TO: HARBOR DEPARTMENT PURCHASING OFFICE

500 Pier "A" Street Berth 161 Wilmington, CA 90744 BID NO. F-1158 Page 1

Show this number on envelope

Contract No. 4000

1. COMPLETE CONTRACT

This entire Bid Request shall become the contract upon its execution by the Executive Director on behalf of the Harbor Department of the City of Los Angeles. The complete contract shall consist of the entire Bid (including Specifications), this page, terms and conditions, any addendums, and when required, CONTRACTOR'S BOND. Contractor will be provided with a copy of the executed contract.

2. GOODS AND SERVICES TO BE PROVIDED BY THE CONTRACTOR

The Contractor agrees, upon acceptance of this offer by the City, to furnish the goods and services herein specified according to the terms and conditions as set forth herein.

3. AMOUNT TO BE PAID

The City agrees to pay the contractor for the goods or services in the manner described in the paragraph entitled "PAYMENTS" on the reverse side of this form. Unless otherwise indicated by the Bidder, remittance by the City for goods or services will be made to the address below.

4 CHOICE OF ALTERNATIVE PROVISIONS; OPTIONS; NOTIFICATION

When alternative provisions are requested, or options are offered, the contractor will be notified as to which provision, or option, is Being accepted when notification is sent that the Contractor is the successful bidder.

5. DECLARATION OF NON-COLLUSION

The undersigned certifies (or declares) under penalty of perjury that this bid is genuine and not sham or collusive, or made in the interest or on behalf of any person, firm, or corporation not herein named; that the bidder has not directly or indirectly induced or solicited any other bidder to put up a sham bid, or any other person, firm or corporation to refrain from bidding, and that the bidder has not in any manner sought by collusion to secure any advantage over other bidders.

6. LEGAL JUSTIFICATION

This agreement shall be deemed entered into in Los Angeles, California, and shall be governed and construed in accordance with the laws of the State of California.

| EXECUTED AT:City, Stat | | _ ON THEI | DAY OF | , 2023 Month Year |
|---|-------------------|---|----------------|-----------------------------|
| City, Stat BIDDER MUST COMPLETE AND SIGN B | e BELOW: | Date | | Month Year |
| Firm Name | | | | |
| Phone | | | | |
| Address | | | | |
| Street C | City | State Zip | | |
| | Printed Name | Printed Title | | |
| (Approved Corporate Signature Methods) a) <u>Two signatures</u> : One by Chairma Officer or an Assistant Treasurer. | | | | |
| b) One signature: By corporate designal NOTARIZATION : Bids executed outside the | | | | authorizing person to sign. |
| County of | Commissioners of | f the Board of Harbo the City of Los Angele ract to be executed by th | es Approved as | to form and legality |
| State ofS.S. | Executive Directo | or of the Harbo | or | , 2023 |
| Subscribed and sworn this date | - | City and said Contractor ontract the day and yea | | у |
| , 2023 | D | | DV | |
| | | or Harbor Department | BY | Deputy |
| Notary Seal Signature | | Date | | |

CITY OF LOS ANGELES HARBOR DEPARTMENT

LINE

BID NO. F-1158

QTY UNIT PRICE EXTENDED PRICE

| SUBMIT BID TO:Los Angeles Harbor Department Purchasing Office, 1st Floor 500 Pier A Street Wilmington, CA 90744OFFICE HOURS: 7:30 a.m. – 4:30 p.m.Monday through Friday (excluding Holidays) | BID DUE BEFORE 2:00 P.M. March 24, 2023 |
|--|---|
| <u>Buyer</u> : Jacquelyn L. Estrada, Procurement Analyst | BIDS WILL BE PUBLICLY |
| Email: JEstrada@portla.org | OPENED |

PORT POLICE HEADQUARTERS PERIMETER SECURITY ENHANCEMENTS

UNIT

Taxable

(Y/N)

| 6 | WARRANTY COSTS | □y □n | LOT | 1 | \$ □ N/A \$ |
|---|---|-------|------|---|----------------|
| 5 | MATERIALS DELIVERY FEES BY THIRD-PARTY FREIGHT | N | LOT | 1 | \$ □ N/A \$ |
| 4 | MATERIALS DELIVERY FEES BY VENDOR | Y | LOT | 1 | \$ □ N/A \$ |
| 3 | EQUIPMENT RENTAL/USE FEES | □y □n | LOT | 1 | \$ □ N/A \$ |
| 2 | LABOR | N | HOUR | | \$ \$ |
| 1 | MATERIALS | Y | LOT | 1 | \$ \$ |

Total (Excluding Sales Tax) \$

Plans and general specifications are attached.

DESCRIPTION

BIDDER MUST SIGN THIS BID ON PAGE 1. WET SIGNTURES REQUIRED.

CITY OF LOS ANGELES HARBOR DEPARTMENT

BID NO. F-1158 (SHOW THIS NUMBER ON ENVELOPE)

PROJECT DESCRIPTION

The Los Angeles Harbor Department ("City" or "Department") is soliciting bids for a contractor to fabricate and install, as well as repair as-needed, steel fencing and other steel barriers needed to enhance the physical security of the Los Angeles Port Police Headquarters building. This will require the enhancement of the existing parking structure entrance gates and surrounding areas, the installation of security cages around the gas, water, and fire suppression system piping and components, the repair of existing fencing and barrier structures, and the fabrication and installation of new steel fencing and barriers, to ensure the integrity of the security perimeter. Please note that painting will be carried out by Department personnel. Due to Department needs during the Port of Los Angeles Fleet Week events, no activities specified in this Request for Bids (RFB) will be permitted from May 16 - June 3, 2023. The material requirements are estimated as follows (See Attachment B for Plans):

<u>"PLAN A"</u>

Gas, Water and Fire Suppression System Barrier: Length: 76' 4" Height: 6' 16 Structural Posts 1 Double Maintenance Gate 1 Single Maintenance Gate

<u>"PLAN B"</u>

South Vehicle Entrance Security Enhancement: Length: 147' 11" Height: 3' on the top of Existing Stem Wall Steel Posts Every 6' 1 Single Stand-Alone Maintenance Door Next to Telecommunications Room (See Sheet 3A-8.0)

<u>"PLAN C"</u>

Two (2) Employee Vehicle Entrance Gate Extensions: Overall Length: 27' Height: 2' HSS 6"x 6", 3"x 3" (See Sheet A-7.0) Replace Ten (10) Existing Hinges Perforated Metal Panels Added to Top of Existing Gate

GENERAL CLAUSES - BIDDER'S INSTRUCTIONS

REQUEST FOR QUOTATION BIDDER RESPONSIVENESS. In order to be responsive, bidders shall complete and return all Quotation documents requested by the Los Angeles Harbor Department (Department), including addenda, specifications, drawings and all forms.

It shall be the bidder's responsibility to **provide one (1) original and one (1) copy** of the completed Quotation documents. The original and all copies shall include all quotation documents requested by the Department, including addenda, specifications, drawings and all forms.

The Purchasing Agent may deem a bidder non-responsive if the bidder fails to provide all Quotation documents requested by the Department at the Quotation closing date and time.

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<u>ADDENDA.</u> From time to time, the Harbor Department may deem it necessary to issue an addendum(a) to modify or cancel a Bid Request. Such addendum(a) will be available on the Port of Los Angeles internet website – <u>www.portoflosangeles.org</u> and the Los Angeles Business Assistance Virtual Network website – <u>www.labavn.org</u>. It is the responsibility of the bidder to be aware of, and respond to, any such addendum(a) before the deadline of the applicable bid request. Failure to do so may deem the bid non-responsive.

<u>TECHNICAL CORRECTIONS</u>. The Executive Director or his designee is authorized to make minor technical corrections or clarifications in order to effectuate the intent of this contract/bid.

BID SUBMITTAL TIMELINESS.

Bidders solely are responsible for the timeliness of their submittals. As such, bidders are cautioned to budget adequate time to ensure that their bids are delivered at the location designated at or before the deadline set forth above. Bidders are cautioned that matters including, but not limited to, power and internet outages, traffic congestion, security measures and/or events in or around the Port of Los Angeles, may lengthen the amount of time necessary to deliver the bid, whether the bid is submitted in person or by mail.

MANDATORY PRE-BID CONFERENCE. There will be a mandatory Pre-Bid Conference for all Bidders. VENDORS NOT IN ATTENDANCE WILL NOT BE ALLOWED TO BID ON THIS CONTRACT.

Date:Tuesday, March 7, 2023Time:10:00 AMLocation:500 Pier A Street, Wilmington, CA 90744 – 1st Floor Conference Room

The purpose of the Pre-Bid Conference is to answer any questions about the requirements contained within the bid and to provide any additional information, which may prove helpful to the prospective bidder, as well as to overcome any barriers to participation. Please forward any questions that require a follow-up response after the Conference to jestrada@portla.org for public posting.

MANDATORY JOB WALK. All bidders are required to attend a Job Walk scheduled on **Tuesday**, **March 7**, **2023**, immediately following the Pre-Bid Conference referenced above; otherwise, your bid will be deemed non-responsive. The Job Walk location will be at **330 S. Centre Street**, **San Pedro**, **CA 90731**. Please forward any questions that require a follow-up response after the Job Walk to <u>jestrada@portla.org</u> for public posting.

<u>PRE-AWARD CONFERENCE</u>. Prior to award of contract, the successful bidder may be required to attend a pre-award conference to be scheduled at a later date. The intent of this meeting will be to discuss contract regulations, specifications, invoicing, delivery times, etc., in order to ensure successful administration of the contract.

CITY OF LOS ANGELES HARBOR DEPARTMENT BID NO. F-1158 (SHOW THIS NUMBER ON ENVELOPE)

SPECIFICATION CHANGES. If any provisions of the Specifications preclude bidder from submitting a bid, bidder may request in writing that the specifications be modified. Such request must be received by the Director of Contracts and Purchasing at least five (5) working days before the bid due date. All bidders will be notified by Addendum of any approved changes to the specifications.

CLAUSES/SPECIFICATIONS PARTICULAR TO MATERIAL, EQUIPMENT, SERVICE.

SUPPLIER CONTACT INFORMATION.

| Contact Person: | | | | | | |
|------------------------|---------------|-------------|-------------|----------|------------|---------|
| Title: | | | | | | |
| Telephone: | | | | | | |
| Fax: | | | | | | |
| Email Address: | | | | | | |
| 24-Hour Contact Phone: | | | | | | |
| AUTHORIZED DISTRI | BUTOR/DEALER. | Bidder must | indicate if | it is an | authorized | factory |

distributor/dealer for the manufacturer(s) being quoted (please check one and initial).

If bidder is not an authorized distributor/dealer, the bidder shall submit with its Quotation a formal Letter of Certification from the manufacturer, stating that the manufacturer will honor any warranty claims by the Department or City for equipment, parts, and/or materials provided by the bidder.

The manufacturer will be responsible for any default of the supplier that is not corrected by the supplier in a timely and efficient manner. This responsibility includes replacing incorrect or defective parts, troubleshooting, and correcting problems that are traceable to the manufacturer.

<u>CONTRACTOR'S LICENSE</u>. In accordance with Section 7028.15 of the Business and Professions Code, bidder must provide the following information:

Contractor's License No.:

Class:

Expiration Date:

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WARRANTY. Terms of warranty on new materials offered. Free PARTS AND SERVICE (LABOR) for defective materials and workmanship for the following time period after goods and/or work have been accepted:

Materials: _____ Labor: _____

Please attach additional warranty terms with bid, if applicable.

SAFETY AND HEALTH REQUIREMENTS. All equipment, materials, procedures and services furnished and/or used by the Contractor shall comply with applicable current requirements of OSHA and CAL-OSHA. Contractor agrees to indemnify and hold harmless Los Angeles City, The Harbor Department, and agents, officers and employees thereof, for all damages assessed against them as a result of Contractor's failure to comply with said safety and health requirements.

SAFETY APPROVAL. Electrical items listed herein shall have UNDERWRITER'S LABORATORY OR LOS ANGELES CITY ELECTRICAL TESTING LABORATORY approval and meet all current OSHA and CAL-OSHA requirements, where applicable.

STORM WATER POLLUTION PREVENTION PLAN, SWPPP. All work performed under any resulting contract within the Port of Los Angeles, as applicable, must be in accordance with the California Storm Water Best Management Practices (BMP) Handbooks. These practices prohibit the placement of any waste material resulting from the contractor's performance of work into the storm drain system as required by the City of Los Angeles Storm Water Pollution Prevention Plan (SWPPP) for Public Agency Activities.

A copy of the BMP Handbooks for 1) Construction 2) Industrial/Commercial and 3) Municipal Activities are available for review in the office of the Director of Environmental Management, 5th floor, 425 S. Palos Verdes Street, San Pedro, California 90731.

SITE MAINTENANCE AND CLEAN-UP. Vendor shall keep the premises and worksite clean and free from rubbish and debris. Upon completion of the contract, and before acceptance of the work by the City, the Vendor shall at once remove as necessary all plants, tools, equipment and materials, and shall thoroughly clean the worksite leaving it with a neat and clean appearance.

REMOVAL, CLEANUP, AND DEMOBILIZATION. Upon completion of the Contracted Work, the Contractor shall remove all of its tools, materials and other articles from the property of the CITY. Should the Contractor fail to take prompt action to this end, the CITY, at its option and without waiver of such other rights as it may have, upon thirty (30) calendar days' notice, may treat such items as abandoned property. The Contractor shall also sweep all floors broom clean, clean all exterior and interior surfaces and windows and remove all rubbish and debris resulting from the Contracted Work and shall maintain the Jobsite in a clean, orderly and safe condition at all times until completion of the contracted work.

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Throughout all phases of construction, including suspension of work, and until the Final Acceptance, the Contractor shall keep the site clean and free from rubbish and debris. The Contractor shall also abate dust nuisance by cleaning, sweeping and sprinkling with water, or other means as necessary. The use of water resulting in mud on public streets will not be permitted as a substitute for sweeping or other methods.

Materials and equipment shall be removed from the site as soon as they are no longer necessary. Before the final inspection, the site shall be cleared of equipment, unused materials and rubbish so as to present a satisfactory clean and neat appearance. All cleanup costs shall be included in the Contractor's Bid.

Failure of the Contractor to comply with the City of Los Angeles Harbor Department Project Manager (PM) cleanup orders may result in an order to suspend work until the condition is corrected. No additional compensation will be allowed as a result of such suspension.

INSPECTION RESPONSIBILITY. Bidder submittal constitutes acknowledgment of inspection of the work site to bidder's satisfaction, including, but not limited to, site conditions and specification requirements.

<u>CARE AND CUSTODY.</u> The contractor accepts full responsibility for the security against loss or damage to the equipment involved while in his/her possession or the possession of any of his/her agents. Contractor shall reimburse the Harbor Department for any loss or damage to Department equipment in his/her possession or the possession of any of his/her agents.

<u>CHEMICALS.</u> As directed by the Occupational Safety and Health Act of 1970 and the Hazardous Substances Information and Training Act of 1980, vendor must provide a material safety data sheet for all chemicals furnished. The Harbor Department reserves the right to refuse all deliveries not accompanied by a material safety data sheet.

INSURANCE CLAUSE / LIMITS

INDEMNIFICATION AND INSURANCE

Indemnification

Except for the sole negligence or willful misconduct of the City, or any of its Boards, Officers, Agents, Employees, Assigns and Successors in Interest, Vendor undertakes and agrees to defend, indemnify and hold harmless the City and any of its Boards, Officers, Agents, Employees, Assigns, and Successors in Interest from and against all suits and causes of action, claims, losses, demands and expenses, including, but not limited to, attorney's fees (both in house and outside counsel) and cost of

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litigation (including all actual litigation costs incurred by the City, including but not limited to, costs of experts and consultants), damages or liability of any nature whatsoever, for death or injury to any person, including Vendor's employees and agents, or damage or destruction of any property of either party hereto or of third parties, arising in any manner by reason of the negligent acts, errors, omissions or willful misconduct incident to the performance of this Purchase Order by Vendor or its subcontractors of any tier. Rights and remedies available to the City under this provision are cumulative of those provided for elsewhere in this Purchase Order and those allowed under the laws of the United States, the State of California, and the City.

Acceptable Evidence and Approval of Insurance

Electronic submission is the required method of submitting Vendor's insurance documents. KwikComply is the City's online insurance compliance system, designed to be used primarily by insurance brokers and agents as they submit client insurance certificates directly to the City. It uses the standard insurance industry form known as the ACORD 25 Certificate of Liability Insurance in electronic format. The advantages of KwikComply include standardized, universally accepted forms, paperless approval transactions (24 hours, 7 days per week), and security checks and balances. Vendor's insurance broker or agent shall obtain access to KwikComply at https://kwikcomply.org/ and follow the instructions to register and submit the appropriate proof of insurance on Vendor's behalf.

POLICY COPIES.

Upon request by City, Vendor must furnish copy of binder of insurance and/or full certified policy of any insurance policy required herein. Such request may occur outside of termination and/or expiration date of this contract.

PRIMARY COVERAGE.

The coverages submitted must be primary with respect to any insurance or self-insurance of the City of Los Angeles Harbor Department. The City of Los Angeles Harbor Department's program shall be excess of this insurance and non-contributing.

If the Vendor maintains higher limits than the minimums shown below, the City requires and shall be entitled to coverage for the higher limits maintained by the Vendor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the City.

ADDITIONAL INSURED.

The City of Los Angeles Harbor Department, its officers, agents, and employees must be included as additional insureds in applicable liability policies to cover the City of Los Angeles Harbor Department's vicarious liability for the acts or omissions of the named insured. Such coverage is not expected to respond to the active negligence of the City of Los Angeles Harbor Department.

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NOTICE OF CANCELLATION.

By terms of the contract, the contracting company agrees to maintain all required insurance in full force for the duration of the contractor's business with the City of Los Angeles Harbor Department. Each contractually required insurance policy shall provide that it will not be cancelled or reduced in coverage until after the Board of Harbor Commissioners, Attention: Risk Manager and the City Attorney of the City of Los Angeles Harbor Department have been given thirty (30) days' prior notice (or 10 days' notice of nonpayment of premium) by registered mail addressed to 425 S. Palos Verdes Street, San Pedro, California 90731.

RENEWAL.

When an existing policy is timely renewed, you are encouraged to submit your renewal policy as soon as it is available to KwikComply. All renewals must continue to meet the policy conditions listed above. As a courtesy, Risk Management sends notifications of expiring or expired insurance. However, it is the responsibility of the contracting company to ensure evidence of insurance remains effective for the duration of the contract.

For further clarification on Insurance procedures, coverage information and documentation please go to http://www.portoflosangeles.org/business/risk.asp.

Vendor will be required to furnish, at its own expense and within TEN (10) days of notification of pending award, proof of insurance, in accordance with the types and in the minimum limits shown below:

<u>NOTE</u>

FAILURE TO SUBMIT PROOF OF INSURANCE WITHIN (10) DAYS UPON RECEIPT OF NOTICE OF INTENT TO AWARD WILL DEEM THE BIDDER NON-RESPONSIVE AND THE PROSPECTIVE AWARD MAY BE CANCELLED.

General Liability Insurance

Vendor shall procure and maintain in effect throughout the term of this Purchase Order, without requiring additional compensation from the City, commercial general liability insurance covering personal and advertising injury, bodily injury, and property damage providing contractual liability, independent contractors, products and completed operations, and premises/operations coverage written by an insurance company authorized to do business in the State of California rated VII, A- or better in Best's Insurance Guide (or an alternate guide acceptable to City if Best's is not available) within Vendor's normal limits of liability but not less than one million Dollars (\$1,000,000.00) combined single limit for injury or claim. Said limits shall provide first dollar coverage except that Executive Director may permit a self-insurance is justified by the net worth of Vendor. The retention or self-insurance provided shall provide that any other insurance maintained by the Harbor Department shall be excess of Vendor's insurance and shall not contribute to it. In all cases, regardless of any

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deductible or retention, said insurance shall contain a defense of suits provision and a severability of interest clause. Additionally, each policy shall include an additional insured endorsement (CG 2010 or equivalent) naming the City of Los Angeles Harbor Department, its officers, agents and employees as Primary additional insureds, a 10-days' notice of cancellation for nonpayment of premium, and a 30-days' notice of cancellation for any other reasons.

Auto Liability Insurance

Vendor shall procure and maintain at its expense and keep in force at all times during the term of this Purchase Order, automobile liability insurance written by an insurance company authorized to do business in the State of California rated VII, A- or better in Best's Insurance Guide (or an alternate guide acceptable to City if Best's is not available) within Consultant's normal limits of liability but not less than one million Dollars (\$1,000,000.00) covering damages, injuries or death resulting from each accident or claim arising out of any one claim or accident. Said insurance shall protect against claims arising from actions or operations of the insured, or by its employees. Coverage shall contain a defense of suits provision and a severability of interest clause. Additionally, each policy shall include an additional insured endorsement (CG 2010 or equivalent) naming the City of Los Angeles Harbor Department, its officers, agents and employees as Primary additional insureds, a 10- days' notice of cancellation for nonpayment of premium, and a 30-days' notice of cancellation for any other reasons.

Workers' Compensation and Employer's Liability

Vendor shall certify that it is aware of the provisions of Section 3700 of the California Labor code which requires every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and that Vendor shall comply with such provisions before commencing the performance of the tasks under this Purchase Order. Coverage for claims under U.S. Longshore and Harbor Workers' Compensation Act, if required under applicable law, shall be included. Vendor shall submit Workers' Compensation policies whether underwritten by the state insurance fund or private carrier, which provide that the public or private carrier waives its right of subrogation against the City in any circumstance in which it is alleged that actions or omissions of the City contributed to the accident. Such Worker's Compensation and occupational disease requirements shall include coverage for all employees of Vendor, and for all employees of any subcontractor or other vendor retained by Vendor.

INITIAL HERE ACKNOWLEDGING INSURANCE REQUIREMENTS:

(initial)

Upon approval of insurance, contractor will receive written authorization to proceed.

NO WORK MAY BE PERFORMED WITHOUT SUCH WRITTEN AUTHORIZATION TO PROCEED.

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FINANCIAL CLAUSES

INSURANCE WAIVER OF SUBROGATION FEES.

YES NO (Check One) An additional fee will be charged to cover the cost of the required waiver of subrogation. The fee will be assessed as follows:

(If YES, check/complete all that apply)

Flat Fee: \$_____

Fee as a percentage of labor costs: ____%

Fee per hour of labor:

Whichever is greater

LABOR. Labor Rates as quoted in Line 2 shall be calculated as follows:

| Straight time, per hour: | \$ |
|---------------------------------|----|
| Minimum Hours Billed: | |
| Regular Business Hours: | |
| Overtime, per hour (Weekdays): | \$ |
| Minimum Hours Billed: | |
| Overtime, per hour (Saturdays): | \$ |
| Minimum Hours Billed: | |
| Overtime, per hour (Sundays): | \$ |
| Minimum Hours Billed: | |
| Overtime, per hour (Holidays): | \$ |
| Minimum Hours Billed: | |

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RE-RIGGING AND SPECIAL ACCESS FEE. Vendor shall provide access to the work areas for inspection by others during Regular Business Hours (as defined below) when work is commencing at the specific area of inspection. Re-rigging or special access to accommodate inspections by others, provided by Vendor, shall be billed at quoted labor rate per hour with materials and/or equipment billed at:

| Cost plus | %. | □ N/A |
|-----------|----|-------|
|-----------|----|-------|

DELIVERY POINT. Unless quoted in lines 4-5, pricing to include all delivery charges, F.O.B.: Los Angeles Port Police Headquarters 330 S. Centre Street San Pedro, CA 90731 *Or, as directed by Harbor Department personnel*

REGULAR BUSINESS HOURS.

Bidder to indicate regular business hours:

| Monday-Friday | AM | to | PM |
|---------------|----|----|----|
| Saturdays | AM | to | PM |
| Sundays | AM | to | PM |

<u>SHIPPING CHARGES</u>. Please prepay and add shipping or delivery charges to your invoices. Ship cheapest way, unless otherwise specified herein, for goods to arrive within the time specified above. Please include copy of your freight bill with your invoice. AIR SHIPMENT MUST BE SPECIFICALLY AUTHORIZED BY STATEMENT ON THIS ORDER.

BUSINESS TAX REGISTRATION CERTIFICATE (BTRC). In accordance with the City of Los Angeles Municipal Code, a Business Tax Registration Certificate may be required of persons engaged in business activity within the City. The Office of Finance, Tax and Permit Division, (213) 473-5901, has sole authority in determining a firm's tax requirements and in issuing Business Tax Registration Certificates or Business Tax Exemption Numbers. Accordingly, firm's current Business Tax Registration Certificate or Business Tax Exemption Number must be clearly shown on all invoices submitted for payment. Bidder, in submitting this bid, acknowledges and accepts the above requirements and recognizes that <u>no</u> invoice will be processed for payment without inclusion of the Business Tax Registration Certificate or Business Tax Exemption Number. New vendors my provide their BTRC number after award of contract.

BTRC Number: _____

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<u>TIME AND MATERIALS WITH NO FIXED FEE</u>. All invoices with payments for <u>time and materials</u> must be supported/backed up by <u>time sheets</u>. Note: those invoices with fixed fee rates do not require time sheets.

FEDERAL EXCISE TAX. The City of Los Angeles Harbor Department is exempt from payment of Federal Excise Taxes, and will furnish vendor with a Tax Exemption Certificate. PRICING NOT TO INCLUDE ANY FEDERAL EXCISE TAX

<u>WITHHOLDING REQUIREMENTS.</u> The State of California Franchise Tax Board (FTB) requires that the City of Los Angeles Harbor Department withhold income taxes from payments to out-of-state vendors for services performed within California unless the vendor submits one of the required forms listed below. The tax withholding rate is seven percent (7%) of payments subject to withholding.

This requirement applies to vendors whose legal address (as indicated on their IRS W-9 Form), or payment address (as indicated on this Request for Bid/Quote), is outside of California. Should either of these two situations apply to your company, please attach one of the following forms to your bid in order to help the Harbor Department clarify your nonresident tax withholding status:

- Form 590, *Withholding Exemption Certificate,* certifying exemption from the withholding requirement.
- Form 587, *Nonresident Income Allocation Worksheet,* which allocates the expected income under the City contract for work completed within and outside of California.
- Notice from the CA Franchise Tax Board (CAFTB) that a withholding waiver was authorized (you must first file CA Form 588, *Nonresident Withholding Waiver Request* to the CAFTB).
- Notice from CAFTB that a reduced withholding request was authorized (you must first file CA Form 589 *Nonresident Reduced Withholding Request* to CAFTB).

Further information regarding this requirement may be found here: <u>https://www.ftb.ca.gov/pay/withholding/withholding-on-nonresidents.html</u>

Please Check One:

Both Bidder's Legal Address and Remittance Address are located within the State of California - Withholding Forms Not Required.

Withholding Forms Attached

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SALES TAXES. Do not include Sales Taxes in your Bid. Sales Taxes will be added at time of order.

<u>SALES TAX PERMIT</u>. Vendor's California State Board of Equalization <u>Permit No</u>. required to collect California State Sales Tax.

Permit Number: ______.

VENDOR PAYMENT. Please note. Vendor name and address must be submitted exactly as they will appear on the invoice. Please provide a copy of your firm's IRS Form W-9 with your bid. If invoice remit to (remittance) name and address are different from the bid name and address, please indicate:

Invoices submitted for payment where the invoice name and address do not match the name and address as they appear on the purchase order, or as indicated in the space above, will not be processed and will be returned to the vendor.

GENERAL CLAUSES – LAW, CHARTER, ADMINISTRATIVE CODE

<u>COMPLIANCE WITH LAWS</u>. Vendor shall comply with all applicable Ordinances, laws, Rules and Regulations of the City and of any County, State or Federal Government, or subdivision thereof.

DEFAULT BY SUPPLIER. In case of default by Vendor, the Department reserves the right to procure the articles or services from other sources and to hold the vendor responsible for any excess costs occasioned to the Department thereby.

<u>SMALL BUSINESS, MINORITY-OWNED, WOMEN-OWNED, DISABLED VETERAN-OWNED AND</u> <u>ALL OTHER BUSINESS ENTERPRISES</u>. It is the policy of the Department to provide Small Business, Minority-Owned, Women-Owned, Disabled Veteran-Owned and all Other Business Enterprises (SBE/MBE/WBE/DVBE/OBE) an equal opportunity to participate in the performance of all Department contracts. Bidders are encouraged to continue assisting the Department in implementing this policy by

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taking all reasonable steps to ensure that all available business enterprises, including SBEs, MBEs, WBEs, DVBEs, and OBEs, have an equal opportunity to compete for and participate in Department contracts.

LOCAL BUSINESS PREFERENCE PROGRAM. The Harbor Department is committed to maximizing opportunities for local and regional businesses, as well as encouraging local and regional businesses to locate and operate within the Southern California region. It is the policy of the Harbor Department to support an increase in local and regional jobs. The Harbor Department's Local Business Preference Program (LBPP) aims to benefit the Southern California region by increasing jobs and expenditures within the local and regional private sector.

Vendors who qualify as a Local Business Enterprise (LBE) will receive an 8% preference on any bid for goods, materials, supplies, and related services valued in excess of \$150,000. The preference will be applied by calculating the bidder's price at 8% less than the quoted price. The Harbor Department will use the applied preference for bid tabulation only. Actual amount paid to the lowest bidder will be the price quoted by the lowest bidder meeting specifications.

The Harbor Department defines a LBE as:

(a) A business headquartered within Los Angeles, Orange, Riverside, San Bernardino, or Ventura Counties. Headquartered shall mean that the business physically conducts and manages all of its operations from a location in the above-named counties; or

(b) A business that has at least 50 full-time employees, or 25 full-time employees for specialty marine contracting firms, working in Los Angeles, Orange, Riverside, San Bernardino, or Ventura Counties.

In order for Harbor Department staff to determine the appropriate LBE preference, Bidder shall complete, sign, notarize and submit the attached Affidavit and Bidder Description Form. The Affidavit and Bidder Description Form will signify the LBE status of the Bidder and subcontractors.

In the event of Bidder's noncompliance during the performance of the Contract, Bidder shall be considered in material breach of contract. In addition to any other remedy available to City under this Contract or by operation of law, the City may withhold invoice payments to Bidder until noncompliance is corrected, and assess the costs of City's audit of books and records of Bidder and its subcontractors. In the event the Bidder falsifies or misrepresents information contained in any form or other willful noncompliance as determined by City, City may disqualify the Bidder from participation in City contracts for a period of up to five (5) years.

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EQUAL BENEFITS POLICY. The Board of Harbor Commissioner of the City of Los Angeles adopted Resolution No. 6328 on January 12, 2005, agreeing to adopt the provisions of Los Angeles City Ordinance 172,908, as amended, relating to Equal Benefits (Section 10.8.2 et seq. of the Los Angeles Administrative Code) as a policy of the Harbor Department. Bidder shall comply with the policy whenever applicable. Violation of the policy shall entitle the City to terminate any agreement with Bidder and pursue any or all other legal remedies that may be available.

ETHICS. Persons who submit a response to this solicitation (bidders) are subject to Charter section 470(c)(12) and related ordinances. As a result, bidders may not make campaign contributions to and or engage in fundraising for certain elected City officials or candidates for elected City office from the time they submit the response until either the contract is approved or, for successful bidders, 12 months after the contract is signed. The bidder's principals and subcontractors performing \$100,000 or more in work on the contract, as well as the principals of those subcontractors, are also subject to the same limitations on campaign contributions and fundraising.

Bidders must submit <u>CEC Forms 50 and 55</u> (provided in <u>Attachments</u>) to the awarding authority at the same time the response is submitted. The forms require bidders to identify their principals, their subcontractors performing <u>\$100,000 or more</u> in work on the contract, and the principals of those subcontractors. Bidders must also notify their principals and subcontractors in writing of the restrictions and include the notice in contracts with subcontractors. Responses submitted without completed <u>CEC</u> <u>Forms 50 and 55</u> shall be deemed nonresponsive. Bidders who fail to comply with City law may be subject to penalties, termination of contract, and debarment. Additional information regarding these restrictions and requirements may be obtained from the City Ethics Commission at (213) 978-1960 or <u>ethics.lacity.org</u>.

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION. ALL CONTRACTORS MUST HAVE A CONTRACT REGISTRATION NUMBER THROUGH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS.

A CONTRACTOR AND SUBCONTRACTOR <u>MAY NOT</u> SUBMIT A BID PROPOSAL FOR A PUBLIC WORKS PROJECTS UNLESS REGISTERED WITH THE DEPARTMENT OF INDUSTRIAL RELATIONS. <u>BID PROPOSAL WILL BE DEEMED NON-RESPONSIVE</u>.

The prevailing rate of per diem wages and rates for legal holidays and overtime work for each craft, classification or type of workers needed in the execution of any contract to let under the Specifications has been determined by the Director of the Department of Industrial Relations (DIR) of the State of California pursuant to the provisions of the Labor Code of the State of California. The State of California has approved the City's Labor Compliance Program of enforcement of State prevailing wage laws and will allow the City to retain all penalty assessments for violation of these laws.

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Pursuant to notice requirements effective January 1, 2015, all contractors and subcontractors must register with and meet requirements of the State of California DIR using the online application before bidding on the public works contracts in California. For the online application, visit <u>http://www.dir.ca.gov/Public-Works/PublicWorks.html</u>.

- a. No contractor or subcontractor may be listed on a bid proposal for a public works projects unless registered with the DIR pursuant to Labor Code section 1725.5 (with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1[a]).
- b. No contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the DIR pursuant to Labor Code section 1725.5.
- c. The Project is subject to compliance monitoring and enforcement by the DIR.

PREVAILING WAGES

- a. The Contractor shall pay the general prevailing rate of per diem wages and rates for legal holiday and overtime work currently being paid in the area where the work is being performed.
- b. Pursuant to the provisions of the Labor Code of the State of California, the general prevailing rate of wages for each craft, classification or type of workers needed in the execution of contracts under the jurisdiction of the Board, shall be those rates as determined by the Director of the Department of Industrial Relations of the State of California. Copies of the applicable Determinations may be obtained at or by request to the Department.
- c. When the Contractor has been determined to be in violation of Section 377 of the City Charter making applicable the provisions of the California Labor Code relating to the payment of not less than the prevailing per diem wages on public works, deductions may be made from moneys due or to become due the Contractor in the amount of twice the difference between such stipulated prevailing rates, and the amount paid to each wage worker for each Calendar Day, or part thereof, for which each worker was paid less than the stipulated prevailing wage rate.
- d. The Contractor shall also comply with Section 1775 of the Labor Code providing for a penalty per day as determined by the Labor Commissioner for each Calendar Day, or part thereof, for which each worker was paid less than the prevailing wage.
- e. Contractor and subcontractors shall keep an accurate record showing the names and occupations of all workers employed by them in connection with any work done under the Contract, and the per diem wages paid to each of such workers; and shall keep such record open at all reasonable hours to the inspection of the Board and to the State Division of Labor Law Enforcement. The Contractor in all other respects shall comply with Section 1776 of the Labor Code.

