



City of Merced Statement of Services

Dept. Head Sig.	
Due Date:	May 6, 2022 @ 3:00 pm
Return to:	Michael R. Beltrann II, PE 578 W 18th Street Merced, CA 95340

Michael R. Beltrann II, PE
Name of City Contact

209 587 5670
Phone Ext.

Description of Services to be Provided:

Official Use Only

Provide a total cost to replace the roof at the Fire Department's Headquarters, Station 51, Located at 99 East 16th Street. Site visit is required for the bid to be accepted

See attached Specifications for dates, contact info for scheduling a site visit and all information pertaining to the roof replacement. As-Builts have also been attached to the Specifications as a reference. Total cost shall include all materials, labor, equipment, public convenience and safety, all checked items on this Statement of Service, and anything required to complete the roof replacement per attached Specifications

Request for Bid (RFB) # 03242022

Check Box If Applicable To Project:

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> License (1)* Type <u>C-39</u> | <input checked="" type="checkbox"/> Business License (2)* | <input checked="" type="checkbox"/> Bonds (6)* |
| <input checked="" type="checkbox"/> Insurance (13)* | <input checked="" type="checkbox"/> Workers' Compensation (14)* | <input checked="" type="checkbox"/> Prevailing Wages (15)* |

* Numbers correspond to paragraph numbers on the Terms and Conditions attached hereto.

Consultant:

Proposal/Quote

1. _____
2. _____
3. _____

Total Amount \$ 141,500.00

By completing and executing this document, Consultant agrees to be bound to the Terms and Conditions attached hereto and incorporated by reference, any additional terms and conditions found on the Purchase Order, and any other terms and conditions imposed by the City and attached hereto or in the Merced Municipal Code, and makes the City an offer for the above-mentioned services at the above-mentioned price. This agreement is not binding on the City until executed by the City Manager, or his/her designee, and a Purchase Order is issued to Consultant. Any terms and conditions proposed by Consultant shall not be binding upon the City unless expressly agreed to in writing by the designated representative of the City.

The individuals executing this contract represent and warrant that they have the legal capacity and authority to do so on behalf of their respective legal entities.

Consultants

Straight Edge Roofing Inc
5248 Sultana Ave.
Atwater, CA 95301

Brian Dyck

Print Name

Name and Address of Business Entity

Date: 05/05/2022

Signature

Phone No.: 209-262-8768

President

License No.: 839371

Position/Title

DIR Registration No.: 1000037317

Accepted by City of Merced

Official Use Only

City Manager or Designee

Date _____



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License No.: 839371

DIR Registration No.: 1000037317

Accepted by City of Merced

Official Use Only

City Manager or Designee

Date _____

**TERMS AND CONDITIONS FOR
SERVICES AND
PUBLIC WORKS CONTRACTS**

THESE TERMS AND CONDITIONS, (“Terms and Conditions”) are made and entered into on the date shown on the attached Statement of Services, by and between the City of Merced, a California Charter Municipal Corporation, (“City”) and the Vendor, Consultant, or Person, (“Consultant”) shown on the Statement of Services. These Terms and Conditions, Statement of Services, and Purchase Order shall herein be collectively referred to as the “Agreement.” Any words that Consultant adds to the Agreement or any form that Consultant uses in the course of business will not change or supersede these Terms and Conditions. The City must agree, in writing, to any change in terms and conditions. The City’s acceptance of any work or services is not an acceptance of Consultant’s conflicting terms and conditions should such exist.

1. CONSULTANT QUALIFICATIONS AND STANDARD OF WORK. Consultant warrants that it is fully qualified to perform the work, and holds all applicable licenses, permits, and other necessary qualifications. Consultant shall perform and complete in a good and workmanlike manner all the work described in this Agreement to the plans and specifications provided to the Consultant by City, and shall do everything required by these Terms and Conditions and other contract documents attached hereto.

Consultant shall possess a valid C-39 Special California Consultant’s license at the time of bid submission for the duration of the Agreement. (Applies only if marked on the Statement of Services Form).

2. CITY BUSINESS LICENSE – (Applies only if marked on the Statement of Services Form). Consultant agrees that if its business is based within the City limits or it enters into the City to conduct business then a current City of Merced business license is required. Failure to comply with this requirement could result in criminal penalties.

3. CONSULTANT’S SERVICES. Consultant shall, at its own cost and expense and as authorized and directed by the City, provide the personnel, supervision, equipment, supplies, services, administration, transportation, and other needs to complete the work described in the Statement of Services and the City’s Purchase Order, which is hereby incorporated and made a part of these Terms and Conditions, within the agreed upon time schedule and budget. The Consultant is

responsible for obtaining and administering the employment of personnel having the training, experience, licenses, and other qualifications necessary for the work assigned. All project-related costs shall be assumed and paid by the Consultant. These Terms and Conditions and Purchase Order provide the exclusive means of payment and reimbursement of costs to the Consultant by the City.

Such work shall include the following:

a. The Consultant shall perform the services as described in the Statement of Services and Purchase Order in full compliance with these Terms and Conditions and adopted City policies and guidelines as provided to the Consultant, and in compliance with all other applicable laws and regulations.

b. The Consultant shall perform all services and prepare all documents in professional form, exercising the special experience, skill, and education required for such service.

c. The Consultant shall provide finished documents of presentation quality that evidence the highest standards of investigation, professional review, public participation, and presentation.

4. SCHEDULE OF PERFORMANCE AND BUDGET. The Consultant shall satisfactorily perform the services described in the Statement of Services and Purchase Order within the Time Schedule stated or agreed to between the Consultant and the City. The Consultant shall review the remaining work and remaining budget at least monthly (or at such other interval as directed by City staff) and shall confirm that completion may be expected within the budget approved or, in the alternative, give immediate notice when it shall first appear that the approved budget will not be sufficient, together with an explanation for any projected insufficiency.

The Consultant shall immediately inform the City of any problems, obstructions, or deviations of which the Consultant becomes aware affecting Consultant's ability to complete the project in a timely, efficient, and competent manner.

5. RISK OF LOSS PRIOR TO FINAL ACCEPTANCE. Risk of loss from total or partial destruction of the work, prior to final acceptance, shall be borne by Consultant regardless of the cause. Consultant shall repair or replace such damages or destroyed work to its prior undamaged condition before being

entitled to additional progress payments or final payment. Total or partial destruction or damage shall not excuse Consultant from completion of work.

