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STATE OF HAMAS

2019 JAN 10 P 3: 15

BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of)	Docket No. A94-706
KAONOULU RANCH to Amend the Agricultural Land Use District Boundary into the Urban Land Use District for Approximately 88 acres at Kaonoulu, Makawao-Wailuku, Maui, Hawai'i; Tax Map Key Nos. (2) 2-2-02: por. 15 and 3-9-01:16		PETITIONERS' MEMORANDUM IN OPPOSITION TO INTERVENORS' MOTION TO CONDUCT PHASE II OF CONTESTED CASE PENDING SINCE 2012, AND FOR FINAL DECISION, FILED DECEMBER 3, 2018; DECLARATION OF RANDALL F. SAKUMOTO; EXHIBITS "1"-"3"; CERTIFICATE OF SERVICE
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EXHIBIT LIST

Exhibits	Description
Exhibit "1"	Declaration of Darren T. Unemori
Exhibit "A"	Letter dated October 18, 2003 from the County of Maui granting
	Preliminary Subdivision Approval re Kaonoulu Ranch (Large Lot)
	Subdivision No. 2, Subdivision File No. 2.2795
Exhibit "B"	Letter dated August 14, 2009 from the County of Maui granting
	Final Subdivision Approval re Kaonoulu Ranch (Large Lot)
	Subdivision No. 2, Subdivision File No. 2.2795 and Kaonolulu
	Ranch Water Tank Subdivision, Subdivision File No. 2.2995
Exhibit "C"	County-approved Final Subdivision Plat
	Kaonoulu Ranch (Large Lot) Subdivision No. 2, Subdivision File
	No. 2.2795
Exhibit "D"	County-approved Construction Plans
	Kaonoulu Ranch (Large Lot) Subdivision No. 2, Subdivision File
	No. 2.2795
Exhibit "E"	Email dated July 10, 2018 from the County of Maui granting a
	deadline extension re Kaonoulu Ranch (Large Lot) Subdivision No.
	2, Subdivision File No. 2.2795 and Kaonolulu Ranch Water Tank
	Subdivision, Subdivision File No. 2.2995
Exhibit "F"	Letter dated October 16, 2006 from the County of Maui granting
	Preliminary Subdivision Approval re Kaonoulu Light Industrial,
	Subdivision File No. 3.2175
Exhibit "G"	Preliminary Subdivision Plat re Kaonoulu Light Industrial,
	Subdivision File No. 3.2175
Exhibit "H"	1994 Conceptual Development Plan
	Kaonoulu Industrial Park
Exhibit "I"	Letter dated September 11, 2018 from the County of Maui granting
	a time extension re Kaonoulu Light Industrial, Subdivision File No.
	3.2175
Exhibit "2"	Declaration of Kenneth F. Gift
Exhibit "J"	2012 Purchase Orders for Construction Materials
	Goodfellow Bros., Inc.
Exhibit "3"	Declaration of Robert D. Poynor
Exhibit "K"	Assignment and Assumption of Agreement for Subdivision
	Approval, dated September 13, 2010
Exhibit "L"	Letter dated June 18, 2015 from the County of Maui confirming
	cash bond amounts re Kaonoulu Ranch (Large Lot) Subdivision No.
	2, Subdivision File No. 2.2795 and Kaonolulu Ranch Water Tank
	Subdivision, Subdivision File No. 2.2995

<u>PETITIONERS' MEMORANDUM IN OPPOSITION TO INTERVENORS'</u> <u>MOTION TO CONDUCT PHASE II OF CONTESTED CASE PENDING</u> SINCE 2012, AND FOR FINAL DECISION, FILED DECEMBER 3, 2018

Petitioners PIILANI PROMENADE SOUTH, LLC and PIILANI PROMENADE NORTH, LLC (collectively, "Piilani"), successors-in-interest to KAONOULU RANCH, a Hawai'i limited partnership, with regard to the real property that is the subject matter of Docket No. A94-706, as referenced above, submit to the State of Hawai'i Land Use Commission (the "Commission") their Memorandum in Opposition to Intervenors' Motion to Conduct Phase II of Contested Case Pending Since 2012, and for Final Decision.

I. <u>BACKGROUND</u>

A. Ownership of the Petition Area

Piilani owns six of the seven tax map key parcels (collectively, the "Piilani Parcels") encumbered by the Findings of Fact, Conclusions of Law, and Decision and Order issued by the Commission on February 10, 1995 in Docket No. A94-706 (the "D&O"). The Piilani Parcels are identified as tax map key parcels (2) 3-9-001:016 and :170-:174. The seventh parcel encumbered by the D&O is owned by Honua'ula Partners, LLC ("Honua'ula"), which has no affiliation with Piilani. Honua'ula owns tax map key parcel (2) 3-9-001:169, referred to herein as the "Honua'ula Parcel." The Honua'ula Parcel and the Piilani Parcels are collectively referred to as the "Petition Area."

B. Petition Area

The Petition Area is located within the State Land Use Urban District, and within the Urban growth boundary identified in the Maui Island Plan. The Petition Area is designated as LI Light Industrial under the Kihei-Makena Community Plan and is zoned within the M-1 Light Industrial district.

Lands located to the north, south, and west of the Petition Area are located in the State

Land Use Urban District. Lands located north of the Petition Area include a commercial

complex, which is within the State Land Use Urban District. This complex includes a selfstorage facility, a gas station, and an automobile sales lot. Located south of the Petition Area is

Kihei High School, which is also within the State Land Use Urban District. Lands located *makai*(west) of the Petition Area include the Kaonoulu Estates residential subdivision and the former

Maui Lu Resort, which are within the State Land Use Urban District. Lands located *mauka*(east) of the Petition Area and extending up to Lower Kula are used for commercial ranching and are within the State Land Use Agricultural District.

C. Procedural History

On May 23, 2012, Maui Tomorrow Foundation, Inc., South Maui Citizens for Responsible Growth, and Daniel Kanahele (collectively, the "Intervenors") filed a Motion for a Hearing, Issuance of Order to Show Cause, and Other Relief (the "Motion for Order to Show Cause"). In the Motion for Order to Show Cause, Intervenors contended in part that Piilani's intended use of the Piilani Parcels for the development of a retail project (the "Retail Project") violated Conditions 5, 15, and 17 of the D&O.

On September 10, 2012, the Commission granted Intervenors' Motion for Order to Show Cause, issued the Order to Show Cause, and ordered that a show cause hearing be set for the entire Petition Area (the "Show Cause Hearing"). Pursuant to the Prehearing Order, entered on September 11, 2012, the Commission stated that it would "first consider whether [Piilani] and [Honua'ula had] violated the applicable conditions of the [D&O]" ("Phase I"); and "should [the] Commission find that Piilani and/or Honua'ula has failed to perform according to the conditions imposed or the representations or commitments made, [the] Commission will then determine whether reversion or other designation is the appropriate remedy" ("Phase II").

On November 1, 2, 15, and 16, 2012, the Commission heard evidence and arguments in Phase I of the Show Cause Hearing. At a meeting on February 7, 2013, the Commission orally found that Piilani's and Honua'ula's proposed uses of the Petition Area would violate Conditions 5 and 15 of the D&O, and that Condition 17 had also been violated. No written order reflecting that oral decision was entered.

On April 18, 2013—because Piilani sought to amend the D&O to allow Piilani to develop a project different from the project originally presented to the Commission as part of the 1995 D&O proceedings—Piilani filed a Motion to Stay Phase II of the Order to Show Cause Proceeding (the "Motion to Stay"). In the Motion to Stay, Piilani requested a stay of the Phase II hearing so the Commission could consider Piilani's Motion for Order Amending the Findings of Fact, Conclusions of Law, and Decision and Order dated February 10, 1995 (the "Motion to Amend"). On June 27, 2013, the Commission granted the Motion to Stay, and ordered the Phase II hearing stayed on the conditions that Piilani file its Motion to Amend before December 31, 2013, and that no construction on the Petition Area occur during the stay. Piilani filed its Motion to Amend on December 31, 2013.

In connection with the mixed-use project contemplated by the Motion to Amend, which incorporated light industrial, business/commercial, and multi-family uses (the "Mixed Use Project"), Piilani prepared an environmental impact statement ("EIS"). In June 2017, Piilani submitted the final EIS to the Commission for processing in connection with its review of the Motion to Amend. After two days of public hearings, the Commission denied the acceptance of the final EIS prepared for the Mixed-Use Project on July 20, 2017.

In its July 5, 2018 status report to the Commission, Piilani advised that it and Honua'ula would develop the Petition Area in substantial compliance with the representations made to the

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Commission during the D&O proceedings (the "Original Plan"). The Original Plan was to develop a 123-lot commercial and light industrial subdivision within the Petition Area. Piilani, along with Honua'ula, reaffirmed their intention to develop the Petition Area in substantial compliance with the Original Plan at the July 11, 2018 meeting of the Commission.

Following the non-acceptance of the EIS in July 2017, Piilani and Honua'ula met with their consultants to discuss the design and development of a plan substantially compliant with the Original Plan. In January 2018, Piilani retained Koa Partners, LLC ("Koa") to lead the approval, design, and development efforts, and to identify, reach out to and discuss with stakeholders, including the Intervenors and other interested community members, the development of the Petition Area in substantial compliance with the Original Plan.

As part of the outreach process, Koa arranged meetings with representatives from various subsections of the community, including the Intervenors, ancestral descendants of the Petition Area and surrounding region, and persons who testified in the July 2017 EIS hearing. In addition, Koa arranged for a large meeting and published the meeting time and date in The Maui News, inviting all members from the public to attend. During the year-long outreach process, Koa conducted more than two dozen meetings with the community, as well as numerous one-on-one meetings. Each meeting discussion was intended to solicit feedback on matters of interest to the community, with the ultimate goal of presenting a development concept which both substantially complies with the representations made to the Commission, and reflects input received during the outreach process. While Koa did not receive specific objections to the Original Plan, the Intervenors and other members of the public expressed an interest in seeing that the development incorporate concepts reflecting cultural sensitivity, more open space, and other types of uses (other than just light industrial).

Based on community input, Koa prepared a development plan that includes affordable and senior housing options, and preserved certain physical elements within the Petition Area, including an unnamed natural drainageway that transects the Petition Area in a northeast-to-southwest direction and certain archaeological sites. The development plan also included a celestial viewing area, and preserved vernal and autumnal equinox view planes.

After almost a year of discussions and meaningful progress toward a mutually acceptable development proposal compatible with the Original Plan, the Intervenors notified Piilani of their intent to end all further discussions with Koa. Shortly thereafter, on November 30, 2018, the Intervenors filed a Motion to Conduct Phase II of Contested Case Pending Since 2012, and for Final Decision (the "Phase II Motion"). Piilani affirms that it will continue to proceed with a development proposal that is substantially compliant with the Original Plan, with accommodations to cultural areas based upon input from the community.

II. ANALYSIS

A. Phase II Cannot Begin Because Phase I Has Not Been and Cannot Be Completed

In the Phase II Motion, Intervenors acknowledge that Phase II may not be initiated until Phase I is completed, and accordingly request that the Commission issue findings of fact and conclusions of law as to the Phase I proceedings (the "Phase I Findings"). Intervenors' request may not be granted as a matter of law, because the Commission is not authorized to enter findings more than 365 days following the entry of an order to show cause. In addition, Intervenors' request to adopt Phase I Findings based on the parties' submittal of proposed findings of fact and conclusions of law is inequitable, as the procedural history and actions taken by the parties in the interim period have materially impacted the facts that served as a basis for the proposed Phase I Findings.

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1. <u>The Commission May Not Enter Findings of Fact More Than 365 Days After the</u> Entry of an Order to Show Cause

The Commission entered the Order to Show Cause on September 10, 2012 and thereafter bifurcated the Show Cause Hearing into two phases: first, the Phase I evidentiary hearings to determine whether a violation had occurred, and second, if a violation was found, the Phase II hearings to determine whether reversion or other designation is the appropriate remedy.

The Order to Show Cause stated that the Commission "will conduct a hearing on this matter in accordance with the requirements of chapter 91, [Hawai'i Revised Statutes ("HRS")], and subchapters 7 and 9 of chapter 15-15, [Hawai'i Administrative Rules ("HAR")]. More specifically, the Commission "shall conduct a hearing on an order to show cause in accordance with the requirements of [title 15, chapter 15,] subchapter 7, where applicable" with "decisions and orders [to] be issued in accordance with subchapter 7 or subchapter 9." Section 15-15-93 (c), (d), HAR.

Subchapter 7, HAR provides in relevant part that any decision must be rendered:

prior to a period of **not more than three hundred sixty-five days after the petition has been deemed a proper filing** by the commission or the executive officer, unless otherwise ordered by a court, or unless a time extension, not to exceed ninety days, is established by a two-thirds vote of the members of the commission, the commission, by filing findings of fact and conclusions of law, shall act to approve the petition, deny the petition, or to modify the petition by imposing conditions in accordance with subchapter 11. If the commission fails to act on the petition pursuant to Section 205-4(g), HRS, the petition shall be deemed approved, subject to the provisions of section 15-15-90(e).

Section 15-15-74(b), HAR (emphases added). The 365-day deadline to enter findings of fact and conclusions of law is mirrored in Section 205-4(g), HRS:

Within a period of not more than three hundred sixty-five days after the proper filing of a petition, unless otherwise ordered by a court, or unless a time extension, which shall not exceed ninety days, is established by a two-thirds vote of the members of the commission, the commission, by filing findings of fact and conclusions of law, shall act to approve the petition, deny the petition, or to modify the petition by imposing conditions necessary to uphold the intent and

spirit of this chapter or the policies and criteria established pursuant to Section 205-17 or to assure substantial compliance with representations made by the petitioner in seeking a boundary change.

(Emphases added). These 365-day timelines are mandatory and included to give certainty to land use proceedings and to avoid requests from being stalled indefinitely. Town v. Land Use Comm'n, 55 Haw. 538, 544, 524 P.2d 84, 88 (1974) (holding that time period under Section 205-4(b), HRS is mandatory and stating that interested parties to the hearing "should not be placed in a state of limbo at the discretion of the applicant or the [Commission], and the time limitations prescribed by [Section 205-4, HRS] and LUC Regulation 2.35 insures the protection of both the applicant and the adjoining landowners at both extremes") (distinguished on other grounds).

In <u>DW Aina Le'a Development, LLC v.</u> Bridge Aina Le'a, LLC, 134 Hawai'i 187, 339 P.3d 685 (2014), the Hawai'i Supreme Court interpreted the Commission's obligations in a contested reversion of land following the issuance of an order to show cause. Finding that the property owners had substantially commenced use of the land, the Hawai'i Supreme Court held that the Commission was bound by the requirements of Section 205-4, HRS. In particular, the Hawai'i Supreme Court specifically applied the 365-day period stated in Section 205-4(g), HRS to the resolution of the order to show cause, explaining that the Commission's duty to resolve an order to show cause must be completed within "365 days after the initial [order to show cause] was issued." <u>Id.</u> at 216, 339 P.3d at 714. The Hawai'i Supreme Court found that the Commission's rolling and continuing order to show cause proceedings failed to comply with the requirements of Section 205-4, HRS because the proceedings far exceeded the stated 365-day period, ultimately contributing to the resulting reversal of the Commission's final order of reversion.