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- f. No later than the end of the workday following the day on which work was performed by the Contractor, or any subcontractor, the Contractor and applicable subcontractor(s) shall complete and furnish the Contractor Daily Field Report, included as Subsection 71 of this Section, to the Inspector. When work has been performed, the Contractor shall submit a form regarding all employees and equipment at the jobsite on the workday, and the Contractor shall submit a separate form for each subcontractor regarding each subcontractor's employees and equipment at the jobsite on the workday. Each field report shall:
 - 1. Identify the Project title, Specification number, name of the Contractor or subcontractor, and date on which the work was performed.
 - 2. Show the names of the workers and identify their applicable company affiliation (Prime Contractor, subcontractor, supplier, or vendor).
 - 3. Show the labor classification for each worker. If worker is an operating engineer or teamster, the Contractor or subcontractor must indicate which piece of equipment was operated by the worker.
 - 4. Show the Start Time and End Time for the worker listed, as well as the total hours worked by the worker on the workday.
 - 5. Show the type of equipment, size, identification number, and hours of operation, including loading and transportation, if applicable, utilized on the workday.
 - 6. Contain the printed name and title for the Contractor or subcontractor representative; and shall be dated and signed by same.
- g. Contractor shall submit the original (wet signature by Contractor or subcontractor) to the Inspector for review. If additional space is needed, a second form, with pages numbered accordingly, can be completed.
- h. The Inspector will compare the Inspector's records with the report submitted by the Contractor, discuss any apparent discrepancies with the Contractor, and reconcile the report (and have it re-submitted, if necessary). Once the report is agreed upon by the Contractor and Inspector, the Inspector prints his/her name on the report and dates and signs the report. Each party shall retain a copy of the report, signed by both parties.
- i. Certified payrolls from the Contractor and all subcontractors shall by submitted to the City weekly through the Department of Public Works Bureau of Contract Administration's Online Certified Payroll System (OCPS) and shall be accompanied by a Statement of Compliance, signed electronically on

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OCPS by the Contractor or the Contractor's agent attesting that the payrolls are correct and complete and the wage rates contained therein are not less than those set by the applicable wage determinations incorporated into the Contract. The City reserves the right to reject incomplete payroll reports and request re-submittal of complete reports.

WAGE AND EARNING ASSIGNMENT ORDERS/NOTICES OF ASSIGNMENTS

- a. The Contractor and its subcontractors shall comply with all applicable state and federal employment reporting requirements for the Contractor's and/or subcontractor's employees.
- b. The Contractor and/or subcontractor shall certify that the principal owner(s) are in compliance with any Wage and Earnings Assignment Orders and Notices of Assignment applicable to them personally. The Contractor or subcontractor shall comply with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignments in accordance with California Family Code §§5230 et. seq. The Contractor or subcontractor shall maintain such compliance throughout the term of the Contract.

Prime Contractor State of California DIR Registration No.:

Subcontractor State of California DIR Registration No.:

Subcontractor State of California DIR Registration No.:

(Attach additional sheets if necessary)

DIR REPORTING LABOR CLASSIFICATIONS:

PRIME CONTRACTOR:

Please indicate which Labor Classification(s) will be used for Payroll Reporting:

□ ASBESTOS □ CARPET/LINOLEUM □ LABORERS □ SHEET METAL □ TILE WORKERS

□ BOILERMAKER □ CEMENT MASONS □ ELEVATOR MECHANIC □ MILLWRIGHTS □ PIPE TRADES □ SOUND/COMMM

□ BRICKLAYERS

□ OPERATING ENG

□ PLASTERERS

□ SURVEYORS

□ CARPENTERS □ DRYWALL FINISHER

□ DRYWALL/LATHERS

- □ IRON WORKERS
- □ PAINTERS
- □ ROOFERS
- □ TEAMSTER

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SUBCONTRACTOR: N/A

Please indicate which Labor Classification(s) will be used for Payroll Reporting:

ASBESTOS
CARPET/LINOLEUM
ELECTRICIANS
LABORERS
PILE DRIVERS
SHEET METAL
TILE WORKERS

 BOILERMAKER
 CEMENT MASONS
 ELEVATOR MECHANIC
 MILLWRIGHTS
 PIPE TRADES
 SOUND/COMMM

 BRICKLAYERS
 DRYWALL FINISHER
 GLAZERS
 OPERATING ENG
 PLASTERERS

□ SURVEYORS

CARPENTERS
DRYWALL/LATHERS
IRON WORKERS
PAINTERS
ROOFERS
TEAMSTER

Estimated Project Duration: 300 Days

(Attach additional sheets if necessary)

<u>AWARD OF CONTRACT</u>. Bid shall be subject to acceptance by the Department for a period of three (3) months unless a lesser period is prescribed in the quotation by the bidder. The Department may make combined award of all items complete to one bidder or may award separate items to various bidders. Bidders may submit alternate prices, a lump sum or a discount conditional on receiving an award for two or more items. The right is reserved to reject any, or all, bids and to waive informality in bids.

<u>BID RECAPS</u>. Bid recaps, with a summary of all bids received, will be posted to the following website within two weeks of the bid closing date: https://www.portoflosangeles.org/business/contracting-opportunities/purchasing-bids

REGIONAL ALLIANCE MARKETPLACE FOR PROCUREMENT (RAMP). PRIOR TO BEING AWARDED A CONTRACT with the Harbor Department, all vendors must be registered on the City's Contracts Management and Opportunities Database, Regional Alliance Marketplace for Procurement (RAMP), at <u>http://www.RAMPLA.org</u>.

Respondents are advised, pursuant to Executive Directive 35, if a bidder is selected and awarded a contract, and if the vendor is a for-profit company or corporation, the vendor shall, within 30 days of the effective date of the contract and on an annual basis thereafter (i.e., within 30 days of the anniversary of the effective date of the contract), report the following information to City via the Regional Alliance Marketplace for Procurement ("RAMP") or via another method specified by City: vendor's and any subcontractor's annual revenue, number of employees, location, industry, race/ethnicity and gender of majority owner ("contractor/subcontractor Information"). On an annual basis, the vendor shall further request that any subcontractor input or update its business profile, including the vendor/subcontractor information, on RAMP or via another method prescribed by City. Vendors who are already registered may look up their RAMP ID at: https://www.rampla.org/s/regional-profiles.

RAMP ID Number: _____

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GENERAL CONDITIONS READ CAREFULLY

- 1. FORM OF BID AND SIGNATURE. The Bid must be made on this form only, and is limited to the Terms and Conditions contained herein, unless expressly agreed otherwise in writing by the City. <u>No telephonic, facsimile, or electronic bid is acceptable, unless otherwise indicated</u>. Bid should be enclosed in a sealed envelope, showing the Bid No. in the lower left corner, and addressed to the Port of Los Angeles Contracts and Purchasing Division, 500 Pier "A" Street, Wilmington, CA 90744. Bids must be signed with the firm's corporate name or DBA and by a responsible officer or authorized employee. In case of error in extension of prices, unit price will govern. All prices must be firm unless the specification provides for adjustment.
- TAXES: Do not include any Sales or Federal Excise Tax in prices unless the specifications specifically require that they be included. Sales tax will be added by the City at time of award. The City will furnish Federal Excise Tax Exemption Certificate to Supplier. Any other taxes must be included in bid prices.
- 3. SPECIFICATION CHANGES. Vendor may request in writing that specifications be modified if its provisions restrict vendor from bidding. Such request must be received by the Director of Purchasing at least five (5) working days before bid opening date. All vendors will be notified by Addendum of any approved changes in the specifications.
- 4. BRAND NAMES AND SPECIFICATIONS. The detailed specifications and/or brand name references are descriptive and indicate quality, design, and construction of items required. Offers will be considered to supply articles substantially the same as those described therein but with minor variations. Vendor must describe variations in their Bid.
- 5. AWARD OF CONTRACT. Bid shall be subject to acceptance by the City for a period of three (3) months unless a lesser period is prescribed in the quotation by the vendor. The City may make combined award of all items complete to one vendor or may award separate items to various vendors. Vendors may submit alternate prices, a lump sum or a discount conditional on receiving an award for two or more items. The right is reserved to reject any, or all, bids and to waive informality in bids.
- 6. PURCHASE AGREEMENT. A copy of the Bid, Specifications and General Conditions will remain on file in the Purchasing Office. All material or services supplied by the Contractor shall conform to the applicable requirements of the City Charter, City Ordinances, and all applicable State and Federal Laws, as well as conforming to the Specifications, Terms and Conditions contained herein.
- PRICE GUARANTEE. If during the term of any agreement awarded pursuant to this Bid, the supplier sells the same materials or services under similar quantity and delivery conditions, at prices below those stated herein, such lower prices are to immediately be extended to the City.
- DEFAULT BY SUPPLIER. In case of default by supplier, the City reserves the right to
 procure the articles or services from other sources and to hold the supplier responsible
 for any excess costs incurred by the City.
- DELIVERY: If delivery of the commodity or service cannot be made exactly as specified and at the price shown, notify the Director of Contracts and Purchasing immediately. Do not make delivery without his approval. Any correspondence, other than invoices, relating to this order must be sent to the Director of Contracts and Purchasing.
- INSPECTION: All materials furnished on this order will be subject to test and inspection and, if rejected, will be held subject to order of shipper and subject to accrued charges.
- 11. **INVOICING:** The point of free delivery, terms, contract number, name and address of department must appear on all invoices.

All materials must be marked and tagged with the Contract number and be accompanied by packing list in detail. Material must be packed and shipped in conformity with tariff or classification requirements. Prices on the contract include delivery to the division within building unless otherwise specified on the contract. Prepaid charges for transportation must be accompanied by original expense bill marked paid and is not subject to transportation tax, due to the exemption permitted municipalities as indicated. Materials shall be listed separately on invoices covering repairs or installation service. The Harbor Department will not be responsible for services, materials, or supplies furnished without prior authorization from the Director of Contracts and Purchasing. This contract must not be assigned or transferred to anyone without the written approval of the Director of Contracts and Purchasing.

Discount period to be computed from date of receipt of invoice, or complete acceptance of goods or services, whichever is the later date. In case of delay of payment beyond 30 days after acceptance of goods or services or date of invoice, whichever is later, please write the Harbor Department Accounting Section giving the contract number, stating to which division and on what date delivery was made. Harbor Department may pay on partial deliveries, but right is reserved by the Director of Contracts and Purchasing to require complete delivery before payment.

- 12. TIME AND MATERIALS WITH NO FIXED FEES: ALL INVOICES WITH PAYMENTS FOR TIME AND MATERIALS MUST BE SUPPORTED / BACKED UP BY TIME SHEETS. NOTE: THOSE INVOICES WITH FIXED FEE RATES DO NOT REQUIRE TIME SHEETS.
- CITY OF LOS ANGELES MUNICIPAL CODE: All items must meet the requirements of the City of Los Angeles Municipal Code.
- 14. PAYMENTS. Payment terms are NET 30 days unless vendor quotes otherwise. Cash discounts allowing less than 20 days or 20th Proxima will not be considered by the City when evaluating Bids. All Cash Discounts are computed from the date of delivery in full or completion and acceptance of the work or material, or from date of receipt of invoice, whichever is latest. Partial payments may be made by the City on delivery and acceptance of goods and on receipt of vendor's invoice. Invoices must be submitted as specified on the Purchase Order or Notice to Proceed.
- ASSIGNMENT. The supplier shall not assign or transfer by operation of law any obligation without the prior written consent of the Director of Contracts and Purchasing.
- 16. NONDISCRIMINATION. During the performance of this con-tract, the contractor shall not discriminate in employment practices against any employee or applicant for employment because of the employee's race, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition, in accordance with L.A. Admin. Code Sections 10.8 to 10.13, whose provisions are incorporated herein. All subcontracts awarded under any such contract shall contain a like nondiscrimination provision.
- SAFETY APPROVAL. Articles supplied under this contract will not be accepted unless they comply with current safety regulations of the City Department of Building and Safety, U.L., the Safety Orders of the California Division of Occupation Safety and Health (CalOSHA) and OSHA requirements.
- 18. PREVAILING WAGES. Where labor is required for public work as a part of this contract, pursuant to the provisions of the Labor Code of the State of California, contractor shall pay no less than the general prevailing wages for the area as determined by the Director of the Department of Industrial Relations, State of California. Copy of wage schedule is obtainable from the Office of the Board of Public Works, City Hall, Los Angeles.
- 19. CONTRACTOR'S LIABILITY. The contractor agrees to, at all times, relieve, protect, save harmless, and fully indemnify the City of Los Angeles, its officers, agents and employees from any and all liability whatsoever that may arise or be claimed by reason of any acts of said contractor, contractor's employees and agents, in connection with the work to be performed under the contract.
- PATENT RIGHTS. The person, firm, or corporation, upon whom this order is drawn, does, in case the materials or supplies to be furnished are covered wholly or in part by

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U.S. Letters Patent, by the acceptance of this order agrees to indemnify and hold the City of Los Angeles harmless from any and all injuries or damage which the City may sustain by reason of the sale to or use by it of such materials or supplies and arising out of the alleged or actual infringement of said letters patent.

- LEGAL JUSTIFICATION. This agreement shall be deemed entered into in Los Angeles, California, and shall be governed and construed in accordance with the laws of the State of California.
- 22. TERMINATION FOR NON-APPROPRIATION. The Harbor Department of the City of Los Angeles' (City's) obligation to pay any amount hereunder, for any City fiscal year purpose. The City's fiscal year ends on June 30th of each calendar year. Accordingly, anything to the contrary notwithstanding, the City may terminate this contract and future monetary obligations hereunder as of the end of any fiscal year.
- 23. CANCELLATION. The contract may be terminated in whole or in part by the Harbor Department of the City of Los Angeles (City) for its convenience, without penalty, provided that the Vendor is given not less than 30 days written notice (delivered by certified mail, return receipt requested) of the intent to terminate. The City will pay for that portion of the orders fulfilled or work performed. The City has the right to cancel the contract for cause at any time.

THE END

No. 285 Rev. 07/15-116

- PART 1 GENERAL
- 1.1 SECTION INCLUDES
 - A. Repair materials for damaged galvanizing
- 1.2 RELATED SECTIONS
 - A. METAL FABRICATIONS Section 05 50 00
 - B. DECORATIVE METAL FENCES AND GATES Section 32 31 19

1.3 PRICE AND PAYMENT PROCEDURES

- A. Measurement and Payment:
 - 1. Payment for work of this Section shall be included in each corresponding bid item of the Bid Proposal Line Items that requires treatment of damaged galvanizing.

1.4 REFERENCES

A. American Society for Testing and Materials (ASTM International):

ASTM A780 Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings

B. South Coast Air Quality Management District (SCAQMD)

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Materials shall be zinc-based alloys, zinc-rich paints, or sprayed zinc in conformance with ASTM A780.
- B. The following product is acceptable: Carbozinc 859 VOC manufactured by Carboline Company, (314) 644-1000 or (800) 848-4645.
- C. Products shall be in compliance with South Coast Air Quality Management District regulations.

- D. Materials shall comply with City of Los Angeles Green Building Code requirements.
 - Enter product data in VOC Content Verification Checklist form located in Appendix "A" of the Specifications and provide product specification sheets. Make checklist and specifications available to City of Los Angeles Department of Building and Safety inspector through the Engineer upon request.

PART 3 - EXECUTION

3.1 REPAIR

- A. Repairs shall be in conformance with ASTM A780 and manufacturer's latest material safety data sheet instructions.
- B. Coating thickness shall be a minimum of 3.0 mils in dry film thickness.

END OF SECTION

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Shop fabricated miscellaneous metal fabrications, steel and aluminum items
- B. Fasteners
- C. Loose bearing and leveling plates
- D. Miscellaneous framing and supports
- E. Metal bar gratings
- F. Loose steel lintels
- G. Floor plates
- H. Metal finishes

1.2 RELATED SECTIONS

- A. TREATING DAMAGED GALVANIZING
- B. DECORATIVE METAL FENCES AND GATES

Section 05 05 14 Section 32 31 19

1.3 PRICE AND PAYMENT PROCEDURES

- A. Measurement and Payment:
 - 1. Payment for Work of this Section shall be paid under the Lump Sum Construction bid item of Bid Proposal Line Items.

1.4 REFERENCES

A. American Society of Mechanical Engineers (ASME):

| ASME B18.6.3 | Machine Screws, Tapping Screws, and Metallic Drive Screws (Inch Series) | |
|--|--|--|
| ASME B18.21.1 | Washers: Helical Spring-Lock, Tooth Lock, and Plain Washers (Inch Series) | |
| American Society for Testing and Materials (ASTM International): | | |

ASTM A36 Standard Specification for Carbon Structural Steel

Β.

| ASTM A53 | Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless |
|-----------|--|
| ASTM A123 | Standard Specification for Zinc (Hot-Dip Galvanized Coatings on Iron and Steel Products |
| ASTM A153 | Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware |
| ASTM A193 | Standard Specification for Alloy-Steel and Stainless Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications |
| ASTM A194 | Standard Specification for Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both |
| ASTM A269 | Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service |
| ASTM A276 | Standard Specification for Stainless Steel Bars and Shapes |
| ASTM A283 | Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates |
| ASTM A307 | Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength |
| ASTM A435 | Standard Specification for Straight-Beam Ultrasonic Examination of Steel Plates |
| ASTM A500 | Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes |
| ASTM A501 | Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing |

| ASTM A786 | Standard Specification for Hot-Rolled Carbon, Low-Alloy, High-Strength Low-Alloy, and Alloy Steel Floor Plates |
|------------|---|
| ASTM A1011 | Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength |
| ASTM B26 | Standard Specification for Aluminum-Alloy Sand Castings |
| ASTM B85 | Standard Specification for Aluminum-Alloy Die Castings |
| ASTM B209 | Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate |
| ASTM B210 | Standard Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes |
| ASTM B211 | Standard Specification for Aluminum and Aluminum-Alloy Rolled or Cold Finished Bar, Rod, and Wire |
| ASTM B221 | Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes |
| ASTM D962 | Standard Specification for Aluminum Powder and Paste Pigments for Paints |
| ASTM F593 | Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs |
| ASTM F1554 | Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength |
| ASTM F3125 | Standard Specification for High Strength Structural Bolts, Steel and Alloy Steel, Heat Treated, 120 ksi (830 MPa) and 150 ksi (1040 MPa) Minimum Tensile Strength, Inch and Metric Dimensions |

C. American Welding Society (AWS):

| AWS A2.4 | Standard Symbols for Welding, Brazing, and |
|----------|--|
| | Nondestructive Examination |

METAL FABRICATIONS

| | AWS D1.1 | Structural Welding Code - Steel |
|----|-----------------------------------|---|
| | AWS D1.2 | Structural Welding Code - Aluminum |
| D. | City of Los Angeles Department | of Building and Safety (LADBS) |
| E. | Code of Federal Regulations (Cl | FR): |
| | 29 CFR 1910.27 | Fixed Ladders |
| F. | Federal Specification (FS): | |
| | FS TT-V 81G | Varnish: Mixing, for Aluminum Paint |
| G. | International Accreditation Servi | ce, Inc. (IAS): |
| | IAS AC172 | Accreditation Criteria for Fabricator Inspection Programs for Structural Steel |
| Η. | National Association of Architect | tural Metal Manufacturers (NAAMM) |
| | NAAMM MBG 531 | Metal Bar Grating Manual |
| I. | Society for Protective Coatings (| SSPC): |
| | SSPC PA 1 | Shop, Field, and Maintenance Coating of Metals |
| | SSPC SP 1 | Solvent Cleaning |
| | SSPC SP 1 | Hand Tool Cleaning |
| | SSPC SP 3 | Power Tool Cleaning |
| | SSPC SP 7 | Brush-off Blast Cleaning |
| | | |

J. South Coast Air Quality Management District (SCAQMD)

1.5 SUBMITTALS

- A. Submit mill test reports certifying that materials meet requirements of standards listed in References Article of this Section.
 - 1. Heat and melt numbers and mill test report numbers.
 - 2. Size
 - 3. Type and grade of material, identified by ASTM Standard Specification number
 - 4. Color coding for shop drawing requirements.

- B. Submit the following to the Engineer for review and approval:
 - 1. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
 - a. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.
 - b. Design fabrications to meet actual installation conditions verified at the site.
 - c. Detail minor connections and fastenings not shown or specified to meet required conditions. Include detailed sequence plan for shop and field welding that minimizes locked-in stresses and distortions.
 - d. No change shall be made on shop drawings after shop drawings have been approved, except by written consent or direction of the Engineer.
 - Detail drawings shall show grade of steel, identification marks on members, dimensions, size, weight, orientation, and location of each member and setting elevation of base plates and bearing plates. Identify connections and welds, including welding sequences and types, sizes, and extent of weld.
 - f. The shop drawings shall show details of permitted options proposed, details of connections, direction of rolling plates, sequence of field and shop assembly, welding sequence and procedures, location and details of welds, and the location of temporary support used for assembly.
 - 2. Welders' Certificates: Submit certification for welders employed on the Project, verifying AWS qualification within the previous 12 months.
 - 3. Fabricator's Qualification Statement: Provide documentation showing steel fabricator is accredited under IAS AC172.
- C. Submit manufacturer's literature and certification that paints and coatings meet South Coast Air Quality Management District Volatile Organic Compounds (VOC) requirements.
 - 1. Paint is not in scope. Only requires hot-dip galvanized finish.
- D. Submit name of independent test laboratory to perform inspection and testing.
- E. Submit results of independent test laboratory's inspections and tests.

- F. Submit fabricator's test results of materials prior to using materials for fabrication.
- 1.6 QUALITY ASSURANCE
 - A. Inspection: The Engineer reserves the right to inspect the manufacture or fabrication. The Engineer's inspection of the work does not relieve the Contractor of the responsibility for the work. Errors or faults that are discovered during fabrication shall be corrected by the Contractor prior to installation.
 - B. Welders: Welders shall be qualified in conformance with AWS D1.1 and AWS D1.3 shall be City of Los Angeles Department of Building and Safety certified.
 - C. Mill Tests: Prepare mill tests for specified material.
 - D. Field welding shall be performed in presence of a City of Los Angeles Registered Deputy Inspector.
 - E. Design _____ under direct supervision of a professional structural engineer experienced in design of this work and licensed in the State of California.
 - F. Fabricator Qualifications: A qualified steel fabricator that is accredited by IAS AC172 and shall be City of Los Angeles approved fabricator.
- 1.7 DELIVERY, STORAGE, AND HANDLING
 - A. Protect materials from damage during shipping, handling and storage on the site. Steel showing dents, creases, deformations, weathering, or other defects is not acceptable.
 - B. Store metals above ground on platforms, skids, or other supports, and keep free from dirt, grease, and other foreign material. Protect metals from corrosion while stored.
 - 1. Store materials in a location and in a manner to avoid damage. Stacking shall be done in a way which will prevent bending. Store metal components and materials in a clean, dry location. Cover with waterproof paper, tarpaulin or polyethylene sheeting in a manner that will permit circulation of air inside the cover.
 - C. Deliver bolts, nuts, washers, and studs not part of an approved fabrication, to the site in the original labeled containers and do not transfer into unlabeled containers.
 - D. Units weighing more than 5,000 pounds shall have the mass marked on the steel unit.

PART 2 - PRODUCTS

- 2.1 MATERIALS STEEL
 - A. Steel Plates, Shapes, and Bars: ASTM A36, unless shown otherwise on approved shop drawings or this Section. Plates shall be furnished to qualify for ultrasonic examination in conformance with ASTM A435.
 - B. Steel Tubing: ASTM A500, cold-formed, Grade B, Fy = 46 ksi or ASTM A501, hot formed structural tubing. For exterior installations, provide tubing with hotdip galvanized coating in conformance with ASTM A153.
 - C. Low to intermediate grade steel plates shall conform to ASTM A283.
 - D. Fasteners:
 - 1. Bolts and nuts:
 - a. Bolts and nuts shall be the American National coarse-thread series.
 - b. Unfinished bolts shall conform to ASTM A307.
 - 2. Washers and Load Indicator Devices:
 - a. Plain washers shall conform to ASME B18.21.1.
 - b. Beveled washers shall be square, smooth, and sloped so that contact surfaces of bolt head and nut are parallel.
 - c. The diameter of hole of square-beveled washer shall be 1/16 inch greater than the bolt size for bolts larger than 1 inch.
 - d. Install washers on nut side of bolt for torquing as required.
 - 3. Anchor Bolts: ASTM F1554, Grade 36.
 - 4. Machine Screws: ASME B18.6.3.
 - 5. High Strength Bolts: ASTM F3125.

2.2 MATERIALS - ALUMINUM

A. Extruded Aluminum: ASTM B221, 6063 alloy, T6 temper.

- B. Sheet Aluminum: ASTM B209, 5052 alloy, H32 or H22 temper.
- C. Aluminum-Alloy Drawn Seamless Tubes: ASTM B210, 6063 alloy, T6 temper.
- D. Aluminum-Alloy Bars: ASTM B211, 6061 alloy, T6 temper.
- E. Aluminum-Alloy Sand Castings: ASTM B26.
- F. Aluminum-Alloy Die Castings: ASTM B85.
- G. Bolts, Nuts, and Washers: Stainless steel, Type 304 or 316 in conformance with ASTM F593.
- H. Welding Materials: AWS D1.2; type required for materials being welded.
- 2.3 MATERIALS STAINLESS STEEL
 - A. Stainless Steel Plates: ASTM A276, Type 316 (for exterior and highly corrosive environment).
 - B. Anchor Bolts and Nuts: ASTM A193 and ASTM A194
 - C. Pipe: ASTM A269
 - D. Finish: As noted on Drawings.

2.4 FABRICATION

- A. General:
 - 1. Metal items shall be fabricated and finished in accordance with the Drawings and approved shop drawings. Verify measurements before fabrication.
 - Welding procedures and inspection shall be in conformance with AWS D1.1. Welding shall be continuous along the area of contact expect where tack welding is called for on Drawings. Welds shall be ground smooth.
 - 3. Galvanize fabricated ferrous items after fabrication.
 - 4. Metal fabrications showing injurious defects, weak spots, imperfections in work, or otherwise not conforming to the Specifications or Drawings will be rejected.
- B. Fit and shop assemble items in largest practical sections, for delivery to site.
- C. Fabricate items with joints tightly fitted and secured.

- D. Wire brush material, clean off loose mill scale and rust, and straighten by methods that will not injure the steel prior to fabrication. Remove twists or bends after punching or working component parts of a member before the parts are assembled. Produce finished members free from twists, bends, or open joints when installed.
- E. Shearing, flame cutting, and chipping shall be done accurately.
- F. Assembled pieces shall be taken apart, if necessary, for the removal of burrs and shavings produced by the reaming operation.
- G. Parts not completely bolted in the shop shall be secured by temporary bolts, insofar as practicable, to prevent damage in shipment and handling.
- H. Use of gas or plasma cutting torch is allowed where the metal being cut is not stressed during the operation, and provided stresses are not transmitted through a flame-cut surface. Make cuts with smooth regular contour. Deduct 1/8 inch from width of cut edges to determine effective width of members that are cut. Make radius of reentrant cuts as large as possible, but 1 inch minimum.
- I. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.
- J. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

2.5 LOOSE BEARING AND LEVELING PLATES

A. Provide loose bearing and leveling plates for steel items bearing on masonry or concrete construction, made flat, free from warps or twists, and of required thickness and bearing area. Drill plates to receive anchor bolts and for grouting as required.

2.6 MISCELLANEOUS METAL ITEMS

- A. Miscellaneous Framing and Supports: Provide steel framing and supports for applications indicated which are not a part of structural steel framework, as required to complete work.
 - 1. Fabricate units to sizes, shapes, and profiles indicated and required to receive adjacent other construction retained by framing and supports. Fabricate from structural steel shapes, plates, and steel bars of welded construction using mitered joints for field connection. Cut, drill, and tap units to receive hardware, hangers, and similar items.
 - 2. Equip units with integrally welded anchors for casting into concrete or building into masonry. If units are installed after concrete is placed, furnish inserts. Unless otherwise indicated on Drawings, space anchors 24 inches on center and provide minimum anchor units in the form of steel straps 1-1/4 inches wide by 1/4 inch by 8 inches long.
- B. Miscellaneous Steel Trim: Provide shapes and sizes indicated for profiles shown on Drawings. Unless otherwise indicated on Drawings, fabricate units from structural steel shapes, plates, and steel bars, with continuously welded joints and smooth exposed edges. Use concealed field splices wherever possible. Provide cutouts, fittings, and anchorages as required for coordination for assembly and installation with other work.

2.7 STEEL AND IRON FINISHES

- A. General:
 - 1. Steel, painted, and unpainted iron materials furnished shall be cleaned of rust, scale, and grease.

- 2. Remove oil, grease, and similar contaminants in conformance with SSPC SP 1.
- 3. Remove loose rust, scale, spatter, slag, and other deleterious materials in conformance with SSPC SP 2, SSPC SP 3, or SSPC SP 7.
- 4. Apply primer to give a dry film thickness of 2.5 mils, except as specified for zinc-rich coating option.
- 5. Paint after shop work has been completed. Paint with brushes, entire surface to be covered smoothly, with paint worked into joints.
- 6. No material shall be loaded for shipment until primer is fully dry.
- 7. Materials arriving at site with damaged primer or paint shall be cleaned and given an additional coat of paint before being assembled, except finish work which will be exposed to view shall be returned to shop for recleaning and repainting.
- B. Painting: Not in scope. Material to be galvanized as final step.
- C. Steel surfaces in contact with aluminum shall receive an additional coat of paint consisting of 2 pounds of aluminum paste pigment (ASTM D962 Type II, Class B) per gallon of varnish meeting FS TT-V 81G, Type II.
- D. Galvanizing: For those items indicated for galvanizing, apply zinc-coating in compliance with the following requirements:
 - 1. Ferrous metal work, both fabricated and unfabricated iron and steel products made of uncoated rolled, pressed, and forced shapes, plates, bars, and strip 0.0299 inch thick and heavier shall be galvanized by hot-dip process, with larger items galvanized in conformance with ASTM A123 and smaller hardware (that can be centrifuged) galvanized in conformance with ASTM A153. Required hot-dip galvanizing shall be done after fabrication, in largest sections possible.
 - Items too large for available dip tanks shall be sprayed by approved methods, with molten zinc to coating thickness of 0.003 inch to 0.004 inch. Weight of the zinc coating per square foot of actual surface shall average not less than 2 ounces; no individual specimen shall show less than 1.8 ounces.

3. Bolts and screws for attachment of galvanized items shall be galvanized, or of non-corrodible material.

2.8 ALUMINUM FINISH

A. Mill finish (as fabricated), unless otherwise indicated on Drawings.

2.9 SOURCE QUALITY CONTROL

- A. Tests are waived for steel identified by heat number, accompanied by mill analyses and mill test reports, and properly tagged with an Identification certificate so as to be readily identified for conformance with applicable ASTM Standards.
 - 1. Unidentified materials to be tested by independent test laboratory:
 - a. Yield strength less than or equal to 36,000 psi: 1 set of tension tests and 1 set of bend tests for each 20 tons or part thereof of each heat.
 - b. Yield strength greater than 36,000 psi: 1 set of tension tests and 1 set of bend tests for each piece.
 - c. Additional tests may be required by the Engineer or City of Los Angeles Department of Building and Safety.
- B. Shop inspections may be waived for manufacturer fabricated assemblies delivered to the Contractor for installation as preassembled units.

PART 3 - EXECUTION

- 3.1 EXAMINATION
 - A. Verify that field conditions are acceptable and are ready to receive work.
 - B. Correct detrimental conditions before proceeding with installation.

3.2 PREPARATION

- A. Clean and strip primed steel items to bare metal where site welding is required.
- B. Supply setting templates to the appropriate entities for steel items required to be cast into concrete or embedded in masonry.

3.3 INSTALLATION

- A. Install metal fabrication items in accordance with Drawings and approved shop drawings.
- B. Coordinate and furnish anchorages, setting drawings, diagrams, templates, instructions, and directions for installing anchorages, including concrete inserts, sleeves, anchor bolts, and miscellaneous items having integral anchors that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to Project site.
- C. Install items plumb and level, accurately fitted, free from distortion or defects.
- D. Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
- E. Field weld components as indicated on Drawings.
- F. Perform field welding in conformance with AWS D1.1 or appropriate AWS standard for procedures of manual shielded metal-arc welding, appearance and quality of welds made, methods used in correcting welding work, and the following:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so that no roughness shows after finishing and contour of welded surfaces matches those adjacent.
- G. Obtain approval from the Engineer prior to site cutting or making adjustments not scheduled.

3.4 SETTING LOOSE PLATES

- A. Clean concrete and masonry bearing surfaces of any bond-reducing materials, and roughen to improve bond to surfaces. Clean bottom surface of bearing plates.
- B. Set loose leveling and bearing plates on wedges, or other adjustable devices. After the bearing members have been positioned and plumbed, tighten the anchor bolts. Do not remove wedges or shims, but if protruding, cut off flush with the edge of the bearing plate before packing with grout. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.

3.5 HOLES

- A. Prepare required holes in steel members for attachment or passage of work of other trades.
- B. Hole burning to make or enlarge holes is allowed only with prior approval of the Engineer. Enlarge holes only by reaming.
- C. Cut, drill, or punch holes at right angles to the surface of the metal.
- D. Holes shall be clean-cut without torn or ragged edges.
- E. Remove outside burrs resulting from drilling or reaming operations with a tool making a 1/16 inch bevel.
- F. Punch, drill, or ream holes for anchor bolts in base and bearing plates. Do not make or enlarge the holes by burning except for grouting holes in column bases.
- G. Where the steel thickness is equal to or less than diameter of the bolt plus 1/8 inch, holes may be punched 1/16 inch larger than the nominal diameter of the bolt.
- H. Where the steel is thicker than the diameter of the bolt plus 1/8 inch, the holes shall be drilled or sub-punched and reamed. Diameter of sub-punched holes, and the drill for sub-punched holes, shall be 1/16 inch smaller than the nominal diameter of bolt to be installed.
- I. Precisely locate finished holes to ensure passage of bolts through steel assemblies without drifting. Poor matching of holes is cause for rejection.

3.6 BOLTING

- A. General (Not Including High-Strength):
 - 1. Drive bolts into the holes without damaging the thread. Protect bolt heads from damage during driving.
 - 2. Bolt heads and nuts shall rest squarely against the metal.
 - 3. Where bolts are to be used on beveled surface having slopes greater than 1 to 20 with a plane normal to the bolt axis, beveled washers shall be provided to give full bearing to the head or nut.
 - 4. Upset bolt threads to prevent the nuts from backing off.
- B. Unfinished Bolts:
 - 1. Unfinished bolts shall be of the length that will extend through but no more than 1/4 inch beyond the nuts.
 - 2. Bolt heads and nuts shall be drawn tight against the work.
 - 3. Bolt heads shall be tapped with a hammer while the nut is being tightened. After having been finally tightened, bolt threads shall be upset to prevent the nuts from backing off.
- C. Bolted Field Connections at Supports:
 - 1. Standard bolts shall be of a length that will extend not less than 1/4 inch beyond the nuts. Enter bolts into holes without damaging the threads and bolt heads
 - 2. Bolt heads and nuts shall rest squarely against the metal.
 - 3. Where bolts are to be used on beveled surface having slopes greater than 1 to 20 with a plane normal to the bolt axis, beveled washers shall be provided to give full bearing to the head or nut.
 - 4. Upset bolt threads to prevent the nuts from backing off.
 - 5. Correct poor matching of holes by drilling to next larger size and use of larger size bolt. Obtain written approval from the Engineer before proceeding with corrective work.

3.7 WELDED CONNECTIONS

- A. Do not begin welding until joint elements are bolted or tacked in intimate contact and adjusted to dimensions shown on Drawings, with allowance for weld shrinkage that is expected. Weld heavy sections and those having a high degree of restraint with low hydrogen type electrodes. No members shall be spliced without prior approval by the Engineer.
- B. Weld in conformance with AWS D1.1.
 - 1. Welds exposed to view shall have as-welded surfaces that are continuous, smooth, and uniform. Radii shall be true and consistent from weld to weld. Finishing or grinding may be required where clearances or fit of other items may require.
- C. Perform intermittent welding, continuous welding, and straightening of built-up sections to minimize internal stresses. Built-up sections assembled by welding shall be free of warpage. Each axis shall have true alignment.
- D. Welds not specified shall be continuous fillet welds. Use minimum fillet in conformance with AWS requirements.
- E. Clean surfaces to be welded of paint, grease, loose scale, and foreign matter. Clean welds each time electrode is changed or a new pass started. Chip clean burned or flame cut edges before depositing welds.
- F. Same electrode may be used with various thicknesses of plates, but change current used and number of passes made proportionately.
- G. After being deposited, brush welds with wire brushes. Welds shall exhibit uniform section, smoothness of welded metal, feather edges without undercuts or overlays, and freedom from porosity and clinkers. Visual inspection at edges and ends of fillets and butt joint welds shall indicate good fusion with penetration into base metal.
- H. During assembling and welding keep parts straight and in close contact. Take precautions to minimize "lock-up" stress and distortion due to heat. Do not weld during windy conditions unless wind protection is provided. Cut-out and replace welds found to be defective.
- The maximum space between pieces or members to be butt welded shall not exceed 1/4 inch. Bevel pieces or members up to 3/8 inch thickness to form single or double "Vee" before being welded. Bevel pieces over 3/8 inch thickness to form a double "Vee" whenever possible. Lay and size fillet welds as shown on Drawings. Measure only effective portion of fillet welds. Maximum space between pieces or members to be fillet welded shall not exceed 1/16 inch.

