

October 11, 2024

### ADDENDUM NO. 1

TO THE CONTRACT DOCUMENTS

#### **FOR**

SAN BERNARDINO COUNTY SUPERINTENDENT OF SCHOOLS

#### FOR THE

COLTON H.S. - SDC CLASSROOM BUILDING

DSA No: 04-121991 File No: 36-H4 RCA Project No. 3-79-02

#### **NOTICE TO BIDDERS**

This Addendum forms a part of the Contract and modifies the original documents, DSA Approved on October 18, 2023. It is intended that all work affected by the following modifications shall conform with related provisions and general conditions of the contract of the original drawings and specifications. Modify the following items wherever appearing in any drawing or sections of the specifications. Acknowledge receipt of Addendum No. 1 in the space provided on the Bid Form. Failure to do so may subject bidder to disqualification.

#### **GENERAL**

#### **RFBI RESPONSES**

RFBI 001

Specification 26 27 03, page 3, Paragraph 2.03 A.1a and b present Soundolier and Atlas speakers. To be consistent with the Rauland Telecenter system on this site, Thompson Engineering recommends Inside speakers ACC1401, Outdoor horns ACC1411

Answer: We take no exception taken to the Contractor recommended speakers, provided that the speakers match the speakers being provided for the adjacent Culinary Arts Building and that the exterior speakers are mounted in flush back-box with vandal-resistant grille.

**RFBI 002** 

Drawing E2.1 presents locations for door contacts and for a keypad. Specification section 26 27 03, paragraph 2.0 does not present a model number. To be consistent with other devices on site, it is requested the CJUSD provide the pertinent model number.

Answer: Use keypad model Bosch D1260 Alpha Command Center LCD control.

**RFBI 003** 

The specification package includes a specification section 27 51 26 for a Portable Assistive Listening System, but no ICON for the ALS device is presented on the drawings.

Answer: Provide ALS per sheet A-1.01 FLOOR PLAN. Location of ALS is shown on the sheet.

**RFBI 004** 

The specification requires connectivity to the existing Control Panel. However, there is no indication where the nearest connectivity point is located. CJUSD to advise location of nearest control panel, or expansion model is located.

Answer: The existing control panels are shown on sheet ES-1.1 and ES-1.2 of the Construction Documents.

**RFBI 005** 

The drawing presents this icon, \_\_ one location per classroom, with no definition in the symbol list. CJUSD to advise definition of this symbol. Please note, that if this symbol represents a Structured Cabling location, there is no Structured Cabling Specification Section in Division 26 or 27.

Answer: The symbol indicates flush in wall outlet box at +18" AFF with a 1" C. to accessible ceiling space, unless noted otherwise. The outlets shall have two (2) data connectors/cables and one (1) voice connector/cable. To clarify an open diamond symbol indicates single data connector/cable; a diamond symbol with a line thru the center indicates (2) data connectors/cables, and diamond symbol with crossed-lines indicated four (4) data connectors/cables.

connectors/cables, and diamond symbol with crossed-lines indicated four (4) data connectors/cables.

#### **CHANGES TO DRAWINGS**

#### **CIVIL DRAWINGS**

- Item No. 1.1 Reference Sheet C-3.1 GRADING AND UTILITY PLAN
  - 1.1.1 Revise per clouded areas:
    - a. Relocate POC for Sewer, Storm Drain, and Water
    - b. Revise Inverse Elevations for drains
    - c. Revise spot elevations
    - d. Update Section "A-A"

#### LANDSCAPE DRAWINGS

- Item No. 1.2 Reference Sheet LI-1 IRRIGATION PLAN LEGEND AND NOTES
  - 1.2.1 Revise per clouded areas:
    - a) Revise irrigation lines
- Item No. 1.3 Reference Sheet LP-1 PLANTING PLAN AND LEGEND
  - 1.3.1 Revise per clouded areas:
    - a. Revise quantities of plants and planting areas

#### **ARCHITECTURAL DRAWINGS**

- Item No. 1.4 Reference Sheet AS-1.1 OVERALL SITE PLAN & CODE ANALYSIS
  - 1.4.1 Revise per clouded areas of attached ASK-1.1:
    - a. Revise existing conditions
- Item No. 1.5 Reference Sheet AS-2.0 DEMOLITION SITE PLAN.
  - 1.5.1 Revise per clouded areas of attached ASK-1.2:
    - a. Revise existing conditions
    - b. Revise removal of existing fencing
- Item No. 1.6 Reference Sheet AS-2.1 ENLARGED SITE PLAN
  - 1.6.1 Revise per clouded areas of attached ASK-1.3:
    - a. Revise existing conditions on site
    - b. Revise new fencing location

#### **ELECTRICAL DRAWINGS**

- Item No. 1.7 Reference Sheet E-0.01 SYMBOL LIST AND GENERAL NOTES
  - 1.7.1 Revise per clouded areas:
    - a. Added missing symbols and descriptions to the Symbol List
- Item No. 1.8 Reference Sheet E-2.1 ELECTRICAL PLANS & SINGLE LINE DIAGRAM
  - 1.8.1 Revise per clouded areas:
    - a. Added intrusion detection magnetic contact to the roof hatch

#### **ATTACHMENTS:**

Specifications: N/A

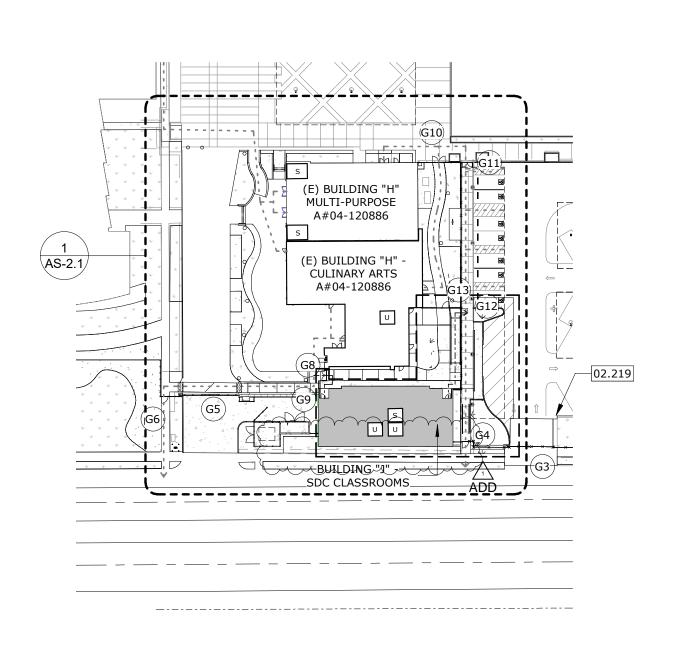
Sketches: ASK-1.1, ASK-1.2, ASK-1.3

**Sheets:** C-3.1, LI-1, LP-1, E-0.01, E-2.1

**END OF ADDENDUM NO. 1** 

Roger Clarke, Principal C-21340





ADD #1

## **OVERALL SITE PLAN - 1/AS-1.1**

1" = 60'-0"

