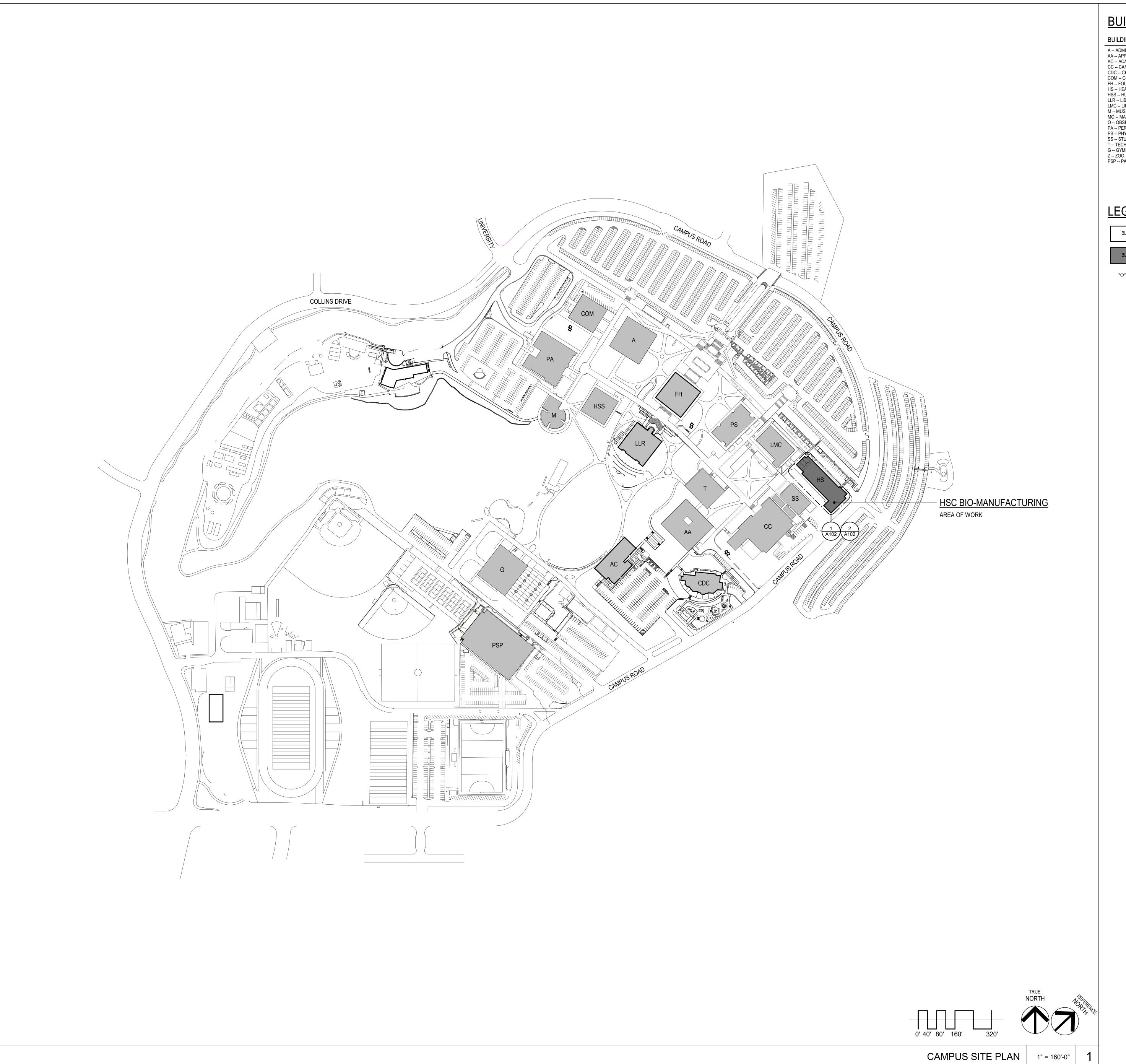
CONSULTANT

STAMPS/SEALS

**GENERAL NOTES** SYMBOLS

PROJECT NO. 23-MPC-045

SHEET TITLE:



# **BUILDINGS LEGEND**

BUILDING	A#	CERTIFICATION DATE
A ADMINISTRATION	A#27079	01/23/1979
AA APPLIED ARTS	A#27214	01/20/1969
AC ACADEMIC CENTER	A#03-110305	01/05/2015
CC CAMPUS CENTER	A#27214	01/20/1969
CDC CHILD DEVELOPMENT CENTER	A#03-107539	07/29/2010
COM COMMUNICATIONS	A#51411	02/09/1995
FH FOUNTAIN HALL	A#03-108616	07/03/2013
HS HEALTH SCIENCE	A#03-111305	12/12/2012
HSS HUMANITIES / SOCIAL SCIENCE	A#35424	02/05/1976
LLR LIBRARY / LEARNING SOURCES	A#03-104726	11/20/2012
LMC LIFE / MATH / COMPUTER SCIENCE	A#27214	01/20/1969
M MUSIC	A#35424	02/05/1976
MO MAINTENANCE / OPERATIONS	A#27079	01/23/1969
O OBSERVATORY	A#47124	04/05/1989
PA PERFORMING ARTS	A#57288	08/08/1999
PS PHYSICAL SCIENCE	A#27214	01/20/1969
SS STUDENT SERVICES	A#40577	12/12/1978
T TECHNOLOGY / BUSINESS	A#31714	06/16/1971
G GYMNASIUM	A#27349	08/21/1968
Z ZOO	A#03-111321	05/23/2013
PSP PARKING STRUCTURE / POLICE STATION	A#03-114024	11/15/2016

## <u>LEGEND</u>

AREA OF WORK - NEW BLDG OR ADDITION

EXISTING BUILDINGS - NOT PART OF SCOPE OF WORK

(E)FH (E) FIRE HYDRANT

DIVISION OF THE STATE ARCHITECT

7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

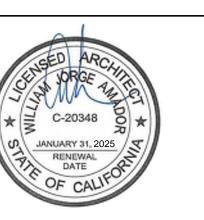
## ALTERATION TO HSC FOR **BIO-MANUFACTURING** PROGRAM

7075 CAMPUS ROAD MOORPARK, CA 93021

COMMISSIONED ARCHITECT

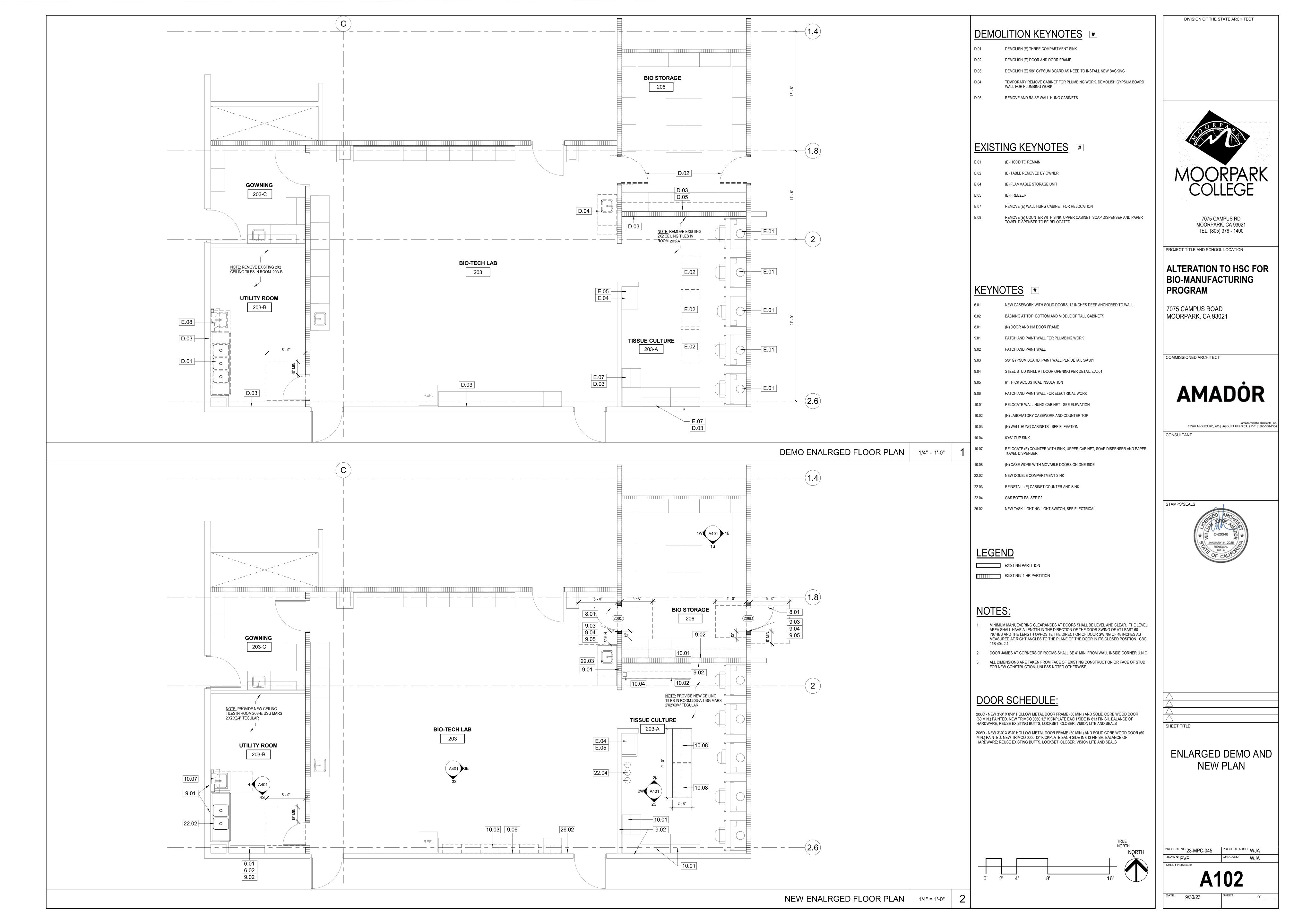
# **AMAD**OR

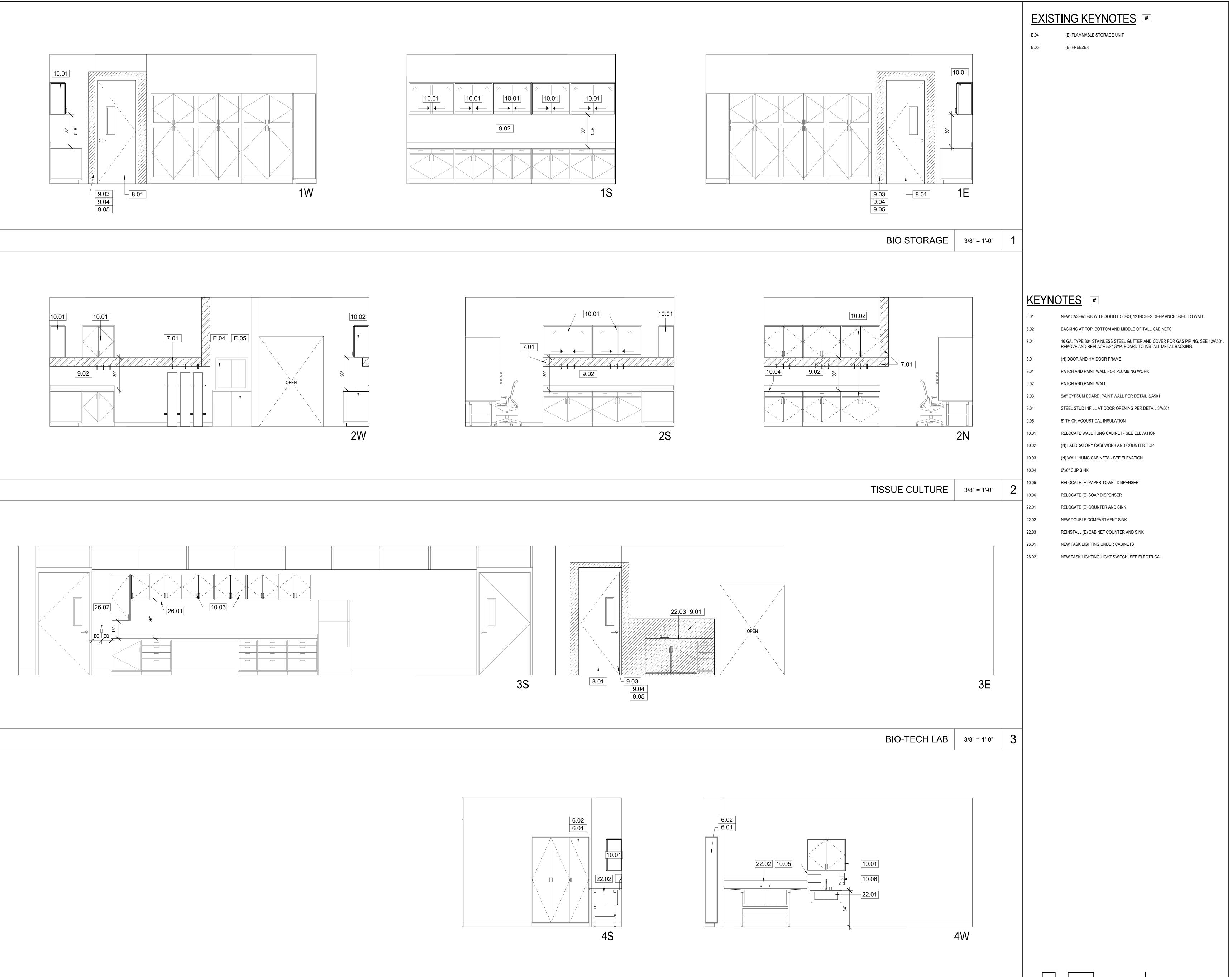
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CAMPUS SITE PLAN

PROJECT NO. 23-MPC-045





DIVISION OF THE STATE ARCHITECT



7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

# ALTERATION TO HSC FOR BIO-MANUFACTURING PROGRAM

7075 CAMPUS ROAD MOORPARK, CA 93021

COMMISSIONED ARCHITECT

# **AMAD**OR

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JINSULTANT

STAMPS/SEALS



INTERIOR ELEVATIONS

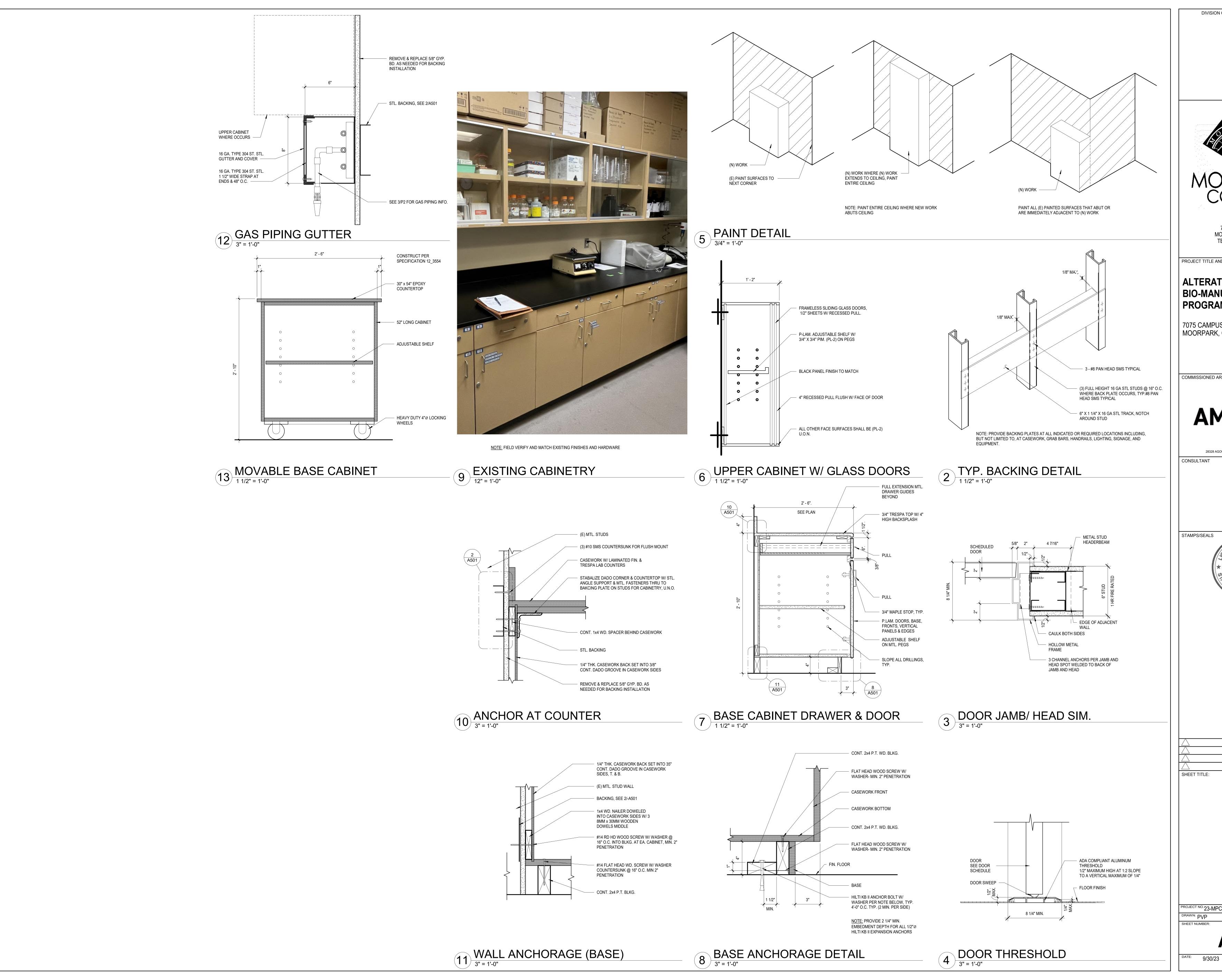
PROJECT NO. 23-MPC-045 PROJECT ARCH: WJA