3.8 CORRECTIVE WORK

- A. Members or assemblages of work having fabrication errors, or which exceed permissible tolerances, or which have errors or deformations preventing assembly and fitting of parts, shall be reported immediately to the Engineer before incorporation in the finished work.
- B. Such members or assemblages shall be corrected if permitted by the Engineer, otherwise, they shall be replaced at Contractor's expense.
- C. Submit drawings showing the corrections and obtain acceptance prior to performing any corrective work.

3.9 REPAIR OF DAMAGED GALVANIZING

A. Repair damaged galvanizing in conformance with TREATING DAMAGED GALVANIZING Section.

3.10 FIELD QUALITY CONTROL

- A. Tests and Inspections:
 - 1. Tests and inspections by independent test laboratory shall include, but is not limited to, the following:
 - a. Shop and field welded connections shall be continuously visually inspected except for welding done in a City of Los Angeles Department of Building and Safety licensed shop.
 - b. Defects shall be corrected and a statement of final approval shall be received from the Engineer before fabrications are installed.

3.11 CLEANING AND TOUCH-UP PAINTING

A. No painting required, only galvanized.

END OF SECTION

Section 32 31 19

- PART 1 GENERAL
- 1.1 SECTION INCLUDES
 - A. Decorative fences, gates, and accessories
- 1.2 RELATED SECTIONS
 - A. Section 05 05 14 TREATING DAMAGED GALVANIZING
 - B. Section 05 50 00 METAL FABRICATIONS

1.3 PRICE AND PAYMENT PROCEDURES

- A. Measurement and Payment:
 - 1. Payment for Work of this Section shall be paid under the Lump Sum Construction bid item of Bid Proposal Line Items.
- 1.4 SUBMITTALS
 - A. Submit manufacturer's literature and samples prior to fabrication.
- 1.5 DELIVERY, STORAGE, AND HANDLING
 - A. Upon receipt at Project Site, materials shall be checked to ensure that no damage occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism, and theft.
- PART 2 PRODUCTS
- 2.1 MANUFACTURER
 - A. Steel Fencing, Gate, Hinges and Hardwares for swing
- 2.2 FENCE MATERIALS
 - A. The material for fence framework shall be high-tensile steel, double drawn wire, and rod.
 - B. Mesh: Match Existing Corrugated Wiring to be 0.25 inches diameter thickness, welded. Mesh openings shall be 1 inch by 1 inch. Mesh shall fill in each typical panel section.

- C. Posts: Consists of rectangular tube 3 inches by 3 inches with welded anchor plate 9 inches by 9 inches. Infilled with mesh, size typical for panel. Overall post length shall be 6 feet 10 1/2 inches.
- D. Bolts: Consists of stainless steel one-way vandal resistant Type V2A stainless steel bolts, refer to structural drawing for sizes.
- E. Fabric and Post Assembly: Posts shall be spaced per drawing dimension. Mesh to end in slotted channel on the surface of post. Bolts to be passed through backing plate.
- F. Corrosion Protection: Material, unless otherwise indicated on Drawings, shall be hot-dip galvanized after fabrication with minimum zinc layer of 1.8 ounces per square foot (oz./sq. ft.), stainless steel sandblasted for optimum coating adhesion, and polyester powdercoated in non-lead, UV stable, thermally set RAL Tiger Drylac powder paints, or equivalent.
- G. Color: Finish paint is not in scope. Only requires hot-dip galvanized finish.

2.3 SWING GATE MATERIAL

- A. Steel Gate Post: Consists of rectangular tube 6 inches by 6 inches by 0.25 inches thickness. Where gate post abuts fence, gate post shall receive welded mesh wire at 1 inch by 1 inch opening by 0.25 inch diameter thickness, mesh sizes per drawing dimension, clamping strips to accept and hold mesh, welded to post.
- B. Gate Wings: Frames shall be welded rectangular steel tube 3 inches by 3 inches by 0.25 inches thickness or larger to be infilled with mesh to match fence, clamping strips to accept and hold mesh, welded to post.
- C. Mesh: Consists of corrugated steel wire. Refer to architectural drawing for panel size. Mesh openings shall be 1 inch by 1 inch, 0.25 inches diameter thickness.
- D. Corrosion Protection: Material, unless otherwise indicated on Drawings, shall be hot-dip galvanized after fabrication with minimum zinc layer of 1.8 oz./sq.

ft., stainless steel sandblasted for optimum coating adhesion, polyester powdercoated in non-lead, UV stable, thermally set RAL Tiger powder paints, or equivalent.

E. Color: Finish paint is not in scope. Only requires hot-dip galvanized finish.

PART 3 - EXECUTION

- 3.1 INSTALLATION
 - A. Install fence in accordance with Drawings and manufacturer's written instructions.

END OF SECTION

Appendix "A"



VOC CONTENT VERIFICATION CHECKLIST

(2017 Los Angeles Green Building Code)



VOC content verification of paints, coatings, carpets, cushions, resilient flooring, adhesives, sealants, and caulks.

<u>This form is required at final inspection. Attach product specification sheets and other supporting documents</u>. (Use additional sheets if necessary.)

Address: _____

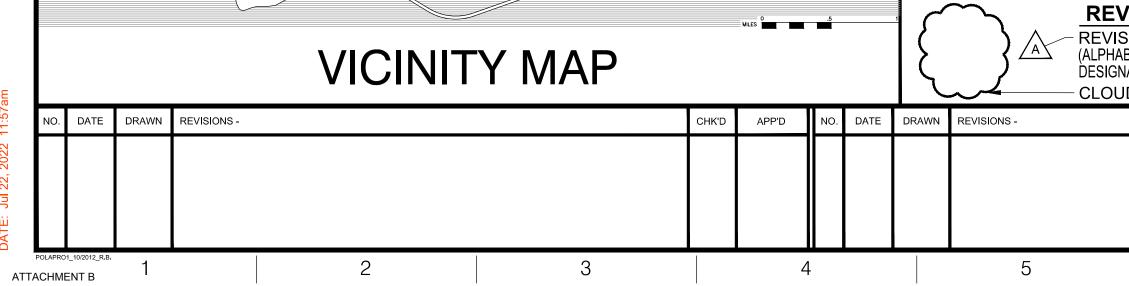
Permit # ______ - _____ - _____

| ltem # | Product Category (e.g. paint, carpet, adhesive) | Product Manufacturer | Product Specification | VOC Content (in grams / liters) or Test Certification (See product label or MSDS) | Allowable VOC Limits * (in grams / liters) |
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Allowable limits can be found in LAGBC Tables 4.504.1, 4.504.2, 4.504.3, 5.504.4.1, 5.504.4.2, and 5.504.4.3 (also provided on form GRN 11)

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. ATTACHMENT A

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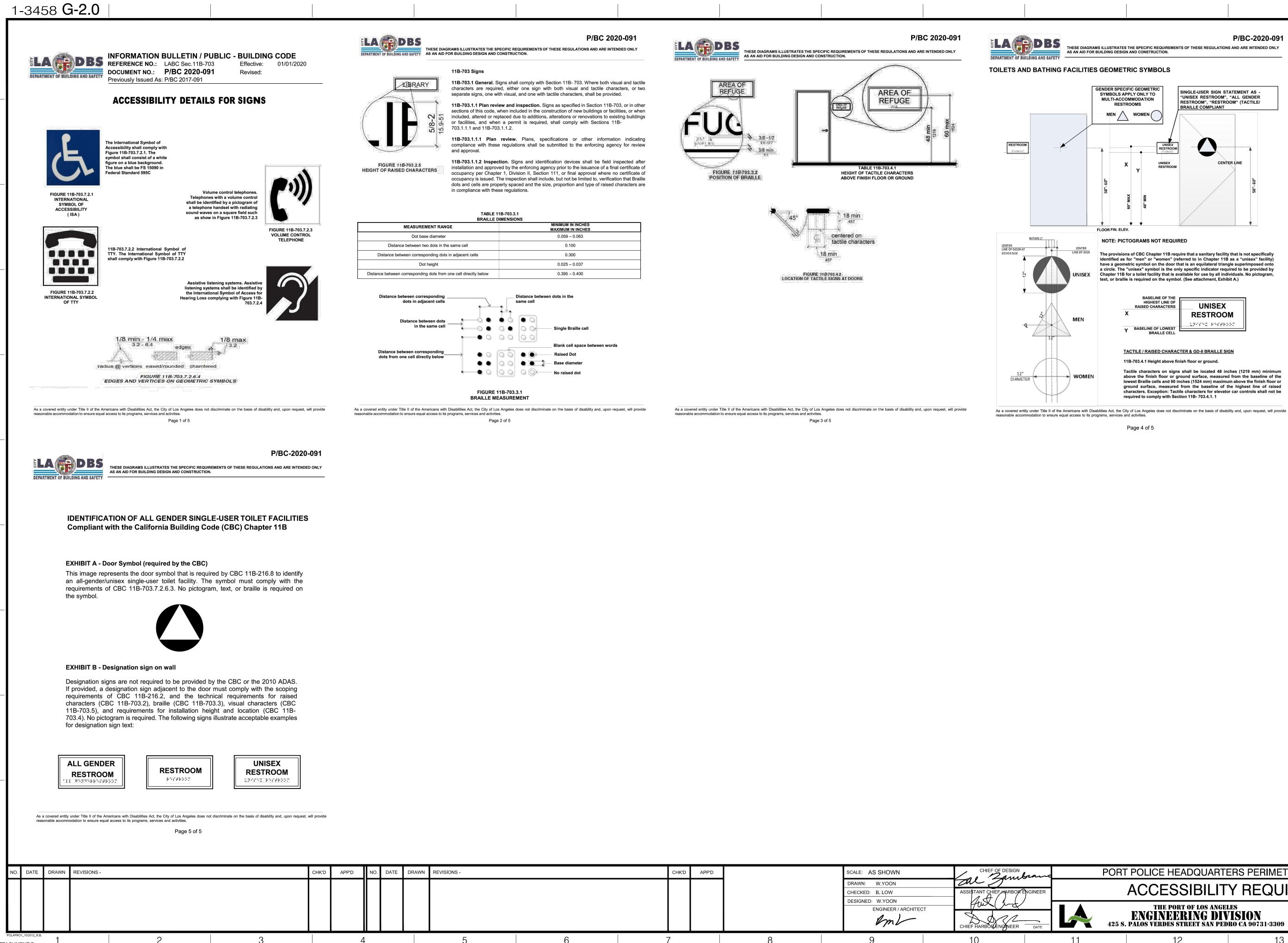
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| NMG AMERICAN WINETE WORKS DG DECOMPOSE DENAITE NWWA AMERICAN WATER WORKS DN DOWN ASSOCIATION DO DITTO (REPEAT) S BERTH DP DEEP DEPTH SNOT BOTTOM DWG DRAWING SNOT BOTTOM DWF DEPARTMENT OF WATER AND SNOT BOUNDARY DEPARTMENT OF WATER AND POWER SHE BEGINNING DWP DEPARTMENT OF WATER AND SHE BEROE FRAME, BACKFLOW EXT ELECTRICAL SHE BET BERMER MACKFLOW EA EACH SH BRACE FRAME, BACKFLOW EA EACH EACH SH BRACE FRAME, BACKFLOW EA EACH EACH SHO BUILDING EG EXISTING GRADE EACH FACE SUD BUILDING EG EXISTING GRADE EACH FACE SUD BUILTING EG EXISTING GRADE EACH FACE SUD BUILTING EACHFLOW EA <td></td> <td></td> <td>DF</td> <td></td> | | | DF | |
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| Sect BERN H DWG DRAWING SNOT BOTOM DWL DOWELS SAL BALANCE DWP DEPARTMENT OF WATER AND SD BOARD POWER DEPARTMENT OF WATER AND DRY BOUNDARY DEPARTMENT OF WATER AND POWER SEL BEGINNING DEPARTMENT OF WATER SERVICE EDEPARTMENT OF WATER SERVICE SET BETWEEN EFLEC/(E) EAST, ELECTRICAL AND TELEPHONE SHD BLIKHEAD EBF ECCENTRIC BRACE FRAME SHD BULKHEAD EBF ECCENTRIC BRACE FRAME SLG BULKHEAD EG ENSTING GRADE SLG BLOCK EF EACH SLG BLOCK EF EACH FACE SLVD BOULEVARD EJ EXPANSION JOINT SRG BAAM ELT EVER LOW TIDE SRG BAAMING ELT EVER LOW AND SUB BACK UP BAR EP, EOP EDGE OF PAVEMENT SUB BACK UP BAR EP, EOP </td <td></td> <td></td> <td></td> <td>, ,</td> | | | | , , |
| SHOT BAL DOWL DOWEL SAL BALANCE DWP DEPARTMENT OF WATER AND BD BOARD POWER BD BOUNDARY DWPWS DEPARTMENT OF WATER AND SEG BEGINNING DWPWS DEPARTMENT OF WATER AND SEL BELOW DEPARTMENT OF WATER AND SET BETWEEN ELECTRICAL AND TELEPHONE SHOT BRACE FRAME, BACKFLOW EA SHO BULLVARD EBF ECCENTRICAL AND TELEPHONE SHC BULDING EF EACH SHCB BULOKING EG END CURVE SIKG BLOCKING EF EACH FACE SIKG BLOCKING EG EXISTING GRADE SIKG BLOCKING ELT EVER LOW TIDE SIKG BLOTON SEE EXTIMING RADE SIKG | 3 | BERTH | | |
| AL BALANCE DWP DEPARTMENT OF WATER AND POWER BD BOARD POWER POWER BDRY BOUNDARY DWPWS DEPARTMENT OF WATER AND POWER WATER SERVICE BEG BEGINNING POWER POWER SET BETWEEN EFT ELECTRICAL AND TELEPHONE SKH BASIC INSULATION LEVEL EVELEC/(E) EAST, ELECTRICAL AND TELEPHONE SKH BENCE FRAME, BACKFLOW EA EACH SKH BLOCK EF EACH SLG BULKHEAD EG EXISTING GRADE SLWD BOULEVARD EJ EXPANSION JOINT SM BAM ELELEV ELEVATION SRG BARNING ELT EVER LOW TIDE SRG BARNING EN ENSEMED EMBEDMENT SUD BUILT-UP ENCSD ENCASE ENCASE SUB BACK-UP BAR EP, EOP EDGE OF PAVEMENT CONDUIT EQUIP ENDER ENGRE ENSISTANT C/L/Q | 3/BOT | BOTTOM | | |
| BURY BOUNDARY POWER DBRY BOUNDARY DWPWS DEPARTMENT OF WATER AND PEG BELOW POWER WATER SERVICE PET BETWEN E/ELEC/(E) EAST, ELECTRICAL SR BASIC ISSULATION LEVEL E/ELEC/(E) EAST, ELECTRICAL SKHD BUILLING EA EACH BLOG BUILLING EG END CURVE SKKD BLOCKING EG EXISTING GRADE BLKG BLOCKING EG EXISTING GRADE SLKG BLOCKING EG EXISTING GRADE SLKG BLOCKING EG EXISTING GRADE SLKG BLOCKING ELF EVER LOW TIDE SLKG BLOCKING ELF EVER LOW TIDE SLKG BLOCKING ELT EVERLOW TIDE SLKG BLOCKING ELT EVERLOW TIDE SLKG BARING ELT EVERLOW TIDE SS BOTTOM STEP EMH ELCTRICAL MANHOLE SU BUILT-UP ENGRE ENGREEN SUB BACK-UP BAR EQUIP EQUIP SG CONDUIT EQUIP EQUIP C/G CONDUT EQUIP EQUIA | | | | |
| BEG DEGINING DWPWS DEPARTMENT OF WATER SERVICE BEL BELOW POWER WATER SERVICE POWER WATER SERVICE SET BETWEEN E/ELEC/(E) EAST, ELECTRICAL SIL BASIC INSULATION LEVEL E/T ELECATRICAL AND TELEPHONE SIL BASIC INSULATION LEVEL E/T ELECATRICAL AND TELEPHONE SIL BASIC INSULATION LEVEL E/T ELECATRICAL AND TELEPHONE SILM BULDING EBF ECCENTRIC BRACE FRAME SUDG BUILDING EBF ECCENTRIC BRACE FRAME SILKG BLOCKING EF EACH FACE SILKG BLOCKING EG EXISTING GRADE SILVD BOULEVARD EJ EXPANSION JOINT SIL BOTTOM EL/ELEV ELEVATION SILVD BOTTOM STEP EMB/EMBED EMBEDMENT SIG BACK-UP BAR ENCSD ENCASED SUB BACK-UP BAR EP, EOP EDGE OF PAVEMENT C/C/C CONDUIT EQ EQUIP EQUIP C/BA CIRCUIT BREAKER ES EACH SIDE C/C/C CONTERL ES EACH SIDE C/C/C CENTER TO CENTER ES EACH SIDE | | | | POWER |
| BEL BELOW POWER NATER SERVICE BAT BETWEIN E/ELEC/(E) EAST, ELECTRICAL BASIC INSULATION LEVEL E/T ELECTRICAL AND TELEPHONE SHD BASIC INSULATION LEVEL E/T ELECTRICAL AND TELEPHONE SHD BULKHEAD EBF ECCENTRIC BRACE FRAME SLOG BULLDING EG EXISTING GRADE SLK BLOCKING EG EXISTING GRADE SLVD BOULEVARD EM ELECTRICAL MANHOLE SUD BOULTARD EMB EMBEDMENT SS BOTTOM STEP EMH ELECTRICAL MANHOLE SUB BACK-UP BAR ENGR ENGRERE SUB BACK-UP BAR ENGR EQUIP </td <td></td> <td></td> <td>DWPWS</td> <td></td> | | | DWPWS | |
| BIL BASIC INSULATION LEVEL EVELED(E) EASIC INSULATION LEVEL BF BRACE FRAME, BACKFLOW ET ELECTRICAL AND TELEPHONE SKHD BULKHEAD EBF ECCENTRIC BRACE FRAME SLG BULDING EC END CURVE SLK BLOCK EC END CURVE SLK BLOCK EG EXISTING GRADE SLK BLOCKING EG EXISTING GRADE SLVD BOULEVARD EJ EXPANSION JOINT MID BEAM ELFLEUV ELEVATION 30T BOTTOM ELE EVER LOW TIDE 30G BARN ELFLEUR EVER LOW TIDE 30G BARNG EMH ELECTRICAL MANHOLE 30T BOTTOM STEP EMGR ENGINEER 30B BACK-UP BAR ENGR ENGINEER 30B BACK-UP BAR EQUIP EOUPMENT C CONDUIT EQ EQUIPMENT C/L/Q CENTERLINE EST EST C/L/Q CENTERLINE EST EST C/L/Q CENTERLINE EV EACH MAY C/L/Q CENTERLINE EXEXISTINT C/L/Q CENTERLINE EXEXISTINT | | | | POWER WATER SERVICE |
| DIL DISID INSULTION LEVEL E/T EIT FL ELEPHONE 3F BRACE FRAME, BACKFLOW EA EACH EACH SKHD BULKHEAD EBF ECCENTRIC BRACE FRAME BACE SLG BULDING EBF ECCENTRIC BRACE FRAME BACE SLKG BLOCKING EG ENTING GRACE FRAME SLKG BLOCKING EG EXTING GRACE FRAME SLKG BLOCKING EG EXTING GRACE FRAME SLVD BOULEVARD EJ EXPANSION JOINT BUD MM BCAM EL/ELEV ELVATION ELVELVATION SOT BOTTOM STEP EMH ELECTRICAL MANHOLE BUD SUB BACK-UP BAR ENGR ENGINEER EG CONALITON EQ EQUAL SUB BACK-UP BAR ENGR ENGR ENGINEER EG CONALITON EQ EQUAL EQUAL EQUAL EQUAL EXASED EXASED EXASED EXASED <td>BET</td> <td>BETWEEN</td> <td></td> <td></td> | BET | BETWEEN | | |
| BHADE BHADE HEADE EA EACH SHDD BULKHEAD EBF ECCENTRIC BRACE FRAME SLOG BULDING EC END CURVE SLK BLOCK EC END CURVE SLKG BLOCKING EG EXISTING GRADE SLVD BOULEVARD EJ EXPANSION JOINT MI BEARING ELT EVER LOW TIDE SIG BARG BLAT EVER LOW TIDE SIG BARNING ELT EVER LOW TIDE SIG BARNING ENGR EMH ELECTRICAL MANHOLE SIWN BETWEEN ENCSD ENCASED ENCASED SUB BACK-UP BAR EQUIP ENGR EGINEER SUB BACK-UP BAR EQUIP EOUIPMENT C/C CONDUIT EQ EQUIP EOUIPMENT C/C/Q CENTER TO CENTER EX EACH SIDE C/C/C/Q CENTER TO CENTER ES EACH SIDE CALIFORNIA EX< | | | | |
| BLDGBUILDINGEBFECCENTRICE PRAMEBLKBLOCKECEND CURVEBLKBLOCKEFEACH FACEBLKDBOULEVARDEGEXISTING GRADEBAWBEAMEJEXPANSION JOINTBOTTOMBELTEVER LOW TIDEBRGBEARINGELTEVER LOW TIDEBRGBEARINGEMBEMBEDEMBEDMENTSSBOTTOM STEPEMHELECTRICAL MANHOLEBUBUILT-UPENCSDENCASEDSUBBACK-UP BARENG ENCINERSUBBACK-UP BARENG EOPEDGE OF PAVEMENTCCONDUITEQEQUPEQUIPMENTC/L/QCENTER TO CENTERESEACH SIDEC/L/QCENTER TO CENTERESEACH SIDEC/L/QCENTER TO CENTERESEACH SIDECAMB(C)CAMBER(ED)EVELCTRIC VEHICLECALCALIFORNIAEXXISTI/(E)EXSTINGCACANTILEVEREXTEXTENTIONCACANTILEVEREXTEXTENTIONCACONSTRUCTION JOINT, CONTROLFAFIRE ALARMCMBCANTILEVEREXTEXTERIORCACONTINUOUS LOAD, CEMENTFIP OPFIBED ROPTICCINCCONTINUOUS LOAD, CEMENTFIP OPFIBED ROPTICCINCCONTINUOUS LOAD, CEMENTFIP OPFIBED ROPTICCINCCONTINUOUS LOAD, CEMENTFIP OPFIBED ROPTICCINCCONSTRUCTION JOINT, CONTROLFAFIRE HUDRANT< | | | | |
| BLK BLOCK EC END CURVE BLKG BLOCKING EF EACH FACE BLKG BOULEVARD EG EXPANSION JOINT BAM BEAM EJ EXPANSION JOINT BOT BOTLEVARD ELELEV ELEVANSION JOINT BAT BOTTOM ELLELEV ELEVANSION JOINT BAG BEARING ELELEV ELEVANSION JOINT BAG BARNG ELT EVER LOW TIDE BAG BARNG EMB/EMBED EMBEDMENT BAS BOTTOM STEP EMH ELECTRICAL MANHOLE BU BUILT-UP ENGR ENGRER BUB BACK-UP BAR ENGR ENGINEER BUB BACK-UP BAR EQ EQUIP CONDUIT CONDUIT EQ EQUIPMENT C/C CONDUIT EQUIP EQUIPMENT C/C CONDUIT EQUIP EQUIPMENT C/C CONDUIT EQUIP EQUIPMENT C/C CONTERLINE EXPANSION JOINT C/L/Q CENTER TO CENTER ES EACH SIDE C/L/Q CENTER TO CENTER ES EACH WAY C/L/Q CALIFORNIA EV ELECTRIC VEHICLE | | | EBF | ECCENTRIC BRACE FRAME |
| BLKGBLOCKINGEPEACH FACEBLVDBOULEVARDEGEXISTING GRADEBLVDBEAMEJEXPANSION JOINT30TBOTTOMEL/ELEVELEVATION30TBOTTOMELTEVER LOW TIDE33TBOTTOM STEPEMB/EMBEDEMBEDMENT34SBOTTOM STEPEMHELCTRICAL MANHOLE35WBUILT-UPENCSDENCASED30UBUILT-UPENGRENGRER30BBACK-UP BARENGREQUIP30CCONDUITEQEQUIPMENT5%CIRCUIT BREAKEREQUIPEQUIPMENT5%CIRCUIT BREAKERERJEARTHQUAKE RESISTANT5%CIRCUIT BREAKERESEACH SIDE5ALCALFORNIAEVESTESTIMATE5ABCRUSHED AGGREGATE BASEESEACH SIDE5ABCAUSHED AGGREGATE BASEESTESTIMATE5ABCATCH BASINEV/EXISTINGEXISTING5ABCATCH BASINEX/EXISTI/(E)EXISTING5CCONSTRUCTION JOINT, CONTROLFAFIRE ALARM5D/FCONSTRUCTION JOINT, CONTROLFAFIRE ALARM5D/FCONSTRUCTION JOINT, CONTROLFAFIRE ALARM5D/FCONTINUOUS LOAD, CEMENTFIDFIDR5D/FCONTINUOUS LOAD, CEMENTFIDFIBE OPTIC1/NEDLINEDFIGFINISHED GRADE5D/FCONTINUOUS LOAD, CEMENTFIGFINISHED GRADE5D/FCONTINUOUS LOAD, CEME | | | | |
| BUUL BUUL EVANDEJEXPANSION JOINTBMBEAMEL/ELEVELEVATION30TBOTTOMELTEVER LOW TIDE3RGBEARINGEMTEVER LOW TIDE3RGBOTTOM STEPEMB/EMBEDEMBEDMENT3SBOTTOM STEPEMCSDENCASED3WBUILT-UPENCSDENCASED3UBUILT-UPENGRENGINEER3UBUILT-UP BAREQEQUALCCONDUITEQEQUPC/L/QCENTERLINEERJEARTHOUAKE RESISTANTC/L/QCENTERLINEESTESTC/L/QCENTER TO CENTERESTESTCABCRUSHED AGGREGATE BASEESEACH SIDECAMB(C)CAMBER(ED)EVELECTRIC VEHICLECAMB(C)CAMBER(ED)EX/EXIST/(E)EXISTCAGCENTER OF GRAVITYEXPEXPANSIONCAGCENTER OF GRAVITYEXPEXTERIORCIPCAST IRON PIPEEXTEXTERIORCIPCAST IRON PIPEFAFIRE ALARMCJLPCOMPLETE JOINT PENETRATIONFDRFEEDERCJLCONTINUOUS LOAD, CEMENTFIDFIDCJLCONTINUOUS LOAD, CEMENTFIP OPFIBER OPTICLINEDCASSHED MISCELLANEOUS BASEFINFINISHED GRADECJLCONSTRUCTION JOINT, CONTROLFAFIRE LANE, FLOORCJLCONTINUOUS LOAD, CEMENTFIP OPFIBER OPTICLINEDCAST IRON PIPEFINFINISHED GRADE< | | | | |
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| S01BOT TOMELTEVER LOW TIDEBRGBEARINGEMB/EMBEDEMB/EMBEDEMB/EMBED388BOTTOM STEPEMB/EMBEDEMB/EMBED388BOTTOM STEPEMB/EMBEDEMB/EMBED380BUILT-UPEMS/EMBEDENCASED380BUILT-UPENGRENGR380BULT-UPENGRENGR380BACK-UP BAREP, EOPEDGE OF PAVEMENT591CONDUITEQEQUIPMENT593CRUIT BREAKEREQUIPEQUIPMENT594CIRCUIT BREAKERERJEARTHQUAKE RESISTANT595CATCH TO CENTERESEACH SIDE594CRUSHED AGGREGATE BASEESEACH SIDE594CATCH BASINEVELECTRIC VEHICLE594CATCH BASINEV/EXIST/(E)EXISTING594CATCH BASINEX/EXIST/(E)EXISTING595CATCH BASINEX/EXIST/(E)EXISTING596CATCH BASINEX/EXIST/(E)EXISTING597COMFLETE JOINT PENETRATIONFDRFEEDER509COMPLETE JOINT PENETRATIONFDRFEEDER509COMPLETE JOINT PENETRATIONFDRFEEDER504CATCH MORTAR COATINGFAFIN FINSHED GRADE504CALEARFINFINSHED GRADE504CAUSHED MISCELLANEOUS BASEFINFINSHED GRADE504CONCRUGATED METAL ININGFLEXFLEXIBLE504CONCRUGATED METAL ININGFLEXFLEXIBLE | | | | |
| BSBOTTOM STEPEMB/EMBLOEMB/EMBLOEMB/EMBLOEMB/EMBLOEMB/EMBLOEMB/EMBLOEMB/EMBLOEMB/EMBLOEMB/EMBLOEMB/EMBLOEMB/EMBLOEMB/EMBLOEMBLOMENT3TWNBETWEENBUTWEENENCSDENCASEDENCASEDENCASED3UBBACK-UP BARENCSDENGREEREQUIPEQUIPLECT TRICAL MANHOLE3UBBACK-UP BAREP, EOPEDGE OF PAVEMENTEQC/CCONDUITEQEQUIPEQUIPMENTC/BCIRCUIT BREAKEREQUIPEQUIPMENTC/CCENTER TO CENTEREXPANSION JOINTC-CCENTER TO CENTEREXPANSION JOINTC-CCONSTRUCTORIAESTESTIMATECALLFORNIAEVELECTRIC VEHICLECAMB(C)CAMBER(ED)EWEACH WAYCANTILEVEREX/EXIST/(E)EXISTINGCANTILEVEREX/EXIST/(E)EXISTINGCGCENTER OF GRAVITYEXTEXTERIORCDCCONSTRUCTION JOINT, CONTROLFAFIRE ALARMCJPCONSTRUCTION JOINT, CONTROLFDCFIRE ALARMCJCPCONSTRUCTION JOINT, CONTROLFDCFIRE ALARMCJCPCOMPLETE JOINT PENETRATIONFDRFEUDERCJCCONTINUJOUS LOAD, CEMENTFIDFIGURECLGCLINEDFIGFINISHED GRADECLGCEILINGFINFINISHED GRADECLGCEILINGFINFINISHED GRADECLGCEILINGFINFINISHED GRADEC | | | | |
| BTWNBETWEENEMHELECTRICAL MANHOLEBUBUILT-UPENGRENGASEDBUBBACK-UP BAREP, EOPEDGE OF PAVEMENTCCONDUITEQEQUIPC/BCIRCUIT BREAKEREQUIPEQUIPMENTC/CL/QCENTERLINEERJEARTHQUAKE RESISTANTC/CL/QCENTERLINEEXPANSION JOINTC-CCENTER TO CENTERESTESTCALCALIFORNIAEVELECTRIC VEHICLECAMBC()CAMBER(ED)EWEACH WAYCANTCANTIEVEREX/EXIST/(E)EXISTINGCANTCANTIELVEREX/EXIST/(E)EXISTINGCGCENTER OF GRAVITYEXPEXPANSIONCGCENTER OF GRAVITYEXPEXTERIORCIPCAST IN PLACEFAFIRE ALARMCJPCOMPLETE JOINT PENETRATIONFDRFEDDERCJPCOMPLETE JOINT PENETRATIONFDNFOUNDATIONCLCONTINUOUS LOAD, CEMENTFIGFINISHED GRADECLRCIELINGFHFINISHED GRADECLRCLEARFINFINISHED GRADECLRCLEARFINFINISHED GRADECLRCLEARFINFINISHED GRADECLRCONTINUOUS LOAD, CEMENTFIGFINISHED GRADECLRCLEARFINFINISHED GRADECLRCLEARFINFINISHED GRADECLRCLEARFINFINISHED GRADECLRCLEARFINFINISHED GRADECMM | | | EMB/EMBED | EMBEDMENT |
| BUBUILT-UPENCSUENCASEDBUBBACK-UP BARENGRENGRENGRERBUBBACK-UP BAREQEQUALCCONDUITEQEQUIPEQUIPMENTC/CCONDUITEQUIPEQUIPMENTC/CCENTERLINEERJEARTHQUAKE RESISTANTC/CL/QCENTER TO CENTERESEACH SIDECACRUSHED AGGREGATE BASEESEACH SIDECALCALIFORNIAEVELECTRIC VEHICLECAMB(C)CAMBER(ED)EWEACH WAYCANTCANTILEVEREXEXIST/(E)EXISTINGCBCATCH BASINEXEXIST/(E)EXISTINGCGCENTER OF GRAVITYEXPEXPANSIONCGCENTER OF GRAVITYEXPEXPANSIONCIPCAST INO PIPEEXTETERIORCJPCAST INO PIPEFAFIRE ALARMCJPCONSTRUCTION JOINT, CONTROLFAFIRE ALARMCJPCONSTRUCTION JOINT, CONTROLFAFIRE DEPARTMENT CONNECTIONJOINTJOINTFDRFEEDERCLGCONTINUOUS LOAD, CEMENTFIGFIGURECLGCEILINGFGFINISHED GRADECLGCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMCCEMENT MORTAR LININGFLFLOW LINE, FIRE LANE, FLOORCMCCORRUGATED METAL PIPEFLGFLANGECMDCONCRETE MASONRY UNITFLL | | | | |
| 30B BACK-UP BAR EP, EOP EDGE OF PAVEMENT C CONDUIT EQ EQUAL C/B CIRCUIT BREAKER ERJ EARTHQUAKE RESISTANT C/CL/Q CENTERLINE EXPANSION JOINT EXPANSION JOINT C-C CENTER TO CENTER ES EACH SIDE CAL CRUSHED AGGREGATE BASE ES EACH SIDE CAL CALIFORNIA EV ELECTRIC VEHICLE CAMBER(ED) EW EACH WAY CANT CANTLEVER EXXEXIST/(E) EXISTING CB CATCH BASIN EXY EXERT CG CENTER OF GRAVITY EXP EXPANSION CIC/IP CAST INO PIPE EXT EXTERIOR CJP CAST INO PIPE EXT EXTERIOR CJP CONSTRUCTION JOINT, CONTROL FA FIRE ALARM CJP CONSTRUCTION JOINT, CONTROL FDR FEEDER CJP CONSTRUCTION JOINT, CONTROL FIG FIRE ALARM CJP COMPLETE JOINT PENETRATION FDR FEEDER CLG CONTINUOUS LOAD, CEMENT FIG FIGURE CLG CONTINUOUS LOAD, CEMENT FIG FIGURE CLG CELAR FIN FINISHED GR | | | | |
| CCONDUITEQEQUALC/BCIRCUIT BREAKEREQUIPEQUIPMENTC/C/QCENTERLINEERJEARTHOUAKE RESISTANTC/C/QCENTERLINEEXPANSION JOINTC-CCENTER TO CENTERESCABCRUSHED AGGREGATE BASEESCALCALIFORNIAEVCAMBER(ED)EVELECTRIC VEHICLECAMTCANTILE/VEREWCANTCANTILE/VEREX/EXIST/(E)CBCATCH BASINEX/EXIST/(E)CGCENTER OF GRAVITYEXPCBCATCH DASINEXTERIORCI/CIPCAST IN PLACEFACIPCAST IN PLACEFACJPCONSTRUCTION JOINT, CONTROLFACJPCONSTRUCTION JOINT, CONTROLFDRCIPCONTINUOUS LOAD, CEMENTFIGCIRCIRCUITFIGCLICONTINUOUS LOAD, CEMENTFIGCLIRCLEARFHCLIRCLEARCLRCLEARCLRCATED MISCELLANEOUS BASECINDCORRUGATED MISCELLANEOUS BASECIMBCORRUGATED METAL PIPECMLCONCRETE MASONY UNITCLRCONCRETE MASONY UNITCLRCONCRETE MASONY UNITCLACONDUIT ONLY W//COLCOLUMNCOLCOLUMNCOLCOLUMNCOLCOLUMNCOLCOLUMNCOLCONMUNICATIONSCAST IN PLACECAST IN PLACECAST IN PLACE< | BUB | BACK-UP BAR | | |
| C/BCIRCUIT BREAKEREQUIPEQUIPMENTC/CL/QCENTERLINEERJEARTHQUAKE RESISTANTC/CL/QCENTER TO CENTERESEARTHQUAKE RESISTANTC-CCENTER TO CENTERESEACH SIDEC-CCENTER TO CENTERESEACH SIDECABCRUSHED AGGREGATE BASEESEACH SIDECALCALIFORNIAEVELECTRIC VEHICLECAMB(C)CAMBER(ED)EWEACH WAYCANTCANTILEVEREWEACH WAYCBCATCH BASINEX/EXIST/(E)EXISTINGCBCATCH BASINEX/EXIST/(E)EXISTINGCBCATCH BASINEXTEXTERIORCGCENTER OF GRAVITYEXEXTERIORCJCIPCAST IRON PIPEEXTEXTERIORCJCIPCAST IRON PIPEFAFIRE ALARMCJCONSTRUCTION JOINT, CONTROLFAFIRE ALARMCJCONSTRUCTION JOINT, CONTROLFDRFEEDERCJCONSTRUCTION JOINT, CONTROLFDRFEEDERCJCONTINUOUS LOAD, CEMENTFIGFIGURECLCONTINUOUS LOAD, CEMENTFIGFIGURECLCONTINUOUS LOAD, CEMENTFIP OPFIBER OPTICCLLINEDFIGFINNISHED GRADECLGCEILINGFIFINNISHEDCLGCEILINGFIFINNISHEDCLGCEMENT MORTAR COATINGFINFINISHEDCLGCEMENT MORTAR COATINGFILFLOW LINE, FIRE LANE, FLOORCML< | 2 | | | |
| C/CL/QCENTERLINEERJEARTHQUARE RESISTANTC-CCENTER TO CENTEREXPANSION JOINTC-CCENTER TO CENTEREXPANSION JOINTCABCRUSHED AGGREGATE BASEESEACH SIDECALCALIFORNIAESTESTIMATECAMB(C)CAMBER(ED)EVELECTRIC VEHICLECANTCANTLEVEREWEACH WAYCANTCATCH BASINEX/EXIST/(E)EXISTINGCBCATCH BASINEX/EXIST/(E)EXISTINGCGCENTER OF GRAVITYEXPEXPANSIONCI/CIPCAST IRON PIPEEXTEXTERIORCIPCAST IN PLACEFAFIRE ALARMCJPCONSTRUCTION JOINT, CONTROLFAFIRE DEPARTMENT CONNECTIONCJPCOMPLETE JOINT PENETRATIONFDCFIRE DEPARTMENT CONNECTIONCLPCONTINUOUS LOAD, CEMENTFIGFIGURECLGCIRCUITFIGFIGURECLGCELINGFGFINISHED GRADECLGCEMENT MORTAR COATINGFINFINISHED GRADECLGCEMENT MORTAR COATINGFLFLFLOORCMLCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCORRUGATED METAL PIPEFLGFLANGECMLCONCRETE MASONRY UNITFLGFLANGECOLCOLUMNFNGFRAMINGCOLCOLUMNFOBFACE OF BLOCK OR BRICK | | | | |
| C-CCENTER TO CENTEREAPANSION JOINTCABCRUSHED AGGREGATE BASEESEACH SIDECALCALIFORNIAEVELECTRIC VEHICLECAMB(C)CAMBER(ED)EVELECTRIC VEHICLECANTCANTILEVEREWEACH WAYCBCATCH BASINEX/EXIST/(E)EXISTINGCGCENTER OF GRAVITYEXPEXPANSIONCGCENTER OF GRAVITYEXPEXPANSIONCGCENTER OF GRAVITYEXPEXTERIORCI/CIPCAST IRON PIPEEXTEXTERIORCJPCONSTRUCTION JOINT, CONTROLFAFIRE ALARMCJPCONSTRUCTION JOINT, CONTROLFDCFIRE DEPARTMENT CONNECTIONCJPCOMPLETE JOINT PENETRATIONFDRFEEDERCJPCONTINUOUS LOAD, CEMENTFIGFIGURECLCONTINUOUS LOAD, CEMENTFIGFIGURECLRCLEARFHFIRE HYDRANTCLRCLEARFHFIRE HYDRANTCMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCONCRETE MASONRY UNITFLGFLANGECOUCOLEANOUT, CONDUIT ONLY W/FLGFLANGECOLCOLUMNFOBFACE OF BLOCK OR BRICK | | | ERJ | |
| CABCRUSHED AGGREGATE BASEESEACH SIDECALCALIFORNIAESTESTIMATECALCALIFORNIAEVELECTRIC VEHICLECAMBER(ED)EWEACH WAYCANTCANTILEVEREWEACH WAYCBCATCH BASINEXPEXPANSIONCGCENTER OF GRAVITYEXPEXTRIORCI/CIPCAST IRON PIPEEXTEXTRICORCJ/CIPCAST IN PLACEFAFIRE ALARMCJCONSTRUCTION JOINT, CONTROLFDCFIRE DEPARTMENT CONNECTIONCJPCOMPLETE JOINT PENETRATIONFDRFEEDERCLCONTINUOUS LOAD, CEMENTFIGFIGURECLCONTINUOUS LOAD, CEMENTFIGFINISHED GRADECLRCLEARFHFIRE HYDRANTCLRCLEARFINFINISH(ED)CMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMLCORRUGATED METAL PIPEFLEXFLEXIBLECMLCONCRETE MASONRY UNITFLGFLANGECMLCONCRETE MASONRY UNITFLGFLANGECMLCONCRETE MASONRY UNITFLGFLANGECMLCONCRETE MASONRY UNITFLGFLANGECOLCOLUMNFOBFACE OF BLOCK OR BRICK | | | F0 | |
| CALLCALLFORNIAEVELECTRIC VEHICLECAMBC()CAMBER(ED)EWEACH WAYCANTICANTILEVEREWEACH WAYCBCATCH BASINEX/EXIST/(E)EXISTINGCGCENTER OF GRAVITYEXPEXPANSIONCGCENTER OF GRAVITYEXTEXTERIORCI/CIPCAST IRON PIPEEXTEXTERIORCIPCAST IN PLACEFAFIRE ALARMCJCONSTRUCTION JOINT, CONTROLFAFIRE DEPARTMENT CONNECTIONJOINTFDCFIRE DEPARTMENT CONNECTIONCJPCOMPLETE JOINT PENETRATIONFDRFEEDERCLICONTINUOUS LOAD, CEMENTFIGFIGURECLCONTINUOUS LOAD, CEMENTFIGFINISHED GRADECLRCLEARFGFINISHED GRADECLRCLEARFINFINISH(ED)CMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCONCRETE MASONRY UNITFLGFLANGECMUCONCRETE MASONRY UNITFLGFLANGECOCLEANOUT, CONDUIT ONLY W/FM/FWFORCE MAINCOLCOLUMNFOBFACE OF BLOCK OR BRICK | CAB | CRUSHED AGGREGATE BASE | | |
| CAMBER(ED)EWEACH WAYCANTCANTILEVEREX/EXIST/(E)EXISTINGCBCATCH BASINEXPEXPANSIONCGCENTER OF GRAVITYEXTEXTERIORCJCAST IRON PIPEEXTEXTERIORCI/CIPCAST IN PLACEFAFIRE ALARMCJCONSTRUCTION JOINT, CONTROLFAFIRE ALARMCJCONSTRUCTION JOINT, CONTROLFDCFIRE DEPARTMENT CONNECTIONCJPCOMPLETE JOINT PENETRATIONFDRFEEDERCLCONTINUOUS LOAD, CEMENTFIGFIGURECLCONTINUOUS LOAD, CEMENTFIGFINISHED GRADECLGCELINGFGFINISHED GRADECLRCLEARFHFIRE HYDRANTCMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCONCRETE MASONRY UNITFLGFLOW LINE, FIRE LANE, FLOORCMDCONCRETE MASONRY UNITFLLFLOW LINECOCLEANOUT, CONDUIT ONLY W/FM/FWFORCE MAINCOLCOLUMNFOBFACE OF BLOCK OR BRICK | | | | |
| CANTCANTILEVEREX/EXIST/(E)EXISTINGCBCATCH BASINEXPEXPANSIONCGCENTER OF GRAVITYEXPEXTCI/CIPCAST IRON PIPEEXTEXTERIORCIPCAST IN PLACEFAFIRE ALARMCJCONSTRUCTION JOINT, CONTROLFDCFIRE DEPARTMENT CONNECTIONJOINTCONSTRUCTION JOINT, CONTROLFDCFIRE DEPARTMENT CONNECTIONCJPCOMPLETE JOINT PENETRATIONFDRFEEDERCLCONTINUOUS LOAD, CEMENTFIGFIGURECLCONTINUOUS LOAD, CEMENTFIGFINISHED GRADECLGCEILINGFHFIRE HYDRANTCLRCLEARFINFINISHED GRADECMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCONCRETE MASONRY UNITFLGFLANGECONCLEANOUT, CONDUIT ONLY W/FMFWFORCE MAINCOCLEANOUT, CONDUIT ONLY W/FMGFRAMINGCOLCOLUMNFOBFACE OF BLOCK OR BRICK | · · / | | | |
| CGCENTER OF GRAVITYEXPEXPANSIONCI/CIPCAST IRON PIPEEXTEXTEXTERIORCIPCAST IN PLACEFAFIRE ALARMCJCONSTRUCTION JOINT, CONTROLFDCFIRE DEPARTMENT CONNECTIONJOINTCONSTRUCTION JOINT, CONTROLFDRFEEDERCJPCOMPLETE JOINT PENETRATIONFDRFEEDERCLPCONTINUOUS LOAD, CEMENTFIGFIGURECLCONTINUOUS LOAD, CEMENTFIGFINISHED GRADECLGCEILINGFGFINISHED GRADECLRCLEARFHFIRE HYDRANTCMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMDCONCRETE MASONRY UNITFLGFLANGECOCLEANOUT, CONDUIT ONLY W/FLLFLOW LINECOCLEANOUT, CONDUIT ONLY W/FMGFRAMINGCOLCOLUMNFOBFACE OF BLOCK OR BRICK | | | EX/EXIST/(E) | EXISTING |
| CI/CIPCAST IRON PIPEEXIEXTERIORCIPCAST IN PLACEFAFIRE ALARMCJCONSTRUCTION JOINT, CONTROLFDCFIRE DEPARTMENT CONNECTIONJOINTFDCFIRE DEPARTMENT CONNECTIONJOINTCOMPLETE JOINT PENETRATIONFDRCJPCOMPLETE JOINT PENETRATIONFDRCLCONTINUOUS LOAD, CEMENTFIGCLCONTINUOUS LOAD, CEMENTFIGCLCONTINUOUS LOAD, CEMENTFIGCLGCEILINGFGCLRCLEARCLRCLEARCMBCRUSHED MISCELLANEOUS BASEFINCMLCEMENT MORTAR COATINGFLCMLCORRUGATED METAL PIPEFLGCMLCONCRETE MASONRY UNITFLGCOCLEANOUT, CONDUIT ONLY W/FM/FWNYLON PULL CORDFMGFRAMINGCOLCOLUMNFOBCOLCOLUMNFOBCOLCOLUMNFOBCOLCOLUMNFOBCOMMCOMMUNICATIONS | | | | |
| CJCONSTRUCTION JOINT, CONTROLFAFIRE ALARMJOINTFDCFIRE DEPARTMENT CONNECTIONCJPCOMPLETE JOINT PENETRATIONFDRFEEDERCKTCIRCUITFDNFOUNDATIONCLCONTINUOUS LOAD, CEMENTFIGFIGURECLCONTINUOUS LOAD, CEMENTFIP OPFIBER OPTICLINEDLINEDFGFINISHED GRADECLGCEILINGFHFIRE HYDRANTCLRCLEARFINFINISH(ED)CMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR LININGFLEXFLEXIBLECMDCONCRETE MASONRY UNITFLGFLANGECOCLEANOUT, CONDUIT ONLY W/FM/FWFORCE MAINNYLON PULL CORDFMGFRAMINGCOLCOLUMNFOBFACE OF BLOCK OR BRICK | | | EXI | EXTERIOR |
| CJCONSTRUCTION JOINT, CONTROLFDCFIRE DEPARTMENT CONNECTIONJOINTFDRFEEDERCJPCOMPLETE JOINT PENETRATIONFDNFOUNDATIONCKTCIRCUITFIGFIGURECLCONTINUOUS LOAD, CEMENTFIGFIGURECLCONTINUOUS LOAD, CEMENTFIP OPFIBER OPTICLINEDFGFINISHED GRADECLGCEILINGFGFINISHED GRADECLRCLEARFHFIRE HYDRANTCMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCORRUGATED METAL PIPEFLGFLANGECMUCONCRETE MASONRY UNITFLLFLOW LINECOCLEANOUT, CONDUIT ONLY W/ NYLON PULL CORDFMGFRAMINGCOLCOLUMNFMGFRAMINGCOLCOLUMNFOBFACE OF BLOCK OR BRICK | | | FA | FIRE ALARM |
| JOINTFDRFEEDERCJPCOMPLETE JOINT PENETRATIONFDNFOUNDATIONCKTCIRCUITFDNFOUNDATIONCLCONTINUOUS LOAD, CEMENTFIGFIGURELINEDFGFINISHED GRADECLGCEILINGFGFINISHED GRADECLRCLEARFHFIRE HYDRANTCMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR LININGFLEXFLEXIBLECMDCONCRETE MASONRY UNITFLGFLOW LINECOCLEANOUT, CONDUIT ONLY W/ NYLON PULL CORDFMGFRAMINGCOLCOLUMNFMGFRAMINGCOLCOLUMNFOBFACE OF BLOCK OR BRICK | J | | | FIRE DEPARTMENT CONNECTION |
| CKTCIRCUITFDNFOUNDATIONCLCONTINUOUS LOAD, CEMENTFIGFIGURELINEDFIP OPFIBER OPTICCLGCEILINGFGFINISHED GRADECLRCLEARFHFIRE HYDRANTCLRCLEARFINFINISH(ED)CMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR LININGFLEXFLEXIBLECMPCORRUGATED METAL PIPEFLGFLANGECMUCONCRETE MASONRY UNITFLGFLOW LINECOCLEANOUT, CONDUIT ONLY W/ NYLON PULL CORDFMGFRAMINGCOLCOLUMNFOBFACE OF BLOCK OR BRICK |).IP | | FDR | FEEDER |
| CLCONTINUOUS LOAD, CEMENTFIGFIGURELINEDFIP OPFIBER OPTICCLGCEILINGFGFINISHED GRADECLRCLEARFHFIRE HYDRANTCLRCLEARFINFINISH(ED)CMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR LININGFLFLOW LINE, FIRE LANE, FLOORCMPCORRUGATED METAL PIPEFLGFLANGECMUCONCRETE MASONRY UNITFLGFLOW LINECOCLEANOUT, CONDUIT ONLY W/ NYLON PULL CORDFMGFRAMINGCOLCOLUMNFOBFACE OF BLOCK OR BRICK | | | | |
| LINED FIP OP FIBER OF TIC CLG CEILING FG FINISHED GRADE CLR CLEAR FH FIRE HYDRANT CLR CLEAR FIN FINISH(ED) CMB CRUSHED MISCELLANEOUS BASE FIN FINISH(ED) CMC CEMENT MORTAR COATING FL FIXTURE CMC CEMENT MORTAR LINING FL FLOW LINE, FIRE LANE, FLOOR CML CEMENT MORTAR LINING FL FLEX FLEXIBLE CMP CORRUGATED METAL PIPE FLG FLANGE CMU CONCRETE MASONRY UNIT FLL FLOW LINE COUL COLEANOUT, CONDUIT ONLY W/ FN/FW FORCE MAIN NYLON PULL CORD FMG FRAMING COL COLUMN FOB FACE OF BLOCK OR BRICK | | | | |
| CLIGCEILINGFHFIRE HYDRANTCLRCLEARFINFINISH(ED)CMBCRUSHED MISCELLANEOUS BASEFINFINISH(ED)CMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR LININGFLEXFLEXIBLECMPCORRUGATED METAL PIPEFLGFLANGECMUCONCRETE MASONRY UNITFLGFLOW LINECOCLEANOUT, CONDUIT ONLY W/ NYLON PULL CORDFMGFRAMINGCOLCOLUMNFOBFACE OF BLOCK OR BRICK | | LINED | | |
| CLRCLEARFINFINISH(ED)CMBCRUSHED MISCELLANEOUS BASEFIXFIXTURECMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR LININGFLFLEXCMPCORRUGATED METAL PIPEFLEXFLEXIBLECMUCONCRETE MASONRY UNITFLGFLOW LINECOCLEANOUT, CONDUIT ONLY W/ NYLON PULL CORDFMGFRAMINGCOLCOLUMNFMGFRAMINGCOMMCOMMUNICATIONSFOBFACE OF BLOCK OR BRICK | | | | |
| DMBCRUSHED MISCELLANEOUS BASEFIXTFIXTURECMCCEMENT MORTAR COATINGFLFLOW LINE, FIRE LANE, FLOORCMLCEMENT MORTAR LININGFLFLEXCMPCORRUGATED METAL PIPEFLGFLEXCMUCONCRETE MASONRY UNITFLGFLANGECOUCLEANOUT, CONDUIT ONLY W/ NYLON PULL CORDFM/FWFORCE MAINCOLCOLUMNFMGFRAMINGCOMMCOMMUNICATIONSFOBFACE OF BLOCK OR BRICK | | | | |
| CMLCEMENT MORTAR LININGFLFLOW LINE, FIRE LANE, FLOORCMPCORRUGATED METAL PIPEFLEXFLEXIBLECMUCONCRETE MASONRY UNITFLGFLANGECOCLEANOUT, CONDUIT ONLY W/FLLFLOW LINECOCLEANOUT, CONDUIT ONLY W/FM/FWFORCE MAINCOLCOLUMNFMGFRAMINGCOMMCOMMUNICATIONSFOBFACE OF BLOCK OR BRICK | | | | FIXTURE |
| CMPFLEXFLEXIBLECMUCONCRETE MASONRY UNITFLGFLANGECMUCOLEANOUT, CONDUIT ONLY W/FLLFLOW LINECOCLEANOUT, CONDUIT ONLY W/FM/FWFORCE MAINNYLON PULL CORDFMGFRAMINGCOLCOLUMNFOBFACE OF BLOCK OR BRICK | | | | |
| CONCRETE MASONRY UNIT FLL FLOW LINE CO CLEANOUT, CONDUIT ONLY W/ FM/FW FORCE MAIN NYLON PULL CORD FMG FRAMING COL COLUMN FOB FACE OF BLOCK OR BRICK | CMP | CORRUGATED METAL PIPE | | |
| CO CLEANOUT, CONDUITIONLY W/ FM/FW FORCE MAIN NYLON PULL CORD FMG FRAMING COL COLUMN FOB FACE OF BLOCK OR BRICK | | | | |
| NYLON PULL CORD FMG FRAMING COL COLUMN FOB FACE OF BLOCK OR BRICK COMM COMMUNICATIONS FOB FACE OF BLOCK OR BRICK |)) | | | |
| COMM COMMUNICATIONS FOB FACE OF BLOCK OR BRICK | | | FMG | FRAMING |
| FOC FACE OF CONCRETE | | | | |
| | | - · · · - | FUC | FACE OF CONCRETE |
| | | | | |
| DATE DRAWN REVISIONS - CHK'D APP'D NO. DATE DRAWN REVISION | | | | HK'D APP'D NO. DATE DRAWN REVISIONS - |

