

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

328



FROM: Economic Development Agency

SUBMITTAL DATE:
December 8, 2011

SUBJECT: Idyllwild Library Project-Award of Construction Agreement

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve Addenda 1-3 issued during the bid period;
2. Accept and award the construction contract to the lowest, responsive, and responsible bidder, Hamel Contracting, Inc. in the amount of \$1,916,400; and
3. Approve the project budget of \$2,208,040.

BACKGROUND: On October 4, 2011 the Board of Supervisors approved the plans and specifications and authorized the Clerk of the Board to advertise the Notice Inviting Bids.

(Continued)

REVIEWED BY CIP
Christopher Hans
Christopher Hans

Robert Field
Robert Field
Assistant County Executive Officer/EDA

FINANCIAL DATA	Current F.Y. Total Cost:	\$ 2,208,040	In Current Year Budget:	Yes
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	No
	Annual Net County Cost:	\$ 0	For Fiscal Year:	2011/12

COMPANION ITEM ON BOARD OF DIRECTORS AGENDA: No	
SOURCE OF FUNDS: Community Development Block Grant (CDBG)	Positions To Be Deleted Per A-30 <input type="checkbox"/>
	Requires 4/5 Vote <input type="checkbox"/>

C.E.O. RECOMMENDATION: APPROVE
BY: *Jennifer L. Sargent*
County Executive Office Signature Jennifer L. Sargent

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Buster, seconded by Supervisor Tavaglione and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Buster, Tavaglione and Benoit
Nays: None
Absent: Stone and Ashley
Date: December 20, 2011
xc: EDA, Auditor, CIP

Kecia Harper-Ihem
Clerk of the Board
By: *Kecia Harper-Ihem*
Deputy

Prev. Agn. Ref.: 3.12 of 10/4/11, 3.19 of 3/15/11 | District: 3 | Agenda Number **3.3**

ATTACHMENTS FILED
WITH THE CLERK OF THE BOARD

FISCAL PROCEDURES APPROVED
 FORM APPROVED COUNTY COUNSEL
 PAUL ANGULO, CPA, AUDITOR-CONTROLLER
 BY: *Paul Angulo*
 DATE: 12/17/11
 MARSHAL L. VICTOR

Consent
 Policy
 Consent
 Policy

BACKGROUND: (Continued)

On November 3, 2011, the Clerk received and opened thirteen bids. Hamel Contracting, Inc. was the lowest bidder in terms of the price and submitted all the required federal certifications. County Counsel concurs with this finding and determines Hamel Contracting, Inc., as the lowest responsive bidder. Staff recommends that the Board approve and award the contract to the lowest qualified and responsive bidder, Hamel Contracting, Inc., in the amount of \$1,916,400, and approve the project budget as follows:

Construction:	\$1,916,400
Soils, Inspections & Fees:	\$ 20,000
Utilities & Miscellaneous:	\$ 50,000
Contingency (10%):	\$ 191,640
Project Management:	\$ 30,000
Total:	\$2,208,040

The project is exempt from the provisions of CEQA pursuant to the CEQA Guidelines, Section 15061, General Rule, Section 15301 and Class 1 – Existing Facilities, a Notice of Exemption was filed with the County Clerk on July 19, 2011, for the 30-day public review period. The project has therefore complied with the provisions of CEQA and no additional environmental analysis is required. In accordance with the National Environmental Policy Act (NEPA), the proposed actions are categorically excluded pursuant to 24 *CFR Part 58.34(a) (10)* because the project involves a renovation and revitalization of an existing building.

Attachments:

1. Performance Bond
2. Payment Bond
3. Certificate of Insurance
4. Construction Agreement

AGREEMENT FORM

THIS AGREEMENT, entered into this 20th day of December, 2011, by and between Hamel Contracting, Inc _____, hereinafter called the "Contractor", and the County of Riverside hereinafter called the "Owner".

WITNESSETH: That the parties hereto have mutually covenanted and agreed as follows:

CONTRACT: The Complete Contract includes all of the Contract Documents, to wit: The Notice Inviting Bids, the Instructions to Bidders, the Contractor's Proposal, Wage Schedule, Payment and Performance Bonds, the Plans and Specifications plus any Addenda thereto, the General Conditions, the Supplementary General Conditions, if applicable and this Agreement. All Contract Documents are intended to cooperate and be complimentary so that any work called for in one and not mentioned in the other, or vice versa, is to be executed the same as if mentioned in all Contract Documents.

STATEMENT OF WORK: The Contractor hereby agrees to furnish all tools, equipment, services, apparatus, facilities, transportation, labor and materials for the **Idyllwild Library Project (FM0819000056)**. In strict accordance with the Plans and Specifications dated July 2011 prepared by HMC Architects & County of Riverside hereinafter called the "Architect", including Addenda thereto as listed in the Contractor's Proposal, all of which are made a part hereof.

TIME FOR COMPLETION: The work shall be commenced on a date to be specified in a written order of the Architect and shall be completed within one hundred eighty days (180) calendar days from and after said date. It is expressly agreed that except for extensions of time duly granted in the manner and for the reasons specified in the General Conditions, time shall be of the essence.

COMPENSATION TO BE PAID TO CONTRACTOR: The Owner agrees to pay and the Contractor agrees to accept in full consideration for the performance of the Contract, subject to additions and deductions as provided in the General Conditions, the sum of One Million Nine Hundred Sixteen Thousand Four Hundred and xx/100 dollars (\$ 1,916,400.00) being the total of the base bid plus the following addenda: 1, 2, 3. The sum is to be paid according to the schedule as provided in the General Conditions.

Pursuant to Labor Code, Section 1861, the Contractor gives the following certification: I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract.

SPECIAL FEDERAL REQUIREMENTS:

1. Contractor and Owner do hereby acknowledge that this project will be partially or fully funded with Community Development Block Grant (CDBG) funds [24 CFR 570] and is therefore subject to applicable Federal procurement, labor, environmental, equal opportunity, and other regulations.
2. Contractor shall maintain and keep books and records on a current basis, recording all transactions pertaining to this agreement in a form in accordance with generally acceptable accounting principles. Said books and records shall be made available to the County, the State of California, the Federal government, and to any authorized representative thereof for the purposes of audit at all reasonable times and places. All such books and records shall be retained for such periods of time as required by law, provided, however, notwithstanding any shorter periods of retention, all books, records, and supporting detail shall be retained for a period of at least four (4) years after the expiration of the term of this Agreement.
3. Contractor shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC a-276, a-5) and the implementation regulations thereof. Contractor shall comply with the U.S. Department of Housing and Urban Development's Federal Labor Standards Provisions (HUD 4010). Contractor acknowledges that the applicable Wage Determination for this project is:

General Decision Number: CA 20080036
Modification Number: 36
Date: 09/30/2011

2288004
Riverside County Economic Dev. Agency
Idyllwild Library Project (FM0819000056)

DEC 20 2011 3.3

4. **Section 3 Compliance:** The Contractor hereby acknowledges that this federally-funded project is subject to Section 3 of the *Housing and Urban Development Act of 1968* [12 U.S.C. 1701u and 24 CFR Part 135] and agrees to the following:
- A. The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.
 - B. The parties to this contract agree to comply with HUD's regulations in 24 CFR Part 135, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the Part 135 regulations.
 - C. The Contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.
 - D. The Contractor agrees to include this Section 3 clause in every subcontract subject to compliance with regulations in 24 CFR Part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR Part 135. The Contractor will not subcontract with any subcontractor where the Contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR Part 135.
 - E. The Contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the Contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR Part 135 require employment opportunities to be directed, were not filled to circumvent the Contractor's obligations under 24 CFR Part 135.
 - F. Noncompliance with HUD's regulations in 24 CFR Part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.
 - G. With respect to work performed in connection with Section 3 covered Indian housing assistance, Section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of Section 3 and Section 7(b) agree to comply with Section 3 to the maximum extent feasible, but not in derogation of compliance with Section 7(b).

IN WITNESS WHEREOF, the parties hereto on the day and year first above written have executed this agreement in four (4) counterparts.

Type of Contractor's organization: Corporation

If other than individual or corporation, list names of all members who have authority to bind firm.

Firm Name: Hamel Contracting, Inc

Address: 26341 Jefferson Ave, Suite B Murrieta, CA 92562

Contractor's License No.: 919635

IF OTHER THAN CORPORATION EXECUTE HERE

Signature: _____

Title: _____

IF CORPORATION, FILL OUT FOLLOWING AND EXECUTE

Name of President of Corporation: Grant J. Hamel

Name of Secretary of Corporation: Alison C Hamel

Corporation is organized under the laws of State of California

Signature: _____

Title: Grant J. Hamel - President

Owner: COUNTY OF RIVERSIDE

Signature: Bob Buster

Title: Chairman - Board of Supervisors BOB BUSTER

Attest: Clerk - Board of Supervisors Keoia Harper-Inem

By: Kalvin Kingston

Title: Deputy

Affix Seal
If
Corporation

FORM APPROVED COUNTY COUNSEL

BY: M. Victor 12/7/11
MARSHAL VICTOR DATE

2288004
Riverside County Economic Dev. Agency
Idyllwild Library Project (FM08190000056)

DEC 20 2011 3.3



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
11/29/2011

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Michael Ehrenfeld Company 2655 Camino Del Rio North #200 San Diego CA 92108	CONTACT NAME: Terry Difalco PHONE (A/C No. Ext): (619) 683-9990 FAX (A/C No.): (619) 683-9999 E-MAIL ADDRESS: terryd@ehrenfeldinsurance.com
	INSURER(S) AFFORDING COVERAGE
INSURED Hamel Contracting, Inc. 26341 Jefferson Ave. Ste. B Murrieta CA 92562	INSURER A: Mt. Hawley Insurance Company 37974
	INSURER B: American States Insurance 19704
	INSURER C:
	INSURER D:
	INSURER E:
INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** 2011 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WORD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR		MGL0173364	5/1/2011	5/1/2012	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 50,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPOP AGG \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC					
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS		01CI35780720	7/7/2011	7/7/2012	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Medical payments \$ 5,000
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/>	N/A			WC STATUTORY LIMITS OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
B	Auto Physical Damage		01CI35780720	7/7/2011	7/7/2012	\$500 Deductible Comp \$500 Deductible Coll

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
 RE: Idyllwild Library Project FM08190000056- County of Riverside is Additional Insured per attached general liability form CGL216(04/98) and auto liability form CA00011001. Waiver of Subrogation applies per attached general liability form CG24041093 and auto Liability form CA00011001.
 *SEE COMMON POLICY CONDITIONS AND INFORMATION REGARDING THE ACORD CERTIFICATE OF INSURANCE FOR CANCELLATION PROVISION

CERTIFICATE HOLDER County of Riverside 4080 Lemon Street 1st Floor Annex Riverside, CA 92501	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE Pat Reilly/TERRYD

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS
(FORM C)**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

(If no entry appears below, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that insured by or for you.

To the extent required under contract, this policy will apply as primary insurance to additional insureds scheduled below and other insurance which may be available to such additional insureds will be non-contributory.

Section IV., Condition 4., of this policy is amended accordingly.

SCHEDULE

Name of Person or Organization: As per Certificate

As Required by Written Contract

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.
**WAIVER OF TRANSFER RIGHTS OF RECOVERY
AGAINST OTHERS TO US**

This endorsement modifies insurance provided under the following:
COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization: As per certificate holder

"Any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy"

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement)

The TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US condition (Section IV - COMMERCIAL GENERAL LIABILITY CONDITIONS) is amended by the addition of the following:

We waive any right of recovery we may have against the person or organization shown in the Schedule above because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with a person or organization and included in "products-completed operations hazard". This waiver applies only to the person or organization shown in the Schedule above.

SECTION II - LIABILITY COVERAGE

A. Coverage

We will pay all sums an "insured" legally must pay as damages because of "bodily injury" or "property damage" to which this insurance applies; caused by an "accident" and resulting from the ownership, maintenance or use of a covered "auto".

We will also pay all sums an "insured" legally must pay as a "covered pollution cost or expense" to which this insurance applies; caused by an "accident" and resulting from the ownership, maintenance or use of covered "autos". However, we will only pay for the "covered pollution cost or expense" if there is either "bodily injury" or "property damage" to which this insurance applies that is caused by the same "accident".

We have the right and duty to defend any "insured" against a "suit" asking for such damages or a "covered pollution cost or expense". However, we have no duty to defend any "insured" against a "suit" seeking damages for "bodily injury" or "property damage" or a "covered pollution cost or expense" to which this insurance does not apply. We may investigate and settle any claim or "suit" as we consider appropriate. Our duty to defend or settle ends when the Liability Coverage Limit of Insurance has been exhausted by payment of judgments or settlements.

Who Is An Insured

The following are "insureds":

- a. You for any covered "auto".
- b. Anyone else while using with your permission a covered "auto" you own, hire or borrow except:
 - (1) The owner or anyone else from whom you hire or borrow a covered "auto". This exception does not apply if the covered "auto" is a "trailer" connected to a covered "auto" you own.
 - (2) Your "employee" if the covered "auto" is owned by that "employee" or a member of his or her household.
 - (3) Someone using a covered "auto" while he or she is working in a business of selling, servicing, repairing, parking or storing "autos" unless that business is yours.

(4) Anyone other than your "employees", partners (if you are a partnership), members (if you are a limited liability company), or a lessee or borrower or any of their "employees", while moving property to or from a covered "auto".

(5) A partner (if you are a partnership), or a member (if you are a limited liability company) for a covered "auto" owned by him or her or a member of his or her household.

c. Anyone liable for the conduct of an "insured" described above but only to the extent of that liability.

COMMERCIAL AUTO

BUSINESS AUTO COVERAGE FORM

5. Other Insurance

a. For any covered "auto" you own, this Coverage Form provides primary insurance. For any covered "auto" you don't own, the insurance provided by this Coverage Form is excess over any other collectible insurance. However, while a covered "auto" which is a "trailer" is connected to another vehicle, the Liability Coverage this Coverage Form provides for the "trailer" is:

(1) Excess while it is connected to a motor vehicle you do not own.

(2) Primary while it is connected to a covered "auto" you own.

b. For Hired Auto Physical Damage Coverage, any covered "auto" you lease, hire, rent or borrow is deemed to be a covered "auto" you own. However, any "auto" that is leased, hired, rented or borrowed with a driver is not a covered "auto".

c. Regardless of the provisions of Paragraph a. above, this Coverage Form's Liability Coverage is primary for any liability assumed under an "insured contract".

d. When this Coverage Form and any other Coverage Form or policy covers on the same basis, either excess or primary, we will pay only our share. Our share is the proportion that the Limit of insurance of our Coverage Form bears to the total of the limits of all the Coverage Forms and policies covering on the same basis.

The following is added to 5.

We waive any right of recovery we may have against any additional insured under Coverage A. 1. Who Is An insured g., but only as respects loss arising out of the operation, maintenance or use of a covered "auto" pursuant to the provisions of the "insured contract", written agreement, or permit.

COMMON POLICY CONDITIONS

All Coverage Parts included in this policy are subject to the following conditions.

A. Cancellation

1. The first Named Insured shown in the Declarations may cancel this policy by mailing or delivering to us advance written notice of cancellation.
2. We may cancel this policy by mailing or delivering to the first Named Insured written notice of cancellation at least:
 - a. 10 days before the effective date of cancellation if we cancel for nonpayment of premium; or
 - b. 30 days before the effective date of cancellation if we cancel for any other reason.
3. We will mail or deliver our notice to the first Named Insured's last mailing address known to us.
4. Notice of cancellation will state the effective date of cancellation. The policy period will end on that date.
5. If this policy is cancelled, we will send the first Named Insured any premium refund due. If we cancel, the refund will be pro rata. If the first Named Insured cancels, the refund may be less than pro rata. The cancellation will be effective even if we have not made or offered a refund.
6. If notice is mailed, proof of mailing will be sufficient proof of notice.

B. Changes

This policy contains all the agreements between you and us concerning the insurance afforded. The first Named Insured shown in the Declarations is authorized to make changes in the terms of this policy with our consent. This policy's terms can be amended or waived only by endorsement issued by us and made a part of this policy.

C. Examination Of Your Books And Records

We may examine and audit your books and records as they relate to this policy at any time during the policy period and up to three years afterward.

D. Inspections And Surveys

1. We have the right to:
 - a. Make inspections and surveys at any time;

- b. Give you reports on the conditions we find; and
 - c. Recommend changes.

2. We are not obligated to make any inspections, surveys, reports or recommendations and any such actions we do undertake relate only to insurability and the premiums to be charged. We do not make safety inspections. We do not undertake to perform the duty of any person or organization to provide for the health or safety of workers or the public. And we do not warrant that conditions:

- a. Are safe or healthful; or
- b. Comply with laws, regulations, codes or standards.

3. Paragraphs 1. and 2. of this condition apply not only to us, but also to any rating, advisory, rate service or similar organization which makes insurance inspections, surveys, reports or recommendations.

4. Paragraph 2. of this condition does not apply to any inspections, surveys, reports or recommendations we may make relative to certification, under state or municipal statutes, ordinances or regulations, of boilers, pressure vessels or elevators.

E. Premiums

The first Named Insured shown in the Declarations:

1. Is responsible for the payment of all premiums; and
2. Will be the payee for any return premiums we pay.

F. Transfer Of Your Rights And Duties Under This Policy

Your rights and duties under this policy may not be transferred without our written consent except in the case of death of an individual named insured.

If you die, your rights and duties will be transferred to your legal representative but only while acting within the scope of duties as your legal representative. Until your legal representative is appointed, anyone having proper temporary custody of your property will have your rights and duties but only with respect to that property.

MICHAEL EHRENFELD COMPANY

Insurance Agents & Brokers

Information Regarding the ACORD 25 Certificate of Insurance

In the past, Certificates of Insurance have been frequently misunderstood and incorrectly used with the assumption that a certificate could and did convey rights to the Certificate Holder. The State Departments of Insurance and ACORD, the publisher of the Certificate of Insurance, have sought to correct and end these misunderstandings and misuses of the Certificate form. In September 2009, ACORD revised the ACORD 25 Certificate of Insurance form. One of the major changes was the removal of the cancellation notice provision

A certificate is informational only. As stated on the actual certificate, it conveys no rights to the certificate holder. Nor does it amend or modify the actual insurance policy. Therefore, we cannot modify a certificate to provide coverage, including cancellation provisions. If coverage is not on the policy it does not exist, even if it is on a certificate.

An insurance policy is a contract between the policy holder and the insurance company, not a third party such as a lender, contractor, landlord, etc. Notice of cancellation is a policy right governed by the cancellation provisions in the policy, and between the policy holder and insurance company.

Special cancellation provisions often requested by third parties, such as a 30 day notice of cancellation, cannot be complied with for the reasons that the insurer will not give notice of cancellation to a third party, there is no insurance policy language to provide such notice, and it would be impossible to meet such a requirement under certain circumstances. For example, the insured can cancel immediately, so it would be impossible for the insurer to give the notice requested. State law also grants the insurance company the right to cancel for reasons such as nonpayment of premium with less notice than is often requested.

Using an older edition of the certificate would be a violation of ACORD's licensing, copyright, and the California Department of Insurance regulations.

ACORD forms are designed to be completed, not altered. ACORD's Forms Instruction Guide says that a certificate should not be used "To waive rights...To quote wording from a contract...To quote any wording which amends a policy unless the policy itself has been amended." In addition, our insurance company contracts only allow us to issue unaltered ACORD forms.

For the reasons above, if our agency were to issue a certificate that provides the cancellation notice requested by the certificate holder, we would do so with the full knowledge that it would be impossible to actually give that amount of notice. As such, the certificate could be alleged to constitute a misrepresentation or fraud which could subject our agency and staff to serious civil and criminal penalties.

There has been a long history of misunderstanding about the correct use of Certificates of Insurance. We appreciate your understanding of the legal and ethical restrictions on our ability to comply with certain certificate requests.



P.O. BOX 420807, SAN FRANCISCO, CA 94142-0807

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

ISSUE DATE: 12-06-2011

GROUP:
POLICY NUMBER: 1844877-2011
CERTIFICATE ID: 23
CERTIFICATE EXPIRES: 04-01-2012
04-01-2011/04-01-2012
THIS CERTIFICATE SUPERSEDES AND CORRECTS
CERTIFICATE # 22 DATED 12-06-2011
JOB: IDYLLWILD LIBRARY PROJECT

COUNTY OF RIVERSIDE
4080 LEMON ST
RIVERSIDE CA 92501-3809

SD

This is to certify that we have issued a valid Workers' Compensation Insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon 10 days advance written notice to the employer.

We will also give you 10 days advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policy listed herein. Notwithstanding any requirement, term or condition of any contract or other document with respect to which this certificate of insurance may be issued or to which it may pertain, the insurance afforded by the policy described herein is subject to all the terms, exclusions, and conditions, of such policy.

James Neary
Authorized Representative

Thomas Elone
President and CEO

EMPLOYER'S LIABILITY LIMIT INCLUDING DEFENSE COSTS: \$1,000,000 PER OCCURRENCE.

ENDORSEMENT #1800 - HANEL, GRANT J PRESIDENT - EXCLUDED.

ENDORSEMENT #1800 - HANEL, ALISON TREASURER - EXCLUDED.

ENDORSEMENT #1800 - BUDD, MICHAEL A SECRETARY - EXCLUDED.

ENDORSEMENT #2570 ENTITLED WAIVER OF SUBROGATION EFFECTIVE 2011-04-01 IS ATTACHED TO AND FORMS A PART OF THIS POLICY. THIRD PARTY NAME: COUNTY OF RIVERSIDE

EMPLOYER

HANEL CONTRACTING INC
28341 JEFFERSON AVE STE B
MIRRIETA CA 92582

SD

[B17,SD]

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

No. 5193

State of California)

County of SAN DIEGO)

On 11/29/2011 before me, MICHELLE M. BASUIL, NOTARY PUBLIC,
personally appeared MARK D. IATAROLA

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Michelle M. Basuil
Signature of Notary

OPTIONAL SECTION
CAPACITY CLAIMED BY SIGNER

Though statute does not require the Notary to fill in the data below, doing so may prove invaluable to persons relying on the document.

- INDIVIDUAL
- CORPORATE OFFICER(S)

TITLE(S)

- PARTNER(S) LIMITED GENERAL
- ATTORNEY-IN-FACT
- TRUSTEE(S)
- GUARDIAN/CONSERVATOR
- OTHER: _____

SIGNER IS REPRESENTING:

NAME OF PERSON(S) OR ENTITY(IES)

THIS CERTIFICATE MUST BE ATTACHED TO THE DOCUMENT DESCRIBED AT RIGHT:

Though the data requested here is not required by law, it could prevent fraudulent reattachment of this form.

OPTIONAL SECTION

TITLE OR TYPE OF DOCUMENT _____

NUMBER OF PAGES _____ DATE OF DOCUMENT _____

SIGNER(S) OTHER THAN NAMED ABOVE _____

EXECUTED IN FOUR COUNTERPARTS
BOND NO. 2148110
PREMIUM: \$19,423.00
**Premium Is For Contract Term
And Is Subject To Adjustment
Based On Final Contract Price**

PERFORMANCE BOND

The makers of this Bond, HAMEL CONTRACTING, INC., as Principal, and NORTH AMERICAN SPECIALTY INSURANCE COMPANY as Surety, are held and firmly bound unto County of Riverside, hereinafter called the Owner, in the sum of _____ * _____ Dollars (\$1,916,400.00) for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

The condition of this obligation is such, that whereas the Principal entered into a certain contract, hereto attached, with the Owner, dated December 20th, 2011 for IDYLLWILD LIBRARY PROJECT (FM08190000056)

Now therefore, if the Principal shall well and truly perform and fulfill all the undertakings covenants, terms, conditions and agreements of said Contract during the original term of said Contract and any extension thereof that may be granted by the Owner, with or without notice to the Surety, and during the file of any guarantee required under the Contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said Contract that may thereafter be made, then this obligation to be void, otherwise to remain in full force and virtue. Without notice, Surety consents to extension of time for performance, change in requirements, change in compensation or prepayment under said Contract.

Signed and Sealed this 29TH Day of NOVEMBER, 2011.

HAMEL CONTRACTING, INC.

(Firm Name - Principal)
26341 JEFFERSON AVENUE, SUITE B
MURRIETA, CA 92562

(Business Address)

Affix Seal
if
Corporation

By: [Signature]

(Signature - Attach Notary's Acknowledgment)
GRANT J. HAMEL, PRESIDENT

(Title)

NORTH AMERICAN SPECIALTY INSURANCE COMPANY

(Corporation Name - Surety)
701 SOUTH PARKER STREET, SUITE 3800
ORANGE, CA 92868

(Business Address)

Affix
Corporate
Seal

By: [Signature]

(Signature - Attach Notary's Acknowledgment)
MARK D. IATAROLA, ATTORNEY-IN-FACT
ATTORNEY-IN-FACT

(Title-Attach Power of Attorney)

*ONE MILLION NINE HUNDRED SIXTEEN THOUSAND FOUR HUNDRED AND 00/100
2288004
Riverside County Economic Dev. Agency
Idyllwild Library Project (FM08190000056)

12/20/2011 3.3

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

No. 5193

State of California)
County of SAN DIEGO)

OPTIONAL SECTION
CAPACITY CLAIMED BY SIGNER

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TITLE(S)

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- ATTORNEY-IN-FACT
- TRUSTEE(S)
- GUARDIAN/CONSERVATOR
- OTHER: _____

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NAME OF PERSON(S) OR ENTITY(IES)

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personally appeared MARK D. IATAROLA

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WITNESS my hand and official seal.



Michelle M. Basuil
Signature of Notary

OPTIONAL SECTION

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NUMBER OF PAGES _____ DATE OF DOCUMENT _____

SIGNER(S) OTHER THAN NAMED ABOVE _____

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CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Riverside

On November 29, 2011 before me, Genevieve Barron, Notary Public
(Here insert name and title of the officer)

personally appeared Grant J. Hamel

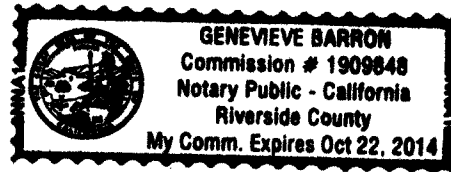
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WITNESS my hand and official seal.

Genevieve Barron
Signature of Notary Public

(Notary Seal)



ADDITIONAL OPTIONAL INFORMATION

INSTRUCTIONS FOR COMPLETING THIS FORM

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- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he/she/they~~, is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

(Additional information)

CAPACITY CLAIMED BY THE SIGNER

Individual (s)

Corporate Officer

(Title)

Partner(s)

Attorney-in-Fact

Trustee(s)

Other _____

NAS SURETY GROUP

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under laws of the State of New Hampshire, and having its principal office in the City of Manchester, New Hampshire, and Washington International Insurance Company, a corporation organized and existing under the laws of the State of New Hampshire and having its principal office in the City of Schaumburg, Illinois, each does hereby make, constitute and appoint:

JOHN G. MALONEY, HELEN MALONEY,
MARK D. IATAROLA and DEBORAH D. DAVIS

JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:

FIFTY MILLION (\$50,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both North American Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held on the 24th of March, 2000:

RESOLVED, that any two of the Presidents, any Managing Director, any Senior Vice President, any Vice President, any Assistant Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Company; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached.



By [Signature]
Steven P. Anderson, President & Chief Executive Officer of Washington International Insurance Company
& Senior Vice President of North American Specialty Insurance Company



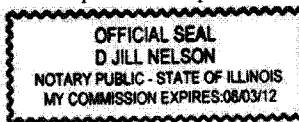
By [Signature]
David M. Layman, Senior Vice President of Washington International Insurance Company
& Vice President of North American Specialty Insurance Company

IN WITNESS WHEREOF, North American Specialty Insurance Company and Washington International Insurance Company have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers this 15th day of September, 2011.

North American Specialty Insurance Company
Washington International Insurance Company

State of Illinois
County of Cook ss:

On this 15th day of September, 2011, before me, a Notary Public personally appeared Steven P. Anderson, President and CEO of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and David M. Layman, Senior Vice President of Washington International Insurance Company and Vice President of North American Specialty Insurance Company, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.



[Signature]
D. Jill Nelson, Notary Public

I, James A. Carpenter, the duly elected Assistant Secretary of North American Specialty Insurance Company and Washington International Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said North American Specialty Insurance Company and Washington International Insurance Company, which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 29th day of NOVEMBER, 2011.

[Signature]

James A. Carpenter, Vice President & Assistant Secretary of Washington International Insurance Company & North American Specialty Insurance Company

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California)
County of SAN DIEGO)

On 11/29/2011 before me, MICHELLE M. BASUIL, NOTARY PUBLIC,
personally appeared MARK D. IATAROLA

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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Michelle M. Basuil
Signature of Notary

OPTIONAL SECTION CAPACITY CLAIMED BY SIGNER

Though statute does not require the Notary to fill in the data below, doing so may prove invaluable to persons relying on the document.

- INDIVIDUAL
 CORPORATE OFFICER(S)

TITLE(S)

- PARTNER(S) LIMITED
 GENERAL

- ATTORNEY-IN-FACT
 TRUSTEE(S)
 GUARDIAN/CONSERVATOR
 OTHER: _____

SIGNER IS REPRESENTING:
NAME OF PERSON(S) OR ENTITY(IES)

OPTIONAL SECTION

THIS CERTIFICATE MUST BE ATTACHED TO THE DOCUMENT DESCRIBED AT RIGHT:

TITLE OR TYPE OF DOCUMENT _____

NUMBER OF PAGES _____ DATE OF DOCUMENT _____

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SIGNER(S) OTHER THAN NAMED ABOVE _____

PAYMENT BOND

(Public Work - Civil Code Section 3247 et seq.)

The makers of this Bond are HAMEL CONTRACTING, INC. as Principal and Original Contractor and NORTH AMERICAN SPECIALTY INSURANCE COMPANY a corporation, authorized to issue Surety Bonds in California, as Surety, and this Bond is issued in conjunction with that certain public works contract dated December 20th, 2011 between Principal and County of Riverside, a public entity, as owner, for ONE MILLION NINE HUNDRED SIXTEEN THOUSAND FOUR HUNDRED AND 00/100 dollars (\$ 1,916,400.00) the total amount payable. THE AMOUNT OF THIS BOND IS 100% OF SAID SUM. Said contract is for public work of: IDYLLWILD LIBRARY PROJECT (FM08190000056)

The beneficiaries of this Bond are as is stated in 3248 of the Civil Code and the requirements and conditions of this Bond are as is set forth in Sections 3248, 3249, 3250 and 3252 of said Code. Without notice, Surety consents to extension of time for performance, change in requirements, amount of compensation, or prepayment under said Contract.

Signed and Sealed this 29TH Day of NOVEMBER 2011.

HAMEL CONTRACTING, INC.

(Firm Name - Principal)

26341 JEFFERSON AVENUE, SUITE B
MURRIETA, CA 92562

(Business Address)

By:

[Signature]
(Signature - Attach Notary's Acknowledgment)

GRANT J. HAMEL, PRESIDENT

(Title)

Affix Seal
If
Corporation

NORTH AMERICAN SPECIALTY INSURANCE COMPANY

(Corporation Name - Surety)

701 SOUTH PARKER STREET, SUITE 3800
ORANGE, CA 92868

(Business Address)

By:

[Signature]
(Signature - Attached Notary's Acknowledgment)

MARK D. IATAROLA, ATTORNEY-IN-FACT

ATTORNEY-IN-FACT

(Title-Attach Power of Attorney)

Affix
Corporate
Seal

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Riverside

On November 29, 2011 before me, Genevieve Barron, Notary Public
(Here insert name and title of the officer)

personally appeared Grant J. Hamel

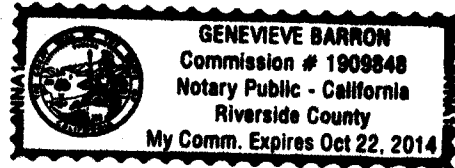
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Genevieve Barron
Signature of Notary Public

(Notary Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

(Additional information)

CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
 Corporate Officer

(Title)

- Partner(s)
 Attorney-in-Fact
 Trustee(s)
 Other _____

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NAS SURETY GROUP

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY

GENERAL POWER OF ATTORNEY

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JOHN G. MALONEY, HELEN MALONEY,
MARK D. IATAROLA and DEBORAH D. DAVIS

JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:

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FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached.



By [Signature]
Steven P. Anderson, President & Chief Executive Officer of Washington International Insurance Company
& Senior Vice President of North American Specialty Insurance Company



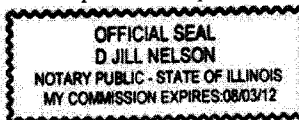
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North American Specialty Insurance Company
Washington International Insurance Company

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County of Cook ss:

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[Signature]

James A. Carpenter, Vice President & Assistant Secretary of Washington International Insurance Company & North American Specialty Insurance Company

**HMC ARCHITECTS
3546 Concours Street
Ontario, California 91764**

October 18, 2011

Idyllwild Library Project
Riverside County Economic Development Agency
Idyllwild, California
HMC # 2288004

ADDENDUM NO. 1

The following changes, additions, deletions or corrections shall become a part of the Contract Documents for the project named above and all other conditions shall remain the same. The bidders shall be responsible for transmitting this information to all affected subcontractors and suppliers prior to the closing of bids.

SPECIFICATIONS

Item No. AD-1.1: Reference Deleted Sections

- A. The following specification sections are hereby deleted:

Section 09 24 00, Portland Cement Plastering

Item No. AD-1.2: Reference All Technical Sections - Divisions 02 through 23 As Applicable

- A. In Part 1, Article Titled "Quality Assurance", Delete the experience requirements cited in the Article."

Item No. AD-1.3: Reference Section 01 20 00, Price and Payment Procedures

- A. Add the following new paragraphs:

1.01.C Alternates

1.04 ALTERNATES

- A. Alternates quoted on the Bid Form will be reviewed and accepted or rejected at Owner's option. Accepted alternates will be identified in Owner-Contractor Agreement.
- B. Coordinate related Work and modify surrounding Work as required.

C. Schedule of Alternates:

Alternate No. 1:

Corten Steel Siding: Provide Exterior Fiber Cement Siding as described in Specification Section 07 46 46 and New Drawings AD1-1, AD1-2, AD1-3, AD1-4, AD1-5 and AD1-6 in lieu of Corten Steel Siding described in Specification Section 05 50 00-3.06K Weathering Steel Wall Panels, and Key Note 07.13 on Sheets A5.1 and A5.2, and referenced details.

Alternate No. 2:

Selected Roofing:

1. Sheet Metal Roofing: Provide Sheet Metal Roofing described in Specification Section 07 61 00 where indicated on Drawing A4.3 and Details A4, A6, A8, B6, B8, D8, F8, and H8 on Drawing A10.7 in lieu of Asphalt Shingles as described in Specification Section 07 31 13.
2. Corrugated Galvanized Soffits: Provide Corrugated Galvanized Soffits as described in Specification Section 05 50 00-3.06L in lieu of T-111 Plywood (Textured Plywood 1-11) where indicated on Details A8, B6, and H8 on Sheet A10.7 with additional applicable information in Specification Section 06 10 00.

Alternate No. 3:

Wood Panel Ceilings: Provide Wood Panel Ceilings (WDC1) as shown in Details A2, B2, D1, and D7 on Drawing A10.5 and Specification Section 09 54 27 in lieu of Painted Gypsum Board ceilings as described in Specification Section 09 29 00.

Alternate No. 4:

Library Shelving: Provide Library Shelving as described in Specification Section 11 51 23 and as indicated by Key Notes 11.07 and 11.08 on Sheet A8.2.

Alternate No. 5:

Security System: Provide the Security System shown on Detail 3/E3.0 and corresponding items on Drawing E2.3, and Specification Section 28 16 00.

Item No. AD-1.4: Reference Section 06 10 00, Rough Carpentry

A. Add the following new paragraph:

"2.01.O. Texture Plywood: APA Texture 1-11, APA Rated Siding Special Series 303-OC, A-C, Exterior Bond Classification, 19/32 inches thick with 1/4 inch deep grooves, 3/8 inches wide spaced at 4 inches on center, shiplapped edges, rough texture. Finish in accordance with Section 09 90 00, Painting."

DRAWINGS

Item No. AD-1.5: Reference New Drawings

A. The following New Drawings dated 10/18/11, are hereby issued:

AD1-1
AD1-2
AD1-3
AD1-4
AD1-5
AD1-6

Item No. AD-1.6: Reference Revised Drawings

A. The following Revised Drawings dated 10/14/11 and 10/18/11, are hereby issued:

AD1-7
AD1-8
AD1-9
AD1-10
AD1-11
AD1-12
P0.2
P0.3
P1.1
P2.1

Item No. AD-1.7: Reference Drawings A2.2, A7.1, A7.2, A7.3 and A7.4

A. Revise Keynote 06.02 to read as follows:

"06.02 Architectural Woodwork, See Specification Section 06 40 00"

Item No. AD-1.8: Reference Drawings A3.2 and A3.3

A. Revise Keynote 09.17 to read as follows:

"09.17 Exterior Ceilings/Soffit Finish, T1-11 plywood, typ. with grooves spaced at 4" o.c.; Alternate Finish: Corrugated Galvanized Soffits."

Item No. AD-1.9:

Reference Drawing A4.1

A. Modify Keynote 02.62 as follows:

"02.62 Remove (E) Parapet Wall"

Item No. AD-1.10:

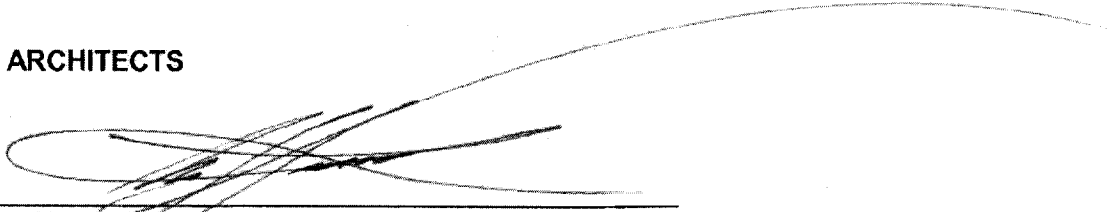
Reference Drawing A10.7

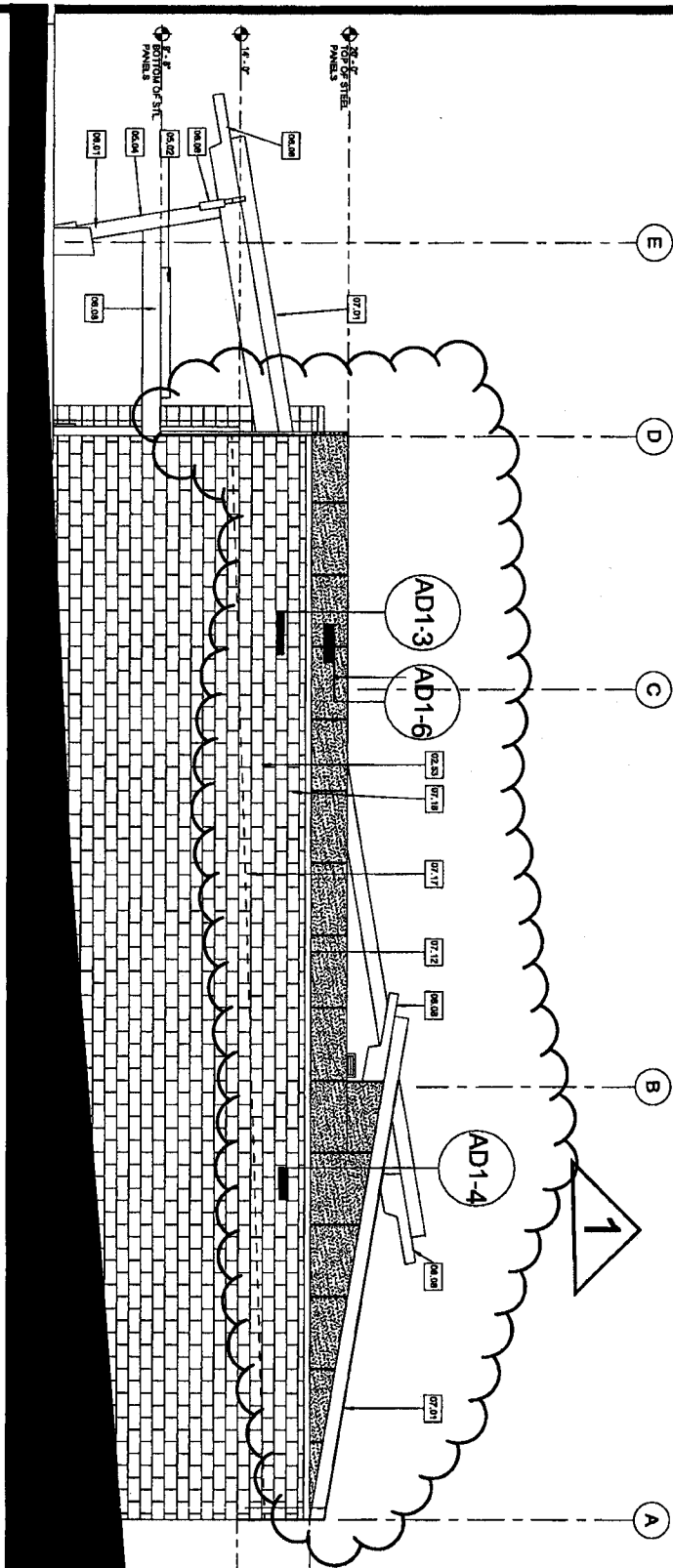
A. On Details A8, B6, H8 and D2, Revise Note to read:

"T1-11 plywood soffit panel, typ. with groove spaced at 4" o.c.; Alternate Finish:
Corrugated Galvanized Soffits."

