

CITY OF PASO ROBLES



COMMUNICATIONS FACILITY LICENSE AGREEMENT

Licensee Site Name: Paso Robles Airport
Licensee MDG# 5000347016
82477.03000\42847053.3

CITY OF PASO ROBLES
COMMUNICATIONS FACILITY LICENSE AGREEMENT
(VERIZON WIRELESS – AIRPORT BEACON LIGHT)

THIS LICENSE AGREEMENT (“License”) is entered into and made effective as of the latter signature date hereof, (“Effective Date”) by and between the City of El Paso de Robles, a municipal corporation, with its principal offices located at 1000 Spring Street, Paso Robles, California 93446 (“City”), and AirTouch Cellular Inc., a California corporation, d/b/a Verizon Wireless with its principal offices at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920 (“Licensee”). City and Licensee are sometimes referred to in this License Agreement individually as a “party” or jointly as “parties.” The term “License” used in herein means this License Agreement and any amendments to this License Agreement as may be executed between the parties in accordance with the terms herein.

In consideration of the mutual covenants contained herein and intending to be legally bound hereby, the parties hereto agree as follows:

LICENSE

Section 1. Non-exclusive License. Subject to the terms and conditions hereinafter set forth, City grants Licensee an exclusive license to install, operate and maintain its Communications Facility, as particularly described in **Exhibit B** attached hereto, on a portion or portions of that certain real property owned by the City located at 4960 Wing Way, Paso Robles, San Luis Obispo County, California 93446 and as legally described in **Exhibit A** attached hereto (referred herein as either the “Property” or the “Airport”) as designated and approved by City. **Exhibit B** depicts the specific dimensions, appearance, equipment and approved location of the Communications Facility on the Property to be used by Licensee under this License (“Licensed Area”). The Licensed Area includes (i) four hundred (400) square feet of designated surface ground space (“Ground Space”) which Ground Space shall include an eighty-foot ten-inch (80’-10”) monopole beacon light facility and (ii) non-exclusive utility routes (“Utility Routes”), all as depicted in **Exhibit B**. Notwithstanding City’s approval of Licensee’s use of the Licensed Area or the Property, nothing in this License may be deemed to grant, convey, create, or vest in Licensee a real property interest in land, including any fee, leasehold interest, or easement. Licensee’s License as described herein shall not preclude City, from time to time, and at no additional cost to City, from using the Property for any purpose that is not a telecommunications purpose or preclude City from using the Property for any non-commercial, governmental use telecommunications purpose, subject to the advance written consent of Licensee, which consent shall not be unreasonably, withheld, conditioned, or delayed. The term “Communications Facility” as used in this License shall include all antennas, facilities, structures, foundations, pads, cables, conduits and equipment and utilities that Licensee erects, installs and/or uses on or under the Property, as authorized and listed in Exhibit B, as may be modified from time to time in accordance with this License.

Section 1.1 All parties acknowledge that City, in executing this License, is acting only in its proprietary capacity as the owner of the Property and Licensed Area, and not in any regulatory fashion. Licensee shall not consider this License as approval of any applicable permits, licenses or other governmental approvals required for the construction or operation needed for the use described herein.

Section 1.2 Acceptance of Licensed Area. Licensee hereby accepts the Licensed Area in the condition existing as of the date hereof. Licensee hereby agrees that the Licensed Area are in a good and tenantable condition and acknowledges that it has inspected the Licensed Area and common areas of the Airport to its satisfaction and acknowledges that City is not obligated to make any repairs or alterations to the Licensed Area or common areas.

Section 1.3 Reservations to City. Licensee further accepts the Licensed Area subject to any and all existing easements and encumbrances. City reserves the right without obligation to install, lay, construct, maintain and repair utilities and appurtenances necessary or convenient in connection therewith in, over, upon, through, across, under and along the Utility Routes or any part thereof, and to enter the Licensed Area for any and all such purposes, with no less than thirty (30) days prior written notice to Licensee, except in the event of an emergency, in which case City shall provide notice to Licensee as soon as reasonably possible after such emergency access. Licensee shall have the right to have a representative present during any such non-emergency City access within the Licensed Area. City also reserves the right to grant franchises, easements, rights of-way and permits in, over, upon, through, across, under and along any and all portions of the Utility Routes. No right reserved by City in this clause shall be so exercised as to interfere unreasonably with Licensee's operations hereunder, and the rights granted to third parties by reason of this clause shall contain provisions that the surface of the land shall be restored as nearly as practicable to its condition prior to the construction upon completion of any construction.

Section 1.4 Utilities. In conjunction with Licensee's or the utility service provider's right to install and maintain utility wires, poles, cables, conduits and pipes as provided in this Section 1 and in accordance with the laws of the state of California, Licensor grants the right for any utility services supplier to trim, cut down, and clear away or otherwise control any trees or brush within five feet (5') on each side of the centerline of any service supplier's underground utility facilities and sixteen feet (16') on each side of the centerline of any service supplier's overhead utility facilities. In addition, Licensor shall not, without the prior written consent of the utility services supplier, which shall not be unreasonably withheld, erect or construct any building or other structure or drill or operate any well under or within five feet (5') on each side of the centerline of any service supplier's underground utility facilities and sixteen feet (16') on each side of the centerline of any service supplier's overhead utility facilities.

Section 2. **Access License.** Licensee shall have the right of non-exclusive ingress and egress to the Licensed Area from the nearest non-aviation public right-of-way, seven (7) days a week,

twenty-four (24) hours a day, via foot or motor vehicle (but, after the completion of Licensee's initial construction of its facility, not including vehicles with more than two (2) axles/more than twenty (20) feet in length, and 19,500 lbs. gross vehicle weight) via the access area delineated as such in **Exhibit B**, in order to install, operate, and maintain the Communications Facility, subject to the limitations set forth below. Prior to accessing the Licensed Area, Licensee shall provide written notice to the Airport Manager by email to airport@prcity.com, and by phone at (805)-237-3877 or other designated phone number at least forty-eight (48) hours in advance, except in the event of a bona fide emergency affecting the health, safety, and welfare of the Property's occupants or the operational integrity of the Communications Facility, in which case Licensee shall provide notice to City as soon as reasonably possible after such emergency access. Licensee shall obtain any and all necessary access credentials or keys from the Airport Manager's, located at 4912 Wing Way, Paso Robles, CA 93446 or from the City Manager's designee, on a temporary basis, not to exceed Licensee's reasonable access requirements. In such event, Licensee or its designee shall provide proper identification prior to checking out any access credentials or keys. All access to the Licensed Area by Licensee shall be subject in each instance to all permits, ordinances, as well as any local, state, and federal laws ("Laws") in addition to this License. Further, when City's access to a site is established through an access easement over third party property to the Property ("Access Easement"), nothing herein shall be deemed to be a representation or warranty by City that its interest or other rights to use the Access Easement is sufficient to permit its use for Licensee's purposes, and Licensee shall be deemed to gain only those rights to use as are properly in City and as City may have the undisputed right and power to give Licensee. Licensee assumes the risk of any challenge, claim, litigation or damage, asserted in connection with Licensee's use of the Access Easement for ingress and egress to the Property and releases City from any and all responsibility, claim, damage, to the extent related to or in connection with Licensee's use of the Access Easement, except to the extent arising out of City's sole gross negligence or willful misconduct. If City's continued use of the Access Easement is challenged or threatened in any way by Licensee's use of the Access Easement, upon notice from City, Licensee shall cease ingress and egress to the Property until such time as the challenge or threat to City's continued use of the Access Easement is resolved which may require Licensee to obtain any necessary approvals, licenses or easements from the third-party property owner at its sole cost and expense. In the event of such dispute, the City will make a good faith effort to provide Licensee alternative access to the Licensed Area, to the extent the City has the authority to grant such rights.

Section 3. Permitted Use. Licensee may transmit and receive communication signals and install, operate and maintain the Communications Facility in the Licensed Area in accordance with the site plan and dimension sketch of the Communications Facility in **Exhibit B** hereto. Licensee may not install any other facilities or equipment of any kind that is not otherwise described and depicted in **Exhibit B** or otherwise intensify, expand, or alter its use of the Licensed Area or the Communications Facility without City's prior written consent, such consent shall not be unreasonably delayed, conditioned or withheld. Licensee acknowledges that the primary purpose

of the Property is to serve as a valuable asset to the community of Paso Robles and the City itself, and Licensee's use of the Property shall be subject to City's paramount rights ("Paramount Rights") to use the Property for any and all current and future uses necessary for City's municipal and airport needs. If City determines that Licensee is interfering with such use, City shall notify Licensee via telephone to Licensee's Network Management Center (at (800) 264-6620) and Licensee shall cease such interference within forty-eight (48) hours. If such interference cannot be corrected or powered down within forty-eight (48) hours after Licensee is advised of such interference, City may require that Licensee cease (or cause the cessation of) operation of the interfering equipment until such interference can be so corrected at which time the operation of such equipment may resume. If such Paramount Rights are reasonably expected to result in the long-term (more than five (5) consecutive days) cessation of Licensee's operations at the Property, City shall use its relocation rights set forth in Section 7 of this License or termination rights under Section 8 of this License.

Section 3.1 Any required permits or approvals for the Communication Facility, New Pole, and City Attachments shall be obtained by Licensee at Licensee's sole expense. Furthermore, it is understood and agreed that Licensee's ability to install the Communication Facility, New Pole, and City Attachments is contingent upon its obtaining, prior to construction of Communication Facility, New Pole, and City Attachments, all of the certificates, permits, authorizations, and other approvals that may be required by any federal, state, or local authorities, including but not limited to any permits, authorizations, and approvals required by the Federal Communications Commission, Federal Aviation Administration, California Air Resources Board and the applicable local air pollution control district (collectively, the "Governmental Approvals"; individually, a "Governmental Approval"). Licensee shall indemnify and save City harmless from and against any claims, penalties, losses, damages or expenses imposed by reason of Licensee's violation of any Law or the rules and regulations of governmental authorities having jurisdiction thereof. City shall bear no responsibility or liability under this License for Licensee's inability to make use of the Licensed Area for the Communication Facility, New Pole, and City Attachments due to a failure to obtain any required permit, authorization, or approval. Notwithstanding anything contained herein to the contrary, City hereby agrees to allow Licensee to install any radio frequency signage and/or barricades as are strictly necessary to ensure Licensee's compliance with Laws.

Section 4. License Term; Renewal Term. The initial term of this License shall be five (5) years ("Initial Term"), commencing on the date Licensee commences installation of the Communications Facility, New Pole, or City Attachments, or twelve (12) months following the Effective Date, whichever occurs first ("Commencement Date"). Licensee shall provide written notice to City memorializing the Commencement Date as soon as reasonably practicable thereafter. The Initial Term of this License shall expire at Midnight on the day before the fifth (5th) anniversary of the Commencement Date. Unless Licensee gives written notice of its intention not to extend the License to the City at least six (6) months prior to the end of the Initial Term or

Renewal Term, as applicable and then in effect, and provided Licensee is not then in default beyond any applicable notice and cure periods under this License, this License shall automatically be extended upon the expiration of the Initial Term, or Renewal Term, as applicable, for four (4) additional terms of five (5) years each (each a “Renewal Term”), subject to all terms and conditions of this License. The Initial Term and Renewal Term shall be collectively known as the “Term”.

Section 5. License Fee; Increases; Late Payments. Commencing on the first day of the month immediately following the Commencement Date, Licensee shall pay City on or before the fifth (5th) day of each calendar month in advance, Three Thousand One Hundred and Seventy-Five Dollars (\$3,175) (“License Fee”), at the address set forth above. In any partial month occurring after the Effective Date, the License Fee will be prorated. Each year on the anniversary of the Commencement Date during the Term, the License Fee shall automatically increase by an amount equal to three percent (3%) over the amount of the License Fee in effect immediately prior to such increase.

Section 5.1 The License Fee shall be payable without offset or deduction, except as otherwise permitted herein, by check sent to City's address specified below or to any other person or firm as City may, from time to time, designate in writing at least sixty (60) days in advance of any License Fee due date. If, at any time, Licensee fails to make timely payment and such non-payment continues for ten (10) days, interest shall accrue on the past due amount at the rate of ten percent (10%) per month or the maximum allowable by law, whichever is less, until the License Fee and all accumulated interest is paid in full. This right to collect interest is in addition to all rights of City to terminate this License for non-payment pursuant to Section 8 of this License.

Section 6. Holdover. If the Communications Facility or any part thereof is still on the Property, or Licensee is still conducting any activities or operations on the Property, or is otherwise using the Property without a written agreement with City after expiration of the License Term, or, if applicable, the Renewal Term, such possession or use shall be deemed a holdover use under the same terms and conditions of this License, except that the License Fee shall be one hundred twenty-five percent (125%) of the License Fee in effect at the expiration of the License Term or, if applicable, the Renewal Term, and shall be payable in advance in equal monthly installments (“Holdover License Fee”). The Holdover License Fee shall automatically escalate annually in the same manner described in Section 5. Nothing contained herein shall grant Licensee the right to holdover after the expiration of the License Term or, if applicable, the Renewal Term and notwithstanding the payment of license fees during the holdover period, City shall have the right to require Licensee to vacate the Property at any time upon thirty (30) days written notice.

Section 7. Relocation of Communication Facility. Licensee understands and agrees that from time to time during the Term, City may require Licensee to remove and/or relocate all or portions of the Communications Facility from the Licensed Area temporarily or permanently at

Licensee's expense in order for City to exercise its Paramount Rights at the Property, subject to the terms set forth below.

Section 7.1 Temporary Relocations. City shall endeavor to give Licensee at least one hundred eighty (180) days, but in no event less than ninety (90) days, prior written notice of the necessity to relocate the Communications Facility to another location on the Property (the "Temporary Location") for a temporary period, for the purpose of the City exercising its Paramount Rights, and will use good faith efforts to provide temporary space at the Property, or another mutually acceptable City location for such temporary relocation; provided Licensee is not in default under this License (after notice and the expiration of applicable cure periods pursuant to Section 8.5 herein). Licensee shall be solely responsible at its cost for relocating the Communications Facility and obtaining any necessary permits and otherwise complying with all laws, permits, and other rules and regulations of any public entity applicable in connection with the temporary relocation of its Communications Facility, provided that City shall reasonably cooperate with Licensee in its efforts to obtain such permits. Notwithstanding any relocation, the License shall continue without abatement of the License Fee unless City is unable to provide space for temporary relocation and as a result Licensee is required to cease operating its Communications Facility in which event Licensee shall be entitled to an abatement of the License Fee equivalent to the number of full days during which Licensee was unable to operate its Communications Facility multiplied by 1/365 of the License Fee applicable during such period. City will calculate and refund such abatement amount, without interest within sixty (60) days after the end of the temporary relocation period.

Section 7.2 At the end of the temporary relocation period, Licensee shall at Licensee's sole cost, return the relocated Communications Facility to the Licensed Area, unless the parties mutually agree that the Communications Facility may remain at the temporary location in which case the parties shall memorialize such agreement by an amendment to this License. Licensee shall have a right to terminate this License upon thirty (30) days prior written notice to City if any temporary relocation exceeds ninety (90) days, or if City requires Licensee to relocate the Communications Facility more than one (1) time during the Term. If the License is terminated for such reason, City shall refund pre-paid and unused months of the License Fee on a proportionate basis, but Licensee shall not be entitled to reimbursement or payment by City of any further expenses or costs it may incur by reason of its election to terminate this License hereunder.

Section 7.3 Permanent Relocations. City shall endeavor to give Licensee at least twelve (12) months prior written notice of the necessity to relocate the Communications Facility or a portion thereof to a new location upon the Property, and will use good faith efforts to provide another mutually acceptable City location on the Property for such relocation. Licensee shall be solely responsible at its cost for relocating the Communications Facility and obtaining any necessary permits and otherwise complying with all laws, permits, and other rules and regulations of any public entity applicable in connection with the relocation of its Communications Facility.

Licensee shall have a right to terminate this License upon ninety (90) days prior written notice to City if Licensee's relocation of the Communications Facility to the mutually agreeable alternative location on the Property is technically infeasible. If the License is terminated for such reason, City shall refund pre-paid and unused months of the License Fee on a proportionate basis, but Licensee shall not be entitled to reimbursement or payment by City of any further expenses or costs it may incur by reason of its election to terminate this License hereunder.

Section 8. City's Termination. In addition to other rights of termination and revocation City has under this License, City may terminate and revoke this License prior to expiration of the License Term or Renewal Term, if applicable, in any of the following circumstances: By giving Licensee twelve (12) months prior written notice, if City determines in its sole discretion that the Licensed Area is necessary for the exercise of its Paramount Rights at the Property or the City decides to redevelop, sell, or otherwise dispose of its fee ownership of the Property. Upon notice of termination and revocation under this Section, City shall make a good faith effort to permit Licensee to relocate the Communications Facility to another of City's sites prior to termination of the License, provided Licensee assumes all costs of any such relocation.

Section 8.1 By giving Licensee thirty (30) days prior written notice, if Licensee fails to maintain and repair the Communications Facility according to the requirements of the License and fails to cure such non-compliance within thirty (30) days following Licensee's receipt of such written request.

Section 8.2 If Licensee fails to pay the License Fee when due, City may, after giving fifteen (15) days prior written notice to Licensee, terminate and revoke this License and seek other remedies, as appropriate, under the laws of the State of California, unless Licensee cures such default by payment of the License Fee and accrued interest charges within such notice period.

Section 8.3 By giving Licensee ten (10) days prior written notice, if Licensee fails to repair any damage it causes to the City Attachments and fails to cure such non-compliance within ten (10) days following Licensee's receipt of such written request. For purposes of this Section 8.3, Licensee shall not be deemed to be in default for failure to timely cure if such failure is caused by supply chain shortages of any equipment or supplies necessary to repair the City Attachments that are beyond the reasonable control of Licensee.

Section 8.4 If Licensee fails to perform or observe any of terms or conditions of this License, City may, after giving thirty (30) days prior written notice to Licensee terminate and revoke this License and seek other remedies, as appropriate, under the laws of the State of California, unless Licensee cures such default within such notice period.

Section 8.5 If any default described in this Section 8 cannot reasonably be remedied within the applicable cure period, Licensee shall not be deemed to be in default hereunder if

Licensee commences a cure within the allotted cure period and diligently pursues the cure to completion.

Section 9. Licensee's Limited Termination Right.

Section 9.1 It is understood and agreed that Licensee's ability to use the Property is contingent upon Licensee obtaining and continually maintaining in full force and effect, after the Commencement Date, all the certificates, permits, and other approvals that are required by any federal, state, or local authorities. In the event that any application for a Governmental Approval is denied with prejudice or any certificate, permit, license, or approval issued to Licensee is canceled, expires, lapses, or is otherwise withdrawn or terminated by any governmental authority so that Licensee is unable to use the Property for its intended purposes, Licensee may terminate this License upon ninety (90) days written notice to City, except that those terms that by their nature survive termination such as Licensee's obligations to remove the Communications Facility and restore the Property, and the indemnity obligation shall survive in accordance with the terms of this License. In addition to the above, Licensee may terminate this License upon written notice to City in the event that: (i) Licensee determines any structural analysis is unsatisfactory; (ii) Licensee, in its reasonable discretion, determines the use of the Licensed Area is obsolete or unnecessary; or (iii) at any time before the Commencement Date for any reason or no reason in Licensee's sole discretion. In the event Licensee terminates this License prior to the Commencement Date, Licensee shall pay to City a one-time fee in the amount of Fifteen Thousand Dollars (\$15,000) contemporaneously with the delivery of written notice to City outlining Licensee's termination.

Section 9.2 In addition to the right of termination in Section 9.1, Licensee may terminate and revoke this License prior to expiration of the Initial Term or any Renewal Term, if City fails to perform or observe any of its obligations under this License, Licensee may, after giving thirty (30) days prior written notice to City terminate and revoke this License and seek other remedies, as appropriate, under the laws of the State of California, unless City commences to cure such default within thirty (30) days after receipt of notice from Licensee and diligently pursues the cure to completion.

Section 10. Licensee's Installation, Ownership, Operation and Maintenance; FCC Regulations, Emissions Testing; Compliance with Law.

Section 10.1 Licensee shall install, construct and maintain the Communications Facility in accordance with this License.

Section 10.2 It is expressly understood and agreed that any and all fixtures and equipment of whatsoever nature at any time constructed or placed on the Property by Licensee shall be and remain the personal property of Licensee. Licensee shall have the right at any time during the

License Term, and the Renewal Term, if applicable, to remove any and all fixtures and equipment owned or placed by Licensee in, under, or upon the Licensed Area.

Section 10.3 Licensee, at Licensee's sole cost and expense shall keep and maintain, or cause to be kept and maintained, the Communications Facility in a state of good appearance and repair, reasonable wear and tear and casualty damage excepted, unless any casualty damage occurs to the New Pole (as defined in Section 10.5 below), in which case the Licensee, at Licensee's sole cost and expense, shall repair such damage, and thereafter keep and maintain the New Pole in a state of good appearance during License Term, and the Renewal Term, if applicable; provided however, that in the event City causes damage to the New Pole, City shall be responsible at City's sole cost and expense to repair the same. In the event Licensee causes damage to the City Attachments (as defined below), Licensee shall, at Licensee's sole cost and expense, be responsible to repair the same. Upon City's written request, Licensee shall complete all such repairs to the City Attachments at its sole expense within ten (10) days of receipt of such notice. If the Licensee fails to repair the damage within ten (10) days, and such failure is not a result of a supply chain shortage out of the reasonable control of Licensee as more specifically described in Section 8.3, the City may complete or cause to be completed the work, and Licensee shall reimburse the City for such invoiced costs within thirty (30) days of receipt of invoice with reasonable supporting documentation from City.

Section 10.4 Licensee shall, at its sole cost and expense, protect, replace and provide any landscaping required in its permits to shield the Communications Facility on the Property and shall promptly replace any City landscaping damaged by Licensee's activities. Upon City's written request, Licensee shall complete all such work at its sole expense within thirty (30) days of receipt of such notice. If the Licensee fails to comply with this Section, the City may complete or cause to be completed the work, and Licensee shall reimburse the City for such invoiced costs within thirty (30) days of receipt of invoice with reasonable supporting documentation from City.

Section 10.5 In conjunction with Licensee's initial construction of the Communication Facility, Licensee shall decommission, remove and replace the existing airport beacon tower ("Existing Beacon Tower") in the location set forth on **Exhibit B**. In addition to the removal of the Existing Beacon Tower, Licensee shall construct one new eighty-foot, ten-inch (80'-10") monopole (the "New Pole") on the Licensed Area as shown on **Exhibit B**. Following Licensee's completion of construction of the New Pole, Licensee at Licensee's sole cost shall install an airport beacon light, consisting of a Hali-Brite L-802A Airport Rotating Beacon HBM 400PS, or equivalent, such equivalent shall be subject to the prior written approval of City by City and four security cameras manufactured within the United States, consisting of the Avigilon Alta H5A Multisensor Cloud Cameras (8MP minimum; 1-year storage capability; SOV Security as the preferred vendor (California Certified Small Business No. 05716)), or equivalent, such equivalent shall be subject to the prior written approval of City on the New Pole ("City Attachments"), as more specifically described and depicted on **Exhibit C** attached hereto and made a part hereof.

The City Attachments shall become the property of City upon installation, and City shall have unrestricted access to operate, maintain, and repair the City Attachments; provided, however City shall make reasonable efforts to provide Licensee with written notice prior to accessing the City Attachments. In the event such City access is for purposes of maintenance, repairs, or some other activity that requires a temporary shutdown of the Communications Facility, City shall contact Licensee's Network Management Center ("NOC") at 800-264-6620 at least 48 hours before accessing the City Attachments; provided however, that in the event City accesses the City Attachments without prior notice to the NOC as provided herein, Licensee shall not be liable for any injuries or damage that occurs to City or any of City's employees, volunteers, agents or contractors and City waives and releases Licensee with respect to the same. In the event of an emergency, City shall call the NOC and Licensee shall shut down the Communications Facility as soon as possible. City reserves the right to install, operate, and maintain its own communications equipment ("City Communications Equipment") on the New Pole from time to time in City's sole discretion subject to Licensee's reasonable advance written consent, which such consent shall not be unreasonably withheld, conditioned, or delayed. Licensee's review of the City's proposed installations shall be limited to: (a) confirming that the City's proposed equipment will not interfere with Licensee's Communications Facility; and (b) confirming that the City's proposed equipment will not detrimentally impact the structural integrity of the New Pole. Licensee shall ensure that the New Pole is installed properly, in a good workmanlike manner, and is sufficient for Licensee's proposed use under this License. Licensee at its sole cost and expense shall remove the existing light assembly and platform from the Existing Beacon Tower and the Existing Beacon Tower from the Licensed Area and place the existing light assembly and platform from the Existing Beacon Tower and the Existing Beacon Tower on the ground adjacent to the Licensed Area for removal and/or storage by City. City shall promptly remove all of the same from the area adjacent to the Licensed Area and if City does not do so within thirty (30) days, Licensee shall have the right to remove and dispose of the existing light assembly and platform and the Existing Beacon Tower at Licensee's discretion. Licensee shall be obligated to replace the Existing Beacon Tower if Licensee terminates this License prior to the completion of the New Pole. During the Term of this License, the New Pole shall be the property of Licensee upon its installation. One year prior to the expiration date of this License, the parties will jointly inspect the New Pole to determine the then current as-is condition. Upon expiration or earlier termination of this License, Licensee shall remove its Communications Facility from the Property in accordance with the requirements of Section 11 of this License, and the New Pole shall become the property of City, in its as-is, then-existing condition (with no warranties, express or implied), and both parties agree to execute any documents as may be reasonably necessary to evidence such transfer.

Section 10.6 Licensee shall, at its sole cost and expense, repair any damage it may cause to the Licensed Area, access areas, means of ingress or egress, or any Access Easement. Upon City's written request, Licensee shall repair any such damage at its sole expense within thirty (30) days of receipt of such notice. If the Licensee fails to comply with this Section, the City may complete or cause to be completed the work, and Licensee shall reimburse the City for such

invoiced costs within thirty (30) days of receipt of invoice with reasonable supporting documentation from City; provided, however, in no event shall City have the right to make repairs to the Communications Facility.

Section 10.7 Licensee shall have a separate meter installed for Licensee's electrical power consumption, whereupon Licensee shall be solely responsible for payment of all of its electrical utilities costs. No other connection is authorized by this License, and no other fuels of any type shall be used or stored by Licensee within the Licensed Area without the advance written consent of City. Notwithstanding the foregoing, City acknowledges and consents to Licensee's installation, operation and maintenance of an emergency standby generator on the Property as described on Exhibit B and depicted on Exhibit C attached hereto.

Section 10.8 In addition to compliance with specific laws otherwise described in this License, Licensee shall comply, and will ensure that its contractors and representatives will comply, with all regulations and requirements of the FCC and the California Public Utilities Commission, and all other federal, state and local laws, ordinances, rules and regulations, including health and safety requirements, pertaining to the construction, installation, operation and maintenance of the Communications Facility and work on the Property during the License Term and Renewal Term, and in conjunction with any activities undertaken on the Property by Licensee either prior to the Effective Date, or after expiration of this License. Requirements of the federal Occupational Safety and Health Administration (OSHA) and the California Division of Occupational Safety and Health (CAL-OSHA), whichever is stricter, shall be adhered to at all times during any activities on the Property by Licensee and its contractors or other representatives. Licensee shall have a safety and injury prevention program in place for the construction, installation, operation and maintenance of the Communications Facility and work on the Property, if required by laws or regulations. If required by law or regulation, a copy of any such program shall be on the Property at all times.

Section 10.9 Nothing in the approval of this License by the City shall be binding on the City Council, Planning Commission, or any other commission, committee, board or body of the City regarding any Governmental Approvals of the proposed development required by such bodies regarding Licensee's use of the Licensed Area. Nothing in this License, nor any action by Licensee with reference to this License or any related documents shall be deemed to constitute issuance or waiver of any required City approval regarding the Licensed Area, or waiver or exercise of any legislative discretion of the City regarding any application, approval or other matter relating to Licensee's intended use of the Licensed Area.

Section 10.10 The parties agree that nothing in this License is intended to commit the Licensee to completing a particular project or to commit the City to granting any approval for such proposed use. The City's approval of this License does not constitute approval by the City of any proposed development on the Licensed Area or of other activity on the Licensed Area that would

have a direct or reasonably foreseeable indirect environmental impact pursuant to the California Environmental Quality Act, Public Resources Code Section 21000 *et seq.* (“CEQA”). (See 14 C.C.R. §§ 15060(c); 15378(b).) Moreover, Licensee’s future use or development of the Licensed Area is expressly conditioned on CEQA compliance. City shall conduct environmental review in accordance with CEQA prior to taking any discretionary action with regard to any proposed development or use of the Licensed Area by Licensee. Nothing in this License shall be construed to limit the City’s discretion to consider and adopt any mitigation measure or project alternative, including the alternative of rejecting Licensee’s applications for the Entitlements or any proposed development or use of the Licensed Area by Licensee, as provided in Public Resources Code Section 21002. Following completion of the City’s environmental review of any proposed development or use of the Licensed Area by Licensee, the City shall file a notice of such approval as provided in Public Resources Code Section 21152.

Section 10.11 Reserved.

Section 10.12 Restrictions on Use:

- (a) Licensee shall not use or permit the use of the Licensed Area for any purpose other than that set forth in Section 10 and Section 3 above, and Licensee shall comply promptly with all applicable laws, rules and regulations regarding the use of the Licensed Area, including, but not limited to all rules and regulations promulgated by the FAA and all federal requirements outlined in **Exhibit D** attached hereto and incorporated herein.
- (b) Licensee shall not use or permit the use of the Licensed Area in any manner that will (A) tend to create or permit any waste or nuisance, (B) tend to disturb other tenants or users of the Airport, (C) invalidate or cause cancellation or be in conflict with fire or other hazard insurance policies covering the Airport, or (D) increase the rate of fire insurance for the Airport or of property located therein, over that rate in effect on the Commencement Date hereof. Licensee, at its expense, shall comply with all rules, orders, regulations or requirements of the State and City Fire Code.

Section 10.13 Airport Use. In connection with the ownership and use of the Airport by City, Licensee hereby agrees as follows:

- (a) City reserves the right to further develop or improve the landing area of the Airport as it sees fit, regardless of the desires or views of Licensee, and without interference or hindrance. If the foregoing development or improvement shall have a material adverse effect on Licensee's use of the Licensed Area, the parties hereto shall meet and confer prior to the commencement of such development or improvement.

- (b) City reserves the right, but shall not be obligated to Licensee, to maintain and keep in repair the landing area of the Airport and all publicly-owned facilities of the Airport to standards established by City in City's sole discretion, together with the right to direct and control all activities of Licensee in this regard.
- (c) This License shall be subordinate to the provisions and requirements of any existing or future agreement between City and agencies of the United States relative to the development, operation or maintenance of the Airport.
- (d) In the event any future structure or building is planned for the Licensed Area or in the event of any planned modification or alteration of any present or future building or structure situated on the Licensed Area, Licensee shall comply with the notification and review requirements covered in Part 77 of the Federal Aviation Regulations.
- (e) It is understood and agreed that nothing herein contained shall be construed to grant or authorize the granting of any exclusive right within the meaning of Section 308(a) of the Federal Aviation Act of 1958 (49 U.S.C. Section 1349).
- (f) There is hereby reserved to City, its successors and assigns, for the use and benefit of the public, a right of flight for the passage of aircraft in the airspace above the surface of the Licensed Area. This public right of flight shall include the right to cause within the said airspace any noise inherent in the operation of any aircraft used for navigation or flight through the said airspace or landing at, taking off from or operating on the Airport.
- (g) Licensee, by accepting this License, expressly agrees for itself, its successors and assigns that it will not permit any natural growth or other obstruction on the land licensed hereunder above a height as determined by the application of the requirements of Part 77 of the Federal Aviation Regulations.
- (h) Licensee shall not make use of the Licensed Area in any manner which might interfere with the landing and taking off of aircraft from the Airport, or which might otherwise constitute a hazard. In the event the aforesaid covenant is breached, City reserves the right to enter upon the Licensed Area and cause the abatement of such interference, at the expense of Licensee; provided, however City shall make reasonable efforts to provide Licensee with written notice prior to accessing the Licensed Area and taking any such abatement measures, except in the event of an emergency, in which case Licensee shall provide notice to City as soon as reasonably possible after such emergency.

- (i) This License and all the provisions hereof shall be subject to whatever right the United States Government now has, or in the future may have or acquire, affecting the control, operation, regulation and taking over of said Airport, or the exclusive or nonexclusive use of the Airport, by the United States during the time of war or national emergency or otherwise.
- (j) Licensee shall conform to the Airport Rules and Regulations and FAA safety and security rules and regulations regarding use of the Airport operations area including runways, taxiways, aircraft aprons by vehicles, employees, customers, visitors, etc. in order to prevent security breaches and avoid aircraft incursions and vehicle/pedestrian deviations; will complete and pass an airfield safe driving instruction program when offered or required by the Airport, and will be subject to penalties as prescribed by the Airport for violations of the Airport safety and security requirements.

Section 10.14 Airport Security. Licensee is responsible for the security for the Licensed Area or any other area for which Licensee has an exclusive right to use or which Licensee otherwise controls. Licensee is further responsible for complying with City's security requirements with respect to access to and entry upon Airport operations areas, or other areas of the Airport designated by City from time to time as security areas, by employees, subtenants, contractors, invitees or customers of Licensee or any other person who enters the Airport operations areas at Licensee's invitation, direction, or authority, whether through or from the Licensed Area or otherwise.

Section 10.15 No City Obligations. City shall have no obligation to make any repairs to the Licensed Area other than as expressly and specifically set forth in this License. Licensee hereby waives any and all rights provided in Sections 1941 through 1942, inclusive, of the Civil Code of California and hereby waives, to the extent permissible, any rights other than statutes or laws now or hereafter in effect which are contrary to the obligations of Licensee under this License, or which place obligations upon City in addition to those provided in this License.

Section 10.16 City's Reservations of Rights. During the Term of this License, City reserves the right, in its sole discretion, to reconstruct, alter or improve the aircraft pavement areas of the Licensed Area, to such standards as it shall determine; provided, however, if such reconstruction, alteration or improvement to the aircraft pavement areas would result in a material adverse effect on Licensee's use of the Licensed Area, the parties hereto shall meet and confer prior to the commencement of such reconstruction, alteration or improvement. Licensee hereby acknowledges that City has no obligation to make such alterations or improvements.

Section 11. Removal & Restoration. Prior to the expiration of the License or within ninety (90) days of the earlier termination of the License, Licensee shall (1) remove all of the Communications Facility (except the New Pole, footings and foundations) at its sole expense and

(2) repair any damage to the Licensed Area caused by such removal and shall return the Licensed Area to the condition which existed before the Effective Date, reasonable wear and tear and casualty damage excepted, unless any casualty damage occurs to the City Attachments and/or New Pole during removal activities, in which case the Licensee, at Licensee's sole cost and expense, shall repair such damage.

Section 12. Prior Communications Facilities on Property, City Communications Systems; Non-interference.

Section 12.1 Licensee acknowledges and understands that there may be communications facilities and systems on Property belonging to the City and one or more third parties (referred to as the "Prior User(s)") that are subject to existing agreement(s) (the "Prior Use Agreement(s)"), pursuant to which the Prior User(s) has(ve) been permitted to install and operate communications equipment on the Property. Where applicable, Licensee represents and warrants that prior to the execution of this License, Licensee has determined that the City's existing equipment and the existing equipment of all Prior Users present no material interference with Licensee's intended use within the Licensed Area.

Section 12.2 Licensee shall operate the Communications Facility in a manner that will not cause harmful interference to (i) the City's use of the Property, or (ii) any communications equipment operated and/or owned by the Prior User(s) as of the Effective Date, provided that the Prior User(s) operates its communications equipment in accordance with the terms of the Prior Use Agreement(s). If Licensee's Communications Facility causes such harmful interference, Licensee will immediately take all steps necessary to correct and eliminate the interference, including but not limited to, at Licensee's option, powering down such equipment and later powering up such equipment for intermittent testing. If such interference cannot be corrected or powered down within two (2) days after Licensee is advised of such interference, City may require that Licensee cease (or cause the cessation of) operation of the interfering equipment until such interference can be so corrected at which time the operation of such equipment may resume.

Section 12.3 City agrees the City Communications Equipment will not cause interference that is measurable in accordance with industry standards to the then existing communications equipment of Licensee. Without limiting any other rights or remedies, if such interference with Licensee's Communication Facility occurs and continues for a period in excess of 48 hours following notice to City at (805)-237-3877, City shall use good faith efforts to reduce power or cease operations of the interfering City Communications Equipment until the interference is eliminated; provided however, that in the event such City Communications Equipment is located on the New Pole and such interference cannot be eliminated or corrected within ten (10) business days, City shall remove such interfering City Communications Equipment from the New Pole.

Section 12.4 Licensee further acknowledges that City assumes no risk or liability for any interference with Licensee's use of the Property which results from the operation of

communications equipment on the Property by the Prior User(s) under the Prior Use Agreement(s) and agrees that City shall be held harmless from claims due to any such interference, pursuant to the indemnification terms set forth in Section 16 herein.

Section 12.5 City reserves the right to license other portions of the Property to third parties during the License Term and Renewal Term, if applicable. If, subsequent to the installation of the Communications Facility, the new third-party equipment on the Property causes harmful interference with the Communications Facility, Licensee shall use its best efforts to resolve the interference issues in cooperation with the owner and operator of the new equipment without involving City personnel. If any such subsequent users cannot correct such harmful interference within ten (10) business days of Licensee's written notification thereof to City, Licensee may terminate this License upon sixty (60) days written notice to City and obtain a refund of prepaid unused amounts of the License Fee, or seek injunctive or other legal relief against/from such subsequent third party users. The refund shall be Licensee's sole and exclusive remedy and recovery as against City for any interference, and Licensee hereby waives any other rights or remedies it may have at law or in equity against City related thereto. The parties recognize and agree that it is the intention of this Section 12 that City not become embroiled in any disputes or proceedings between Licensee and any other users of the Property, and/or expend funds as a result thereof; therefore, Licensee agrees to indemnify, defend, and hold harmless the City against any claim related to or arising from any disputes or proceedings between Licensee and any other users of the Property.

Section 12.6 Nothing contained in this Section 12 or elsewhere in this License is intended to confer any rights or remedies under, or by reason of this License on, or waive any claims against, or adversely affect any rights of, any person or entity other than the parties hereto.

Section 12.7 Licensee shall install a disconnect device at the point or points of interconnection of Licensee's communications facility's electrical wiring and the electrical utility provider so that in case of emergency which poses an immediate threat of substantial harm or damage to persons and/or property on the Property, City may disconnect Licensee's communications facilities from its power source and safely shut them down. Said disconnect shall be identified to City upon its installation, and shall remain accessible to City until such time as this License is terminated. Licensee shall promptly notify City of installation of any sublicensee disconnects upon completion of construction. In the event of an emergency which poses an immediate threat of substantial harm or damage to persons and/or property on the Property, in which the disconnect device is inaccessible or inoperable, or Licensee is otherwise unable to immediately discontinue operations of its interfering equipment, City may take such steps as it deems necessary to eliminate interference without additional prior notice to Licensee. City shall thereafter promptly notify Licensee by telephone of the interference and remedial steps taken. Licensee shall reimburse City for any and all actual costs incurred by City to eliminate the interference caused by Licensee within sixty (60) days of receipt of an invoice from City and

reasonable supporting documentation. City shall have no liability or be in any way otherwise required to compensate Licensee or any sublicensee for any damage or harm incurred in the course of such emergency corrective action, except to the extent caused by City's sole gross negligence or willful misconduct.

Section 13. Performance Bond. On or before the Effective Date, Licensee shall obtain a faithful performance bond, in an amount adequate to cover one hundred percent (100%) of the costs to remove the Communications Facility and all other personal property and to restore the Property as required by this License from a bond company duly licensed to do business in California in favor of City (the "Bond"). The Bond shall secure (1) Licensee's removal of its equipment from the Licensed Area following the expiration or earlier termination of the License, and (2) the recovery of any unpaid sums duly owed to the City under this License. The Bond shall be maintained in force by Licensee throughout the License Term and Renewal Term, if applicable. Licensee agrees to deliver to City a copy of the Bond prior to commencement of construction activities on the Licensed Area (or if the License is a renewal for a previously constructed facility, prior to full execution of the License). Prior to the commencement of any Renewal Term, City and Licensee shall review the amount of the Bond to assess whether the amount of the Bond is reasonably sufficient to cover then current removal and restoration costs. If it is reasonably determined to be insufficient, Licensee shall obtain and maintain in force a Bond for such additional amount that City reasonably determines to be sufficient.

Section 14. Environmental.

Section 14.1 For purposes of this License, the term "Hazardous Substances" means: (a) any substance, products, waste, or other material of any nature whatsoever which is or becomes listed, regulated, or addressed pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 United States Code Section 9601 et seq.; the Resources Conservation and Recovery Act, 42 United States Code Section 6901 et seq.; the Hazardous Materials Transportation Conservation and Recovery Act, 42 United States Code Section 1801 et seq.; the Clean Water Act, 33 United States Code Section 1251 et seq.; the Toxic Substances Control Act, 15 United States Code Section 2601 et seq.; the California Hazardous Waste Control Act, Health and Safety Code Section 25100 et seq.; the Hazardous Substance Account Act, Health and Safety Code Section 25330 et seq.; the California Safe Drinking Water and Toxic Enforcement Act, Health and Safety Code Section 25249.5 et seq.; California Health and Safety Code Section 25280 et seq. (Underground Storage of Hazardous Substances); the California Hazardous Waste Management Act, Health and Safety Code Section 25170.1 et seq.; California Health and Safety Code Section 25501 et seq. (Hazardous Materials Release Response Plans and Inventory); or the California Porter-Cologne Water Quality Control Act, Water Code Section 13000 et seq., all as amended; or any other federal, state, or local statute, law, ordinance, resolution, code, rule, regulation, order or decree regulating, relating to, or imposing liability or standards of conduct concerning any Hazardous Substance, now or at any time hereinafter in

effect; (b) any substance, product, waste or other material of any nature whatsoever which may give rise to liability under any of the above statutes or under any statutory or common law theory based on negligence, trespass, intentional tort, nuisance or strict liability or under any reported decisions of a state or federal court; (c) petroleum or crude oil, other than petroleum and petroleum products which are contained within regularly operated motor vehicles; and (d) asbestos .

Section 14.2 Except as otherwise specifically permitted under the terms of this License, Licensee shall not use, create, generate, store, deposit, dispose of or allow any Hazardous Substances on, under, about or within the Property or Licensed Area in violation of any federal, state, or local law, rule, regulation, order, decree or other requirement listed in this Section 14. Batteries for emergency power and fuel for temporary generators during power outages may only be used or stored on-site with the prior written approval of City. Notwithstanding the foregoing, City hereby acknowledges and consents to Licensee's installation, operation and maintenance of a generator on the Property as described on Exhibit B and depicted on Exhibit C attached hereto. On site use, but not storage, of ordinary paints, solvents and similar substances commonly used in small quantities and necessary for maintenance of Licensee's Communications Facility are excepted from the preceding prohibition of use by Licensee of Hazardous Substances on the Licensed Area and the Property, so long as Licensee complies with all applicable federal, state and local laws rules and regulations governing the use of such items .

Section 14.3 Unless listed in Exhibit B, no underground or above ground storage tanks shall be installed on Licensed Area.

Section 14.4 City or its officers, employees, contractors, or agents shall at all times have the right to go upon and visually inspect the Licensed Area and the operations conducted thereon to assure compliance with the requirements herein stated. This inspection may also include taking samples for chemical analysis of substances and materials present and/or testing soils on the Licensed Area and taking photographs. Except in case of emergency, City will not take samples or test soils on the Licensed Area without providing Licensee with reasonable notice and the opportunity to have a representative present. Notwithstanding the foregoing, in no event shall the City be permitted to access Licensee's equipment within the Licensed Area. The cost of such inspections and/or sampling shall be paid by City, unless such inspection reveals the presence of Hazardous Substances is the result of Licensee's operations on the Property.

Section 14.5 Licensee shall, within forty-eight (48) hours of the discovery by Licensee of the presence of, or believed presence of, a Hazardous Substance as defined herein, give written notice to City in the event that Licensee knows or has reasonable cause to believe that any release of Hazardous Substance has come or will come to be located on, under, about or within the Licensed Area. Licensee shall immediately clean up and completely remove all Hazardous Substances placed by Licensee on, under, about or within the Licensed Area or the Property, in a manner that is in all respects safe and in accordance with all applicable laws, rules and regulations;

provided that, City's approval of such actions shall first be obtained, which approval shall not be unreasonably withheld, conditioned or delayed so long as such actions, in City's sole and absolute discretion, would not potentially have any material adverse long-term or short-term effect on the Licensed Area or the Airport. Any increase in the premium for insurance carried by City or required of Licensee under this License which arises from City's use and/or storage of Hazardous Substances shall be solely at City's expense. Licensee shall procure and maintain at its sole expense such additional insurance as may be necessary to comply with any requirement of any federal, state or local governmental agency or special district with jurisdiction.

Section 14.6 In the event Hazardous Substances are discovered, Licensee shall disclose to City the specific information regarding Licensee's discovery of any Hazardous Substances placed on, under, about or within the Licensed Area or the Property by Licensee, and provide written documentation of its safe and legal disposal.

Section 14.7 Breach of any of these covenants, terms, and conditions, and Licensee's failure to cure within thirty (30) days of Licensee's receipt of written notice from City, shall give City the authority to immediately terminate this License. In either case, Licensee will continue to be liable under this License to remove and mitigate all Hazardous Substances placed by Licensee on, under, about or within the Licensed Area or the Property. Licensee shall be responsible for, and bear the entire cost of removal and disposal of, all Hazardous Substances introduced to the Licensed Area or the Property by Licensee during Licensee's period of use and possession of the Licensed Area. Upon termination of this License, Licensee shall, in accordance with all laws, remove from the Licensed Area any equipment or improvements placed on the Licensed Area by Licensee that may be contaminated by Hazardous Substances.

Section 14.8 Licensee shall defend, indemnify and hold City and its officials, officers, employees, contractors and agents free and harmless from any and all claims, liability, injury, damage, costs, fines, or expenses (including, without limitation, the cost of attorney's fees) arising as a result of the presence or use of any Hazardous Substances placed or caused to be placed by Licensee or its partners, affiliates, agents, officials, officers, contractors or employees on the Licensed Area or the Property. City shall defend, indemnify and hold Licensee and its officials, officers, employees, contractors and agents free and harmless from any and all claims, liability, injury, damage, costs, fines, or expenses (including, without limitation, the cost of attorney's fees) arising as a result of the presence or use of any Hazardous Substances on the Property except to the extent resulting from the activities of Licensee, or Licensee's contractors, subcontractors, agents, employees or invitees. The foregoing indemnity is intended to operate as an agreement pursuant to, among other requirements, Section 107, subdivision (e) of CERCLA, 42 United States Code Section 9607, subdivision (e), and California Health and Safety Code Section 25364, to insure, protect, hold harmless and indemnify each party from any liability created by the other party pursuant to such sections.

Section 14.9 City and Licensee recognize that Licensee is only using a small portion of the Property and that Licensee shall not be responsible for any environmental condition or issue except to the extent resulting from Licensee's specific activities and responsibilities or the actions or omissions of or Licensee's contractors, subcontractors, agents, employees or invitees. In the event that Licensee encounters any Hazardous Substances that do not result from Licensee or Licensee's contractors, subcontractors, agents, employees or invitees actions or omissions, Licensee may relocate its facilities to avoid such Hazardous Substances to a mutually agreeable location or, if Licensee desires to remove at its own cost all or some the Hazardous Substances or materials (such as soil) containing those Hazardous Substances, Licensee agrees to sign any necessary waste manifest associated with the removal, transportation and/or disposal of such substances.

Section 15. Insurance. Licensee shall procure and maintain at all times during the term of this License, at its sole cost and expense, a policy or policies of commercial general liability insurance with limits of Two Million Dollars (\$2,000,000.00) per occurrence for bodily injury (including death) and property damage and Four Million Dollars (\$4,000,000.00) general aggregate including personal and advertising injury and contractual liability, covering claims or incidents arising out of or resulting from Licensee's operations under this License by the terms of which Licensee is named as insured. Worker's compensation insurance shall be in compliance with the statutory requirements of the state(s) of operation and employer's liability with limits of \$1,000,000 each accident/disease/policy limit.

Section 15.1 Endorsements. The following endorsements shall be attached to the liability insurance policy:

- (a) The City, its officers, employees, and volunteers shall be included as additional insureds as their interest appear under this License under the commercial general liability coverage afforded with respect to liability arising out of activities performed by or on behalf of Licensee under this contract. The coverage shall contain no special limitations on the scope of protection afforded to City, its officers, agents, employees and volunteers.
- (b) An endorsement shall be attached which states that the coverage is primary insurance and that any insurance or self-insurance fund maintained by or available to City or any of its officers, employees or volunteers shall be in excess of Licensee's insurance and shall not be called upon to contribute to a loss covered by the policy.
- (c) A cross-liability endorsement must be included to the effect that each insured is covered as if separate policies had been issued to each insured.
- (d) The liability coverage may be on a blanket basis.

Section 15.2 Additional Requirements.

(a) **Fire Insurance.** Licensee shall at all times during the term of this License and at its sole expense, procure and maintain in full force a policy or policies of standard fire and extended coverage insurance insuring all improvements on the Licensed Area in an amount equal to not less than the full replacement costs. Licensee agrees to reevaluate insurance coverage at three (3)-year intervals and to increase said coverage if it shall be less than the then full replacement cost of the improvements on the Licensed Area. The amount of the full replacement cost shall be determined in writing by the carrier of insurance then in force and shall be binding on the parties for the purpose of this paragraph. The insurance policies insuring against fire or other casualty shall include the City as Loss Payee and the interest of the holder of any “mortgage” executed by Licensee in connection with obtaining of any interim or permanent financing with respect to the Licensed Area, and said policies shall provide that any loss is payable jointly to City, Licensee and the holder, if any, of a “mortgage” in the Licensee’s interest under this License. Proceeds from any insurance policy shall be used in accordance with the provisions of this License dealing with use of insurance funds for repair and restoration.

(b) **Certificates of Insurance.** The insurance required under this License shall be issued by companies authorized to do business in California having not less than an A.M. Best’s A- rating. A certificate of insurance shall be delivered to City on the Commencement Date. Upon receipt of notice from its insurers, Licensee shall provide the City with thirty (30) days’ prior written notice of cancellation of any required coverage.

(c) **Use of Insurance Funds for Repair and Restoration.** In the event any buildings, structures or improvements located on the Licensed Area are damaged by fire or other casualty, any such sums as are received from or on account of any policy of insurance covering the same shall, except as provided in Section 11, be expended for the restoration, repair or replacement of said buildings, structures or improvements.

(d) **Waiver of Subrogation.** The parties hereby release each other, and their respective representatives, from any claims for damage to any person or to the Licensed Area and the improvements which may be located upon the Licensed Area and to the fixtures, personal property, Licensee’s improvements and alterations of Licensee in or on the Licensed Area and the improvements which may be located upon the Licensed Area that are caused by or result from risks insured against under any insurance policies carried by the parties hereto and in force at the time of any such damage. Each party hereto shall cause each insurance policy obtained by it to

provide that the insurance company waives all right of recovery by way of subrogation against either party in connection with any damage covered by any policy, provided obtaining such a waiver in each such policy is then available at a reasonable charge.

Section 16. Indemnification of City. City's Non-liability. City shall not be liable for any loss, damage or injury of any kind to any person or property arising from any use of the Licensed Area, or any part thereof, or caused by any defect in any building, structure or other improvement thereon or in any equipment or other facility therein, or caused by or arising from any act or omission of Licensee or any of its agents, employees, licensees or invitees, or by or from any accident on the Licensed Area or any fire or other casualty thereon, or occasioned by the failure of Licensee to maintain the Licensed Area and all improvements thereto in a safe condition, or arising from any other cause except where caused by the gross negligence or willful misconduct of City, its agents or employees.

Section 16.1 To the fullest extent permitted by law, Licensee shall, at Licensee's sole expense and with counsel reasonably acceptable to City, defend, indemnify, and hold harmless City and City's officers, officials, employees and agents from and against all claims, (including demands, losses, actions, causes of action, damages, liabilities, expenses, charges, assessments, fines or penalties of any kind, and costs including consultant and expert fees, costs of investigation, court costs and attorney's fees) from any cause, to the extent arising out of or relating (directly or indirectly) to this License, the occupancy privilege created under this License, or the Licensed Area, including without limitation:

- (a) The use or occupancy, or manner of use or occupancy of the Licensed Area;
- (b) Any act, error or omission, or negligence of Licensee or of any sublicensee, invitee, guest, contractor or Licensee in, on, or about the Licensed Area;
- (c) Any alterations, activities, work, or things done, omitted, permitted, allowed, or suffered by Licensee in, at, or about the Licensed Area or buildings, including the violation of or failure to comply with any insurance requirements or any applicable laws, statues, ordinances, standards, rules, regulations, orders, decrees, or judgments in existence on the Commencement Date or enacted, promulgated, or issued after the date of this License, and
- (d) Any breach or default in performance of any obligation on Licensee's part to be performed under this License, whether before or during the term of this License or after its expiration or earliest termination; and
- (e) This indemnification extends to and includes, without limitation, claims for:
 - (i) Injury to any persons (including death at any time resulting from that injury);

(ii) Loss of, injury or damage to, or destruction of property (including loss of use at any time resulting from that loss, injury, damage, or destruction); and

(iii) All economic losses and consequential or resulting damage of any kind.

Section 16.2 Licensee's indemnification obligation hereunder shall survive the expiration or earlier termination of this License until all claims against City involving any of the indemnified matters are fully, finally, and absolutely barred by the applicable statutes of limitations.

Section 16.3 Licensee's occupancy, maintenance and use of the Licensed Area and Communications Facility shall be at Licensee's sole risk and expense. Licensee accepts all risk relating to Licensee's: (i) occupancy, maintenance and/or use of the Licensed Area and/or Communications Facility; and (ii) performance of, or failure to perform, this License. City shall not be liable to Licensee or Licensee's insurer(s) for, and Licensee and its insurer(s) hereby waives and releases City from, any and all loss, liability, fines, penalties, forfeitures, costs or damages resulting from or attributable to an occurrence on or about the Licensed Area to the extent in any way related to the Licensee's operations and activities. Licensee shall immediately notify City of any occurrence on the Licensed Area resulting in injury or death to any person or damage to property of any person.

Section 16.4 If it is necessary for Licensee to contract for the design, construction and/or maintenance of the Communication Facility, Licensee shall require each consultant and contractor to indemnify, hold harmless, defend and release City and its officers, officials, employees, agents and volunteers in accordance with the terms of the preceding paragraphs. The section shall survive termination or expiration of this License.

Section 16.5 Except for indemnification above, or a violation of law, neither party hereto shall be liable to the other, or any of their respective agents, representatives, or employees for any lost revenue, lost profits, diminution in value of business, loss of technology, rights or services, loss of data, or interruption or loss of use of service, incidental, punitive, indirect, special, trebled, enhanced or consequential damages, even if advised of the possibility of such damages, whether such damages are claimed for breach of contract, tort (including negligence), strict liability or otherwise, unless applicable law forbids a waiver of such damages.

Section 17. Jurisdiction and Venue. This License shall be construed in accordance with and governed by the laws of the State of California. Any legal action or proceeding brought to interpret or enforce this License, or which in any way arises out of the parties' activities undertaken pursuant to this License, shall be filed and prosecuted in the appropriate California State Court in the County of San Luis Obispo, California. Each party waives the benefit of any provision of state or federal law providing for a change of venue to any other court or jurisdiction including, without limitation, a change of venue based on the fact that a governmental entity is a party to the action or proceeding,

or that a federal right or question is involved or alleged to be involved in the action or proceeding. Without limiting the generality of the foregoing waiver, Permittee expressly waives any right to have venue transferred pursuant to California Code of Civil Procedure Section 394.

Section 18. Entire Agreement; Amendment. This License constitutes the entire understanding between the parties with respect to the subject matter hereof, superseding all negotiations, prior discussions and agreements made prior to the date hereof. In the event there is an existing lease or license between Licensee (or its predecessor-in-interest) and City covering the Licensed Area, it is agreed and understood that this License shall cancel, supersede and terminate said prior lease or license as of the Effective Date of this License. This License may not be modified except in a writing executed by both parties.