6. **BONDS – (Applies only if marked on the Statement of Services Form).**

a. Consultant shall, within fifteen (15) days of contract award and before performance of the work, file a Performance Bond, with and approved by the City, in the amount of 100 percent (100%) of the contract price. The Performance Bond shall remain in effect until recordation of the Notice of Completion, or if a Notice of Completion is not recorded by the City, for sixty (60) days after completion of the work.

b. All Bonds shall be furnished by the Consultant at its own cost and expense. All bonds shall be executed by such sureties as are admitted to transact surety insurance in the State of California. Should an objection as to the sufficiency of an admitted surety on a bond be made, California Code of Civil Procedure Section 995.660 shall apply.

7. **INDEPENDENT CONSULTANT.** It is expressly understood that Consultant is an independent contractor and that its employees shall not be employees of or have any contractual relationship with the City. Consultant shall be responsible for the payment of all taxes, workers' compensation insurance and unemployment insurance. Should Consultant desire any insurance protection, the Consultant is to acquire same at its expense.

In the event Consultant or any employee, agent, or subcontractor of Consultant providing services under this Agreement is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be eligible for enrollment in PERS as an employee of the City, Consultant shall indemnify, protect, defend, and hold harmless the City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.

8. **COMPENSATION.** Payment by the City to the Consultant for actual services rendered shall be made upon presentation of an invoice detailing services performed.

9. TERMINATION FOR CONVENIENCE OF CITY. The City may terminate the Agreement any time by mailing via certified U.S. Mail a notice in writing to Consultant that the Agreement is terminated. Alternatively, City may send said notice by facsimile with confirming notice provided via U.S. Mail. Said Agreement shall be deemed terminated as of Consultant's receipt of said notice, and no further work shall be performed by Consultant. If the Agreement is so terminated, the Consultant shall be paid for that percentage of the phase of work actually completed, based on a pro rata portion of the compensation for said phase satisfactorily completed at the time the notice of termination is received.

10. ASSIGNABILITY OF AGREEMENT. The Agreement contemplates personal performance by the Consultant and is based upon a determination of its unique personal competence and experience and upon its specialized personal knowledge. Assignments of any or all rights, duties or obligations of the Consultant under the Agreement will be permitted only with the express written consent of the City.

11. RECORDS. It is understood and agreed that all plans, studies, specifications, data magnetically or otherwise recorded on computer or computer diskettes, records, files, reports, etc., in possession of the Consultant relating to the matters covered by the Agreement shall be the property of the City, and Consultant shall deliver the same to the City upon termination of the Agreement. It is understood and agreed that the documents and other materials, including, but not limited to, those set forth hereinabove, prepared pursuant to the Agreement are prepared specifically for the City and are not necessarily suitable for any future or other use.

12. INDEMNITY. Consultant shall indemnify, protect, defend (with legal counsel selected by the City), save and hold City, its officers, employees, and agents, harmless from any and all claims or causes of action for death or injury to persons, or damage to property resulting from intentional or negligent acts, errors, or omissions of Consultant or Consultant's officers, employees, volunteers, and agents during performance of this Agreement, or from any violation of any federal, state, or municipal law or ordinance, to the extent caused, in whole or in part, by the willful misconduct, negligent acts, or omissions of Consultant or its employees, subcontractors, or agents, or by the quality or character of Consultant's work, or resulting from the negligence of the City, its officers, employees, volunteers and agents, except for loss caused by the sole negligence or willful misconduct of the City or its officers, employees, volunteers or agents. It is understood that the duty of Consultant to indemnify and hold harmless includes the duty to defend as set

forth in Section 2778 of the California Civil Code. Acceptance by City of insurance certificates and endorsements required under this Agreement does not relieve Consultant from liability under this indemnification and hold harmless clause. This indemnification and hold harmless clause shall survive the termination of this Agreement and shall apply to any damages or claims for damages whether or not such insurance policies shall have been determined to apply. By execution of this Agreement, Consultant acknowledges and agrees to the provisions of this Section and that it is a material element of consideration.

13. **INSURANCE – (Applies only if marked on the Statement of Services Form)**. During the term of the Agreement, Consultant shall maintain in full force and effect at its own cost and expense, the following insurance coverage:

- a. General Liability.
 - (i) Consultant shall obtain and keep in full force and effect general liability coverage at least as broad as ISO commercial general liability coverage occurrence Form CG 0001.
 - (ii) Consultant shall maintain limits of no less than One Million Dollars (\$1,000,000) per occurrence for bodily injury, personal injury and property damage.
 - (iii) The City, its officers, employees, volunteers and agents are to be named as additional insureds under the policy, as respects liability arising out of work or operations performed by or on behalf of the Consultant.
 - (iv) The policy shall stipulate that this insurance will operate as primary insurance for work performed by Consultant and its sub-contractors, and that any other insurance or self insurance maintained by City or other named insureds shall be excess and non-contributory.
 - (v) Consultant shall maintain its commercial general liability coverage for three (3) years after completion of the work and shall add an additional insured endorsement form acceptable to the City naming the City of Merced, its officers, employees, agents and volunteers for each year thereafter for at least three (3) years after completion of the work. Copies of the annual

renewal and additional insured endorsement form shall be sent to the City within thirty (30) days of the annual renewal.

b. Automobile Insurance.

- (i) Consultant shall obtain and keep in full force and effect an automobile policy of at least One Million Dollars (\$1,000,000) per accident for bodily injury and property damage.
- (ii) The City, its officers, employees, volunteers and agents are to be named as additional insureds under the policy, as respects automobiles owned, leased, hired or borrowed by the Consultant.
- (iii) The policy shall stipulate that this insurance will operate as primary insurance for work performed by Consultant and its sub-contractors, and that any other insurance or self insurance maintained by City or other named insureds shall be excess and non-contributory.

c. Professional Liability Insurance. Consultant shall carry professional liability insurance appropriate to Consultant's profession in the minimum amount of One Million Dollars (\$1,000,000). Architects and engineers' coverage is to be endorsed to include contractual liability.

d. Qualifications of Insurer. The insurance shall be provided by an acceptable insurance provider, as determined by City, which satisfies all of the following minimum requirements:

- (i) An insurance carrier admitted to do business in California and maintaining an agent for service of process within this State; and,
- (ii) An insurance carrier with a current A.M. Best Rating of A:VII or better (except for workers' compensation provided through the California State Compensation Fund).

e. Certificate of Insurance. Consultant shall complete and file with the City prior to engaging in any operation or activity set forth in the Agreement, certificates of insurance evidencing coverage as set forth above and which shall

provide that no cancellation or expiration by the insurance company will be made during the term of this Agreement, without thirty (30) days written notice to City prior to the effective date of such cancellation—including cancellation for nonpayment of premium. In addition to any other remedies City may have, City reserves the right to withhold payment if Consultant's insurance policies are not current.