HMC ARCHITECTS

By _____


Christopher Lawrence, AIA, LEED AP
Associate Principal



ADDENDUM 1

Drawing Title: EAST ELEVATION - ALTERNATE

Reference Drawing: E1/A5.2

Project:
 RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT

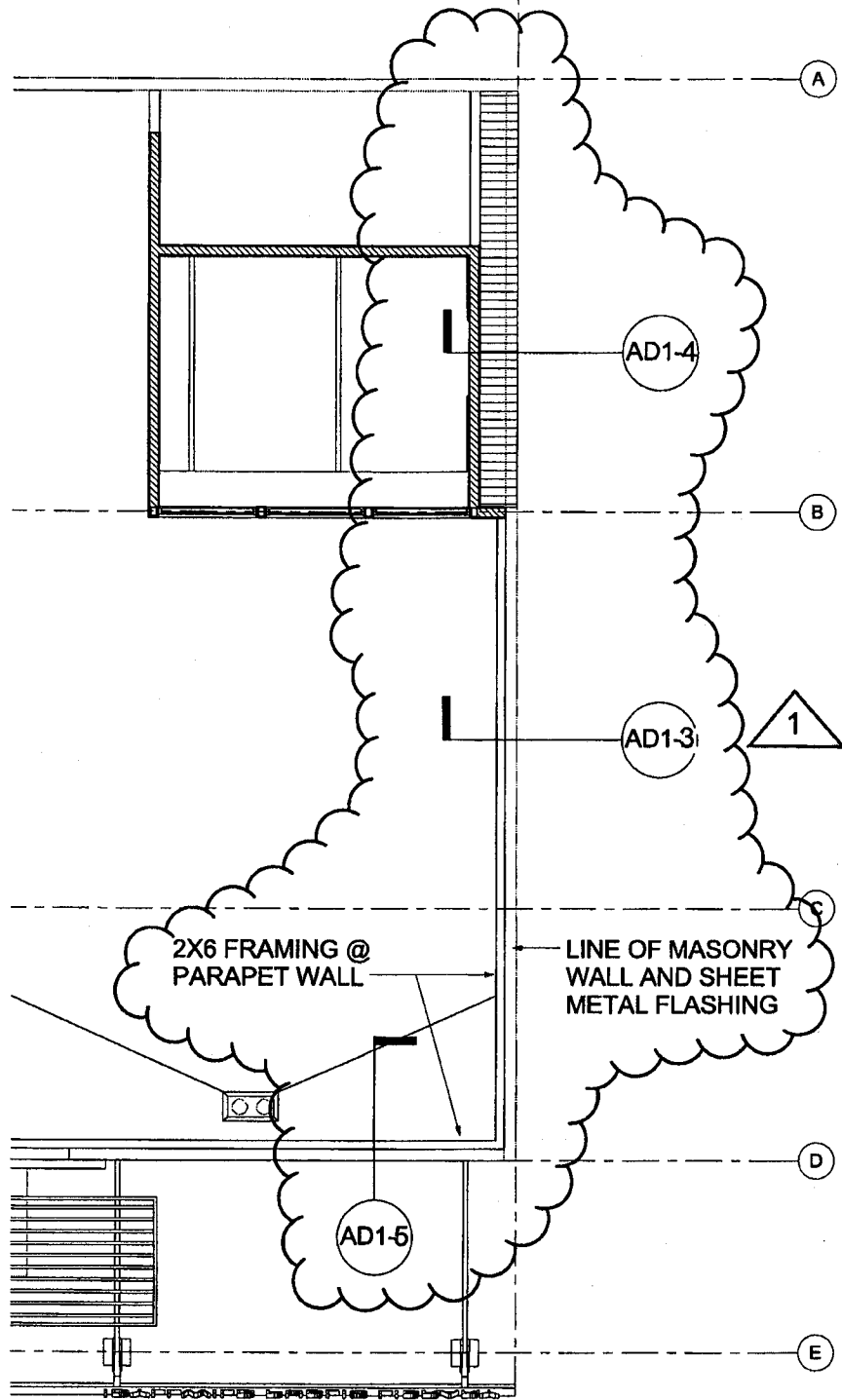
Scale: NTS
 Project No. 2288004-000
 Date: 10/18/11
 DRAWING #: AD1-1

54401 Village Center Drive
 Idyllwild, CA 92549



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ADDENDUM 1



Drawing Title: PARTIAL ROOF PLAN - ALTERNATE NO. 1

Reference Drawing: A1/A4.2

Project:

RIVERSIDE COUNTY EDA

IDYLLWILD LIBRARY
TENANT IMPROVEMENT

54401 Village Center Drive
Idyllwild, CA 92549

Scale: NTS

Project No.
2288004-000

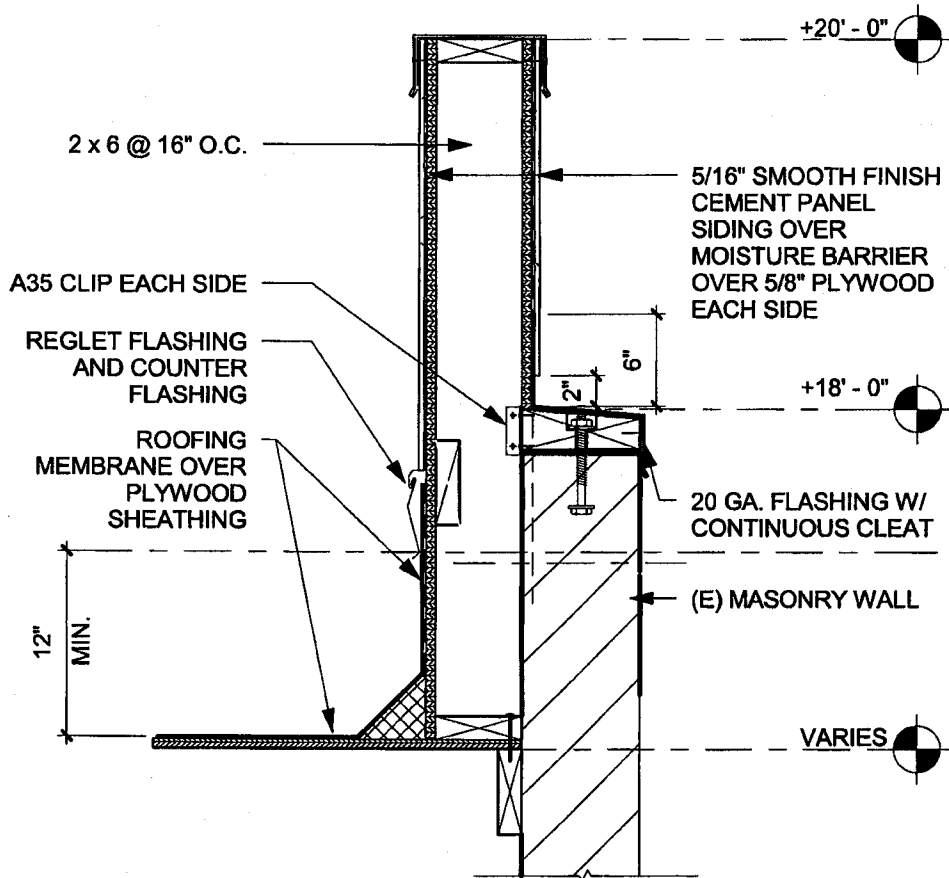
Date: 10/18/11

DRAWING #:
AD1-2

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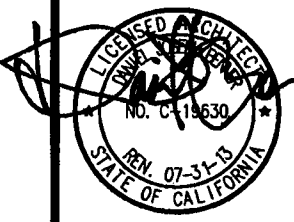




ADDENDUM 1

Drawing Title: MECH. SCREEN @ PARAPET - ALTERNATE NO.1

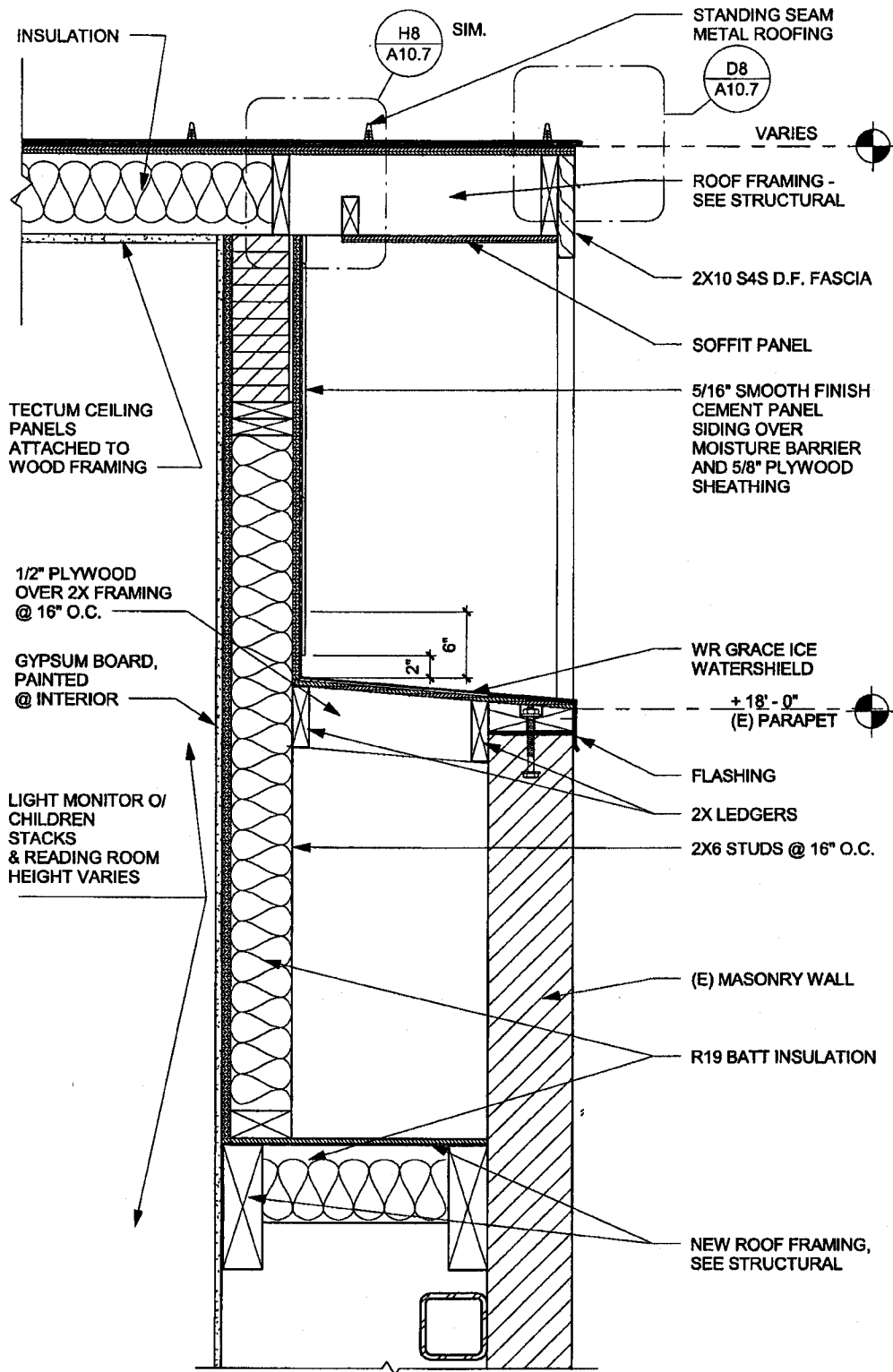
Reference Drawing: D6/A10.1



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Project:
 RIVERSIDE COUNTY EDA
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 TENANT IMPROVEMENT
 54401 Village Center Drive
 Idyllwild, CA 92549

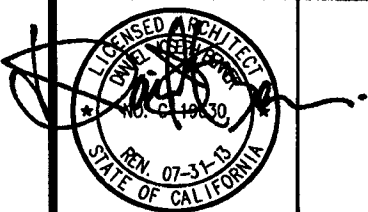
Scale: 1" = 1' - 0"
Project No. 2288004-000
Date:
DRAWING #: AD1-3



ADDENDUM 1

Drawing Title: **WALL SECTION GRID 4A TO 4B - ALTERNATE NO. 1**

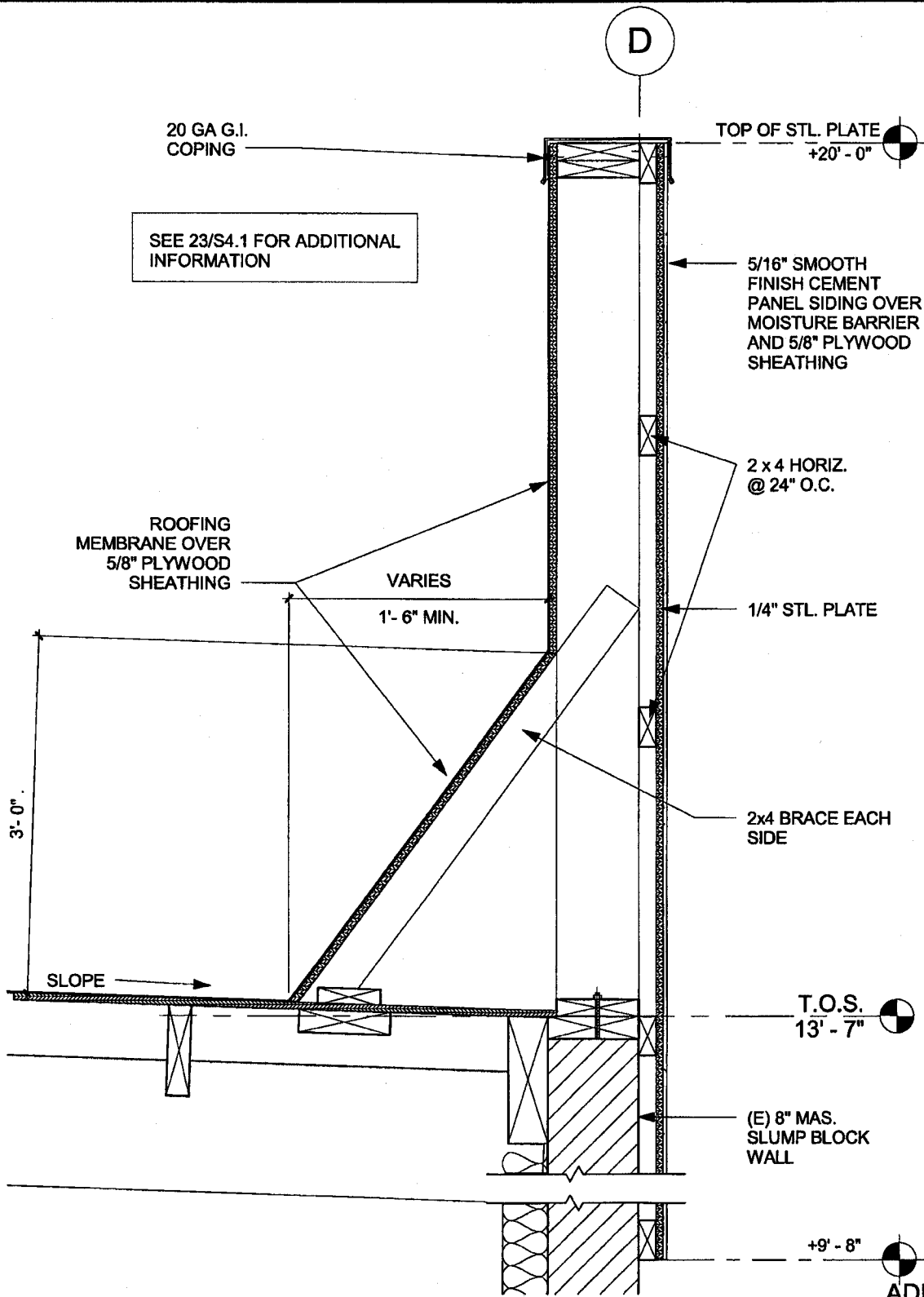
Reference Drawing: **A1/A10.1**



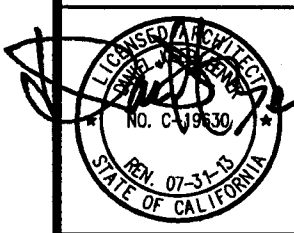
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Project:
RIVERSIDE COUNTY EDA
IDYLLWILD LIBRARY
TENANT IMPROVEMENT
 54401 Village Center Drive
 Idyllwild, CA 92549

Scale: NTS
Project No. 2288004-000
Date: 10/18/11
DRAWING #: AD1-4



ADDENDUM 1



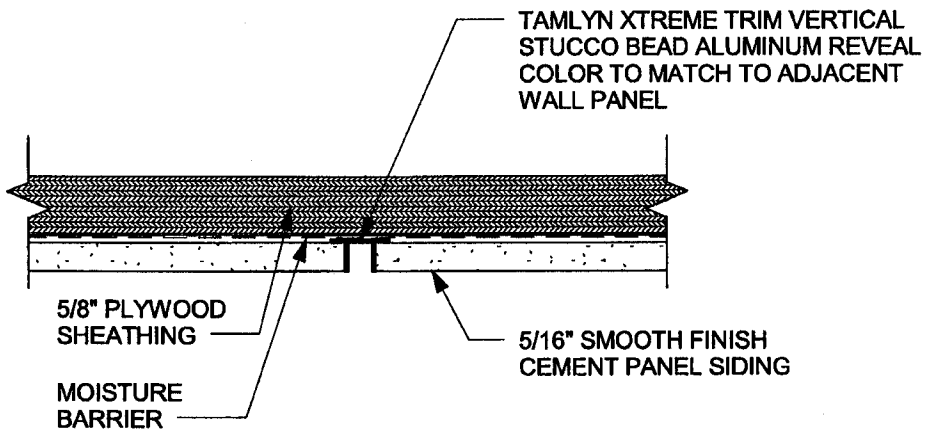
HMC Architects
 3548 Concourse Street / Ontario, CA 91764
 T 909 988 9979 / www.hmcarchitects.com

Drawing Title: **PARAPET - GRID "D" - ALTERNATE NO. 1**

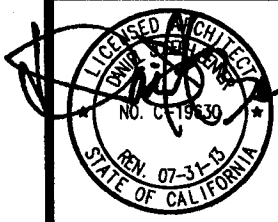
Reference Drawing: **D4/A10.1**

Project:
 RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT
 54401 Village Center Drive
 Idyllwild, CA 92549

Scale: **NTS**
 Project No. **2288004-000**
 Date: **10/18/11**
 DRAWING #: **AD1-5**



ADDENDUM 1



HMC Architects
 3548 Concourse Street / Ontario, CA 91704
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Drawing Title: VERTICAL REVEAL @ CEMENT PANEL SIDING

Reference Drawing:

Project:
 RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT

EDA
 COUNTY OF RIVERSIDE
 ECONOMIC DEVELOPMENT AGENCY

54401 Village Center Drive
 Idyllwild, CA 92549

Scale: 6" = 1' - 0"

Project No. 2288004-000

Date: 10/18/11

DRAWING #: AD1-6



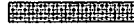
ACCESS PANEL
DETAIL: H4/A10.5



LOCATIONS OF REGISTRATION
WITH EXIT DIRECTIONAL ARROW
EXIT SIGNS SHALL COMPLY WITH
CBC 1011

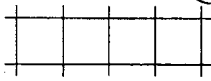


SMOKE DETECTOR
SEE ELECTRICAL DWG. E2.3



CEILING VENT
SEE DETAIL F2/A10.5

LEGEND - FINISHES

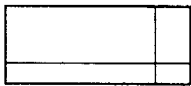


2' X 2' SUSPENDED
T-BAR CEILING SYSTEM,
U.N.O. SEE SHEET A10.6

AC1



(E) 2' X 4' SUSPENDED
T-BAR CEILING SYSTEM,



WOOD CEILING
SEE SHEET A10.5

WDC1

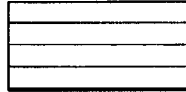


4' X 8' DIRECT-ATTACHED
ACOUSTICAL PANEL CEILING

AC2



FRAMED GYPSUM
BOARD CEILING,
SEE SHEET A10.5



CORRUGATED GALVANIZED
SOFFITS, SPECIFICATION
SECTION 055000

NOTES

- LIGHTING FIXTURES SHALL BE CENTERED IN SPACE AS SHOWN, U.N.O.
- ALL SUSPENDED CEILING GRID SYSTEMS SHALL BE CENTERED IN SPACE AS SHOWN, U.N.O.
- LIGHTING FIXTURES AND MECHANICAL REGISTERS ARE SHOWN FOR LOCATION PURPOSES ONLY, REFER TO ELEC. & MECH. DWGS FOR ADDITIONAL INFORMATION.
- REFER TO SHEET A10.6 FOR TYPICAL LIGHTING FIXTURE AND MECHANICAL DIFFUSER INSTALLATION DETAILS
- FOR OTHER CEILING DEVICE LOCATIONS, REFER TO DETAIL H1/A10.6
- FOR TYPICAL LIGHTING FIXTURES AND MECHANICAL REGISTERS MOUNTING DETAILS, SEE SHEET A10.5 & A10.6
- FOR TYPICAL CEILING HANGING WIRE, MECH. DUCT HANGER & EQUIPMENT HANGER DETAILS, SEE STRUCTURAL DETAILS 8 & 9/S1.1
- INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH BUILDING CODE 803 AND TABLE 803.5.
FOR A-3 OCCUPANCY GROUP, NON SPRINKLERED ROOMS AND ENCLOSED SPACES, CLASS C INTERIOR FINISH MATERIALS ARE REQUIRED.
- REFER TO SPECIFICATION SECTION 090600 SCHEDULE FOR FINISHES FOR FINISHES.

ADDENDUM 1



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Drawing Title: LEGEND - FINISHES AND NOTES

Reference Drawing: A3.2 REMODEL REFLECTED CEILING PLAN



Project:
RIVERSIDE COUNTY EDA
IDYLLWILD LIBRARY
TENANT IMPROVEMENT

54401 Village Center Drive
Idyllwild, CA 92549

Scale: NTS

Project No.
2288004-000

Date: 10/18/11

DRAWING #:
AD1-7

LEGEND - FINISHES



C1
(CARPET)



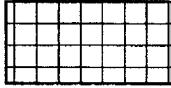
CONC1
(SEALED CONCRETE)



(E)
(EXISTING CONDITION)



ETF1
(RESILIENT TILE FLOORING)



CT1
(CERAMIC TILE)



SV1
(SHEET VINYL FLOORING)

--- (P#) --- PAINT ACCENT COLOR

--- (STN#) --- STAIN COLOR

--- (CT#) --- CERAMIC WALL TILES

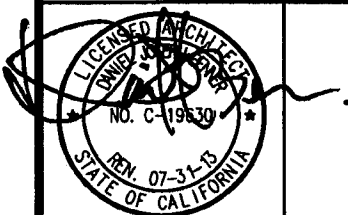
--- (WC#) --- WALL COVERING

--- (TWP#) --- TACKABLE WALL PANEL

NOTES

1. FOR TYPICAL SYMBOLS AND ABBREVIATIONS, REFER TO SHEET G0.1
2. REFER TO SPECIFICATION SECTION 090600 SCHEDULE FOR FINISHES FOR FINISHES AND COLORS.
3. INTERIOR ACCENT PAINT LOCATIONS TO BE SITE VERIFIED BY DESIGNER / ARCHITECT PRIOR TO PAINTING.
4. ALL EXPOSED DUCTWORK, REGISTER GRILLES & STRUCTURAL ELEMENTS TO BE PRIMED & PAINTED.
5. ROOMS WITHOUT FLOOR PATTERNS, REFER TO FINISH SCHEDULE SHEET A9.1 FOR FINISH.

ADDENDUM 1



HMC Architects

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Drawing Title: LEGEND - FINISHES AND NOTES

Reference Drawing: A8.1 FLOOR FINISH PATTERN PLAN

Project:
RIVERSIDE COUNTY EDA
IDYLLWILD LIBRARY
TENANT IMPROVEMENT



54401 Village Center Drive
Idyllwild, CA 92549

Scale: NTS

Project No.
2288004-000

Date: 10/18/11

DRAWING #:
AD1-8

FINISH SCHEDULE ABBREVIATIONS

AC	ACOUSTICAL CEILING
WP	ACOUSTICAL WALL TREATMENT
B	RESILIENT BASE
C	CARPET
CB	CEMENTITIOUS BACKER BOARD
CF	COLOR CONCRETE FLOOR
CONC	CLEAR SEALED FINISH OVER CONCRETE
CT	CERAMIC TILE
CTB	CERAMIC TILE COVED INTEGRAL BASE
FF	FACTORY FINISH
FRP	FIBERGLASS REINFORCED PANEL
G	GLAZED - STORE FRONT
GB	GYPSTUM BOARD
GBW	WET GYPSTUM BOARD
OTS	OPEN TO STRUCTURE
P	PAINT
PE	PAINT, EGGSHELL FINISH
PF	PAINT, FLAT FINISH
PS	PAINT, SEMI - GLOSS FINISH
PG	PAINT, GLOSS FINISH
QT	QUARRY TILE
RS	RESILIENT SHEET FLOORING
RT	INTERLOCKING RUBBER TILE
STN	STAIN
SV	SHEET VINYL FLOORING
ETF	RESILIENT TILE FLOORING
WC	WALL COVERING
WDC	WOOD CEILING
*	SEE FLOOR FINISH PATTERN PLAN SHEET A8.1 & INTERIOR ELEVATIONS SHEETS A7.1, A7.2, A7.3 & A7.4 FOR COLORS AND PATTERN LOCATIONS.

FINISH SCHEDULE REMARKS

- 4" HIGH CERAMIC TILE COVE BASE
- FRP AT SINGLE TOILET.
- SEE SHEET A3.2 FOR CEILING ACCENT PAINT COLOR LOCATIONS.

FINISH SCHEDULE NOTES

- INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH BUILDING CODE 803 AND TABLE 803.5. FOR A-3 OCCUPANCY GROUP, NON SPRINKLERED ROOMS AND ENCLOSED SPACES, CLASS C INTERIOR FINISH MATERIALS ARE REQUIRED.
- REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
- REFER TO SPECIFICATION SECTION 090600 SCHEDULE FOR FINISHES, FOR FINISHES AND COLORS INDICATED ON THE ROOM FINISH SCHEDULE.
- INTERIOR PAINT LOCATIONS TO BE SITE VERIFIED BY DESIGNER/ARCHITECT PRIOR TO PAINTING.
- REFER TO SHEET A8.1 FOR FLOOR PATTERNS AND ACCENT PAINT/TILE COLOR LOCATIONS & INTERIOR ELEVATIONS SHEETS A7.1, A7.2, A7.3 & A7.4 FOR COLORS AND PATTERN LOCATIONS
- ALL EXPOSED DUCTWORK, REGISTER GRILLES & STRUCTURAL ELEMENTS TO BE PRIMED & PAINTED
- SOFFITS TO BE PAINTED ON FACE AND UNDERSIDE, U.N.O.

ADDENDUM 1



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Drawing Title: FINISH SCHEDULE ABBREVIATIONS, REMARKS AND NOTES

Reference Drawing: SHEET A9.1



Project:
RIVERSIDE COUNTY EDA
IDYLLWILD LIBRARY
TENANT IMPROVEMENT

54401 Village Center Drive
Idyllwild, CA 92549

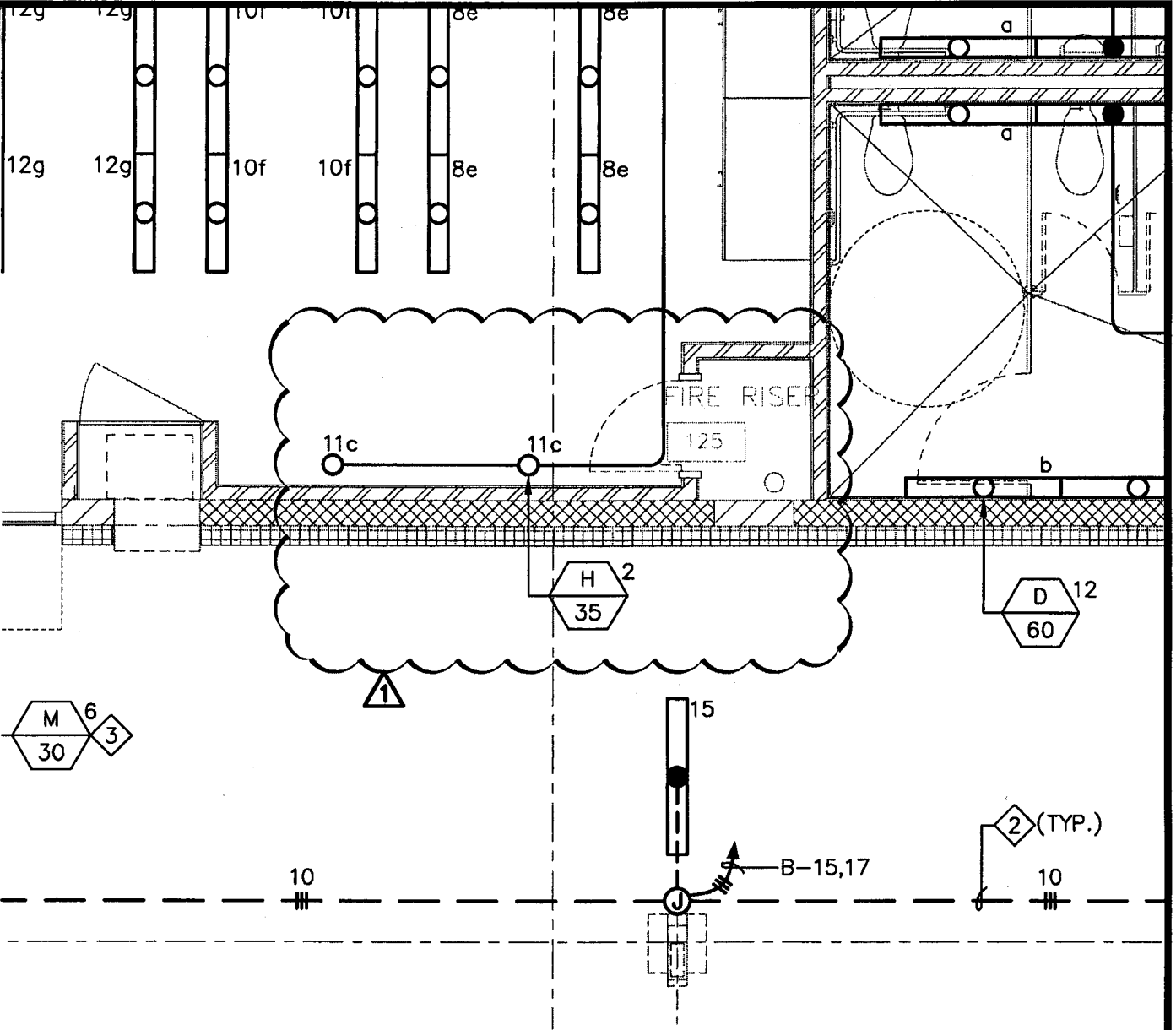
Scale: NTS

Project No.
2288004-000

Date: 10/18/11

DRAWING #:
AD1-9

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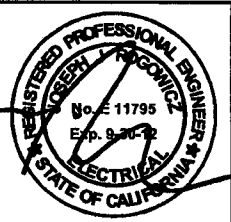
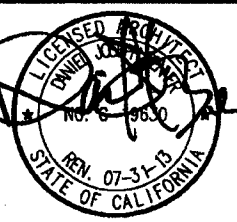


DCGA ENGINEERS

Consulting Mechanical and Electrical Engineers

4750 E. Ontario Mills Pkwy
 Ontario, Ca. 91764
 Ph. 909.987.0017
 Fax 909.980.7023

ADDENDUM 1



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 3546 Concourse Street / Ontario, CA 91764
 T 909 989 9879 / www.hmcarchitects.com

Drawing Title: **LIGHTING PLAN**

Reference Drawing: **E2.1**

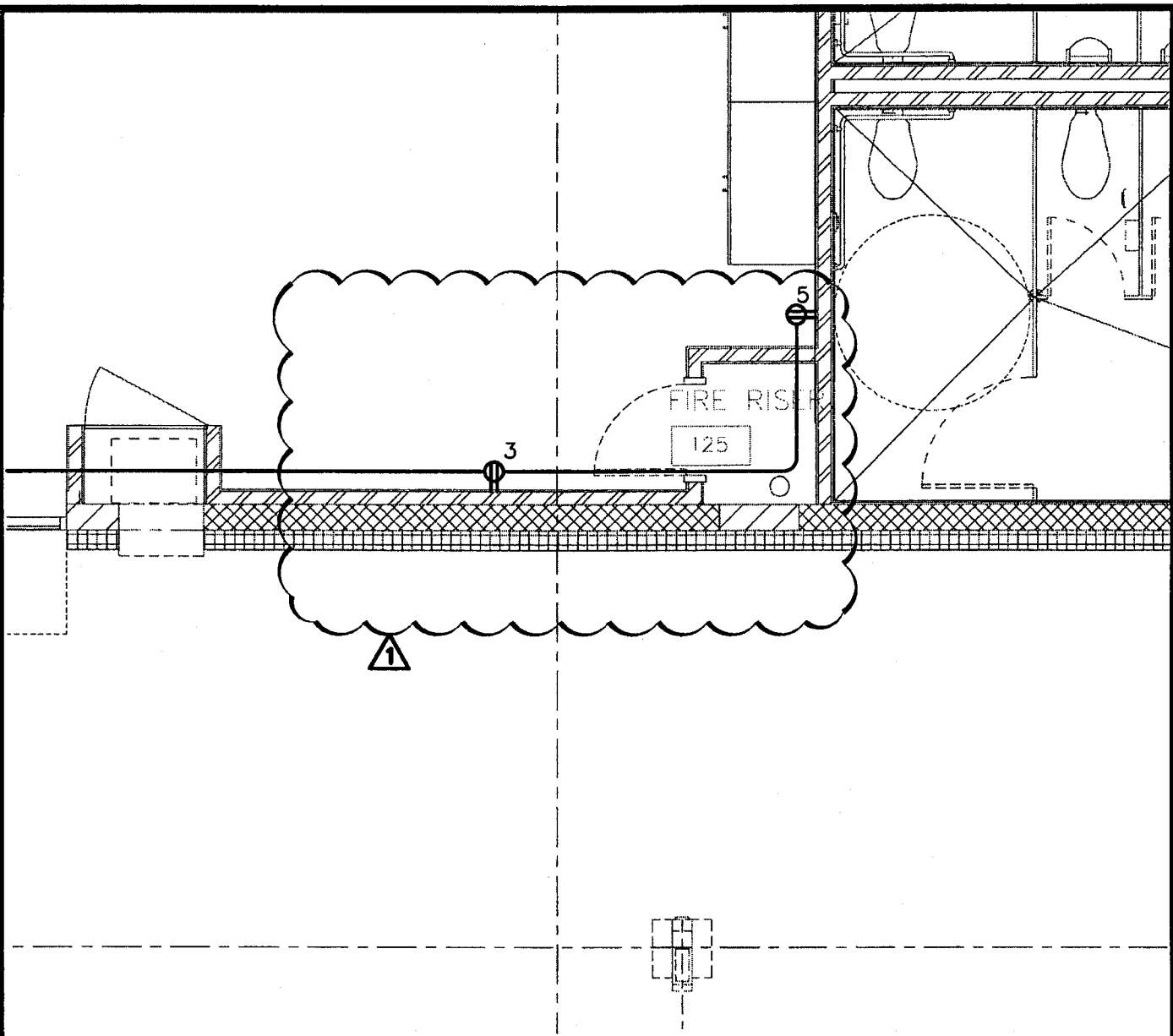
Project: **RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT**



54401 Village Center Drive
 Idyllwild, CA 92549

Scale: **1/4"=1'-0"**
 Project No. **2288004-000**
 Date: **10/14/11**
 DRAWING #: **AD1-10**

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DCGA ENGINEERS

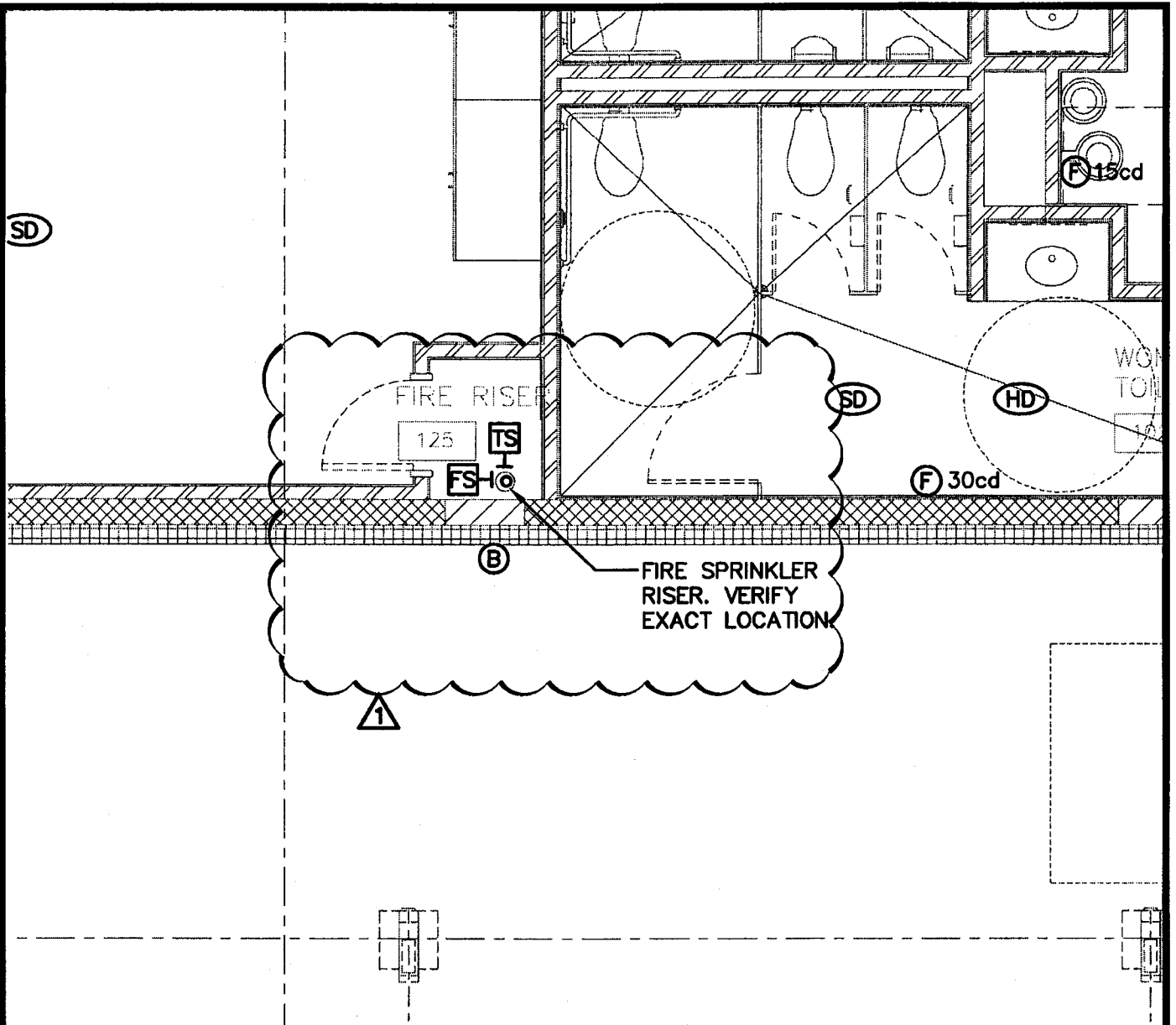
Consulting Mechanical and Electrical Engineers

750 E. Ontario Mills Pkwy
 Ontario, Ca. 91764
 Ph.909.987.0017
 Fax 909.980.7023

ADDENDUM 1

	Drawing Title: POWER PLAN	
	Reference Drawing: E2.2	
		Project: RIVERSIDE COUNTY EDA IDYLLWILD LIBRARY TENANT IMPROVEMENT
		Scale: 1/4"=1'-0" Project No. 2288004-000 Date: 10/14/11 DRAWING #: AD1-11
HMC Architects 3548 Concourse Street / Ontario, CA 91764 T 909 988 9879 / www.hmcarchitects.com		54401 Village Center Drive Idyllwild, CA 92549

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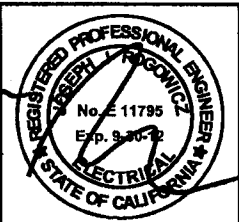
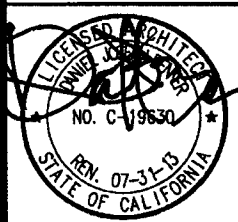


DCGA ENGINEERS

Consulting Mechanical and Electrical Engineers

4750 E. Ontario Mills Pkwy
 Ontario, Ca. 91764
 Ph. 909.987.0017
 Fax 909.980.7023

ADDENDUM 1



HMC Architects
 3548 Concourse Street / Ontario, CA 91764
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Drawing Title: **COMMUNICATION AND FIRE ALARM PLAN**

Reference Drawing: **E2.3**

Project:
**RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT**



54401 Village Center Drive
 Idyllwild, CA 92549

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

Project No.
2288004-000

Date:
 10/14/11

DRAWING #:
AD1-12

CONTRACTOR'S PROPOSAL

TO THE GOVERNING BOARD OF THE COUNTY OF RIVERSIDE:

Date: _____

Bidder: _____

The undersigned, having carefully examined the proposed site and the Plans and Specifications, the Notice Inviting Bids, the Instructions to Bidders, the Agreement Form, the Bond Forms, the General Conditions for the Construction of the Idyllwild Library Project, hereby proposes and agrees to furnish all tools, equipment, services, apparatus, facilities, transportation, labor and materials necessary to complete the work in strict conformity with the Plans and Specifications, including all work specified in Addenda numbered and dated:

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

For the total Base Bid _____ dollars (\$ _____), including all applicable taxes, permits, licenses, **AND Course of Construction Insurance.**

(Add or Deduct state which)

Alternate 1 \$ _____

Alternate 2 \$ _____

Alternate 3 \$ _____

Alternate 4 \$ _____

Alternate 5 \$ _____

And,
Cost of Contractor's Course of Construction Insurance _____ dollars
(\$ _____) and deductible \$ _____.