Section 19. Paragraph Heading and Construction. The section headings contained in this License shall not be considered to be a part hereof for purposes of interpreting or applying this License, but are for convenience only.

Section 20. Binding on Successors; No Third-Party Beneficiaries. This License, and all of the provisions hereof, shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, and assigns. No customer, other person or entity other than the parties shall be deemed to be a third-party beneficiary hereof, and nothing in this License, either express or implied, is intended to confer upon any customer or other person or entity, other than the parties and their respective successors and assigns, any rights, remedies, obligations or liabilities under or by reason of this License.

Section 21. Independent Contractors. Licensee's contractors, agents and representatives are independent contractors of Licensee, and are not employees or independent contractors of City while on the Property, or while engaged in any work on the Property, including the construction, installation, maintenance or operation of the Communications Facility.

Section 22. Limited Assignment/ Sub-licensing.

Section 22.1 Except as otherwise expressly set forth herein, this License, or the license interest of Licensee in the Property, shall not be assigned by Licensee except with the prior written consent of City which consent may be withheld in the City's sole discretion.

Section 22.2 Licensee may sublicense the Licensed Area to any third-party communications provider consistent with this License and subject to the advance written consent of the City, which consent may be withheld in the City's reasonable discretion. In the event the City approves a sublicense request from Licensee, the sublicensee shall be required to enter into a separate ground lease agreement with the City for the sublicensee's additional ground space needed outside of the Licensed Area. City may condition the execution of such new ground lease agreement on the payment of additional rent to City from the sublicensee directly. In the event the

City receives a third-party sublicense request for the Licensed Area, the City shall submit the request to Licensee, and Licensee shall reasonably cooperate with City and review such requests in good faith. Such sublicense requests are subject to Licensee's advance written consent, which consent shall not be unreasonably withheld, conditioned, or delayed.

Section 22.3 Any attempted or unauthorized assignment or sub-license shall be void and shall be cause for immediate termination of this License by City. The acceptance of License Fees by City from any person other than Licensee or an authorized assignee shall not be deemed to be a waiver by City of any provision hereof. Consent to one assignment shall not be deemed consent to any subsequent assignment.

Section 23. Attorneys' Fees. Should either party institute arbitration or legal or other proceedings against the other for or on account of its failure or refusal to perform or fulfill any of the covenants or conditions of this License on its part to be performed or fulfilled, then the prevailing party in such action or proceeding shall receive from the other party attorney's fees and costs as adjudged reasonable by the arbitrator, or court.

Section 24. Notice. All notices, requests, and demands hereunder will be given in writing by first class, certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices, requests and demands will be addressed to the parties as follows:

If to Licensee:

AirTouch Cellular Inc.
d/b/a Verizon Wireless
180 Washington Valley Road
Bedminster, New Jersey 07921
Attention: Network Real Estate
Site: Paso Robles Airport

With a copy to: Basking Ridge Mail Hub
 Attn: Legal Intake
 One Verizon Way
 Basking Ridge, NJ 07920

If to City:

City of Paso Robles
Attn: City Manager
1000 Spring Street
Paso Robles, CA 93446

Either party may change the address or persons to which notices are to be sent to it by giving thirty (30) days' prior written notice of such change to the other party in the manner provided herein.

Section 25. City's Right to Sell its Interests.

Section 25.1 City's Right to Sell. City shall have the right to sell all of its interest in the Licensed Area and any lease with respect thereto. If City chooses to exercise such right to sell, and whether such sale is to a public entity or non-public entity, City shall conduct the sale in accordance with the legal requirements imposed upon a municipality by law.

Section 25.2 City's Release from Liability Upon Sale. In the event of a sale by City of all of City's interest in the Property and the Licensed Area, City shall be and is hereby entirely freed and relieved of all liability under all of its covenants and unaccrued obligations contained in or derived from this License arising out of any act, occurrence or omission occurring after the consummation of such sale.

Section 26. Counterparts. This License may be executed in counterparts, each of which shall be deemed to be an original.

Section 27. Representations and Warranties. Each party represents and warrants that this License constitutes a legal, valid and binding obligation of such party, and is enforceable against such party in accordance with the terms set forth in the License. Licensee acknowledges and agrees that Licensee is not entitled to relocation assistance, or any other benefits under the Uniform Relocation Assistance Act, or any other applicable provision of law upon termination of this License.

Section 28. No Warranty.

LICENSEE'S RIGHT TO USE THE LICENSED AREA AND THE PROPERTY IS STRICTLY ON AN "AS IS" BASIS WITH ALL FAULTS. CITY MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND AS TO THE PRESENT OR FUTURE CONDITION OF OR SUITABILITY OF THE PROPERTY OR THE LICENSED AREA FOR LICENSEE'S USE AND DISCLAIMS ANY AND ALL WARRANTIES EXPRESS OR IMPLIED WITH RESPECT TO THE PHYSICAL, STRUCTURAL, OR ENVIRONMENTAL CONDITION OF THE PROPERTY, AND LICENSED AREA AND THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. LICENSEE IS SOLELY RESPONSIBLE FOR INVESTIGATION AND DETERMINATION OF THE CONDITION AND SUITABILITY OF THE PROPERTY, AND LICENSED AREA FOR LICENSEE'S INTENDED USE.

Section 29. Taxes. City hereby provides notice pursuant to California Revenue and Taxation Code Section 107.6, and Licensee acknowledges that this License may create a possessory interest and Licensee may be subject to property taxes levied on such interest, as described in California Revenue and Taxation Code Section 107. Licensee shall pay, when due, all real and personal

property taxes, fees and assessments, assessed against the Licensed Area and the Communications Facility and shall reimburse City for any increase in real property or possessory interest taxes levied against the Property as a direct result of the improvements constructed by Licensee on the Licensed Area only for so long as this License has not expired of its own terms or is not terminated by either party.

Section 30. Prevailing Wage. Licensee acknowledges that any improvements, alterations or repairs on the Licensed Area, may be subject to the payment of prevailing wage under the provisions of the California Labor Code. To the extent any such improvements, alterations, or repairs are subject to prevailing wage requirements, the following shall apply:

Section 30.1 Licensee shall and shall cause its contractors and subcontractors to: pay prevailing wages in the construction of any improvements, or alterations on the Licensed Area, or any other work as those wages are determined pursuant to Labor Code Sections 1720 et seq.; to employ apprentices as required by Labor Code Sections 1777.5 et seq.; and comply with the other applicable provisions of Labor Code Sections 1720 et seq., 1725.5, 1771, 1771.1, 1771.4, 1776, 1777.5 et seq., 1810-1815 and the implementing regulations of the Department of Industrial Relations (the "DIR") for all such Labor Code sections.

Section 30.2 Licensee shall indemnify, hold harmless and defend (with counsel reasonably approved by the City), to the extent permitted by applicable law, City, its councilmembers, commissioners, officials, employees and agents, against any claim for damages, compensation, fines, penalties or other amounts arising out of the failure or alleged failure of any person or entity (including Licensee, or its contractors or subcontractors) to pay prevailing wages as determined pursuant to Labor Code Sections 1720 et seq., to hire apprentices in accordance with Labor Code Sections 1777.5 et seq., or to comply with the other applicable provisions of Labor Code Sections 1720 et seq., 1725.5, 1771, 1771.1, 1771.4, 1776, 1777.5 et seq., 1810-1815 and the implementing regulations of the DIR in connection with the work performed pursuant to this License. The provisions of this Section shall survive expiration or earlier termination of this License.

Section 31. Disclaimer of Representation. Except as otherwise specifically provided herein, City has made no representations or warranties to the Licensee concerning the Licensed Area, the present use thereof or the suitability for Licensee's intended use of the property. The foregoing disclaimer includes, without limitation, topography, climate, air, water, water rights, utilities, present and future zoning, soil, subsoil, drainage, access to public roads, proposed routes of roads, or extension thereof, or effect of any state or federal environmental protection laws or regulations. Licensee represents and warrants to City that he and his representatives have made or will make their own independent inspection and investigation of the Licensed Area and Licensee, in entering into this License, is relying solely on such inspection and investigation. No patent or latent physical condition of Licensed Area, whether or not known or discovered, shall affect the rights

of either party hereto. Any agreement, warranties or representations not expressly contained herein shall in no way bind either Licensee or City. City and Licensee waive any right of rescission and all claims for damages by reason of any statement, representations, warranty, promise and agreement, if any, not contained in this License.

Section 32. Rules and Regulations. Licensee shall comply, and shall ensure that its employees, visitors and guests comply, with the Rules and Regulations established by City for use of the Airport or the Licensed Area, as the same may be amended from time to time by City (“Airport Rules and Regulations”). City has provided Licensee with a copy of the Airport Rules and Regulations in effect as of the Commencement Date, and shall provide Licensee with a copy of any and all rules and regulations and any amendments thereto in writing that may be established by City during the term hereof. As required by the Airport Rules and Regulations, Licensee shall maintain on the Licensed Area a copy of the Airport Rules and Regulations and make it available to all persons upon request. City shall not be responsible to Licensee for the nonperformance of any other tenant or occupant of the Airport of any of said Airport Rules and Regulations.

Section 33. Airport Operation. It is understood and agreed that general control over said Airport and all flying activities in connection therewith are vested by law in the City acting by and through its City Council, Committees and Officers appointed by such City Council. In the general operation of any activities conducted under the terms of this License, Licensee agrees to comply with the Airport Rules and Regulations and all other reasonable rules and regulations adopted by the City for the use and operation of the Airport which are not in conflict with the terms of this License.

Section 34. Continued Operation. Save and except as to acts beyond its control, the City does hereby obligate itself during the Term hereof to continue the operation of said Airport as a public airport, consistent with public regulations.

Section 35. Time. Time is of the essence of this License.

Section 36. Incorporation of Recitals. All of the recitals hereof are incorporated by this reference and are made a part hereof as though set forth at length herein.

Section 37. Survival. All terms that by their nature should survive termination of this License shall survive, including but not limited to payment of amounts owed and indemnification obligations.

Section 38. Exhibits. The following exhibits are incorporated in this License:

Exhibit A Property- Legal Description

Exhibit B Description - Communications Facility (Equipment List) and Licensed Area (Site Plan)

Exhibit C Description – City Attachments

Exhibit D Compliance with Federal Requirements

Section 39. Binding Authority/Authorized Representatives. Each of the parties represents and warrants that it has the full right, power, legal capacity, and authority to enter into and perform its obligations hereunder and that those obligations will be binding upon that party without the approval or consent of any other person or entity. Each person executing this License represents and warrants he/she has been duly authorized to execute the same.

Section 40. Casualty and Condemnation.

Section 40.1 If at any time during the term of this License all or "substantially all" (meaning the remaining portion thereof shall not be of sufficient size or condition to permit the continuation of Licensee's use of the Communications Facility in a commercially reasonable manner) of the Communications Facility upon the Licensed Area, or City's facilities and improvements upon the Property are damaged and/or destroyed by fire or other casualty, then the party whose facilities and improvements were damaged and/or destroyed by fire or other casualty may terminate this License by providing written notice to the other party, which termination shall be effective as of the date of such damage and/or destruction, and whereupon the party whose facilities and improvements were damaged and/or destroyed by fire or other casualty shall be entitled to collect all insurance proceeds payable on account thereof and to the reimbursement of any prepaid License Fee, if any, to be apportioned as of the termination date.

If at any time during the term of this License all or "substantially all" (as described in the preceding subsection 42.1) of the Licensed Area or the improvements located on the Property shall be taken in the exercise of the power of eminent domain by any governmental or other authority, or by deed in lieu of condemnation, then Licensee or City may terminate this License by providing written notice to the other party, which termination shall be effective as of the date of the vesting of title in such taking and any prepaid License Fee, if any, shall be apportioned as of said date and reimbursed to Licensee. City and Licensee shall each be entitled to pursue their own separate awards with respect to such taking, but in any event, Licensee's award shall be limited to lost improvements investment, relocation, and loss of business. In the event of any taking of less than all or substantially all of the Licensed Area, this License shall continue and each of City and Licensee shall be entitled to pursue their own separate awards with respect to such taking.

[Signatures Follow on Next Page]

IN WITNESS WHEREOF, the parties hereto have executed this License as of the day and year first written above.

“City”:

CITY OF PASO ROBLES

“Licensee”:

**AIRTOUCH CELLULAR INC.,
D/B/A VERIZON WIRELESS**

By: _____
City Manager

By: _____
Name: _____
Title: _____

DRAFT

Exhibit A Property- Legal Description

Real property in the City of Paso Robles, County of San Luis Obispo, State of California, described as follows:

PARCELS 20 AND 21 OF PARCEL MAP NO. PRAL 88-207, IN THE CITY OF PASO ROBLES, IN THE COUNTY OF SAN LUIS OBISPO, STATE OF CALIFORNIA, ACCORDING TO MAP RECORDED JUNE 4, 1991 IN BOOK 48, PAGE 23 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

TOGETHER WITH THOSE PORTIONS OF WING WAY AND TAXIWAY "D" VACATED BY THE CITY OF PASO ROBLES, PER RESOLUTION NO. 12-126, RECORDED JULY 24, 2012 AS INSTRUMENT NO. 2012-040381, WHICH WOULD AUTOMATICALLY PASS WITH A CONVEYANCE OF PARCELS.

APN: 025-453-008 AND 025-453-021

DRAFT

Exhibit B Description - Communications Facility (Equipment List) and Licensed Area
Depiction (Site Plan)

DRAFT

BUENA VISTA DR

PASO ROBLES MUNICIPAL AIRPORT

PROPERTY LINE

PROPERTY LINE

INDUSTRIAL

PROPERTY LINE

TAXI WAY

PROPERTY LINE

PROPERTY LINE

(E) BUILDING

APN
025-453-008

APN
025-453-007

PROPOSED VZW 15' WIDE
NON-EXCLUSIVE SITE ACCESS
ROUTE FROM WING WAY

(E) PARKING
AREA

PROPOSED VZW U.G.
UTILITY CONDUIT FROM
P.O.C. TO (P) LEASE
AREA, APPROX. 150'

PROPOSED VZW BEACON
TOWER WITHIN 20'X20'
(400 SF. FT.) EQUIPMENT
LEASE AREA

(E) AT&T TELCO
BARREL VAULT,
PROPOSED VZW
TELCO P.O.C.

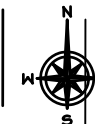
PROPOSED VZW U.G.
UTILITY CONDUIT FROM
P.O.C. TO (P) LEASE
AREA, APPROX. 170'

(E) BEACON LIGHT
TOWER, TO BE REMOVED

(E) PG&E PULL BOX

(E) BUILDING

APN
025-453-021



1 OVERALL SITE PLAN

verizon

2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94698



1 SPECTRUM POINTE DRIVE, SUITE 180
LAKE FOREST, CA 92630-2283



23675 BIRTCHEER DRIVE
LAKE FOREST, CA 92630

**LEASE
EXHIBIT**

PROJECT

NAME:

**PASO ROBLES
AIRPORT**

SITE TYPE:

BEACON LIGHT
TOWER

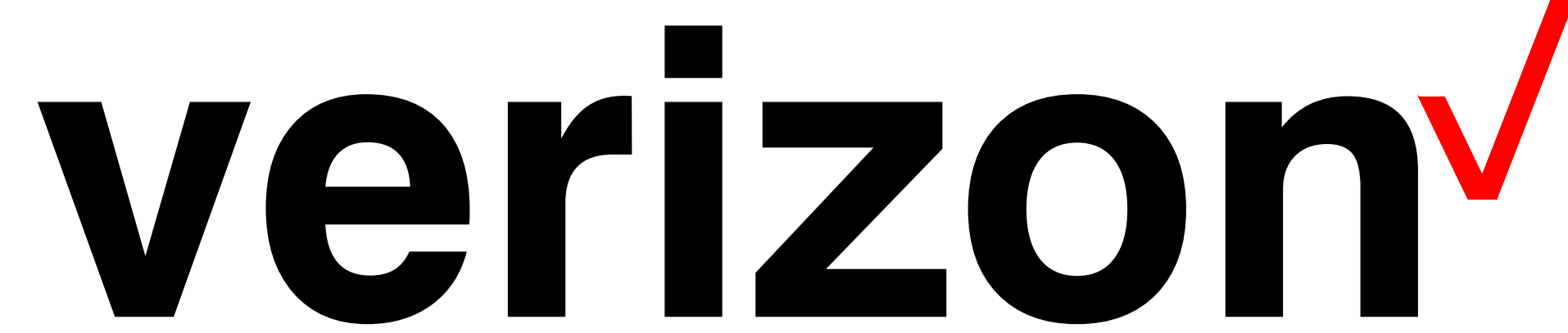
ADDRESS:

4960 WING WAY,
PASO ROBLES, CA 93446

EXHIBIT

LE-1

SCALE: N.T.S.



PROJECT ID: PASO ROBLES AIRPORT
SITE ADDRESS: 4960 WING WAY PASO ROBLES, CA 93446
COUNTY: SAN LUIS OBISPO
APN: 025-453-008
JURISDICTION: CITY OF PASO ROBLES
ZONING: AP-PD (AIRPORT, PLANNED DEVELOPMENT OVERLAY)
PROJECT: INITIAL BUILD
MDG LOCATION ID: 5000347016
FUZE ID: 17059437



PROJECT DESCRIPTION

PROPOSED VERIZON WIRELESS UNMANNED TELECOMMUNICATIONS FACILITY ON PROPOSED BEACON LIGHT TOWER. TO CONSIST OF THE FOLLOWING:
SCOPE OF WORK

- EXISTING BEACON LIGHT TOWER TO BE REMOVED
- NEW 20'X20' (400 SQ. FT.) EQUIPMENT LEASE AREA WITHIN NEW METAL SIDING FENCE ENCLOSURE
- NEW 75' BEACON LIGHT TOWER WITH NEW BASE PLATE
- INSTALL (4) NEW SECURITY CAMERAS
- INSTALL (1) AIRPORT ROTATING BEACON TOWER
- INSTALL (1) 200A VZW METER
- INSTALL (2) NEW EQUIPMENT CABINETS
- INSTALL (1) H-FRAME MOUNTED TELCO CABINET
- INSTALL (1) H-FRAME MOUNTED ILC PANEL
- INSTALL (1) NEW GPS ANTENNA
- INSTALL (4) NEW SERVICE LIGHTS
- INSTALL (1) NEW 30KW DIESEL GENERATOR W/ 203 GAL. SUB-BASE FUEL TANK FOR EMERGENCY USE.
- INSTALL (3) C-BAND PANEL ANTENNAS
- INSTALL (6) LTE PANEL ANTENNAS
- INSTALL (6) LTE RRUS
- INSTALL (2) SURGE SUPPRESSORS (1 @ EQUIPMENT LOCATION # 1 @ ANTENNA LOCATION)

SITE INFORMATION

LATITUDE (NAD83): 35° 40' 22.35" N (35.672875)
LONGITUDE (NAD83): 120° 38' 16.85" W (-120.638015)
ZONING: AP-PD (AIRPORT, PLANNED DEVELOPMENT OVERLAY)
JURISDICTION: CITY OF PASO ROBLES
PARCEL NUMBER: 025-453-008
OCCUPANCY: U
CONSTRUCTION TYPE: V-B
POWER: PG&E

SYMBOLS/ABBREVIATIONS LEGEND

ADD'L	ADDITIONAL	L	LONG(ITUDINAL)
A.F.G.	ABOVE FINISHED GRADE	MAX.	MAXIMUM
ANT.	ANTENNA	MFR.	MANUFACTURER
ASS'Y.	ASSEMBLY	MIN.	MINIMUM
AWG.	AMERICAN WIRE GAUGE	(N)	NEW
BLDG.	BUILDING	NTS	NOT TO SCALE
BTGW.	BARE TINNED COPPER WIRE	O.C.	ON CENTER
CLR.	CLEAR	P.T.	PRESSURE TREATED
CONC.	CONCRETE	RAD.(R)	RADINS
CONN.	CONNECTION(OR)	REQ'D	REQUIRED
CONST.	CONSTRUCTION	RGS.	RIGID GALVANIZED STEEL
CONT.	CONTINUOUS	SCH.	SCHEDULE
DBL.	DOUBLE	SIM.	SIMILAR
D.F.	DOUGLAS FIR	SQ.	SQUARE
DIA.	DIAMETER	S.S.	STAINLESS STEEL
DIM.	DIMENSION	STD.	STANDARD
EA.	EACH	TEMP.	TEMPORARY
ELEV.	ELEVATION	THK.	THICK(NESS)
EMT.	ELECTRICAL METALLIC TUBING	TYP.	TYPICAL
(E)	EXISTING	U.G.	UNDER GROUND
F.G.	FINISH GRADE	U.L.	UNDERWRITERS LABORATORY
FT.(')	FOOT (FEET)	U.N.O.	UNLESS NOTED OTHERWISE
GA.	GAUGE	V.I.F.	VERIFY IN FIELD
HT.	HEIGHT	W	WIDE (WIDTH)
IN.(")	INCH(ES)	W/	WITH
LB.(#)	POUND(S)	WD.	WOOD
L.F.	LINEAR FEET (FOOT)	W.P.	WEATHERPROOF

DRAWING INDEX

SHEET NO:	SHEET TITLE
T-1	COVER TITLE SHEET
C-1	SITE SURVEY
C-2	PROPOSED EASEMENTS
C-3	TITLE & EXCEPTIONS INFORMATION
GN-1	GENERAL NOTES
GN-2	INSPECTION NOTES
A-1	OVERALL SITE PLAN
A-2	ENLARGED EXISTING SITE PLAN
A-2.1	EXISTING UNDERGROUND UTILITY PLAN
A-3	EQUIPMENT LAYOUT PLAN
A-4	ANTENNA LAYOUT PLAN
A-5	ELEVATIONS
A-6	ELEVATIONS
D-1	ANTENNA EQUIPMENT DETAILS
D-2	TOWER EQUIPMENT DETAILS
D-3	EQUIPMENT DETAILS
D-3.1	EQUIPMENT DETAILS
D-4	EQUIPMENT DETAILS
D-5	BATTERY INFORMATION
D-6	GENERATOR WARNING SIGNS & DETAILS
D-7	GENERATOR SPECIFICATIONS
D-8	TANK SPECIFICATIONS
E-1	ELECTRICAL & GROUNDING NOTES
E-2	SINGLE LINE SCHEDULE, NOTES & CONDUIT ROUTE
E-3	ELECTRICAL DETAILS
E-4	PG&E CONSTRUCTION SKETCH (FOR REFERENCE)
G-1	GROUNDING DETAILS & NOTES
G-2	GROUNDING DIAGRAMS
TOWER DRAWINGS	
MP-1	TITLE SHEET
MP-2	NOTES & SPECIFICATIONS
MP-3	ELEVATION VIEWS
MP-4	DETAILS
MP-5	ANTENNA MOUNT DETAILS
MP-6	FOUNDATION

PROJECT ID: PASO ROBLES AIRPORT
DRAWN BY: LS
CHECKED BY: SS

REV	DATE	DESCRIPTION	BY
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THR. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
 WISAM ZALZALI
 71655
 CIVIL
 STATE OF CALIFORNIA

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**PASO ROBLES AIRPORT
 BEACON LIGHT TOWER:
 4960 WING WAY
 PASO ROBLES, CA 93446**

**SHEET TITLE
 COVER TITLE SHEET**

**SHEET NUMBER
 T-1**

VICINITY MAP & SITE IMAGE



PROJECT TEAM

APPLICANT:
 VERIZON WIRELESS
 2770 SHADELANDS DRIVE
 BUILDING II
 WALNUT CREEK, CA 94598

LEASING MANAGER:
 SEQUOIA DEPLOYMENT SERVICES, INC
 1 SPECTRUM POINTE DRIVE, STE 130
 LAKE FOREST, CA 92630
 CONTACT: BOB BALLMAIER
 PHONE: (949) 278-7747
 EMAIL: bob.ballmaier@sequoia-ds.com

ZONING MANAGER:
 SEQUOIA DEPLOYMENT SERVICES, INC
 1 SPECTRUM POINTE DRIVE, STE 130
 LAKE FOREST, CA 92630
 CONTACT: BEN HACKSTEDDE
 PHONE: (949) 259-3344
 EMAIL: ben.hackstedde@sequoia-ds.com

A/E PROJECT MANAGER:
 ALL STATES ENGINEERING & SURVEYING
 23675 BIRTCHE DRIVE
 LAKE FOREST, CA 92630
 CONTACT: SILVIA SANDOVAL
 PHONE: (949) 273-0799 X107
 EMAIL: silvia@alzall.com

PROPERTY OWNER:
 CITY OF PASO ROBLES
 1000 SPRING STREET
 PASO ROBLES, CA 93446
 CONTACT: MARK SCANDALIS, MANAGER
 PHONE: (805) 227-7276
 EMAIL: mscandalis@prcity.com

CODE COMPLIANCE

CONSTRUCTION WORKS AND MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:

- CALIFORNIA CODE OF REGULATIONS
- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA ELECTRIC CODE
- 2022 CALIFORNIA FIRE CODE
- CALIFORNIA EXISTING BUILDING CODE
- CALIFORNIA HISTORICAL BUILDING CODE
- CALIFORNIA RESIDENTIAL CODE
- CALIFORNIA GREEN BUILDING CODE
- 2022 EDITION OF TITLE 24 ENERGY STANDARDS
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY / COUNTY ORDINANCES

NOTE:
 SPECIAL INSPECTIONS REQUIRED (ESR-4266) FOR POST INSTALLED CONCRETE ANCHORS.

ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE.

DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

USA North
 Know what's below.
 Call before you dig.
 California and Nevada
 Call Two Working Days Before You Dig!
 811 / 800-227-2600

GENERAL CONSTRUCTION NOTES:

- PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- INCLUDE MISC. ITEMS PER VERIZON WIRELESS SPECIFICATIONS

APPLICABLE CODES, REGULATIONS AND STANDARDS:

- SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
 - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
 - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
 - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
- EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
- TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
- TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
- TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
- ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS:

A.B.	ANCHOR BOLT	F.O.W.	FACE OF WALL	THK.	THICK(NESS)
ABV.	ABOVE	F.S.	FINISH SURFACE	T.N.	TOE NAIL
ACCA	ANTENNA CABLE COVER ASSEMBLY	FT.(')	FOOT (FEET)	T.O.A.	TOP OF ANTENNA
ADD'L	ADDITIONAL	FTG.	FOOTING	T.O.C.	TOP OF CURB
A.F.F.	ABOVE FINISHED FLOOR	G.	GROWTH (CABINET)	T.O.F.	TOP OF FOUNDATION
A.F.G.	ABOVE FINISHED GRADE	GA.	GAUGE	T.O.P.	TOP OF PLATE (PARAPET)
ALUM.	ALUMINUM	GI.	GALVANIZE(D)	T.O.S.	TOP OF STEEL
ALT.	ALTERNATE	G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER	T.O.W.	TOP OF WALL
ANT.	ANTENNA	GLB.	(GLU-LAM) GLUE LAMINATED BEAM	TYP.	TYPICAL
APPRX.	APPROXIMATE(LY)	GPS	GLOBAL POSITIONING SYSTEM	U.G.	UNDER GROUND
ARCH.	ARCHITECT(URAL)	GRND.	GROUND	U.L.	UNDERWRITERS LABORATORY
AWG.	AMERICAN WIRE GAUGE	HDR.	HEADER	U.N.O.	UNLESS NOTED OTHERWISE
BLDG.	BUILDING	HGR.	HANGER	V.I.F.	VERIFY IN FIELD
BLK.	BLOCK	HT.	HEIGHT	W	WIDE (WIDTH)
BLKG.	BLOCKING	IG.	ISOLATED COPPER GROUND BUS	W/	WITH
BM.	BEAM	IN (')	INTERIOR	WD.	WOOD
B.N.	BOUNDARY NAILING	INT.	INTERIOR	W.P.	WEATHERPROOF
BTCN.	BARE TINNED COPPER WIRE	LB.(#)	LAG BOLTS	WT.	WEIGHT
B.O.F.	BOTTOM OF FOOTING	L.B.	LAG BOLTS	C	CENTERLINE
B/U	BACK-UP CABINET	L.F.	LINEAR FEET (FOOT)	P	PLATE, PROPERTY LINE
CAB.	CABINET	L.	LONG(ITUDINAL)		
CANT.	CANTILEVER(ED)	MAS.	MASONRY		
C.I.P.	CAST IN PLACE	MAX.	MAXIMUM		
CLG.	CEILING	M.B.	MACHINE BOLT		
CLR.	CLEAR	MECH.	MECHANICAL		
COL.	COLUMN	MFR.	MANUFACTURER		
CONC.	CONCRETE	MIN.	MINIMUM		
CONN.	CONNECTION(OR)	MISC.	MISCELLANEOUS		
CONST.	CONSTRUCTION	MTL.	METAL		
CONT.	CONTINUOUS	(N)	NEW		
Ø	PENNY (NAILS)	NO.(#)	NUMBER		
DBL.	DOUBLE	N.T.S.	NOT TO SCALE		
DEPT.	DEPARTMENT	O.C.	ON CENTER		
D.F.	DOUGLAS FIR	OPENG.	OPENING		
DIA.	DIAMETER	P/C	PRECAST CONCRETE		
DIAG.	DIAGONAL	P.CS	PERSONAL COMMUNICATION SERVICES		
DIM.	DIMENSION	PLY.	PLYWOOD		
DWG.	DRAWING(S)	PPC	POWER PROTECTION CABINET		
DWL.	DOWEL(S)	PRC	PRIMARY RADIO CABINET		
EA.	EACH	P.S.F.	POUNDS PER SQUARE FOOT		
EL.	ELEVATION	P.S.I.	POUNDS PER SQUARE INCH		
ELEC.	ELECTRICAL	P.T.	PRESSURE TREATED		
ELEV.	ELEVATOR	PWR.	POWER (CABINET)		
EMT.	ELECTRICAL METALLIC TUBING	QTY.	QUANTITY		
E.N.	EDGE NAIL	RAD.(R)	RADIUS		
ENG.	ENGINEER	REF.	REFERENCE		
EQ.	EQUAL	REINF.	REINFORCEMENT(ING)		
EXP.	EXPANSION	REQ'D/	REQUIRED		
EXST.(E)	EXISTING	RGS.	RIGID GALVANIZED STEEL		
EXT.	EXTERIOR	SCH.	SCHEDULE		
FAB.	FABRICATION(OR)	SHT.	SHEET		
F.F.	FINISH FLOOR	SIM.	SIMILAR		
F.G.	FINISH GRADE	SPEC.	SPECIFICATIONS		
FIN.	FINISH(ED)	SQ.	SQUARE		
FLR.	FLOOR	S.S.	STAINLESS STEEL		
FDNL.	FOUNDATION	STD.	STANDARD		
F.O.C.	FACE OF CONCRETE	STL.	STEEL		
F.O.M.	FACE OF MASONRY	STRUC.	STRUCTURAL		
F.O.S.	FACE OF STUD	TEMP.	TEMPORARY		

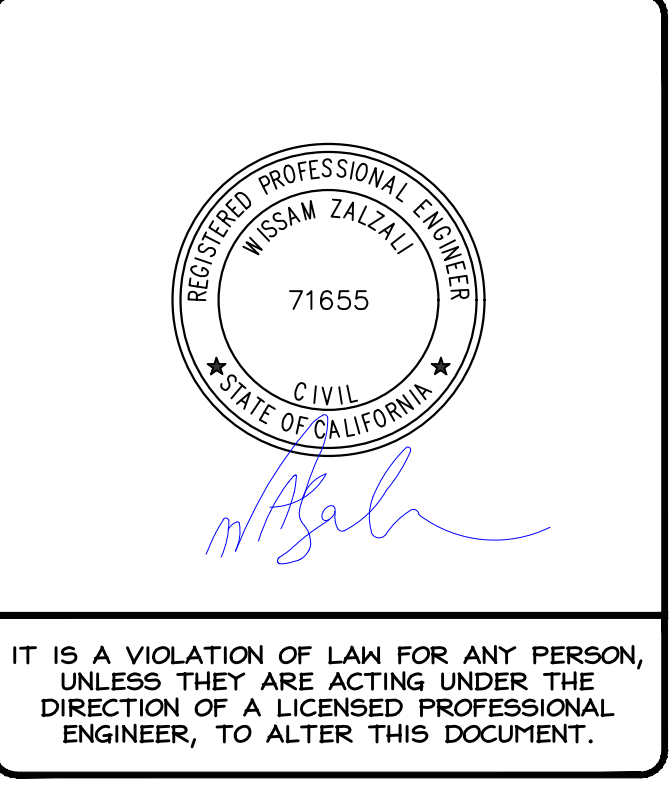
SYMBOLS LEGEND:

	BLDG. SECTION		GROUT OR PLASTER
	DOOR SYMBOL		(E) BRICK
	WINDOW SYMBOL		(E) MASONRY
	TILT-UP PANEL MARK		EARTH
	GRID/COLUMN LINE		SAND
	KEYNOTE, DIMENSION ITEM		PLYWOOD
	KEYNOTE, CONSTRUCTION ITEM		SAND
	WALL TYPE MARK		MATCH LINE
OFFICE	ROOM NAME		GROUND CONDUCTOR
	ROOM NUMBER		OVERHEAD SERVICE CONDUCTORS
			POWER CONDUIT
			WOOD FENCE



PROJECT ID:	PASO ROBLES AIRPORT
DRAWN BY:	LS
CHECKED BY:	SS

REV	DATE	DESCRIPTION	
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS



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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1



PROJECT ID: PASO ROBLES AIRPORT

DRAWN BY: LS

CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
INSPECTION NOTES

SHEET NUMBER
GN-2

SUMMARY OF SPECIAL INSPECTION		
NO.	DESCRIPTION OF TYPE OF INSPECTION REQ'D, LOCATION, REMARKS, ETC.	INSPECTION TYPE
1.	REQUIRED INSPECTIONS FOR SOIL/FOUNDATION:	
A.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND THAT THE MATERIALS BELOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	PERIODIC
B.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	PERIODIC
C.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	CONTINUOUS
D.	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT IT HAS BEEN PREPARED PROPERLY	PERIODIC
2.	REQUIRED INSPECTIONS FOR CAST-IN-PLACE DEEP FOUNDATION ELEMENTS	
A.	INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	CONTINUOUS
B.	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	CONTINUOUS
3.	REQUIRED INSPECTIONS FOR CONCRETE CONSTRUCTION	
A.	INSPECT REINFORCEMENT AND VERIFY PLACEMENT	PERIODIC
B.	INSPECT ANCHORS CAST IN CONCRETE - PLUMBNESS, ORIENTATION, TOP AND BOTTOM TEMPLATES ARE INSTALLED, AND THAT THE MINIMUM EMBEDMENT SPECIFIED BY THE FOUNDATION DESIGNER IS MET.	PERIODIC
C.	VERIFY USE OF REQUIRED DESIGN MIX AND COMPLIANCE WITH ACI 318-19	PERIODIC
D.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS
E.	INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS
F.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	PERIODIC
G.	INSPECT FORMWORK FOR PROPER SHAPE, LOCATION AND DIMENSIONS.	PERIODIC
4.	BOLTING:	
A.	ANCHOR BOLTS SHALL BE INSTALLED WITH A LOCKING MECHANISM AND BE TIGHTENED TO A "SNUG TIGHT" CONDITION PER AISC	PERIODIC
B.	ALL HIGH STRENGTH BOLTS, A325, SHALL BE TIGHTENED TO THE TURN OF NUT METHOD AS DEFINED BY AISC	PERIODIC
5.	FIELD WELDING:	
A.	NO FIELD WELDING SHALL BE PERMITTED EXCEPT WHERE SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS	</= 5/16, PERIODIC > 5/16, CONTINUOUS
6.	SHOP WELDING:	
A.	ALL SHOP WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY AN APPROVED FABRICATOR'S SHOP PER 2022 CBC SECTION 1704.2.5	PROVIDE CERTS.
B.	ALL WELDED CONNECTIONS SHALL CONFORM WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1	N/A
C.	WELD ELECTRODES SHALL BE LOW HYDROGEN E70XX U.N.O.	N/A
D.	VISUAL INSPECTION OF ALL WELDS SHALL BE PERFORMED BEFORE CALVANIZING.	INSPECT AND REPORT
E.	IF A WELD IS IN QUESTION PER THE VISUAL INSPECTION THEN IT SHALL BE TESTED USING AN APPROPRIATE TEST, I.E. DIE PENETRATION, MAGNETIC PARTICLE, U.T., ETC.	INSPECT AND REPORT

- NOTES:**
- PRE ESR 4266 SECTION 5.14 AND 5.15 ZINC COATED CARBON STEEL IS LIMITED TO DRY INTERIOR LOCATIONS, PLEASE USE STAINLESS STEEL ANCHOR.
 - PERIODIC SPECIAL INSPECTION IS REQUIRED FOR POST INSTALLED ANCHORS.
 - SPECIAL INSPECTION FOR HIGH-STRENGTHEN FIELD BOLTING PER AISC 360 TABLES N5.6-1, N5.6-2, N5.6-3 AND AISC 341 TABLES J7-1, J7-2, AND J7-3
 - SPECIAL INSPECTION FOR FIELD WELDING PER AISC 360 TABLES N5.4-1, N5.4-2, N5.4-3 AND AISC 341 TABLES J6-1, J6-2, AND J6-3
 - PER TIA-222-H, §4.9.2, NUT LOCKING DEVICES SHALL BE INSTALLED ON ALL BOLTS USED TO CONNECT LOAD CARRYING MEMBERS.
 - ALL BOLTS, INCLUDING U-BOLTS SHALL BE TIGHTENED TO SNUG-TIGHT CONDITION PER AISC 360-16 REQUIREMENTS.

**Table N5.4-1
Inspection Tasks Prior to Welding**

Inspection Tasks Prior to Welding	QC	QA
Welder qualification records and continuity records	P	O
WPS available	P	P
Manufacturer certifications for welding consumables available	P	P
Material identification (type/grade)	O	O
Welder identification system <ul style="list-style-type: none"> Fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Die stamping of members subjected to fatigue shall be prohibited unless approved by the engineer of record. 	O	O
Fit-up of groove welds (including joint geometry) <ul style="list-style-type: none"> Joint preparations Dimensions (alignment, root opening, root face, bevel) Cleanliness (condition of steel surfaces) Tacking (tack weld quality and location) Backing type and fit (if applicable) 	O	O
Fit-up of CJP groove welds of HSS T-, Y-, and K-connections without backing (including joint geometry) <ul style="list-style-type: none"> Joint preparations Dimensions (alignment, root opening, root face, bevel) Cleanliness (condition of steel surfaces) Tacking (tack weld quality and location) 	P	O
Configuration and finish of access holes	O	O
Fit-up of fillet welds <ul style="list-style-type: none"> Dimensions (alignment, gaps at root) Cleanliness (condition of steel surfaces) Tacking (tack weld quality and location) 	O	O
Check welding equipment	O	O

**TABLE N5.4-2
Inspection Tasks During Welding**

Inspection Tasks During Welding	QC	QA
Control and handling of welding consumables <ul style="list-style-type: none"> Packaging Exposure control 	O	O
No welding over cracked tack welds	O	O
Environmental conditions <ul style="list-style-type: none"> Wind speed within limits Precipitation and temperature 	O	O
WPS followed <ul style="list-style-type: none"> Settings on welding equipment Travel speed Selected welding materials Shielding gas type/flow rate Preheat applied Interpass temperature maintained (min./max.) Proper position (F, V, H, OH) 	O	O
Welding techniques <ul style="list-style-type: none"> Interpass and final cleaning Each pass within profile limitations Each pass meets quality requirements 	O	O
Placement and installation of steel headed stud anchors	P	P

**TABLE N5.4-3
Inspection Tasks After Welding**

Inspection Tasks After Welding	QC	QA
Welds cleaned	O	O
Size, length, and location of welds	P	P
Welds meet visual acceptance criteria <ul style="list-style-type: none"> Crack prohibition Weld/base-metal fusion Crater cross section Weld profiles Weld size Undercut Porosity 	P	P
Arc strikes	P	P
k-area ⁽¹⁾	P	P
Weld access holes in rolled heavy shapes and built-up heavy shapes ⁽²⁾	P	P
Backing removed and weld tabs removed (if required)	P	P
Repair activities	P	P
Document acceptance or rejection of welded joint or member ⁽³⁾	P	P
No prohibited welds have been added without the approval of the engineer of record	O	O

⁽¹⁾When welding of doubler plates, continuity plates, or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld.
⁽²⁾After rolled heavy shapes (see Section A3.1c) and built-up heavy shapes (see Section A3.1e) are welded, visually inspect the weld access hole for cracks.
⁽³⁾Die stamping of members subjected to fatigue shall be prohibited unless approved by the engineer of record.

**TABLE N5.6-1
Inspection Tasks Prior to Bolting**

Inspection Tasks Prior to Bolting	QC	QA
Manufacturer's certifications available for fastener materials	O	P
Fasteners marked in accordance with ASTM requirements	O	O
Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O
Correct bolting procedure selected for joint detail	O	O
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	O	O
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	P	O
Protected storage provided for bolts, nuts, washers, and other fastener components	O	O

**TABLE J7.1
Documentation of Visual Inspection After Welding**

Documentation of Visual Inspection After Welding	QC		QA	
	Task	Doc.	Task	Doc.
Welds meet visual acceptance criteria <ul style="list-style-type: none"> Crack prohibition Weld/base-metal fusion Crater cross section Weld profiles and size Undercut Porosity 	P	D	P	D
k-area ⁽¹⁾	P	D	P	D
Placement of reinforcing or contouring fillet welds (if required)	P	D	P	D
Backing removed, weld tabs removed and finished, and fillet welds added (if required)	P	D	P	D

⁽¹⁾ When welding of doubler plates, continuity plates, or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld. The visual inspection shall be performed no sooner than 48 hours following completion of the welding.
 Note:
 Doc. = documentation

**TABLE J10.1
Inspection of Composite Structures Prior to Concrete Placement**

Inspection of Composite Structures Prior to Concrete Placement	QC		QA	
	Task	Doc.	Task	Doc.
Material identification of reinforcing steel (type/grade)	O	-	O	-
If welded, determination of carbon equivalent for reinforcing steel other than ASTM A706/A706M	O	-	O	-
Proper reinforcing steel size, spacing, and orientation	O	-	O	-
Reinforcing steel has not been rebent in the field	O	-	O	-
Reinforcing steel has been tied and supported as required	O	-	O	-
Required reinforcing steel clearances have been provided	O	-	O	-
Composite member has required size	O	-	O	-

Note:
 Doc. = documentation
 - = indicates no documentation is required

**TABLE J10.2
Inspection of Composite Structures During Concrete Placement**

Inspection of Composite Structures During Concrete Placement	QC		QA	
	Task	Doc.	Task	Doc.
Concrete: Material identification (mix design, compressive strength, maximum large aggregate size, maximum slump)	O	D	O	D
Limits on water added at the truck or pump	O	D	O	D
Proper placement techniques to limit segregation	O	-	O	-

Note:
 Doc. = documentation
 - = indicates no documentation is required

**TABLE J11.1
Inspection of H-Piles**

Inspection of Piling	QC		QA	
	Task	Doc.	Task	Doc.
Protected zone—no holes or unapproved attachments made by the responsible contractor, as applicable	P	D	P	D

Note:
 Doc. = documentation

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2770 SHADELANDS DRIVE
BUILDING II
WALNUT CREEK, CA 94598

SEQUOIA
DEPLOYMENT SERVICES, INC.

1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2283

ALLSTATES
ENGINEERING & SURVEYING

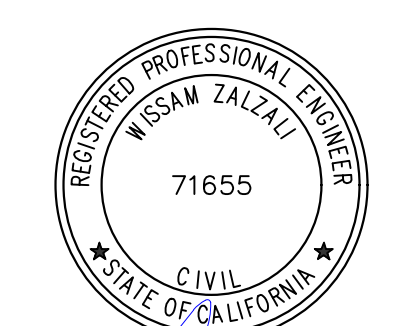
23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT

DRAWN BY: LS

CHECKED BY: SS

REV	DATE	DESCRIPTION	
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS



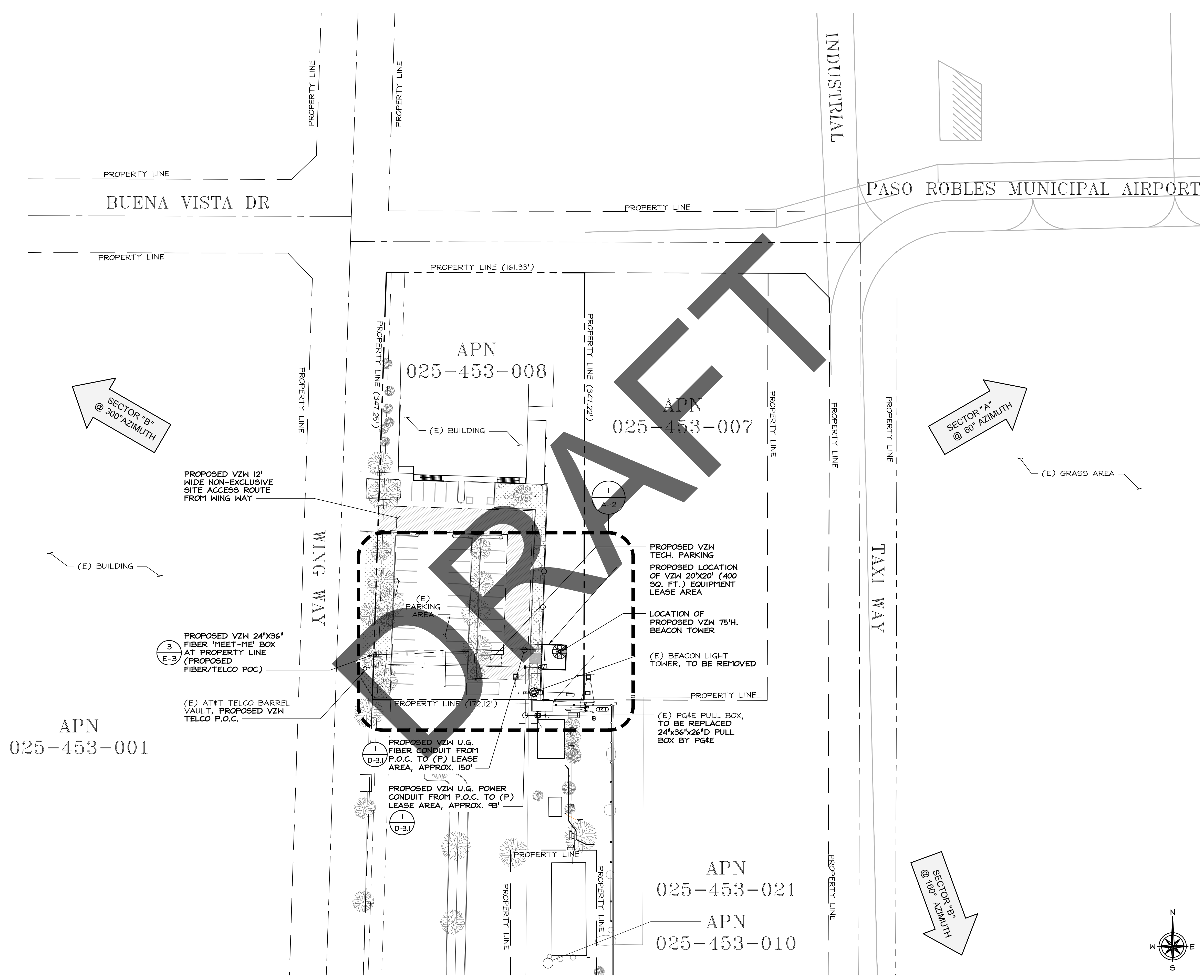
N. Zalzala

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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
A-1



OVERALL SITE PLAN

24"x36" SCALE: 1" = 40'-0"
11"x17" SCALE: 1" = 80'-0"

1

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2770 SHADELANDS DRIVE
BUILDING 11
WALNUT CREEK, CA 94598

SEQUOIA
DEPLOYMENT SERVICES, INC.

1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2283

ALLSTATES
ENGINEERING & SURVEYING

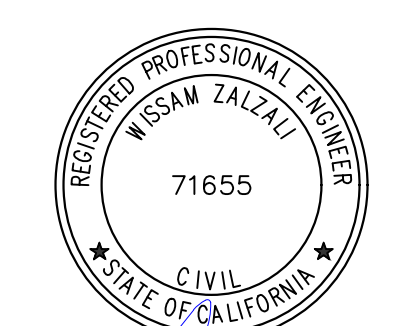
23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

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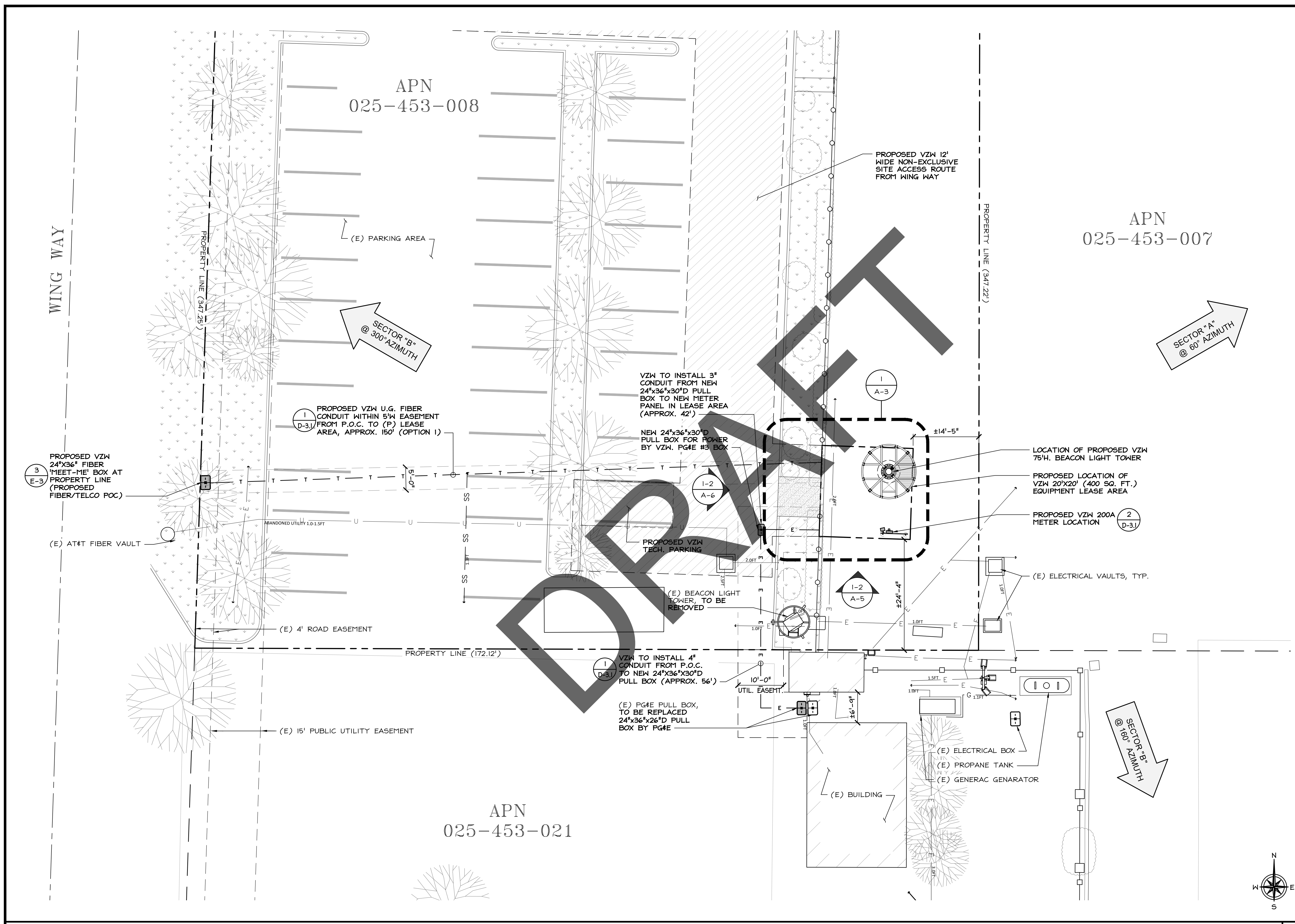


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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
ENLARGED EXISTING
SITE PLAN

SHEET NUMBER
A-2



ENLARGED EXISTING SITE PLAN

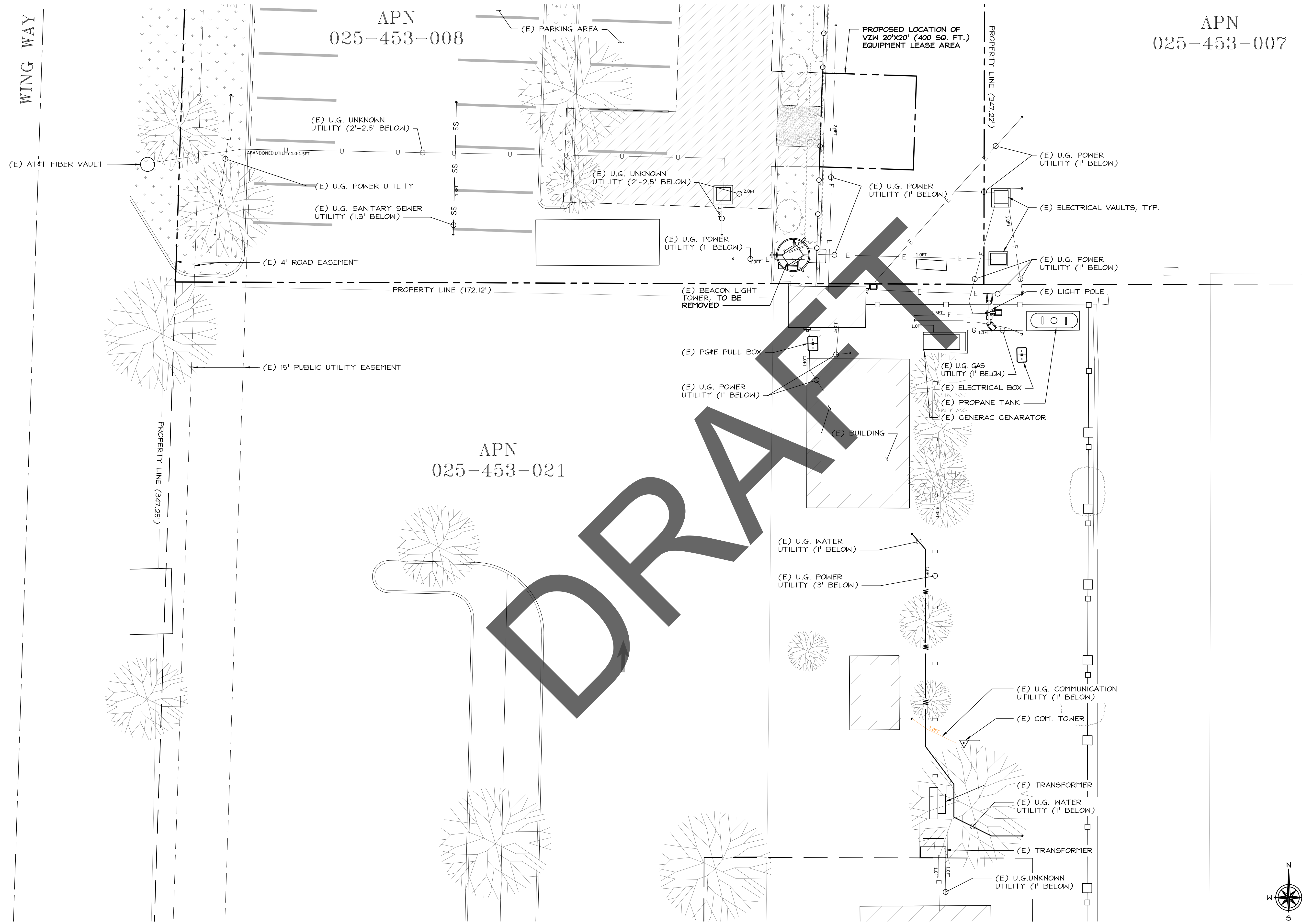
24"x36" SCALE: 1" = 10'-0"
11"x17" SCALE: 1" = 20'-0"
10' 5' 0' 10' 1

WING WAY

APN
025-453-008

APN
025-453-007

APN
025-453-021



DRAFT

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 2770 SHADELANDS DRIVE
 BUILDING 11
 WALNUT CREEK, CA 94598

SEQUOIA
 DEPLOYMENT SERVICES, INC.
 1 SPECTRUM POINTE DRIVE, SUITE 130
 LAKE FOREST, CA 92630-2283

ALLSTATES
 ENGINEERING & SURVEYING
 23675 BIRTCHE DRIVE
 LAKE FOREST, CA 92630

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 CHECKED BY: SS

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REGISTERED PROFESSIONAL ENGINEER
 MESSAM ZALZAL
 71655
 CIVIL
 STATE OF CALIFORNIA
M. Zalzal

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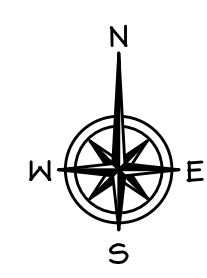
PASO ROBLES AIRPORT
 BEACON LIGHT TOWER:
 4960 WING WAY
 PASO ROBLES, CA 93446

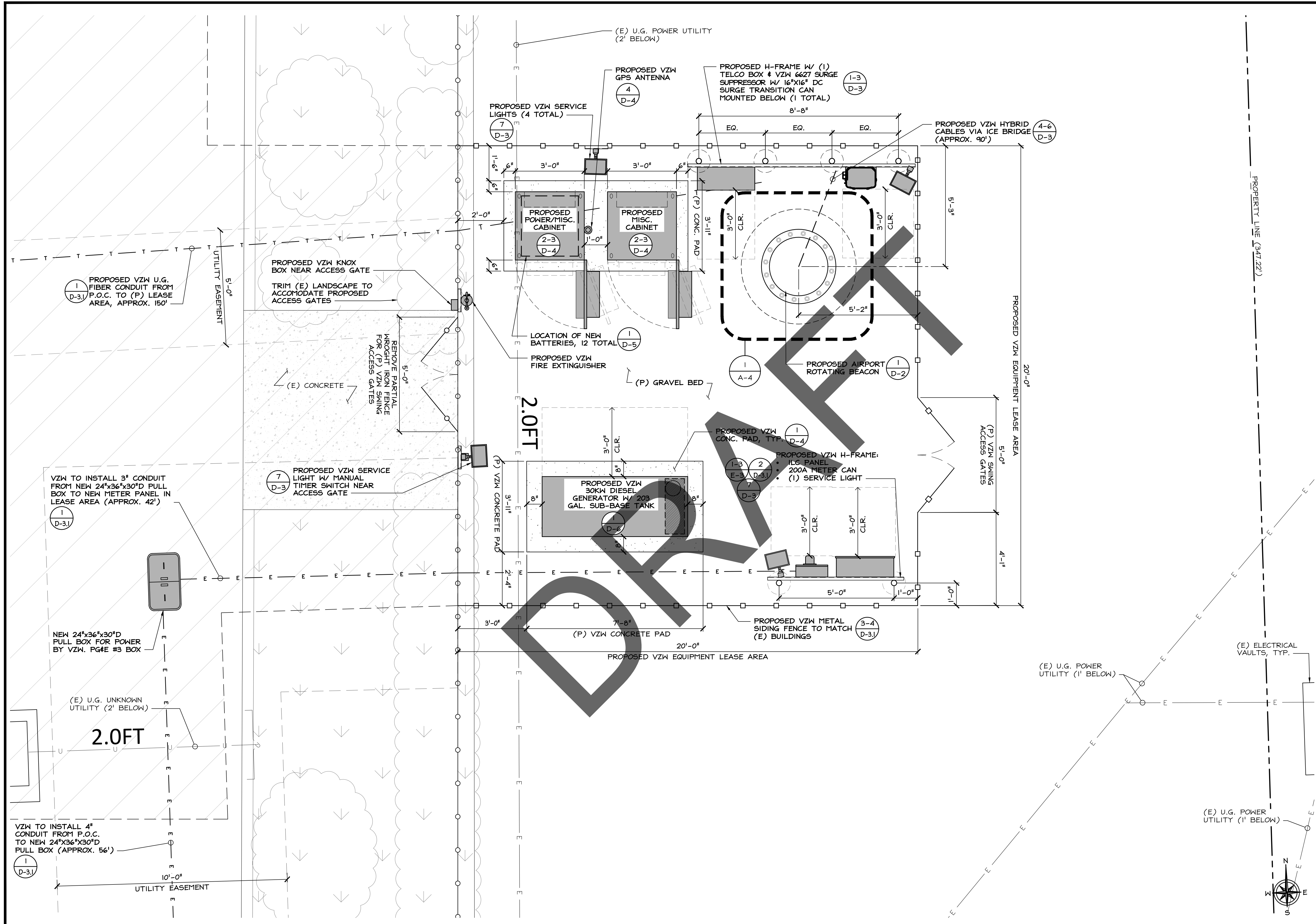
SHEET TITLE
 EXISTING UNDERGROUND
 UTILITY PLAN

SHEET NUMBER
A-2.1

EXISTING UNDERGROUND UTILITY PLAN

24"x36" SCALE: 1" = 10'-0"
 11"x17" SCALE: 1" = 20'-0"
 10' 5' 0' 10'





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2770 SHADELANDS DRIVE
BUILDING 11
WALNUT CREEK, CA 94598

SEQUOIA
DEPLOYMENT SERVICES, INC.