Instead of overturning the Commission's order on the basis that the Commission failed to comply with the 365-day requirement of Section 205-4, HRS, the <u>Bridge Aina Le'a</u> Court also analyzed whether the developers had substantially commenced use of the land. The factual circumstances in that case, namely that a reversion of the land actually occurred, may have led the Court to apply this two-step analysis.

Unlike <u>Bridge Aina Le'a</u>, the Commission has not yet reverted the Petition Area.

Accordingly, analysis of whether substantial commencement of the use of the land has occurred is premature.¹ The statutory 365-day rule is the sole consideration of whether the Commission may enter findings of fact and conclusions of law on this matter and at this time. Adopting Phase I Findings, as sought by the Intervenors, would constitute a violation of Section 205-4, HRS and Section 15-15-93, HAR².

¹ Even assuming, *arguendo*, that the <u>Bridge Aina Le'a</u> two-step analysis is applicable, because Piilani has substantially commenced use of the Petition Area in accordance with the representations made to the Commission in 1995 as stated *infra*, the Commission is required to comply with the provisions of Section 205-4(g), HRS requiring adoption of findings of fact and conclusions of law within the 365-day period.

² A hearing on an order to show cause must comply with subchapter 7 "where applicable." Section 15-15-93(c), HAR (emphasis added). Although Section 15-15-74(b), HAR automatically deems a petition for district boundary amendments approved "[i]f the commission fails to act on the petition pursuant to Section 205-4(g)[, HRS]," this is specific to petitions for boundary amendment and not an order to show cause. This is evidenced by the legislative history of the enabling statute for this provision, Section 91–13.5, HRS, which requires state and county agencies to adopt rules specifying a maximum time period for granting or denying a business or development-related permit, and was intended to address concerns about the "lengthy and indeterminate time required for business and development-related regulatory approvals[.]" 1998 Haw. Sess. Laws Act 164, § 2 at 613. An order to show cause is not a business or development-related regulatory approval. The literal application of the automatic approval provision is therefore inconsistent with the policies of Section 91–13.5, HRS. The legislative history indicates a clear intent to apply this provision to business and development-related permit approvals: stripping this provision of its stated purpose is inconsistent with the reason and spirit of the law. Further, it is unclear what it would mean to "approve" of an evidentiary hearing, and thus literal application of the provision produces an absurd result.

In conclusion, the 365-day deadline stated in Section 15-15-74(b), HAR, applies to the resolution of the Order to Show Cause. Here, the Commission issued the Order to Show Cause on September 10, 2012. Therefore, the Commission had a duty to file its Phase I Findings by September 10, 2013. To this end, following the Phase I evidentiary hearings, Piilani timely submitted its proposed Findings of Fact and Conclusions of Law and Decision and Order on December 21, 2012, and the County of Maui Department of Planning filed its joinder to Piilani's proposed findings on December 21, 2012. The State of Hawai'i Office of Planning also submitted their Proposed Findings of Fact, Conclusions of Law, and Decision and Order on Petitioners' Failure to Perform According to Conditions Imposed on the Petition on December 21, 2012, and the Intervenors submitted their Proposed Findings of Fact for Phase One on December 24, 2012. To date, however, and without any further action or explanation, the Commission has never issued its own required Phase I Findings.

The conclusion that the Phase I Findings are untimely is not altered by the Motion to Stay filed by Piilani on April 18, 2013. The Motion to Stay addressed and pertained to the Phase II proceedings only. Piilani did not request that the Commission delay, extend, or toll any action as to the Phase I Findings.

Entering the Phase I Findings more than 365 days after the issuance of the Order to Show Cause is a violation of Section 15-15-74(b), HAR. Because the 365-day period has lapsed, the Commission lacks authority to enter the Phase I Findings. Accordingly, Intervenors' request that the Commission adopt the Phase I Findings cannot be granted by the Commission as a matter of law. Phase II Motion at 3.

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2. The Commission May Not Enter Phase I Findings Based on the Proposed Findings of Fact and Conclusions of Law Submitted by the Parties in 2013

The Intervenors request that the Commission "adopt findings of fact and conclusions of law with respect to Phase I of the contested case based on the previous submissions of the parties." Phase II Motion at 19. Following the completion of the Phase I evidentiary hearings, each of Piilani, Intervenors, and the State of Hawai'i Office of Planning submitted proposed Phase I Findings (the "Proposed Phase I Findings"). Each of the Proposed Phase I Findings only include findings as of December 2012.

As noted *supra*, Piilani has taken many actions since December 2012, including filing the Motion to Amend, preparing an EIS, and preparing a development proposal that is substantially compliant with the Original Plan. None of the Proposed Phase I Findings speak to these actions, which actions are well documented and appear on the Commission's docket. Thus, all of the Proposed Phase I Findings now contain incorrect findings of fact and conclusions of law. For example, each of the Proposed Phase I Findings state that Piilani will develop the Retail Project,³ even though, as represented in its July 5, 2018 status report to the Commission, Piilani represented that it would develop the Piilani Parcels in substantial compliance with Original Plan. This is just one example of how each of the Proposed Phase I Findings incorrectly state a material fact.

Findings "must be sufficient to allow the reviewing court to track the steps by which the agency reached its decision." <u>Kilauea Neighborhood Ass'n v. Land Use Comm'n</u>, 7 Haw. App. 227, 230, 751 P.2d 1031, 1034 (1988). Each of the Proposed Phase I Findings are replete with

³ See State of Hawai'i Office of Planning's Proposed Findings of Fact, Conclusions of Law, and Decision and Order on Petitioners' Failure to Perform According to Conditions Imposed on the Petition, Finding of Fact ¶ 16; the Intervenors' Proposed Findings of Fact for Phase One, Finding of Fact ¶ 13; Piilani's Findings of Fact and Conclusions of Law and Decision and Order, Finding of Fact ¶ 19.

factual inaccuracies due to the different state of events since 2012, and material steps such as the filing of the Motion to Amend are not reflected. Entering Phase I Findings based on the Proposed Phase I Findings would be clear error and contrary to substantial evidence on the record.

B. Because the Commission Cannot Enter the Phase I Findings, the Commission Cannot Issue a Final Decision on the Contested Case

The Order to Show Cause states that hearings on the matter will be subject to the requirements of chapter 91, HRS. Intervenors argue that chapter 91, HRS requires finality of a contested case within a reasonable period of time, and request that the Commission "issue a final decision on all remaining issues." Phase II Motion at 14.

Piilani does not contest that chapter 91, HRS requires that an agency overseeing the contested case issue a final decision within a reasonable time. Section 91-12, HRS provides that the agency overseeing the contested case "shall notify the parties to the proceeding by delivering or mailing a certified copy of the decision and order and accompanying findings and conclusions within a reasonable time to each party or to the party's attorney of record." (Emphasis added).

Intervenors argue that the "evidence has been received" by the Commission, and cite Outdoor Circle v. Harold K.L. Castle Trust Estate, 4 Haw. App. 633, 675 P.2d 784 (1983), to support their argument that the Commission must issue a final decision on the contested case. Phase II Motion at 14. In Outdoor Circle, the Commission adopted final versions of the findings of fact at an open meeting, and thereafter issued a final decision on the contested case. 4 Haw. App. at 641-42, 675 P.2d at 791.

Here, and unlike in <u>Outdoor Circle</u>, the Commission did not orally accept and adopt any of the proposed Phase I Findings submitted by the parties at one of its hearings, nor did it issue a ruling thereon. By their own admission, Intervenors acknowledge that "the Commission did not

adopt the [Phase I Findings] at [its February 7, 2013 hearing]." Phase II Motion at 16.

As stated *supra*, pursuant to Section 15-15-74(b), HAR, the Commission is procedurally barred from entering Phase I Findings. In addition, for the reasons stated *supra*, the Commission cannot enter the Phase I Findings. Without the Phase I Findings, the Commission cannot issue a decision and order in compliance with chapter 91, HRS. HRS § 91-12. Accordingly, the Intervenors' request for "finality of this contested case" cannot be granted.

C. Piilani Substantially Commenced Use of the Petition Area

1. <u>Piilani's Investments in Planning, Studies, and Infrastructure Constitute</u> Substantial Commencement of Use of the Land

The Hawai'i Supreme Court has held that the Commission may revert a property to its former land use classification or be changed to a more appropriate classification without following the process set forth in Section 205-4, HRS only in the absence of "substantial commencement of use of the land." Bridge Aina Le'a, 134 Hawai'i at 213, 339 P.3d at 711 (emphasis added) (citing Section 205-4(g), HRS ("The commission may provide by condition that absent substantial commencement of use of the land in accordance with such representations, the commission shall issue and serve upon the party bound by the condition an order to show cause why the property should not revert to its former land use classification or be changed to a more appropriate classification.")). Here, Piilani has substantially commenced use of the land, and the Commission cannot revert the Petition Area except in accordance with Section 205-4, HRS.

Section 205-4(g), HRS does not define "substantial commencement." Citing to <u>Black's</u>

<u>Law Dictionary</u>, the Hawai'i Supreme Court, explained that "substantial" is "considerable in amount or value; large in volume or number." <u>Id.</u> at 213-14, 339 P.3d at 711-12. The Court

emphasized that the legislature "did not require that the use be substantially **completed**, but rather that it be substantially **commenced**." <u>Id.</u> at 214, 339 P.3d at 712.

In analyzing whether the developers in <u>Bridge Aina Le'a</u> substantially commenced **use** of the land, the Court considered the developers' preparation of plans and studies, as well as work on infrastructure. For example, the Court specifically noted that the developers had "continued to actively proceed with **preparation of plans and studies**, including building plans and studies for the EIS" and "continued work on infrastructure." <u>Id.</u> (emphasis added). The Court recognized that "more than \$20,000,000.00 had been expended for plans and construction work on the project" and explained that the developers' investment was "a considerable amount of money and effort, by any reasonable measure." <u>Id.</u> Accordingly, the Court held that the developers substantially commenced use of the land. <u>Id.</u>

Thus, actions taken in the preparation of plans and studies and expenditures to advance a project's infrastructure and to comply with the conditions imposed by the Commission constitute "use" of the land. Intervenors argue that "construction activity," particularly grading work, is required to show "substantial commencement of use." Phase II Motion at 4, 10 (citing Motion to Stay at 4, 5). However, as explained in <u>Bridge Aina Le'a</u>, even if a developer's actions do not involve ground-disturbing activity or vertical construction, pre-development work such as preparation of plans and studies will nonetheless be considered in any determination of "substantial commencement of use of the land."

The legislative history of Section 205-4(g), HRS further supports this conclusion. Specifically, the "substantial commencement" language was added "to empower the [Commission] to address a particular situation, namely, where the landowner does not develop the property in a timely manner." <u>Bridge Aina Le'a</u>, 134 Hawai'i at 211, 339 P.3d at 709. As

the Senate Committee on Energy and Natural Resources specifically noted: "[v]acant land with the appropriate state and county land use designation is often subjected to undesirable private land speculation and uncertain development schedules[,]" and that "[s]uch speculation and untimely development inflates the value of land, increases development costs, and frustrates federal, state, county, and private coordination of planning efforts, adequate funding, public services, and facilities." <u>Id.</u> at 211-12, 339 P.3d at 709-10 (citing S. Stand. Comm. Rep. No. 2116, in 1990 S. Journal, at 915).

As reflected by this history, the purpose of Section 205-4(g), HRS is to discourage landowners from holding land undeveloped for speculative purposes and to encourage timely development. Non-ground disturbing activities, such as preparation of plans and studies as noted in Bridge Aina Le'a, are a necessary part of the development timetable. Therefore, a developer's investment in the land—whether such an investment is in the planning stage or has advanced to vertical construction—is evidence that the developer commenced use of the land. Vertical construction and ground-disturbing activities are not the sole means to demonstrate that land is timely developed. To the extent that the activities and the investment are substantial, the developer has engaged in substantial commencement of use of the land, and has demonstrated that they are not engaging in private land speculation or delay.

2. Piilani Substantially Commenced Use of the Land

Piilani has undertaken considerable effort and incurred great expense to develop the Piilani Parcels in substantial compliance with the representations made to the Commission.

Intervenors improperly characterize the activities that occurred on the Piilani Parcels as only applicable to the Mixed-Use Project and not relevant to the commencement of the Original Plan.⁴

⁴ Intervenors contend that Piilani is judicially estopped from arguing that it has substantially commenced the Original Plan. Phase II Motion at 18-19. The doctrine of judicial

Phase II Motion at 18. In fact, Piilani, as well as prior landowners, have engaged in substantial work to develop the Petition Area in substantial compliance with the Original Plan and have expended significant sums in this effort.

Of significance, the prior landowner obtained final approval of its large lot subdivision application on August 14, 2009 subject to certain bond obligations. Exhibit "B." The subdivision application created four large lots, which are compatible with the original 1994 light industrial subdivision concept plan. Unemori Declaration ¶ 14; Exhibits "C," "D," and "H." To complete the final subdivision approval process, as required by the County of Maui Department of Public Works' Development Services Administration, Piilani deposited \$22,058,826.00 in cash to fund civil infrastructure improvements to support implementation of the Original Plan. Exhibits "B," "K," & "L." The improvements include:

- Sitework Improvements \$1,256,710.00
- East Kaonoulu Street Improvements \$2,299,046.00

estoppel prevents parties from arguing inconsistent or mutually exclusive positions. Roxas v. Marcos, 89 Hawai'i 91, 124, 969 P.2d 1209, 1242 (1998). "Judicial estoppel is a concept to be applied with restraint in egregious cases only and with clear regard for the facts of the particular case." 28 Am. Jur. 2d Estoppel and Waiver § 68 (2018) (emphasis added). While there is no set formula or test, there are certain factors that inform the decision whether to apply the doctrine, including that "a party's later position must be clearly inconsistent with its earlier position." New Hampshire v. Maine, 532 U.S. 742, 750-51 (2001) (citations and quotation marks omitted).

Piilani's current position is consistent with its earlier position. Intervenors' argument appears to be based on certain statements in Piilani's Motion to Stay that "no significant grading or construction has occurred" or would occur during the stay. Phase II Motion at 4, 10 (citing Motion to Stay at 4). As discussed above, grading or construction is not synonymous with "use of the land," and Piilani has shown that it substantially commenced use of the Piilani Parcels through its efforts and expenditure of funds to fulfill bond obligations for improvements and infrastructure (discussed *infra*), as well as to fund plans and studies. Accordingly, judicial estoppel does not bar Piilani from asserting that it has substantially commenced use of the Piilani Parcels in accordance with the Original Plan.

- Piilani Highway Widening Improvements \$1,411,106.00
- Access Road and Swales \$1,771,330.00
- Sewer System/Revisions \$712,592.00
- Storm Drainage System/Revisions \$2,895,052.00
- Onsite Water System \$834,700.00
- 12" Offsite Water/1MG Water Tank \$4,802,784.00
- 36" Water Main/Water/Misc. Revisions \$2,444,940.00
- Electrical \$885,566.00
- Traffic Signal Improvements \$643,000.00
- Landscape/Irrigation \$1,202,000.00
- CRM Walls \$900,000.00

Exhibit "B." Approximately \$1,900,000.00 of the cash bond has been released to purchase materials, which have been located upon the Piilani Parcels since 2012, and remain located on the site as of this date, waiting to be utilized. Declaration of Kenneth F. Gift at ¶ 9. The County of Maui continues to hold the remaining \$20,150,000.00 as a bond for the improvements and infrastructure required by the subdivision approval. Exhibit "L."

