

July 2, 2020

ADDENDUM NO. 2

TO THE CONTRACT DOCUMENTS

FOR

DAVIDSON ELEMENTARY SCHOOL - SINGLE POINT ENTRY

FOR THE

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT 777 North F Street San Bernardino, CA 92410

DSA No. 04-118593 File No. 36-55 RCA Job No. 1-78-26

NOTICE TO BIDDERS

This Addendum forms a part of the Contract and modifies the original documents DSA Approved on November 14, 2019. 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. 2 in the space provided on the Bid Form. Failure to do so may subject bidder to disqualification.

GENERAL ITEMS

Item No. 2.1General Items:2.1.1The Engineer's Estimate is between \$350,000 to \$450,000.

CHANGES TO THE SPECIFICATIONS

ltem No. 2.2	Reference Attachment 1 - Bid Form:
2.2.1	Replace Attachment 1 - Bid Form in its entirety per attached.
Item No. 2.3 2.3.1	Reference Section 01 30 00 - Administrative Requirements: Add attached Submittal / Shop Drawing Transmittal in its entirety. Submittals sent for review without signed Submittal / Shop Drawing Transmittal shall be deemed incomplete and will be returned to contractor unreviewed.
Item No. 2.4	Reference Section 01 52 00 - Construction Facilities:
2.4.1	Temporary construction lay-down area shall be per attached Exhibit 01 52 00.
Item No. 2.5	Reference New Section 07 01 50.20 - Roofing, Restoration, Patch and Repair:
2.5.1	Add attached new Section 07 01 50.20 in its entirety.

Item No.	2.6 2.6.1	Reference Section 08 71 00 - Door Hardware: Hardware Schedule revised per attached revised Section 08 71 00.
Item No.	2.7	Reference Section 08 80 00 - Glazing:
	2.7.1	Add Plastic Films to section per attached revised Section 08 80 00.
ltem No.	2.8	Reference New Section 27 53 13 - Clock System:
	2.8.1	Add attached new Section 27 53 13 in its entirety.
ltem No.	2.9	Reference Section 28 13 53.11 - Network Compatible Intercom (IX System):
	2.9.1	Replace section in its entirety per attached Section 28 13 53.11.

CHANGES TO THE DRAWINGS

Item No. 2.10	Reference Sheet C-3.1:				
2.10.1	Added bollards and revised landscape area near Admin entry per attached Sketch CSK-02.00.				
Item No. 2.11	Reference Sheet C-4.1:				
2.11.1	Line data table revised to reflect site plan updates per attached Sketch CSK-02.01.				
Item No. 2.12	Reference Sheet LI-1:				
2.12.1	Irrigation plan revised to reflect planter changes per attached Sketch LSK-2.1.				
Item No. 2.13	Reference Sheet LP-1:				
2.13.1	Planting plan revised per attached Sketch LSK-2.2.				
Item No. 2.14	Reference Sheet AS-1.0:				
2.14.1	Revise size of Gate G1 to be (N) 7-6" X 4'-0" (PR).				
Item No. 2.15 2.15.1	Reference Sheet ASD-1.1: Clarifying notes added for existing features and extents of new and demo work revised per clouded areas of attached revised Sheet ASD-1.1.				
Item No. 2.16	Reference Sheet ASD-1.2:				
2.16.1	Add new Details 6 and 7 per attached Sketch ASK-02.01.				
Item No. 2.17 2.17.1 2.17.2	Reference Sheet ASD-1.3: Detail 5 height of curb clarified to vary (refer to Civil for applicable curb heights) and Detail 17 replaced in its entirety per attached Sketch ASK-02.02. Detail 7, dimension of center post to be verified in field.				
ltem No. 2.18 2.18.1	 Reference Sheet A1-1.0: Sheet revised per clouded areas of attached Sheet A1-1.0 and as described below: a. Detail 3, Note 2 added clarifying installation heights and Keynote 22.403 added b. Detail 4, Keynotes revised c. Detail 5, Accent Wall clarified to be Elevation 4 d. Detail 7, Note 2 added clarifying installation heights. e. Detail 22, Note added to remove areas of dry rot. f. Detail 24: Mow curb added at planter against building wall Note added for roller shade locations Planter area reduces adjacent to Door 101A and Keynote 27.400 for Airphone added circulation desk revised Keynotes clarified at Staff Restroom 104 g. Detail 25, Note added clarifying installation heights and Keynotes added. 				

Item No. 2.19 2.19.1	 Reference Sheet A1-2.1: Sheet revised per clouded areas of attached Sheet A1-2.1 and as described below: a. Detail 1, note added. b. Detail 2: Dimensions clarified Keynote 05.104 added Light Fixture Type revised
Item No. 2.20 2.20.1	 Reference Sheet A1-4.1: Sheet revised per clouded areas of attached Sheet A1-4.1 and as described below: a. Detail 5, revise casework and graphics layouts b. Detail 8, revise Type 102 casework to be Type 211 at Elevation 13 c. Detail 24, desk layout reversed
Item No. 2.21	Reference Sheet A1-5.1:
2.21.1	Elevations, Keynotes and Legend revised per clouded areas of attached revised Sheet A1-5.1.
Item No. 2.22	Reference Sheet A1-8.1:
2.22.1	Detail 13, Exterior Window dimensions clarified per attached Sketch ASK-02.03.
Item No. 2.23	Reference Sheet A1-9.1:
2.23.1	Schedule and finishes revised per clouded areas of attached revised Sheet A1-9.1.
Item No. 2.24	Reference Sheet AD-3.0:
2.24.1	Add new Details 2 and 17 per attached Sketch ASK-02.04.
2.24.2	Add new Detail 6 per attached Sketch ASK-02.09.
2.24.3	Detail 19 mortar bed note revised per attached Sketch ASK-02.05.
2.24.4	Delete Detail 23B in its entirety per attached Sketch ASK-02.06.
2.24.5	Details 24 and 25, wood framing and header clarified to be existing per attached Sketch ASK-02.07.
2.24.6	Add new Details 29 and 30 per attached Sketch ASK-02.08.
Item No. 2.25	Reference Sheet M1-1.0:
2.25.1	Revised ductwork and return air grille location for new ceiling layout per attached Sketch MSK-1.00.
Item No. 2.26 2.26.1	Reference Sheet P0-0.2: Plumbing Schedule: Revise WC-1 from the Kohler #K-4405 Highline to Kohler #K-96057 Highcliff water closet.
Item No. 2.27	Reference Sheet E0.2:
2.27.1	Add Plan Note #3 to sheet per attached revised Sheet E0.2.
Item No. 2.28 2.28.1	 Reference Sheet E1.0: Sheet revised per clouded areas of attached revised Sheet E1.0 and as described below: a. Add Plan Notes 8, 9, 10, and 11. b. Revise Overall site plan adding temporary system pathway + conductors from existing Administration Office to temporary Administration office in Room B5.
ltem No. 2.29 2.29.1	 Reference Sheet E2.0: Sheet revised per clouded areas of attached revised Sheet E2.0 and as described below: a. Revised plan notes 9, 11. b. New plan notes 24, 25, 26 c. Detail 1 - Renovation Power Plan 1. Add notation for exterior electrical device work. 2. Add power for electrified door hardware. 3. Provide location for PA System microphone and zone controller. d. Detail 2 - Demolition Power and Signal Plan 1. Add general note for existing conduit above ceilings to be demolished and installed new. 2. Add work scope for temporary location and connection of PA System microphone and zone controller. 3. Move Plan note #2 from renovation plan for clarity.

- Item No. 2.30 Reference Sheet E3.0:
 - 2.30.1 Detail 1 revised Lighting at Reception 101 and Detail 2 added general note for existing conduit above ceilings to be demolished and installed new per attached revised Sheet E3.0.
- Item No. 2.31 Reference Sheet E4.0:
 - 2.31.1 Sheet revised per clouded areas of attached revised Sheet E4.0 and as described below:
 - a. Add Plan Note 7.
 - b. Detail 1 Renovation Security Plan:
 - 1. Add permanent location for intrusion keypads
 - 2. Add notes for IP Video Intercom system at Reception 101 main entry door.
 - c. Detail 2 Demolition Security Plan:
 - 1. Add General Note for existing conduit above ceilings to be demolished and installed new.
 - 2. Add work scope for temporary location and connection of intrusion system keypads.
- Item No. 2.32 Reference Sheet EFA2.0:
 - 2.32.1 Annuniciator Panel added per attached revised Sheet EFA2.0.

ATTACHMENTS	
Exhibits	01 52 00
Specifications	Attachment 1 - Bid Form, 01 30 00.02, 07 01 50.20, 08 71 00, 08 80 00, 27 53 13, 28 13 53.11
Sketches	CSK-02.00 thru CSK-02.01, LSK-2.1 thru LSK-2.2, ASK-02.01 thru ASK-02.09, MSK-1.00
Sheets	A1-1.0, A1-2.1, A1-4.1, A1-5.1, A1-9.1, ASD-1.1, E0.2, E1.0, E2.0, E3.0, E4.0, EFA2.0

END OF ADDENDUM NO. 2

Roger Clarke, Principal #C-21340

DAVIDSON ELEMENTARY SCHOOL

EXHIBIT 01 52 00 - CONTRACTOR PARKING LAYDOWN/STAGING







N. DAVIDSON A

Attachment 1 - Bid Form

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

Project: <u>F20-04 SINGLE POINT ENTRY – DAVIDSON ELEMENTARY SCHOOL</u>

Project Address: Davidson Elementary School - 2844 N Davidson Ave, San Bernardino, CA 92405

Bid No.

CONTRACTOR NAME:						
DIR REGISTRATION NUMBER:						
ADDRESS:						
TELEDUONE.	()				
TELEPHONE:	()				
FAX:	()				
EMAIL:						

- TO: SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT, acting by and through its Governing Board, herein called "DISTRICT".
- 1. Pursuant to and in compliance with your Notice Inviting Bids and other documents relating thereto, the undersigned bidder, having familiarized himself with the terms of the contract, the local conditions affecting the performance of the contract, the cost of the work at the place where the work is to be done, with the drawings and specifications, and other contract documents, hereby proposes and agrees to perform within the time stipulated, the contract, including all of its component parts, and everything required to be performed, including its acceptance by the DISTRICT, and to provide and furnish any and all labor, materials, tools, expendable equipment, and utility and transportation services necessary to perform the contract and complete all of the work in a workmanlike manner required in connection with the construction of:

Bid No. F20-04 Davidson Elementary School Parking Lot and Security Enhancements

in the DISTRICT described above, all in strict conformance with the drawings and other contract documents on file at the Purchasing Office of said DISTRICT for amounts set forth herein.

2. <u>Bidder acknowledges the following Addenda:</u>

Addenda Number:	Addenda Number:	Addenda Number:	Addenda Number:	Addenda Number:
1 (Inc. in Bid Set)				

3. Bidder shall provide Unit Cost per square foot for Plaster Repairs:

a. Unit Cost per Square Foot: \$_____

4. Total Base Bid

- A. Base Bid (\$_____)
- B. Allowance

(\$_____)

TOTAL PRICE – ENTIRE JOB (Base Bid A + Allowance B)

TOTAL CASH PURCHASE PRICE IN WORDS & NUMBERS:

DOLLARS

)

(\$_____

4. Alternate Bids: N/A

5. <u>Time for Completion</u>:

The DISTRICT may give a notice to proceed within ninety (90) days of the award of the bid by the DISTRICT. Once the CONTRACTOR has received the notice to proceed, the CONTRACTOR shall complete the work in the time specified in the Agreement. By submitting this bid, CONTRACTOR has thoroughly studied this Project and agrees that the time period for this Project was adequate for the timely and proper completion of the Project. Further, CONTRACTOR has included in the analysis of the time required for this Project, Rain Days, Governmental Delays, and the requisite time to complete Punch List.

In the event that the DISTRICT desires to postpone giving the notice to proceed beyond this ninety (90) day period, it is expressly understood that with reasonable notice to the CONTRACTOR, giving the notice to proceed may be postponed by the DISTRICT. It is further expressly understood by the CONTRACTOR, that the CONTRACTOR shall not be entitled to any claim of additional compensation as a result of the postponement of giving the notice to proceed.

If the CONTRACTOR believes that a postponement will cause a hardship to it, the CONTRACTOR may terminate the contract with written notice to the DISTRICT within ten (10) days after receipt by the CONTRACTOR of the DISTRICT's notice of postponement. Should the CONTRACTOR terminate the contract as a result of a notice of postponement, the DISTRICT shall have the authority to award the contract to the next lowest responsible bidder, if applicable.

It is understood that the DISTRICT reserves the right to reject any or all bids and/or waive any irregularities or informalities in this bid or in the bid process. The CONTRACTOR understands that it may not withdraw this bid for a period of ninety (90) days after the date set for the opening of bids.

6. Bid Security:

Attached is bid security in the amount of not less than ten percent (10%) of the total bid:

Bid bond (10% of the Bid), certified check, or cashier's check (circle one)

7. <u>Designated Subcontractors</u>:

The required List of Designated Subcontractors is attached hereto.

8. Non-Collusion Declaration

The required is attached hereto.

9. Substitution Request Form:

The Substitution Request Form, if applicable, is attached hereto.

10. Acceptance:

It is understood and agreed that if written notice of the acceptance of this bid is mailed, telegraphed, or delivered to the undersigned after the opening of the bid, and within the time this bid is required to remain open, or at any time thereafter before this bid is withdrawn, the undersigned will execute and deliver to the DISTRICT a contract in the form attached hereto in accordance with the bid as

accepted, and that he will also furnish and deliver to the DISTRICT the Performance Bond and Payment Bond, all within **five (5) calendar days** after award of contract, and that the work under the contract shall be commenced by the undersigned bidder, if awarded the contract, by the start date provided in the DISTRICT's Notice to Proceed, and shall be completed by the CONTRACTOR in the time specified in the contract documents.

11. Notices:

All notices or other correspondence should be addressed to the undersigned at the address stated below:

The names of all persons interested in the foregoing proposal as principals are as follows:

(IMPORTANT NOTICE: If bidder or other interested person is a corporation, state the legal name of such corporation, as well as the names of the president, secretary, treasurer, and manager thereof; if a co-partnership, state the true names of the firm, as well as the names of all individual co-partners comprising the firm; if bidder or other interested person is an individual, state the first and last names in full.)

12. Protest Procedures:

If there is a bid protest, the grounds shall be submitted as set forth in the Instructions to Bidders.

13. CONTRACTOR's License:

a. The undersigned bidder shall be licensed and shall provide the following California CONTRACTOR's license information:

License Number:	
License expiration date:	
Name on License:	
Class of License:	
DIR Registration Number:	

b. If the bidder is a joint venture, each member of the joint venture must include the above information.

14. Time is of the Essence:

Time is of the essence regarding this contract, therefore, in the event the bidder to whom the Contract is awarded fails or refuses to post the required bonds and return executed copies of the Agreement form within **five (5) calendar days** from the date of receiving the Notice of Award, the DISTRICT may declare the bidder's bid deposit or bond forfeited as damages.

15. Declaration:

The bidder declares that he/she has carefully examined the location of the proposed work, that he/she has examined the Contract Documents, including the Plans, General Conditions of the contract, Supplemental Conditions, Addenda, and Specifications, all other documents issued to bidders and read the accompanying instructions to bidders, and hereby proposes and agrees, if this proposal is accepted, to furnish all materials and do all work required to complete the said work in accordance with the Contract Documents, in the time and manner therein prescribed for the unit cost and lump sum amounts set forth in this Bid Form.

16. Debarment:

In addition to seeking remedies for False Claims under Government Code Section 12650 et seq. and Penal Code Section 72, the DISTRICT may debar a CONTRACTOR pursuant to Article 15 of the General Conditions if the Board, or the Board may designate a hearing officer who, in his or her discretion, finds the CONTRACTOR has done any of the following:

- a. Intentionally or with reckless disregard, violated any term of a contract with the DISTRICT;
- b. Committed an act or omission which reflects on the CONTRACTOR's quality, fitness or capacity to perform work for the DISTRICT;
- c. Committed an act or offense which indicates a lack of business integrity or business honesty; or,
- d. Made or submitted a false claim against the DISTRICT or any other public entity (See Government Code Sections 12650, et. seq., and Penal Code Section 72)

17. Designation of Subcontractors:

In compliance with the Subletting and Subcontracting Fair Practices Act (California Public Contract Code Sections 4100 et. seq.) and any amendments thereof, each bidder shall list subcontractors on the DISTRICT's form Subcontractor list. This subcontractor list shall be submitted with the bid and is a required form.

18. Bid Certification

I agree to receive service of notices at the e-mail address listed below.

I, the below-indicated bidder, declare under penalty of perjury that the information provided and representations made in this bid are true and correct.

Proper Name of Company	
Name of Bidder Representative	
Street Address	
City, State, and Zip	
Phone Number	Fax Number
E-mail	
Signature of Authorized Bidder Representative	Date:
Signatory Name & Title (Printed)	

NOTE: If bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of authorized officers or agents and the document shall bear the corporate seal; if bidder is a partnership, the true name of the firm shall be set forth above, together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed above.

All signatures must be made in permanent blue ink.