1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2283

ALLSTATES
ENGINEERING & SURVEYING

23675 BIRTCHE DRIVE
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PROJECT ID: PASO ROBLES AIRPORT
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REGISTERED PROFESSIONAL ENGINEER
MUSAW ZALZAL
71655
CIVIL
STATE OF CALIFORNIA

M. Zalzal

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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
EQUIPMENT LAYOUT PLAN

SHEET NUMBER
A-3

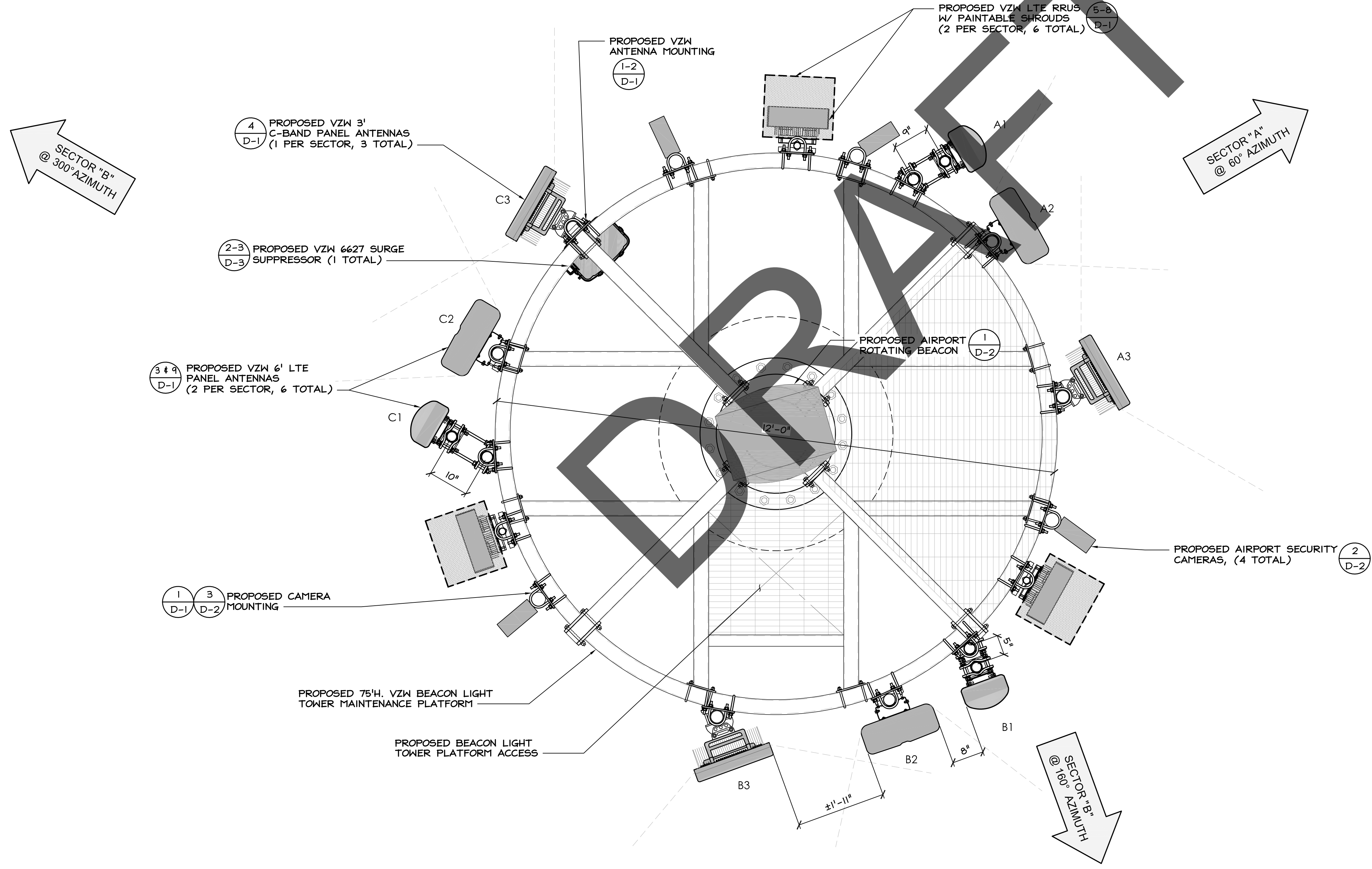
EQUIPMENT LAYOUT PLAN

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"
2' 1' 0' 2' 1

NOTES:

- NEW VERIZON WIRELESS ANTENNAS AND ALL TOWER MOUNTED EQUIPMENT SHALL BE PAINTED OR WRAPPED TO MATCH AVIATION COLORS IN NON-REFLECTIVE PAINT.
- POLE AND EQUIPMENT TO BE PAINTED IN AVIATION COLORS IN EQUAL PARTS

NEW ANTENNA AND TRANSMISSION CABLE REQUIREMENTS													
SECTOR		RAD CENTER	TECHNOLOGY	ANTENNA			TRANSMISSION LINES (LENGTH FT. +/-)			TRANSMISSION LINES (LENGTH FT. +/-)			
				MFR./MODEL #	COUNT	SIZE	AZIMUTH	CABLE LENGTH	COAX SIZE	TYPE	RRU MAKE / MODEL	RRU COUNT	
ALPHA	A1	NEW	72'-0"	LTE	COMMSCOPE NHH-65B-R2B	1	6'-0"	60°	±95'	5'	(2) 6x12 HYBRID TRUNKS	ERICSSON 4490	1
	A2	NEW	72'-0"	LTE	COMMSCOPE NNHH4-65B-R6	1	6'-0"	60°	±95'	5'		ERICSSON 4890	1
	A3	NEW	73'-8"	C-BAND	ERICSSON AIR6419	1	3'-0"	60°	±95'	-		-	-
BETA	B1	NEW	72'-0"	LTE	COMMSCOPE NHH-65B-R2B	1	6'-0"	160°	±95'	5'		ERICSSON 4490	1
	B2	NEW	72'-0"	LTE	COMMSCOPE NNHH4-65B-R6	1	6'-0"	160°	±95'	5'		ERICSSON 4890	1
	B3	NEW	73'-8"	C-BAND	ERICSSON AIR6419	1	3'-0"	160°	±95'	-		-	-
GAMMA	C1	NEW	72'-0"	LTE	COMMSCOPE NHH-65B-R2B	1	6'-0"	300°	±95'	5'	ERICSSON 4490	1	
	C2	NEW	72'-0"	LTE	COMMSCOPE NNHH4-65B-R6	1	6'-0"	300°	±95'	5'	ERICSSON 4890	1	
	C3	NEW	73'-8"	C-BAND	ERICSSON AIR6419	1	3'-0"	300°	±95'	-	-	-	



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2770 SHADELANDS DRIVE
BUILDING 11
WALNUT CREEK, CA 94598

SEQUOIA
DEPLOYMENT SERVICES, INC.

1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2283

ALLSTATES
ENGINEERING & SURVEYING

23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT
DRAWN BY: LS
CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED TWR DWGS	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
MUSAM ZALZAL
71655
CIVIL
STATE OF CALIFORNIA

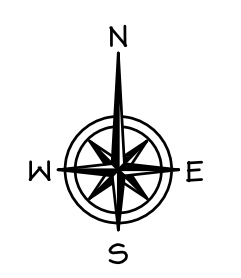
M. Zalzal

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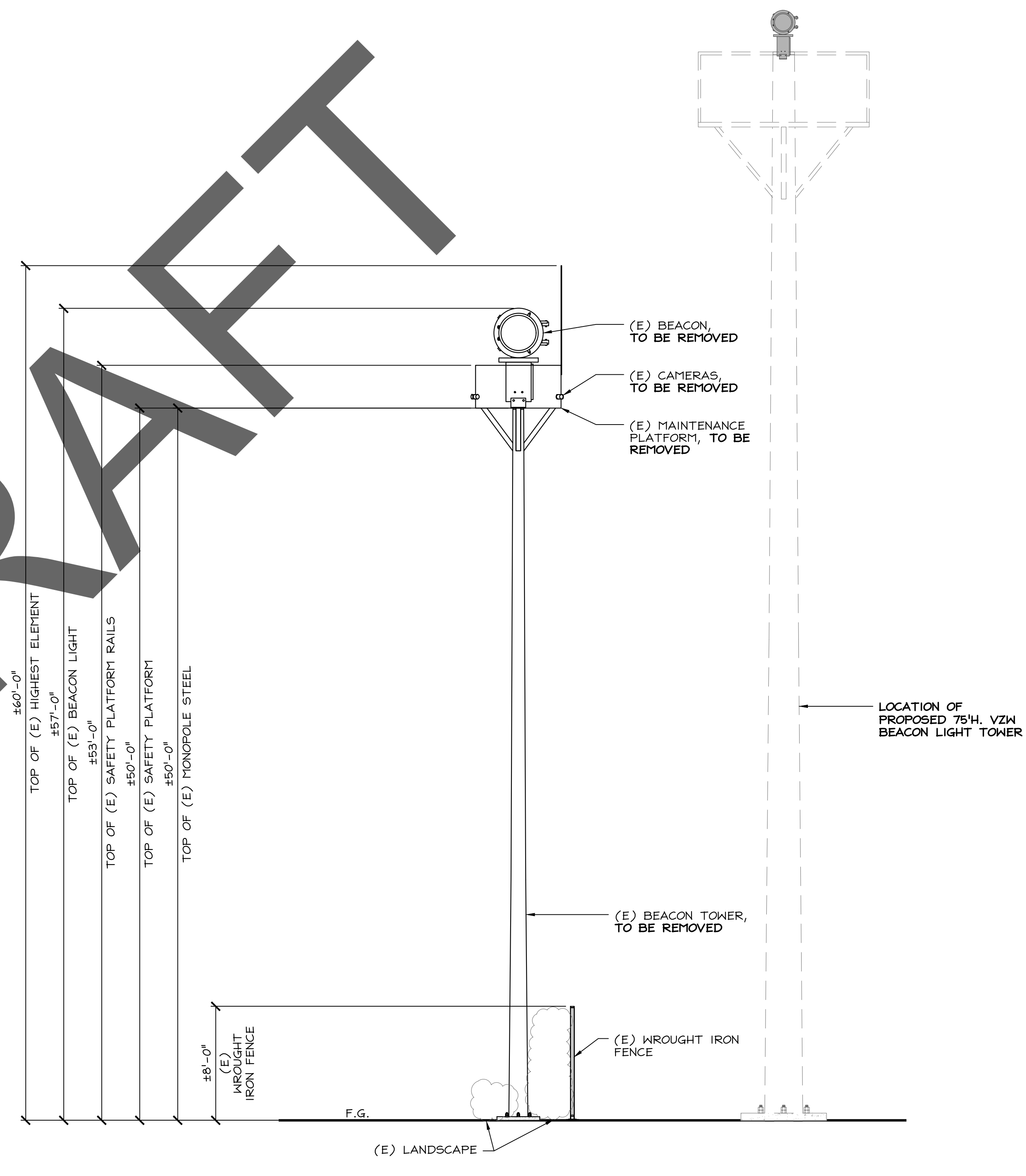
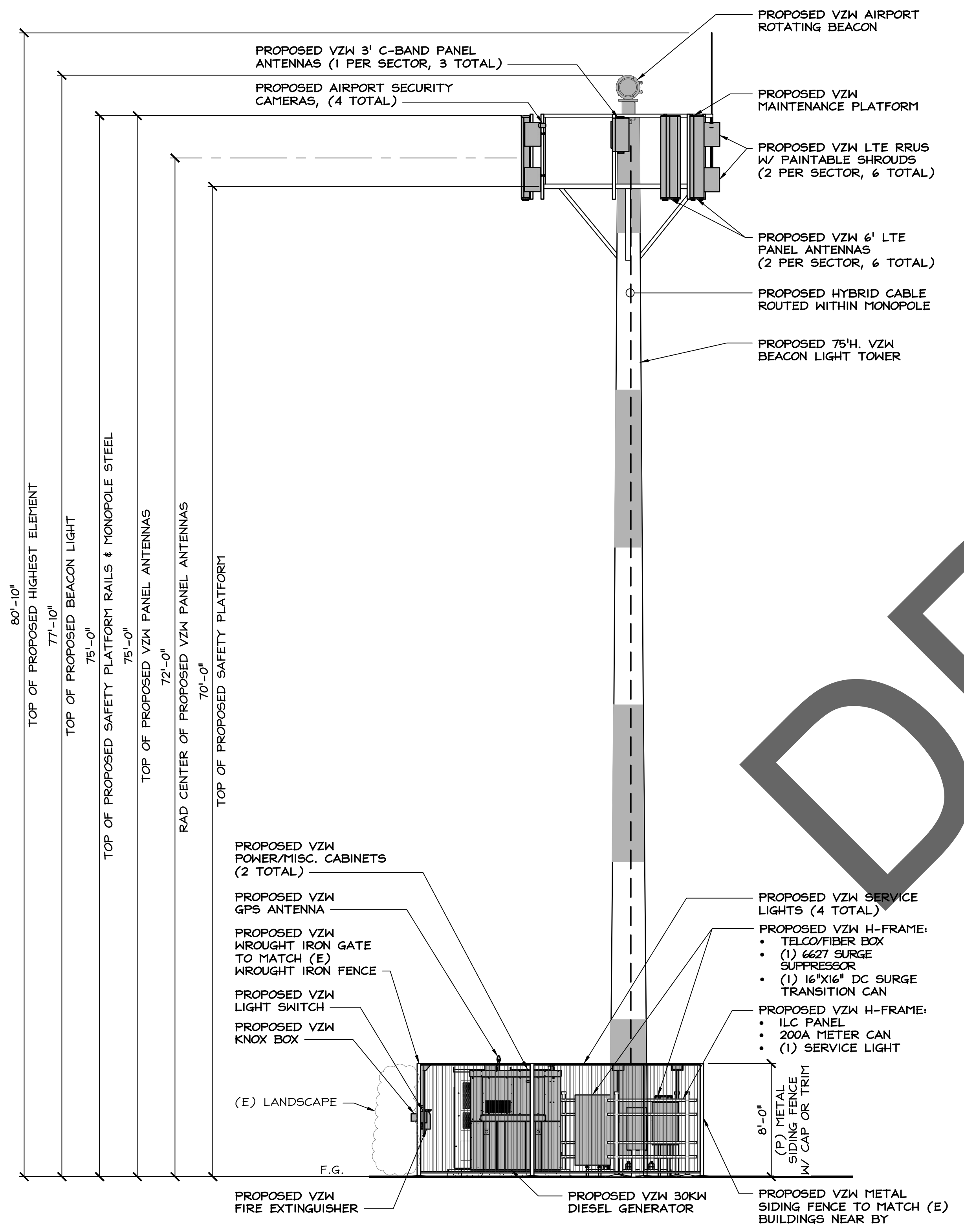
PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
ANTENNA LAYOUT PLAN

SHEET NUMBER
A-4



- NOTES:**
1. NEW VERIZON WIRELESS ANTENNAS AND ALL TOWER MOUNTED EQUIPMENT SHALL BE PAINTED OR WRAPPED TO MATCH AVIATION COLORS IN NON-REFLECTIVE PAINT.
 2. POLE AND EQUIPMENT TO BE PAINTED IN AVIATION COLORS IN EQUAL PARTS
 3. NEW PERIMETER FENCE TO MATCH GALVALUME RIBBED METAL SIDING OF 4490 WIND WAY BUILDING



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 2770 SHADELANDS DRIVE
 BUILDING 11
 WALNUT CREEK, CA 94598

SEQUOIA
 DEPLOYMENT SERVICES, INC.
 1 SPECTRUM POINTE DRIVE, SUITE 130
 LAKE FOREST, CA 92630-2283

ALLSTATES
 ENGINEERING & SURVEYING
 23675 BIRTCHE DRIVE
 LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT
 DRAWN BY: LS
 CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
 MUSAAM ZALZAL
 71655
 CIVIL
 STATE OF CALIFORNIA
M. Zalzal

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PASO ROBLES AIRPORT
 BEACON LIGHT TOWER:
 4960 WING WAY
 PASO ROBLES, CA 93446

SHEET TITLE
 ELEVATIONS

SHEET NUMBER
A-5

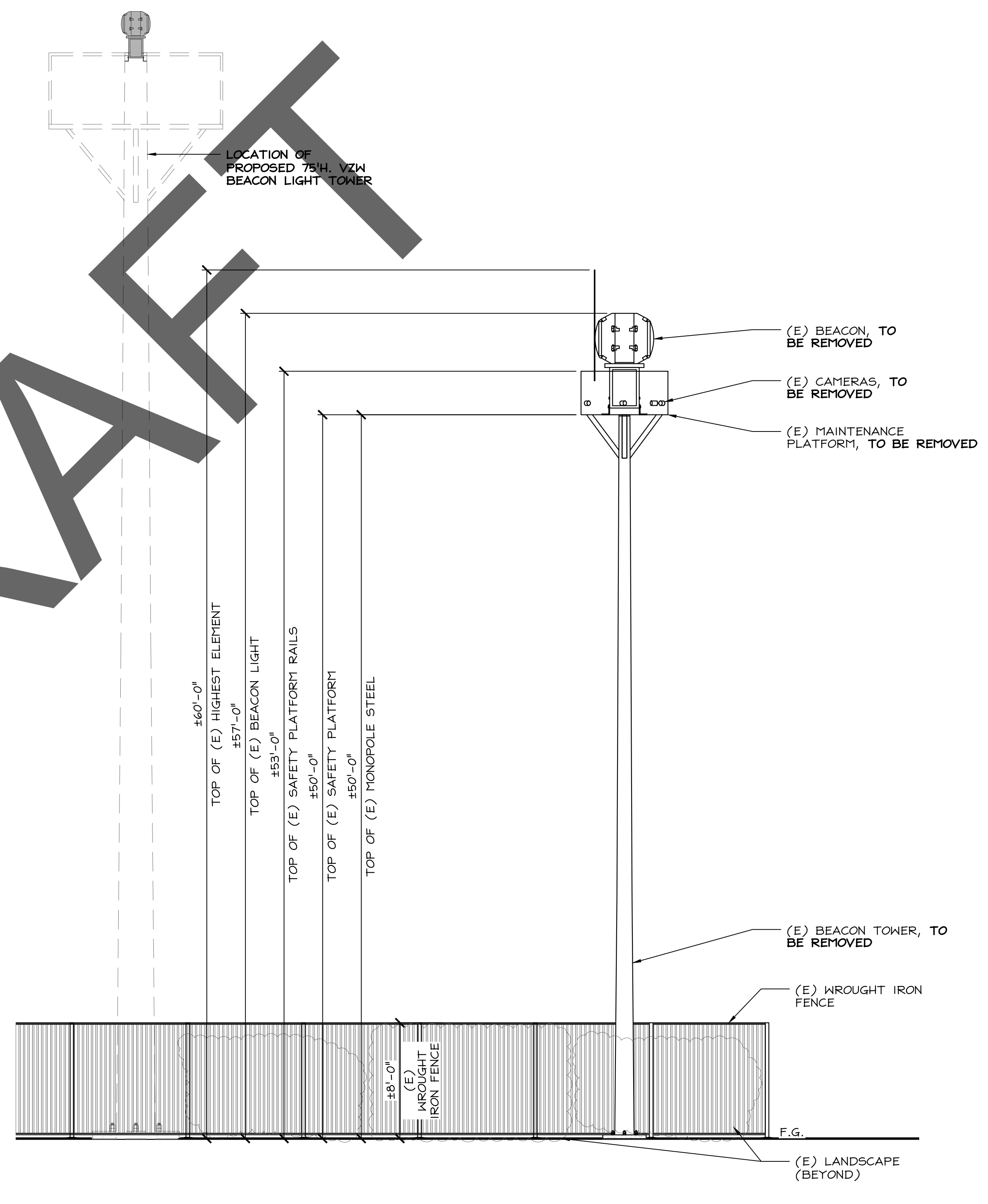
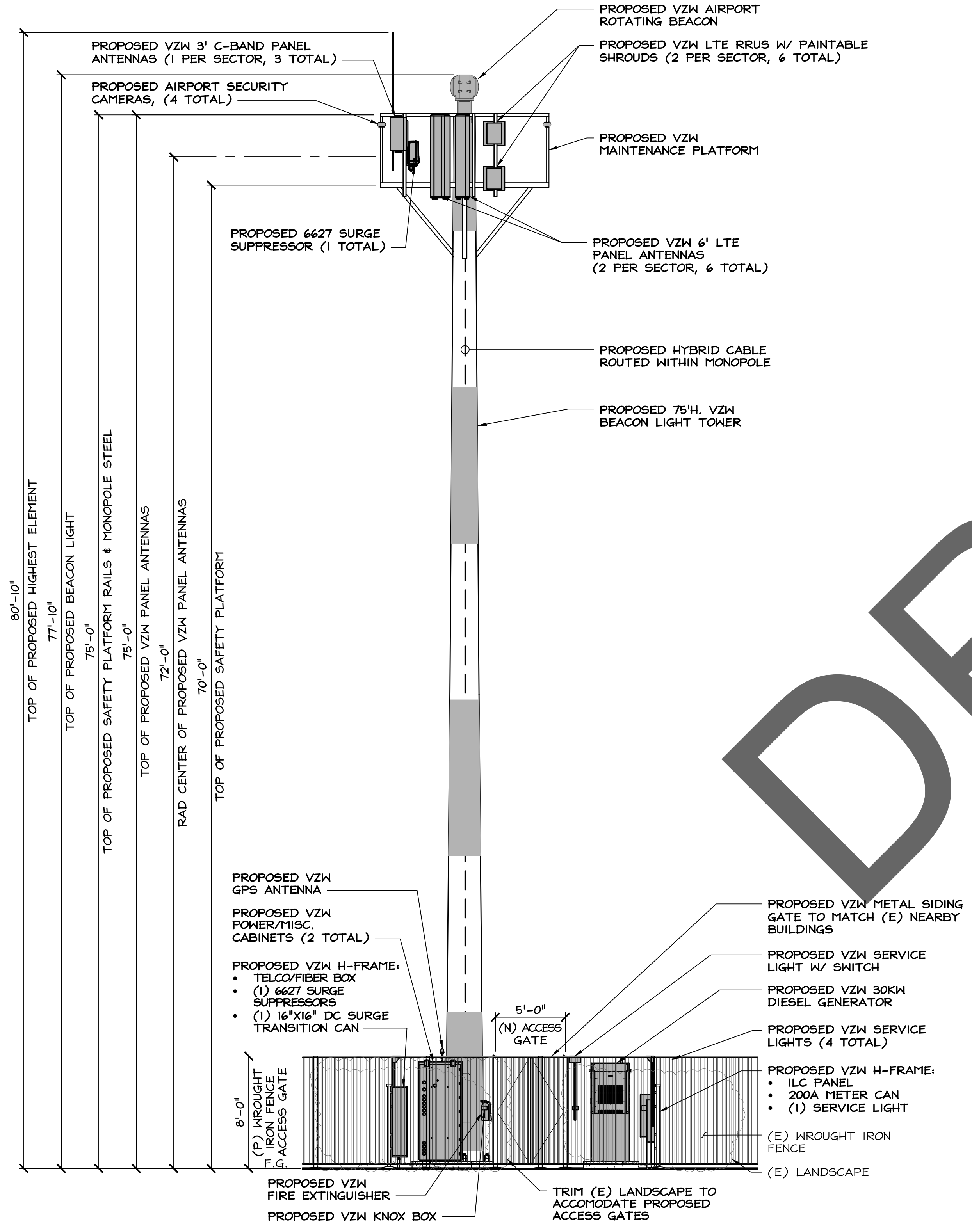
PROPOSED SOUTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
 11"x17" SCALE: 3/32" = 1'-0"

EXISTING SOUTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
 11"x17" SCALE: 3/32" = 1'-0"

- NOTES:**
1. NEW VERIZON WIRELESS ANTENNAS AND ALL TOWER MOUNTED EQUIPMENT SHALL BE PAINTED OR WRAPPED TO MATCH AVIATION COLORS IN NON-REFLECTIVE PAINT.
 2. POLE AND EQUIPMENT TO BE PAINTED IN AVIATION COLORS IN EQUAL PARTS
 3. NEW PERIMETER FENCE TO MATCH GALVALUME RIBBED METAL SIDING OF 4490 WIND WAY BUILDING



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2770 SHADELANDS DRIVE
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SEQUOIA
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1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2283

ALLSTATES
ENGINEERING & SURVEYING

23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT

DRAWN BY: LS

CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
MUSAW ZATZAL
71655
CIVIL
STATE OF CALIFORNIA

M. Zatzal

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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-6

PROPOSED WEST ELEVATION

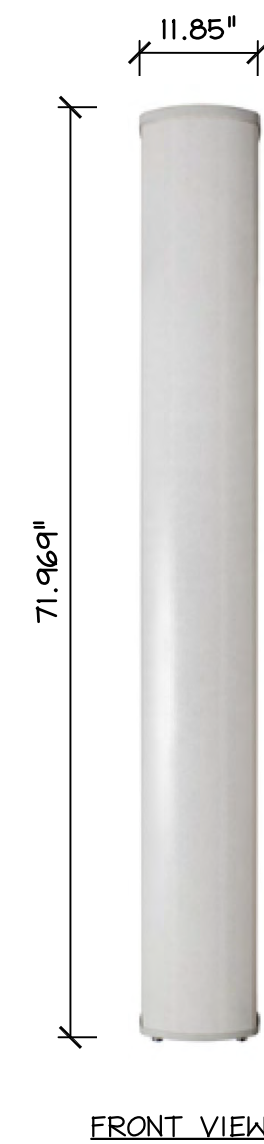
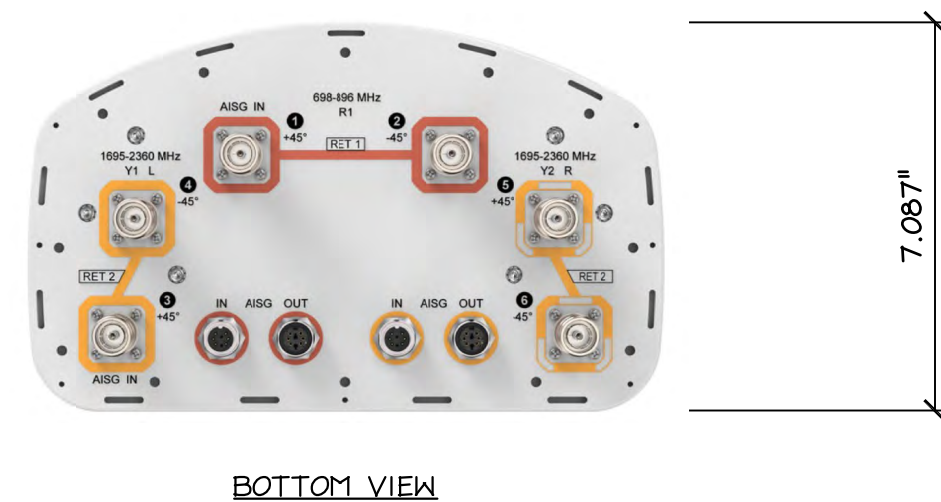
24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

EXISTING WEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

COMMSCOPE - NNH4-65B-R2B (OR APPROVED EQUAL)
6 PORT SECTOR ANTENNA, 2x698-896 MHz AND 4x1695-2360 MHz, 65° HPBW, 2X RET. BOTH HIGH BANDS SHARE THE SAME ELECTRICAL TILT.

- BAND: MULTIBAND
- PERFORMANCE NOTE: OUTDOOR USAGE
- TOTAL RF CONNECTOR: 6
- DIMENSIONS WxDxL(mm): 11.85" (301), 7.087" (180), 71.964" (1828)
- WEIGHT: (kg) 43.651 lbs (19.8)



ERICSSON RADIO 4890HP 48B2 48B66 S (OR APPROVED EQUAL):
8 RF PORTS, 4TR PER BAND (S FOR TX)

- B2: 4x60W
- B66: 4x60W
- Up to 480W in total RF power
- L, NR, NB-IoT
- 2x 2.5/4.9/9.8/10.1/24.3 Gbps CPRI/eCPRI

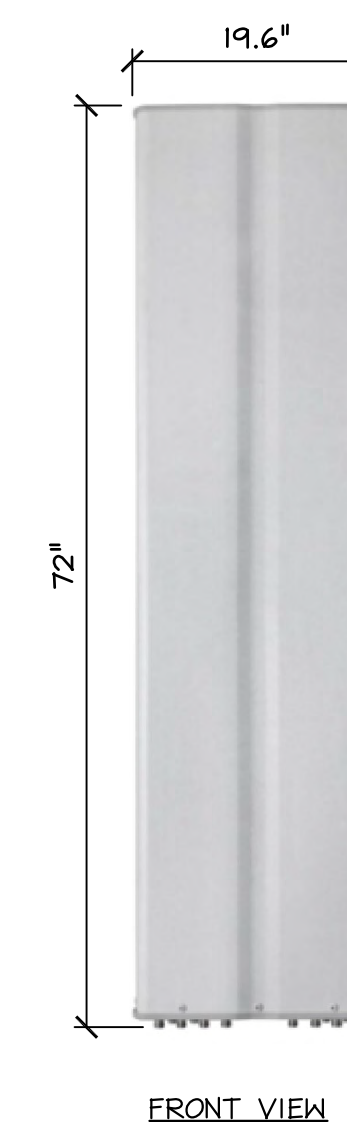
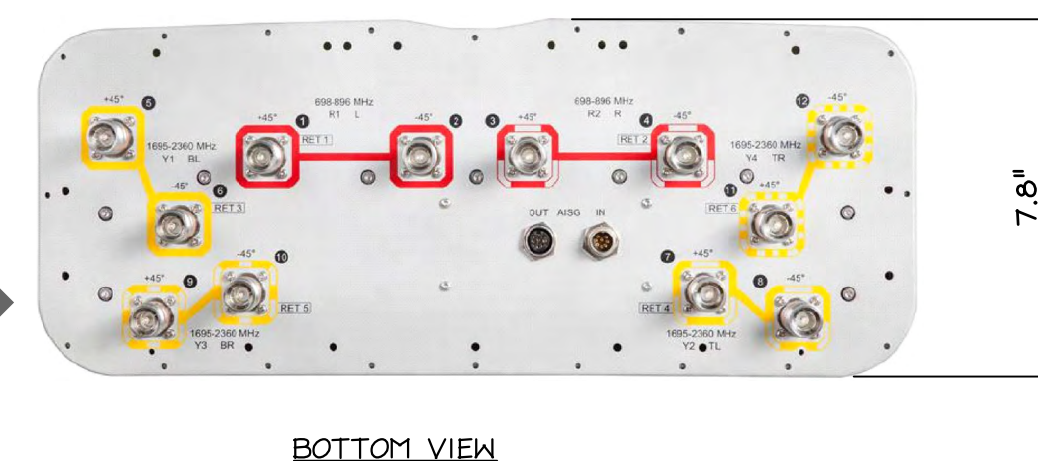
Radio 4890HP 48B2 48B66 S	Height	Width	Depth	Weight
w/ protruding items	17.5 in (444 mm)	15.2 in (384 mm)	7.0 in (176 mm)	~69.5 lbs (~31.5 Kg)
w/ protruding items	20.6 in (522 mm)	15.7 in (397 mm)	7.2 in (182 mm)	

- 48 VDC 2-wire (single DC-connector),
- AISG v3.0 TMA & RET support via RS-485 or RF connectors
- Type 4.3-10 RF + connectors
- 2 external alarm
- Convectional cooling
- Optional fan for increased site flexibility
- IP 65, -40 to +55°C



COMMSCOPE - NNH4-65B-R6 (OR APPROVED EQUAL)
12 PORT SECTOR ANTENNA, 4x698-896 MHz, 8x1695-2360 MHz, 65° HPBW, 6X RET

- BAND: MULTIBAND
- PERFORMANCE NOTE: OUTDOOR USAGE
- TOTAL RF CONNECTOR: 12
- DIMENSIONS WxDxL(mm): 19.6" (498), 7.8" (197), 72" (1828)
- WEIGHT(kg): 82 lbs (37.2)



NEW LTE PANEL ANTENNA

24"x36" SCALE: NTS
11"x17" SCALE: NTS

RRU SPECIFICATION

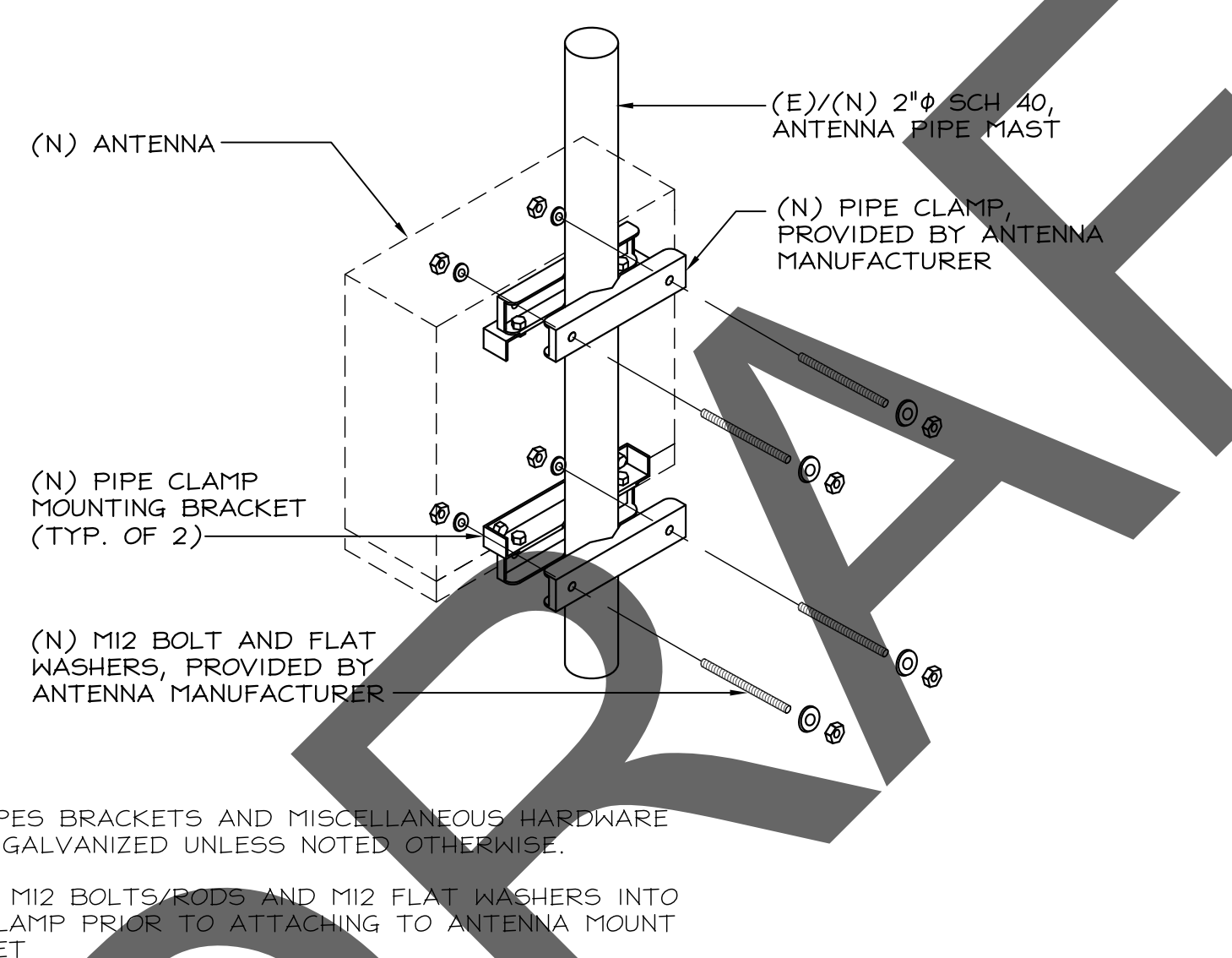
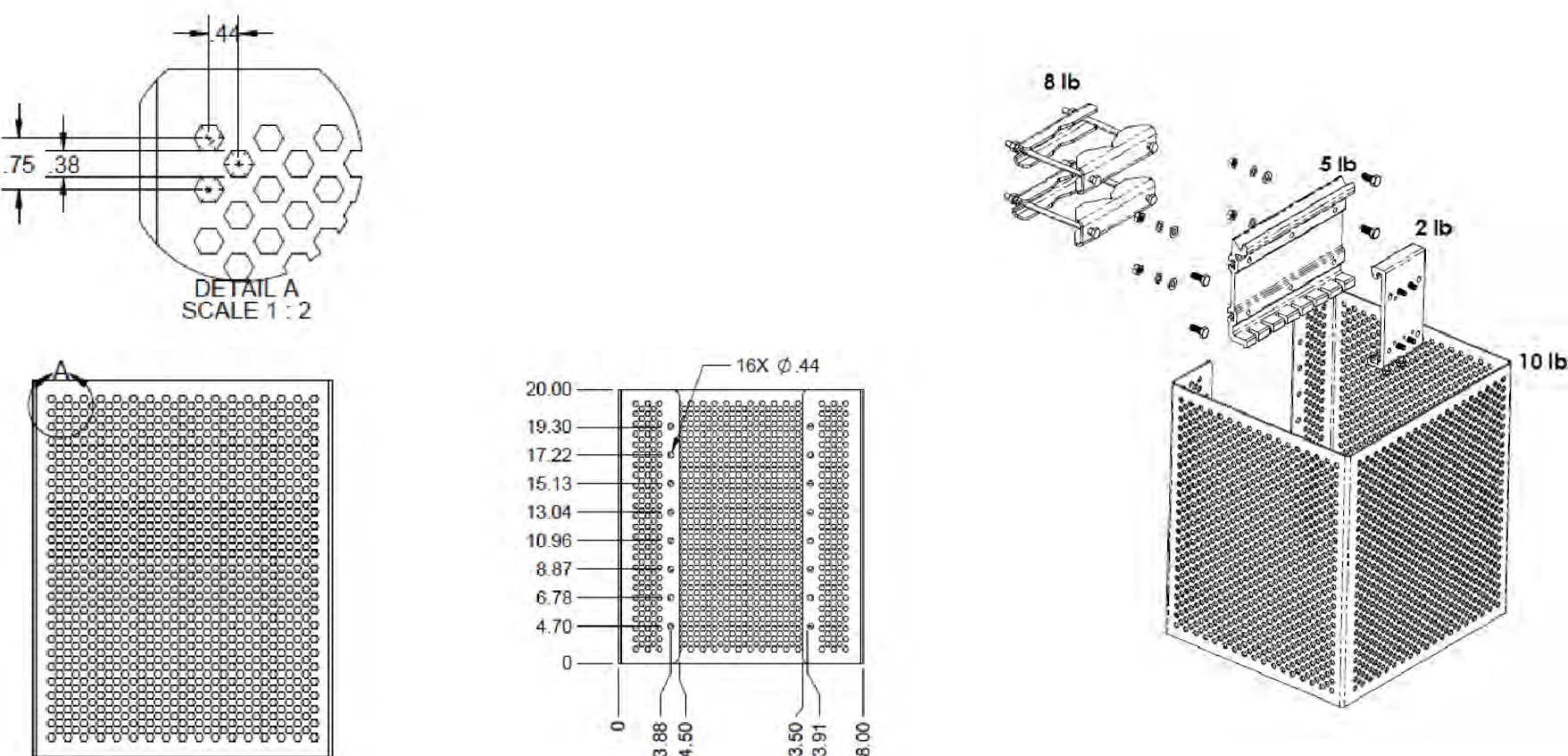
24"x36" SCALE: NTS
11"x17" SCALE: NTS

NEW LTE PANEL ANTENNA

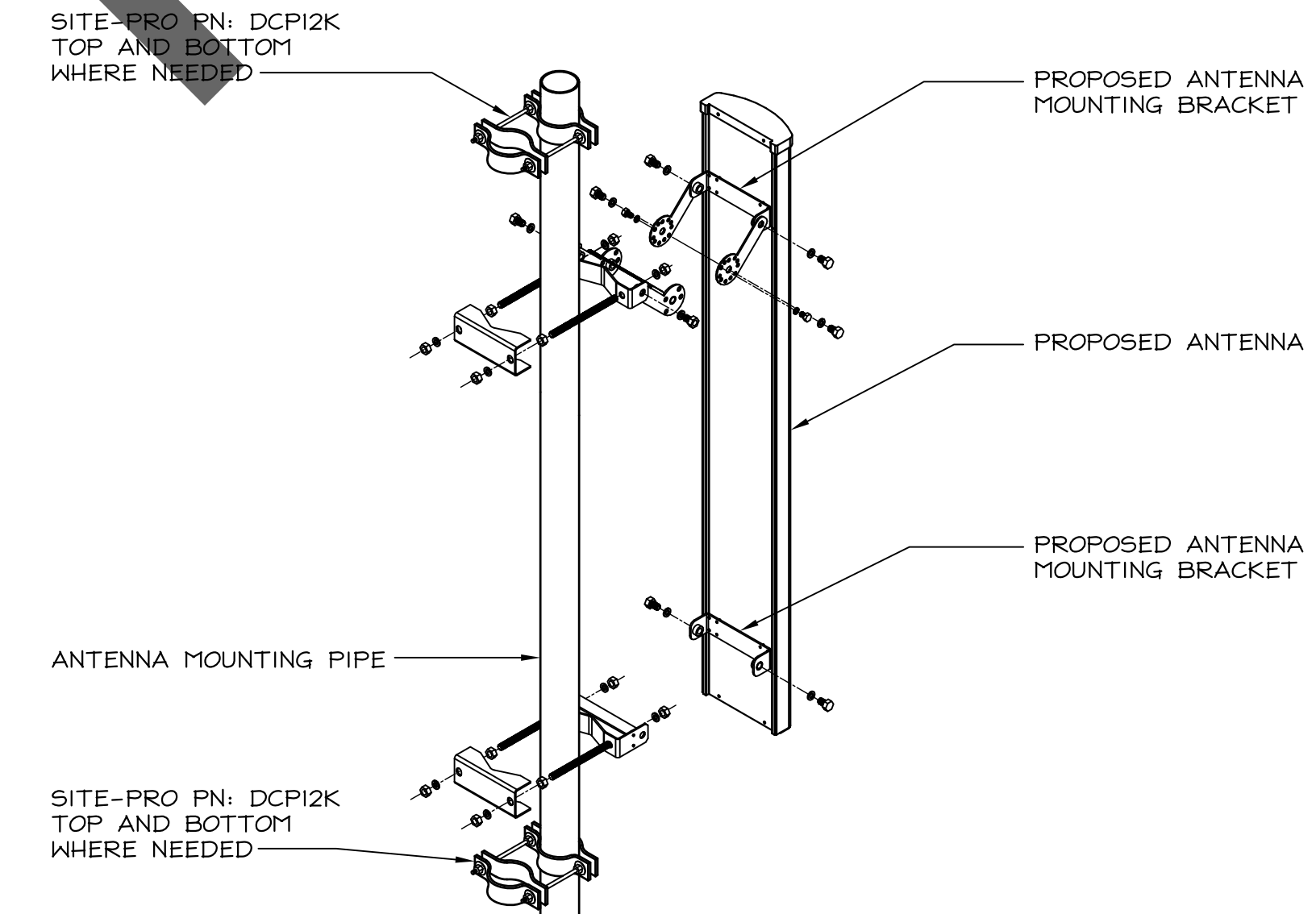
24"x36" SCALE: NTS
11"x17" SCALE: NTS

ERICSSON-DUAL BAND RADIO WRAP-AROUND SHROUD: (OR APPROVED EQUAL) W/ BOTTOM COVER

DIMENSIONS (HxWxD): 20" x 18" x 16" (508 x 457 x 406mm)
WEIGHT: 10 lbs. (4.54 kg), W/ MOUNTING KIT 25 lbs. (11.34 kg)
COLOR: PAINTED TO MATCH



- NOTES:
- ALL PIPES BRACKETS AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
 - INSERT M12 BOLTS/RODS AND M12 FLAT WASHERS INTO PIPE CLAMP PRIOR TO ATTACHING TO ANTENNA MOUNT BRACKET



RRU SHROUD

24"x36" SCALE: NTS
11"x17" SCALE: NTS

RRU MOUNTING DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

ANTENNA MOUNTING DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

ERICSSON RADIO 4490HP 44B5 44B13 C (OR APPROVED EQUAL):
4 COMMON RF PORTS (C)

- B5: 4x60W, B13: 4x60W
- 480W total RF output power
- L, NR, NB-IoT
- 2x 2.5/4.9/9.8/10.1/24.3 Gbps CPRI/eCPRI

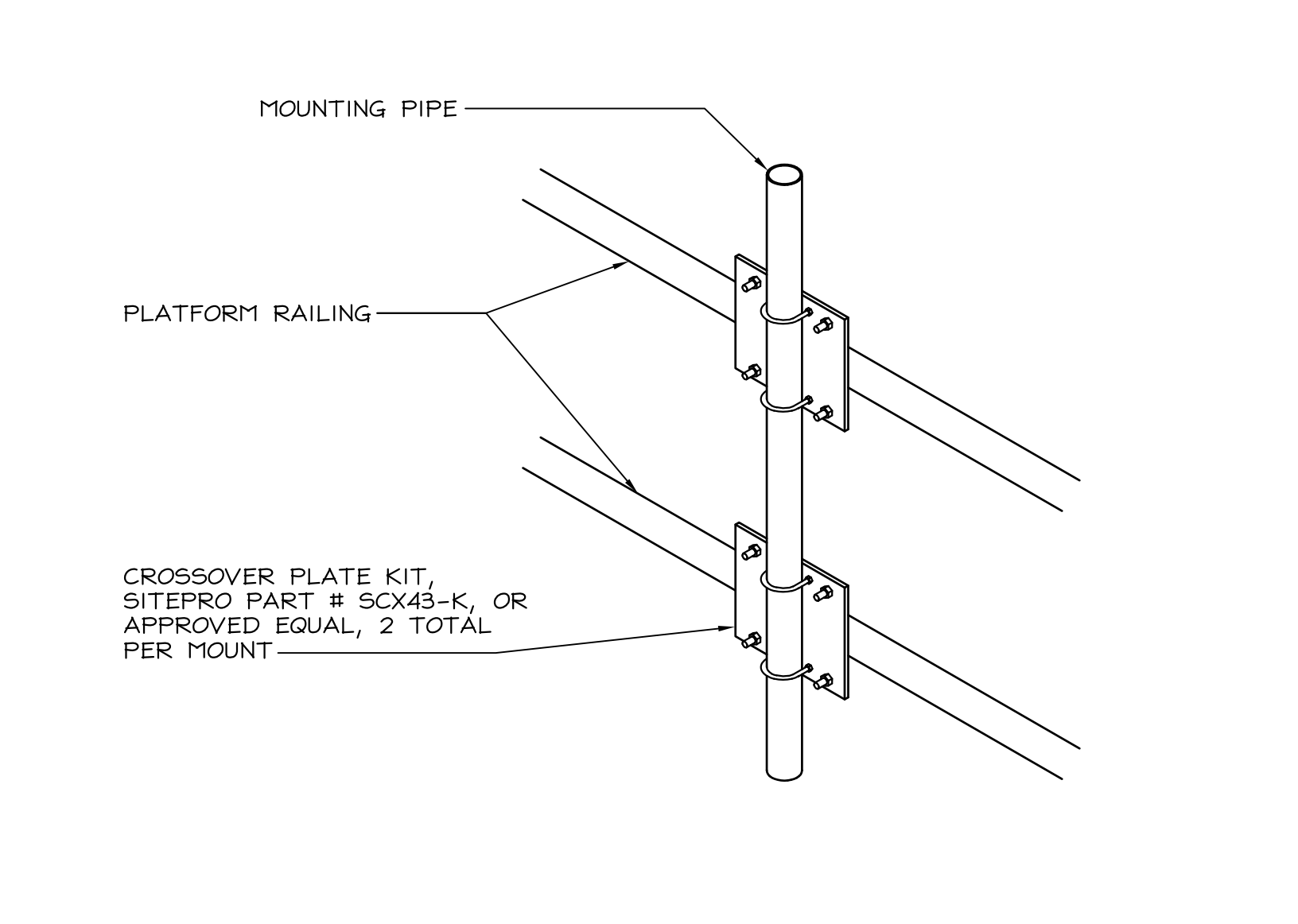
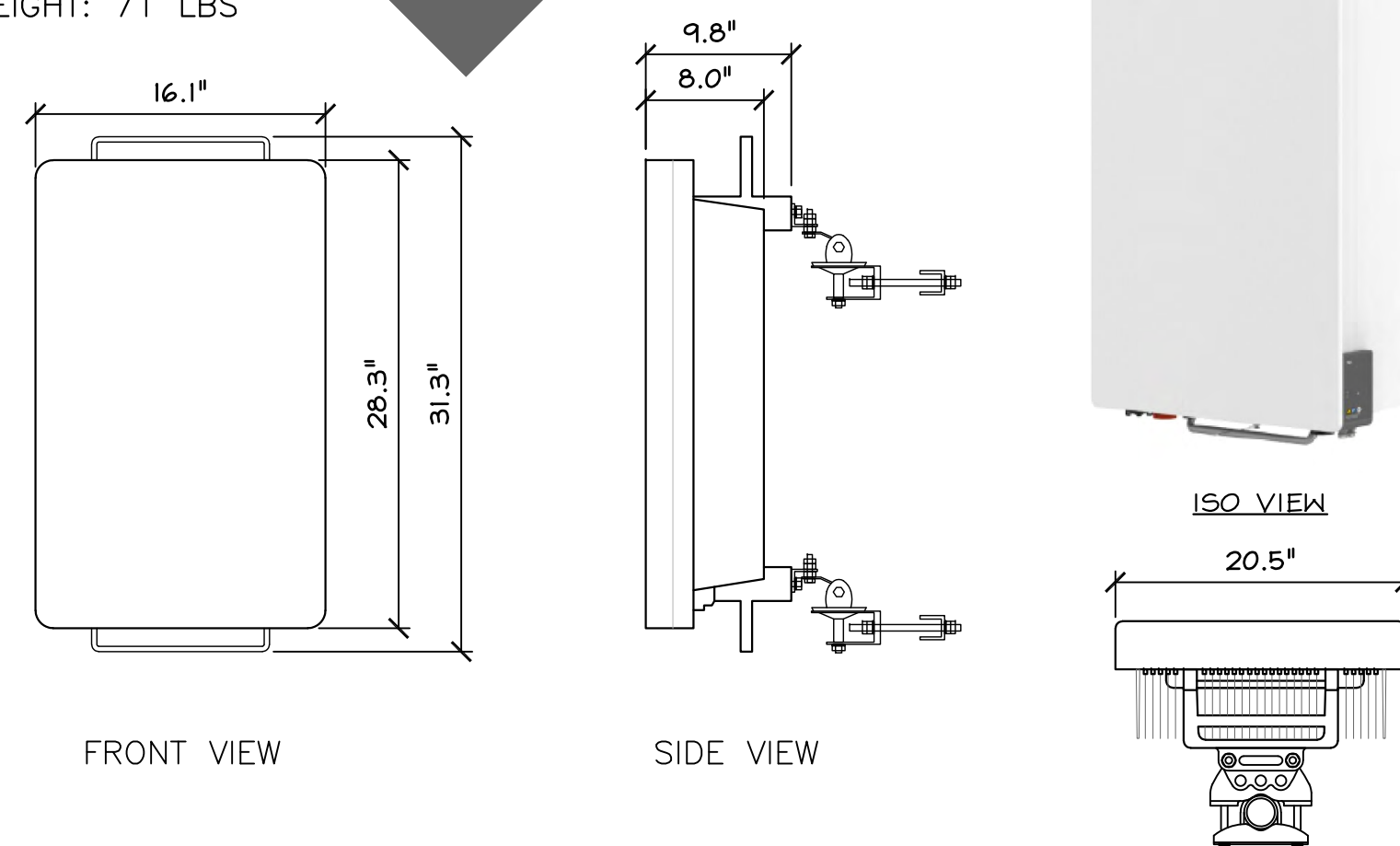
Radio 4490HP 44B5 44B13 C	Height	Width	Depth	Weight
w/ protruding items	17.5 in (444 mm)	15.2 in (384 mm)	6.8 in (172 mm)	~68.4 lbs (~31 kg)
w/ protruding items	20.6 in (522 mm)	15.7 in (397 mm)	7.0 in (178 mm)	