In 2012, Piilani contracted with Goodfellow Bros., Inc. for onsite and offsite construction work. At that time, Goodfellow Bros., Inc. purchased materials on behalf of Piilani to proceed with the offsite construction. Exhibit "J." In total, Piilani has spent \$3,418,822.01 on construction materials. Declaration of Kenneth F. Gift at ¶ 10. More than \$880,000.00 has been spent on labor and construction costs to clear the Piilani Parcels, to erect fencing around the perimeter, and to mobilize for the installation of necessary infrastructure and other startup costs. Declaration of Kenneth F. Gift at ¶ 11. Approximately 5 acres of the Piilani Parcels were cleared

by stripping away brush, grass, and top soil. Declaration of Ken Gift at ¶ 9.

Additionally, Piilani has expended more than \$387,000.00 on engineering and surveying work on the Piilani Parcels. Unemori Declaration ¶¶ 17, 20. Although the majority of that work was performed in connection with certain aspects of the Mixed-Use Project, approximately \$85,000 of the work performed is also necessary to the development of the Original Plan, as set forth in the 1994 Conceptual Development Plan, including the subdivision of the MECO substation site, design of the irrigation well pumping station, studies of development lot grading alternatives, research into the existing infrastructure, and the evaluation of new infrastructure needed to support commercial and light industrial land uses. Unemori Declaration ¶¶ 18, 20; Exhibit "H."

In total, Piilani has invested more than \$22,000,000.00 in support of development of the Piilani Parcels and implementation of a proposal in substantial compliance with the Original Plan. Using Bridge Aina Le'a as a benchmark, Piilani's expenditures exceed those made by the developers in Bridge Aina Le'a by at least \$2,000,000.00. The use of the Piilani Parcels is evidenced by Piilani's expenditures to prepare plans and studies, to advance the project's infrastructure, and to comply with the conditions imposed by the Commission. These expenditures and the related commitment of time and other resources are indicators of substantial commencement of use of the land and demonstrate that Piilani has not "sat on the land for speculative purposes."

This is in contrast to the petitioners in Docket No. A06-767 (Waikoloa Mauka, LLC), who made most of their efforts to develop the project prior to the grant of the 2008 Decision and Order approving of the petition to reclassify the land from the State Land Use Agricultural District to State Land Use Rural District, and thereafter performed minimal work on only one of

the 2008 Decision and Order conditions until the issuance of an order to show cause. Piliani has thus demonstrated a commitment to timely development of the Petition Area, which is in accordance with and reflects the underlying purpose and spirit of Section 205-4(g), HRS.

Moreover, the use of the Petition Area in accordance with the representations made to the Commission substantially commenced even before Piilani acquired title. The prior landowners secured additional entitlements and governmental approvals to develop the Petition Area in accordance with the representations made to the Commission:

- The original petitioner, Kaonoulu Ranch, obtained an amendment to the Kihei Makena Community Plan designating the Petition Area as Light Industrial on March 20, 1998.
- Kaonoulu Ranch obtained approval of its Change in Zoning application for Light Industrial by the Maui County Council, which became effective on May 25, 1999.
- Maui Industrial Partners—the landowner prior to Piilani—invested more than \$408,000.00 in the use of the Petition Area under the Original Plan. Unemori Declaration ¶ 7.

Warren S. Unemori Engineering, Inc. ("<u>WSUE</u>") completed the following work for Maui Industrial Partners:

- Preparation and processing of maps and application to subdivide the Petition Area into four large lots and associated roadway lots.
- Design and process construction permits for major infrastructure improvements needed to provide access and utility services to the four large lots, including:
 - o Roadway improvements;
 - o Potable water system improvements, including a new 1.0 MG water storage tank and pipelines;
 - o Relocation of the existing 36-inch diameter County of Maui water transmission main into Kaonoulu Street;
 - o Storm drainage improvements;
 - o Sanitary sewer improvements; and
 - o Electrical system improvements.
- Preparation and processing of preliminary plat and application to subdivide two of the four large lots into 56 light industrial lots.

Unemori Declaration ¶ 7. Additionally, Maui Industrial Partners obtained preliminary subdivision approval on October 16, 2006 for a 56-lot light industrial subdivision that is compatible with the Original Plan's 1994 Kaonoulu Conceptual Plan. Unemori Declaration ¶ 12; Exhibits "F" & "G." This subdivision application is pending the filing of the final plat with the County of Maui. Exhibits "F" & "I."

As the Hawai'i Supreme Court has stated: "a determination of whether a party has substantially commenced use of the land will turn on the circumstances of each case, not on a dollar amount or percentage of work completed." Bridge Aina Le'a, 134 Hawai'i at 214 n.16, 339 P.3d at 712 n.16. In this case, Piilani alone has spent more than \$22,000,000.00 in its effort to developer the Piilani Parcels in substantial compliance with the Original Plan. Given that the \$22,000,000.00 cash bond held by the County of Maui represents a good faith estimate of the cost to complete the needed infrastructure and improvements for the Original Plan, Piilani has demonstrated that it has expended more than 100% of the costs necessary for construction of the Original Plan's infrastructure. Taken collectively, the aforementioned activities and expenses constitute substantial commencement of use of the land.

The D&O Did Not Include a Condition Regarding Substantial Commencement
Piilani has substantially commenced use of the land in accordance with the
representations made to the Commission. However, the Commission has not reserved its right to
revert the property in accordance with Section 205-4(g), HRS as this section specifically states
that the "commission may provide by condition." (Emphasis added). Similarly, the
Commission's rules also require that the Commission impose a condition on the property to
revert the land use classification on the basis that the petitioner has failed to substantially
commence use of the land:

The commission may provide by condition that absent substantial commencement of use of the subject property or substantial progress in developing the land receiving the boundary amendment in accordance with representations and commitments made by the petitioner to the commission, the commission shall issue and serve upon the party bound by the condition an order to show cause why the property should not revert to its former land use district classification or be changed to a more appropriate land use district classification.

Section 15-15-79(b), HAR (emphasis added). Notwithstanding the clear statutory authority to do so, the Commission did not include a condition in the D&O reserving the right to revert the Petition Area for failure of the petitioner to substantially commence use of the land.

The D&O contains a condition that "Petitioner shall develop the Property in **substantial compliance** with the representations made to the Commission" and "Failure to so develop the Property may result in reversion of the Property to its former classification." D&O at 30 (Condition 15) (emphasis added). However, the D&O does not contain any condition that the petitioner's failure to substantially commence use of the Petition Area may result in reversion.

In comparison, the Decision and Order in Docket No. A06-767 (Waikoloa Mauka, LLC) set a time period for the completion of the project and stated that if the petitioner failed to complete the project, the Commission may file an order to show cause and require the petitioner explain why the property should not revert. No similar condition is included in the D&O.

In addition to the plain language of Section 205-4(g), HRS, the legislative history demonstrates that the Commission must impose a condition on a boundary amendment in order to subsequently revert the property absent substantial commencement of use of the land. As the Senate Committee on Energy and Natural Resources stated in its report, the relevant portion of Section 205-4(g) was added "to allow the [] Commission to attach a condition to a boundary amendment decision which would void the boundary amendment when substantial commencement of the approved land use activity does not occur in accordance with

representations made by the petitioner." S. Stand. Comm. Rep. No. 2116, in 1990 S. Journal, at 915 (emphasis added).

In its 1990 testimony in favor of the proposed amendment, the Commission endorsed this requirement: "[T]he proposed amendment will clarify the Commission's authority to **impose a specific condition** to downzone property in the event that the Petitioner does not develop the property in a timely manner." Letter from Land Use Comm'n, to S. Comm. on Energy & Natural Res. (Feb. 7, 1990) (on file with the Hawai'i State Archives) (emphasis added); Letter from Land Use Comm'n, to H. Comm. on Planning, Energy & Envtl. Protection (Mar. 8, 1990) (on file with the Hawai'i State Archives) (emphasis added).

Without the imposition of such a condition, the Commission holds little enforcement power. Bridge Aina Le'a, 134 Hawai'i at 211, 339 P.3d at 709 (explaining the one exception to the general rule that the Commission holds no enforcement power is Section 205-4(g)). Rather, "looking to the express language of Section 205-12, HRS, it is clear and unambiguous that enforcement power resides with the appropriate officer or agency charged with the administration of county zoning laws, namely the counties, and not the [Commission]." Lanai Co. v. Land Use Comm'n, 105 Hawai'i 296, 318, 97 P.3d 372, 394 (2004). The Commission is empowered "to use conditions as needed to (1) 'uphold the intent and spirit' of HRS chapter 205, (2) uphold 'the policies and criteria established pursuant to Section 205–17,' and (3) to 'assure substantial compliance with representations made by petitioner in seeking a boundary change." Id. at 317, 97 P.3d at 393 (citation omitted) (emphasis added). But, again, the Commission must specifically impose the condition to retain its right to revert.

Where, as here, the 1995 Commission did not include a condition regarding substantial commencement, it has no authority to revert the land use classification of the Petition Area.

Accordingly, because the aforesaid substantial commencement condition was omitted from the D&O, the Commission has no authority to revert the land use classification of the Petition Area.

D. <u>Piilani Has Demonstrated Good Cause Why the Petition Area Should Not Revert to</u> Its Former Classification or Be Changed to a More Appropriate Classification

If, assuming *arguendo*, the Commission determines that it was not required to include a condition as to substantial commencement in the D&O and that Piilani has not substantially commenced use of the land, Piilani has nonetheless demonstrated good cause why the Petition Area should not revert to its former classification or be changed to a more appropriate classification for three main reasons.

First, Piilani is in compliance with all conditions of the D&O. Previously, in 2012, the Commission orally determined that Piilani had failed or would fail, to meet three conditions of the D&O: (1) filing of annual reports; (2) completing a frontage road; and (3) substantially complying with representations made to the Commission. Piilani has since become current on the annual report filings, and is committed to working with the State of Hawai'i Department of Transportation to complete a frontage road parallel to Piilani Highway or otherwise incorporate within the design of the Piilani Parcels something substantially compliant with the requirement to complete a frontage road, as reviewed and approved by the State of Hawai'i Department of Transportation and the County of Maui Department if Transportation. Piilani has also informed the Commission that it will develop the Petition Area in substantial compliance with the Original Plan, and therefore the development will be completed in substantial compliance with the representations made to the Commission.

Given that Piilani is in compliance with all of the conditions of the D&O, it is unlike other projects that the Commission has recently reverted. In Docket No. A05-755 (Hale Mua Properties, LLC), the petitioner stipulated that it was not in compliance with a number of

conditions of the Decision and Order and voluntarily submitted to the reversion. In Docket No. A06-767 (Waikoloa Mauka, LLC), the only other contested reversion since <u>Bridge Aina Le'a</u>, the Commission determined that the petitioner violated certain conditions of the Decision and Order and did not substantially commence use of the land. Unlike these projects, Piilani has complied with all conditions of the D&O, has undertaken significant development efforts, and expended substantial sums in accordance with the Original Plan.

Second, Piilani, through Koa, devoted substantial resources—money, time, and effort—towards developing the Piilani Parcels in a manner that meaningfully addresses the input of Intervenors, lineal descendants, and other community members, including developing the Original Plan in a manner that is culturally sensitive and appropriate.

Third, Piilani has demonstrated its financial capacity to undertake development of the Piilani Parcels to completion. Piilani has deposited more than \$22,000,000.00 in cash to secure the development of infrastructure improvements to support the Original Plan and expended additional funds to commission plans and studies. Curbing the lost opportunity costs sustained by Piilani based on these currently unavailable cash funds are a clear motivating factor for Piilani to complete development expeditiously.

The record reflects a consistent effort by Piilani and its predecessors-in-interest to timely develop the Petition Area. Together with Piilani's representations to continue development of the Piilani Parcels in substantial compliance with the Original Plan, Piilani has demonstrated good cause that the Petition Area should not revert to its former classification.

III. CONCLUSION

For the foregoing reasons, Piilani requests that the Commission deny Intervenors' Motion to Conduct Phase II of Contested Case Pending Since 2012, and for Final Decision, filed December 3, 2018.

DATED: Honolulu, Hawai'i, January 10, 2019.

RANDALL F. SAKUMOTO

LISA W. CATALDO

CATHERINE A. TASCHNER

Attorneys for PIILANI PROMENADE SOUTH, LLC and PIILANI PROMENADE NORTH, LLC

BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of) Docket No. A94-706
KAONOULU RANCH to Amend the Agricultural Land Use District Boundary into the Urban Land Use District for Approximately 88 acres at Kaonoulu, Makawao-Wailuku, Maui, Hawai'i; Tax Map Key Nos. (2) 2-2: por. 15 and 3-9-01:16) DECLARATION OF RANDALL F. SAKUMOTO; EXHIBITS "1" – "3")))))
	_ <i>,</i>

DECLARATION OF RANDALL F. SAKUMOTO

I, RANDALL F. SAKUMOTO, hereby declare:

- 1. I am licensed to practice law in all courts of the State of Hawai'i.
- 2. I am an attorney with the law firm of McCorriston Miller Mukai MacKinnon LLP, attorneys for Petitioners Piilani Promenade South, LLC and Piilani Promenade North, (collectively, "Piilani"), as referenced above in this matter.
- 3. This declaration is submitted in support of Petitioners' Memorandum in Opposition to Intervenors' Motion to Conduct Phase II of Contested Case Pending Since 2012, and for Final Decision, Filed December 3, 2018.
- 4. As an attorney at McCorriston Miller Mukai MacKinnon LLP, I have personal knowledge of the filings in the above-referenced case and access to records and files kept in the normal course of the business conducted by McCorriston Miller Mukai MacKinnon LLP.
- 5. Submitted herewith as Exhibit "1" is the Declaration of Darren T. Unemori, Vice President of Warren S. Unemori Engineering, Inc., which contains an electronic signature of Mr.

Unemori. I understand that the original is being mailed to my office and I intend to file the original with the Land Use Commission of the State of Hawai'i (the "Commission") upon our receipt of the document.

- 6 Submitted herewith as Exhibit "2" is the Declaration of Kenneth F. Gift,
 Divisional Engineer of Goodfellow Bros., Inc., which contains an electronic signature of Mr.
 Gift. I understand that the original is being mailed to my office and I intend to file the original with the Commission upon our receipt of the document.
- 7. Submitted herewith as Exhibit "4" is the Declaration of Robert D. Poynor, Vice President of Sarofim Realty Advisors, which contains an electronic signature of Mr. Poynor. I understand that the original is being mailed to my office and I intend to file the original with the Commission upon our receipt of the document.
- I, RANDALL F. SAKUMOTO, declare under penalty of law that the foregoing is true and correct.

Executed this 10th day of January, 2019, at Honolulu, Hawai'i.