14. **WORKERS COMPENSATION INSURANCE – (Applies Only If Marked On The Statement Of Services Form)**. Full workers' compensation insurance shall be provided with a limit of at least One Hundred Thousand Dollars (\$100,000) for any one person and as required by law, including Employer's Liability limits of \$1,000,000.00 per accident. The policy shall be endorsed to waive the insurer's subrogation rights against the City.

15. **PREVAILING WAGES – (Applies only if marked on the Statement of Services Form)**.

a. A determination of the general prevailing rates per diem wages and holiday and overtime work where the work is performed is available for review upon request at the City of Merced, located at 678 West 18th Street, Merced, California 95340. Consultant and subcontractors will not pay less than the prevailing rates of wages. Consultant will post one copy of the prevailing rates of wages at the job site.

b. Consultant shall forfeit as penalty to City the sum of Fifty Dollars (\$50.00) for each calendar day or portion thereof, and for each worker paid less than the prevailing rates under the Agreement.

16. **TRAVEL AND SUBSISTENCE PAYMENTS – (Applies only if Prevailing Wages is marked on the Statement of Services Form)**. Travel and subsistence payments shall be paid to each worker as defined in the applicable collective bargaining agreements filed with the Department of Industrial Relations for the particular craft, classification or type of work.

17. **HOURS OF WORK.**

a. Eight (8) hours of labor constitutes a legal day's work. Workers shall be paid at a rate of one and one-half times (1 ½) the basic rate of pay for work in excess of eight (8) hours during a calendar day or forty (40) hours during a calendar week for the foregoing hours.

b. Consultant shall keep and make available an accurate record showing the name of each worker, and hours worked each day and each week by each worker.

c. As a penalty to the City, Consultant shall forfeit Twenty Five Dollars (\$25.00) for each worker, including subcontractor's workers, for each calendar day during which the worker is required or permitted to work more than eight (8) hours in one (1) calendar day and forty (40) hours in any one (1) calendar week in violation of Labor Code Sections 1810 through 1815.

18. NOTICES. Notice may be given by personal delivery or by placing the notice in a properly addressed envelope and depositing that envelope in the United States mail with first-class postage paid.

19. PROHIBITION AGAINST DISCRIMINATION. In the performance of the Agreement the Consultant will not refuse or fail to hire or employ any qualified person, or bar or discharge from employment any person, or discriminate against any person with respect to the compensation, terms, conditions or privileges of employment, because of such person's race, color, creed, national origin, ancestry, sex or age.

20. PERMITS AND LICENSES.

a. Consultant shall apply for and procure permits and licenses necessary for the work.

b. Consultant shall give notices necessary and incidental to the due and lawful prosecution of the work and shall comply duly with the terms and conditions of permits and licenses.

c. Consultant shall pay charges and fees in connection with permits and licenses.

21. VENUE. The Agreement and all matters relating to it shall be governed by the laws of the State of California and any action brought relating to the Agreement shall be held exclusively in a state court in the County of Merced.

22. WAIVER. In the event that either City or Consultant shall at any time or times waive any breach of the Agreement by the other, such waiver shall not constitute a waiver of any other or succeeding breach of the Agreement, whether of

the same or any other covenant, condition or obligation. Waiver shall not be deemed effective until and unless signed by the waiving party.

23. CONFORMANCE TO APPLICABLE LAWS. Consultant shall comply with its standard of care regarding all applicable Federal, State, and municipal laws, rules and ordinances. No discrimination shall be made by Consultant in the employment of persons to work under the Agreement because of race, color, national origin, ancestry, disability, sex or religion of such person.

Consultant hereby promises and agrees to comply with all of the provisions of the Federal Immigration and Nationality Act (8 U.S.C.A. 1101 *et seq.*), as amended; and in connection therewith, shall not employ unauthorized aliens as defined therein. Should Consultant so employ such unauthorized aliens for the performance of work and/or services covered by the Agreement, and should any agency or instrumentality of the federal or state government, including the courts, impose sanctions against the City for such use of unauthorized aliens, Consultant hereby agrees to, and shall, reimburse City for the cost of all such sanctions imposed, together with any and all costs, including attorneys' fees, incurred by the City in connection therewith.

CITY OF MERCED
DEPARTMENT OF PUBLIC WORKS
(ENGINEERING PROJECTS AND STANDARDS)

CALIFORNIA

SPECIAL PROVISIONS

FOR

FIRE STATION 51 – ROOF REPLACEMENT

Request for Bids (RFB)
03242022

Matthew Serratto – Mayor

Kevin Blake – Mayor Pro-Tempore

Sarah Boyle – Council Member

Fernando Echevarria – Council Member

Jesse F. Ornelas – Council Member

Bertha A. Perez – Council Member

Delray Shelton – Council Member

Stephanie R. Dietz – City Manager

Kim Flores – Interim City Attorney

Michael R. Beltran II, PE – City Engineer

SITE WALK DAYS:
BID DUE BY:

April 18, 19, 24 or 25, 2022
May 6, 2022 at 3:00 PM

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**STANDARD SPECIFICATIONS AND
AMENDMENTS THERETO**

AMENDMENTS TO THE STANDARD SPECIFICATIONS

DEFINITIONS

<u>Agency.</u>	The City of Merced, California.
<u>A.S.A.</u>	American Standard Association.
<u>Board.</u>	The City Council of the City of Merced.
<u>Building Code.</u>	California Building Code, current Edition.
<u>City Engineer.</u>	City Engineer of the City of Merced.
<u>City Standards.</u>	The supplementary reference standards referring to the "City of Merced Standard Designs of Common Engineering Structures," latest edition.
<u>Department.</u>	The City of Merced.
<u>Electrical Code.</u>	California Electrical Code current Edition.
<u>Engineer.</u>	City Engineer of the City of Merced acting either directly or through properly authorized agents, such agents, acting within the scope of the particular duties delegated to them.
<u>F.H.W.A.</u>	Federal Highway Administration.
<u>M.E.T.S</u>	Materials Engineering and testing Services
<u>N.E.M.A.</u>	National Electrical Manufacturing Association.
<u>Owner.</u>	The City of Merced.
<u>Plumbing Code.</u>	California Plumbing and Mechanical Code current Edition.
<u>Project Specifications.</u>	The direction, provisions and requirements contained herein.
<u>S.D.S.</u>	Safety Data Sheet
<u>S.O.S.</u>	Statement of Service

<u>Special Provisions.</u>	Any provisions, which supplement, amend or modify the Standard Specifications. Special Provisions consist of two categories: (1) Amendments to the Standard Specifications. (2) Special Provisions for Fire Station 51 Roof Repair.
<u>State Standard Plans.</u>	The supplementary reference plans referring to the "State of California, Business, Transportation and Housing Agency, Department of Transportation, State Standard Plans, May 2018," as amended.
<u>Standard Plans.</u>	The plans entitled, "Standard Plans for Public Works Construction," latest Edition.
<u>Standard Specifications.</u>	The specifications entitled, "Standard Specifications for Public Works Construction," latest Edition, in its entirety, except as amended herein.
<u>State.</u>	The State of California.
<u>State Specifications.</u>	The supplementary reference specifications referring to the technical provisions only of the "State of California, Department of Transportation, Standard Specifications, May 2018," as amended.
<u>Traffic Lane.</u>	That portion of a traveled way for the movement of a single line of vehicles.
<u>Traveled Way.</u>	That portion of the roadway for the movement of vehicles, exclusive of shoulders or auxiliary lanes.
<u>Work.</u>	All the work specified, indicated, shown, or implied in the plans and/or contract to construct the improvement, including all alterations, amendments or extensions thereto made by contract change order or other written orders of the Engineer.