- 48 VDC 2-wire (one DC connector input)
- AISG v3.0 TMA & RET support via RS-485 or RF connectors
- Type 4.3-10 RF + connectors
- 2 external alarm
- Convectional cooling
- Optional fan for increased site flexibility
- IP 65, -40 to +55°C



**MANUFACTURER: ERICSSON
MODEL: AIR6419 B77D / C-BAND
(OR APPROVED EQUAL)**

DIMENSIONS, HxWxD IN: 31.3" x 16.1" x 9.8"
WEIGHT: 71 LBS



RRU SPECIFICATION

24"x36" SCALE: NTS
11"x17" SCALE: NTS

NEW C-BAND ANTENNA

24"x36" SCALE: NTS
11"x17" SCALE: NTS

CROSSOVER PLATE MOUNTING KIT

24"x36" SCALE: NTS
11"x17" SCALE: NTS

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2770 SHADELANDS DRIVE
BUILDING 11
WALNUT CREEK, CA 94598

SEQUOIA
DEPLOYMENT SERVICES, INC.
1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2283

ALLSTATES
ENGINEERING & SURVEYING
23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT

DRAWN BY: LS

CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED TWR DWGS	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS



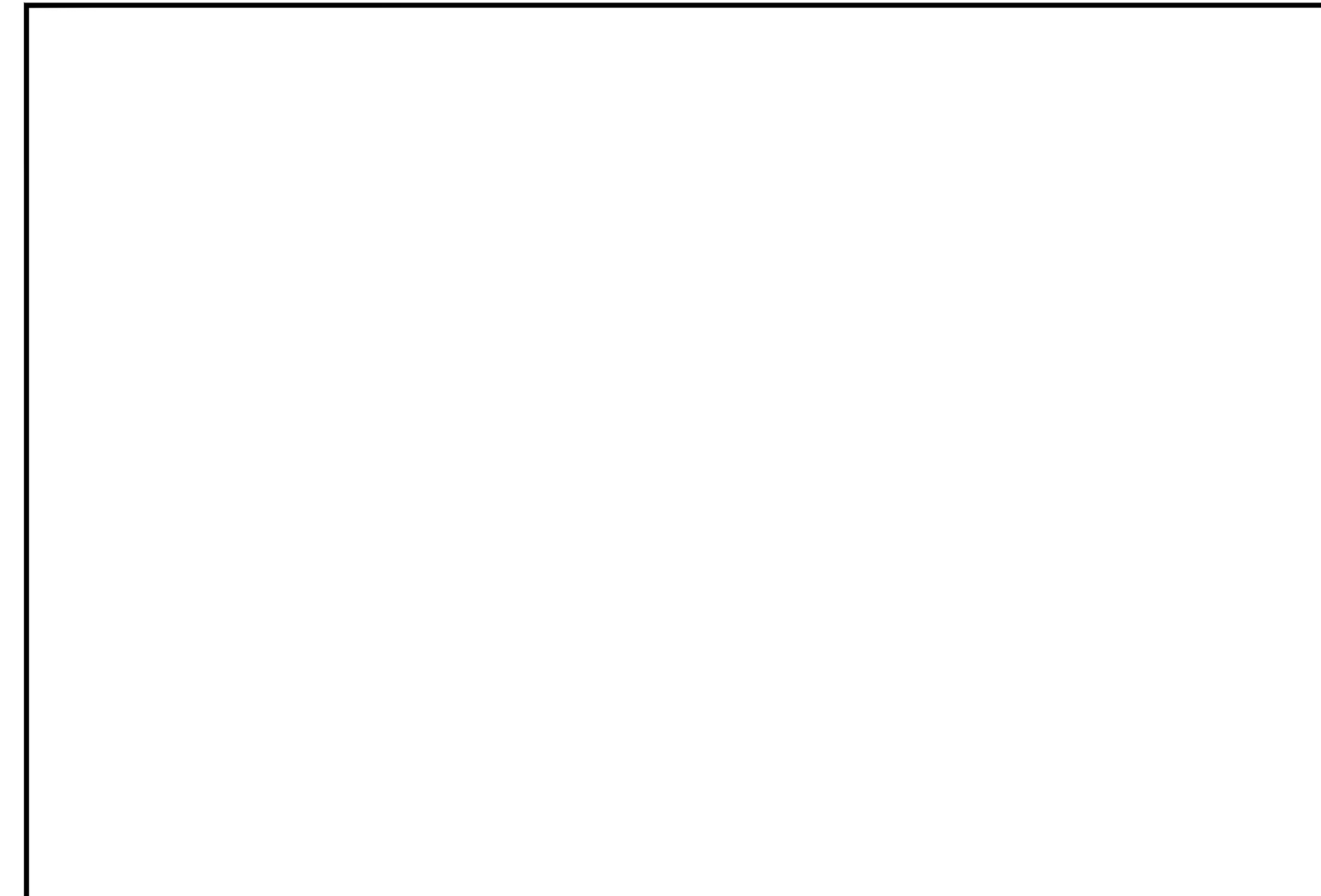
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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
**ANTENNA EQUIPMENT
DETAILS**

SHEET NUMBER

D-1



Bullet Series Tech Specs		Bullet Series Tech Specs	
Camera features			
Image Sensor	1/2.8" Progressive CMOS	Shutter Speed	1/30 sec. to 1/1020000 sec.
Sensor Resolution	5MP (2888 x 1944)	Day/Night	IR-cut filter for day and night function
Lens Type	Varifocal, motorized zoom	IR Cut Filter	Yes
Focal Length	8mm-20mm	IR Range	50m/164ft
Aperture	F1.5-F2.8	Minimum Illumination	0.02° lux @ F1.9 (Color) 0 lux with IR illumination on
Vis	P-iris	Onboard Storage	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC)	Horizontal: 10°-38° (10°-38°) Vertical: 12°-30° (12°-28°) Diagonal: 18°-45° (17°-44°)	CPU	Amberline CV5888
Camera Movement	Tilt: 0° to 90° Pan: 360° Rotation: 360°		
Standard video settings			
Compression	H.264	Historical Video Settings	Storage quality: 1
Frame Rate	24fps	Video Streaming Settings	High quality (HQ): 1500 Kbps Standard quality (SQ): 300 Kbps
Standard audio settings			
Audio	Not supported		
Power and network			
Power Input	With IR: IEEE 802.3at Type 2 PoE+ Without IR: IEEE 802.3af Type 1 PoE Extended temperature range PoE+	Connectivity	RJ-45 cable connection for PoE+ connections to PoE switch
Power Consumption	With IR: 37.57% 0.3A @ 24VDC Without IR: 33.5% 0.14A @ 24VDC Extended temperature range: 36.33-57% 0.81-0.39A @ 24VDC	RTSP	RTSP ID: RTP/RTSP Max concurrent streams: 2 Audio support: No

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2770 SHADELANDS DRIVE
BUILDING II
WALNUT CREEK, CA 94598

SEQUOIA
DEPLOYMENT SERVICES, INC.
1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2263

ALLSTATES
ENGINEERING & SURVEYING
23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

PROJECT ID:	PASO ROBLES AIRPORT
DRAWN BY:	LS
CHECKED BY:	SS

REV	DATE	DESCRIPTION	
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS **4** **CB52-TE OUTDOOR BULLET CAMERA SPECIFICATIONS** 24"x36" SCALE: NTS 11"x17" SCALE: NTS **2**

Introduction
What's in the box

ACC-MNT-SJBOX-1

Hole Patterns

- A 4" square junction Box
- B Double gang junction box
- C Single gang junction box
- D 3.5" junction box
- E EU junction box
- F ACC-MNT-CORNER-1, ACC-MNT-POLE-1

What you'll need

- A compatible Verkada product with its hardware
- A #2 Phillips screwdriver or power drill with a #2 Phillips driver bit
- 1/2" (12.7mm) drill bit, or larger, for routing cable through wall
- 1/8" (3mm) drill bit for pilot holes

Compatible products

For a list of compatible products, please visit <https://docs.verkada.com/docs/accessories-avavivaw.pdf>

Installation
Mounting

For Pole or Corner Mount

Attach the junction box to the Pole or Corner Mount using the provided machine screws through hole pattern F.

Feed Ethernet cable through the center of the junction box before fully securing it to the mounting surface.

Leave enough slack to safely handle the camera during cable gland installation.

4 **CB52-TE OUTDOOR BULLET CAMERA SPECIFICATIONS** **2**

Hali-Brite
HBM 400PS L-802A Airport Rotating Beacon

Features:

- Patented belt-drive system eliminates the lubrication maintenance required by conventional gear-drive beacons (U.S. Pat. 5,339,224)
- Patented liquid-filled lamp connector, eliminating the slip rings and brushes found on conventional beacons (U.S. Pat. 5,816,678)
- Two 40,000 lumen, 400 watt pulse-start metal halide lamps
- Pulse-start lamps are fully bright in 3-5 minutes
- 26,000 hour typical lamp life (5 years)
- One clear lens, one aviation green lens
- NO maintenance except lamp replacement
- All moving parts are permanently lubricated
- Thermally-protected motor eliminates burnouts
- Lamps preset 5° above horizontal, adjustable
- 12 RPM rotation, 24 flashes/min ute
- Weatherproof steel cabinet, powder coated international orange
- Optional stainless steel cabinet & bearings for highly corrosive environments
- Class I temperature range: -30 to +55 °C (-22 to +131 °F)
- Class II temperature range: -55 to +55 °C (-67 to +131 °F)
- Tested to wind velocities of 100 mph
- Optional photocell and/or tell-tale relay
- Mountable on a Hali-Brite Tipdown Pole
- Power Consumption: 965W Class I, 1365W Class II
- Manufactured in the USA

Compliance with Standards:
FAA: L-802A A/C150/5345-12 (Current Edition)
ICAO: Annex 14, para 5.3.3

Applications:
L-802A Rotating Beacons are designed primarily for night operation as identification and location markers for airports.

Optional Beacon Tipdown Pole

Ordering Information

Part Number	Description
L801A1116	120 VAC, 60 Hz, Class I
L801A1125	220-240 VAC, 50 Hz, Class I
L801A1126	220-240 VAC, 60 Hz, Class I
L801A1216	120 VAC, 60 Hz, Class II
L801A1225	220-240 VAC, 50 Hz, Class II
L801A1226	220-240 VAC, 60 Hz, Class II

NOTE: 220-240 VAC must be single wire with neutral

Options

Part Number	Description
L801/802 T/T HBM 120	TELL-TALE RELAY 120 VAC
L801/802 T/T HBM 240	TELL-TALE RELAY 220-240VAC
4200-0000	TOWER MOUNTING KIT
L801/802 HBM SS	STAINLESS STEEL OPTION
HALI-BRITE TIPDOWN	HALI-BRITE TIPDOWN POLE

Replacement Parts

Part Number	Description
0200-0024	Ballast Assy 50 Hz
0200-0025	Ballast Assy 60 Hz
0600-0003	Belt
2300-9002	Motor Fuse, 1/2 amp
2300-0010	Lamp Fuse, 6.25 amp
3400-0125B	Lamp, 150 watt pulse-start
2800-0006	Lens, Clear
2800-0043	Lens, Green
2800-0025	Lens, Amber
1500-0011	Lens Clip

Shipping Information

Unpackaged Weight: 75 pounds
USA Shipping Weight: 110pounds
USA Shipping Volume: 48"x25"x25"
International Shipping Weight: 110 pounds
International Shipping Volume: 48"x25"x25"

Sales and Technical Support:
1.800.553.6269
Sales@halibrite.com

Hali-Brite, Inc.
1119 Madison Street
Brainerd, MN 56401

www.halibrite.com
Ph: 218.454.0956
Fax: 218.454.0972

REGISTERED PROFESSIONAL ENGINEER
MUSAM ZALZAL
71655
CIVIL
STATE OF CALIFORNIA

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**PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446**

**SHEET TITLE
TOWER EQUIPMENT
DETAILS**

**SHEET NUMBER
D-2**

POLE CAMERA MOUNTING 24"x36" SCALE: NTS 11"x17" SCALE: NTS **3**

ROTATING BEACON SPECIFICATIONS 24"x36" SCALE: NTS 11"x17" SCALE: NTS **1**

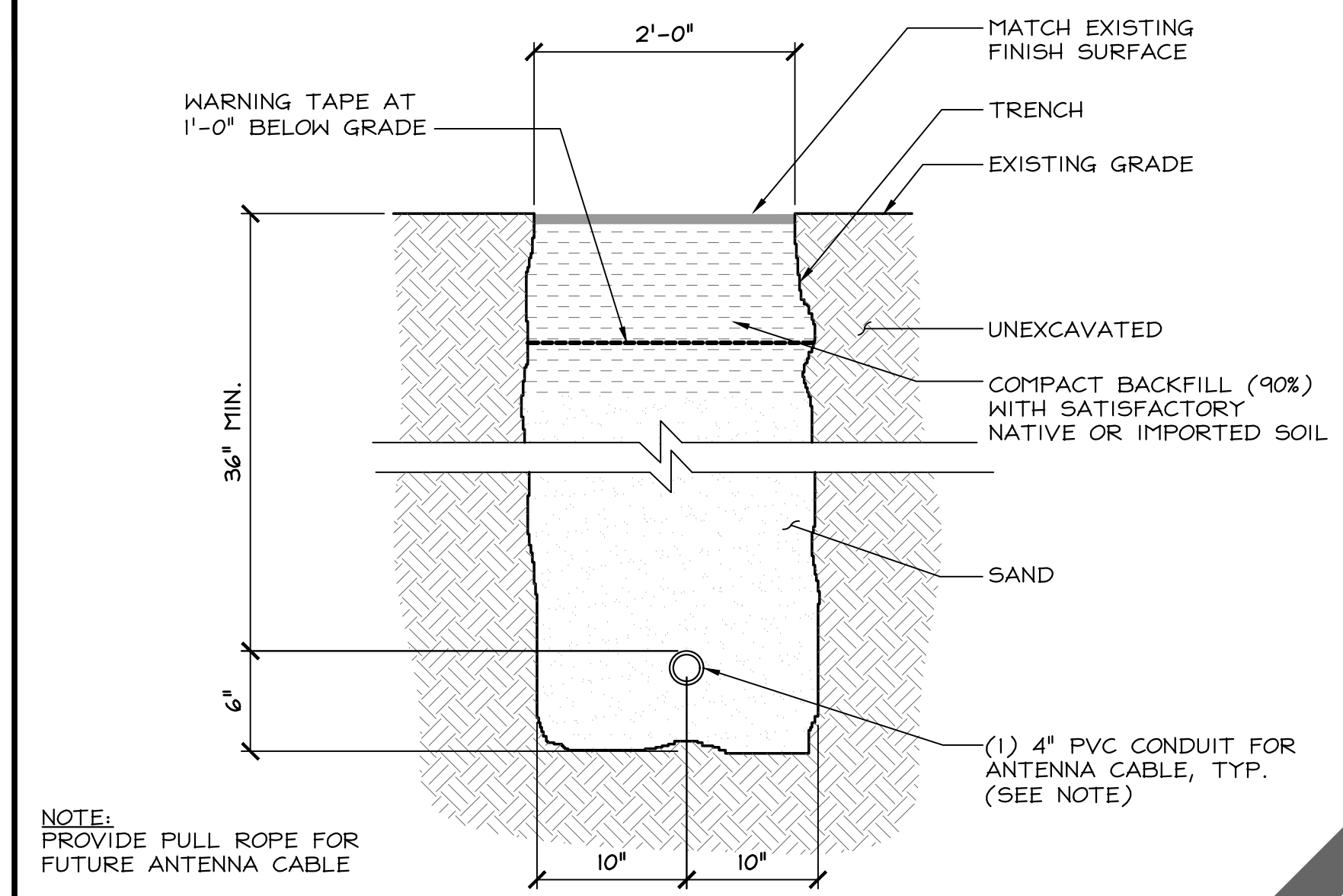
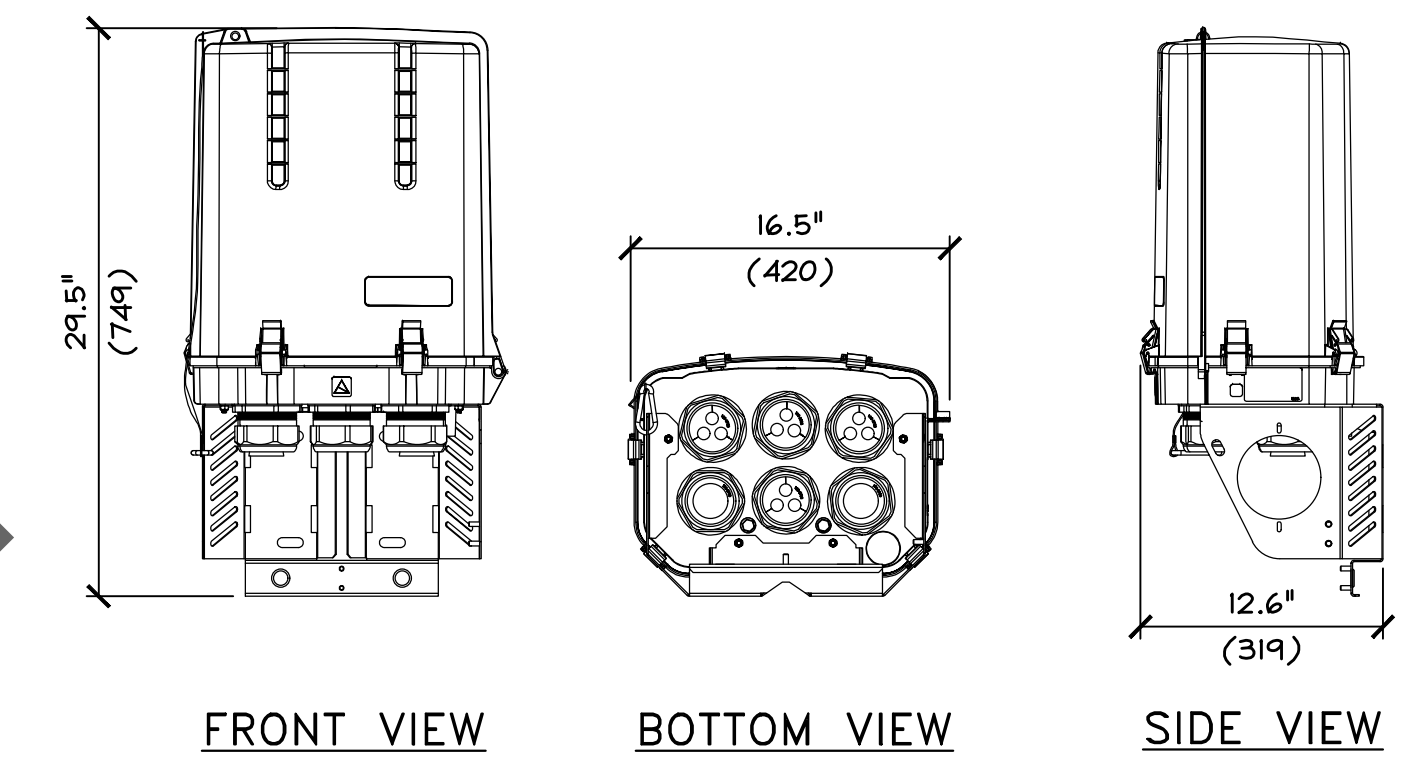
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1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2263

ALLSTATES
ENGINEERING & SURVEYING
23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

PAYCAP RxxDC-6627-PF-48:
(OR APPROVED EQUAL)
MODEL# : RxxDC-6627-PF-48
DIMENSIONS LxWxH (mm) : 12.6"x16.5"x29.5" (319)x(420)x(749)
WEIGHT (kg): 32LBS (14.51)



NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS **8**

KIVO SERIES LED OUTDOOR LIGHTING (KIVO II CS) RuggedGrade

- INPUT VOLTAGE 120-347VAC
- 200 WATTS INPUT POWER
- 25K-29K LUMENS (±130 LUMENS /WATT)
- COLOR TEMP 2700K-6500K
- POWER FACTOR > 0.9
- LED TYPE SMD3030
- ALUMINUM ALLOY HOUSING
- IP65 WET RATED (W.P.)
- OPERATING TEMP: -40°C-50°C
- OPERATING HUMIDITY 10%-90% RH

UL CUL certificate.
IP65 driver, input voltage 120-347AC.
Color Adjustable.
No UV or IR in the beam.
Easy to install and operate.
Energy saving, long lifespan.
Light is soft and uniform, safe to eyes.
Instant start, NO flickering, NO humming.
Green and eco-friendly without mercury.

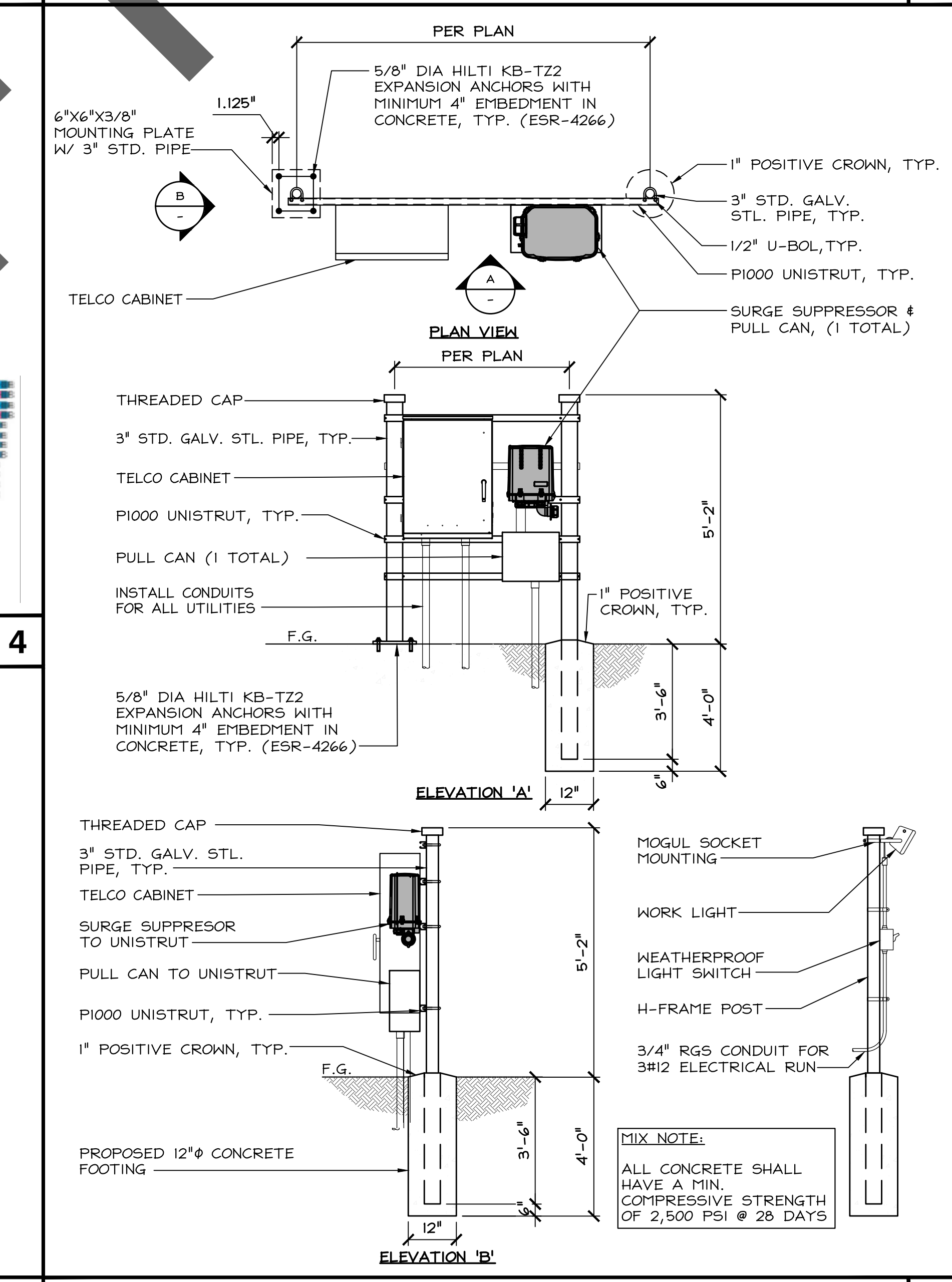
RECESSED (SHIELDED) ELEMENT
LIGHTING HEAD (DOWNCAST MOUNT)
SLIP-FIT MOUNT ON CONDUIT RISER
2" EMT CONDUIT RISER (2-3/8" O.D.)

ANTENNA CABLE TRENCH 24"x36" SCALE: NTS 11"x17" SCALE: NTS **5**

COMMSCOPE 6x12 HYBRID CABLE:
(OR APPROVED EQUAL)

- ALARM WIRE, QUANTITY: 18
- CONDUCTORS, QUANTITY: 12
- CONSTRUCTION TYPE: HYBRID STANDARD TRUNK
- TOTAL FIBERS, QUANTITY: 24
- CORD LENGTH: 600 FT
- DIAMETER OVER JACKET: 1.55"
- ALARM WIRE GAUGE: 18 AWG
- CENTER CONDUCTOR GAUGE: 6 AWG
- MINIMUM BEND RADII: 18.6"
- MINIMUM BEND RADIUS, FURCATION: 1.81"
- FIBER TYPE: G.657.A2
- ASSEMBLY INSERTION LOSS, TYP.: 0.5 dB
- CABLE WEIGHT: 1.882 lb/ft

SURGE SUPPRESSOR 24"x36" SCALE: NTS 11"x17" SCALE: NTS **2**



PROJECT ID: PASO ROBLES AIRPORT

DRAWN BY: LS
CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THR. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS



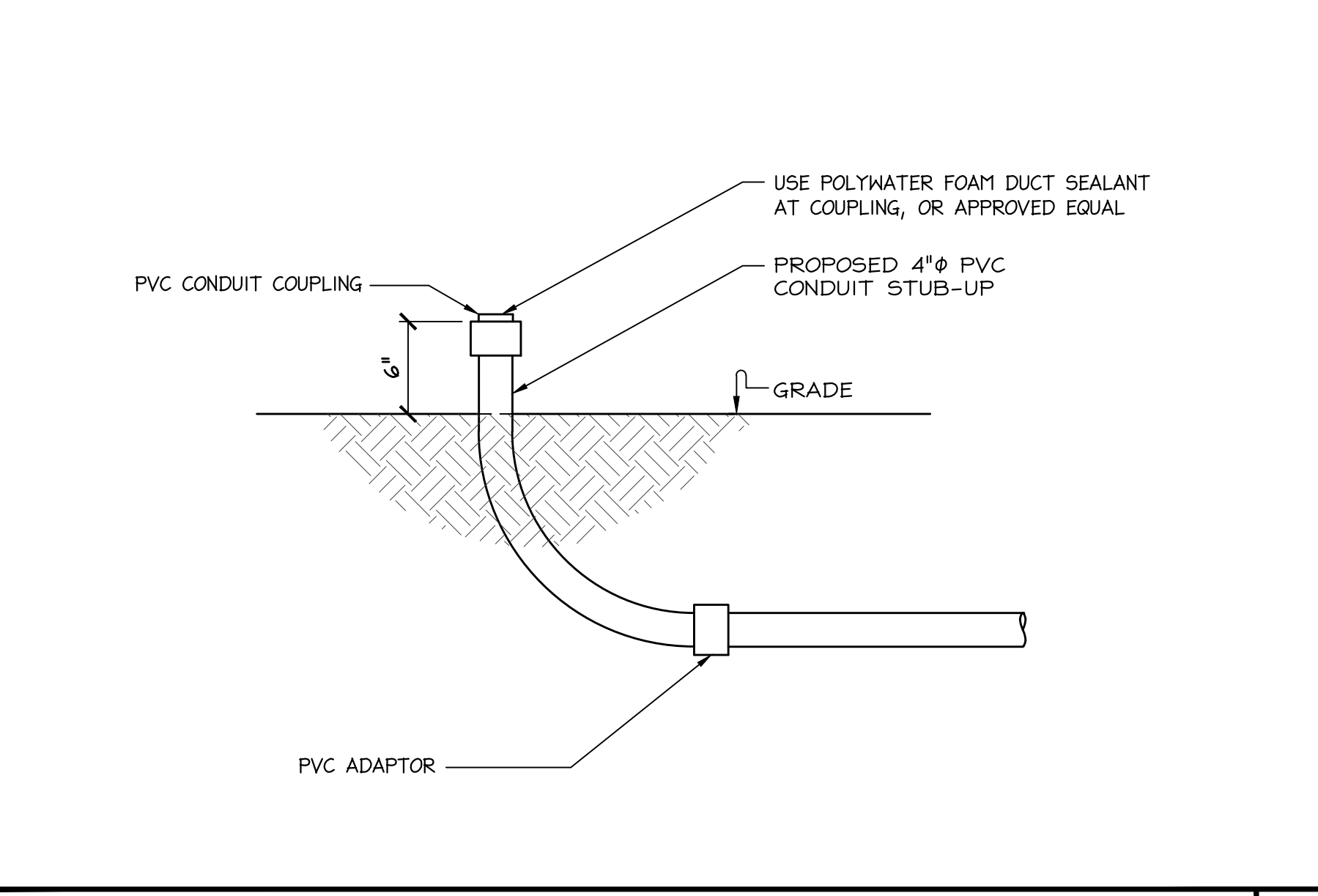
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PASO ROBLES AIRPORT BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

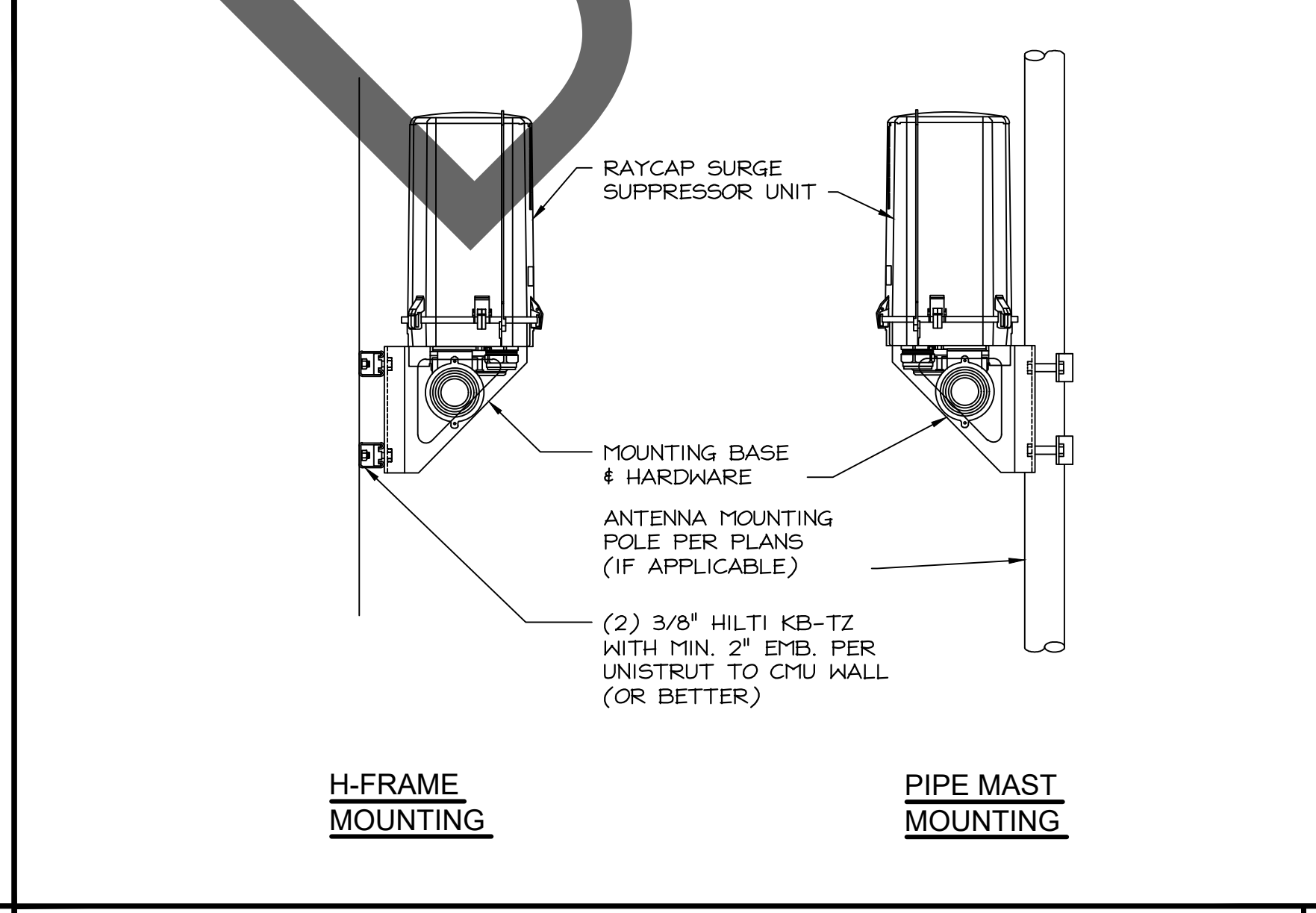
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
D-3

SERVICE LIGHTING 24"x36" SCALE: NTS 11"x17" SCALE: NTS **7**



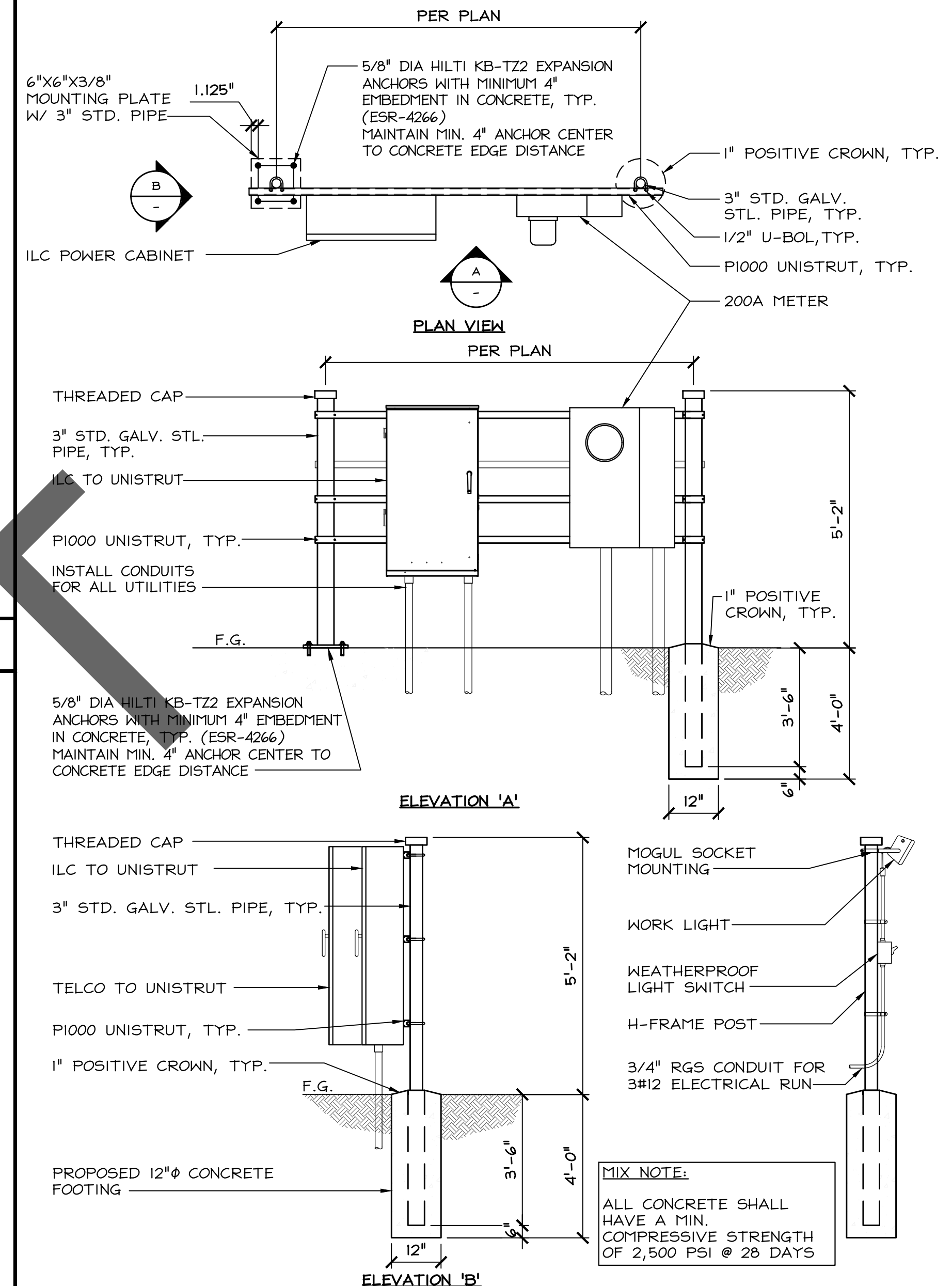
HYBRID CABLES 24"x36" SCALE: NTS 11"x17" SCALE: NTS **4**



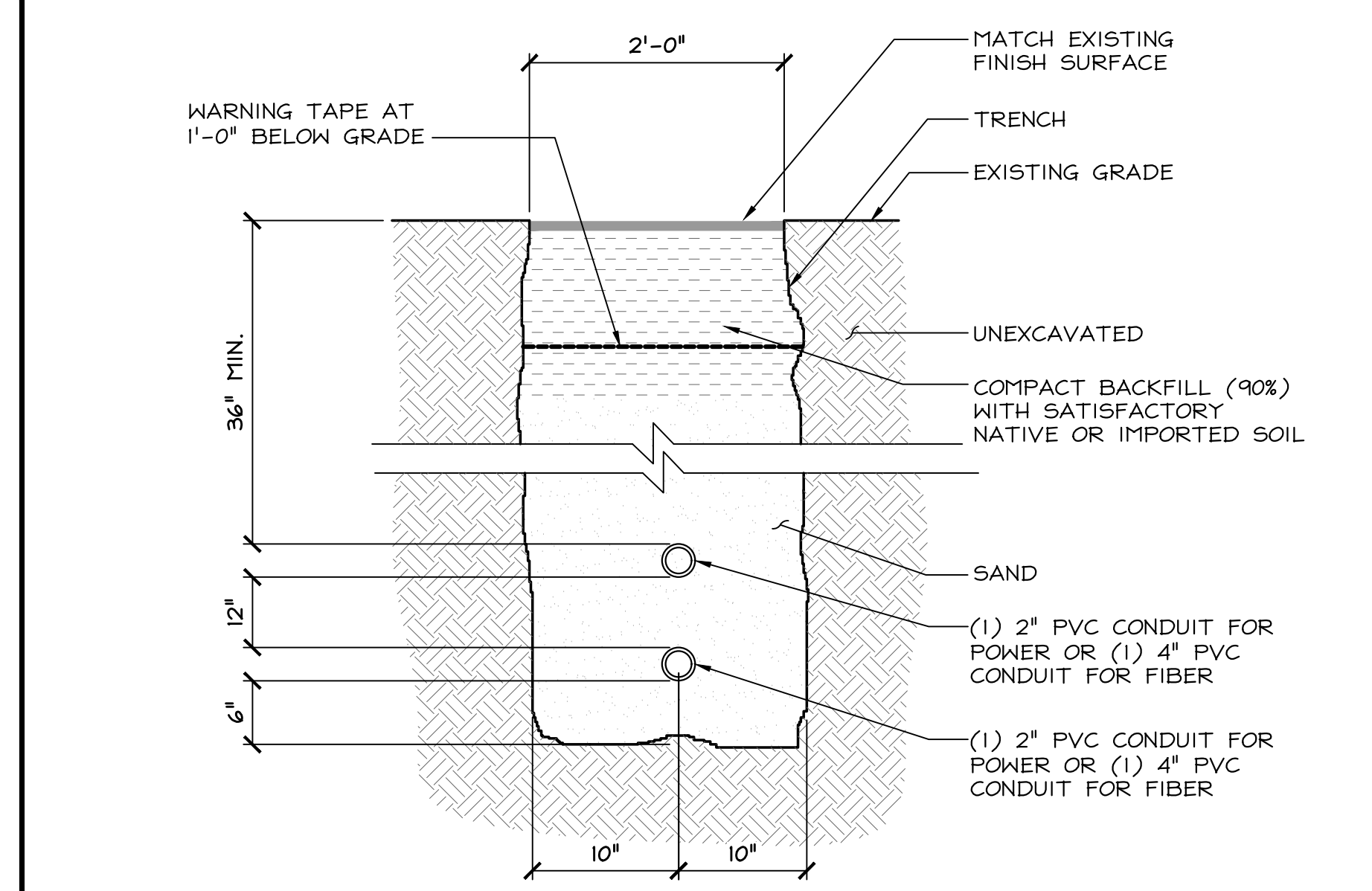
ANTENNA CABLE STUB-UP DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS **6**

SURGE SUPPRESSOR MOUNT 24"x36" SCALE: NTS 11"x17" SCALE: NTS **3**

H-FRAME W/ SURGE SUPPRESSOR & TELCO 24"x36" SCALE: NTS 11"x17" SCALE: NTS **1**

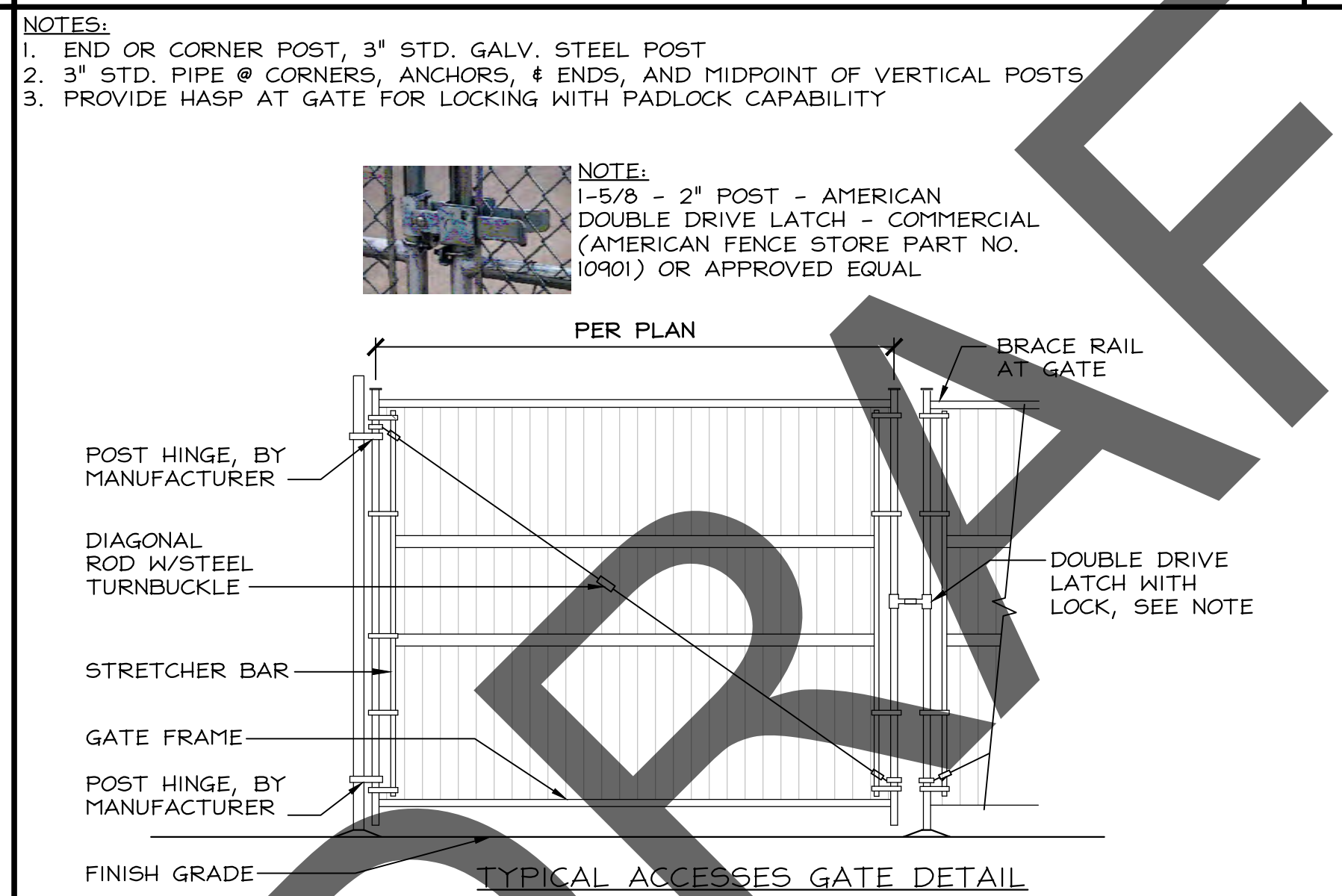


H-FRAME W/ ILC & METER 24"x36" SCALE: NTS 11"x17" SCALE: NTS **2**

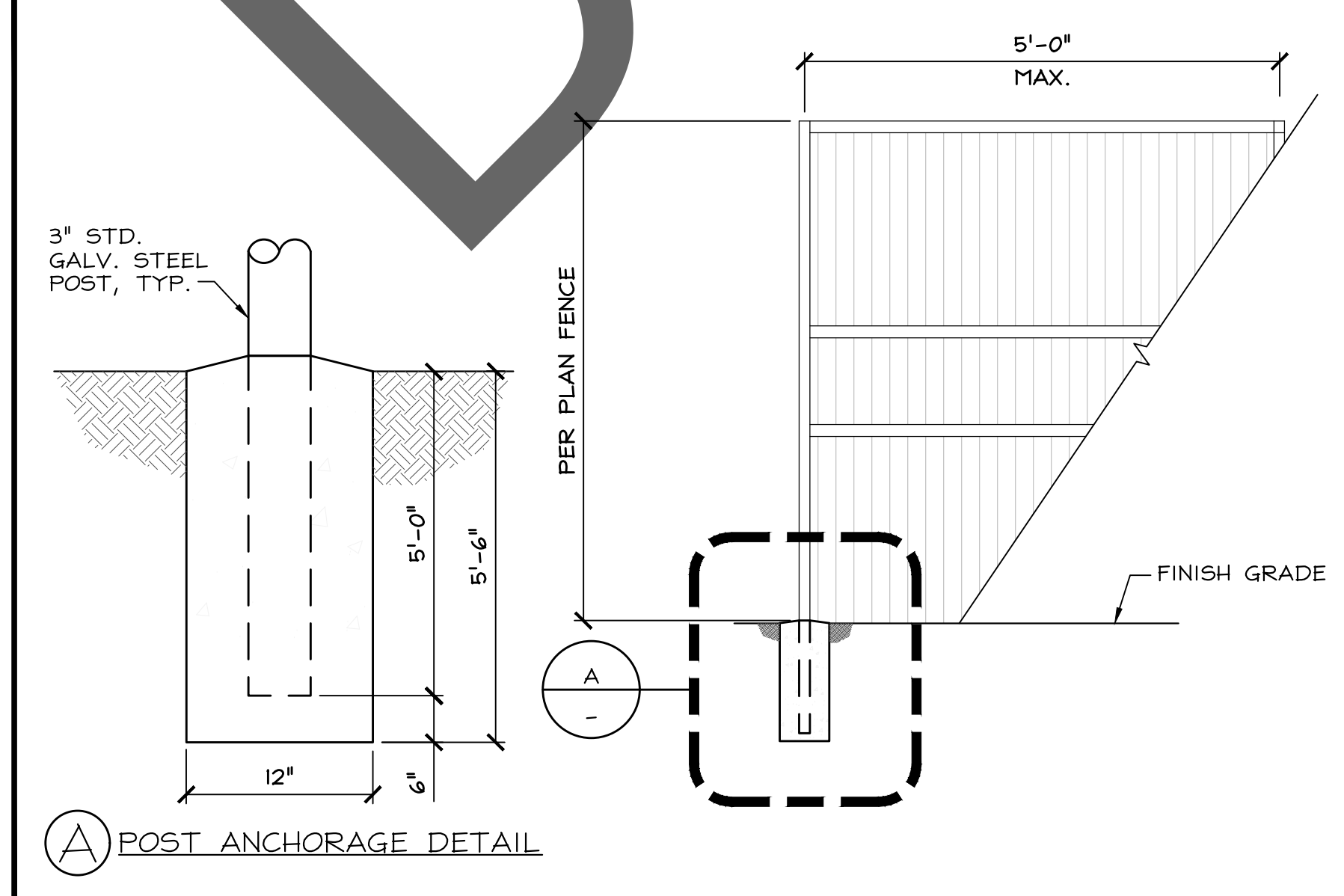


POWER / FIBER TRENCH 24"x36" SCALE: NTS 11"x17" SCALE: NTS **1**

PROPOSED FENCE MATERIAL 24"x36" SCALE: NTS 11"x17" SCALE: NTS **4**



FENCE DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS **5**



FENCE DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS **5**

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS **7**

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS **6**

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS **5**

verizon
 2770 SHADELANDS DRIVE
 BUILDING 11
 WALNUT CREEK, CA 94598

SEQUOIA
 DEPLOYMENT SERVICES, INC.
 1 SPECTRUM POINTE DRIVE, SUITE 130
 LAKE FOREST, CA 92630-2283

ALLSTATES
 ENGINEERING & SURVEYING
 23675 BIRTCHE DRIVE
 LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT
 DRAWN BY: LS
 CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THR. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
 MUSAAM ZALZAL
 71655
 CIVIL
 STATE OF CALIFORNIA

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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
 4960 WING WAY
 PASO ROBLES, CA 93446

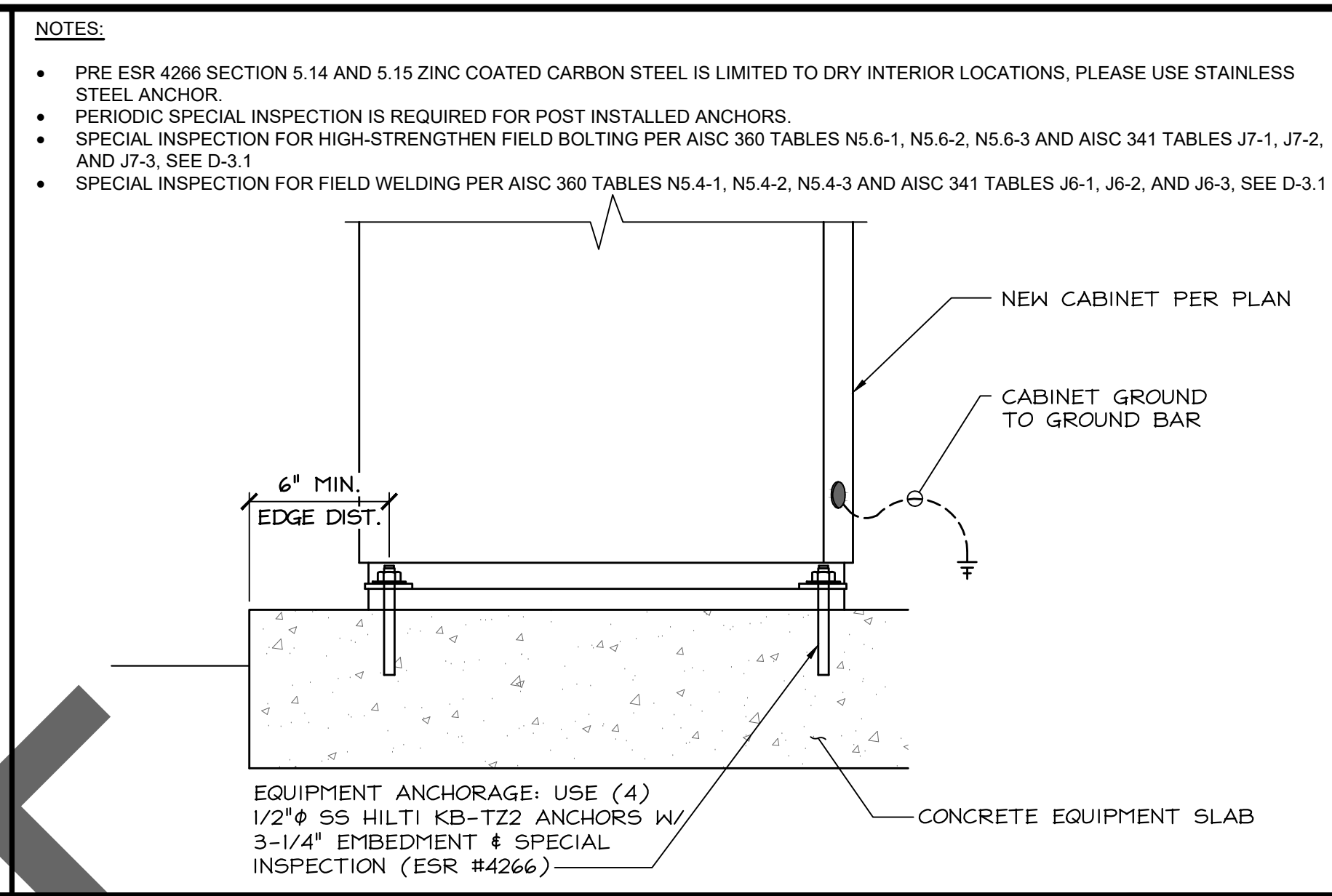
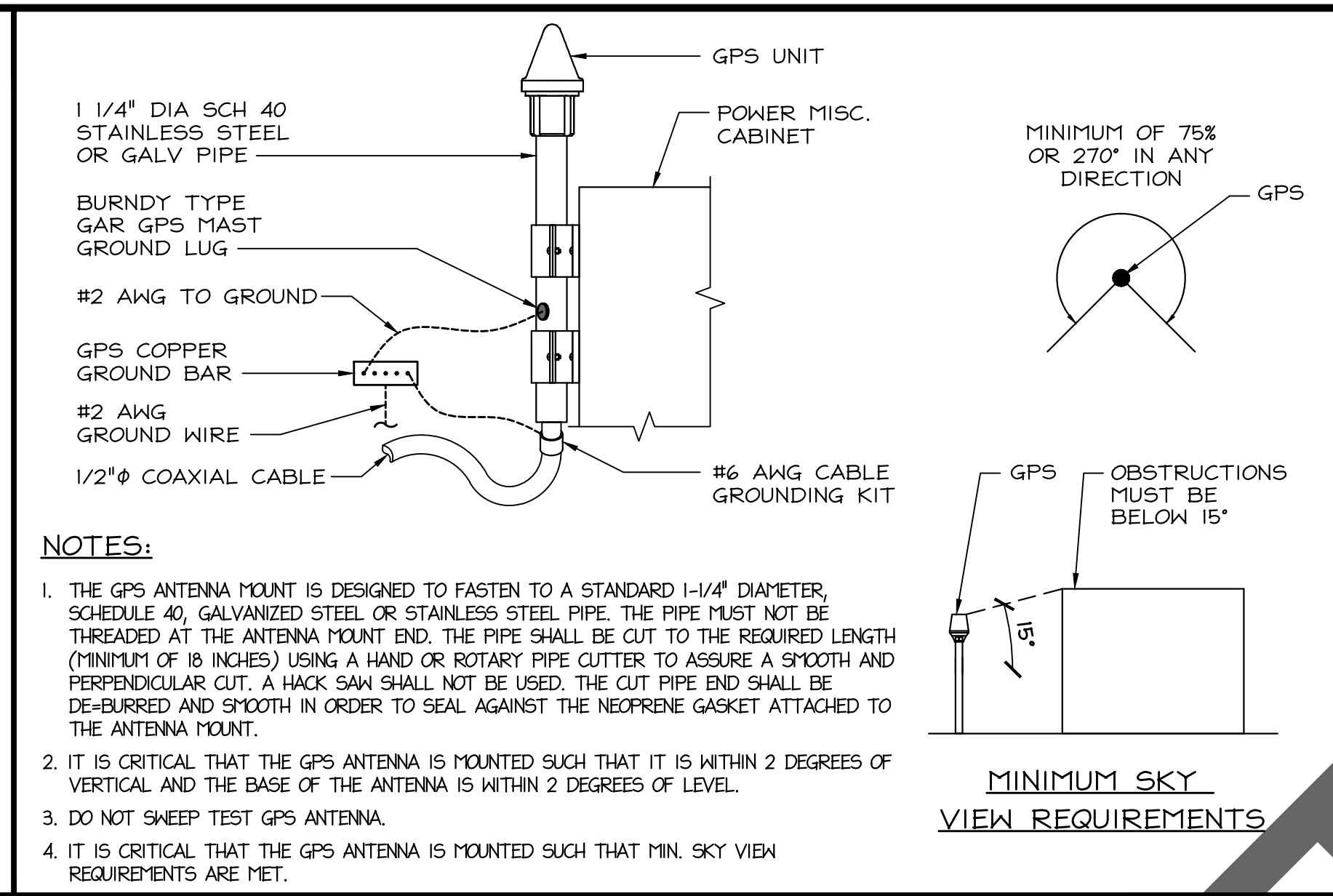
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
D-3.1