COLTON H.S. - SDC CLASSROOM BUILDING San Bernardino School District

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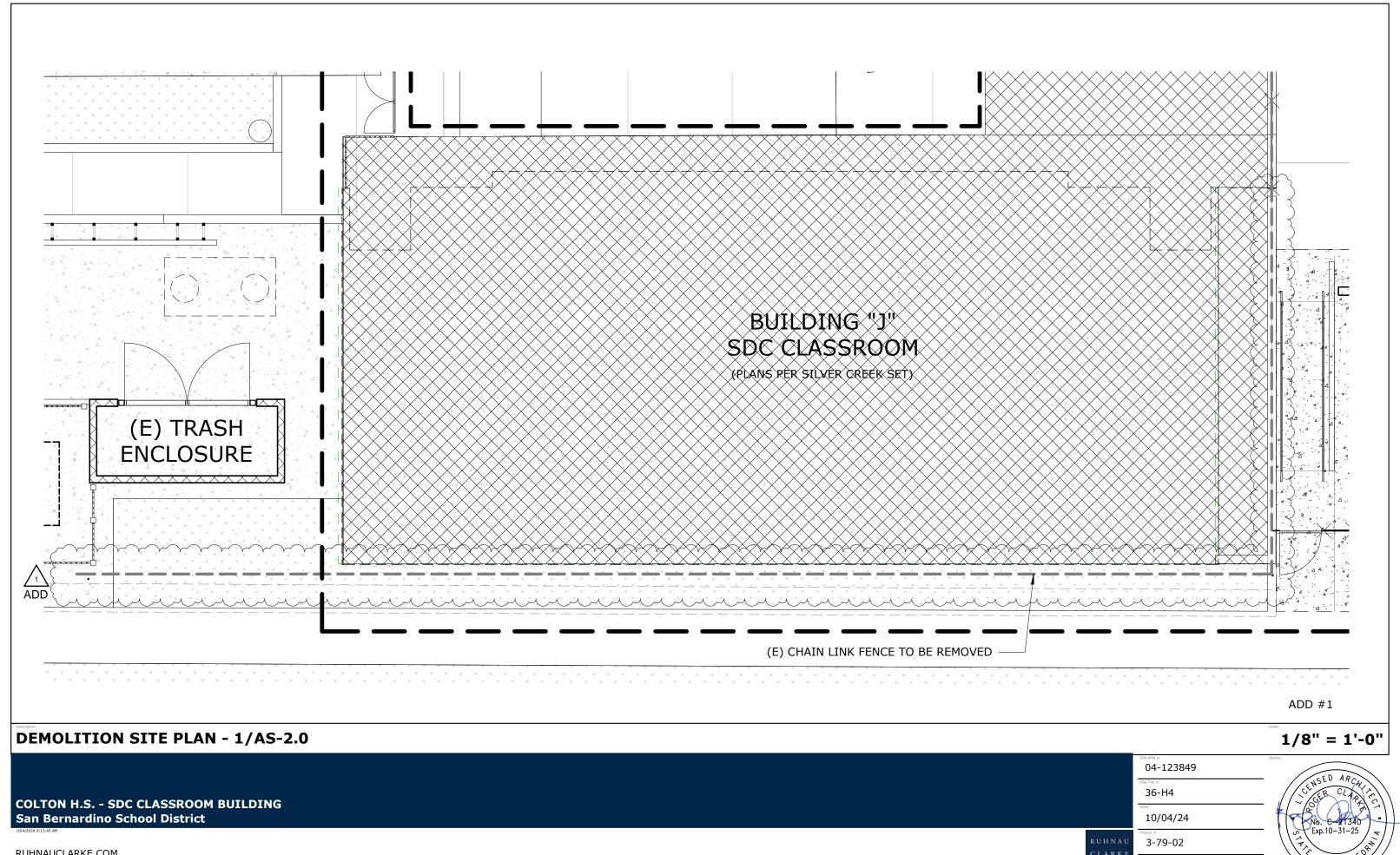
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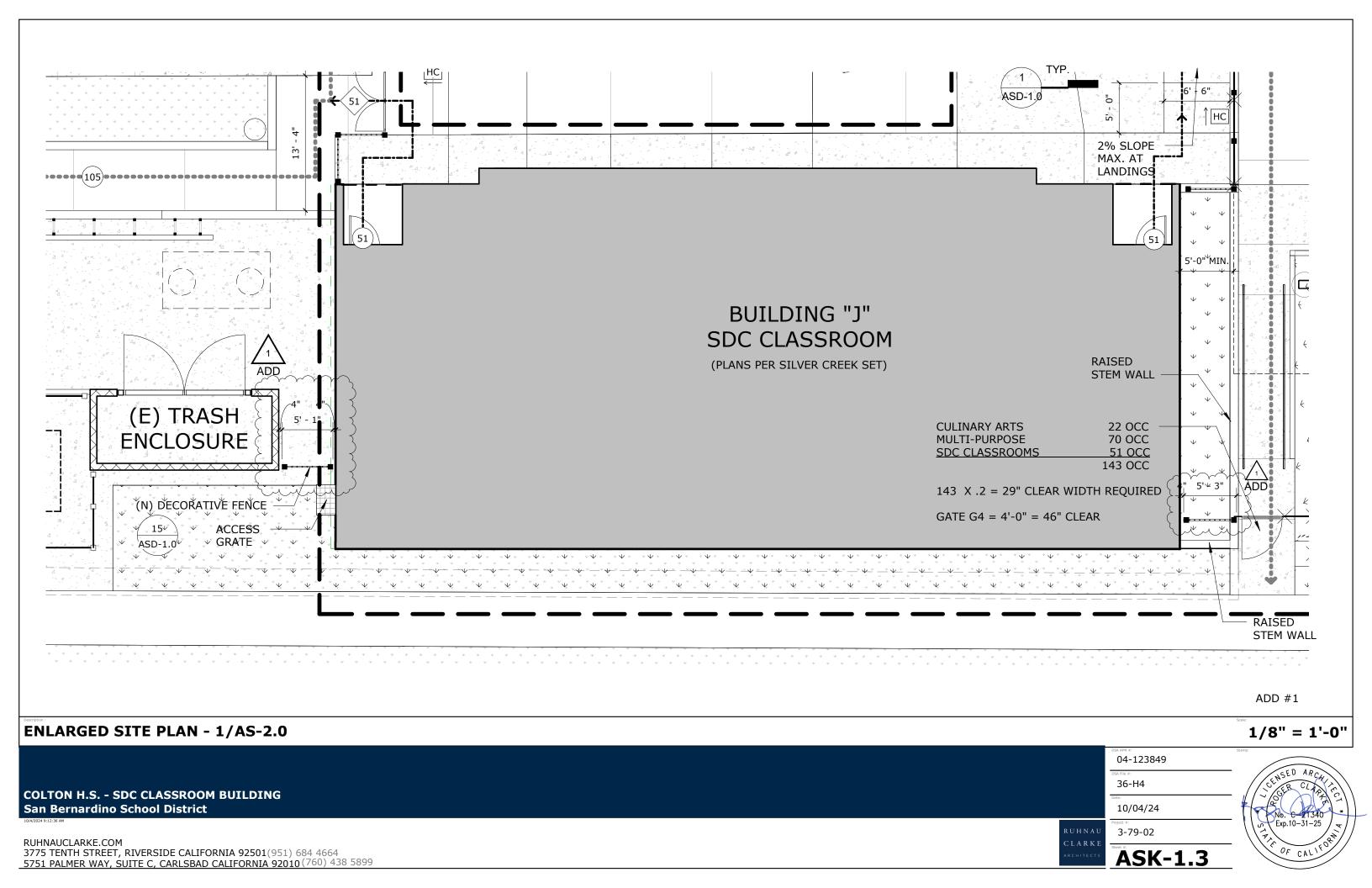
ASK-1.1