SUBMITTAL / SHOP DRAWING TRANSMITTAL

To:	Ruhnau Clarke Architects		Contractor's Submittal No.
Attn:	Construction Dept.		
Contractor:		Project Name:	Davidson ES Entry Modifications
Street:		RCA's Project No.	1-78-26
City, State:		Subcontractor:	

CONTRACTOR TO FILL OUT THE FOLLOWING COVERING ONE COMPLETE SECTION OF THE SPECIFICATIONS ONLY:

Spe	cification Section #:	Section Title:		
	Initial Submittal	Scheduled Date of Submittal		
	1st Resubmittal	Scheduled Date of Submittal Return		
	Resubmittal	Date Sent		
	Submittal was a previously approved substitution.	Number of Copies		
	Approved Substitution Request Transmittal Form is enclosed.	Number of Samples		

CONT	RACTOR COMPLETE EITHER (A) OR (B) FOLLOWING, <u>CHECK</u> ONE:	CONSTRUCTION MANAGERS CERTIFICATION
(A)	WE HAVE VERIFIED THAT THE MATERIAL OR EQUIPMENT CONTAINED IN THIS SUBMITTAL MEETS ALL THE REQUIREMENTS SPECIFIED OR SHOWN (NO EXCEPTIONS).	THIS IS TO CERTIFY THAT THE CONSTRUCTION MANAGER IS REASONABLY CERTAIN THAT THE MATERIAL SPECIFIED IN THIS SUBMITTAL MEETS THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND THE SUBMITTAL IS COMPLETE PER THE CONTRACT DOCUMENTS.
		SIGNATURE:
		CONTRACTORS CERTIFICATION
(B)	WE HAVE VERIFIED THAT THE MATERIAL OR EQUIPMENT CONTAINED IN THIS SUBMITTAL MEETS ALL THE REQUIREMENTS SPECIFIED OR SHOWN, EXCEPT FOR THE FOLLOWING DEVIATIONS (LIST DEVIATIONS ON AN ATTACHED SHEET OR INDICATE DEVIATIONS CLEARLY ON SHOP DRAWINGS OR SUBMITTALS).	THIS IS TO CERTIFY THAT THE CONTRACTOR IS REASONABLY CERTAIN THAT THE MATERIAL SPECIFIED IN THIS SUBMITTAL MEETS THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
		SIGNATURE:

ARCHITECT'S USE ONLY BELOW THIS LINE.			
Action:			
□ No Exception Taken □ Make C	orrections Noted	Rejected/Resubmit	Revise and Resubmit
Comments:	Date	Received By RRC:	
	Date	Sent to Consultant:	
		Structural	
		Mechanical	
		Electrical	
		Other	
	Date	Received From:	
	Cons	ultant	
	No. c	of Copies Received	
Final Distribution: Contractor	Inspector	District/P.M.	Architect
Final Distribution Date:			

SECTION 07 01 50.20 ROOFING, RESTORATION, PATCH, AND REPAIR

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Partial removal of existing roofing system in preparation for new penetrations.
- B. Patching and repair shall not void or reduce Contractor's and manufacturer's warranty of existing roofing. Removal of existing roofing and repair is to be done by the Roofing Contractor in which the roofing system was originally installed.

1.02 RELATED REQUIREMENTS

- A. Section 06 10 00 Rough Carpentry: Wood framing, plywood sheathing, wood curbs, cants, nailers, blocking and backing.
- B. Section 07 62 00 Sheet Metal Flashing and Trim: Counterflashings, reglets,.
- C. Division 22 Plumbing: Roof drains, plumbing items penetrating roofing membrane.
- D. Division 23 Heating, Ventilation and Air-Conditioning (HVAC): Roof mounted equipment, curbs, and ducts penetrating roofing membrane.
- E. Division 26 Electrical.
 - 1. Conduit penetrating roofing membrane.

1.03 REFERENCE STANDARDS

- A. ASTM C208 Standard Specification for Cellulosic Fiber Insulating Board; 2012.
- B. ASTM E108 Standard Test Methods for Fire Tests of Roof Coverings; 2017.
- C. UL (DIR) Online Certifications Directory; Current Edition.
- D. NRCA ML104 The NRCA Roofing and Waterproofing Manual; Fifth Edition, with interim updates.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate with affected mechanical and electrical work associated with roof penetrations.
- B. Preinstallation Meeting: Convene two weeks before starting work of this section.
 - 1. Attendance is mandatory at conference required in section specifying new roofing installation.
 - a. Require attendance by Contractor's superintendent and other supervisory and quality control personnel having responsibility for roofing, supervisory personnel of roofing installer and, if required for warranty provisions, representative of roofing products manufacturer.
 - b. Owner Representative, testing and inspection agency (if engaged by District), District's insurance underwriter (if necessary, at District's option), and Architect (if authorized by District) will attend.

- c. At Contractor's option, installers of each component of related Work, including deck or substrate construction, rooftop equipment, penetrations of roof deck, and other Work integral with or adjacent to roofing may attend.
- d. If required, attendance shall include Authority Having Jurisdiction (AHJ). Contractor shall verify requirement with Authority Having Jurisdiction (AHJ) and arrange for attendance.
- 2. Establish at pre-bid job walk, number of layers to be removed and reconfirm at preinstallation conference.
- 3. See new roofing installation section for additional information.
- 4. Agenda items specific to patch and repair.
 - a. Review Drawings and Specifications for suitability for application of roofing system. Review application procedures and coordination required with related Work.
 - 1) Discuss changes and deviations from Drawings and Specifications, if any, recommended or required.
 - b. Walk roof areas to review and discuss substrate preparation including repair of unacceptable surfaces, roof drainage, penetrations, equipment curbs, and work performed by other trades which requires coordination with roofing system.
 - c. Review Contract Document requirements and submittals for roofing system, including roofing schedule, inspection and testing, and environmental conditions.
 - 1) Identify which governing regulations or insurance requirements will affect roofing system installation.
 - d. Discuss anticipated weather, as well as procedures for responding to unacceptable weather, including using temporary roofing.
 - 1) Temporary roofing, if necessary, will be added to scope of the Work by contract modification (change order or construction change directive), with acceptable adjustment in Contract Time and Contract Sum.
 - e. Document discussions in writing, including actions required, and distribute copy of report to each meeting participant.
 - f. Attendance by Owner Representative, Architect and independent testing and inspection agency shall not relieve Contractor of sole responsibility for means, methods, techniques and sequence of construction, in accordance with provisions of the Bidding and Contract Requirements.
- C. Schedule work to coincide with commencement of installation of new roofing system.

1.05 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Submit for each type of material.
- C. Shop Drawings: Indicate size, configuration, and installation details.
- D. Preconstruction Test Reports.
- E. Materials Removal Company Qualification Statement.
- F. Installer's Qualification Statement.
- G. Preconstruction Testing Agency Qualification Statement.

- H. Certification required for existing buildings to be re-roofed per Chapter 3 of Part 1 of Division 2 of the Public Contract Code Section 1 Section 3006(b):
 - 1. I, ________(Name), ________(Name of Employer), certify that I have not offered, given, or agreed to give, received, accepted, or agreed to accept, any gift, contribution, or any financial incentive whatsoever to or from any person in connection with the roof project contract. As used in this certification, "person" means any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals. Furthermore, I _______ (Name), _______ (Name of Employer), certify that I do not have, and throughout the duration of the contract, I will not have, any financial relationship in connection with the performance of this contract with any architect, engineer, roofing consultant, materials manufacturer, distributor, or vendor that is not disclosed below.
 - 2. I _____ (Name), _____ (Name of Employer), have the following financial relationships with an architect, engineer, roofing consultant, materials manufacturer, distributor, or vendor, or other person in connection with the following roof project contract:

Name and Address of Building, Contract Date and Number

3. I certify that to the best of my knowledge, the contents of this disclosure are true, or are believed to be true.

(Signature) (Date
(Print Name)
(Print Name of Employer)

4. Submit this certification to District, Owner Representative, and Architect.

1.06 QUALITY ASSURANCE

- A. Comply with Title 24 Part 2 California Building Code Sections 1504 Performance Requirements, 1505 Fire Classification and 1507 Requirements for Roof Coverings; and Part 6 -California Energy Code requirements
- B. Materials Removal Firm Qualifications: Company specializing in performing the work of this section with minimum five years of documented experience.
- C. Industry Standards:
 - 1. Work specified in this Section shall comply to manufacturer's product data and application instructions.
 - 2. Work shall also conform to recommended practices and details published in NRCA Roofing and Waterproofing Manual, NRCA ML104 and recommended practices and details of Western States Roofing Contractors Association (WSRCA), where such practices and details are more stringent.
- D. Testing and Inspection:
 - 1. At District's option, services of an independent inspection and testing agency may be obtained. Costs of this service will be paid for by District.
 - 2. Contractor shall cooperate with independent testing and inspection agency.

1.07 SCHEDULING

A. Remove only existing roofing materials that can be replaced with new materials as the weather will permit.

1.08 FIELD CONDITIONS

- A. Do not remove existing roofing membrane when weather conditions threaten the integrity of the building contents or intended continued occupancy.
- B. Maintain continuous temporary protection prior to and during installation of new roofing system.

1.09 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces affected by reroofing, by methods and with materials acceptable to warrantor.
 - 1. Notify warrantor of existing roofing system before proceeding, and upon completion of reroofing.
 - 2. Obtain documentation verifying that existing roofing system has been inspected by warrantor and warranty remains in effect. Submit documentation at Project closeout.

PART 2 PRODUCTS

2.01 SYSTEM DESCRIPTION

- A. Roofing Assembly Requirements:
 - 1. External Fire Exposure Classification: ASTM E108 Class A, UL (DIR) or Warnock Hersey listed.
- B. Indicated Roof Areas: Patch and repair existing roofing, perimeter flashings, base flashings, counter flashings, vent stack flashings, roofing membrane, and insulation where required for the installation of new roof mounted equipment.
- C. Patch and repair roofing as necessary to provide complete, weathertight installation conforming to referenced industry standards and as necessary to accommodate new Work.
- D. Contract Drawings and Specifications:
 - 1. Contract Drawings and Specifications are diagrammatic and of a general nature only.
 - 2. Materials manufacturer's specifications for roofing and related flashings shall govern Work as if set forth herein, except as specifically indicated or where more stringent requirements are specified or required by Authority Having Jurisdiction (AHJ).
 - 3. All Work shall be completed as required to obtain specified warranty and guarantee.
- E. Design Review:
 - 1. Contractor, roofing installer and manufacturer's representative of the original roofing installation (if known or or identifiable) shall review Drawings and Specifications.
 - 2. Obtain confirmation from roofing installer and manufacturer of original roofing (if known or identifiable) that selected roofing materials for patching and repair are proper, compatible and adequate for the Project and that conditions and details indicated and specified do not conflict with requirements and recommendations of manufacturer.

Addendum 2

2.02 MATERIALS

- A. Temporary Protection: Sheet polyethylene; provide weights to retain sheeting in position.
 - 1. Provide thickness sufficient to prevent tearing or damage during use.
- B. Protection Board: ASTM C208 cellulose fiber board, one face finished with mineral fiber, asphalt and kraft paper.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing site conditions.
- B. Verify that existing roof surface is clear and ready for work of this section.
 - 1. Verify that roof deck is structurally sound to support live and dead load requirements of roofing system and sufficiently rigid to support construction traffic.

3.02 PREPARATION

- A. Coordination: Coordinate patching and repairs of roofing with installation of penetrations, supports and other adjoining new construction which affects existing roofing.
- B. Deck Preparation:
 - 1. Clean and prepare roof deck in accordance with roofing system manufacturer's instructions and recommendations.
 - 2. Correct substrate surfaces which are unacceptable to installer.
- C. Sweep roof surface clean of loose matter.
- D. Remove loose refuse and dispose off site.
 - 1. Free Fall Maximum: 8 feet, provide enclosed chutes for higher fall.
 - 2. Do not use District's disposal system.
- E. Deck Condition: Firm, smooth, clean and sufficiently dry to suit roofing manufacturer's requirements.
 - 1. Conduct moisture test of deck and surrounding roofing.
 - 2. Do not proceed with roofing application until deck and surrounding materials are dry.

3.03 MATERIAL REMOVAL

- A. Remove only existing roofing materials that can be replaced with new materials as the weather will permit.
- B. Remove metal counter flashings.
- C. Remove damaged portions of roofing membrane, perimeter base flashings, flashings around roof protrusions, pitch pans and pockets.
- D. Cut and lay flat any membrane blisters.
- E. Remove damaged insulation and fasteners, cant strips, blocking .
- F. Remove sheathing paper and underlay..
- G. Repair existing underlying deck surface to provide smooth working surface for new roof system.

3.04 TEMPORARY PROTECTION

- A. Provide temporary protective sheeting over uncovered deck surfaces.
- B. Turn sheeting up and over parapets and curbing. Retain sheeting in position with weights.
- C. Provide for surface drainage from sheeting to existing drainage facilities.
- D. Do not permit traffic over unprotected or repaired deck surface.

3.05 PATCHING AND REPAIRS

- A. General:
 - 1. It is intended to leave existing roofing intact as much as feasible.
 - a. Roofing Work is intended to be patching and repair of portions of existing roofing due to new:
 - 1) Structural supports.
 - 2) Penetrations.
 - 3) Heating, ventilating and air conditioning (HVAC) equipment.
 - 4) Electrical system penetrations.
 - b. Include repairs of areas damaged as result of construction activities.
 - 2. Comply with instructions and recommendations of manufacturer of existing roofing system for making patches and repairs.
 - 3. Comply also with recommended practices of referenced industry standards.
 - 4. Protect other Work from spillage of roofing materials and prevent materials from entering or clogging drains and conductors. Replace and restore other construction damaged or degraded by roofing Work.
 - 5. Apply roofing materials in accordance with NRCA Roofing and Waterproofing Manual and published details and recommendations of Western States Roofing Contractors Association (WSRCA).
 - 6. Keep roofing materials dry before and during application. Do not permit phased construction.
- B. Flashing Replacement: Entire sheet of flashing membrane is to be adhered to vertical substrate and hot-air welded to the secured field membrane.
- C. Penetrations:
 - 1. Coordinate roofing Work with plumbing, mechanical and electrical Work and other Work involving penetrations of roofing membrane.
 - 2. Provide pipe and conduit penetrations as indicated on Drawings, or if more stringent, as detailed in NRCA Roofing and Waterproofing Manual.
 - 3. Verify that penetrations through roof are adequately separated by a minimum of 18 inches from each other, away from curbs, platforms, sleepers and walls and are also located a minimum of 24 inches beyond all waterways.
- D. Other Roofing Accessories: Install other accessories in accordance with manufacturer's instructions and recommendations, and NRCA Construction Details, as applicable.
- E. Crickets and Tapered Areas: Install to provide positive slope at proper transitions at changes in roof plane.
- F. Flashing and Sheet Metal Work: Set and flash in integrated sheet metal.

3.06 FIELD QUALITY CONTROL

- A. Independent agency inspection and testing will be provided under provisions of Section 01 40 00.
- B. The drawings identify the approximate limits to material removal.
- C. Testing will identify the condition of existing materials and their reuse, repair or removal.
- D. Test Reports: Indicate existing insulation moisture content and existing roof system quality.

3.07 PROTECTION

- A. Provide temporary protective sheeting over uncovered deck surfaces.
- B. Turn sheeting up and over parapets and curbing. Retain sheeting in position with weights.
- C. Provide for surface drainage from sheeting to existing drainage facilities.
- D. Do not permit traffic over unprotected or repaired deck surface.

3.08 SCHEDULES

- A. Roof Areas as Indicated: Remove, where required, existing perimeter flashings, base flashings, counter flashings, vent stack flashings, roofing membrane, and insulation.
- B. Remove indicated roof mounted mechanical equipment and electrical equipment.

END OF SECTION

SECTION 08 71 00

DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Finish hardware except as otherwise specified or specifically omitted herein.
- B. Related Sections:
 - 1. Section 06 20 00 Finish Carpentry.
 - 2. Section 08 11 13 Hollow Metal Doors and Frames.
 - 3. Section 32 31 13 Chain Link Fences and Gates.
- C. Specific Omissions: Hardware for the following is specified or indicated elsewhere.
 - 1. Windows.
 - 2. Cabinets and locks.
 - 3. Signs.
 - 4. Toilet accessories.
 - 5. Installation.
 - 6. Rough hardware.

1.2 REFERENCES

- A. Published specifications, standards, tests, or recommended methods of trade, industry, or governmental organizations apply to Work of this Section where sited by abbreviations noted below (latest editions apply unless noted otherwise).
- B. ADA Americans with Disabilities Act Standards for Accessible Design.
- C. ANSI American National Standards Institute.
- D. BHMA Builders Hardware Manufacturers Association.
- E. CBC California Building Code, (CCR) California Code of Regulations, Title 24, Part 2, California State Accessibility Standards.
- F. DSA Division of the State Architect.
- G. NFPA 80 Fire Doors and Windows.
- H. UL Underwriters Laboratories.

1.3 SUBSTITUTIONS & SUBMITTALS

- A. Requests for substitutions must be made in writing 10 days prior to bid date to allow architect to issue an addendum. If proposing a substitute, submit that product data attached to one showing specified item and indicate savings to be made. Provide sample if requested. No other substitutions will be allowed.
 - 1. Items listed with no substitute manufacturers have been requested by the Owner to match existing.

- B. Submit six copies of schedule within 4 weeks after project has been awarded. Organize schedule into "Hardware Sets" with an index of doors and heading, indicating complete designations of every item required for each door or opening. Include the following information:
 - 1. Type, style, function, size, quantity and finish of each hardware item. Use BHMA finish codes as per ANSI A156.18.
 - 2. Name, part number and manufacturer of each item.
 - 3. Fastenings and other pertinent information.
 - 4. Location of hardware set cross referenced to indications on drawings both on floor plans and in door schedule.
 - 5. Explanation of all abbreviations, symbols, and codes contained in schedule.
 - 6. Mounting locations for hardware.
 - 7. Door and frame sizes and materials.

1.4 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Obtain each kind of hardware (latch and lock sets, exit devices, hinges, and closers) from only one manufacture, although several may be indicated as offering products complying with requirements.
 - 2. Hardware supplier shall be a direct factory contract supplier who has in his employment a certified hardware consultant (AHC) who is available at all reasonable times during the course of the work for project hardware consultation to the District, Architect, and Contractor.
- B. Schedule Designations: Except as otherwise indicated, the use of one manufacturer's numeric designation system in schedules does not imply that another manufacturer's products will not be acceptable, unless they are not equal in design, size, weight, finish, function, or other quality of significance. See 1.3 A for substitutions.

1.5 REGULATORY REQUIREMENTS

- A. Fire-Rated Openings: Comply with CBC Section 716 and NFPA No. 80. Provide only hardware tested and listed by UL for the type and size of each door required, which complies with the requirements of the door and frame labels.
 - 1. Where exit devices are required on fire rated doors, provide supplementary marking on door UL label indicating "Fire Door to be Equipped with Fire Exit Hardware", and provide UL label on exit device indicating "Fire Exit Hardware".
 - 2. Exit device touchpad shall be compliant with State Fire Marshall Standard 12-10-3, Section 12-10-302.
- B. Conform to applicable requirements of the Americans with Disabilities Act Standards for Accessible Design regarding accessibility requirements for door and entrance hardware.
- C. Doors and doorways that are part of an accessible route shall comply with CBC Section 11B-404.
- D. The clear opening width for a door shall be 32 inches minimum. For a swinging door it shall be measured between the face of the door and the stop, with the door open 90 degrees. There shall be no projections into the opening below 34 inches and 4 inches maximum projections into the opening between 34 inches and 80 inches above the finish floor or ground. Door closers and stops shall be permitted to be 78 inches minimum above the finish floor or ground. CBC Section 11B-404.2.3.