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

7



verizon

2770 SHADELANDS DRIVE
BUILDING 11
WALNUT CREEK, CA 94598

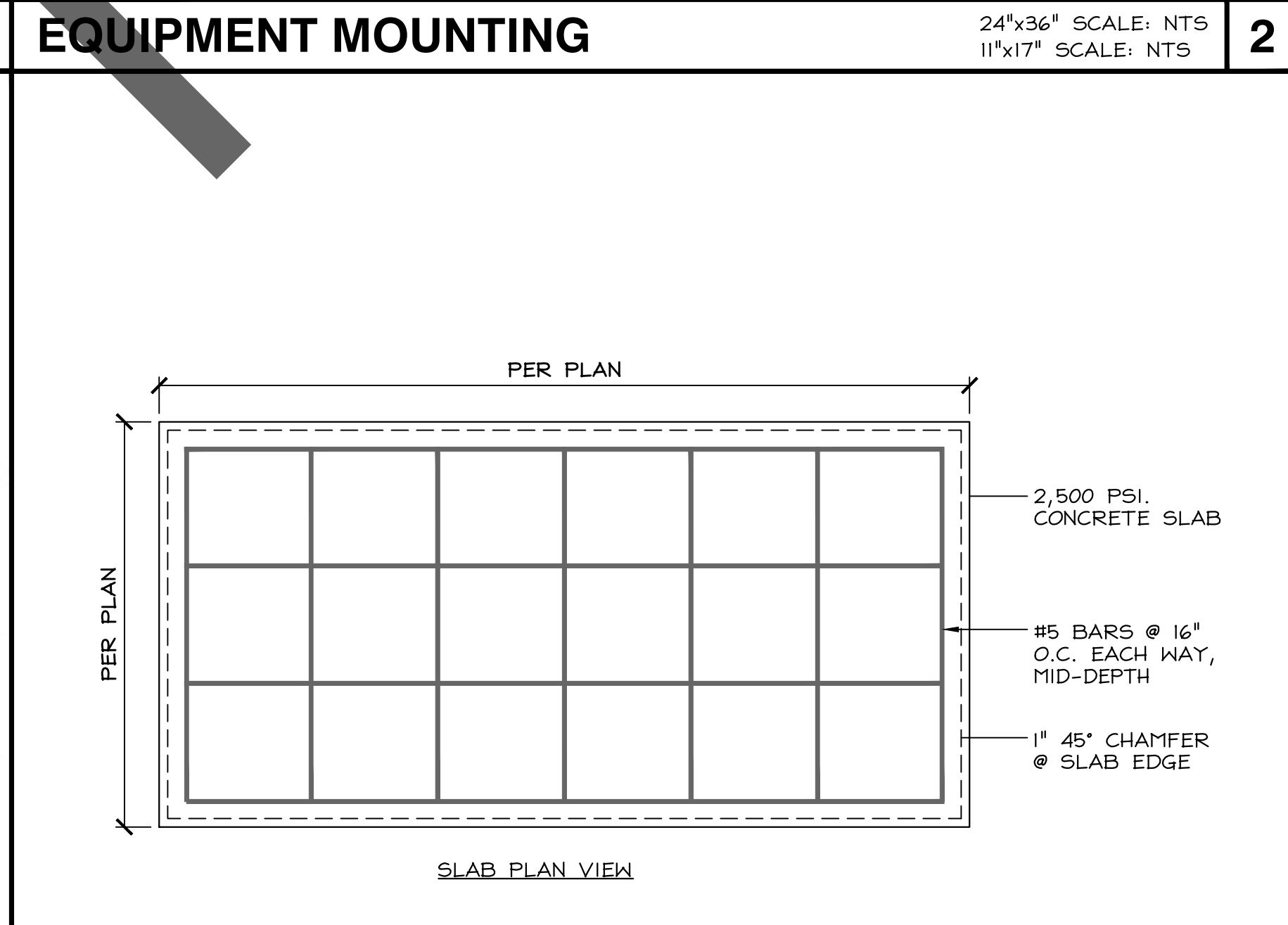
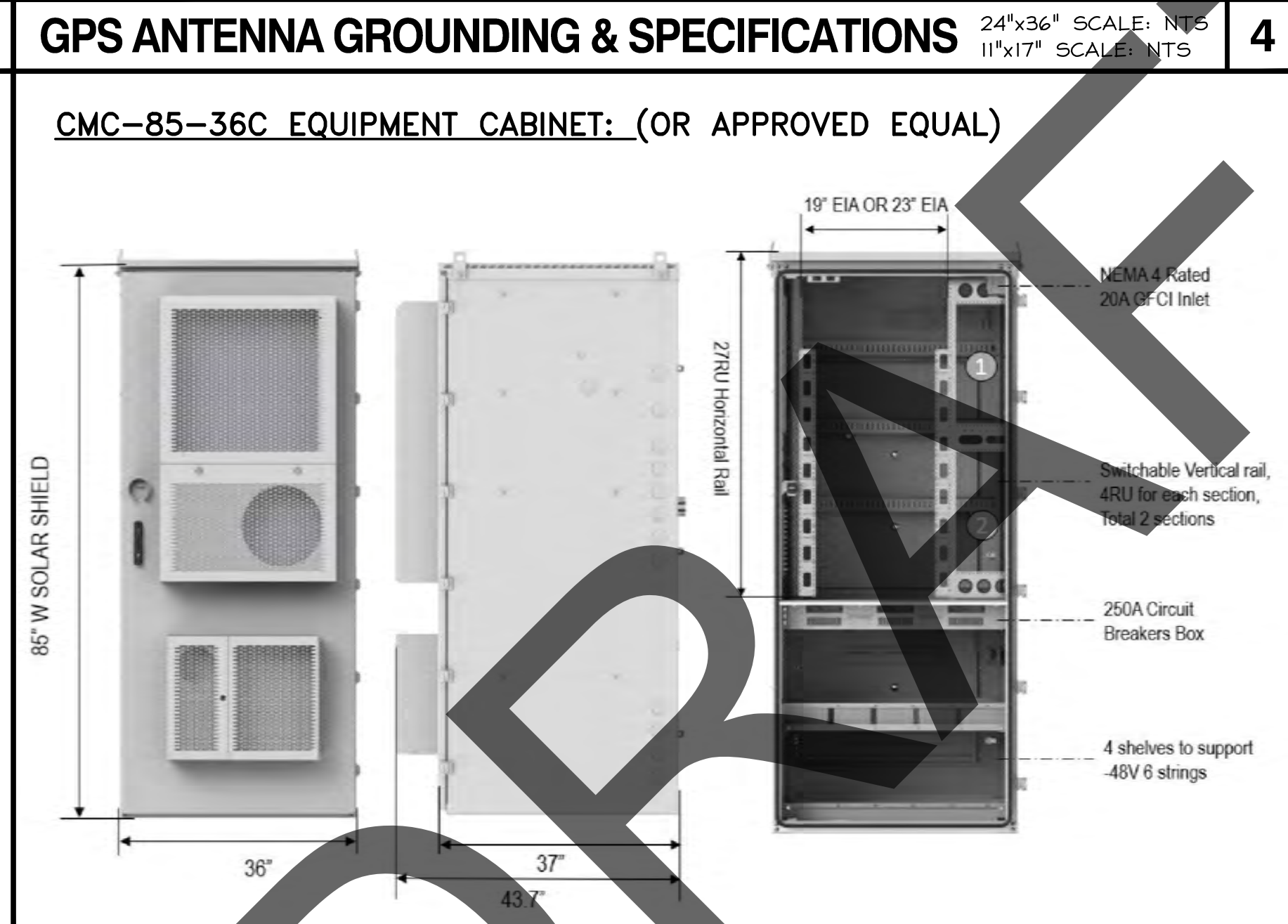
SEQUOIA
DEPLOYMENT SERVICES, INC.
1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2263

ALLSTATES
ENGINEERING & SURVEYING
23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

6



PROJECT ID: PASO ROBLES AIRPORT

DRAWN BY: LS

CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
MOSAM ZALZAL
71655
CIVIL
STATE OF CALIFORNIA

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NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

5

DESIGN CRITERIA:

CODE: STRUCTURAL DESIGN IS BASED ON CALIFORNIA BUILDING CODE, 2022 EDITED (2021 IBC) AND TIA-22-H STANDARD

WIND: BASIC WIND SPEED = 103 MPH (3-SECOND GUST) PER THE TIA-22-H STANDARD

RISK CATEGORY: IV

WIND EXPOSURE: C

TOPOGRAPHIC CATEGORY: 1

CREST HEIGHT: 0 FT

ICE: NONE PER THE TIA-22-H STANDARD

SEISMIC: SEISMIC IMPORTANCE FACTOR, I = 1.5

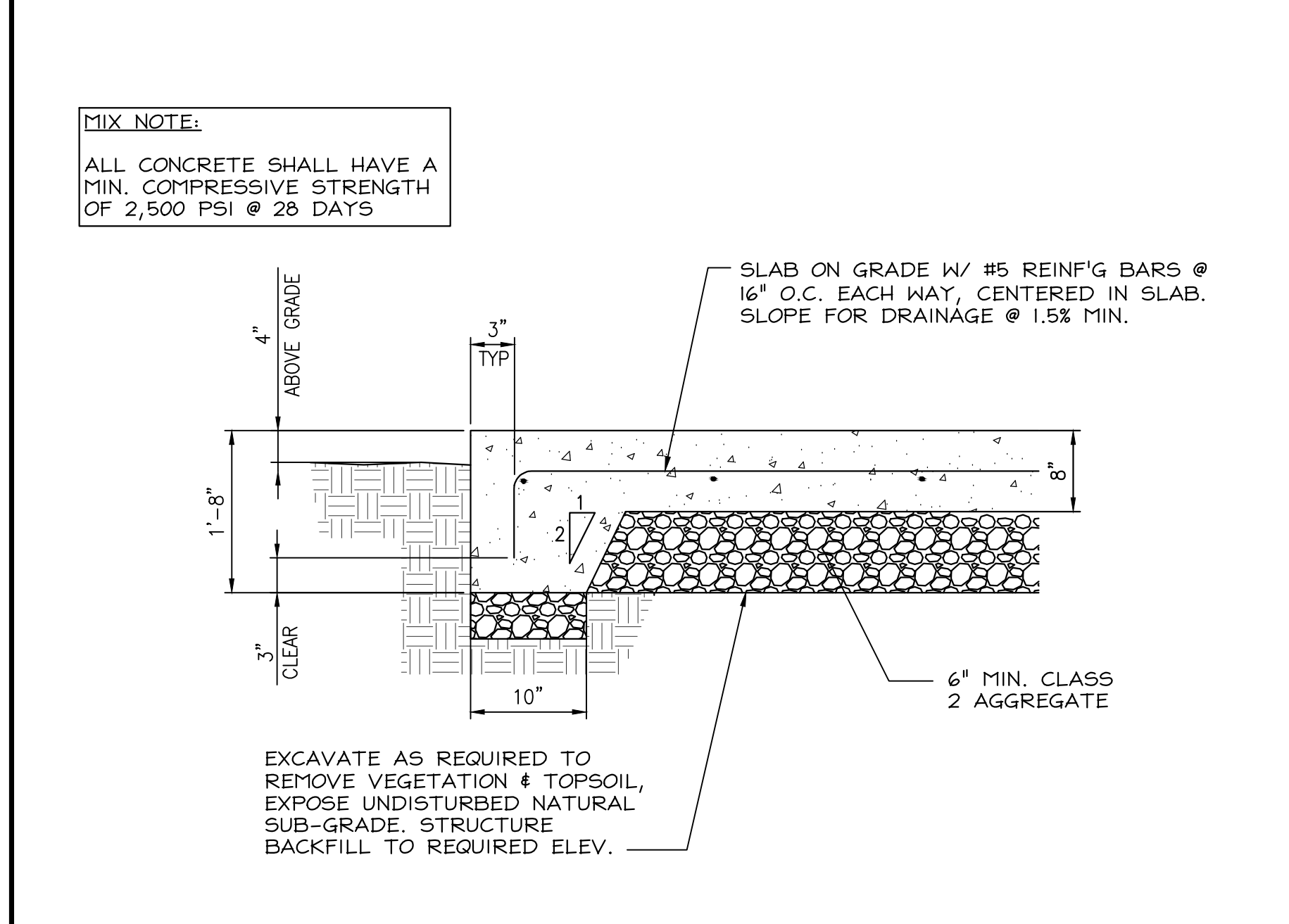
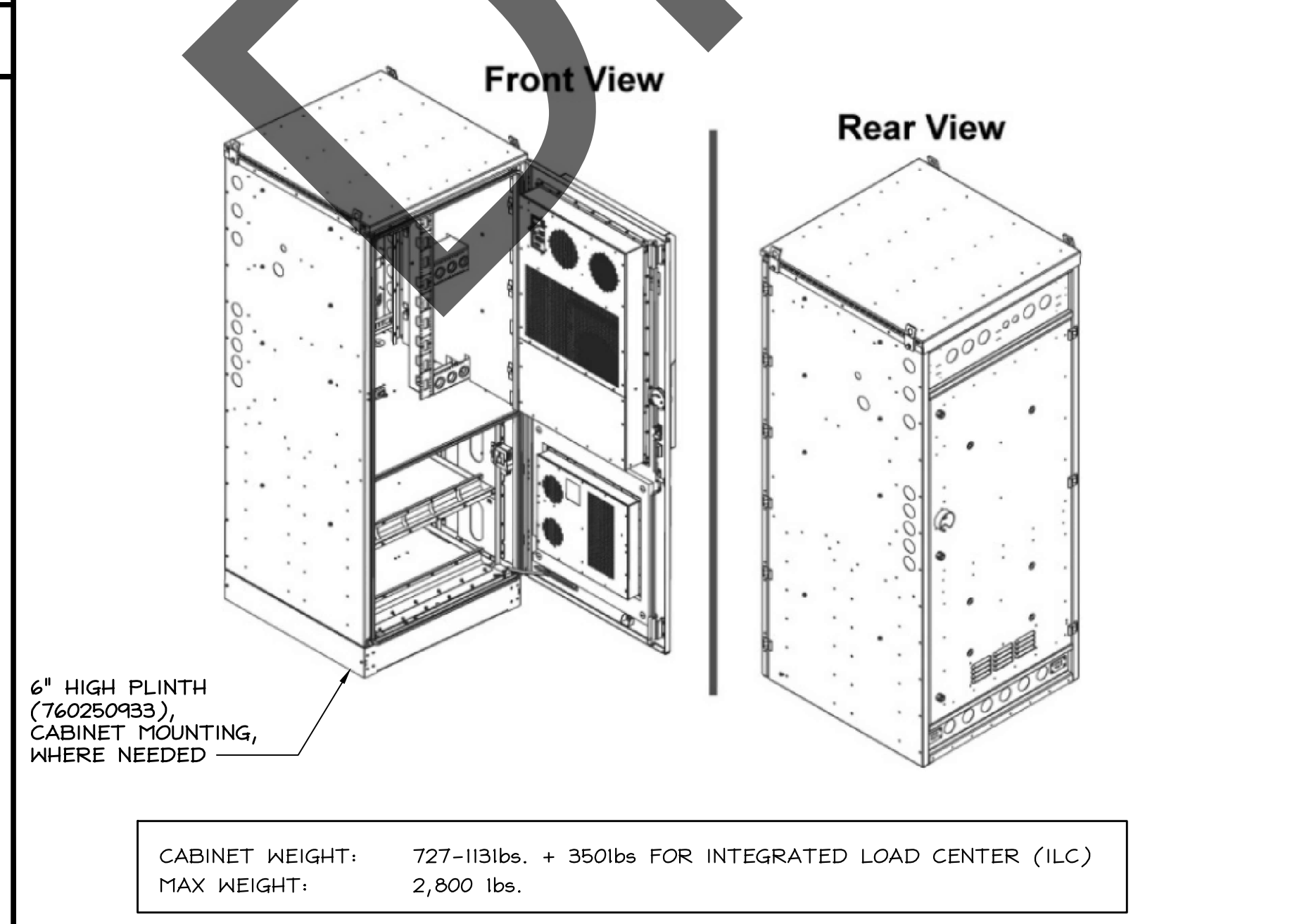
RISK CATEGORY: II

MAPPED SPECTRAL RESPONSE ACCELERATIONS: SS = 1.2, 33G S1 = 0.444G

SITE CLASS: D

SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.986G SD1 = 0.824G

SEISMIC DESIGN CATEGORY: D



PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
D-4

DESIGN CRITERIA

24"x36" SCALE: NTS
11"x17" SCALE: NTS

5

EQUIPMENT CABINET SPECIFICATIONS

24"x36" SCALE: NTS
11"x17" SCALE: NTS

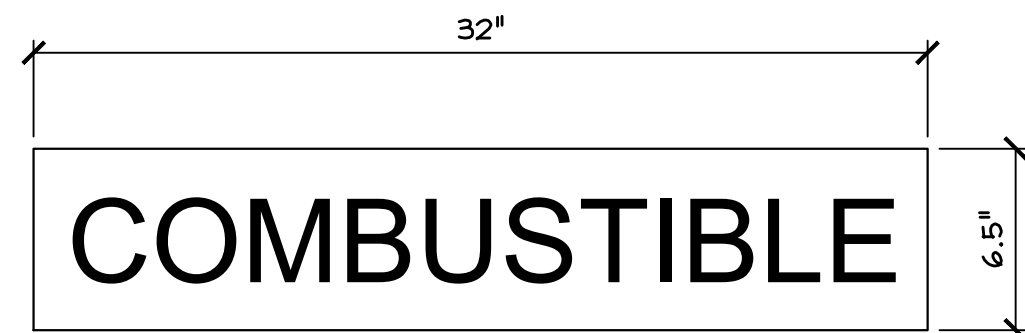
3

TYP. CONC. SLAB DETAIL (CABINET & GEN)

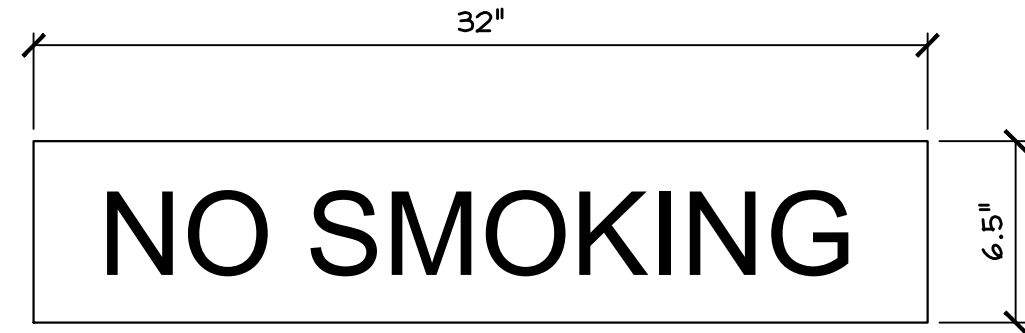
24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

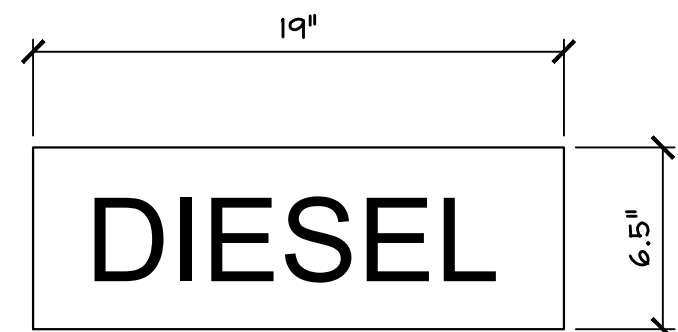
1



WHITE LETTERING
RED BACKGROUND
(SEE NOTES 2 & 6)



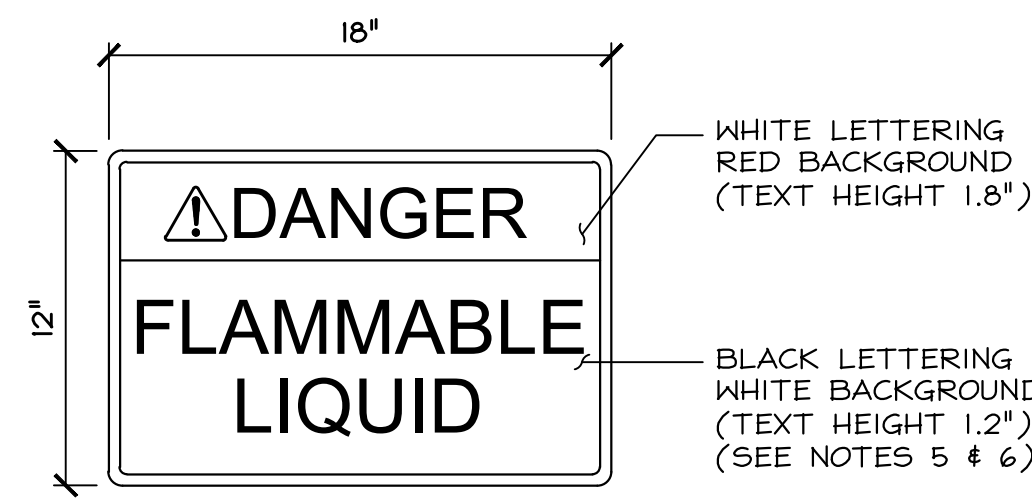
WHITE LETTERING
RED BACKGROUND
(SEE NOTES 2 & 6)



GREEN LETTERING
WHITE BACKGROUND
(SEE NOTES 2 & 6)

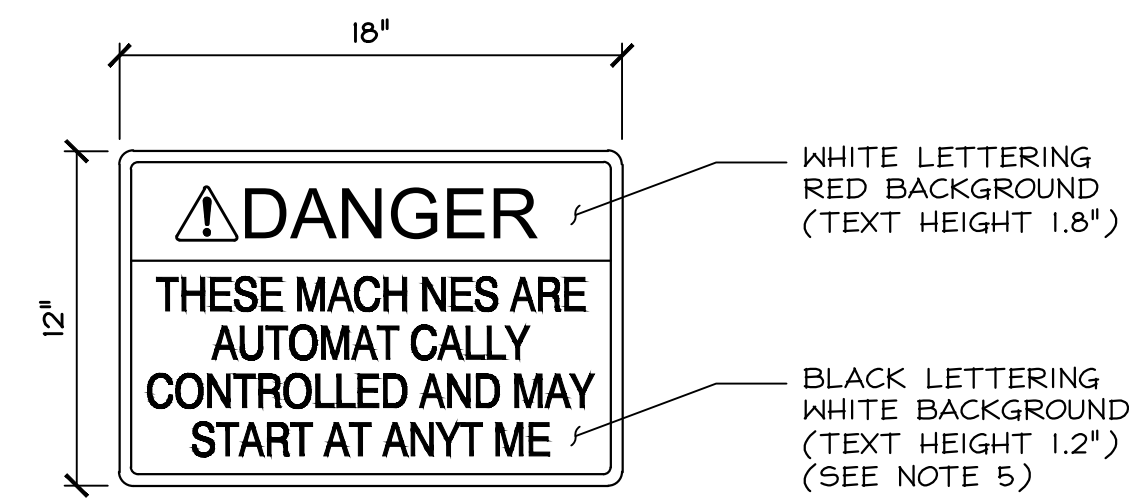
NOTES:

- SIGNS MUST BE MADE OF DURABLE MATERIAL.
- LETTERS SHALL NOT BE LESS THAN 3 INCHES (76.2MM) MINIMUM IN HEIGHT AND 1/2 INCH (12.7MM) IN STROKE UNLESS NOTED OTHERWISE.
- SIGNS SHALL NOT BE OBSCURED OR REMOVED AND SHALL BE AS A PRIMARY LANGUAGE.
- HAZARD IDENTIFICATION SIGN TO BE PLACED ON GENERATOR / FUEL TANK PER NFPA 704.
- DIMENSIONS OF DANGER SIGN IS RECOMMENDED SIZE
- APPLY SIGN/LABEL (STICKER) TO TANK



WHITE LETTERING
RED BACKGROUND
(TEXT HEIGHT 1.8")

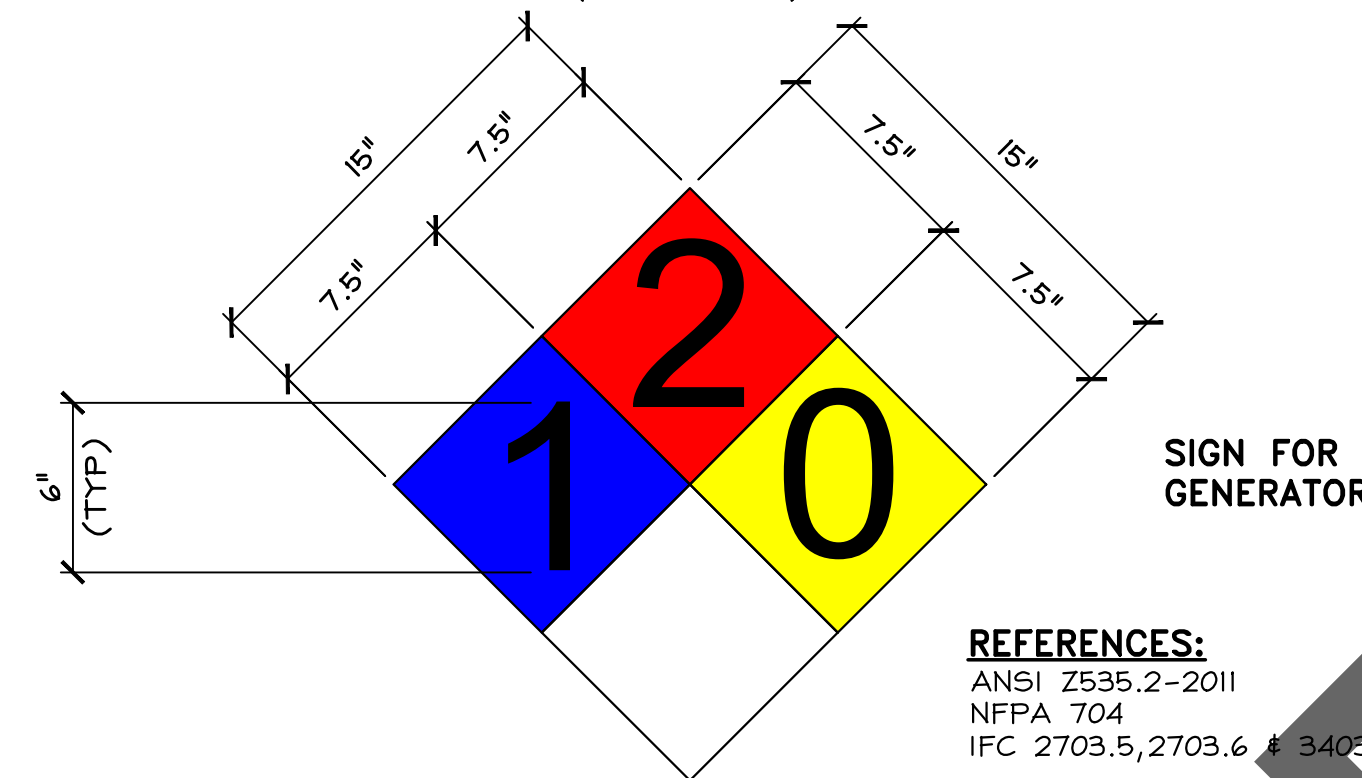
BLACK LETTERING
WHITE BACKGROUND
(TEXT HEIGHT 1.2")
(SEE NOTES 5 & 6)



WHITE LETTERING
RED BACKGROUND
(TEXT HEIGHT 1.8")

BLACK LETTERING
WHITE BACKGROUND
(TEXT HEIGHT 1.2")
(SEE NOTE 5)

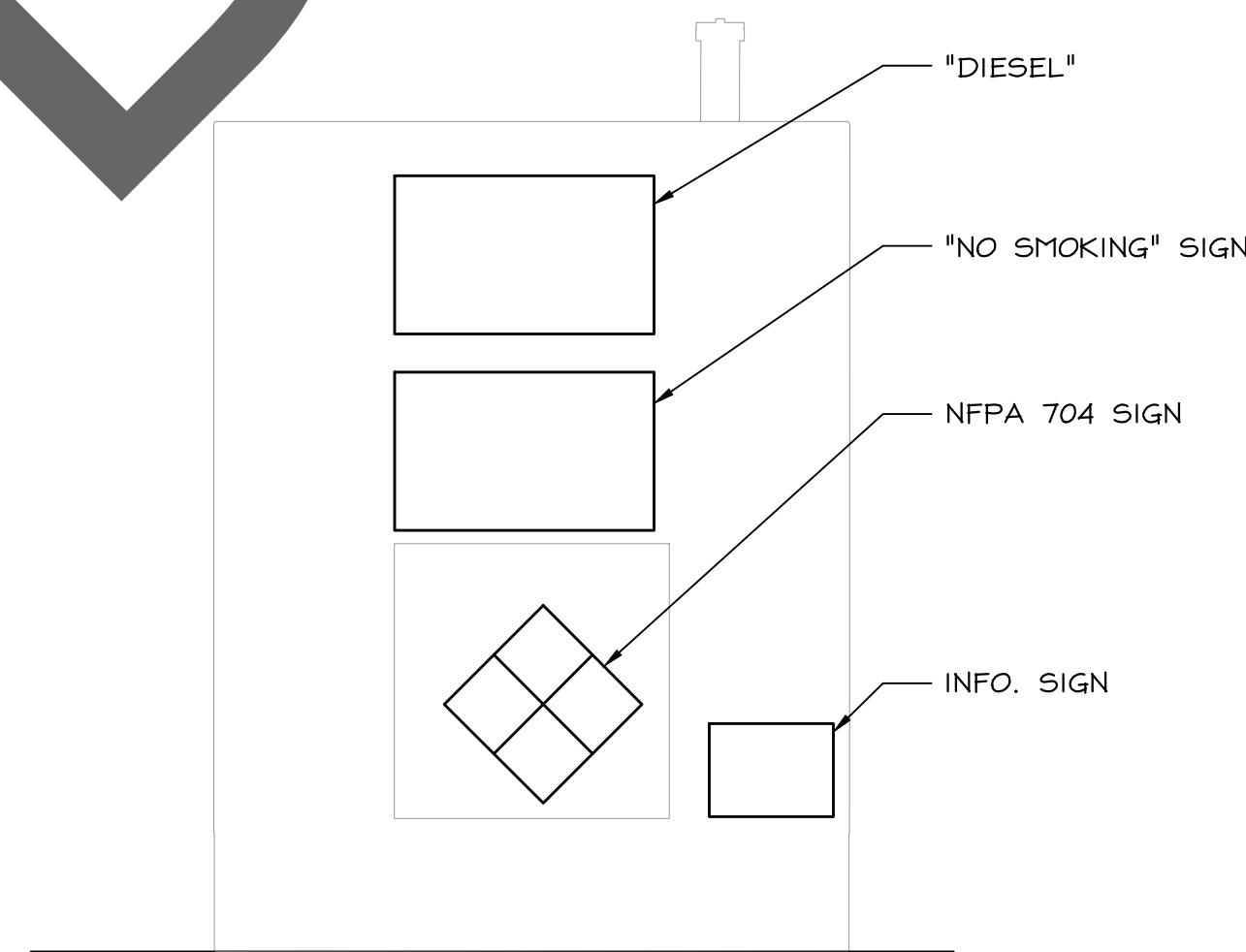
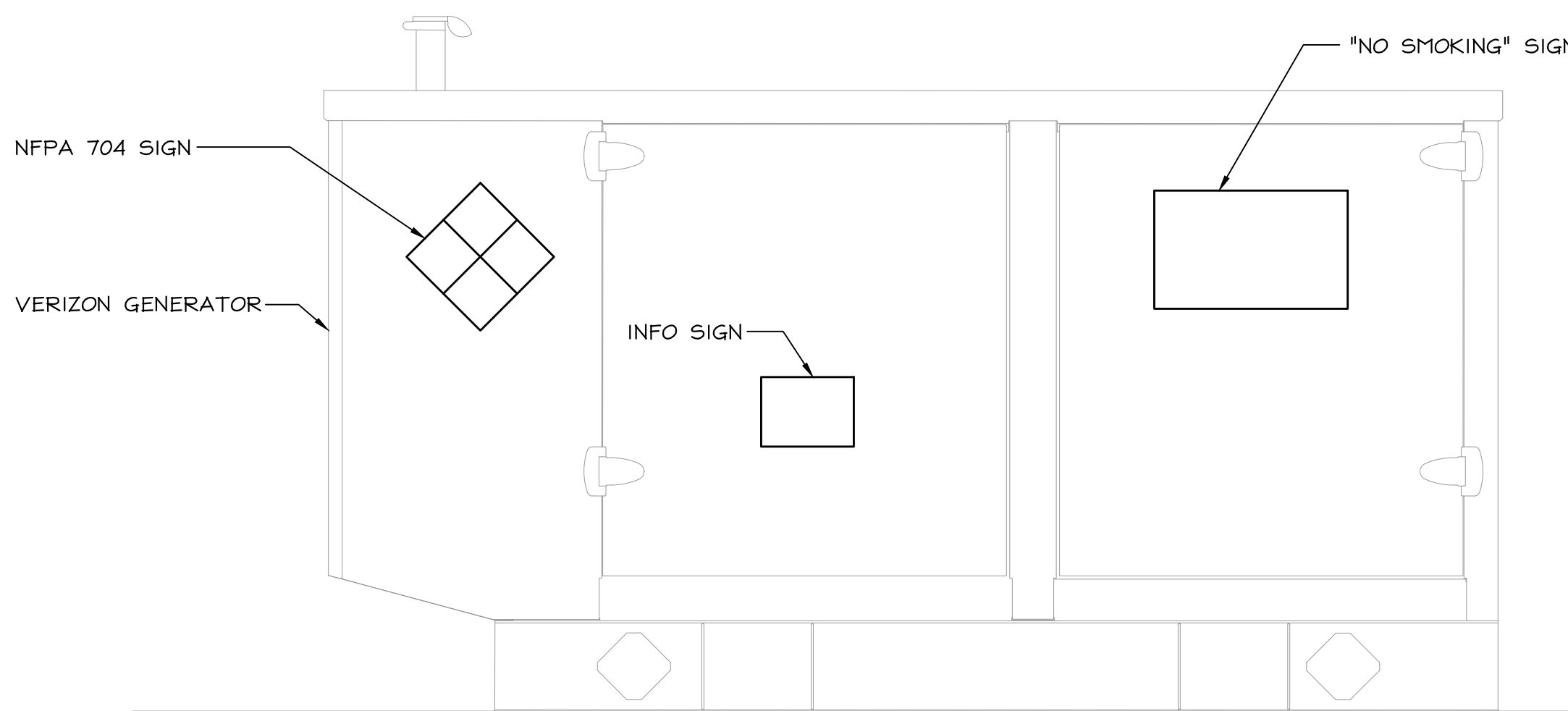
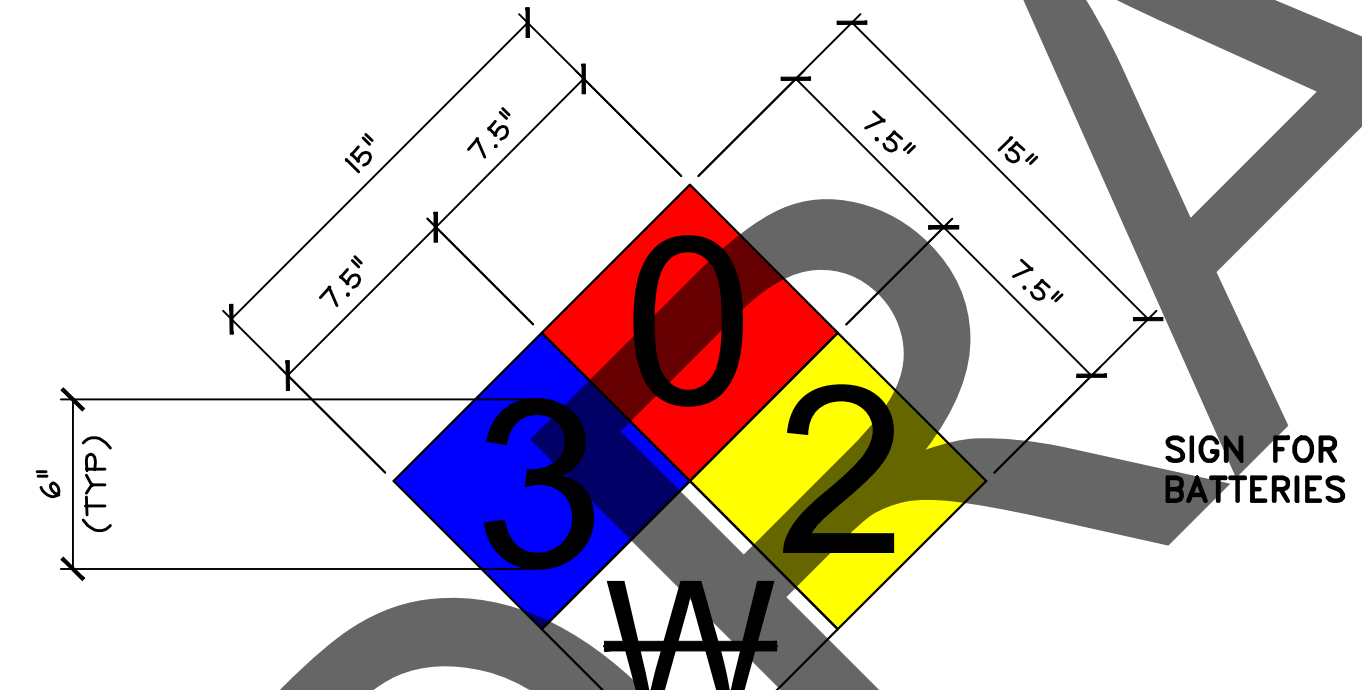
NFPA 704 HAZARD IDENTIFICATION SYSTEM 15" DIAMOND
(SEE NOTE 4)



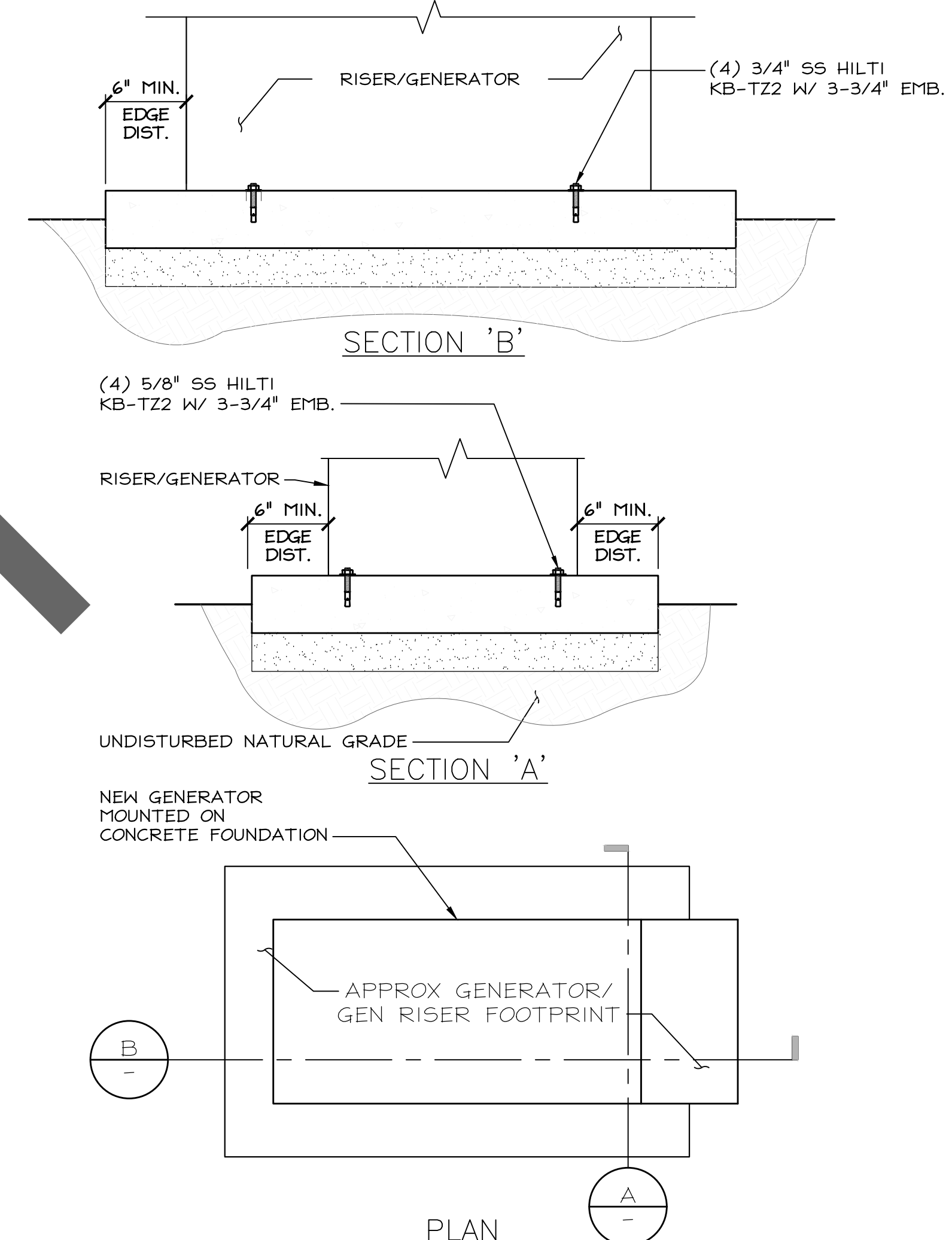
REFERENCES:
ANSI Z535.2-2011
NFPA 704
IFC 2703.5, 2703.6 & 3403.5

HAZARD RATINGS:

- NINE O'CLOCK - HEALTH (BLUE BACKGROUND BLACK LETTERING)
- TWELVE O'CLOCK - FLAMMABILITY (RED BACKGROUND BLACK LETTERING)
- THREE O'CLOCK - INSTABILITY (YELLOW BACKGROUND BLACK LETTERING)
- SIX O'CLOCK - SPECIAL (WHITE BACKGROUND BLACK LETTERING)

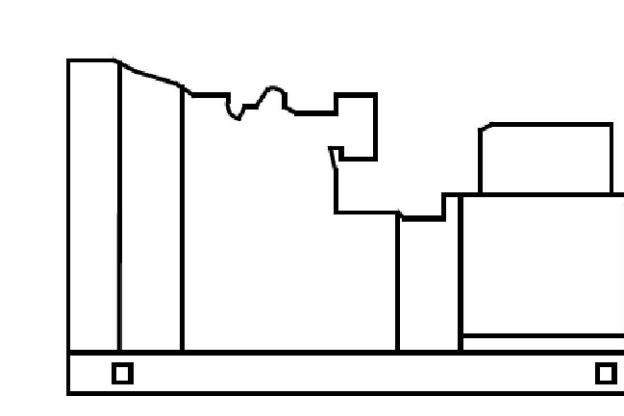


- NOTES:**
- PROPOSED GENERATOR (3.56 kips MAX. FULL WEIGHT; 2.11 kips MAX. EMPTY WEIGHT) ANCHORED TO NEW CONCRETE FOUNDATION USING S5304 (4) 3/4" SS HILTI KB-TZ2 W/ 3-3/4" EMB. WILL BE ADEQUATE FOR SUPPORT. (ESR-4266) SPECIAL INSPECTION REQUIRED
 - MAINTAIN MINIMUM 3" COVER AT ALL REINFORCING STEEL
 - KEEP A MINIMUM OF 6" CLEAR OF ALL EDGES

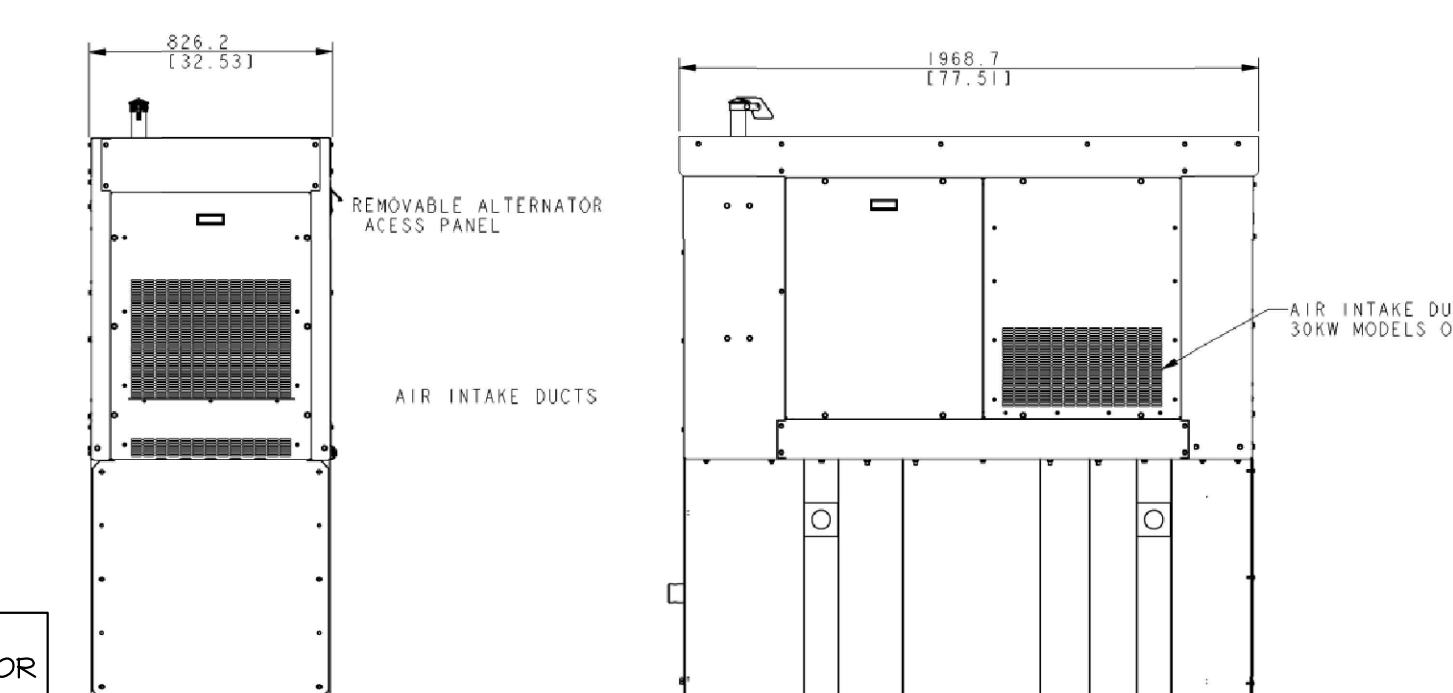


GENERATOR ANCHOR DETAIL 24"x36" SCALE: NTS 2
11"x17" SCALE: NTS

MANUFACTURER: KOHLER (OR APPROVED EQUAL)
MODEL: 30REOZK
DISPLACEMENT, IN³: 2.5L
FUEL: DIESEL
DIMENSIONS, LxWxH IN: 76.5"x32"x47.0"
WEIGHT: 1,130 LBS
USE 203 GAL. TANK



SEE 2/- FOR ANCHOR/MOUNTING



NOTES:
SEE D-7 & D-8 FOR MORE GENERATOR INFORMATION

GENERATOR WARNING SIGNS 24"x36" SCALE: NTS 3
11"x17" SCALE: NTS

GENERATOR DETAIL 24"x36" SCALE: NTS 1
11"x17" SCALE: NTS

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DEPLOYMENT SERVICES, INC.
1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2283

ALLSTATES
ENGINEERING & SURVEYING
23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT
DRAWN BY: LS
CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
MUSAM ZALZAL
71655
CIVIL
STATE OF CALIFORNIA

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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
GENERATOR WARNING SIGNS & DETAILS

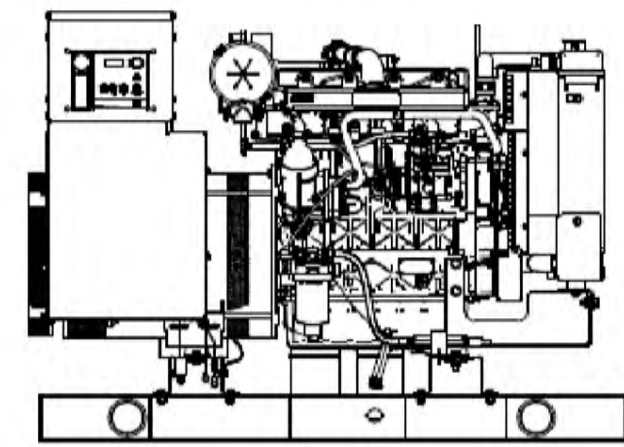
SHEET NUMBER
D-6

KOHLER. Model: 30REOZK
208-600 V Diesel

9001 EPA-Certified for Stationary Emergency Applications

Ratings Range

Standby:	kW	23-31	60 Hz
	kVA	23-39	
Prime:	kW	21-28	
	kVA	21-35	



Generator Set Ratings

Alternator	Voltage	Ph	Hz	130°C Rise		105°C Rise	
				Standby Rating	Prime Rating	Standby Rating	Prime Rating
405.6	120/208	3	60	28/36	101	26/33	80
	127/220	3	60	28/36	85	26/33	85
	120/240	3	60	28/36	87	26/33	78
	120/240	1	60	23/23	96	21/21	88
	138/240	3	60	28/36	87	26/33	78
	220/380	3	60	27/34	51	25/31	47
408.3	120/240	3	60	28/36	44	26/33	29
	347/600	3	60	28/36	35	26/33	31
	120/208	3	60	31/39	108	28/35	97
	127/220	3	60	31/39	102	28/35	92
	120/240	3	60	31/39	93	28/35	84
	120/240	1	60	29/29	121	26/26	108
4E5.6	138/240	3	60	31/39	33	28/35	84
	220/380	3	60	31/39	59	28/35	53
	277/480	3	60	31/39	47	28/35	42
	347/600	3	60	31/39	37	28/35	34
	120/240	1	60	29/29	121	26/26	108
	120/240	60	31/31	129	27/27	113	

Notes: All three phase units are three phase units. All single phase units are rated at 1.0 power factor. Standby Rating: Standby rating is applicable to varying loads for the duration of 100% overload. There is no overload capability for this rating. Prime Power Rating: All varying loads, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in a year. Ratings are in accordance with IEEE 603.04-1. For more ratings and continuous ratings, consult the factory. Check the technical information sheets (TMS-101) for ratings, generator set configurations, and site condition details. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. (06-486) (06REOZK) 2019

Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- The generator set engine is certified to meet the Environmental Protection Agency (EPA) emergency stationary emissions requirements.
- A one-year limited warranty covers all generator set systems and components. Two- and five-year extended limited warranties are also available.
- Alternator features:
 - Kohler's wound field excitation system with its unique PowerBoost™ design delivers great voltage response and short-circuit capability.
 - The brushless, rotating-field alternator has broadrange reconfigurability.
- Other features:
 - Kohler designed controllers for one-source system integration and remote communication. See Controllers on page 8.
 - The low coolant level shutdown prevents overheating (standard on radiator models only).
 - Integral vibration isolation eliminates the need for under-unit vibration spring isolators.

Application Data

Cooling

Radiator System	
Ambient temperature, °C (°F) *	50 (122)
Engine jacket water capacity, L (gal.)	4.4 (1.6)
Radiator system capacity, including engine, L (gal.)	11.4 (3)
Engine jacket water flow, Lpm (gpm)	59.0 (15.6)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	27.0 (1536)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	406 (16.0)
Fan, kW (BHP)	0.6 (0.8)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	0.125 (0.5)

* Enclosure reduces ambient temperature capability by 5°C (9°F).

Controller



- APM402 Controller**
Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.
- Digital display and menu control provide easy local data access
 - Measurements are selectable in metric or English units
 - Remote communication thru a PC via network or serial configuration
 - Controller supports Modbus™ protocol
 - Integrated hybrid voltage regulator with ±0.5% regulation
 - Built-in alternator thermal overload protection
 - NFPA 110 Level 1 capability
- Refer to G6-161 for additional controller features and accessories.

Operation Requirements

Air Requirements

Radiator-cooled cooling air, m ³ /min. (cfm) †	53.8 (190)
Combustion air, m ³ /min. (cfm)	2.7 (96.9)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	10.2 (587)
Alternator, kW (Btu/min.)	6.7 (381)
Max. air intake restriction, kPa (in. Hg)	3.0 (0.88)

† Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Fuel Consumption

Diesel, Lph (gph) at % load	Standby Rating
100%	9.8 (2.6)
75%	7.5 (2.1)
50%	5.7 (1.5)
25%	3.4 (0.9)

Diesel, Lph (gph) at % load	Prime Rating
100%	9.1 (2.4)
75%	7.2 (1.9)
50%	5.3 (1.4)
25%	3.0 (0.8)

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating-Field
Exciter type	Brushless, Wound Field
Leads: quantity, type	12, Reconnectable
	4, 110-120/220-240 V
	Solid State, Volts/Hz
Voltage regulator	Class H
Insulation	NEMA MG1
Material	Class H
Temperature rise	130°C, Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Voltage regulation, no-load to full-load	Controller Dependent
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby Current

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Capable of sustained 90% to neutral short-circuit current of up to 300% of the rated current for up to 2 seconds. (IEC 60092-301 motor cut performance.)
- Sustained short-circuit current enabling slow-trip circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and drip-proof construction.
- Windings are vacuum-impregnated with epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.

Engine

Engine Specifications	Engine Electrical
Manufacturer	Kohler Diesel
Engine model	KD12504TMG18
Engine type	4-Cycle, Turbocharged
Cylinder arrangement	4 In-line
Displacement, L (cu. in.)	2.5 (158)
Bore and stroke, mm (in.)	88 x 102 (3.46 x 4.02)
Compression ratio	18:1
Platen speed, min./min. (ft./min.)	357 (1205)
Main bearings: quantity, type	5, Sleeve
Rated rpm	1800
Max. power at rated rpm, kW (BHP)	36.4 (48.8)
Cylinder head material	Cast Iron
Crankshaft material	Cast Iron
Valve material:	
Intake	Stainless Steel
Exhaust	Stainless Steel
Governor: type, make/model	Mechanical (or Electronic *)
Frequency regulation, no-load to full-load	Drop, 5% (or Isochr. *)
Frequency regulation, steady state	±0.5%
Frequency	Fixed
Air cleaner type, all models	Dry
* Requires available electronic governor option	

- Specifications**
- | Specifications | Alternator |
|-------------------------|---------------------------|
| Peak motor starting kVA | 100% (for voltages below) |
| 480 V | 403.6 (112.4) |
| 480 V | 408.3 (112.4) |
| 240 V | 458.8 (124.4) |
| 240 V | 458.3 (124.4) |

- Fuel**
- Fuel System**
- | | |
|--|-------------|
| Fuel supply line, min. ID, mm (in.) | 8.0 (0.31) |
| Fuel return line, min. ID, mm (in.) | 6.0 (0.25) |
| Max. lift, electric fuel pump, m (ft.) | 3.0 (10.0) |
| Max. fuel flow, Lph (gph) | 46.0 (12.2) |
| Max. return line restriction, kPa (in. Hg) | 20 (5.9) |
- Fuel filter
- | | |
|-------------------------|----------------------------|
| Prefilter | 74 Microns |
| Primary/Water Separator | 5 Microns @ 98% Efficiency |
- Recommended fuel #2 Ultra Low Sulfur Diesel

- Lubrication**
- Lubricating System**
- | | |
|---------------------------------------|---------------|
| Type | Full Pressure |
| Oil pan capacity, L (qt.) | 10.7 (11.2) |
| Oil pan capacity with filter, L (qt.) | 11 (11.6) |
| Oil filter: quantity, type | 1, Cartridge |
| Oil cooler | — |
- § Kohler recommends the use of Kohler Genuine oil and filters.