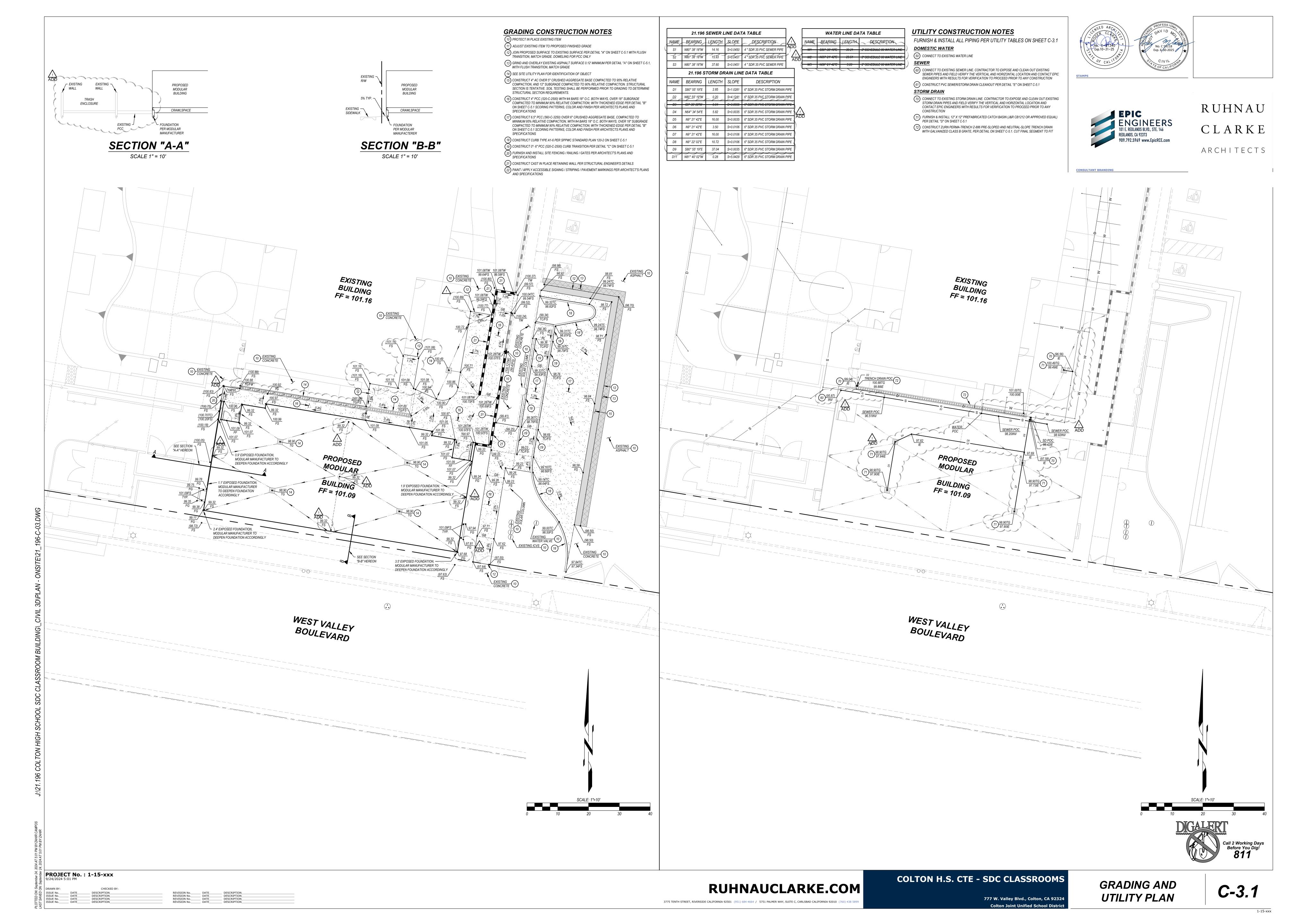




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ASK-1.2





# IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACT.	MODEL NO. / DESCRIPTION	GPM	PSI	RADIUS	DETAIL
•	RAIN BIRD	RWS-S-B-C-1401 DEEP WELL BUBBLER HEAD W/ SAND SOCK, EACH SYMBOL REPRESENTS ONE BUBBLER PER SHRUB.	.25	30	N/A	E/LI-2
$\nabla$	RAIN BIRD	RWS-BG-1402 DEEP WELL BUBBLER HEAD W/ SAND SOCK, EACH SYMBOL REPRESENTS TWO BUBBLERS PER TREE. ZONE SHRUBS AND TREES ON SAME VALVE.	.50 (1.0)	30	N/A	E/LI-2
•	RAIN BIRD	44LRC QUICK COUPLER VALVE W/ VALVE KEY AND HOSE SWIVEL DELIVERED TO DISTRIC	CT			C/LI-2
(E) <b>(</b> E)	EXISTING	EXISTING QUICK COUPLER — PROTECT IN PLACE DURING CONSTRUCTION				N/A
•	RAIN BIRD	EFB-CP SERIES BRASS REMOTE CONTROL VALVE. INSTALL WITH A NIBCO T-FP-600A IBALL VALVE, STEM AND HANDLE DIRECTLY BEFORE EACH REMOTE CONTROL VALVE, SAM				F,A/LI-2
(E) 🖸	EXISTING	EXISTING SITE IRRIGATION CONTROLLER. CONTRACTOR SHALL VERIFY LOCATION AND SHALL REMOTE CONTROL VALVES. CONTRACTOR SHALL COORDINATE STATION AND TIMING WITH DIS				N/A
(E) E	EXISTING	EXISTING 120 VOLT ELECTRICAL POWER AND ETHERNET DATA CONNECTION. SHOWN FOR	REFERENCE.			N/A
	AS APPROVED	PVC PIPE 3/4" AND GREATER, SCH. 40 AS LATERAL LINES 12" BELOW GRADE				B/LI-2
	EXISTING	PVC PIPE 2" CL 315 AS MAINLINES 18" BELOW GRADE — SOLVENT WELD. PVC PIPE 11/2" SCH. 40 AS MAINLINES 18" BELOW GRADE — SOLVENT WELD.				N/A
	AS APPROVED	PVC PIPE 11/2" SCH. 40 AS MAINLINES 18" BELOW GRADE — SOLVENT WELD.				B/LI-2
	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE CAR PLACE BELOW ALL PAVING, HARDSCAPE, ETC.	RIED.			D/LI-2
NO SYMBOL	AS APPROVED	IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED) ALL CONTROLLI LABELED AT THE CONTROLLER AND ALL JUNCTION AND VALVE BOXES, TO CORRESPOND				N/A
(E) (W	EXISTING	SPARE WIRE BOX FROM PREVIOUS WORK. MAKE WIRE CONNECTIONS FROM THIS LOCATION	ON TO NEW VALVES.			F/LI-2
NO SYMBOL	3M	DBR-6 DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONN	NECTIONS (U.L. APPROVED	).		N/A
NO SYMBOL	CARSON	ALL VALVE BOXES SHALL BE GREEN PLASTIC WITH STAINLESS STEEL BOLTS, NUTS AND AND CHRISTY'S YELLOW VALVE IDENTIFICATION TAGS.	WASHERS			F,C/LI-2