- E. Handles, pulls, latches, locks, and other operable parts on accessible doors shall comply with CBC Section 11B-309.4 and be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. Operable parts of such hardware shall be 34 inches minimum and 44 inches maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides. CBC Section 11B-404.2.7.
- F. The force for pushing or pulling open a door shall be as follows: CBC Section 11B-404.2.9.
 - 1. Interior hinged doors, sliding or folding doors, and exterior hinged doors: 5 lbs. (22.2N) maximum.
 - 2. Required fire doors: the minimum opening force allowable by the DSA Authority, not to exceed 15 lbs. (66.7N). These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.
 - 3. The force required for activating any operable parts, such as lever hardware, or disengaging other devices shall be 5 lbs. (22.2N) maximum to comply with CBC Section 11B-309.4.
- G. Door closing speeds shall be as follows: CBC Section 11B-404.2.8.
 - 1. Closer shall be adjusted so that the required time to move a door from an open position of 90 degrees to a position of 12 degrees from the latch is 5 seconds minimum.
 - 2. Spring hinges shall be adjusted so that the required time to move a door from an open position of 70 degrees to the closed position is 1.5 seconds minimum.
- H. Thresholds shall comply with CBC Section 11B-404.2.5.
- I. Floor stops shall not be located in the path of travel and 4 inches maximum from walls.
- J. Hardware (including exit devices) shall not be provided with "Night Latch" (NL) function for any accessible doors or gates unless the following conditions are met: (Such conditions must be clearly demonstrated and indicated in the specifications)
 - 1. Such hardware has a 'dogging' feature.
 - 2. It is dogged during the time the facility is open.
 - 3. Such 'dogging' operation is performed only by employees as their job function (non-public use).
- K. Pair of doors: Limit swing of one leaf to 90 degrees so that a clear floor space is provided beyond the arc of the swing for the wall-mounted tactile sign. CBC Section 11B-703.4.2.1.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Acceptance at Site: Individually package each unit of finish hardware complete with proper fastening and appurtenances, clearly marked on the outside to indicate contents and specific locations in the Work.
- B. Deliver packaged hardware items at the times and to the locations (shop or field) for installation, as directed by the Contractor.

1.7 PROJECT CONDITIONS

A. Coordination: Coordinate hardware with other work. Furnish hardware items of proper design for use on doors and frames of the thickness, profile, swing, security and similar requirements

indicated, as necessary for proper installation and function, regardless of omissions or conflicts in the information on the Contract Documents.

B. Upon request, check the Shop Drawings for doors and entrances to confirm that adequate provisions will be made for the proper installation of hardware.

1.8 WARRANTY

- A. Provide guarantee from hardware supplier as follows:
 - 1. Closers: Five years, except electronic closers, two years.
 - 2. Exit Devices: Two years.
 - 3. All other Hardware: Two years.

PART 2 - MATERIALS

2.1 MANUFACTURERS

A. Approval of manufacturers other than those listed shall be in accordance with paragraph 1.3 A.

ltem:	Manufacturer:	Acceptable Substitute:
Continuous Hinges	<u>McKinney</u> lves	<u>lves</u> McKinney, Hager
Butt Hinges	<u>McKinney</u> lves	IvesMcKinney, Hager
Locksets	SchlageMarks	Owners standard
Cylinders	Sargent	Owners standard
Exit Devices	Von DuprinSargent	Owners standard
Surface Closers	LCNSargent	Owners standardLCN 4040XP
		<u>series</u>
Anti Vandal Pulls	<u>Trimco</u> lves	<u>series</u> Rockwood, <u>Ives</u> ∓rimco
Anti Vandal Pulls Kick Plates	<u>Trimcolves</u> Trimco	<u>series</u> Rockwood, <u>Ives</u> ∓rimco Rockwood, Ives
Anti Vandal Pulls Kick Plates Door Stops	Trimcolves Trimco Trimco	series Rockwood, <u>Ives</u> ∓rimco Rockwood, Ives Rockwood, Ives
Anti Vandal Pulls Kick Plates Door Stops Gate Closers	Trimco Trimco Trimco Locinox	series Rockwood, lves Rockwood, lves Rockwood, lves As specified

- B. Furnish items of hardware required to complete the work in accordance with these specifications and the manufacturers' instructions. Items of hardware not specified shall be provided even though inadvertently omitted from this specification. Items shall be of equal quality and type.
- C. Where the exact types of hardware specified are not adaptable to the finished shape or size of the members requiring hardware, furnish suitable types having as nearly as practicable the same operation and quality as the type specified, subject to Architect's approval.

2.2 MATERIALS

A. Locksets: Locksets and latchsets shall be as specified. Strikes shall be 16 gage curved steel, bronze or brass with 1" deep box construction, and have lips of sufficient length to clear trim and protect clothing.

- 1. Comply with requirements of local security ordinances.
- 2. Lock Series and Design: <u>Schlage NDMarks 195</u> series <u>RhodesAmerican</u> lever.
- B. Butt Hinges: Outswinging exterior doors shall have nonremovable (NRP) pin. Hinge open widths shall be minimum, but of sufficient size to permit door to swing 180 degrees.
 - 1. Furnish 3 hinges per leaf to 7 foot, 6 inch height. Add one for each additional 30 inches in height or fraction thereof.
 - 2. Provide 5 inch heavy weight hinges on doors over 3 feet, 5 inches width.
- C. Continuous Hinges: Hinge open widths shall be minimum, but of sufficient size to permit door to swing 180 degrees. Where necessary to maintain door clearance at jamb trim, frame conditions, door reveals, and similar conditions, furnish wide throw hinges as approved by the Architect. Where door is indicated as having fire resistance rating, provide UL listed and labeled hardware.
- D. Exit Devices: Furnish devices at wood doors with sex bolts unless otherwise specified. Lever handle trim shall match locksets.
 - 1. Provide glass bead kits of proper thickness where the rail assembly of the exit device crosses a lite.
- E. Surface Door Closers: Full rack and pinion type with removable non-ferrous case. Place closers inside building, stairs, and rooms. Closers shall be non-handed, non-sized, and installed to permit door to swing 180 degrees.
 - 1. Flush transom offset brackets shall be used where parallel arm closers are listed for doors with fixed panels over.
 - 2. Provide drop brackets, shoe supports, and blade stop spacers as required at narrow top rails
- F. Protection Plates: Provide kick, armor, or mop plates with four beveled edges, .050 inches minimum thickness, height called for in schedule by width less 2-inches. Furnish with machine or wood screws of bronze or stainless steel to match other hardware.
- G. Floor Stops: Floor mounted door stops are prohibited where located in the path of travel. Where provided, install maximum 4 inches from wall surface.
- H. Seals: Seals shall be finished to match adjacent frame color. UL label shall be applied on all rated doors.
- I. Screws: Exposed screws shall be Phillips head. Do not use self-drilling, self-tapping screws, unless furnished by hardware manufacturer for the specific condition or for mounting flat-goods such as push plates and kick plates.
- J. Silencers: Furnish silencers for interior hollow metal frames, 3 for single doors, 2 for pairs of doors.
- K. Thresholds: Change in level between 1/4 inch and 1/2 inch shall be beveled with a slope no greater than 1 unit vertical to 2 units horizontal (50 percent slope). The floor or landing shall not be more than 1/2 inch lower than the threshold of the doorway.

2.3 FINISH

A. Generally to be BHMA 626 Satin Chromium.

- 1. Areas using BHMA 626 shall have push, pulls and kick plates of BHMA 630, Satin Stainless Steel, unless otherwise noted.
- B. Factory paint door closers to match other hardware, unless otherwise noted.
- C. Aluminum items shall be finished to match predominant adjacent material. Seals to coordinate with frame color.

2.4 **KEYING REQUIREMENTS**

- A. Contact the District Locksmith with San Bernardino City Unified School District for keying requirements. Keying system shall be coordinated with the District and approved by District's representative in writing. Furnish construction key system in accordance with lock manufacturers' standard.
 - 1. Key system shall be Sargent 'A' series keyway.
- B. For protection of the District, key cylinders at the factory of the cylinder manufacturer where permanent records are maintained. Permanently inscribe each key with number that identifies cylinder manufacturer key symbol, and notation "DO NOT DUPLICATE".
- C. Keying Schedule: Submit three copies of separate detailed schedule indicating clearly how the District's final instructions on keying of locks have been fulfilled.

PART 3 - EXECUTION

3.1 HARDWARE LOCATIONS

- A. Lockset: 34 to 44 inches above finished floor. Verify manufacturers' template with door design.
- B. Exit Device: 36 to 44 inches above finished floor. Verify manufacturers' template with door design.
- C. Door Pull: 40 inches from bottom of door to center of pull.
- D. Floor Stop: Installed at a maximum of 4 inches from the face of the wall or partition.
- E. Conform to CCR, Title 24, Part 2, and ADA for positioning requirements for accessibility.

3.2 INSTALLATION

- A. Pre-Installation Meetings: Initiate and conduct with supplier, installer, and related trades, coordinate materials and techniques, and sequence complex hardware items and systems installation. Include manufacturers' representatives of locks, panic hardware, and door closers in the meetings.
- B. Install each hardware item per manufacturer's instructions and recommendations. Do not install surface mounted items until finishes have been completed on the substrate. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- C. Set exterior door thresholds with full-width bead of elastomeric sealant on each point of contact with floor, providing a continuous weather seal. Anchor thresholds with stainless steel countersunk screws.

3.3 ADJUSTING

- A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly.
- B. Inspection: Hardware supplier shall inspect hardware furnished within 10 days of contractors request and include with his guarantee a statement that this has been accomplished. Inspector or Contractor will sign off the hardware as being complete and correctly installed and adjusted. Further corrections of defective material shall be the responsibility of his representative.

3.4 SCHEDULE OF DOOR HARDWARE

A. Legend of listed manufacturers:

IVE	lves
LCN	LCN
LOC	Locinox
<u>MCK</u>	<u>McKinney</u>
<u>MRK</u>	<u>Marks</u>
PEM	Pemko
SAR	Sargent
SCH	Schlage
TRM	Trimco
VON	Von Duprin

- B. The last column in the Hardware Schedule refers to the manufacturer listed above.
- C. The Door Schedule on the Drawings indicates which Hardware Set is used with each door.
- D. Schedule of Door Hardware:

See next page.

HW-1 Each pair door to have

2	CONTINUOUS HINGE	224HDMCK-25HD	628	IVE MCK
1	REMOVABLE MULLION	KR4954 x MT54<u>L980S</u>	689	VONSAR
1	EXIT DEVICE	AX-PA-98NL-OP x 110NL	626	
 VON5E	SL-5CH-8804 x L/TRIM	630	SAR	
1	EXIT DEVICE	AX-PA-98EO	626	
 VON5E	8L-5CH-8810 x L/TRIM	630	SAR	
1	MORTISE CYLINDER	42	626	SAR
1	RIM CYLINDER	34	626	SAR
1	ANTI VANDAL PULL	VR910NL1097HA-SP	630	IVE TRM
1	ANTI VANDAL PULL	VR910DT1097HA-SP-NC	630	IVE TRM
2	SURFACE CLOSER	4040XP-SCUSH x ST1595351-CPS	689	LCNSAR
2	KICK PLATE	K0050 - 10 x 2 LDW x B4E	630	TRM
1	MULLION SEAL	5110	BLK	PEM
1 SET	DOOR SEALS	2893V HEAD & JAMBS	628	PEM

2	DOOR SWEEP	57V	628	PEM
1	THRESHOLD	PER SILL DETAIL	628	PEM
Note:	Install door seals before closer			

HW-2

Each single door to have

1	CONTINUOUS HINGE	224HD MCK-25HD	628	IVE MCK
1	EXIT DEVICE	AX-PA-98NL-OP5BL-5CH-8804 x 110NL	626	
	TRIM	630	SAR	
1	RIM CYLINDER	34	626	SAR
1	ANTI VANDAL PULL	VR910NL1097HA-SP	630	IVETRM
1	SURFACE CLOSER	4040XP-HEDA x ST1944 <u>351-PH10</u>	689	LCNSAR
1	KICK PLATE	K0050 - 10 x 2 LDW x B4E	630	TRM
1	FLOOR STOP	1209	626	TRM
1 SET	DOOR SEALS	2893V HEAD & JAMBS	628	PEM
1	DOOR SWEEP	57V	628	PEM
1	THRESHOLD	PER SILL DETAIL	628	PEM
Note:	Install door seals before closer a	and rim strike		
Note:	Adjust exit device backset to all	ow<u>compensate</u> for <u>strike</u> jamb seal		

HW-3

Each single door to have

3	HINGE	5BB1<u>TA2714</u> - 4.5 x 4.5	652	HVEMCK
1	LOCKSET	ND70LD x RHO x K510-066195S-F8-SL9-S1	626	SCHMRK
1	LEVER CYLINDER	13-3266	626	SAR
1	SURFACE CLOSER	4040XP <u>351</u> -H	689	LCNSAR
1	KICK PLATE	K0050 - 10 x 2 LDW x B4E	630	TRM
1	FLOOR STOP	1214	626	TRM
3	SILENCERS	1229A	GRY	TRM

HW-4

Each single door to have

3	HINGE	5BB1<u>TA2714</u> - 4.5 x 4.5	652	IVE MCK
1	PRIVACY	ND40S x RHO x K510-066 <u>195L-S1</u>	626	SCH <u>MRK</u>
1	SURFACE CLOSER	4040XP-REG <u>351-0</u>	689	LCNSAR
1	KICK PLATE	K0050 - 10 x 2 LDW x B4E	630	TRM
1	MOP PLATE	KM050 - 6 x 1 LDW x B4E	630	TRM
1	WALL BUMPER	1270CVPV	626	TRM
1	COAT HOOK	3071	626	TRM
3	SILENCERS	1229A	GRY	TRM

HW-SG1 Each pair gate to have

1	EXIT DEVICE	AX-PA-98NL-OP5BL-5CH-8804 x 110NLL/TR	M x WH	626
 <u>VON630</u>	<u>) SAR</u>			
1	EXIT DEVICE	AX-PA-98EO5BL-5CH-8810 x L/TRIM x WH	626	<u>VON630</u>
 SAR				
1	RIM CYLINDER	34	626	SAR
1	ANTI VANDAL PULL	VR910NL1097HA-SP	630	IVE TRM
1	ANTI VANDAL PULL	VR910DT1097HA-SP-NC	630	IVETRM
2	GATE <u>HINGE/</u> CLOSER	MAMMOTH-180 x CLB -MAMMOTH	ALU	LOC
Note:	Balance of material provided by Ch	ain Link Gate Manufacturer		

END OF SECTION

SECTION 08 80 00 GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Insulating glass units.

BB. Plastic films.

C. Glazing compounds and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 07 25 00 Weather Barriers.
- B. Section 07 92 00 Joint Sealants: Sealants for other than glazing purposes.
- C. Section 08 43 13 Aluminum-Framed Storefronts: Glazing furnished as part of storefront assembly.

1.03 REFERENCE STANDARDS

- A. 16 CFR 1201 Safety Standard for Architectural Glazing Materials; current edition.
- B. ANSI Z97.1 American National Standard for Safety Glazing Materials Used in Buildings -Safety Performance Specifications and Methods of Test; 2015.
 - 1. Use 2014 as indicated in 2016 CBC Referenced Standards.
- C. ASCE 7 Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
 - 1. Use 2010 as indicated in 2016 CBC Referenced Standards.
- D. ASTM C864 Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2015).
- E. ASTM C920 Standard Specification for Elastomeric Joint Sealants; 2018.
 - 1. Use 2011 as indicated in 2016 CBC Referenced Standards.
- F. ASTM C1036 Standard Specification for Flat Glass; 2016.
- G. ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.
- H. ASTM C1193 Standard Guide for Use of Joint Sealants; 2016.
- I. ASTM C1376 Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass; 2015.
- J. ASTM E1300 Standard Practice for Determining Load Resistance of Glass in Buildings; 2016.
 - 1. Use 2012ae1 as indicated in 2016 CBC Referenced Standards.
- K. ASTM E2190 Standard Specification for Insulating Glass Unit Performance and Evaluation; 2010.
- L. GANA (GM) GANA Glazing Manual; 2008.
- M. GANA (SM) GANA Sealant Manual; 2008.

- N. GANA (LGRM) Laminated Glazing Reference Manual; 2009.
- O. IGMA TM-3000 North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial & Residential Use; 1990 (2016).
- P. NFRC 100 Procedure for Determining Fenestration Product U-factors; 2017.
- Q. NFRC 200 Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence; 2014, with Errata (2017).
- R. NFRC 300 Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems; 2017.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by each of the affected installers.

1.05 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data on Insulating Glass Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
- C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
- D. Manufacturer's Qualification Statement.
- E. Installer's Qualification Statement.
- F. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in District's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

- A. Perform Work in accordance with GANA (GM), GANA (SM), GANA (LGRM), and IGMA TM-3000 for glazing installation methods.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- C. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience and personnel certified under the National Glass Association's Certified Glass Installer program.
- D. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

1.07 FIELD CONDITIONS

- A. Do not install glazing when ambient temperature is less than 40 degrees F.
- B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.08 WARRANTY

A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

- B. Insulating Glass Units: Provide a five (5) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including providing products to replace failed units.
- C. Remedial Provisions: Upon notification of defects, within the warranty period, party providing warranty or guarantee shall replace the glass and glazing at no cost to District.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Glass Fabricators:
 - 1. Glasswerks Inc.: www.glasswerks.com.
 - 2. GlasPro, Inc.: www.glas-pro.com
 - 3. Viracon, Inc: www.viracon.com.
 - 4. Substitutions: Refer to Section 01 60 00 Product Requirements.
- B. Float Glass Manufacturers:
 - 1. AGC Glass Company North America, Inc: www.us.agc.com.
 - 2. Cardinal Glass Industries: www.cardinalcorp.com.
 - 3. GlasPro, Inc.: www.glas-pro.com
 - 4. Guardian Industries Corp: www.sunguardglass.com.
 - 5. Pilkington North America Inc: www.pilkington.com/na.
 - 6. Vitro Architectural Glass, formerly PPG Industries, Inc: www.vitroglazings.com.
 - 7. Substitutions: Refer to Section 01 60 00 Product Requirements.