DRAWN: PVP CHECKED: WJA

A401

FE: 9/30/23 SHEET:

UTILITY ROOM 3/8" = 1'-0"



DIVISION OF THE STATE ARCHITECT



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PROJECT TITLE AND SCHOOL LOCATION

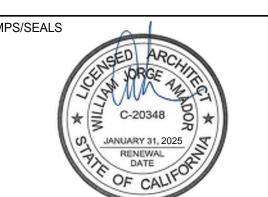
## ALTERATION TO HSC FOR **BIO-MANUFACTURING** PROGRAM

7075 CAMPUS ROAD MOORPARK, CA 93021

COMMISSIONED ARCHITECT

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STAMPS/SEALS



**DETAILS** 

PROJECT ARCH: WJA PROJECT NO. 23-MPC-045 WJA

\_\_\_\_ OF \_\_\_\_

## PLUMBING NOTES

DISCREPANCY, DEFECT, OR CONFLICT THEREIN.

1. SCOPE OF WORK: PLUMBING WORK INCLUDES THE FOLLOWING: FURNISH AND INSTALL ALL PIPING AND PLUMBING FIXTURES SHOWN ON THE PLUMBING, AND ELECTRICAL ENGINEERING DRAWINGS AND DESCRIBED IN THESE NOTES. IN CONNECTION WITH THIS WORK, CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY LABOR. DEVICES, HARDWARE AND SYSTEMS REQUIRED TO MAKE SAID SYSTEMS PROPERLY AND SAFELY OPERABLE, INCLUDING, BUT NOT LIMITED TO, PIPING, VALVES, FAUCETS AND ANCHORAGE.

2. EXAMINATION OF SITE AND CONTRACT DOCUMENTS. EACH BIDDER SHALL, AT ITS SOLE COST AND EXPENSE, INSPECT THE SITE OF THE PROPOSED WORK TO BECOME FULLY ACQUAINTED WITH CONDITIONS RELATING TO THE WORK AND TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT DOCUMENTS AND COST THEREOF BIDDERS SHALL THOROUGHLY REVIEW AND BE FAMILIAR WITH THE CONTRACT DOCUMENTS, INCLUDING WITHOUT LIMITATION, THE SPECIFICATIONS AND THE DRAWINGS. THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY OF THE CONTRACT DOCUMENTS, FORMS, INSTRUMENTS, ADDENDA, OR OTHER DOCUMENTS OR TO INSPECT THE SITE SHALL NOT RELIEVE SUCH BIDDER FROM ANY OBLIGATIONS WITH RESPECT TO THE BID PROPOSAL, THE CONTRACT OR THE WORK REQUIRED UNDER THE CONTRACT DOCUMENTS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY TO ANY BIDDER FOR, NOR SHALL THE OWNER BE BOUND BY, ANY UNDERSTANDINGS, REPRESENTATIONS OR AGREEMENTS OF THE DISTRICT'S AGENTS, EMPLOYEES OR OFFICERS CONCERNING THE CONTRACT DOCUMENTS OR THE WORK MADE PRIOR TO EXECUTION OF THE CONTRACT.

. INTERPRETATION OF DRAWINGS, SPECIFICATIONS OR CONTRACT DOCUMENTS. IF ANY BIDDER IS IN

DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS; FINDS DISCREPANCIES, ERRORS OR OMISSIONS THEREIN; OR FINDS VARIANCES IN ANY OF THE CONTRACT DOCUMENTS WITH APPLICABLE RULES, REGULATIONS ORDINANCES AND/OR LAWS. A WRITTEN REQUEST FOR AN INTERPRETATION OR CORRECTION THEREOF MAY BE SUBMITTED TO THE ENGINEER. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE BIDDER TO SUBMIT SUCH REQUEST IN SUFFICIENT TIME FOR THE PREPARATION OF A RESPONSE THERETO AND DELIVERY OF SUCH RESPONSE TO ALL BIDDERS PRIOR TO THE SCHEDULED CLOSING FOR RECEIPT OF BID PROPOSALS. ANY REQUEST OF ANY BIDDER, PURSUANT TO THE FOREGOING SENTENCE THAT IS MADE LESS THAN SEVEN DAYS PRIOR TO THE SCHEDULED CLOSING DATE FOR THE RECEIPT OF BID PROPOSALS SHALL BE DEEMED UNTIMELY. ANY INTERPRETATION OR CORRECTION OF THE CONTRACT DOCUMENTS WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED BY THE DISTRICT OR THE ENGINEER. A COPY OF ANY SUCH ADDENDUM WILL BE MAILED OR OTHERWISE DELIVERED TO EACH BIDDER RECEIVING A SET OF THE CONTRACT DOCUMENTS. NO PERSON IS AUTHORIZED TO RENDER AN ORAL INTERPRETATION OR CORRECTION OF ANY PORTION OF THE CONTRACT DOCUMENTS TO ANY BIDDER, AND NO BIDDER I AUTHORIZED TO RELY ON ANY SUCH ORAL INTERPRETATION OR CORRECTION. FAILURE TO REQUEST INTERPRETATION OR CLARIFICATION OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS PURSUANT TO THE FOREGOING SHALL BE DEEMED TO BE A WAIVER OF ANY

4. DIMENSIONS. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE PROCEEDING WITH WORK. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON WORKING DRAWINGS. ALL SIZES OF EQUIPMENT AND MATERIALS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER. ALL PLUMBING FIXTURES SHALL BE INSTALLED PER THE DIMENSIONS ON THE ARCHITECTURAL DRAWINGS

5. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA PLUMBING CODE, THE 2022 CALIFORNIA MECHANICAL CODE, THE 2022 CALIFORNIA BUILDING CODE, THE STATE OF CALIFORNIA, AND STANDARD CONSTRUCTION PRACTICES. ALL PLUMBING FIXTURES SHALL BE IN STRICT ACCORDANCE WITH THE FIXTURE SCHEDULE, AND SHALL BE NEW AND FREE FROM DEFECTS CONTRACTOR SHALL OBTAIN APPROVED INSPECTIONS FOR ALL WORK AS REQUIRED BY OWNER, DSA, AND LOCAL JURISDICTION. CONTRACTOR SHALL MAINTAIN IN EFFECT ALL INSURANCE REQUIRED BY STATE LAWS LOCAL JURISDICTION, AND GENERAL CONTRACTOR / DISTRICT, WHERE CONFLICT OR VARIATION EXISTS AMONGST CODES, SPECIFICATIONS, OR DRAWINGS, THE MOST STRINGENT SHALL GOVERN.

6. WATER PIPING: ALL ABOVE GROUND COLD PIPES IN BUILDINGS SHALL BE US MANUFACTURERED TYPE "L" HARD COPPER WITH (NON-LEAD) SOLDER SWEAT JOINTS, WHERE PIPES PIERCE FINISHED SURFACES, CHROME PLATED BRASS ESCUTCHEONS WITH SET SCREW (BRASSCRAFT CB SERIES OR EQUAL) SHALL BE INSTALLED. LAVATORY AND SINK STOPS SHALL BE BRASSCRAFT, LEAD FREE, ANGLE, WITH LOOSE KEY. SUPPORT ALL PIPING ON STRUT WITH PLASTIC STRUT ENDS AND ISOLATED PIPE CLAMPS. SUPPORT AT 4 FT OC AT WALL AND AT 6 FT OC ABOVE CEILING. EXTEND EXISTING DI WATER IN PEX PIPING TO NEW DI WATER FAUCET WITH SCH 80 1/2" PVC VALVE

7. WASTE AND VENT PIPING: ALL DRAINS, VENTS, FITTINGS, AND THE BUILDING DRAIN SHALL BE U.S. MANUFACTURED "NO-HUB" CAST IRON WITH NSF-CERTIFIED STAINLESS STEEL BAND CLAMPS. ALL LINES SHALL BE SLOPED @ 1/4"/FT MIN OR IN COMPLIANCE WITH CODE. LAVATORY AND SINK P-TRAPS SHALL BE INSTITUTIONAL GRADE CHROME PLATED VANDAL-PROOF HEAVY DUTY CAST BRASS, McGUIRE MFG CO "VANDAL TRAP", OR EQUAL. WHERE DRAINS PENETRATE WALLS, CHROME PLATED CAST BRASS ESCUTCHEONS WITH SET SCREWS SHALL BE INSTALLED.

8. COMPRESSED GAS PIPING: ALL COMPRESSED GAS PIPING SHALL BE 3/8" STAINLESS STEEL TYPE 316 TUBING WITH SWAGELOK FITTINGS. SUPPORT ON STAINLESS STEEL STRUT (PLASTIC STRUT ENDS) WITH VIBRASORB CLAMPS. INSTALL WITHIN STAINLESS STEEL SHROUD PER ARCHITECTURAL. INSTALL EXCHANGE COMPRESSED GAS BOTTLES WITH SEISMIC RESTRAINTS. INSTALL PRESSURE REGULATOR AND CONNECT TO NEW PIPING WITH BRAIDED STAINLESS STEEL HOSE RATED FOR LISTED REGULATOR

9. CONSTRUCTION OBSERVATION: IN ADDITION TO THE REQUIREMENT FOR OBTAINING INSPECTIONS BY THE LOCAL JURISDICTION, CONTRACTOR SHALL NOTIFY ENGINEER AT APPROPRIATE TIMES DURING THE CONSTRUCTION PROCESS SO THAT ENGINEER CAN VISIT SITE TO BECOME GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF CONTRACTOR'S WORK AND TO DETERMINE IF THE WORK IS PROCEEDING IN GENERAL ACCORDANCE WITH THE CONTRACT DOCUMENTS

#### 937-CHAGVCP a Geberit company Needle Valves Product Type Panel Mounted Single Needle Valves Needle Valve Features & Specifications Item Number Full Flow Nozzle • 2-1/2" Vandal Proof Cross Needle Valve Model Specified • 3/8" - 18 NPT Male Thread Inlet · May Be Used with Most Laboratory Gases • \*\* 937 Valve is Certified for Gas Service per ANSI Z21.15b-2006/CSA 9.1b-2006 by the Canadian Standards Association **Performance Specification**

Submitted as Shown

MECHANICAL FAUCETS

Compatibility by Service (Maximum Pressure):

• 0-0.5 PSI\*\*

- Acetylene (125 PSI)

Carbon Dioxide (125 PSI) Carbon Monoxide (125 PSI)

- Ammonia (125 PSI)

- Argon (125 PSI)

- Butane (125 PSI)

Helium (125 PSI)

Hydrogen (125 PSI)

- Methane (125 PSI)

Nitrogen (125 PSI)

Propane (125 PSI) - Air (125 PSI)

Warranty

Compressed Air (125 PSI)

Lifetime Limited Faucet Warranty 5-Year Limited Cartridge Warranty

\*\*ANSI Z21.15b-2006/CSA 9.1b-2006

1-Year Limited Finish Warranty

Codes & Standards

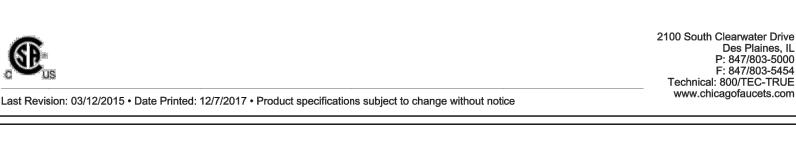
- Natural Gas (125 PSI)



CHICAGO >

FAUCETS -

[ ] Submitted with Variations



### CHICAGO FAUCETS. **Manual Sink Faucets** 540-LDL12ABCP Product Type Wall-mounted manual faucet with adjustable centers Features & Specifications Item Number Handles include color-coded index 8" body, adjustable arms 7-1/4" - 8-3/4" centers 12" L-type swing spout Pressure compensating Softflo aerator 2.2 GPM Model Specified Vandal Proof 2-3/8" lever handle

 3/8" offset inlet supply arm ECAST® design provides durable cast brass construction with total lead content equal to or less than 0.25% by weighted • Complies with the requirements of the Buy American Act of 1933 CFNow! Item Ships in 3 Days Performance Specification

> Rated Operating Pressure: 20-125 PSI Rated Operating Temperature: 40-140°F

 5-Year Limited Cartridge Warranty Lifetime Limited Faucet Warranty 1-Year Limited Finish Warranty

Codes & Standards ADA ANSI/ICC A117.1

© 2023 Page 1

SB230-24RL-J\_spec.pdf

 ASME A112.18.1/CSA B125.1 NOTE: This fitting is not intended to be sold in California after January 1, 2016 NSF/ANSI 372 Low Lead Content

ast Revision: 06/05/2023 • Product specifications subject to change without notice

ECAST products are intended for installation where state laws and local codes mandate lead content levels or in any location where lead content is a concern.

2100 South Clearwater Drive P: 847/803-5000 F: 847/803-5454 Technical: 800/TEC-TRUE www.chicagofaucets.com

[ ] Submitted with Variations

# PLUMBING SCHEDULE

STAINLESS SINK. DOUBLE BOWL WITH DRAINBOARDS. JUST SINK MODEL SB230-24RL-J WITH CHICAGO FAUCET MODEL 540LDL12ABCP & DI WATER MODEL 839 ACP DRILL HOLE AT BACKSPLASH FOR DI FAUCET. PROVIDE NEW SUPPLY TUBES AND DRAIN ASSEMBLY.