SPECIAL PROVISIONS

FIRE STATION 51 ROOF REPLACEMENT

1. SCOPE OF WORK

The work to be done consists, in general, of the removal and disposal of the old existing roof (test for asbestos) and related resulting material and debris including gutters and downspouts, and installation of: underlayment of 30lb felt or better, composition shingles (30-yr min manufacture warranty), flashing painted to match roof, painted drip edges, continuous ridge vent on peak with finished ridge cap, fabric reinforced coating system (or equivalent) on the flat roof in AC well, and install new seamless gutters and downspouts, all painted to match roof.

Note: As-Builts for Fire Station 51 has been attached in the Appendices for reference.

Such other items or details, not mentioned above, standard specifications, or these special provisions shall be performed, placed, constructed, or installed.

2. PERFORMANCE

The Contractor shall furnish all labor, materials, tools, equipment, incidentals, and do all work described in these Special Provisions.

2. PERMITS

Contractor shall obtain a Building Permit for the roof replacement and must schedule inspections daily. Building permit fee will be at the contractor's expense and shall be part of the overall lump sum bid.

Contractor to also obtain a sign off from San Joaquin Air Pollution Quality Control District. This is a requirement for all commercial re-roofs.

3. INSPECTION OF SITE

The Contractor shall inspect the work site and note all existing conditions before submitting a bid for this project. A mandatory site walk may be scheduled per Section 4 below.

4. MANDATORY WALK

A site visit is mandatory for acceptance of bid. Contractor must coordinate, with one of the below dates, a site visit through the Merced Fire Department.

Contact Information:

Shawn Luce: P: 209-628-6000

E: LuceS@cityofmerced.org

Meeting Dates:

- Monday April 18, 2022
- Tuesday April 19, 2022
- Sunday April 24, 2022
- Monday April 25, 2022

5. CONSTRUCTION SCHEDULE

the Contractor shall submit to the Engineer for approval its proposed construction schedule. The construction schedule shall be in the form of a tabulation, chart, or graph and shall be in sufficient detail to show the chronological relationship of all activities of the project including, but not limited to, estimated starting and completion dates of various activities, procurement of materials, and scheduling of equipment.

The time of completion for the entire project work shall be **25 working days** from the agreed upon starting date.

6. ROOF REPLACEMENT

The Contractor shall furnish and install all items required by this section to provide a complete and watertight roof.

PART 1 - GENERAL

1.01 SCOPE

- A. The demolition, removal and disposal of the existing roofing material including shingles, underlayment's, flashings, gutters, downspouts, and all other related material required for a new complete roof system.
- B. The work required under this section consists of all asphalt shingle roofing items necessary and required to complete the work as indicated in the Specifications.
- C. The Contractor shall comply with the requirements of OSHA's Hazard Communications Standard including hazardous materials and employee training.
- D. The Contractor shall provide all items, articles, materials, operations, or methods listed, mentioned, or specified herein, including all labor, materials, equipment, and incidentals necessary and required for their completion.
- E. All work shall be per current applicable codes and per manufactures specification.
- F. Provide proof for compliance with Cool Roof requirements set forth by the California Energy Commissions, Part 6 of Title 24
- G. Provide proof of acceptance from San Joaquin Air Pollution Quality Control District sign off.

1.02 WORK INCLUDED:

- A. Without restricting the volume or generality of the above "Scope" the work to be performed under this section shall include, but is not limited to the following:
1. Work shall include the following:
 - a. Verify roof material is asbestos free,
Note: If asbestos is discovered, stop work immediately and contact the Cities Chief Building Official
 - b. Remove all existing tar and gravel and all other roof related materials down to the roof deck. Contractor shall remove all demolition materials from the jobsite,
 - c. Replace all damaged, rotted, or defective wood board/plywood roof sheathing,
 - d. Installation of new asphalt composition shingle roofing (including continuous ridge vents and cap) with a 30-yr manufacturer's warranty over 2 layers of new 30# felt roofing underlayment,
 - e. Installation of all new 26-gauge galvanized iron sheet metal flashings, and related flashings. Paint to match existing,
 - f. Installation of all new four-pound sheet lead flashings at pipe penetrations and plumbing vent pipes,
 - g.
 - h. Installation of new 3-inch 28-gauge galvanized steel drip edges, painted to match roof,
 - i. Install fabric reinforced coating system (or equivalent) on flat roof in AC well, and,
 - j. Install new continuous (seamless) 28-gauge galvanized steel gutters and downspouts. Paint and style to match existing.

1.03 SUBMITTALS:

- A. Roofing contractor shall submit the following to the City Engineer for approval:
1. **Manufacturer's Data:** Submit a digital copy of specifications, installation instructions and general recommendations from the material(s) manufacturer for each type of roofing product required. Submit color catalog showing manufacturer's standard colors. Include manufacturer's data substantiating that the materials comply with the contract documents.

2. Asphalt Shingles: Three (3) shingles.
3. Certificate of Compliance, SDS and METS for all paints and applications.

1.04 QUALITY ASSURANCE:

- A. Fire Resistance: Provide shingles and accessory materials which have been tested, listed, and labeled by UL for the following Class or Rating roofing:

Provide Class "A" rating, except as otherwise indicated.

- B. Installer Qualifications: Application shall be performed by a roofing contractor with not less than five (5) years' experience as a licensed roofing contractor in the State of California.

1.05 REGULATORY REQUIREMENTS

- A. Conform to all applicable state and local codes,
- B. Conform to all manufactures specifications for material installed,
- C. San Juaquin Air Pollution Control District sign off for demolition of old roofing,
- D. Roofing shall meet "COOL" roof requirements set forth by the California Energy Commissions, Part 6 of Title 24.

1.06 DELIVERY, STORAGE AND HANDLING:

- A. Furnish material wrapped in manufacturer's original packaging.
- B. Store materials separated from the ground and in a dry location, protected until installation in accordance with manufacturer's instructions. Store on a flat surface, to a height 4" off the ground. Site must be properly secured at all times during the project.