2.02 REGULATORY REQUIREMENTS

- A. Comply with the all applicable codes and ordinances, including California Building Code (CBC), Title 24, Part 2, Chapter 24 as amended and adopted by authorities having jurisdiction, and US Consumer Product Safety Commission Standard 16 CFR 1201 CI and CII.
- B. Where safety glass is indicated or required, provide glazing materials that conform to ANSI Z97.1 and CPSC 16 CFR 1201 and are so identified in accordance with CBC Section 2406.3.
- C. Glass Identification:
 - 1. Per CBC Section 2403.1, each light shall bear the manufacturer's label designating the type and thickness of glass.
 - a. When approved by the enforcement agency, labels may be omitted from other than safety glazing materials, provided an affidavit is furnished by the glazing contractor certifying that each light is glazed in accordance with approved plans and specifications.
 - b. Identification of safety glazing material installed in hazardous locations as defined in Section 2406 of this chapter shall be identified by label which will specify the labeler, whether the manufacturer or installer, and state that safety glazing material has been utilized in such installations.
 - c. The label shall be legible and visible from the inside of the building after installation and shall specify that label shall not be removed.

d. Tempered glass shall have an etched manufacturer's label.

2.03 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

- A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
 - 1. Design Pressure: Calculated in accordance with applicable codes.
 - a. Where glass thicknesses are not indicated, provide thickness based on the wind pressures required by the California Building Code (CBC), Title 24, Part 2, 2403 and 2404, wind pressure shall be assumed to have a one minute duration.
 - b. Upon first application of design wind load for the specified durations, probability of breakage shall not exceed 8/1000 for vertical glass.
 - c. Probability of breakage relative to glass thermal stress shall not exceed 8/1000 for vertical glass.
 - 2. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
 - 3. Seismic Loads: Design and size glazing components to withstand seismic loads and sway displacement in accordance with the requirements of ASCE 7.
 - 4. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
 - 5. Glass thicknesses listed are minimum.
- B. Vapor Retarder and Air Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure vapor retarder and air barrier.
 - 1. In conjunction with vapor retarder and joint sealer materials described in other sections.
 - 2. To utilize the inner pane of multiple pane insulating glass units for the continuity of the vapor retarder and air barrier seal.
- C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
 - 1. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
 - 2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
 - 3. Solar Optical Properties: Comply with NFRC 300 test method.

2.04 GLASS MATERIALS

- A. Float Glass: Provide float glass based glazing unless otherwise indicated.
 - 1. Annealed Type: ASTM C1036, Type I Transparent Flat, Class 1 Clear, Quality Q3.
 - 2. Kind HS Heat-Strengthened Type: Complies with ASTM C1048.
 - 3. Kind FT Fully Tempered Type: Complies with ASTM C1048.
 - 4. Fully Tempered Safety Glass: Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.

- a. Where fully tempered is indicated, provide glass that has been tempered by the tong-less horizontal method.
- 5. Impact Resistant Safety Glass: Complies with ANSI Z97.1 Class B, or 16 CFR 1201 Category I criteria.
- 6. Thicknesses: As indicated; provide greater thickness as required for exterior glazing wind load design.

2.05 INSULATING GLASS UNITS

- A. Manufacturers:
 - 1. Any of the manufacturers specified for float glass.
 - 2. Fabricator certified by glass manufacturer for type of glass, coating, and treatment involved and capable of providing specified warranty.
 - 3. AGC Glass North America, Inc: www.agcglass.com/#sle.
 - 4. Cardinal Glass Industries: www.cardinalcorp.com.
 - 5. Glasswerks: glasswerks.com.
 - 6. Guardian Industries Corp: www.sunguardglass.com.
 - 7. Pilkington North America Inc: www.pilkington.com/na.
 - 8. Viracon, Apogee Enterprises, Inc: www.viracon.com.
 - 9. Vitro Architectural Glass, formerly PPG Industries, Inc: www.vitroglazings.com/#sle.
 - 10. Substitutions: Refer to Section 01 60 00 Product Requirements.
- B. Insulating Glass Units: Types as indicated.
 - 1. Durability: Certified by an independent testing agency to comply with ASTM E2190.
 - 2. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
 - 3. Metal Edge Spacers: Aluminum, mitered and spigoted corners.
 - 4. Spacer Color: Black.
 - 5. Edge Seal:
 - a. Single-Sealed System: Provide silicone, polysulfide, or polyurethane sealant as seal applied around perimeter.
 - 6. Color: Black.
 - 7. Purge interpane space with dry air, hermetically sealed.
- C. Insulating Glass Units: Safety glazing.
 - 1. Applications:
 - a. Glazed lites in exterior doors.
 - b. Glazed sidelights and panels next to doors.
 - c. Other locations required by applicable federal, state, and local codes and regulations.
 - d. Other locations indicated on drawings.
 - 2. Space between lites filled with air.

- 3. Glass Type: Same as other vision glazing except use fully tempered float glass for both outboard and inboard lites.
- 4. Total Thickness: 1 inch.
- 5. Glazing Method: Dry glazing method, gasket glazing.

2.06 BASIS OF DESIGN - INSULATING GLASS UNITS

- A. Basis of Design Insulating Glass Units: Vision glazing, with Low-E coating.
 - 1. Applications: Exterior insulating glass glazing unless otherwise indicated.
 - 2. Space between lites filled with air.
 - 3. Total Thickness: 1 inch.
 - 4. Thermal Transmittance (U-Value), Winter Center of Glass: 0.29, nominal.
 - 5. Visible Light Transmittance (VLT): 70 percent, nominal.
 - 6. Solar Heat Gain Coefficient (SHGC): 0.29, nominal.
 - 7. Visible Light Reflectance, Outside: 11 percent, nominal.
 - 8. Glazing Method: Dry glazing method, gasket glazing.
 - 9. Spacer Color: Black.
 - 10. Edge Seal:
 - 11. Color: Black.
 - 12. Purge interpane space with dry air, hermetically sealed.
 - 13. Basis of Design Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle.
 - 14. Outboard Lite: Fully tempered float glass, 1/4 inch thick, minimum.
 - 15. Inboard Lite: Fully tempered float glass, 1/4 inch thick.
 - 16. Other Manufacturers: Provide either the product identified as "Basis of Design" or an equivalent product of another acceptable manufacturer.
 - 17. Substitution Procedures: See Section 01 60 00 Product Requirements.
 - a. For any product not identified as "Basis of Design", submit information as specified for substitutions.

2.07 PLASTIC FILMS

- A. Type GF-1 Decorative Plastic Film: Polyester type.
 - 1. Application: Locations as indicated on drawings.
 - 2. Series Type: Frost.
 - 3. Color: Milky Way.
 - 4. Thickness Without Liner: 0.002 inch.
 - 5. Manufacturers:
 - a. 3M Window Film: #SH2MAMM; www.3m.com/windowfilm.
 - b. Substitutions: Refer to Section 01 60 00 Product Requirements.

2.08 GLAZING COMPOUNDS

- A. Type GC-3 Polysulfide Sealant: Two component; chemical curing, non-sagging type; ASTM C920, Type M, Grade NS, Class 25, Uses M, A, and G; with cured Shore A hardness range of 15 to 25; color as selected.
- B. Type GC-5 Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; non-bleeding, non-staining; ASTM C920, Type S, Grade NS, Class 25, Uses M, A, and G; with cured Shore A hardness range of 15 to 25; color as selected.

2.0809 ACCESSORIES

- A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.
- B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Minimum 3 inch long by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.
- C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.
 - 1. Width: As required for application.
 - 2. Thickness: As required for application.
- D. Glazing Gaskets: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.
- E. Glazing Clips: Manufacturer's standard type.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

- A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
- B. Verify that the minimum required face and edge clearances are being provided.
- C. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.
- D. Verify that sealing between joints of glass framing members has been completed effectively.
- E. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.
- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

- A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.
- B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.
- C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.
- D. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.
- E. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.
- F. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, etc.

3.04 INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)

- A. Application Exterior and/or Interior Glazed: Set glazing infills from either the exterior or the interior of the building.
- B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
- D. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

3.05 FIELD QUALITY CONTROL

- A. See Section 01 40 00 Quality Requirements, for additional requirements.
- B. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.
- C. Monitor and report installation procedures and unacceptable conditions.

3.06 CLEANING

- A. See Section 01 74 19 Construction Waste Management and Disposal, for additional requirements.
- B. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
- C. Remove non-permanent labels immediately after glazing installation is complete.
- D. Clean glass and adjacent surfaces after sealants are fully cured.
- E. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

3.07 PROTECTION

A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.

B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION

SECTION 27 53 13 CLOCK SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Clock system requirements.
- B. Wireless clock systems and associated components:
- C. Accessories.

1.02 REFERENCE STANDARDS

- A. 47 CFR 15 Radio Frequency Devices; current edition.
- B. NECA 1 Standard for Good Workmanship in Electrical Construction; 2015.
- C. NFPA 70 National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate the placement of clocks with potential conflicts and/or view obstructions installed under other sections or by others.
 - 2. Coordinate the work with other installers to provide power for clocks and equipment at required locations.
 - 3. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.
- B. Sequencing:
 - 1. Do not install clocks until final surface finishes and painting are complete.

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.
- C. Shop Drawings: Include plan views indicating locations of system components and proposed size, type, and routing of conduits and/or cables. Include elevations and details of proposed equipment arrangements. Include system interconnection schematic diagrams. Include requirements for interface with other systems.
- D. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and operation of product.
- E. Manufacturer's detailed field testing procedures.
- F. Field quality control test reports.

- G. Operation and Maintenance Data: Include detailed information on system operation, equipment programming and setup, replacement parts, and recommended maintenance procedures and intervals.
 - 1. Include contact information for entity that will be providing contract maintenance and trouble call-back service.
- H. Warranty: Submit sample of manufacturer's warranty and documentation of final executed warranty completed in District's name and registered with manufacturer.
- I. Project Record Documents: Record actual locations of system components and installed wiring arrangements and routing.
- J. Software: One copy of software not resident in read-only memory.

1.05 QUALITY ASSURANCE

- A. Comply with the following:
 - 1. CEC, NFPA 70.
 - 2. Applicable TIA/EIA standards.
- B. Maintain at the project site a copy of each referenced document that prescribes execution requirements.
- C. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- D. Installer Qualifications: Company with minimum three years documented experience with similar clock systems and providing contract maintenance service as a regular part of their business; manufacturer's authorized installer.
 - 1. Contract maintenance office located within 200 miles of project site.
- E. Maintenance Contractor Qualifications: Same entity as installer.
- F. Products: Listed, classified, and labeled as suitable for the purpose intended.
- G. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions.
- B. Store products in manufacturer's unopened packaging, keep dry and protect from damage until ready for installation.

1.07 FIELD CONDITIONS

A. Maintain field conditions within manufacturer's required service conditions during and after installation.

1.08 WARRANTY

- A. See Section 01 78 00 Closeout Submittals, for additional warranty requirements.
- B. Provide minimum one year manufacturer warranty covering repair or replacement due to defective materials or workmanship.

PART 2 PRODUCTS

2.01 CLOCK SYSTEM REQUIREMENTS

- A. Provide modifications and extensions to existing clock system consisting of all required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, etc. as necessary for a complete operating system that provides the functional intent indicated.
- B. Interface with Existing Clock System:
 - 1. Existing Master Clock Unit:
 - a. Manufacturer/Model: Simplex.
 - b. Location: As indicated on Drawings.
- C. Interface with Other Systems:
 - 1. Provide products compatible with other systems requiring interface with clock system.
- D. Electromagnetic Interference/Radio Frequency Interference (EMI/RFI) Limits: Comply with FCC requirements of 47 CFR 15, for Class B, consumer application.

2.02 WIRELESS CLOCK SYSTEMS

- A. Provide components as indicated or as required for extension of wireless time correction signal between master clock unit and wireless secondary indicating clocks.
 - 1. Product(s):
 - a. Wireless Repeater: Sonoff 4CH, or equal.

2.03 ACCESSORIES

A. Provide components and wiring as indicated or as required for connection to auxiliary devices and other systems indicated.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that characteristics of system components are consistent with the indicated requirements.
- C. Verify that mounting surfaces are ready to receive system components.
- D. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

- A. Perform work in accordance with NECA 1 (general workmanship).
- B. Install products in accordance with manufacturer's instructions.

3.03 FIELD QUALITY CONTROL

- A. See Section 01 40 00 Quality Requirements, for additional requirements.
- B. Prepare and start system in accordance with manufacturer's instructions.

- C. Program system parameters according to requirements of District.
- D. Test for proper interface with other systems.
- E. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.
- F. Submit detailed reports indicating inspection and testing results and corrective actions taken.

3.04 CLEANING

A. Clean exposed surfaces to remove dirt, paint, or other foreign material and restore to match original factory finish.

3.05 CLOSEOUT ACTIVITIES

- A. See Section 01 78 00 Closeout Submittals, for closeout submittals.
- B. See Section 01 79 00 Demonstration and Training, for additional requirements.
- C. Demonstration: Demonstrate proper operation of system to District, and correct deficiencies or make adjustments as directed.
- D. Training: Train District's personnel on operation, adjustment, and maintenance of system.
 - 1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
 - 2. Instructor: Qualified contractor familiar with the project and with sufficient knowledge of the installed system.
 - 3. Location: At project site.

3.06 PROTECTION

A. Protect installed system components from subsequent construction operations.

END OF SECTION

SECTION 28 13 53.11

IP NETWORK COMPATIBLE INTERCOM (IX SYSTEM)

GENERAL

1.01 SECTION INCLUDES

A. IP Video Intercom. (Aiphone IX Series s system)

1.02 RELATED SECTIONS

A. Section 27 10 00.10 - Ethernet Cabling.

1.03 REFERENCES

- A. Standards Institute (ANSI/TIA/EIA) 568 Commercial Building Telecommunications Cabling Standard.
- B. International Organization for Standards (ISO) 9001:2000 Quality Management Systems Requirements.

1.04 SYSTEM DESCRIPTION

- A. IP Network Compatible Video Intercom System: A network-based communication and security system featuring video entry security, internal communication, emergency stations, and paging. All units and app in the systems shall be able to unlock doors remotely on a network, view and assist onsite visitors from an offsite location, broadcast emergency announcements, and communicate using a PoE network.
 - 1. Power Source: Power over Ethernet (802.3af).
 - 2. Network Interface: 10 BASE-T / 100 BASE-TX Ethernet CAT 6a (RJ-45).
 - 3. Network Protocols: IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, MJPEG, RTSP, RTP, RTCP, IGMP, MLD, SMTP, DHCP, NTP, DNS.
 - 4. Bandwidth Usage:
 - a. G.711: 64Kbps x 2 per video call.
 - b. 64Kbps per monitor.
 - c. H.264: 24Kbps ~ 2,048Kbps.
 - 5. Communication: Hands-free (VOX), push-to-talk (simplex), or handset (full-duplex).
 - 6. Video Display: 7 inches color LCD.
 - 7. Camera: Type:
 - a. 1/4 inch (6 mm) color CMOS.
 - b. View Area: 2 feet 2 inches (660 mm) vertical x 3 feet 1 inch (940 mm) horizontal at 20 inches (508 mm).
 - c. Resolution: VGA or higher
 - 8. Video Stream: ONVIF Profile S.
 - 9. Door Release: Programmable Form C dry contact, 24V AC/ DC, 500mA (which requires 24V DC power supply).
 - a. District standard electric strike: HES model 9600 Series 24 V DC.

- 10. Power Source for electric strike: Atop AD1048-24FS 48W/24DIN-Rail 24V DC.
- 11. Wire Type: CAT-6a. (District standard: Panduit)
- 12. Distance:
 - a. Base Bid to include up to 100 l. f. of cabling
 - b. Maximum allowable to any station to Network Node: not to exceed 330 feet (100 meters).

1.05 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Submit the following:
 - 1. Wiring Diagrams: Indicate wiring for each item of equipment and interconnections between items of equipment.
 - 2. Include manufacturer's names, model numbers, ratings, power requirements, equipment layout, device arrangement, complete wiring point-to-point diagrams, and conduit layouts.
- D. Installation and Operation Manuals:
 - 1. Submit manufacturer's installation and operation manual, including operation instructions and component wiring diagrams.
 - 2. Provide detailed information required for Owner to properly operate equipment.
- E. Warranty: Submit manufacturer's standard warranty.

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: ISO 9001:2008 certified company.
- B. Installer Qualifications: Factory trained and experienced with system installations of scope and size required for the Project.
- C. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- D. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
- E. Handling: Protect materials during handling and installation to prevent damage.

1.07 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. IP Video Intercom System: IX Series Intercom System as manufactured by Aiphone Corporation. Web site: <u>www.aiphone.com</u>
- B. Requests for substitutions will be considered in accordance with provisions of Document 00
 43 25 Substitution Request Form During Procurement.

2.02 SYSTEM DESIGN

- A. Master Station(s): Provide one master station at each campus.
 - 1. Aiphone Model IX-MV7-HW Provide one per campus at designated location.
- B. Audio Video Door Stations:
 - Model IX-DA Surface Mount: Provide one per campus at designated location. or
 - 2. Model IX-DF Flush Mount: Provide one per campus at designated location.
 - 3. Option: Model IX-DV Surface Mount.
- C. Signage:
 - 1. At each Door Station/Wall Box Contractor shall provide weatherproof signage Signage: "ASSISTANCE" (English) and "ASISTENCIA" (Spanish).
- D. Functional Components: As indicated on the drawings or as required to complete system.
 - 1. Video Master Station Model IX-MV7-HW:
 - a. An IP addressable video master station with a 7 inch color LCD monitor. It can be wall or desk mounted (desk stand included. This station requires a 802.3af compliant Power-over-Ethernet network.
 - 2. Audio/Video Door Station: Model IX-DA, IX-DF, or IX-DV
 - a. Station connects to a PoE network using CAT-6a cable.
 - 3. Optional Components (Unit price items to be used at District option):
 - a. RY-IP44 IP Programmable Relay Adaptor:
 - b. 45 Degree Mullion Mounting Bracket Model KMB-45:
 - c. Stainless Steel Security Lock Box Model LB-SDVF: for IX-DF, IX-DF-HID, & IX-DF-RP10.
 - d. Stainless Steel Enclosure Model SBX-ISDVF:
 - 1) 18-Guage stainless steel enclosure designed for surface mounting the IX-DF door stations.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive integrated security and communication system.
- B. Notify District of conditions that would adversely affect installation or subsequent use.
- C. Do not begin installation until unacceptable conditions are corrected.