CUP SINK. SINK IS INTEGRAL TO COUNTERTOP SEE ARCH. CHICAGO FAUCET MODEL LWS1-B21-A PROVIDE DRAIN ASSEMBLY. ANGLE STOP AND SUPPLY TUBE FOR COLD WATER SUPPLY

NEEDLE VALVE. CHICAGO FAUCET MODEL 937CHAGVCP. TYPICAL OF 15. PROVIDE BUTTON LABELED FOR RESPECTIVE GAS SERVICE. FIVE - COMPRESSED AIR 216-778-COMPAIRJKNF FIVE - CARBON DIOXIDE 216-778-CARBONJKNF FIVE - OXYGEN 216-778-OXYGENJKNF

Item Number

Model Specified

] Submitted as Shown

## L Series Lab Fittings **LWS1-B21-A**

## **Product Type**

Deck-mounted single-inlet water faucet, right-hand control

## **Features & Specifications**

Single-hole

• 5-1/4" rigid/swing gooseneck spout Pressure compensating Softflo aerator with adapter 2.2 GPM Vandal Proof 2-1/2" cross handle with button indexed 'CW'

### • Ceramic 1/4-turn operating cartridge, left-hand **Performance Specification**

5-Year Limited Cartridge Warranty

Warranty

 Lifetime Limited Faucet Warranty 1-Year Limited Finish Warranty 5-Year Limited Mechanical Warranty

Codes & Standards ASME A112.18.1/CSA B125.1

NSF/ANSI 372 Low Lead Content

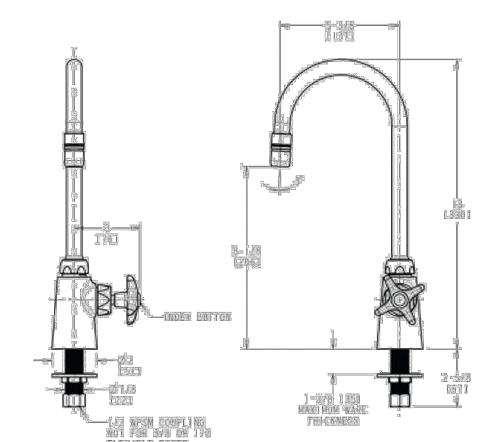


[ ] Submitted with Variations

## **LWS1-B21-A**

**Architect/Engineer Specification** 

Chicago Faucets No. LWS1-B21-A Deck-mounted single-inlet water faucet, right-hand control, polished chrome finish. Single-hole mount. 5-1/4" rigid/swing gooseneck spout. Pressure compensating Softflo aerator with adapter, 2.2 GPM. Ceramic quarter-turn operating cartridge, left-hand turn. 2-1/2" cross handle with button indexed 'CW'.



## **Operation and Maintenance**

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at www.chicagofaucets.com.

Chicago Faucets, member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sport facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option 1 for installation or other technical assistance.



2100 South Clearwater Drive

www.chicagofaucets.cor

Des Plaines, II P: 847/803-5000

F: 847/803-5454

2100 South Clearwater Drive Des Plaines, IL P: 847/803-5000 F: 847/803-5454 Technical: 800/TEC-TRUE www.chicagofaucets.com

**CHICAGO** 

**FAUCETS** 

## 900 Series Lab Fittings 839-CP

Last Revision: 04/29/2023 • Product specifications subject to change without notice

Last Revision: 04/29/2023 • Product specifications subject to change without notice

**Product Type** 

Wall-mounted Tygon-lined laboratory pure water fitting

**Features & Specifications** 

 Complies with the requirements of the Buy American Act of 1933. **Performance Specification** 

 Rated Operating Temperature: 90° Warranty

**Codes & Standards** 

## **CHICAGO FAUCETS**



[ ] Submitted as Shown [ ] Submitted with Variations



AND PRODUCT INFORMATION

**PLUMBING NOTES** 

**DIVISION OF THE STATE ARCHITECT** 

7075 CAMPUS RD

MOORPARK, CA 93021

TEL: (805) 378 - 1400

**ALTERATION TO HSC FOR** 

amador whittle architects, i

28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-433-

Mechanical Engineers

Ren. 6/30/2024

AE Group

**BIO-MANUFACTURING** 

**PROGRAM** 

7075 CAMPUS ROAD

COMMISSIONED ARCHITECT

**838 East Front Street** 

hugh@aegroupme.com

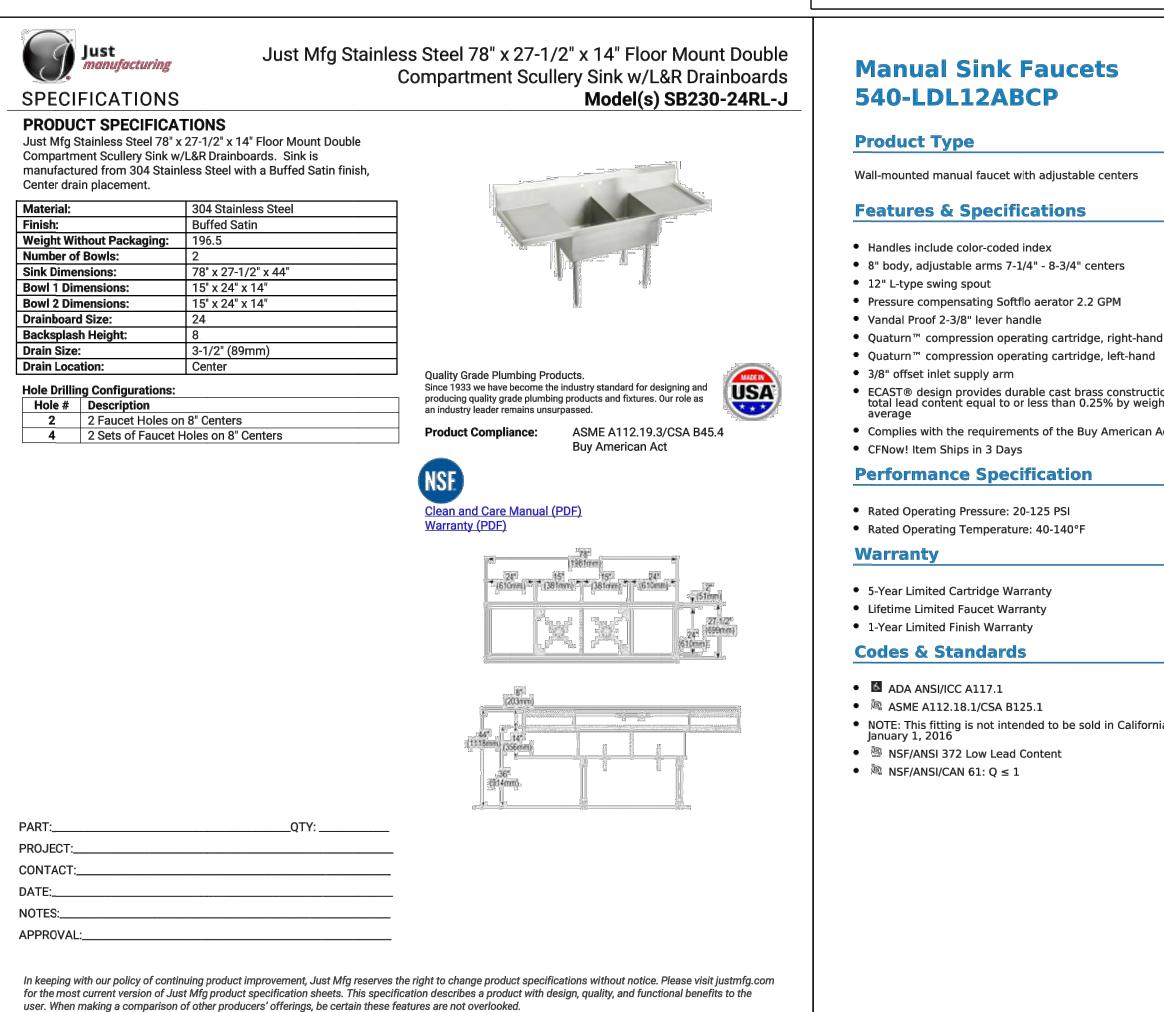
(805) 653-1722

STAMPS/SEALS

Ventura, California 93001-2925

MOORPARK, CA 91320

PROJECT TITLE AND SCHOOL LOCATION



1-800-678-5150 | <u>custserv@justmfg.com</u>

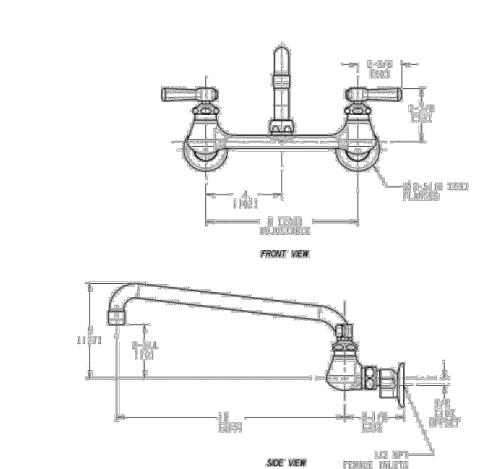
Patent <u>zurn.com/patents</u>

Just Mfg REV 07282023

SB230-24RL-J

# Last Revision: 04/29/2023 • Product specifications subject to change without notice **CHICAGO** 540-LDL12ABCP **Architect/Engineer Specification**

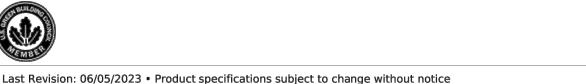
Chicago Faucets No. 540-LDL12ABCP, Sink Faucet for hot and cold water, wall-mounted with adjustable arms for 7-1/4" - 8-3/4" centers. Chrome plated. L-Type swing spout, 12" center-to-center. 2.2 GPM (8.3 L/min) pressure compensating Softflo aerator. 2-3/8" metal, vandal-proof, lever handles with sixteen-point, tapered broach and secured blue and red index buttons. Quaturn™ rebuildable compression cartridge, opens and closes 90°, closes with water pressure, features square, tapered stem. 3/8" offset inlet supply arm with 1/2" NPT female thread inlet. 2-5/16" diameter slip flange. ECAST® construction with less than 0.25% lead content by weighted average. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, Certified to NSF/ANSI 61, Section 9, California Health and Safety Code 116875 (AB1953-2006), Vermont Bill S.152, and NSF/ANSI 372 Low



## Operation and Maintenance

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at www.chicagofaucets.com.

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2100 South Clearwater Drive Des Plaines, II P: 847/803-5000 F: 847/803-545 Technical: 800/TEC-TRUE

www.chicagofaucets.cor

• Rated Operating Pressure: 80 PSI

 5-Year Limited Faucet Warranty Lifetime Limited Faucet Warranty 1-Year Limited Finish Warranty 5-Year Limited Mechanical Warranty



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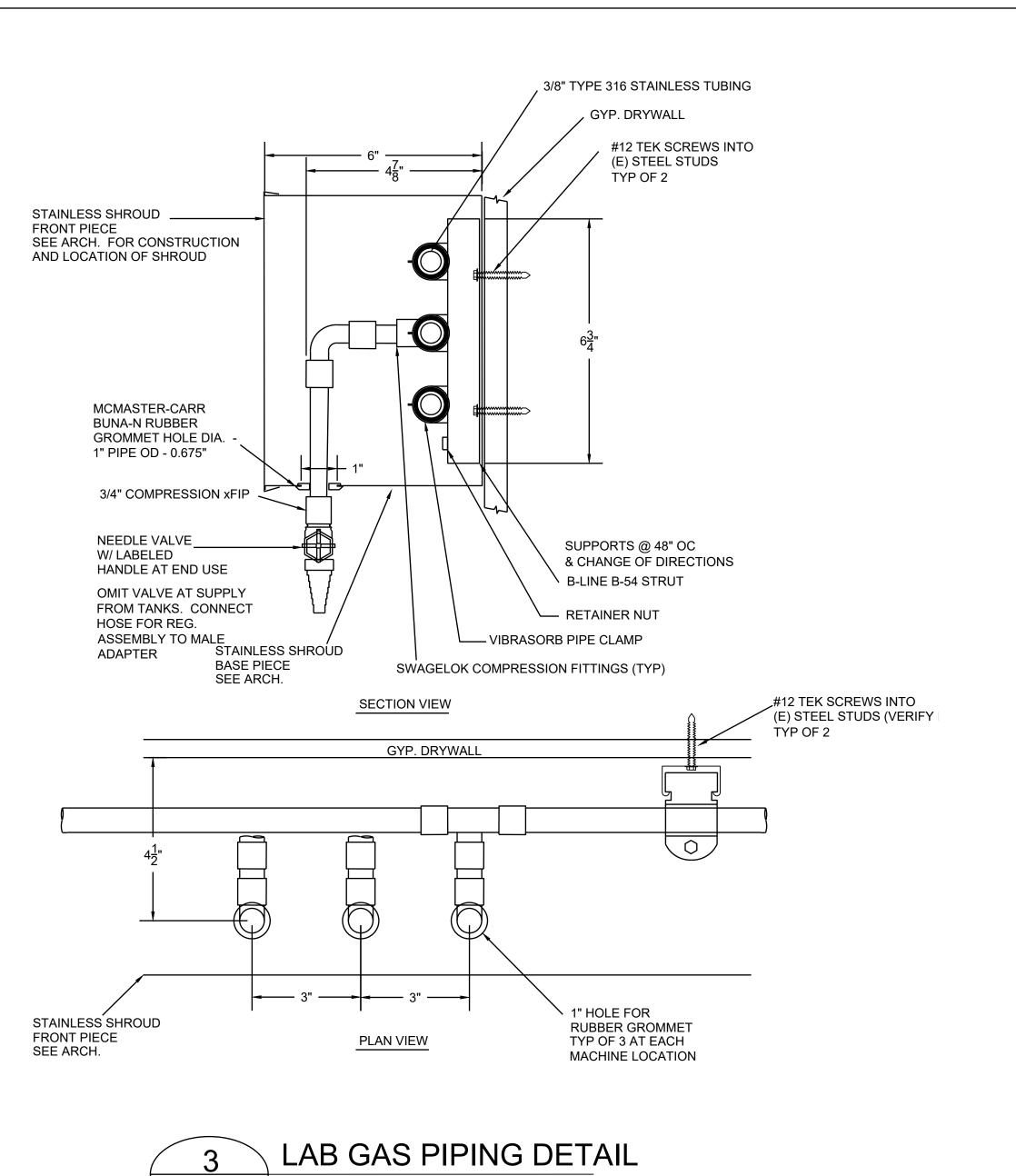
Technical: 800/TEC-TRUE

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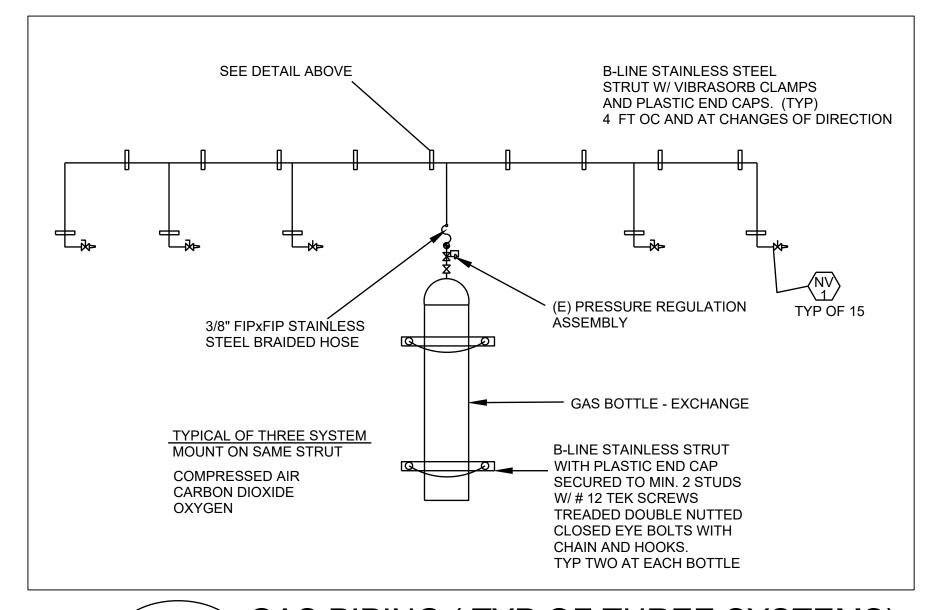
Des Plaines, IL P: 847/803-5000