1-3458 **G-1.0** |

POLAPRO1_10/2012_R.B.

| | R/RAD | RAI |
|--|---------------------|-----------------------|
| MOMENT FRAME MANUFACTURER OF FEATURE | RBS RCB | REI REI |
| (WATER DIST. SYSTEM) | RCP | REI |
| MANUFACTURER | RD | RO |
| | RDWY | RO |
| MEAN HIGHER HIGH WATER MEAN HIGH WATER | RED REF | REI REI |
| MIDDLE | REG | RE |
| MINIMUM | REINF | REI |
| MISCELLANEOUS | REQD/REQ'D | RE |
| MECHANICAL JOINT MUD LINE | RG RGS | RUI RIG |
| MEAN LOWER LOW WATER | RMB | RE/ |
| MEAN LOW WATER | RMP | RAI |
| MULTI-MODE FIBER | RMS | RO |
| MINIMUM POINT OF ENTRY MAIN SUBSTATION, MIDDLE | RPBP | REI PRI |
| STRIP, MEAN SEA LEVEL | RS | RE |
| METAL, MATERIAL | RST | CO |
| MEGA VOLT AMPERE | R/W | RIG |
| NEW | RW | RE |
| NATIONAL FIRE PROTECTION | S | SLC |
| ASSOCIATION | SC | SLI |
| | SCADA | SUI |
| NUMBER NORMAL WEIGHT | SCG | DA ⁻ SO |
| NEAR SIDE | 000 | GA |
| NOTICE TO PROCEED | SCH/SCHED | SCI |
| NOT TO SCALE | SD/SDR | STO |
| ON CENTER | SDWK SEC | SID SE(|
| OCTAGONAL | SECT | SE |
| OUTSIDE DIAMETER | SEP | SE |
| OVERFLOW | SF | SUI |
| OUTSIDE FACE ORIGINAL GRADE | SFR SGL | SUI SIN |
| OPPOSITE HAND | SHT | SH |
| ORDINARY MOMENT FRAME | SHTG | SHI |
| OUT TO OUT | SIM | SIM |
| OPENING OPPOSITE | SLBB SLB | SH(SH(|
| ORIGINAL | SMF | SIN |
| OUTSIDE PLANT | 2 | MO |
| OVERLOOK | SMS | SHI |
| PHASE, POLE | SO SOG | SO SLA |
| PARALLEL | SP/SPA | SP/ |
| PULL BOX | SPC'G | SP |
| | SPECS | SPE |
| POINT OF CURVE PILE DRIVING ANALYZER | SPLY SPPM | SUI SAI |
| PLAIN END | SPPWC | STA |
| PERFORATED | | WC |
| | SPW | SA |
| PLANT FACTOR PIER HEAD LINE | SQ SQ FT | SQ SQ |
| PROTECT IN PLACE | SQ IN | SQ |
| PARTIAL JOINT PENTRATION | SS | SA |
| PROJECT LIMIT, POWERLOGIC, PROPERTY LINE, PLATE | SSC | SYS |
| POWERLOGIC CONTROLLER | SSC | SIN ST/ |
| POWERLINK | | PU |
| PIPE LOCATION REPORT | SST | BR |
| PLACES PANEL | ST | STE |
| PANEL POINT OF CONNECTION | STA STAGG | ST/ ST/ |
| PORT OF LOS ANGELES | STD | STA |
| POWER POLE | STIFF | STI |
| | STL | STE |
| PRIMARY PROPOSED | STP STRUC/STRUCT | STI STF |
| POUNDS PER SQUARE FOOT | SUBSTA | SUI |
| POUNDS PER SQUARE INCH | SW | SW |
| POST TENSIONED | SWBD | SW |
| (PRESTRESSED) POLYVINYL CHLORIDE | SYM/SYMM | SYI |
| PAVEMENT | T/TEL | TEL |
| POTABLE WATER/DOMESTIC | T&B | TO |
| WATER, POLYETHYLENE WRAPPED | TC | TO |
| POWER | TCB TEMP | |
| | THK | TH |
| | | |
| | | |

| | CHK'D APP'D | | SCALE: AS SHOWN DRAWN: W.YOON CHECKED: B. LOW DESIGNED: W.YOON ENGINEER / ARCHITECT | CHIEF OF DESIGN | NEER A THE PORT | DQUARTERS PE BBREVIA OF LOS ANGELES ING DIVISION | DRAWING NUMBER SHEET NU |
|---|---|-----------------------------|--|-------------------------------------|---|---|--|
| | | | | | | REFE ADDI ⁻ | LIST MAY NOT BE COMPREHENSIVE. R TO DISCIPLINE SHEETS FOR TIONAL CLARIFICATION. |
| T | LIGHT WEIGHT LOW VOLTAGE MAINTENANCE MAXIMUM | PWR | PAVEMENT POTABLE WATER/DOMESTIC WATER, POLYETHYLENE WRAPPED POWER | T/TEL T&B TC TCB TEMP | TELEPHONE, TANGENT DISTANCE TOP AND BOTTOM TOP OF CURB TOP OF CATCH BASIN TEMPORARY, TEMPERATURE | NOTES: | |
| - | LAND SIDE IVORY LEFT STRIP LEFT LIGHT WEIGHT | P/T PVC PVMT | POST TENSIONED (PRESTRESSED) POLYVINYL CHLORIDE PAVEMENT | SWBD SYM/SYMM | SWITCHBOARD SYMMETRICAL, SYMBOL | | |
| | LONG LEG VERTICAL LONGITUDINAL LOW POINT, LIGHT POLE LONG RADIUS | PRI PROP PSF PSI | PRIMARY PROPOSED POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH | STP STRUC/STRUCT SUBSTA SW | STIRRUP | | |
| | LINEAR FOOT LONG LONG LEG BACK-BACK LONG LEG HORIZONTAL | POC POLA PP PR | POINT OF CONNECTION PORT OF LOS ANGELES POWER POLE PIER | STAGG STD STIFF STL | STAGGER (ED) STANDARD STIFFENER STEEL | | |
| | DEPARTMENT POUNDS PER FOOT POUNDS LONG CONTINUOUS LOAD | PLK PLR PLS PNL | POWERLINK PIPE LOCATION REPORT PLACES PANEL | SST ST STA | PUBLIC WORKS CONSTRUCTION BROWN SIDE STRIP STREET STATION | | |
| | WATER AND POWER LOS ANGELES BUREAU OF ENGINEERING LOS ANGELES HARBOR | PJP PL PLC | PARTIAL JOINT PENTRATION PROJECT LIMIT, POWERLOGIC, PROPERTY LINE, PLATE POWERLOGIC CONTROLLER | SS SSC SSPWC | SANITARY SEWER, SECURITY SYSTEM, STAINLESS STEEL SINGLE SHEAR CONNECTION STANDARD SPECIFICATIONS FOR | YD | YARD |
| , | LENGTH, LEG LOS ANGELES LOS ANGELES DEPARTMENT OF | PERP PF PHL (PIP) | PERPENDICULAR PLANT FACTOR PIER HEAD LINE PROTECT IN PLACE | SPW SQ SQ FT SQ IN | SAN PEDRO WATERFRONT SQUARE SQUARE FOOT/FEET SQUARE INCH | WV WWF XFMR | WATER VALVE WELDED WIRE FABRIC TRANSFORMER |
| | KIPS PER SQUARE INCH KNOCKOUT KILOVOLTS KILOVOLT-AMPERE | PC PDA PE PERF | POINT OF CURVE PILE DRIVING ANALYZER PLAIN END PERFORATED | SPLY SPPM SPPWC | SUPPLY SAN PEDRO PUBLIC MARKET STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION | WS WSM WT | WATER SERVICE, WELDED STUDS, WATER SIDE WATER SERVICE MAP WEIGHT |
| | JUNCTION STRUCTURE JOIST JOINT | P PARA PB P/C | PHASE, POLE PARALLEL PULL BOX PRECAST | SOG SP/SPA SPC'G SPECS | SLAB ON GRADE SPARE, SPACE SPACING SPECIFICATIONS | WHB WM WP WPJ | WELDED HEADED REINF BARS WATER METER WEATHER PROOF, WORK POINT WEAKENED PLANE JOINT |
| i | IRRIGATION IMPEDANCE JUNCTION BOX | ORIG OSP OVK | ORIGINAL OUTSIDE PLANT OVERLOOK | SMF SMS SO | SINGLE MODE FIBER, SPECIAL MOMENT FRAME SHEET METAL SCREWS SOUTHERN | W/WTR W/ WBS WD | WATER WITH WELDED BEAM SEAT WOOD |
| | INFORMATION INTERRUPTER, INTERIOR INVERT INDICATOR PILE | OMF O-O OPNG OPP | ORDINARY MOMENT FRAME OUT TO OUT OPENING OPPOSITE | SHTG SIM SLBB SLB | SHEATHING SIMILAR SHORT LEG BACK-BACK SHORE LEG VERTICAL | VDC VERT VIF | VOLTAGE DIRECT CURRENT VERTICAL VERIFY IN FIELD |
| | INSIDE DIAMETER INSIDE FACE INTERMEDIATE MOMENT FRAME INCH | O FLOW OF OG OH | OVERFLOW OUTSIDE FACE ORIGINAL GRADE OPPOSITE HAND | SF SFR SGL SHT | SURFACE SURFACE REBAR SINGLE SHEET | VC VCP VD | CURRENT VERTICAL CURVE VITRIFIED CLAY PIPE VOLTAGE DROP |
| | HEIGHT HIGH VOLTAGE IRRIGATION CONTROL VALVE | OC OCT OD | ON CENTER OCTAGONAL OUTSIDE DIAMETER | SDWK SEC SECT SEP | SIDEWALK SECONDARY SECTION SEPARATION | V VA VAC | VOLTS VOLT-AMPERE VOLTAGE ALTERNATING |
| | HORIZONTAL HIGH POINT HIGH STRENGTH HIGH STRENGTH BOLT | NORM WT NS NTP NTS | NORMAL WEIGHT NEAR SIDE NOTICE TO PROCEED NOT TO SCALE | SCG SCH/SCHED SD/SDR | SOUTHERN CALIFORNIA GAS SCHEDULE STORM DRAIN | UPS USGS | UNINTERRUPTIBLE POWER SUPPLY UNITED STATES GEODETIC SURVEY |
| | HOLD DOWN HIGH DENSITY POLYETHYLENE HEADER HANGER | NFPA NIC NO. | NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NUMBER | S SC SCADA | SLOPE, SOUTH SLIP CRITICAL SUPERVISORY CONTROL AND DATA ACQUISITION | UON | OTHERWISE UNLESS OTHERWISE NOTED UNION PACIFIC |
| | GATE VALVE GRAVEL HEADED CONCRETE ANCHOR | MTL MVA N/(N) | METAL, MATERIAL MEGA VOLT AMPERE | RST R/W RW | COPPER RIGHT STRIP RIGHT OF WAY REWRAP | U/G/UG UL UNO | UNDERGROUND UNDERWRITERS LABORATORIES UNLESS NOTED |
| | GUARD GRID LINE, GROUND LINE GROUND, GROUNDING GALLONS PER MINUTE GROUND, GRADE | MLW MMF MPOE MS | MEAN LOW WATER MULTI-MODE FIBER MINIMUM POINT OF ENTRY MAIN SUBSTATION, MIDDLE STRIP, MEAN SEA LEVEL | RMP RMS RPBP RS | RAMP ROOT MEAN SQUARE REDUCED PRESSURE BACKFLOW PREVENTER REFERENCE STANDARD | TS TSG TW TYP | TOP OF STAIRS, TRANSITION STRUCTURE TAPERED STEEL GIRDER TOP OF WALL TYPICAL |
| | GAGE GALLON GALVANIZED GRADE BEAM, GRADE BREAK | MISC MJ ML MLLW | MISCELLANEOUS MECHANICAL JOINT MUD LINE MEAN LOWER LOW WATER | REQD/REQ'D RG RGS RMB | REQUIRED RUBBER GASKET RIGID GALVANIZED STEEL REAR MARGINAL BEAM | TOT TOW TP TRANS | TOTAL TOP OF WALL TOP OF PARAPET TRANSITION, TRASVERSE |
| | FOOTING FIRE WATER GAS | MHHW MHW MID MIN | MEAN HIGHER HIGH WATER MEAN HIGH WATER MIDDLE MINIMUM | RED REF REG REINF | REDUCING REFERENCE REGULAR REINFORCE, REINFORCEMENT | TOF TOG TOR TOS | TOP OF FOOTING TOP OF GRADE TOP OF RAIL TOP OF STEEL |
| | FINISHED SURFACE, FAR SIDE, FIRE SERVICE FEET, FOOT | MFR MH | (WATER DIST. SYSTEM) MANUFACTURER MAINTENANCE HOLE | RCP RD RDWY | REINFORCED CONCRETE PIPE ROAD ROADWAY | TOC TOCC TOD | TOP OF CONCRETE TOP OF CONCRETE CAP TOP OF DECK |



ATTACHMENT B

-5

4

| | CHK'D | APP'D | | SCALE: AS SHOWN | | CHIEF OF DESIGN | | PORT POLICE HEADQUARTE | ERS PERIMETER ENHA | NCEMENT |
|---|-------|-------|---|--|--|---------------------------|----|--|--------------------|-----------------------------|
| | | | | SCALE: AS SHOWN Chief OF Design DRAWN: W.YOON Mail Symplemetry CHECKED: B. LOW ASSISTANT CHIEF HARBOR ENGINEER | | ACCESSIBILITY REQUIREMENT | | | INT | |
| | | | | DESIGNED: W.YOON | | Atul and | | THE PORT OF LOS ANGEI ENGINEERING DIV | | DRAWING NUMBER SHEET NUMBER |
| | | | | m | | | | 425 S. PALOS VERDES STREET SAN PED | | 1-3458 G-2.0 |
| 6 | 7 | | 8 | 9 | | 10 | 11 | 12 | 13 | 14 |

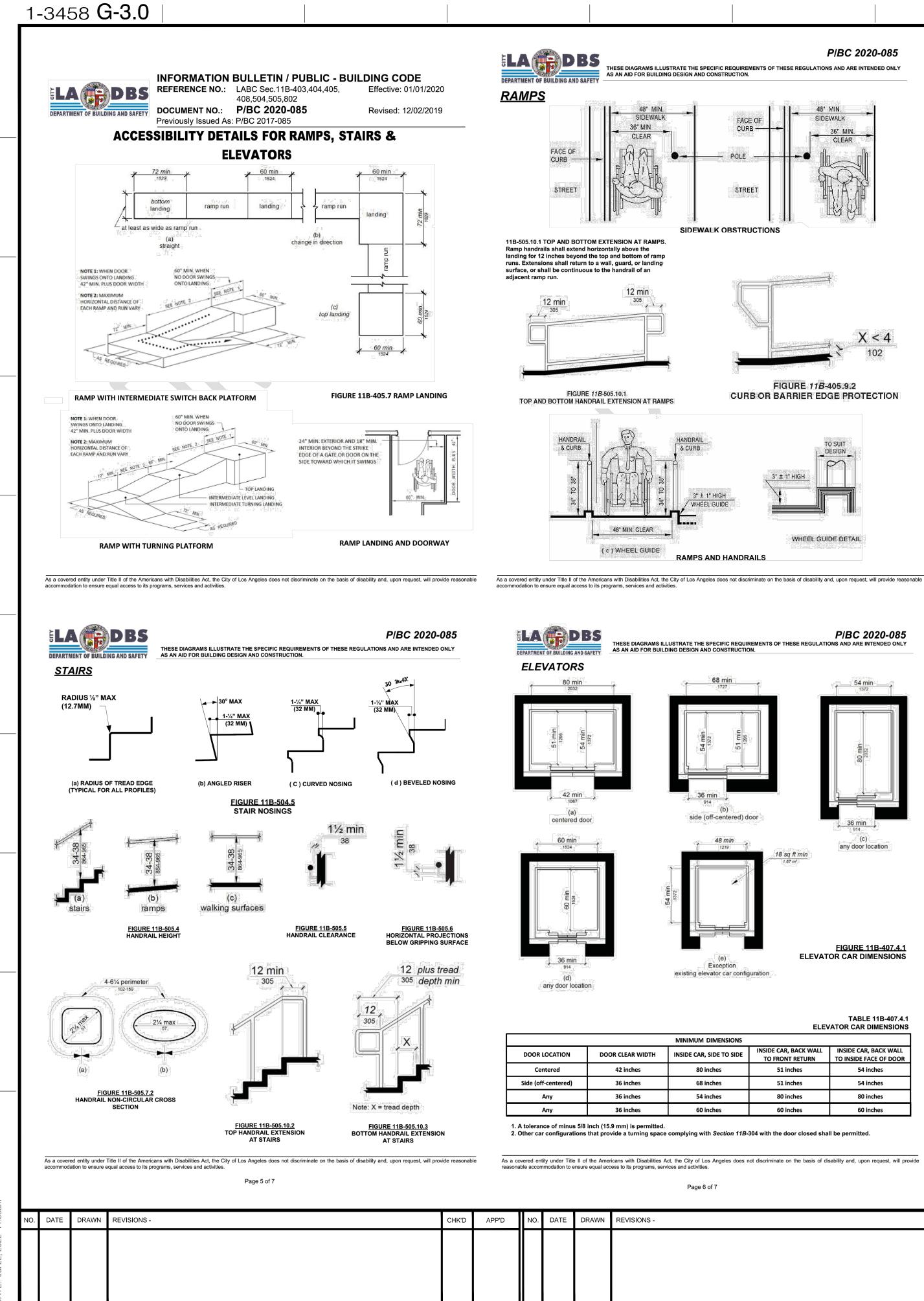
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ATTACHMENT B