Bids must be submitted on all items. Failure to bid on all items may result in the bid being rejected as non-responsive. The basis for award will be the qualified bidder with the lowest total of the Base Bid WITH COURSE OF CONSTRUCTION INSURANCE and all alternates. Alternates may be awarded in any order after determination of the lowest responsible and responsive bidder.

AWARD OF CONTRACT

The undersigned fully understands that a Contract is formed upon the acceptance of this Proposal by the Owner and the undersigned further agrees that upon request he will promptly execute and deliver to Owner a written memorial of the Contract together with the required Payment and Performance Bonds and proof of insurance.

BID GUARANTEE

The enclosed certified or cashier's check or bidder's bond on approved form, made payable to the Owner in the amount of ten percent of the total bid submitted herewith, is hereby given as a guarantee that the bidder will execute and deliver the above mentioned written memorial and required bonds and insurance if awarded the contract, and in the event that the undersigned fails or refuses to execute and deliver said documents, such check or bond is to be charged with the costs of the damages experienced by the Owner as a result of such failure or refusal, including but not limited to publication costs, the difference in money between the amount of the bid of the said principal and the amount for which obligee may legally contract with another party to perform the said work if such amount be in excess of the former, building lease or rental costs, transportation costs and additional salary costs that result from the delay due to the principal's default on the awarded contract. In no event, however, shall the Surety's liability exceed the penal sum hereof.

Name of Bidder: _____

Type of Organization: _____

Signed By: _____

Title of Signer: _____

Address of Bidder: _____

Telephone No.: _____

Contractor's License No.: _____

Classification: _____ Expiration Date: _____

Affix Seal if
Corporation

LICENSURE STATEMENTS ARE MADE UNDER PENALTY OF PERJURY

If bidder is a corporation, and signer is not President or Secretary, attach a certified copy of By-Laws or resolution authorizing execution. If bidder is a corporation, affix corporate seal. If signer is an agent, attach Power of Attorney. If bidder is not an individual, list names of other persons authorized to bind the organization.

**HMC ARCHITECTS
3546 Concours Street
Ontario, California 91764**

October 25, 2011

Idyllwild Library Project
Riverside County Economic Development Agency
Idyllwild, California
HMC # 2288004

ADDENDUM NO. 2

The following changes, additions, deletions or corrections shall become a part of the Contract Documents for the project named above and all other conditions shall remain the same. The bidders shall be responsible for transmitting this information to all affected subcontractors and suppliers prior to the closing of bids.

PREVIOUSLY ISSUED ADDENDUM NO. 1

Item No. AD-2.1: Reference Item No. AD-1.3, Paragraph 1.04.C

- A. Modify Alternate No. 3 to read as follows:

Alternate No. 3:

"Wood Panel Ceilings; Provide Wood Panel Ceilings (WDC1) as shown in Details A2, B2, D1 and D2 on Drawing A10.5 and Specification Section 06 40 00 in lieu of Painted Gypsum Board ceilings as described in Specification Section 09 29 00."

GENERAL CONDITIONS

Item No. AD-2.2: Reference General Conditions

- A. In Article 7.2, Liquidated Damages, Add the following:

"... the sum of \$4,000 per calendar day"

SPECIFICATIONS

Item No. AD-2.3: Reference Deleted Sections

- A. The following Specification Sections are hereby deleted:

Section 26 05 73, Over-Current Protective Device Coordination Study
Section 27 15 00, Basic Communication Systems and Methods
Section 27 15 01, Structured Cabling Systems
Section 27 53 13, Wireless Clock System

Item No. AD-2.4:

Reference New Sections

A. The following New Specification Sections are hereby issued:

- Section 03 01 30, Concrete Cleaning
- Section 03 01 32, Concrete Rehabilitation
- Section 03 35 35, Concrete Sealer
- Section 05 05 14, Hot-Dip Galvanizing
- Section 07 31 13, Asphalt Shingles
- Section 07 92 00, Joint Sealants
- Section 10 14 19, Dimensional Letters
- Section 10 29 00, Diaper Changing Stations
- Section 27 15 50, Communications Systems Cabling
- Section 32 12 16, Asphaltic Concrete Paving
- Section 32 13 13, Sitework Concrete

Item No. AD-2.5:

Reference Section 05 50 00, Metal Fabrications

A. In Subparagraph 3.06.L.1, Modify as follow:

- "1. 0.050 inch (18 ga) G90 galvanized steel sheet, corrugation by Creative Metal Industries, Santee, CA (619) 258-5601, or equal; Design MKE 3/8" flute 1/4" ht. at 1" center. Small spangle."

Item No. AD-2.6:

Reference Section 07 21 00, Insulation

A. In Paragraph 2.02.A, Modify as follows:

- "1. Thermal Resistance: R-13 for nominal 4 inches cavities
R-19 for nominal 6 inch cavities.
R-30 for nominal 10 inch cavities and at roofs
- 2. Batt Size: As required to fully fill cavity width and height or length.
- 3. Thickness: 3-1/2 inch for R-13 at 4 inch exterior walls.
6-1/4 inch for R-19 at 6 inch exterior walls
10 inch for R-30 at roofs and above ceilings."

Item No. AD-2.7:

Reference Section 07 52 16, Membrane Roofing - Modified Bitumen

A. Delete the following Articles:

2.03, 3.05

Delete the following Paragraphs:

1.01.B, 1.02.C, 1.02.D, 1.02.E, 1.02.M

B. Modify Paragraph 2.02.C as follows:

"Asphalt Glass Fiber Base Sheet - ASTM D4601, Type II, 25 - 28 lbs. per sq. minimum, GlasBase Plus by Johns Manville, or equal, fiber glass reinforced base sheet: DynaBase ASTM D6163, Type I Grade S, 60 lbs/square (90 lbs per roll)."

C. In Paragraph 3.01.D, Remove the words: "[and ice]".

D. In Subparagraph 3.06.B.1, Modify as follows:

- "1. Type 1 - for Nailable Deck, No Insulation:
 - a. MBS (2) -N-(M) (L)-G (2w/base sheet) M: 1 base sheet, 2 glass plies, SBS mineral surfaced cap sheet."

Item No. AD-2.8: Reference Section 08 71 00, Door Hardware

A. In Paragraph 1.01.B, Modify as follows:

- "B. Related Sections
1. Section 06 40 00, Architectural Woodwork
 2. Section 08 12 13, Hollow Metal Frames, Welded
 3. Section 08 13 13, Hollow Metal Doors
 4. Section 08 14 23, Plastic Faced Wood Doors
 5. Section 08 41 13, Aluminum Entrances and Storefronts
 6. Section 09 29 00, Gypsum Board"

Item No. AD-2.9: Reference Section 09 29 00, Gypsum Board

A. Add the following new Paragraph:

- "2.02.G. Shielded Gypsum Board: ASTM C 36, factory laminated with permanent resilient adhesive, 48 inch wide, 5/8 inch thick by required height, standard gypsum boards, or fire-resistive type where required, arranged to provide positive lead insulation at joints. Minimum thickness of lead shall be 3/32 inches. Installer to verify fire resistant in lead back board in fire assembly, shall be UL listed Design.
1. Joint lead battens strips, 2" wide, full length for lapping at joints.
 2. Locate on walls both sides of library detection system. Reference Door No. 104 for location."

Item No. AD-2.10: Reference Section 09 65 19, Solid Vinyl Floor Tile

A. In Article 1.01, Add the following paragraph:

- "B. Related Sections:
1. Section 07 25 00, Concrete Slab Vapor Emissions Treatment"

Item No. AD-2.11: Reference Section 10 14 54, Exterior Signs

- A. Delete the following Articles and Paragraphs:
 - 2.02
 - 2.03.C
 - 3.03.E
 - 3.03.F

- B. In Article 2.01, Modify as follows:
 - "C. Materials: Cast Aluminum
 - 1. Metal Finish: Satin Aluminum Face, finish matte edges.
 - 2. Thickness: 1/2"

 - D. Type: Heavy Ribbon No. 507, See Drawings.

 - E. Refer to Drawings for locations and layout. Minimum letter quantity: See Drawings."

Item No. AD-2.12: Reference Section 11 51 13, Library Controls

- A. Modify Paragraph 2.02.A to read as follows:
 - "A. 3M, Library System Model 3M 3802 for two corridors."

- B. In Paragraph 2.02.C., Modify as follows:
 - "1. Series Model 3M V Series SelfCheck Unit: Interface with automated circulation system. Reads library labels and strips of library items.
 - a. Model V2, barcode self-service and Tattle-Tape Security Strip Technology with multiple book detection."

- C. In Sub-Paragraphs 2.02.D.1 and 2.02.D.4, Modify as follows:
 - "1. Staff Work Station: Provide compatible magnetic system specified."

 - "4. Bookcheck Desensitizer / Resensitizer: 943 with barcode scanner, security strips on printed materials, DVDs, CDs (non-magnetic)."

Item No. AD-2.13: Reference Section 23 81 19, Rooftop Air Conditioners

- A. In Paragraph 2.1, Modify as follows:
 - 1. Add the following: "Trane"

 - 2. Change to read: "Basis of Design is Trane."

 - 3. Revise "Natural Gas Fired Burners" to "LPG Fired Burners."

4. Unit Controls: Delete Ven-Star Model #2900 School Thermostat. Provide Tran Commercial Grade programmable thermostat.

Item No. AD-2.14: Reference Section 26 27 26, Wiring Devices

- A. In Paragraph 2.2, Wall plates shall be nylon type in lieu of stainless steel indicated.

Item No. AD-2.15: Reference Section 28 16 00, Intrusion Detection System

- A. Where manufacturer is noted as "Radionics", revise to read: "Bosch"

Item No. AD-2.16: Reference Section 28 31 00, Fire Detection and Alarm

- A. Where the fire alarm system refers to the "Edwards Systems Technology" or "EST" as an acceptable manufacturer, it shall be followed by the following: "(or approved equal by Simplex or FCI)."

DRAWINGS

Item No. AD-2.17: Reference New Drawings

- A. The following New Drawings dated 10/27/11, are hereby issued:

AD2-1
AD2-2
SR-1
SR-2

Item No. AD-2.18: Reference Revised Drawings

- A. The following Revised Drawings dated 10/27/11, are hereby issued:

SR-3
AD2-3
AD2-4
AD2-5
AD2-6
AD2-7
AD2-8
AD2-9
AD2-10
AD2-11
AD2-12
AD2-13
AD2-14
AD2-15
AD2-16
AD2-17
AD2-18
AD2-19
AD2-20

AD2-21
AD2-22
AD2-23
AD2-24
AD2-25

Item No. AD-2.19: Reference Drawing A4.1, Roof Demolition Plan

- A. Modify Keynote No. 2.40 to read as follows:

"2.40 REMOVE PORTION OF EXISTING ROOFING AND ROOF SHEATHING FOR NEW ROOF OPENING, SEE DRAWING S2.2 FOR EXISTING STRUCTURE TO REMAIN"

Item No. AD-2.20: Reference Drawings A4.2, A4.3 and A5.1

- A. Keynote No. 10.28, Change to read:

"10.28 EXTERIOR DIMENSIONAL LETTERS, SEE SPECIFICATION SECTION 10 14 19"

Item No. AD-2.21: Reference Drawing M0.2, Mechanical Schedules

- A. On A/C Unit Schedule, Under remarks, Delete Keynote One (1) for AC-1 through 4.

Item No. AD-2.22: Reference Drawing M0.3, Mechanical Details

- A. On Detail No. 7, Modify as follows:

"Varitrac Central Control Panel (CCP) located in Data Room 114."

Item No. AD-2.23: Reference Drawing E0.4, Single Line Diagram

- A. Add keynote at panels 'A' and 'B' to read: "Contractor shall remove, rework, refurbish and provide new circuit breakers as required to provide circuit breakers to match panel schedules and circuiting indicated on sheet E5.1".
- B. Add keynote at panel "MSDP" to read: "Contractor shall rework and provide and install custom circuit breaker cover at main circuit breakers feeding panels 'A' and 'B' to replace existing sheet metal cover. Panel shall be cleaned thoroughly inside and out to remove existing dust and debris. Provide engraved micarta nameplates to designate panels, circuit breakers, etc. where marker designations exist (attach with rivets).

Item No. AD-2.24: Reference Drawing E2.0, Electrical Demolition Plan

- A. Add keynote to South Canopy to read: "Disconnect and remove all exterior surface mounted lighting fixtures and related conduit and wiring back to source".
- B. Clarification: Sheet Notes on plan refer to all devices inside and outside the entire building with the exception to the existing Main Service and Distribution

Panel "MSDP" and the sub-panels 'A' and 'B'.

Item No. AD-2.25: Reference Drawing E2.1, Lighting Plan

- A. Add (1) Type H/35 lighting fixture in room #107 and control switches per attached sketch.
- B. Lighting fixtures indicated in rooms #106, 114 and 124 shall be surface mounted wraparound fixtures with (2) T5 lamps equal to Prudential #P1220-2T5-04-PRA-YGW-120-SUR in lieu of fixture type indicated, provide all mounting hardware.
- C. At fixture Type N/30 above west exit door, add note to read "Mount fixture at +9'-0", core drill and seal CMU wall as required to install conduit feeder indicated".
- D. Add (3) Type G/60 fixtures in the Community Room per the attached sketch.

Item No. AD-2.26: Reference Drawing E2.2, Power Plan

- A. Extend 1/2" conduit 3#12 conductors from HVAC temperature control panel in Room # 114 and connect to panel 'B' circuit #32 and connect to 20A 1P circuit breakers.
- B. Add keynote to each "Special Recessed Combination Power/Data Floor Box" symbol to read: "Exact floor box location shall be coordinated, dimensioned and approved by the Architect prior to construction. Refer to Detail 8/E4.1 for additional information".

Item No. AD-2.27: Reference Drawing E2.3, Communication and Fire Alarm Plan

- A. Add smoke detector in room # 107 and a smoke detector in high portion of room #108 (3 total in room).
- B. Add intrusion motion sensor detection device in room #114.
- C. Add 1/4" thick x 4" x 12" communication insulated ground bus bar on backboard in room # 107 equal to Erico and connect #4AWG from ground bus bar "MSDP" grounding bus and to bond to telecommunication rack.
- D. MDF rack in Room #107 shall be 84" open aluminum frame type rack with 18" ladder rack above and connected to east and west walls. All equipment shall be seismically anchored. Refer to specification section 271550 for additional information.
- E. Add keynote to each floor box with data outlets to read: "Route 1" conduit and cable below grade to nearest wall and rise up inside wall into ceiling space and extend related cabling through ceiling space to the MDF, typical unless noted otherwise.

Item No. AD-2.28: Reference Drawing E3.0, Communication Riser Diagrams

- A. Add sheet note to each riser diagram at details #1 and 2 to read: "All cabling shall be routed in EMT conduit when located in walls and shall transition to J-

Hooks when routed within accessible ceiling spaces. Where cabling must pass above gyp board ceilings, cabling shall be routed within EMT conduit.

Item No. AD-2.29:

Reference Drawing E3.1, Fire Alarm Symbols and Notes

A. Modify Fire Alarm Note No. 2 to read as follows:

"2. A FIRE ALARM SYSTEM IS BEING INSTALLED IN OCCUPANCIES LISTED. PROVIDE AND INSTALL AN EDWARDS FIRE ALARM SYSTEM AS INDICATED IN THE SPECIFICATIONS AND FIRE ALARM LEGEND."

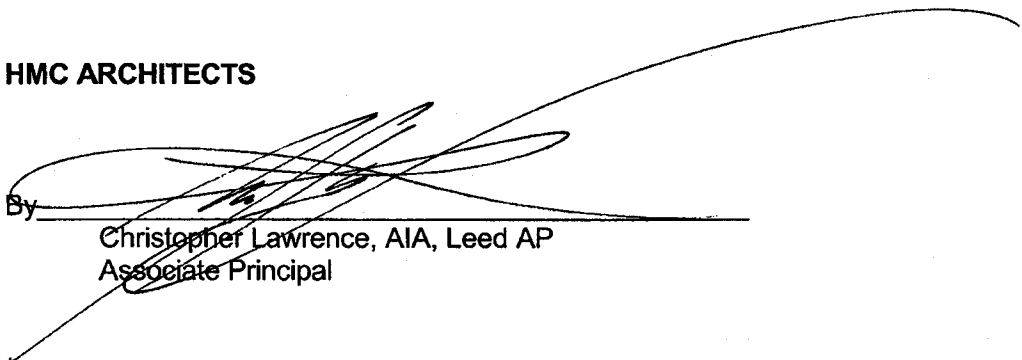
Item No. AD-2.30:

Reference Drawing E5.1, Panel Schedules

A. Where circuit breakers are indicated for HVAC equipment 'AC-1', 'AC-4' and 'AC-5', circuit breakers shall be 60A 3P type in lieu of 50A 3P indicated on panel schedule 'A'.

HMC ARCHITECTS

By


Christopher Lawrence, AIA, LEED AP
Associate Principal

SECTION 03 01 30
CONCRETE CLEANING

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Chemical cleaning of existing concrete surfaces.
- B. Related Sections
 - 1. Section 03 35 00, Concrete Floor Finishing
 - 2. Section 07 25 00, Concrete Slab Vapor Emissions Testing And Treatment
 - 3. Division 09 Section for Flooring.

1.02 SUBMITTALS

- A. Data on cleaning solutions.
- B. Manufacturers' application instructions.

1.03 QUALITY ASSURANCE

- A. Pre-installation Conference
 - 1. Convene pre-installation conference one week before starting Work of this Section.
 - 2. Require attendance of parties directly affecting Work of this Section.
 - 3. Review conditions and proposed procedures.
- B. Mockups: Prepare mockups on existing surface under same weather conditions to be expected during remainder of the Work.
 - 1. Clean an area approximately 25 square feet.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Furnish materials in manufacturer's packaging including instructions for use.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Do not wash down or wet surfaces when temperature may drop below 40 degrees F within twenty-four hours.
- B. Cleaning material shall not contain muriatic acid.

1.06 SEQUENCING/SCHEDULING

- A. Perform cleaning of surfaces during hours approved by the Owner.

PART 2 - PRODUCTS

2.01 CLEANING MATERIALS

- A. Products of the following manufacturers form the basis for design and quality intended.
 - 1. Prosoco Inc., Kansas City, KS. Product: SURE-KLEAN Light Duty Concrete Cleaner.
- B. Or equal as approved in accordance with Division 01, General Requirements for substitutions.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces to be cleaned are ready for Work of this Section.
- B. Beginning of installation means acceptance of existing surfaces and conditions.

3.02 PREPARATION

- A. Protect elements surrounding work of this Section from damage.
- B. Carefully remove and store fixtures, fittings, finishing hardware, accessories or other items that may be adversely affected by cleaning materials.
- C. Close off, areas, materials and surfaces not receiving work of this Section to protect from damage.
- D. Provide for thorough ventilation.

3.03 CLEANING EXISTING CONCRETE

- A. Cleaning: Minimum percent solution for specific condition of concrete surfaces to remove existing stains, waxes and coatings and leave surface with uniform, natural color and texture.
- B. Apply test sections to determine minimum percent solution.
- C. Avoid contact with skin and eyes per manufacturer's instructions.
- D. Complete cleaning operation with clean water rinse or special neutralizing rinse to ensure complete removal of all acidic ingredients.

3.04 CLEANING

- A. As work proceeds and on completion, remove excess mortar, droppings, smears, stains, efflorescence or other unsightly excess resulting from Work of this Section.

B. Clean surrounding surfaces.

END OF SECTION

SECTION 03 01 32

CONCRETE REHABILITATION

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Removal of deteriorated concrete and subsequent patching and rebuilding.
- B. Corrosion-inhibiting treatments.
- C. Related Sections
 - 1. Section 02 41 19 - Selective Demolition.
 - 2. Section 03 30 00 - Cast-in-Place Concrete.
 - 3. Section 07 25 00 - Concrete Slab Vapor Emissions Testing And Treatment

1.02 SUBMITTALS

- A. Product Data: Include material descriptions, chemical composition, physical properties, test data, and mixing and application instructions.
- B. Samples: Cured samples of patching materials.
- C. Qualification Data: For installers to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of Architects and Owners, and other information specified.
- D. Material Test Reports: From a qualified testing agency indicating and interpreting test results for compliance of bonding agents and patching mortars with requirements indicated.
- E. Rehabilitation program for each phase of the rehabilitation process, including protection of surrounding materials and Project site during operations. Describe in detail the materials, methods, equipment, and sequence of operations to be used for each phase of the Work.

1.03 QUALITY ASSURANCE

- A. Source Limitations: Obtain concrete patching and rebuilding materials through one source from a single manufacturer.
- B. Mockups: Build mockups for concrete removal and patching to demonstrate qualities of materials and execution.
 - 1. Approved mockups may become part of the completed Work if undisturbed at time of Certified Completion.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in manufacturer's original and unopened containers, labeled with type and name of products and manufacturers.
- B. Comply with manufacturer's written instructions for minimum and maximum temperature requirements and other conditions for storage.
- C. Store cementitious materials off the ground, under cover, and in a dry location.
- D. Store aggregates, covered and in a dry location, where grading and other required characteristics can be maintained and contamination avoided.

1.05 PROJECT CONDITIONS

- A. Cold-Weather Requirements for Cementitious Materials: Do not apply unless air temperature is between 40 and 90 deg F (5 and 32 deg C) and will remain so for at least 48 hours after completion of Work.
- B. Hot-Weather Requirements for Cementitious Materials: Protect repair work when temperature and humidity conditions produce excessive evaporation of water from patching materials. Provide artificial shade and wind breaks, and use cooled materials as required. Do not apply to substrates with temperatures of 90 deg F (32 deg C) and above.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following.
- B. Products: Subject to compliance with requirements, provide one of the following:
 - 1. Epoxy-Modified, Cementitious Bonding and Anticorrosion Agent:
 - a. Euclid Chemical Company; CORR-BOND.
 - b. Sika Corporation; Armatec 110 EpoCem.
 - 2. Latex Bonding Agent, Type I:
 - a. Euclid Chemical Company; EUCO WELD.
 - b. Sika Corporation; SikaLatex.
 - 3. Cementitious Patching Mortar:
 - a. Master Builders, Inc.: EMACO S66 CI, EMACO S77 CI
 - b. Sika Corporation; Sika Repair 223.
 - c. Sto Corp., Concrete Restoration Division; Sto Full-Depth Repair Mortar.
 - d. Mapei QUICKCEM TOP101.
 - 4. Polymer-Modified, Cementitious Patching Mortar:
 - a. Sika Corporation; Sika Top 121 Plus, Sika Top 122 Plus, Sika Top 123 Plus, or Sika Top 126 Plus.

- b. Sto Corp. Concrete Restoration Division; Sto Flowable Mortar. Sto Thin-Coat Mortar.
- c. Ardex Poly-Top.
- 5. Corrosion-Inhibiting Treatments:
 - a. Sika Corporation; Sika FerroGard 903.
 - b. Sonneborn, Div. of ChemRex, Inc.; Corrosion Inhibitor.

2.02 BONDING AGENTS

- A. Epoxy-Modified, Cementitious Bonding and Anticorrosion Agent: Product that consist of water-intensive epoxy adhesive, portland cement, and water-based solution of corrosion-inhibiting chemicals that forms a protective film on steel reinforcement.
- B. Latex Bonding Agent: ASTM C 1059, Type II at exterior locations and where indicated.
- C. Mortar Scrub-Coat: 1 part portland cement complying with ASTM C 150, Type I, II or III and 1 part aggregate complying with ASTM C 144, except 100 percent passing a No. 16 (1.18-mm) sieve.

2.03 PATCHING MORTAR

- A. Patching Mortar: Unless otherwise indicated, use of the following:
 - 1. Job-Mixed Patching Mortar: 1 part portland cement complying with ASTM C 150, Type I, II, or III and 2-1/2 parts fine aggregate complying with ASTM C 144, except 100 percent passing a No. 16 (1.18-mm sieve).
 - 2. Cementitious Patching Mortar: Packaged, dry mix complying with ASTM C 928.
 - 3. Polymer-Modified, Cementitious Patching Mortar: Packaged, dry mix complying with ASTM C 928, that contains a latex additive as either a dry powder or a separate liquid that is added during mixing.
- B. Coarse Aggregate for Adding to Patching Mortar: Washed aggregate complying with ASTM C 33 Size No. 8, Class 5S. Add only as permitted by patching mortar manufacturer.

2.04 CONCRETE

- A. Concrete Materials: Comply with Section 03 30 00 Cast-in-place Concrete.
- B. Fine Aggregate for Grout Used with Preplaced Aggregate: Fine aggregate complying with ASTM C 33, but with 100 percent passing a No. 8 (2.36-mm) sieve 95 to 100 percent passing a No. 16 (1.18-mm) sieve, 55 to 80 percent passing a No. 30 (0.6-mm) sieve, 30 to 55 percent passing a No. 50 (0.3-mm) sieve, 10 to 30 percent passing a No. 100 (0.15-mm) sieve, 0 to 10 percent passing a No. 200 (0.075-mm) sieve, and having a fineness modulus of 1.30 to 2.10.
- C. Grout Fluidifier for Grout Used with Preplaced Aggregate: ASTM C 937.
- D. Portland Cement for Grout Used with Preplaced Aggregate: ASTM C 150.

2.05 MISCELLANEOUS MATERIALS

- A. Corrosion-Inhibiting Treatment Materials: Water-based solution of alkaline corrosion-inhibiting chemicals that penetrates concrete by diffusion and forms a protective film on steel reinforcement.

2.06 MIXES

- A. Mix products in clean containers according to manufacturer's written instructions.
 1. Add clean silica sand and coarse aggregates to products only as recommended by manufacturer.
 2. Do not add water, thinners, or additives unless recommended by manufacturer.
 3. When practical, use manufacturer's pre-measured packages to ensure that materials are mixed in proper proportions. When pre-measured packages are not used, measure ingredients using graduated measuring containers; do not estimate quantities or use shovel or trowel as unit of measure.
 4. Do not mix more materials than can be used within recommended open time. Discard materials that have begun to set.
- B. Mortar Scrub-Coat: Mix with enough water to provide a consistency of thick cream.
- C. Concrete: Comply with Section 03 30 00 Cast-in-Place Concrete.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Notify Architect seven days in advance of dates when areas of delaminated concrete and reinforcing bars will be located.
- B. Locate areas of delamination using hammer or chain drag sounding and mark boundaries. Mark areas for removal by simplifying and squaring off boundaries of delaminated areas as directed by Architect.

3.02 PREPARATION

- A. Protect people, motor vehicles, equipment, surrounding construction, Project site, plants, and surrounding buildings from injury resulting from concrete rehabilitation work.
- B. Protect adjacent equipment and surfaces by covering them with heavy polyethylene film and waterproof masking tape. If practical, remove items, store, and reinstall after potentially damaging operations are complete.
- C. Surface Preparation for Corrosion-Inhibiting Treatment: Clean concrete by low-pressure water to remove dirt, oils, films, and other materials detrimental to treatment application. Allow surface to dry before applying corrosion-inhibiting treatment.

3.03 APPLICATION

- A. Epoxy-Modified, Cementitious Bonding and Anticorrosion Agent: Apply to reinforcing bars and concrete by stiff brush or hopper spray according to manufacturer's written instructions. Apply to reinforcing bars in two coats, allowing first coat to dry two to three hours before applying second coat. Allow to dry before placing patching mortar or concrete.
- B. Latex Bonding Agent, Type II: Mix with portland cement and scrub into concrete surface according to manufacturer's written instructions. If bonding agent dries, recoat before placing patching mortar or concrete.
- C. Mortar Scrub-Coat: Dampen repair area and surrounding concrete 6 inches (150 mm) beyond repair area. Remove standing water and apply scrub-coat with a brush, scrubbing it into surface and thoroughly coating repair area. If scrub-coat dries, recoat before applying patching mortar or concrete.
- D. Patching Mortar: Unless otherwise recommended by manufacturer, apply as follows:
 - 1. Wet substrate thoroughly and then remove standing water. Scrub a slurry of neat patching mortar mixed with latex bonding agent into substrate, filling pores and voids.
 - 2. Place patching mortar by troweling toward edges of patch to force intimate contact with edge surfaces. For large patches, fill edges first and then work toward center, always troweling toward edges of patch. At fully exposed reinforcing bars, force patching mortar to fill space behind bars by compacting with trowel from sides of bars.
 - 3. Wet-cure cementitious patching materials, including polymer-modified, cementitious patching materials, for not less than seven days by water-fog spray or water-saturated absorptive cover.
- E. Concrete: Place according to Section 03 30 00 Cast-in-Place Concrete.
 - 1. Fill placement cavities with dry-pack mortar and repair voids with patching mortar. Finish to match surrounding concrete.
- F. Corrosion-Inhibiting Treatment: Apply by brush, roller, or airless spray in two coats at manufacturer's recommended application rate. Remove film of excess treatment by high-pressure washing before patching treated concrete.

3.04 FIELD QUALITY CONTROL

- A. Patching Mortar, Packaged Mixes: Randomly selected samples tested according to ASTM C928.
- B. Patching Mortar, Field Mixed: Randomly selected samples tested for compressive strength according to ASTM C 109/C 109M.

END OF SECTION

SECTION 03 35 35
CONCRETE SEALER

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Penetrating floor sealer hardener and densifier, at all exterior exposed concrete floors.
- B. Related Sections:
 - 1. Section 03 30 00, Concrete.
 - 2. Section 32 13 13, Concrete Sitework.

1.02 REFERENCES

- A. ASTM C779-05 – Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.
- B. ASTM D2047, minimum 0.6 COF for level surface conditions.

1.03 PERFORMANCE REQUIREMENTS

- A. 1/8 - 1/4 inch minimum penetration of existing concrete floors.
- B. Dustproofing
- C. Hardener, sealer, densifier.

1.04 SUBMITTALS

- A. Product data for coating materials.
- B. Samples
- C. Manufacturers' installation instructions.
- D. Maintenance data. Include maintenance and cleaning requirements for coatings, and re-coating techniques.

1.05 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacture of concrete sealers with five years experience.
- B. Applicator: Company specializing in applying work of this Section with three years experience and approved by manufacturer.
- C. Field Samples

1. Provide field sample panel, 48 inch long by 48 inch wide, illustrating surface sheen.
2. Locate where approved by Architect.
3. Accepted sample may remain as part of the Work.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver products to site under provisions of Division 01, General Requirements.
- B. Store and protect products under provisions of Division 01, General Requirements.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Non-toxic, non-flammable material.
- B. Restrict traffic from area where coating is being applied or is curing.
- C. Do not apply materials when humidity is above 90 percent.

1.08 WARRANTY

- A. Provide ten year application warranty and 20 year material warranty under provisions of Division 01.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Products of following manufacturers form basis for design and quality intended.
 1. ASHFORD FORMULA/SHURE-SEAL by Curecrete Chemical Co., Springville, UT;
 2. Paul M. Wolff Co., Inc., Orange, CA.
 3. Chemprobe CT Densifier 201 by Tnemec Company;
 4. LIQUI-HARD by W.R, Meadows.
 5. L & M Construction Specialties: SEAL HARD
 6. Dayton Superior: Sure Hard J-17
 7. Vexcon: Starseal PS Clear.
- B. Or equal as approved in accordance with Division 01, General Requirements for substitutions.

2.02 MATERIALS

- A. Combination Hardener and Sealer: ASHFORD FORMULA by Curecrete Chemical Co., Springville. Waterbase, inorganic silicate material.
- B. Combination Hardener and Sealer: SHUR-SEAL, silicate blend.
- C. Verify all curing compounds have been removed.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive Work of this Section as instructed by manufacturer. Surfaces shall be clean, dry and free of substances that could affect penetration and finish, per Section 03 01 30.
- B. Do not begin installation until unsatisfactory conditions are corrected. Beginning installation means acceptance of existing conditions and preparatory work of others.

3.02 PROTECTION

- A. Protect elements surrounding and work of this Section from damage or disfiguration.

3.03 PREPARATION

- A. Mask and protect adjacent surfaces and materials not receiving coating materials. Repair damage.

3.04 APPLICATION - COATING

- A. Apply two coatings in accordance with manufacturer's instructions.
- B. Brush, mop or spray apply solution at rates recommended by manufacturer (approximately 400 square feet per gallon). Patch test required to determine coverage rate.

3.05 FIELD QUALITY CONTROL

- A. Field inspection will be performed under provisions of Division 01, General Requirements.
- B. Do not allow water on surface for 30 days.

3.06 CLEANING

- A. Clean surfaces of overspray or splatter and excess material.

3.07 PROTECTIONS

- A. Protect finished installation. Prevent construction traffic by use of suitable covering for 5 hours.

END OF SECTION

SECTION 05 05 14
HOT - DIP GALVANIZING

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Hot-dip galvanizing of iron and steel materials.
- B. Structural steel members, Section 05 12 00.
- C. Related Work
 - 1. Steel materials, fabrications and assemblies are specified to be furnished and installed in various other sections (including, but not limited to sections listed here.)

1.02 REFERENCES

- A. Publications
 - 1. American Galvanizers Association (AGA):
 - a. Inspection of Products Hot-dip Galvanized After Fabrication
 - b. The Design of Products to be Hot-dip Galvanized After Fabrication
 - c. Recommended Details of Galvanized Structures
 - d. Quality Assurance Manual
 - 2. Research Council on Structural Connections of the Engineering Foundation:
 - a. Specification for Structural Joints Using ASTM A 325 or A 490 bolts.
- B. Reference Standards
 - 1. American Society for Testing and Materials (ASTM):
 - a. A 123 / A 123M Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - b. A 143 Practice for Safeguarding Against Embrittlement of Hot-Dip Galvanized Structural Steel Products and Procedure for Detecting Embrittlement.
 - c. A 153 / A 153M Zinc Coating (Hot-Dip) on Iron and Steel Hardware
 - d. A 384 Practice for Safeguarding Against Warpage and Distortion During Hot-Dip Galvanizing of Steel Assemblies
 - e. A 385 Practice for Providing High-Quality Zinc Coatings (Hot-Dip)
 - f. A 767 / A 767M Specification for Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement
 - g. A 780 Repair of Damaged Hot-Dip Galvanized Coatings
 - h. B 6 Specification for Zinc
 - i. D 6386 Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Painting
 - j. E 376 Practice for Measuring Coating Thickness by Magnetic-Field or Eddy-Current (Electromagnetic) Test Methods
 - 2. Federal specifications

- a. DOD-P-21035 Paint, High Zinc Dust Content, Galvanizing Repair
- b. MIL-P-26915 Primer Coating, Zinc Dust Pigmented.

1.03 SUBMITTALS

- A. In accordance with provisions of Division 01, submit an original and two copies of the coating applicator's notarized Certificate of Compliance that the hot-dip galvanized coating meets or exceeds the specified requirements of ASTM A 123 / A 123M, A 153 / A 153M.
- B. Submit a list of steel items to be galvanized.

1.04 QUALITY ASSURANCE

- A. Coating applicator: Company specializing in hot-dip galvanizing after fabrication and following the procedures in the *Quality Assurance Manual* of the American Galvanizers Association.
- B. Pre-construction Conference for Metal Fabrications: Contractor shall schedule a meeting to be attended by contractor, Architect, fabricator and galvanizer. Topics to be addressed include project schedule, scope of metal fabrications, coordination between fabricator and galvanizer, finish of surfaces, application of coatings, submittals and approvals.
- C. Coordination Between Fabricator and Galvanizer: Prior to fabrication, fabricators shall submit approved fabrication shop drawings to the galvanizer. The Galvanizer shall review fabricator's shop drawings for suitability of materials for galvanizing and coatings and coordinate any required fabrication modifications.
- D. Materials: For steel to be hot-dip galvanized, provide steel chemically suitable for metal coatings complying with the following requirements: carbon below 0.25%, phosphorous below 0.04%, manganese below 1.3%, and silicon below 0.04%. Notify the galvanizer if steel does not meet these requirements so that suitability for galvanizing may be determined and whether special processing techniques are required.
- E. Approved Samples: Provide four samples of each item galvanized representing galvanized finish for Architect's approval. In the samples include the repaired finished method for approval. Maintain approved samples on site which will become the Approved Finish measured against future work. Galvanized items not meeting the approved samples will be rejected as non-conforming work.

1.05 DELIVERY, STORAGE & HANDLING

- A. Store and protect products under the provisions of Division 01 General Requirements.
- B. Load and store galvanized articles in accordance with accepted industry standards.

PART 2 - PRODUCTS

2.01 ACCEPTABLE COATING APPLICATORS

- A. Members of the American Galvanizers Association as approved by the Architect. A list of American Galvanizers Association members is available upon request (800-468-7732).

2.02 STEEL MATERIALS

- A. Material for galvanizing to be geometrically suitable for galvanizing as described in ASTM A 384 and A 385. Steel materials suitable for galvanizing include structural shapes, pipe, sheet, fabrications and assemblies.
- B. Material to be chemically suitable for galvanizing.
- C. Recommended steel materials for hot-dip galvanizing include but are not limited to:
 1. Structural shapes and plates: ASTM A 36, A 242 type 2, A 283, A 441, A 500, A 501, A 529, A 572, A 588 and A 992.
 2. Steel for fasteners:

General Category	Bolt Material	Nut Material
Carbon Steel	A 307 Gr A or B	A 563 Gr A
High-strength	A 325 Type 1	A 563 Gr DH
Tower Bolts	A 394	A 563 Gr A
Quenched & Tempered (Carbon Steel Bolts)	A 499	A 563 Gr C
Quenched & Tempered (Alloy Steel Bolts)	A 354 Gr BC	A 563 Gr DH

3. Steel for sheet metal articles: ASTM A 569 or A 570.
4. Steel for pipe or tubing: ASTM A 53, A 120 or A 595, Gr A or B.

2.03 FABRICATION REQUIREMENTS

- A. Fabricate structural steel in accordance with Class I, II, III guidelines as described in AGA's Recommended Details for Galvanized Structures.
- B. Fabrication practices for products to be in accordance with the applicable portions of ASTM A 143, A 384, and A 385, except as specified herein. Avoid fabrication techniques that could cause steel distortion or embrittlement.
- C. The fabricator shall consult with Architect and hot-dip galvanizer regarding potential concerns, including handling issues, during the galvanizing process that may require design modification before fabrication proceeds.

- D. Remove all welding slag, splatter, anti-splatter compounds and burrs prior to delivery for galvanizing.
 - 1. Cleaning Materials: Materials being fabricated shall be thoroughly cleaned of scale and rust, utilize grit or sand blasting techniques to produce smooth substrate. Cleaning methods shall not damage material. After punching or fabrication of component parts of a member, twists or bends shall be removed before parts are assembled.
 - 2. After fabrication, items indicated or specified to be galvanized shall be galvanized in largest practical sizes. Fabrication includes operations of shearing, punching, bending, forming, assembling or welding. Galvanized items shall be free from projections, barbs, or icicles resulting from the galvanizing process.
 - 3. Galvanized items to be painted: do not use quenching solutions or treatments immediately after galvanizing. Refer to individual sections for items to be painted and Section 09 90 00.
- E. Provide holes and/or lifting lugs to allow for handling during galvanizing.
- F. Avoid unsuitable marking paints. Consult with the galvanizer about removal of grease, oil, paint and other deleterious material prior to fabrication.
- G. Remove by blast-cleaning, or other methods, surface contaminants and coatings that are not removable by the normal chemical cleaning process in the galvanizing operation.
- H. Whenever possible, slip joints should be used to minimize field welding of material.
- I. Verify that weld sizes, fabrication sequence, and equipment used for Architecturally Exposed Structural Steel (AESS) will limit distortions to allowable tolerances. Prevent weld show-through on exposed steel surfaces. Grind butt welds flush. Grind or fill exposed fillet welds to smooth profile. Dress exposed welds.

PART 3 - EXECUTION

3.01 SURFACE PREPARATION

- A. Pre-clean steel work in accordance with accepted methods to produce an acceptable surface for High Quality hot-dip galvanizing. SSPC-SP 6 commercial blast cleaning for Architecturally Exposed Structural Steel (AESS).

3.02 COATING APPLICATION

- A. Galvanize steel members, fabrications and assemblies after fabrication by the hot-dip process in accordance with ASTM A 123 / 123M, Grade 85, minimum 2.0 oz/sq. ft.
- B. Galvanize bolts, nuts, washers and iron and steel hardware components in accordance with ASTM A 153 / 153M.
- C. Safeguard products against steel embrittlement in conformance with ASTM A 143.

- D. Handle all articles to be galvanized in such a manner as to avoid any mechanical damage and to minimize distortion.

3.03 COATING REQUIREMENTS

- A. Conform to paragraph 6.1 of ASTM A 123 / 123M, Table 1 of ASTM A 153 / 153M.
- B. Surface Finish: Continuous, adherent, as smooth and evenly distributed as possible and free from any defect detrimental to the stated end use of the coated article.
- C. Adhesion: Withstand normal handling consistent with the nature and thickness of the coating and normal use of the article.