PANDALLES MILITAGE

BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of)	Docket No. A94-706
)	
KAONOULU RANCH to Amend the)	CERTIFICATE OF SERVICE
Agricultural Land Use District Boundary)	
into the Urban Land Use District for)	
Approximately 88 acres at Kaonoulu,)	
Makawao-Wailuku, Maui, Hawai'i; Tax)	
Map Key Nos. (2) 2-2: por. 15 and)	
3-9-01:16)	•
)	

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing document will be duly served upon the following persons by electronic mail ("EM"), or by mailing said copy, postage prepaid, first class, in a United States post office ("M") or by hand delivery ("HD") in the manner indicated, addressed as set forth below:

DANIEL ORODENKER, Executive Officer Land Use Commission, State of Hawai'i 235 South Beretania Street Room 406, Leiopapa A Kamehameha Bldg. Honolulu, Hawai'i 96813 <u>Daniel.E.Orodenker@dbedt.hawaii.gov</u> (HD, EM)

DAWN T. APUNA, Esq.
Deputy Attorney General
State of Hawaii
Department of the Attorney General
Hale Auhau, Third Floor
425 Queen Street
Honolulu, Hawai'i 96813

Dawn.T.Apuna@hawaii.gov (EM)

LEO R. ASUNCION, JR., Director Office of Planning, State of Hawai'i 235 South Beretania Street Room 600, Leiopapa A Kamehameha Bldg. Honolulu, Hawai'i 96813 Leo.R.Asuncion@hawaii.gov (EM)

MICHELE CHOUTEAU MCLEAN, Planning Department, County of Maui One Main Plaza 2200 Main Street, Suite 315 Wailuku, Maui, Hawai'i 96793 <u>Michele.McLean@co.maui.hi.us</u> (EM)

PATRICK K. WONG, Esq. MICHAEL HOPPER, ESQ. KRISTIN TARNSTROM, ESQ. Department of Corporation Counsel 200 South High Street, Room 322 Wailuku, Hawai'i 96793 pat.wong@co.maui.hi.us (EM)

TOM PIERCE, Esq. P.O. Box 798 Makawao, Hawai'i 96768

tom@mauilandlaw.com (M, EM)

BENJAMIN M. MATSUBARA, Esq. CURTIS T. TABATA, Esq. 888 Mililani Street, Eighth Floor Honolulu, Hawai'i 96813

<u>ctabata@m-klawyers.com</u> (EM)

DATED: Honolulu, Hawai'i January 10, 2019.

RANDALL FASARUMOTO

LISA W. CATALDO

CATHERINE A. TASCHNER

Attorneys for PIILANI PROMENADE SOUTH, LLC and PIILANI PROMENADE NORTH, LLC

BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of	Docket No. A94-706	
KAONOULU RANCH to Amend the) DECLARATION OF	
Agricultural Land Use District Boundary) DARREN T. UNEMORI; EXHIBITS	
into the Urban Land Use District for) "A"-"I"	
Approximately 88 acres at Kaonoulu,)	
Makawao-Wailuku, Maui, Hawai'i; Tax)	
Map Key Nos. (2) 2-2-02: por. 15 and)	
3-9-01:16)	
)	

DECLARATION OF DARREN T. UNEMORI

I, DARREN T. UNEMORI, hereby declare that:

- 1. I am the Vice President of Warren S. Unemori Engineering, Inc. ("WSUE") and am a civil engineer licensed in the State of Hawai'i since 1993.
 - 2. This declaration is submitted in reference to the above-captioned case.
- 3. Unless otherwise indicated, all statements made herein are based on personal knowledge.
- 4. I am an individual over eighteen (18) years of age and under no legal or mental disability, and I am competent to testify, having personal knowledge of the matters set forth herein.
- 5. I am a graduate of the University of California at Berkeley, from which I received both a Bachelor of Science and a Master of Engineering degree in Civil Engineering.
- 6. WSUE has performed engineering and surveying services to assist in the development of the property formerly identified as Tax Map Key ("TMK") Nos. (2) 2-2-002: por. 015 and 3-9-001:016, and now identified as TMK Nos. (2) 3-9-001:016, 169, 170-174

("Petition Area"), since prior to the grant of the boundary amendment of the Petition Area in 1995.

- 7. WSUE was previously engaged by Maui Industrial Partners, or Pacific Rim Land, Inc. on behalf of Maui Industrial Partners. Under its contracts with Maui Industrial Partners, WSUE invoiced Maui Industrial Partners \$408,462 for work completed—100% of which was applicable to the original 1994 light industrial subdivision concept plan ("1994 Plan"). WSUE performed the following services for Maui Industrial Partners:
 - Preparation and processing of maps and application to subdivide the Petition Area into four developable large lots and associated roadway lots.
 - Design and processing of construction permits for major infrastructure improvements needed to provide access and utility services to the four developable large lots, including:
 - o Roadway improvements;
 - o Potable water system improvements, including a new 1.0 MG water storage tank and pipelines;
 - o Relocation of the existing 36-inch diameter County water transmission main into Kaonoulu Street:
 - o Storm drainage improvements;
 - o Sanitary sewer improvements; and
 - o Electrical system improvements.
 - Preparation and processing of preliminary plat and application to subdivide two of the four large lots into 56 light industrial lots.
- 8. The County of Maui granted preliminary approval to the Kaonoulu Ranch (Large Lot) Subdivision No. 2, Subdivision File No. 2.2795 ("Large Lot Subdivision"), on October 18, 2003. A true and correct copy of the preliminary subdivision approval letter is attached hereto as Exhibit "A."
- 9. The County subsequently granted final approval for the Large Lot Subdivision, as well as for the Kaonoulu Ranch Water Tank Subdivision, Subdivision File No. 2.2995, on

- August 14, 2009, subject to the payment of a subdivision bond. A true and correct copy of the final subdivision approval letter is attached hereto as Exhibit "B."
- 10. The Large Lot Subdivision application created four development large lots as shown on the County-approved final subdivision plat and the County-approved construction plans. A true and correct copy of the County-approved final subdivision plat for the Large Lot Subdivision is attached hereto as Exhibit "C" and a true and correct copy of the County-approved construction plans for the Large Lot Subdivision is attached hereto as Exhibit "D."
- 11. The final subdivision approval letter for the Large Lot Subdivision set forth a deadline to complete the required subdivision improvements. The County has granted Piilani an extension of the deadline to August 25, 2019. A true and correct copy of the County's extension of the deadline to complete the subdivision construction improvements is attached hereto as Exhibit "E."
- 12. On October 16, 2006, the County granted preliminary approval to the Kaonoulu Light Industrial subdivision, Subdivision File No. 3.2175 ("LI Subdivision"). A true and correct copy of the preliminary subdivision approval letter is attached hereto as Exhibit "F."
- 13. The LI Subdivision application subdivided Lots 2B and 2C of the Large Lot Subdivision into 56 lots as shown in the preliminary subdivision plat. A true and correct copy of the preliminary subdivision plat is attached hereto as Exhibit "G."
- 14. The Large Lot Subdivision and LI Subdivision are each compatible with the 1994 Plan. A true and correct copy of the 1994 Plan is attached hereto as Exhibit "H."
- 15. Pursuant to the preliminary subdivision approval letter, the final plat and construction plans for the LI Subdivision were required to be submitted within one year from the date of preliminary approval unless an extension of time was granted. The landowner has

requested annual time extensions and the new deadline for the filing of the final plat is October 17, 2019. A true and correct copy of the County letter granting the current time extension is attached hereto as Exhibit "I."

- 16. Piilani Promenade South, LLC and Piilani Promenade North, LLC (collectively "Piilani") engaged WSUE from 2010 to 2011 to provide civil engineering and land surveying services related to the development of the Large Lot Subdivision ("Large Lot Services"), including assistance in permitting, preparing construction documents, and construction support, as well as for the development of Maui Electric Company's new electrical substation facility, and the design of a permanent pumping stations for the irrigation well located within the Petition Area.
 - 17. To date, WSUE has invoiced Piilani \$302,161 for its Large Lot Services.
- 18. Based on my experience as an engineer and my knowledge of the 1994 Plan and services performed, I estimate that approximately 22%, or \$65,295, of the Large Lot Services constitutes work that is applicable to the 1994 Plan. The applicable work includes the subdivision of the electrical substation facility site, design of the permanent pumping station, and studies of development lot grading alternatives.
- 19. In 2013, Sarofim Realty Advisors, on behalf of Piilani, engaged WSUE to prepare a Preliminary Engineering Report for inclusion in the Environmental Impact Statement for the Piilani Parcels (the "PER Services").
- 20. To date, WSUE has invoiced Sarofim Realty Advisors \$85,470 for the PER Services. Based upon my experience and knowledge of the project, I estimate that approximately 23%, or \$19,334, of the PER Services are applicable to the 1994 Plan. The applicable work includes research into the existing infrastructure and an evaluation of the new

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infrastructure, which research is equally helpful to determine the infrastructure necessary to support the 1994 Plan.

21. In addition to the subdivision approvals discussed above, Piilani has obtained the following permits and approvals:

<u>Permit</u>	Permit Number	
Subdivision Infrastructure	Grading Permit G2012-0030	
Mass Grading of Project Site	Grading Permit G2012-0039	
Kaonoulu Marketplace Water Storage Tank*	Building Permit #B2012/1111	
NPDES Permit for Construction Stormwater Discharge**	File No. R10D273	
Kaonoulu Electrical Substation Subdivision - Preliminary	Subdivision File No. 3.2275	
Approval		

^{*} Maximum number of extensions allowed by County Ordinance reached: no further extension allowed.

I, DARREN T. UNEMORI, declare under penalty of law that the foregoing is true and correct.

Executed this _____ day of January, 2019, at _____ Wailuku___, Hawai'i.

DARRENT LINEMORI

^{**} Administrative extension granted by State Dept. of Health on October 30, 2018, pending reauthorization of State NPDES permit program.

ALAN M, ARAKAWA Mayor

GILBERT S. COLOMA-AGARAN Director

MILTON M, ARAKAWA, A.I.C.P. Deputy Director



COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL MANAGEMENT

DEVELOPMENT SERVICES ADMINISTRATION

250 SOUTH HIGH STREET WAILUKU, MAUI, HAWAII 96793

October 18, 2003

Mr. Warren S, Unemori, President
WARREN S. UNEMORI ENGINEERING, INC.
2145 Wells Street, Suite 403
Wailuku, Hawaii 96793

SUBJECT: KAONOULU RANCH (LARGE LOT) SUBDIVISION NO. 2

TMK: (2) 2-2-002:PORTION OF 015 (2) 3-9-001:PORTION OF 016 SUBDIVISION FILE NO. 2-2795

Dear Mr. Unemori:

Preliminary approval was granted to the subject subdivision on October 18, 2003. Final approval shall be contingent upon compliance with the following conditions:

- Requirements/comments from Maui Electric Company:
 - Electricity is available from nearby existing facilities (overhead and/or underground).
 - Requires line extension (overhead and/or underground) within existing County or State road right-of-way.
 - Requires line extension (overhead and/or underground) within private road or property.
 - Requires easement(s) from owner/subdivider/developer within subdivision for new or existing MECO facilities.

Comments: Easements are required. To process easements, applicant must submit a service request to Maui Electric Company. Please contact our Engineering Clerk at 871-2390.

If you have any questions, please contact Mr. Alan Miyazaki at 871-2390.

RALPH M. NAGAMINE, L.S., P.E. Development Services Administration

TRACY TAKAMINE, P.E. Wastewater Reclamation Division

LLOYD P.C.W. I.EE, P.E. Engineering Division

BRIAN HASHIRO, P.E. Highways Division

JOHN D. HARDER Solid Waste Division

SUBJECT: KAONOULU RANCH (LARGE LOT) SUBDIVISION NO. 2 SUBDIVISION FILE NO. 2.2795

October 18, 2003 Page 2 of 7

- 2. Comply with requirements/comments from the State of Hawaii, Department of Land and Natural Resources, Historic Preservation Division (SHPD). We are currently waiting for preliminary subdivision review comments from SHPD. For further information, please contact Ms. Cathleen Dagher at (808) 692-8023.
 - Comply with requirements/comments from the State of Hawaii, Department of Transportation, Highways Division (SDOT).
 - Submit drainage report. Appears to be diverting runoff to Kulanihakoi Gulch.
 - Submit construction plans for review and approval.

If you have any questions, please contact Paul Chung at 873-3535.

 Requirements/comments from the Department of Public Works and Environmental Management, Engineering Division:

Submit drainage report,

If you have any questions, please contact Lloyd Lee at 270-7745.

- Requirements/comments from the Department of Public Works and Environmental Management, Wastewater Reclamation Division:
 - a. Although wastewater system capacity is currently available as of September 11, 2003, the developer should be informed that wastewater system capacity cannot be ensured until the issuance of the building permit.
 - Provide discussion and calculations (sewer impact study) to substantiate that the existing wastewater system is adequate to serve this project.
 - Wastewater contribution calculations are required before building permit is issued.
 - d. Developer shall pay assessment fees for treatment plant expansion costs in accordance with ordinance setting forth such fees.
 - Developer is required to fund any necessary off-site improvements to collection system and wastewater pump stations.

SUBJECT: KAONOULU RANCH (LARGE LOT) SUBDIVISION NO. 2

SUBDIVISION FILE NO. 2.2795

October 18, 2003 Page 3 of 7

> Plans should show the installation of a single service lateral and advanced riser for each lot.

g. Indicate on the plans the ownership of each easement (in favor of which party). NOTE: County will not accept sewer easements that traverse private property.

If you have any questions, please contact Scott Rollins at 270-7417.

- Requirements/comments from the Department of Water Supply:
 - a. Provide fire protection in accordance with the standards.
 - Provide water service to each lot in accordance with the standards.
 - The subdivider shall deliver to the department perpetual easements required for the water system improvements.
 - d. The subdivider shall convey to the department fee simple title to all sites on which tanks or pumps are constructed.
 - Water system development fees will be charged upon application for water meters.
 - Provide water source and storage.
 - g. The applicant should be advised that the department's processing of this subdivision does not in any way imply that water service for the subdivision will be available. Approval of water service to each lot will be subject to rules and regulations of the department at the time water service is applied for.

If you have any questions, please contact the Department of Water Supply at 270-7835.

7. Comply with requirements/comments from the Department of Planning. We are currently waiting for preliminary subdivision review comments from the Department of Planning. For further information, please contact Mr. Francis Cerizo at 270-7253.

SUBJECT: KAONOULU RANCH (LARGE LOT) SUBDIVISION NO. 2

SUBDIVISION FILE NO. 2,2795

October 18, 2003

Page 4 of 7

Requirements/comments from the Department of Fire and Public Safety:

At this time, the Fire Prevention Bureau would request that a water supply for fire protection shall be provided prior to the location and construction of buildings. Service roads to proposed properties shall have a clear width of 20 feet, all turns and required turnarounds shall have an outside turning radius of 40.5 feet.

If you have any questions, please contact Lt. Scott English at 270-7122.