KOHLER.

Additional Standard Features

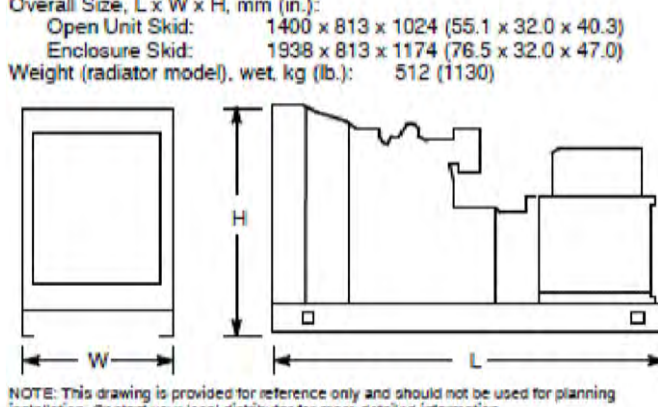
- 4000 Series Heavy Duty with Air Cleaner Restriction Indicator
- Alternator Protection
- Battery Rack and Cables
- Closed Crankcase Ventilation
- Oil Drain and Coolant Drain with Hose Barb
- Oil Drain Extension (with enclosure models only)
- Operation and Installation Literature
- Stainless Steel Fasteners on Enclosure (with enclosure models only)
- Rotor Guards

Available Options

- Approvals and Listings**
- CSA Certified
 - IBC Seismic Certification
 - UL2200 Listing
- Enclosed Unit**
- Sound Enclosure (with enclosed critical silencer)
 - Weather Enclosure (with enclosed critical silencer)
 - Stainless Steel Latches and Hinges
- Open Unit**
- Exhaust Silencer, Critical (kit: PA-352663)
 - Flexible Exhaust Connector, Stainless Steel
- Fuel System**
- Flexible Fuel Lines
 - Fuel Pressure Gauge
 - Subbase Fuel Tanks
- Controller**
- Two Input/Five Output Module
 - Manual Speed Adjust (requires Electronic Governor)
 - Remote Annunciator Panel
 - Remote Emergency Stop
 - Run Relay
- Cooling System**
- Block Heater (500 W, 110-120 V) Required for ambient temperatures below 0°C (32°F).
 - Radiator Dust Flange
- Electrical System**
- Alternator Strip Heater
 - Battery
 - Battery Charger, Equalize/Float Type
 - Battery Heater
 - Electronic Governor
 - Line Circuit Breaker (NEMA type 1 enclosure)
 - Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure)

- Miscellaneous**
- Engine Fluids Added
 - Rated Power Factor Testing
- Literature**
- General Maintenance
 - NFPA 110
 - Overhaul
 - Production
- Warranty**
- 2-Year Basic Limited Warranty
 - 5-Year Basic Limited Warranty
 - 5-Year Comprehensive Limited Warranty
- Other Options**
- -
 -
 -

Dimensions and Weights



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

DISTRIBUTED BY:

NOTES:
SEE D-8 FOR
MORE TANK
INFORMATION

verizon
2770 SHADELANDS DRIVE
BUILDING II
WALNUT CREEK, CA 94598

SEQUOIA
DEPLOYMENT SERVICES, INC.
1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2283

ALLSTATES
ENGINEERING & SURVEYING
23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT

DRAWN BY: LS

CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED TWR DWGS.	SS
0	12/05/2024	100% CD's FOR SUBMITTAL	SS
A	11/01/2024	80% CD's FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
 MUSAAM ZALZAL
 71655
 CIVIL
 STATE OF CALIFORNIA

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PASO ROBLES AIRPORT
 BEACON LIGHT TOWER:
 4960 WING WAY
 PASO ROBLES, CA 93446

SHEET TITLE
GENERATOR SPECIFICATIONS

SHEET NUMBER
D-7

REV	DATE	DESCRIPTION	BY
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

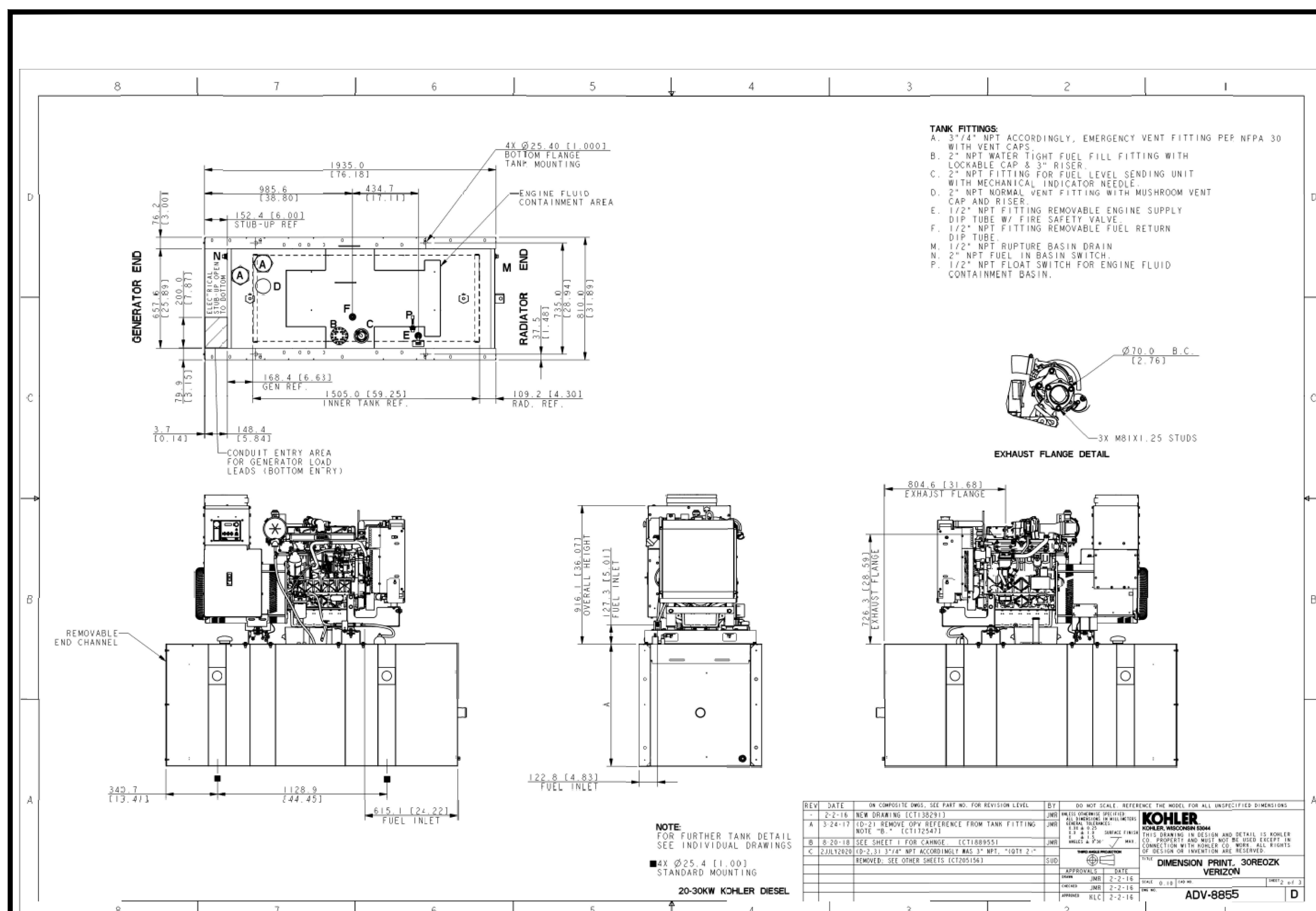


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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
TANK SPECIFICATIONS

SHEET NUMBER
D-8



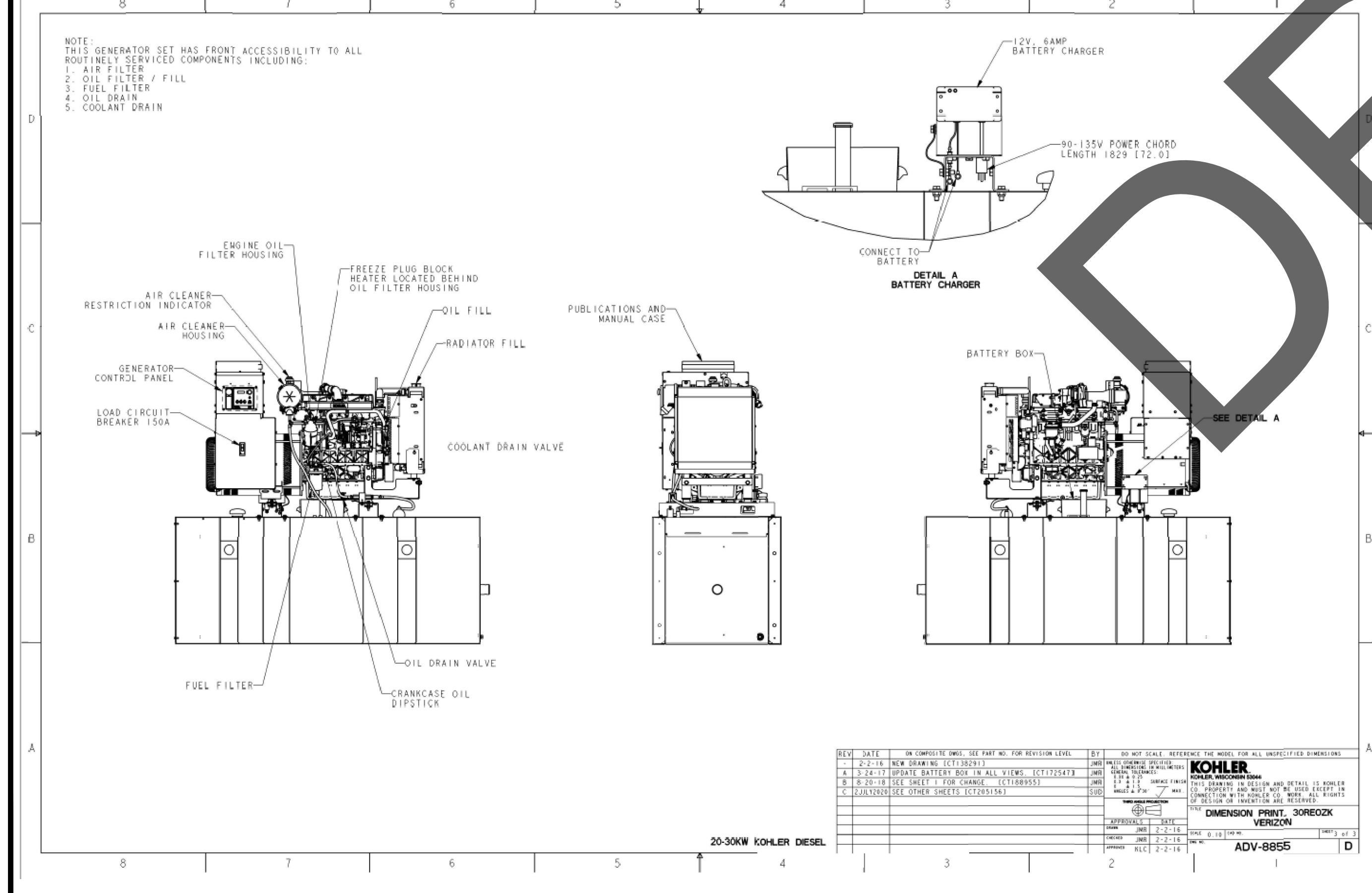
NOTES

- BOTH SIDES OF THE GENERATOR ARE SERVICE ACCESSIBLE WITH EASY ACCESS SERVICE DOORS.
- AMP BATTERY CHARGER.
- 120VAC ENGINE BLOCK HEATER.
- GENERATOR MUST BE GROUNDED.
- SOUND ATTENUATED ENCLOSURE STANDARD WITH GENERATOR.
- MUST ALLOW FREE FLOW OF DISCHARGE AIR AND CLEARANCE TO THE REAR SIDE OF THE GENERATOR ONLY.
- MUST ALLOW FREE FLOW OF INTAKE AIR.
- EASY ACCESS SERVICE PANEL IS LOCATED ON THE REAR TANK STUB-UP AREA.
- BASE TANK REQUIRES ALL STUD-UPS TO BE INSTALLED ON THE REAR TANK STUB-UP AREA.
- TANK EQUIPPED WITH FIRE SAFETY VALVE ON FUEL SUPPLY LINE.
- IT IS THE RESPONSIBILITY OF THE INSTALLER OR TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.
- GENERATOR IS INSTALLED ON A CONCRETE DOUBLE WALL SOURCE FUEL TANK.

REV	DATE	DESCRIPTION	BY
1	2-2-18	NEW DRAWING (1712021)	ADV
A	3-24-17	10-2" REMOVE OFF DIFFERENCE FROM TANK FITTING (1712021)	ADV
B	8-20-18	SEE SHEET 1 FOR CHANGE (1712021)	ADV
C	12-15-18	SEE SHEET 1 FOR CHANGE (1712021)	ADV

20-30KW KOHLER DIESEL SOUND ENCL. W/ LIFT OFF PANEL

ADV-8855



ELECTRICAL INSTALLATION METHODS:

- THIS INSTALLATION SHALL COMPLY WITH THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND WITH UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
- INSTALL SUFFICIENT LENGTHS OF LFMC INCLUDING ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC) NECESSARY FOR CONNECTION FROM IMC OR PVC CONDUIT TO THE INTERIOR OF THE BTS CABINET.
- POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THHN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.
- CUT, COIL AND TAPE A 3 FOOT PIGTAIL FROM END OF LFMC FOR TERMINATING BY BTS EQUIPMENT MANUFACTURER.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THHN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION, LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS OR BELOW GRADE SHALL BE SINGLE CONDUCTOR #2 AWG SOLID, TINNED, COPPER CABLE.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC. CABLE (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THHN-2, CLASS B, STRANDED COPPER CABLE RATED FOR 90°C (WET OR DRY) OPERATION, WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- NEW RACEWAY OR CABLE TRAY SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP STYLE, COMPRESSION, WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C.
- EACH END OF EVERY POWER, GROUNDING AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR CODED INSULATION OR ELECTRICAL TAPE. THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (PANELBOARD AND CIRCUIT IDENTIFICATION).
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- RIGID NONMETALLIC CONDUIT (PVC SCHEDULE 40 OR PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- ALL CONDUIT RUN ABOVE GROUND OR EXPOSED SHALL BE LFMC, IMC OR RIGID STEEL.
- ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- CABINETS, BOXES AND WIREWAYS SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC. THE SITE SPECIFIC LIGHTNING PROTECTION CODE AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- ALL ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GESS) SHALL BE BONDED TOGETHER AT OR BELOW GRADE BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION SIZED IN ACCORDANCE WITH THE NEC SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH INDOOR BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH SUPPLEMENTAL EQUIPMENT GROUND WIRES #6 OR LARGER.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- SURFACES TO BE CONNECTED TO GROUND CONDUCTORS SHALL BE CLEANED TO A BRIGHT SURFACE AT ALL CONNECTIONS.
- EXPOSED GROUND CONNECTIONS SHALL BE MADE WITH COMPRESSION CONNECTORS WHICH ARE THEN BOLTED TO EQUIPMENT USING STAINLESS STEEL HARDWARE. INSTALLATION TORQUE SHALL BE PER MANUFACTURER'S REQUIREMENTS.
- DC POWER CABLES SHALL BE COBRA COP-FLEX 2000, FLEXIBLE CLASS B OR APPROVED EQUAL.

ELECTRICAL NOTES

GENERAL REQUIREMENTS:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.
- THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
- THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL WORK NOT MENTIONED OR SHOWN WHICH IS NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.
- THE CONTRACTOR SHALL PREPARE A BID FOR A COMPLETE AND OPERATIONAL SYSTEM, WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.
- WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION.

DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ENGINEER.

- COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. ARRANGE ANY OUTAGE OF SERVICE WITH THE OWNER AND BUILDING MANAGER IN ADVANCE. MINIMIZE DOWNTIME ON THE BUILDING ELECTRICAL SYSTEM.
- THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE DELIVERED IN PROPER WORKING ORDER. REPLACE, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTIVE MATERIAL AND EQUIPMENT WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.
- "PROVIDE" INDICATES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.
- CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES

EQUIPMENT LOCATION:

- THE DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATIONS OR ARRANGEMENTS OF CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.
- IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF FURNISHINGS OR EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST, PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO THE SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- LIGHTING FIXTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. COORDINATE THE FIXTURE LOCATION WITH MECHANICAL EQUIPMENT TO AVOID INTERFERENCE.
- COORDINATE THE WORK OF THIS SECTION WITH THAT OF ALL OTHER TRADES, WHERE CONFLICTS OCCUR, CONSULT WITH THE RESPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY, OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER FOR THE PROPOSED CHANGES BEFORE PROCEEDING.

SHOP DRAWINGS:

- N/A UNLESS NOTED OTHERWISE.

SUBSTITUTIONS:

- NO SUBSTITUTIONS ARE ALLOWED

TESTS:

- BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL INSURE THAT ALL EQUIPMENT, SYSTEMS, FIXTURES, ETC., ARE WORKING SATISFACTORILY AND TO THE INTENT OF THE DRAWINGS.

PERMITS:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING OUT AND PAYING FOR ALL REQUIRED PERMITS, INSPECTION AND EXAMINATION WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

GROUNDING:

- THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
- FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.
- REFER TO GROUND BUS DETAILS. PROVIDE NEW GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.
- ALL GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
- ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED THHN (GREEN) INSULATION.
- ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
- PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
- GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

UTILITY SERVICE:

- TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS. SERVICE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITIES.
- CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

PRODUCTS:

- ALL MATERIALS SHALL BE NEW, CONFORMING WITH NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH

EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.

B) ELECTRICAL METALLIC TUBING SHALL U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.

C) FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.

D) CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.

E) ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE

F) ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.

G) CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON 4x4 REDWOOD SLEEPERS, 6'-0" ON CENTER, SET IN NON-HARDENING MASTIC.

3. ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.

4. PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.

5. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH (UNLESS NOTED BY ENGINEER), 20 AMP, 125 VOLT, THREE WIRE GROUNDING TYPE, NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTER TYPE WITH SIERRA #WPD-8 LIFT COVERPLATES.

6. TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.

7. PANELBOARDS SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-MAKE QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARDS AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY.

8. ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

9. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.

INSTALLATION:

1. PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC. SUPPORT LUMINARIES FROM UNDERSIDE OF STRUCTURAL CEILING. EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.

2. CUTTING, PATCHING, CHASES, OPENINGS: PROVIDE LAYOUT IN ADVANCE TO ELIMINATE UNNECESSARY CUTTING OR DRILLING OF WALLS, FLOORS CEILINGS, AND ROOFS. ANY DAMAGE TO BUILDING STRUCTURE OR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. OBTAIN PERMISSION FROM THE ENGINEER BEFORE CORING.

3. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER THE CIRCUMSTANCES.

4. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.

5. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE C.B.C.

PROJECT CLOSEOUT:

1. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALLS DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.

2. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.

3. ALL BROCHURES, OPERATING MANUALS, CATALOG, SHOP DRAWINGS, ETC., SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.



2770 SHADELANDS DRIVE
BUILDING 11
WALNUT CREEK, CA 94598



1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2263



23675 BIRTCHEER DRIVE
LAKE FOREST, CA 92630

PROJECT ID:	PASO ROBLES AIRPORT
DRAWN BY:	LS
CHECKED BY:	SS

REV	DATE	DESCRIPTION	
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

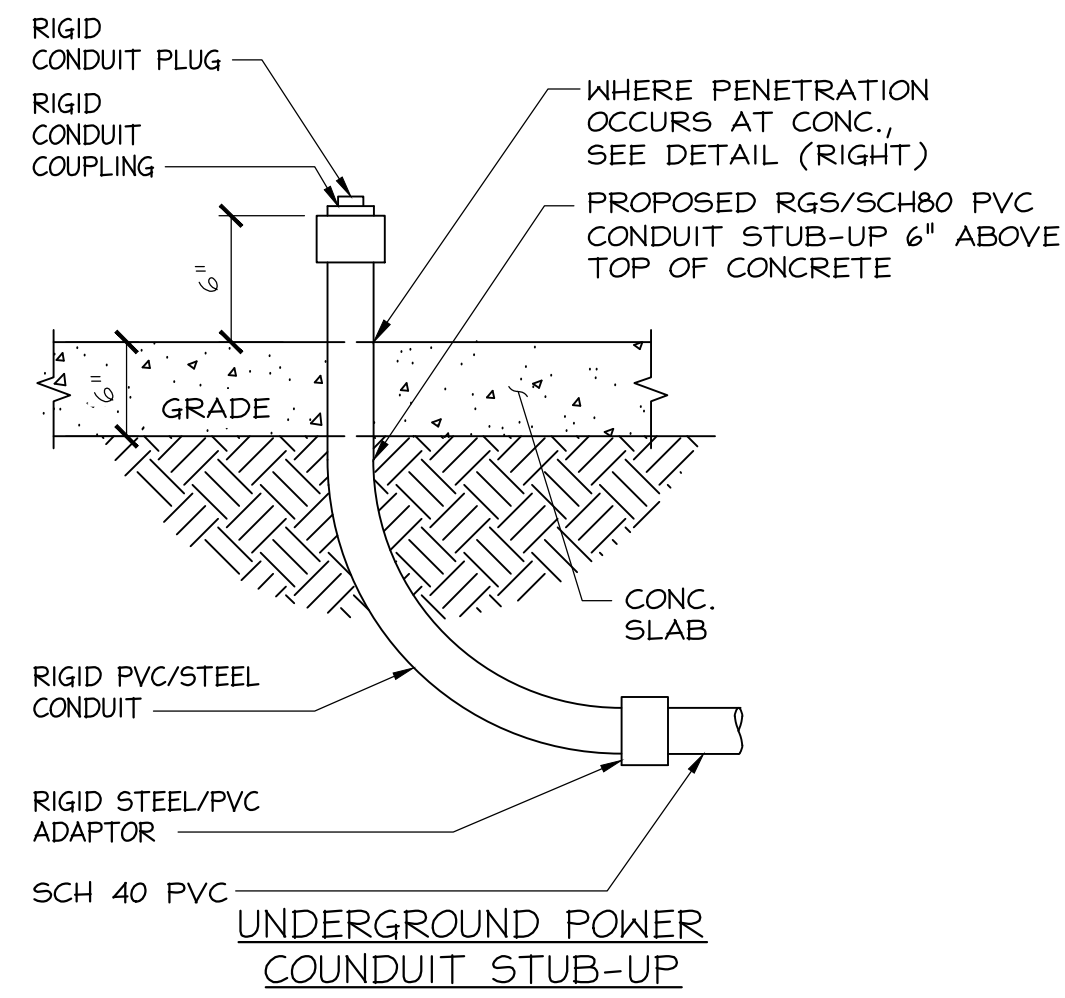


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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

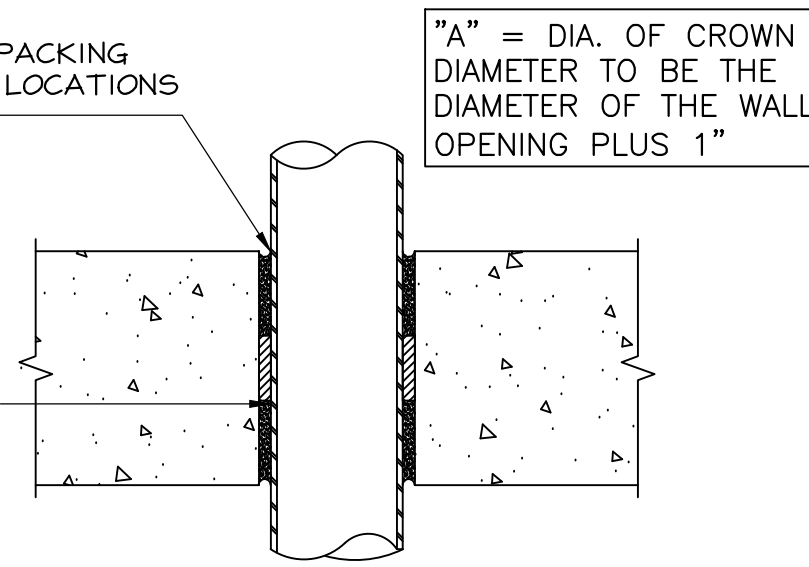
SHEET TITLE
ELECTRICAL &
GROUNDING NOTES

SHEET NUMBER
E-1



NO FIRESTOP SYSTEM OR ANNULAR PACKING MATERIAL IS REQUIRED AT OUTDOOR LOCATIONS (CONCRETE SLAB ON GRADE)

ONE 3" SCH 40/80 PVC PIPE TO BE CENTERED WITH IN FIRESTOP SYSTEM. A NOM ANNULAR SPACE OF 5/16" IS REQUIRED WITHIN THE FIRESTOP SYSTEM PIPE SHALL BE RIGIDLY SUPPORTED ON TOP OF PAD.



- NOTES:
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO INSTALLATION OF A WALL SUPPORTED UNISTRUT SYSTEM.
 - ALL PENETRATIONS SHALL CONFORM TO TITLE 24, CALIF. BLDG. CODE, SECTION 714.

CONDUIT PENETRATION AT CONCRETE

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4

POWER CONDUIT ROUTING

NOTES:

- SUBCONTRACTOR SHALL PROVIDE "200"AMP, SINGLE PHASE, 120/240 (OR 120/208) VAC, 60HZ SERVICE FOR THIS SITE
- SUBCONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY BEFORE THE START OF CONSTRUCTION. POWER AND TELEPHONE CONDUIT SHALL BE PROVIDED AND INSTALLED PER UTILITY REQUIREMENTS
- FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY ILC MANUFACTURER.
- ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE CURRENT EDITION(S) OF N.E.C., CALIFORNIA ELECTRICAL CODE, UTILITY COMPANY STANDARDS (GREENBOOK) AND LOCAL CODE REQUIREMENTS.
- SUBCONTRACTOR SHALL INSTALL 3/8" OF FLEX CONDUIT WITH ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC.) NECESSARY FOR CONNECTION TO THE EQUIPMENT
- SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY
- CUT, COIL AND TAPE A 10 FOOT PIGTAIL FROM END OF FLEX CONDUIT FOR TERMINATING BY CARRIER REP.
- SUBCONTRACTOR SHALL FURNISH AND INSTALL A PIPE/UNISTRUT FRAME OR SUITABLE PEDESTAL OR WALL-MOUNTS FOR INSTALLATION OF ILC CABINET AND METER COMPONENTS. SUBCONTRACTOR SHALL FURNISH AND INSTALL SURGE PROTECTION DEVICES, BOND SURGE PROTECTION DEVICE RAIL TO THE ENCLOSURE WITH #6 AWG INSULATED WIRE. BOND ENCLOSURE TO THE SITE GROUND RING OR BAR WITH #2 AWG COPPER WIRE.
- GENERAL CONTRACTOR TO NOTIFY ALL STATES ENGINEERING & SURVEYING IF THERE ARE ANY DISCREPANCIES BETWEEN THE ACTUAL SITE CONDITIONS AND THE DRAWINGS.
- ALL WORK TO BE COMPLETED WITH NFPA 70E AND OSHA TITLE 29.
- ALL BOXES AND ENCLOSURES (INCLUDING TRANSFER SWITCHES, GENERATORS AND POWER PANELS) FOR EMERGENCY CONDUITS SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIABLE AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM.
- PROVIDE A MINIMUM OF 36" WORK CLEARANCE IN FRONT OF PANEL / EQUIPMENT.
- ALL WIRING SHALL BE COPPER RATED FOR 75° C.
 - TYPE THWN OR PER 310.10 (B) FOR DRY AND DAMP LOCATION.
 - TYPE THWN OR PER 310.10 (C) FOR WET LOCATION.

ELECTRICAL NOTES

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

VOLTAGE, PHASE, WIRES: 120/240V, 1 PHASE, 3W MAIN: 2P/200A										'ILC' PANEL 'A'										ENCLOSURE: NEMA 3R BRACING: 22KAIC MOUNTING: SURFACE MOUNT									
WIRE SIZES	CKT NO	AMPS	P	LTG	REC	MISC	QTY	DESCRIPTION	LOAD (WATTS)	LOAD	A	B	LOAD	DESCRIPTION	MISC	REC	LTG	P	AMPS	CKT NO	WIRE SIZES								
#8	1	30	2				1	RECTIFIER #1	1800	3600			1800	RECTIFIER #2					2	30	2	#8							
#8	3								1800				1800																
#8	5	30	2				1	RECTIFIER #3	1800	3600			1800	RECTIFIER #4					2	30	6	#8							
#8	7								1800				1800																
#8	9	30	2				1	RECTIFIER #5	1800	3600			1800	RECTIFIER #6					2	30	10	#8							
#8	11								1800				1800																
#8	13	30	2				1	RECTIFIER #7	1800	3600			1800	RECTIFIER #8					2	30	14	#8							
#8	15								1800				1800																
#12	17	20	1				2	GFI	360	360				SURGE SUPPRESSION					2	30	18	#8							
#12	19	20	1				1	BATTERY CHARGER	360				360								20								
#12	21	20	1				1	BATTERY CHARGER	480	680			200	LED SERVICE LIGHT					4	1	20	22	#12						
	23							SPACE						SPACE								24							
	25							SPACE						SPACE								26							
	27							SPACE						SPACE								28							
	29							SPACE						SPACE								30							
	31							SPACE						SPACE								32							
	33							SPACE						SPACE								34							
	35							SPACE						SPACE								36							
	37							SPACE						SPACE								38							
	39							SPACE						SPACE								40							
	41							SPACE						SPACE								42							
PHASE TOTALS (WATTS)									15440	14760																			
PHASE BALANCE									51%	49%																			
TOTAL CONNECTED LOAD (WATTS)									30150																				
25% OF LONG CONTINUOUS LOAD (LCL) AND LARGEST MOTOR									140																				
MAX LINE TOTAL LOAD (WATTS)									30290																				
MAX LINE TOTAL LOAD (AMPS)									126.2																				

NOTE: CL = LONG CONTINUOUS LOAD
LML = LARGEST MOTOR LOAD
UM = UTILITY MAIN CIRCUIT BREAKER
GM = GENERATOR MAIN CIRCUIT BREAKER
SEE SINGLE LINE DIAGRAM FOR WIRING DIAGRAM

PANEL SCHEDULE

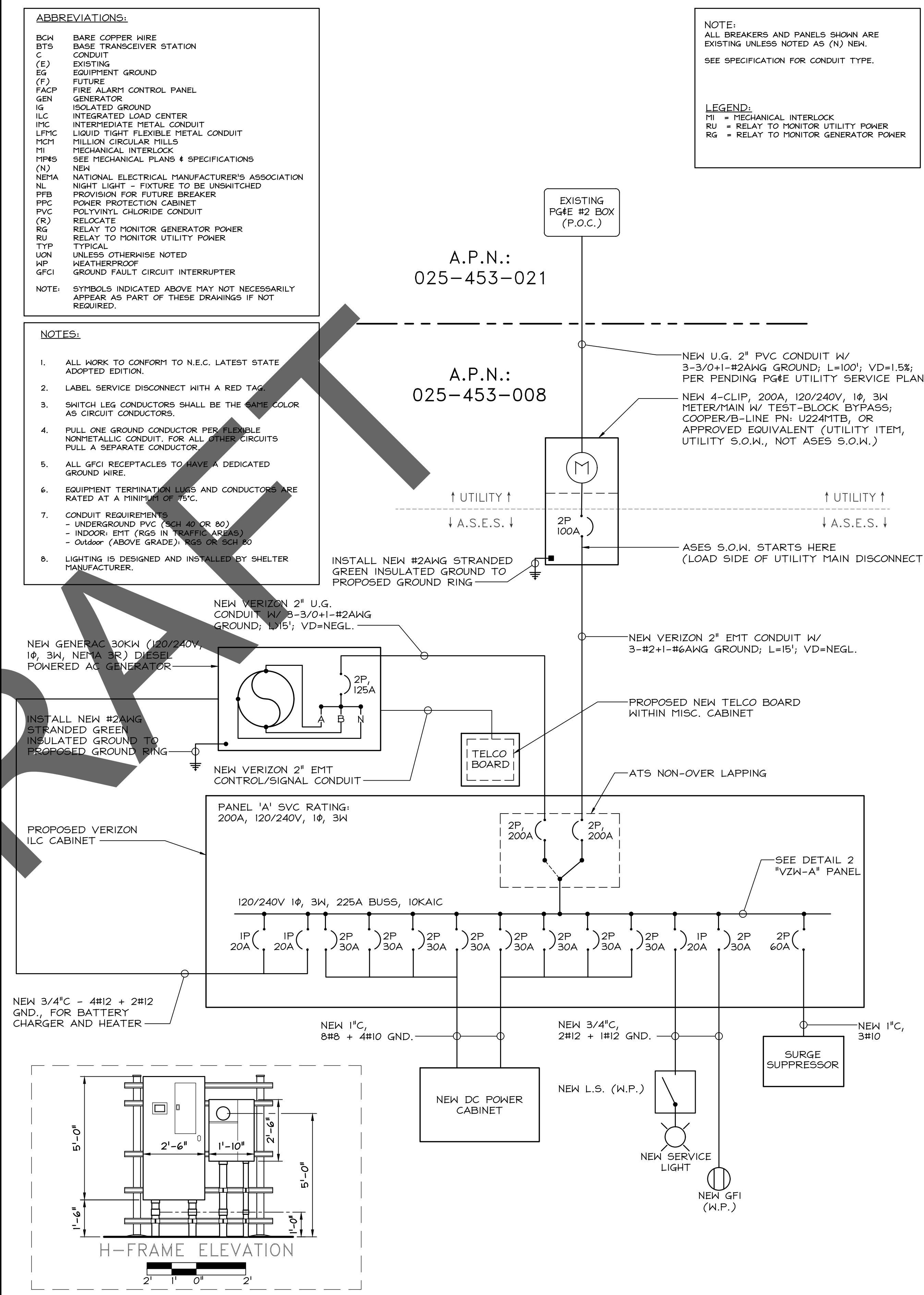
24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

SINGLE-LINE DIAGRAM

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1



- ABBREVIATIONS:
- BCW BARE COPPER WIRE
 - BTS BASE TRANSCEIVER STATION
 - C CONDUIT
 - (E) EXISTING
 - EG EQUIPMENT GROUND
 - (F) FUTURE
 - FACP FIRE ALARM CONTROL PANEL
 - GEN GENERATOR
 - IG ISOLATED GROUND
 - ILC INTEGRATED LOAD CENTER
 - IMC INTERMEDIATE METAL CONDUIT
 - LFTMC LIQUID TIGHT FLEXIBLE METAL CONDUIT
 - MCM MILLION CIRCULAR MILLS
 - MI MECHANICAL INTERLOCK
 - MIMS SEE MECHANICAL PLANS & SPECIFICATIONS
 - (N) NEW
 - NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
 - NL NIGHT LIGHT - FIXTURE TO BE UNSWITCHED
 - PFIB PROVISION FOR FUTURE BREAKER
 - PFC POWER PROTECTION CABINET
 - PVC POLYVINYL CHLORIDE CONDUIT
 - REL RELocate
 - RG RELAY TO MONITOR GENERATOR POWER
 - RU RELAY TO MONITOR UTILITY POWER
 - TYP TYPICAL
 - UN UNLESS OTHERWISE NOTED
 - WP WEATHERPROOF
 - GFCI GROUND FAULT CIRCUIT INTERRUPTER
- NOTE: SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

- NOTES:
- ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
 - LABEL SERVICE DISCONNECT WITH A RED TAG.
 - SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
 - PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
 - ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
 - EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.
 - CONDUIT REQUIREMENTS:
 - UNDERGROUND PVC (SCH 40 OR 80)
 - INDOOR: EMT (RGS IN TRAFFIC AREAS)
 - OUTDOOR (ABOVE GRADE): RGS OR SCH 80
 - LIGHTING IS DESIGNED AND INSTALLED BY SHELTER MANUFACTURER.

verizon
2770 SHADELANDS DRIVE
BUILDING 11
WALNUT CREEK, CA 94598

SEQUOIA
DEPLOYMENT SERVICES, INC.
1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2263

ALLSTATES
ENGINEERING & SURVEYING
23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT
DRAWN BY: LS
CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
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0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
MUSAW ZAITANI
71655
CIVIL
STATE OF CALIFORNIA

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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
SINGLE LINE, PANEL
SCHEDULE, NOTES &
CONDUIT ROUTE

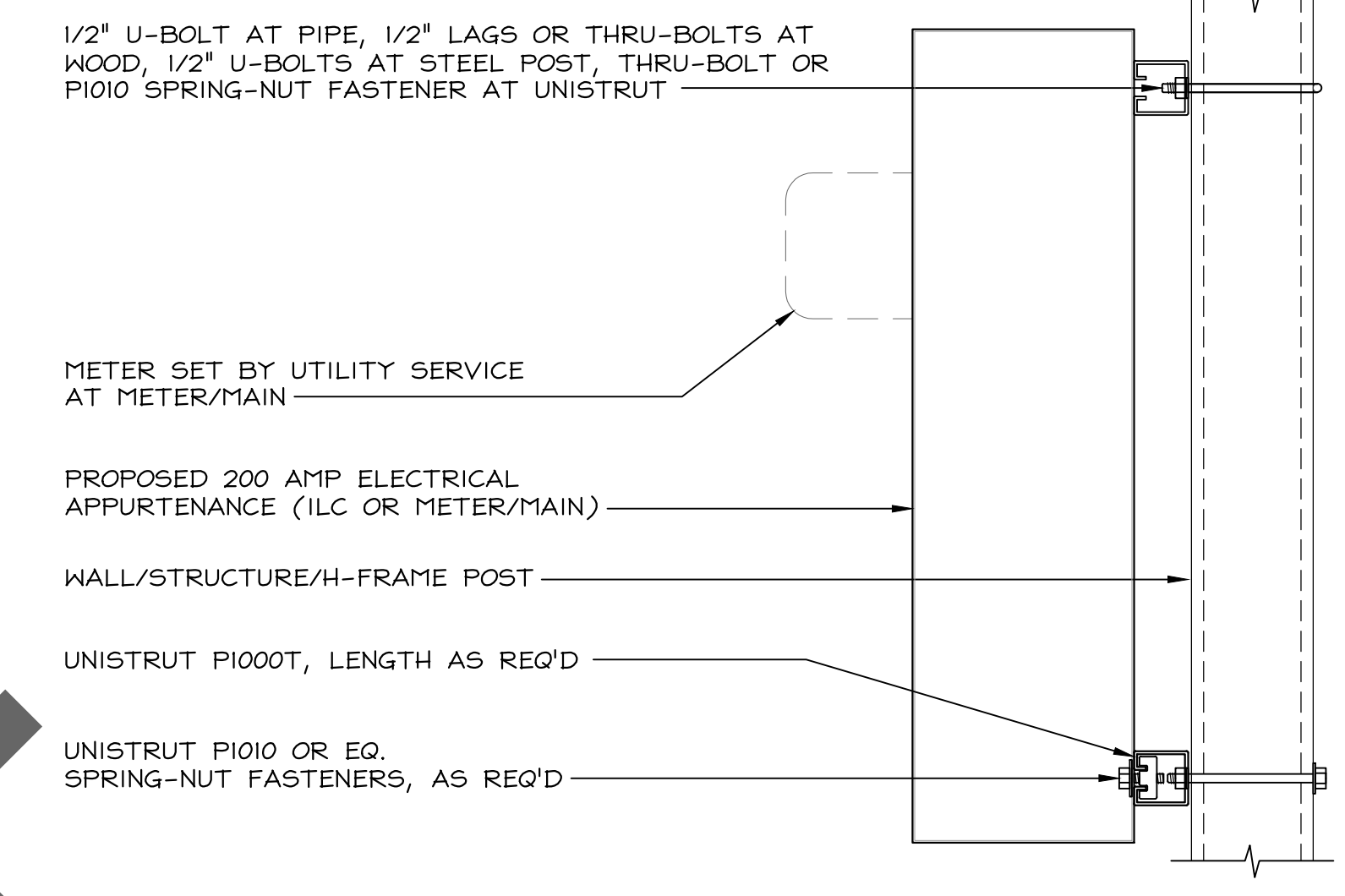
SHEET NUMBER
E-2

verizon

2770 SHADELANDS DRIVE
BUILDING 11
WALNUT CREEK, CA 94598

SEQUOIA
DEPLOYMENT SERVICES, INC.
1 SPECTRUM POINTE DRIVE, SUITE 130
LAKE FOREST, CA 92630-2283

ALLSTATES
ENGINEERING & SURVEYING
23675 BIRTCHE DRIVE
LAKE FOREST, CA 92630



NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 9

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 6

NEW CABINET MOUNTING 24"x36" SCALE: NTS 11"x17" SCALE: NTS 3

PROJECT ID: PASO ROBLES AIRPORT

DRAWN BY: LS
CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
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0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
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Oldcastle Precast
Enclosure Solutions
Phone: (800) 486-7070 Fax: (800) 486-6804
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TRAFFIC BOX CALTRANS NO. 3-1/2 STATE SPECS
OR APPROVED EQUAL

TRAFFIC BOX NO. B1017 BOX 130 LBS.

STEEL CHECKER COVER NO. B1017-51JH 44 LBS.

TRAFFIC BOX NO. B1017-51GH

A HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTLING SHOULDERS GRADE AND FACILITATE BACK FILLING. HEX-HEAD BOLTS ARE INCLUDED WITH BOX. APPROXIMATE DIMENSIONS AND WEIGHT SHOWN.

OLDCASTLE ORDERING CODE	ITEM	APPROX. SHIPPING WEIGHT	DESCRIPTION
B1017BOX	BOX	130 LBS.	B1017 UTILITY BOX (10 5/8" X 17 1/4") H/20 LOADING W/ BOLTS - 20 PER PALLET
B1017-51JH	COVER	44 LBS.	STEEL CHECKER PLATE, H/20, BOLT DOWN
B1017-51GH	COVER	46 LBS.	STEEL CHECKER PLATE, H/20 WITH 5" X 8" READING LID
B1017X12	EXTENSION	123 LBS.	12" REINFORCED CONCRETE H/20 LOADING - 20 PER PALLET
B95L	SLAB	32 LBS.	REINFORCED CONCRETE (13 1/4" X 19 3/4") GALVANIZED AVAILABLE ON ALL STEEL COVERS

NEW CABINET MOUNTING

GEN. FEED OPTION: FOR FEEDER ENTRY VIA ANY APP'VD. KNOCKOUT

NTI/EMERSON P/N# 1001067 THE 100A, 2-POLE BRANCH CIRCUIT BREAKER (FOR BTS) T-MOBILE SAP# NOT ISSUED

UTILITY BREAKER
GENERATOR BREAKER
AUTOMATIC POWER TRANSFER MODULAR
LOAD CENTER SQUARE D GO TYPE 30 POSITION
NEUTRAL-GROUND (N-G) BONDING JUMPER (CUSTOMER INSTALLED IF REQUIRED)
GROUND ROD TO BE INSTALLED BY LOCAL CONTRACTOR WHEN REQUIRED

USE CU-AL WIRE 60-75 C.
200 AMP SERIES EQUIPPED WITH SQUARE D BREAKERS
BONDED NEUTRAL WHEN INSTALLED AS SHOWN ON WIRING DIAGRAM
WHEN RESETTING BREAKERS TURN TO OFF POSITION, THEN TO ON POSITION.
200 OR 100 AMP 240 VOLTS, AC, SINGLE PHASE ALTERNATING CURRENT CIRCUIT ONLY.
SUITABLE FOR USE IN ACCORDANCE WITH ARTICLE 702 OF THE NATIONAL ELECTRIC CODE.
REPLACE LOAD CENTER BREAKERS USE ONLY SQUARE D (GO TYPE) OF THE SAME RATING.
WARNING: MAKE CONTINUITY CHECK WITH OHM METER TO VERIFY CORRECT PHASING AND GROUNDING CONNECTIONS.

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 8

11"X17" TRAFFIC CONCRETE BOX 24"x36" SCALE: NTS 11"x17" SCALE: NTS 5

ILC PANEL 'A' LAYOUT/WIRING 24"x36" SCALE: NTS 11"x17" SCALE: NTS 2

REGISTERED PROFESSIONAL ENGINEER
MUSAW ZAITANI
71655
CIVIL
STATE OF CALIFORNIA

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TRAFFIC RATED
PG#E CODE:
01-9598
01-9599
OR APPROVED EQUAL

NAMEPLATE
PENTA-HEAD COIL BOLTS 4 TOTAL
DISK LOCK WASHERS 2 EACH BOLT
SLIP RESISTANT SURFACE

6" FOR 01-9598
0" FOR 01-9599

4" DUCT TERMINATORS 12 TOTAL

PG#E CODE	DESCRIPTION	WEIGHT (LBS)
043518	ENCLOSURE, 2'x3'x2'-0" PG#E	1060
043519	RISER 2'x3'x6" PG#E	480
043524	RISER 2'x3'x12" PG#E	770

KOHLER RDT-CFNC-0200B ILC (INTEGRATED LOAD CENTER) (OR APPROVED EQUAL)

KOHLER GENERATORS

COMBINATION AUTOMATIC TRANSFER SWITCH
200-AMP, 120/240-VOLT AC DIST. PANEL

UNIT DIMENSIONS (HxWxD):
36.1" H x 16.4" W x 7" D

UNIT WEIGHT (LBS.):
18 lbs.

AUTOMATIC TRANSFER SWITCH:
AUTOMATIC CONTROLLER SELECTS/STARTS THE GENERATOR IN AC FAIL MODE

RDT SERIES ILC SPECIFICATIONS:
VOLTAGE: 120/240 VOLTS
MAX. CURRENT: 200 AMPS UTIL / 200 AMPS GEN.
SYSTEM: 2-POLE, 1-PHASE, 3-WIRE
MAX. WATTAGE: 48,000 WATTS
FREQUENCY: 60 HERTZ
ENCLOSURE: NEMA 3R
ILC PANEL: 24-CIRCUIT, 1-PHASE

UL LISTED

PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
ELECTRICAL DETAILS

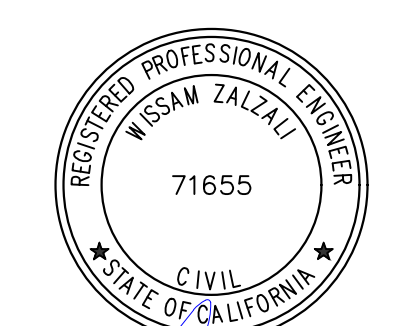
SHEET NUMBER
E-3

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 7

2'-0"x3'-0" TRAFFIC CONCRETE BOX 24"x36" SCALE: NTS 11"x17" SCALE: NTS 4

KOHLER ILC (INTEGRATED LOAD CENTER) 24"x36" SCALE: NTS 11"x17" SCALE: NTS 1

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
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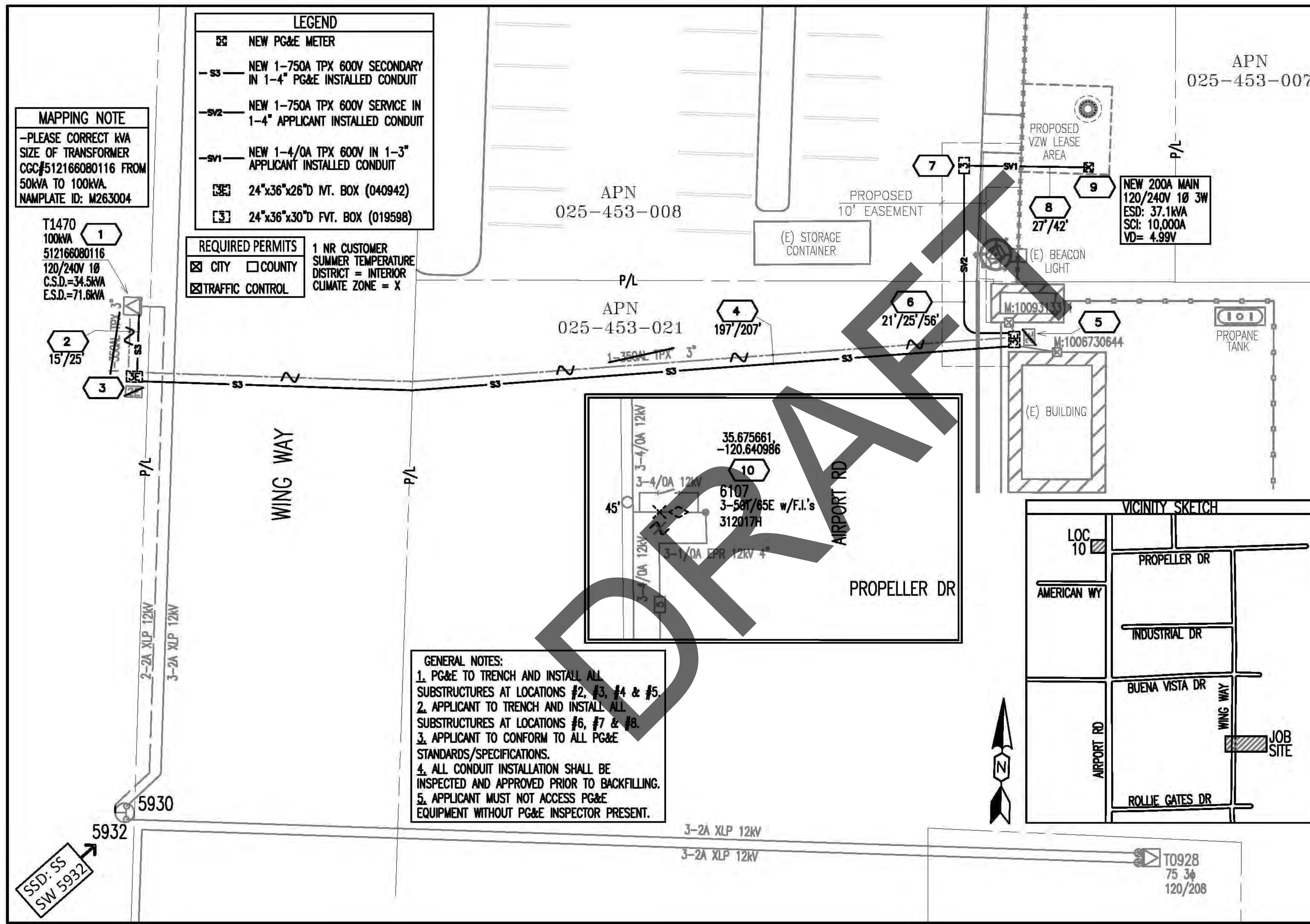


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PASO ROBLES AIRPORT
BEACON LIGHT TOWER:
4960 WING WAY
PASO ROBLES, CA 93446

SHEET TITLE
PG&E CONSTRUCTION
SKETCH
(FOR REFERENCE)

SHEET NUMBER
E-4



CONSTRUCTION DRAWING
NEW VERIZON MACRO SITE
4960 WING WAY, PASO ROBLES

EST: ANTHONY MARTINEZ 559-545-1001
ADE: MANNY LARANJO 559-530-9459
SUPV: JOAQUIN FLOREZ 559-347-5129
REP: ESTHER HILTON OCHOA 209-259-9019
PLNR: ANDREW KARGOL 805-263-3438

NOTIF: 129580401 JPA#:
SCALE: 1"=20' DATE: 11/5/24 SHEET: 1 OF 1 REV.

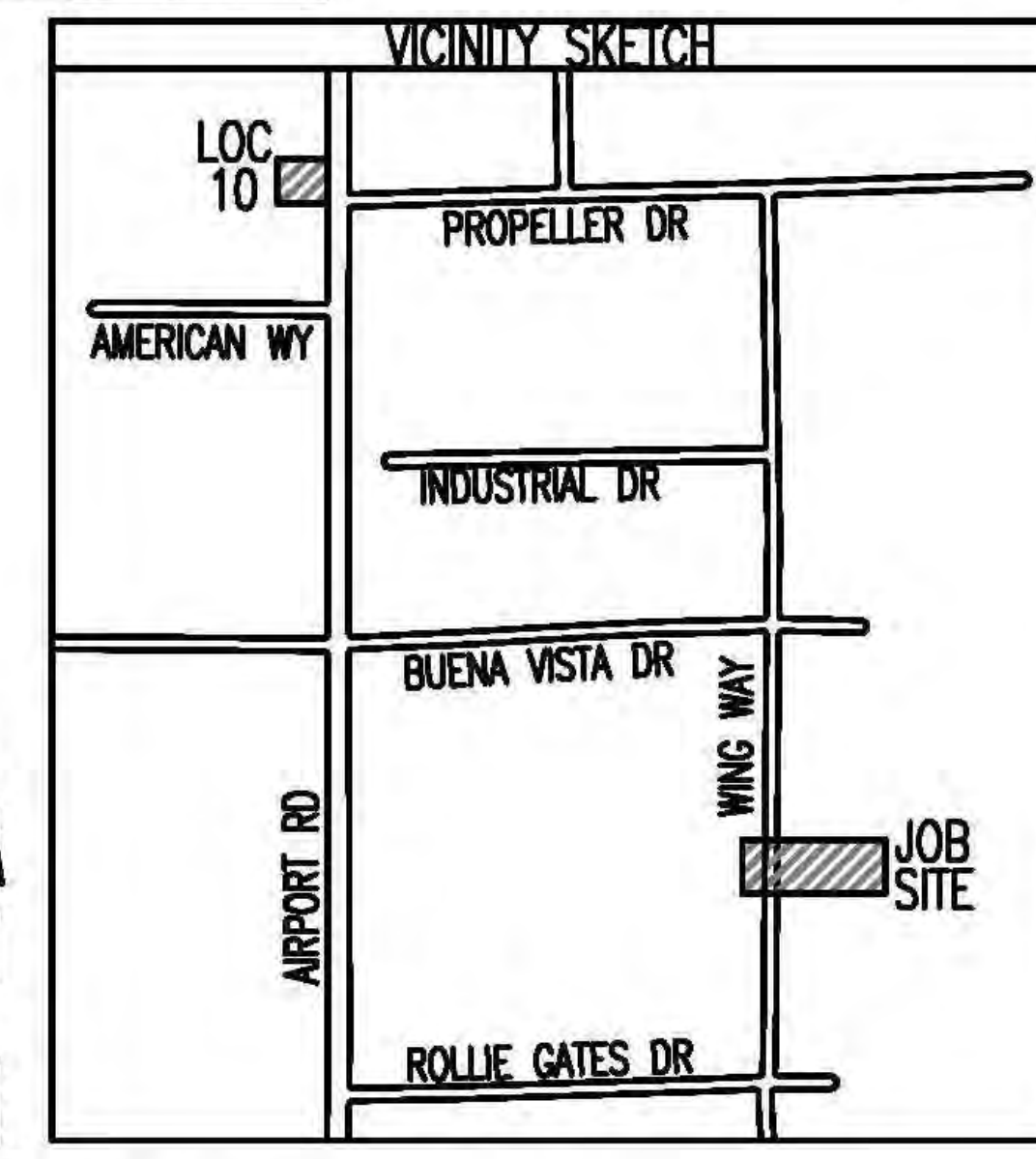
NO ENVIRONMENTAL ISSUES

Know what's below. Call before you dig. 811

GAS CONFLICT: NO

NEAR LOC: -

PRIMARY VOLTAGE: 12 KV VOLTAGE AREA: 1
LATITUDE: 35.672729 LONGITUDE: -120.63807
SOURCE SIDE DEVICE: SS SW-5932
SUB & CIRCUIT: PASO ROBLES 1108
DSGN SAG: LRural RAPTOR ZONE: YES
LOADING AREA: LT ARRESTER DIST: 2
CORROSION AREA: NON INSULATION DIST: C
EXEMPT EQUIP. INST.: N/A FIRE AREA: LRA-TIER 1



GENERAL NOTES:
1. PG&E TO TRENCH AND INSTALL ALL SUBSTRUCTURES AT LOCATIONS #2, #3, #4 & #5.
2. APPLICANT TO TRENCH AND INSTALL ALL SUBSTRUCTURES AT LOCATIONS #6, #7 & #8.
3. APPLICANT TO CONFORM TO ALL PG&E STANDARDS/SPECIFICATIONS.
4. ALL CONDUIT INSTALLATION SHALL BE INSPECTED AND APPROVED PRIOR TO BACKFILLING.
5. APPLICANT MUST NOT ACCESS PG&E EQUIPMENT WITHOUT PG&E INSPECTOR PRESENT.