3.04 TESTS

- A. Inspection and testing of hot-dip galvanized coatings shall be done under the guidelines provided in the AGA publication Inspection of Products Hot-dip Galvanized After Fabrication.
- B. Include visual examination and tests in accordance with ASTM A 123 / 123M, A 153 / 153M, to determine the thickness of the zinc coating on the metal surface.
- C. Furnish notarized Certificate of Compliance with ASTM standards and specifications herein listed. The Certificate must be signed by the galvanizer and contain a detailed description of the material processed. The Certificate shall include information as to the ASTM standard used for the coating.

3.05 REPAIR OF DAMAGED COATING

- A. The maximum area to be repaired is defined in accordance with ASTM A 123 / 123M, Section 6.2, current edition.
 - 1. The maximum area to be repaired in the field shall be determined in advance by mutual agreement between parties.
- B. Repair areas damaged by welding, flame cutting or during handling, transport or erection by one of the approved methods in accordance with ASTM A 780 whenever damage exceeds 3/16" in width. Minimum thickness requirements for the repair are those described in ASTM A 123 / 123M, Section 6.2, current edition.

END OF SECTION

SECTION 07 31 13
ASPHALT SHINGLES

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Asphalt shingle roofing system.
- B. Moisture shedding underlayment, eave, valley and ridge protection.
- C. Associated metal flashings.
- D. Ridge Vents.

1.02 REFERENCES

- A. ASTM A 653, G90 (ASTM 653M, 275) - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- B. ASTM D 226 - Asphalt-Saturated Organic Felt used in Roofing and Waterproofing.
- C. ASTM D 3018 - Class A Asphalt Shingles Surfaced with Mineral Granules.
- D. ASTM D 4586 - Asphalt Roof Cement, Asbestos Free.
- E. ASTM D 3161 – Standard Test Method for Wind-Resistance of Asphalt Shingles.
- F. ASTM D 3462- Standard Specification for Asphalt Shingles Made from Glass Felt and Surface with Mineral Granules.
- G. ASTM E 108 – Standard Test Methods for Fire Tests of Roof Coverings.
- H. Steep Roofing Manual, The NRCA Roofing and Waterproofing Manual - Fourth Edition.
- I. UL 580 - Wind Uplift Resistance of Roof Assemblies.
- J. UL 790 - Fire Resistance of Roof Covering Materials.
- K. Chapter 15 - California Building Code, 2010.

1.03 SUBMITTALS

- A. Two full size samples.
- B. Shop Drawings: Indicate specially configured metal flashings, jointing methods and locations, fastening methods and locations and installation details.

- C. **Product Data:** Provide data indicating material characteristics, performance criteria, limitations and weights.
- D. **Manufacturer's Installation Instructions:** Indicate preparation required and installation procedures.
- E. **Written guarantees, signed by Contractor and installer.**

1.04 QUALITY ASSURANCE

- A. **Perform Work in accordance with NRCA Steep Roofing Manual and applicable sections of Chapter 15, California Building Code.**
- B. **Maintain one copy of document on site.**
- C. **Manufacturer:** Company specializing in manufacturing products specified in this Section with minimum of three years experience.
- D. **Applicator:** Company specializing in applying specified roofing system with minimum of five years experience and approved by manufacturer.
- E. **Regulatory Requirements**
 - 1. **Conform to Section 1507, California Building Code and ASTM D 3018 Class A, UL 790 fire resistance, UL 580 wind uplift for shingle types specified. Provide certificate of compliance from manufacturer indicating approval of specified products.**
 - 2. **Provide UL labels on all materials.**
- F. **Pre-installation Conference**
 - 1. **Convene two weeks before starting Work of this Section.**
 - 2. **Review installation procedures and coordination required with related Work.**

1.05 DELIVERY, STORAGE AND HANDLING

- A. **Deliver products in manufacturer's original containers, dry, undamaged, seals and labels intact.**
- B. **Store products in weather protected environment, clear of ground and moisture.**
- C. **Stand roll materials on end.**

1.06 COORDINATION

- A. **Coordinate Work with work of other Sections.**
- B. **Coordinate Work with installing associated metal flashings as work of this Section proceeds.**

1.07 WARRANTY

- A. Provide under provisions of Division 01, General Requirements.
- B. Provide two-year guarantee to maintain roofing, flashings and counterflashing in watertight condition, from date of acceptance.
- C. Provide 50 year manufacturer's limited warranty.

1.08 ENVIRONMENTAL REQUIREMENTS

- A. Do not install eave edge protection and shingles when wind chill temperatures are below 50 degrees F.
- B. Do not apply roofing materials to damp or frozen deck surfaces.
- C. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed during same day.

1.09 EXTRA MATERIALS

- A. Provide 10 square feet of extra shingles of each color installed.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Products of following manufacturers form basis for design and quality intended for asphalt shingles.
 - 1. GAF Corporation, Wayne, NJ.
 - 2. Georgia-Pacific Corp., Decatur, GA.
 - 3. Certainteed Corporation, Valley Forge, PA.
 - 4. Elk Building Products, Dallas, TX.
 - 5. IKO, Wilmington, DE.
- B. Or equal as approved in accordance with Division 01, General Requirements for substitutions.

2.02 ASPHALT SHINGLES

- A. Asphalt Shingles: ASTM D 3018 and ASTM E 108, Class A, Type I Self-Sealing, UL Class A Fire Resistance Rating and Wind Resistance Label passes UL 997, glass fiber mat base, mineral granule surface type, ASTM D 3462; heavyweight shingle, 4 tab type.

2.03 SHEET MATERIALS

- A. Underlayment: ASTM D 226, Type II, No. 30, asphalt saturated organic felt, unperforated.
- B. Eave Protection: ASTM D 1970, Self-adhering, self sealing, bituminous leak barrier surfaced with fine, skid-resistant granules. 58 mils thick.
- C. Hip and Ridge Cap Shingles: Class A Fire rated UL 790, multi-layered design, 12" wide 6" exposure, manufacturer's standard model, color to match shingles.

2.04 RIDGE VENTS

- A. Manufacturer's standard rigid section high-density polypropylene or other UV-stabilized plastic ridge vent with non-woven geotextile filter strips and with external deflector baffles; for use under ridge shingles.
 - 1. Provide 18.5 sq in NFVA per lineal foot.

2.05 VENTED ROOF EDGE SYSTEM

- A. The following manufacturers form basis for design and quality intended.
 - 1. Structeavent, LLC, Waukesha, WI/ Metal-Era Airflow Products; Product: System SV.
 - 2. Or equal as approved in accordance with Division 01, General Requirements for substitutions.
- B. Materials
 - 1. Galvanized steel, ASTM A 653, G-90, Grade 40, structural quality.
 - 2. Finish: High Performance Coating as specified in Section 09 90 00.
 - a. Colors: As selected by Architect.

2.06 ACCESSORIES

- A. Nails: Standard round wire shingle type, hot dipped zinc coated steel, minimum 3/8 inch head diameter and 12 gauge shank diameter, of sufficient length to penetrate through roof sheathing.
- B. Fasteners: Wood and Steel Deck; Dekfast #12 Phillips Head Screw or equal and as recommended by roof manufacturer. Non-corrosive, drill points, Factory Mutual approved for Class 1-90 uplift, with lengths sufficient to penetrate deck minimum of 3/4 inch with 3 inch metal stress plate.
- D. Plastic Cement: ASTM D4586, asphalt type with mineral fiber components, free of toxic solvents, capable of setting within 24 hours at temperatures of 75 degrees F and 50 percent RH; GAF PLASTIC CEMENT, troweling consistency, applied at rate of 75 pounds per 100 square feet at 1/8 inch thick.

- E. Lap Cement: Fibrated cutback asphalt type, free of toxic solvents; GAF SHINGLSTIK, caulking gun consistency, applied at rate of 1-1/2 gallons per 100 square feet.

2.07 FLASHING MATERIALS

- A. Sheet Flashings: ASTM A653, G-90 (ASTM A653M, Z275); 24 gauge thick steel with minimum 0.0396 inch thick, galvanized coating.
- B. Bituminous Paint: Acid and alkali resistant type; black color.

2.08 FLASHING FABRICATION

- A. Form flashings to profiles indicated on Drawings, and to protect roofing materials from physical damage and shed water.
- B. Form sections square and accurate to profile, in maximum possible lengths, free from distortion or defects detrimental to appearance or performance. Provide for expansion and contraction.
- C. Hem exposed edges of flashings minimum 1/4 inch on underside.
- D. Apply bituminous paint on concealed surfaces of flashings.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify existing site conditions.
- B. Verify that roof penetrations and plumbing stacks are in place and flashed to deck surface.
- C. Verify roof openings are correctly framed prior to installing work of this Section.
- D. Verify deck surfaces are dry, free of ridges, warps or voids.

3.02 PREPARATION

- A. Fill knot holes and surface cracks with latex filler.
- B. Broom clean deck surfaces and underlayment.

3.03 UNDERLAYMENT

- A. Single-Layer Felt Underlayment: Install single layer of felt underlayment on roof deck perpendicular to roof slope in parallel courses. Lap sides a minimum of 2 inches (50 mm) over underlying course. Lap ends a minimum of 4 inches (100 mm). Stagger end laps between succeeding courses at least 72 inches (1830 mm). Fasten with roofing nails.

1. Install felt underlayment on roof deck not covered by eaves protection membrane. Lap sides of felt over eaves protection membrane not less than 3 inches (75 mm) in direction to shed water. Lap ends of felt not less than 6 inches (150 mm) over eaves protection membrane.

3.04 INSTALLATION - VALLEY PROTECTION

- A. Install eaves protection membrane minimum 36 inches wide, centered over valleys. Weather lap joints minimum 6 inches and seal. Nail in place minimum 18 inches on centers, one inch from edges.
- B. Place one layer of sheet metal flashings over eaves protection membrane, minimum 24 inches wide, centered over open valleys and crimped "W"- shaped splash diverter 1 inch high to guide water. Nail in place minimum 18 inches on centers, one inch from edges.
- C. Trim shingles on both slopes across valley and fasten. Extend shingles minimum of 3 inches beyond valley center line to achieve an exposed valley.

3.05 INSTALLATION - EAVES

- A. Install eaves edge metal flashing tight with fascia boards; lap joints 2 inches (50 mm) and seal with plastic cement; nail at the top of the flange.
- B. In the north, and on all roofs between 2/12 and 4/12 (low slopes) install eaves protection membrane up the slope from eaves edge a full 36 inches or to at least 24 inches (610 mm) beyond the interior "warm wall". Lap ends 6 inches (150 mm) and bond.

3.06 INSTALLATION - METAL FLASHING

- A. Weather lap joints minimum 2 inches and seal weather tight with plastic cement.
- B. Secure in place with nails at 6 inches on centers. Conceal fastenings.
- C. Flash and seal work projecting through or mounted on roofing with plastic cement, weather tight.

3.07 INSTALLATION - ASPHALT SHINGLES

- A. Install shingles in accordance with manufacturer's instructions, minimum 6 nails per shingle.
- B. Place shingles in straight coursing pattern with 5-5/8 inch [GAF Timberline Ultra] weather exposure to produce triple thickness over full roof area. Provide triple course of shingles at eaves. [Install in design combination as selected by Architect.]

- C. Project first course of shingles 3/4 inch beyond fascia boards.
- D. Extend shingles 1/2 inch beyond face of gable edge fascia boards.
- E. Cap hips and ridges with individual shingles, maintaining [5-5/8] inch weather exposure. Place to avoid exposed nails.
- F. After installation, place one daub of plastic cement, one inch diameter under each individual shingle tab exposed to weather, to prevent lifting.
- G. Coordinate installation of roof-mounted components or work projecting through roof with weather tight placement of counter flashings.
- H. Complete installation to provide weather tight service.
- I. Paint exposed valley flashing under the requirements of Section 09 90 00, Painting.

3.08 FIELD QUALITY CONTROL

- A. Field inspection will be performed by material's manufacturer.
- B. Visual inspection of Work by Architect.

3.09 PROTECTION OF FINISHED WORK

- A. Protect finished Work.
- B. Do not permit traffic over finished roof surface.

END OF SECTION

SECTION 07 92 00

JOINT SEALANTS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Preparing substrate surfaces.
- B. Sealant and joint backing.
- C. Related Section:
 - 1. Section 07 84 00 Firestopping. For fire-rated assemblies.

1.02 REFERENCE

- A. ASTM C834 - Latex Sealing Compounds.
- B. ASTM C881 - Epoxy-Resin Base Bonding Systems for Concrete.
- C. ASTM C919 - Use of Sealants in Acoustical Applications.
- D. ASTM C920 - Elastomeric Joint Sealants.
- E. ASTM D1056 - Flexible Cellular Materials - Sponge or Expanded Rubber.
- F. ASTM C1184 - Structural Silicone Sealant.
- G. ASTM C1193 - Standard Guide for Use of Joint Sealants.
- H. ASTM C1311 - Solvent Release Sealants. Butyl and acrylic base polymer.
- I. ASTM C1330 - Cylindrical Sealant Backing for Use with Cold Liquid-Applied Sealants.
- J. SWRI (Sealant, Waterproofing and Restoration Institute) - Sealant and Caulking Guide Specification (www.SWRIONLINE.org).
- K. GANA: Glass Association of North America Sealant Manual, 2008.
- L. SCAQMD - South Coast Air Quality Management District Regulations Rule 1168 Adhesive and Sealant Applications

1.03 SUBMITTALS

- A. Product Data: Provide data indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.
- B. Manufacturer's installation Instructions: Indicate special procedures, surface preparation, and perimeter conditions requiring special attention.

1.04 QUALITY ASSURANCE

- A. Perform Work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Perform acoustical sealant application work in accordance with ASTM C919.
- C. Prepare sample joints in the construction to demonstrate to the Architect the quality of the Work to be performed. Accepted sample joints will be used to judge the quality of the Work.
- D. Qualifications
 - 1. Manufacturer: Company specializing in manufacturing the Products specified in this Section with minimum three years experience.
 - 2. Applicator:
 - a. Pre-qualified applicator specializing in performing Work of this Section with minimum three years experience and approved by manufacturer.
 - b. This applicator shall be licensed joint sealing specialty Contractor.
 - c. Submit list of completed local projects of similar sealant applications.
- E. Comply with Air Quality Regulations, California Regulations:
 - 1. SCAQMD Rule 1168 compliant VOC limit of 250.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

1.06 COORDINATION

- A. Coordinate the Work with all Sections referencing this Section.

1.07 WARRANTY

- A. Provide five-year product warranty, submit under provisions of Division 01, General Requirements.
- B. Provide two-year installer's warranty, submit under provisions of Division 01, General Requirements.
- C. Warranty: Include coverage for installed sealants and accessories which fail to achieve air tight seal, water tight seal, exhibit loss of adhesion or cohesion, or do not cure.
- D. Upon written notification of failure due to defective materials or application, repair or replace failure to the approval of the Architect and at no cost to Owner.

PART 2 - PRODUCTS

2.01 SEALANT AND MATERIAL MANUFACTURERS

- A. Following is list of acceptable manufacturers of sealants and sealant materials. Inclusion in this list is not intended to imply that all manufacturers make all products. Products made by listed manufacturers must comply with all specified requirements.
1. Bostik Construction Products.
 2. Dow Corning Corporation (www.dowcorning.com/construction)
 3. Sika Corporation.
 4. General Electric Company.
 5. W.R. Meadows, Inc.
 6. Pecora Corporation.
 7. Mameco International.
 8. Tremco/Vulkem.
 9. Sonneborn, ChemRex Inc.
 10. Hilti
 11. 3M Company
- B. Substitutions: Under provisions of Division 01, General Requirements.

2.02 SEALANT TYPES

- A. Single-Component Urethane: ASTM C 920, Type S, Grade NS, Class 35, Use NT, A, M, and O; USDA and FDA status.
- B. Single-Component Urethane (Self-Leveling): ASTM C 920, Type S, Grade P, Class 35, Use T, A, M.
- C. Multi-Component Urethane (Gun-Grade): ASTM C 920, Type M, Grade NS, Class 35, Use NT, A, M, and O.
- D. Multi-Component Polyurethane (Gun-Grade): ASTM C 920, Type M, Grade NS, Class 35, Use T, A, M, and O.
- E. Multi-Component Urethane (Self-Leveling): ASTM C 920, Type M, Grade P, Class 25, Use T, A, M, and O.
- F. Single-component sealant, Silicone (Neutral-curing): ASTM C 920, Type S, Grade NS, Class 35, Use NT, G, A, M, and O; USDA, NSF and FDA 21 CFR 177.2600 approved.
- G. Single-component sealant, Silicone (Neutral-curing.): ASTM C 920, Type S, Class 100/50, Grade P, Use T, and O.
- H. Single-component, modified silicone polymer (silyl-terminated polyether resin - STPe), elastomeric sealant with plus-100-percent to minus-50-percent movement and complying with ASTM C-920, Type S, Grade NS, Uses NT, G, M, A, and O.
1. Acceptable Product: BASF, Sonolastic 150 Tint Base, or equal. Color shall be as selected by the Architect from the manufacturer's full range of available colors.

- I. Acrylic-Latex Caulk: ASTM C 834, Type OP or C, Grade 18 deg. C.
- J. Bedding Compound: For installation of thresholds and similar items indicated to be bedded in sealant, use a preformed butyl-polyisobutylene sealant tape. Size of tape as required for the specific application.
- K. Structural Silicone Sealant: ASTM C1184, compatible with system components with which it comes in contact, specifically formulated and tested for use as a structural sealant.
 - 1. Color: As selected by Architect from manufacturer's full range of colors.
 - 2. Tensile Strength: 100 psi minimum.
 - 3. Provide sealant with high performance structural silicone, high modulus of elasticity that will not allow movement of more than 50 percent. Dow Corning 995 Silicone Structural Glazing Sealant for gray, black, white, or 795 Silicone Building Sealant for clear.
- L. Adhesives: Type that complies with Mil. Spec. MIL-A-46146
 - 1. Product: Dow Corning 3145 Silicone Adhesive
 - 2. Color: Clear or Translucent.
 - 3. Peel Strength: 75
- M. Acoustical Sealant – gunnable type, non-drying, non-hardening permanently flexible, ASTM C919, ASTM C834, ASTM C920.
 - 1. Manufacturers: Tremco Acoustical Sealant, U.S. Gypsum Sheetrock Acoustical Sealant, Pecora Corp. BA-98 or equal.
- N. Fire-Rated Sealants: Per Section 07 84 00 Firestopping.
- O. Butyl Sealants: Butyl rubber sealant, BC-158 by Pecora or equal in compliance with VOC regulations of local Air Quality Districts.

2.03 JOINT AND SURFACE TYPES

- A. Pedestrian and Vehicle Traffic Joints - Provide one of the following for each joint type:
 - 1. Multi-component urethane (self-leveling)
 - 2. Single-component urethane (self-leveling)
 - 3. Single-component sealant, silicone (neutral curing)
- B. Non-Traffic Deck Joints - Provide one of the following for each joint type:
 - 1. Multi-component urethane (gun-grade)
 - 2. Single-component urethane
 - 3. Single-component sealant, silicone
- C. Concrete Surfaces exceeding 20 square feet.
 - 1. Single-Component Silicone (Neutral-curing.): ASTM C 920 Class 25, Type S, Grade P, Use T, and O (self-leveling).
- D. Vertical Joints - Provide one of the following for each joint type:
 - 1. Multi-component urethane (gun-grade)

2. Single-component sealant, silicone (neutral cure)
- E. Expansion, Control, and Perimeter Joints - Provide one of the following for each joint type:
1. Multi-component urethane (self-leveling)
 2. Single-component urethane; use only where dynamic movement will not exceed 50 percent of joint width - above or below grade
 3. Single-component urethane (self-leveling)
 4. Single-component sealant, silicone.
- F. Curtainwalls, storefronts, entrances, and Related Assemblies - Provide one of the following for each joint type or installation at perimeter of aluminum-framed systems:
1. Single-component silicone (neutral-curing)
 2. Non-Moving Joints, Interior and Exterior: Single-component sealant, silicone (neutral cure),-ASTM C920.
- G. Water-Immersion Areas - Provide one of the following for each joint type, ASTM C920, Class 25, Use I, T, NT, M, and O.:
1. Multi-component urethane (self-leveling)
 2. Single-component urethane (self-leveling)
 3. Multi-component polysulfide (self-leveling)
 4. Multi-component polysulfide (non-sag)
- H. Glazing - Provide one of the following for each joint type:
1. Single-component sealant, silicone (neutral-curing).
 2. Structural silicone sealant for Structural Glazing.
- I. Wood Window Glazing - Acrylic-latex caulk.
- J. Acoustical Sealant – gunnable, provide the following:
1. Non-drying, non-hardening, non-skinning sealant type, ASTM C919.
 2. Acrylic-latex caulk, Type OP opaque or Type C clear at visual locations, ASTM C834.
 3. Chemically curing Sealant, for interior sound reduction application, ASTM C920.
- K. Kitchen Areas: Sealant complying with FDA requirements for use in food areas - Provide one of the following for each joint type:
1. Single-component urethane
 2. Single-component silicone (neutral-curing)
 3. Single-component silicone (acid cure)
- L. Toilet and Bath Areas: Sealant containing a fungicide for mildew resistance - Provide one of the following for each joint type:
1. Single-component silicone (neutral-curing)
 2. Single-component silicone (acid cure)
- M. Exterior Doors and Windows: Sealant used for exterior joints or butyl rubber.
1. Fire-rated sealant at fire-rated assemblies per Section 07 84 00.

- N. Interior Doors and Windows - Provide one of the following for each joint type:
1. Single-component sealant, silicone (neutral cure)
 2. Fire-rated sealant at fire-rated assemblies per Section 07 84 00.
 3. [Acrylic-latex caulk, ASTM C834, non-elastomeric.]
 4. [Butyl rubber, ASTM C1311. VOC compliant]
- O. Built-In Cabinet Work: In kitchen, toilet, and bath areas, as specified for those areas. In other areas, single-component silicone (neutral-curing) or acrylic-latex caulk.
- P. Rated Walls: Fire-rated Sealant, per UL Systems classification and in accordance with Section 07 84 00.
1. Fire-rated assemblies: Per Section 07 84 00 Firestopping, fire-rated sealant between rated walls or ceilings and their adjoining rated materials and construction, including but limited to door and window frames.
- Q. Miscellaneous locations: Butyl rubber at all gaps, holes, openings, under wood sills, penetrations or channel metal track in exterior envelope of building not identified herein. Install as directed by the Architect.
1. Seal all cutouts and penetrations: For electrical, mechanical, plumbing and structural framing cutouts and penetration at interior surfaces with acoustical sealant and fire-rated sealant for rated walls per section 07 84 00, or butyl rubber for exterior surfaces including walls.

2.04 SEALANT COLORS

- A. Provide materials matching colors indicated or if no color is indicated, matching the color samples selected from those submitted to the Architect.
1. Sealant between walls and door, window, and louver frames to match adjacent wall color.

2.05 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- C. Joint Backing Rod: ASTM C1330 Class C, closed cell polyethylene cylindrical backer rod; oversized 30 to 50 percent larger than joint width, Green Rod by Nomaco Inc., Zebulon, NC, Backer Rod Mfg. Denver, CO or equal.
- D. Elastomeric Tubing Sealant Backing: ASTM D1056 - Flexible Cellular Materials - Sponge or Expanded Rubber.
- E. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.
- F. Filler: Mineral fiber board; ASTM C612, Class1, thickness same as joint, depth to fill void completely behind backer-up rod.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that substrate surfaces and joint openings are ready to receive Work.
- B. Verify that joint backing and release tapes are compatible with sealant.

3.02 PREPARATION

- A. Remove loose materials and foreign matter which might impair adhesion of sealant.
- B. Clean and prime joints in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions.
- D. Protect elements surrounding the Work of this Section from damage or disfiguration.
- E. At deep joints install filler material to fill space behind the back-up rod and position the rod at proper depth.

3.03 INSTALLATION

- A. Do not proceed with sealant Work until the sample joints specified in Part 1 of this Section have been prepared and accepted by the Architect.
- B. Install sealant in accordance with manufacturer's instructions and ASTM C1193.
- C. Apply sealant per ASTM C919 at gypsum board framed sound walls, side of runners in metal framing and miscellaneous openings and cutouts.
- D. Measure joint dimensions and size materials to achieve required 2:1 width/depth ratios.
- E. Install joint backing to achieve a neck dimension no greater than 1/3 of the joint width.
- F. Install bond breaker where joint backing is not used.
- G. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- H. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- I. Tool joints concave unless detailed otherwise.

3.04 CLEANING

- A. Clean adjacent soiled surfaces.

3.05 PROTECTION OF FINISHED WORK

- A. Protect finished installation under provisions of Division 01, General Requirements.
- B. Protect sealants until cured.

END OF SECTION

SECTION 10 14 19

DIMENSIONAL LETTERS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Fabricated metal letters exterior dimensional letters.

1.02 SUBMITTALS

- A. Product Data: Submit product data for specified products. Include material details for each sign specified.
- B. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including dimensions, anchorage, and accessories.
- C. Samples: Submit supplier's standard color chart for selection purposes and selected colors for verification purposes.
- D. Installation: Submit supplier's installation instructions.
- E. Closeout Submittals per Division 01.
- F. Submit operation and maintenance data for installed products, including precautions against harmful cleaning materials and methods.
- G. Submit warranty documents specified herein.

1.03 QUALITY ASSURANCE

- A. Supplier: Obtain all products in this section from a single supplier.
- B. Installer: Installation shall be performed by installer specialized and experienced in work similar to that required for this project.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Comply with requirements of Division 01.
 - 1. Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
 - 2. Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact.
 - 3. Store products protected from weather, temperature, and other harmful conditions as recommended by supplier.
 - 4. Handle products in accordance with manufacturer's instructions.

1.05 WARRANTY

- A. Project Warranty: Comply with requirements of Division 01.
- B. Manufacturer's Warranty: Submit manufacturer's standard warranty document executed by authorized company official.
 - 1. Warranty Period: One year from product ship date. Warranty specifically excludes letter mounting substrate.

PART 2 - PRODUCTS

2.01 SIGNAGE SYSTEMS

- A. Acceptable Manufacturers
 - 1. ASI-Modulex, Dallas, TX.
 - 2. A.R.K. Ramos, Oklahoma City, OK.
 - 3. Matthews International Corp.
 - 4. AD/S Design & Signs, Corona, CA.
 - 5. APCO Signs
- B. Or equal as approved in accordance with Division 01, General Requirements for substitutions.

2.02 FABRICATED METAL LETTERS - DIMENSIONAL LETTERS

- A. Graphic Material: ASI -Modulex, LF Series
 - 1. Face material: Aluminum.
 - 2. Return material: Aluminum.
- B. Fabricated Letter:
 - 1. Precision water-jet cut.
 - 2. Letterstyle: Helvetica, unless noted otherwise.
 - 3. Height: 12 inches.
 - 4. Depth: 3 inches for 8 - 24 high letters.
 - 5. Finish: Satin natural aluminum, chrome plated, face and sides.
- C. Mounting Method: Rail Mount, refer to Drawings.

2.03 FABRICATION - GENERAL

- A. General: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
- B. Design, fabricate, and install sign assemblies to prevent buckling, opening up of joints, and over-stressing of welds and fasteners.
- C. Mill joints to a tight, hairline fit. Form joints exposed to the weather to exclude water penetration.

- D. Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.
- E. Create signage to required sizes and layout. Comply with requirements indicated for design, dimensions, finish, color, and details of construction.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Site Verification of Conditions: Verify installation conditions previously established under other sections are acceptable for product installation in accordance with manufacturer's instructions.
- B. Scheduling of installation by Owner or it's representative implies that substrate and conditions are prepared and ready for product installation. Proceeding with installation implies installer's acceptance of substrate and conditions.

3.02 INSTALLATION

- A. Install product in accordance with supplier's instructions.
- B. Install product in locations indicated using mounting methods specified and free from distortion, warp, or defect adversely affecting appearance.
- C. Install product level, plumb, and at heights indicated per mounting specified.
- D. Install signs within the following tolerances and in accordance with manufacturer's recommendations:
- E. Exterior Signs: Within 1 inch vertically and horizontally of intended location.

3.03 CLEANING, PROTECTION, AND REPAIR

- A. Repair scratches and other damage which might have occurred during installation. Replace components where repairs were made but are still visible to the unaided eye from a distance of 10 feet.
- B. Remove temporary coverings and protection to adjacent work areas. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project in accordance with provisions in Division 01.

3.04 SIGN SCHEDULE

- A. Schedule: Refer to Drawings for sizes, locations, and layout of signage types, sign text copy, and graphics.

END OF SECTION

SECTION 10 29 00

DIAPER CHANGING STATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Diaper Changing Stations.
- B. Diaper Vendor.

1.02 REFERENCES

- A. ASTM A167 -Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip.
- B. ADA Accessibility Guidelines.

1.03 SUBMITTALS

- A. Product data describing size, finish details of function and attachment method.
- B. Manufacturer's installation instructions.

1.04 REGULATOR REQUIREMENTS

- A. Conform to ADA requirements for forward reach, side reach, knee clearances and height of counters.

1.05 SEQUENCE AND SCHEDULING.

- A. Coordinate work of this section with the placement of interior wall reinforcement to receive anchor attachments.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Products of following manufacturers form basis for design and quality intended.
 - 1. Koala Kare Corporation, St. Paul, MN. Product: Model KB 100.
 - 2. Brocar Products Inc., Cincinnati, OH.
 - 3. Safe-Strap Company Inc., Sommersworth, NH.
- B. Or equal as approved in accordance with Division 01, General Requirements for Substitutions.

2.02 MATERIALS

A. Diaper-Changing Station

1. Basis-of-Design: Koala Kare Corporation, Model 100E, High Density Polyethylene.
2. Description: Horizontal unit that opens by folding down from stored position and with child-protection strap.
 - a. Engineered to support a minimum of 250-lb (113-kg) static load when opened.
3. Mounting: Surface mounted, with unit projecting not more than 4 inches (100 mm) from wall when closed.
4. Operation: By pneumatic shock-absorbing mechanism.
5. Material and Finish: High-density polyethylene in manufacturer's standard colors.
6. Liner Dispenser: Built in.

B. Diaper-Pack Vendor

1. Basis-of-Design: Koala Kare Corporation, Model 105SS.
2. Mounting: Surface mounted
3. Minimum Capacity: 100 diaper packs.
4. Coin Operation: Coin slot preset for 1 U.S. dollar, adjustable up in 25-cent increments.
5. Material and Finish: Stainless steel, No. 4 finish (satin).

C. Material: High Density Polyethylene: FDA Approved to prohibit retention of moisture and odors.

D. Fasteners, screws and bolts: stainless steel or chrome, tamperproof.

2.03 FABRICATION

A. Shop assemble components and package complete with anchors and fittings.

B. Color: As selected by Architect from manufacturer's standard colors.

PART 3 - EXECUTION

3.01 INSPECTION

A. Verify that site conditions are ready to receive work and dimensions are as required by Manufacturer's product data submittals.

B. Beginning of installation means acceptance of existing conditions.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install plumb and level, securely and rigidly anchored to substrate.

END OF SECTION

SECTION 27 15 50

COMMUNICATIONS CABLING SPECIFICATIONS

PART 1 - GENERAL

1.1 General Introduction

- A. The work shall consist of the design, provision, termination, testing and documentation of a complete and fully functional structured high performance copper communications cabling system. The instructions in this section are specific to communications installations and should be read in conjunction with other contract documents as applicable.

1.2 QUALIFICATIONS

- A. The telephone and data cabling system installation work detailed in this section shall be carried out by a specialist installer company. The installer shall be certified by the system manufacturer (or manufacturers) in the installation and testing of the cabling system.
- B. The installer shall have a proven track record in the field of telephone and data (high performance "Category 6" copper) cabling system installation. The installer shall have completed at least three previous installations of comparable size, complexity and manpower within the last three years. Each installation shall utilize components, installation practices and testing procedure equivalent to those specified in this document.
- C. The Installer shall hold a valid State Contractors License for the duration of the project. The Installer shall be responsible for obtaining permits and other requirements for performing work on this project. All costs associated with obtaining permits and other documentation shall be included in the bid sum for the project.

1.3 DEFINITIONS

- A. Throughout this specification, the following definitions will apply
 1. Provide: Supply, furnish, deliver, install, pull, fix, dress, terminate, label, test, ground and document the components as per these specifications.
 2. MDF (Main Distribution Frame) Room, main telecommunications closet for the building to house centralized communications PBX and/ or computer equipment (such as Core Switches and Servers).
 3. Horizontal Cables: Cables linking the MDF Room to each workstation outlet.
 4. Station Cables: Cables linking workstation outlet to active equipment.

5. Client: Riverside County EDA.
6. Bidder: A company invited to bid for the works
7. Installer/Contractor: The Company installing the equipment as defined in this specification

1.4 MANUFACTURER'S COMPLETE SYSTEMS

- A. The cabling system specified in this document shall be a Panduit hardware and Belden cable end-to-end solution (or approved equal) except where stated otherwise complying with this Voice and Data Cabling Standard.

1.5 JOB CONDITIONS

- A. Prior to bidding, visit the site and determine all existing conditions affecting work. The Bidder shall examine all drawings and specifications to familiarize themselves with the type of construction to be used, and the nature and extent of work provided by other trades.
- B. Verify dimensions and the correct location of hardware before proceeding with the installation of hardware, cabling and/or connections.
- C. Notify the Owners' Representative in writing immediately on discovery of dimensional discrepancies and other conditions detrimental to proper performance of the Work

1.6 PERSONNEL

- A. The personnel who will be employed on the contract shall be suitably trained in the management of a project of this nature and/or certified in the installation and maintenance of products of the type being provided so as to be able to carry out all work in a competent manner.
- B. The Installer shall provide a site manager responsible for all site-related issues. This individual shall be the single point of contact for the project team and shall carry a mobile phone so they can be contacted during the working hours of the project.
- C. The Installer shall be certified by the component manufacturer(s) in the installation and testing of the cabling system and shall be able to provide a manufacturers' extended performance warranty for the 'end to end' cabling system.

1.7 LABELING AND NUMBERING SCHEME

- A. Labeling of the cabling system shall be in accordance with EIA/TIA 606 for the Administration of the Telecommunications Infrastructure for Commercial Buildings.

1.8 WARRANTY

- A. Installer to provide a warranty for one year from Notice of Completion on all materials and workmanship installed or supplied as part of the cabling system.
- B. The Installer shall also supply an extended performance warranty, as offered by the components' manufacturer(s).

1.9 QUALITY

- A. The Contractor shall be responsible for the complete provision and installation of all components as specified herein. The Contractor shall provide all tools, equipment, fixtures, appliances, ancillary piece parts and hardware as necessary to complete the assembly and installation as required. The Owner's Representative may conduct scheduled or unscheduled inspections of the Contractor's work at anytime during construction. All work included in the scope assigned to the contractor that is associated with this project shall be accomplished in a workmanlike manner, installed and assembled plumb, level and square. The product shall be delivered to the Owner finished, complete, and ready to operate according to the manufacturer's specifications
- B. All installation work shall be completed to the standard of the samples approved by the Owners Representative during the submittal process. Any products not installed to the quality detailed in these specifications and approved in the submittal process shall be reworked by the Installer to the satisfaction of the Owner's Representative at no additional cost to the Owner.

1.10 STANDARDS

- A. All materials provided by the Installer shall meet the requirements of the following where applicable:
 - 1. National Electrical Manufacturer's Association (NEMA)
 - 2. American National Standards Institute (ANSI)
 - 3. Underwriters Laboratories, Inc. (UL)
 - 4. ETL
- B. All products, services and documentation provided by the Installer shall meet the requirements of the following where applicable:
 - 1. California Electric Code (CEC)
 - 2. Relevant State Electric and Fire Codes
 - 3. ANSI/EIA/TIA 568-B.2 Commercial Building Telecommunications Wiring Standard
 - 4. ANSI/EIA/TIA 569 Commercial Building Standard for Telecommunications Pathways and Spaces
 - 5. ANSI/EIA/TIA 606 The Administration Standard for the Telecommunications Infrastructure of Commercial Buildings

6. ANSI/EIA/TIA 607 Commercial Building Grounding and Bonding Requirements for Telecommunications - August 1994
7. Building Industry Consulting Service International (BICSI) publications
 - a. Telecommunications Distribution Methods Manual
 - b. Network Design Reference Manual
 - c. Telecommunications Cabling Installation Manual
 - d. Customer Owned Outside Plant Design Manual
8. Manufacturer's recommendations and installation guidelines

C. All publications referred to in this document shall be the latest edition

1.11 SUBMITTALS

A. All submittals shall be sent per Division 1 requirements. Each submittal should be provided no later than six weeks prior to the work associated with that submittal to allow time for submittal review.

B. Project References:

1. Submit for approval, references for a minimum of three similar projects successfully undertaken and completed within the last three years. These projects should be a similar scale, complexity and have similar time scales as this project.
2. Provide project name and address, client contact name and telephone number and construction manager name and telephone number. Provide a brief description of each project indicating types of system installed, quantities and configurations of outlets and project time scales.
3. At least two of the references shall be located in Southern California and shall be available for the Owners Representative and other members of the Design Team to visit and inspect the installation, should, in the opinion of the Owners Representative, this be necessary.
4. These references are intended to show that the Installer has successfully completed similar projects. Failure to produce satisfactory references may result in the bid being deemed non-compliant

C. Personnel Training:

1. Submit for approval records regarding the management, installation and testing personnel. These records shall include resumes, training certificates, previous work experience details (especially on reference projects) and other relevant information.
2. Submit records to confirm that the personnel who will be employed in an installation capacity are suitably trained in the installation and maintenance of equipment and systems of the type being provided.
3. Submit records to confirm that the personnel that will be responsible for testing the system are suitably trained in the operation of the test equipment being used in this project.

4. These records are required to ensure that the Installer is able to carry out all work in a competent manner. Failure to produce satisfactory training documentation may result in the bid being deemed non-compliant.

D. Cabling Diagram

1. Submit, for approval, a complete cabling diagram. The diagram shall be based on the single line drawing included in the Construction Documents. It shall be updated to show qualities and part numbers for all components including patch panels, cable, conduit, cabinets and equipment racks, and all other associated components.

E. Test Equipment

1. Submit, for approval, details of each item of test equipment to be used to test the optical fiber and copper components. Include patch cords and other specialized components.

F. Product Literature/Data Sheets:

1. Submit for approval manufacturer's product data sheets for each component of the telephone and data cabling systems. Certify that the data sheets depict the components to be provided by the Installer to make up the complete system as described in this specification.

G. Component Samples and Mock-ups

1. Provide one full size installation sample mock-up of each of the following components for approval. All samples are to be fully labeled as per these specifications. Samples are to be delivered to the Construction Manager's office on site prior to installation.
2. All sample mock-ups are intended to represent the components that are to be installed as part of this project; therefore, they are to be provided with all associated components and labeling necessary to make up a complete mock-up. Installation shall not proceed until the Owner's Representative has approved the samples. Once samples and other documents have been submitted, inspected by the Owners' Representative and approved, they shall be retained. The samples will be used as the standards by which the quality of work on the project by the Installer shall be judged. Any installation that does not meet this standard shall be replaced or re-worked as approved by the Owners' Representative, at no cost to the project.
3. Outlet Samples.
 - a. Provide a mock-up of each communications outlet, as listed below. The sample is intended to represent a typical communications outlet and shall include all associated parts to make a complete sample. Provide bushings and strain relief for the horizontal cable jacket, demonstrating how the cable shall be secured. Label the outlet and each connector as detailed in this specification

- b. Provide samples of the following outlet configurations:
 - 1) Wall-mounted outlet (Quad) - provide the communications outlet, all terminations and a 36" length of the relevant cable(s).
 - 2) Raceway outlet – provide faceplate, bezel, outlets, cable and labeling only.

- H. As-Built Documentation (required on completion of the work)
 - 1. Following completion of the installation, submit the following record drawings, documentation and testing for approval.
 - 2. As-Built Drawings
 - a. As-built drawings showing locations of telephone and data outlets, cable routes, data rack locations, telephone termination board locations and station identification.
 - 3. Final Test Results
 - a. Test results for each cable indicating tests performed, results obtained and values measured.
 - 4. All documentation and drawings shall be provided in an electronic format (AutoCAD for drawings, MS Excel for schedule, etc) and supplied on CD-ROM

PART 2 - PRODUCTS

2.1 HORIZONTAL AND LINK COPPER CABLING

- A. Provide Belden DataTwist Category 6. Each cable shall have four pairs of unshielded twisted-pair solid copper conductors. The cable shall be plenum-rated (CMP). Each cable shall meet or exceed the performance specifications in this document when installed as part of the end to end cabling system described in this specification.
- B. The high performance copper cabling system shall meet or exceed the performance specifications for Category 6 cabling as detailed in EIA/TIA 568-B.2. This covers all Category 6 components installed as a part of the installation.

2.2 RACK MOUNT TELEPHONE SYSTEM PATCH PANELS

- A. Category 6 Patch Panels shall be used for voice communication. Provide Panduit (DP245E88110U) 24 port patch panels for terminating the extended voice riser from the wall mounted Siemons 50 Pair (S66-M1-50) split 66 block in the BDF to the equipment rack row of each IDF. Provide 2U of cable management for every 2U of patch panel. The patch panel and components shall conform to the following specification:

1. Must be EIA/TIA 568-B.2 compliant
2. Suitable for mounting in standard EIA 19" racks.
3. Strain relief for each cable terminated on the connector.
4. Space for labeling of each individual connector.
5. Shall allow any individual cable to be terminated or otherwise handled without disturbing other cables

- B. Patch Management. Provide Chatsworth (30130-719), horizontal cable management frame between Telephone Termination Frames. The patch management shall consist of distribution rings to provide vertical paths for patch cords and jumper cables running between adjacent frames.