3.02 PREPARATION

- A. Verify the following compliance before starting installation.
 - 1. The unit turns inoperative during power failure.
 - Keep the intercom wires at least 1 foot (30 cm) away from strong electrical wiring (AC 100-240 V) including, in particular, wiring for inverter electrical appliances. Noise and malfunction could result.
 - 3. If a strong light shines on the main unit screen, the picture may turn white or only silhouettes will be visible.
 - 4. Other manufacturer's devices (such as sensor, detectors, door releases) used with this system, comply with the manufacturer's installation requirements.
 - 5. The LCD panel is manufactured with very high precision techniques, inevitably will have a very small portion of its picture elements always lit or not lit at all. This is not considered a unit malfunction. Please be aware of this in advance.

3.03 INSTALLATION

- A. Install integrated security and communication system in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Mount equipment plumb, level, square, and secure. For video entrance stations and video door stations, comply with manufacturer's design requirements to provide optimum picture quality of station monitoring.

3.04 SET-UP AND ADJUSTING

A. Adjust integrated security and communication system for proper operation in accordance with manufacturer's instructions.

3.05 DEMONSTRATION AND TRAINING

- A. Demonstration:
 - 1. Demonstrate that integrated security and communication system functions properly.
 - 2. Perform demonstration at final system inspection by qualified representative of manufacturer.
- B. Instruction and Training:
 - 1. Provide instruction and training of Owner's personnel as required for operation of integrated security and communication system.
 - 2. Provide hands-on demonstration of operation of system components and complete system, including user-level program changes and functions.
 - 3. Provide instruction and training by qualified representative of manufacturer.
 - 4. Provide DVD copy of video recorded training session(s)

3.06 PROTECTION

A. Protect installed integrated security and communication system from damage during construction.

END OF SECTION







PARTIAL IRRIGATION PLAN - SHEET LI-1

DAVIDSON ELEMENTARY SCHOOL

PARKING LOT AND SECURITY ENHANCEMENTS SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT



ADDENDUM 2

RUHNAUCLARKE.COM 3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

DAVIDSON ELEMENTARY SCHOOL

PARTIAL PLANTING PLAN - SHEET LP-1









ADDENDUM 2

DAVIDSON ELEMENTARY SCHOOL

ADD 02 - NEW MOW STRIP AND NEW BOLLARDS (REFERENCE SHEET ASD-1.2)









DAVIDSON ELEMENTARY SCHOOL

ADD 02 - CURB UPDATE AND NEW GUARD RAIL DETAIL (REFERENCE SHEET ASD-1.3)









		D	JOR MEASUREMEN	115		
DOOR No.	DOOR TYPE	WIDTH	HEIGHT	THICKNESS	HDWR G	ROUP
	^					
101A	С	6' - 0"	7' - 0"	1 3/4"	1	
101B	02 A	3' - 0"	7' - 0"	1 3/4"	2	
103A		3' - 0"	7' - 0"	1 3/4"	3	
104A	B	3' - 0"	7' - 0"	1 3/4"	4	
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DAVIDSON ELEMENTARY SCHOOL

ADD 02 - NEW BASE CABINET SECTION AND NEW ROLLER SHADE DETAILS (REFERENCE SHEET AD-3.0)













ADD 02 - INT. DOOR THRESHOLD (REFEREN	3" = 1'-0"		
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DAVIDSON ELEMENTARY SCHOOL

ADD 02 - EXT. H.M. WINDOW DETAILS (REFERENCE SHEET AD-3.0)









DAVIDSON ELEMENTARY SCHOOL

ADD 02 - MECHANICAL EQUIPMENT CURB AND ADHERE WALL FLASHING DETAILS (REFERENCE SHEET AD-3.0)









ADD 02 - WALL MOUNTED TV (REFERENCE	SHEET AD-3.0)	3" = 1'-0"
DAVIDSON ELEMENTARY SCHO	DOOL 04-118593 DSA RHL #:	Stampt
PARKING LOT AND SECURITY ENHANCEMENTS SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT	36-55 Date: 07-02-2020	
7/2/2020 10:46 AM RUHNAUCLARKE.COM 3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899	RUHNAU CLARKE Architects	2.09











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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501(951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010/60) 438 5899

ARKE.COM	PARKING LOT AND SECURITY ENHANCEMENTS DAVIDSON ELEMENTARY SCHOOL	ADMIN BUILDING DEMO & NEW RCP'S
		CEILING/WALL ACCESS PANEL PER DETAIL
		REFER TO ELECTRICAL DRAW Imited work involve in drawings for scope of v
		 CEILING MOUNTED EXIT SIG REFER TO ELECTRICAL DRAW WALL MOUNTED EXIT SIGN, REFER TO ELECTRICAL DRAW LIGHT FIXTURE.
		PENDATE LIGHT FIXTURE, REFER TO ELECTRICAL DRAW RECESSED LIGHT FIXTURE, REFER TO ELECTRICAL DRAW
		MECHANICAL DIFFUSER & RE MECHANICAL DRAWINGS FOR RECESSED LIGHT FIXTURE, REFER TO ELECTRICAL DRAW
		2'-0" x 2'-0" SUSPENDED T-E WITH ARMSTRONG ULTIMA H CEILING PANELS, SEE DETAI
		GYPSUM CEILING BOARD. FO JOIST FRAMING INFO., SEE S
		05.104 (N) HSS BEAM ABOVE CEILING FINISH, SEE STRUCT 08:311 (N) CEILING/WALL ACCESS PANEL PER DETAIL 15/A
		02.426 DEMO CEILING 02.428 DEMO LIGHT 02.429 DEMO HVAC SUPPLY/RETURN AND ASSOCIATED DU
		8. PAINT ALL SUPPLY & RETURNS OF ALL ACCENT PAINTED
		 ALL EXPOSED STRUCTURE, INCLUDING MECHANICAL & F ALL MECHANICAL, ELECTRICAL AND PLUMBING EQUIPME CEILING STRUCTURE ALL CONDUIT IN EXPOSED AREAS WHERE CEILING STRU WALLS AT ROOF / FLOOR DECK REFER TO FLECTRICAL & MECHANICAL DRAWINGS FOR (
		 ALL LIGHT FIXTURES TO BE CENTERED IN SPACE, U.N.O ALL CEILING HEIGHTS ARE RELATIVE TO THE FINISH FLO ACOUSTICAL CEILING TILES AND GRID TO BE CENTEREL SUSPENDED CEILING SEISMIC BRACING DETAILS AND T
		GENERAL N
		STAMPS
		SED ARCHITEL SED ARCHITEL SED ARCHITEL SED ARCHITEL No. C-21340 * No. C-21340 * Exp. 10-31-19 *



GENCY APPROVAL le No: ######A#04-11859



ERAL NOTES

IN SPACE, U.N.O.

TO THE FINISH FLOOR DIRECTLY BENEATH. RID TO BE CENTERED IN ROOM. SEE SHEET 5 FOR CING DETAILS AND TRAPEZE DETAILS MECHANICAL & PLUMBING EQUIPMENT TO BE PAINTED UMBING EQUIPMENT TO BE HELD AS TIGHT AS POSSIBLE TO HERE CEILING STRUCTURE IS EXPOSED CAN ONLY PENETRATE

L DRAWINGS FOR CEILING COMPONENT CALLOUTS AND FIXTURE L ACCENT PAINTED CEILING AREAS

EYNOTES

NOTE LEGEND - DEMO RCP

ND ASSOCIATED DUCTS

NOTE LEGEND - NEW RCP

5 FINISH, SEE STRUCTURAL SHEET S-2.1 FOR ADD'L INFO 02

LEGEND

CEILING BOARD. FOR TYPICAL CEILING RAMING INFO., SEE STRUCTURAL DETAIL S0-1.5

-0" SUSPENDED T-BAR CEILING MSTRONG ULTIMA HIGH RNC PANELS, SEE DETAIL ICAL DIFFUSER & REGISTER, REFER TO ICAL DRAWINGS FOR MORE INFO. D LIGHT FIXTURE, D ELECTRICAL DRAWINGS FOR MORE INFO. LIGHT FIXTURE, ELECTRICAL DRAWINGS FOR MORE INFO. LIGHT FIXTURE, ELECTRICAL DRAWINGS FOR MORE INFO. MOUNTED EXIT SIGN, ELECTRICAL DRAWINGS FOR MORE INFO. UNTED EXIT SIGN, ELECTRICAL DRAWINGS FOR MORE INFO. XTURE, D ELECTRICAL DRAWINGS FOR MORE INFO. WORK INVOLVE IN AREA, SEE ELECTRICAL GS FOR SCOPE OF WORK INVOLVE

WALL ACCESS



SAN BERNARDINO CITY USD





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PARKING LOT AND SECURITY ENHANCEMENTS DAVIDSON ELEMENTARY SCHOOL SAN BERNARDINO CITY USD INTERIOR ELEVATIONS

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CEILING R MATERIAL FINISH COLOR	REMARKS ROOM NO.	ED ARCH
GWB PES P-1,2 ACT FF ACT-1 REF IN ACT FF ACT-1 REF DET/ 4,5 GWWB PSG P-1 REF DET/	101 NTERIOR ELEVATION 5/A1-4.1 FOR GRAPHIC 102 103 103 AIL 5/A1-1.0 FOR ACCENT WALL TILE PATTERN 104	(* No. C-21340 Exp. 10-31-19
(E) PSG P-1 PATCH AND REPARE (E) PSG P-1 PATCH AND REPARE	AS NOTED IN PLANS, REPLACE W/ FINISHES TO MATCH (E) 301 AS NOTED IN PLANS, REPLACE W/ FINISHES TO MATCH (E) 303 LOCATION	FOF CAL IFOT
VELVET TEXTURE FINISH, 'NATURAL TULIPWOOD' #Y0654K-38 E FINISH, 'DESIGNER WHITE' #D354-60 E FINISH, 'OCEAN' #D502-60	TYPICAL ACCENT ACCENT	STAMPS
ASTEEL' #6277-418 T WEAVE #1300 SERIES, 5% OPEN, 'SILVER BIRCH' #1319	BASE @ RECEPTION TYPICAL	
4"H 'PEPPERMINT' #A183-301	TYPICAL CONFERENCE	
#D014, 2"x2" HEXAGON MOSAIC WITH COORDINATING TRIM PIECES AS NEEDED) #0190, 6"x6" WITH COORDINATING TRIM PIECES AS NEEDED & SANITARY COVE BASE #S3419TS3419T, 6"x6", STACKEI 0169, 6"x6" WITH COORDINATING TRIM PIECES AS NEEDED "x6"WITH COORDINATING TRIM PIECES AS NEEDED 9, 6"x6"WITH COORDINATING TRIM PIECES AS NEEDED	FLOOR TILE @ RESTROOMS TYPICAL WALL TILE/ COVE BASE @ RESTROOMS ACCENT WALL TILE @ RESTROOMS ACCENT WALL TILE @ RESTROOMS ACCENT WALL TILE @ RESTROOMS	
	8 FINISHESIEGEND 1	CONSULTANT BRANDING
COLORS, MATERIALS	1. ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 3, 8 & 10, CFC AND CCR TITLE 19	
	 WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.11 NOT USED ALL ADJACENT DISSIMILAR FINISH MATERIALS TO RECEIVE BEAD OF CAULK, U.N.O. SEE INTERIOR ELEVATION SHEETS FOR ACCENT PAINT LOCATIONS 	 PER SECTION 1pp010.1.10 IN THE CBC 2016, DOOR SERV LOAD OF 50 OR MORE ARE REQUIRED TO HAVE PANIC HA ROOM OCCUPANT LOADS FACTORED PER CBC 2016 SECT REFER TO SIGNAGE SCHEDULE IN SECTION 10 14 00 FOR
	 ALL EXPOSED STEEL, HOLLOW METAL DOORS AND FRAMES, AND LOUVERS TO BE PAINTED TOILET ROOM, TOILET ROOM VESTIBULES, AND FOOD SERVICE AREA WALLS AND CEILINGS NOT COVERED BY EITHER TILE OR F.R.P. TO HAVE MOISTURE RESISTANT GYP. BD., U.N.O. COORDINATE FINISHES WITH MECHANICAL FOR PLUMBING FIXTURES FOR EXTENT AND PATTERN OF CEILING FINISH, SEE REFLECTED CEILING PLAN 	 SEE SHEET 4 AD-1.0 FOR SIGNAGE ATTACHMENTS AND LC AD-1.0 ALL DOORS TO HAVE A 90 DEGREE SWING LIMIT WHERE SIDE OF DOOR. TYPICAL AT PAIRS OF DOORS: WHEN POSSIBLE TACTILE OF DOORS.
	 10. AT COVE BASE, PROVIDE CONT. 3/8" RADIUS 11. FOR TYPICAL CERAMIC TILE DETAILS, REFER TO DETAIL 12. FOR MORE INFO. ON COLORS, FINISHES & MATERIALS, REFER TO DETAIL (1) 	
	FINISH NOTES ACP ACOUSTIC CEILING PANEL PT PORCELAIN TILE	GENERAL EGRE
	AWPACOUSTIC WALL PANELRESRESINOUS FLOORINGCMUCONCRETE MASONRY UNITRSROLLER SHADECONCCONCRETERBRUBBER BASECPTCARPETSAFSYNTHETIC ATHLETIC FLOORINGCTCERAMIC TILESCSEALED CONCRETEEPEPOXYSSMSYNTHETIC SURFACE MATERIALFFFACTORY FINISHSTSTAINFRPFIBERGLASS REINFORCED PANELTTILEGEGRAPHIC ELLMTPTOIL ET PARTITION	ROOM NUMBER ROOM NAME EXIT EXIT EXIT EXIT EXIT EXIT EXIT EXI
	GLGLAZINGTSBTOP SET BASEGGROUTTWPTACKABLE WALL PANELGWBGYPSUM WALL BOARDUOSUNDERSIDE OF STRUCTUREGWWBWATER RESISTANT GWBVCBVENTED COVED BASEICBINTEGRAL COVED BASEVCTVINYL COMPOSITION TILELLOCKERVWCVINYL WALL COVERINGLVTLUXURY VINYL TILEWCPWOOD COMPOSITE PANELMPMETAL PANELWACPWASHABLE ACOUSTIC CEILING PANELOPOPERABLE PARTITIONWAFWOOD ATHLETIC FLOORINGPPAINTWDMWOOD MASIVE FLOORINGDIDIDIMALL DEDEECTION	ASSISTIVE LISTENING SIGNAGE AD-1.0 AD-1.0 ACC - SYMBOL OF ACCESIBILITY SIGNAGE
	PESPAINT: EGGSHELLWVFBWOOD VENEER FACE BLADEPFPAINT: FLATPGPAINT: GLOSSPSGPAINT: SEMI-GLOSSPCPOWDER COATQTQUARRY TILE	
FINISHES PLAN SCALE: 1/4" = 1'-0" 2	FINISH ABBREVIATIONS	FE (N) RECESSED FIRE
(4)	PATTERN MATERIAL NAME TILE T-1	TRAVEL DISTANCE IDENTIFIED ON PLANS, PER CBC 2016 SECTION 906. SEE SPEC SECTION 10 44 00 FOR CLASS.
	LUXURY VINYL TILE	(N) ILLUMINATED EXIT SIGN. TO BE
	$ \begin{array}{c} \hline \\ \hline $	OPENING OR HANG FROM THE CEILING. REFER TO ELEC DRAWINGS FOR ADDITIONAL INFO. (101) - DOOR NUMBER, REFER TO DOOR SCHEDULE ON SHEET A1-8.1
	LIMITED WORK INVOLVED IN AREA, SEE ELECTRICAL DRAWINGS FOR SCOPE OF WORK INVOLVE	ROOM NAME ROOM TAG
	NOTE: FOR MORE INFO. ON COLORS/MATERIALS/FINISHES, SEE DETAIL	130 SF Image: Compare the second se
	FLOOR FINISHES LEGEND	EGRESS & LIFE SA
	PER CBC SECTION 11B-219.3, THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4 PERCENT OF THE TOTAL NUMBER OF SEATS BUT IN NO CASE BE LESS THAN (2).	SUMMARY FOR MIN. DOOR WIDTH (PER 2016 CBC SEC. 1005) WORST CASE PER SINGLE DOOR: 17 OCC. x 0.2" PER OCC. = 3.4" NEEDED < 36" PROVIDED = OK
	TOTAL OCCUPANTS: 6 RECEIVER CALCULATION:	WORST CASE PER DOUBLE DOOR: 17 OCC. x 0.2" PER OCC. = 3.4" NEEDED < 72" PROVIDED = OK SUMMARY FOR MIN. EGRESS CORRIDOR WIDTH (PER 2016 CBC
	6 OCCUPANTS x 0.4 = 0.24 = MINIMUM 2 RECEIVERS REQUIRED HEARING AID COMPATIBLE CALCULATION 2 RECEIVERS x 0.25 = .05 = 1 RECEIVER TO BE HEARING AID COMPATIBLE	EGRESS CORRIDOR WORST CASE: 17 OCC. × 0.15" PER OCC. = 2.6" NEEDED < 105" PROVIDED = 0 NOTE: 36" MIN. WIDTH REQUIRED
FCDFCC & CICNIACE DI ANI SCALE:	ΔΙ Ο ΤΛΡΙΙΙΑΤΙΩΝΙ	
CORLOS & STORAGE PLAIN 1/4" = 1"-0" 3 RUHNAUCLARKE.COM 3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501(951) 684 4664 / 5751 PALMER WAY. SUITE C. CARI SBAD CALIFORNIA 9201(750) 438 5890	PARKING LOT AND SECURITY ENHANCEMENTS DAVIDSON ELEMENTARY SCHOOL SAN BERNARDINO CITY USD	BUILDING FINISHES/ EGRESS/
		JIGNAGE PLAN



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SER CLARCH	
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	CLARKE
	ARCHITECTS
LINE INE INDICATED (E) STRIPIN LINK FENCE TO BE REMAIN D PATH OF TRAVEL (P.O.T),	NG TO BE DEMOLISHED (BLACK-OUT) N. PROTECT IN PLACE N SEE SHEET AS-1.0
ING TO REMAIN	
CAPING/ PLANTER AREA TO) REMAIN
RETE PAVING, CURB, AND F	λ ΑΜΡ
D SCOPE OF WORK OF (N) / DCATED WHEEL STOPS PER	AC PAVING AND NEW STRIPING LAYOUT R NEW LAYOUT.
ON LANDSCAPING/ PLANTE	R
D SCOPE OF WORK OF LANI	DSCAPING/ PLANTER
D SCOPE OF WORK OF CON TILES, STEP WITH HANDRA	ICRETE WALKWAY, DETECTABLE AIL, RAMP WITH CURB AND HANDRAIL
	7
ITIFICATION NUMBER, SEE	SCHEDULE SHEET AS-1.0.
O REMAIN, PROTECT IN PL	ACE
ND ROOT BALL TO BE REM	OVED
O BE REMOVED & REPLACE	ĒD
E PER SCHEDULE	
PARKING SPACES AND ACCI	ESS AISLES SHALL BE THE MINIMUM
ARKING LOT.	NY DIRECTION
TCH BASIN, ETC. TO BE AD DRAWINGS. SEE SHEET C DOR ELEMENTS WITHIN SCO	DJUSTED TO NEW GRADE OR -3.1 & E1.0 FOR ADDITIONAL OPE OF WORK.
N PLACE	
E LEGEND &	NOTES 3
3'-0"	I
	SYMBOL AND BORDER:
	WHITE REFLECTIVE PAINT STRIPPING BLUE BACKGROUND.
	COLOR NO. 15090 IN FEDERAL STANDARD 595 C.
	PER CBC FIG. 11B-703.7.2.1
	4" RADIUS, TYPICAL
AND BORDER STENCILED ON T	°O PARKING

DISABLED PARKING EMBLEM 3/4"=1'-0" 5



3 TYPICAL TRENCH DETAIL (CONCRETE CAP) E0.2 SCALE: NONE

OF OTHER TRADES IN ORDER TO MINIMIZE INSTALLATION CONFLICTS WITH OTHER BELOW GRADE UTILITIES. CONTRACTOR SHALL ADJUST OVERALL DEPTH OF COVER OF ELECTRICAL DUCT BANKS AVOIDING ANY REQUIRED SLOPING OF OTHER

UTILITIES. ALL COORDINATION FOR SUCH INSTALLATIONS SHALL BE MADE WITH NO ADDITIONAL COSTS TO THE OWNER.