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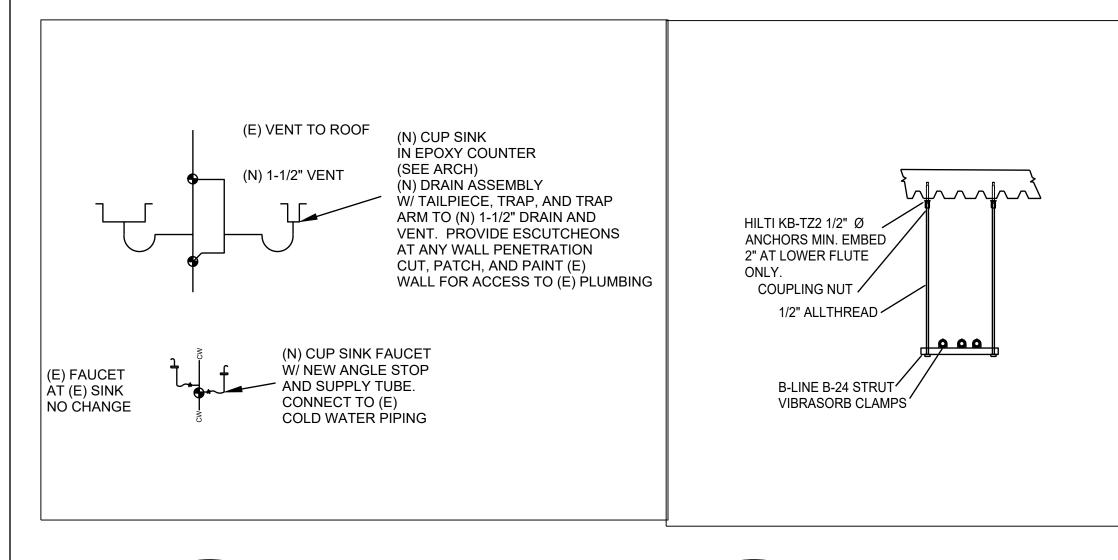
ROJECT NO.: 23-MPC-045 HECKED: HM/PW SHEET NUMBER





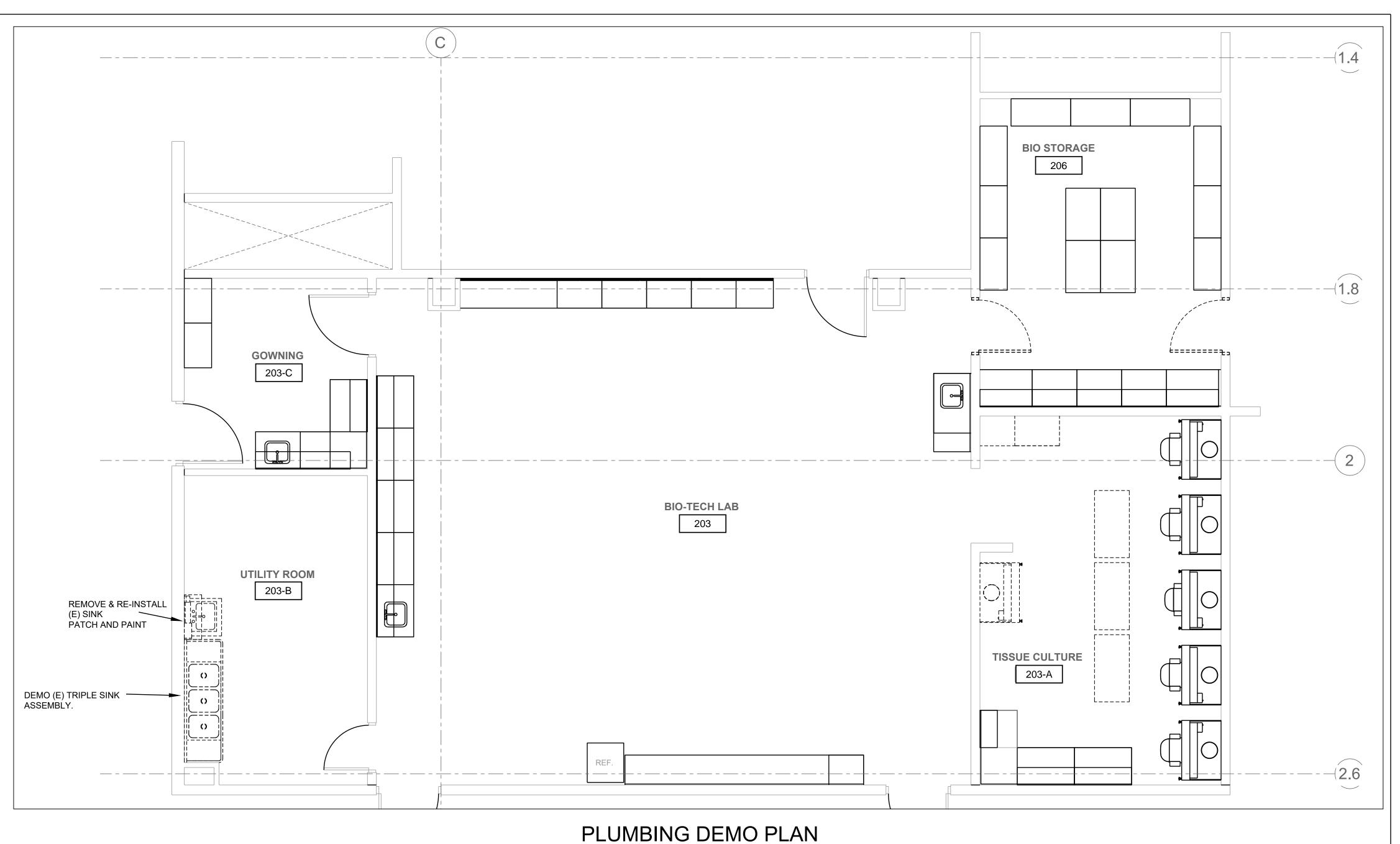


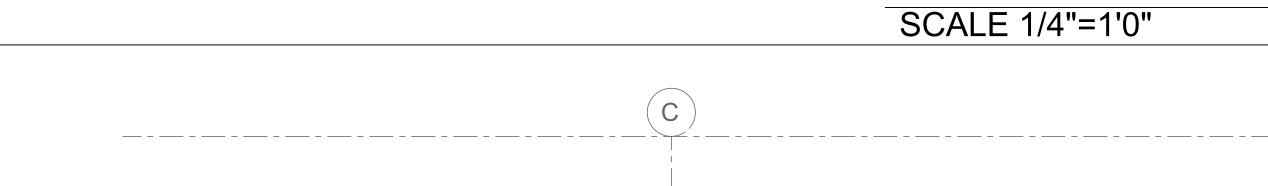
GAS PIPING (TYP OF THREE SYSTEMS) P2 SCALE 1/4"=1'0"

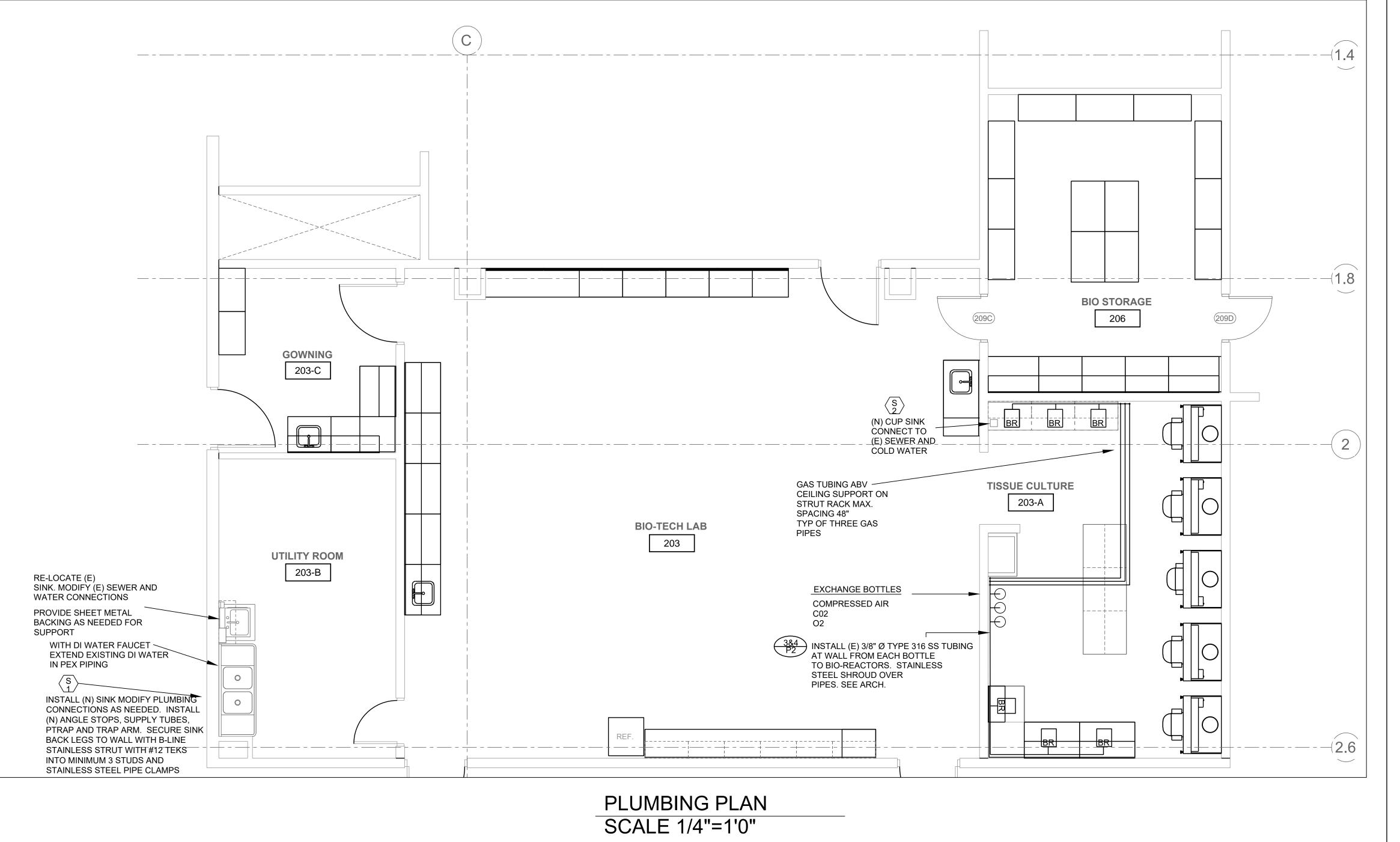


S-2 SINK PIPING NO SCALE



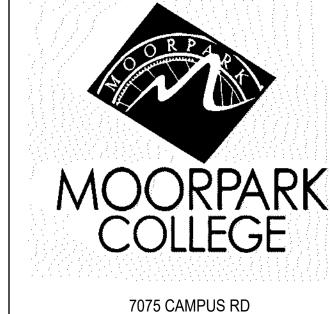








DIVISION OF THE STATE ARCHITECT



PROJECT TITLE AND SCHOOL LOCATION

ALTERATION TO HSC FOR **BIO-MANUFACTURING** PROGRAM

MOORPARK, CA 93021

TEL: (805) 378 - 1400

7075 CAMPUS ROAD MOORPARK, CA 91320

COMMISSIONED ARCHITECT

**AMADOR** 

amador whittle architects, inc 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

**AE** Group Mechanical Engineers

838 East Front Street Ventura, California 93001-2925 (805) 653-1722 hugh@aegroupme.com

STAMPS/SEALS





PLUMBING DEMO, FLOOR PLANS & **DETAILS** 

PROJECT NO.: 23-MPC-045 HECKED: HM/PW DRAWN: HM SHEET NUMBER:

P2

9/30/23 \_\_\_\_ OF \_\_\_\_

SCOPE THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT. ALL ITEMS NOTED ON THE PLAN WHICH ARE NOT EXPLICITLY STATED AS EXISTING SHALL BE NEW. OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION. PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2022 C.E.C., CALIFORNIA ADMINISTRATIVE CODE TITLE 8 AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST. COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALI ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED. SCALING OFF OF DRAWINGS SHALL BE DONE AT CONTRACTORS RISK. DO NOT SCALE DEVICES, LIGHTING FIXTURES OR ANY EQUIPMENT FROM PLANS. LIGHTING FIXTURE QUANTITIES AND LENGTHS SHALL BE CONTRACTORS RESPONSIBILITY. FIXTURES ARE SHOWN FOR CIRCUITING ONLY. CONTRACTOR TO VERIFY SIZES & QUANTITIES PRIOR TO BID. UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION. PROVIDE RECORD DRAWINGS IN ACAD TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF AL CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR. SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.I LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL. SUBMIT THREE HARD COPY SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEPTACLES, ETC. CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS. ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED U.L., NRTL OR LISTED AND APPROVED BY AN APPROVED TESTING LABORATORY. ALL CONNECTIONS SHALL BE COMPRESSION & NOT SCREW TYPE. SERIES TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE.

CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLE ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR AC90 SHALL BE PERMITTED. FLEXIBLE STEEL CONDUIT RUNS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 6 FOOT

PROVIDE 20AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE AREAS DEVICES SHALL BE DECORA

IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PUL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER. IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS. THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS. IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT LABELING.

DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS) PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH 90°C THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED. CONDUCTOR SIZE NO.1 AWG AND SMALLER WITH 90 DEGREE C INSULATION ARE TO USE THE 60 DEGREE COLUMN OF THE CODE, TABLE 310-16, TO DETERMINE AMPACITY. CONDUCTORS #1/0 AWG AND LARGER WITH 75 DEGREE AND 90 DEGREE INSULATION ARE TO USE THE 75 DEGREE COLUMN OF CODE, TABLE 310-16, TO DETERMINE AMPACITY. (110.14C) WHERE THE NUMBER OF CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(3)(a).

PROVIDE LIGHTING FIXTURES WITH ELECTRONIC DRIVERS PER SCHEDULE. NO SUBSTITUTIONS OF FIXTURES SHALL BE PROVIDED WITHOUT THE APPROVAL OF THE ENGINEER -OF-RECORD.

EACH SECTION OF FLOOR MOUNTED SWITCHBOARD, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (6) 3/4"-10 GRADE 2 BOLTS AND CONICAL WASHERS TORQUED TO 70LB-FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.

ELECTRICIANS" PERFORMING WORK ON THIS PROJECT SHALL BE CURRENTLY CERTIFIED IN ACCORDANCE WITH THE STATE OF CALIFORNIA AB931 AND THE DIVISION OF APPRENTISHIP STANDARDS SECTION 3099.

NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH

FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

ALL DEVICES, CIRCUITS CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE

SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT

LABELED AS 'SPARE'. COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE.

DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS ON SITE AND IN WALL, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.

REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOOR, AND PATCH SURFACES.

DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVE. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER

LO. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK

MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS

12. BEGINNING OF DEMOLITION MEANS CONTRACTOR ACCEPTS EXISTING CONDITIONS.

CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS, WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

EOUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

GENERAL NOTES 3. ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.

1. EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE.

. ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE

INSTALLATION
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 FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND

PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM

DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH

FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR.

DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN..

SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP.

ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO ENGINEER FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.

ALL RECEPTACLES SHALL BE MOUNTED AT 18" PER ADA REQUIREMENTS UNLESS NOTED OTHERWISE, MEASURED FROM BOTTOM OF

10. CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L

11. ALL SWITCHES SHALL BE MOUNTED 36" TO 48" MEASURED FROM BOTTOM & TOP OF BOX RESPECTIVELY U.O.N.

LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION.

12. PANEL CIRCUIT DIRECTORY SHALL COMPLY WITH CEC 408.4.

ADDITIONAL NOTES

MARKING - UNDERGROUND SYSTEM SHALL BE LEGIBLY MARKED "UNDERGROUND SYSTEM" AT THE SOURCE OR FIRST DISCONNECTING MEANS OF THE SYSTEM. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS.

FOR FIRE RATED WALL/CEILING PENETRATION AND/OR MEMBRANE PENETRATION, COMPLETE NRTL CLASSIFICATION SHEETS SHALL BE PROVIDED TO THE INSPECTOR AT THE TIME OF INSPECTION FOR THE LISTED RATED ASSEMBLY.

ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS/SWITCHBOARDS SHALL MATCH THE MAKE, MODEL AND INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES.

RACEWAY SEALS. CONDUITS OR RACEWAYS THROUGH WHICH MOISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT

MULTIPLE RACEWAYS CONTAINING MORE THAN 3 CURRENT CARRYING CONDUCTORS SHALL COMPLY WITH [2016 CEC, 310.15(B)(2)(A)] THE IDENTIFICATION OF EVERY CIRCUIT OF A PANEL BOARD AND SWITCHBOARD SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE AND SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED

A SINGLE RECEPTACLE INSTALLED ON AN INDIVIDUAL BRANCH CIRCUIT SHALL HAVE AN AMPERE RATING OF NOT LESS THAN THAT OF THE BRANCH CIRCUIT. INDICATE THE RECEPTACLE RATING. (210.21(B)(1))

PROVIDE RECEPTACLE OUTLETS WHEREVER CORD CONNECTED EQUIPMENT WILL BE USED. (210.50(B))

FROM ALL OTHERS. 2016 C.E.C 408.4 - PROVIDE MORE DETAIL ON PANEL SCHEDULE CIRCUIT DESCRIPTIONS.

WHERE THE DISCONNECTS ARE NOT PROVIDED WITHIN SIGHT FROM THE EQUIPMENT IT SUPPLIES, THE SWITCH OR CIRCUIT BREAKER MUST INCLUDE PROVISIONS FOR ADDING A LOCK, AND THESE PROVISIONS MUST REMAIN WITH THE EQUIPMENT. THESE LOCKING PROVISIONS HAVE TO BE PART OF THE EQUIPMENT, EITHER INHERENT TO THE EQUIPMENT DESIGN OR AS A ACCESSORY FEATURE THAT CAN BE INSTALLED ON THE EQUIPMENT. [410.141(B), 422.31(B), 424.19, 440.14 EXCEPTION NO. 1, 600.6(A)(2)(3), 620.51(A) EXCEPTION

STANDARD NON-LOCKING STRAIGHT-BLADE RECEPTACLES IN 120- AND 250-VOLT CONFIGURATION AT WET/DAMP LOCATION ARE REQUIRED TO BE LISTED WEATHER-RESISTANT TYPE. [CEC 406.8(A)].

FIRE ALARM SYSTEM (EXISTING TO REMAIN)

SYMBOLS LIST OF DRAWINGS SHEET # | SHEET DESCRIPTION SHEET # | SHEET DESCRIPTION DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF TO BOTTOM OF DEVICE, NEMA 5-20R U.O.N. E100 GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWING LIST DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, WALL MOUNTED @ +18"AFF AT BOTTOM OF DEVICE E130 | LIGHTING PLAN DEMOLITION SPECIAL OUTLET, TYPE AS REQUIRED BY EQUIPMENT. E140 POWER PLAN DEMOLITION JUNCTION BOX (CEILING MTD.) SIZE PER TABLE AND NEC ARTICLE 314 E200 EXISTING ELECTRICAL SINGLE LINE DIAGRAM JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 314 E201 EXISTING ELECTRICAL PANEL SCHEDULE THERMOSTAT - 36" TO 48" AFF, BOTTOM & TOP OF BOX RESPECTIVELY E300 LIGHTING PLAN E301 UNDER CABINET LIGHTING FOR INTERIOR ELEVATIONS E400 POWER PLAN BRANCH CIRCUIT PANELBOARD - 120/208VAC, 3Ø, 4W. BRANCH CIRCUIT PANELBOARD - 480/277V, 3Ø, 4W 4'X8'X3/4" TELEPHONE BACKBOARD, MARINE PLYWOOD AND PAINTED WITH FIRE RESISTANT PAINT, PER OWNERS

SCOPE OF WORK

PROVIDE NEW POWER & LIGHTING FOR REUSED BIO PROGRAM EQUIPMENT. ROOM WALLS TO REMAIN & AREAS OF SAME TYPE TO REMAIN.

LIST OF APPLICABLE CODES

<u> IST OF APPLICABLE CODES</u>

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR

2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR

CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

**ABBREVIATIONS** 

AMP FRAME/AMP FUSE AVAILABLE FAULT CURRENT ABOVE FINISHED FLOOR AMP INTERRUPTING CURRENT MDF AMP SWITCH MTD MOUNTED ASTM AMERICAN SOCIETY OF AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAGE

AMP TRIP BACKBOARD CONDUIT OR CEILING CIRCUIT BREAKER CONTINUATION

CIRCUIT

CONDUIT ONLY

CABLE TELEVISION

COLD WATER PIPE

DISCONNECT SWITCH

ENGINEER OF RECORD

SHALLOW FLOOR BOX

GENERAL CONTRACTOR

ISOLATED GROUND

KILO VOLT AMPS=1000VA

LIGHTING CONTACTOR

JUNCTION BOX

ELECTRICAL CONTRACTOR

**EMERGENCY LIGHT/FEEDER** 

ELECTRICAL METAL TUBING

ETHYLENE PROPYLENE RUBBER

ELECTRIC VEHICLE CHARGING

GROUND FAULT INTERRUPTER

DISCONNECT

DRAWING

FRONT

CFILING

100A UTILITY METER (OR AS NOTED) FUSED DISCONNECT SWITCH 100AMP SWITCH RATING WITH 60 AMP FUSES, 3 POLE

DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSE, 3 POLE W/ OVERCURRENT PROTECTION U.O.N.

3-WAY SWITCH, a & b INDICATES LIGHT FIXTURE TO BE SWITCHED (EACH A 3-WAY) MOUNTED @ 42" AFF

1" CONDUIT MINIMUM IF UNDERGROUND (CONTRACTOR TO PROVIDE

DEDICATED NEUTRALS FOR CIRCUITS WHICH DO NOT HAVE COMMON

CIRCUIT HANDLE TIES ON BREAKERS FEEDING THE CIRCUITS)

MOLDED CASE CIRCUIT BREAKER 200 AMP FRAME, 150 AMP TRIP RATING, 3 POLE CCTV-VERIFY MOUNTING LOCATION AND REQUIREMENTS WITH CLIENT/OWNER.

CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS,

LIGHTING CONTROL 0-10V (PURPLE GRAY)

POWER CONDUIT & CONDUCTORS

EMERGENCY CIRCUIT

(3/4" CONDUIT MINIMUM).

3/4"C-2#12 & 1#12 GND

3/4"C-3#12 & 1#12 GND

3/4"C-4#12 & 1#12 GND

3/4"C-5#12 & 1#12 GND

3/4"C-2#10 & 1#10 GND

3/4"C-3#10 & 1#10 GND

3/4"C-4#10 & 1#10 GND

3/4"C-5#10 & 1#10 GND

SEE KEY NOTE #1 AS INDICATED ON DRAWING

SWITCH WITH PILOT LIGHT @ 42"AFF

SWITCH MOUNTED @ +42" AFF

MOTOR RATED SWITCH

— WALL SWITCHES

CKT 7 WITH DEDICATED NEUTRAL.

CONDUITS.)

**—** 0-10 **—** 

— C5 —

— Е —

\$м

CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND

HASH MARKS INDICATE QUANTITY OF #12 CONDUCTORS. NO HASH

WHERE NO NUMBER IS INDICATED, THE CONDUCTORS ARE

MARKS INDICATE (2)#12AWG. (PROVIDE GROUND CONDUCTOR IN ALL

#12AWG(MIN.) CONDUIT SIZE IS AS REQUIRED BY ELECTRICAL CODE.

INDICATES A HOMERUN TO PNL 2LA, CKTS 1-3-5 WITH SHARED NEUTRAL &

LOW VOLTAGE CABLE & CONDUIT 3/4"C-1#CAT5 U.O.N. (PER nLIGHT REQUIREMENTS)

FLEXIBLE CONDUIT (WITH GROUND CONDUCTOR, PROVIDE LIQUID TIGHT CONDUIT IN ALL

COLOR CODE FOR CONDUCTORS

120/208VAC,3Ø,4W: BLUE,BLACK,RED FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND. 277/480VAC,3Ø,4W: ORANGE,BROWN,YELLOW FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR

DERATING TABLE

NEC #310-8 ADJUSTMENT FACTORS

(a) MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE. WHERE THE NUMBER OF CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITIES SHALL BE REDUCED AS SHOWN IN THE

> PERCENT OF VALUES IN TABLES AS ADJUSTED NUMBER OF CURRENT-CARRYING CONDUCTORS 7 THROUGH 9 10 THROUGH 20 21 THROUGH 30 31 THROUGH 40

EXCEPTION NO. 1: WHERE CONDUCTORS OF DIFFERENT SYSTEMS, AS PROVIDED IN SECTION 300-3, ARE INSTALLED IN A COMMON RACEWAY OR CABLE, THE DERATING FACTORS SHOWN ABOVE SHALL APPLY TO THE NUMBER OF POWER AND LIGHTING (ARTICLES 210, 215

EXCEPTION NO. 3: DERATING FACTORS SHALL NOT APPLY TO CONDUCTORS IN NIPPLES HAVING A LENGTH NOT EXCEEDING 24 INCHES

EXCEPTION NO. 4: DERATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS ENTERING OR LEAVING AN OUTDOOR TRENCH IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID

NONMETALLIC CONDUIT HAVING A LENGTH NOT EXCEEDING 10 FEET (3.05m) ABOVE GRADE AND THE NUMBER OF CONDUCTORS DOES NOT EXCEPTION NO. 5: FOR OTHER LOADING CONDITIONS, ADJUSTMENT FACTORS AND AMPACITIES SHALL BE PERMITTED TO BE CALCULATED

GROUND **HORSEPOWER IDENTIFICATION** INTERMEDIATE DISTRIBUTION

FOR AMBIENT TEMPERATURE IF NECESSARY

WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN 24 INCHES (610 mm) WITHOUT MAINTAINING SPACING AND ARE NOT INSTALLED IN RACEWAYS, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN THE ABOVE TABLE.

EXCEPTION NO. 2: FOR CONDUCTORS INSTALLED IN CABLE TRAYS, THE PROVISIONS OF SECTION 318-11 SHALL APPLY.

(610mm).

(FNC): SEE APPENDIX B, TABLE B-310-11 FOR ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A

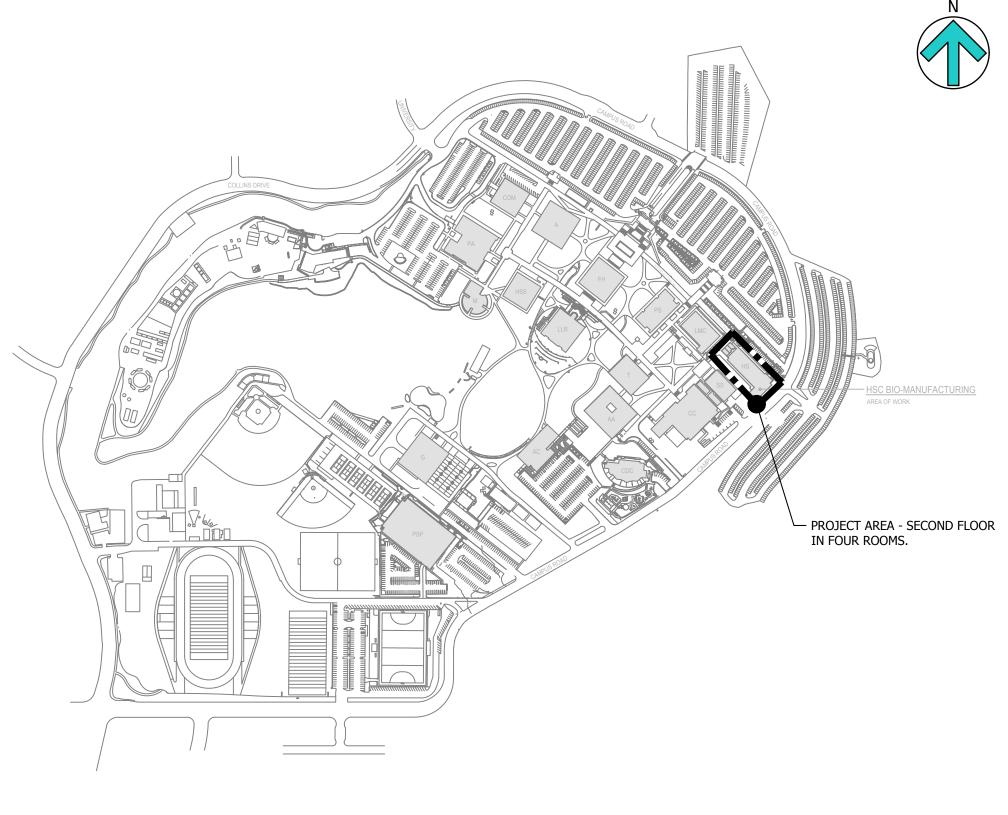
(b) MORE THAN ONE CONDUIT, TUBE, OR RACEWAY. SPACING BETWEEN CONDUITS, TUBING, OR RACEWAYS SHALL BE MAINTAINED.

MOUNTING HEIGHT OVER OBSTRUCTION

LONG CONTINUOUS LOAD LOW VOLTAGE METAL CLAD MAIN DISTRIBUTION FRAME MTB MAIN TELEPHONE BACKBOARD 2'0" MAX MEDIUM VOLTAGE 2'-6" CLR MANUFACTURER NATIONAL ELECTRICAL CODE NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN NORMALLY CLOSED POWER OR POLE PROVIDED BY OTHERS PHOTO VOLTAIC RIGID GALVANIZED STEEL SYSTEM NEUTRAL SURGE PROTECTION DEVICE TIME CLOCKS TELEPHONE TERMINAL BOARD TELEPHONE TERMINAL CABINET TRANSFORMER TOP OF THERMOSTAT TRANSIENT VOLTAGE SURGE SWITCH, OUTLET, CONTROL SUPPRESSOR UNDERGROUND TOP OF THERMOSTAT,

SWITCH, OUTLET, CONTROL

SITE/AREA MAP



DIVISION OF THE STATE ARCHITECT

7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ALTERATION TO HSC FOR **BIO-MANUFACTURING PROGRAM** 

7075 CAMPUS ROAD MOORPARK, CA 9302<sup>2</sup>

COMMISSIONED ARCHITECT

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SHEET TITLE:

GENERAL NOTES ABBREVIATIONS, **SYMBOLS & DRAWING** 

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2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR

METER

MOUNTING

MAN HOLF

OVFRHFAD

REMOVED

CONDUIT

TYPICAL

UNSW UNSWITCHED

WITH

**EXISTING** 

VOLTS/VOLTAGE

VOLTAGE DROP

WEATHERPROOF

VOLT AMPS

UNDERWRITERS LABORATORY

UNLESS OTHERWISE NOTED

WATTS/WATTAGE OR WIRE

ROOM

NEW

2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING

STAMPS/SEALS

TRUE NORTH

LIGHTING PLAN DEMOLITION

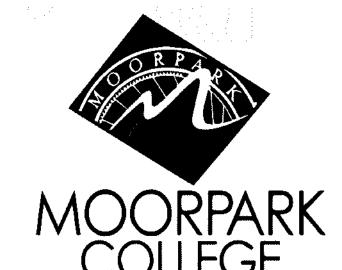
SCALE: 1/4"=1'-0"

- REPLACE FIXTURES PER E300

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

- WATTSTOPPER DT-30 WITH BZ100 POWER SUPPLY.
- 2 WATTSTOPPER PW 100 WALL SWITCH.
- WATTSTOPPPER PW200 OCCUPANCY SENSOR WALL SWITCH.
- 4 HP-2.
- 5 HP-4.
- 6 HP-6.
- 7 HP-8. 8 NOT USED.
- 9 EM-1.
- 10 EM-3 VIA EM CONTACTOR.
- EM-5 VIA EM CONTACTOR.
- 12 HP-10 WITH EM LIGHTING TRANSFER VIA RELAY.
- HP-31 WITH EM LIGHTING TRANSFER VIA RELAY..
- HP-33 WITH EM LIGHTING TRANSFER VIA RELAY.
- CONNECT TO CORRIDOR LIGHTING ONE LEVEL BELOW.
- 16 NOT USED.
- PROVIDE DP1-40 POWER (DP1-30) CONNECTION PER MANUFACTURER AND CONTROL STATION AT\$SC
- PROVIDE DP1-40 POWER (DP1-32) CONNECTION PER MANUFACTURER AND CONTROL STATION AT \$5C
- PROVIDE DP1-40 POWER (DP1-34) CONNECTION PER MANUFACTURER AND CONTROL STATION AT \$SC
- 20 NOT USED.
- 21 LIGHTING OVERRIDE SWITCH FOR LOCAL SKYLITE FIXTURES, LABEL SWITCH.
- (22 HP-32.
- 23 HP-34. 24 HP-36.
- 25 HP-38.
- 26 HP-40.
- 28 MOTORIZED SHADES CIRCUITS AS NOTED.
- 29 CONTROL LOCATION FOR MOTORIZED SHADES PER MANUFACTURER.
- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL
- ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED, 1" CONDUIT MINIMUM
- UNDERGROUND. 31 ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES,
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM
- VERIFY AND PROVIDE JUNCTION BOXES, CONDUIT, DISCONNECT SWITCH, AND WIRING ASSOCIATED WITH SIGNAGE/GRAPHICS ON GRAPHICS/SIGNAGE DRAWINGS.
- ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY DIMMER RACK, POWER LINK PANELBOARD, PHOTOCELL, TIMECLOCK, OR LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.
- 40 ALL LIGHTING FEEDERS (FROM LIGHT FIXTURES TO DIMMER RACKS) SHALL BE STRANDED #10 AWG THHN MINIMUM WITH DEDICATED NEUTRALS FOR EACH CIRCUIT, NO SHARED NEUTRALS ARE PERMISSIBLE. DERATING OF CONDUCTORS SHALL BE PER NEC 300-5 FOR COMBINED HOMERUNS WHERE EACH NEUTRAL IS A CURRENT CARRYING CONDUCTOR.