2.3 WORK AREA CONNECTORS

- A. Category 6 Jacks. Provide minimum of (1) Category 6 Panduit RJ 45 inserts (Mini-Com TX-6) (minimum) for each Standard communication outlet at each Standard work location unless specifically noted otherwise on the drawings. Provide (4) Category 6 RJ 45 inserts (Mini-Com TX-6) for each Quad communication outlet at each Quad work location. Provide (1) Category 6 Panduit RJ 45 insert (Mini-Com TX-6) each Single Wall communication outlet at each single work location. Each connector shall meet or exceed the ANSI/EIA/TIA 568B.2 Building Telecommunications Wiring Standard performance specifications in this document when installed as part of the end-to-end cabling system described in this specification. The pin outs for the jack shall conform to the T568B wiring scheme.

2.4 STATION PATCH PANELS

- A. Category 6 Patch Panels. Provide Panduit 48 port frame patch panels (CPP48WBL) for terminating the end of the communication outlet Category 6 cable. Provide 2U of cable management for every 2U of patch panel. The patch panel and components shall conform to the following specification:
1. Must be EIA/TIA 568-B.2 compliant
 2. Suitable for mounting in standard EIA 19" racks.
 3. Strain relief for each cable terminated on the connector.
 4. Space for labeling of each individual connector.
 5. Shall allow any individual cable to be terminated or otherwise handled without disturbing other cables.

2.5 PATCH CORDS AND STATION CABLES

- A. The patch cords and station cables listed below are to be passed to the client on completion of the project. Each cord is to have a manufacturer's certificate of conformance and shall be in its original, unopened packaging.

- B. Provide high performance copper patch cords / station cables to match quantity of outlets indicated on plans +25% spare. These shall be sourced from the same manufacturer as the connectors provided as a part of this project. Each cord shall meet or exceed the performance specifications in this document when installed as part of the end to end cabling system described in this specification.

2.6 WORK AREA FACEPLATES

- A. Single Gang Wall-mounted Faceplate. Provide a Panduit 4 port faceplate (CFPL4EL) at each standard or quad work location to house the RJ-45 jacks. The faceplate shall be a single gang, low profile wall-mounted flush faceplate. The faceplate shall fit over a standard NEMA electrical outlet box fitted with a double gang plaster ring cover. Use a Panduit dust cover (CMBEI-X) over any unused port of the faceplate.
- B. Wall phone Faceplate. Provide a Panduit wall-mounted flush faceplate (KWP5E), or equivalent, to house a single work area jack. The faceplate shall fit over a standard NEMA electrical outlet box fitted with a single gang plaster ring cover and shall be stainless steel. The faceplate shall be capable of having a wall-mounted telephone fitted directly over it.
- C. Furniture Faceplate. Provide a Panduit 4 port furniture faceplate (CFFPL4BL) at each standard or quad furniture work location to house the RJ-45 jacks.

2.7 LABELS

- A. Provide labels for, connectors, cables, outlets, termination frames and patch panels.
- B. The lettering on each label shall be as large as is practicable. All labels shall be machine produced. Hand-written labels will not be acceptable.
- C. A standard relative orientation shall be adopted for all labels unless otherwise specified.
- D. Labels shall be robust, durable, shall resist abrasion and shall be UV inhibiting, permanent and indelible. Labels shall be proof to 140 degrees Fahrenheit.
- E. All labels shall be readily visible and shall be fixed so that they remain in a visible position wherever practical.
- F. Labels shall carry the full complement of characters to designate the unique identification for the item that they identify.
- G. Cable Labels:
 - 1. Provide self-laminating wrap labels for cables with less than 1/2" diameter. The labels shall permanently affix to each cable once they have been installed. Any labels that split, partially split or otherwise damaged shall be replaced.

2. Provide laminated, cable-tied labels for innerduct and cables of ½" or greater diameter. The labels shall be water-proof and shall be of sufficient size to include all identification letters or numbers. The label shall be punched with holes to allow two cable ties (one at each end) to be used to secure the label to the cable.
3. Horizontal / Link Cabling: Label each cable so that the label is within 8" of the end of the cable at the patch frame end and within 6" of the end of the cable at the outlet end.

H. Outlet and Patch Panel Labels

1. Provide labels for each outlet and patch panel. The patch panel and faceplate labels are to be black letters on white background.
 - a. Outlet Label: Provide labels to identify the faceplate.
 - b. Patch Panel: Provide labels to identify each connector.

I. Telephone System Termination Frames:

1. Termination Frame Labels. Provide a full complement of pre-printed cardboard patch frame labels, allowing each pair of each telephone system horizontal and feeder cable to be clearly identified. Provide a jumpering schedule at the Telephone Backboard that identifies which feeder telephone pairs are jumpered to which horizontal cable pairs served by that backboard.

2.8 EQUIPMENT RACKS

- A. Provide CPI, Ortronics, Panduit where a rack is shown on the Drawings. The rack shall conform to the following specification:
 1. The rack shall consist of a modular EIA 19" open mounting frame, with a minimum of 84" space for equipment in the vertical plane.
 2. Provide all mounting components and accessories to securely fix racks to floor and supporting walls. Provide appropriate seismic transverse and longitudinal bracing per any local codes and the current NUSIG (National Uniform Seismic Installation Guidelines). Provide overhead ladder rack fixed to the top of the rack and running from the top of the rack to the telephone backboard where the horizontal cables run, as shown on the drawings. Provide cable bend management fixtures to maintain the proper bend radius as the cables drop into the rack. Do not allow cables to be unsupported as they run from conduit or cable tray to equipment cabinets.
 3. Each rack shall have a load-carrying capacity of 1000 lbs. (450 kg.).
 4. Provide (1) Chatsworth (30130-719) 2U high horizontal patch management between each patch panel of each rack. Provide (1) Chatsworth (30130-719) 2U high horizontal patch management in the top of the rack. Provide Chatsworth (30093-703) 6' x 10" side mounted vertical cable management on both sides of the rack.
 5. Provide strain relief and cable management at the rear of each rack to ensure tidy routing of all horizontal cables.

6. The rack to have a minimum of eight power sockets mounted on a strip at the rear of the rack. The power strip shall be Tripp Lite, Damac, . The power receptacles on the connector strip shall be NEMA 5-20R compatible. The plug shall be NEMA L 5-20P compatible.
7. The rack shall be manufactured from extruded aluminum.

2.9 COMMUNICATION DISTRIBUTION CABLE TRAY

A. Provide CPI Ladder Rack or equal

1. Ladder Rack – 18" in size - shall be provided in the MDF Room to route cable from sleeves, risers, ducts and cable trays to termination fields within equipment racks or mounted on walls. Cable Tray shall be B-Line Series 14-A-06-18-lengths indicated on drawings or approved equal.
2. Ladder Rack shall be mounted vertically on walls to support riser cables from floor to ceiling as they passes between floors.
3. Use uni-strut channel for the trapeze support and a minimum of 3/8 in. threaded rod. Appropriate threaded rod anchors are to be installed. Trapeze supports are recommended to be placed every 8 ft. and at cable tray intersections and terminations.
4. Seismic bracing for the Cable Tray as required by Code, shall be installed along Cable Tray routes. Coordination of lateral and oblique bracing locations must be effected with the other disciplines whose equipment and systems share the area above the suspended ceiling.

B. Cable Tray Bonding and Grounding Requirements

1. Cable Tray shall be bonded to the Telecommunications Grounding Bus Bar in the Technology Room(s) on the same floor. All non-contiguous segments of the Cable Tray shall be bonded together using 6 AWG stranded copper wire, with crimp-on lugs bolted to each segment of the Cable Tray to ensure electrical continuity throughout the length of the Cable Tray system.

C. Cable Tray Firestopping Requirements

1. Cable Trays that penetrate fire-rated walls shall be equipped with wall penetration sleeves at each location, and have appropriate firestopping materials installed after the placement of cable has been completed.

2.10 SUPPORTS FOR HORIZONTAL CABLE

- ### A. Provide J-Hooks to support communications cables running in the ceiling void in locations where cable tray and/or conduit is not provided. J-Hooks to be B-Line, Mono Systems 'The Hook', Caddy 'Cable Cat'

PART 3 - EXECUTION

3.1 HORIZONTAL CABLING AND COMPONENTS

A. Horizontal Cabling

1. Provide minimum of one four-pair high performance plenum-rated horizontal cable running from each work area connector to the patch panels located in the MDF Room serving that outlet. Terminate all four pairs of each end of each cable with an RJ45 communications connector using the EIA/TIA 568B termination scheme. The high performance cables shall not exceed 90 meters.

B. Work Area Outlets

1. Standard Communication Outlet. Each standard work area outlet will be a wall-mounted flush modular faceplate configured with a minimum of (1) RJ45 connectors, unless otherwise noted on drawings. The faceplate shall fit over a deep NEMA electrical outlet box fitted with a single gang plaster ring cover and shall match the electrical faceplate color. Any unused faceplate opening shall contain a matching blanking insert.
2. Duplex Communication Outlet. Each standard work area outlet will be a wall-mounted flush modular faceplate configured with (1) RJ45 connector, unless otherwise noted. The faceplate shall fit over a deep NEMA electrical outlet box fitted with a single gang plaster ring cover and shall match the electrical faceplate color. Any unused faceplate opening shall contain a matching blanking insert.
3. Quad Communication Outlet. Each standard work area outlet will be a wall-mounted flush modular faceplate configured with (4) RJ45 connectors, unless otherwise noted. The faceplate shall fit over a deep NEMA electrical outlet box fitted with a single gang plaster ring cover and shall match the electrical faceplate color. Any unused faceplate opening shall contain a matching blanking insert.
4. Single Wall-phone Faceplate. Each wall-phone outlet will be a wall-mounted flush modular faceplate to house a single (1) RJ45 connector. The faceplate shall fit over a deep NEMA electrical outlet box fitted with a single gang plaster ring cover and be capable of having a wall-mounted telephone fitted directly over it.
5. Furniture / Raceway Faceplate. Each Furniture outlet will be a flush-mounted modular faceplate to house RJ45 work area jacks as shown on the drawings. The faceplate shall fit over a modular raceway.

3.2 TECHNOLOGY INFRASTRUCTURE

A. Data system equipment cabinets and racks

1. Provide equipment rack(s), as shown on the drawings or as needed to terminate all indicated cabling.

2. Attach the power strip to the cabinet/rack. Ensure that the power strips are connecting to the cabinets/racks in such a way that the structural integrity of the cabinets/racks is not compromised. Connect the cabinet power strip to an appropriate power receptacle.
3. Fix each cabinet and rack to the floor and supporting walls to provide stability and prevent movement of the cabinet or rack. Fix adjacent racks and cabinets together.
4. Install the appropriate seismic transverse and longitudinal bracing per any local codes and the current NUSIG (National Uniform Seismic Installation Guidelines).

B. Conduit, Ladder Rack And J-Hook Installation

1. Where shown on the drawings, provide solid metal conduit to protect cable runs. Securely fix this conduit to structural elements at regular intervals. Provide couplings, end pieces, grommets and associated components to make up a complete conduit run. All conduit installation shall be done in accordance with the relevant CEC regulations. No L-bends (condulets) are to be installed; any bends in the conduit runs are to be provided using sweeps.
2. Ladder rack. Where shown on the drawings, provide aluminum metal ladder rack to support equipment racks and route communications cabling.
3. J-Hooks. Where conduit or cable tray is not provided to support cable runs, provide JHooks fastened to the structural slab at 48" centers. J-Hooks shall not be attached to beams, ceiling tile tee grid or wire hangers used to support the ceiling grid. J-Hooks shall be attached to the slab using anchors and 1/4" rod used exclusively for supporting J-Hooks. J-Hooks can be fixed to stud walls provided the cable load is no more than 10lbs per stud.
4. Install the appropriate seismic transverse and longitudinal bracing per any local codes and the current NUSIG (National Uniform Seismic Installation Guidelines).

3.3 INSTALLATION PRACTICE

- A. Provide bushings, grommets and strain-relief for cables terminating at wall-mounted outlets and patch panels to ensure durable and robust connections. The bushings and grommets are intended to protect the cables from any sharp edges that present a risk to the cables. Ensure that all sharp edges are covered to protect the cables from damage.
- B. No cables shall be installed in a fashion that contravenes either the minimum installed or the minimum under-load bend radius of the cable.
- C. No cable is to be pulled through a conduit "L-bend" (condulets). In existing routes with Lbends, the cables are to be pulled to the L-Bend. The cable is then to be carefully pulled through the remainder of the conduit run.
- D. Install all cables in complete runs from outlet or patch panel to patch panel. In-line joints, splices, distribution points or other intermediate connections are not permitted unless specifically called out by this specification.

- E. At no point shall the communications cables be tied to power cables or other building services or their supports, or run in the same ducts, raceways, conduits or connection boxes as power cabling.
- F. Use plenum-rated tie wraps in plenum spaces.
- G. Reinstate all pull-wires in conduits and ducts after use to facilitate future addition of cables.
- H. Cables shall not be held so tightly with cable ties that the cable jackets are indented by the cable ties.
- I. Individually and properly ground all equipment cabinets, racks and ladder rack. Ground all metallic sheath communications cables entering the building per manufacturer specifications and CEC 770-33, 800-33 and 800-40.
- J. Ensure that all waste materials are disposed of in a safe manner. Pay particular attention to waste materials produced during the termination of optical fiber cabling. Ensure that all used components and fiber cut-offs are collected in purpose-made containers and disposed of properly.
- K. Replace all moisture and fire barrier material in ducts, conduits and other penetrations disturbed during installation of communications cabling. Install barrier material in all fire-rated penetrations that have cabling running through them. The barrier material shall be installed so the final penetration has the same fire rating as the original wall/floor.
- L. Provide expansion plugs in all ducts/conduits entering the building. Seal all unused ducts/conduits with plugs that allow the pull-string to be tied off on the inside.
- M. Use purpose-built pulling grips during cable installation. Do not pull cables by attaching pull wires to cable jackets, elements or reinforcement. Use strain gauges or equivalent measures to ensure that the maximum tensile load rating of the cables is not exceeded during installation.
- N. Provide J-hooks and cable hangers as necessary to support cables running in the ceiling void. J-hooks shall be appropriately sized to allow a minimum of 50% spare capacity for future cable installation. J-hooks shall be at least 1" wide, and fitted at no more than 48" centers.
- O. The number of cables in each conduit shall be controlled to allow for future cable installation and to stay within the manufacturers maximum allowable cable pulling tension. Conduit fill ratios shall not exceed the current requirements of the CEC.
- P. The maximum run length of each horizontal cable shall not exceed the 90m (~295ft) limit specified by EIA/TIA 568-B.2. Notify the Owner's Representative immediately if, due to on-site conditions or other factors, a horizontal cable run length exceeds this distance.

- Q. Provide Velcro hook and loop ties to secure cabling running in the Telecom Closets. Provide straps at 3' intervals. On completion of installation, neatly run and re-tie all cable bundles in the Closet.
- R. All cable bundles exiting floor or wall penetrations and running into furniture or casework shall be wrapped in spiral wrap or split-loom tubing to protect the cabling and provide a neat installation.
- S. Labels shall be machine generated, not hand written, and placed within 12 inches of each end of each cable.

3.4 UNUSED COMPONENTS

- A. Any components purchased in accordance with these specifications and unused shall be documented and passed to the owner on completion of the project.

3.5 TESTING

A. General Instructions

1. The testing is to show beyond reasonable doubt that there are no errors, damaged or incorrectly installed components, that the installation is correctly labeled and that all the installed components meet or exceed the criteria detailed in these specifications. Any test that does not show that a component is satisfactorily installed, as per these specifications, shall be repeated. If a test procedure needs to be modified to satisfactorily test some components, the modification shall be submitted for approval of the Owner's Representative, prior to the tests being conducted.
2. Following data cable installation, including labeling and termination at both ends, undertake and record tests to ensure that the cabling system will perform satisfactorily in service. In addition to the tests detailed in this specification, the Installer shall carry out any additional tests that the Installer deems necessary to ensure the satisfactory operation of the telephone and data systems. The costs of these additional tests shall be borne by the Installer.
3. All outlets, cables, patch panels and associated components shall be fully assembled and labeled prior to testing. Any testing performed on incomplete systems shall be redone on completion of the work.
4. Provide the Owners' Representative with the opportunity to witness all testing. On reasonable request, the installer shall demonstrate that the test procedure competently identifies the fault conditions being tested for.
5. Complete all of the tests identified in these specifications.
6. Notify the Owners' Representative ten working days before the date of commencement of the cable tests. Provide details in writing, on that advance date, of proposed tests, the test schedule, equipment to be used, its certification and calibration and the names and qualifications of test personnel.
7. The Owner and Owners Representative shall be invited, to the first instance of each type of test conducted. In the event of a number of tests being conducted

by the Installer prior to this first inspection, the Owner's Representative reserves the right to reject these tests as non-compliant and to require them to be repeated at the Installer's cost.

8. Personnel shall be competent in and qualified by experience or training for comprehensive TDR and OTDR operation and troubleshooting, for both copper and optical fiber testing.
9. Include the cost of obtaining, calibrating and maintaining test equipment and the cost of carrying out and recording the tests detailed in this specification, including labor costs, in the bid sum. No extra costs will be entertained.
10. Ensure that all test equipment is in calibration before delivery to site and throughout the testing period. The Installer shall be responsible for ensuring that any necessary tests and rework to maintain equipment's calibration status is carried out any tests performed on uncalibrated test equipment shall be repeated at the Installer's cost.
11. The test documentation shall be available for inspection by the Owners' Representative during the installation period and copies shall be passed to the Owners' Representative within five working days of completion of tests on cables in each area. The Installer shall retain a copy to aid preparation of as-built information.
12. Failures detected during the testing shall be noted on the test results schedule, rectified and re-tested. On the fault being rectified, this shall also be noted. These notes shall not be deleted or obliterated.
13. Rectification of all damaged cables shall include replacing damaged cables with new cables in complete runs, replacing damaged connectors or remaking poor terminations. In-line cable joints, splices or distribution points will not be acceptable except where specified in this document. All damaged cables shall be removed from site.
14. If on submittal of the As-Built documentation there are any missing test results or incorrectly named files, the test shall be repeated at the Installer's expense.

B. Category 6 Cabling

1. Test each Category 6 Cable and it's associated connectors. Carry out the following tests on every pair of every Category 6 cable:
 - a. Conductor Continuity
 - b. Conductor Separation
 - c. Conductor Polarity
 - d. Pair Mapping
 - e. NEXT, ELFEXT, ACR and Attenuation
 - f. Power Sum NEXT, Power Sum ACR and Power Sum ELFEXT
 - g. Structural Return Loss and Delay Skew
 - h. Cable length

C. Work Area Faceplates and Blanking Plates

1. Carry out a visual inspection of the faceplates and blanking plates. Replace all damaged components.
2. Ensure that all faceplate labels are installed correctly.

END OF SECTION

SECTION 32 12 16
ASPHALTIC CONCRETE PAVING

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes
 - 1. Asphaltic concrete paving and surface sealer
 - 2. Sub-base preparation
 - 3. Aggregate base course
 - 4. Concrete parking bumpers
 - 5. Slurry sealing
 - 6. Patching and Repair of asphaltic concrete paving
- B. Related Section
 - 1. Section 32 17 23, Pavement Marking

1.02 REFERENCES

- A. ASTM - American Society for Testing and Materials
 - 1. ASTM D977 - Standard Specification for Emulsified Asphalt
 - 2. ASTM D1557 - Laboratory Compaction Characteristics of Soil Using Modified Effort
 - 3. ASTM D2026 - Standard Specification for Cutback Asphalt
 - 4. ASTM D2397 - Standard Specification for Cationic Emulsified Asphalt
 - 5. ASTM D3910 - Design, Testing, and Construction of Slurry Seal
- B. AASHTO - American Association of State Highways and Transportation Officials
 - 1. AASHTO MP 1 – Performance Graded Asphalt Binders
- C. CSS - Caltrans Standard Specifications
- D. ISSA - International Slurry Seal Association
 - 1. ISSA A105 - Recommended Performance Guidelines for Emulsified Asphalt Slurry Seal
- E. SCAQMD – South Coast Air Quality Management District
 - 1. SCAQMD-1108 – SCAQMD Rule 1108, Cutback Asphalt
- F. SSPWC - Standard Specifications for Public Works Construction

1.03 QUALITY ASSURANCE

- A. Perform Work in accordance with Sections 200, 203 and 302, SSPWC.
- B. Obtain materials from same source throughout, using batch plant method for proportioning and mixing.

1.04 SUBMITTALS

- A. Product data, mix design per Section 01 30 00, Administrative Requirements.
- B. Special Environmental Requirements Product Form, found in Appendix A of Section 01 35 43 Special Environmental Requirements. Provide the following information for aggregate for base course:
 - 1. Recycled Content.
 - 2. Local/Regional Materials.
- C. Special Environmental Requirements Product Form, found in Appendix A of Section 01 35 43 Special Environmental Requirements. Provide the following information for asphalt
 - 1. Local/Regional Materials.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Do not place asphalt when base surface temperature is less than 40 degrees F or surface is wet or frozen.
- B. Conform to AQMD, Local Regulations.

1.06 SOILS INFORMATION

- A. Geotechnical Investigation has been prepared under direction of Owner. Investigation is hereby referenced as information for Work of this Section. Architect assumes no responsibility for conclusions Contractor may draw, from information provided. Contract Documents take precedence over recommendations that may be contained in investigation and Contractor must obtain approval for deviations from Contract Documents. Copy of investigation is available at Architect's office.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Acceptance at site.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Asphalt Binder: SSPWC 203-1 or AASHTO MP1, Performance Grade 64-16 Mountain regions, and shall conform to the testing requirements of Table 203-1.2 (B), Section 203 SSPWC.
- B. Asphalt Aggregate: Uniformly graded in accordance with Section 203-6.4, SSPWC.
- C. Crushed Aggregate Base (CAB): 3/4 inch maximum grading, crushed rock and rock dust conforming to requirements of Section 200-1.2, SSPWC, with 3/8 inch sieve requirement waived, or Class 2 Aggregate Base as defined in Section 26, CSS. [Crushed Miscellaneous Base (CMB): Base shall be 100% recycled content. Graded per Section 200-2.4.2, SSPWC

2.02 ACCESSORIES

- A. Primer: ASTM D2026, cutback type, slow curing, Grade SC 250. Grade SC-70 may be used when approved by Architect.
- B. Tack Coat: ASTM D977, slow setting emulsified asphalt SS-1h. ASTM D2397 for CQS-1H, slurry Seal.
- C. Seal Coat: Conform to Section 203-9, SSPWC.
 - 1. GUARDTOP by Industrial Asphalt/Vulcan Material Co., Inc., Irwindale, CA.
 - 2. SATIN SEAL by Blue Diamond Co., Long Beach, CA.
 - 3. Or equal, as approved in accordance with Division 01, General Requirements for Substitutions.
- D. Parking Bumpers:
 - 1. Precast concrete type, 2500 psi, bars No. 3 minimum size. Bars shall extend to within 1-1/2 inches of ends of bumpers. Minimum bumper size: 6 inches high, 8 inches wide, 5 feet long unless otherwise indicated on drawings.
- E. Soil Sterilizer: Spike 80DF. Non-selective weed and grass killer, by Dow-AgroSciences, Indianapolis, IN, EPA Reg. No. 62719-107, or equal, as approved in accordance with Division 01, General Requirements for Substitutions.
 - 1. Active Ingredients:

a. Tebuthiuron	80 percent
b. Inert Ingredients	20 percent
Total	100 Percent
- F. Headers: Foundation grade redwood, minimum 2 x 4 inch. Stakes shall be minimum 2 x 3 inch in accordance with Section 302-5.5 SSPWC.
- G. Raised Pavement Markers: per Section 32 17 23.

2.03 ASPHALT PAVING MIX

- A. Use dry material to avoid foaming. Mix uniformly.
- B. Mix: Section 203-6.4 SSPWC, 1/2 inch maximum aggregate size, medium gradation curve, as required by outside temperatures at time of laying.
 - 1. Single Course: C2 Dense Medium aggregate, Performance Grade 64-16 asphalt.
 - a. Areas where hand spreading is required: Use 3/8 inch mix.
- C. Mix: Section 203-6.4 SSPWC, 3/4 inch asphalt base course, 1/2 inch asphalt surface course aggregate size.
 - 1. Asphalt Base Course: B Dense Medium Coarse, Performance Grade 64-16 asphalt.
 - 2. Asphalt Surface Course: C2 Dense Medium, Performance Grade 64-16 asphalt.
 - a. Areas where hand spreading is required: Use 3/8 inch mix.

- D. [Recycled Asphalt Concrete (RAC), C2-PG 64-16 RAC: Reclaimed Asphalt Pavement (RAP) maximum 15% unless noted otherwise on drawings, aggregate and asphalt per SSPWC Section 203-7.
- E. Slurry Mix Design: ISSA Type II (General), 1/4" thick.

PART 3 - EXECUTION

3.01 SUB-GRADE

- A. Bring areas to be surfaced to required subgrades by cutting and filling with suitable equipment.
- B. Scarify subgrade to minimum depth of 6 inches. Bring to optimum moisture content and compact to minimum 90 percent density in accordance with ASTM D1557 by rolling with power roller. Provide hard, even surface to receive subsequent base and paving.
- C. Finish subgrade to required grades with allowance for compression and for thickness of base course and finish paving thickness.

3.02 SOIL STERILIZATION

- A. After subgrade has been compacted and approved by Geotechnical Engineer, treat areas to be paved with specified soil sterilizer. Conform to following:
 - 1. Apply 7.5 lbs. of solution per acre for each 15 gallons of water, spray apply per manufacturer's instructions.
- B. Exercise caution during storage of material and during application. Prevent injury to humans, animal life, adjacent plant life and property. Keep soil sterilization materials minimum three feet from tree wells or any plant life.
- C. Legally dispose of containers.

3.03 BASE COURSE

- A. Place and compact aggregate base upon finished subgrade in conformance with Section 301-2 SSPWC. Compaction: 95 percent.
- B. Thickness of Base After Compaction: As indicated on Drawings but not less than 4 inches if not indicated.

3.04 PREPARATION - PRIMER AND TACK COATS

- A. Apply primer coat on base course surfaces in conformance with Section 302-5.3, SSPWC, at rate of 0.10 to 0.25 gallons per sq. yd. Allow to cure prior to application of asphalt course.
- B. Apply tack coat to contact surfaces of cold joints, curbs, gutters, manholes and adjacent materials, and over existing asphalt surfaces in conformance with Section 302-5.4, SSPWC.
- C. Coat surfaces of catch basin frames with oil to prevent bond with asphalt pavement. Do not tack coat these surfaces.

- 3.05 PLACING ASPHALT PAVEMENT - SINGLE COURSE **** PLACING ASPHALT PAVEMENT - DOUBLE COURSE BONDED AGGREGATE (3/4" MIX) ASPHALT BASE COURSE OVER CLASS 2 BASE. REFER TO CIVIL SPECIFICATIONS FOR THIS ADDITIONAL REQUIREMENT.****
- A. Install redwood headers.
 - B. Place asphalt in conformance with Section 302-5, SSPWC. Conform to temperature maximums and minimums specified therein. Materials shall not be applied which have cooled below lower limit allowable.
 - 1. Install 3/8" mix for single course asphalt payment.
 - C. Place to thickness as indicated on drawings but not less than 3 inches if not indicated.
 - D. Install drainage grilles and frames in correct position and elevation.
 - E. Compact pavement by rolling with equipment specified in Section 302-5.6, SSPWC. Do not displace or extrude pavement from position.
 - F. Develop rolling with consecutive passes to achieve even and smooth finish, without roller marks, rock pockets, ridges or depressions.
- 3.06 SEAL COAT
- A. Apply seal coat 30 days or more after surface course application, in accordance with manufacturer's recommendations.
 - B. Apply seal coat to surface course in accordance with Section 302-8.2, SSPWC.
 - C. Add water to specified seal coat material. When air temperatures of 90 degrees F or more are encountered during application, consult manufacturer for recommendations.
 - D. If pavement surface exhibits imperfections noted Placing Asphalt Pavement above, as determined by the Architect, the addition of sand aggregate to seal coat, and amounts thereof, shall be as recommended by the manufacturer.
 - E. A second application shall be made after first coat has dried to the touch. When sand is added to the first seal coat, two additional coats without extra sand shall be applied.
 - F. Allow seal coat to dry before permitting traffic or striping.
- 3.07 SLURRY SEALING
- A. Prior to slurry application, repair areas and major depressions, wide cracks filled, remove dust, dirt and other foreign material from the surface.
 - B. Apply a tack coat of diluted emulsified asphalt of same type and grade specified for the slurry.
 - C. Apply slurry in accordance with [ASTM D-3910], the Asphalt Institute Standards and the International Slurry Seal Association. Minimum thickness of 1/4".

3.08 PARKING BUMPERS

- A. Securely attach precast concrete parking bumpers into pavement with two 5/8 inch diameter galvanized solid rod anchors. Extend anchors 24 inches into ground. Apply adhesive to underside of concrete bumpers, as recommended by the manufacturer.
 - 1. [Low-VOC emission type, heavy duty adhesives as recommended by the manufacturer or expansion-type steel bolts set in holes drilled into concrete paving.]

3.09 SPOT PATCHING AND REPAIRS

- A. Patching: Saw cut perimeter of patch and excavate existing pavement section to sound base. Scarify and recompact the upper 12 inches of subgrade to 95% of maximum density. Excavate rectangular or trapezoidal patches, extending 12 inches into adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically.
 - 1. Tack coat faces of excavation and allow to cure before paving.
 - 2. Fill excavation with dense-graded, hot-mix asphalt base mix and, while still hot, compact flush with adjacent surface.
 - 3. Partially fill excavation with dense-graded, hot-mix asphalt base mix and compact while still hot. Cover asphalt base course with compacted, hot-mix surface layer finished flush with adjacent surfaces.]

3.10 TOLERANCES

- A. Flatness: Maximum variation of 1/4 inch measured with 10-foot straight edge.
- B. Scheduled Compacted Thickness: Within 1/4 inch.
- C. Variation From True Elevation: Within 1/2 inch.

3.11 PROTECTION

- A. Protect asphalt paving against vehicular traffic before and for 48 hours following seal coating.

END OF SECTION

SECTION 32 13 13
SITWORK CONCRETE

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes

1. Cast-In-Place concrete pedestrian paving and sidewalks.
2. Curbs and gutters.
3. Concrete stairs, ramps and landings.
4. Utility concrete pads.
5. Perimeter concrete curbing, mow strips, concrete drainage structures, swales.
6. Integral Color concrete.
7. Stain Concrete.
8. Stamped concrete.
9. Detectable Warnings

B. Related Sections:

1. Section 02 41 19 Selective Demolition.
2. Section 32 17 26 Tactile/Detectable Warning Surface Tile

1.02 REFERENCES

- A. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials.
- B. ACI 318 - Building Code Requirements for Structural Concrete and Commentary, 2005 Edition.
- C. ACI 301 - Structural Concrete for Buildings.
- D. ASTM - American Society for Testing and Materials
 1. ASTM A185 - Steel Welded Wire Reinforcement, Plain, for Concrete
 2. ASTM A615 - Deformed and Plain Billet-Steel Bars for Concrete Reinforcement
 3. ASTM C33 - Concrete Aggregates
 4. ASTM C94 - Ready-Mixed Concrete
 5. ASTM C150 - Portland Cement
 6. ASTM C171 - Sheet Materials for Curing Concrete
 7. ASTM C309 - Liquid Membrane-Forming Compounds for Curing Concrete
 8. ASTM C618 - Coal Fly Ash and Raw or Calcinated Natural Pozzolan for use as a Mineral Admixture on Concrete
 9. ASTM C920 - Elastomeric Joint Sealants
 10. ASTM C979 - Pigments for Integrally Colored Concrete
 11. ASTM C1107 - Packaged Dry, Hydraulic - Cement Grout (Non-Shrink)

12. ASTM D1751 - Preformed Expansion Joint Fillers for Concrete, Paving and Structural Construction
13. ASTM E1980-11 - Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces.

E. CBC - 2010 California Building Code and Supplements

1. CBC-11 - CBC Chapter 11B, Accessibility to Public Buildings, Public Accommodations, Commercial Facilities and Publicly Funded Housing
2. CBC-17 - CBC Chapter 17, Structural Tests and Special Inspections
3. CBC-19 - CBC Chapter 19[A], Concrete [(for DSA)]

F. CACRM - California Accessibility Compliance Reference Manual, updated based on 2010 California Building Code.

G. [LEED-NC Reference Guide.]

1.03 SUBMITTALS

A. Placement Schedule for approval: Provide details or sketches showing location of each placement of concrete Work. Do not deviate from location of expansion joints or scorelines.

B. Design mix for each concrete mix.

C. Steel reinforcement shop drawings, including materials, grade, bar schedules, spacing, bent bar diagrams, arrangement and supports.

D. Submit contraction (crack control) joint, expansion, isolation and construction joint layout to Architect for approval.

E. Product data on joint filler, sealants, curing compounds and reinforcing.

F. Project Record Documents

1. Accurately record actual locations of embedded sleeves, utilities and components that are concealed from view.

G. Submit Certification of experience for Color [Stain] [Aggregate] finisher.

H. [Special Environmental Requirements Product Submittal Form, found in Appendix A of Section 01 35 43 Special Environmental Requirements. Provide the following information for concrete materials and steel reinforcement:

1. Recycled Content.
2. Local/Regional Materials.]

1.04 REGULATORY REQUIREMENTS

A. Pedestrian walks, plazas and paving shall comply with CBC-11B, Sections 1133B.7.1.1, and 1133B.7.2. Architect has relied on CACRM published by DSA in its interpretation of these regulations.

B. Solar Reflectivity Index (SRI) of Concrete: minimum SRI of 35 target values per LEED-NC Reference Guide for LEED. LEED Sustainable Sites Credit 7.1.

1.05 QUALITY ASSURANCE

- A. Maintain one copy of all records on site.
- B. Acquire cement and aggregate from same source for all Work.
- C. Conform to Section 1905A.13, California Building Code, when placing concrete during hot weather.
- D. Conform to Section 1905A.12, California Building Code, when placing concrete during cold weather. No placement of concrete permitted below 50 degrees Fahrenheit.
- E. Concrete Stain/Concrete Color Installer Qualifications: Minimum 5 years experience with installing stain and color products specified, certified and approved by the manufacturer.
- F. Mock-up
 - 1. Install minimum 5 feet by 5 feet mock-up of concrete sidewalk for each surface treatment specified.
 - 2. Install mock-up one month prior to installation.
 - 3. Locate as approved by the Architect.
 - 4. Use identical forming system, sub-grade type, reinforcing, expansion joints, score joints, finishing and edge trim as specified for installation.
 - 5. Architect approval required.
 - 6. Mock-up may not be used in final installation.
 - 7. Remove mock-up materials from site and dispose legally.

1.06 EXTENDED WARRANTY

- A. Manufacturer shall warrant prefabricated detectable warning texture products against failure in materials or workmanship for at least the specified warranty periods. Upon written notice from Owner manufacturer shall promptly, without cost, and with least practicable inconvenience to Owner correct such defects.
 - 1. Failures include, but are not limited to, significant degradation in color fastness, conformation, sound-on-cane acoustic quality, resilience, and attachment will not degrade significantly.
 - a. Significant degradation means that product loses 10 percent or more of its approved design characteristics, as determined by the authority having jurisdiction.
 - 2. Minimum Warranty Period: 5 years from date of Certified Completion.

PART 2 - PRODUCTS

2.01 CONCRETE MATERIALS

- A. Cement: ASTM C150 - Type I - Normal or Type II - Moderate, Portland Cement type, from one manufacturing plant only. Color for exposed matrix: White cement for exposed aggregate finishes and colored concrete per Section 03 35 00.
- B. Aggregates: ASTM C33, single source for all materials. Maximum size aggregate: 1 inch.

- C. Non-Shrink Grout: ASTM C1107, premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents; capable of developing minimum compressive strength of 4,000 psi in 24 hours and 7,500 psi in 7 days unless otherwise indicated on Drawings; of consistency suitable for application and a 30 minute working time.
- D. Threshold and landing mortar: Wheelchair lift ramp mortar: Ardex K301, Mapei Quickcem Top 101 or equal. Finish with manufacturer's cement dressing products for smooth surface.
- E. Crushed Aggregate Base: [As specified in Section 32 12 16.] Crushed rock and rock dust conforming to requirements of Section 200-1.2, SSPWC, with 3/8 inch sieve requirement waived, or Class 2 aggregate base as defined in Section 26, CSS.

2.02 ACCESSORIES

A. Expansion Joints:

- 1. Fiber Expansion Joint Filler - ASTM D1751: Closed cell, 1/2 inch max. thick; FIBER EXPANSION JOINT by American Highway Technology, Kankakee, IL, DECK-O-FOAM by W. R. Meadows, Dayton Superior or approved equal.
- 2. Joint Devices: Integral extruded polystyrene plastic; 1/2 inch max. thick, with removable top strip exposing sealant trough; JOINT CAPS.
- 3. Sealant: Polyurethane two-component type, self-leveling, for level surface application, UREXPAN NR-200 or DYNATRED for sloped surfaces, manufactured by Pecora Corp., Harleysville PA, or equal. Color shall be selected by Architect from manufacturer's standard list of colors.
- 4. Primer: As recommended by sealant manufacturer.
- 5. Joint Backing: ASTM C1330, Cylindrical, Type C, closed cell, polyethylene backer rod; oversized 30 to 50 percent larger than joint width. Green Rod by Nomaco Inc. or equal.

B. Slip Resistant Finish: Dry shake type aluminum oxide abrasive grains, hardness No. 9 on Mohr's scale; Emery Non-slip, manufactured by Dayton Superior, Kansas City, KS, Emery Aggregate manufactured by Oregon Emery Co., Halsey OR, or equal as approved in accordance with Division 01, General Requirements for Substitutions.

C. Safety Stair Nosings: Style B-41A, 4 inches wide manufactured by Barrycraft Pattern and Foundry, Inc., Birmingham, AL, or equal as approved in accordance with Division 01, General Requirements for Substitutions. Provide nosings (strips) at all treads.

- 1. Install 2" wide nosings (Strips) (2" min. - 4" max.) in contrasting color (70% contrasting), 1" maximum from edge of nosing of each exterior stairs, CBC Section 1133B.4.4. Colors to be selected by Architect.
- 2. Install in fresh concrete, cast in place.

D. [Renovation Treads: comply with CBC 1133B.4. Aluminum, anti-slip tread 9/32 inches thick, 11 inches wide, Model Type 511 SN two tone by Wooster Products Inc., Wooster, Ohio. [comply with CBC 1133B.4. Aluminum, anti-slip tread Model Type SG4702-5 inch tread [SG500R-9 inch tread] by American Safety Tread Co., Helena AL,] or equal.

- 1. Install 2 inches contrasting color (70 percent recommended) warning stripe 1 inch maximum from edge of nosing of each exterior stair, and top and bottom nosing only at interior stairs.

ADDENDUM NO. 2
SITWORK CONCRETE
32 13 13 - 4

2. Install at existing exterior concrete stairs with manufacturer's adhesive and countersunk screws.]
- E. Integral Color and Stain for New Concrete: LITHOCHROME CHEMSTAIN applied to LITHOCHROME Color Hardener CEMETONE Clear Sealer. Provide 6 colors. Manufactured by L.M. Scofield Company, Bomanite Corporation, Madera CA, or equal per Division 01 requirements.
- F. Stain for Uncolored Concrete and Sealer: LITHOCHROME CHEMSTAIN and CEMETONE Clear, Sealer Manufactured by L.M. Scofield Company, Bomanite Corporation, Madera CA or equal. Provide full color product line.
- G. Integral Color Concrete with Sealer: ASTM C979, manufactured by Davis Colors, Inc, Los Angeles, CA, L.M. Scofield CHROMIX, minimum of three (3) colors, or equal in accordance with Division 01, General Requirements. Colors: As selected by Architect in accordance with Section 09 06 12 Schedules for Finishes - Exterior.
- H. Color Hardeners: pigmented hardener for coloring concrete, dry shake type, COLOR HARDENER by Symons Corporation, Des Plaines, IL, Lithochrome Color Hardener by L.M. Scofield. Colors to be selected by Architect.
- I. Anti-Slip Floor Tape: Coarse grit tape, OSHA 1910.265, 2 inches wide x the length of the stair nosing, Setonwalk Anti-slip Tape by Seton Name Plate Co. Branford, CT, Tred-Sure by Garon Products, Inc., New Brunswick, NJ or equal. Color: in contrasting color to be selected by Architect.

2.03 CONCRETE MIX

- A. Mix and deliver concrete in accordance with Section 1905A, California Building Code. Deliver concrete in transit mixers only. Mix concrete for 10 minutes minimum at a peripheral drum speed of approximately 200 feet per minute. Mix at jobsite minimum 3 minutes. Discharge loads in less than 1-1/2 hours or under 300 revolutions of the drum, whichever comes first, after water is first added.
 1. Design Mix:
 - a. Conform to Section 1905A.3, 2010 California Building Code for Proportioning on the basis of field experience or trial mixtures method.
 - b. Conform to Section 1905A.2 for Selection of concrete proportions method. Selection of concrete proportions and ingredients for design mix by a DSA [OSHPD]-approved Testing Laboratory and certified by a registered civil engineer licensed in California.
 - c. Method B, Section 1905A.2.3. CBC 2010
 2. Do not exceed 0.50 water-cement ratio by weight for floor slabs and for other concrete.
 3. Quantities of Materials: Weighmaster's records not required for sitework concrete.
 4. Required Strength: Minimum 2,500 psi for sitework concrete.
- B. Fly ash shall be used at 15% maximum replacement of the Portland cement at a 1:1 replacement ratio by weight. Fly Ash shall meet the requirements of ASTM C 618 with the exception that the Loss on Ignition shall not exceed 1.0 percent. Only Class F material is permitted.