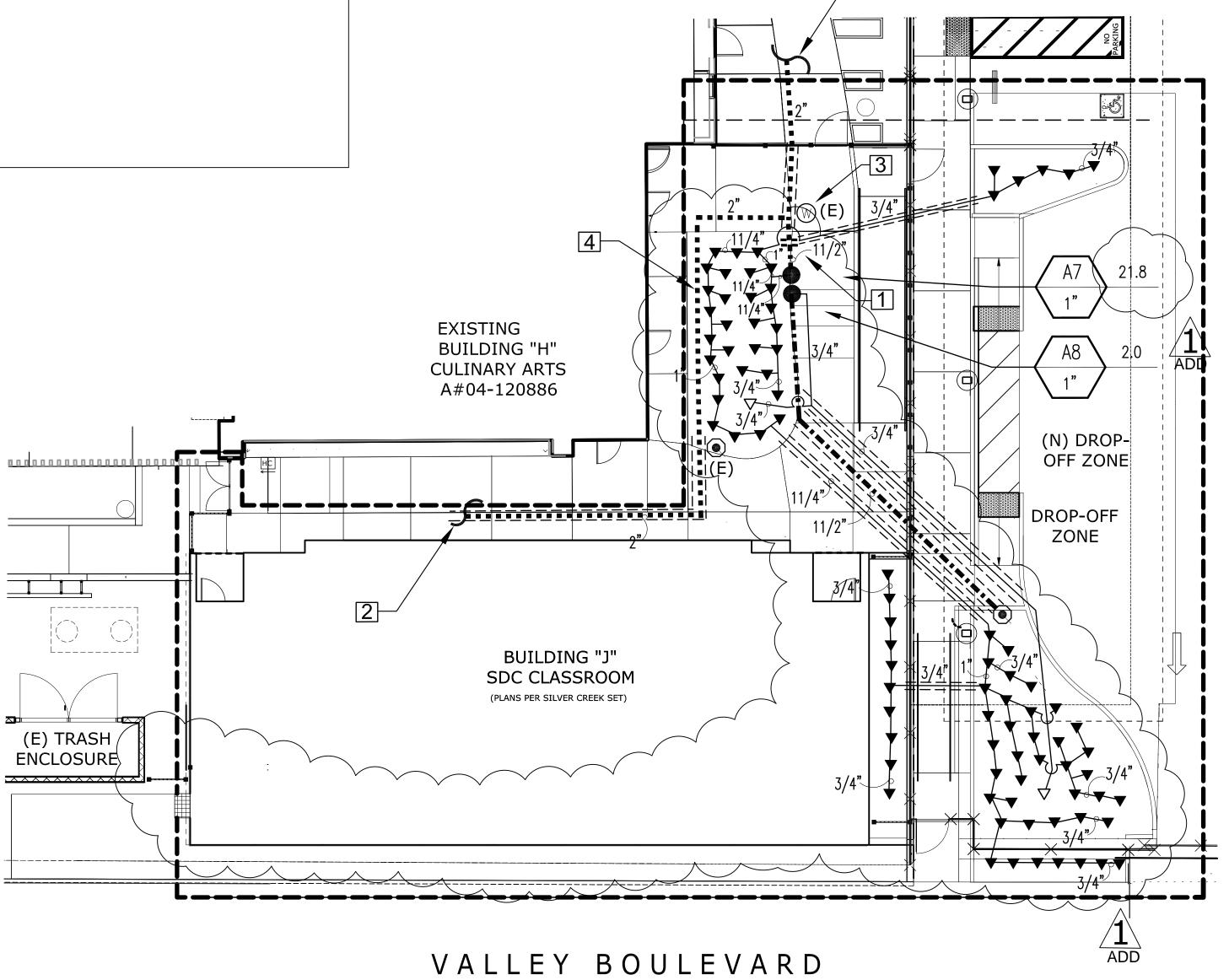
-VALVE NUMBER

---VALVE SIZE

**25 -** G.P.M.

## LANDSCAPE IRRIGATION WATER BUDGET (FOR NEW LANDSCAPE AREAS ONLY) (based on MWELO) PROJECT: Colton HS - SDC Classroom Building San Bernardino County Colton, California Project ETo: 55.60 MAXIMUM APPLIED WATER ALLOWANCE: (GALLONS PER YEAR) MAWA = (ETo)x(.62)x[(.65)(LA)+(.35)(SLA)] $55.60 \times 0.62 \times 533 + 0 = 18,374 \text{ Gal/yr}.$ Hundred Cu. Ft. / Yr. (divide by748) = 25 CCF/yr. ESTIMATED APPLIED WATER USED: (GALLONS PER YEAR) ETWU=(ETo) x (.62) x [(<u>Plant Factor</u>)x(<u>Hydrozone Sq. Ft.</u>)] + SLA] Irrigation Efficiency HYDROZONE # 1: (Shrubs - Bubblers) $55.60 \times 0.62 \times 0.5 \times 820$ / 0.9 + 0 = 15,704 Gal/yr. 18,374 Gal/yr. MAXIMUM APPLIED WATER ALLOWANCE: 15,704 Gal/yr. TOTAL ESTIMATED WATER USE: 21 CCF/yr. Water Conservation Note: This is an existing school expansion project. An SDC Classroom Building is being added to the eastern side of the new CTE Building. New shrub planters are proposed. On grade shrub planter areas are covered with shredded mulch.

Water conservation strategies are being implemented within the project.







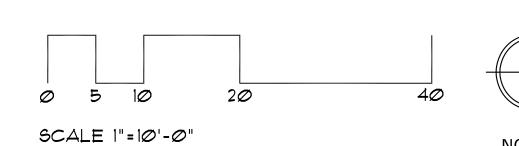
RUHNAU CLARKE

ARCHITECTS

CONSULTANT BRANDING

GENERAL IRRIGATION NOTES (THIS SHEET)

- IRRIGATION POINT OF CONNECTION AT THIS APPROXIMATE LOCATION. CONNECT NEW 1-1/2" PVC MAINLINE PIPE TO EXISTING CAPPED TEE. CONTRACTOR SHALL VERIFY EXISTING OPERATING PRESSURE AND SHALL REPORT ANY DISCREPANCIES TO THE DISTRICT REPRESENTATIVE.
- 2 CONTINUATION OF EXISTING 2" PVC IRRIGATION MAINLINE PIPING
- 3 EXISTING WIRE SPLICE BOX WITH 3 ADDITIONAL REMOTE CONTROL WIRES. VERIFY CONNECTION TO CONTROLLER. EXTEND WIRING TO NEW REMOTE CONTROL VALVES IN 1" CONDUIT.
- 4 EXISTING 2" PVC IRRIGATION MAINLINE (TYPCICAL). REFER TO SHEET LI-1 ADJACENT CTE PROJECT.



IRRIGATION PLAN 1"=10'

DRAWN BY:

ISSUE NO. DATE 9-30-24
ISSUE NO. DATE DESCRIPTION
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DESCRIPTION

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777 W. Valley Blvd., Colton, CA 92324

**Colton Joint Unified School District** 

# PLANTING LEGEND

GROUNDCOYER

LOCATE IN FLAT AREAS. MULCH COLOR SHALL BE NATURAL.

SYMBOL	ABBREV.	BOTANICAL NAME / COMMON NAME	SIZE	QUANTITY	REMARKS	WUCOLS - WATER USE DESIGNATION
	TREES					
	LOP CON	LOPHOSTEMON CONFERTUS - BRISBANE BOX	36" BOX	2	STANDARD-DOUBLE STAKE	MODERATE-0.5
	<u>SHRUBS</u>					
	ALO STR	ALOE STRIATA-CORAL ALOE	5 GALLON	21	PLANT @ 30" ON CENTER	LOW-0.2
<b>©</b>	CAL L.J.	CALLISTEMON 'LITTLE JOHN'-BOTTLEBRUSH	5 GALLON	ADD 6	PLANT @ 3' ON CENTER	LOW-0.2
$\bigcirc$	CAR G.C	CARISSA 'GREEN CARPET'-LOW NATAL PLUM	5 GALLON	6	PLANT @ 3' ON CENTER	MODERATE-0.5
$\langle \! \rangle$	HES PAR	HESPERALOE PARVIFLORA-RED YUCCA	5 GALLON	19	PLANT @ 3' ON CENTER	LOW-0.2
+	LAN MON	LANTANA MONTEVIDENSIS-PURPLE LANTANA	5 GALLON	14	PLANT @ 3' ON CENTER	LOW-0.2
R	RHA UMB	RHAPHIOLEPIS U. 'MINOR'-YEDDO HAWTHORN	5 GALLON	19	PLANT @ 3' ON CENTER	MODERATE-0.5

SHREDDED BARK MULCH - 3" LAYER-2" MINUS SIZE-SUPPLIER APPROVED BYTHE LANDSCAPE ARCHITECT.

GENERAL PLANTING NOTES

NOTE A:

CONTRACTOR SHALL CHECK IRRIGATION COVERAGE IN ALL LANDSCAPE AREAS TO INSURE 100% COVERAGE PRIOR TO INSTALLATION OF PLANT MATERIAL.

NOTE B:

CONTRACTOR SHALL INSURE THAT ALL LANDSCAPE AREAS ARE FINE GRADED AND THAT DRAINAGE IS ADEQUATE PRIOR TO INSTALLATION OF PLANT MATERIAL.

NOTE C:

CONTRACTOR SHALL SECURE HORTICULTURAL SOILS TEST IMMEDIATELY FOLLOWING ROUGH GRADING TO DETERMINE TYPE AND QUANTITY OF SOIL AMENDMENTS - REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS.

NOTE D:

CONTRACTOR SHALL REPAIR EXISTING LANDSCAPE THAT IS DAMAGED DURING CONSTRUCTION AND SHALL REPAIR DAMAGE TO IRRIGATION SYSTEM.