LEGEND

- NEW PG&E METER
- NEW 1-750A TPX 600V SECONDARY IN 1-4" PG&E INSTALLED CONDUIT
- NEW 1-750A TPX 600V SERVICE IN 1-4" APPLICANT INSTALLED CONDUIT
- NEW 1-4/OA TPX 600V IN 1-3" APPLICANT INSTALLED CONDUIT
- 24"x36"x26"D INT. BOX (040942)
- 24"x36"x30"D FVT. BOX (019598)

REQUIRED PERMITS

- CITY COUNTY
- TRAFFIC CONTROL

1 NR CUSTOMER SUMMER TEMPERATURE DISTRICT = INTERIOR CLIMATE ZONE = X

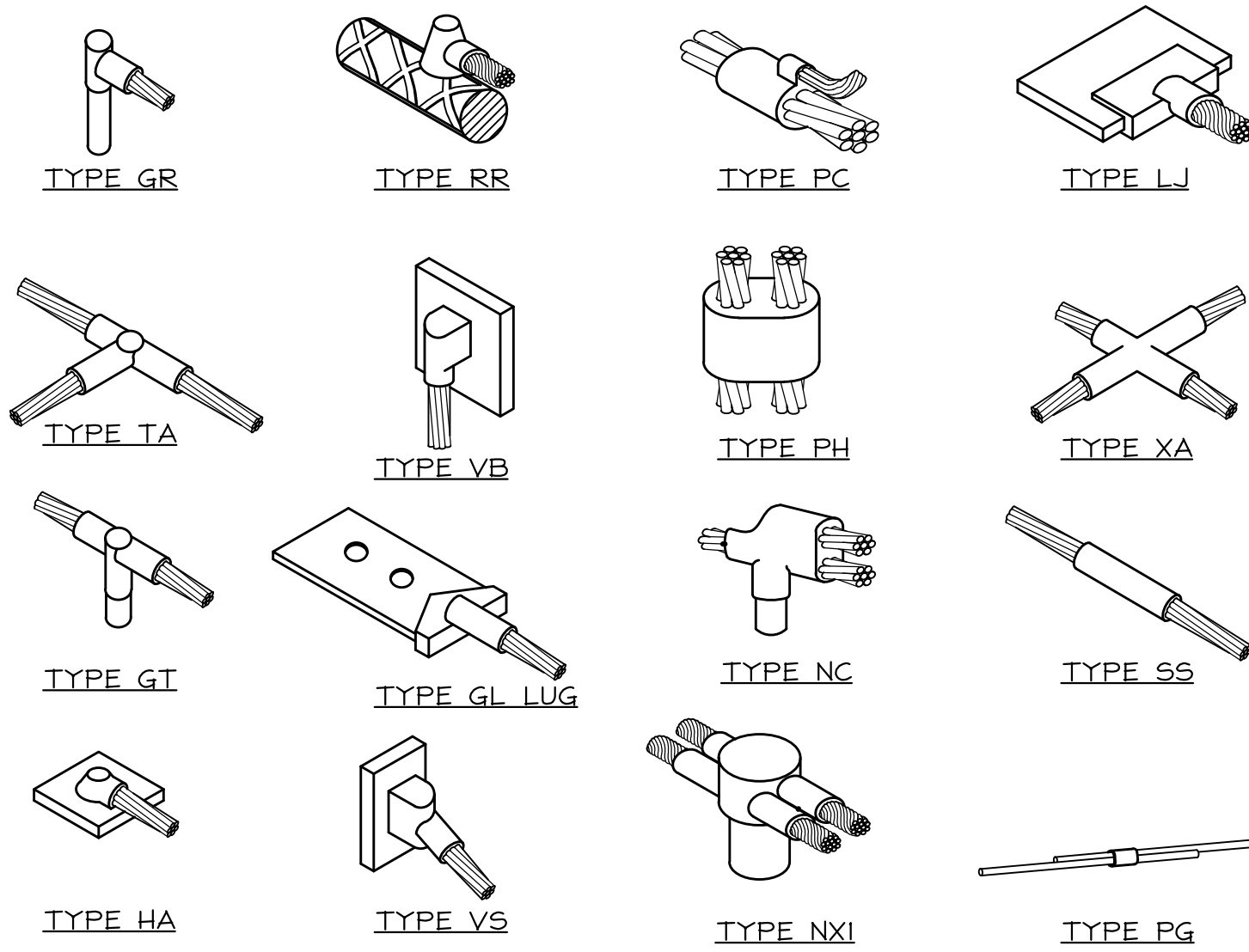
MAPPING NOTE
-PLEASE CORRECT KVA SIZE OF TRANSFORMER CGC#512166080116 FROM 50KVA TO 100KVA. NAMPLATE ID: M263004

T1470
100kVA
512166080116
120/240V 1Ø
C.S.D.=34.5kVA
E.S.D.=71.6kVA

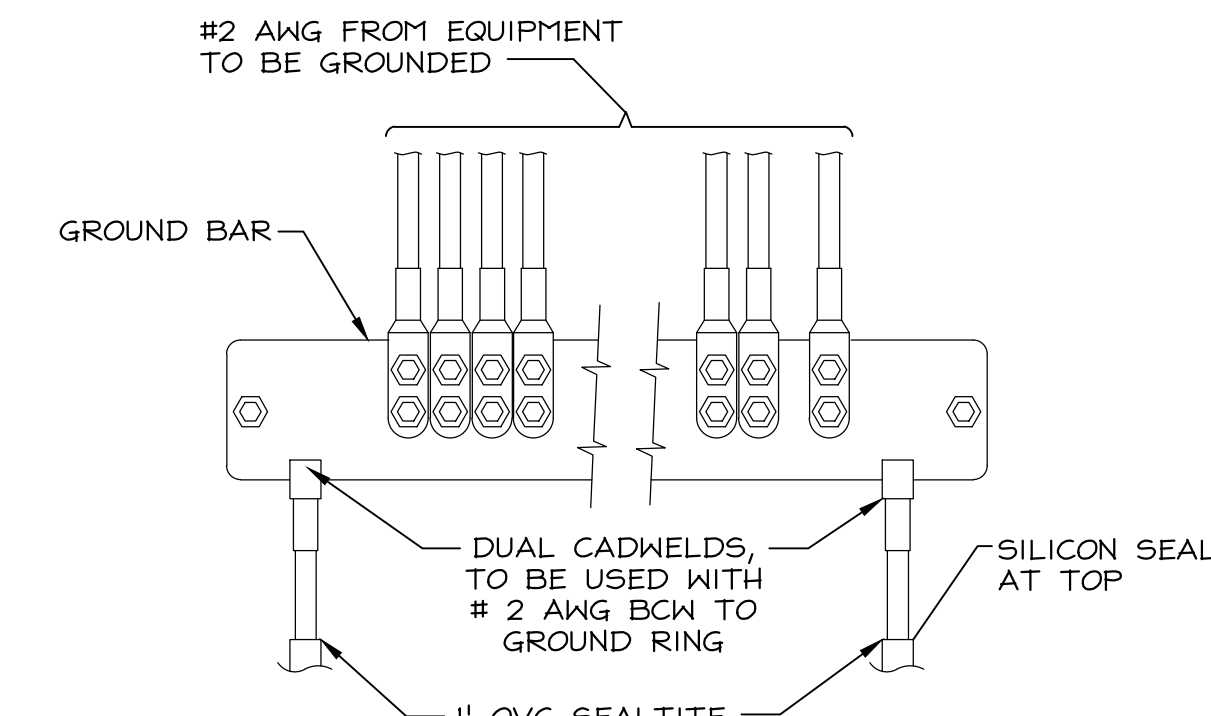
SSD: SS
SW 5932

GROUNDING NOTES:

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
- ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
- GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
- ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
- GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
- INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
- EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
- GROUND BARS:
 - EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
- ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
- OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
- GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
- IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
- GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.
- ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
- ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
- USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.
- POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
- NO LB'S ALLOWED ON GROUNDING.
- PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.
- IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
- EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE-2 HOLES. LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE COATED WITH ANTI-OXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
- THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTNING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
- ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.
- PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.
- INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
- GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
- ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

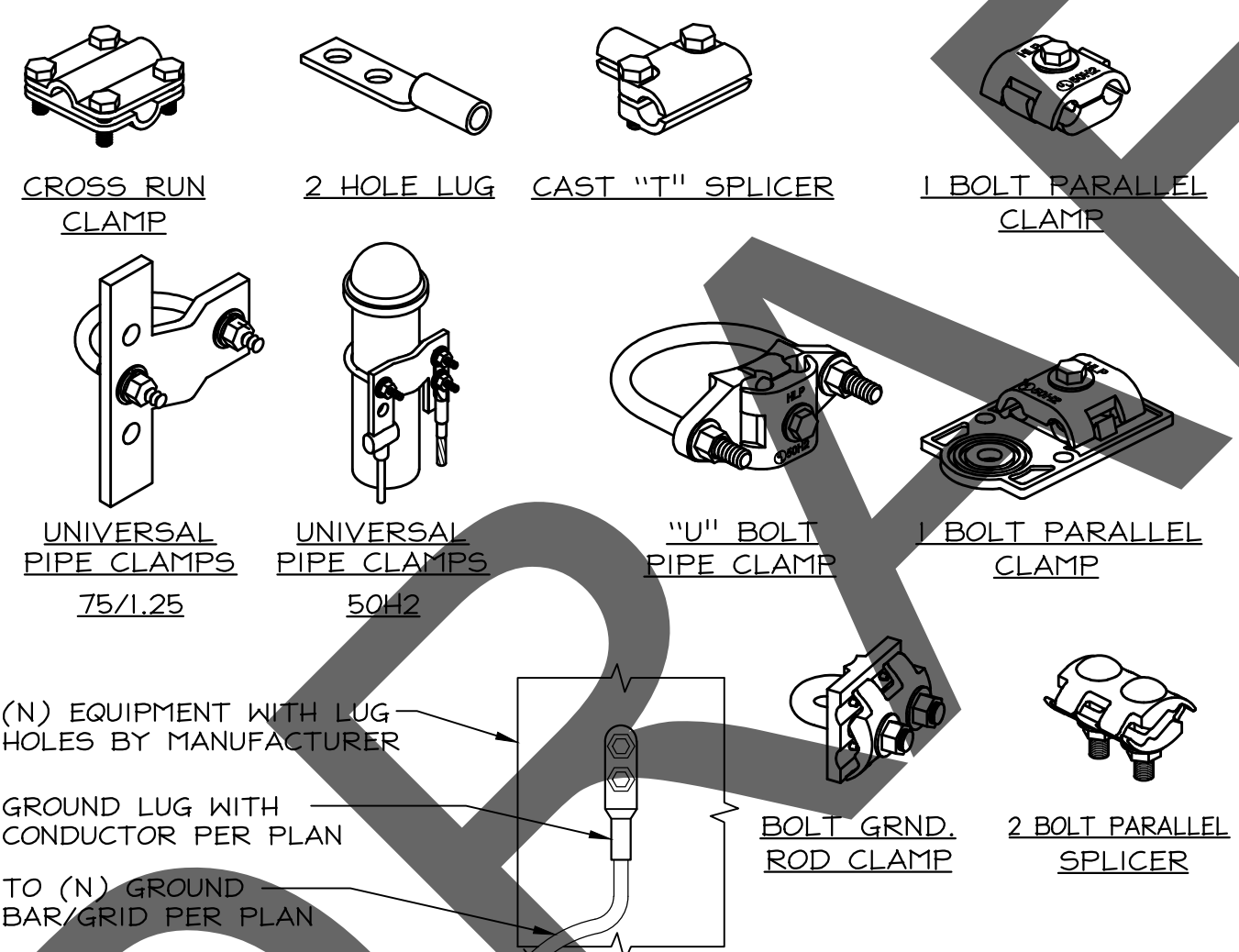


TYPICAL CADWELD TYPES 24"x36" SCALE: NTS 11"x17" SCALE: NTS

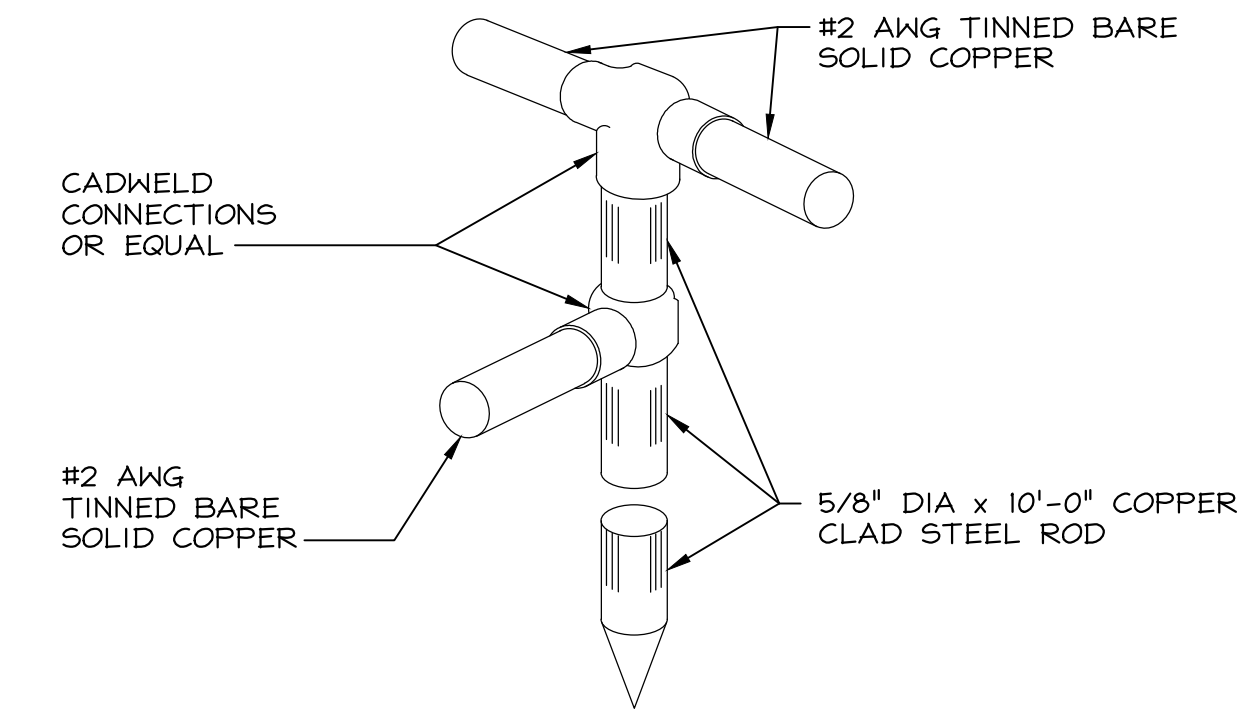


NOTE:
 1. CONTRACTOR TO UTILIZE KOPR-SHIELD (THANS & BETTS) ON ALL LUG CONNECTIONS OR APPROVED EQUAL
 2. ALL LUGS TO BE DUAL HOLE LONG BARREL AND CRIMPED TWICE WITH MFR'S RECOMMENDED TOOL

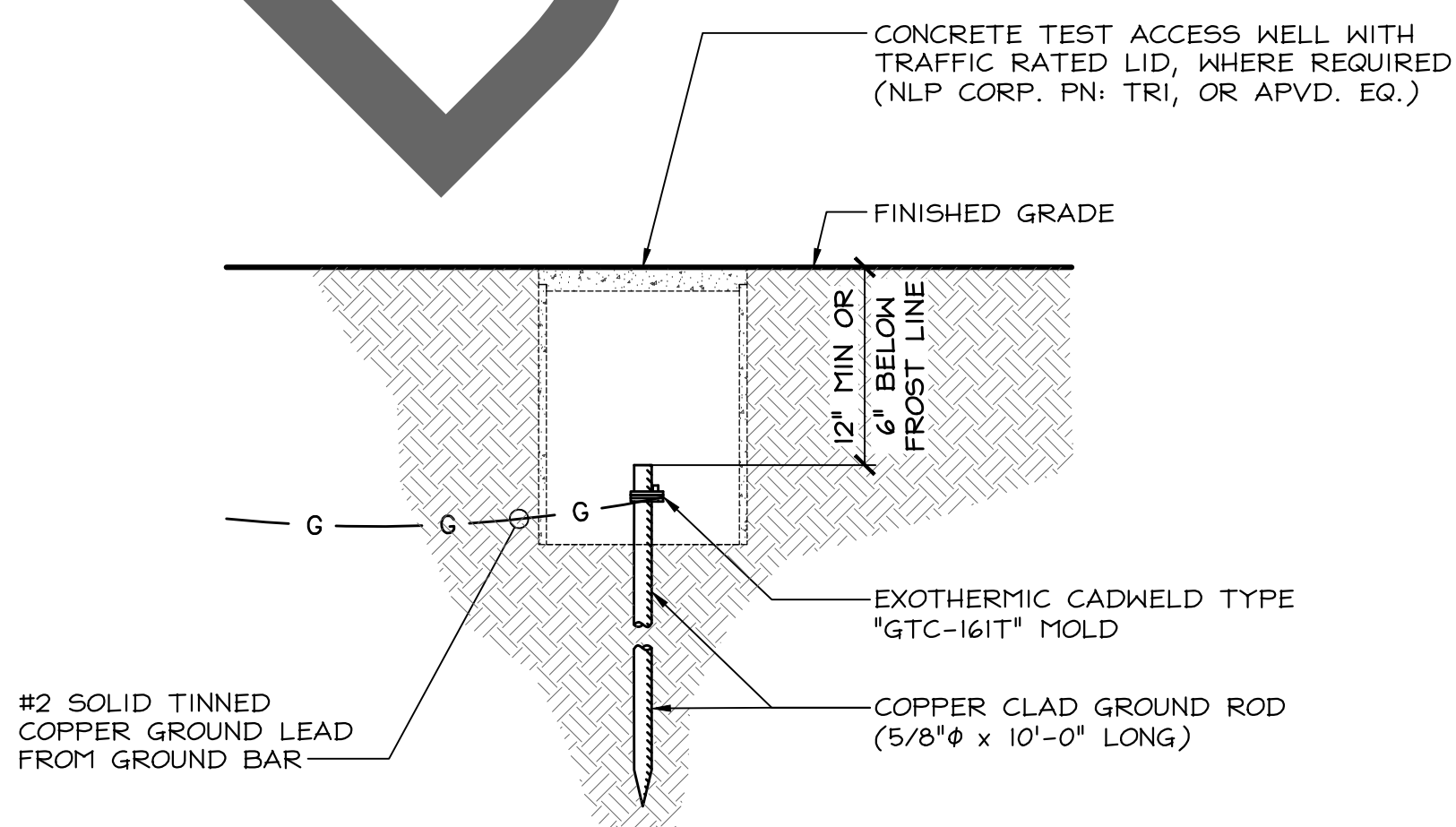
GROUND BAR CONNECTION 24"x36" SCALE: NTS 11"x17" SCALE: NTS



MECHANICAL CONNECTIONS 24"x36" SCALE: NTS 11"x17" SCALE: NTS

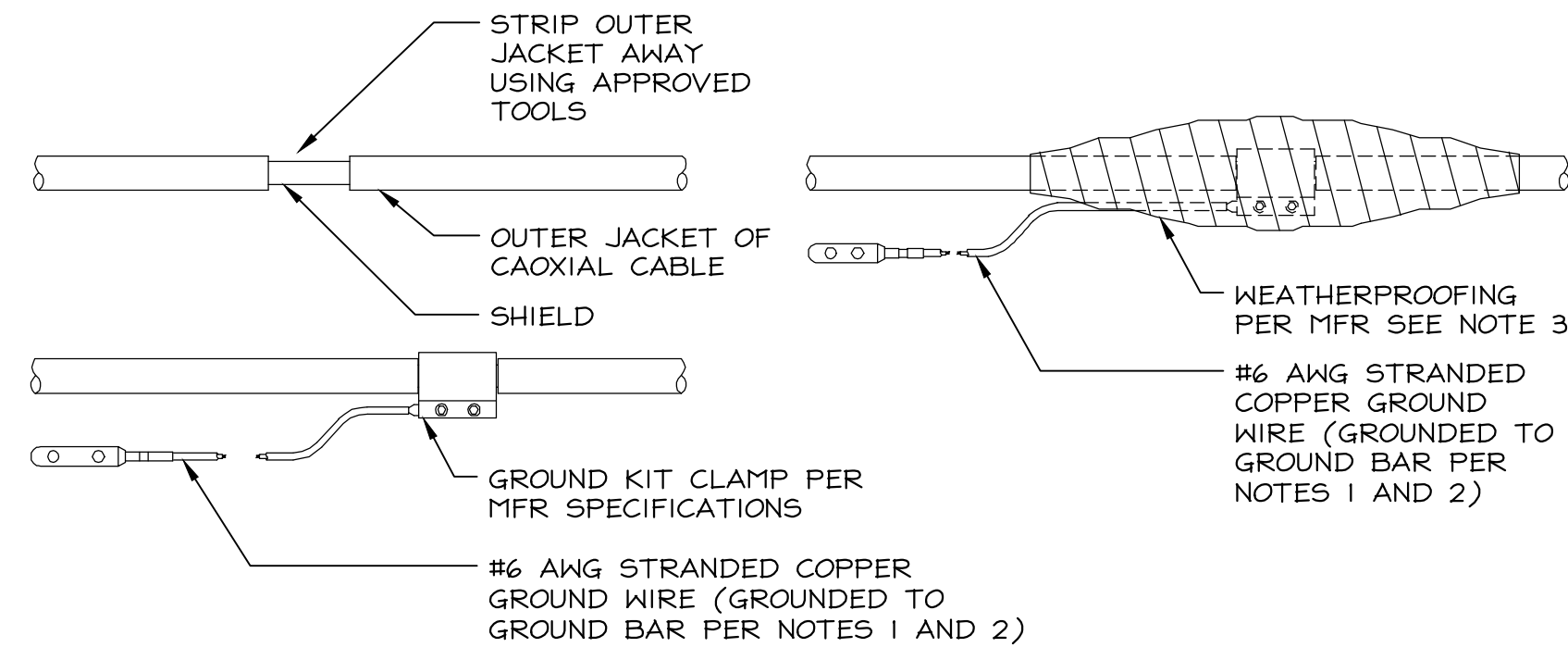


GROUND ROD DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS



GROUND TEST ACCESS WELL 24"x36" SCALE: NTS 11"x17" SCALE: NTS

- NOTES:**
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
 - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MFR
 - WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY THE CABLE MFR



GROUNDING KIT 24"x36" SCALE: NTS 11"x17" SCALE: NTS

verizon
 2770 SHADELANDS DRIVE
 BUILDING 11
 WALNUT CREEK, CA 94598

SEQUOIA
 DEPLOYMENT SERVICES, INC.
 1 SPECTRUM POINTE DRIVE, SUITE 130
 LAKE FOREST, CA 92630-2283

ALLSTATES
 ENGINEERING & SURVEYING
 23675 BIRTCHE DRIVE
 LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT

DRAWN BY: LS
 CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THW. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
 MUSAW ZALZAL
 71655
 CIVIL
 STATE OF CALIFORNIA

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PASO ROBLES AIRPORT
 BEACON LIGHT TOWER:
 4960 WING WAY
 PASO ROBLES, CA 93446

SHEET TITLE
**GROUNDING
 DETAILS & NOTES**

SHEET NUMBER
G-1

GROUNDING NOTES 24"x36" SCALE: NTS 11"x17" SCALE: NTS

GROUND TEST ACCESS WELL 24"x36" SCALE: NTS 11"x17" SCALE: NTS

GROUNDING KIT 24"x36" SCALE: NTS 11"x17" SCALE: NTS

GROUNDING GENERAL NOTES

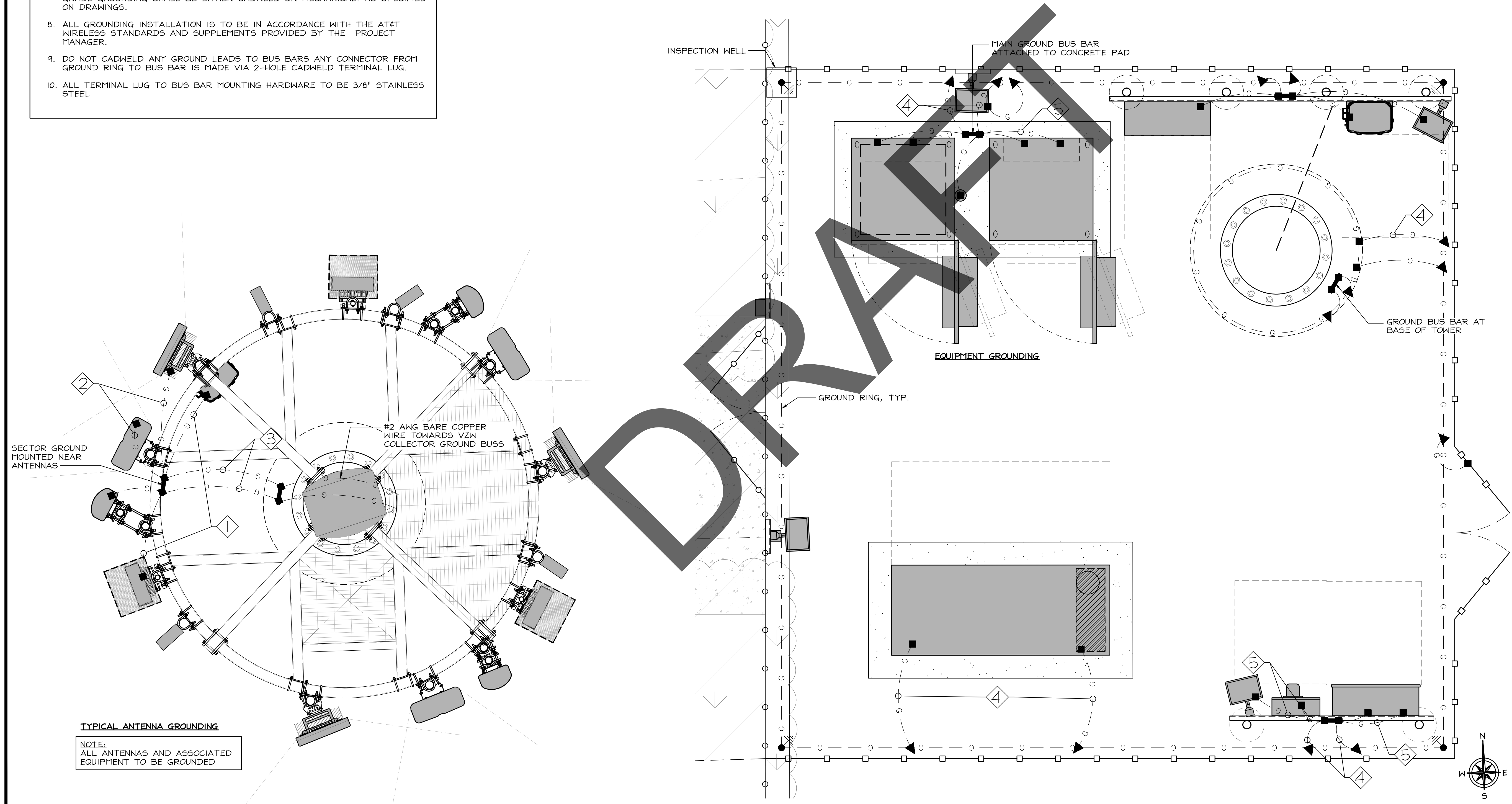
1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. ALL EXTERIOR GROUNDING AND TOP OF GROUNDING RODS SHALL BE BURIED TO A MINIMUM DEPTH OF 2'-6" BELOW FINISH GRADE, ELECTRIC METER GROUND EXCEPTED.
3. ALL GROUNDING LEAD CONDUCTORS SHALL BE #2 SOLID TINNED BARE COPPER.
4. GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS, SUBMIT AN INDEPENDENT FALL OF POTENTIAL TESTING REPORT.
5. NOTIFY PROJECT MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
6. CHEMICAL GROUNDS SHALL BE XIT, CHEM-ROD OR APPROVED EQUAL, WHEN REQUIRED.
7. ALL UNDERGROUND GROUNDING CONNECTORS ARE TO BE CADWELDED ABOVE GRADE GROUNDING SHALL BE EITHER CADWELDED OR MECHANICAL, AS SPECIFIED ON DRAWINGS.
8. ALL GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH THE AT&T WIRELESS STANDARDS AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.
9. DO NOT CADWELD ANY GROUND LEADS TO BUS BARS ANY CONNECTOR FROM GROUND RING TO BUS BAR IS MADE VIA 2-HOLE CADWELD TERMINAL LUG.
10. ALL TERMINAL LUG TO BUS BAR MOUNTING HARDWARE TO BE 3/8" STAINLESS STEEL

GROUNDING LEGEND

SYMBOL	DESCRIPTION
	5/8" x 10'-0" COPPER CLAD GROUND ROD
	EXOTHERMIC WELD (CADWELD)
	#2 SOLID TINNED COPPER WIRE UNLESS OTHERWISE NOTED. ROUTE ABOVE GRADE COVER WITH ROCK BASE.
	GROUND WIRE #2 STRANDED GREEN INSULATED WIRE.
	MECHANICAL CONNECTION 2 HOLE LUG.
	5/8" x 10'-0" COPPER OR COPPERCLAD GROUND ROD IN INSPECTION WELL BOX. LABEL COVER AS "GND"

KEY NOTES

- 1 NEW AWG 2 INSULATED COPPER GROUND FROM MICROWAVE, RRU AND SURGE ARRESTOR (TYP.)
- 2 NEW AWG 6 INSULATED COPPER GROUND FROM ANTENNA GROUND KIT (TYP.)
- 3 NEW AWG 2 BCW
- 4 NEW AWG 2 INSULATED COPPER GROUND
- 5 NEW AWG 2 BCW



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 2770 SHADELANDS DRIVE
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 DEPLOYMENT SERVICES, INC.
 1 SPECTRUM POINTE DRIVE, SUITE 130
 LAKE FOREST, CA 92630-2283

ALLSTATES
 ENGINEERING & SURVEYING
 23675 BIRTCHE DRIVE
 LAKE FOREST, CA 92630

PROJECT ID: PASO ROBLES AIRPORT
 DRAWN BY: LS
 CHECKED BY: SS

REV	DATE	DESCRIPTION	SS
2	03/28/2025	PER NEW RFDS	SS
1	03/13/2025	PER UPDATED THR. DWGS.	SS
0	12/05/2024	100% CD'S FOR SUBMITTAL	SS
A	11/01/2024	80% CD'S FOR REVIEW	SS

REGISTERED PROFESSIONAL ENGINEER
 MUSAAM ZALZAL
 71655
 CIVIL
 STATE OF CALIFORNIA

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PASO ROBLES AIRPORT
 BEACON LIGHT TOWER:
 4960 WING WAY
 PASO ROBLES, CA 93446

SHEET TITLE
GROUNDING DIAGRAMS

SHEET NUMBER
G-2



5401 S. CANADA PLACE
 TUCSON, AZ 85706
 PH: (520) 663-1330

VERIZON



JOB #: 25-006



1635 N. Greenfield Rd., Suite 112 (480) 648-3514
 Mesa, AZ 85205 www.vectorse.com

DATE: 3/4/25 DESIGNED: ALL DRAFTER: ALL

REVISIONS		
REV	DATE	DESCRIPTION

PASO ROBLES AIRPORT

80'-0" MONOPOLE

CELL TREES, INC. Job:
 25-006

LOCATION:

4960 WING WAY
 PASO ROBLES, CA 93446
 SAN LUIS OBISPO COUNTY

DRAWING INDEX

- MP-1 TITLE SHEET
- MP-2 NOTES & SPECIFICATIONS
- MP-3 ELEVATION VIEWS
- MP-4 DETAILS
- MP-5 ANTENNA MOUNT DETAILS
- MP-6 FOUNDATION

TITLE SHEET

PASO ROBLES AIRPORT

80'-0" MONOPOLE

4960 WING WAY

PASO ROBLES, CA 93446

SAN LUIS OBISPO COUNTY

**PRELIMINARY
 NOT FOR
 CONSTRUCTION
 3/7/2025**

A1212-1085-251

MP-1	REV
	0

SUMMARY OF SPECIAL INSPECTION		
NO.	DESCRIPTION OF TYPE OF INSPECTION REQ'D, LOCATION, REMARKS, ETC.	INSPECTION TYPE
1.	REQUIRED INSPECTIONS FOR SOIL/FOUNDATION:	
A.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND THAT THE MATERIALS BELOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	PERIODIC
B.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	PERIODIC
C.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS
D.	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT IT HAS BEEN PREPARED PROPERLY	PERIODIC
2.	REQUIRED INSPECTIONS FOR CAST-IN-PLACE DEEP FOUNDATION ELEMENTS	
A.	INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	CONTINUOUS
B.	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	CONTINUOUS
3.	REQUIRED INSPECTIONS FOR CONCRETE CONSTRUCTION	
A.	INSPECT REINFORCEMENT AND VERIFY PLACEMENT	PERIODIC
B.	INSPECT ANCHORS CAST IN CONCRETE - PLUMBNESS, ORIENTATION, TOP AND BOTTOM TEMPLATES ARE INSTALLED, AND THAT THE MINIMUM EMBEDMENT SPECIFIED BY THE FOUNDATION DESIGNER IS MET.	PERIODIC
C.	VERIFY USE OF REQUIRED DESIGN MIX AND COMPLIANCE WITH ACI 318-19	PERIODIC
D.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS
E.	INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS
F.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	PERIODIC
G.	INSPECT FORMWORK FOR PROPER SHAPE, LOCATION AND DIMENSIONS.	PERIODIC
4.	BOLTING:	
A.	ALL ANCHOR ROD NUTS (TOP AND LEVELING NUTS) SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION. TOP NUTS SHALL BE ROTATED, WITH THE LEVELING NUT SECURED, AN ADDITIONAL 1/3 TURN FOR ANCHOR RODS 1.5 IN. OR LESS IN DIAMETER AND AN ADDITIONAL 1/6 TURN FOR ANCHOR ROD DIAMETERS GREATER THAN 1.5 IN. PER SECTION 4.9.9 OF THE TIA-222-H STANDARD.	PERIODIC
B.	ALL HIGH STRENGTH BOLTS, A325, SHALL BE TIGHTENED TO THE TURN OF NUT METHOD AS DEFINED BY AISC	PERIODIC
5.	FIELD WELDING:	
A.	NO FIELD WELDING SHALL BE PERMITTED EXCEPT WHERE SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS	</= 5/16, PERIODIC > 5/16, CONTINUOUS
6.	SHOP WELDING:	
A.	ALL SHOP WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY AN APPROVED FABRICATOR'S SHOP PER 2022 CBC SECTION 1704.2.5	PROVIDE CERTS.
B.	ALL WELDED CONNECTIONS SHALL CONFORM WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1	N/A
C.	WELD ELECTRODES SHALL BE LOW HYDROGEN E70XX U.N.O.	N/A
D.	VISUAL INSPECTION OF ALL WELDS SHALL BE PERFORMED BEFORE GALVANIZING.	INSPECT AND REPORT
E.	IF A WELD IS IN QUESTION PER THE VISUAL INSPECTION THEN IT SHALL BE TESTED USING AN APPROPRIATE TEST, I.E. DIE PENETRATION, MAGNETIC PARTICLE, U.T., ETC.	INSPECT AND REPORT

SPECIAL INSPECTION:

- SPECIAL INSPECTION SHALL BE PERFORMED ACCORDING TO 2022 CBC.
- THE SPECIAL INSPECTOR SHALL BE APPROVED BY THE LOCAL JURISDICTION TO PERFORM THE TYPES OF INSPECTION REQUIRED.
- ANY SUPPORT SERVICE PERFORMED BY THE ENGINEER OF RECORD DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER OF RECORD ARE ONLY FOR THE PURPOSE OF ASSISTING IN THE QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH THE CONTRACT DOCUMENTS. THIS SUPPORT DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

GENERAL DESIGN NOTES:

STRUCTURAL DESIGN IS BASED ON THE CALIFORNIA BUILDING CODE, 2022 EDITION (2021 IBC) AND THE TIA-222-H STANDARD

DESIGN LOADS:

WIND: WIND SPEED = 92 MPH (3-SEC GUST) PER THE ASCE 7-16 STANDARD
 RISK CATEGORY: II
 EXPOSURE: C
 TOPOGRAPHIC CATEGORY: 1
 CREST HEIGHT: 0 FT
 ELEVATION: 803 FT ABOVE SEA LEVEL

ICE: NONE PER THE TIA-222-H STANDARD

SEISMIC:

IMPORTANCE FACTOR: 1.00
 RISK CATEGORY: II
 MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 $S_s = 1.233g$, $S_1 = 0.444g$
 SITE CLASS: D
 SPECTRAL RESPONSE COEFFICIENTS:
 $S_{ps} = 0.828g$, $S_{p1} = 0.824g$
 SEISMIC DESIGN CATEGORY: D
 BASIC SEISMIC-FORCE-RESISTING-SYSTEM:
 TELECOMMUNICATION TOWER: STEEL POLE
 SEISMIC BASE SHEAR, $V = 3.8 K$
 SEISMIC RESPONSE COEFFICIENT, $C_s = 0.344$
 RESPONSE MODIFICATION FACTOR, $R = 1.5$
 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

BASE DESIGN REACTIONS:

MOMENT, $M = 570 K-FT$ (1.0 WIND)
 SHEAR, $V = 8.7 K$ (1.0 WIND)
 AXIAL, $P = 13.1 K$ (1.2 DEAD)

THE MONOPOLE, BASE PLATE, AND FOUNDATION ARE DESIGNED FOR THE DESIGN LOADING. THE ANTENNA MOUNTS ARE ONLY DESIGNED FOR THE INITIAL LOADING. SEE DTL 2/MP-3.

STRUCTURAL STEEL:



- POLYGONAL MONOPOLE SHAFT STEEL SHALL CONFORM w/ ASTM A572 GR. 65, U.N.O.
- BASEPLATE STEEL SHALL CONFORM w/ ASTM A572 GR. 50, U.N.O.
- ALL STEEL PIPE SHALL CONFORM w/ ASTM A53 GR. B (35 KSI), U.N.O.
- ALL STEEL RECTANGULAR TUBES (HSS) SHALL CONFORM w/ ASTM A500 GR. B (46 KSI), U.N.O.
- REINFORCED PORT STEEL SHALL CONFORM w/ ASTM A572 GR. 65, U.N.O.
- ALL OTHER STEEL SHAPES & PLATES SHALL CONFORM w/ ASTM A36, U.N.O.

STRUCTURAL STEEL (CONT.):

- ALL BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL CONFORM w/ ASTM F3125 GR. A325, U.N.O. AND SHALL BE TIGHTENED PER THE "TURN-OF-NUT" METHOD AS DEFINED BY AISC.
- ALL ANCHOR BOLTS SHALL CONFORM w/ ASTM A615 GR. 75, U.N.O. SEE SUMMARY OF SPECIAL INSPECTION NOTE 4A FOR TIGHTENING REQUIREMENTS.
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS PER AWS D1.1. ALL WELDING SHALL BE PERFORMED IN A SHOP APPROVED BY THE BUILDING OFFICIAL. STEEL WELDS SHALL BE PERFORMED WITH MINIMUM E70XX LOW-HYDROGEN ELECTRODE EXCEPT WHERE HIGHER STRENGTH ELECTRODE IS REQUIRED BY AWS D1.1. VERIFY FILLER MATERIAL IS COMPATIBLE WITH BASE METAL FOR EACH WELDED JOINT.
- ALL STEEL SURFACES SHALL BE GALVANIZED IN ACCORDANCE w/ ASTM A123 AND ASTM F2329 STANDARDS. ANY GALVANIZED SURFACES THAT BECOME DAMAGED DURING SHIPPING, WELDING, OR ERECTION MUST BE COATED WITH A MINIMUM OF TWO COATS OF COLD GALVANIZING COMPOUND THAT COMPLIES WITH THE REQUIREMENTS OF ASTM A780

DISCLAIMERS:

- ALL STRUCTURAL COMPONENTS TO BE CONNECTED TOGETHER SHALL BE COMPLETELY FIT UP ON THE GROUND OR OTHERWISE VERIFIED FOR COMPATIBILITY PRIOR TO LIFTING ANY COMPONENT INTO PLACE. REPAIRS REQUIRED DUE TO FIT-UP OR CONNECTION COMPATIBILITY PROBLEMS AFTER PARTIAL ERECTION ARE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.
- WHERE EFFECTIVE PROJECTED AREAS (EPA) ARE USED, IT IS THE RESPONSIBILITY OF OTHERS TO VERIFY INSTALLED EQUIPMENT DOES NOT EXCEED LISTED EPA.
- SOME TELECOMMUNICATIONS STRUCTURES ARE SUSCEPTIBLE TO WIND-INDUCED OSCILLATIONS. OSCILLATIONS MAY OCCUR AT LOW OR MODERATE WIND SPEEDS. TIA PROVIDES NO PRACTICAL ANALYTICS METHOD TO PREDICT AND PREVENT WIND-INDUCED STRUCTURAL OSCILLATIONS. VECTOR STRUCTURAL ENGINEERING RECOMMENDS FREQUENT MONITORING TO IDENTIFY WIND-INDUCED OSCILLATION AND REGULAR CONDITION ASSESSMENTS TO IDENTIFY FATIGUE CRACKING, LOOSE OR MISSING BOLTS, AND ANY OTHER STRUCTURAL DEFECTS. ANY OSCILLATION OR DEFECTS OBSERVED SHALL BE IMMEDIATELY REPORTED TO VECTOR STRUCTURAL ENGINEERING FOR FURTHER EVALUATION AND POSSIBLE REPAIRS OR MODIFICATIONS WHICH MAY BE REQUIRED AT THE OWNER'S EXPENSE.
- THE CONTRACTOR ASSUMES RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THIS REQUIREMENT APPLIES CONTINUOUSLY, IS NOT LIMITED TO NORMAL WORKING HOURS, AND INCLUDES FIRE PREVENTION AND/OR DAMAGE FROM HEAT DUE TO FIELD WELDING.

VERIZON	
 JOB #: 25-006	
 <small>1635 N. Greenfield Rd., Suite 112 Mesa, AZ 85205 (480) 648-3514 www.vectorse.com</small>	
DATE: 3/4/25	DESIGNED: ALL DRAFTER: ALL
REVISIONS	
REV	DATE DESCRIPTION
NOTES & SPECIFICATIONS PASO ROBLES AIRPORT 80'-0" MONOPOLE <small>4960 WING WAY PASO ROBLES, CA 93446 SAN LUIS OBISPO COUNTY</small>	
PRELIMINARY NOT FOR CONSTRUCTION 3/7/2025	
A1212-1085-251	
MP-2	REV 0

INITIAL LOADING:
 LIGHT C.L. @ 77'-0" A.G.L.:
 (1) 41"x24"x24", 75 lb BEACON LIGHT
 ANTENNA C.L. @ 72'-0" A.G.L.:
 (6) 72"x19.6"x7.8", 82 lb PANEL ANTENNAS
 (3) 31.3"x16.1"x7.8", 71 lb PANEL ANTENNAS @ 73'-10" A.G.L.
 (6) 28"x19"x14", 105 lb RRUs
 (2) 29"x16"x11", 40 lb SURGE/RAYCAP/J-BOX
 T-ARM MOUNTS PER SHEET MP-5

DESIGN LOADING:
 LIGHT C.L. @ 77'-0" A.G.L.:
 (1) 41"x46"x45", 126 lb BEACON LIGHT
 ANTENNA C.L. @ 72'-0" A.G.L.:
 (9) 72"x19.6"x7.8", 118 lb PANEL ANTENNAS
 (9) 28"x19"x14", 105 lb RRUs
 (3) 29"x16"x11", 40 lb SURGE/RAYCAP/J-BOX
 (1) PLATFORM WITH HANDRAILS
 (EPA 117.5 ft²), 2800 LBS

NOTE: ALL FEEDLINES SHALL BE ROUTED INSIDE THE POLE SHAFT

APPURTENANCES

N.T.S.

2

MONOPOLE SECTION CHART ²					
SECTION	LENGTH	ØTOP	ØBOTTOM	THICKNESS	WEIGHT ^{1,3}
1	38'-0"	18.00"	23.32"	3/16"	1.6 K
2	39'-3"	22.49"	27.99"	3/16"	2.0 K

NOTES:

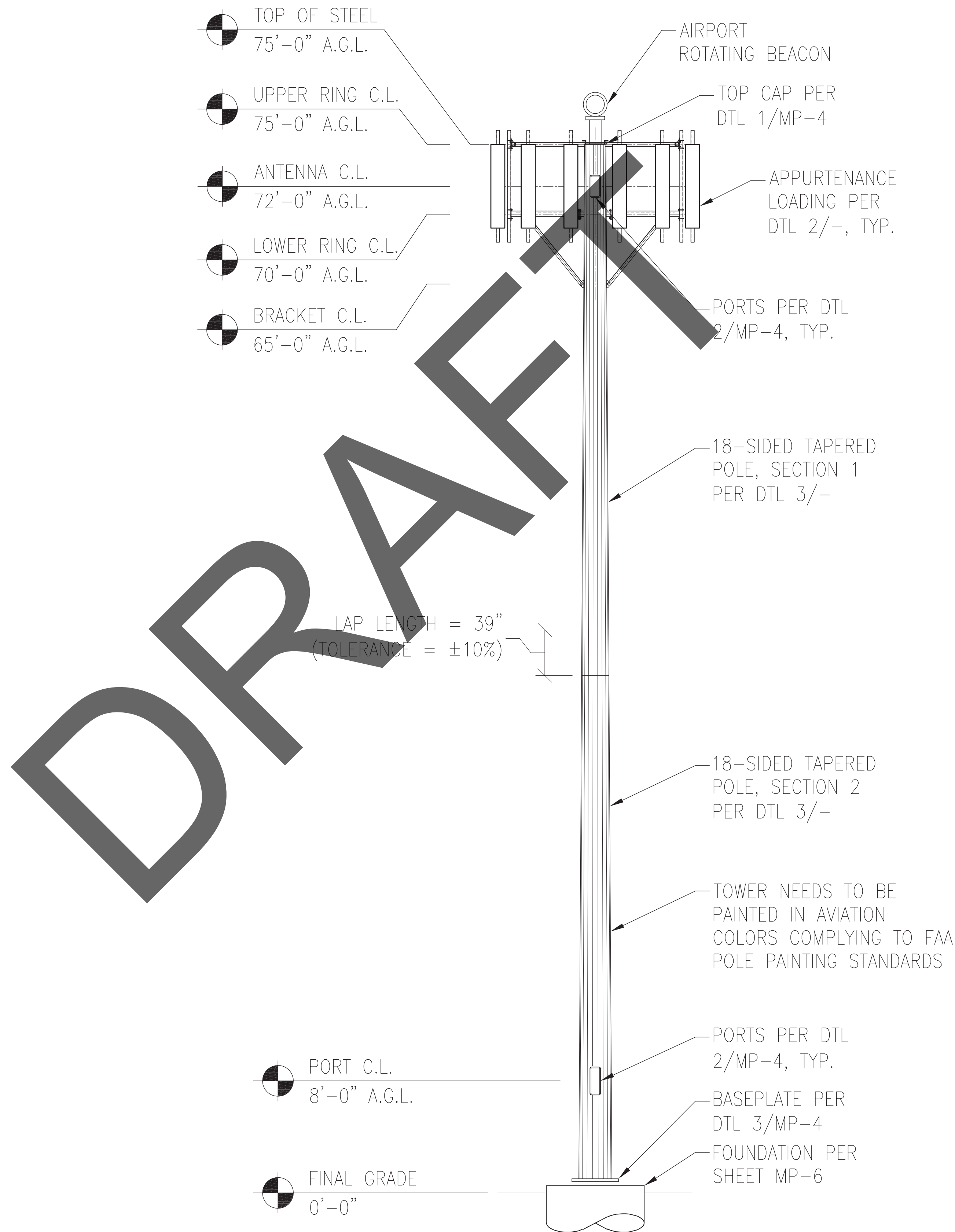
- SECTION WEIGHT INCLUDES PORTS. LOWEST SECTION WEIGHT INCLUDES BASEPLATE WEIGHT.
- DESIGN TAPER = 0.14 in/ft.
- WEIGHTS LISTED IN THIS CHART ARE RAW STEEL WEIGHTS. FINAL WEIGHTS MAY BE UP TO 22% GREATER DUE TO GALVANIZING AND OTHER MISCELLANEOUS ITEMS.
- DIAMETER OF POLE SECTIONS AT LAP SPLICES MAY BE ADJUSTED BY UP TO 0.06" TO ACCOUNT FOR THE THICKNESS OF COATINGS.

POLE SECTIONS

N.T.S.

3

NOTE: ANTENNAS & PORTS ARE SHOWN FOR ILLUSTRATIVE PURPOSES & ARE NOT NECESSARILY SHOWN TO SCALE



ELEVATIONS

N.T.S.

1

VERIZON



JOB #: 25-006



1635 N. Greenfield Rd., Suite 112 Mesa, AZ 85205 (480) 648-3514 www.vectorse.com

DATE: 3/4/25 DESIGNED: ALL DRAFTER: ALL

REVISIONS		
REV	DATE	DESCRIPTION

ELEVATION VIEWS

PASO ROBLES AIRPORT

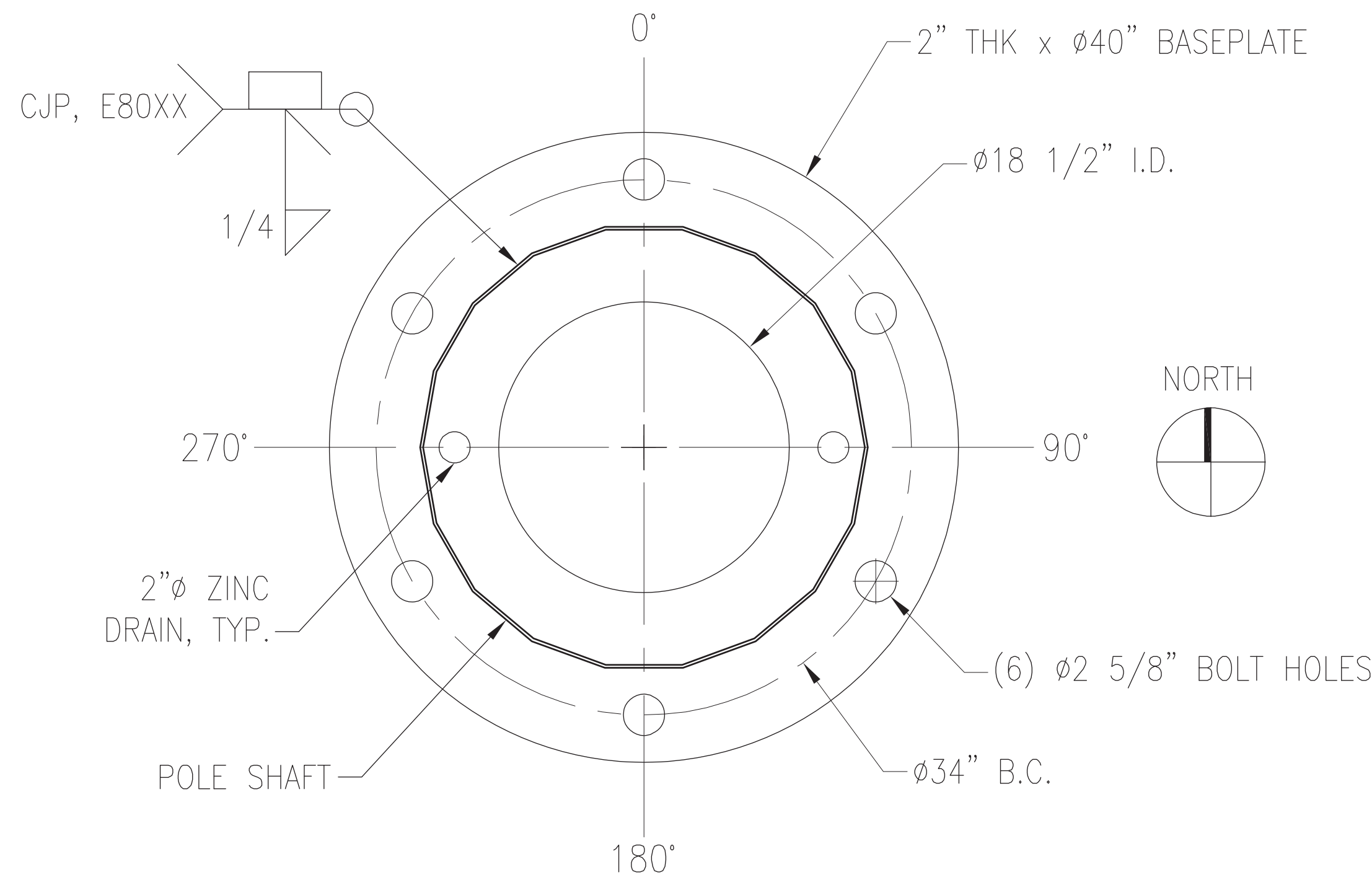
80'-0" MONOPOLE
 4960 WING WAY
 PASO ROBLES, CA 93446
 SAN LUIS OBISPO COUNTY

**PRELIMINARY
 NOT FOR
 CONSTRUCTION
 3/7/2025**

A1212-1085-251

MP-3

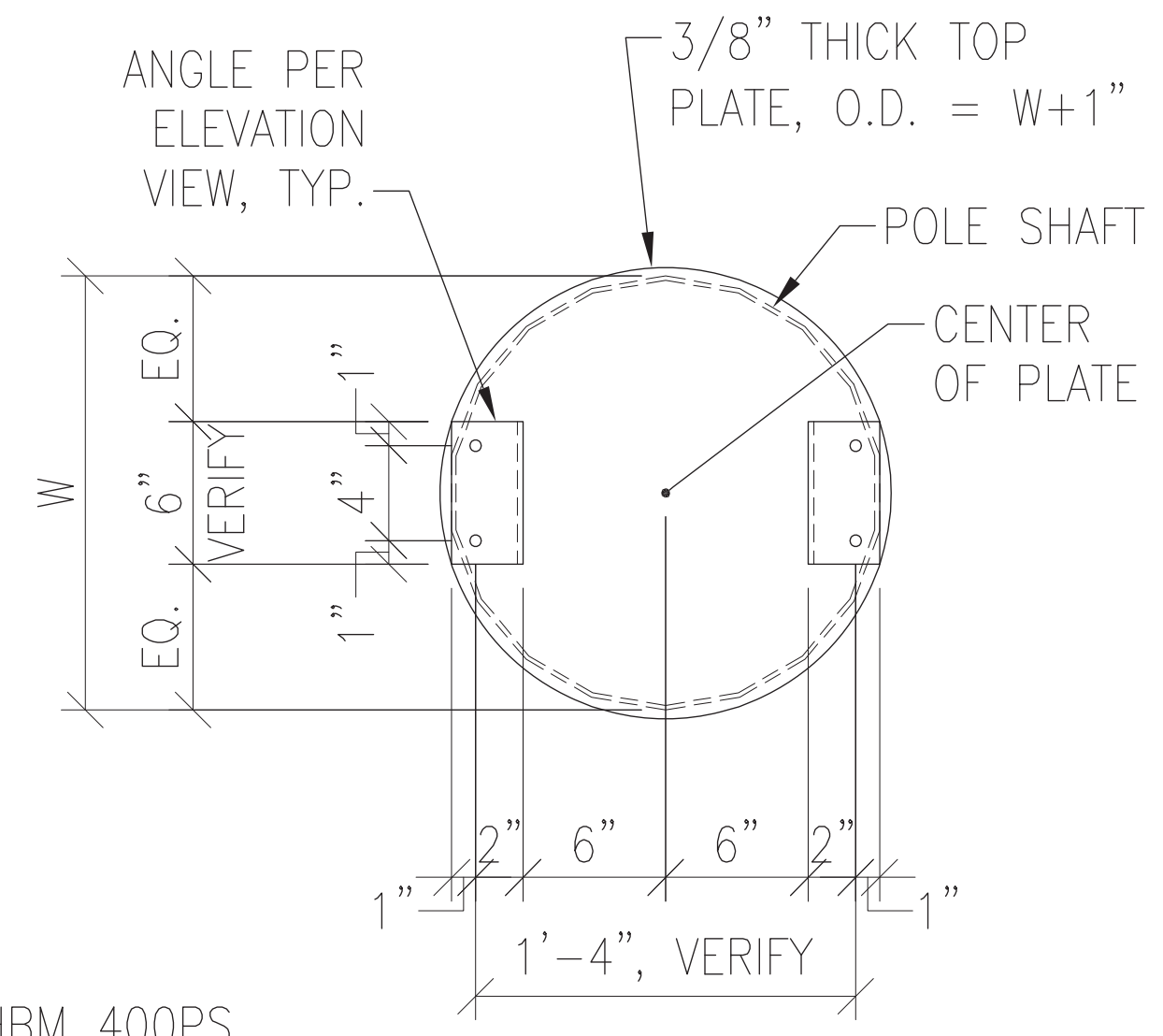
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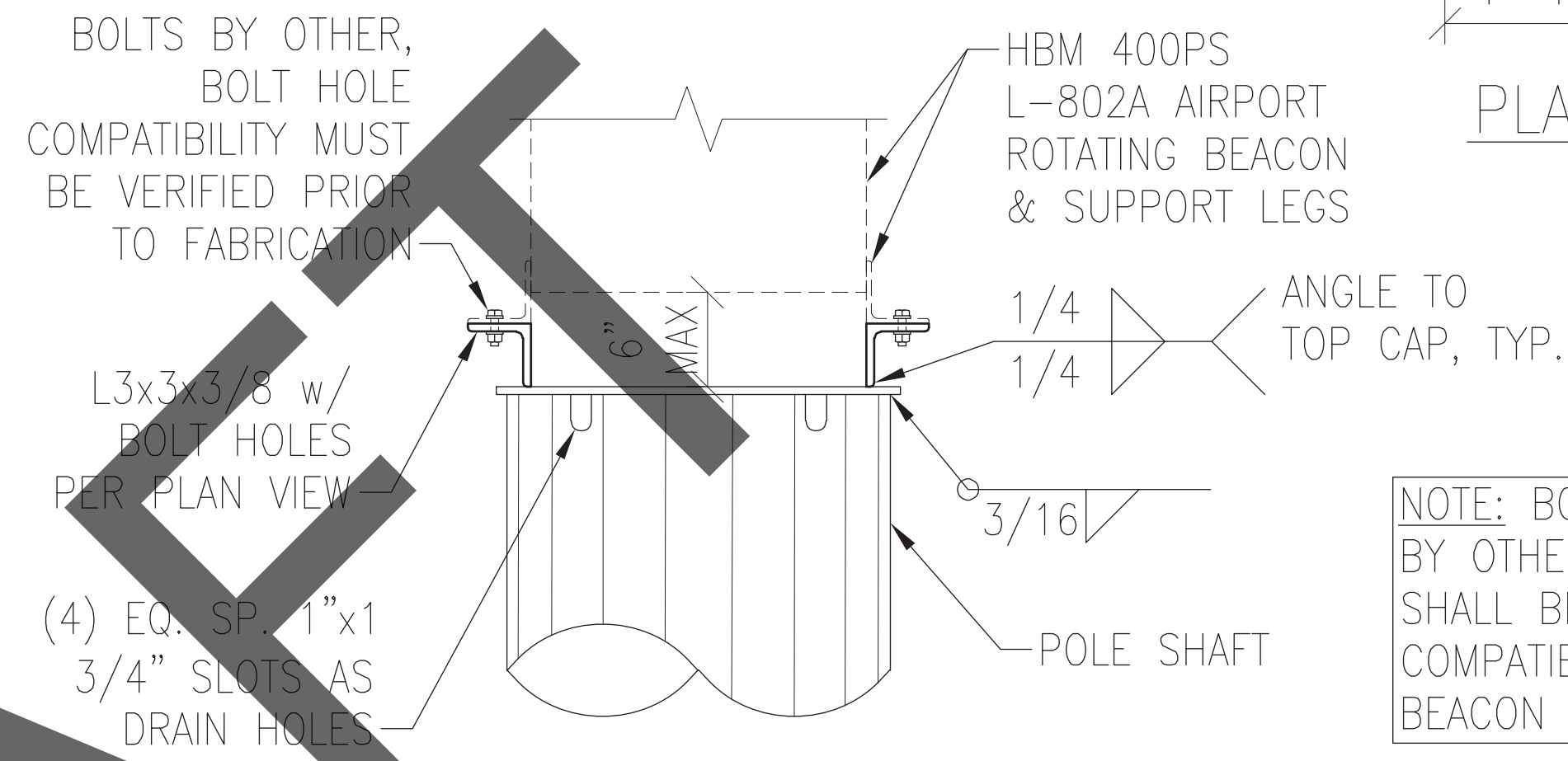
BASEPLATE

N.T.S. **3**

NOTE: ANY GALVANIZED SURFACES THAT BECOME DAMAGED DURING SHIPPING, WELDING, OR ERECTION MUST BE COATED WITH A MINIMUM OF TWO COATS OF COLD GALVANIZING COMPOUND THAT COMPLIES WITH THE REQUIREMENTS OF ASTM A780.