1.08 PRODUCT

- A. Substrate: Before starting installation work complete substrate installation including roof penetrations. Substrate shall be smooth, dry, securely anchored, and free of construction debris.
- B. Follow manufacturer's instructions regarding acceptable weather conditions for installation of all roofing products.

- C. The contractor and his crews shall comply with current safety standards set forth by the Occupational Safety & Health Administration (OSHA) at all times.

1.09 MANUFACTURER WARRANTY:

- A. Submit manufacturer's standard warranty guaranteeing to correct failures in product which may occur during the warranty period, without reducing or otherwise limiting any other rights to correction which the school district may have under the contract documents.

- 1. **WARRANTY PERIOD: 30 YEARS**

1.10 CONTRACTOR GUARANTEE:

- A. Guarantee by Contractor

Contractor shall present to Owner a written guarantee upon completion and acceptance of the building. The guarantee shall be signed by the Roofing Contractor and shall stipulate that he will maintain and repair the roof and replace any defective materials, which would cause the roof to leak for a period of five (2) years after the date of acceptance of the roofing work.

- B. Guarantee by Manufacturer

The roofing installation shall be inspected during application and upon completion by a representative of the manufacturer supplying the roofing materials and a ten-year roofing system guarantee shall be furnished by the manufacturer. The guarantee shall have an unlimited penal liability. The roofing contractor shall be responsible for notifying the representative of the manufacturer to arrange for the required inspections. The guarantee shall be provided at the expense of the contractor.

PART 2 - PRODUCTS

2.01 MANUFACTURERS:

- A. Asphalt Shingles:

- 1. Provide products complying with requirements of the contract documents and made by one of the following:

**CERTAINTEED – LANDMARK 30
Or APPROVED EQUAL**

B. Fiber Reinforced System:

See Section 3.03 "Installation" part "H" for suggested products.

2.02 MATERIALS:

A. Asphalt Shingles:

1. 30-yr manufacture warranty minimum.
2. Shingles: Mineral-surfaced, self-sealing, glass fiber base.
3. ASTM D 3018, Type I, and ASTM D 3462.
4. Fire resistance: Class A; UL 790
5. Wind resistance: Passes UL 997
6. Type: Square, Laminate shingle
7. Color: Selected by the City of Merced after contract award, from manufacturer's standard colors.
8. Provide factory-prefabricated hip, ridge shingles and cap, which match field shingles.

2.03 ACCESSORY MATERIALS:

A. Underlayment: Two-layer underlayment of #30 or two layers of #15 nonperforated organic asphalt saturated roofing felt, 36-inch-wide rolls, ASTM D 226-89 Type I.

C. Asphalt Plastic Cement: ASTM D 4586, fibrated asphalt cement, asbestos free. Type I or Type II.

D. Fasteners:

1. Nails: 11 or 12 gage, hot-dipped galvanized, with barbed shanks, minimum 3/8-inch diameter head. STAPLES ARE NOT ACCEPTABLE.
2. Length as necessary to penetrate through sheathing, or 3/4 inch into solid decking.

- E. New 26-gauge galvanized iron sheet metal perimeter edge flashings, jacks on all evaporative coolers & exhaust vents, and platform cover one large evaporative cooler unit.
- F. New four-pound sheet lead jacks at all gas and electrical penetrations and any other pipe penetrations smaller than 1" in diameter.
- G. Install 18" – wide water shield around eave edge.
- H. Installation of new 3-inch 28-gauge galvanized steel drip edges, painted to match roof,
- I. Install fabric reinforced coating system (or equivalent) on flat roof in AC well, and,
- J. Install new continuous (seamless) 28-gauge galvanized steel gutters and downspouts. Paint and style to match existing.

PART 3 - EXECUTION

3.01 EXAMINATION:

- A. Examine substrate to receive shingles for obstructions and loose sheathing. Repair or replace unacceptable work, which may affect proper material installation.
- B. Verify deck is dry, sound, clean and smooth, free of depressions, waves, or projections and rot. Do not proceed with shingling work until satisfactory conditions have been corrected.

3.02 PREPARATION:

- A. General:
 - 1. Contractor to verify existing material to be removed is asbestos free.
Note: If asbestos is discovered, stop work immediately and contact the Cities Chief Building Official
 - 2. Remove projections and debris from substrate before starting installation. Lay sheet metal over minor voids and nail to substrate as described in the previous section.
 - 3. Coordinate shingle installation with flashing and other work integral with shingles.

4. Secure all vent stacks, curbs, and other penetrations to substrate before starting shingle installation.

B. Preparation for Reroofing:

1. Comply with recommendations with NRCA in "The NRCA Steep Roofing Manual" for preparation of the existing wood board roof substrate to receive new roofing.

3.03 INSTALLATION:

A. General:

1. Application: The manufacturer's written instructions and the NRCA's "Steep Roofing Manual" shall be followed for application not listed in this specification and in cases of conflict with this specification.
2. Layout work with horizontal and vertical chalk lines.

B. Underlayment:

1. Two Layer Underlayment: Install two layers of No. 15 asphalt saturated (non-perforated) felt horizontally over the substrate. Underlayment to be laid parallel to eaves, lapping a minimum 24" on sides and 6" on ends for two layers of #15 felt underlayment or lapping a minimum 2" on sides and 6" on ends for one layer of #30 felt underlayment. The felts should be back nailed only as necessary to hold the felts in place until the asphalt roofing material is applied. Laps may be sealed with plastic roof cement as required.

C. Application of Shingles over Underlayment: See manufacturer's specification for the proper application of asphalt shingles over underlayment.

1. Starter Strip: Apply a starter strip at the eaves constructed of a shingle of the same color. Apply by removing 7" from the left-hand side and then trimming 7-3/8" inches from the top edge along the long the dimension of the shingle. Apply the starter strip along the eaves with a 1/2" drip edge, overlaying and finishing even with the lower edge of the eaves flashing strip; fasten in a line parallel to, and 3" to 4" above, the eave edge. Place fasteners so that the top of the fastener will not be exposed. Be sure to nail securely along rakes and between self-sealing cement along the eave. Start at left rake and lay horizontally.
2. Shingle Courses: Start the first course with a full shingle at the left rake and continue across with full shingles laid flush with the starter course. Place the shingles close together but do not crowd. Do not nail ends first,

as doing so may cause buckling. Trim remaining courses per manufactures recommendations.