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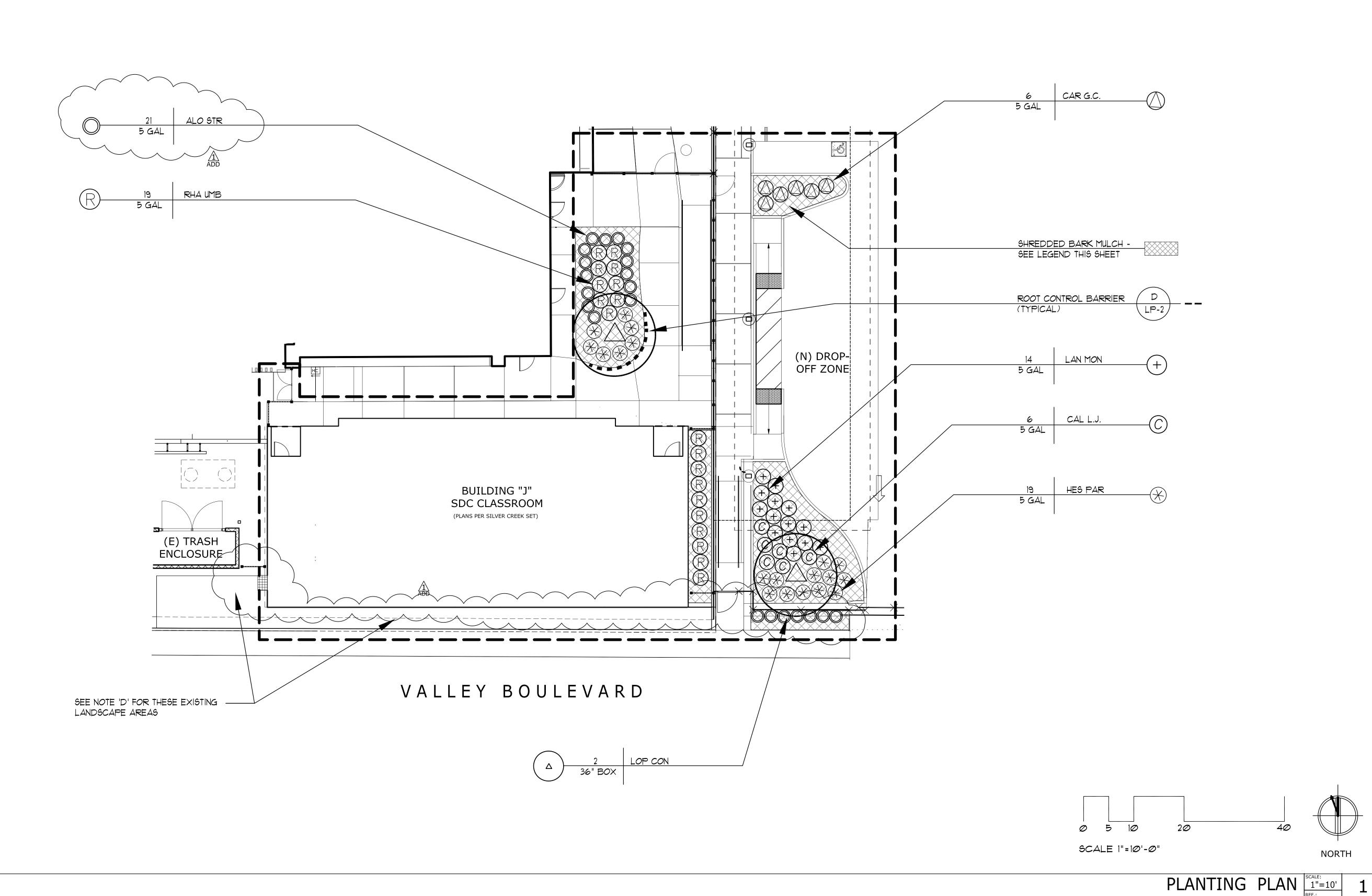
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MM+LA ASSOCIATES
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Tel. 760-525-2343

CONSULTANT BRANDING

R U H N A U C L A R K E

ARCHITECTS



PROJECT No.: 3-79-02 9/30/2024 5:09 PM

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ISSUE NO. A DATE 9-30-24 DESCRIPTION ADDENDUM 1 REVISION NO. DATE DESCRIPTION SISSUE NO. DATE DESCRIPTION REVISION NO. DATE DESCRIPTION REVISION NO. DATE DESCRIPTION SISSUE NO. DATE DESCRIPTION REVISION NO. DATE DESCRIPTION DATE DESCRIPTION DATE DESCRIPTION DATE DESCRIPTION DATE DESCRIPTION

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COLTON H.S. CTE - SDC CLASSROOMS

PLANTING PLAN AND LEGEND LP-1

11. BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL FEATURES OF THE SITE, AND ALL BUILDING DRAWINGS WHICH MAY AFFECT THE EXECUTION OF THE WORK. NO EXTRA PAYMENT WILL BE

ALLOWED FOR FAILURE TO OBTAIN THIS INFORMATION.