- C. Solar Reflectivity Index (SRI) of Concrete: provide concrete mix that yields a minimum SRI of 35 with Solar Reflectance value of 0.35 and emittance of 0.9.

2.04 REINFORCEMENT

- A. Reinforcing Steel: ASTM A615; deformed billet steel bars, in grades as follows, and conforming to CBC-19, Section 1903A.
 - 1. For No. 4 and larger bars, use 60 ksi yield grade.
 - 2. For ties and stirrups, and No. 3 and smaller bars, use 40 ksi yield grade.
 - 3. For welded bars, use ASTM A706 60 ksi yield grade.
- B. Welded Wire Reinforcement: Plain type, ASTM A185; in flat sheets; uncoated finish, 6 x 6 - W4.0 x W4.0 unless otherwise note on drawings.
- C. Tie Wire: Annealed steel, minimum 16 gage size.
- D. Dowels: ASTM A615; 60 ksi yield grade, plain steel, uncoated finish.
- E. Secondary Fibrous Reinforcement:
 - 1. Collated, fibrillated, polypropylene fibers for secondary reinforcement of concrete slabs with length varying from 1-1/2 to 2 inches or nylon filamentized fibers of 3/4 inch length meeting requirements of ASTM C1116, Type III, by Forta, Forta Corp., or equal.

2.05 FORMS

- A. Conform to Section 1906A.1 and 1906A.2, California Building Code.
- B. Plywood Forms: APA - Medium density overlay, Group 1, Exterior, PS-1, for exposed surfaces. APA Plyform B-B, Class 1, Exterior, PS-1 for unexposed surfaces.
 - 1. Use flexible or curved forms for curves with a radius 100 feet or less.
- C. Lumber: Douglas Fir species, construction grade, Surfaced Lumber, with grade stamp clearly visible for smooth and straight exposed surface.
- D. Form Release Agent; commercially formulated form-release agent that will not bond with, stain or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces.

2.06 CURING MATERIALS

- A. Polyethylene Film ASTM C171; 10 mil thick, clear, manufactured from virgin resin with no scrap or additives, manufactured by Burke-Edoco, Long Beach, CA, or equal as approved in accordance with Division 01, General Requirements for Substitutions.
- B. Water: Potable and not detrimental to concrete.
- C. Curing Compound: ASTM C309, Type 2, Class A; wax resin base, Burke Wax Emulsion White curing compound, by Burke-Edoko, Euclid Chemical Co. or equal as approved in accordance with Division 01, General Requirements for Substitutions. [Curing materials and procedures for colored concrete in accordance with coloring material manufacturer's recommendations.

- D. Curing Compound: ASTM C309, Type 1-D, Class B; water-based, All-Resin curing compound clear with red fugitive dye, by Burke-Edoco, Euclid Chemical Co. equal. Curing materials and procedures for colored concrete in accordance with coloring material manufacturer's recommendations.
- E. Curing Compound for Colored Concrete: ASTM C309, Type 1, Class B; Water-base all resin curing compound-clear, by Burke-Edoco, Euclid Chemical Co. or equal. Curing materials and procedures for colored concrete in accordance with coloring material manufacturer's recommendations.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify site conditions.
- B. Verify requirements for concrete cover over reinforcement.
- C. Verify that anchors, seats, plates, reinforcement and other items to be cast into concrete are accurately placed, positioned securely and will not cause hardship in placing concrete.

3.02 PREPARATION

- A. Prepare previously placed concrete by cleaning with steel brush and applying bonding agent in accordance with manufacturer's instructions.
- B. In locations where new concrete is doweled to existing Work, drill holes in existing concrete, insert steel dowels and pack solid with non-shrink grout.

3.03 PLACING CONCRETE (GENERAL)

- A. Convey and deposit concrete in accordance with Section 1905A.9 and 1905A.10, California Building Code. Remove loose dirt from excavations.
- B. Notify Job Inspector minimum 24 hours prior to commencement of operations.
- C. Ensure reinforcement, inserts, embedded parts, formed joint fillers, joint devices and accessories are not disturbed during concrete placement.
- D. Ensure sub-base or base materials have been compacted or otherwise treated.
 - 1. Sub-base and base preparation per Section 31 23 16 [31 23 15] Excavation and Section 31 23 23 for Backfilling.
[*****OR*****]
 - 2. [Remove existing natural soils to depth required for sitework concrete thickness and elevations.
 - 3. Remove unsuitable soil, backfill with clean compactable soil or approve granular material to required elevations.
 - 4. Scarify exposed natural sub-base to depth of 6 inches. Bring to optimum moisture content and re-compact to 90 percent in accordance with ASTM D 1557.

5. Add approved aggregated base to required elevation in 6 inch maximum lifts. Bring to optimum moisture content and compact to 90 percent in accordance with ASTM D1557.
- E. Install joint fillers, primer and sealant in accordance with manufacturer's instructions.
- F. Place concrete continuously between predetermined expansion joints.
 1. Install expansion joints at vertical concrete walls at 24 feet on center unless noted otherwise on drawings.
- G. Do not interrupt successive placement; do not permit cold joints to occur. Avoid segregation of materials. Perform tamping and vibrating so as to produce a dense, smooth application free of rock pockets and voids. Do not use vibrators to move concrete horizontally.
- H. Do not allow concrete to fall free from any height which will cause materials to segregate. Maximum height of free fall permitted in any case: 5 feet.
- I. Defective Installation: Repair and clean at Contractor's expense all concrete damaged or discolored during construction. Where concrete requires repair before acceptance, the repair shall be made by removing and replacing entire section between joints and not by refinishing the damaged portion.
- J. Proper curing of concrete surfaces is the responsibility of the Contractor. Concrete failing to meet specified strength shall be removed and replaced.

3.04 ON-SITE CONCRETE SIDEWALKS, PEDESTRIAN PAVED AREAS AND RAMPS

- A. Forms, Wood: Free from warp, with smooth and straight upper edges, surfaced one side, minimum thickness 1-1/2 inches adequate to resist springing or deflection from placing concrete.
- B. Forms, Metal: Gage sufficient to provide rigidity and strength equivalent to wood.
- C. Reinforcing Steel: # 4 bars, place bars at 12 inches on center each way for sidewalks and paved areas and #4 bars for edges unless otherwise indicated on Drawings.
- D. [Reinforcement: Provide welded steel wire fabric, 6 inches by 6 inches, No. 10 gage at middle of slab for sidewalks and ramps. Interrupt reinforcement at expansion joints.]
- E. Concrete Placement: Dampen subgrade to retain moisture in concrete mix. Tamp and spade to consolidate concrete for entire length of pour. Strike off upper surface to specified grades.
- F. Isolation Joints: Locate at slabs abutting vertical concrete surfaces and as patterned on drawings. Install vertically, full depth of concrete with preformed joint filler recessed for plastic cap at 1/2 inch depth at top for sealant application.
 1. Doweled Isolation Joints at Heavy Vehicle Driveways and Parking: At abutting building foundations; provide 1/2-inch diameter smooth steel dowels 14 inches long, one end of dowel lubricated and set in capped sleeve to allow for longitudinal movement, spaced at 24 inches on center maximum, 6 inches from edges.
 2. Monolithic Curb and Gutter: No expansion joints required between gutter and curb face.

- G. Expansion Joints: Locate maximum 24 feet centers and as patterned on drawings. Install vertically, full depth of concrete, install preformed joint filler recessed for plastic cap at 1/2 inch depth at top for sealant application.
1. Monolithic Curb and Gutter: No expansion joints required between gutter and curb face.
- H. Contraction/Crack Control Joints: At 8 feet each way at concrete paved areas, and 5 feet at sidewalks, tool joint with 1/2 inch radius, depth 1/4 the thickness of slab but not less than 1 inch deep. Refer to drawings for required design patterns.
- I. Curb Ramps: Form grooves, flush to finished surfaces, 12" wide border. Grooves at 1/4" deep, 1/4" wide and at 3/4" on centers at 3 sides on level surface of the sidewalk. Provide patterns as indicated in drawings. Detectable Warnings at Curb Ramps per IR 11B-2 and 11B-3, 11B-4 CBC 1127B.5.7.
1. Detectable warning (Truncated Domes) required at curb ramps less than 1:15 (6.7% slope), DSA IR 11B-3.
 2. Detectable Warnings (Truncated Domes) required at all Curb Ramps, American with Disabilities Act Standards for Accessibility Design Section 4.7.7.
 - a. Set Paver Truncated Dome products in full mortar bed per Section 32 14 13 Unit Pavers and as indicated on drawings.
OR
 - a. Plastics/Composites: Cast in place plastic tiles per manufacturer's instructions and in accordance with CBC.
 - b. Form bottom edge flush and free of abrupt changes DSA IR 11B-2.
- J. Finish:
1. Screed concrete to required grade, float to a smooth, flat, uniform surface. Edge all headers to 1/2 inch radius. Edge expansion joints to 1/4 inch radius. Steel trowel to hard surface.
 2. Grades less than 6 percent: shall conform to Section 1133B.7.1.1. After final troweling, apply a medium broom finish transverse to centerline or direction of traffic. Finish shall be at least as slip resistant as that described as a medium salted finish.
 3. Grades exceeding 6 percent: shall conform to Section 1133B.7.1.2. After final troweling, apply a heavy broom finish transverse to centerline or direction of traffic
 4. Walkway grades in excess of 5 percent shall conform to requirements of Section 1133B.7.3, California Building Code.
 5. Concrete slabs indicated to receive paving units, DETECTABLE WARNING AND DIRECTIONAL TEXTURE: Wood float to grades required for pavers.
- K. Curing: Cure surfaces utilizing one of the following methods:
1. Spraying: Spray water over slab areas and maintain wet for 7 days, use burlap mats.
 2. Spread polyethylene film over slab areas, lapping edges and sides, minimum 6 inches and sealing with pressure sensitive tape; cover with plywood or otherwise protect film from damage; maintain in place for 7 days.

3. Apply liquid curing compound at rate of 200 sf per gallon, using power sprayer equipped with agitator. Do not apply liquid curing compound to surfaces scheduled to receive paving units of any kind.
- L. Remove expansion joint plastic caps. Prime both sides of joint and apply self-leveling sealant per Section 07 92 00. Provide smooth concave surface.
- M. Detectable Warnings [Directional Bars (Directional Texture)] AT BOARDING PLATFORMS. Comply with CBC Sections 1133B8.3, 1133B.8.4. and 1133B.8.5.
 1. Set paver products in full mortar bed per Section 32 14 13 Unit Pavers and as indicated on drawings.
OR
 2. Plastics/Composites: Cast in place plastic tiles per manufacturer's instructions and in accordance with CBC.

3.05 SLIP RESISTANT FINISH

- A. Apply slip resistant finish in accordance with manufacturer's instructions on concrete ramp surfaces with slope in excess of 6 percent and all formed concrete stairs and landings:
 1. Float and trowel concrete once and allow to set until surface will support finisher's supports.
 2. Uniformly distribute grains over surface at the rate of 50 lbs. per 100 square feet.
 3. Imbed grains with a light wood float.
 4. Apply a light steel float. Do not trowel excessively. Grains shall remain visible in a uniform pattern.

3.06 FORMED CONCRETE STAIRS AND LANDINGS

- A. Subgrade Preparation: As approved by the Geotechnical Engineer.
- B. Forms: Suitable material and type, size, shape, quality and strength to ensure construction as designed, true to line and sufficiently rigid to resist deflection during placing of concrete. Clean forms of all dirt, mortar and foreign matter before use.
- C. Reinforcement: Place accurately and hold in position, using metal chairs, spacers, metal hangers, supporting wires and other devices of sufficient strength to resist crushing under full load. Clean reinforcing steel of mortar, oil, dirt, loose mill scale, loose or thick rust and coatings.
- D. Install specified metal safety nosings flush to finished surfaces.
[*****OR*****]
- E. Form grooved nosing flush to finished surface, 3" wide. Grooves at 1/4" deep, 1/4" wide and at 3/4" on centers full length of stair at all treads. Apply contrasting color paint at all treads per Section 09 90 00.
- F. Finish: Hard steel trowel at monolithic risers. Steel trowel surfaces treated with Slip Resistant Finish sufficiently to allow particles to extend slightly above finish surface.
 1. Slip Resistant Finish: Apply in accordance with manufacturer's instructions on surfaces at a minimum rate of 50 lbs. per 100 square feet.

2. Owner's Option in lieu of Slip Resistant Finish:
 - a. Apply Medium Broom Finish.
 - b. [Apply Heavy Broom Finish.]
 - G. Curing: Cure surfaces utilizing one of the following methods:
 1. Spraying: Spray water over slab areas and maintain wet for 7 days.
 2. Contractor's Option
 - a. Spread polyethylene film over slab areas, lapping edges and sides, minimum 6 inches and sealing with pressure sensitive tape; cover with plywood or otherwise protect film from damage; maintain in place for 7 days.
 - b. Apply liquid curing compound at rate of 200 square feet per gallon, using power sprayer equipped with agitator.
 - H. Install anti-slip tape at existing concrete stairs, all treads.
- 3.07 CURB AND GUTTER, PERIMETER CONCRETE CURBING, MOW STRIPS
CONCRETE DRAINAGE STRUCTURES, SWALES
- A. Subgrade Preparation: Subgrade material, base material and compaction requirements as approved by the Geotechnical Engineer.
 - B. Forms: Single face type required, cut to conform exactly with face batter and radius, sufficiently rigid to resist springing or deflection from concrete placement. Clean forms of all loose dirt, mortar or similar materials and apply a light coating of oil or other suitable material prior to concrete placement.
 1. Slip Forms: Contractor's option upon approval of the Architect.
 - C. Reinforcement: Refer to drawings for size and spacing. Interrupt reinforcement at expansion joints.
 - D. Concrete Placement: Dampen subgrade to retain moisture in concrete mix. Tamp and spade to consolidate concrete to entire length of pour. Strike off upper surface to specified grades. Cut drain pipes to conform to curb batter.
 - E. Expansion Joints: Locate joint filler at maximum 20 foot centers. Trim off excess filler material flush to finish surface. No sealant application required.
 - F. Control Joints: at 8 feet on center, tooled joints, 1/2 inch radius.
 - G. Finish: Apply thin layer of mortar of 1 part portland cement to 1-1/2 parts sand to exposed faces. Trowel to a smooth and even finish with a fine hair broom applied parallel with the line of the work. Round all edges to 1/2 inch radius. No Contractor identification permitted.
 - H. Curing: Cure surfaces utilizing one of the following methods:
 1. Spraying: Spray water over curb and gutter and maintain wet for 7 days.
 2. Spread polyethylene film over areas, lapping edges and sides, minimum 6 inches and sealing with pressure sensitive tape; cover with plywood or otherwise protect film from damage; maintain in place for 7 days.
 3. Apply liquid-curing compound at rate of 200 sf per gallon, using power sprayer equipped with agitator.

3.08 COLORED CONCRETE ON-SITE SIDEWALKS AND CONCRETE AREAS

- A. Conform to On-Site Concrete Sidewalks and Concrete Areas procedures specified in this Section except where specified otherwise in this paragraph.
- B. Approved Manufacturer: Davis Colors, Inc., Los Angeles, CA, L.M. Scofield Company, Los Angeles, CA., or approved equal as approved in accordance with Division 01, General Requirements for Substitutions.
- C. Materials: Cement coloring dye for [exterior concrete sidewalks], ASTM C979; integral, with natural and synthetic pigments and no artificial adulterants or fillers. Color as selected by the Architect from manufacturer's standard list.
- D. Weight Required: As recommended by the manufacturer for the color selected, in pounds of dye per sack of gray cement in the total batch. Add pigment by weight only, no visual proportioning permitted.
- E. Rinse mixer drum thoroughly before batching colored concrete.
- F. Add coloring agent directly to mixer at charging or mixing speed of 50 to 100 RPM for 5 to 10 minutes. Constant ratio of coloring agent to cement and materials required.
- G. Curing: Cure colored concrete surfaces strictly in accordance with the coloring material manufacturer's recommendations. Apply matching color sealer in accordance with Davis Data #CS 78-1. Do not apply polyethylene sheeting or intermittent wetting or drying.]

3.09 STAINED CONCRETE

- A. Stained Concrete and Sealer for Uncured Concrete:
 - 1. Finish concrete and dry shake color hardener on freshly placed concrete. As selected by Architect.
 - 2. Apply concrete stain in formulas as recommended by the manufacturer for specific colors.
 - 3. Apply clear sealer per manufacturer's specifications.
- B. Stained Concrete and Sealer for cured Concrete:
 - 1. Clean, sweep and pressure wash concrete surface with commercial detergent. Rinse thoroughly after cleaning.
 - 2. Apply chemical stain to sufficiently cured concrete surface in accordance with the written instructions of the manufacturer.
 - 3. Apply a minimum of two separate chemical stain applications, full strength (undiluted) at a rate of 150-200 square feet per gallon per application.
 - 4. Apply two coats of clear sealer in accordance with the written instructions of the manufacturer.

3.10 STAMPED CONCRETE

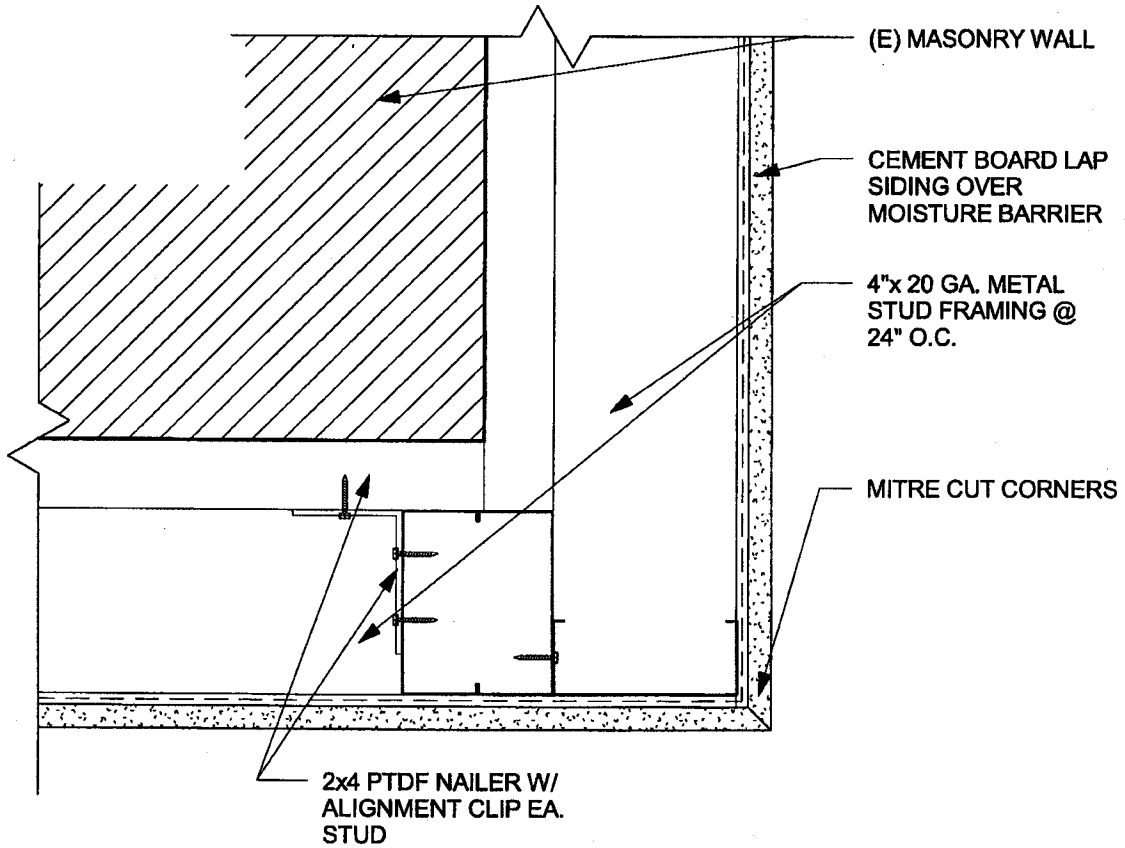
- A. Forms, Wood: Free from warp, with smooth and straight upper edges, surfaced one side, minimum thickness 1-1/2 inches adequate to resist springing or deflection from placing concrete.

- B. Forms, Metal: Gage sufficient to provide equivalent rigidity and strength.
 - C. Reinforcement: Unless indicated otherwise on the drawings, provide welded steel wire fabric, 6 inches by 6 inches, No. 10 gage at mid-height of sidewalks and ramps. Interrupt reinforcement at expansion joints.
 - D. Concrete Placement: Dampen subgrade to retain moisture in concrete mix. Tamp and spade to consolidate concrete for entire length of pour. Strike off upper surface to specified grades.
 - E. While concrete is still in plastic stage, apply approved pattern by use of imprinting tools. Use release agent as recommended by materials manufacturer. Pattern to be selected by the Architect.
 - F. Provide final troweling and touch-up surface treatment as required for approved pattern. Removed all traces of residual dust and excess release agent.
 - G. Install primer and sealant in expansion joints.
 - H. Apply uniformly over all surfaces the specified curing compound, with roller or sprayer. Thin with mineral spirits. Approximate coverage: 600 to 650 sf per gallon.
- 3.11 BUILD-UP CONCRETE AT DOOR TRESHOLDS FOR ACCESSIBILITY COMPLIANCE
- A. Remove concrete areas as indicated on drawings.
 - B. Install Threshold and Landing Mortar at front of doors, 72 x 60 [refer to drawings] inches, level area, and edges to ramp to a maximum slope of 5%.
- 3.12 [WHEELCHAIR-LIFT CONCRETE RAMP
- A. [Install wheelchair-lift concrete ramp and landing at location in front of wheelchair lift, 48 x 50 inches area flush to lift platform, ramp to landing shall have a slope of 8.3% and side flares at 12.5%. Outline pit area with contrasting paint color, 2" line, per Section 09 90 00 Painting.]
- 3.13 [FIELD QUALITY CONTROL
- A. Provide free access to Work and cooperate with testing personnel
 - B. Measure Solar Reflectivity values of Site concrete and submit reports to Architect. ASTM E1980-11]
- 3.14 TOLERANCES
- A. Construction tolerances shall not violate dimensions, grades, slopes required by CBC for accessibility requirements. Adjust work accordingly to comply with requirements.
 - B. Comply with tolerances of ACI 117 and as follows (tolerances may not exceed CBC maximum or minimum):
 - 1. Maximum deviation of 1/8 inch in 10 feet.
 - 2. Elevation: 1/4 inch (6 mm).
 - 3. Thickness: Plus 3/8 inch (10 mm), minus 1/4 inch (6 mm).

4. Surface: Gap below 10-foot- (3-m-) long, unlevelled straightedge not to exceed 1/8 inch (3 mm).
5. Lateral Alignment and Spacing of Tie Bars and Dowels: 1 inch (25 mm).
6. Vertical Alignment of Tie Bars and Dowels: 1/4 inch (6 mm).
7. Alignment of Tie-Bar End Relative to Line Perpendicular to Pavement Edge: 1/2 inch (13 mm).
8. Alignment of Dowel-Bar End Relative to Line Perpendicular to Pavement Edge:
Length of dowel 1/4 inch per 12 inches (6 mm per 300 mm).
9. Joint Spacing: 3 inches (75 mm).
10. Contraction Joint Depth: Plus 1/4 inch (6 mm), no minus.
11. Joint Width: Plus 1/8 inch (3 mm), no minus.

END OF SECTION

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ADDENDUM 2

Drawing Title: CEMENT SIDING - CORNER WALL

Reference Drawing: A2.2 REMODEL FLOOR PLAN

Project:
 RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT

Scale:
 Project No.
 2288004-000

Date: 10/27/11

DRAWING #:
AD2-1



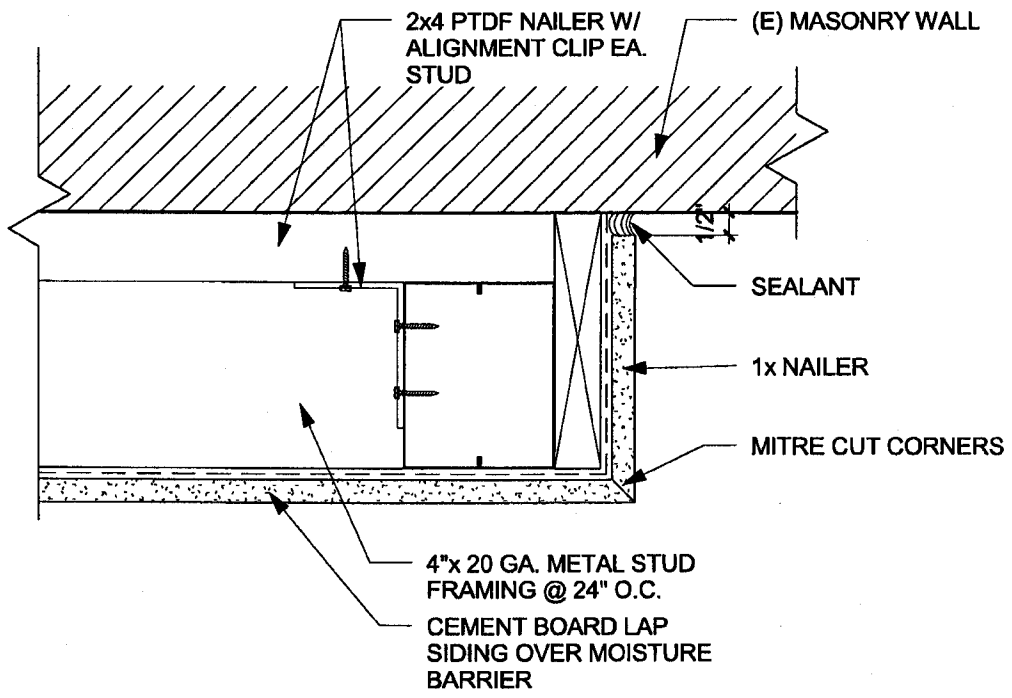
54401 Village Center Drive
 Idyllwild, CA 92549



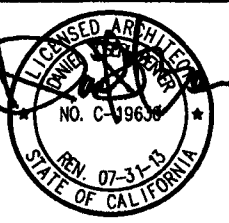
HMC Architects

3540 Concourse Street / Ontario, CA 91764
 T 909 989 9979 / www.hmcarchitects.com

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ADDENDUM 2



HMC Architects
 3546 Concourse Street / Ontario, CA 91764
 T 909 998 9979 / www.hmcarchitects.com

Drawing Title: CEMENT SIDING - END WALL

Reference Drawing:

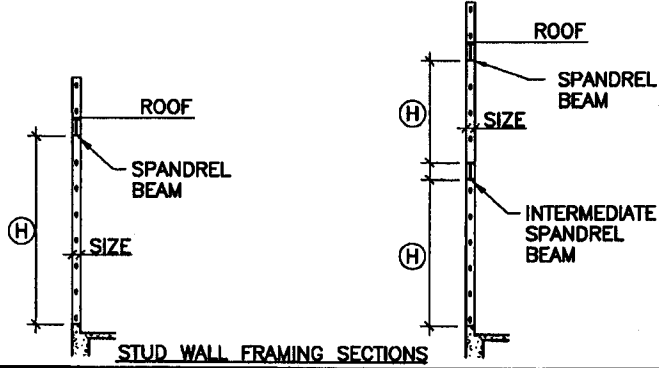
Project:
 RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT
 54401 Village Center Drive
 Idyllwild, CA 92549

Scale:
 Project No. 2288004-000
 Date: 10/27/11
 DRAWING #: AD2-2

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NOTES:

1. REFER TO ARCHITECTURAL FLOOR PLAN OF EACH INDIVIDUAL BUILDING AND RELEVANT KEY NOTES TO DETERMINE METAL WALL STUD WALL SIZES (DEPTHS).
2. USE 8" DEEP, 18 GA. STUDS FOR EXTERIOR WALL FRAMING, TYP. EXCEPT AS OTHERWISE NOTED.
3. USE 6" DEEP, 20 GA STUDS FOR INTERIOR WALL FRAMING, TYP. EXCEPT AS OTHERWISE NOTED.
4. FOR OTHER FRAMING NOT INCORPORATED BY #2 OR #3 USE THIS SCHEDULE TO DETERMINE PROPER GAGE THICKNESS FOR A GIVEN SIZE WALL STUD SPANNING VERTICAL DIMENSION (H).
5. ALL STUDS SHALL BE 16"O.C. W/ L/240 DEFLECTION U.N.O.



SIZE	GAGE	MAX. HEIGHT (H)	
		EXT. WALL	INT. WALL
4"	20	10'-6"	16'-8"
	18	11'-5"	18'-1"
	16	12'-3"	19'-5"
6"	20	14'-3"	22'-10"
	18	15'-8"	24'-11"
	16	16'-10"	26'-9"
8"	18	15'-8"	24'-11"
	16	21'-3"	33'-8"
10"	18	23'-9"	-
	16	25'-6"	-

TYPICAL STEEL STUD WALL FRAMING SCHEDULE



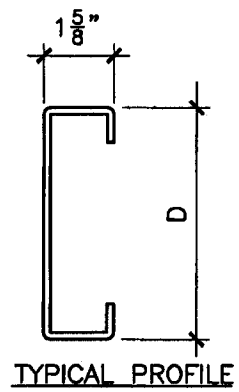
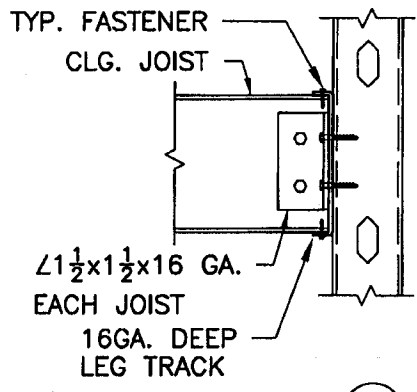
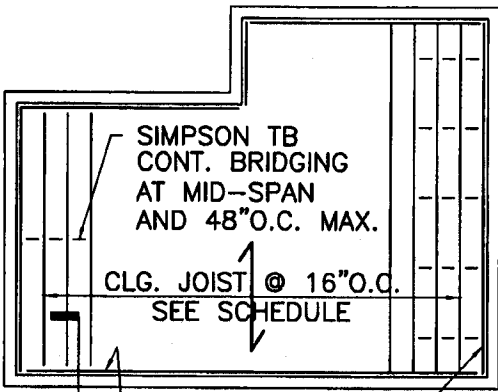
KANDA | TSO

KANDA AND TSO ASSOCIATES
 CONSULTING STRUCTURAL ENGINEERS
 511 MISSION STREET
 SOUTH PASADENA, CA. 91030-3035
 TEL: (626) 441-1211
 FAX: (626) 441-1011

ADDENDUM 2

	Drawing Title: TYP. STEEL STUD WALLFRAMING SCHEDULE	
	Reference Drawing: 20/S1.3	
		Project: RIVERSIDE COUNTY EDA IDYLLWILD LIBRARY TENANT IMPROVEMENT
		Scale: NO SCALE
	54401 Village Center Drive Idyllwild, CA 92549	Project No. 2288004-000
		Date: 10/27/11
3546 Concourse Street / Ontario, CA 91764 T 909 988 9979 / www.hmcarchitects.com		DRAWING #: SR-1

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A 16GA. DEEP LEG TRACK LEDGER—SAME DEPTH AS JOIST TYP.

JOIST LEDGER (A)

SCREW SIZE: NO.10 TEKS SCREWS FOR METAL TO METAL OR 10dx2" WOOD SCREW FOR METAL TO WOOD

SPAN	JOIST SIZE	LEDGER CONN. TO STUD	JOIST TO L1 1/2 x 1 1/2 x 18GA. / L1 1/2 x 1 1/2 x 16GA. TO LEDGER
0' TO 10'-0"	4"x18GA	(2) SCREWS	(2) SCREWS
10'-1" TO 14'-0"	6"x18GA	(2) SCREWS	(2) SCREWS
14'-1" TO 19'-0"	8"x18GA	(3) SCREWS	(3) SCREWS
19'-1" TO 23'-0"	10"x18GA	(4) SCREWS	(4) SCREWS

JOIST SECTION PROPERTIES PER $\frac{10}{-}$

INTERIOR CEILING FRAMING PLAN AND SCHEDULE 2 23

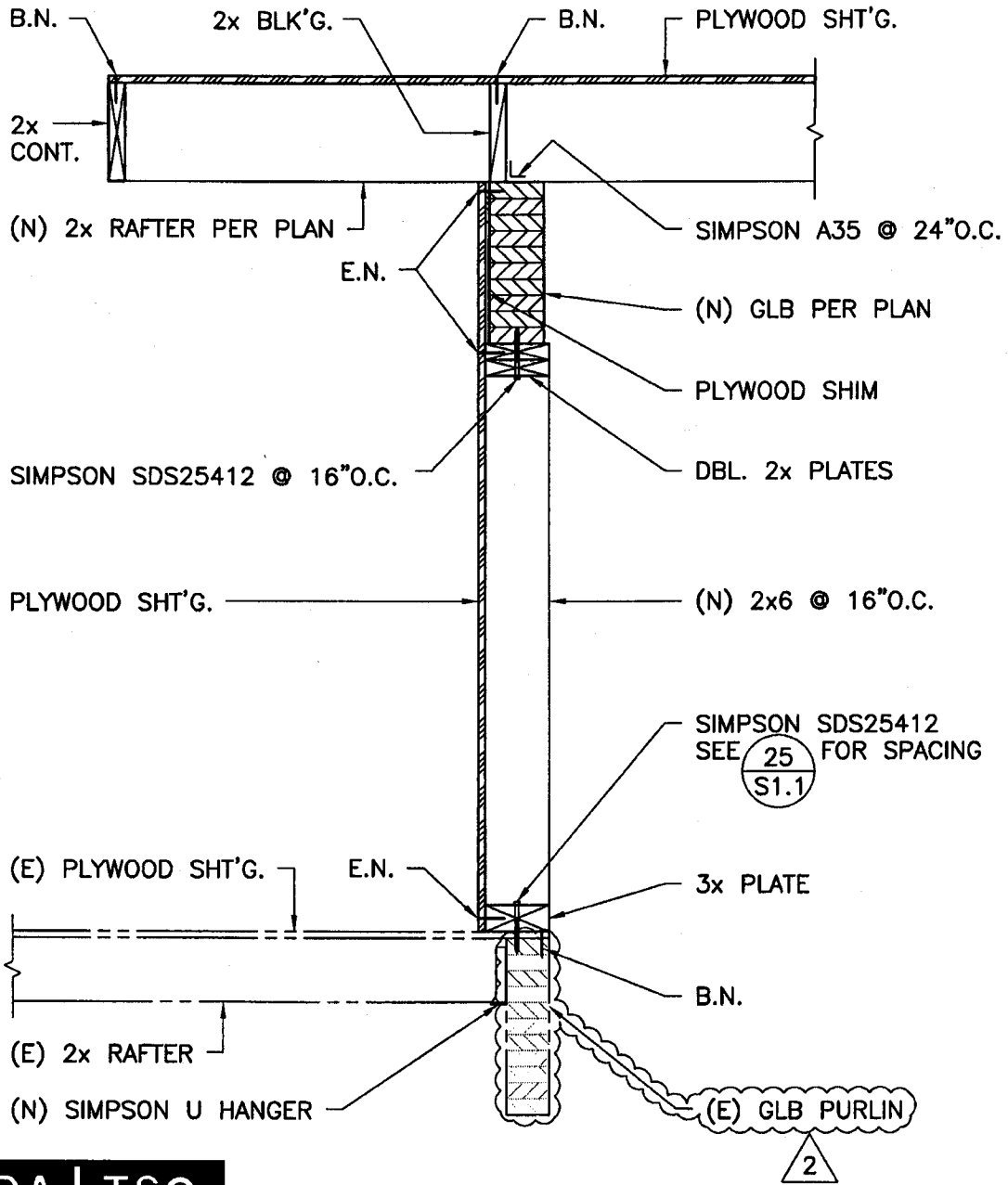
KANDA | TSO

KANDA AND TSO ASSOCIATES
CONSULTING STRUCTURAL ENGINEERS
511 MISSION STREET
SOUTH PASADENA, CA. 91030-3035
TEL: (626) 441-1211
FAX: (626) 441-1011

ADDENDUM 2

	Drawing Title: INTERIOR CEILING FRAMING PLAN AND SCHEDULE	
	Reference Drawing: 23/S1.3	
<p>HMC Architects 3546 Concourse Street / Ontario, CA 91764 T 909 989 9978 / www.hmcarchitects.com</p>	<p>EDA ECONOMIC DEVELOPMENT AGENCY</p>	Scale: NO SCALE
	Project: RIVERSIDE COUNTY EDA IDYLLWILD LIBRARY TENANT IMPROVEMENT 54401 Village Center Drive Idyllwild, CA 92549	Project No. 2288004-000 Date: 10/27/11 DRAWING #: SR-2

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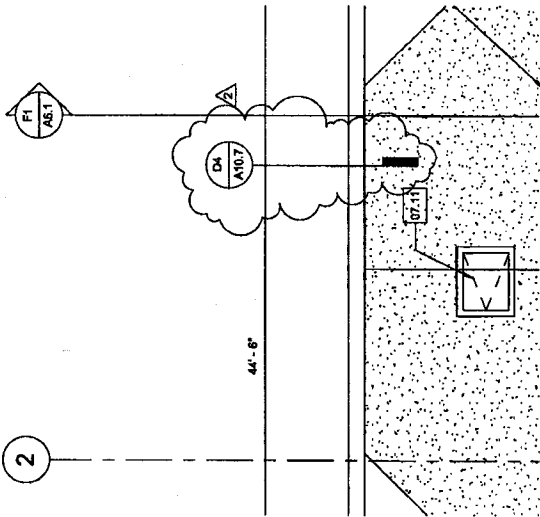
KANDA | TSO

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 CONSULTING STRUCTURAL ENGINEERS
 511 MISSION STREET
 SOUTH PASADENA, CA. 91030-3035
 TEL: (626) 441-1211
 FAX: (626) 441-1011

ADDENDUM 2

	Drawing Title: REVISED SECTION	
	Reference Drawing: 16/S4.1	
	Project: RIVERSIDE COUNTY EDA IDYLLWILD LIBRARY TENANT IMPROVEMENT	Scale: $\frac{3}{4}'' = 1'-0''$
	54401 Village Center Drive Idyllwild, CA 92549	Project No. 2288004-000
		Date: 10/27/11
HMC Architects <small>3548 Concourse Street / Ontario, CA 91754 T 909 988 9879 / www.hmcarchitects.com</small>		DRAWING #: SR-3

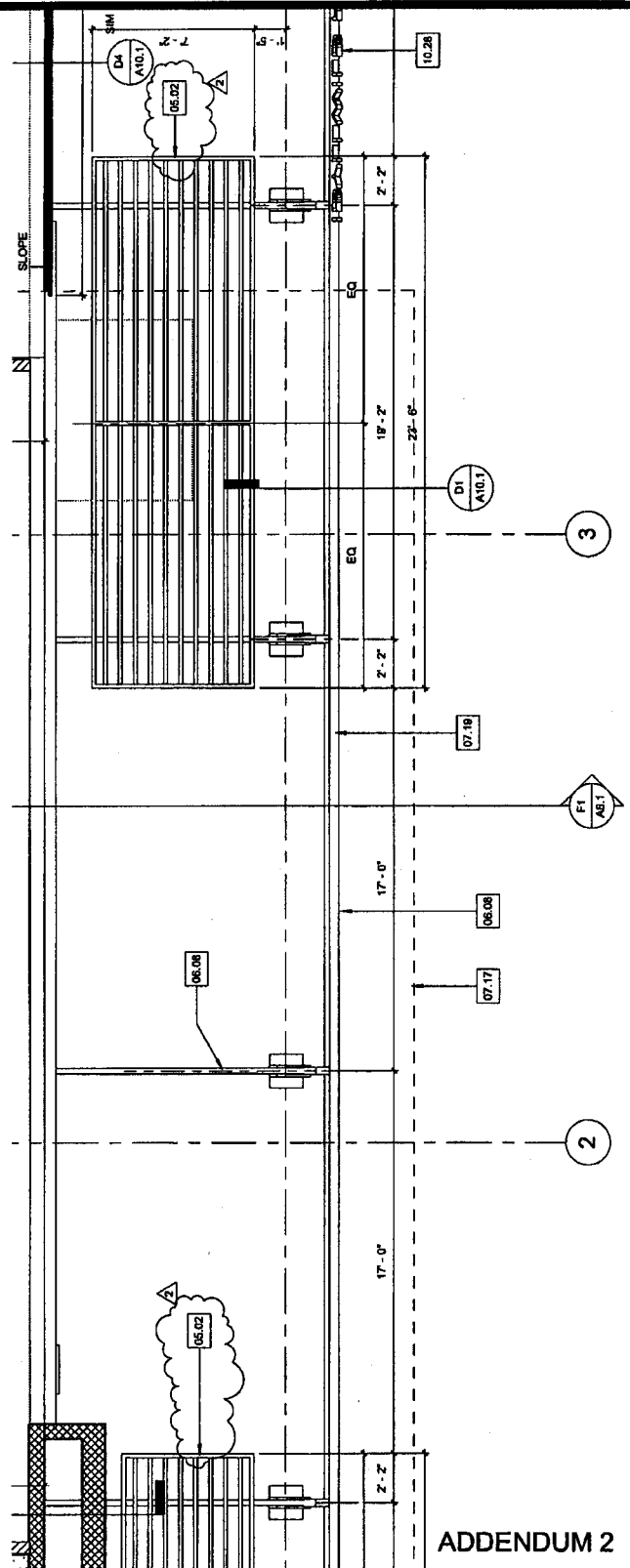
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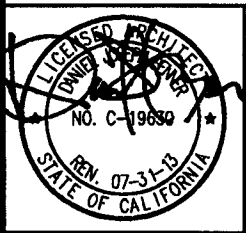
KEY NOTES