2. CONTRACTOR SHALL CLOSELY COORDINATE HIS TRENCHING (EXACT LOCATION AND DEPTHS) WITH THAT

DIM. AS REQD, MIN 24"

1. PROVIDE ALL TRENCH SHORING AS REQUIRED BY CODE AND LOCAL AHJ.

- SAND BACKFILL TO 90% COMPACTION

- PLASTIC LADDERS FOR CONDUIT

PER SPECIFICATIONS

MOUNTING / RACKING

- TYPICAL SIGNAL CONDUIT.

- MAINTAIN 12" SEPARATION BETWEEN SYSTEMS IN COMMON TRENCH

TYPICAL POWER SYSTEM CONDUITS (UNDER 600V).
 SEE RESPECTIVE PLANS AND 1-LINES FOR SIZES & QUANTITIES.

FOR QUANTITY, DISTRIBUTION

AND SIZES, SEE RESPECTIVE SITE PLANS.

PROJECT No. : 1-78-26 7/2/2020 9:04 AM

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									MAIN:	350AT				
HASE,	4 WI	RE							BUS:	400A				
t VE) Len	Wire	Mico	Poo	I to	١	/olt-Amp)S		DE	SCRIPTION		Ш	
k %	(ft)	Size	IVIISC	Neu	Lig	ØAN	Ø BN	ØCN		DL	SCILLE HON		NO	
/3			1			3400						(E) AC C-3	8	
							3400	0.400					·	
12						2400		3400				(E) AC C 1	-	
5	_		1			3400	3400					(E) AC C-1		−2
								3400						
/3			1			1800						(E) AC A-5	;	
i i							1800							
/1			1					2400				IWH-1	ŀ	—3
/2			1			9268					(E) SUBFEE	D PANEL "A1"		
							7428							
/1				5				900			(E) E	XISTING LOAD		-2
/1			4	5		900	4000				(E) E)	
2	_		1				1200	1200				(E) MDF		
						ØRN		1200	ØCN				<u> </u>]
						20.520	1/4		22 600	1/4	04.400			
						28,528	VA		22,600	VA	81,196	VA		
1 = 225	0.5 A						Del Silving		HIGH L	INE CURR	ENT(ØA) = 250.6	A		
						4,250	VA		4,250	VA	12,750	VA		
						-	VA		-	VA	-	VA		
						900	VA		1,800	VA	4,500	VA		
						-	VA		-	VA	-	VA		
						-	VA		-	VA	-	VA		
1						-	VA		-	VA	-	VA		
						-	VA		-	VA	-	VA		
						24,228	VA		17,400	VA	66,496	VA		
						-	VA		-	VA	-	VA		
						29,378	VA		23,450	VA	83,746	VA		
= 232 6	۸								HIGHI	INE CURP	ENT (0A) = 257.7	٨		

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	\sim	<u>6</u> 2													
PHASE, 3 WIRE BUS: 100A kt VD Len Wire Misc Rec Ltg Volt-Amps DESCRIPTION PQ 0/1 1 2000 (E) HAND DRYER (E) HAND DRYER 0/1 1 2000 (E) HAND DRYER (E) HAND DRYER 0/1 1 1000 (E) HAND DRYER 0/1 1 1000 (E) AC EVAP CLOSET 0/1 1 900 (E) AC POWER CLOSET 0/1 1 900 (E) AC POWER CLOSET 0/1 1 900 (E) AC POWER CLOSET 0/1 1 100 IRRIGATION CONTROLLER 1 1,500 VA 1,500 VA 1	3)	<u>र</u>								MAIN:	MLO				
Anderson Description Here int VD Len Wire Misc Rec Ltg Volt-Amps DESCRIPTION Here 0/1 1 2000 (E) HAND DRYER (E) HAND DRYER 0/1 1 1 2000 (E) HAND DRYER 0/1 1 1 2000 (E) HAND DRYER 0/1 1 1200 (E) AC EVAP CLOSET 1200 0/1 1 900 (E) AC POWER CLOSET 0/1 1 2 360 (R) ROOF RECEPTS 5/2 2 2 768 0/1 1 100 IRRIGATION CONTROLLER 0/1 1 100 <td></td> <td>SE</td> <td>3 W</td> <td>IRF</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>BUS</td> <td>100A</td> <td>_</td> <td></td> <td></td> <td></td>		SE	3 W	IRF						BUS	100A	_			
VD Len Wire Misc Rec Ltg Volt-Amps DESCRIPTION U 0/1 1 2000 (E) HAND DRYER (E) HAND DRY		(OL,	0 11							200.		_			
Misc Rec Ltg Ø AN Ø BN DESCRIPTION Ø D/1 1 2000 (E) HAND DRYER (E) HAND DRYER (E) HAND DRYER D/1 1 2000 (E) HAND DRYER (E) HAND DRYER (E) HAND DRYER D/2 1 1200 (E) AC EVAP CLOSET D/1 - 1 900 (E) AC POWER CLOSET D/1 1 900 (E) AC POWER CLOSET D/1 2 768 D/1 1 100	kt	VD	Len	Wire		_		Volt-	Amps					Ш	
0/1 1 2000 (E) HAND DRYER 0/1 1 1 2000 (E) HAND DRYER 0/2 1 1200 (E) AC EVAP CLOSET 1200 1200 (E) AC EVAP CLOSET 1200 0/1 1 900 (E) AC POWER CLOSET 0/1 2 360 (R) ROOF RECEPTS 5/2 2 768 SS-1 & SS-2 768 0/1 1 100 IRRIGATION CONTROLLER 0/1 1 100 SPARE 0/1 1 100 IRRIGATION CONTROLLER 0/1 1 100 SPARE 0/1 1 100 IRRIGATION CONTROLLER 0/1 1 100 SPARE 1,500 VA 3,000 VA - VA - VA - VA - VA <	rk	%	(ft)	Size	Misc	Rec	Ltg	ØAN	ØBN		DESC	RIPTION		NO	
Ø/1 1 2000 (E) HAND DRYER 0/2 1 1200 (E) AC EVAP CLOSET 1200 0/1 1 900 (E) AC POWER CLOSET 0/1 1 900 (E) AC POWER CLOSET 0/1 2 360 (R) ROOF RECEPTS 5/2 2 768 SS-18 SS-2 - - 85-18 SS-2 - - 768 0/1 1 100 IRRIGATION CONTROLLER 0/1 1 100 SPARE 1,500 VA 7,428 VA 1,500 VA 3,000 VA - VA - VA - VA - VA	0/1				1			2000				(E)	HAND DRYER	П	
Ø/2 1 1200 (E) AC EVAP CLOSET 1200 Ø/1 1 900 (E) AC POWER CLOSET Ø/1 2 360 (E) AC POWER CLOSET Ø/1 2 360 (R) ROOF RECEPTS 5/2 2 768 SS-1& SS-2 768 SS-1& SS-2 0/1 1 100 IRRIGATION CONTROLLER 0/1 1 100 SPARE ØAN Ø BN SPARE 9,268 VA 7,428 VA 9,268 VA 7,428 VA 9,268 VA 7,428 VA 9,268 VA 7,428 VA 1,500 VA 1,500 VA - VA - VA - VA - VA - VA - VA - VA - VA - <	0/1				1				2000			(E)	HAND DRYER		
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D/1 1 900 (E) AC POWER CLOSET D/1 2 360 (R) ROOF RECEPTS 5/2 2 768 SS-1& SS-2 768 SS-1& SS-2 768 SS-1& SS-2 768 SS-1& SS-2 D/1 1 100 IRRIGATION CONTROLLER D/1 1 100 SPARE Ø AN Ø BN SPARE 9,268 VA 7,428 VA 1,500 VA 1,500 VA 1,500 VA 1,500 VA - VA -									1200						
D/1 2 360 (R) ROOF RECEPTS 5/2 2 768 SS-1 & SS-2 768	0/1				1			900				(E) AC PC	WER CLOSET		
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768 D/1 1 100 IRRIGATION CONTROLLER SPARE D/1 1 100 SPARE SPARE Ø AN Ø BN SPARE SPARE 9,268 VA 7,428 VA 16,696 VA 9,268 VA 7,428 VA 16,696 VA 9,268 VA 7,428 VA 16,696 VA 1,500 VA 1,500 VA 3,000 VA - VA - VA - VA </td <td>5/2</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>768</td> <td></td> <td></td> <td></td> <td></td> <td>SS-1 & SS-2</td> <td></td> <td></td>	5/2				2			768					SS-1 & SS-2		
D/1 1 100 IRRIGATION CONTROLLER D/1 Ø AN Ø BN Ø AN Ø BN 9,268 VA 7,428 VA 16,696 VA 1,500 VA 1,500 VA 3,000 VA - VA 1,500 VA 3,000 VA - VA 1,500 VA 3,000 VA - VA - VA - VA - VA - VA - <td></td> <td></td> <td></td> <td></td> <td>3-6</td> <td></td> <td></td> <td></td> <td>768</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					3-6				768						
ØAN ØBN 9,268 VA 7,428 VA 16,696 VA 9,268 VA 7,428 VA 16,696 VA HIGH LINE CURRENT (ØA) = 77.2 A 1,500 VA 1,500 VA 3,000 VA - VA - VA - VA - VA 360 VA 360 VA - VA - VA - VA - VA - VA	0/1				1			100				IRRIGATION	CONTROLLER		Ĭ
Ø AN Ø BN 9,268 VA 7,428 VA 16,696 VA RENT = 69.6 A HIGH LINE CURRENT (ØA) = 77.2 A 1,500 VA 1,500 VA 3,000 VA - VA - VA 3,000 VA - VA - VA - VA - VA 360 VA 360 VA - VA - VA - VA - VA -	0/1												SPARE	<u> </u>	
9,268 VA 7,428 VA 16,696 VA HIGH LINE CURRENT (ØA) = 77.2 A 1,500 VA 1,500 VA 3,000 VA - VA - VA 3,000 VA - VA - VA - VA - VA 360 VA 360 VA - VA - VA - VA - VA 5,868 <td></td> <td></td> <td></td> <td></td> <td>Ø AN</td> <td></td> <td></td> <td></td> <td>ØBN</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					Ø AN				ØBN						
HIGH LINE CURRENT (ØA) = 77.2 A 1,500 VA - VA				ç	9,268	VA			7,428	VA		16,696	VA		
1,500 VA 1,500 VA 3,000 VA - VA - VA - VA - VA 360 VA 360 VA - VA 360 VA 360 VA - VA - VA - VA 8,068 VA 5,868 VA 13,936 VA <td>REN</td> <td>T = 69</td> <td>9.6 A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HIG</td> <td>H LINE CURRE</td> <td>ENT (ØA) = 77.2</td> <td>Α</td> <td></td> <td></td>	REN	T = 69	9.6 A							HIG	H LINE CURRE	ENT (ØA) = 77.2	Α		
- VA - VA - VA 360 VA - VA - VA 8,068 VA 5,868 VA 13,936				1	1,500	VA			1,500	VA		3,000	VA		
- VA 360 VA 360 VA - VA - VA - VA 8,068 VA 5,868 VA 13,936 VA					_	VA			-	VA		-	VA		
- VA - VA					-	VA			360	VA		360	VA		
- VA - VA 8,068 VA 5,868 VA 13,936					-	VA			_	VA		-	VA		
- VA - VA - VA - VA 8,068 VA 5,868 VA 13,936 VA					-	VA			-	VA		-	VA		
- VA - VA - VA 8,068 VA 5,868 VA 13,936 VA					-	VA			-	VA			VA		
8,068 VA 5,868 VA 13,936 VA					-	VA			-	VA		-	VA		
				8	3,068	VA			5,868	VA		13,936	VA		
- VA - VA - VA					-	VA			_	VA		-	VA		
9,568 VA 7,728 VA 17,296 VA				ç	9,568	VA			7,728	VA		17,296	VA		
ENT = 72.1 A HIGH LINE CURRENT (ØA) = 79.7 A	NT	= 72.1	1 A							HIG		ENT (ØA) = 79.7	Α		





2 HANDHOLE (PULLBOX) 2' X 3' E0.2 SCALE: NONE

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

RUHNAUCLARKE.COM

ENHANCEMENTS

DAVIDSON ELEMENTARY SCHOOL 2844 N DAVIDSON AVE., SAN BERNARDINO, CA 92405 SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

PANEL SCHEDULES & DETAILS



RUHNAU C L A R K E

ARCHITECTS

DTES
SWBD "MSB" AND DOWNSTREAM PANEL "A" (2) MAIN CIRCUIT BREAKERS SIZE PRIOR TO
LACE. FIELD VERIFY EXISTING CONDUCTORS
H NEW WITH FULL LENGTH BUSSING FOR
JERAL NOTES
T CURRENT RATINGS ASSOCIATED WITH THEIR
AND SHALL CARRY A SEPARATE GROUNDING
OLE UNLESS OTHERWISE NOTED. NSTRUCTION WITH TIN PLATED COPPER BUSSING
SWITCHBOARDS SHALL CONTAIN CUSTOMER PEAK DEMAND PER PHASE.
ARD CONSTRUCTION WITH TIN PLATED COPPER
CCB CONSTRUCTION WITH TIN PLATED COPPER
L SECTIONS SHALL ALIGN IN FRONT. STRUCTION WITH TIN PLATED COPPER BUSSING,
AD FRONT COVERS WITH LOCKABLE DOOR, AND PART OF THESE CONSTRUCTION DOCUMENTS. AS COMPLYING WITH ARTICLE 500, 511, AND/OR O BOTTOM OF PANEL AND SHALL BE IN REAKER NO HIGHER THAN 6'-7" A.F.F. PER
ANELBOARDS, DISCONNECTS, STARTERS, ETC.) L BE PHENOLIC WITH ENGRAVED WHITE LETTERS
OWING: FORMERS:
x = 1/4" LETTERS SCONNECTS, STARTERS, ETC:
$c 4 = 1/4^{"}$ LETTERS
MUM OF TWO (2) SCREWS NO SELE ADHESIVE
GE DROP. CONTRACTOR IS TO NOTIFY ENGINEER
DUCTOR LENGTH. DE OR BELOW SHALL HAVE A MINIMUM 4" HIGH SHALL EXTEND 4" BEYOND EQUIPMENT OF A PAD SHALL ALSO APPLY TO EQUIPMENT
HAT IS LOCATED IN AREAS OTHER THAN AT
TESTING FOR ALL EQUIPMENT, CONDUCTORS,
RE WINDINGS WITH MINIMUM 105° TEMPERATURE
GENERAL NOTES
IN DWELLING UNIT BEDROOMS, LIVING ROOMS, AND SIMILAR SPACES SHALL BE PROTECTED
PER NEC 210–12(B) A PER BRANCH CIRCUIT BASIS, MULTIWIRE S THAT WILL SIMULTANEOUSLY DISCONNECT ALL
E BRANCH CIRCUIT ORIGINATES. (NEC 210.4(B). IENT SUBMITTALS FOR REVIEW.
TED, WITH FEED THROUGH LUGS AT THE BOARD MAIN LUGS.
, WITH DOUBLE LUG KIT AT SAME END OF THE
IEN INDICATED. IG BUS SHALL BE DRILLED AND LL SPACE/SPARES.
S SERIES RATED, PROVIDE CIRCUIT BREAKERS UPSTREAM SYSTEM FOR THE AVAILABLE FAULT H THE SERIES CONNECTED RATINGS, AS WELL WHERE ADOPTED, 240-83(C).
P INTO THE ACCESSIBLE CEILING SPACE FOR AG, CAP AND MARK EACH SPARE CONDUIT FOR
T BREAKER FEEDING A TRANSFORMER AS 4. WHERE AN EXISTING PANEL IS BEING ALL INCLUDE ALL COSTS IN BASE BID TO ADD MER CIRCUIT BREAKERS BASED ON IS.
ID SUITABLE FOR 75 DEGREE AMPACITY
TYPE, MINIMUM 20" WIDE AND $5-3/4$ " DEEP
L AND GROUND) SHALL BE TIN PLATED COPPER
EXISTING EQUIPMENT, ALL NEW EQUIPMENT AND A.I.C. RATINGS.
GRAM, I — — —
s& ' E0.2