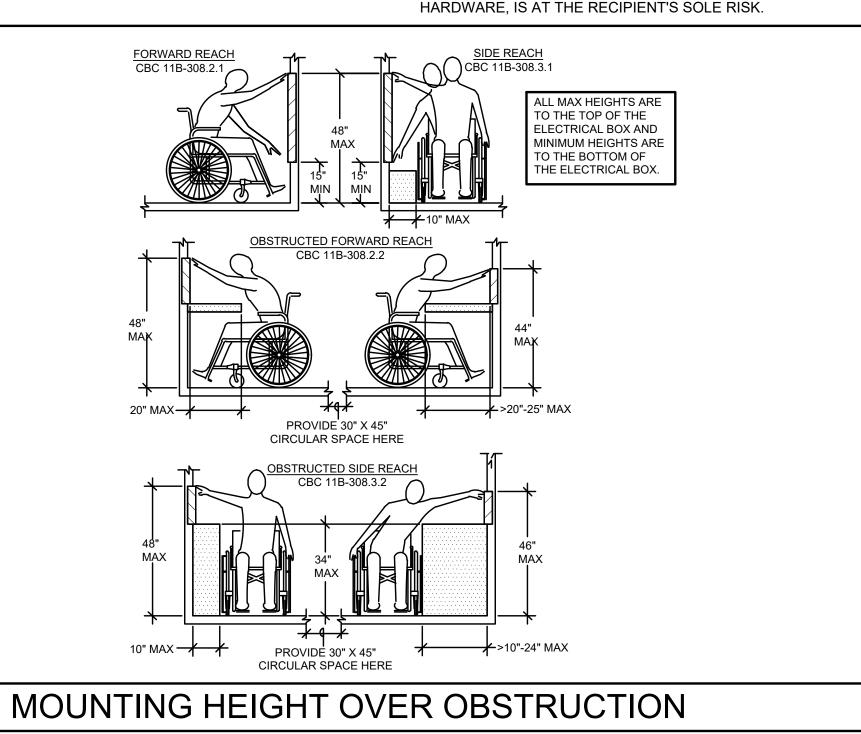
- 12. PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE FROM ANY CAUSE WHATEVER AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL THE WORK UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND REPLACE ALL DAMAGED OR DEFECTIVE WORK, MATERIALS AND EQUIPMENT BEFORE REQUESTING FINAL ACCEPTANCE.
- 13. THE DRAWINGS INDICATE IN A DIAGRAMMATIC MANNER, THE DESIRED LOCATIONS OF ARRANGEMENT OF THE COMPONENTS OF ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS, AND UNDEFINED CONSTRUCTION DETAILS AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE REQUIREMENTS. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE. AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF CONDITIONS ENCOUNTERED.
- 14. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO DEVELOPE CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- 15. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS OF EXISTING CONDUITS. THE EXACT ROUTING SHALL BE VERIFIED IN FIELD AND LENGTH OF CONDUCTORS SHALL BE ADJUSTED TO THE LENGTH REQUIRED.
- 16. PERFORM CUTTING AND PATCHING ON THE CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. PATCHING SHALL BE OF THE SAME MATERIAL, WORKMANSHIP AND FINISH AS SPECIFIED AND ACCURATELY MATCH SURROUNDING WORK TO SATISFACTION OF THE ARCHITECT.
- 17. PROVIDE ALL EQUIPMENT WITH ENCLOSURES LISTED OR LABELED FOR USE AND LOCATION WHERE SUCH EQUIPMENT IS INSTALLED.
- 18. PROVIDE UL LISTED FIRE STOP FOR ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS AND CEILINGS TO MAINTAIN ALL FIRE RATINGS. THE FIRE STOP MATERIALS SHALL BE RE-ENTERABLE AND REUSABLE.
- 19. PROVIDE COORDINATED SHOP DRAWINGS. INDICATING DIMENSIONED LOCATIONS AND SIZES OF ALL CORE DRILLS FOR REVIEW AND APPROVAL ALL CORE DRILL LOCATIONS SHALL BE VERIFIED AND APPROVED WITH OWNERS REPRESENTATIVE, STRUCTURAL AND ARCHITECT PRIOR TO CORE DRILL. UTILIZE X-RAY EQUIPMENT TO LOCATE AND VERIFY EXISTING STRUCTUREAL ELEMENTS WITHIN SLAB.
- 20. GROUNDING SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, BOTH OF THE STATE OF CALIFORNIA AND LOCAL AUTHORITIES HAVING JURISDICTION.
- 21. PROVIDE GROUND WIRE IN EACH CONDUIT CONTAINING CIRCUITS FEEDING RECEPTACLES. THE CONDUIT SHALL NOT BE PERMITTED TO SERVE AS THE ONLY ELECTRICAL GROUND RETURN PATH.
- 22. WHERE CIRCUIT CHANGES OR ADDITIONS OCCUR IN PANELBOARDS UPDATE PANEL DIRECTORY CARDS WITH NEW TYPEWRITTEN CARDS INDICATING DESCRIPTION OF ALL CIRCUITS.
- 23. PROVIDE HANDLE TIES AT CIRCUIT BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS OF MULTI-WIRE BRANCH CIRCUITS WITH A SHARED NEUTRAL
- 24. UNLESS NOTED OTHERWISE ALL 120 VOLT HOMERUNS OVER 100 FEET SHALL BE #10 AWG MINIMUM. ADJUST CONDUIT SIZE ACCORDINGLY.
- 25. UNLESS NOTED OTHERWISE ALL 277 VOLT HOMERUNS OVER 200 FEET SHALL BE #10 AWG MINIMUM, OVER 300 FEET SHALL BE #8 AWG MINIMUM. ADJUST CONDUIT SIZE ACCORDINGLY.
- 26. NOTIFY THE ARCHITECT IN WRITING WHEN INSTALLATION IS COMPLETE AND THAT A FINAL INSPECTION OF THIS WORK CAN BE PERFORMED. IN THE EVENT DEFECTS OR DEFICIENCIES ARE FOUND DURING THIS FINAL INSPECTION, THEY SHALL BE CORRECTED TO THE SATISFACTION OF THE ARCHITECT BEFORE FINAL ACCEPTANCE CAN BE ISSUED.
- 27. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT. NEITHER DRILLED NOR NOTCHED. WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
- 28. CONDUITS RUN ABOVE GRADE: PROVIDE OZ COMPANY TYPE "DX" EXPANSION/DEFLEXION FITTINGS WITH BONDING JUMPER ON ALL CONDUITS AT ALL BUILDING EXPANSION OR SEISMIC JOINT CROSSINGS.
- 29. ALL FIXED EQUIPMENT CONNECTIONS SHALL BE PROVIDED WITH FLEX

 THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OR EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIALS REQUIRED FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.

- THESE PLANS, SPECIFICATIONS, AND ALL MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL LEGAL AND INDUSTRY REQUIREMENTS, AND STANDARDS INCLUDING WITHOUT LIMITATION TO THE FOLLOWING:
- a. CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 (CALIFORNIA BUILDING CODE), 2022 EDITION.
- b. CALIFORNIA CODE OF REGULATIONS TITLE 24. PART 3 (CALIFORNIA ELECTRICAL CODE), 2022 EDITION.
- c. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 6 (CALIFORNIA ENERGY CODE), 2022 EDITION.
- d. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2022 EDITION.
- e. OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
- f. THE ELECTRICAL SYSTEMS FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").
- g. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.
- h. THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS. CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
- 3. THE PLANS REPRESENT ONLY THE FINISHED ELECTRICAL FIRE ALARM, AND LOW VOLTAGE SYSTEMS. AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.
- 4. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE ELECTRICAL WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.
- IN INTERPRETATING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
  - a. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED
  - b. SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE. FIELD VERIFY DIMENSIONS PRIOR TO
- IN IMPLEMENTING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
- a. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED; AND THE CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AN ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.
- b. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 7. SUBMITTALS WILL BE REVIEWED BY THE ELECTRICAL ENGINEER, IF AT ALL ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN A1A DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.
- 8. IN NO EVENT WILL ANY SITE VISITS BY THE ELECTRICAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF ELECTRICAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. ELECTRICAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECEIPIENT'S SOFTWARE OR HARDWARE, AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR

SCALE

NONE



(ALL SYMBOLS NOT NECESSARILY USED ON THESE DRAWINGS) ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION AS NOTED ON THE DRAWINGS VERIFY EXACT LOCATIONS AND HEIGHTS OF OUTLETS WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.

AND TWO (2) COMPUTER CONNECTER. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE. LIGHTING CONTROL SYSTEM - 1"C. WITH CONDUCTORS AS SPECIFIED. CEILING MOUNTED SPEAKER AND GRILLE ON FLUSH IN CEILING BACK BOX. PROVIDE ONE SET OF CAT6A CABLE ON J-HOOKS AND CONDUIT SLEEVES TO

DATA OUTLET,"R" INDICATES RECESSED FLOOR BOX WITH MULTI-SERVICE FITTINGS

BUILDING DATA CABINET/TRACK AND CONNECT AS REQUIRED EXTERIOR SPEAKER AND WEATHERPROOF VANDELPROOF GRILLE ON SURFACE WALL BACKBOX, +90" WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE.

INTRUSION DETECTION SYSTEM KEY PAD, ON FLUSH WALL MOUNTED OUTLET BOX AT +45"A.F.F. WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE. INTRUSION DETECTION SYSTEM MOTION SENSOR, ON FLUSH CEILING MOUNTED OUTLET BOX, +90". WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE.

OUTLET BOX, +90". WITH 1" CONDUIT TO CABLE TRAY, U.N.O. DATA DROP LOCATION WITH TWO (2) CONNECTORS AND 15 FEET OF SLACK CABLE LOCATED IN ACCESSIBLE CEILING SPACE FOR WIRELESS ACCESS POINT EQUIPMENT. CABLE SHALL BE COILED-UP AND BUNDLE AT THE LOCATION INDICATED FOR FUTURE CONNECTION TO WIRELESS ACCESS POINT EQUIPMENT BY

INTRUSION DETECTION SYSTEM MOTION SENSOR. ON FLUSH WALL MOUNTED

INTRUSION DETECTION SYSTEM MAGNETIC DOOR CONTACT MOUNTED FLUSH IN THE EXTERIOR DOOR FRAME. PROVIDE A 1"C. WITH INTRUSION DETECTION SYSTEM CONDUCTORS EXTENDING CONCEALED IN WALL FROM HOLLOW METAL DOOR FRAME AND STUBBING INTO THE ACCESSIBLE CEILING SPACE.

STANDARD SIZE COMBINATION IP/SPEAKER UNIT ON FLUSH IN WALL BACKBOX, +90" AFF WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE U.N.O PROVIDE TWO (2) SETS OF CAT 6A CABLES THROUGH CONDUIT, J-HOOKS AND CONDUIT SLEEVE TO BUILDING MDF/IDF CABINET INFORMATION.