- 06.02 STEEL TRELLIS, SEE DETAIL D1/A10.1
- 06.03 CURB-JAMBANED HEADS, SEE DETAIL S2.2 & S2.3
- 07.02 MEMBRANE ROOFING - MODIFIED BITUMEN, SEE SPECS SECTION 07.52
- 07.04 SHEET METAL GUTTER, SLOPE TO DOWNSPOUT @ MAIN ROOF, SEE BBA10.7

DETAIL



ADDENDUM 2



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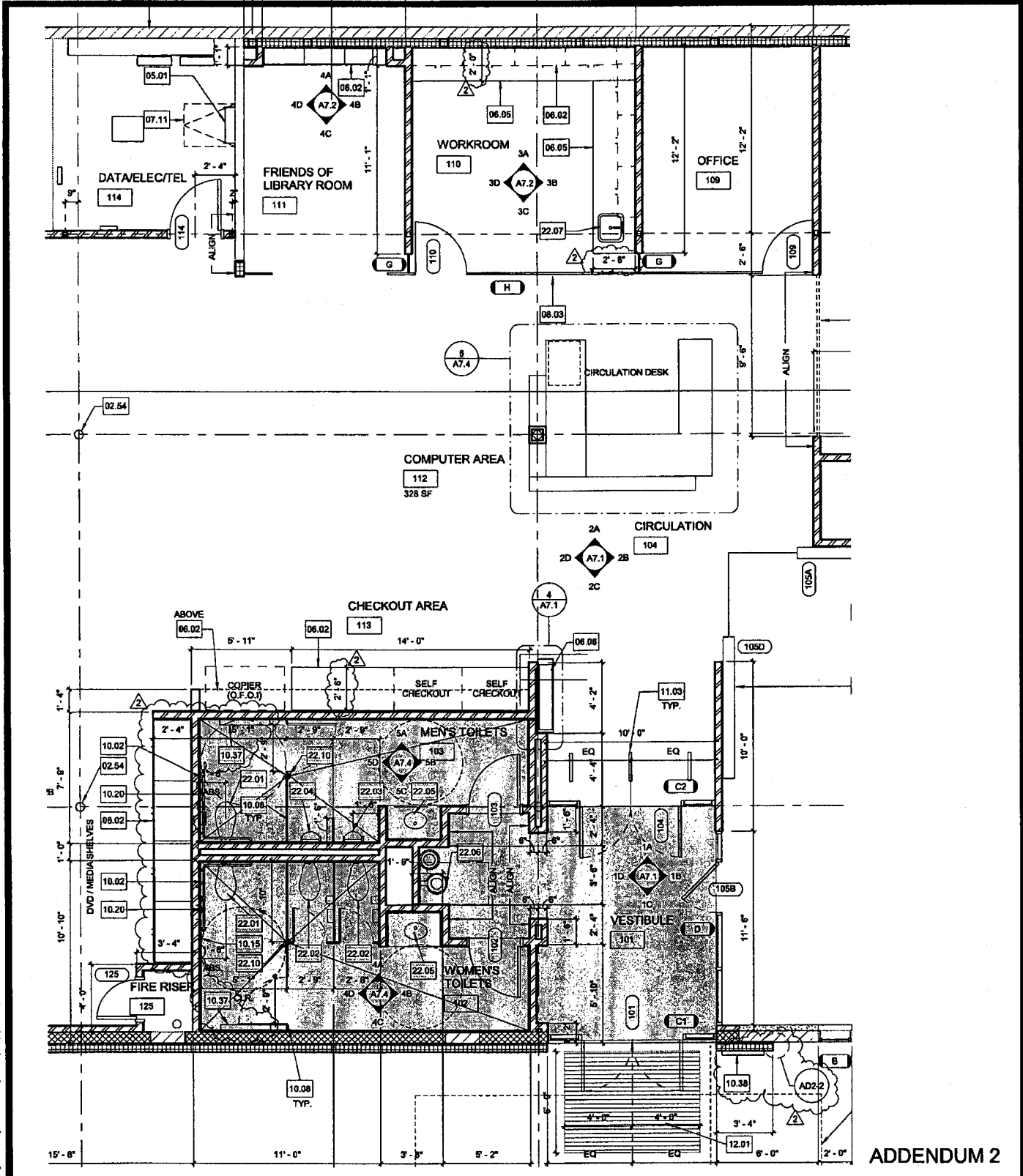
Drawing Title: REMODEL ROOF PLAN - LOW ROOF (PARTIAL)

Reference Drawing: A4.2

Project:
 RIVERSIDE COUNTY EDA
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Scale: NTS
 Project No. 2288004-000
 Date: 10/27/11
 DRAWING #: AD2-3

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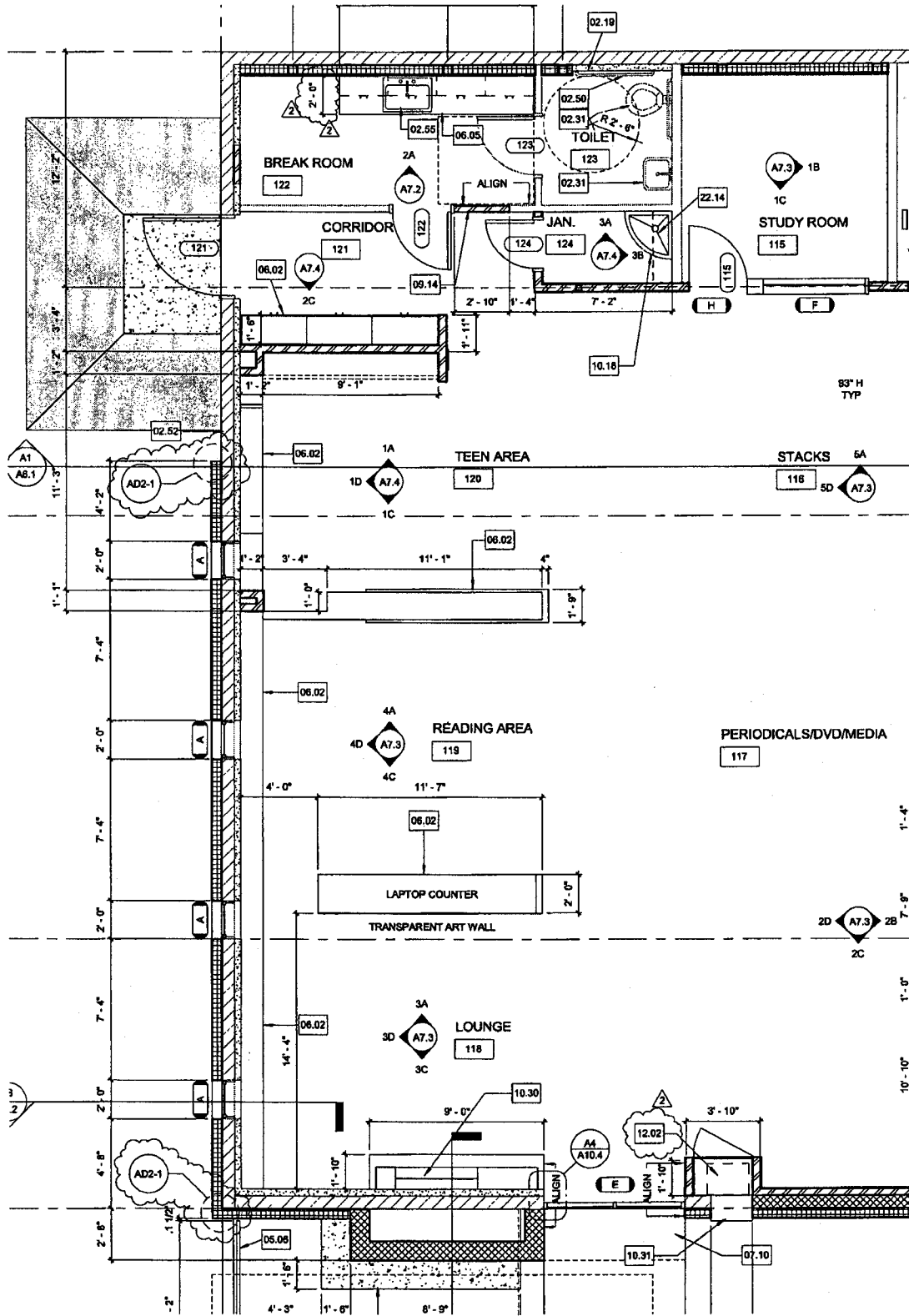
Drawing Title: PARTIAL REMODEL FLOOR PLAN

Reference Drawing: A2.2

Project:
 RIVERSIDE COUNTY EDA
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Scale:
 Project No.
 2288004-000
 Date:
 10/27/11
 DRAWING #:
 AD2-4

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ADDENDUM 2



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Drawing Title: PARTIAL REMODEL FLOOR PLAN

Reference Drawing: A2.2

Project:
 RIVERSIDE COUNTY EDA
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**54401 Village Center Drive
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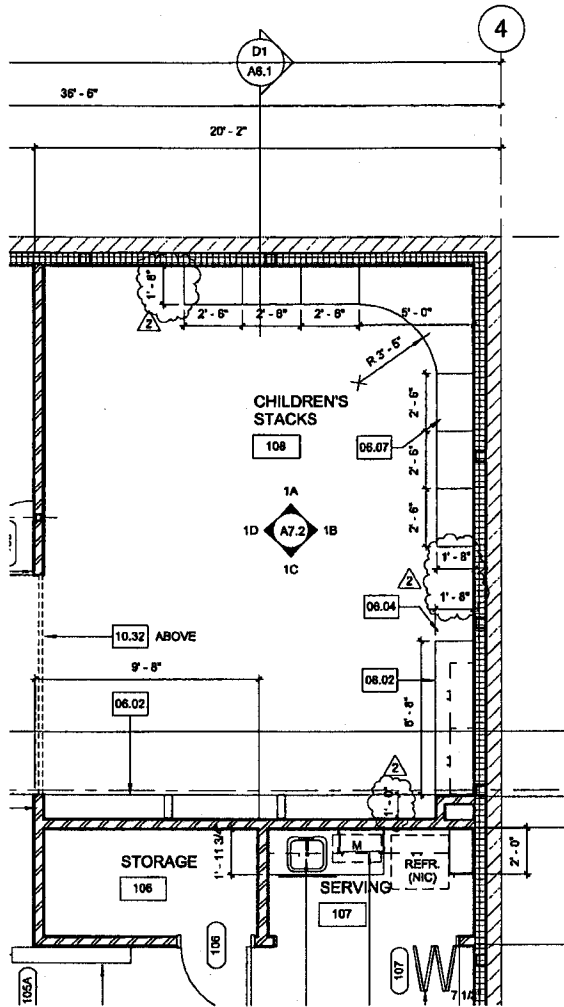
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Project No. 2288004-000

Date: 10/27/11

DRAWING #: AD2-5

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ADDENDUM 2

Drawing Title: PARTIAL REMODEL FLOOR PLAN

Reference Drawing: A2.2

Project:
RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT

Scale: 1/8" = 1'-0"
 Project No.
 2288004-000
 Date:
 10/27/11
 DRAWING #:
AD2-6

54401 Village Center Drive
 Idyllwild, CA 92549



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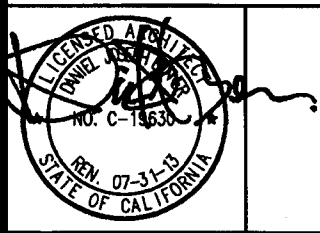
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#	KEY NOTES	DETAIL
10.18	MOP RACK, SEE DETAIL A1/A10.11	
10.20	TOILET TISSUE DISPENSER, SEE DETAIL A1/A10.11	
10.30	DECORATIVE ELECTRIC FIREPLACE, SEE SPECS. SECTION 10 80 00	2
10.31	LIBRARY BOOK DROP, SEE DETAIL D2/A10.10 & SPEC. SECTION 10 80 00	
10.32	ALUMINUM LETTER SIGNAGE, SEE SPEC SECTION 10 14 54	
10.33	SLIDING WOOD DOOR/PARTITION, SEE SCHEDULE A9.1 & SEE SPEC. SECTION 10 22 43	
10.37	DIAPER CHANGING STATION; PROVIDE BACKING, VERIFY WITH MANUF. FOR BACKING LOCATION. SEE SPECIFICATION SECTION 10 29 00	
10.38	DEDICATION PLAQUE, SEE SPEC. SECTION 10 14 54; PROVIDE BACKING	
11.03	LIBRARY DETECTION SYSTEM, SEE SPEC SECTION 11 51 13	2
11.07	LIBRARY SHELVING - ETSEY, O.F.C.I.	
11.09	LIBRARY SHELVING END PANEL, O.F.C.I.	
11.10	ATLAS STAND, SEE SPEC SECTION 11 51 23	
12.01	ENTRANCE MAT, SEE DETAIL A1/A10.2 & SPECS. SECTION 12 48 13	
12.02	ALUMINUM CART, SEE SPECIFICATION SECTION 10 80 00	
22.01	ACCESSIBLE TOILET	2
22.02	STANDARD TOILET, SEE DETAIL A1/A10.11	
22.03	ACCESSIBLE URINAL, SEE DETAIL A1/A10.11	

ADDENDUM 2



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Drawing Title: PARTIAL KEYNOTES	
Reference Drawing: A2.2	
	Project: RIVERSIDE COUNTY EDA IDYLLWILD LIBRARY TENANT IMPROVEMENT 54401 Village Center Drive Idyllwild, CA 92549
Scale: NTS	Project No. 2288004-000
Date: 10/27/11	DRAWING #: AD2-7

LEGEND - FINISHES



C1
(CARPET)



CONC1
(SEALED CONCRETE)



(E)
(EXISTING CONDITION)



ETF1
(RESILIENT TILE FLOORING)



CT1
(CERAMIC TILE)



SV1
(SHEET VINYL FLOORING)

--- (P#) --- PAINT ACCENT COLOR

--- (STN#) --- STAIN COLOR

--- (CT#) --- CERAMIC WALL TILES

--- (WC#) --- WALL COVERING

--- (TWP#) --- TACKABLE WALL PANEL

2

ADDENDUM 2

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Drawing Title: **LEGEND - FINISHES**

Reference Drawing: **A8.1**



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Scale: NTS

Project No.
2288004-000

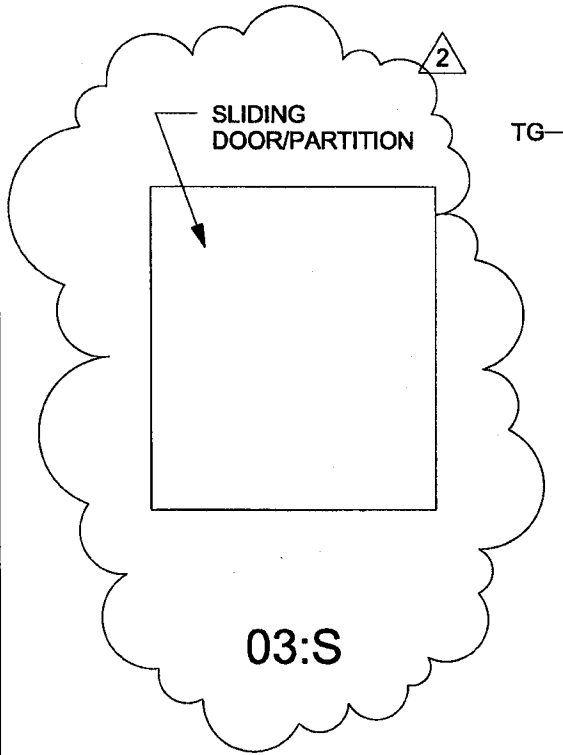
Date:
10/27/11

DRAWING #:
AD2-8

DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE				Fire Rating	Door				FRAME			HARDWARE GROUP	PANIC	GLASS	DETAILS (SHEET A10.8 U.N.O.)			SIGN DETAILS (SHEET A10.10)
	WIDTH		HEIGHT	MATERIAL		FINISH	PANEL TYPE	UNDERCUT	MATERIAL	FINISH	FRAME TYPE	HEAD				JAMB	THRESH		
	# OF	PANEL																	
101	2	3'-0"	7'-0"	NR	AL	FF	05:D	0"	AL	FF	SEE: SCH	1	Yes	IG	B6	B6	H2/A10.9	B2, H1	
102		3'-0"	7'-0"	NR	WD	ST	01:S	0"	HM	PT	A:S	4	No	-	D4	D4	F1/A10.9	F4A, D4A, H1	
103		3'-0"	7'-0"	NR	WD	ST	01:S	0"	HM	PT	A:S	4	No	-	D4	D4	F1/A10.9	F4B, D4B, H1	
104	2	3'-0"	7'-0"	NR	AL	FF	05:D	0"	AL	FF	SEE: SCH	2	Yes	CTG	B6	B6	D1/A10.9	B2, H6&H1	
105A		8'-4"	9'-6"	NR	WD	PT	03:S		HM	PT	A:S	12	No	-	D2	D2	D2	A6	
105B		3'-0"	7'-0"	NR	AL	FF	05:S	0"	AL	FF	SEE: SCH	5	Yes	CT	B6	B6	D1/A10.9	B2, F2, H4, H6&H1	
105C		3'-0"	7'-0"	NR	HM	PT	01:S	0"	HM	PT	A:S	3	Yes	-	H4	H4	F2/A10.9	B2, H6&H1	
105D		5'-2"	9'-0"	NR	WD	PT	03:S		HM	PT	A:S	12	-	-	D1	D1	D1	-	
106		3'-0"	7'-0"	NR	WD	ST	01:S	0"	HM	PT	A:S	6	No	-	B4	B4	H1/A10.9	F2, H1	
107		8'-0"	7'-2"	NR			07:D				A:S	12	No	-	A4	A6	A4	-	
109		3'-0"	7'-0"	NR	GL		02:S		AL	FF	WDW TYPE "H"	7	No	CTG	B1	A2	B1/A10.9	F2, H1	
110		3'-0"	7'-0"	NR	GL		02:S		AL	FF	WDW TYPE "H"	7	No	CTG	B1	A2	B1/A10.9	F2, H1	

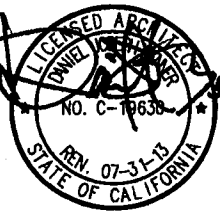
DOOR PANEL TYPES



ADDENDUM 2

Drawing Title: PARTIAL DOOR SCHEDULE & DOOR PANEL TYPES

Reference Drawing: A9.1



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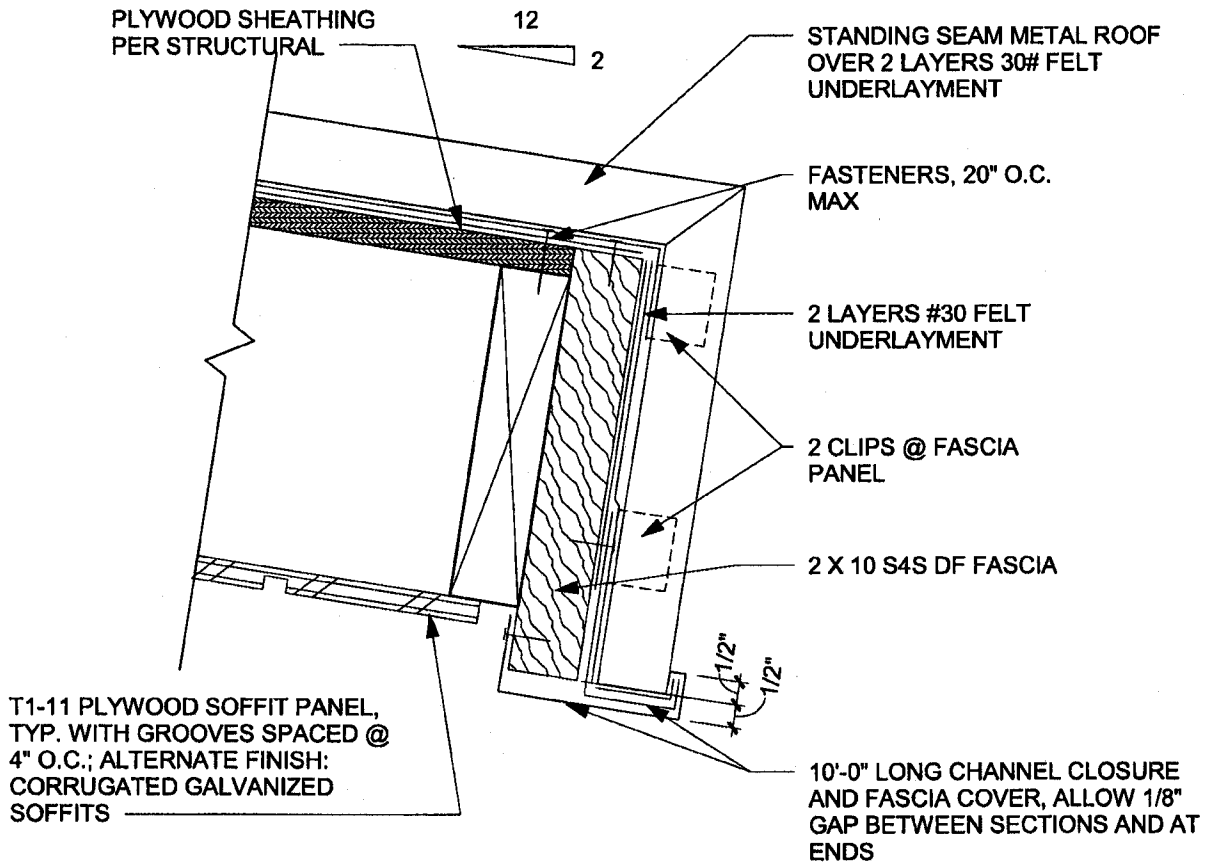


Project:
RIVERSIDE COUNTY EDA
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Date: 10/27/11
DRAWING #: AD2-9

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ADDENDUM 2

Drawing Title: METAL ROOF EAVE DETAIL

Reference Drawing: A10.7

Project:
RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT

Scale: 3" = 1'-0"

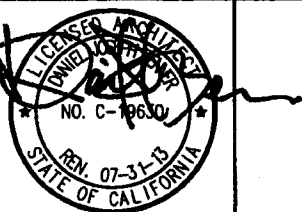
Project No.
2288004-000

Date:
10/27/11

DRAWING #:
AD2-10



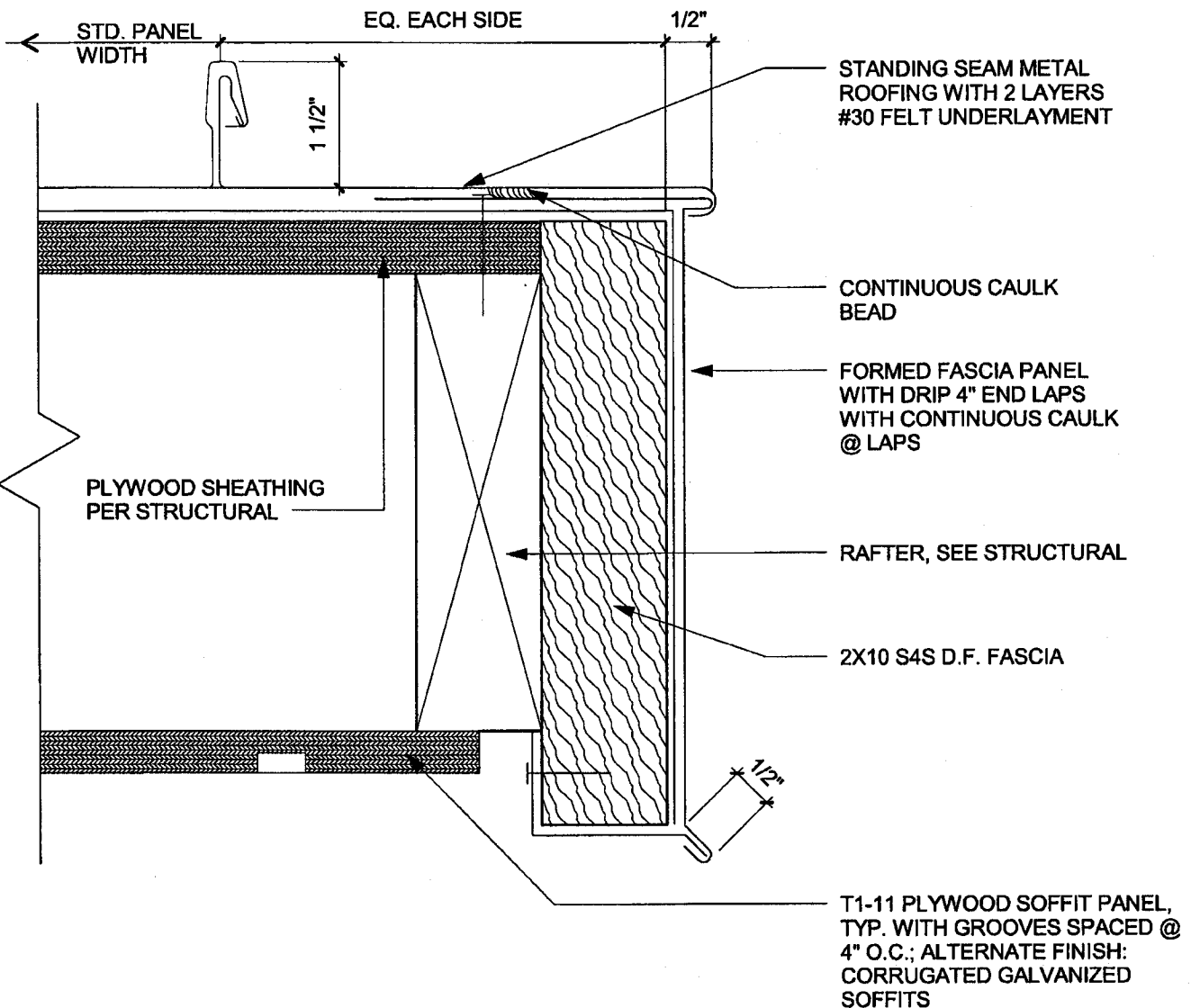
54401 Village Center Drive
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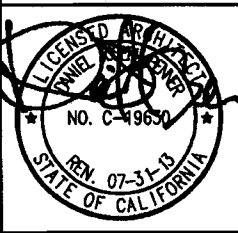
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ADDENDUM 2



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Drawing Title: METAL ROOF FASCIA DETAIL	
Reference Drawing: A10.7	
 Project: RIVERSIDE COUNTY EDA IDYLLWILD LIBRARY TENANT IMPROVEMENT 54401 Village Center Drive Idyllwild, CA 92549	Scale: 3" = 1'-0"
	Project No. 2288004-000
	Date: 10/27/11
	DRAWING #: AD2-11

KEY NOTES

DETAIL

09.07	RESILIENT BASE, SEE SPEC. SECTION 09 65 13
09.13	HARDWOOD PLYWOOD PANELING (WDC1), SEE SPEC. SECTION 06 40 00
10.32	ALUMINUM LETTER SIGNAGE, SEE SPEC SECTION 10 14 54
10.33	SLIDING WOOD DOOR/PARTITION, SEE SCHEDULE A0.1 & SEE SPEC

LEGEND - FINISHES

- P# PAINT ACCENT COLOR
- STN# STAIN COLOR
- CT# CERAMIC WALL TILES
- WC# WALL COVERING
- TWP# TACKABLE WALL PANEL
- SP# SOLID POLYMER
- PL# PLASTIC LAMINATE

NOTES

1. FOR TYPICAL SYMBOLS AND ABBREVIATIONS, REFER TO SHEET G0.1
2. AT SOFFIT LOCATIONS WITH ACCENT PAINT, PAINT COLOR TO TURN TO UNDERSIDE OF SOFFIT
3. REFER TO SPECIFICATION SECTION 09 06 00 SCHEDULE FOR FINISHES FOR FINISHES AND COLORS.

ADDENDUM 2

Drawing Title: PARTIAL KEYNOTES, LEGEND AND NOTES

Reference Drawing: A7.1, A7.2, A7.3, A7.4 & A7.5 ENLARGED PLAN

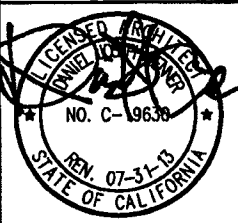
Project:
 RIVERSIDE COUNTY EDA
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 Project No.
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Date:
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DRAWING #:
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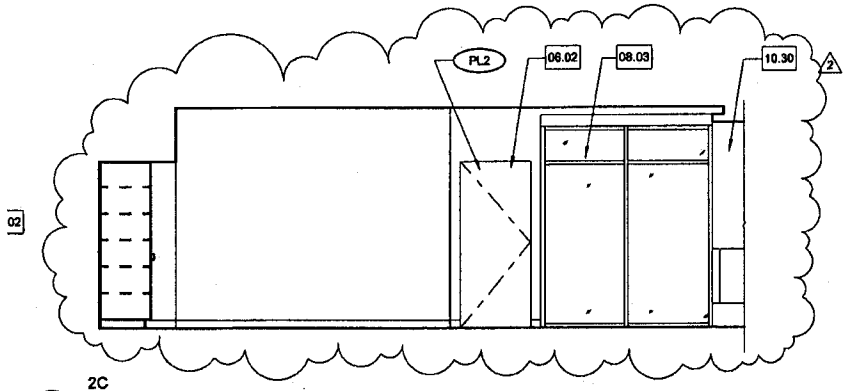


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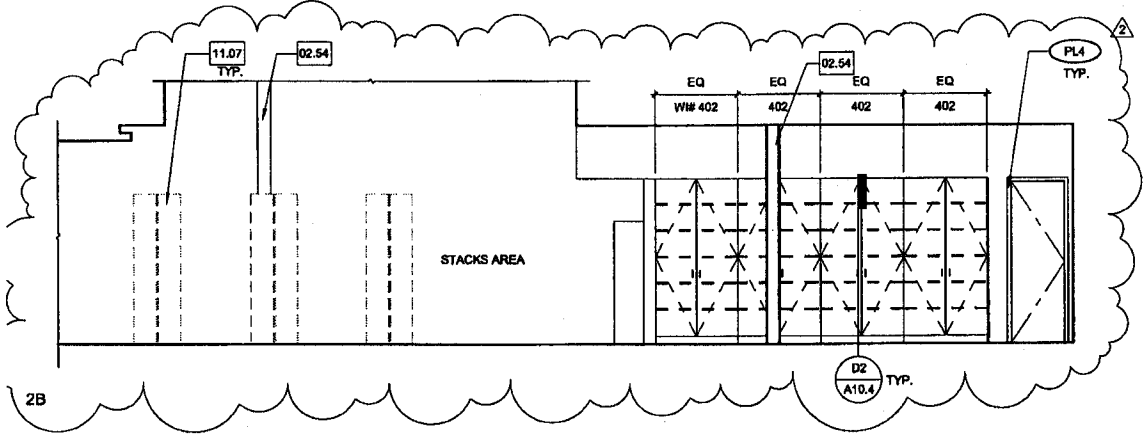


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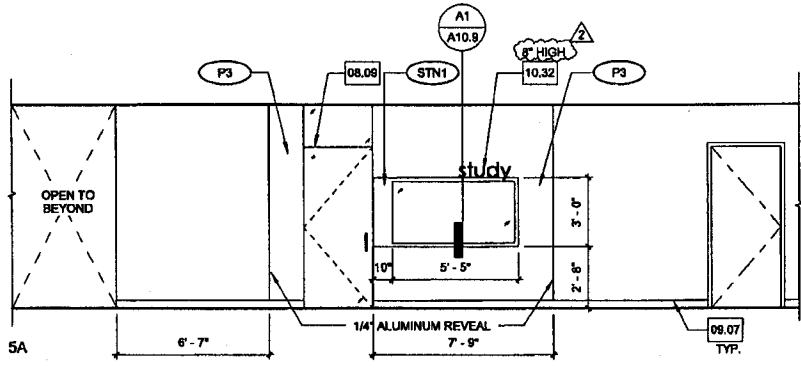


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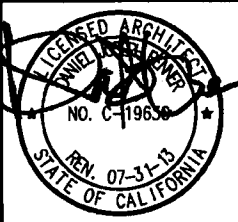
2B

RM117 - PERIODICALS / DVD / MEDIA 2



RM116 - STACKS 5

ADDENDUM 2



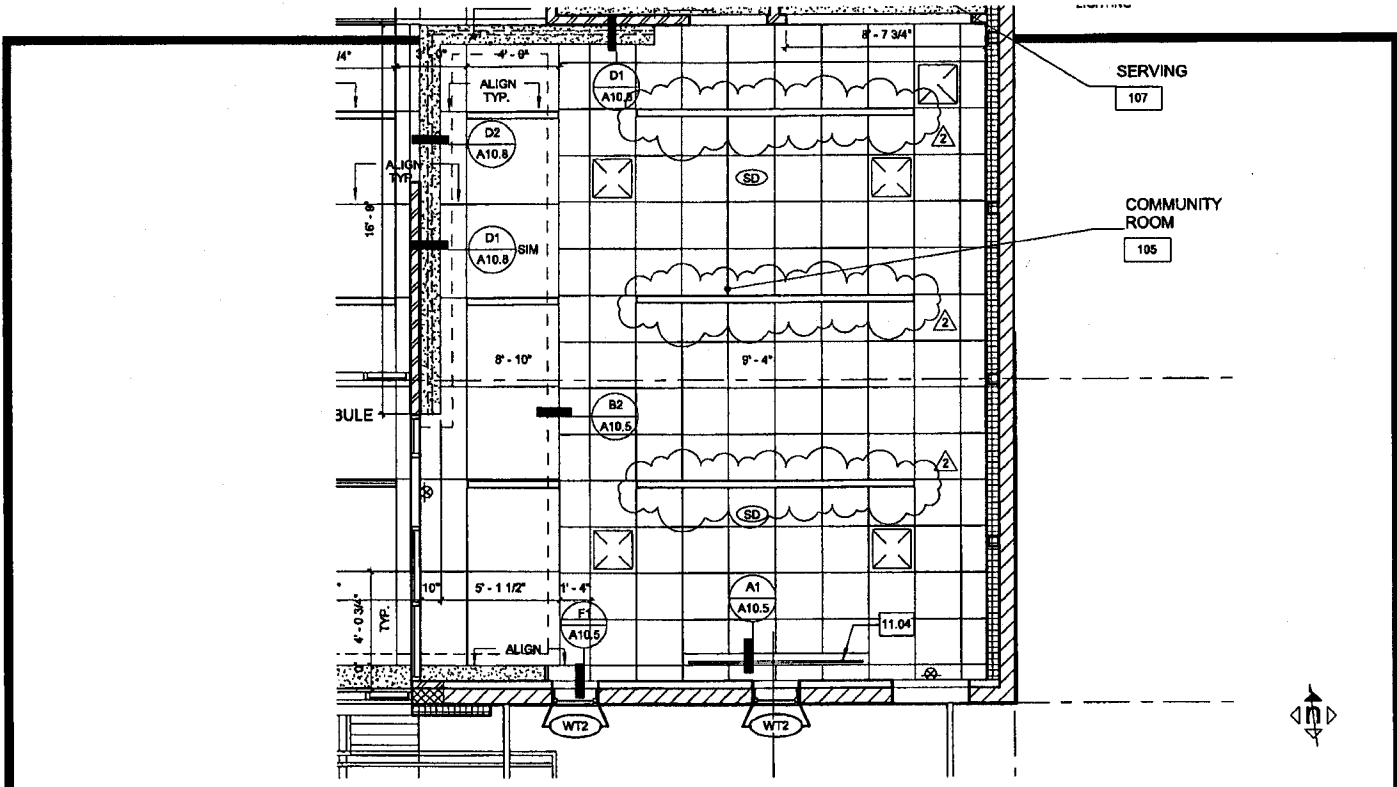
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Drawing Title: PARTIAL INTERIOR ELEVATIONS

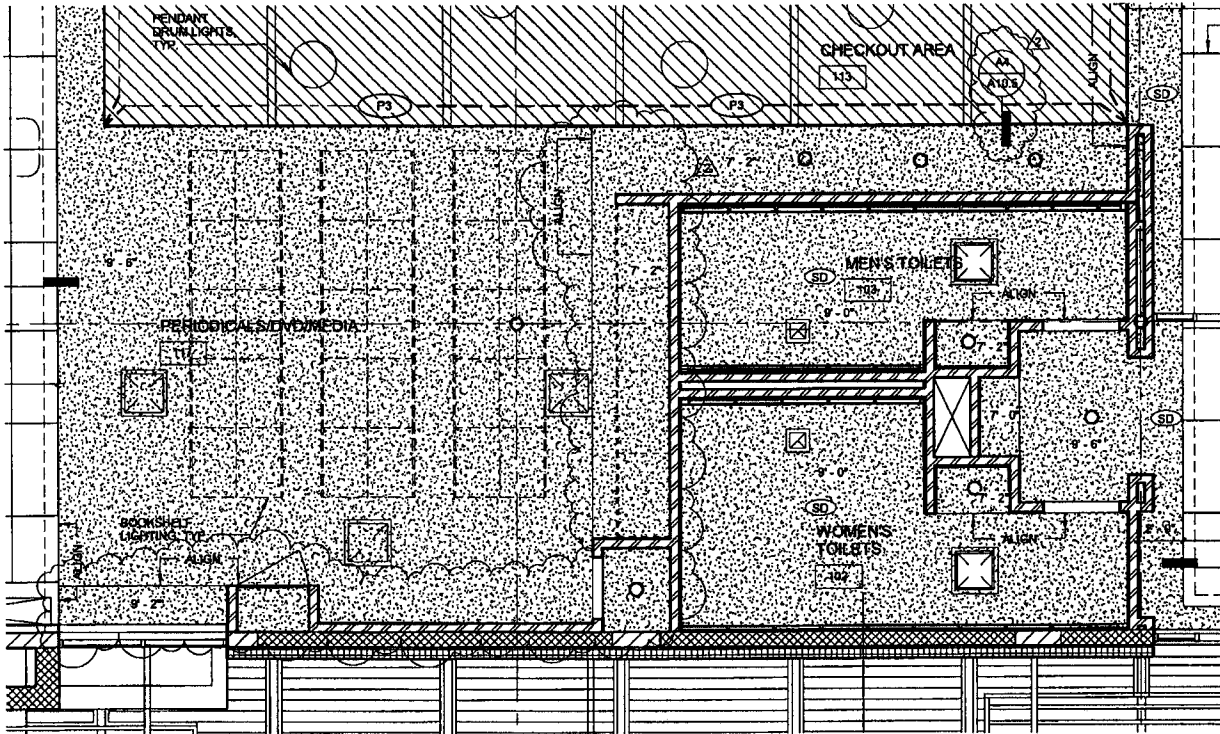
Reference Drawing: A7.3

Project:
 RIVERSIDE COUNTY EDA
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 TENANT IMPROVEMENT
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Scale: 1/8" = 1'-0"
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 DRAWING #: AD2-13



PARTIAL REMODEL REFLECTED CEILING PLAN



ADDENDUM 2

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





















Drawing Title: PARTIAL REMODEL REFLECTED CEILING PLAN

Reference Drawing: A3.2

Project:
 RIVERSIDE COUNTY EDA
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 54401 Village Center Drive
 Idyllwild, CA 92549

Scale: 1/8" = 1'-0"
Project No. 2288004-000
Date: 10/27/11
DRAWING #: AD2-14

PLUMBING SYMBOLS

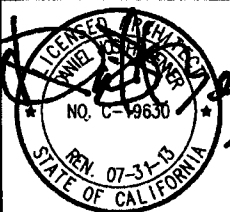
<p> REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)</p> <p> FLOOR DRAIN, PLANTER DRAIN,</p> <p> ROOF DRAIN, OVERFLOW DRAIN</p> <p> FLOOR SINK, AREA DRAIN (FS,AD)</p> <p> REDUCER</p> <p> UNION</p> <p> PIPE ANCHOR</p> <p> FLEXIBLE CONNECTOR</p> <p> STRAINER</p> <p> WATER HAMMER ARRESTER BEHIND ACCESS PANEL</p> <p> TRAP PRIMER BEHIND ACCESS PANEL</p> <p> PRESSURE GAUGE WITH PET COCK</p> <p> THERMOMETER</p> <p> AQUASTAT</p> <p> DRIP PAN</p> <p> AUTOMATIC AIR VENT</p> <p> TEMPERATURE/PRESSURE RELIEF VALVE & PRESSURE RELIEF VALVE</p> <p> AIR RELIEF VALVE</p> <p> CHECK VALVE</p> <p> GATE VALVE</p> <p> BALL VALVE</p> <p> PRESSURE REGULATING VALVE</p> <p> GAS PRESSURE REGULATOR</p> <p> BALANCING VALVE</p> <p> VALVE IN YARD BOX</p> <p> SOLENOID VALVE (ELECTRIC)</p> <p> GAS COCK</p>	<p> HOSE BIBB</p> <p> DIRECTION OF FLOW</p> <p> WASTE PLUGGED OUTLET</p> <p> PIPING BREAK</p> <p> SQUARE FEET (SQ FT)</p> <p> FLOOR CLEANOUT</p> <p> FLOOR CLEANOUT IN YARDBOX</p> <p> FIRE SPRINKLER RISER</p> <p> CLEANOUT (CO)</p> <p> PIPING RISE OR DROP</p> <p> PIPING DOWN</p> <p> PIPING UP</p> <p> BRANCH CONNECTION</p> <p> BRANCH-BOTTOM CONNECTION</p> <p> FIRE LINE</p> <p> DRAINAGE ABOVE GROUND</p> <p> DRAINAGE BELOW GROUND</p> <p> SANITARY VENT</p> <p> GREASE WASTE</p> <p> DOMESTIC COLD WATER</p> <p> DOMESTIC HOT WATER</p> <p> DOMESTIC HOT WATER RETURN</p> <p> G (LPG)</p> <p> SD ——— STORM DRAINAGE ABOVE GROUND</p> <p> SD - - - STORM DRAINAGE BELOW GROUND</p> <p> OD ——— OVERFLOW DRAIN ABOVE GROUND</p> <p> CD ——— CONDENSATE DRAIN</p> <p> NPC ——— NON-POTABLE COLD WATER</p>
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ADDENDUM 2



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Drawing Title: PLUMBING GENERAL NOTES, ABBREVIATIONS & SYMBOLS

Reference Drawing: P0.1

Project:
 RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT

54401 Village Center Drive
 Idyllwild, CA 92549

Scale: NONE

Project No.
 2288004-000

Date: 10/27/11

DRAWING #:
 AD2-15

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PIPE MATERIAL SCHEDULE

1. BELOW GRADE WASTE , VENT , AND STORM DRAIN PIPING SHALL BE SERVICE WEIGHT HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS OR NO-HUB CAST IRON WITH M.G. COUPLINGS.
2. ABOVE GRADE WASTE , VENT , AND STORM DRAIN PIPING SHALL BE NO-HUB CAST IRON SOIL PIPE AND FITTINGS WITH STAINLESS STEEL COUPLINGS.
3. ABOVE GRADE WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER WATER TUBE WITH WROUGHT COPPER SOLDER JOINT FITTINGS AND NO-LEAD SOLDER. CONDENSATE DRAIN SHALL BE TYPE "M".
4. BELOW GRADE WATER PIPING SHALL BE TYPE "K" HARD DRAWN COPPER WATER TUBE WITH WROUGHT COPPER SOLDER JOINT FITTINGS.
5. ALL GAS (LPG) PIPING TWO (2) INCHES AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL PIPE, THREADED ENDS. FITTINGS SHALL BE 150 POUND BLACK MALLEABLE IRON, THREADED.
6. ALL GAS (9" WATER COLUMN AND LOWER PRESSURE) PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH PLAIN ENDS. FITTINGS SHALL BE STANDARD BUTT WELD FITTINGS.
7. ALL HOT WATER PIPING SHALL BE INSULATED WITH INSULATION HAVING A K-FACTOR OF 0.25.
8. CLEVIS OR SPLIT RING TYPE PIPE HANGERS. "PLUMBERS TAPE" OR WIRE ARE NOT PERMITTED.