GENERAL NOTES	ED PROFESSIONAL SED A
 SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR PLANNED DEMOLITION WALLS AND CEILINGS, AS WELL AS EXISTING-TO-REMAIN CEILINGS. SEE MECHANICAL/PLUMBING DEMOLITION DRAWINGS FOR PLANNED MECHANICAL/PLUMBING EQUIPMENT DEMOLITION AND EXISTING-TO-REMAIN MECHANICAL/PLUMBING EQUIPMENT. CHANGE ALL OVER CURRENT PROTECTIVE DEVICES TO "OFF" POSITION WHICH SERVE LIGHTING, RECEPTACLES, EQUIPMENT, ETC. BEING DEMOLISHED TO POINT OF ORIGINATION. ENSURE NO LOADS WILL REMAIN BEING SERVED BY SAID OVER CURRENT PROTECTIVE DEVICE AFTER DEMOLITION, PRIOR TO CHANGING "ON/OFF" POSITION. 	STAMPS
 DEVICE AT LER DEMOLITION, PRICE TO CHANGING "ON/OFF" POSITION. DEMOLITION NOTES. ALL EQUIPMENT, DEVICES, ETC. IDENTIFIED AS (X) TO BE DEMOLISHED BACK TO POINT of ORGIN, MAINTAIN CIRCUIT CONTINUITY TO ALL DEVICES IN ADJACENT AREAS SERVICE BY SAME ORCUIT. ALL EVISTING PAYTNES: INDICATED AS "ER" ARE EXISTING TO BE RELOCATED. SEE CONTINUITY TO LIGHT FRITURES INDICATED AS "ER" ARE EXISTING TO BE RELOCATED. SEE CONTINUITY TO LIGHT FRITURES MULCICATION AS "DEVICE TAREAS. FIELD VERIFY ALE EXISTING WALL SMITCH AND OCCUPANCY SENSOR LOCATED. SEE CONTINUITY TO LIGHT FRITURES ADJACENT AREAS. FIELD VERIFY ALE EXISTING WALL SMITCH AND OCCUPANCY SENSOR LOCATIONS AND RELOCATE AS INCESSARY TO ACCOMMODATE NEW CONSTRUCTION. ALL EQUIPMENT, DEVICES, ETC. NOT IDENTIFIED AS EVEN DEMOLISHED ARE EXISTING TO REMAIN UNDISTRIERED, NULLESS NOTED OTHERWISE SON DEMOLISHED ARE EXISTING TO REMAIN UNDISTRIERED, NULLESS NOTED OTHERWISE AND SIGNAL PLANS. REFERENCE BUILDING POWER PLANS FOR EXISTING DEVICES TO BE RELOCATED. RECORCIPEC, ETC. ALL EXISTING WORK SHOWN LIGHT, NEW WORK SHOWN DARK. THE ELECTRICAL DRAMINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DANIMISC AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING DRAWINGS TO DETERMINE THE LOCATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDER'S WILL BE ACCEPTED. CONTRACTOR IS RESPONSIBLE TO RELOCATE OF RAUL EXISTING GUIPMENT. SHOWN AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONTRACTOR IS RESPONSIBLE TO RELOCATE OF RAUL EXISTING CULTERS, FILTURES OF PROVIDE GREAT CONTRIBUTION. TO MUESTING TO THE SHOULT AND ANALES AND ADDITIONAL ALLOWANCE OR CHANGE ORDING'S MULTIS MARKES FILTONS, FILTURES OF PROVIDE GREAT CONTRIBUTION. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CULTER DEVICES. CONTRACTOR IS REGISTRI	ODDUCTORS FOR TEMOORARY CONNECTION PROVIDE STATUS OF THE STATUS OF
	 POWER GENEL ALL WALL MOUNTED DEVICE HEIGHTS SHALL BE ELEVATIONS PRIOR TO ROUGH-IN. PENETRATIONS THRU FIRE RATED WALLS SHALL STOP SYSTEM EQUAL TO OR GREATER THAN TH PENETRATED. ALL DEVICES MOUNTED BACK TO BACK ON CON SEPARATE BOXES AND OFFSET 24" MINIMUM OF APPROVED SOUND PROOF BACKING. WHEN EXPOSED CEILING OR OPEN GRID CONDITI ALL BRANCH CIRCUITS TO BE INSTALLED IN EM ALL BRANCH CIRCUITS SHALL BE ROUTED PARA RACKED NEATLY IN GROUPS OF MULTIPLE PATH ALL LOW VOLTAGE CABLES SHALL BE: INSTALLED IN EMT CONDUIT PATHWAN EXPOSED LOW VOLTAGE CABLING IN OPEN TYPE D-RINGS, J-HOOKS OR SIMILAR APPARATUS WI IN WRITING BY ARCHITECT/ENGINEER PRIOR TO CONTRACTOR SHALL INCLUDE AN ALLOWANCE IN LOW VOLTAGE CABLES IN OPEN CEILINGS AS DESS. EXPOSED CABLE/CONDUCTORS INSTALLED IN A SUCH ENVIRONMENT AND INSTALLATION SHALL ADOPTED, ARTICLE 300.22(C). TAMPER RESISTANT TYPE RECEPTACLES SHALL OR STRUCTURE (FOR EDUCATIONAL, S PORTION THEREOF WHERE FOUR (4) OR MC OR LESS, ARE PRESENT (CEC 406.2, 406.4(D)(TAMPER-RESISTANT TRE CETTACLES SHALL BE M RESISTANT" OR THE LETTERS "TR" (MINIMUM J, INDICATION THAT THE DEVICE IS TAMPER-RESIST

PARKING LOT AND SECURITY **ENHANCEMENTS** DAVIDSON ELEMENTARY SCHOOL 2844 N DAVIDSON AVE., SAN BERNARDINO, CA 92405 SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

OVERALL ELECTRICAL SITE PLAN





RUHNAU CLARKE

1-22-72

E2.(

		GENER	AL NOTES	5		PROFESSION
	 SEE ARCHITECT CEILINGS, AS W SEE MECHANICA EQUIPMENT DEM CHANGE ALL O' LIGHTING, RECEI ENSURE NO LO DEVICE AFTER I 	JRAL DEMOLITION DRAWIN ELL AS EXISTING-TO-REM IL/PLUMBING DEMOLITION IOLITION AND EXISTING-T VER CURRENT PROTECTIVE PTACLES, EQUIPMENT, ETG ADS WILL REMAIN BEING S DEMOLITION, PRIOR TO CH	NGS FOR PLANNED DE MAIN CEILINGS. DRAWINGS FOR PLAN O-REMAIN MECHANIC/ E DEVICES TO "OFF" I C. BEING DEMOLISHED SERVED BY SAID OVE HANGING "ON/OFF" PC	MOLITION WALLS AND NED MECHANICAL/PLUME AL/PLUMBING EQUIPMENT POSITION WHICH SERVE TO POINT OF ORIGINATIO R CURRENT PROTECTIVE DSITION.	BING ON.	EXP. 05/30/20 + CTRICALIFORMUT STAMPS
	 ALL EQUIPMENT OF ORIGIN. MAIL SERVICE BY SA ALL EXISTING F NEW LIGHTING F CONTINUITY TO FIELD VERIFY A RELOCATE AS N ALL EQUIPMENT TO REMAIN UND PLANS. REFERE RECIRCUITED, E ALL EXISTING M THE ELECTRICAI DRAWINGS TO D THE EXISTING O SHOWN FOR RE CONDITIONS AT EXTENSION, REL ADDITIONAL ALL CONTRACTOR IS FLOOR SPACES, OTHER ELECTRI PROVIDE CIRCUI EQUIPMENT, ETO NOTIFY THE EN- WHICH MUST BE "AS-BUILT" DR. WALLS. CAREFULLY PROVIDE CIRCUI EQUIPMENT, ETO NOTIFY THE EN- WHICH MUST BE "AS-BUILT" DR. WALLS. CAREFULLY PROVIDE CIRCUI EQUIPMENT, ETO NOTIFY THE EN- WHICH MUST BE "AS-BUILT" DR. WALLS. CAREFULLY PROVIDE CIRCUI EQUIPMENT, ETO NOTIFY THE CON MATERIALS. WI AREA IF POSSIE ARE DAMAGED EQUIPMENT, MA BE REPLACED I REPLACED WITH DO ALL DRILLIN INDICATED. PR OF FIXTURE OR DO ALL DRILLIN INDICATED. PR OF FIXTURE OR ALL REMOVED M REMAIN IN THE EQUIPMENT ON THEM AND PRO GUIDELINE OF TO OTHER AGENCIE CONTRACTOR S REQUIRED AND INACCESSIBLE L UNUSED WIRING 	DEVICES, ETC. IDENTIFIE NTAIN CIRCUIT CONTINUIT ME CIRCUIT. XTURES INDICATED AS "E PLANS FOR NEW LOCATION LIGHT FIXTURES ADJACEN LL EXISTING WALL SWITCH RECESSARY TO ACCOMMON DEVICES, ETC. NOT IDEN DISTURBED, UNLESS NOTE NORK SHOWN LIGHT, NEW DRAWINGS ARE DIAGRAM DETERMINE THE LOCATION ONDITIONS SHOWN ARE F FERENCE ONLY. CONTRAC SITE PRIOR TO SUBMITTI JOCATION, REHABILITATION OWANCE OR CHANGE ORI RESPONSIBLE TO RELOC ETC. ANY EXISTING CON CAL EQUIPMENT WHICH IN T CONTINUATION REQUIRE C. SCHEDULED TO REMAIN GINEER IMMEDIATELY WHE RELOCATED DUE TO THIS MINGS OR WAS BURIED DIECT ALL WALLS, TRIM, HEN WORKING ON FINISHE C. SCHEDULED TO REMAIN GINEER IMMEDIATELY WHE RELOCATED DUE TO THIS MINGS OR WAS BURIED DIECT ALL WALLS, TRIM, HEN WORKING ON FINISHE C. SCHEDULED TO REMAIN GINEER IMMEDIATELY WHE RELOCATED DUE TO THIS MINGS OR WAS BURIED DIECT ALL WALLS, TRIM, HEN WORKING ON FINISHE C. SCHEDULED TO REMAIN GINEER IMMEDIATELY WHE RELOCATED DUE TO THIS MINGS OR WAS BURIED DIECT ALL WALLS, TRIM, HEN WORKING ON FINISHE C. SCHEDULED TO REMAIN GINEER IMMEDIATELY WHE C. RELOCATED DUE TO THIS MINGS OR WAS BURIED DIECT ALL WALLS, TRIM, HEN WORKING ON FINISHE C. SCHEDULED TO REMAIN GINEER IMMEDIATELY WHE C. RELOCATED DUE TO THIS MINGS OR WAS BURIED DIECT ALL WALLS, TRIM, HEN WORKING ON FINISHE C. SCHEDULED TO REMAIN GINEER IMMEDIATELY WHE C. RELOCATED DUE TO THIS MINGS OR WAS BURIED DIECT ALL WALLS, TRIM, HEN WORKING ON FINISHE C. SCHEDULED TO REMAIN AND NOT INTERFERE WI MUST BE PLANNED IN A G, CUTTING, ETC. REQUIR MUST BE PLANNED IN A G, CUTTING, ETC. REQUIR MINGS OF STRUCTURE. MATERIALS AND EQUIPMENT PROPERTY OF THE OWNE THE PREMISES AS DIREC TECT FROM DAMAGED. DI HE PREMISES AS DIREC TECT FROM DAMAGED. DI HE PREMISES AS DIRECT TECT FROM DAMAGED. DI HE STATE OF CALIFORNIA S HAVING JURISDICTION.	I ON NOT ED AS (X) TO BE DEM Y TO ALL DEVICES IN ER" ARE EXISTING TO NS. MAINTAIN CIRCUL TAREAS. H AND OCCUPANCY SI DATE NEW CONSTRUC ND OTHERWISE ON NEW ANS FOR EXISTING DE WORK SHOWN DARK. MMATIC ONLY. DO NO OF EQUIPMENT OR O TROM AVAILABLE RECO TROM AVAILABLE RECO TO SHALL VERIFY A NORK SHALL DEMOLI TO DEMOLE SHOULD TO DERONALL DEMOLI TO USERS OF ALL EXISTING TO DEMOLISH ELENT TO DEMOLISH EL	ES OLISHED BACK TO POINT ADJACENT AREAS BE RELOCATED. SEE T AND SWITCHING ENSOR LOCATIONS AND TION. OLISHED ARE EXISTING VOWER AND SIGNAL VICES TO BE RELOCATED T SCALE THE ELECTRICAL UTLETS. ORD DRAWINGS AND CTUAL EXISTING TION, ALTERATION, CLUDED IN CONTRACT. NO TED. M WALLS, CEILINGS, FITTINGS, FIXTURES OR NED REMODEL WORK. OUTLETS, FIXTURES, PMENT IS ENCOUNTERED I, OR NOT INDICATED ON IBEDDED IN STRUCTURE UTILITY LINES AND AMAGE TO THE SMALLER I, OR NOT INDICATED ON IBEDDED IN STRUCTURE UTILITY LINES AND AMAGE TO THE SMALLER I ALL SURFACES WHICH C. D FOR PROTECTION SHALL AGED SHALL BE NOT CAUSE I PREMISES AND ANY DEMOLITION WORK T CTRICAL WORK AS I EXPOSED BY REMOVAL CLIING, FLOORS, ETC., TO D MATERIALS SHALL LVAGED MATERIALS AND NATERIALS SHALL ILING, FLOORS, ETC., TO D MATERIALS SHALL IN SRUCES AND RUNS, REUSE AS SED CONDUIT IN DONED IN PLACE. REMOVA	I I I	CONSULTANT BRANCING CONTROL SWITCHESS CONTRACTORS SHALL REMAIN IN PLACE CONTROL WILTI- ECH SURFACE WALL MOUNTED COUR CONTROL SURTAURES REQUIREMENTS. PROVIDE DIMMER IN PROVIDE MULTI- ECH SURFACE WALL MOUNTED COUR CONTROL WILTI- ECH SURFACE WALL MOUNTED COUR CONTROL SURFACE CONTROL EQUIPMENT MANUFACTURERS REQUIRES REQUIREMENTS. PROVIDE DIMMER IN PROVIDE MULTI- ECH SURFACE WALL MOUNTED COUR CONTROL SURFACE CONTROL EQUIPMENT MANUFACTURERS REQUIREMENTS. PROVIDE MULTI- ECH SURFACE WALL MOUNTED COUR CONTROL SURFACE CONTROL EQUIPMENT MANUFACTURERS REQUIREMENTS. PROVIDE MULTI- ECH SURFACE WALL MOUNTED COUR CONTROL SURFACE CONTROL EQUIPMENT MANUFACTURERS REQUIREMENTS. PROVIDE MULTI- ECH SURFACE WALL MOUNTED COUR CONTROL EQUIPMENT MANUFACTURERS REQUIREMENTS. PROVIDE MULTI- ECH SURFACE WALL MOUNTED COUR CONTROL EQUIPMENT MANUFACTURERS REQUIREMENTS. PROVIDE MULTI- ECH SURFACE MAIL MOUNTED COUR CONTROL EQUIPMENT MANUFACTURERS REQUIREMENTS. APPROXIMATE LOCATION OF EXISTING CONTROL WIRING (LO SENSOR CONTROL EQUIPMENT MANUFACTURERS REQUIREMENTS. "MITERLOCAL SUB-CONTRACTOR SHALL PROWDE REFOR FUTURE AND LOCAL CONTROL DEVICES TO EXISTING CONDITIONAL LIGHTING CIRCUIT IN RESTROM ADDITIONAL LIGHTING CIRCUIT IN RESTROM ADDITIONAL LOAD WITH 0.11 KVA INPUT LOAD TO EXIST PAREL CURRENTLY SERVING FOR THIS ROOM/ARCA. I CONDITIONAL LOAD WITH 0.11 KVA INPUT LOAD TO EXIST PARE
.) NL "A" .) NL "A1"						LIGHTING FIXTURES SHALL BE PROVIDED W BE MOUNTED IN CEILING TYPES SPECIFIED AND DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR EXACT LIGHTING FIXTURES AND DEVICES. WALL MOUN WITH ARCHITECT AND CONFIRMED PRIOR TO RO RECESSED LIGHTING FIXTURES! A. SHALL BE PROVIDED WITH ALL REQUIRED AHJ AND CBC. B. LOCATED IN FIRE RATED CEILINGS SHALL TO CONFORM WITH MANUFACTURER REQUI ENCLOSURE. COVE MOUNTED FIXTURES SHAL BE PROVIDED OF THE COVE. VERIFY COVE DIMENSIONS ON ALL LED DIMMING ZONES SHALL BE PROVIDED VOLTAGE AND CONTROL CONDUCTORS TO MATE JNE OR LOW VOLTAGE.) CONFIRM WITH DRIVE LIGHTING FIXTURES PROVIDED WITH EMERGENCY CONSTANT HOT CONNECTION TO THE CHARGING OWER TO THE LUMINAIRE. WHERE NOT INSTA ZEMOTE LED CHARGING INDICATORS SHALL BE N. REFER TO ARCHITECTURAL REFLECTED CEILING AND CHEVRON REQUIREMENTS. DISCREPANCIES PLANS SHALL BE BROUGHT TO THE ATTENTION ORDER.
ARK UITE C, CARLSBAD C	E.COM CALIFORNIA 92010 (760) 438 5899	PAR	KING LO 2844 N DA	T AND SEC ENHANCE DAVIDSON ELE AVIDSON AVE., SAN BERNA	CURIT MENT MENTARY SCH ARDINO, CA 92	ADMIN BLDG & BLDG DEMOLITION AND REN LTG & DOWED DIANS
			SAN BE	RNARDINO CITY UNIFIED	SCHOOL DISTR	

<u>RS, INC.</u>

RUHNAU CLARKE ARCHITECTS

NOTES

IES, ETC. IN THIS ROOM/AREA SHALL CONDUIT AND WIRES BACK TO NEAREST INSIDE J-BOX ABOVE CEILING. IN PREPARATION FOR RE-CONNECTION RENOVATION PLAN. , ETC. IN THIS ROOM/AREA SHALL

SINGLE POLE 0-10 VOLT DIMMING NMAX MANUFACTURER OR EQUAL).) PER DIMMING CONTROL EQUIPMENT WHITE COLOR.

CUPANCY SENSOR (LEVITON WIRING (LOW-VOLTAGE WIRING) PER ERS REQÙIREMENTS.

JPANCY SENSOR (LEVITON CONTROLS OW-VOLTAGE WIRING) PER WALL UIREMENTS.

-BOX ABOVE CEILING. PROVIDE STING 20A-1P CB IN SPACE OF HIS AREA. FIELD VERIFY EXISTING OF PANELBOARD SHALL NOT EXCEED WITCHBOARD.