IP CLOCK ON FLUSH IN WALL BACKBOX, +90" AFF WITH 1" CONDUIT ACCESSIBLE CEILING SPACE U.N.O PROVIDE ONE (1) CAT 6A CABLE THROUGH CONDUIT, J-HOOK AND CONDUIT SLEEVES TO BUILDING MDF/IDF CABINET FOR TERMINATION 

A.F.F. ABOVE FINISH FLOOR ABOVE FINISH GRADE A.F.G. AMERICAN WIRE GAUGE

AMP, A AMPERE AMPERES INTERRUPTING CAPACITY (SYMMETRICAL) AMP FRAME, AMP TRIP AF/AT

AMP SWITCH, AMP FUSE AS/AF CIRC., CKT. CIRCUIT CIRCUIT BREAKER CB CONDUIT

C.O. CONDUIT ONLY CONNECTED CLCB CURRENT LIMITING CIRCUIT BREAKER

DIAMETER EXISTING EQUIPMENT AND/OR DEVICE TO REMAIN ENERGY MANAGEMENT CONTROL SYSTEM

ELECTRICAL METALLIC TUBING ELECTRIC WATER COOLER **END-OF-LINE CIRCUIT TERMINATOR EXHAUST FAN** 

FIRE ALARM FULL LOAD AMPS **GROUND FAULT INTERRUPTER** GROUND

FEET

FT OR '

HAND-OFF-AUTO HOA HEATING, VENTILATING AND AIR CONDITIONING

HEIGHT, WIDTH, DEPTH, LENGTH H.,W.,D.,L HIGH INTENSITY DISCHARGE **HORSEPOWER** HIGH PRESSURE SODIUM INCHES

ISOLATED GROUND JUNCTION BOX **KILOVOLT AMPERES KILOWATT** LONG CONTINUOUS LOAD

LINEAR FEET LTG, LTS LIGHTING MCB MAIN CIRCUIT BREAKER MAIN LUGS ONLY

METAL HALIDE MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS MCM

MOTOR CIRCUIT PROTECTOR MOUNTED

MICROWAVE NEW EQUIPMENT AND/OR DEVICE TO BE PROVIDED MICROWAVE

NORMALLY CLOSED NORMALLY OPEN NON-FUSED NOT IN CONTRACT NO. OR#

OWNER FURNISHED, CONTRACTOR INSTALLED OVER 600 VOLTS PH. OR Ø

FURNISH, INSTALL AND CONNECT PUBLIC ADDRESS EXISTING EQUIPMENT/DEVICE TO BE DISCONTINUED AND REMOVED

EXISTING RELOCATED EQUIPMENT TO BE RECONNECTED REC, RECEPT RECEPTACLE **UNLESS NOTED OTHERWISE** 

\$ 2.P SINGLE POLE TOGGLE SWITCH, ON FLUSH WALL MOUNTED OUTLET BOX, +45". INSTALL MULTIPLE SWITCHES UNDER COMMON COVER PLATE. SUBSCRIPT OR SUPERSCRIPT AT SWITCH SYMBOL INDICATES THE FOLLOWING:

2 - DOUBLE POLE 3 - THREE WAY 4 - FOUR WAY

> P - PILOT LIGHT M - MANUAL MOTOR STARTERS K - KEY OPERATED R - SPDT MOMENTARY CONTACT RELAY SWITCH

V - VAPOR PROOF a,b,c,d, ETC. - MULTIPLE SWITCHES WITH IDENTIFICATION OF OUTLET CONTROLLED

3 BUTTON CONTROLLER STATION WITH "OPEN-STOP-CLOSE" BUTTONS ON FLUSH WALL MOUNTED OUTLET BOX +45". SYMBOL INDICATES THE FOLLOWING K - KEY OPERATED

DUPLEX CONVENIENCE RECEPTACLE VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX, +18". STEM INDICATES WALL MOUNTED OUTLET BOX, TYPICAL.

DUPLEX CONVENIENCE RECEPTACLE HORIZONTAL ON FLUSH WALL MOUNTED OUTLET BOX, +6" ABOVE COUNTER

DUPLEX CONVENIENCE RECEPTACLE SPLIT WIRED, ON FLUSH WALL MOUNTED OUTLET BOX, +18". DOUBLE DUPLEX (FOUR-PLEX) CONVENIENCE RECEPTACLE ON ONE FLUSH WALL MOUNTED OUTLET BOX

DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT INTERRUPTER, VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX +18". U.N.O.

DOUBLE DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT INTERRUPTER, VERTICAL ON LUSH WALL MOUNTED OUTLET BOX +18". U.N.O.

DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT INTERRUPTER, HORIZONTAL ON FLUSH WALL MOUNTED OUTLET BOX, +6" ABOVE COUNTER SPLASH. U.N.O.

DUPLEX CONVENIENCE RECEPTACLE, WITH INTERNAL GROUND FAULT INTERRUPTER, IN FLUSH WALL MOUNTED ENCLOSURE WITH HINGED DOOR, LOCK AND KEY, +18".

DUPLEX CONVENIENCE RECEPTACLE, WITH INTERNAL GROUND FAULT INTERRUPTER, ON FLUSH WALL MOUNTED OUTLET BOX WITH SPRING DOOR COVER, +18" U.N.O.

LC == DUPLEX CONVENIENCE RECEPTACLE, SPLIT WIRED, IN FLUSH IN WALL OUTLET BOX, +18". HALF OF DUPLEX RECEPTACLE SHALL BE CONTROLLED BY THE ROOM'S LIGHTING CONTROL SYSTEM IN ACCORDANCE WITH CEC

TITLE 24 LIGHTING REQUIREMENTS. DOUBLE DUPLEX CONVENIENCE RECEPTACLE IN FLUSH FLOOR OUTLET BOX. "R" DESIGNATION INDICATES

RECESSED FLOOR BOX WITH MULTI-SERVICE FITTINGS, WIREMOLD "RFB" SERIES BOX OR EQUAL. DUPLEX CONVENIENCE RECEPTACLE, IN FLUSH FLOOR OUTLET BOX, UNLESS NOTED OTHERWISE. "R" DESIGNATION NDICATES RECESSED FLOOR BOX WITH MULTI SERVICE FITTINGS, WIREMOLD "RFB" SERVICE BOX OR EQUAL.

DUPLEX CONVENIENCE RECEPTACLES, BACK TO BACK, "P" INDICATES PEDESTAL TYPE ON SURFACE MOUNTED

POKE-THRU FLOOR BOX FOR POWER AND DATA. WALKER RB6.

DUPLEX CONVENIENCE RECEPTACLE, ON FLUSH CEILING MOUNTED OUTLET BOX FOR PROJECTOR.

(J)— JUNCTION BOX, FLUSH WALL MOUNTED, +18" U.N.O.

JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING OR ON EXPOSED CEILING. U.N.O.

INDICATES CONNECTION TO EQUIPMENT AS REQUIRED, TYPICAL. U.N.O.

THERMOSTAT ON FLUSH WALL MOUNTED OUTLET BOX. REFER TO MECHANICAL DRAWINGS FOR HEIGHT AND

PANELBOARD, ADJACENT LINE INDICATES PANEL FRONT. ADJACENT BALLOON INDICATES PANEL DESIGNATION "A", SEE DRAWING E-1 FOR PANEL SCHEDULE.

TERMINAL CABINET OR EQUIPMENT CABINET. ADJACENT LINE INDICATES CABINET FRONT. FLOOR STANDING SWITCHGEAR ADJACENT BALLOON INDICATES EQUIPMENT DESIGNATION "DBA", SEE DRAWING

E-1 FOR SINGLE LINE DIAGRAM AND/OR SCHEDULE. TERMINAL CABINET OR EQUIPMENT CABINET. ADJACENT LINE INDICATES CABINET FRONT.

PROVIDE SWITCH AND FÜSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.

CIRCUIT BREAKER WITH ZERO SEQUENCE GROUND FAULT RELAY SYSTEM.