KEY NOTES:(EXISTING INSTALLATION NOTES FOR REFERENCE ONLY):



DIVISION OF THE STATE ARCHITECT

7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

## **ALTERATION TO HSC FOR BIO-MANUFACTURING PROGRAM**

7075 CAMPUS ROAD MOORPARK, CA 93021

COMMISSIONED ARCHITECT

CAMARILLO, CA 93012-8094

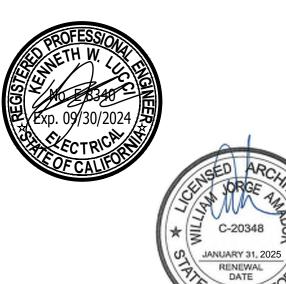
amador whittle architects, inc. 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

LUBBI E HEBUBLITES LUB 3251 CORTE MALPASO, #511

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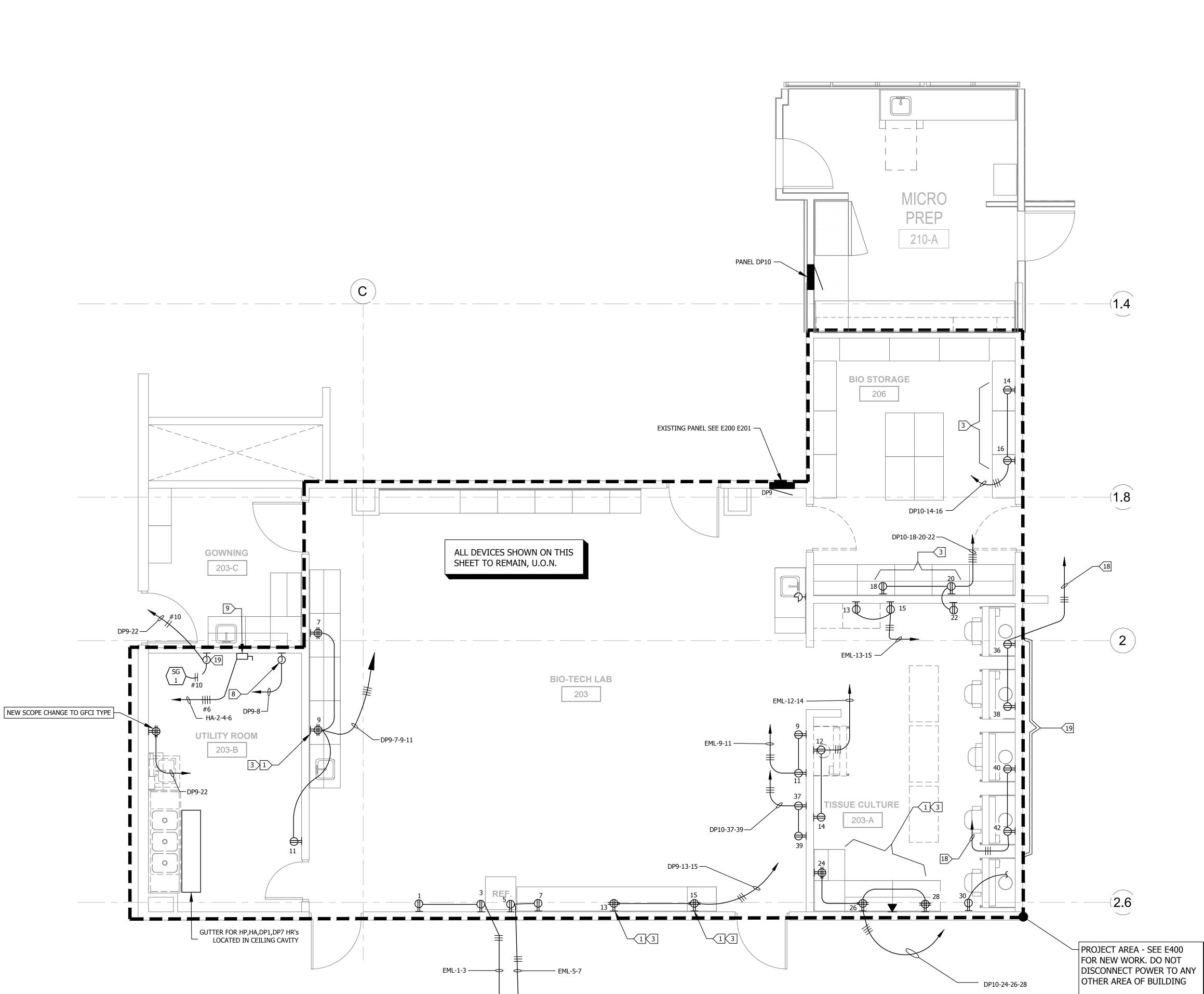
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STAMPS/SEALS



SHEET TITLE:

LIGHTING PLAN DEMOLITION



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

TRUE NORTH POWER PLAN DEMOLITION

**KEY NOTES REFERENCE ONLY:** 

GFCI RECEPTACLE. WP GFCI RECEPTACLE.

(3) +44"AFF.

4 POWER OFF OF ROOF TOP SPLIT UNIT. 5 CONNECT PER MFG REQUIREMENTS.

6 PER E-420.

SMART BOARD BY OWNER; CONTRACTOR INSTALLED.PROVIDE POWER RECEPTACLE ON RIGHT SIDE OF PROJECTOR MOUNT WHEN FACING WALL. PROVIDE FROM 2 GANG MUD RING BEHIND PROJECTOR MOUNT ON LEFT SIDE ABOVE SMART BOARD; (1)1"C-(2) CAT6E CABLES HOMERUN TO IDF VIA CABLE TRAY,(1)1-1/2"C-(2) CAT-6E CABLES AND (1) CRESTRON CABLE TO INSTRUCTORS STATION OR PODIUM.

CABLES AT INSTRUCTORS STATION OR PODIUM; 2 GANG MUD RING ON WALL OR AT PODIUM PER ASK-164 TO 170. (1) 1"C-(2) CAT6E CABLES HOMERUN TO IDF VIA CABLE TRAY.

9 CONNECT TO AUTOCLAVE CONTROL POWER.

60A FUSED DISCONNECT WITH 40A FUSES, VERIFY FUSE SIZE WITH EQUIPMENT NAMEPLATE.

2 SEPARATE FLOOR PEDESTALS (POWER & COM).

4 DATA CABLES-1-1/2"C.

2 DATA CABLES-1"C.

14 HAND DRYER.

CONNECT TO TABLE/CASEWORK.

(16) KEYPAD FOR DOOR ACTUATOR CONNECT PER MANUFACTURER.

DOOR ACTUATOR CONNECT TO DP1-2.

LOCATION OF SMART BOARD COM 2 GANG MUD RING WITH BLANK COVERS AND 1-1/2" TO SMART BOARD PROJECT.

(18) DP12-36-38.

(19) CONNECT TO HOODS TYPICAL.

20 EML-4-6-8.

21 DP12-30.

22 DP12-32-34.

CONNECT TO UNIT WITH LIQUID TIGHT FLEX.

PROVIDE FLOOR CORE & 3/4"PVC COATED RGS FROM FLOOR BELOW TABLE TO MAKE UP BOX IN TABLE. CONNECT #10 GROUND TO TABLE STEEL FOR PROPER GROUND.

PROVIDE 3/4"C-4#10 & 1#10 (STRANDED) GND TO DP3, CIRCUITS AS NOTED.

26 DP3-1,3,5.

27 DP3-7,9,11.

28 DP3-13,15,17. 29 DP3-19,21,23.

30 DP3-225,27,29.

31 DP3-31,33,35.

COMBINE WITH EML-17-19 HOMERUN CONDUIT.

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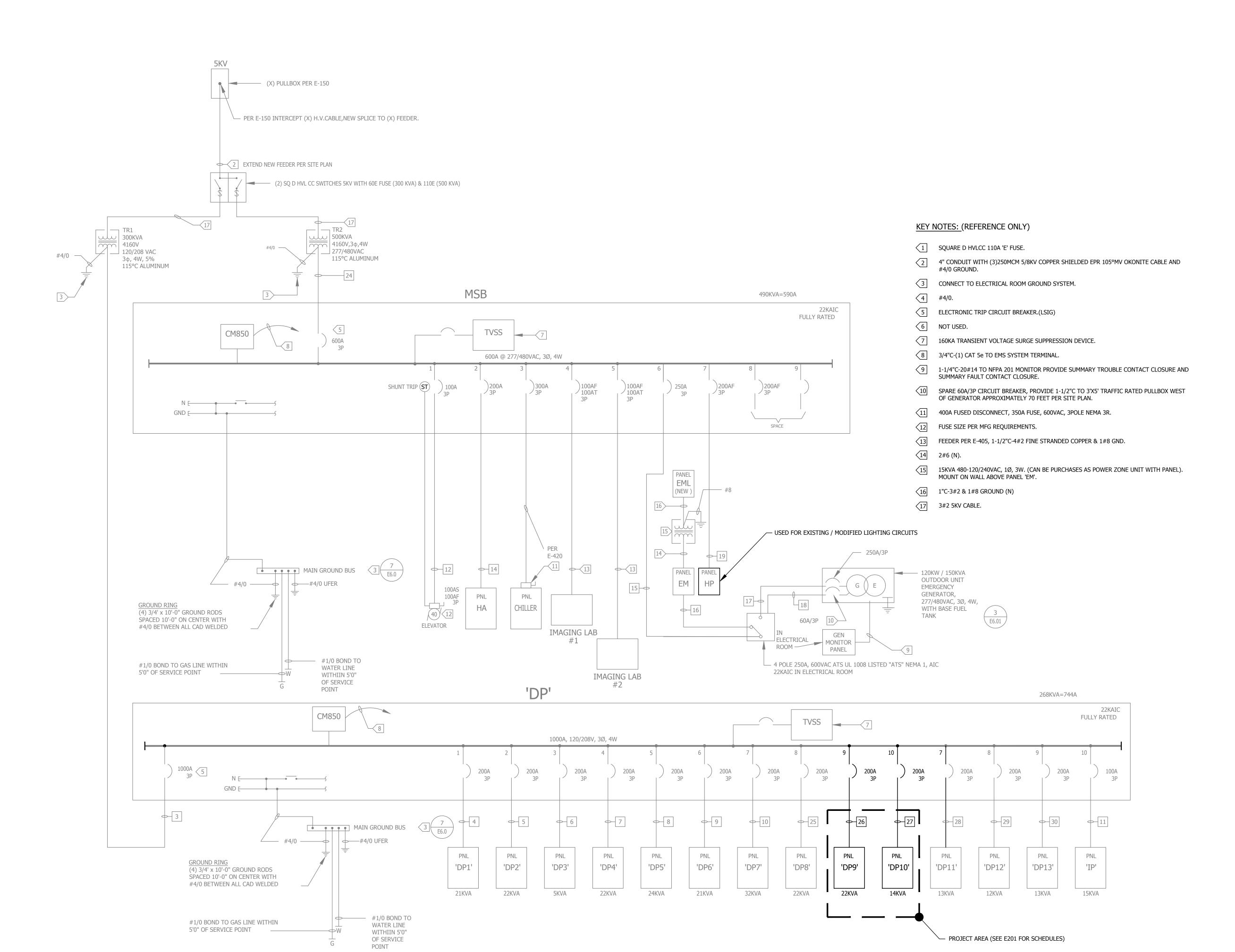
LUGGI & STEUGISTER SINGLE ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094

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SHEET TITLE:

POWER PLAN DEMOLITION

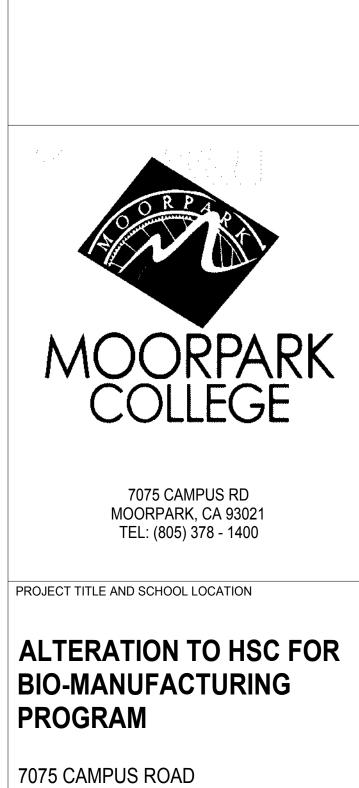


EXISTING ELECTRICAL SINGLE LINE DIAGRAM

	FEEDER SCHEDULE (REFERE	INCE OF	NLY)
TAG	CONDUIT/CONDUCTOR	FROM	ТО
1			
2			
3	(3)4"C - 4#500MCM & 1#300MCM GND	TR1	DP
4	2"C - 4#3/0 & 1#6 GND	DP	DP1
5	2"C - 4#3/0 & 1#6 GND	DP	DP2
6	2"C - 4#3/0 & 1#6 GND	DP	DP3
7	2"C - 4#3/0 & 1#6 GND	DP	DP4
8	2"C - 4#3/0 & 1#6 GND	DP	DP5
9	2"C - 4#3/0 & 1#6 GND	DP	DP6
10	2"C - 4#3/0 & 1#6 GND	DP	DP7
11	1-1/2"C - 4#2 & 1#8 GND & 1#8 ISO GND	DP	DP10
12	1-1/4"C - 4#2 & 1#8 GND	MSB	ELEVATOR
13	2"C - 4#3/0 & 1#6 GND	DP	DP10
14	2"C - 4#3/0 & 1#6 GND	DP	DP11
15	2-1/2"C - 4#250MCM & 1#4 GND	DP	ATS
16	2-1/2"C - 4#250MCM & 1#4 GND	ATS	EM
17	2-1/2"C - 4#250MCM & 1#4 GND	GEN	ATS
18	1-1/2"C - CONDUCTORS PER ATS/GEN MFG (MINIMUM 24#(4))	GEN	ATS
19	2"C - 4#3/0 & 1#6 GND	MSB	HP
20	2-1/2"C - 4#250MCM & 1#4 GND	DP	DP12
21	2-1/2"C - 4#250MCM & 1#4 GND	DP	DP13
22	4"C - 4#500MCM & 1#2 GND	DP	DP14
23	2"C - 4#3/0 & 1#6 GND	DP	ELEV#1
24	(2)3"C-4#350 MCM & 1/0 GND	TR2	MSB
25	2"C - 4#3/0 & 1#6 GND	DP	DP8
26	2"C - 4#3/0 & 1#6 GND	DP	DP9
27	2"C - 4#3/0 & 1#6 GND	DP	DP10
28	2"C - 4#3/0 & 1#6 GND	DP	DP10
29	2"C - 4#3/0 & 1#6 GND	DP	DP11
30	2"C - 4#3/0 & 1#6 GND	DP	DP12

ALL SINGLE LINE INFORMATION IS FOR

REFERENCE ONLY, ONLY PANELS HP, DP9, & DP10 WILL HAVE PANELS & LOADS MODIFIED AT CIRCUITS LEVEL.