- In accordance with Section 18.12.030(E)(13.a.) of the Maui County Code (MCC), submit a letter from all governmental agencies with an easement, lease or license affecting the land subdivided consenting to the preparation and recording of the final plat.
- 10. In accordance with Section 18.12.040(C) MCC, submit a tax clearance certificate (issued by Department of Finance, Real Property Tax Division) to show written proof that all taxes and assessments on the tract are paid to date. An "Application for Tax Clearance" form is enclosed for your use. NOTE: The tax clearance certificate shall be valid at the time of final subdivision approval.
- In accordance with Section 18.20.030 (Pavement of streets), improve the proposed subdivision road and access easement to the provisions of the subdivision ordinance for roadways within the urban district.
- 12. Provide additional information on which lots Access and Utility Easement 3 is intended to serve. The easement shall be improved to the provisions of the subdivision ordinance based on the number of lots being served.
- Design and construct the drainage facilities to the requirements of the Department of Public Works and Environmental Management. A detailed final drainage report and site specific erosion control plan shall be submitted with the construction plans for review and approval. The drainage report shall include, but not be limited to, hydrologic and hydraulic calculations, and the schemes for disposal of runoff waters. The site specific erosion control plan shall show the location and details of structural and non-structural best management measures. The drainage and erosion control plans shall provide verification that the grading and all runoff water generated by the project will not have an adverse effect on the adjacent and downstream properties.

SUBJECT: KAONOULU RANCH (LARGE LOT) SUBDIVISION NO. 2

SUBDIVISION FILE NO. 2,2795

October 18, 2003

Page 5 of 7

- 14. Submit a "sight distance" report to determine required sight distance and available sight distance at existing and proposed street intersections. If you have any questions, please contact the Engineering Division at 270-7745.
- 15. Provide verification that adequate driveway sight distance has been provided for each lot. Access shall be restricted along the portion of any lot where adequate sight distance is not available. If you have any questions, please contact the Engineering Division at 270-7745.
- Obtain street name approval from the Commission On Naming Streets, Parks and Facilities, and show street names on the construction plans and final plat.
- In accordance with Section 12.24A.070(D) MCC, submit street tree planting and irrigation plans and a completed "Maui County Arborist Committee Plans Review Form" for review and approval.
- The Owner's Acknowledgment/Authorization to Subdivide only authorizes your office to obtain preliminary approval. Provide authorization to obtain final subdivision approval.
- Add the following note on the final plat and construction plan:

Pursuant to Maui County Code Section 3.44.015(C), the County of Maui is not responsible for any park, roadway, easement (including but not limited to drainage, sewer, access, reclaimed water, or avigation easement), or any other interest in real property shown on this map or shown on these plans, unless the Maui County Council has accepted its dedication by a resolution approved by a majority of Council's members at a regular or special meeting of the Maui County Council.

20. Submit ten (10) sets of the construction plans and three (3) sets of a drainage and soil erosion control report or drainage verification, whichever is applicable, for review and approval by the applicable agencies. In accordance with Section 18.24.010(D) MCC, a construction plan review fee (\$50/lot) shall be paid upon submission of the construction plans.

When the construction plans are approved, post construction requirements will be noted on the construction plan approval letter. The post construction requirements will need to be completed prior to final subdivision approval.

SUBJECT: KAONOULU RANCH (LARGE LOT) SUBDIVISION NO. 2 SUBDIVISION FILE NO. 2.2795

October 18, 2003 Page 6 of 7

- 21. Submit fifteen (15) prints of the final plat in accordance with Chapter 18.12 (Final Plat) MCC. The final plat shall include all revisions addressing the comments noted on the enclosed preliminary plat. The final plats shall be folded into 8 ½" x 11" sized sheets.
- 22. Submit a digital copy (either on 3½" floppy disk or compact disc) of the final plat. The digital map shall either be in Arcview GIS file format or be an AutoCAD drawing with NAD83 State Plane Meters, Zone 2 coordinates, and shall include only the lot line drawing.

Within one (1) year from the date of preliminary approval of the subdivision, the final plat must be filed and the construction plans must be submitted, unless an extension of time is granted.

Be forewarned that requests for time extensions must be made in writing and received by our department in accordance with the following requirements. A time extension request for the filing of the final plat must be made at least fifteen days prior to the filing deadline. A time extension request for the submittal of the construction plans must be made prior to the submittal deadline. Therefore, a time extension request for the filing of the final plat must be made no later than October 2, 2004, and a time extension request for the submittal of the construction plans must be made no later than October 18, 2004. If no construction plans will be required for the subdivision, our department must be notified in writing prior to the submittal deadline. A "good cause" reason for any time extension shall be stated in the request. Time extension requests which are not in compliance with all of these requirements, will result in the subdivision being deemed null and void.

If you have any questions regarding this letter, please call Ms. Lesli Otani of our Development Services Administration at 270-7252.

Very truly yours.

GILBERT S. COLOMA-AGARAN

Director of Public Works

And Environmental Management

SUBJECT: KAONOULU RANCH (LARGE LOT) SUBDIVISION NO. 2

SUBDIVISION FILE NO. 2.2795

October 18, 2003

Page 7 of 7

Enclosures: Preliminary Plat

Application For Tax Clearance

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c: Dept. of Finance, Real Property Tax Div. (unmarked preliminary plat only)

Dept. of Finance, Tax Map Div. (unmarked preliminary plat only)

Engineering Division w/preliminary plat

Wastewater Reclamation Division

Dept. of Water Supply, SD 03-090

Dept. of Fire and Public Safety

Dept. of Planning

Dept. of Parks and Recreation

DOT, Highways Division

State Dept. of Health

Maui Electric Company

MILTON M. ARAKAWA, A.I.C.P. Director

MICHAEL M. MIYAMOTO Deputy Director



RALPH M. NAGAMINE, L.S., P.E. Development Services Administration

CARY YAMASHITA, P.E. Engineering Division

BRIAN HASHIRO, P.E. Highways Division

COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS

DEVELOPMENT SERVICES ADMINISTRATION

250 SOUTH HIGH STREET WAILUKU, MAUI, HAWAII 96793

August 14, 2009

Mr. Darren Okimoto, P.E. WARREN S. UNEMORI ENGINEERING, INC. 2145 Wells Street, Suite 403 Wailuku, Hawaii 96793

SUBJECT: KAONOULU RANCH (LARGE-LOT) SUBDIVISION NO. 2

TMK: (2) 3-9-001:016

SUBDIVISION FILE NO. 2.2795

KAONOULU RANCH-WATER TANK SUBDIVISION

TMK: (2) 2-2-002:015

SUBDIVISION FILE NO. 2.2995

Dear Mr. Okimoto:

Final approval for the subject subdivisions have been granted on August 14, 2009, based upon an "Agreement For Subdivision Approval" and "Subdivision Bond" in the following amounts totaling \$22,058,826.00:

Bond No. SU1102685 (Sitework Improvements)	\$1,256,710.00
Bond No. SU1102686 (East Kaonoulu Street Improvements)	2,299,046.00
Bond No. SU1102687 (Piilani Highway Widening Improvements)	1,411,106.00
Bond No. SU1102688 (Access Road and Swales)	1,771,330.00
Bond No. SU1102689 (Sewer System/Revisions)	712,592.00
Bond No. SU1102690 (Storm Drainage System/Revisions)	2,895,052.00
Bond No. SU1102691 (Onsite Water System)	834,700.00
Bond No. SU1102692 (12" Offsite Water/1MG Water Tank)	4,802,784.00
Bond No. SU1102693 (36" Water Main/Water/Misc. Revisions)	2,444,940.00
Bond No. SU1102694 (Electrical)	885,566.00
Bond No. SU1102695 (Traffic Signal Improvements)	643,000.00
Bond No. SU1102696 (Landscape/Irrigation)	1,202,000.00
Bond No. SU1102697 (CRM Walls)	\$ 900,000.00

The approved final plats and copies of the "Agreement For Subdivision Approval" and "Subdivision Bond" are enclosed for your records.

Mr. Darren Okimoto, P.E.

SUBJECT: KAONOULU RANCH (LARGE-LOT) SUBDIVISION NO. 2

SUBDIVISION FILE NO. 2.2795

KAONOULU RANCH-WATER TANK SUBDIVISION

SUBDIVISION FILE NO. 2.2995

August 14, 2009 Page 2 of 2

The "Agreement For Subdivision Approval" and "Subdivision Bond" stipulates that the Subdivider shall complete the required subdivision improvements on or before July 17, 2010.

If you have any questions regarding this letter, please contact Lesli Otani of our Development Services Administration at 270-7252.

Sincerely,

C:

MILTON M. ARAKAWA, A.I.C.P.

Director of Public Works

Enclosures: Final Plats

Agreement For Subdivision Approval

Subdivision Bond (Bond Nos. SU1102685 thru SU1102697)

eri S:\DSA\Subd\Reg2\2#2795_2995-1.fin

Dept. of Finance, Accounts Division w/final plats, agreement, & bonds

Dept. of Finance, Real Property Tax Division w/final plats

Dept. of Finance, Tax Map Division w/final plats

Building Permit Section w/final plats Engineering Division w/final plats

Dept. of Environmental Management, WWRD w/final plats

Dept. of Planning w/final plats

Dept. of Water Supply, SD 03-90 & 06-106 w/final plats

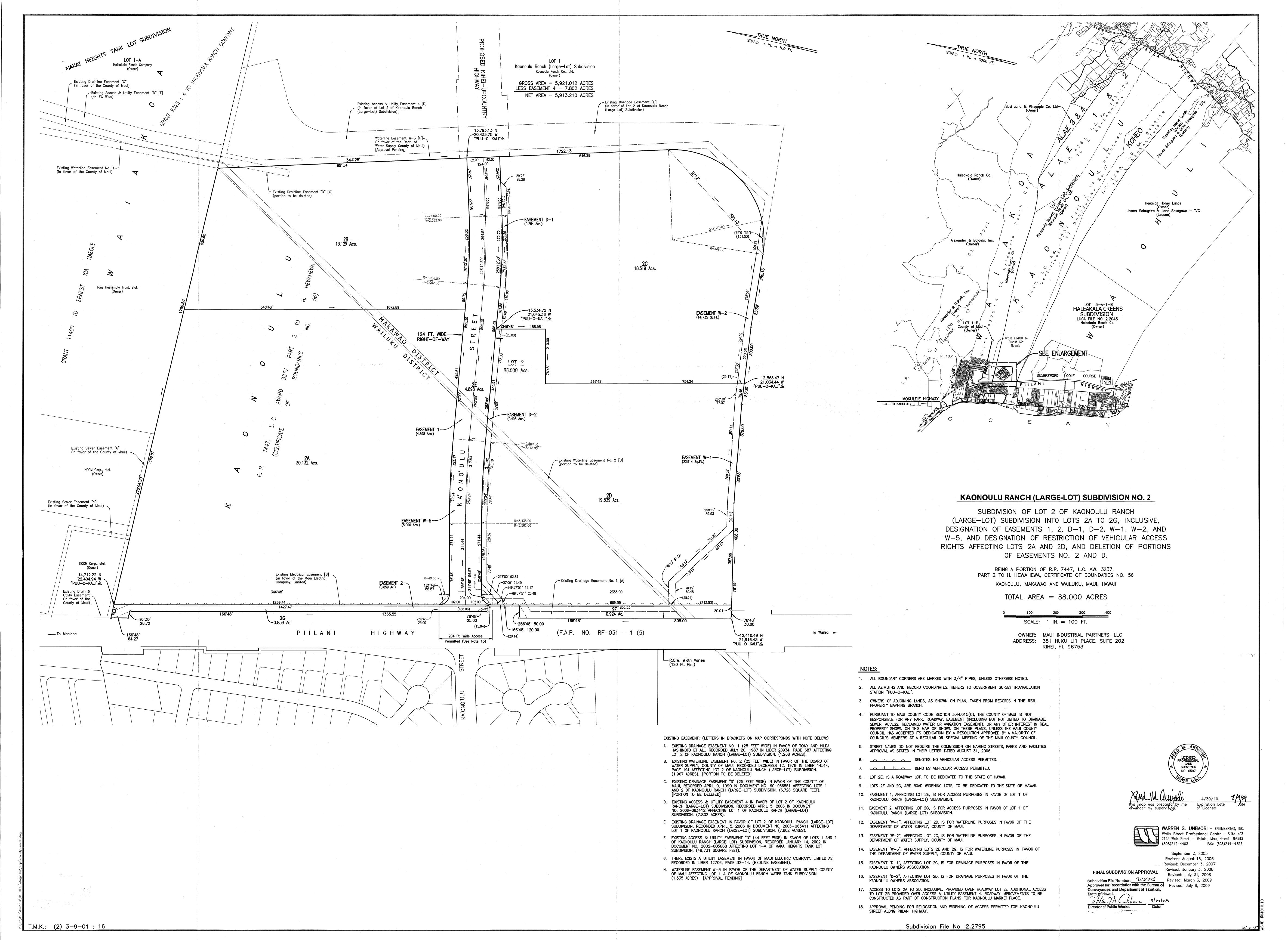
Police Dept. w/final plats

Dept. of Parks and Recreation w/final plats

State Department of Health w/final plats

DOT, Highways Division w/final plats

Maui Electric Co. w/final plats



Construction Plans for ...

KAONOULU MARKET PLACE

TAX MAP KEY: (2) 3-9-01: 16

Waiohuli-Keokea, Kula, (Kihei), Maui, Hawaii Subdivision File No. 2.2795 DWS SD. No. 03-90

KIHEI/UPCOUNTRY HIGHWAY

PROJECT

R&T

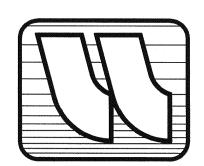
GOLF CLUB

Prepared for . . .

MAUI INDUSTRIAL PARTNERS, LLC.