TRANSFORMER; KVA, LINE AND LOAD VOLTAGE RATINGS AS INDICATED. FIGURE 1. FUSED SAFETY SWITCH (DISCONNECT), HORSE POWER RATED. MOUNT ON WALL +45", OR ON EQUIPMENT +36".

AM-FM ANTENNA (VERIFY MOUNTING LOCATION)

©- OUTLET BOX FOR CLOSED CIRCUIT CAMERA. PROVIDE 1" C. TO BUILDING'S ACCESSIBLE CEILING. (VERIFY

○<sup>9</sup> HOME RUN TO MCA-11, INDICATES MOTOR CONTROL CENTER "MCA" CIRCUIT NO. 11. SEE RESPECTIVE SCHEDULE FOR

PUSH BUTTON STATION WITH "STOP-START" PUSH BUTTONS AND RED INDICATING PILOT LIGHT ON FLUSH WALL

CONDUIT, INSTALLED CONCEALED IN WALL OR IN CEILING SPACE CONDUIT, INSTALLED CONCEALED IN OR UNDER FLOOR OR BELOW GRADE, 3/4" CONDUIT MINIMUM.

——— CONDUIT, INSTALLED EXPOSED. ←<del>p ||||</del> HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7, 9 WITH COMMON NEUTRAL

UNDERGROUND CONDUIT STUBOUT, STUB 5'-0" FROM BUILDING OR WALKWAY, CAP, MARK AND RECORD. MOTOR CONNECTION. PROVIDE FUSED SAFETY SWITCH (DISCONNECT). HORSE POWER RATED. WALL MOUNTED. +45" OR

EQUIPMENT MOUNTED, +36". PROVIDE SWITCH AND FUSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.

PO JUNCTION BOX, FLUSH IN FLOOR. "P" INDICATES PEDESTAL TYPE ON FLUSH FLOOR MOUNTED OUTLET BOX.

INTRUSION DETECTION SYSTEM KEY PAD ON FLUSH WALL MOUNTED OUTLET BOX, 45" AFF.

AUDIO/VIDEO OUTLET, ON FLUSH WALL MOUNTED OUTLET BOX WITH COVERPLATE AND GROMETTED OPENING. PROVIDE OUTLET BOX, COVERPLATE AND 1" CONDUIT CONCEALED IN WALL TO THE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE VGA AND USB CABLE FROM THE TEACHER'S DESK TO THE INTERACTIVE WHITEBOARD AND SHORT THROW PROJECTOR OUTLET LOCATED AT THE TEACHING WALL. MOUNT AV OUTLET AT TEACHER'S DESK AT +18". MOUNT AV OUTLET AT INTERACTIVE WHITEBOARD AT +70". REFERENCE ET5.4.

AUDIO/VIDEO CONTROL PANEL, ON FLUSH IN WALL MOUNTED OUTLET BOX, +45" A.F.F. LOCATED AT TEACHER'S DESK. PROVIDE CONTROL PANEL, OUTLET BOX AND 1" CONDUIT CONCEALED IN WALL DOWN TO AV CONNECTOR PLATE AT +18" A.F.F. PROVIDE AV CABLING BETWEEN AV CONTROL PANEL AND AV CONNECTOR PLATE IN ACCORDANCE WITH THE AV SYSTEM REQUIREMENTS. REFERENCE ET5.4.

CLOSED CIRCUIT TELEVISION CAMERA, DOME MOUNTED, AT 108 IN. ABOVE FINISHED GRADE.

CLOSED CIRCUIT TELEVISION CAMERA ARM. MOUNT AT 108 IN. ABOVE FINISHED GRADE.

TELEPHONE OUTLET, ON FLUSH FLOOR MOUNTED OUTLET BOX. WITH MULTI-SERVICE FITTINGS

TELEPHONE OUTLET, ON FLUSH WALL MOUNTED OUTLET BOX +18", WITH DESK MOUNTED DEVICE WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE. "C" INDICATES HORIZONTAL IN FLUSH WALL MOUNTED OUTLET BOX +6" ABOVE COUNTER SPLASH.

▶ ■ TELEPHONE OUTLET, ON FLUSH WALL MOUNTED OUTLET BOX +45", WITH WALL MOUNTED DEVICE WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE.

T1 — TELEPHONE SYSTEM 3/4"C. WITH 1 (ONE) SET OF CONDUCTORS AS SPECIFIED. T2 - 1"C. WITH 2 (TWO) SET OF CONDUCTORS AS SPECIFIED T3 - 1 1/4"C. WITH 3 (THREE) SET OF CONDUCTORS AS SPECIFIED T4 - 1 1/2"C. WITH 4 (FOUR) SET OF CONDUCTORS AS SPECIFIED

—— D1 —— COMPUTER/DATA PROCESSING SYSTEM - 1"C. WITH CONDUCTORS AS SPECIFIED. D2 — COMPUTER/DATA PROCESSING SYSTEM - 1 1/4"C. WITH CONDUCTORS AS SPECIFIED.

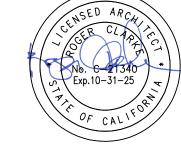
—— D3 —— COMPUTER/DATA PROCESSING SYSTEM - 1 1/2"C. WITH CONDUCTORS AS SPECIFIED. COMPUTER/DATA OUTLET WITH ONE (1) COMPUTER CONNECTER, ON FLUSH WALL MOUNTED OUTLET BOX +18". PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE, "C" INDICATES HORIZONTAL IN FLUSH WALL MOUNTED OUTLET BOX +6" ABOVE COUNTER SPLASH

COMPUTER/DATA OUTLET WITH TWO (2) COMPUTER CONNECTERS, ON FLUSH WALL MOUNTED OUTLET BOX +18". PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE "C" INDICATES HORIZONTAL IN FLUSH WALL MOUNTED OUTLET BOX +6" ABOVE COUNTER SPLASH.

COMPUTER/DATA OUTLET WITH FOUR (4) COMPUTER CONNECTERS, ON FLUSH WALL MOUNTEI

OUTLET BOX +18". PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE

"C" INDICATES HORIZONTAL IN FLUSH WALL MOUNTED OUTLET BOX +6" ABOVE COUNTER SPLASH. COMPUTER/VOICE OUTLET WITH TWO (2) COMPUTER CONNECTOR AND ONE (1) VOICE CONNECTOR ON FLUSH WALL MOUNTED OUTLET BOX. +18". UNLESS NOTED OTHERWISE. "C" INDICATES HORIZONTAL FLUSH WALL MOUNTED OUTLET BOX, +6" ABOVE COUNTER SPLASH. PROVIDE 1" CONDUIT TO CEILING





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## ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 C BC.SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE7-10 CHAPTER 13.26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES
- SUCH AS ELECTRICITY, GAS OR WATER. 3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THE 400 POUNDS ARE REQUIRED TO BE

ANCHORED WITH TEMPORARY ATTACHMENTS. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLAN. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED

DUCTWORK, PIPING, AND CONDUIT. A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS ,LESS THAN 5 POUNDS PER FOOT,WHICH ARE SUSPENDED FROM ROOF OR FLOOR OR HUNG FROM A WALL FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS.THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING.DUCTWORK, AND ELECTRICAL DISTRIBUTIN SYSTEM NOTE,

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.3,13.6.7,13.6.8,AND 2016 CBC, SECTIONS 1616A. 1.24,1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), **ELECTRICAL DISTRIBUTION SYSTEMS (E):** 

MP☐ MD☐ PP☐ Eত -OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP□ MD□ PP□ E□ -OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #

MP□ MD□ PP□ -OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL\_\_\_\_ AND

CONNECTION LEVEL \_\_\_\_\_ FOR THE PROJECT

## **ELECTRICAL SHEET INDEX**

AND CONDITIONS.

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ES-1.1	OVERALL SITE ELECTRICAL PLAN	
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PROJECT No. : 3-79-02

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COLTON H.S. CTE - SDC CLASSROOMS SYMBOL LIST AND

**GENERAL NOTES** 

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