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P/BC 2020-085

MIN 18" - INTERIOR DOOR

MIN 24" - EXTERIOR DOORS

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

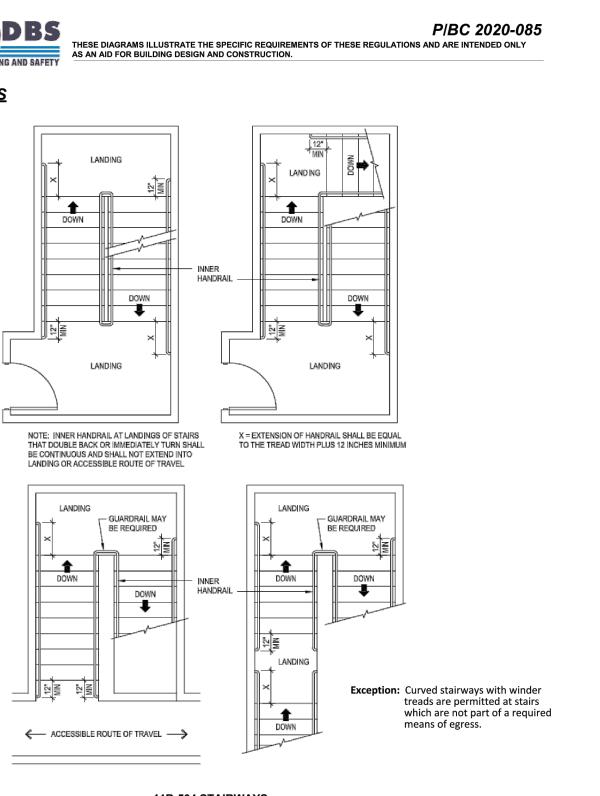
3" MAX-

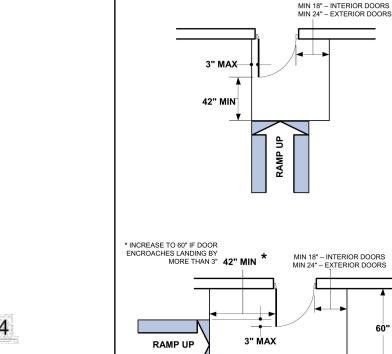
42" MIN

DOORWAYS AT RAMP LANDINGS

LABDBS EPARTMENT OF BUILDING AND SAI

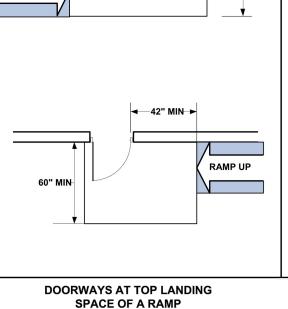
<u>STAIRWAYS</u>





DEPARTMENT OF BUILDING AND SAFE

new construction



nodation to ensure equal access to its programs, services and activitie

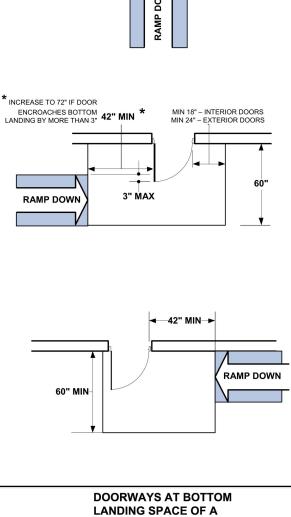




FIGURE 11B-407.4.1

| | IABL | E 116 | 3-407 | .4. |
|----------|------|-------|-------|-----|
| ELEVATOR | CAR | DIME | INSIC |)NS |

| IENSIONS | | |
|-----------|-----------------------|------------------------|
| E TO SIDE | INSIDE CAR, BACK WALL | INSIDE CAR, BACK WALL |
| | TO FRONT RETURN | TO INSIDE FACE OF DOOR |
| es | 51 inches | 54 inches |
| es | 51 inches | 54 inches |
| es | 80 inches | 80 inches |
| es | 60 inches | 60 inches |

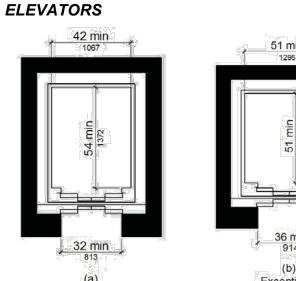


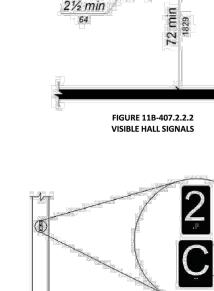
FIGURE 11B-408.4.1 LIMITED-USE/LIMITED-APPLICATION (LULA) ELEVATOR CAR DIMENSIONS

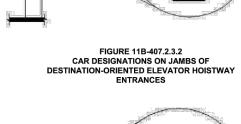
Door and signal timing. The minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for the entry of destination information until the doors of that car start to close shall be calculated from the following equation:

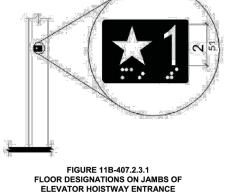
T = D/(1.5 ft/s) or T = D/(455 mm/s) = 5 seconds minimum where Tequals the total time in seconds and **D** equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches (1524 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door. (11B-407.3.4)

> Exceptions: 1. For cars with in-car lanterns, T shall be permitted to begin when the signal is visible from the point 60 inches (1524 mm) directly in front of the farthest hall call button and the audible signal is sounded. 2. Destination-oriented elevators shall not be required to comply with Section 11B-407.3.4.

Door delay. Elevator doors shall remain fully open in response to a car call for 5 seconds minimum. (11B-407.3.5)







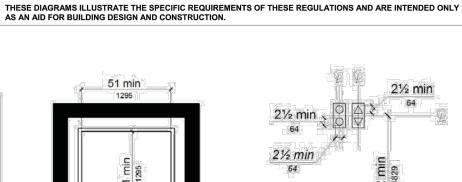
As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities Page 7 of 7

| | CHK'D | APP'D | | S | SCALE: AS SHOWN | CHIEF OF DESIGN | brand | |
|---|-------|-------|---|---|---|---------------------------|-----------|--|
| | | | | C | DRAWN: W.YOON CHECKED: B.LOW DESIGNED: W.YOON ENGINEER / ARC | ASSISTANT CHIEF HARBO | RENGINEER | |
| 6 | 7 | | 8 | | 9 | 10 | | |

Exception 1

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide

Page 3 of 7



RAMP

P/BC 2020-085

11B-504 STAIRWAYS

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable modation to ensure equal access to its programs, services and activities. Page 4 of 7

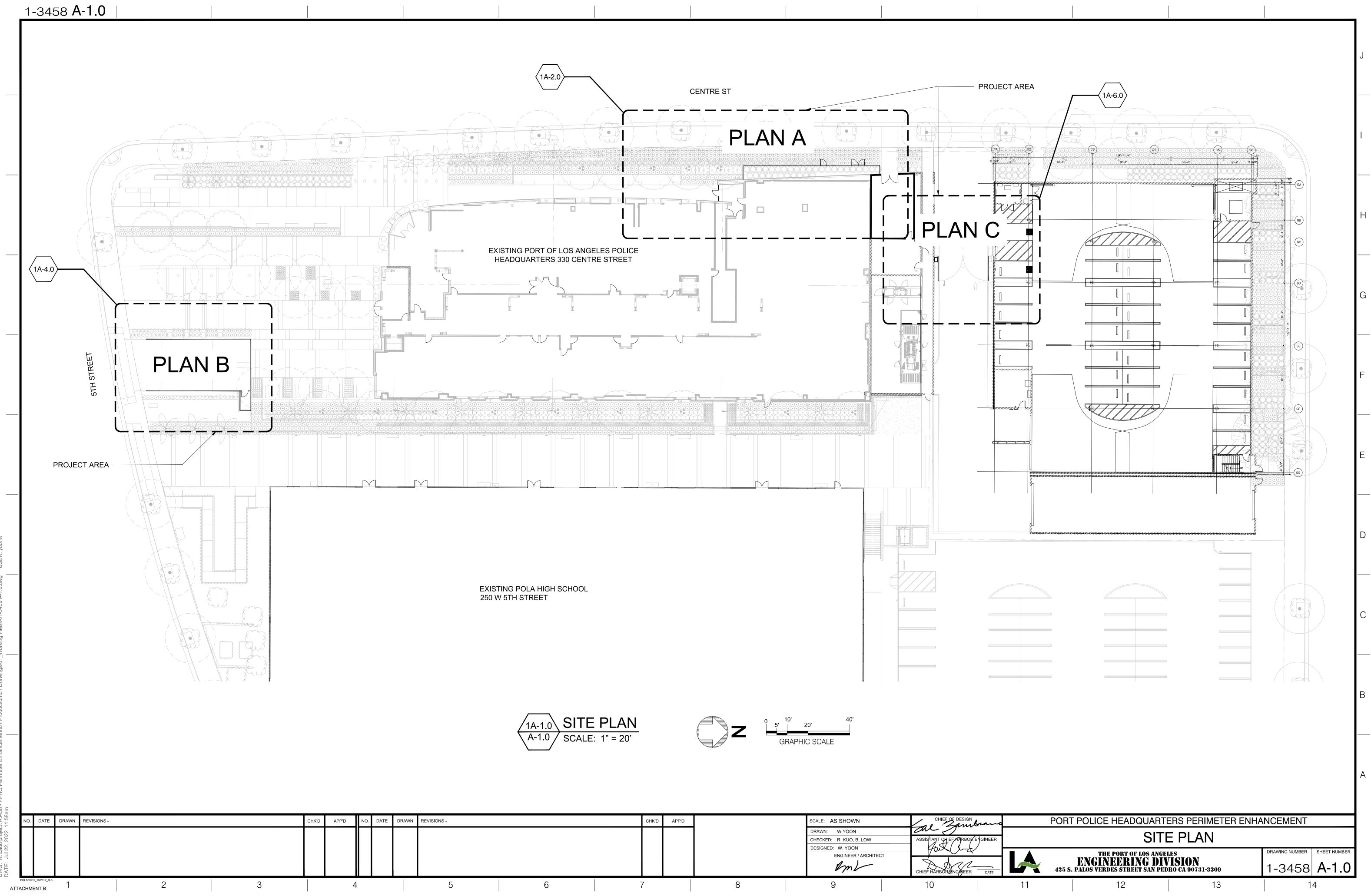
> PORT POLICE HEADQUARTERS PERIMETER ENHANCEMENT ACCESSIBILITY REQUIREMENT DRAWING NUMBER SHEET NUMBER THE PORT OF LOS ANGELES **ENGINEERING DIVISION** I-3458 **G-3.0** 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309 11 12 13 14

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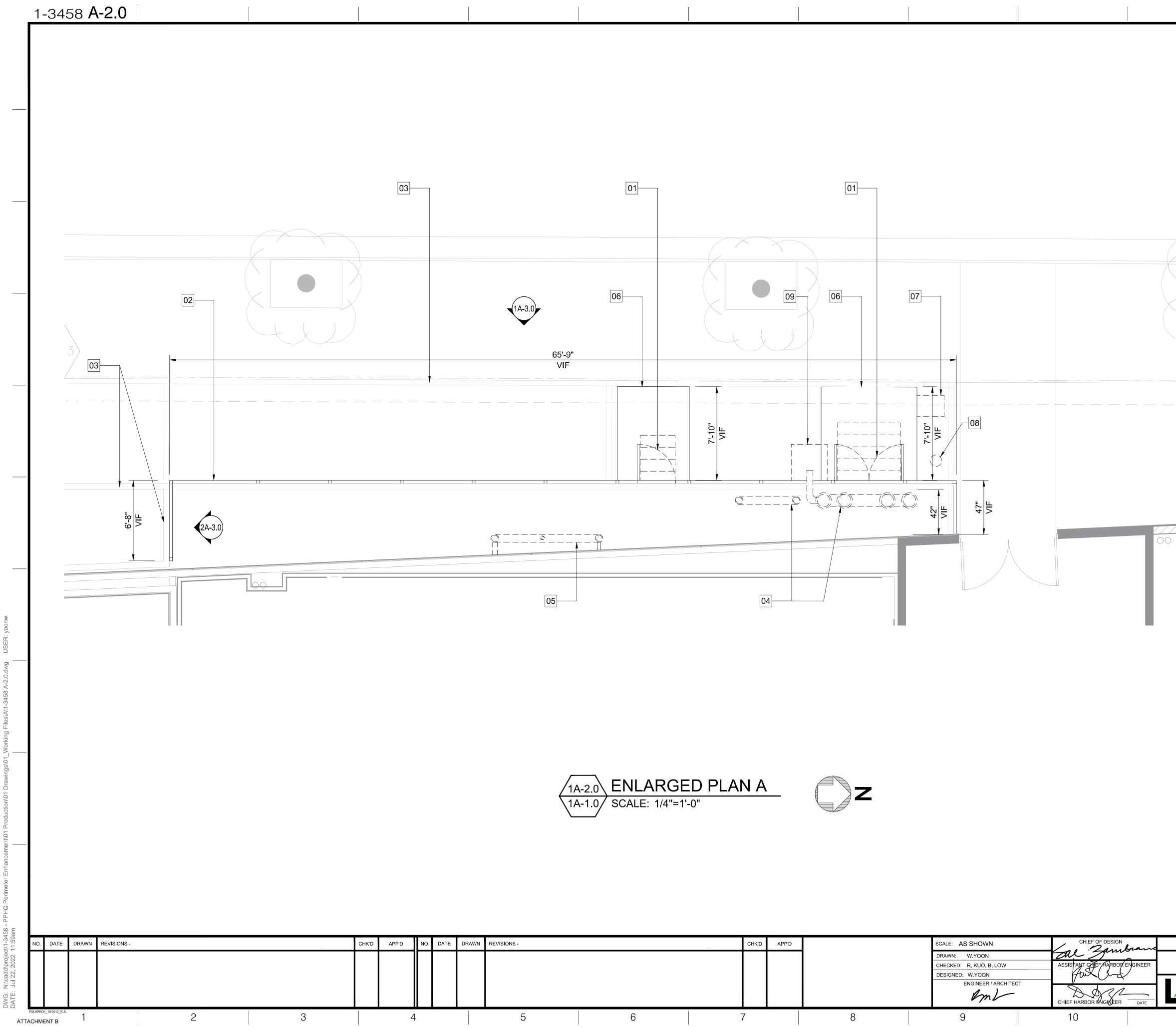
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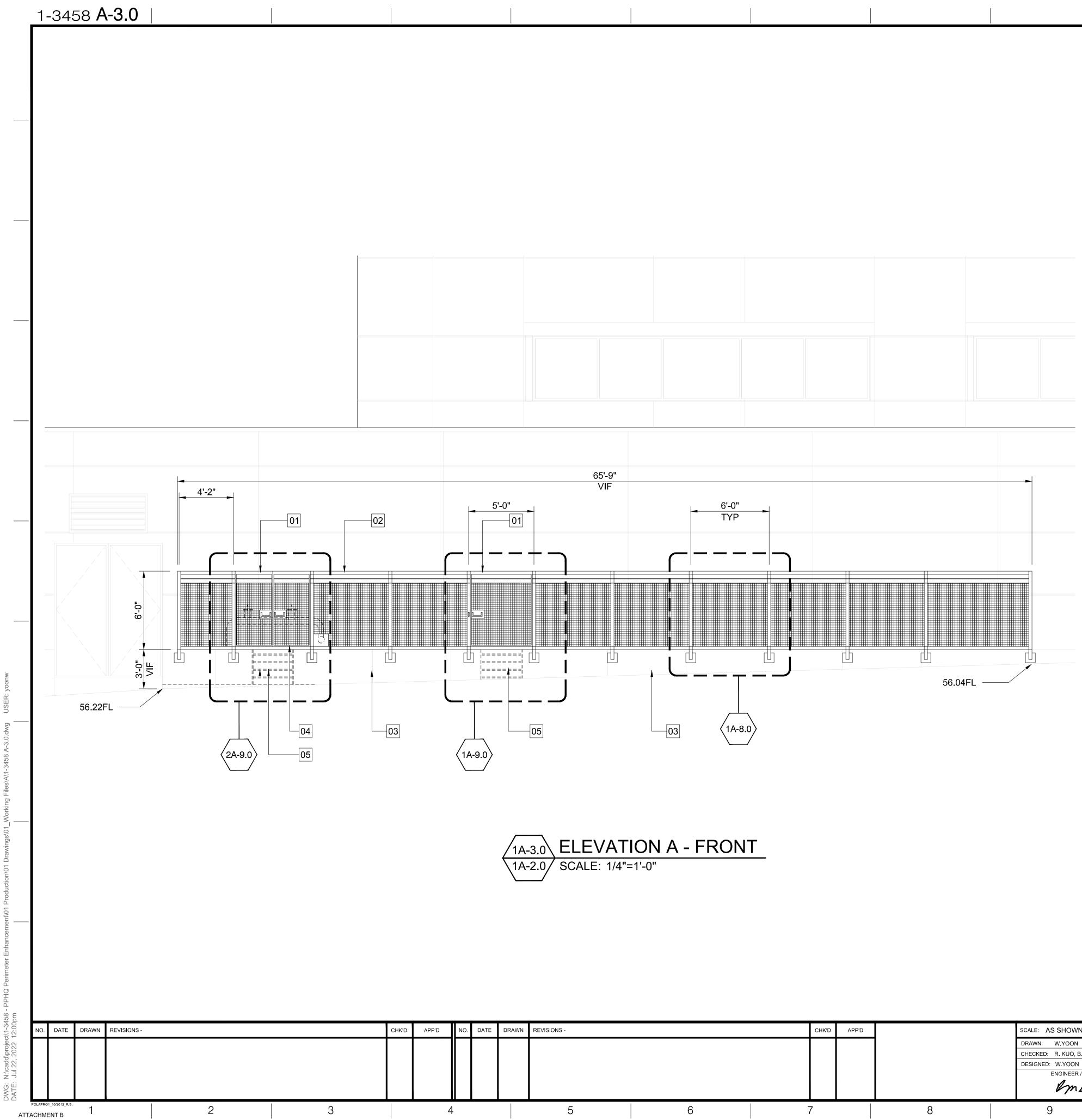


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| | | | | DRAWN: W.YOON | and | |
| | | | | CHECKED: R. KUO, B. LOW | ASSISTANT CHIEF HARBOR ENGINEER | |
| | | | | DESIGNED: W. YOON | Aw Ind | _ |
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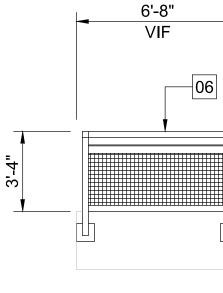
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| | | | | DRAWN: W.YOON CHECKED: R. KUO, B. LOW DESIGNED: W.YOON ENGINEER / ARCHITEC | | ER |
| 6 | 7 | | 8 | 9 | 10 | |

| | KEYNOTES - FLOOR PLAN | |
|--|--|---|
| | # KEYNOTE 01 NEW MAINTENANCE DOOR AND STAIR | J |
| | 02 NEW STEEL FENCE TOTAL LENGTH 72'-5"(V.I.F) | |
| | 03 EXISTING STEM WALL _ | |
| | 04 EXISTING FIRE SUPPRESSION SYSTEM IRRIGATION BACK FLOW VERIFY EXACT LOCATION IN FIELD | |
| | 05 EXISTING GAS METER VERIFY EXACT LOCATION IN FIELD 06 NEW CONCRETE PAD | I |
| | 00 NEW CONCRETE PAD | |
| | 07 EXISTING STORM DRAIN COVER VERIFY EXACT LOCATION AND SIZE IN FIELD | |
| | 08 EXISTING LANDSCAPE VENT VERIFY EXACT LOCATION AND SIZE IN FIELD | Η |
| | 09 LA FIRE CODE 912.4.2 CLEAR SPACE AROUND CONNECTIONS 36" WIDTH X 36" DEPTH X 78" HEIGHT | |
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| | NOTE: | |
| | 1. ALL DIMENSIONS TO BE VERIFIED IN FIELD (VIF) | |
| | 2. CONTRACTOR SHALL SUBMIT PERFORATED METAL PANEL PATTERN FOR REVIEW AND | D |
| | APPROVAL PRIOR TO FABRICATION 3. CONTRACTOR SHALL SUBMIT PAINT FINISH AND COLOR FOR REVIEW AND | - |
| | APPROVAL PRIOR TO FABRICATION 4. ALL DOOR AND GATE HINGES – | |
| | 5. ALL FENCE RAILS, POSTS, MESH, AND CONNECTIONS SHALL BE HOT | |
| | DIPPED GALVANIZED 6. REPAINT ADJACENT FENCING ALONG WEST WALL | С |
| | | |
| | PAINTING OF GALVANIZED METALS: | |
| | BY KRUD KUTTER/RUST-OLEUM B. FIRST COAT - ULGM00-WH | _ |
| | ULTRASHIELD GALVANIZED METAL PRIMER C. SECOND COAT - EVSH60 EVERSHIELD | З |
| | GLOSS ENAMEL D. THIRD COAT - EVSH60 EVERSHIELD | |
| | GLOSS ENAMEL – PAINT: VERIFY WITH ENGINEER ON SITE | |
| | A. VISTA PAINT OPTION 1 - MOONROSE NO. 1103 | A |
| | OPTION 2 - CHERRY BLINK NO. 1075 OPTION 3 - CARROT CAKE NO. 1054 | |
| PORT POLICE HEADQUARTERS | | |
| ENLARGED | | |
| THE PORT OF LOS ANGELES ENGINEERING DIVISI 425 S. PALOS VERDES STREET SAN PEDRO CA | DRAWING NUMBER SHEET NUMBER 90731-3309 1-3458 A-2.0 | |
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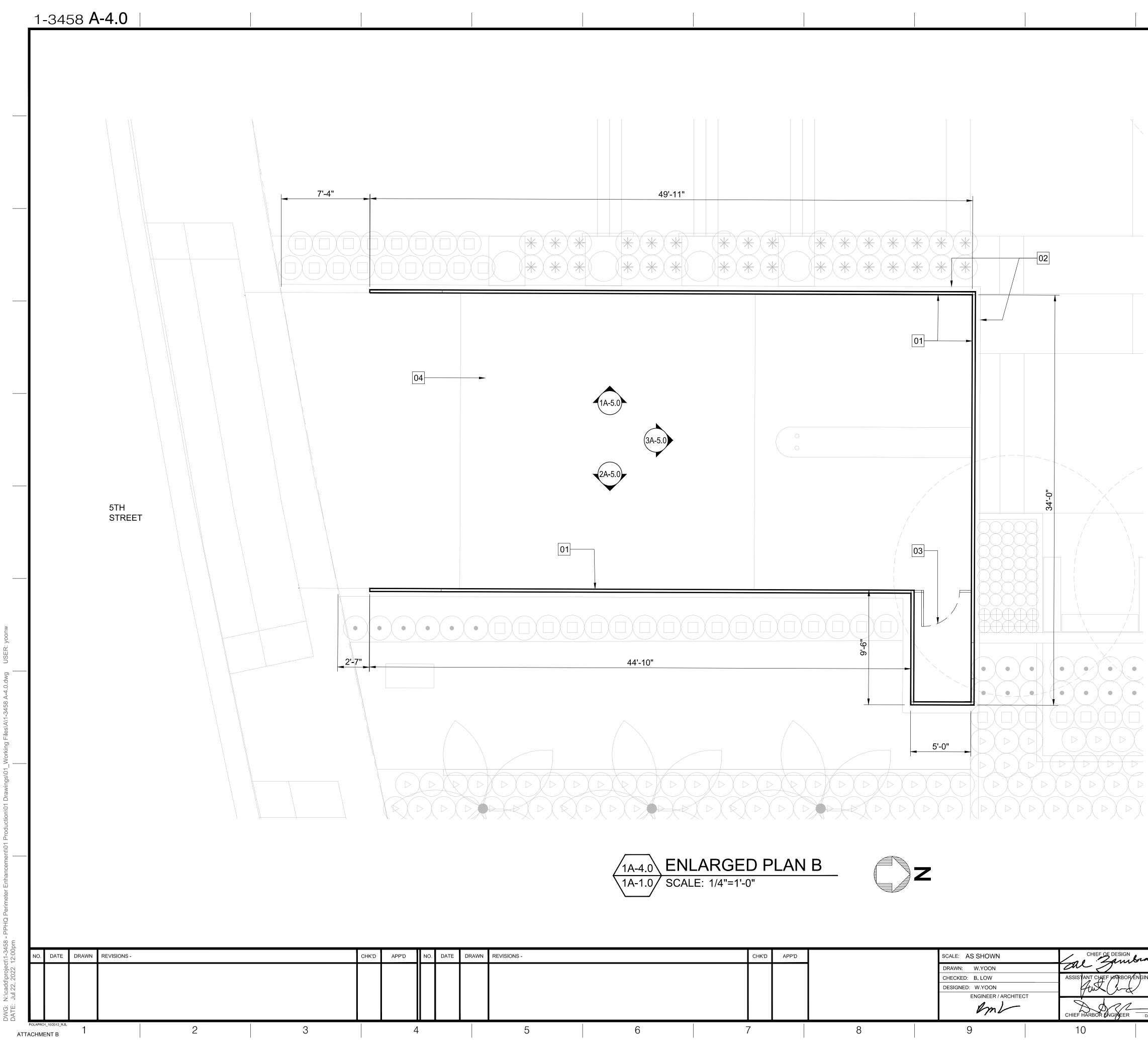
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| | CHK'D | APP'D | | SCALE: AS SHOWN | | and | |
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| | | | | DRAWN: W.YOON CHECKED: R. KUO, B. LOW DESIGNED: W.YOON ENGINEER / ARCHITEC | ASSISTANT CHIEF HARBOR EN ASSISTANT CHIEF HARBOR EN AUCCHIEF HARBOR ENGINEER | | |
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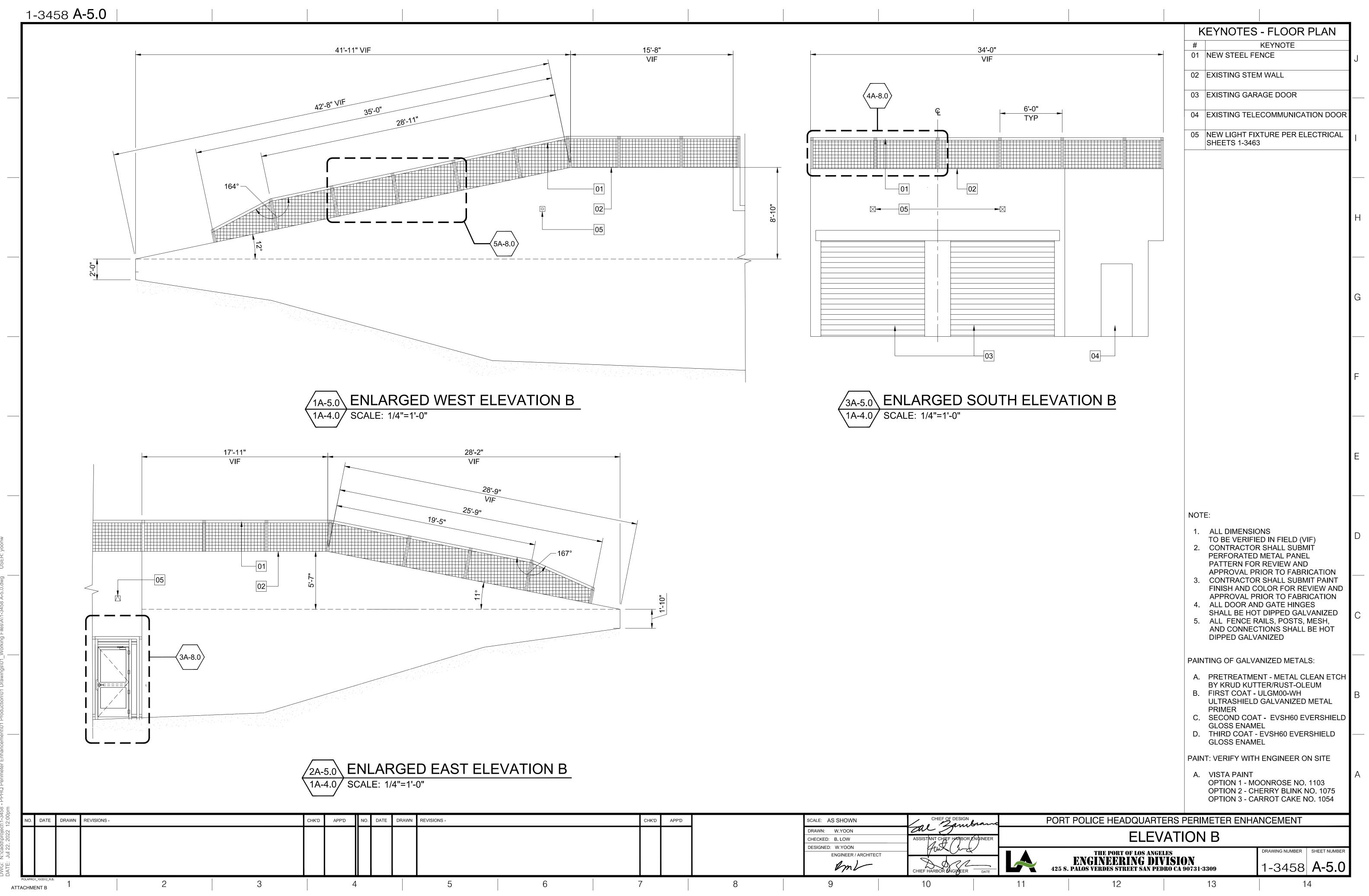


| | KEYNOTES - FLOOR PLAN | |
|---|---|---|
| | # KEYNOTE 01 NEW MAINTENANCE GATE AND LADDER | J |
| | 02 NEW STEEL FENCE | |
| | 03 EXISTING STEM WALL | |
| | 04 NEW DOUBLE DOORS FOR MAINTENANCE 05 NEW STAIRS FOR MAINTENANCE | |
| | 06 MATCH THE HEIGHT ON FRONT FENCE | Ι |
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| | | 5 |
| | ALL DIMENSIONS TO BE VERIFIED IN FIELD (VIF) CONTRACTOR SHALL SUBMIT | D |
| | PERFORATED METAL PANEL PATTERN FOR REVIEW AND | |
| | APPROVAL PRIOR TO FABRICATION 3. CONTRACTOR SHALL SUBMIT PAINT FINISH AND COLOR FOR REVIEW AND | |
| | APPROVAL PRIOR TO FABRICATION 4. ALL DOOR AND GATE HINGES | 0 |
| | 5. ALL FENCE RAILS, POSTS, MESH, AND CONNECTIONS SHALL BE HOT | С |
| | DIPPED GALVANIZED | _ |
| | PAINTING OF GALVANIZED METALS: | |
| LEVATION A - SIDE CALE: 1/4"=1'-0" | A. PRETREATMENT - METAL CLEAN ETCH BY KRUD KUTTER/RUST-OLEUM | В |
| | B. FIRST COAT - ULGM00-WH ULTRASHIELD GALVANIZED METAL PRIMER | U |
| | C. SECOND COAT - EVSH60 EVERSHIELD GLOSS ENAMEL | |
| | D. THIRD COAT - EVSH60 EVERSHIELD GLOSS ENAMEL | |
| | PAINT: VERIFY WITH ENGINEER ON SITE | А |
| | A. VISTA PAINT OPTION 1 - MOONROSE NO. 1103 OPTION 2 - CHERRY BLINK NO. 1075 | |
| | OPTION 3 - CARROT CAKE NO. 1054 | |
| PORT POLICE HEADQUARTERS F | | |
| THE PORT OF LOS ANGELES | DRAWING NUMBER SHEET NUMBER | |
| - ENGINEERING DIVISIO 425 S. PALOS VERDES STREET SAN PEDRO CAS | 90731-3309 1-3458 A-3. U | |
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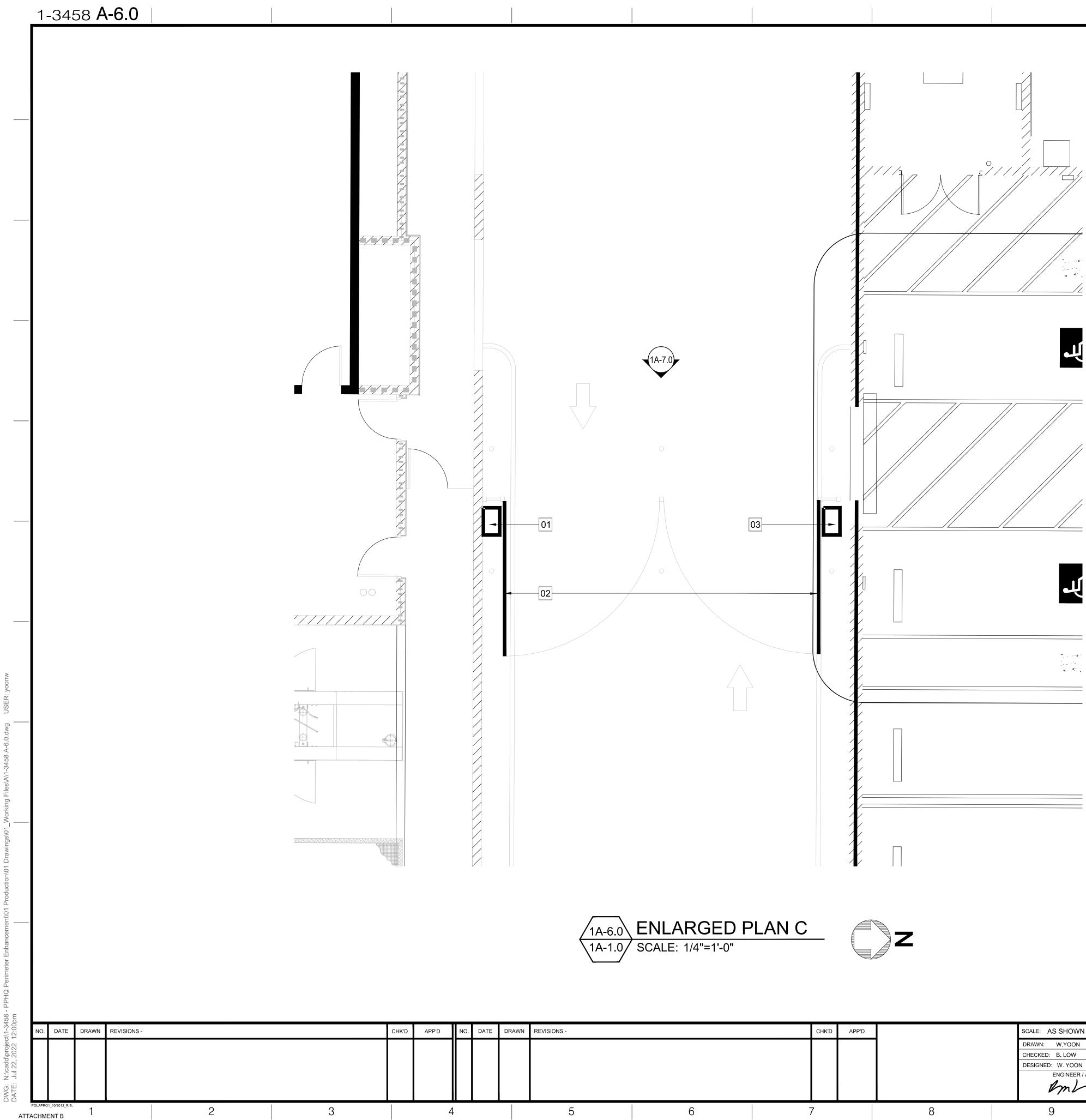