PLAN VIEW



ELEVATION VIEW TOP CAP

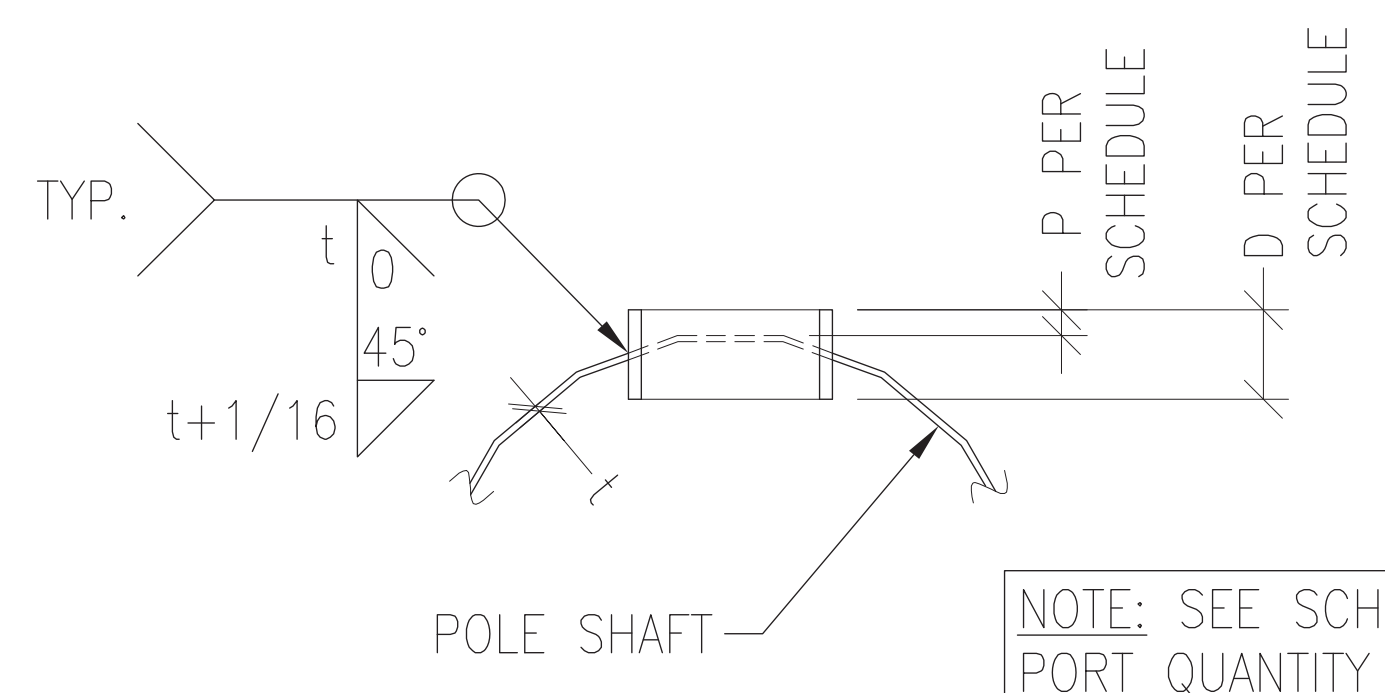
NOTE: BOLT HOLES SHALL BE BY OTHERS. BOLT PLACEMENT SHALL BE VERIFY FOR COMPATIBILITY WITH SPECIFIC BEACON PRIOR TO FABRICATION.

N.T.S. **1**

PORT SCHEDULE						
C.L. ELEV.	PORT SIZE (B x H)	D	P	T	QTY	AZIMUTH(S)
72'-0"	8"x18"	3"	1/2"	1/2"	3	0°/120°/240°
8'-0"	10"x30"	4"	1"	3/4"	2	0°/180°

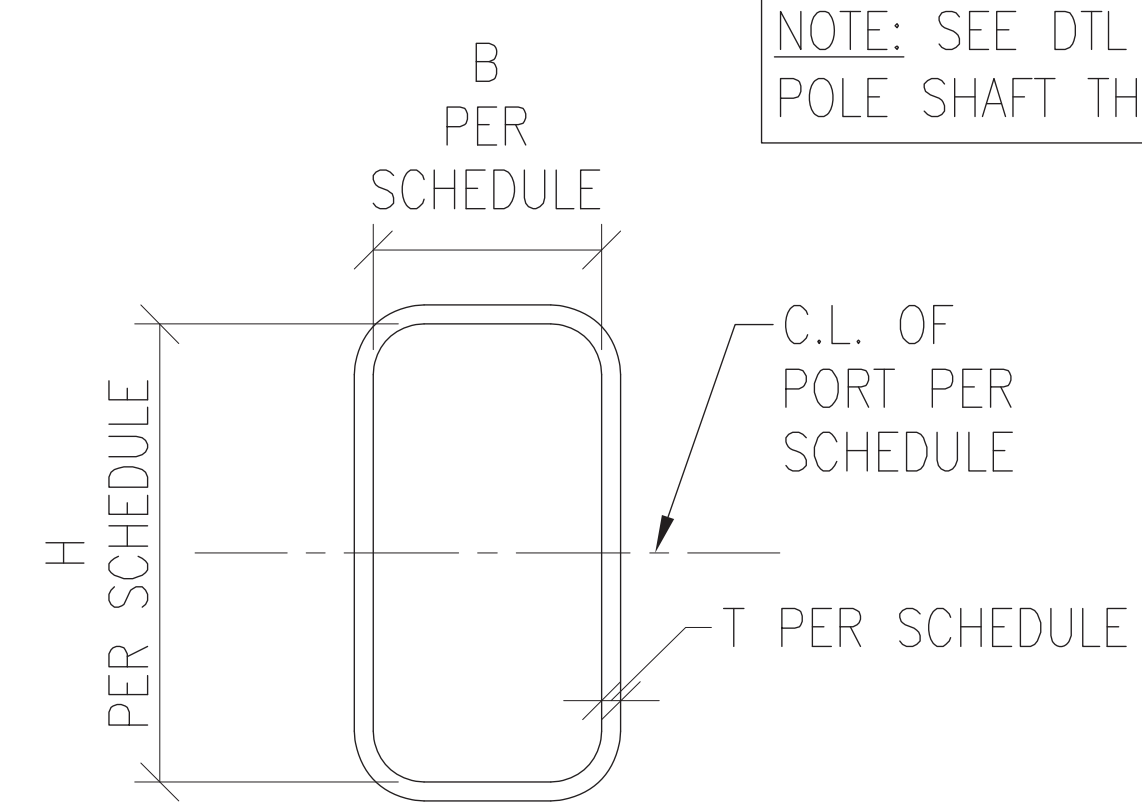
PORT SCHEDULE

N.T.S. **4**



SECTION VIEW

NOTE: SEE SCHEDULE FOR PORT QUANTITY & AZIMUTHS



ELEVATION VIEW

NOTE: SEE DTL 3/MP-3 FOR POLE SHAFT THICKNESS, t

PORTS

N.T.S. **2**

VERIZON



JOB #: 25-006



1635 N. Greenfield Rd., Suite 112 Mesa, AZ 85205 (480) 648-3514 www.vectorse.com

DATE: 3/4/25 DESIGNED: ALL DRAFTER: ALL

REVISIONS		
REV	DATE	DESCRIPTION

DETAILS
PASO ROBLES AIRPORT
 80'-0" MONOPOLE
 4960 WING WAY
 PASO ROBLES, CA 93446
 SAN LUIS OBISPO COUNTY

**PRELIMINARY
 NOT FOR
 CONSTRUCTION
 3/7/2025**

A1212-1085-251

MP-4 REV 0



REVISIONS		
REV	DATE	DESCRIPTION

ANTENNA MOUNT DETAILS

PASO ROBLES AIRPORT

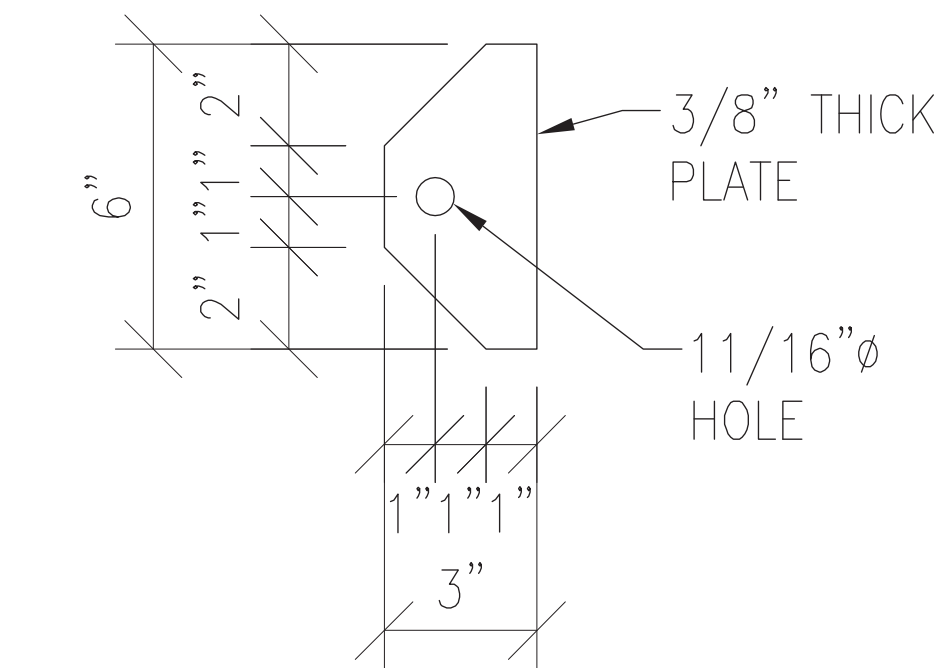
80'-0" MONOPOLE
4960 WING WAY
PASO ROBLES, CA 93446
SAN LUIS OBISPO COUNTY

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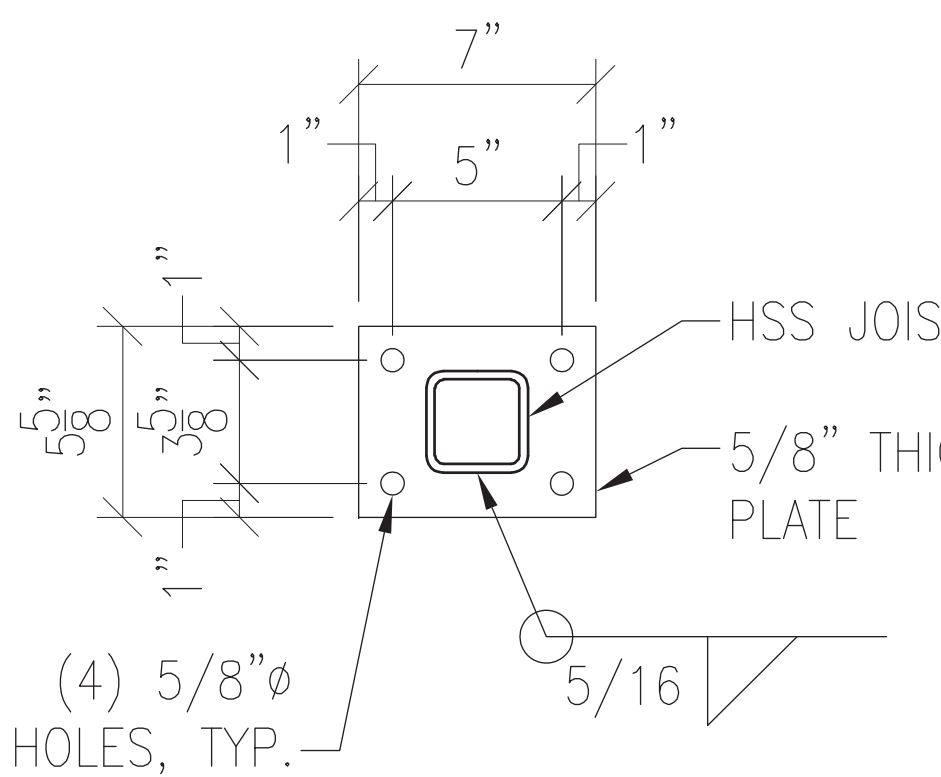
A1212-1085-251

MP-5

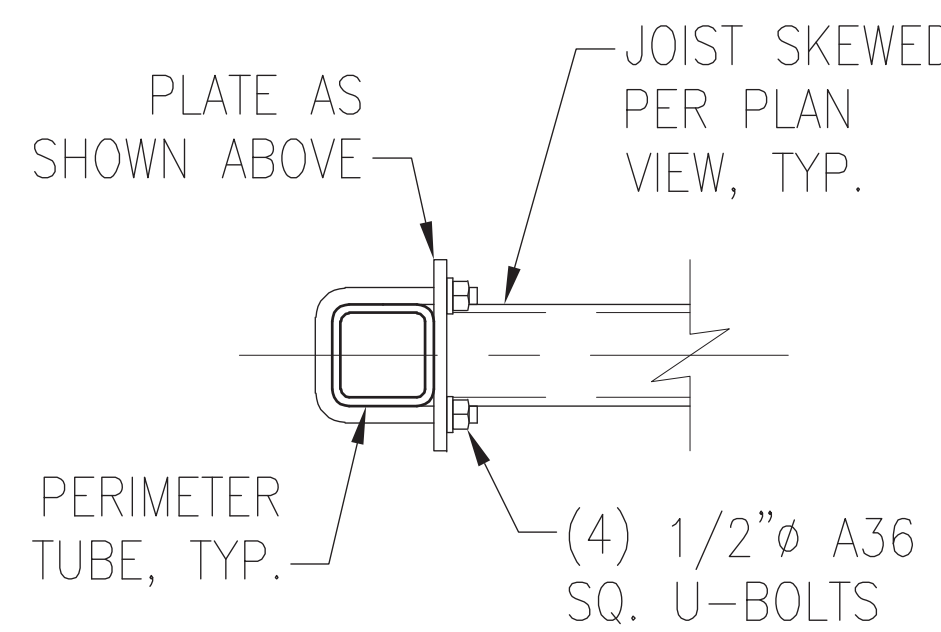
REV
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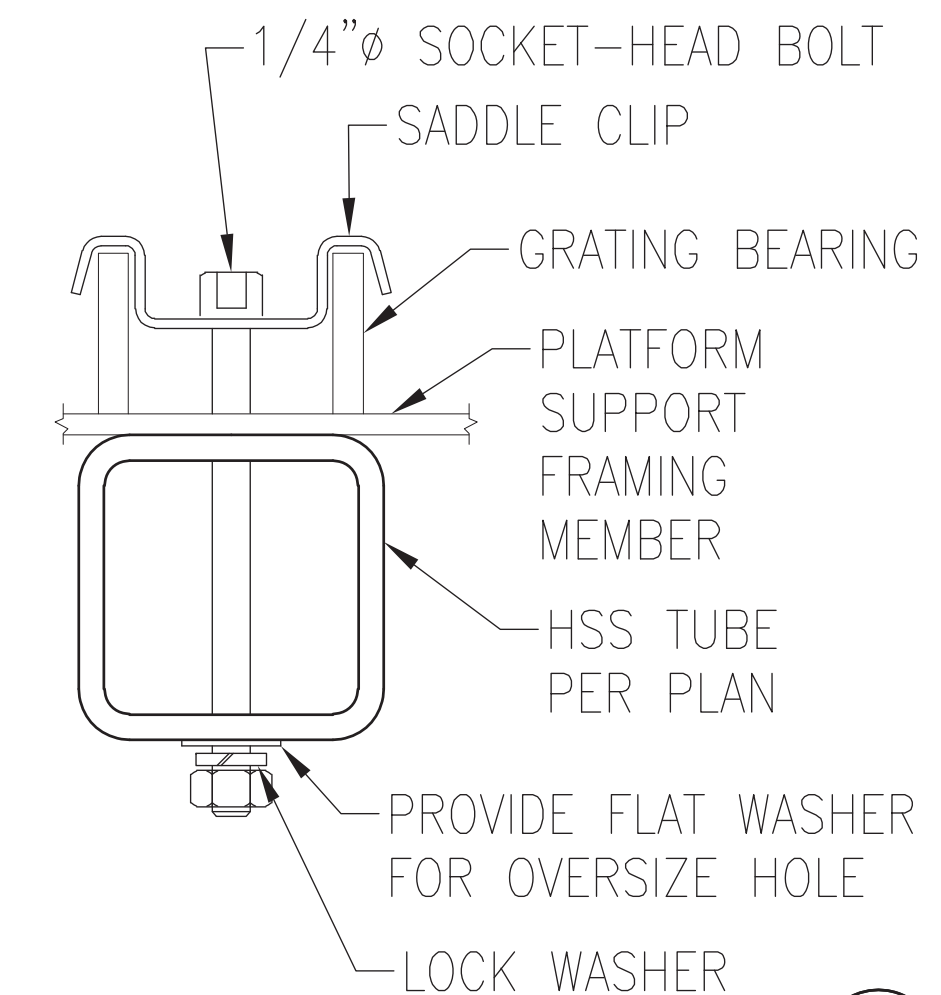
BRACKET N.T.S. **2**



JOIST TO PERIMETER TUBE CONNECTION PLATE



SIDE ELEVATION VIEW N.T.S. **3**



N.T.S. **8**

NOTE: CONFIRM ACCESS HATCH LOCATION PRIOR TO FABRICATION

NOTE: THE PLATFORM HAS BEEN DESIGNED FOR THE INITIAL LOADING ONLY (SEE DTL 2/MP-3)

NOTE: THE MOUNTS HAVE BEEN DESIGNED FOR THE INITIAL LOADING ONLY (SEE DTL 2/MP-3) - MOUNT CLASSIFICATION = M700R(0)-4[6] PER VZ NSTD-445

NOTE: PLATFORM HAS BEEN DESIGNED FOR 40 PSF LIVE LOAD

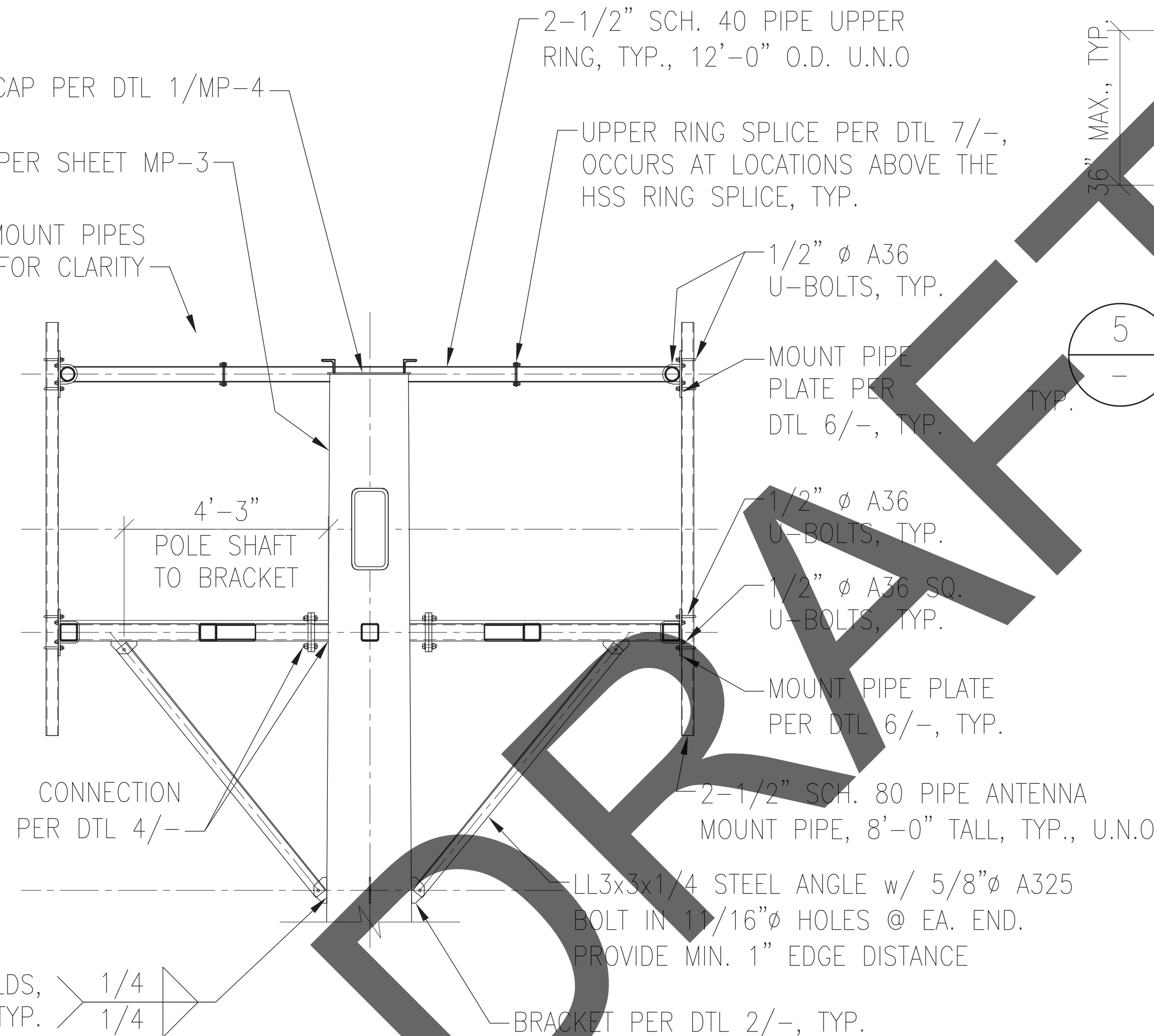
NOTE: PROVIDE FLAT & LOCK WASHERS AT ALL U-BOLT & A307 BOLT CONNECTIONS. A325 BOLTS SHALL BE PER THE STRUCTURAL SPECIFICATIONS ON SHEET MP-2.

TOP CAP PER DTL 1/MP-4

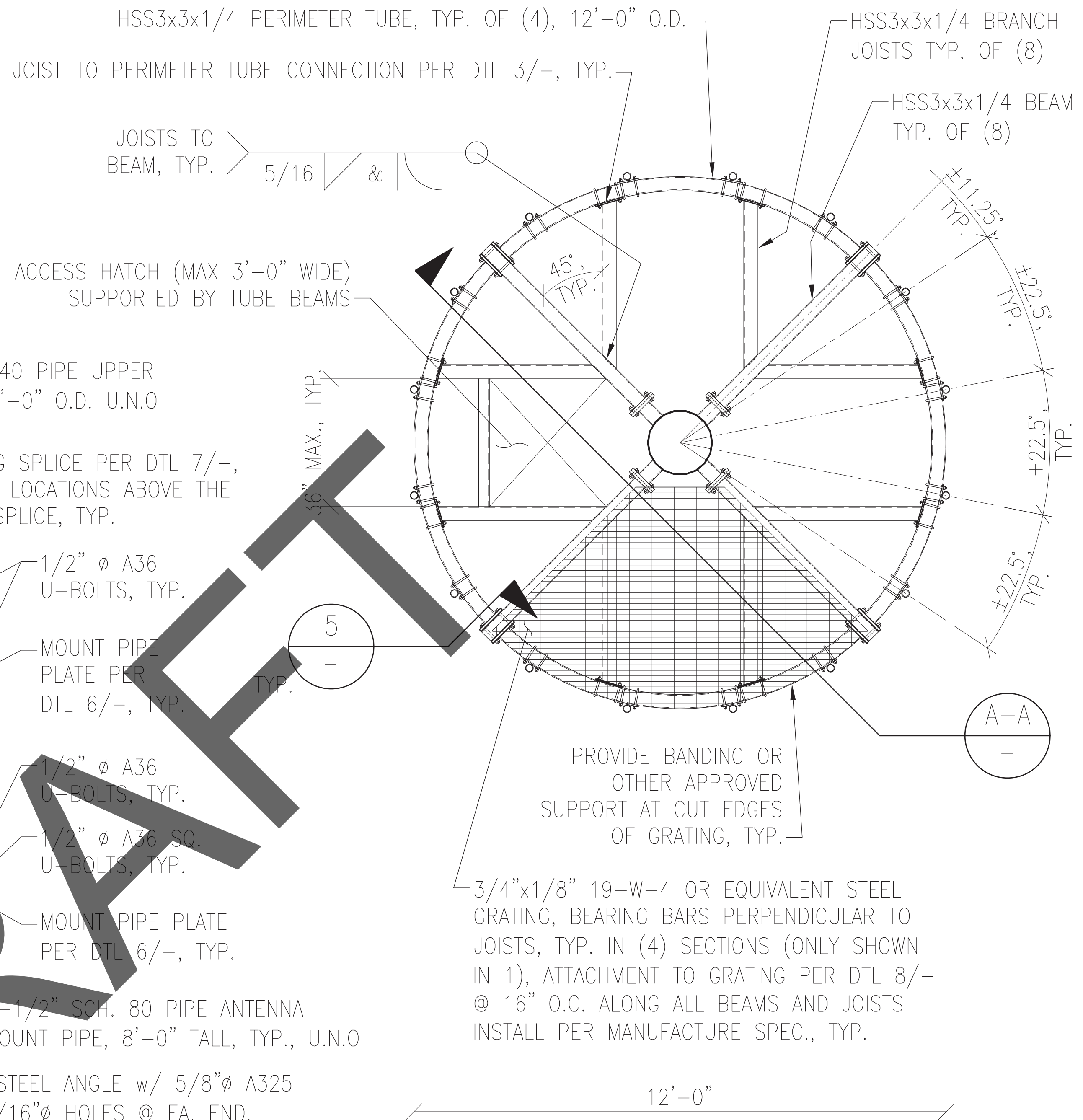
TAPERED POLE PER SHEET MP-3

ADDITIONAL ANTENNA MOUNT PIPES NOT SHOWN FOR CLARITY

- UPPER RING C.L. 75'-0" A.G.L.
- ANTENNA C.L. 72'-0" A.G.L.
- LOWER RING C.L. 70'-0" A.G.L.
- BRACKET C.L. 65'-0" A.G.L.



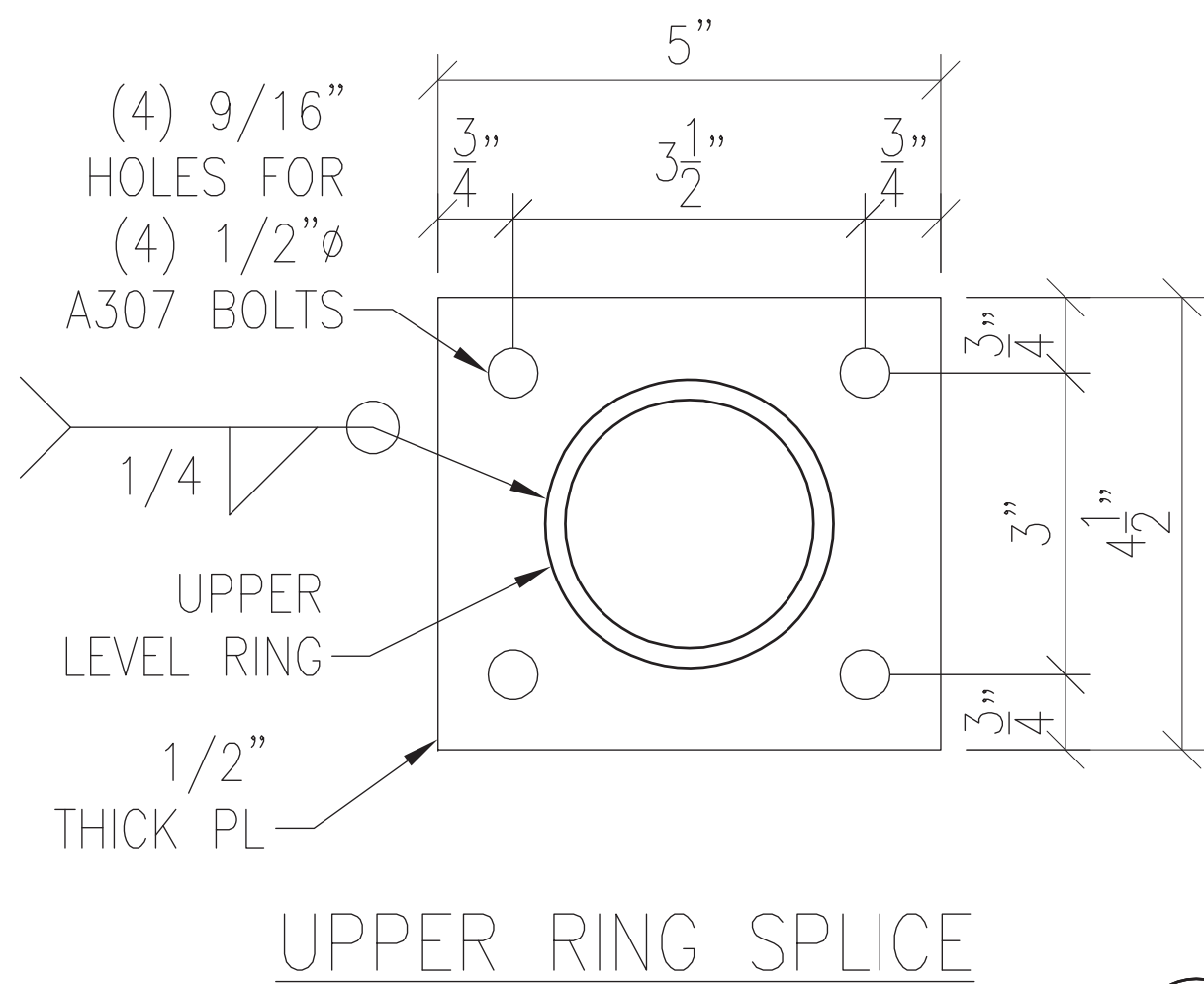
SECTION VIEW A-A



PLAN VIEW

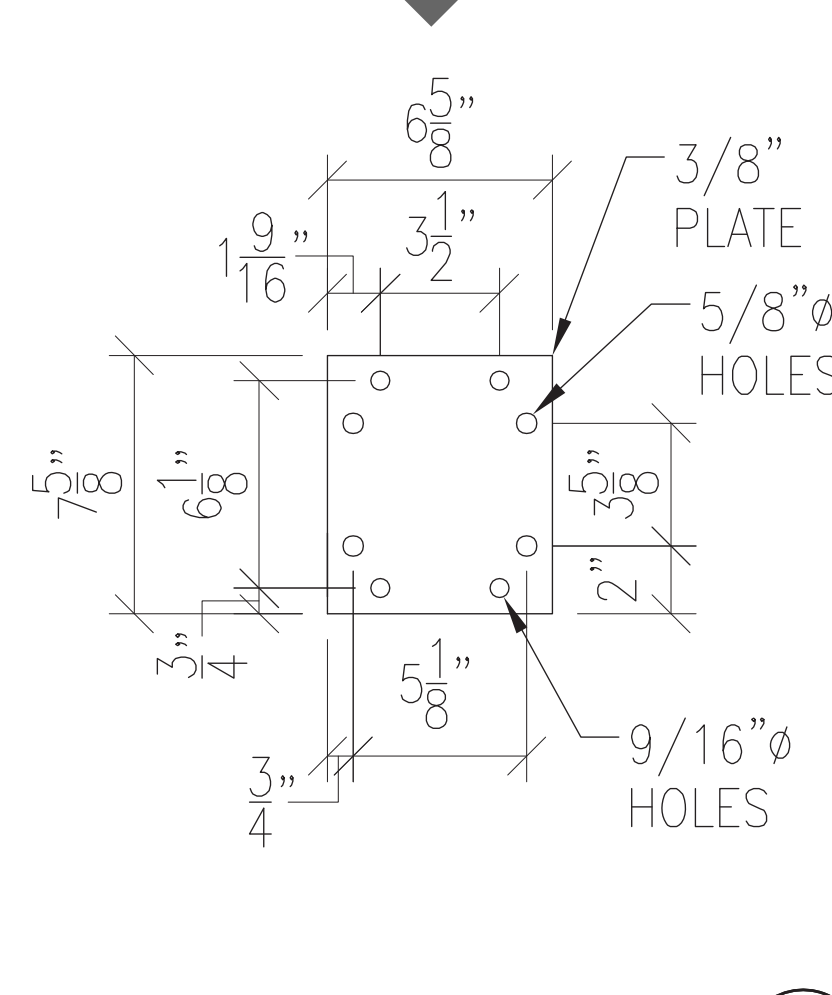
INITIAL LOADING ANTENNA MOUNT

N.T.S. **1**

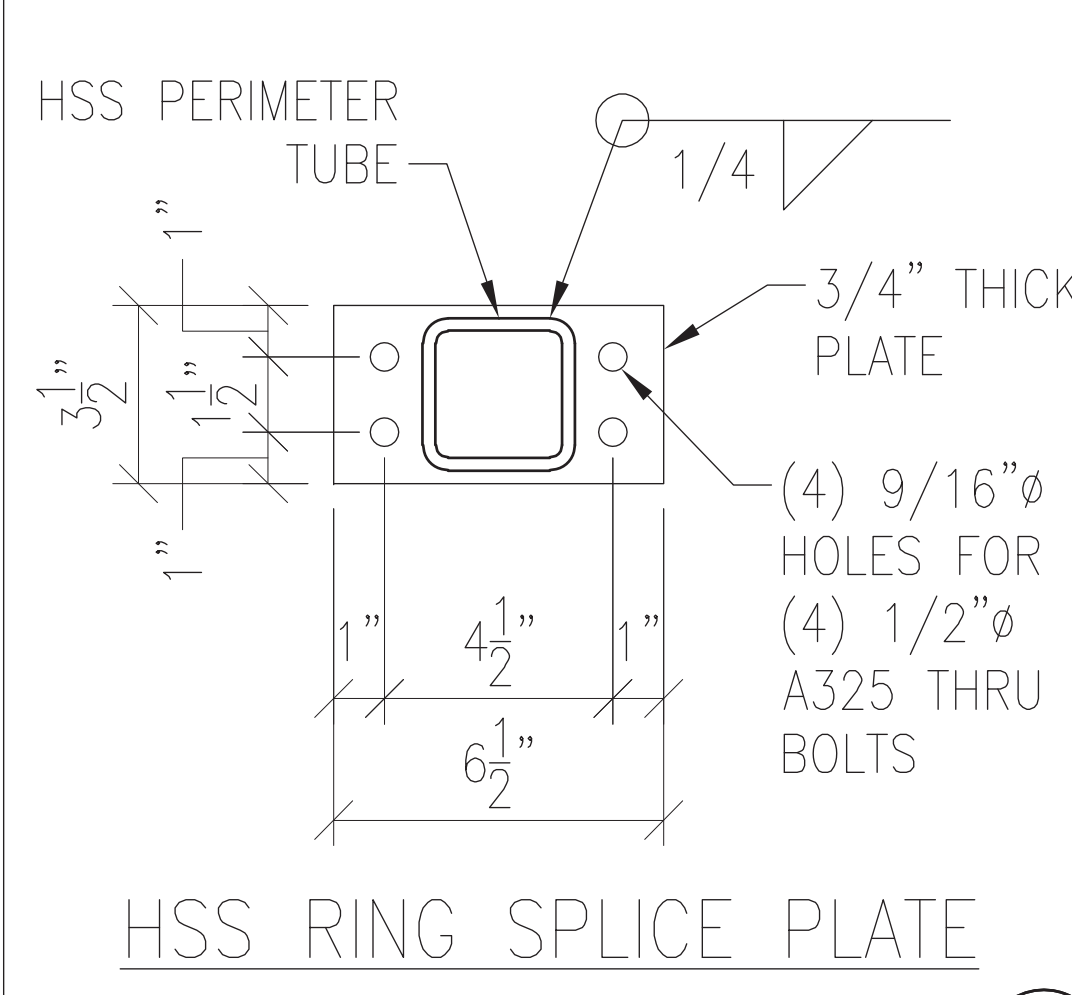


UPPER RING SPLICE

N.T.S. **7**

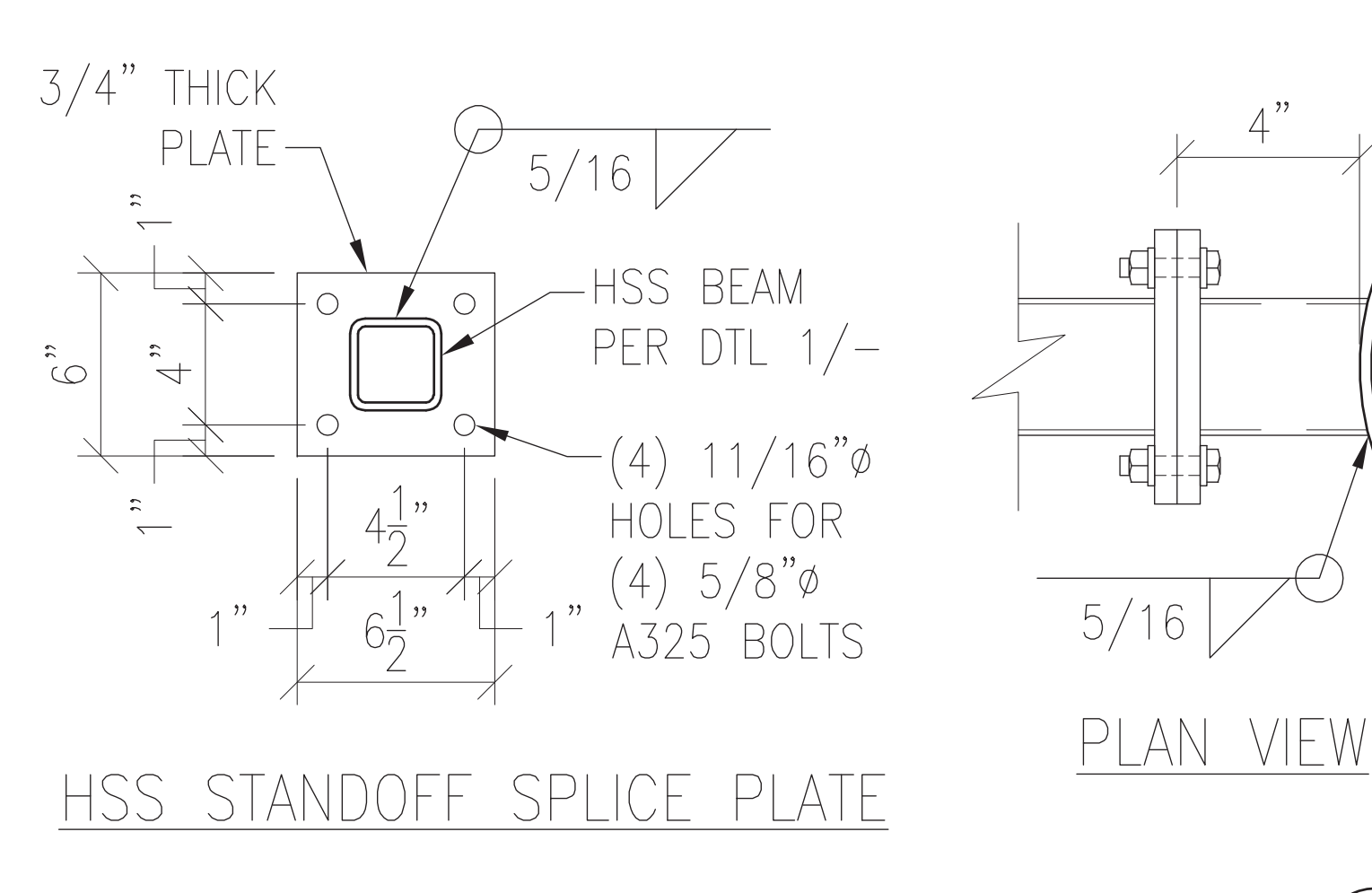


6



HSS RING SPLICE PLATE

N.T.S. **6**



HSS STANDOFF SPLICE PLATE

N.T.S. **4**

FOUNDATION NOTES:

1. FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT:

SALEM ENGINEERING GROUP, INC.
 REPORT: 2-217-1386
 DATE: FEBRUARY 14, 2025

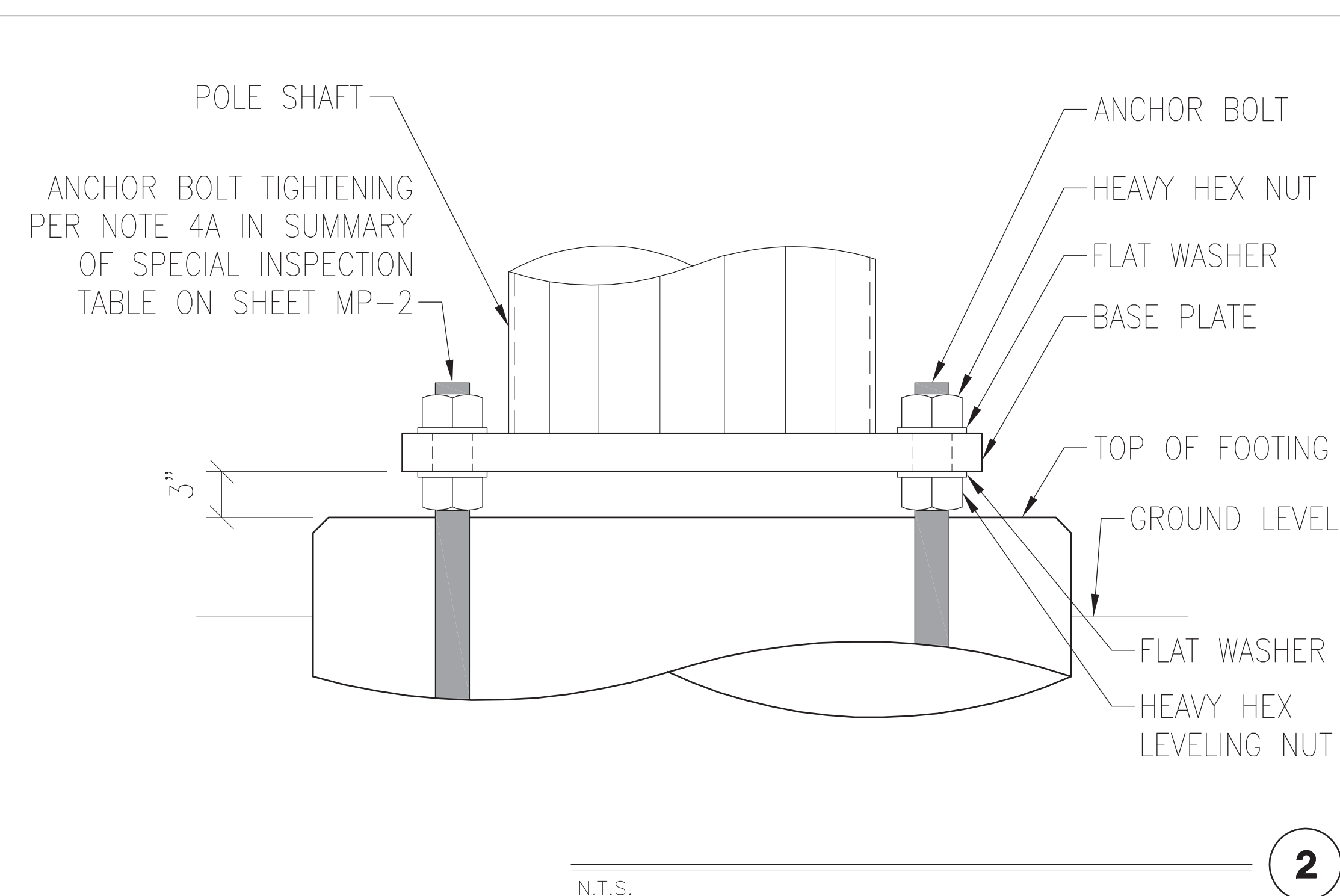
2. ALL CONCRETE SHALL USE TYPE II PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE SHALL HAVE A MINIMUM OF 6% ENTRAINED AIR (WHERE FROST DEPTH > 0"). CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.50. CONCRETE SHALL HAVE A SLUMP OF 5" (±1") IF PLACED IN A DRY SHAFT WITHOUT TEMPORARY CASING OR 7" (±1") IF A TEMPORARY CASING AND/OR DRILLING FLUIDS ARE USED UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL REPORT. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318-19. FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS," LATEST EDITION. SPECIAL INSPECTION SHALL BE PERFORMED AS REQUIRED PER CHAPTER 17 OF THE BUILDING CODE.

3. REINFORCING STEEL SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A-615, GRADE 60. ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315, LATEST EDITION, UNLESS DETAILED OTHERWISE ON THIS DRAWING.

4. INSTALLATION OF THE FOUNDATION MUST BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER FIRM. GEOTECHNICAL ENGINEER TO PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORD PURPOSES.

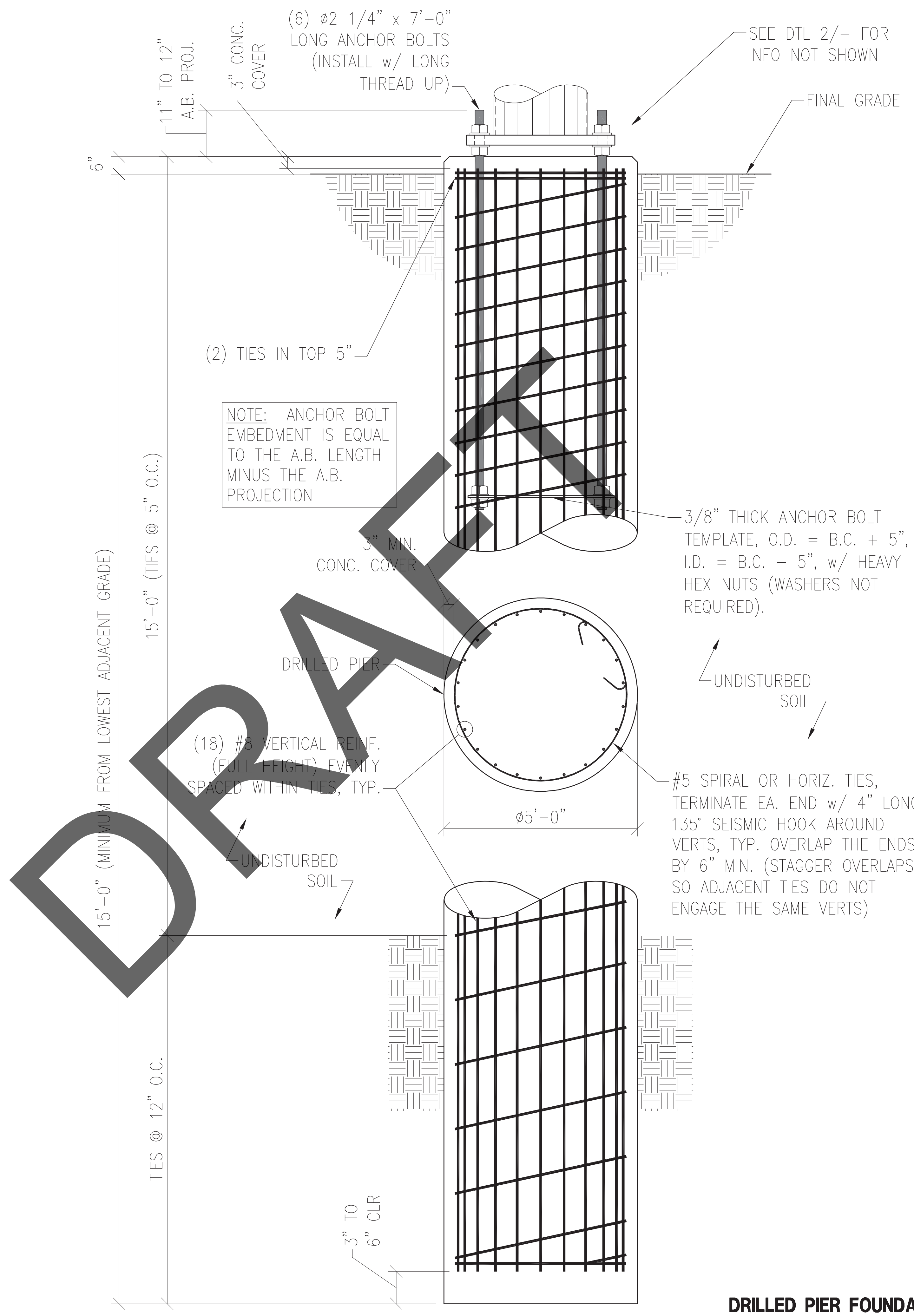
5. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT REGARDING INSTALLATION METHOD, REQUIRED EQUIPMENT, WARNINGS, AND ALL OTHER RECOMMENDATIONS OR REQUIREMENTS RELATED TO THE FOUNDATION

6. MONOPOLE MAY BE ERECTED 3-DAYS AFTER FOUNDATION IS INSTALLED AND ONCE CONCRETE STRENGTH IS AT LEAST 4000 PSI.



N.T.S.

2



NOTE: ANCHOR BOLT EMBEDMENT IS EQUAL TO THE A.B. LENGTH MINUS THE A.B. PROJECTION

DRILLED PIER FOUNDATION

N.T.S.

1

VERIZON



JOB #: 25-006



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DATE: 3/4/25 DESIGNED: ALL DRAFTER: ALL

REVISIONS		
REV	DATE	DESCRIPTION

FOUNDATION
 PASO ROBLES AIRPORT
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 PASO ROBLES, CA 93446
 SAN LUIS OBISPO COUNTY

**PRELIMINARY
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A1212-1085-251

MP-6 REV 0

Exhibit C Description – City Attachments

Airport Beacon Light: L-802A Airport Rotating Beacon HBM 400PS, or equivalent subject to prior written approval of City

http://www.halibrite.com/pdf_info/Specs/L802A_HBM400PS.pdf

Security Cameras: four Avigilon Alta H5A Multisensor Cloud Cameras (8MP minimum; 1-year storage capability; SOV Security as the preferred vendor (California Certified Small Business No. 05716))) manufactured within the United States, or equivalent subject to the prior written approval of City

<https://www.avigilon.com/security-cameras/h5a-multisensor-cloud>

DRAFT

Exhibit D Compliance with Federal Requirements

Licensee shall at all times maintain compliance with all federal requirements including but not limited to the following:

1. Licensee, for itself, its heirs, personal representatives, successors in interest, sublicensees and assigns, as a part of the consideration hereof, does hereby covenant and agree as a covenant running with the land that in the event facilities are constructed, maintained or otherwise operated on the said property described in this License for a purpose for which a Department of Transportation program or activity is extended or for another purpose involving the provision of similar services or benefits, Licensee shall maintain and operate such facilities and services in compliance with all other requirements imposed pursuant to Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-Assisted Programs of the Department of Transportation- Effectuation of Title VI of the Civil Rights Act of 1964, or as said Regulations may be amended.
2. Licensee, for itself, its personal representatives, successors in interest and assigns, as a part of the consideration hereof, does hereby covenant and agree as a covenant running with the land:
 - a. That no person on the grounds of race, color or national origin shall be excluded from participation in, denied the benefits of or be otherwise subjected to discrimination in the use of said facilities;
 - b. That in the construction of any improvements on, over or under such land and the furnishing of services thereon, no person on the grounds of race, color or national origin shall be excluded from participation in, denied the benefits of or otherwise be subject to discrimination; and
 - c. That Licensee shall use the Licensed Area in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally- Assisted Programs of the Department of Transportation-Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.
3. Licensee agrees that it shall insert this Exhibit D in any lease agreement by which said Licensee grants a right or privilege to any person, firm or corporation to render accommodations and/or services to the public on the Licensed Area herein leased.