Kihei, Maui, Hawaii

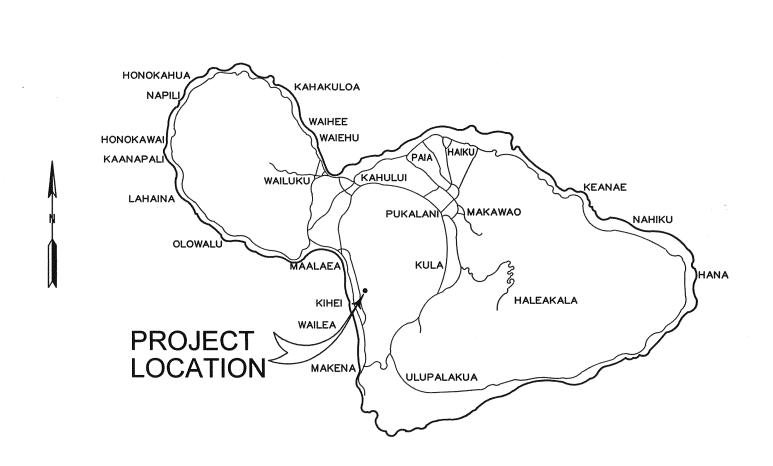
By . . . Prepared



WARREN S. UN EMORI ENGINEERING, INC. Civil & Structural Engineers - Land Surveyor Wells Street Professional Center - Suite 403 2145 Wells Street - Wailuku, Maui, Hawaii 96793

INDEX OF DRAWINGS:

DETAILS OF FITTINGS AT TIE-IN TO EXISTING 36' DETAILS OF AMERON 36" CCP X FLANGE ADAPTER 12.10 - 12.12 STORAGE TANK DETAILS 12.21 - 12.22 ROOF GRID STEEL DETAILS 12.23 - 12.24 STORAGE TANK COLUMN AND WALL DETAILS PLAN & PROFILE - DITCH ALONG ACCESS ROAD TO DIVERSION DITCH EROSION CONTROL PLAN CROSS SECTION - TEMPORARY ACCESS ROAD FROM OHUKAI ROAD 13.02 EROSION CONTROL NOTES & DETAILS 7.10 - 7.11PLAN & PROFILE - DIVERSION DITCH TRAFFIC CONTROL PLAN WITHIN COUNTY RIGHT-OF-WAY 7.12 CROSS SECTION - DIVERSION DITCH 14.10 - 14.14 TRAFFIC CONTROL PLAN - PIILANI HIGHWAY 7.13 TYPICAL SECTION - DIVERSION DITCH TRAFFIC ROUTING PLAN - PIILANI HIGHWAY DETOUR DIVERSION DITCH TRANSITION WALL SECTIONS 7.14 15.01 - 15.02 CONSTRUCTION NOTES 8.01 STRIPING PLAN - KAONOULU STREET EXTENSION TS-1 - TS-7 TRAFFIC SIGNAL PLANS STRIPING PLAN - PIILANI HIGHWAY E-1 - E-6 ELECTRICAL PLANS STRIPING DETAILS EM-1 - EM-2 INSTRUMENT HOUSE ENCLOSURE AND DETAILS 9.01A - 9.04 INTERSECTION DETAILS LANDSCAPE IRRIGATION PLAN SHEET LAYOUT LI-1 - LI-12 LANDSCAPE IRRIGATION PLANS LP-SITE LANDSCAPE PLANTING PLAN SHEET LAYOUT 10.01 - 10.10DRAINAGE DETAILS 11.01 SEWER DETAILS LP-1 - LP-15 LANDSCAPE PLANTING PLANS



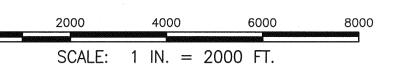
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PROJECT VICINITY MAP



APPROVED BY:

STATE OF HAWAII 2/85/0A 1 Church

CHIEF, HIGHWAYS DIVISION DEPARTMENT OF TRANSPORTATION STATE OF HAWAII (Approval Granted for Work Within State Right-of-Way Only)
Letter of Approval No. HWT-M296 Date 275 09
1.D. No. ME 05-40

Franklud State Dol Conditions ontlined on above referenced letter

RE- APPROVED BY:

7/1/10 DIRECTOR DEPARTMENT OF PUBLIC WORKS COUNTY OF MAUI (Approval for work in County Right—of—Way Only) for Herbut Chane 6/29/2012

DIRECTOR DEPARTMENT OF WATER SUPPLY COUNTY OF MAUI (Approval is limited to the Water System Improvements which will be dedicated to the Department of Water Supply)

CHIEF, HIGHWAYS DIVISION DEPARTMENT OF TRANSPORTATION, STATE OF HAWAII (Approval Granted for Work Within State Right-of-Way Only) Letter of Approval No. HWT-M 2.096-09 Date 2/25/09 I.D. No. ME 05-40. Approval subject to State DOT conditions outlined in above referenced letter with the added condition that a Permit to Perform Work cannot be issued until Chapter 343 requirements are satisfied.

RE- APPROVED BY:

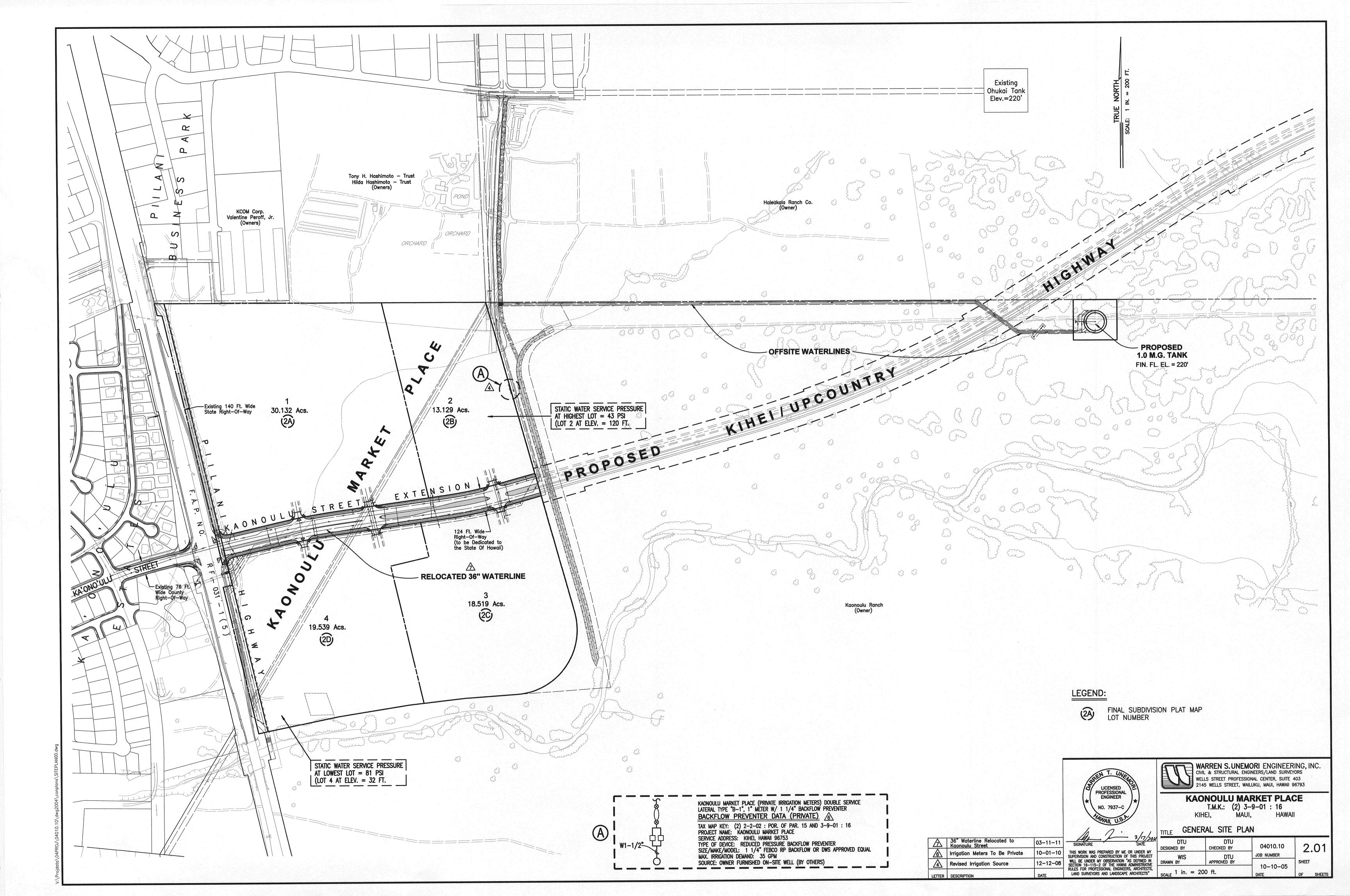
4-27-11 DIRECTOR DEPARTMENT OF PUBLIC WORKS COUNTY OF MAUL (Approval for work in County Right-of-Way Only)

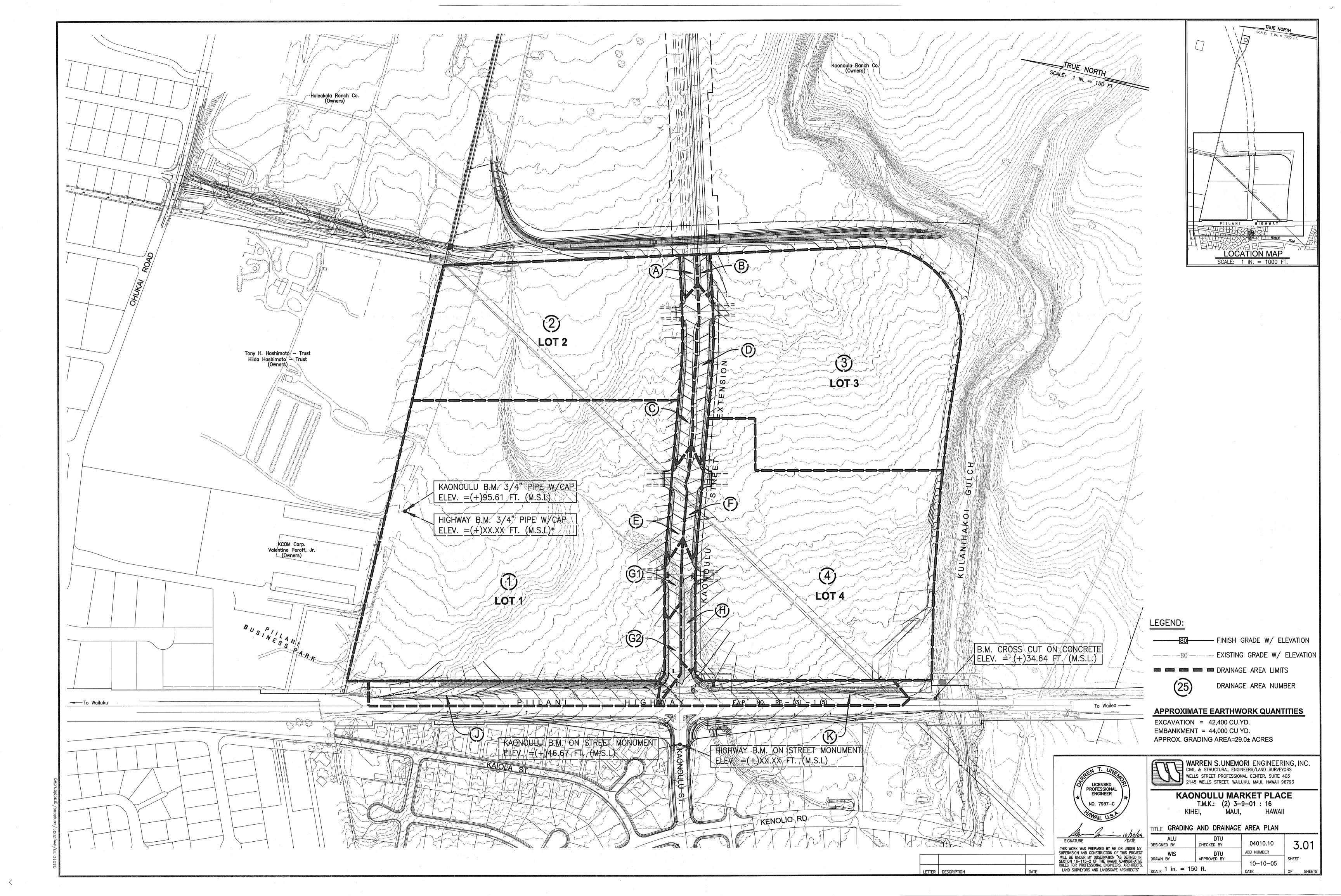
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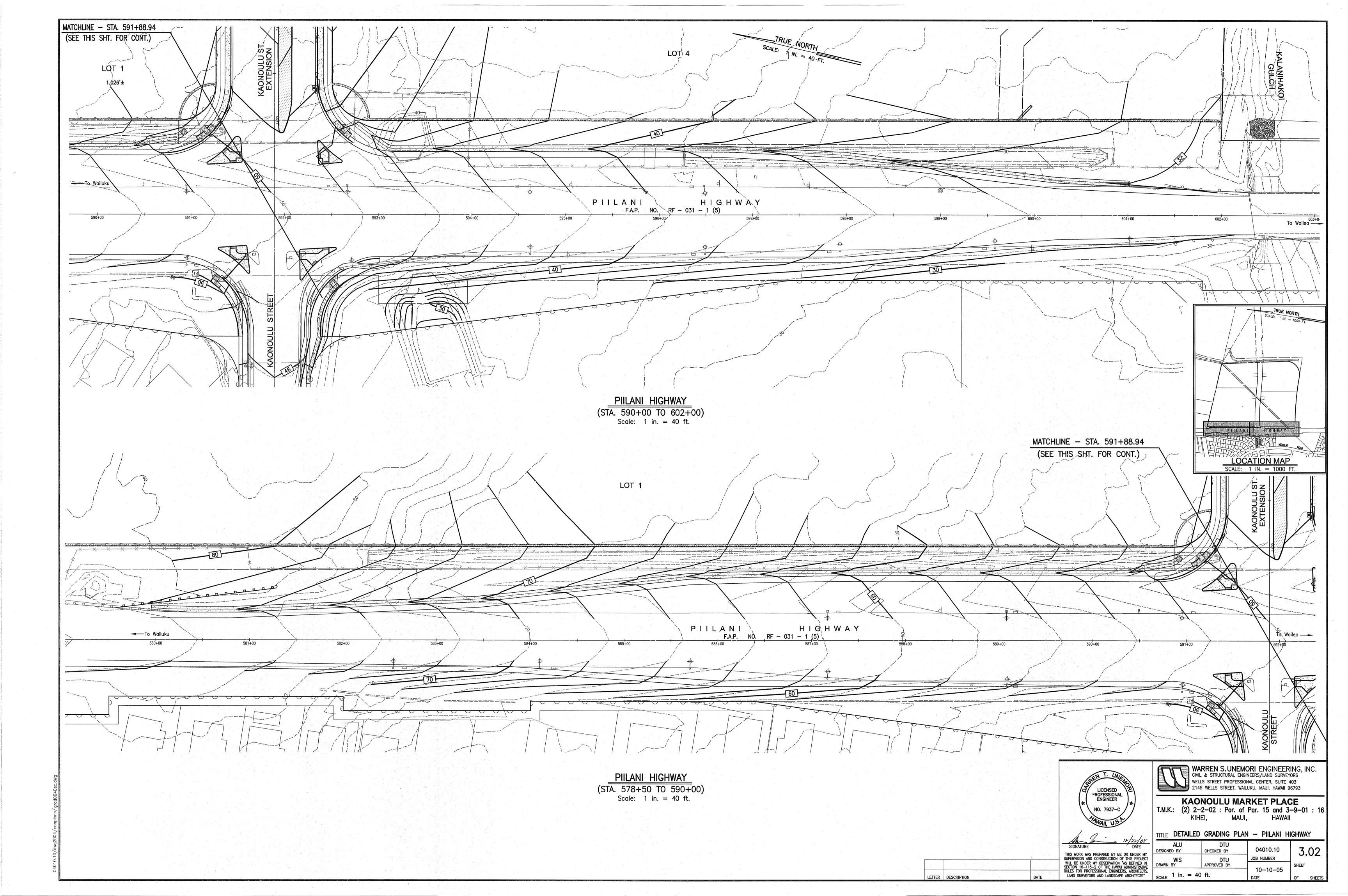
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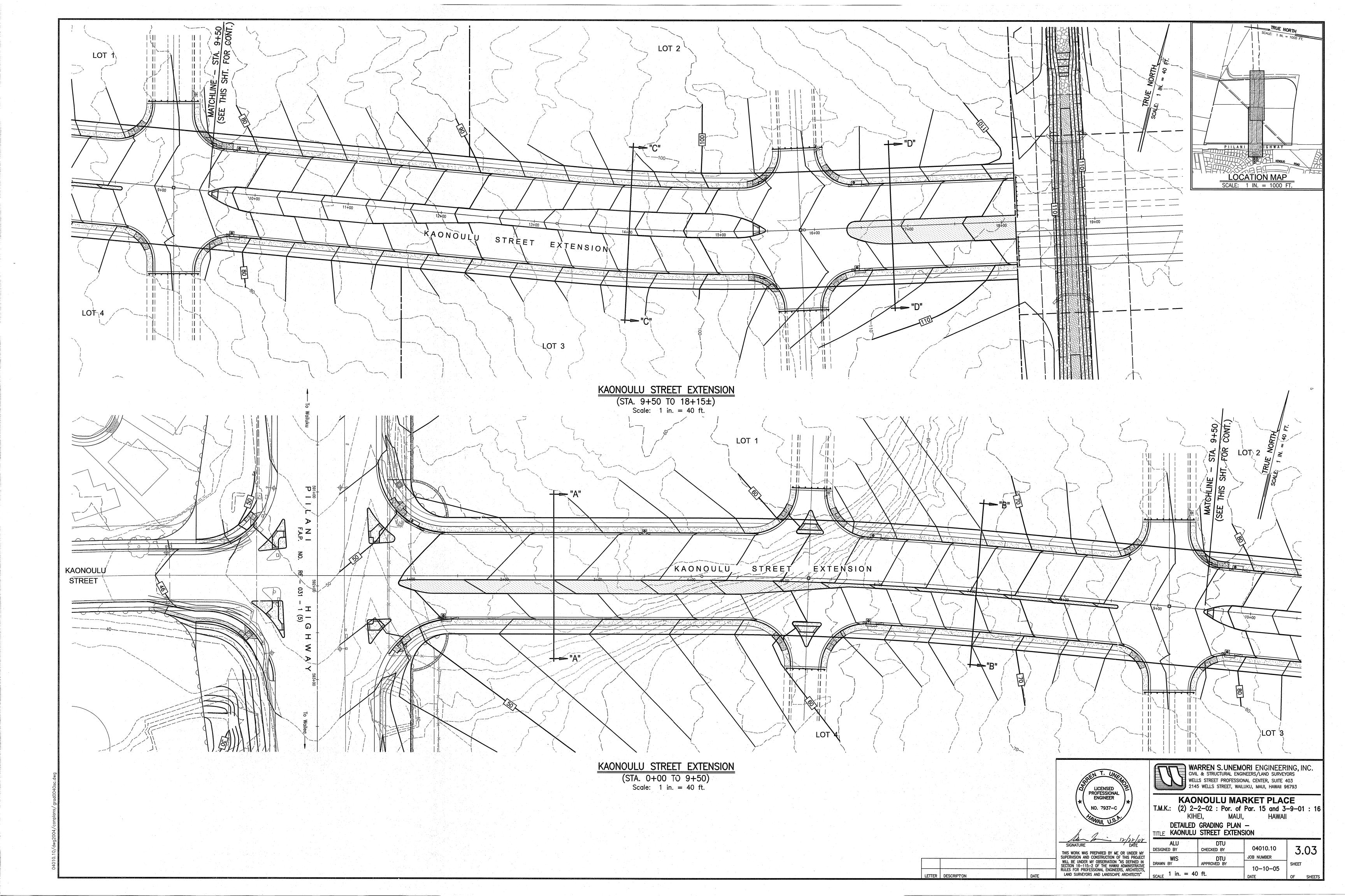
DIRECTOR DEPARTMENT OF PUBLIC WORKS