- a. General: Do not drive fasteners into or above the factory-applied adhesive. Place all fasteners so that they are concealed by the shingle top lap and so that they penetrate the head lap of the overlapped shingle. Top lap is considered to be that portion of a shingle overlapping the shingle in the course below. Head lap is considered to be that portion of a shingle extending from the top edge of the shingle in the course below to the butt edge of the shingle in the course above. Exposure is considered to be that portion of a shingle between exposed butt edges of overlapping courses of shingles.
- b. Shingles Applied with Nails: Nominal 5" exposure. Apply each shingle with not less than 4 nails. Place one nail one inch from each end and evenly space nails on a horizontal line not less than 5/8" above the tops of cutouts.

D. Flashing:

1. Stepped Flashing: For sloping roofs which abut vertical surfaces, provide stepped metal flashing in accordance with Section 07610 - Sheet Metal.
2. Painted to match roof

E. Ridges

1. Start on end of ridge opposite prevailing wind. Expose shingles 5" using two fasteners each, 5-1/2" from the exposed butt end and 1" from the side edges.
2. Start hips at the bottom. Apply ridge after hips are installed. Finish with last ridge cap piece set in plastic cement. Do not leave any fasteners exposed.

F. Vent Pipes

1. Apply shingles up to vent pipe and cut hole in next shingle to go over pipe. Set the shingle in plastic roof cement.
2. Install four-pound sheet lead flashing over shingle and vent pipe, set in plastic roof cement. Refer to Section 07610.
3. Cut shingles around the vent pipe and set in plastic roof cement.

G. Drip edge

1. Drip edge to be covered with asphalt shingles.

2. Install on top of the underlayment at all rakes, and below the underlayment at all eaves.
3. Install per manufacture recommendations/requirements, and
4. Asphalt shingles should overhang the exterior edge of the drip edge by 1/4-inch to 3/4-inch.
5. Paint to match roof

H. Fabric Reinforced Coating System.

1. Fluid Applied Reinforced Elastomeric Latex Membrane

a. Acceptable manufacturer: Conklin Company Inc., Shakopee, Minn., Rapid Roof III, Rapid Roof HV, Benchmark and PUMA XL, or Equivalent

b. Description: a seamless membrane system consisting of Rapid Roof III, Rapid Roof HV/Prime Time (only for use on concrete), or Benchmark fluid applied acrylic latex base coat with fabric embedded into it and fluid applied acrylic latex topcoat, or equivalent.

c. Physical and performance requirements for elastomeric acrylic latex coating system: Rapid Roof III, Rapid Roof HV, Benchmark and PUMA XL consisting of an acrylic latex base coat and topcoat, when tested with Spunflex polyester fabric using ASTM D412 procedures, will meet the following performance.

d. Physical and performance requirements of Spunflex:

1. Fabric type: knitted polyester
2. Yarn denier: 70
Construction: 28x30 per square inch
3. Nominal weight: 2.24 ounces per square yard
4. Mullen burst: 80.6 psi
5. Elongation (ASTM 1682)
 - a. MD: 54% MD =Machine Direction
 - b. XD: 147% XD = Cross Direction
6. Grab breaking strength (ASTM 1682)
 - a. MD: 54 lbs.
 - b. XD: 32 lbs.

7. Fabric thickness (FTM-5136): .024 inch

2. Miscellaneous Materials (for Fiber Reinforced Coating System)

A. Caulking: White, bronze, or gray Kwik Kaulk® acrylic caulking compound or Conklin 360-S urethane sealant as approved by membrane manufacturer or equivalent.

B. Primers: Prime Time® as furnished by membrane manufacturer. Tack Coat™ as furnished by manufacturer for use on aged membranes EPDM, PVC, TPO, CSPE, CPA, Modified Bitumen or equivalent.

I. Gutters

1. The aluminum used is alloy 3105-H24 which meets the specifications set forth in the "Aluminum Standards and Data 1988" published by the Aluminum Association. The gauge of the aluminum for the gutter is .027, plus or minus .002.
2. The surface of the aluminum sheet is thoroughly cleaned and dried to remove residual oils and impurities using a 140°F-160°F hot water solution of potassium hydroxide provided by Henkel Surface Technologies and then applying a chromate or titanium base conversion coating, 1402W or 1455SF by Henkel Surface Technologies.
3. A thermo setting polyester enamel is roller coated and baked at high temperatures for the outside coating. The reverse side of the coil, or wash coat, is a thermo setting polyester enamel applied to help resist corrosion and promote formability.
4. The color range of the applied finish is .8 mils, plus or minus .2 mils (1.0)
5. Made in the USA
6. Paint to match existing color

J. Downspouts

1. The aluminum used is alloy 3105-H24 which meets the specifications set forth in the "Aluminum Standards and Data 1988" published by the Aluminum Association. The gauge of the aluminum for the pipe is .024, plus or minus .002.
2. The surface of the aluminum sheet is thoroughly cleaned and dried to remove impurities and coated with Betz Metchum Permatreat 1500/3000 non-cyanide chromate conversion coating.

3. A thermo setting polyester enamel is roller coated and baked at high temperatures for the outside coating. The reverse side of the coil, or wash coat, is a thermo setting polyester enamel applied to help resist corrosion.
4. The color range of the applied finish is .8 mils, plus or minus .2 mils. (1.0)
5. Made in the USA
6. Paint to match existing building color

3.04 CLEANING:

- A. All rubbish, debris and excess material resulting from the operation of this trade shall be cleaned up as the work progresses and removed from the site.
- B. Contractor shall remove bituminous or other markings from finished surfaces. Contractor is to keep the roof and premises clean and free from accumulations of waste materials and rubbish from the work area daily. Surplus materials and all equipment shall be promptly removed from the site upon completion of the work. Prior to final acceptance, the Contractor shall restore all areas affected by his work to their original state of cleanliness and repair all damage done to the premises, by his workmen, equipment, or sub-contractors working under his direction.

3.05 PAYMENT:

Payment for Item, "Roof Replacement," shall be at the contract lump sum price as set forth in the Statement of Service (SOS), and shall include all testing, demolition, disposal, materials, tools, labor, machinery, mobilization, restoration, and fees associated applicable checked items on the SOS, licenses, inspections, and all other fees or items necessary for the completion entire roof system including fabric reinforcing system.