CONNECTION OF NEW LIGHTING CIRCUITS AS REQUIRED FOR A Y EXISTING CONDITIONS PRIOR TO

THE OCCUPANCY SENSOR UNDER THE FIXTURE SHALL BE ERGENCY BATTERY PACK. R CONNECTION TO ROOM CONTROLLED

(CAT-5e CABLE) PER RELAY PACK CONTINUATION AND CONNECT TO

OM AS REQUIRED. PROVIDE XISTING 20A-1P CB IN 120/208V FIELD VERIFY EXISTING PANEL NELBOARD SHALL NOT EXCEED 80% HBOARD/DIST. PANEL. L ROOM LIGHTING CONTROLS AS

NERAL NOTES

WITH ALL NECESSARY MOUNTING HARDWARE TO COORDINATED WITH ARCHITECTURAL

LOCATIONS AND MOUNTING HEIGHTS FOR ALL INTED FIXTURE HEIGHTS SHALL BE VERIFIED ROUGH IN.

) STRUCTURAL SUPPORTS AS REQUIRED BY THE BE PROVIDED WITH RATED ENCLOSURES SIZED JIRED CLEARANCES BETWEEN FIXTURE AND

D IN QUANTITIES TO COVER THE ENTIRE LENGTH N PLAN PRIOR TO FIXTURE ORDER. WITH A DEDICATED NEUTRAL CONDUCTOR, AND ATCH THE CONTROL TYPE (2-WIRE OR 3-WIRE /ER TYPE AND CONTROLS.

Y BATTERY PACKS SHALL BE PROVIDED WITH A G LEAD FROM THE SAME CIRCUIT PROVIDING ALLED WITHIN THE FIXTURE, LOCATIONS OF E VERIFIED AND APPROVED PRIOR TO ROUGH

G PLANS FOR EXIT SIGNS, NUMBER OF FACES ES BETWEEN ELECTRICAL AND ARCHITECTURAL N OF THE ARCHITECT PRIOR TO FIXTURE

	GENERAL NOTES		SUPROFESSIONAL SEP ARO
1.	SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR PLANNED DEMOLITION WALLS AND CEILINGS. AS WELL AS EXISTING-TO-REMAIN CEILINGS.		$\begin{array}{c} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{C} C$
2.	SEE MECHANICAL/PLUMBING DEMOLITION DRAWINGS FOR PLANNED MECHANICAL/PLUMBING EQUIPMENT DEMOLITION AND EXISTING-TO-REMAIN MECHANICAL/PLUMBING EQUIPMENT.		Exp. 09/30/20 + 0F CALLEOP
3.	CHANGE ALL OVER CURRENT PROTECTIVE DEVICES TO "OFF" POSITION WHICH SERVE LIGHTING, RECEPTACLES, EQUIPMENT, ETC. BEING DEMOLISHED TO POINT OF ORIGINATION.		STAMPS
	DEVICE AFTER DEMOLITION, PRIOR TO CHANGING "ON/OFF" POSITION.		
		_	
1	ALL EQUIPMENT DEVICES ETC. IDENTIFIED AS (X) TO BE DEMOLISHED BACK TO POINT	-	OMB ELECTRICAL ENGINEERS, INC.
	OF ORIGIN. MAINTAIN CIRCUIT CONTINUITY TO ALL DEVICES IN ADJACENT AREAS SERVICE BY SAME CIRCUIT.		8825 Research Drive Irvine, CA 92618 (949) 753-1553 Fax (949) 753-1992 E-Mail: mail@ombengrs.com
2.	ALL EXISTING FIXTURES INDICATED AS "ER" ARE EXISTING TO BE RELOCATED. SEE NEW LIGHTING PLANS FOR NEW LOCATIONS. MAINTAIN CIRCUIT AND SWITCHING CONTINUITY TO LIGHT FIXTURES ADJACENT AREAS.		OMB JOB# 19208
3.	FIELD VERIFY ALL EXISTING WALL SWITCH AND OCCUPANCY SENSOR LOCATIONS AND RELOCATE AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.		CONSULTANT BRANDING
5	TO REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE ON NEW POWER AND SIGNAL PLANS. REFERENCE BUILDING POWER PLANS FOR EXISTING DEVICES TO BE RELOCATED, RECIRCUITED, ETC.		PLAN NOTES
5. 6.	THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.	L1 EXIST UON. PROV PREP	ING SECURITY / INTRUSION DETECTION SYSTEM DEVICES ETC. IN DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRES BA IDE WIRENUT AT EXISTING WIRE INSIDE J-BOX. CONTRACTOR SH ARATION FOR RE-CONNECTION OF THE NEW OUTLETS/EQUIPMENT
7.	THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.	EXIST	ING CONDITIONS. ING SECURITY / INTRUSION DETECTION SYSTEM DEVICES ETC. IN E UON. MAINTAIN EXISTING CIRCUITS.
8.	CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES,	(3) NEW TO EX ROUG	SECURITY CAMERA AND INTRUSION DETECTION DEVICES IN THIS (ISTING SECURITY/INTRUSION DETECTION PANEL AS SHOWN. FIEI H—IN. OXIMATE LOCATION OF EXISTING SECURITY / INTRUSION DETECT
9.	EQUIPMENT, ETC. SCHEDULED TO REMAIN. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE		CEPT AND EXTEND CONDUIT AND CABLING TO NEW DEVICES AS LETE AND OPERABLE SECURITY SYSTEM. FIELD VERIFY EXISTING TY EXISTING SECURITY PANEL AND SIGNAL TERMINAL CABINET H EM. COORDINATE AND UPGRADE CONNECTION WITH EXISTING EQU
10.	WALLS. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH	PROV 6 FLUSH TO (E	DE ADDITIONAL EQUIPMENT AS NEEDED FOR A COMPLETE AND H MOUNTED IN CEILING, INTERCOM/PA SYSTEM SPEAKER, COMPLETE SIGNAL TERMINAL CABINET.
11.	ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.	(7) EXIST TO SI	ING INTRUSION DETECTION KEYPADS TO BE RELOCATED. TEMPO ECURITY PANEL TILL NEW WALLS ARE CONSTRUCTED AND READ
12.	DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.		
13.	DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED. PROVIDE BLANK COVER PLATES ON ALL OUTLETS EXPOSED BY REMOVAL		SIGNAL GENERAL
14.	RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.	1. PR TA	OVIDE CONDUITS WITH PULL TAPE/LINE WITH FIVE (5) PE COILED AT EACH END.
15.	ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER	2. CC FC CC	ONDUIT BEND RADII SHALL BE A MINIMUM OF SIX (6) R CONDUITS 2" AND UNDER AND TEN (10) TIMES THE ONDUITS GREATER THAN 2".
16.	OTHER AGENCIES HAVING JURISDICTION.	BE	YOND FLOOR SURFACE. REFERENCE ELECTRICAL SPECTRICAL SPE
	REQUIRED AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED WIRING.	4. AL	L CONDUIT PENETRATIONS SHALL BE SEALED WITH ME REVENT THE INFILTRATION OF GAS AND/OR WATER.
		SF	ECIFICATION REQUIREMENTS. CONDUITS SHALL BE TA ECIFICATION REQUIREMENTS. CONDUITS SHALL BE TA E OTHER END AND DISTANCE OF CONDUIT RUN.
		6. AL AL 7. PE	L BELOW GRADE OR IN-SLAB MOUNTED CONDUITS SH L WATER AND DEBRIS PRIOR TO THE INSTALLATION O INETRATIONS THROUGH FIRE RATED WALLS SHALL BE
		8. AL	L DEVICES MOUNTED BACK TO BACK ON COMMON WA
		9. WH	PROVED SOUND PROOF BACKING. IEN EXPOSED CEILING OR OPEN GRID CONDITIONS EXIS OVIDE:
		A A F	ALL BRANCH CIRCUITS TO BE INSTALLED IN EMT. ALL BRANCH CIRCUITS SHALL BE ROUTED PARALLEL TO RACKED NEATLY IN GROUPS OF MULTIPLE PATHWAYS.
		A	LL LOW VOLTAGE CABLES SHALL BE: A. INSTALLED IN EMT CONDUIT PATHWAYS <u>OR</u> B. INSTALLED NEATLY IN CABLE MANAGEMENT (
		E	WIREWAY SUPPORTED INDEPENDENTLY FROM XPOSED LOW VOLTAGE CABLING IN OPEN TYPE CEILIN
			PRINGS, J-HOOKS OR SIMILAR APPARATUS WILL NOT PPROVED IN WRITING BY ARCHITECT/ENGINEER PRIOR NSTALLATION. CONTRACTOR SHALL INCLUDE AN ALLO HE INSTALLATION OF LOW VOLTAGE CABLES IN OPEN
		10. EX SU AE	POSED CABLE/CONDUCTORS INSTALLED IN A PLENUM ICH ENVIRONMENT AND INSTALLATION SHALL CONFORM DOPTED, ARTICLE 300.22(C).

PARKING LOT AND SECURITY ADMIN BUILDING - PARTIAL ENHANCEMENTS DAVIDSON ELEMENTARY SCHOOL 2844 N DAVIDSON AVE., SAN BERNARDINO, CA 92405 SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

DEMOLITION AND RENOVATION SECURITY PLANS

RUHNAU C L A R K E ARCHITECTS

TES

VICES ETC. IN THIS ROOM/AREA SHALL BE DEMOLISHED AND WIRES BACK TO NEAREST J-BOX ABOVE CEILING. TRACTOR SHALL MAINTAIN CIRCUIT CONTINUITY IN S/EQUIPMENTS OR MARK AS SPARE. FIELD VERIFY /ICES ETC. IN THIS ROOM/AREA SHALL REMAIN IN CES IN THIS ROOM/AREA SHALL BE RE-CONNECTED SHOWN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SION DETECTION CIRCUIT IN J-BOX ABOVE CEILING. DEVICES AS SHOWN. PROVIDE RE-CONNECTION FOR A RIFY EXISTING CONDITIONS. L CABINET HEAD-END EQUIPMENT FOR VOICE/PAGING EXISTING EQUIPMENT MANUFACTURERS AS REQUIRED. IPLETE AND OPERABLE SIGNAL SYSTEM. AKER, COMPLETE WITH SPEAKER CABLE AND HOMERUN TED. TEMPORAIRLY RELOCATE INTO OFFICE ADJACENT D AND READY FOR FINAL INSTALLATION LOCATION. RAL NOTES FIVE (5) FEET OF ADDITIONAL PULL F SIX (6) TIMES THE INTERNAL DIAMETER TIMES THE INTERNAL DIAMETER FOR H FLOOR SHALL TERMINATE MINIMUM 3" RICAL SPECIFICATIONS FOR ADDITIONAL WITH MECHANICAL SEALS OR PLUGS TO WATER. NDUIT AND PULL BOX PER IDENTIFICATION ALL BE TAGGED WITH THE LOCATION OF RUN. NDUITS SHALL BE CLEAN AND FREE OF LLATION OF SYSTEM CABLING. SHALL BE PROTECTED WITH AN APPROVED HAN THE RATING OF THE WALL BEING OMMON WALLS SHALL BE INSTALLED IN OR PROVIDED WITH PUTTY OR ANOTHER TIONS EXIST, CONTRACTOR SHALL EMT. ARALLEL TO BUILDING STRUCTURES AND ATHWAYS. IWAYS <u>OR</u> NAGEMENT OPEN BASKET OR LADDER TYPE NTLY FROM STRUCTURE ABOVE. YPE CEILING APPLICATIONS INSTALLED ON WILL NOT BE ACCEPTED UNLESS EER PRIOR TO ANY ROUGH IN OR E AN ALLOWANCE IN HIS BASE BID FOR IN OPEN CEILINGS AS DESCRIBED. A PLENUM SPACE SHALL BE LISTED FOR _ CONFORM TO NEC, OR CEC WHERE

	NORTH 2 EFA2.0	DEN SCALE: 1
	A WEW LOCATION OF REMOTE ANNUNICATOR PANEL. PROVDE NEW BACKBOX/CABINET FOR SINGLE DISPLAY ANNUNICATOR MOUNT ADJACENT TO FIRE EXTINGUISHER CABINET. C C	
PROJECT No. : 1-78-26 5/24/2020 3:10 PM	NORTH	REN SCALE: 1

MOLITION FIRE ALARM PLAN

1/8"=1'-0"

NOVATION FIRE ALARM PLAN 1/8"=1'-0"

-	1.	SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR PLANNED DEMOLITION WALLS AND		LEED PROFESSIONATION CENSED ARCATION
	2.	CEILINGS, AS WELL AS EXISTING-TO-REMAIN CEILINGS. SEE MECHANICAL/PLUMBING DEMOLITION DRAWINGS FOR PLANNED MECHANICAL/PLUMBING		₩ Exp. 09/30/20 ★ * No. C-21340 x Exp. 10-31-19 x
	.3	EQUIPMENT DEMOLITION AND EXISTING-TO-REMAIN MECHANICAL/PLUMBING EQUIPMENT.		ATE OF CALIFORNIA
	5.	LIGHTING, RECEPTACLES, EQUIPMENT, ETC. BEING DEMOLISHED TO POINT OF ORIGINATION. ENSURE NO LOADS WILL REMAIN BEING SERVED BY SAID OVER CURRENT PROTECTIVE DEVICE AFTER DEMOLITION, PRIOR TO CHANGING "ON/OFF" POSITION.		STAMPS
		DEMOLITION NOTES	_	
	1.	ALL EQUIPMENT, DEVICES, ETC. IDENTIFIED AS (X) TO BE DEMOLISHED BACK TO POINT OF ORIGIN. MAINTAIN CIRCUIT CONTINUITY TO ALL DEVICES IN ADJACENT AREAS SERVICE BY SAME CIRCUIT.		8825 Research Drive Irvine, CA 92618 (949) 753-1553 Fax (949) 753-1992
	2.	ALL EXISTING FIXTURES INDICATED AS "ER" ARE EXISTING TO BE RELOCATED. SEE NEW LIGHTING PLANS FOR NEW LOCATIONS. MAINTAIN CIRCUIT AND SWITCHING CONTINUITY TO LIGHT FIXTURES ADJACENT AREAS.		É-Mail: mail@ombengrs.com OMB JOB# 19208
	3.	RELOCATE AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.		CONSULTANT BRANDING
	4. 5	TO REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE ON NEW POWER AND SIGNAL PLANS. REFERENCE BUILDING POWER PLANS FOR EXISTING DEVICES TO BE RELOCATED, RECIRCUITED, ETC.		PLAN NOTES
	6.	THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.		EXISTING FIRE ALARM DEVICES AND ASSOCIATED CONDUIT AND CABLING, ETC. DEMOLISHED UON. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRES WIRENUT AT EXISTING WIRE INSIDE J-BOX. CONTRACTOR SHALL MAINTAIN CIRC
	7.	THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO	2	EXISTING FIRE ALARM CONTROL PANEL "FACP", INCLUDING (2) POWER SUPPLIE CABINET TO BE RELOCATED. INTERCEPT EXISTING CONDUIT WITH NEW J-BOX/O CONDUIT AND CABLING TO NEW LOCATION INDICATED. FIRE ALARM CABINET RE PLACED IN FINAL LOCATION BE FULLY OPERATIONAL PRIOR TO DEMOLITION AND
	8.	ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS. FIXTURES	3	NEW LOCATION OF EXISTING FIRE ALARM CONTROL PANEL "FACP". RE-CONNECT O INCLUDING EXISTING 120V POWER RE-CONNECTION AS REQUIRED FOR A FULLY FU FIELD VERIFY EXISTING CONDITIONS.
	9.	EQUIPMENT, ETC. SCHEDULED TO REMAIN. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE	4	EXISTING FIRE ALARM SYSTEM DEVICES AND EQUIPMENT IN THIS ROOM/AREA EXISTING CIRCUITS AND CONDITIONS. MOUNT HEAT DETECTOR IN ATTIC SPACE ABOVE CEILING AS REQUIRED.
	10.	WALLS. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH	6 7	ROUTE TO NEAREST EXISTING FIRE ALARM DEVICES IN THIS ROOM. MAINT, FIELD VERIFY EXISTING CONDITIONS. MODIFY AND RE-PROGRAM RELOCATED FIRE ALARM CONTROL PANEL "FAC
	11.	EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.		PROVIDE ADDITIONAL EQUIPMENT AS NEEDED FOR A COMPLETE AND OPER
	12.	DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.		
	13. 14.	DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED. PROVIDE BLANK COVER PLATES ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OR DEVICES. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO		
	15.	ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL	1	FIRE ALARM GENERAL
		EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.	2.	WITH APPLICABLE CODES PRIOR TO ROUGH-IN. PENETRATIONS THRU FIRE RATED WALLS SHALL BE PROTECT STOP SYSTEM EQUAL TO OR GREATER THAN THE RATING OF PENETRATED
	16.	CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRED AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE	3.	WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS EXIST, C
		UNUSED WIRING.	1. 2. 3.	ALL BRANCH CIRCUITS TO BE INSTALLED IN EMT. ALL BRANCH CIRCUITS SHALL BE ROUTED PARALLEL TO BUIL RACKED NEATLY IN GROUPS OF MULTIPLE PATHWAYS. ALL LOW VOLTAGE CABLES SHALL BE: a. INSTALLED IN EMT CONDUIT PATHWAYS <u>OR</u>
				EXPOSED LOW VOLTAGE CABLING IN OPEN TYPE CEILING APP D-RINGS, J-HOOKS OR SIMILAR APPARATUS WILL NOT BE A IN WRITING BY ARCHITECT/ENGINEER PRIOR TO ANY ROUGH
				CONTRACTOR SHALL INCLUDE AN ALLOWANCE IN HIS BASE E OF LOW VOLTAGE CABLES IN OPEN CEILINGS AS DESCRIBED.
				FIRE ALARM WIRING LE
				Z – 3/4"C. WITH 2 #16 UNSHIELDED TWISTED PAIR (INITIATING A – 3/4"C. WITH 2 #12 (STROBE CIRCUIT)
				V – 3/4"C. WITH 2 #12 (HORN CIRCUIT)
				AV – 3/4"C. WITH 4 #12 (HORN & STROBE CIRCUITS) V,Z – 3/4"C. WITH 2 #16 UNSHIELDED TWISTED PAIR (INITIATIN
				(NOTIFICATION CIRCUIT) A,V,Z – 3/4"C. WITH 2 #16 UNSHIELDED TWISTED PAIR (INITIAT
			· · ·	AND 4 #12 (NOTIFICATION CIRCUIT)

 PARKING LOT AND SECURITY

 ENHANCEMENTS

 DAVIDSON ELEMENTARY SCHOOL

 DAVIDSON VEL., SAN BERNARDINO, CA 92405

 SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

ADMIN BUILDING - PARTIAL
DEMOLITION & RENOVATION
FIRE ALARM PLANS

RUHNAU CLARKE ARCHITECTS

1-22-72