| | CHK'D | APP'D | | SCALE: AS SHOWN | | CHIEF OF DESIGN | nano | |
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| | | | | DESIGNED: W.YOON | | Hul ind | ∕ ⊢ | |
| | | | | ENGINEER / ARCHITECT | ŀ | Dorr | | |
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| I | | K | EYNOTES | | PLAN | |
|--------|--|---------------|--|--|---|------|
| | | # 01 | NEW STEEL FE | KEYNOTE NCE - TOTAL | 143'-3" LF | J |
| | | 02 | EXISTING STEN | / WALL | | |
| | | 03 | NEW GATE, SEE ELEVATIOI | N SHEET 3A-8 | .0 | |
| | | 04 | DRIVEWAY TO | GARAGE | | |
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| | | 2. | ALL DIMENSIC TO BE VERIFIE CONTRACTOR PERFORATED PATTERN FOR APPROVAL PR | ED IN FIELD (V SHALL SUBM METAL PANE REVIEW AND NOR TO FABR | IIT L) ICATION | D |
| | | | CONTRACTOR FINISH AND CO APPROVAL PR ALL DOOR AND SHALL BE HOT ALL FENCE RA AND CONNEC DIPPED GALVA | OLOR FOR RE RIOR TO FABR D GATE HING I DIPPED GAL AILS, POSTS, TIONS SHALL | VIEW AND ICATION ES VANIZED MESH, | С |
| | | | ULTRASHIELD PRIMER SECOND COAT GLOSS ENAME | NT - METAL CI FER/RUST-OLI ULGM00-WH GALVANIZED F - EVSH60 EV EL EVSH60 EVEF | LEAN ETCH EUM METAL /ERSHIELD | B |
| 0.51 | | A. | T: VERIFY WITH VISTA PAINT OPTION 1 - MO OPTION 2 - CH OPTION 3 - CA | ENGINEER O OONROSE NO. ERRY BLINK N RROT CAKE N | 1103 NO. 1075 | А |
| ORT | | | | NCEMENT | | |
| | ENLARG THE PORT OF LOS ANGEI ENGINEERING DIV | LES | | DRAWING NUMBER | SHEET NUMBER | |
| 425 S. | PALOS VERDES STREET SAN PED | RO CA 90731-3 | | 1-3458 | | |
| | 12 | | 13 | 1 | 4 | |



| | CHK'D | APP'D | | : | SCALE: AS SHOWN | CHIEF OF DESIG | krand | |
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| | | | | | DRAWN: W.YOON CHECKED: B.LOW DESIGNED: W.YOON ENGINEER / ARCHITEC | ASSISTANT CHIEF HARBO AUX CHIEF HARBOR ENGINEE | | |
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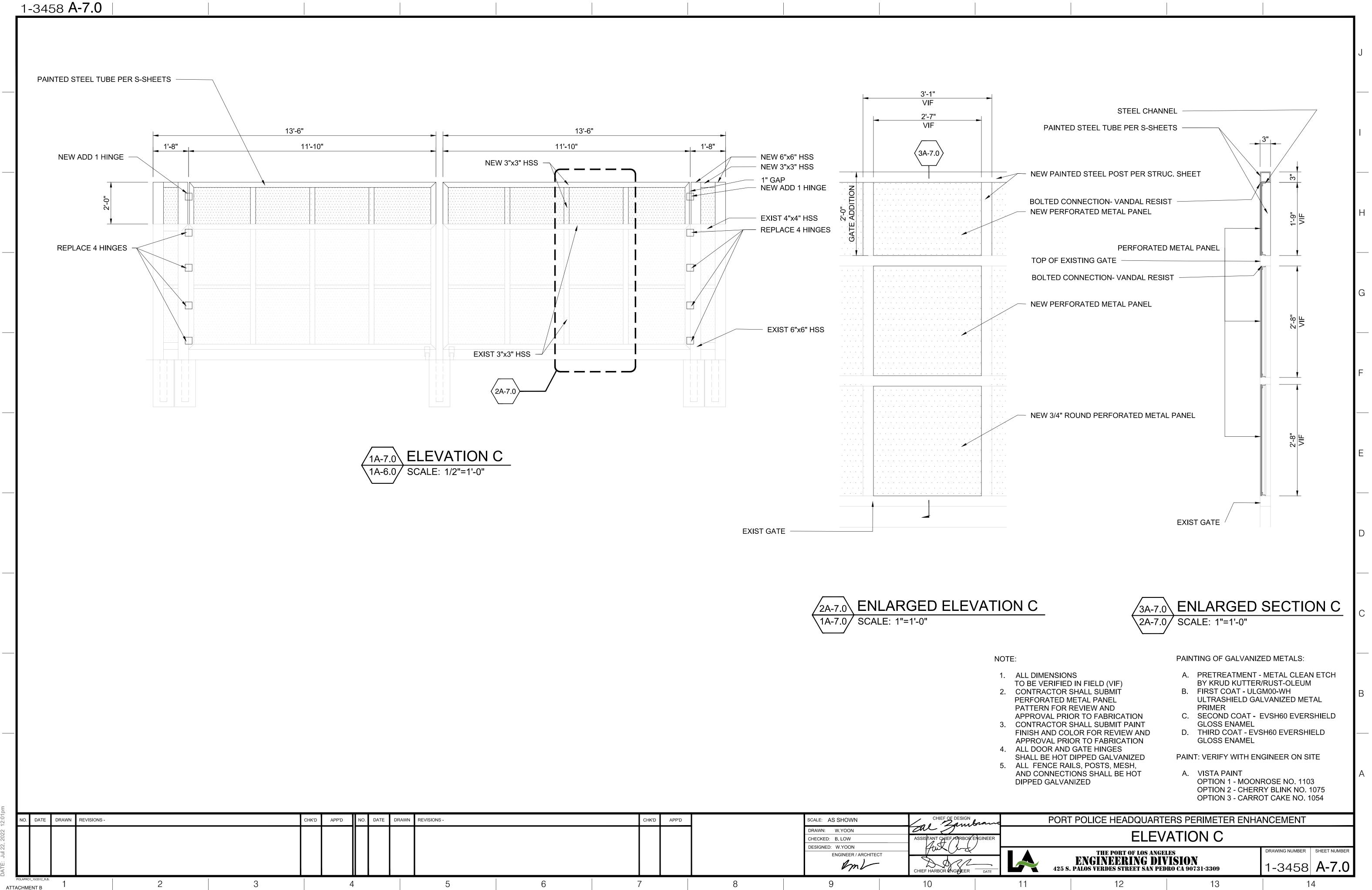


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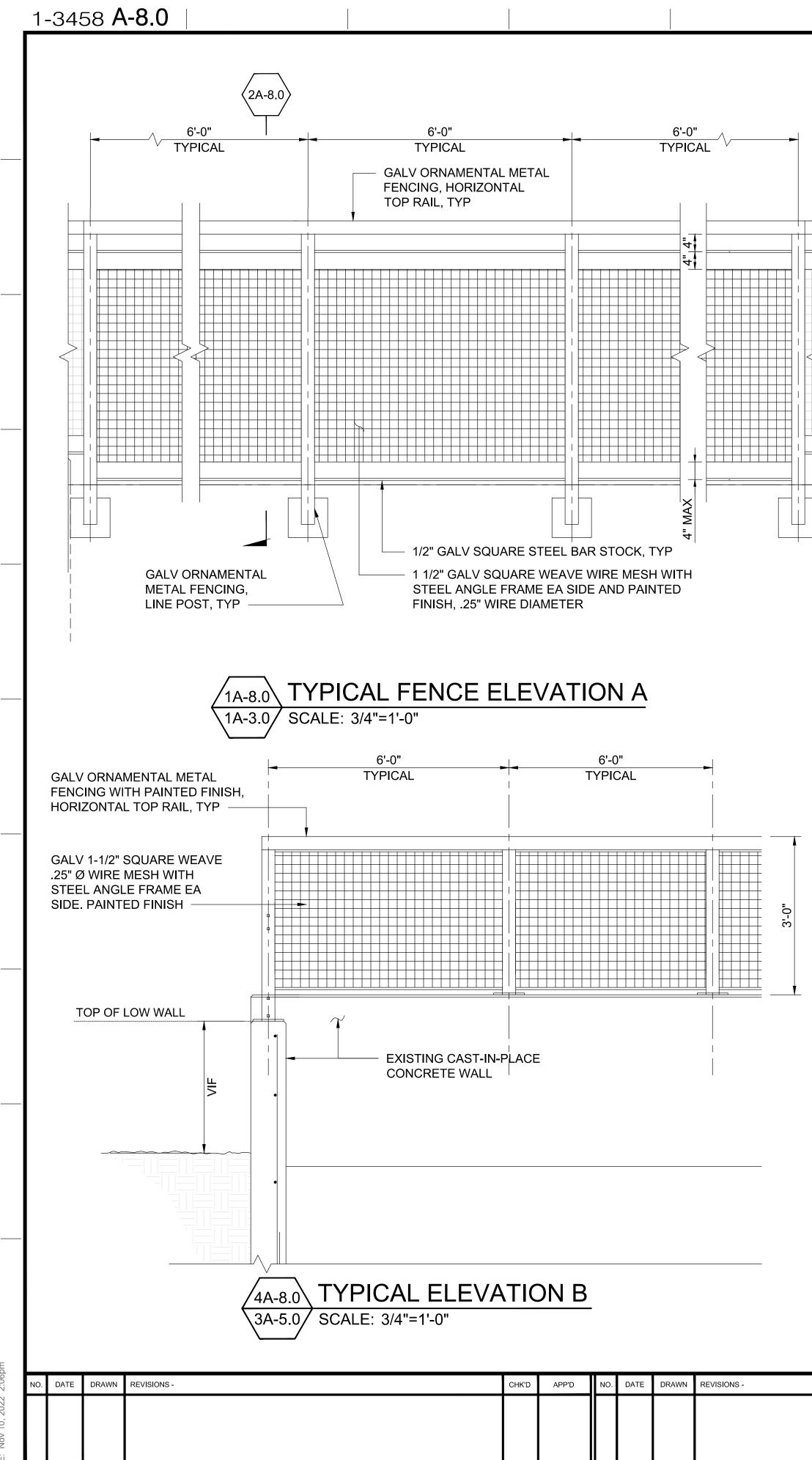
ATTACHMENT B

| SCALE: AS SHOWN | CHIEF OF DESIGN | ŧ |
|----------------------|---------------------------------|---|
| DRAWN: W.YOON | and | |
| CHECKED: B. LOW | ASSISTANT CHIEF HARBOR ENGINEER | 1 |
| DESIGNED: W. YOON | - Aut (had) | |
| ENGINEER / ARCHITECT | | |
| 9 | 10 | |

| | | _ |
|--|---|---|
| | KEYNOTES - FLOOR PLAN # KEYNOTE | |
| | 01 REPLACE ONLY INBOUND OPERATOR - LIFTMASTER - MODEL CSW200UL | J |
| | (OUTBOUND OPERATOR WAS ALREADY REPLACED BY BOE.) | |
| | 02 ADD NEW STEEL FENCE ON TOP OF EXISTING GATE SEE DETAIL 1A-7.0 | |
| | 03 EXISTING OUTBOUND OPERATOR | |
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| | NOTE | |
| | NOTE: 1. ALL DIMENSIONS TO BE VERIFIED IN FIELD (VIF) | D |
| | 2. CONTRACTOR SHALL SUBMIT PERFORATED METAL PANEL PATTERN FOR REVIEW AND APPROVAL PRIOR TO FABRICATION | |
| | CONTRACTOR SHALL SUBMIT PAINT FINISH AND COLOR FOR REVIEW AND APPROVAL PRIOR TO FABRICATION ALL DOOR AND GATE HINGES | |
| | 5. ALL BE HOT DIPPED GALVANIZED 5. ALL FENCE RAILS, POSTS, MESH, AND CONNECTIONS SHALL BE HOT DIPPED GALVANIZED | С |
| | PAINTING OF GALVANIZED METALS: | |
| | A. PRETREATMENT - METAL CLEAN ETCH BY KRUD KUTTER/RUST-OLEUM B. FIRST COAT - ULGM00-WH ULTRASHIELD GALVANIZED METAL | В |
| | PRIMER C. SECOND COAT - EVSH60 EVERSHIELD GLOSS ENAMEL D. THIRD COAT - EVSH60 EVERSHIELD | |
| | GLOSS ENAMEL PAINT: VERIFY WITH ENGINEER ON SITE | |
| | A. VISTA PAINT OPTION 1 - MOONROSE NO. 1103 OPTION 2 - CHERRY BLINK NO. 1075 OPTION 3 - CARROT CAKE NO. 1054 | А |
| | | |
| ENLARGED | DRAWING NUMBER SHEET NUMBER | |
| ENGINEERING DIVISI 425 S. PALOS VERDES STREET SAN PEDRO CA | 90731-3309 [1-3458 A-b.U | |
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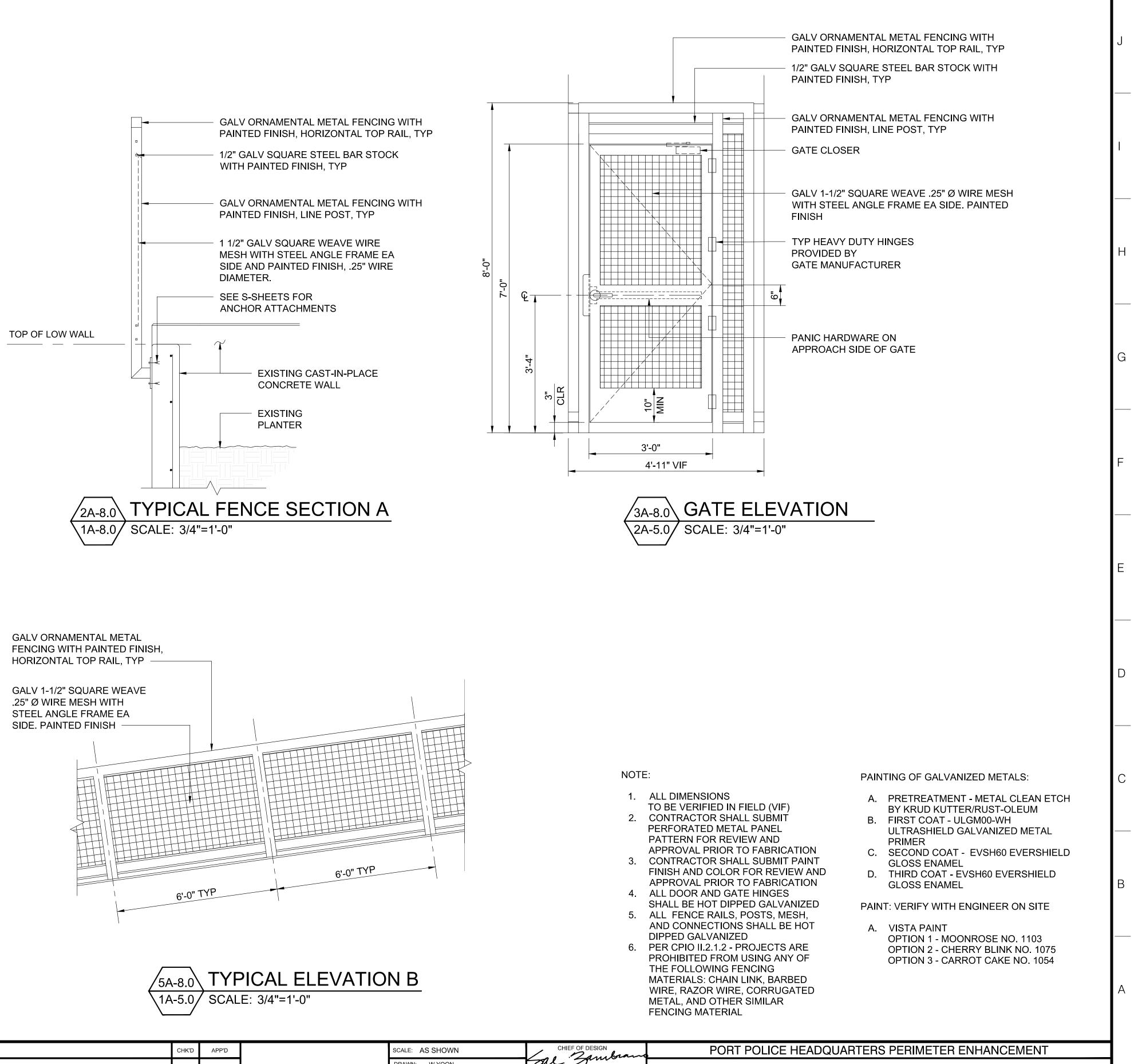


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| | | | | DRAWN: W.YOON CHECKED: B.LOW | | HARBOR ENGINEER | |
| | | | | DESIGNED: W.YOON ENGINEER / | CHIEF HARBOR | | |
| 6 | 7 | | 8 | 9 | 10 | | |



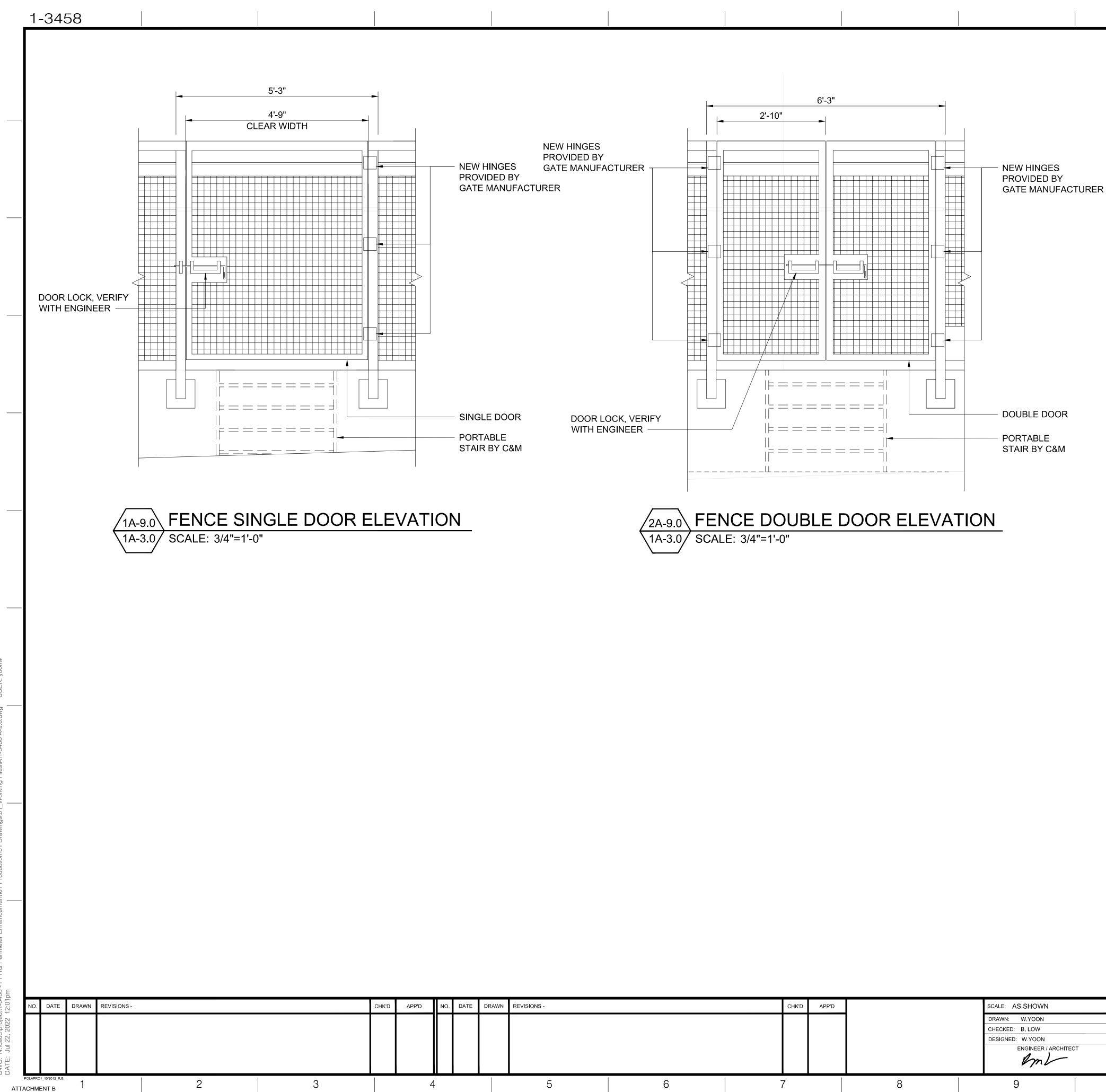
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ATTACHMENT B



| | CHK'D | APP'D | | SCALE: AS SHOWN | CHIEF OF DESIGN | ~ |
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| | | | | DRAWN: W.YOON CHECKED: B.LOW DESIGNED: W.YOON ENGINEER / ARCHITECT | ASSISTANT CHIEF HARBOR ENGINEED | ₹ |
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NOTE:

- 1. ALL DIMENSIONS TO BE VERIFIED IN FIELD (VIF) 2. CONTRACTOR SHALL SUBMIT

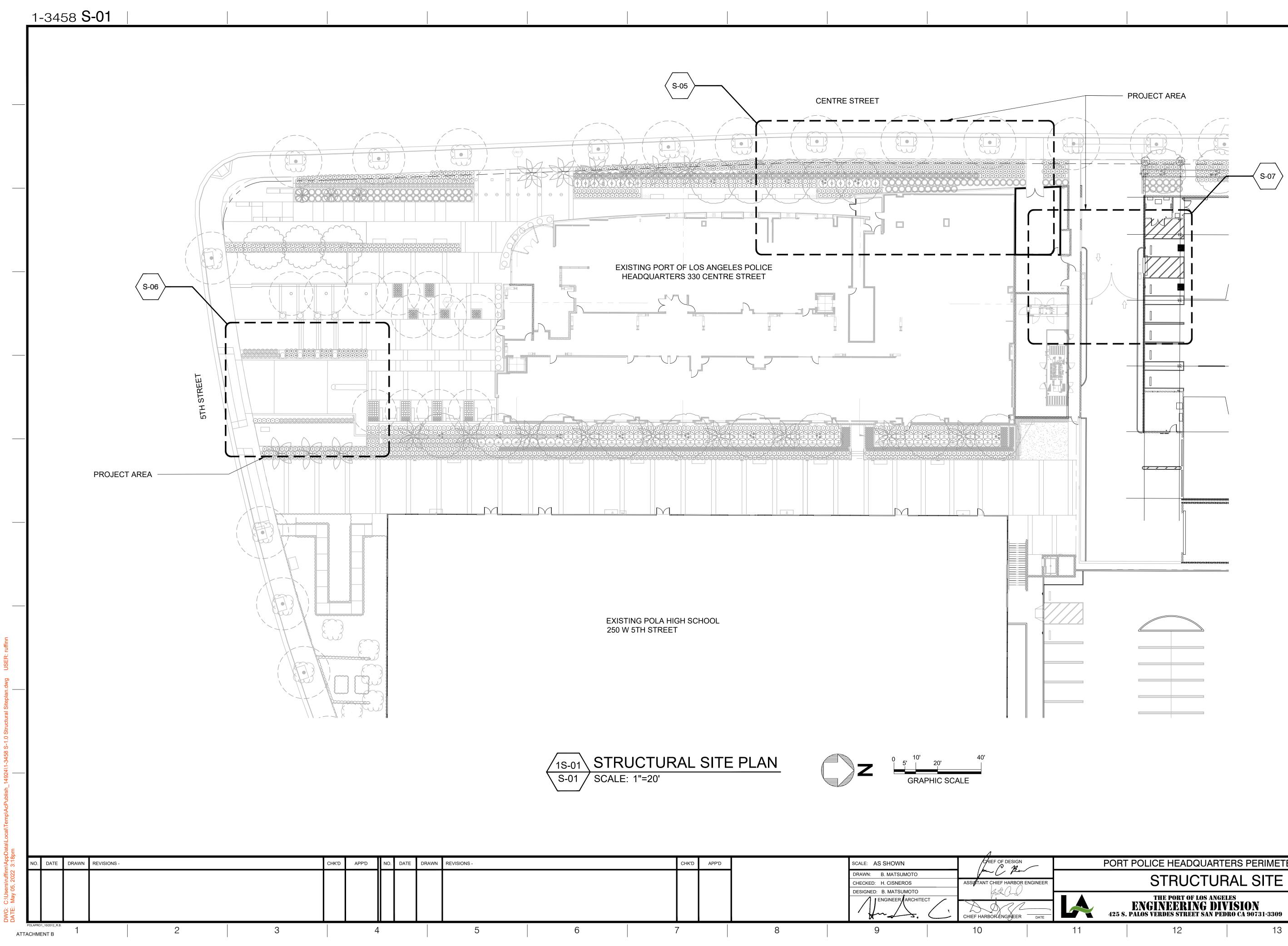
- PAINTING OF GALVANIZED METALS:
- A. PRETREATMENT METAL CLEAN ETCH

- BY KRUD KUTTER/RUST-OLEUM
- B. FIRST COAT ULGM00-WH

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| | CHK'D | APP'D | | SCALE: AS SHOWN | | | |
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| | | | | DRAWN: B. MATSUMOTO | | form from | |
| | | | | CHECKED: H. CISNEROS | | ASSISTANT CHIEF HARBOR EN | IGINEER |
| | | | | DESIGNED: B. MATSUMOTO | | fut ()-{ | |
| | | | | ENGINEER ARCHITE | CTT | CHIEF HARBOF ENGINEER | DATE |
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| | PORT POLICE HEADQUART | ERS PERIMETER ENHA | NCEMENT | |
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| | STRUCTUF | RAL SITE PLAN | | |
| | the port of los ange ENGINEERING DIV 425 s. palos verdes street san pei | VISION | DRAWING NUMBER | SHEET NUMBER |
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| STROUGHART VELONING THE UNITED VERSION REPORTED ON ANY CONTROL OF ANY CONTROL AND ANY CONTROL AND | | IERAL NOTES. | | • - - | | | ſ | ONCRETE: |
|--|-------|--|-----|------------------|---------------------------|--|----------------|---|
| Bergelande Marken (1999) Bergelande Marken (| | | | | | | <u>C</u> 1. | PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION |
| Decomposition and a maximum sequence of the construction of the construct | | | I | | IN ACCO FABRIC | ORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, ATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS | | REINFORCED CONCRETE', ACI 318, WITH MODIFICATIONS AS NOTED I |
| Avecage of the set of the se | 2. | DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS. | | | , | , , , , , , , , , , , , , , , , , , , | 2. | SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTHS & TYPE |
| MAINTENDER VARTENDE VARTEN | - | OVER GENERAL NOTES AND TYPICAL DETAILS. CONDITIONS NOT | 2 | | GRADE | 50 WHERE INDICATED ON DRAWINGS. | | FOOTINGS, GRADE BEAMS, MAT FOUNDATIONS 4000 HARDR |
| CHICKNA ACLEVY THOLT TO THE LEGY ALL EQUIRELITY DIFFERENCE | | | 2 | | | | | SLAB ON GRADE (UNO) 4000 HARDR |
| The Contract requirement requ | | CHECKING AGENCY PRIOR TO THEIR USE. ALL REQUIREMENTS | r | | | | 3 | OTHER CONCRETE 3000 HARDE |
| Constructions and instructions due to be services. Constructions and instructions and instructions and instructions and instructions and instructions. Constructions and instructions and instructions and instructions. Constructions and instructions and instructions. Constructions and instructions. Constructions and instructions. Constructions and instructions. Constructions. Construction | 5. | THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. | - | | | | 4. | AGGREGATE FOR HARDROCK CONCRETE ASTM C 33. EXCEPTIONS N |
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| A MENORANDE MARTINU INCLIDE MENERATION IN THE CONTRACT CONTRACTOR STORE THE SUBJECT STORE THE SUBJECT STORE THE SUBJECT STORE TO AN OF ANY THE SUBJECT STORE THE | | MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. | ľ | | THAN N | OMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE. | 6 | PROVIDE THE SPECIFIED CAMBERS SHOWN ON THE DRAWINGS. |
| BEINDARY BUILDS AND BUILD WATERS AND RECORD ON THE MANTANED IN PERMITSION ARE AND ALL MATTER DUTING ARE WELDING. 7. THE CONTRACTOR SHALL INVESTIGATE STET OF RILLED EXCANATORING OR BUILDED STORES SERVICE. SECRET OF RILLED EXCANATORING OR BUILDED STORES STORES SERVICE INTERCENT 0. 9. WELDING CONTRACTOR SHALL INVESTIGATE STATE OF RILLED EXCANATORING OR BUILDED STORES STATE. SHALL BE WATERS AND IN READORNMENT WITH PENETRATION ARE INDUCATED AS A SHALL BE ASSOCIATION OF REAL DOWN BUILDED STATE. CONFORMANCE TO CONTRACTOR STATE. SHALL BE WATERS AND IN RECORD MARKET WITH PENETRATION ARE INDUCATED AS A REPORT OF THE LANGE MAIN ARE INDUCATED AS A REPORT OF THE LANGE MAIN ARE INDUCATED AS A REPORT OF THE LANGE MAIN ARE INDUCATED AS A REPORT OF THE LANGE MAIN ARE INDUCATED AS A REPORT OF THE ANALON OF PENETRATION ARE INDUCATED AS A REPORT OF THE ANALON OF THE ANALON OF PENETRATION ARE INDUCATED AS A REPORT OF THE ANALON OF PENETRATION ARE INDUCATED AS A REPORT OF THE ANALON OF PENETRATION ARE INDUCATED AS A REPORT OF THE ANALON OF PENETRATION ARE INDUCATED AS A REPORT OF THE ANALON OF PENETRATION ARE INDUCATED AS A REPORT OF THE ANALON OF PENETRATION ARE INDUCATED AS A REPORT OF THE ANALON OF PENETRATION ARE INDUCATED AS A REPORT OF THE ANALON OF PENETRATION ARE INDUCATED AS A REPORT OF THE ANALON OF PENETRATION ARE INTO A REPORT OF THE ANALON OF PENETRATION ARE INTO A REPORT OF THE ANALON OF PENETRATION ARE INTO A REPORT OF THE ANALON OF | 6. | ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. SPECIFICATIONS, CODES AND STANDARDS NOTED IN THE CONTRACT | 8 | | FOR WE WELDIN OTHER | LDING BUILDING CONSTRUCTION (AWS D1.1) OF THE AMERICAN G SOCIETY. ELECTRODES TO BE E70 SERIES UNLESS NOTED VISE. COMPLETE JOINT PENETRATION WELDS BETWEEN | 0. | ELEVATIONS BASED ON THE ARCHITECTURAL DRAWINGS PLUS THE ADDITION OF ANY CAMBERS INDICATED ON THE CONSTRUCTION DOCUMENTS. THIS LOG SHALL INDICATE SCREED ELEVATIONS PRIOR TO THE CONCRETE POUR, AND TOP OF CONCRETE |
| P. THE CONTRACTOR BINULL INVESTIGATE STITTER OF ILLED ECONNECTION AND IN DUCE TO A STILLED ECONNECTION AND IN THE AND A STILLED AND A STIL | | SUPPLEMENTS, UNLESS OTHERWISE NOTED. MATERIAL SPECIFICATIONS | c | | _ | | 7. | THE CONCRETE SLAB THICKNESS SHALL BE MAINTAINED UNLESS |
| ETC IP ANY SUCH STRUCTURES ARE FOUND, ENGINEER SHALL BE NOTEFICE MAREMATERY. 10. NUMERING STRUCTURES ARE FOUND, ENGINEER SHALL BE NOTEFICE MAREMATERY. 10. NUMERING STRUCTURES ARE FOUND, ENGINEER SHALL BE NOTEFICE MAREMATERY. 10. NUMERING STRUCTURES ARE FOUND, ENGINEER SHALL CONFORM TO AGING AND AL ADDRES RUES SOLUTION. 10. NUMERING STRUCTURES ARE FOUND, ENGINEER SHALL CONFORM TO AGING AND AL ADDRES RUES SOLUTION. 11. REINFORCING STELL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE DUILDING CODE REDURESMENTOR STANDARD PROFECTION DOCUMENTS. 11. WEILDING TSTS AND INSPECTIONS. 11. HE HOLDING CODE REDURES SOLUTION. 11. HE HOLDING COD REDURES SOLUTION. 11. HE HOLDING RUES SOLUTION. 11. HE HOLDING RUES SOLUTION. 2. REINFORCE HONG REDURES SOLUTION ANY MAIN AND RANGE HOW CODE REDURES COD REDURES SHALL BE WITH LOW HONG REDUCES REDURES SOLUTION. 11. HE HOLDING RUES ROLL RUES SOLUTION. 11. HE HOLDING RUES ROLL RUES SOLUTION. 11. HE HOLDING RUES ROLL RUES RUES ROL RUES RUES RUES ROL RU | | | č | | PENETF | ATION ARE INDICATED AS C.J.P. OR P.J.P. RESPECTIVELY. | 8. | DRY PACK OR NON SHRINK GROUT UNDER BASE PLATES, SILL |
| REINFORCING STELL: 1. WELDING CONCENT STELL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE BULDING CODE REGULIREMENTS FOR RENFORCING STELL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE BULDING CODE REGULIREMENTS FOR RENFORCING STALLS NAME THE MAILAID CO BUARDED PRACTICE FOR REINFORCED CONCERTE I CONSTRUCTION CONFORMANCE WITH THE BULDING CODE REGULIREMENTS FOR RENFORCING STRUCTION DOLUMENTS. 10. PLACEMENT OF CONCERTE SHALL BE PROVIDED FOR REINFORCEMENT FALL BE WITH LOW HOP ROOTEN CONSTRUCTION DOLUMENTS. 11. WELDING CODE REGULIREMENTS FOR REINFORCEMENT SHALL BE WITH LOW HOP ROOTEN CONSTRUCTION DOLUMENTS. 11. WELDING CODE REGULIREMENTS FOR REINFORCEMENT SHALL BE WITH LOW HOP ROOTEN ELECTRODES IN CONCERTS IN ALL BE WITH LOW HOP ROOTEN ELECTRODES IN CONCERTS IN ALL BE WITH LOW HOP ROOTEN ELECTRODES IN CONCERTS SHALL BE WITH LOW HOP ROOTEN ELECTRODES IN CONCENTS SHALL BE WITH LOW HOP ROOTEN IN TROUGH ALL SHALL BE WITH LOW HOP ROOTEN ELEVATOR ENHIPSING SHALL BE MODE COLD. 10. FOR ALL SHALL BE WITH LOW HOP ROOTEN IN TROUGH ALL SHALL BE WITH LOW HOP ROOTEN IN TROUGH ALL SHALL BE WITH LOW HOP ROOTEN IN TROUGH ALL SHALL SHALL BE WITH LOW HOP ROOTEN IN TROUGH ALL SHALL SHALL BE WITH LOW HOP ROOTEN IN TROUGH ALL SHALL SHALL BE WITH LOW HOP ROOTEN IN TROUGH ALL SHALL SHAL | | ETC IF ANY SUCH STRUCTURES ARE FOUND, ENGINEER SHALL BE | 1 | | | | 9 | |
| CONFORMANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE: GUILDING COLONG THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION BY THE CREATS AND THE WERE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION BY THE CREATS AND THE WERE MANUAL OF CONSTRUCTION DOCUMENTS. REINFORCE BARS, ASTM ARG GRADE 60 UNLESS NOTED OTHERWISE. REINFORCE BARS - STAN ARG GRADE 60 STANDARD PTH WERE THAN ALLOND EVANE BY MORE ALLOND EVANE BY MORE ALLOND EVANE BY MORE ALLOND EVANE BY MORE ALE PROPECHAN ALLOND EVANE BY MORE ALLOND EVANE BY MORE ALE PROPEC | REIN | IFORCING STEEL: | 1 | | LENGTH | I REQUIRED. WELD SIZE SHALL BE AISC MINIMUM UNLESS | |). PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 304 AND |
| STADARD PRACTICE FOR FEINFORCID ON ORCETE CONSTRUCTION BY THE CGS IND THE WCRSE; IN INCLUSION DEVICE FOR STRUCTION BY THE CGS IND THE WCRSE; IN INCLUSION DO LOURD BY THE CONSTRUCTION DO LOURD BY THE CONSTRUCTION DO LOURD BY THE CONSTRUCTION DO LOURD BY THE CONSTRUCTION DO CONSTRUCTION IN LESS WOTED OTHERWISE. IN INCLUSION DO LOURD BY THE CONSTRUCTION DO NOT COMBER MEMBERS SOCUCIRING BELOW ELECTODOS IN CONFORMANCE WITH RECOMBENDED PRACTICES FOR WELDING REINFORCING STEEL ETC.' AMERICAN WELDING SOCIET, VAN SD 14. IN INCLUSION DO NOT COMBER MEMBERS SOCUCIRING BELOW ELECTODOS IN CONFORMANCE WITH RECOMBENDED PRACTICES FOR WELDING REINFORCING STEEL ETC.' AMERICAN WELDING SOCIET, VAN SD 14. IN INCLUSION DO NOT COMBER MEMBERS SOCUCIRING BELOW ELECTODOS IN CONFORMANCE WITH RECOMBENDED PRACTICES FOR WELDING REINFORCING STEEL ETC.' AMERICAN WELDING SOCIET, VAN SD 14. IN INCLUSION DO NOT COMBER MEMBERS SOCUCIRING BELOW ELECTODOS IN CONFORMANCE WITH RECOMBENDED TO MEATILES WITHOUT SPECIFIED CAMBER SHALL BE STRUCTURAL STEEL EUROFACES TO BE WELDED OR HIGH-STRENGTH BOLTED, TO BE LINK SHALL BE LORAN IN CONFORMET AL EXPOSED TO WEATHER SHALL BE CLEARLY IDENTIFIED. IN INFORMATINE INFORCING AND AND NOT COMBER WELDED TO SHALL BE HOT DIP GALVANZED AFTER FARBRICAND. IN INFORMATINE INFORCEMENT, THES, STIRUPS, NOT SPIRALS. 10. STRUCTURAL STEEL AND MISCELLARE WWE WELDING DETAILS FOR ACCESSIBILITY. ANY WELD INDICATED AS A SHOP WELD MAY BE WELDED IN THE FLEW WITH APPROVED WHEL ANY BE WELDED IN THE FLEW WITH APPROVED WELD PROCEDURES AND INSPECTION. ANY WELD INDICATED AS A SHOP WELD MAY BE WELDED IN THE FLEW WELD BOOD DETAILS FOR ACCESSIBILITY. ANY WELD INDICATED AS A SHOP WELD MAY BE WELDED IN THE FLEW WELD BOOD DETAILS FOR ACCESSI | | CONFORMANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR | 1 | 12. | WELDIN | G TESTS AND INSPECTIONS - SEE SPECIFICATIONS. | 11 | |
| CONSTRUCTION DOCUMENTS: CANGER: AMOUNT MERSURED IN THE FIELD PRIOR TO ERECTION SHALL NOT DEVIATE BY MORE THAN ALLOWED BY THE AISC UNLESS AND TOTEO OTHERWISE. A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | | STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION' | 1 | 13. | | | | MIN |
| MELDING OF PENFORCEMENT SHALL BE WITH LOW HYDROGEN BLECTROBES IN CONFORMANCE WITH RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL, ETC.' AMERICAN WELDING SOCIETY, AWS D1.4. REINFORCING BAR BENDS SHALL BE MADE COLD. REINFORCING BAR BENDS SHALL BE MADE COLD. STRUCTURAL STEEL SUFFACES TO BE WELDEO OR HIGH-STRENGTH BOLTED. TO BE ENCASED IN CONCRETE. ON DE YEINISH WATERRALS. SHALL BE LEFT UNPAINTED. STRUCTURAL STEEL ADD MISCELLAREV WELDING DEATHER DOR HIGH-STRENGTH BOLTED. TO BE ENCASED IN CONCRETE. ON DE ENCLOSED BY FINISH WATERRALS. SHALL BE LEFT UNPAINTED. STRUCTURAL STEEL ADD MISCELLAREV WELDING DEATALE SPOSED TO WEATHER SHALL BE HOT DIP OF MEATHER SHALL BE HOT DIP OF MEATHER SHALL BE HOT DIP OF DE ENCLOSED BY FINISH WATERRALS. STRUCTURAL STEEL ADD MISCELLAREVUEW WELDING DETAILS FOR ACCESSIBILITY. ANY WELDINDICATED AS A SHOP WELD PROCEDURES AND INSPECTION. THE CONTRACTOR SHALL BE HOT DIP PROVED WELD PROCEDURES AND INSPECTION. ANY WELDINDICATED AS A SHOP WELD INDICATED AS A SHOP WELD PROCEDURES AND INSPECTION. ANY WELDINDICATED AS A SHOP WELD PROCEDURES AND INSPECTION. ANY WELDINDICATED AS A SHOP WELD PROCEDURES AND INSPECTION. ANY WELDINDICATED AS A SHOP WELD PROCEDURES AND INSPECTION. ANY WELDED WITH APPROVED WELD PROCEDURES AND BRIDGES. PROJES LEEVES FOR PLACING SIN CICORATE IS INSPECTION. ANY WELDED WITH APPROVED WELD PROCEDURES AND INSPECTION. ANY WELDED WITH APPROVED WELD PROCEDURES AND INSPECTION. ANY WELDED WITH APPROVED WELD PROCEDURES AND BRIDGES. PROJES LEEVES FOR PLACING SIN ON THE DRAWINGS. PROJES SHOWN ON THE DRAWINGS. PROJES SHOWN ON THE DRAWINGS. PROJECTING EXPOSED CORNERS OF BEAMANT. DON FOR THE TO PARI | 2. | CONSTRUCTION DOCUMENTS. REINFORCING BARS - ASTM A615 GRADE 60 OR ASTM A706 GRADE 60 | | | C/ SH SF | AMBER. AMOUNT MEASURED IN THE FIELD PRIOR TO ERECTION IALL NOT DEVIATE BY MORE THAN ALLOWED BY THE AISC PECIFICATIONS. DO NOT CAMBER MEMBERS OCCURRING BELOW | | A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH |
| REINFORCING BAR BENDS SHALL BE MADE COLD. STRUCTURAL STEEL SURFACES TO BE WELDED OR HIGH-STRENGTH BOLTED, TO BE ENCASED IN CONCRETE, OR TO BE ENCLOSED BY FINISH MATERIALS SHALL BE LEFT UNPAINTED. STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. THE CONTRACTOR SHALL REVIEW WELDING DETAILS FOR ACCESSIBILITY. ANY WELD INDICATED AS A SHOP WELD MAY BE WELDED IN THE FIELD WITH APPROVED WELD PROCEDURES AND INSPECTION. ANY WELD INDICATED AS A SHOP WELD PROCEDURES AND INSPECTION. ANY WELD INDICATED AS A FIELD WITH APPROVED WELD PROCEDURES AND INSPECTION. ANY WELD STRUCTURAL STEEL (ASS) SECTION 10 OF THE AISC CODE OF PRACTICE FOR STEEL BUILDINGS AND BRIDGES. CONDUIT OR PIPE SIZE (OUTSIDE DIAMETER) SHALL NOT EXCEED O SUBJECT OR DIAMES SHALL BE AVOIDED EXCURPE AND SHALL BE SOURCE FOR STEEL BUILDINGS AND BRIDGES. PROVED SUBJECT OR DIAMES SPECIFICIAL OPENINGS. CONDUIT OR PIPE SIZE (OUTSIDE DIAMETER) SHALL NOT EXCEED O SUBJECT OF PRACTICE FOR STEEL BUILDINGS AND BRIDGES. PROJECTING PIPE SIZE (OUTSIDE DIAMETER) SHALL NOT EXCEED O SUBJECT OF PRACTICE FOR STEEL BUILDINGS AND BRIDGES. PROJECTING SO CONDUITS OF PIPES SHALL BE AVOIDED EXC WHED DE ON THE DERED STRUCTURAL STEEL (ASS) SECTION 10 OF THE AISC CODE OF PRACTICE FOR STEEL BUILDINGS AND BRIDGES. PROJECTING ENFORCING UNES SPECIFICAL OPENINGS ARE PROVIDED. PROJECTING SO CONDUITS OR PIPES SHALL BE AVOIDED EXC WHE ENFORCENCE AND SHALL BES SPECIFICALL DOTHERWN CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXC WHE ENFORCENCE AND SHALL BES SPECIFICALL OPENINGS. ARE PROVIDED. PROJECTING EXPOSED CORNERS OF BEAMS, WALLS, COLUMNS, ET FORMED WITH A 34 IN CHAMPER, UNLESS OTHERWISE NOTED ON | | ELECTRODES IN CONFORMANCE WITH 'RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL, ETC,' AMERICAN WELDING | | | FA TC | BRICATED SO THAT AFTER ERECTION ANY MINOR CAMBER DUE OROLLING OR SHOP ASSEMBLY SHALL BE UPWARD. TOP OF | | C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS AND JOISTS: #14 AND #18 BARS |
| STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSE SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL DE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL DE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL DE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL DE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHALL DE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. EXPOSED STEEL SHALL CONFORM TO REQUIREMENTS OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SECTION 10 OF THE AISC CODE OF PRACTICE FOR STEEL BUILDINGS AND BRIDGES. CONDUIT OR PIPE SIZE (OUTSIDE DIAMETER) SHALL NOT EXCEED O SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE OP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWI CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXC WHERE DETAILED OPENINGS ARE PROVIDED. PROJECTING EXPOSED CORNERS OF BEAMS, WALLS, COLUMNS, ET FORMED WITH A 3/4 IN CHAMFER, UNLESS OTHERWISE NOTED ON | 4. | REINFORCING BAR BENDS SHALL BE MADE COLD. | 1 | | BOLTED | , TO BE ENCASED IN CONCRETE, OR TO BE ENCLOSED BY FINISH | | BEAMS, COLUMNS AND WALL JAMBS PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS: #3 THROUGH #11 |
| 18. THE CONTRACTOR SHALL REVIEW WELDING DETAILS FOR ACCESSIBILITY. ANY WELD INDICATED AS A SHOP WELD MAY BE WELDED IN THE FILED WITH APPROVED WELD PROCEDURES AND INSPECTION. ANY WELD INDICATED AS A FIELD WELD PROCEDURES AND INSPECTION. ANY WELD INDICATED AS A FIELD WELD PROCEDURES AND INSPECTION. ANY WELDED WITH APPROVED WELD PROCEDURES AND INSPECTION. 19. EXPOSED STEEL SHALL CONFORM TO REQUIREMENTS OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SECTION 10 OF THE AISC CODE OF PRACTICE FOR STEEL BUILDINGS AND BRIDGES. 14. CONDUIT OR PIPE SIZE (OUTSIDE DIAMETER) SHALL NOT EXCEED O SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWI CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXC WHERE DETAILED OPENINGS ARD BRIDGES. 15. PROJECTING EXPOSED CORNERS OF BEAMS, WALLS, COLUMNS, ET FORMED WITH A 3/4 IN CHAMFER, UNLESS OTHERWISE NOTED ON | | | 1 | | | | 12 | 2. REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSER |
| WELDED IN THE FIELD WITH APPROVED WELD PROCEDURES AND INSPECTION. ANY WELD INDICATED AS A FIELD WELD MAY BE SHOP WELDED WITH APPROVED WELD PROCEDURES AND INSPECTION. EXPOSED STEEL SHALL CONFORM TO REQUIREMENTS OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SECTION 10 OF THE AISC CODE OF PRACTICE FOR STEEL BUILDINGS AND BRIDGES. MAY CONDUIT OR PIPE SIZE (OUTSIDE DIAMETER) SHALL NOT EXCEED O SLAB THICKNESS AND GUALL BE PLACED BETWEEN THE TO PAND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWING CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCUPIED. PROJECTING EXPOSED CORNERS OF BEAMS, WALLS, COLUMNS, ET FORMED WITH A 3/4 IN CHAMFER, UNLESS OTHERWISE NOTED ON | | | 1 | | | | 12 | SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRE |
| EXPOSED STEEL SHALL CONFORM TO REQUIREMENTS OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SECTION 10 OF THE AISC CODE OF PRACTICE FOR STEEL BUILDINGS AND BRIDGES. CONDUIT OR PIPE SIZE (OUTSIDE DIAMETER) SHALL NOT EXCEED O SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWI CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXC WHERE DETAILED OPENINGS ARE PROVIDED. PROJECTING EXPOSED CORNERS OF BEAMS, WALLS, COLUMNS, ET FORMED WITH A 3/4 IN CHAMFER, UNLESS OTHERWISE NOTED ON | | | | | WELDEI ANY WE | D IN THE FIELD WITH APPROVED WELD PROCEDURES AND INSPECTION INDICATED AS A FIELD WELD MAY BE SHOP | - | CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHI MAY CONFLICT, CORING IN CONCRETE IS NOT PERMITTED EXCEPT A SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF |
| WHERE DETAILED OPENINGS ARE PROVIDED. 15. PROJECTING EXPOSED CORNERS OF BEAMS, WALLS, COLUMNS, ET FORMED WITH A 3/4 IN CHAMFER, UNLESS OTHERWISE NOTED ON | | | 1 | | ARCHIT | ECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SECTION 10 OF TH | IE 14 | 4. CONDUIT OR PIPE SIZE (OUTSIDE DIAMETER) SHALL NOT EXCEED OI SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWI |
| FORMED WITH A 3/4 IN CHAMFER, UNLESS OTHERWISE NOTED ON | | | | | | | | WHERE DETAILED OPENINGS ARE PROVIDED. |
| | | | | | | | 15 | FORMED WITH A 3/4 IN CHAMFER, UNLESS OTHERWISE NOTED ON |
| | | | | | | | | 1 |
| * | E DRA | AWN REVISIONS - CHK'D APP'D | NO. | DATE | DRAWN F | REVISIONS - CHK'D APP' | D | SCALE: AS SHOWN |
| | | | | | | | | CHECKED: H. CISNEROS ASSISTANT CHIEF HARBO DESIGNED: B. MATSUMOTO |
| DRAWN: B. MATSUMOTO DRAWN: B. MATSUMOTO CHECKED: H. CISNEROS DESIGNED: B. MATSUMOTO | | | | | | | | ENGINEER ARCHITECT |

DWG: DATE:

| LOCATION IN STRUCTURE | STRENGTH PSI | TYPE |
|-------------------------------------|--------------|----------|
| FOOTINGS, GRADE BEAMS, MAT FOUNDATI | ONS 4000 | HARDROCK |
| STRUCTURAL SLAB | 4000 | |
| SLAB ON GRADE (UNO) | 4000 | HARDROCK |
| PRECAST CONCRETE PILE | 6500 | |
| OTHER CONCRETE | 3000 | HARDROCK |

| | MINIMUM |
|--|--------------|
| | COVER, INCHE |
| A. CONCRETE CAST AGAINST AND | |
| PERMANENTLY EXPOSED TO EARTH | 3 |
| B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER | २: |
| #6 THROUGH #18 BARS | 2 |
| #5 BAR, W31 OR D31 WIRE, AND SMALLER | 1 1/2 |
| C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTAC | T |
| WITH GROUND: | |
| SLABS, WALLS AND JOISTS: | |
| #14 AND #18 BARS | 1 1/2 |
| #11 BAR AND SMALLER | 1 |
| BEAMS, COLUMNS AND WALL JAMBS | |
| PRIMARY REINFORCEMENT, TIES, STIRRUPS, | |
| AND SPIRALS: | |
| #3 THROUGH #11 | 1 1/2 |
| #14 AND #18 BARS | 2 1/2 |
| | |
| REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRET | E INSERTS |

- DF
- ΒE

| PORT POLICE HEADQUARTERS PERIMETER ENHANCEMENT | | | | | | | | | | |
|--|--|----------|----------------|--------------|--|--|--|--|--|--|
| | GENER | AL NOTES | | | | | | | | |
| | THE PORT OF LOS ANGEI ENGINEERING DIV 425 S. PALOS VERDES STREET SAN PED | ISION | drawing number | SHEET NUMBER | | | | | | |
| | 420 S. FAMOS VERDES STREET SAN FED | | 1 0400 | 0.02 | | | | | | |
| 11 | 12 | 13 | 1 | 4 | | | | | | |

| PECIAL INSPE | ECTIONS AND TESTS | <u> </u> | | | |
|---------------------------|--|----------------------|---------------------|---------------------------------|----------------|
| SPECIAL INSPEC | TION AND TESTS SHALL BE | E PERFORMED IN ACCOR | DANCE WITH CHAPT | ER 17 OF THE LOS ANGELES | |
| | TION BY A REGISTERED DE ES OF WORK. SEE PROJEC | | , | THE ENGINEER SHALL BE R | EQUIRED |
| | | | | EMISES OF A FABRICATOR F | DECISTE |
| | HE CITY OF LOS ANGELES | | | | NEGISTE |
| | | | TABLE 1705A | .2.1 ON OF STEEL CONSTRUCT | |
| | VERIFI | | | | |
| 1. MATERIAL VERI | FICATION OF HIGH-STRENG | | | | |
| A. IDENTIFIC DOCUMEI | | FORM TO ASTM STANDA | RDS SPECIFIED IN TH | HE APPROVED CONSTRUCT | ION |
| | CTURER'S CERTIFICATE OF | | | | |
| | HIGH-STRENGTH BOLTING | S: | | | |
| A. SNUG-TIG B. PRETENS | | JOINTS USING TURN-OF | -NUT WITH MATCHM | ARKING, TWIST-OFF BOLT O | R DIREC |
| | INDICATOR METHODS OF | | | CHMARKING OR CALIBRATE | |
| | S OF INSTALLATION | | | | |
| . MATERIAL VERI | FICATION OF STRUCTURAL | STEEL AND COLD-FORM | IED STEEL DECK: | | |
| | UCTURAL STEEL, IDENTIFIC ER STEEL, IDENTIFICATION | | |). RDS SPECIFIED IN THE APPI | ROVED |
| | JCTION DOCUMENTS | | | | |
| | CTURER'S CERTIFIED TEST | | | | |
| | FICATION OF WELD FILLER | | | | |
| A. IDENTIFIC | CATION MARKINGS TO CON | FORM TO AWS SPECIFIC | ATION IN THE APPRO | OVED CONSTRUCTION DOCU | JMENIS |
| B. MANUFAC | CTURER'S CERTIFICATE OF | COMPLIANCE REQUIRED |) | | |
| . INSPECTION OF | _ | | | | |
| | JRAL STEEL AND COLD-FOI PLETE AND PARTIAL JOINT | | WELDS | | |
| | TIPASS FILLET WELDS | PENETRATION GROUVE | WELDS | | |
| | LE-PASS FILLET WELDS > 5 | 5/16" | | | |
| 4. PLUG | GAND SLOT WELDS | | | | |
| 5. SING | LE-PASS FILLET WELDS ≤ 0 | OR EQUAL TO 5/16" | | | |
| | OR AND ROOF DECK WELDS | 6 | | | |
| B. REINFOR 1. VERIF | CING STEEL: FICATION OF WELDABILITY | | | 4706 | |
| | | | | EDIATE AND SPECIAL MOME | |
| | | | | E AND SHEAR REINFORCEM | |
| 3. SHEA | R REINFORCEMENT | | | | |
| 4. OTHE | R REINFORCING STEEL | | | | |
| . INSPECTION OF | STEEL FRAME JOINT DET | AILS FOR COMPLIANCE: | | | |
| | | | | | |
| A. DETAILS S | SUCH AS BRACING AND ST | IFFEINING | | | |
| | SUCH AS BRACING AND ST LOCATIONS | IFFENING | | | |

| NO. DA | TE D | DRAWN | REVISIONS - | CHK'D | APP'D | NO. | DATE | DRAWN | REVISIONS - | CHK'D | APP'D | | SCALE: AS SHOWN | |
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| | | | | | | | | | | | | | DRAWN: B. MATSUMOTO | form C Par |
| | | | | | | | | | | | | | CHECKED: H. CISNEROS | ASSISTANT CHIEF HARBOR ENGINEER |
| | | | | | | | | | | | | | DESIGNED: B. MATSUMOTO | Aut - |
| | | | | | | | | | | | | | ENGINEER ARCHITECT | |
| DLAPRO1_10/20 | | 1 | 2 3 | | 4 | | | | 5 6 7 | 7 | | 8 | 9 | 10 |

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| | CONTINUOUS | PERIODIC | STANDARD | REFERENCE |
| | | | | |
| | | Х | AISC 360, SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS | |
| | | Х | | |
| | L | | | I |
| | | X | | |
| ECT | | X | AISC 360, | |
| ENCH | | | SECTION M2.5 | |
| | X | | | |
| | | | | |
| | | X | AISC 360, SECTION A3.1 | 2203A.1 |
| D | | х | APPLICABLE ASTM | |
| | | | MATERIAL STANDARDS | |
| | | X | | |
| | 1 | | | 1 |
| TS | | Х | AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS | |
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| | Х | | AWS D1.1 AWS D1.8 | 1705A.2.1 |
| | Х | | | |
| | | Х | | |
| | | Х | AWS D1.3 | |
| | | | | I |
| | | Х | | |
| RAMES, | Х | | AWS D1.4, | |
| | ^ | | | |
| | Х | | SECTIONS 26.6.4.1, 18.2.8, 25.5.7.4 | |
| | | Х | | |
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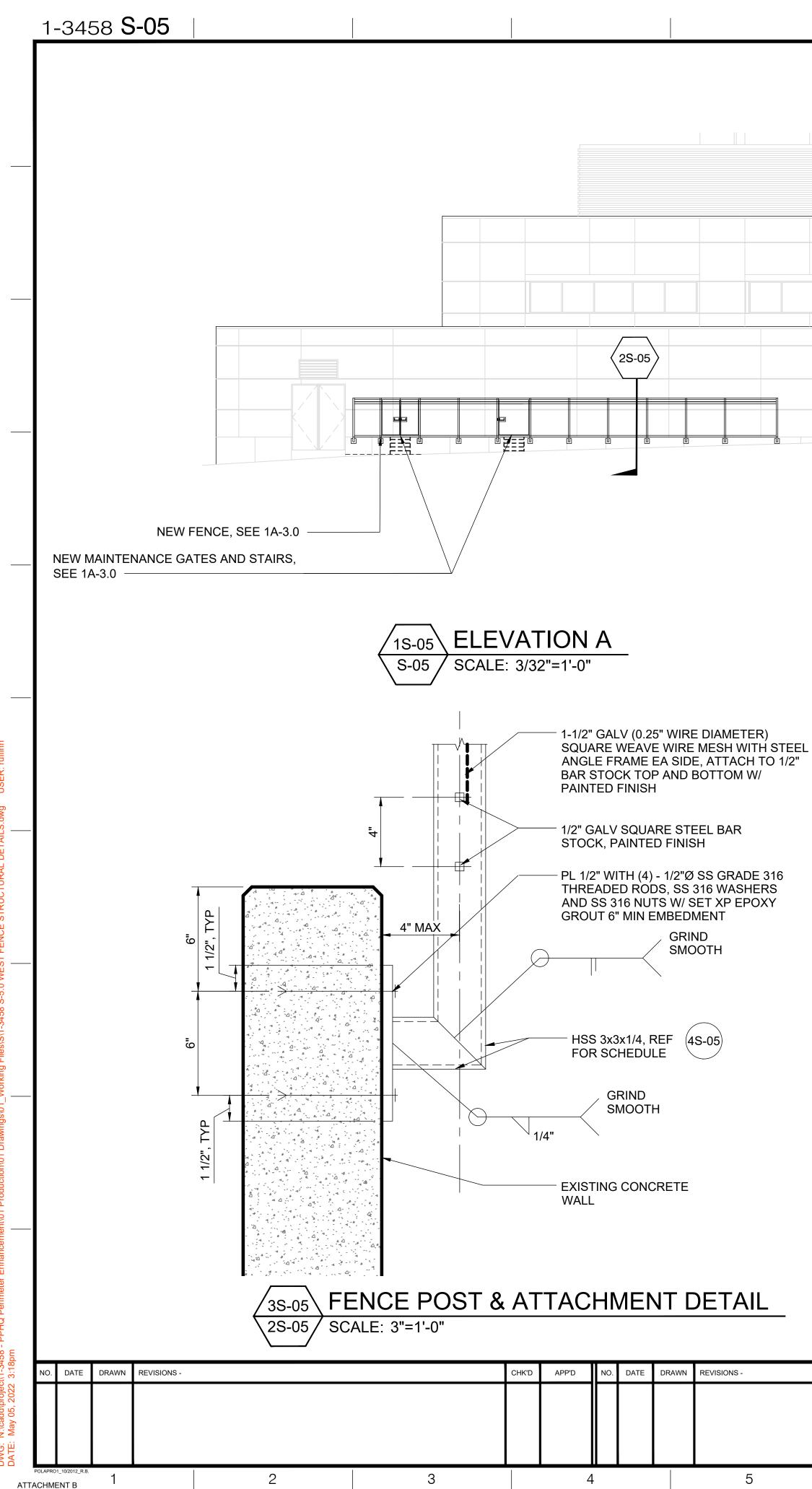
| PORT POLICE HEADQUARTERS PERIMETER ENHANCEMENT | | | | | | | | | | | |
|--|---------------------|---------------------------------------|--|----|----------------|--------------|--|--|--|--|--|
| | SPECIAL INSPECTIONS | | | | | | | | | | |
| | | THE PORT OF LOS | | | DRAWING NUMBER | SHEET NUMBER | | | | | |
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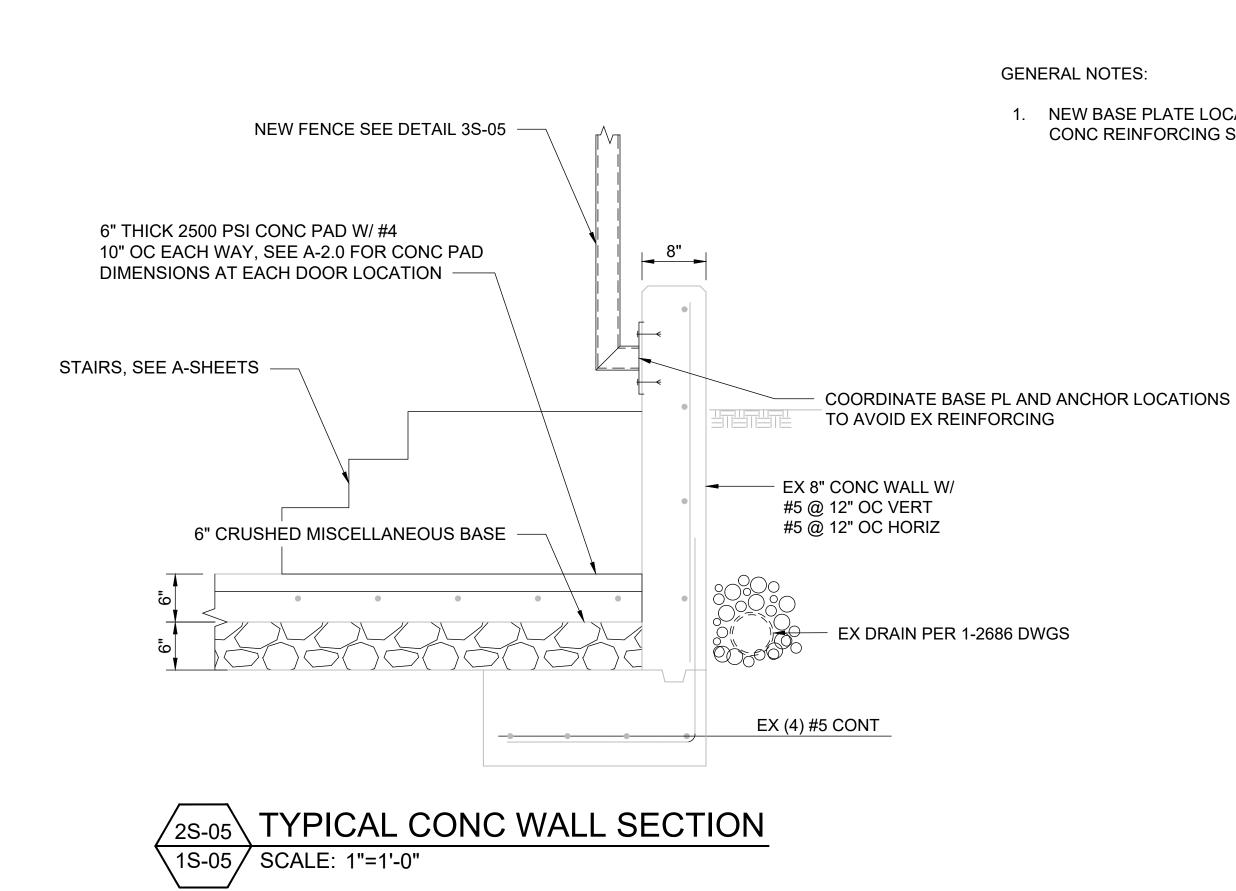
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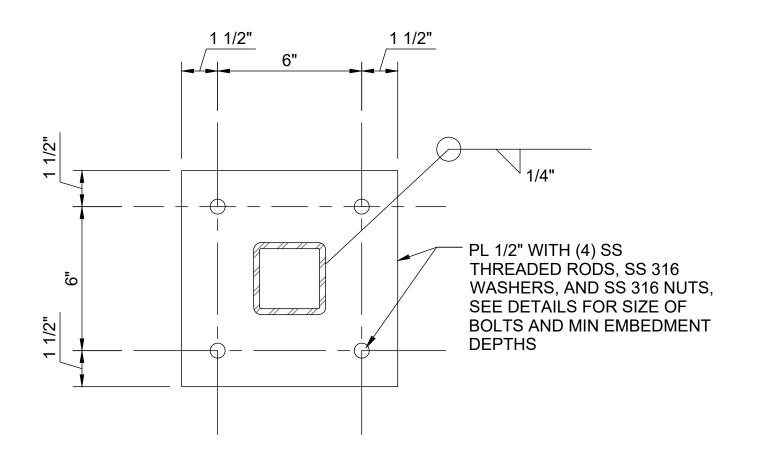
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| 3458 S-04 | | | | | | | | | |
|--|--|----------|---|-----------------|---------------------------------|---------|----------------------------------|----------|------------------------------|
| | | | | | STRUCTURA | L ABB | REVIATIONS | | |
| | GENERAL NOTES FOR STRUCTURAL OBSERVATION: | AB | ANCHOR BOLT | DWG | DRAWING | INFO | INFORMATION | REF | REFERENCE |
| | 1. STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN | ACI | AMERICAN CONCRETE | DWL | DOWELS | INT | INTERIOR | REQ'D | REQUIRED |
| LACODBS Los Angeles Regional Uniform Code Program | ACCORDANCE WITH THE INFORMATION BULLETIN NO. P/BC 2017-024 STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION AT THE CONSTRUCTION SITE OF THE | ADDL | ADDITIONAL | | | IP | INDICATOR PILE | REINF | REINFORCEMEN |
| DEPARTMENT OF BUILDING AND SAFETY CODE PROGRAM COMMITTEE I-3: Structural Observation | ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT | | ALTERNATE | EA | EACH | | JOIST | | ROOF JOIST |
| | CONSTRUCTION STAGES AND THE COMPLETE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT | ARCH | ARCHITECT(URAL) | EBF | | | JOINT | | ROOF JOIST |
| STRUCTURAL OBSERVATION PROGRAM | WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING | | · · · · | | | JI | | RJ | |
| AND DESIGNATION OF THE | INSPECTOR OR THE DEPUTY INSPECTOR. | ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | EF | EACH FACE | KSI | KIP PER SQUARE INCH | SC | SLIP CRITICAL |
| STRUCTURAL OBSERVER | 2. THE OWNER SHALL EMPLOY A STATE OF CALIFORNIA REGISTERED CIVIL OR STRUCTURAL | AWS | AMERICAN WELDING | EJ | EXPANSION JOINT | LBS | POUNDS | SECTS | SECTIONS |
| PROJECT ADDRESS: 330 S CENTRE ST SAN PEDRO, CA PERMIT APPL. NO.: | ENGINEER OF LICENSED ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. THE DEPARTMENT OF BUILDING AND SAFETY (LADBS) RECOMMENDS THE USE OF THE | | SOCIETY AT | ELEC | ELECTRICAL | LLBB | LONG LEG BACK-BACK | SEP | SEPARATION |
| Description of Work: PPHQ PERMIETER ENHANCEMENT | ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN WHO ARE | • | AI | ELEC ELEV or | ELEVATION | | LONG LEG HORIZONTAL | | CH SCHEDULE |
| Owner: PORT OF LOS ANGELES Architect: Engineer: B. MATSUMOTO | INDEPENDENT OF THE CONTRACTOR. | α | AND | ELEVOI | ELEVATION | LLH | LONG LEG HORIZONTAL | SCHED/SC | CH SCHEDULE |
| | 3. THE STRUCTURAL OBSERVER SHALL PROVIDE EVIDENCE OF EMPLOYMENT BY THE | BAL | BALANCE | ELEV | ELEVATOR | LLV | LONG LEG VERTICAL | SIM | SIMILAR |
| STRUCTURAL OBSERVATION (only checked items are required) | OWNER OR THE OWNER'S REPRESENTATIVE. A LETTER FROM THE OWNER, THE OWNER'S REPRESENTATIVE, OR A COPY OF THE AGREEMENT FOR SERVICES SHALL BE SENT TO | BF | BRACE FRAME | EMBED | EMBEDMENT | LONG | LONGITUDINAL | SHT | SHEET |
| Firm or Individual to be responsible for the Structural Observation: | THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT. | BLDG | BUILDING | EQ | EQUAL | LT WT | LIGHT WEIGHT | SHTG | SHEATHING |
| Name: BRIELLA MATSUMOTO Phone: (310) 732-3629 Calif. Registration: C92612 | 4. THE OWNER OR OWNER'S REPRESENTATIVE SHALL COORDINATE AND CALL FOR A | BLK | BLOCK | EQUIP | EQUIPMENT | LVL | LEVEL (FLOOR) | SMS | SHEET METAL S |
| NO FOUNDATION WALL FRAME DIAPHRAGM | MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL | BLKG | BLOCKING | ES | EACH SIDE | MAX | MAXIMUM | SOG | SLAB ON GRAD |
| □ Footing, Stem Walls, Piers □ Concrete ☑ Steel Moment Frame □ Concrete | DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE | BEL | BELOW | ETC | ETCETERA | MB | MACHINE BOLT | SPC'G | SPACING |
| □ Mat Foundation □ Masonry ☑ Steel Braced Frame □ Steel Deck | MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND | BM | BEAM | EW | EACH WAY | MECH | MECHANICAL | SPECS | SPECIFICATION |
| □ Caisson, Piles, Grade Beams □ Wood □ Concrete Moment Frame □ Wood | LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE | B or BOT | воттом | EXIST(E) | EXISTING | MEZZ | MEZZANINE | SP | SPACE(S) |
| □ Stepp g/Retain g Foundation, □ Others: □ Masonry Wall Frame □ Others: | FIRST OBSERVATION REPORT SUBMITTED TO THE BUILDING INSPECTOR. | BRG | BEARING | EXP | EXPANSION | MF | MOMENT FRAME | SQ | SQUARE |
| Hillside Special Anchors | 5. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE | BTWN | BETWEEN | EXT | EXTERIOR | MFR | MANUFACTURER | SSC | SINGLE SHEAR |
| Others: Others: | PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT | BU | BUILT-UP | | | MIN | MINIMUM | SS | STAINLESS ST |
| DECLARATION BY OWNER | SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT THE MINIMUM, THE LISTED SIGNIFICANT CONSTRUCTION STAGES ON THE FOLLOWING STRUCTURAL | BUB | BACK-UP BAR | FIN | FINISH(ED) | MISC | MISCELLANEOUS | STD | STANDARD |
| I, the Owner of the project, declare that the above listed firm or individual is hired by me to be the Structural Observer. | OBSERVATION/SIGNIFICANT CONSTRUCTION STAGES TABLE REQUIRE A SITE VISIT AND | CAMB(C) | | FIN | FLOOR | MTL | MISCELLANEOUS | STIFF | STIFFENER |
| | AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER. | | CANTILEVER | FLR | FOUNDATION | MS | MIDDLE STRIP | STIFF | STEEL |
| | 6. THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT OF THE STRUCTURAL | | | | | | | | |
| Signature Date | OBSERVATION REPORT FROM IN/FORM. 08 (PART 1) FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED. THE ORIGINAL OF THE STRUCTURAL OBSERVATION REPORT | CG | CENTER OF GRAVITY | FLG | FLANGE | (N) | NEW | STRUC | STRUCTURAL |
| DECLARATION BY ARCHITECT OR ENGINEER OF RECORD (required if the Structural Observer is different from the Architect or Engineer of Record) | SHALL BE SENT TO THE BUILDING INSPECTOR'S OFFICE AND SHALL BE SIGNED AND | CIP | CAST IN PLACE | FOB | FACE OF BLOCK OR BRICK | NIC | NOT IN CONTRACT | SUPT | SUPPORT |
| I, the Architect or Engineer of record for the project, declare that the above listed firm or individual is designated by me to be responsible for the Structural Observation. | SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER. ONE COPY OF THE OBSERVATION REPORT SHALL BE ATTACHED TO THE APPROVED PLANS. THE COPY | CRSI | CONCRETE REINFORCING | FOC | FACE OF CONCRETE | NO (#) | NUMBER | SYMM | SYMMETRICAL |
| | ATTACHED TO THE PLANS SHALL BE SIGNED AND SEALED (WET STAMP) BY THE | CP | STEEL INSTITUTE COMPLETE PENETRATION | FOS | FACE OF STUDS | NS | NEAR SIDE | Т&В | TOP AND BOTT |
| Signature License No. Date | RESPONSIBLE STRUCTURAL OBSERVER OR THEIR DESIGNEE. COPIES OF THE REPORT SHALL ALSO BE GIVEN TO THE OWNER, CONTRACTOR, AND DEPUTY INSPECTOR. ANY | | | | | | | | |
| IN/Form.08 (Part 2) (Rev. 1/1/2007) www.ladbs.org | DEFICIENCY NOTED ON THE OBSERVATION REPORT WILL BECOME THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD TO VERIFY ITS COMPLETION BY HIM (HER), | CL(R) | CENTER LINE | FMG | FRAMING | NTS | NOT TO SCALE | TEMP | TEMPORARY |
| | OR BY A REGISTERED DEPUTY INSPECTOR AT THE DISCRETION OF THE STRUCTURAL $$ | CLG | CEILING | FS | FAR SIDE | NORM W | T NORMAL WEIGHT | ТНК | THICK(NESS) |
| | OBSERVER. | CLR | CLEAR | FT | FOOT | OC | ON CENTER (NOT NECESSARY) | THRD | THREAD |
| RUCTURAL OBSERVATIONS: | 7. A FINAL OBSERVATION REPORT AND THAT OF THE REGISTERED DEPUTY INSPECTOR | CMU | CONCRETE MASONRY | FTG | FOOTING | OD | OUTSIDE DIAMETER | THRU | THROUGH |
| STRUCTURAL OBSERVATIONS BY A CALIFORNIA LICENSED PROFESSIONAL | MUST BE SUBMITTED WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND STRUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED | | UNIT | FG | FINISH GRADE | OF | OUTSIDE FACE | TP | TOP OF PARAF |
| ENGINEER ARE REQUIRED FOR THE INITIAL AND FINAL STAGES OF CONSTRUCTION ON THE FOLLOWING STRUCTURES: | PLANS AND SPECIFICATIONS. THE DEPARTMENT OF BUILDING AND SAFETY (LADBS) WILL | COL | COLUMN | GA | GAGE | ОН | OPPOSITE HAND | TRANS | TRANSVERSE |
| | NOT ACCEPT THE STRUCTURAL WORK WITHOUT THIS FINAL OBSERVATION REPORT AND THAT OF THE REGISTERED DEPUTY INSPECTOR (WHEN PROVIDED) AND THE CORRECTION | | CONCRETE | GALV | GALVANIZED | OMF | | TOC | |
| A REPORT PREPARED AND SIGNED BY THE OBSERVING ENGINEER SHALL BE FILED AT THE JOBSITE AND WITH THE CITY OF LOS ANGELES DEPARTMENT OF BUILDING | OF SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING INSPECTION. | | | GALV | | | | | |
| AND SAFETY. | 8. THE STRUCTURAL OBSERVER SHALL PROVIDE THE ORIGINAL STAMPED AND SIGNED | CONN | CONNECTION | GB | GRADE BEAM | 0-0 | OUT TO OUT | IUS | TOP OF STEEL |
| REQUIRED OBSERVATIONS | STRUCTURAL OBSERVATION REPORT TO THE CITY OF LOS ANGELES DEPARTMENT OF | CONT | CONTINUOUS | GL | GRID LINE | OPNG | OPENING | TSG | TAPERED STEE |
| STRUCTURE FOUNDATION WALL FRAME DIAPHRAGM | BUILDING AND SAFETY BUILDING INSPECTOR. | CS | COLUMN STRIP | GR | GRADE | PARA | PARALLEL | TOW | TOP OF WALL |
| | 9. WHEN THE OWNER ELECTS TO CHANGE THE STRUCTURAL OBSERVER OF RECORD, THE | CRC | COLD ROLLED CHANNEL | HCA | HEADED CONCRETE ANCHOR | P/C | PRECAST | TYP | TYPICAL |
| ITEM NUMBERS ITEM NUMBERS ITEM NUMBERS ITEM NUMBERS | OWNER SHALL: | CTR | CENTER(ED) | HD | HOLD DOWN | PERP | PERPENDICULAR | UNO | UNLESS NOTE |
| 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 | A. NOTIFY THE BUILDING INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION BY | CTRSK | COUNTERSINK | HDR | HEADER | PJP | PARTIAL JOINT PENETRATION | VERT | VERTICAL |
| FRAME Image: Second s | SUBMITTING COMPLETED "STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER" FORM IN/FORM. 08 (PART 2) | C-C | CENTER TO CENTER | HGR | HANGER | PL (IP) | PLATE | \\\/ | WITH |
| | | | | | | () | | | |
| | B. CALL AN ADDITIONAL PRECONSTRUCTION MEETING, AND | DRL | DOUBLE | HORIZ | HORIZONTAL | PSF | POUNDS PER SQUARE FOOT | WCRSI | WESTERN CON REINFORCING S |
| * SEE NOTES BELOW | C. FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF ALL | | | | | | | | INSTITUTE |
| | PREVIOUS OBSERVATION REPORTS. | DET | DETAIL | HSB | HIGH STRENGTH BOLT | PSI | POUNDS PER INCH | WP | WORK POINT |
| TES: | THE REPLACEMENT STRUCTURAL OBSERVER SHALL APPROVE THE CORRECTION OF | DIA(IQ) | DIAMETER | HS | HIGH STRENGTH | P/T | | WPJ | WEAKENED PL |
| A: FENCE: STEEL FENCES AT THREE LOCATIONS | THE ORIGINAL OBSERVED DEFICIENCIES UNLESS OTHERWISE APPROVED BY PLAN CHECK SUPERVISION. THE POLICY OF THE DEPARTMENT SHALL BE TO CORRECT | DIA | DIAGONAL | нт | HEIGHT | RAD (R) | TENSIONED(PRESTRESSED) RADIUS | 1//9 | WELDED STUD |
| 2. ITEM NUMBERS INDICATE STRUCTURAL OBSERVATION REQUIREMENTS | AND PROPERTY NOTED DEFICIENCIES WITHOUT CONSIDERATION OF THEIR | | | | | | | | |
| PER SCHEDULE NOTED ABOVE | SOURCE. | DIM | DIMENSION | טו | INSIDE DIAMETER | RBS | REDUCED BEAM SECTION | | WEIGHT |
| | D. THE ENGINEER OR ARCHITECT OF RECORD SHALL DEVELOP ALL CHANGES | DN | DOWN | IF | INSIDE FACE | | | WWF | WELDED WIRE |
| | RELATING TO THE STRUCTURAL SYSTEMS. THE BUILDING DEPARTMENT SHALL REVIEW AND APPROVE ALL CHANGES TO THE APPROVED PLANS AND | DO | DITTO (REPEAT) | IMF | INTERMEDIATE MOMENT | | | | |
| | SPECIFICATIONS. | DP | DEEP | - | FRAME | | | | |
| | | | | IN | INCHES | | | | |
| | | | | | <u> </u> | | | | |
| | DATE DRAWN REVISIONS - CHK'D APP'D | | SCALE: AS SHOWN | 0 | CHIEF OF DESIGN | POF | RT POLICE HEADQUARTERS P | | |
| E DRAWN REVISIONS - CHK'D APP'D NO. | | | URAWN: B.MAISUMOI | 0 | | | NOTES AND AB | REVIAT | FIONS |
| TE DRAWN REVISIONS - CHK'D APP'D NO. | | | CHECKED: H. CISNEROS | | | | | | |
| E DRAWN REVISIONS - CHK'D APP'D NO. | | | CHECKED: H. CISNEROS DESIGNED: B. MATSUMOT | - | ASSISTANT CHIEF HARBOR ENGINEER | | THE PORT OF LOS ANGELES | | DRAWING NUMB |
| ATE DRAWN REVISIONS - APP'D NO. | | | DESIGNED: B. MATSUMOT | - | | | |)N | DRAWING NUMB |