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STAMPS/SEALS

(805) 389-6520



SHEET TITLE:

EXISTING ELECTRICAL SINGLE LINE DIAGRAM

Drafter:CM01 Paper Size: 12,9	Drawing:G:\23\745\EL\Sheets\23-745E201.dwg	Sep 28, 2023, 11:15am	Attached XREFS:	XREF:G:\23\745\EL\Xrefs\23-745TB.dwg		

					EXI	STING	i PO	WE	ERL	INK (	G3 P	ANEL								
PANEL N	NUMBER <u>HP</u>				\(	DLTAC	SE 4	180	)/2	277	PH	ASE .	<u>3</u> v	VIRE_	4_	■ NEMA 1	<u>IUM</u>	BL	ISS	
SOURCE	MSB				A.	ı.c. <u>2</u>	200	00								■ MAIN LUGS ONLY				
	DCATION <u>ELECTRICA</u>	RO	ОМ			JS A					INIC	225				SURFACE MOUNTING				
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				2000			5	🕇		6				1	2000	2nd FLOOR MIDDLE LITE				
	EAST CLASS LAB LIGHTS	2400					7	🕇	$\Box$	8			1900			2nd FLOOR EAST LITE				
	WEST CLASS LAB LIGHTS		2400				9	†	•+	10				1000		PATIO LITE 2nd LEVEL				
	NORTH OFFICE LIGHTS			2000			11	🕇		12				1	<u> </u>	SPARE				
	SOUTH OFFICE LIGHTS	1800					13	🕇	++	14			-			SPARE				
	SPARE		<u> </u>				15	+	•+	16				<u> </u>		SPARE				
	SPARE			_			17	+	+	18				1	_	SPARE				
	SPARE	-		1			19	🕇	++	20			-			SPARE				
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	SPARE			_			23	]+	+	24				1	_	SPARE				
	SPARE	_		1			25	+	+	26			_			SPARE				
	SPARE		_				27	1+	++	28						SPARE				
	SPARE			_			29	]+	+	30					_	SPARE				
	SOUTH EXTERIOR LITES	1500					31	<u> </u>	+	32			600			SKYLITE LITE				
	SOUTH EXTERIOR LITES		1500				33	$\rfloor +$	++[	34				600		SKYLITE LITE				
	STAIR LITES			1500			35	]+	+	36					600	SKYLITE LITE				
	EXIT LITES	1500					37	+	+-[	38			600			SKYLITE LITE				
	EXIT LITES		1500				39	]+	++[	40				600		SKYLITE LITE				
	EM LITE COIL			100	<b>*</b>	<b>V</b>	41	]+	+-	42	*	V			600	SKYLITE LITE				
	TOTALS	9400	8400	5600	·								4600	4200	3200	TOTALS				
L.C.L. VOL	T AMPS: 0	PHASE	Α	0				PH	ASE	В	0				PHASE	C 0				
TOTAL VOLT	T AMPS: 35400	PHASE	A 14	1000				PH	ASE	В 1	2600				PHASE	C 8800				
TOTAL	L AMPS: 42.6	PHASE	A 5	50.5				PH	ASE	В	45.5				PHASE	C 31.8				
ALL BREAKE	ERS ARE G3 POWERLINK E	REAKE	RS	1 W	ATTSTC	PPER	ELEC	:V—	100	& -	200									

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	PA	NE	L L	OCATION PER E-40	)			B(	JS A	MPE	RE	RA	TING 2	223				■ FLUSH MO	UNTING		
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		+	+		500	1	500			5		6			500	1	500				$\downarrow$
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		+	+		-	500	500			9		10	<del>                                     </del>			500	500	BIO STORAGE I	NECEPTACEE		+
		+			500	1	300			11		12 14	<del>                                     </del>		500	]	300				+
		+	+		300	500				15		- 16	<del>                                     </del>		300	500	1				+
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					500					25	+	- 26			500			<b>†</b>			T
	Ш			<b>V</b>		500				27	+	- 28				500		TISSUE CULTUR	RE RECEPT.		
				AUTOCLAVE RM 210 CONTROLS			1000			29	++	30				1	500	<b>V</b>			1
_ [		4		RECEPT	360		1			31	+	- 32	<del>                                     </del>		500		1	BIO STORAGE F	RECEPTACLE		1
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		+		CENTRIFUGE CENTRIFUGE	500	500	1			37		- 38	<del>                                     </del>		600	500	1	CONFERENCE R			+
		+	+	ROOF RECEPTACLE		300	720		<b>V</b>	39 4.1	Щ	- 40 - 42	<del>                                     </del>	-		300	500	U U U U U U U U U U U U U U U U U U U	TOOM NEOLI		+
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				101/120			1000											1017120			
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			TOT	AL AMPS: 58	PHASE	٨	50				DLIAC	E B	67				DIIACE	E C 59			

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SOURCE					$\wedge$	I.C. <u>2</u>	200	0							■ NANINI 1110	C ONLY			
		2									225				MAIN LUG	5 UNLT			_
	CATION PER E-40				Bl	JS A	MPt	LKE	RAI	ING		_			■ FLUSH M	OUNTING			
M R L TE	CIRCUIT DESCRIPTION	A	OAD(VA	() C	BR POLE		CKT	PHASE A B C	CKT		RKR POLE	_	OAD(VA	() C	CIRCUIT DE	SCRIPTION	M S S	R C P T	
-   C   1   E	LAB PREP RECEPTACLE	500			1	20	1	A B C		20	1	500			MICRO PREP	RECEPTACLE	C		+
			500				3		4				500						$\dagger$
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		500	1	500			17		18			500	1	500					+
		500	500				19		20			500	500			1		_	+
	SCIENCE LAB RECEPTACLE		300	500			21		22				300	500	TISSUE CULTU	JRF RECEPT		_	+
	SOILINGE LAB INCOLI IAGLE	500		300			25		26			500		300					+
	•		500				27		28				500		TISSUE CULTU	JRE RECEPT.			+
	AUTOCLAVE RM 210 CONTROLS			1000			29		30					500	<b>*</b>	1			$\dagger$
	SPARE	_					31	+	32			500			BIO STORAGE	RECEPTACLE			T
			_				33		34				500		The state of the s	1			
			,	_			35		36					_	SPA				$\perp$
	CENTRIFUGE	500		1			37	+	38			600			MOTORIZED WI				$\perp$
	CENTRIFUGE		500				39	+	40				500		CONFERENCE	ROOM RECEP		_	_
	ROOF RECEPTACLE			720			41	+++	42					500	<u> </u>				$\perp$
	TOTALS	3000	3000	3720								3600	3500	3000	TOTALS				
L.C.L. VOLT	AMPS: 0	PHASE	А	0				PHASE	ΕВ	0				PHASE	E C 0				
TOTAL VOLT	- AMPS: 19820	PHASE	A 6	600				PHASE	ΕВ	6500				PHASE	C 6720				

EXISTING SQ. D PANEL

\_ BUS AMPERE RATING <u>225</u>

 LOAD(VA)
 BRKR
 CKT
 PHASE A B C
 BRKR
 LOAD(VA)

 A
 B
 C
 POLE AMP
 CKT
 PHASE A B C
 CKT
 AMP
 POLE A B C
 BRKR
 LOAD(VA)

 500
 1
 20
 1
 2
 20
 1
 500

 500
 3
 4
 4
 500

\_ A.I.C. <u>22000</u>

 500

 500

 31

 32

 34

 36

 36

 37

 38

 40

 500

 41

PHASE B 0

PHASE B 9460

PHASE B 79

\_ VOLTAGE <u>208/120</u> PHASE <u>3</u> WIRE <u>4</u>

PANEL NUMBER DP9

PANEL LOCATION PER SHEET E401

BIOTECH LAB RECEPT 500

GOWNING RECEPTACLE 500

500

500

500

500

TOTALS 3500 3500 3500

PHASE A 0

PHASE A 7860

PHASE A 66

SOURCE DP

L.C.L. VOLT AMPS: 0

TOTAL VOLT AMPS: 25680

TOTAL AMPS: 71

■ NEMA 1 ■ COPPER BUSS

MAIN LUGS ONLY

■ SURFACE MOUNTING

CIRCUIT DESCRIPTION

CONF RM RECEPTACLE

AUTOCLAVE RM 205A CONTROLS

STEAM GENERATOR HAND DRYER

CLASSROOM RECEPTACLE

4360 | 5960 | 4860 | TOTALS

PHASE C 0

PHASE C 8360

PHASE C 70

NEW LOAD

					EXI	STING	G SQ	. D P.	ANEL	_							
PANEL N	NUMBER EML			\/(	) Ι ΤΔ	GF 2	240/	120	PL	IASE	1 1/	VIRE	3 ■ NEMA 1	■ COPPE	R B	USS	)
							MAIN CIRCUIT BREAKER 80										
	EM			A.	I.C. <sub>-</sub>	10,0	<u> </u>										
PANEL LO	DCATION ROOM 202			BI	JS A	AMPI	ERE	RAT	ING	100	_		  ■ FLUSH MC	UNTING			
MRL		LOAD	)(VA)	BF	RKR				BF	RKR	LOAD	O(VA)			М	R	ĻĮ
M R L T E	CIRCUIT DESCRIPTION	А	В		AMP	CKT	PHASE A B	ECKT		POLE		В	CIRCUIT DESCR	RIPTION	S	RCPT	+ (
	FREEZER - BIO TECH	800		1	20	1	1	- 2	20	1	500		MICRO PREP REC	EPTACLE	Ĭ		
	FREEZER - BIO TECH		800			3	1++	- 4				800	FREEZER LAB REC	CEPTACLE			
	FREEZER - BIO TECH	800				5	1+	- 6			800		FREEZER LAB REC	CEPTACLE			
	FREEZER - BIO TECH		800			7	1++	- 8				800	FREEZER LAB REC	CEPTACLE			
	SHAKER BIO TECH	600				9	1+	- 10			800		PORTABLE CART LAB	RECEPTACLE			
	SHAKER BIO TECH		600			11	1++	12				800	BIO SAFETY RECE	EPTACLE			
	INCUBATER BIO TECH	500				13	1+	14			800		BIO SAFETY RECE	EPTACLE			
	INCUBATER BIO TECH		500			15		16	V			_	SPARE				
	INCUBATER SCIENCE LAB	500				17	+ -	18	20		_		SPARE				
	INCUBATER SCIENCE LAB		500			19	] + - +	- 20		2		_	SPARE				
	FREEZER	1080				21	] +	- 22	20		_		SPARE				
	REFRIG		1080			23		- 24		2		_	SPARE				
	TOTALS	4280	4280								2900	2400	TOTALS				
1 C 1 VOI:	T AMPS: . PHASE	- A .					DUAC	E B									
L.C.L. VUL	I AIVIFS FITASE	. ^ .					I IIASI		•								
TOTAL VOL	T AMPS: 13860 PHASE	A 7	180				PHAS	ЕВ	6680								
TOTA	L AMPS: 57.8 PHASE	- A F	n 0				DLIAC	E B	 								

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PROJECT TITLE AND SCHOOL LOCATION

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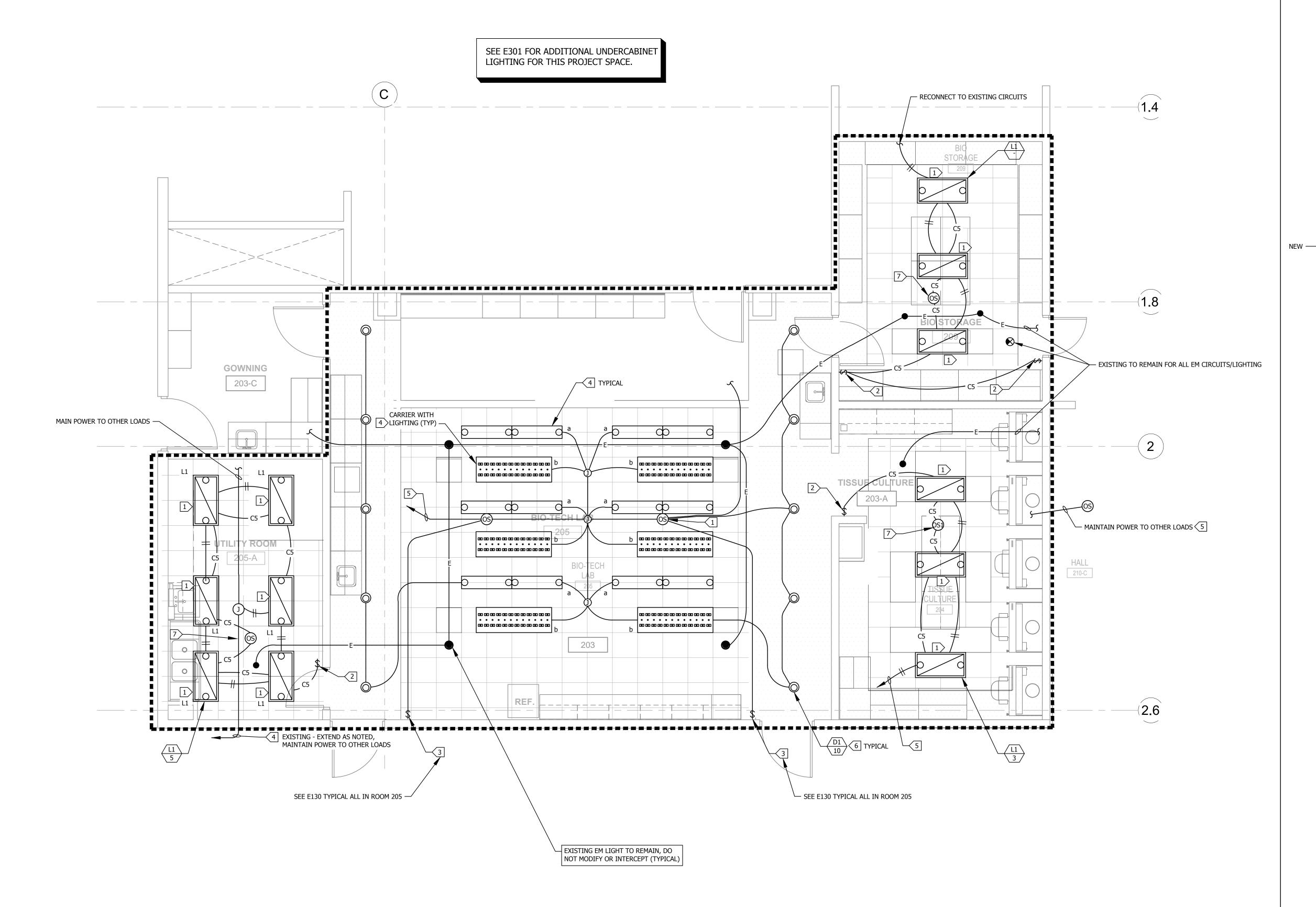
LUBBI E HEBUBLITES INB. 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519

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EXISTING ELECTRICAL PANEL SCHEDULE

	NEW LIGHTING FIXTURE													
TAG #	WATTAGE	DESCTRIPTOPN	MOUNTING	MODEL NUMBER										
AC 1	73	8" ROUND DOWNLIGHT - LED	T-BAR	LITHONIA LDN-35K-60-LO8-AR-LSS-TRW-MVOLT-EZ1-NPS80EZ										
L1 1	48	2' x 4' LED FLAT PANEL	T-BAR	LITHONIA EPANL-2x4-6000LM-80CRI-35K-MIN1-EZT-MVOLT-NLIGHT										



LIGHTING PLAN

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

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

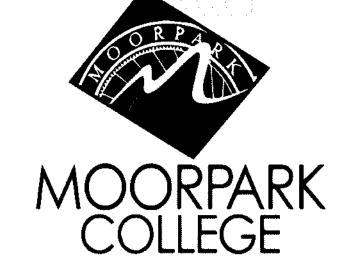


- 1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- 2. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- 4. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- 5. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 6. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- 7. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- 8. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM

### KEY NOTES:

- REPLACE WITH L1 FIXTURE.
- 2 NLIGHT SWITCH, RAISE LOWER nPODM-DX-WH
- 3 EXISTING TO REMAIN.
- NEW 4 REPLACE LAMPS PER E130
  - 5 HP-4 (TO BE REUSED).
  - 6 REPLACE FIXTURE PER E130 & NEW LIGHTING FIXTURES THIS SHEET.
  - 7 OCCUPANCY SENSOR-NLIGHT NCM-PDT-9.