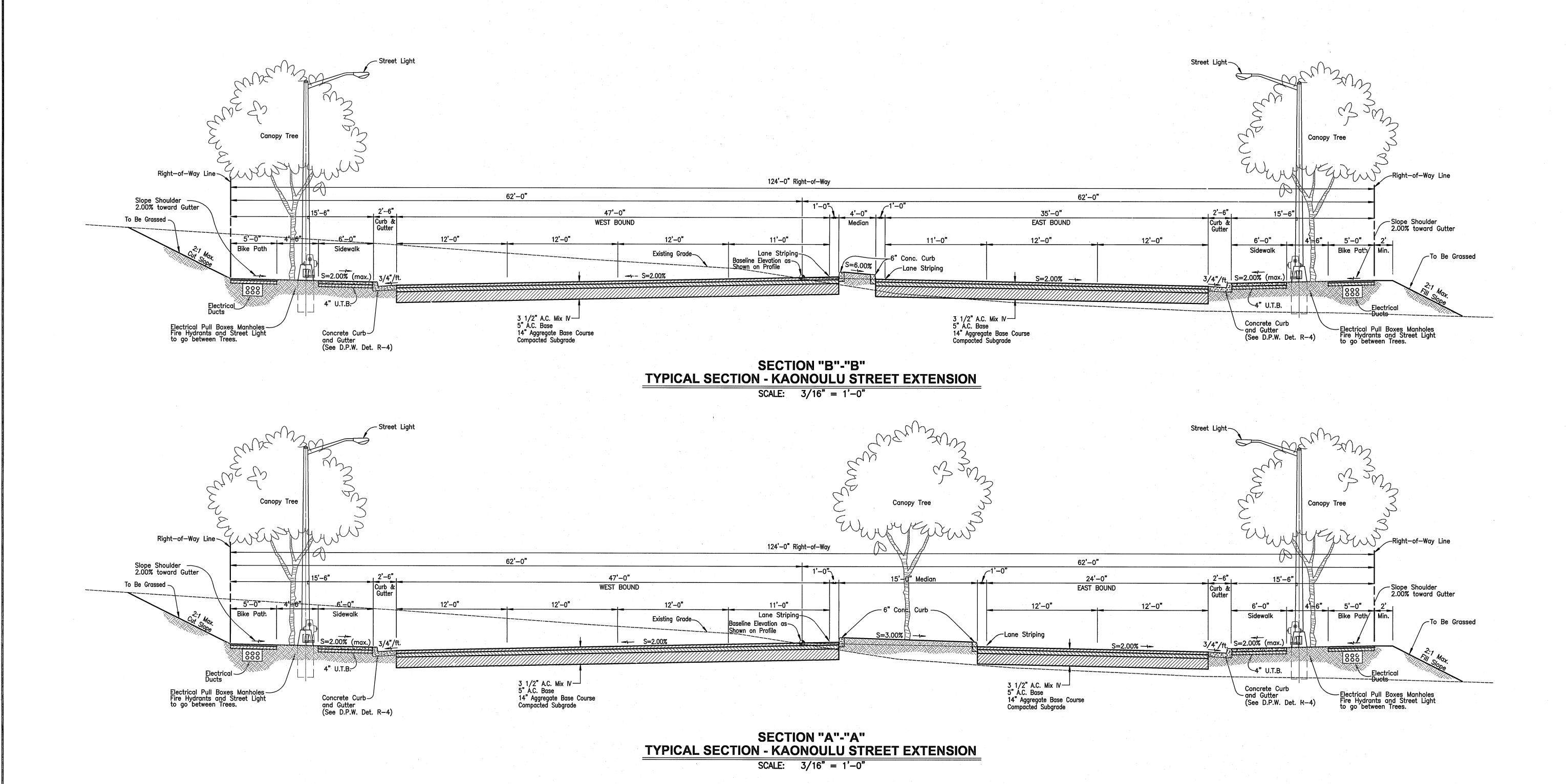
(Approval for work in County Right-of-Way Only)











LICENSED PROFESSIONAL ENGINEER

NO. 1569—C

KAON

T.M.K.: (2) 2—2

KIHEI

TYPICAL SE

TITLE KAONOULU

ALU

DESIGNED BY

C

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AND

C

SIGNATURE

THIS WORK WAS PREPARED BY ME OR UNDER MY
SUPERVISION AND CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION "AS DEFINED IN
SECTION 16—115—2 OF THE HAWAII ADMINISTRATIVE
RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS,
LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