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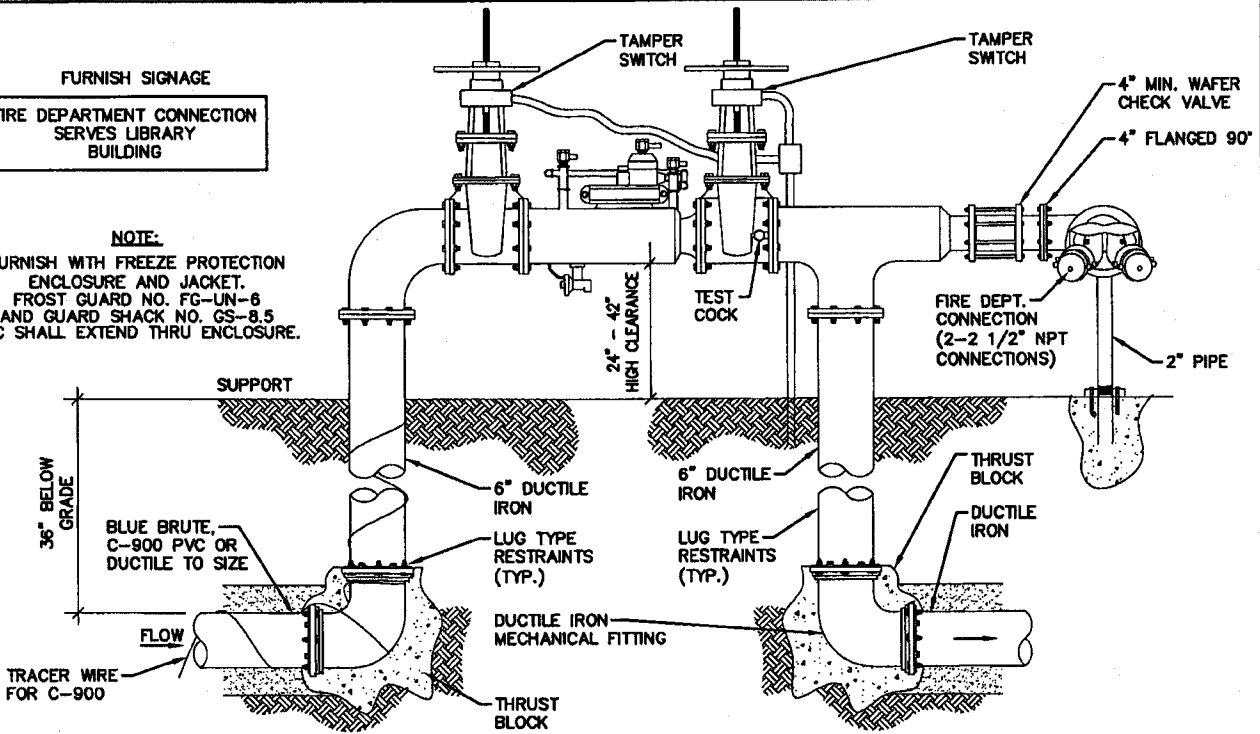
ADDENDUM 2

	Drawing Title: PLUMBING GENERAL NOTES, ABBREVIATIONS & SYMBOLS	
	Reference Drawing: P0.1	
	Project:	Scale: NONE
	RIVERSIDE COUNTY EDA	
	IDYLLWILD LIBRARY TENANT IMPROVEMENT	
		Project No. 2288004-000
54401 Village Center Drive Idyllwild, CA 92549		Date: 10/27/11
HMC Architects <small>3548 Concourse Street / Ontario, CA 91764 T 909 989 9979 / www.hmcarchitects.com</small>		DRAWING #: AD2-16

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FURNISH SIGNAGE
**FIRE DEPARTMENT CONNECTION
 SERVES LIBRARY
 BUILDING**

NOTE:
 FURNISH WITH FREEZE PROTECTION
 ENCLOSURE AND JACKET,
 FROST GUARD NO. FG-UN-6
 AND GUARD SHACK NO. GS-8,5
 FDC SHALL EXTEND THRU ENCLOSURE.



DETECTOR CHECK ASSEMBLY WITH FIRE DEPT. CONNECTION DETAIL

SCALE	11
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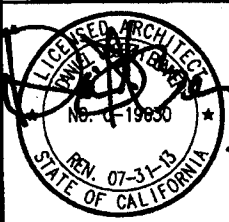


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ADDENDUM 2



Drawing Title: PLUMBING DETAILS

Reference Drawing: P0.3

Project:
 RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT

Scale: NONE

Project No.: 2288004-000

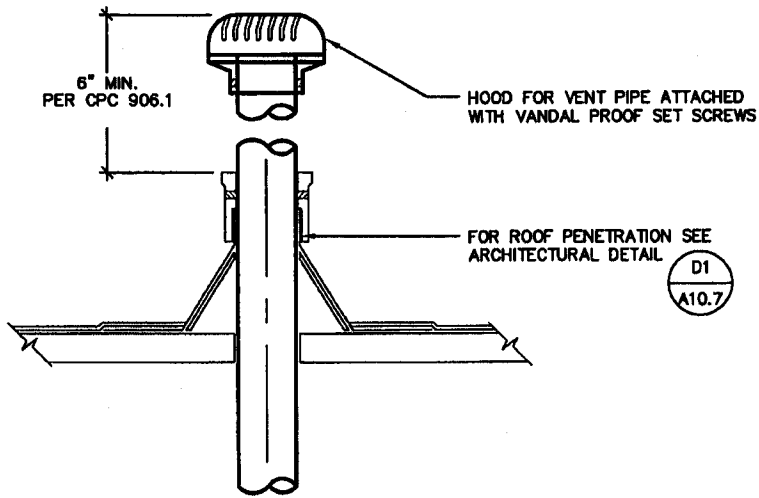
Date: 10/27/11

DRAWING #: AD2-17

Address: 54401 Village Center Drive
 Idyllwild, CA 92549

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VENT THRU ROOF DETAIL

SCALE	8
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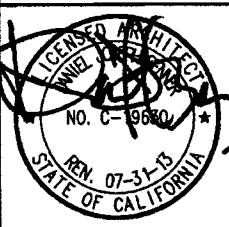


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ADDENDUM 2



Drawing Title: PLUMBING DETAILS

Reference Drawing: P0.3

Project:
 RIVERSIDE COUNTY EDA
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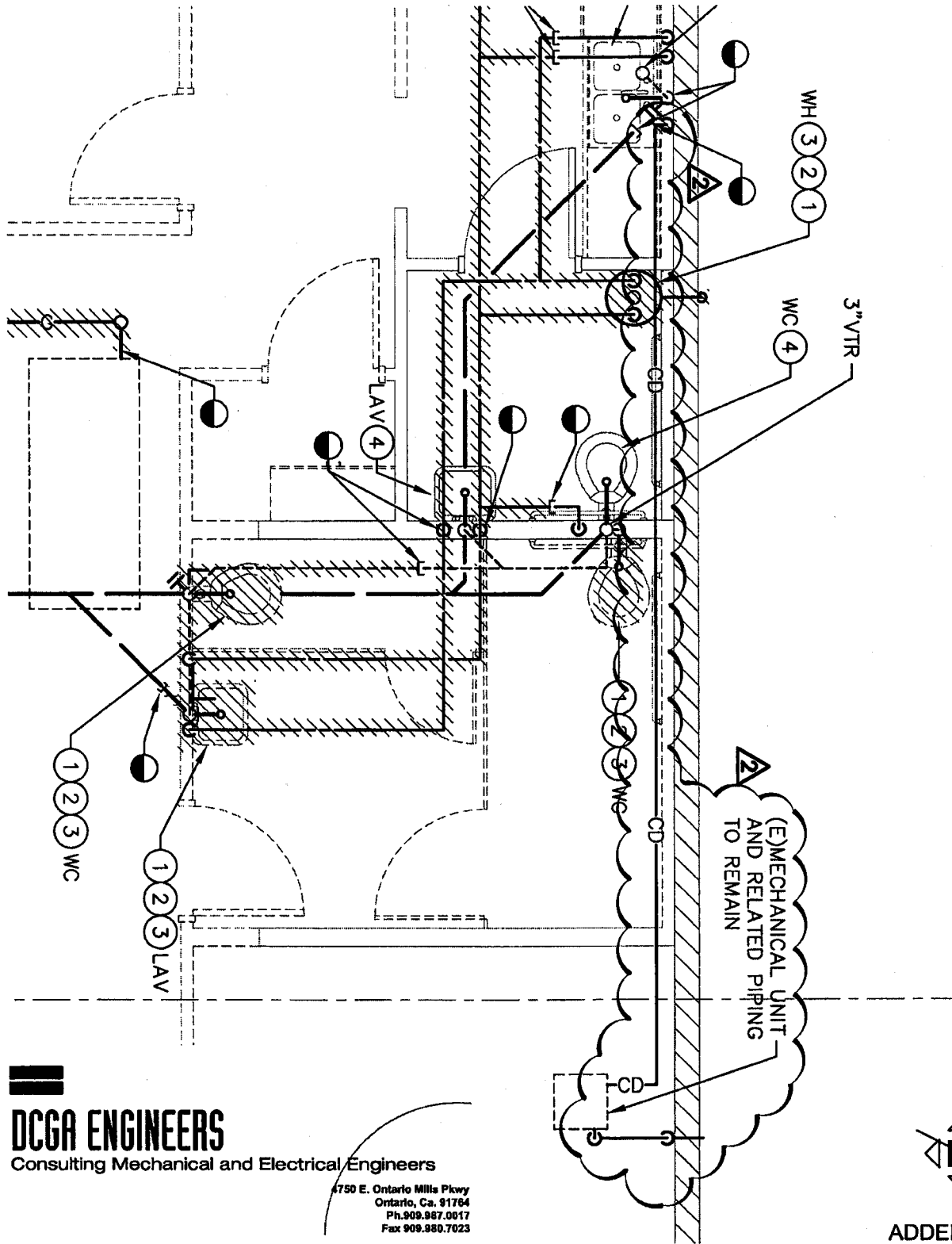
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Project No. 2288004-000
Date: 10/27/11

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DRAWING #:
 AD2-18

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(E)MECHANICAL UNIT AND RELATED PIPING TO REMAIN



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ADDENDUM 2

Drawing Title: PLUMBING DEMOLITION FLOOR PLAN

Reference Drawing: P2.0

Project:
RIVERSIDE COUNTY EDA
IDYLLWILD LIBRARY
TENANT IMPROVEMENT

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

Project No.
2288004-000

Date:
10/27/11

DRAWING #:
AD2-19



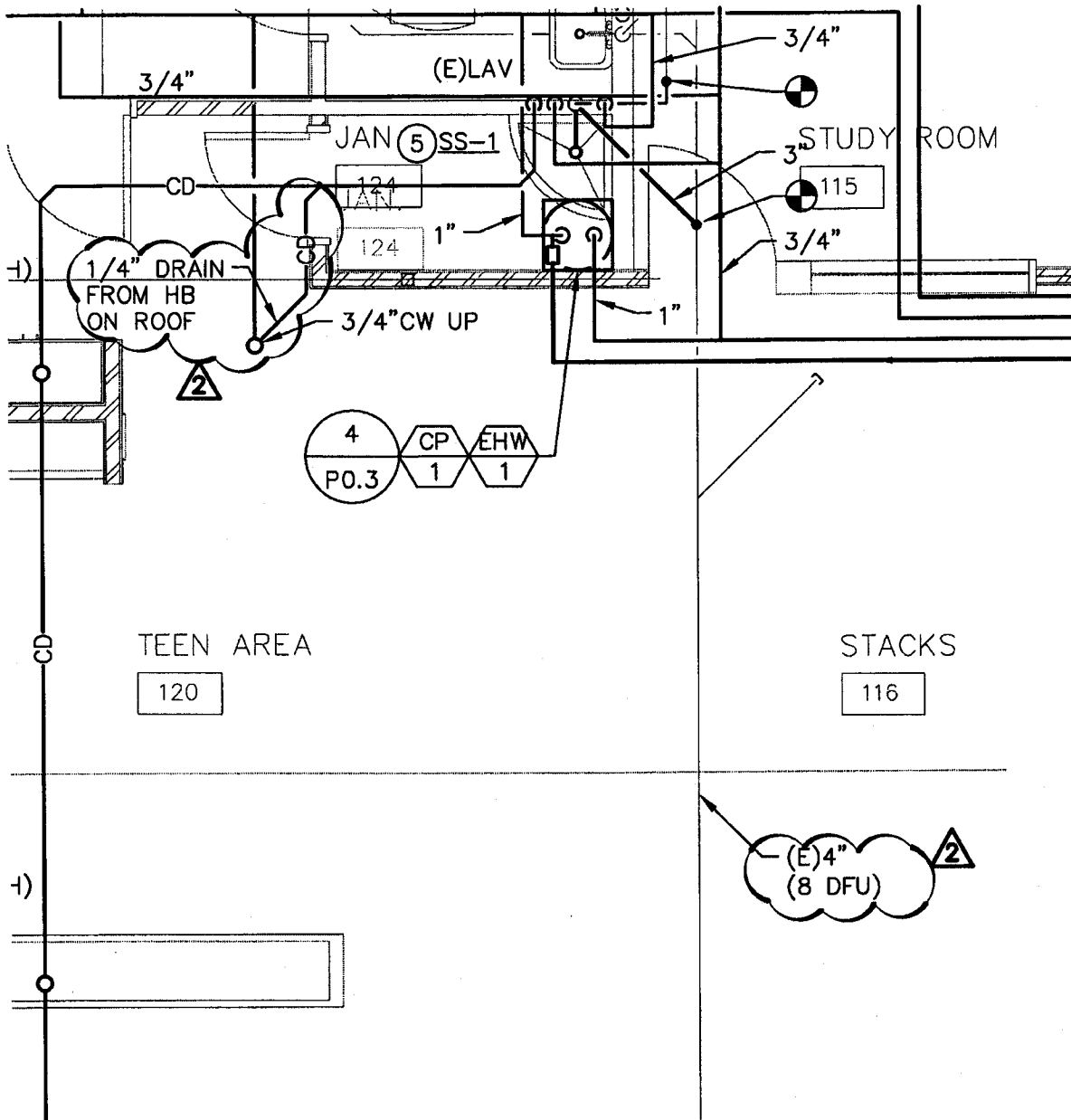
54401 Village Center Drive
Idyllwild, CA 92549



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ADDENDUM 2

Drawing Title: PLUMBING REMODEL FLOOR PLAN

Reference Drawing: P2.1

Project:
 RIVERSIDE COUNTY EDA
 IDYLLWILD LIBRARY
 TENANT IMPROVEMENT

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

Project No.
 2288004-000

Date: 10/27/11

DRAWING #:
 AD2-20

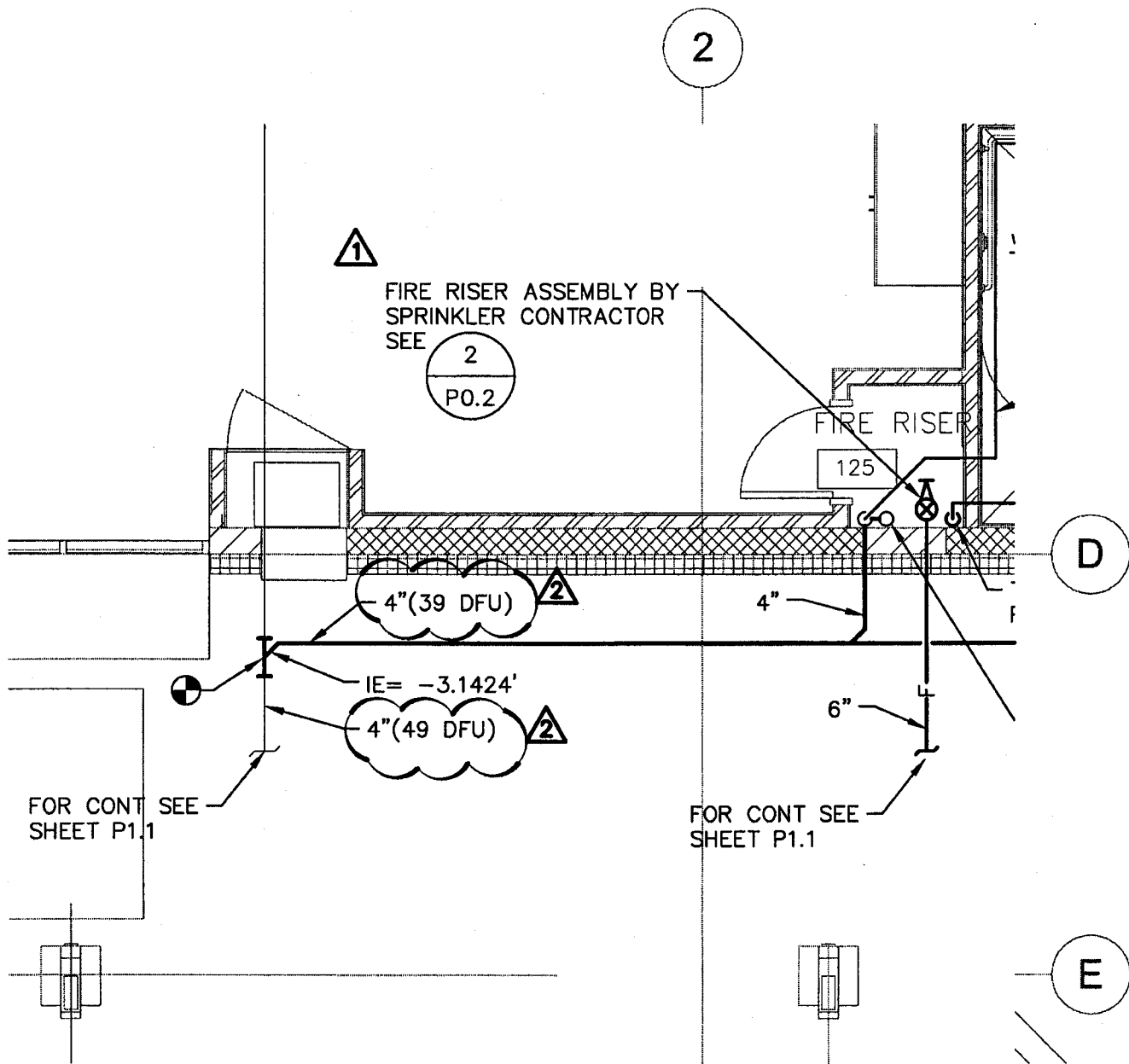


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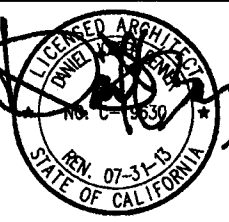
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ADDENDUM 2



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Drawing Title: PLUMBING REMODEL FLOOR PLAN

Reference Drawing: P2.1

Project:
RIVERSIDE COUNTY EDA
IDYLLWILD LIBRARY
TENANT IMPROVEMENT

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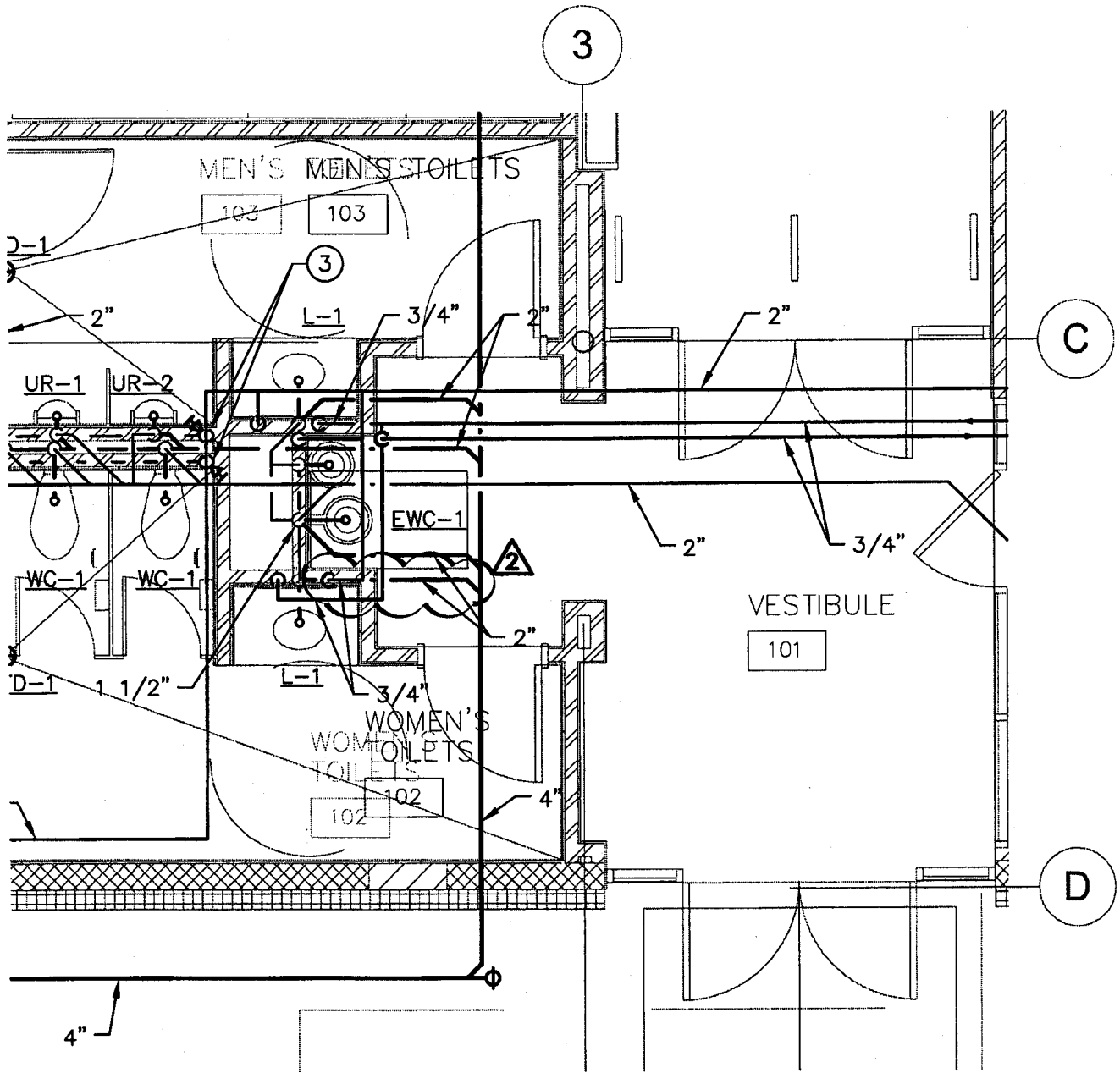
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Project No.
2288004-000

Date:
10/27/11

DRAWING #:
AD2-21

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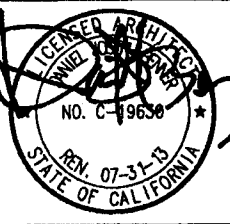
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ADDENDUM 2



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Drawing Title: PLUMBING REMODEL FLOOR PLAN

Reference Drawing: P2.1



Project:
 RIVERSIDE COUNTY EDA
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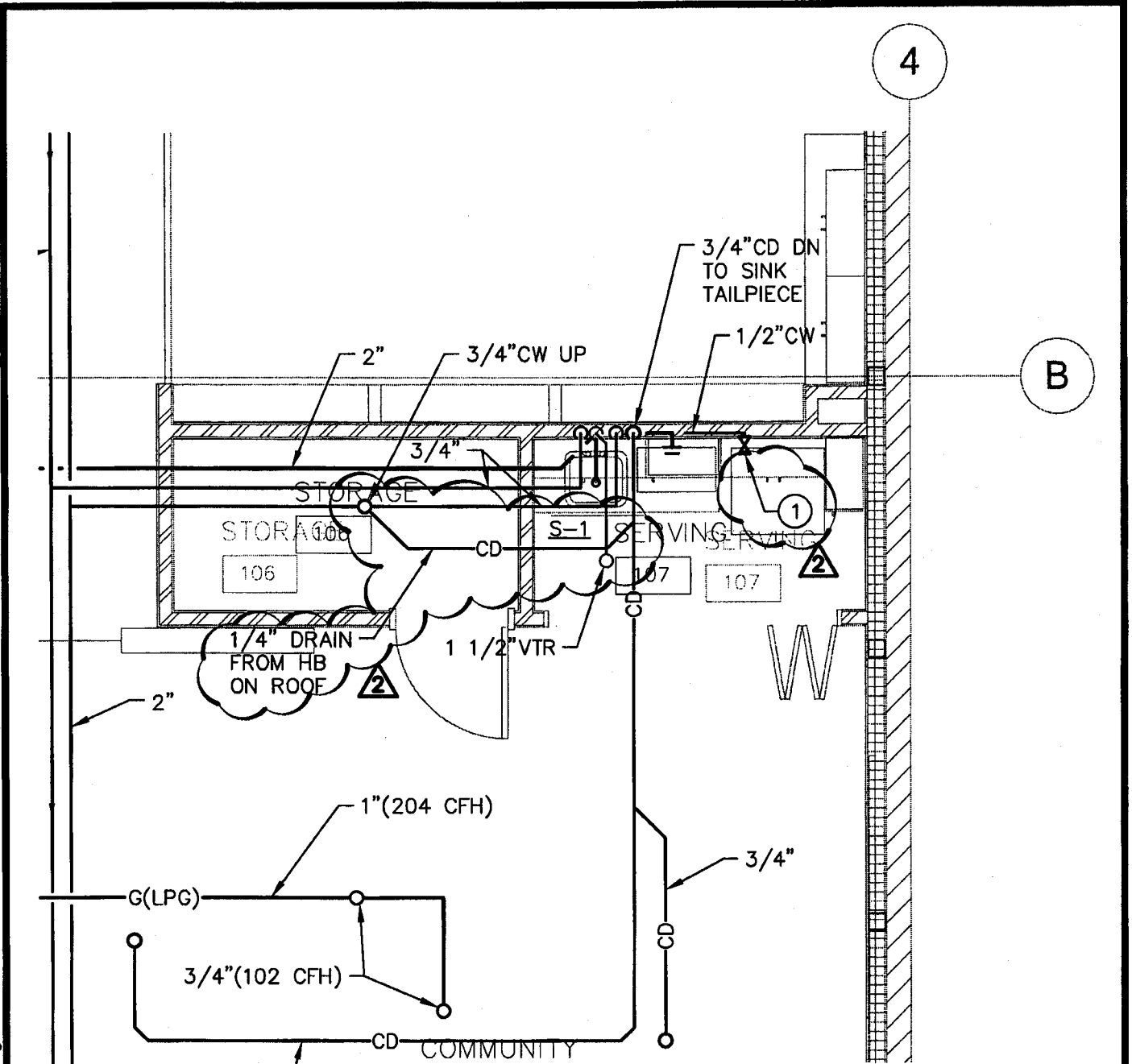
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Project No.
 2288004-000

Date: 10/27/11

DRAWING #:
 AD2-22

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ADDENDUM 2



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Drawing Title: PLUMBING REMODEL FLOOR PLAN

Reference Drawing: P2.1

Project:
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County of Riverside EDA
 ECONOMIC DEVELOPMENT AGENCY

54401 Village Center Drive
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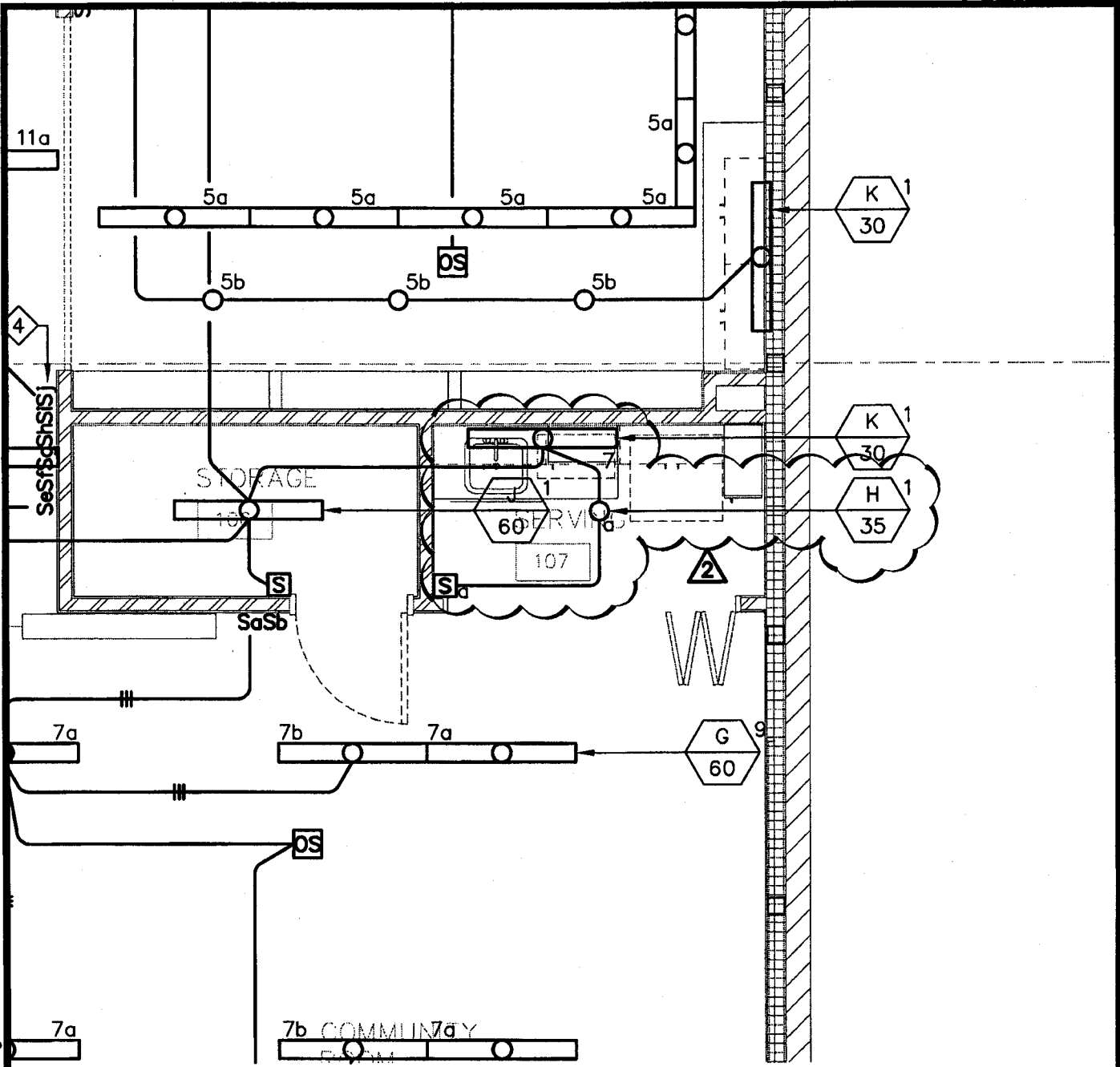
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Project No.
 2288004-000

Date:
 10/27/11

DRAWING #:
 AD2-23

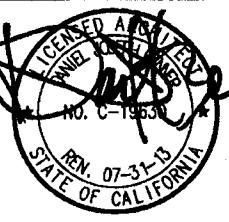
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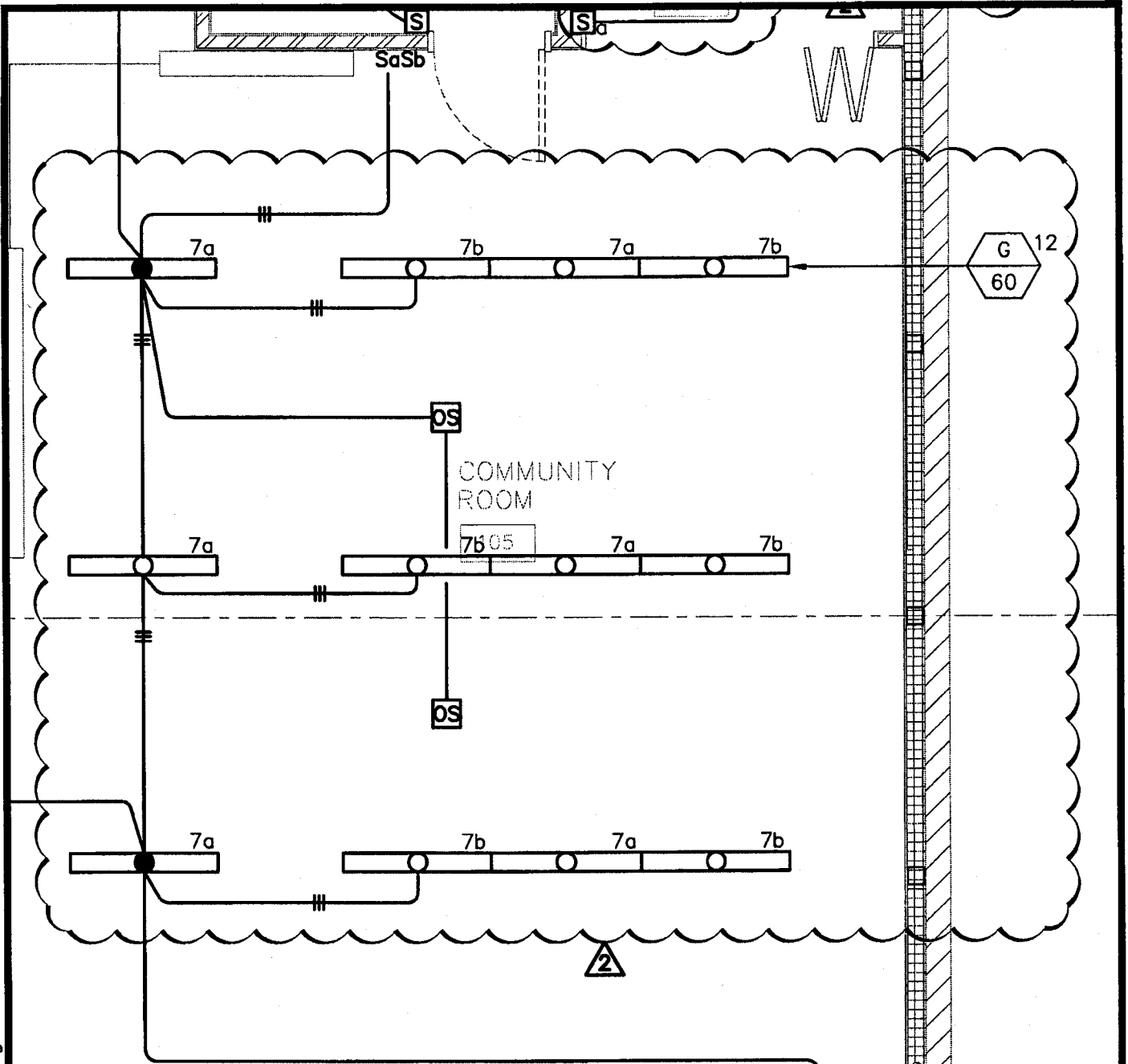
ADDENDUM 2



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Drawing Title: LIGHTING PLAN	
Reference Drawing: E2.1	
Project: RIVERSIDE COUNTY EDA IDYLLWILD LIBRARY TENANT IMPROVEMENT	Scale: 1/4"=1'-0" Project No. 2288004-000 Date: 10/27/11 DRAWING #: - AD2-24
54401 Village Center Drive Idyllwild, CA 92549	

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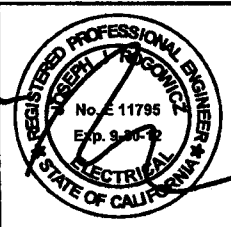
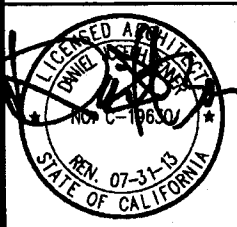


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ADDENDUM 2



Drawing Title: **LIGHTING PLAN**

Reference Drawing: **E2.1**

Project:
RIVERSIDE COUNTY EDA
IDYLLWILD LIBRARY
TENANT IMPROVEMENT

Scale:
 1/4" = 1'-0"
 Project No.
2288004-000

Date:
 10/27/11

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54401 Village Center Drive
 Idyllwild, CA 92549

DRAWING #:
- AD2-25

**HMC ARCHITECTS
3546 Concourse Street
Ontario, California 91764**

October 28, 2011

Idyllwild Library Project
Riverside County Economic Development Agency
Idyllwild, California
HMC # 2288004

ADDENDUM NO. 3

The following changes, additions, deletions or corrections shall become a part of the Contract Documents for the project named above and all other conditions shall remain the same. The bidders shall be responsible for transmitting this information to all affected subcontractors and suppliers prior to the closing of bids.

PREVIOUSLY ISSUED ADDENDUM NO. 1

Item No. AD-3.1: Reference Item No. AD-1.3, Paragraph 1.04.C

- A. Modify Alternate No. 1 to read as follows:

Alternate No. 1:

Corten Steel Siding: Provide Corten Steel Siding described in Specification Section 05 50 00-3.06K Weathering Steel Wall Panels, and Key Note 7.13 on Sheets A5.1 and A5.2, and referenced Details in lieu of Exterior Fiber Cement Siding described in Specification Section 07 46 46 and Drawings AD1-1, AD1-2, AD-1.3, AD-1.4, AD-1.5, and AD-1.6.

INSTRUCTIONS TO BIDDERS

Item No. AD-3.2: Reference Instructions to Bidders

- A. In Paragraph L modify as follows:

“The basis of award will be the qualified bidder with the lowest total of the Base Bid WITH COURSE OF CONSTRUCTION INSURANCE, without consideration of the prices on the additive or deductive alternates in accordance with Public Contract Code Section 10126c.1. Alternates may be awarded in any order after determination of the lowest responsible and responsive bidder.”

PROPOSAL

Item No. AD-3.3

Reference Contractor's Proposal

- A. Replace previously issued Contractor's Proposal with the attached.

HMC ARCHITECTS

By 

Christopher Lawrence, AIA, LEED/AP
Associate Principal

CONTRACTOR'S PROPOSAL

TO THE GOVERNING BOARD OF THE COUNTY OF RIVERSIDE:

Date: _____

Bidder: _____

The undersigned, having carefully examined the proposed site and the Plans and Specifications, the Notice Inviting Bids, the Instructions to Bidders, the Agreement Form, the Bond Forms, the General Conditions for the Construction of the Idyllwild Library Project, hereby proposes and agrees to furnish all tools, equipment, services, apparatus, facilities, transportation, labor and materials necessary to complete the work in strict conformity with the Plans and Specifications, including all work specified in Addenda numbered and dated:

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

For the total Base Bid _____ dollars (\$ _____), including all applicable taxes, permits, licenses, **AND Course of Construction Insurance.**

(Add or Deduct state which)

Alternate 1 \$ _____

Alternate 2 \$ _____

Alternate 3 \$ _____

Alternate 4 \$ _____

Alternate 5 \$ _____

And,
Cost of Contractor's Course of Construction Insurance _____ dollars (\$ _____)
and deductible \$ _____.

Bids must be submitted on all items. Failure to bid on all items may result in the bid being rejected as non-responsive. **The basis of award will be the qualified bidder with the lowest total of the Base Bid WITH COURSE OF CONSTRUCTION INSURANCE, without consideration of the prices on the additive or deductive alternates in accordance with Public Contract Code Section 10126c.1. Alternates may be awarded in any order after determination of the lowest responsible and responsive bidder.**