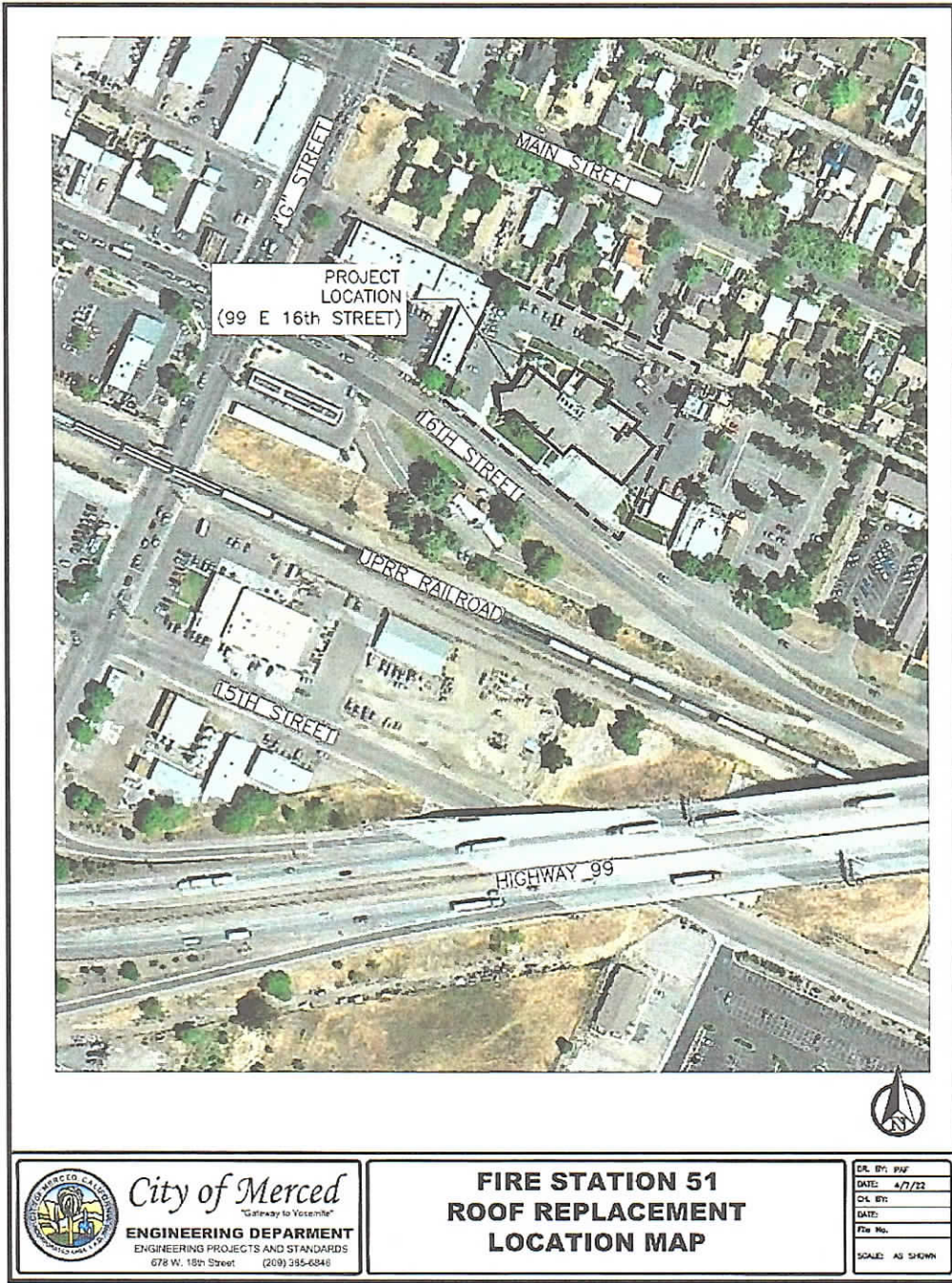
7. RESTORATION

The Contractor shall restore all areas adjacent to the construction area to their preconstruction condition. Specifically included in this item are all landscaping areas, sprinklers, grass, painted surfaces, excess building material, irrigation lines and all other items damaged during construction.

Full compensation for conforming to the requirements of this section shall be considered as included in the price paid for the various contract items of work involved and no additional compensation will be made.

Payment for restoration shall be paid with lump sum item Roof Replacement.

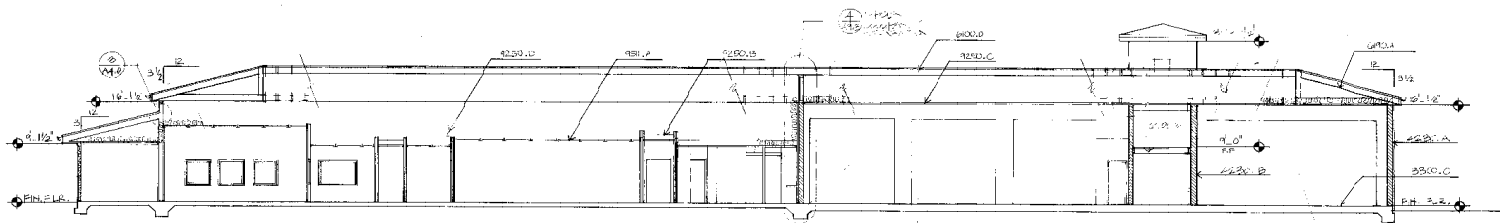
LOCATION MAP



City of Merced
"Gateway to Yosemite"
ENGINEERING DEPARTMENT
ENGINEERING PROJECTS AND STANDARDS
678 W. 18th Street (209) 395-6846

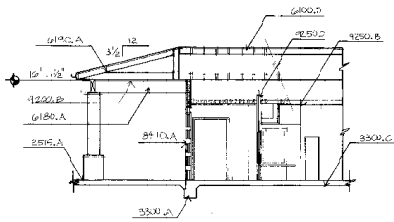
FIRE STATION 51 ROOF REPLACEMENT LOCATION MAP

DL BY: RW
DATE: 4/7/22
CL BY:
DATE:
FILE NO.:
SCALE: AS SHOWN



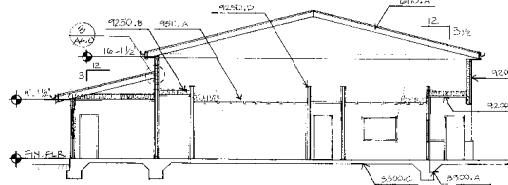
BUILDING SECTION

SCALE: 1/8"=1'-0" 1



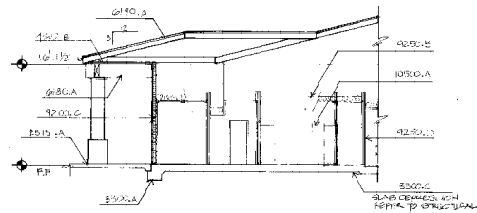
BUILDING SECTION

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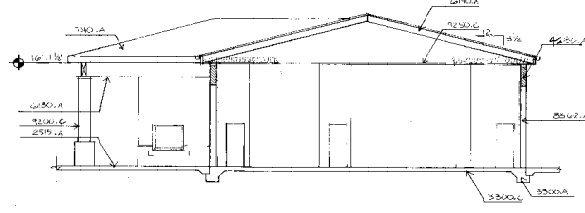
BUILDING SECTION