DIVISION OF THE STATE ARCHITECT



7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

## **ALTERATION TO HSC FOR BIO-MANUFACTURING PROGRAM**

7075 CAMPUS ROAD MOORPARK, CA 93021

COMMISSIONED ARCHITECT

amador whittle architects, inc. 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

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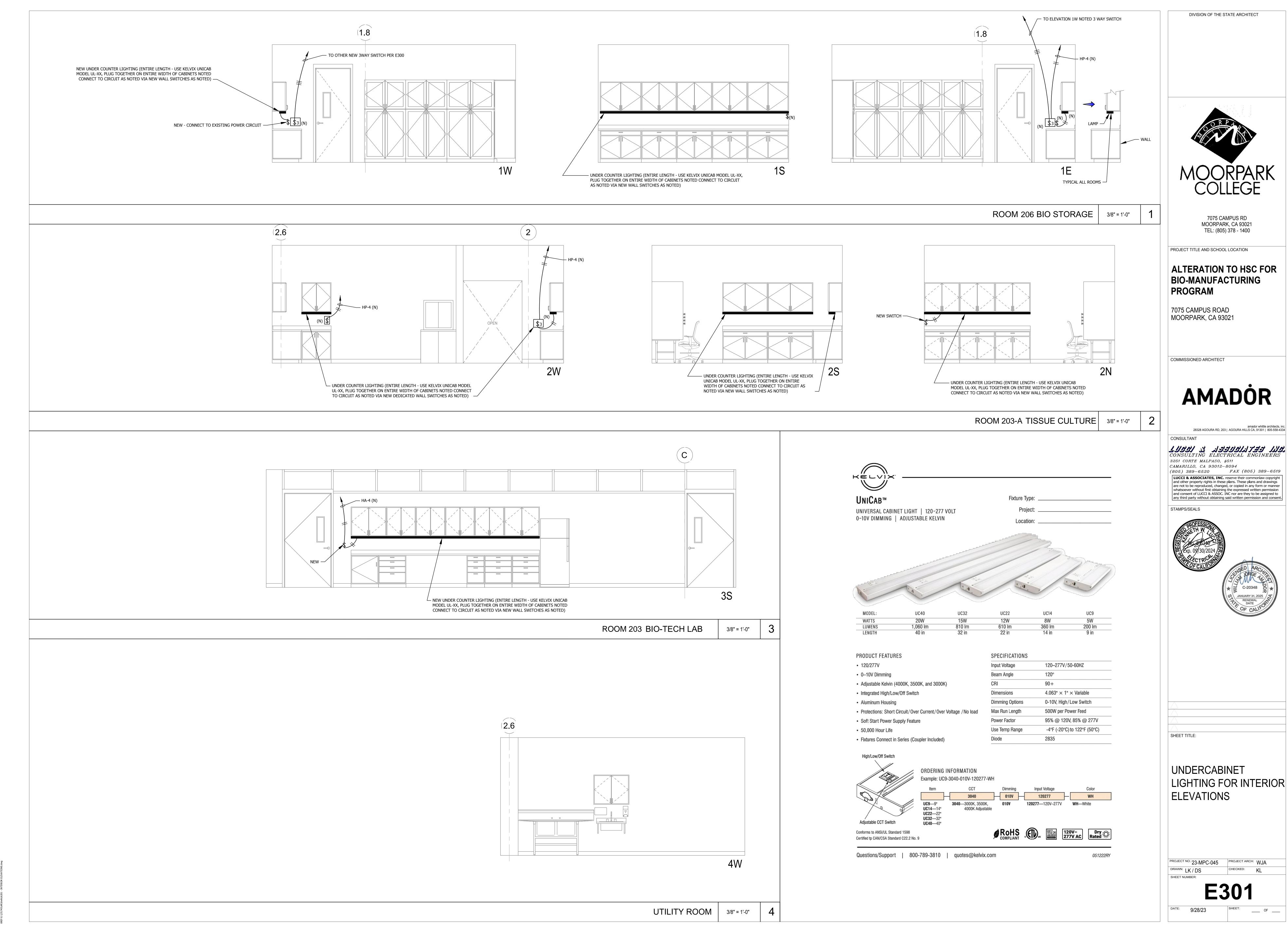
STAMPS/SEALS

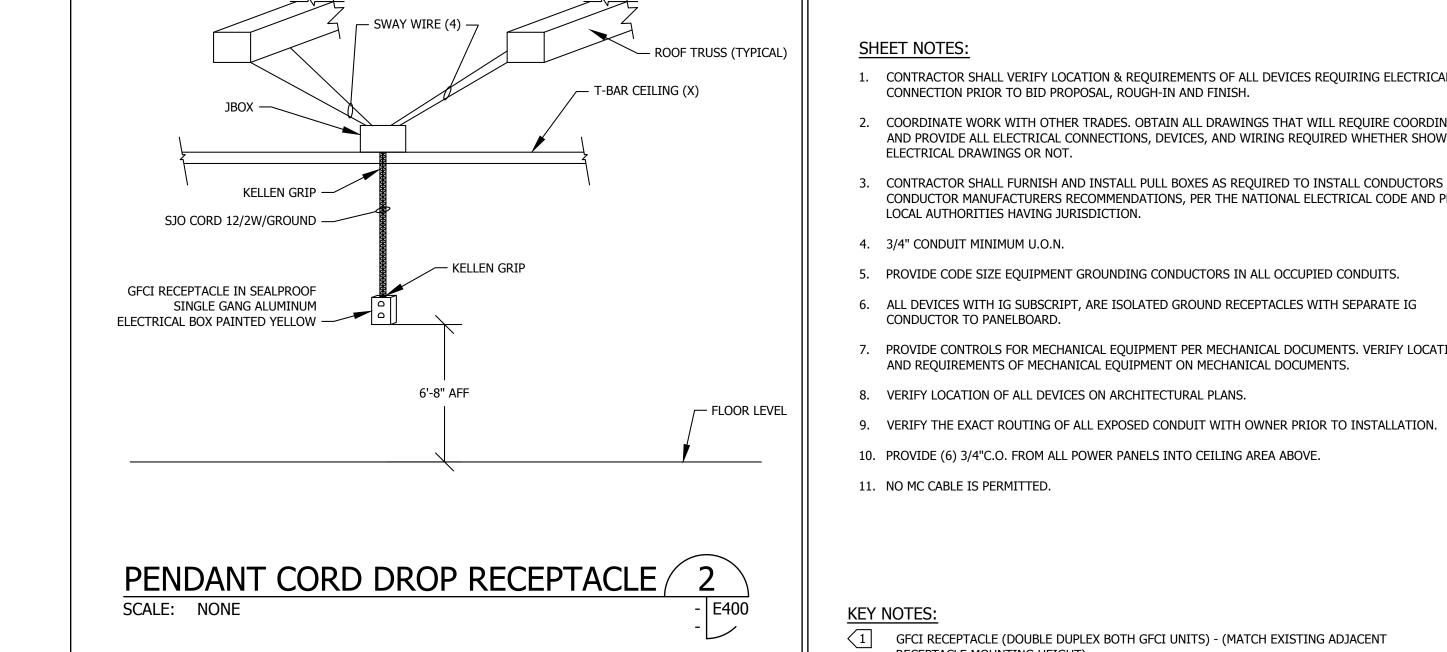
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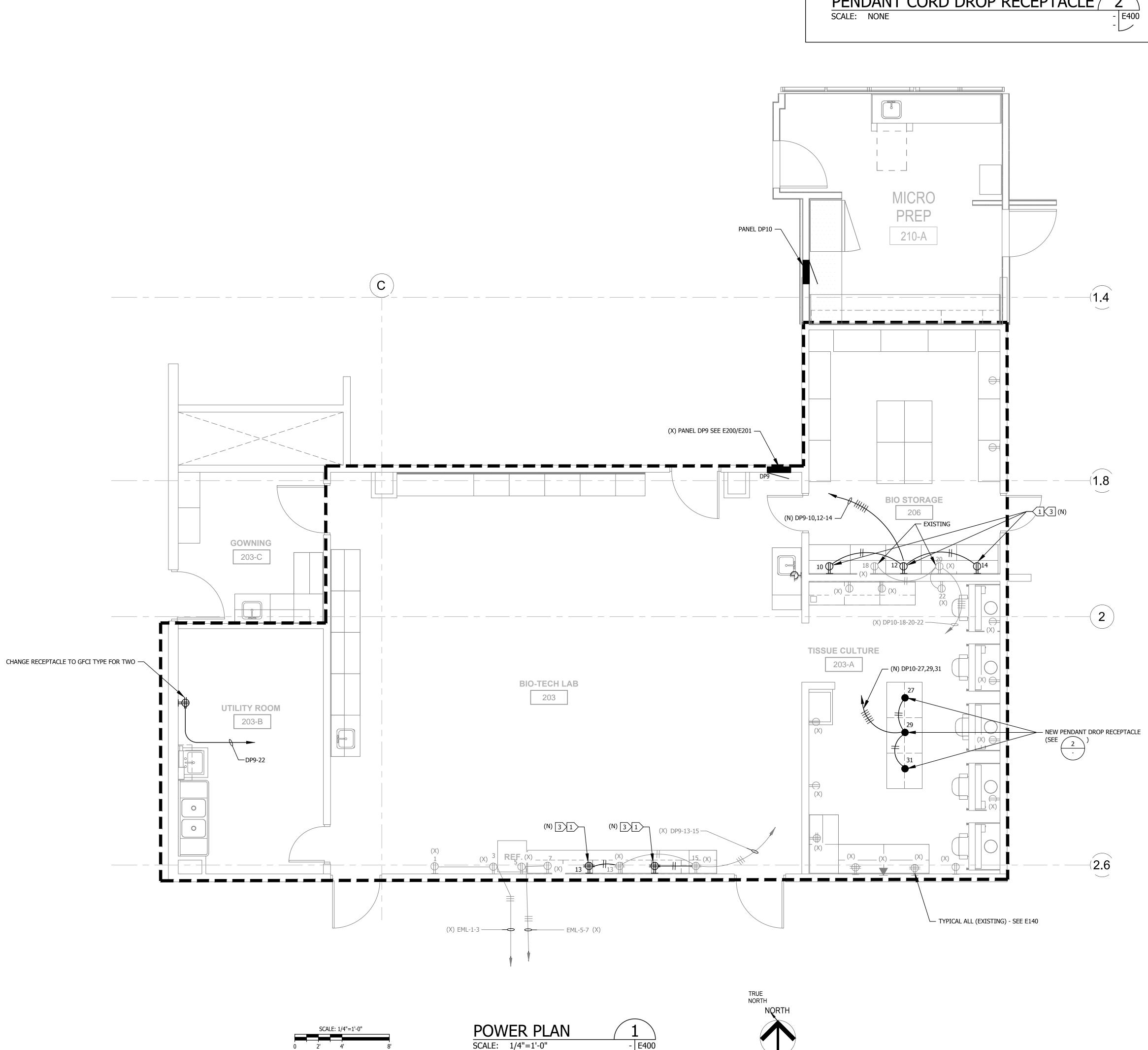


SHEET TITLE:

LIGHTING PLAN







### SHEET NOTES:

- 1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
- 2. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON
- ELECTRICAL DRAWINGS OR NOT. 3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER

CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER

4. 3/4" CONDUIT MINIMUM U.O.N.

LOCAL AUTHORITIES HAVING JURISDICTION.

- 5. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 6. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
- 7. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- 8. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 10. PROVIDE (6) 3/4"C.O. FROM ALL POWER PANELS INTO CEILING AREA ABOVE.
- 11. NO MC CABLE IS PERMITTED.

### **KEY NOTES:**

- GFCI RECEPTACLE (DOUBLE DUPLEX BOTH GFCI UNITS) (MATCH EXISTING ADJACENT RECEPTACLE MOUNTING HEIGHT).
- 2 NOT USED.
- 3 +44"AFF.
- 4 POWER OFF OF ROOF TOP SPLIT UNIT.
- 5 CONNECT PER MFG REQUIREMENTS.
- 6 PER E-420.
- SMART BOARD BY OWNER; CONTRACTOR INSTALLED.PROVIDE POWER RECEPTACLE ON RIGHT SIDE OF PROJECTOR MOUNT WHEN FACING WALL. PROVIDE FROM 2 GANG MUD RING BEHIND PROJECTOR MOUNT ON LEFT SIDE ABOVE SMART BOARD; (1)1"C-(2) CAT6E CABLES HOMERUN TO IDF VIA CABLE TRAY,(1)1-1/2"C-(2) CAT-6E CABLES AND (1) CRESTRON CABLE TO INSTRUCTORS STATION OR PODIUM.
- CABLES AT INSTRUCTORS STATION OR PODIUM; 2 GANG MUD RING ON WALL OR AT PODIUM PER ASK-164 TO 170. (1) 1"C-(2) CAT6E CABLES HOMERUN TO IDF VIA CABLE TRAY.
- 9 CONNECT TO AUTOCLAVE CONTROL POWER.
- 60A FUSED DISCONNECT WITH 40A FUSES, VERIFY FUSE SIZE WITH EQUIPMENT NAMEPLATE.
- 2 SEPARATE FLOOR PEDESTALS (POWER & COM).
- 4 DATA CABLES-1-1/2"C.
- 2 DATA CABLES-1"C.
- 14 HAND DRYER.
- (15) CONNECT TO TABLE/CASEWORK.
- (16) KEYPAD FOR DOOR ACTUATOR CONNECT PER MANUFACTURER.
- DOOR ACTUATOR CONNECT TO DP1-2.
- LOCATION OF SMART BOARD COM 2 GANG MUD RING WITH BLANK COVERS AND 1-1/2" TO
- SMART BOARD PROJECT.
- 19 DP12-36-38.
- 20 CONNECT TO HOODS TYPICAL.
- 21 EML-4-6-8. 22 DP12-30.
- 23 DP12-32-34.
- CONNECT TO UNIT WITH LIQUID TIGHT FLEX.
- PROVIDE FLOOR CORE & 3/4"PVC COATED RGS FROM FLOOR BELOW TABLE TO MAKE UP BOX IN TABLE. CONNECT #10 GROUND TO TABLE STEEL FOR PROPER GROUND.
- PROVIDE 3/4"C-4#10 & 1#10 (STRANDED) GND TO DP3, CIRCUITS AS NOTED.
- 27 DP3-1,3,5.
- 28 DP3-7,9,11.
- 29 DP3-13,15,17.
- 30 DP3-19,21,23. 31 DP3-225,27,29.
- 32 DP3-31,33,35.
- COMBINE WITH EML-17-19

HOMERUN CONDUIT.

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STAMPS/SEALS



POWER PLAN

SHEET TITLE:

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