| | | | STRUCTURAL | | EVIATIONS | | |
|---------|--|---------------|---------------------------------|-----------|---------------------------|----------------|---------------------------------------|
| AB | ANCHOR BOLT | DWG | DRAWING | | INFORMATION | REF | REFERENCE |
| ACI | AMERICAN CONCRETE | DWL | DOWELS | INT | INTERIOR | REQ'D | REQUIRED |
| ADDL | ADDITIONAL | | | IP | INDICATOR PILE | REINF | REINFORCEMENT(ING) |
| 4LT | ALTERNATE | EA | EACH | JST | JOIST | RJ | ROOF JOIST |
| ARCH | ARCHITECT(URAL) | EBF | ECCENTRIC BRACE FRAME | JT | JOINT | RJ | ROOF JOIST |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | EF | EACH FACE | KSI | KIP PER SQUARE INCH | SC | SLIP CRITICAL |
| AWS | AMERICAN WELDING SOCIETY | EJ | EXPANSION JOINT | LBS | POUNDS | SECTS | SECTIONS |
| 0 | AT | ELEC | ELECTRICAL | LLBB | LONG LEG BACK-BACK | SEP | SEPARATION |
| & | AND | ELEV or EL | ELEVATION | LLH | LONG LEG HORIZONTAL | SCHED/SCH | SCHEDULE |
| BAL | BALANCE | ELEV | ELEVATOR | LLV | LONG LEG VERTICAL | SIM | SIMILAR |
| 3F | BRACE FRAME | EMBED | EMBEDMENT | LONG | LONGITUDINAL | SHT | SHEET |
| | BUILDING | EQ | EQUAL | LT WT | LIGHT WEIGHT | SHTG | SHEATHING |
| BLK | BLOCK | EQUIP | EQUIPMENT | LVL | | SMS | SHEET METAL SCREWS |
| | BLOCKING BELOW | ES ETC | EACH SIDE ETCETERA | MAX MB | MAXIMUM MACHINE BOLT | SOG SPC'G | SLAB ON GRADE |
| | BEAM | EIC | EACH WAY | MECH | MECHANICAL | SPC G SPECS | SPECIFICATIONS |
| | воттом | EXIST(E) | EXISTING | MECH | MEZZANINE | SP | SPACE(S) |
| | BEARING | EXP | EXPANSION | MF | MOMENT FRAME | SQ | SQUARE |
| BTWN | BETWEEN | EXT | EXTERIOR | MFR | MANUFACTURER | SSC | SINGLE SHEAR CONNECTON |
| BU | BUILT-UP | | | MIN | MINIMUM | SS | STAINLESS STEEL |
| BUB | BACK-UP BAR | FIN | FINISH(ED) | MISC | MISCELLANEOUS | STD | STANDARD |
| . , | CAMBER(ED) | FLR | FLOOR | MTL | METAL | STIFF | STIFFENER |
| CANT | CANTILEVER | FDN | FOUNDATION | MS | MIDDLE STRIP | STL | STEEL |
| CG | CENTER OF GRAVITY | FLG | FLANGE | (N) | NEW | STRUC | STRUCTURAL |
| CIP | CAST IN PLACE | FOB | FACE OF BLOCK OR BRICK | NIC | NOT IN CONTRACT | SUPT | SUPPORT |
| CRSI | CONCRETE REINFORCING STEEL INSTITUTE | FOC | FACE OF CONCRETE | NO (#) | NUMBER | SYMM | SYMMETRICAL |
| CP | COMPLETE PENETRATION | FOS | FACE OF STUDS | NS | NEAR SIDE | Т&В | TOP AND BOTTOM |
| CL(R) | CENTER LINE | FMG | FRAMING | NTS | NOT TO SCALE | TEMP | TEMPORARY |
| CLG | CEILING | FS | FAR SIDE | NORM WT | NORMAL WEIGHT | ТНК | THICK(NESS) |
| CLR | CLEAR | FT | FOOT | OC | ON CENTER (NOT NECESSARY) | THRD | THREAD |
| CMU | CONCRETE MASONRY | FTG | FOOTING | OD | OUTSIDE DIAMETER | THRU | THROUGH |
| | UNIT | FG | FINISH GRADE | OF | OUTSIDE FACE | TP | TOP OF PARAPET |
| COL | COLUMN | GA | GAGE | ОН | OPPOSITE HAND | TRANS | TRANSVERSE |
| CONC | CONCRETE | GALV | GALVANIZED | OMF | ORDINARY MOMENT FRAME | TOC | TOP OF CONCRETE |
| CONN | CONNECTION | GB | GRADE BEAM | 0-0 | OUT TO OUT | TOS | TOP OF STEEL |
| CONT | CONTINUOUS | GL | GRID LINE | OPNG | OPENING | TSG | TAPERED STEEL GIRDER |
| CS | COLUMN STRIP | GR | GRADE | PARA | PARALLEL | TOW | TOP OF WALL |
| CRC | COLD ROLLED CHANNEL | HCA | HEADED CONCRETE ANCHOR | P/C | PRECAST | TYP | TYPICAL |
| CTR | CENTER(ED) | HD | HOLD DOWN | PERP | PERPENDICULAR | UNO | UNLESS NOTED OTHERWISE |
| CTRSK | COUNTERSINK | HDR | HEADER | PJP | PARTIAL JOINT PENETRATION | VERT | VERTICAL |
| C-C | CENTER TO CENTER | HGR | HANGER | PL (IP) | PLATE | W/ | WITH |
| OBL | DOUBLE | HORIZ | HORIZONTAL | PSF | POUNDS PER SQUARE FOOT | WCRSI | WESTERN CONCRETE REINFORCING STEEL |
| DET | DETAIL | HSB | HIGH STRENGTH BOLT | PSI | POUNDS PER INCH | WP | INSTITUTE WORK POINT |
| DIA(IQ) | DIAMETER | HS | HIGH STRENGTH | P/T | POST | WPJ | WEAKENED PLANE JOINT |
| | | | | | TENSIONED(PRESTRESSED) | | |
| | DIAGONAL | HT | | RAD (R) | | WS | WELDED STUDS |
| | DIMENSION | ID | | RBS | REDUCED BEAM SECTION | WT | |
| | | | | | | | WELDED WIRE FABRIC |
| 00 | | IMF | | | | | |
|)P | DEEP | IN | FRAME INCHES | | | | |
| | SCALE: AS SHOWN | '' '' | | PORT | POLICE HEADQUARTERS P | | |
| | DRAWN: B. MATSUMOTO | | for C Ken | 1 0111 | NOTES AND AB | | |
| | CHECKED: H. CISNEROS DESIGNED: B. MATSUMOTO |) | ASSISTANT CHIEF HARBOR ENGINEER | • | THE PORT OF LOS ANGELES | | DRAWING NUMBER SHEET NUMBER |
| | ENGINEER ARCH | | | | | | |







| POST SCHEDULE | | | |
|---------------|------------|-----------------|--|
| SIZE | MAX HT. | SPACING O.C. | |
| HSS | 5' - 0" | 8' - 0" | |
| 3x3x1/4 | 8' - 0" | 5' - 0" | |

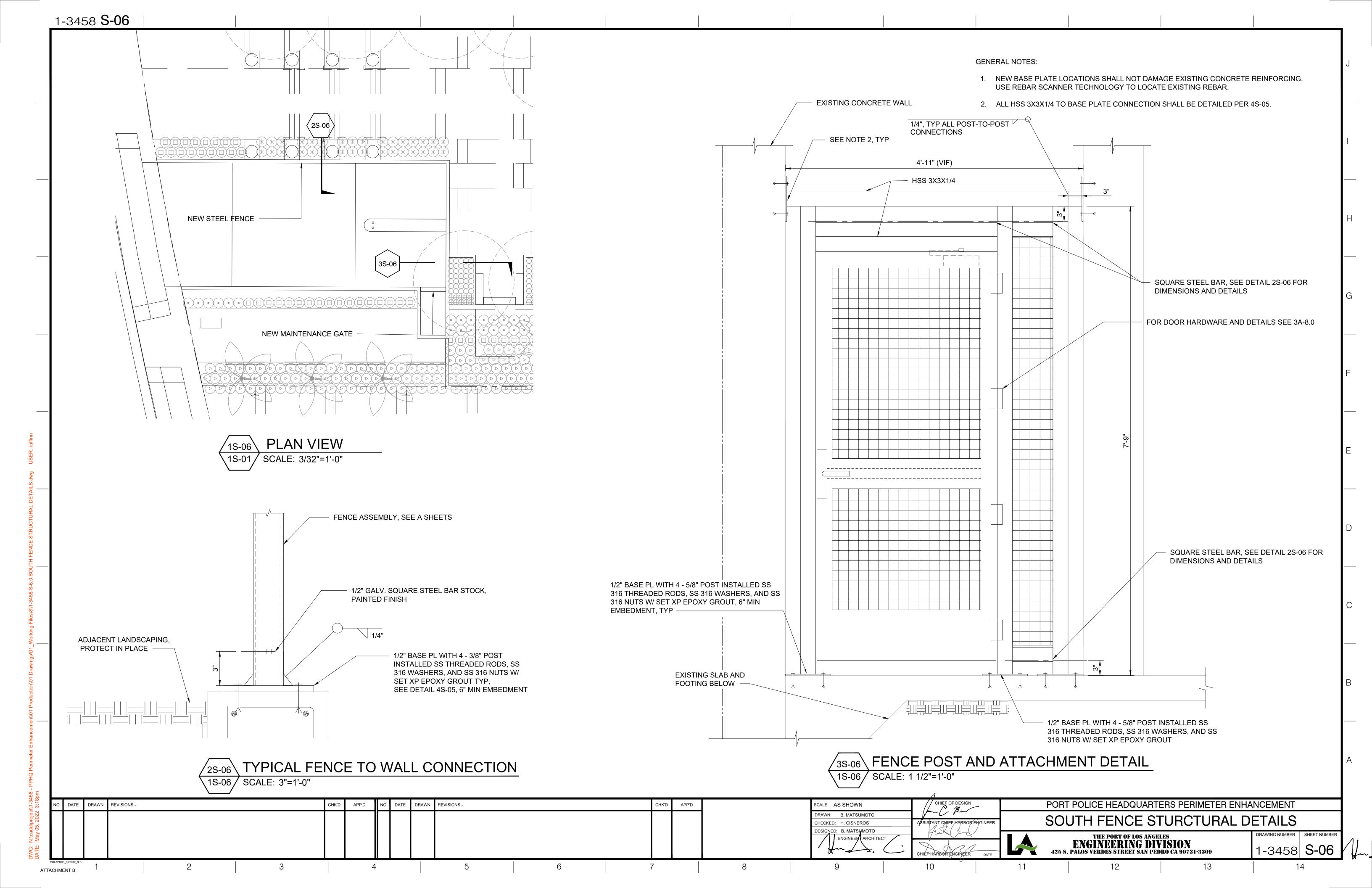
| 4S- 3S-0 | | , | LATE DETAIL E: 3"=1'-0" | - | Λ |
|-------------|-------|-------|----------------------------|---|---------------------------------|
| | CHK'D | APP'D | | SCALE: AS SHOWN | CHIEF OF DESIGN |
| | | | | DRAWN: B. MATSUMOTO CHECKED: H. CISNEROS DESIGNED: B. MATSUMOTO ENGINEER ARCHITECT | ASSISTANT CHIEF HARBOR ENGINEER |
| 6 | 7 | | 8 | 9 | 10 |

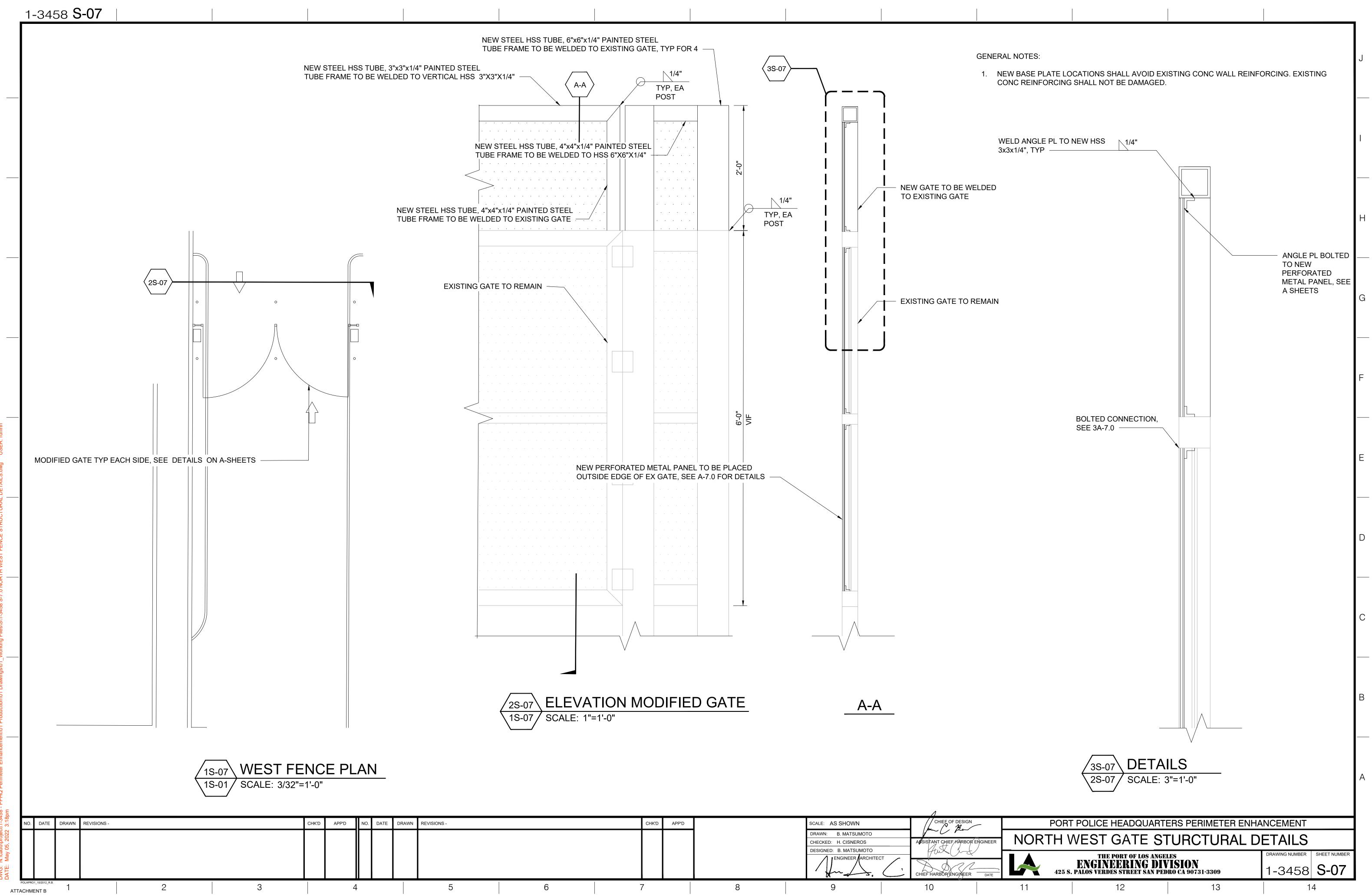
1. NEW BASE PLATE LOCATIONS SHALL AVOID EXISTING CONC WALL REINFORCING. EXISTING CONC REINFORCING SHALL NOT BE DAMAGED.

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PORT POLICE HEADQUARTERS PERIMETER ENHANCEMENT **ELEVATION A** THE PORT OF LOS ANGELES ENGINEERING DIVISION 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309 DRAWING NUMBER SHEET NUMBER 1-3458 **S-05** 13 11 12 14





| | | | | | / | |
|-------|-------|-------|---|------------------------|---------------------------------|---|
| | CHK'D | APP'D | | SCALE: AS SHOWN | CHIEF OF DESIGN | |
| | | | | DRAWN: B. MATSUMOTO | | Ì |
| | | | | CHECKED: H. CISNEROS | ASSISTANT CHIEF HARBOR ENGINEER | |
| | | | | DESIGNED: B. MATSUMOTO | Aux (ind) | |
| | | | | INGINEER ARCHITECT | CHIEF HARBOR/ENGINEER DATE | |
| 6 | 7 | | 8 | 9 | 10 | |
| 1 | | | | 1 | l l | |

Bidder Certification

This form must be submitted with your bid or proposal to the City department that is awarding the contract noted below. If you have questions about this form, please contact the Ethics Commission at (213) 978-1960.

| Original Filing | Amendment: | Date of Signed Original | Date of Last Amendment |
|-----------------|------------|-------------------------|------------------------|
| | | | |

| Reference Number (Bid, Contract, or BAVN) | Awarding Authority (Department awarding the contract) |
|---|---|
| | |
| Bidder Name | |
| | |
| Address | |
| | |
| Email Address | Phone Number |
| | |
| | |

Certification

I certify the following on my own behalf or on behalf of the entity named above, which I am authorized to represent:

A. I am applying for one of the following types of contracts with the City of Los Angeles:

- 1. A goods or services contract with a value of more than \$25,000 and a term of at least three months;
- 2. A construction contract with any value and duration;
- 3. A financial assistance contract, as defined in Los Angeles Administrative Code § 10.40.1(h), with a value of at least \$100,000 and a term of any duration; or
- 4. A public lease or license, as defined in Los Angeles Administrative Code § 10.40.1(i), with any value and duration.
- B. I acknowledge and agree to comply with the disclosure requirements and prohibitions established in the Los Angeles Municipal Lobbying Ordinance if I qualify as a lobbying entity under Los Angeles Municipal Code § 48.02.

I certify under penalty of perjury under the laws of the City of Los Angeles and the state of California that the information in this form is true and complete.

| Name | Signature |
|-------|-----------|
| | |
| Title | Date |

| FORM | Prohibited Contributors |
|------|--------------------------------|
| 55 | (Bidders) |

This form must be completed in its entirety and submitted with your bid or proposal to the City department that is awarding the contract. Failure to submit a completed form may affect your bid or proposal. If you have questions about this form, please contact the Ethics Commission at (213) 978-1960.

| Original Filing Amendment: Date of Signed Origina | al Date of Last Amendment |
|--|--|
| Reference Number (Bid, Contract, or BAVN): | Date Bid Submitted: |
| Contract Description (Title of the RFP or City contract solicitation | and description of the services to be provided): |
| | |
| Awarding Authority (Department awarding the contract): | |
| Bidder Name: | |
| Bidder Address: | |
| Bidder Email Address: | Bidder Phone Number: |

Schedule Summary

| Please complete all three of the following: | |
|---|--|
|---|--|

| SCHEDULE A – Bidder's Principals (check one) The bidder has one or more PRINCIPALS, as defined in LAMC § 49.7.35(A)(6). At least one principal is required for entities. (If you check "Yes", Schedule A is required.) | Yes | No | |
|--|-----|----|--|
| 2. SCHEDULE B – Subcontractors and Their Principals (check one) The bidder has one or more SUBCONTRACTORS on this bid or proposal with subcontracts worth \$100,000 or more. (If you check "Yes", Schedule B is required.) | Yes | No | |
| 3. TOTAL NUMBER OF PAGES SUBMITTED (including this cover page): | | | |

Certification

I certify the following under penalty of perjury under the laws of the City of Los Angeles and the state of California: A) I understand, will comply with, and have notified my principals and subcontractors of the requirements and restrictions in Los Angeles City Charter § 470(c)(12) and any related ordinances; B) I understand that I must amend this form within ten business days if any information changes; C) I am the bidder named above or I am authorized to represent the bidder named above, and my name appears below; and D) The information provided in this form is true and complete to the best of my knowledge and belief.

| Name S | Signature |
|-------------|-----------|
| Title D | Date |

Schedule A - Bidder's Principals

Please identify the names and titles of all the bidder's principals (attach additional sheets if necessary). Principals include a bidder's board chair, president, chief executive officer, chief operating officer, and individuals who serve in the functional equivalent of one or more of those positions. Principals also include individuals who hold an ownership interest in the bidder of at least 20 percent and employees of the bidder who are authorized by the bid or proposal to represent the bidder before the City.

| Name:Address: | Title: |
|-------------------|--------|
| Name:Address: | |
| Name: | |
| Name: Address: | Title: |
| Name:Address: | |
| Name: Address: | |
| Name: Address: | Title: |
| Name: Address: | Title: |
| Name: Address: | |

Check this box if additional Schedule A pages are attached.

Schedule B - Subcontractors and Their Principals

Please identify all subcontractors whose subcontracts are worth \$100,000 or more. Separate Schedule B pages are required for each subcontractor who meets the threshold.

| ubcontractor's Name | |
|------------------------|--|
| | |
| ubcontractor's Address | |
| Jucontractor's Address | |
| | |
| | |

Please check one of the following options:

| This subcontractor has one or more principals. | Yes* | \Box | No |
|--|------|--------|----|
|--|------|--------|----|

* Each principal's name and title must be identified below. Attach additional sheets if necessary. Principals include a subcontractor's board chair, president, chief executive officer, chief operating officer, and individuals who serve in the functional equivalent of one or more of those positions. Principals also include individuals who hold an ownership interest in the subcontractor of at least 20 percent and employees of the subcontractor who are authorized by the bid or proposal to represent the subcontractor before the City.

| Name:Address: | |
|-------------------|--|
| Name: Address: | |
| Name: Address: | |
| Name: Address: | |
| Name: Address: | |
| Name:Address: | |

Check this box if additional Schedule B pages are attached.

LOCAL BUSINESS PREFERENCE PROGRAM

The Harbor Department is committed to maximizing opportunities for local and regional businesses, as well as encouraging local and regional businesses to locate and operate within the Southern California region. It is the policy of the Harbor Department to support an increase in local and regional jobs. The Harbor Department's Local Business Preference Program (LBPP) aims to benefit the Southern California region by increasing jobs and expenditures within the local and regional private sector.

Vendors who qualify as a Local Business Enterprise (LBE) will receive an 8% preference on any bid for goods, materials, supplies, and related services valued in excess of \$150,000. The preference will be applied by calculating the bidder's price at 8% less than the quoted price. The Harbor Department will use the applied preference for bid tabulation only. The actual amount paid to the lowest bidder will be the price quoted by the lowest bidder meeting specifications.

The Harbor Department defines a LBE as:

- (a) A business headquartered within Los Angeles, Orange, Riverside, San Bernardino, or Ventura Counties. Headquartered shall mean that the business physically conducts and manages all of its operations from a location in the above-named counties; or
- (b) A business that has at least 50 full-time employees, or 25 full-time employees for specialty marine contracting firms, working in Los Angeles, Orange, Riverside, San Bernardino, or Ventura Counties.

In order for Harbor Department staff to determine the appropriate LBE preference, Vendor shall complete, sign, notarize and submit the attached Affidavit. The Affidavit will signify the LBE status of the Vendor.

In the event of Vendor's noncompliance during the performance of the Contract, Vendor shall be considered in material breach of contract. In addition to any other remedy available to City under this Contract or by operation of law, the City may withhold invoice payments to Vendor until noncompliance is corrected, and assess the costs of City's audit of books and records of Vendor. In the event the Vendor falsifies or misrepresents information contained in any form or other willful noncompliance as determined by City, City may disqualify the Vendor from participation in City contracts for a period of up to five (5) years.

AFFIDAVIT OF COMPANY STATUS

"The undersigned declares under penalty of perjury pursuant to the laws of the State of California that the following information is true and correct and includes all material information necessary to identify and explain the operations of

| Name | of F | Firm |
|------|------|------|
|------|------|------|

as well as the ownership and location thereof. Further, the undersigned agrees to provide complete and accurate information regarding ownership in the named firm, any proposed changes of the ownership and to permit the audit and examination of firm ownership documents in association with this contract."

Local Business Preference Program: Please indicate the Local Business Enterprise status of your company. Only <u>one</u> box <u>must</u> be checked:

- A Local Business Enterprise (LBE) is: (a) a business headquartered within Los Angeles, Orange, Riverside, San Bernardino, or Ventura Counties; or (b) a business that has at least 50 full-time employees, or 25 full-time employees for specialty marine contracting firms, working in Los Angeles, Orange, Riverside, San Bernardino, or Ventura Counties. "Headquartered" shall mean that the business physically conducts and manages all of its operations from a location in the above-named counties.
- A Non-LBE is any business that does not meet the definition of a LBE.

| Signature: | | | |
|------------|--|--|--|

Title: _____

Printed Name:_____

Date Signed:_____

| ACKNOWLEDGMENT | | |
|--|--|--|
| certificate verified who signed the | or other officer completing this es only the identity of the individual document to which this certificate is ot the truthfulness, accuracy, or ocument. | |
| State of California County of |) | |
| On | before me,(i | nsert name and title of the officer) |
| who proved to me subscribed to the his/her/their autho | within instrument and acknowledge rized capacity(ies), and that by his/ | to be the person(s) whose name(s) is/are d to me that he/she/they executed the same in her/their signature(s) on the instrument the on(s) acted, executed the instrument. |
| l certify under PE paragraph is true | | vs of the State of California that the foregoing |
| WITNESS my ha | nd and official seal. | |
| Signature | (| Seal) |