SCALE: 1/8"=1'-0" 3



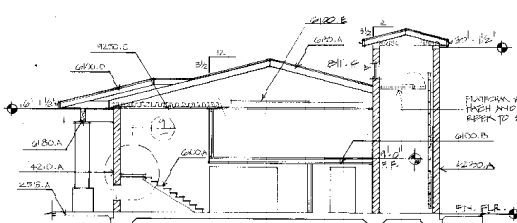
BUILDING SECTION

SCALE: 1/8"=1'-0" 4



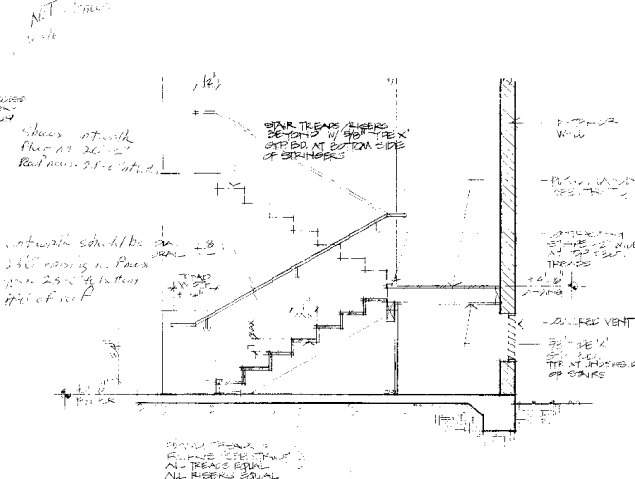
BUILDING SECTION

SCALE: 1/8"=1'-0" 5



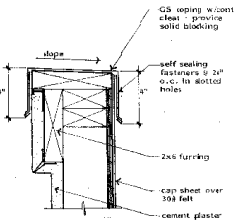
BUILDING SECTION

SCALE: 1/8"=1'-0" 6



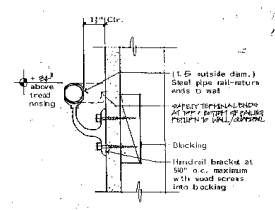
STAIR SECTION

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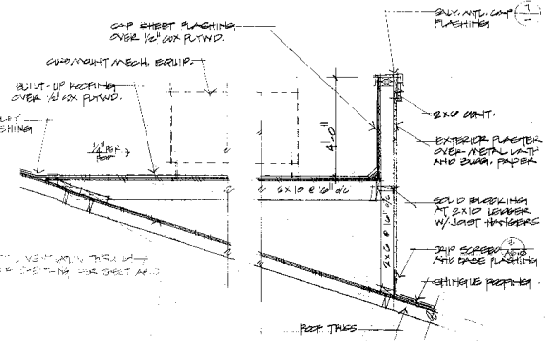
PARAPET COPING

SCALE: 1/2"=1'-0" 7



HANDRAIL DETAIL

SCALE: 1/2"=1'-0" 8



MECH. EQUIP. SCREEN - SECTION

SCALE: 1/2"=1'-0" 9

GENERAL NOTES

- A Refer to Structural Plans for all foot and wall framing.
- B Refer to Plumbing Plans for all plumbing fixtures.
- C Refer to Electrical Plans for power, lighting, and communication systems.
- D Refer to elevations for all built-in cabinets and countertops.
- E All fire Sprinkler lines shall be run "right to the outside of floor and wall framing.
- F REFER TO MECHANICAL EQUIPMENT SCREEN PLAN FOR CEILING HEIGHTS.
- G BUILDING INSULATION SHALL BE 2" R-19 INSUL. EXT. FINISH WALLS = 2" R-19 INSUL. EXT. GYPSUM WALLS = SOLID GROUTED CELLS.

SPECIFICATION KEY NOTES

- DIVISION 2-IRONWORK
 - 2010 FORKLIFT/DRUMMERS RAVINS
 - A Standard Rivet
- DIVISION 3-CONCRETE
 - 3000 CAST-IN-PLACE CONCRETE
 - A Reinforced Concrete Footings - Exterior
 - B Cast in place
 - C Slab in place
 - E Water Retention Forming
- DIVISION 4-MASONRY
 - 4200 REINFORCED UNIT CONCRETE MASONRY
 - A Masonry exterior wall construction
 - B Interior masonry - see construction
- DIVISION 5-METALS
 - 5100 STRUCTURAL STEEL
 - A See steel column
- DIVISION 6-WOOD AND GLASS
 - 6100 ROUGH CARPENTRY
 - A Wood Joist
 - B Roof Framing
 - C Roof Framing
 - D Truss Framing
 - E ARCH PLATFORM ROSEWOOD
 - 6101 SOLID LAMINATED TIMBER
 - A Support Joist
 - 6190 INDEPENDENT WOOD TRUSSES
 - A Truss and roof
 - 6110 CABINETS
 - A Cabinet-maker
 - B Cabinet-maker
- DIVISION 7-THERMAL AND MOISTURE PROTECTION
 - 7010 SILL INSULATION
 - A Roof R-19 Insulation
 - B Roof Insulation
 - C Insulation on joist
 - 7030 ASPHALT FLASHING FOLDS
 - A Asphalt shingles
- DIVISION 8-DOORS AND WINDOWS
 - 8110 STANDARD-STYLE DOORS, WINDOWS AND FRAMES
 - A Metal door and frame
 - B Metal door and frame
 - C PLATE GLASS DOOR
 - 8210 WOOD DOORS AND FRAMES
 - A Interior Solid Wood Doors and Frames
 - 8300 SECTIONAL METAL EXPANDED SHUTTER DOORS
 - A Overhead hardware
 - 8410 ALUMINUM PARTITIONS AND STOREFRONTS
 - A Aluminum storefront
 - 8420 ALUMINUM SLIDING WINDOWS
 - A Aluminum Sliding window
- DIVISION 9-FINISHES
 - 9000 PLASTER AND PLASTER
 - A Plaster
 - B Plaster
 - C Plaster with steel reinforcement
 - 9250 3-PHASE BRICK, COLLOID-FORMED METAL FRAMING
 - A 1/2" Brick with metal framing
 - B 1/2" Brick with metal framing
 - C 1/2" Brick with metal framing
 - D Steel deck with metal framing
 - 9410 SUSPENDED ACCUSTICAL CEILING
 - A 2x4 suspended ceiling
- DIVISION 10-SPECIALTIES
 - 1000 DOORS AND ACCESSORIES
 - A Fire-rated Glass Doors
 - B Fire-rated Glass at Exit Route



City of Merced
Central Fire Station

REV.	REVISION	DATE
1	PLAN CHECK	8/22/06
2	BC SET	8/22/06

Job Number: A95024
Sheet: A-6.0