SCALE

AS Shown

WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE
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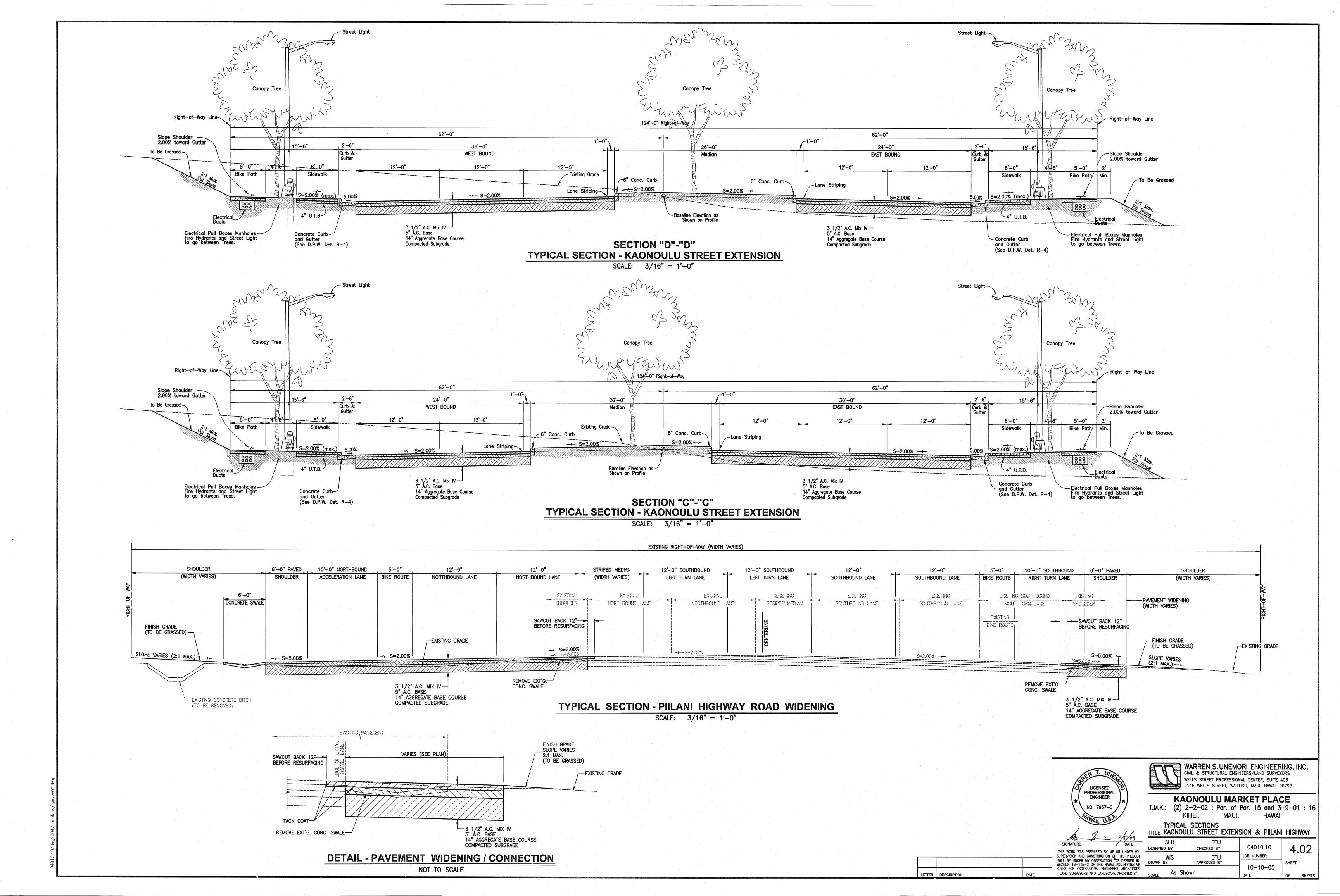
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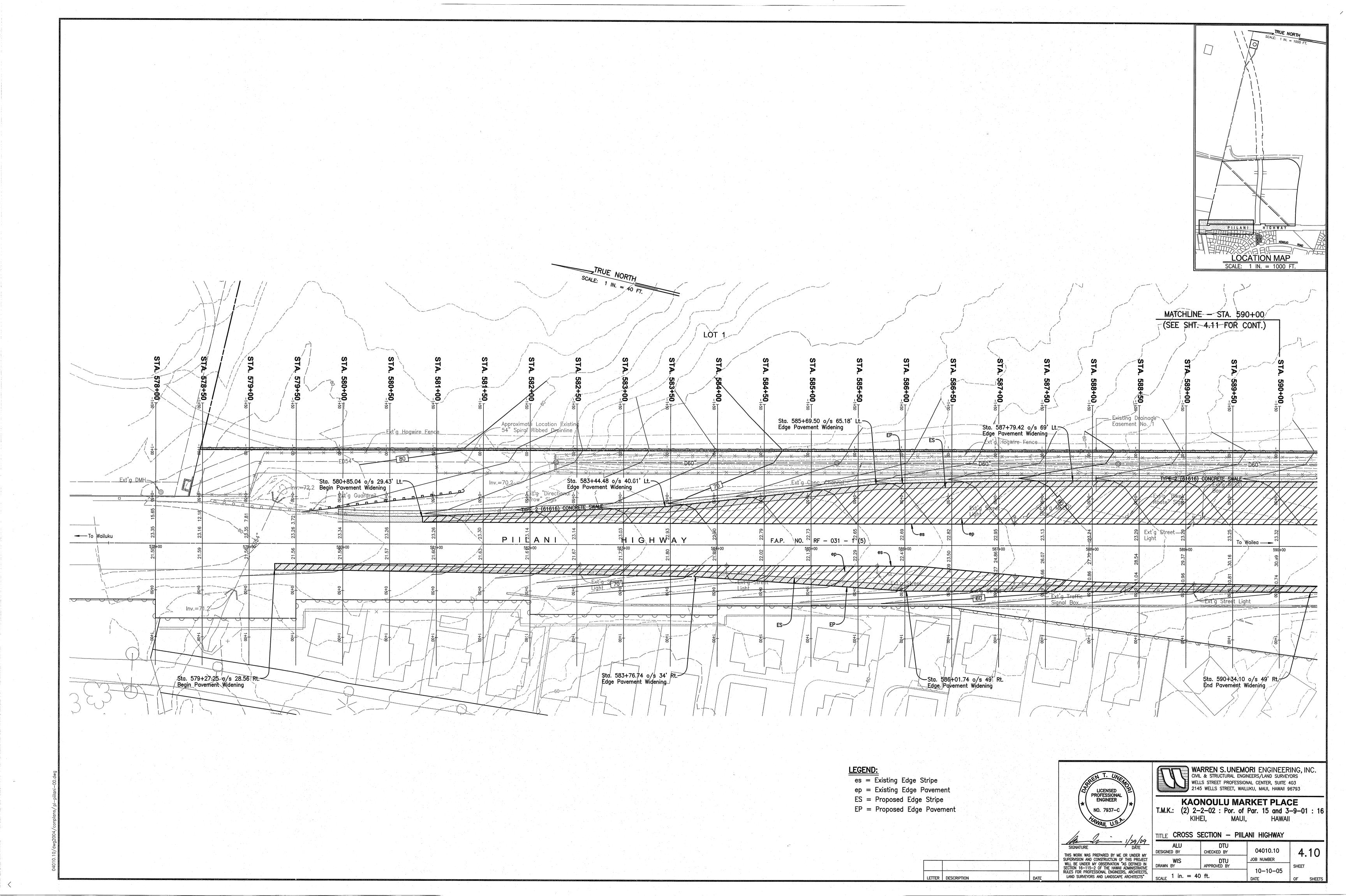
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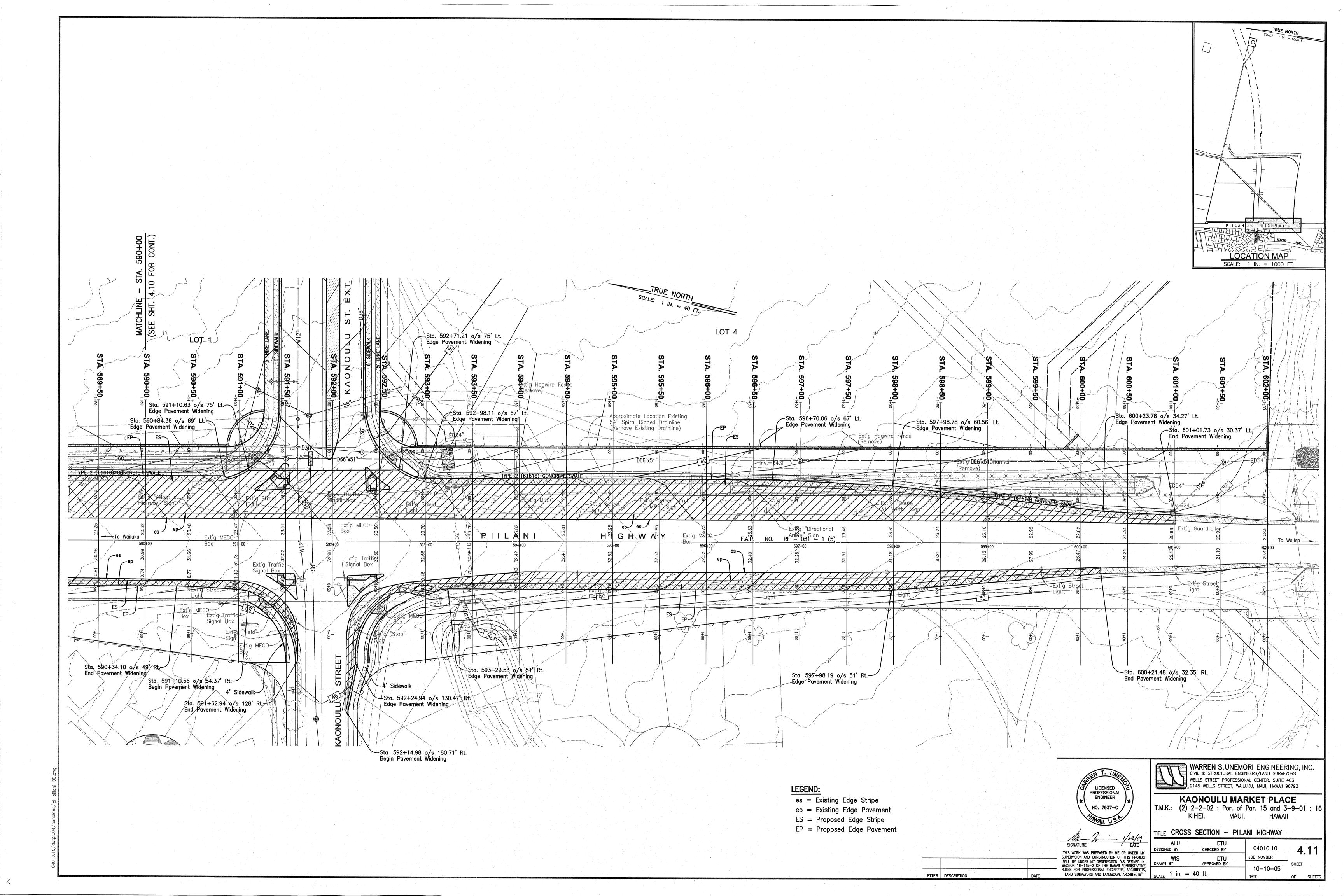
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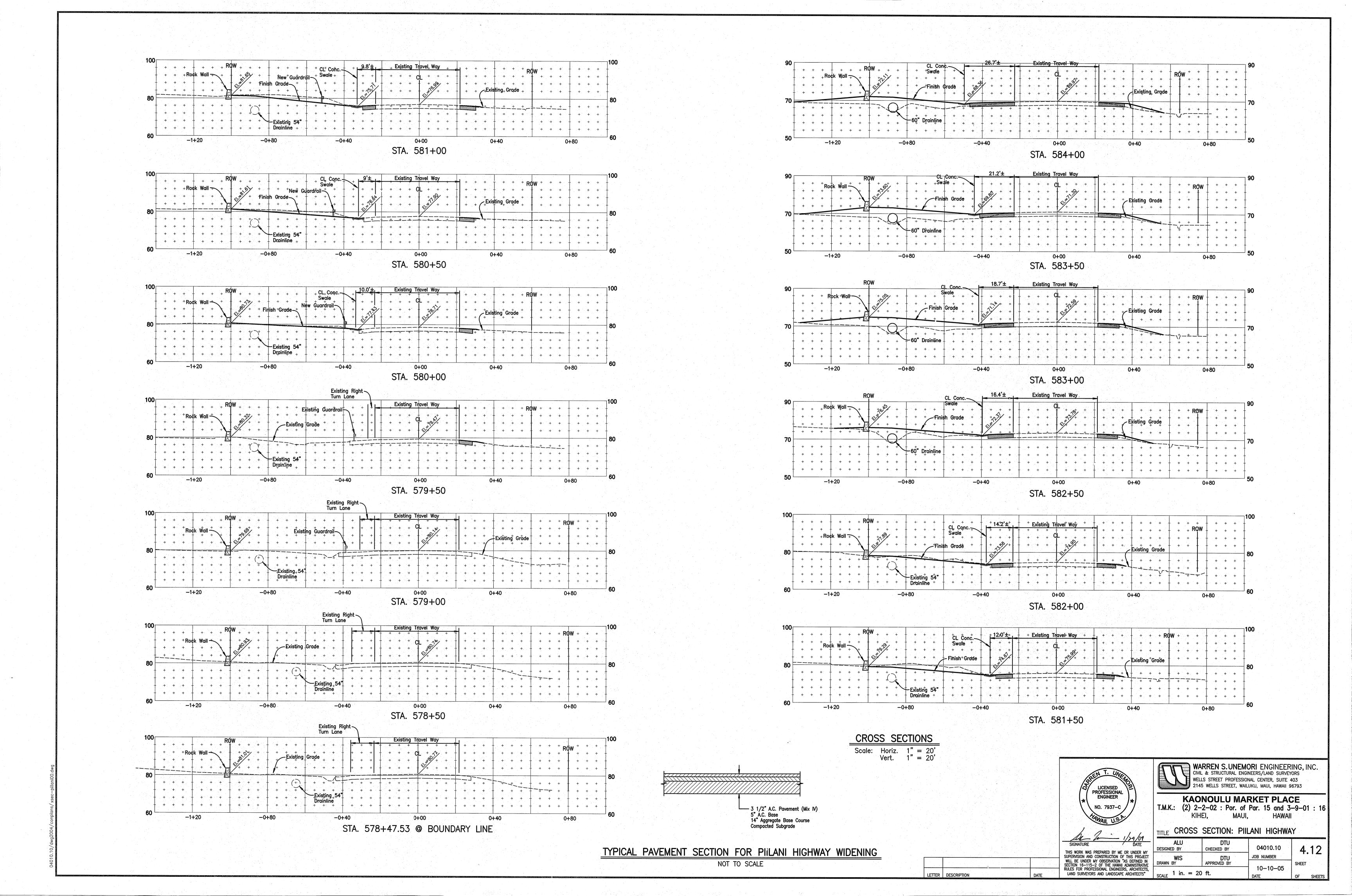
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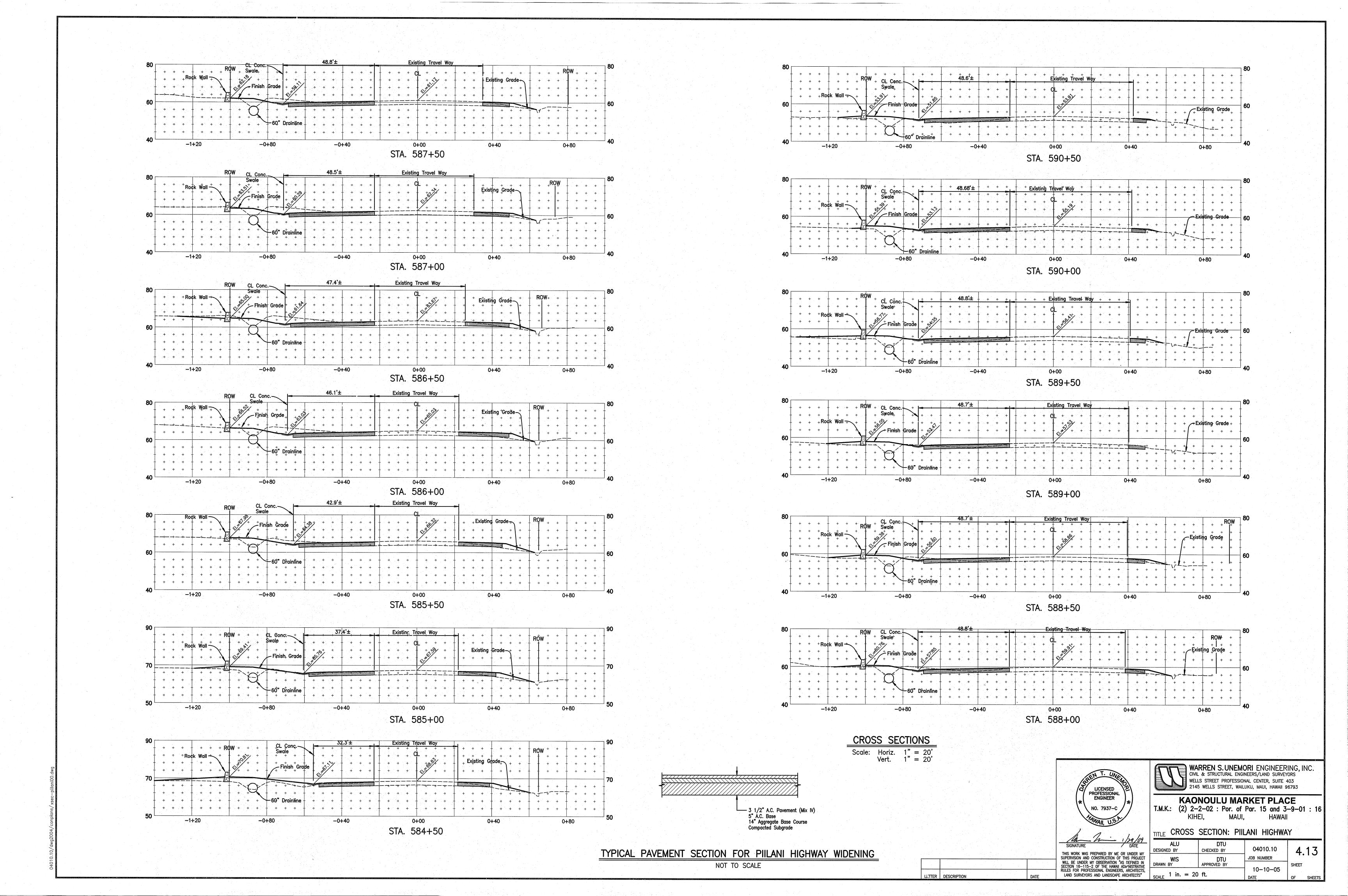
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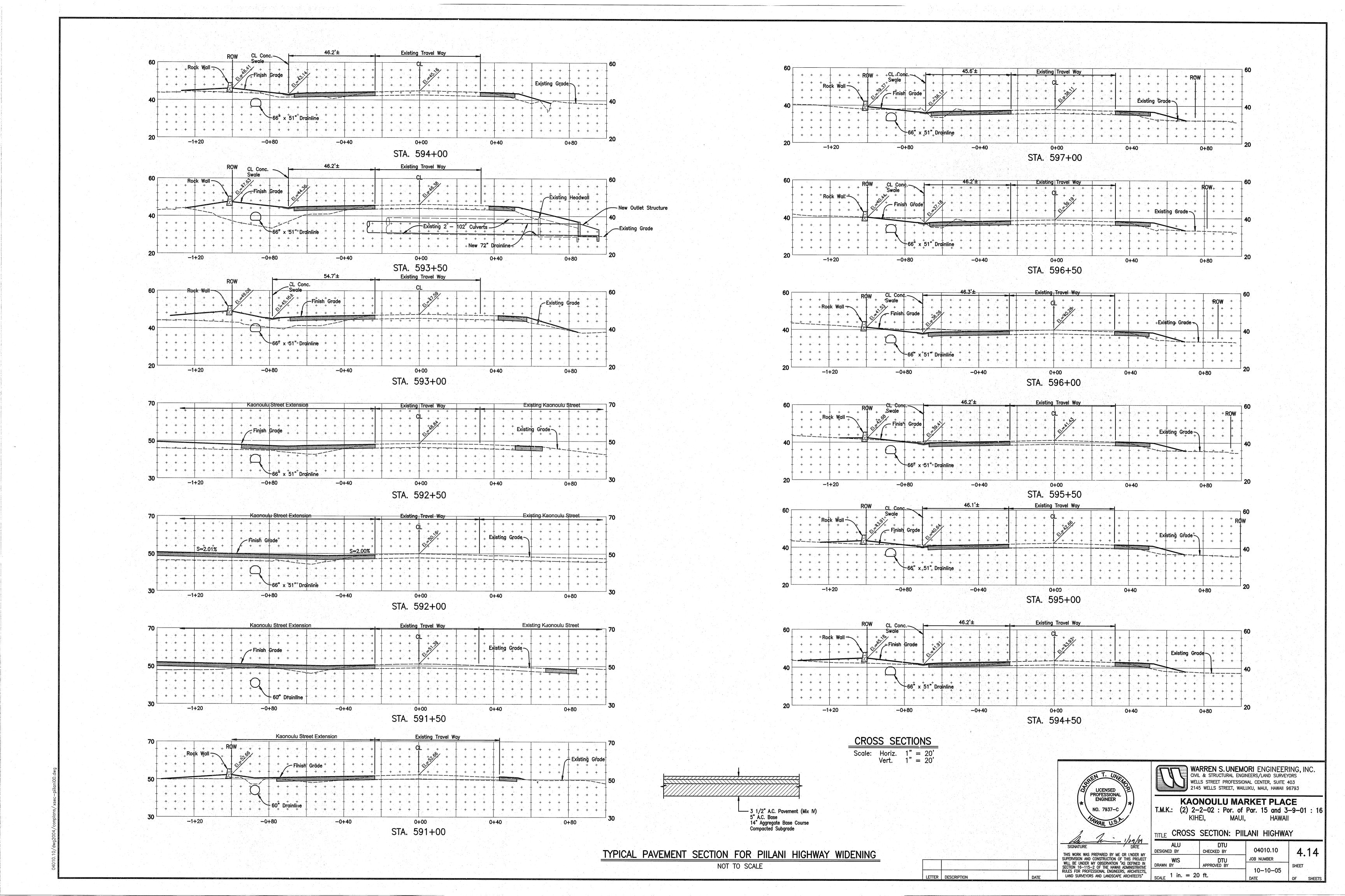


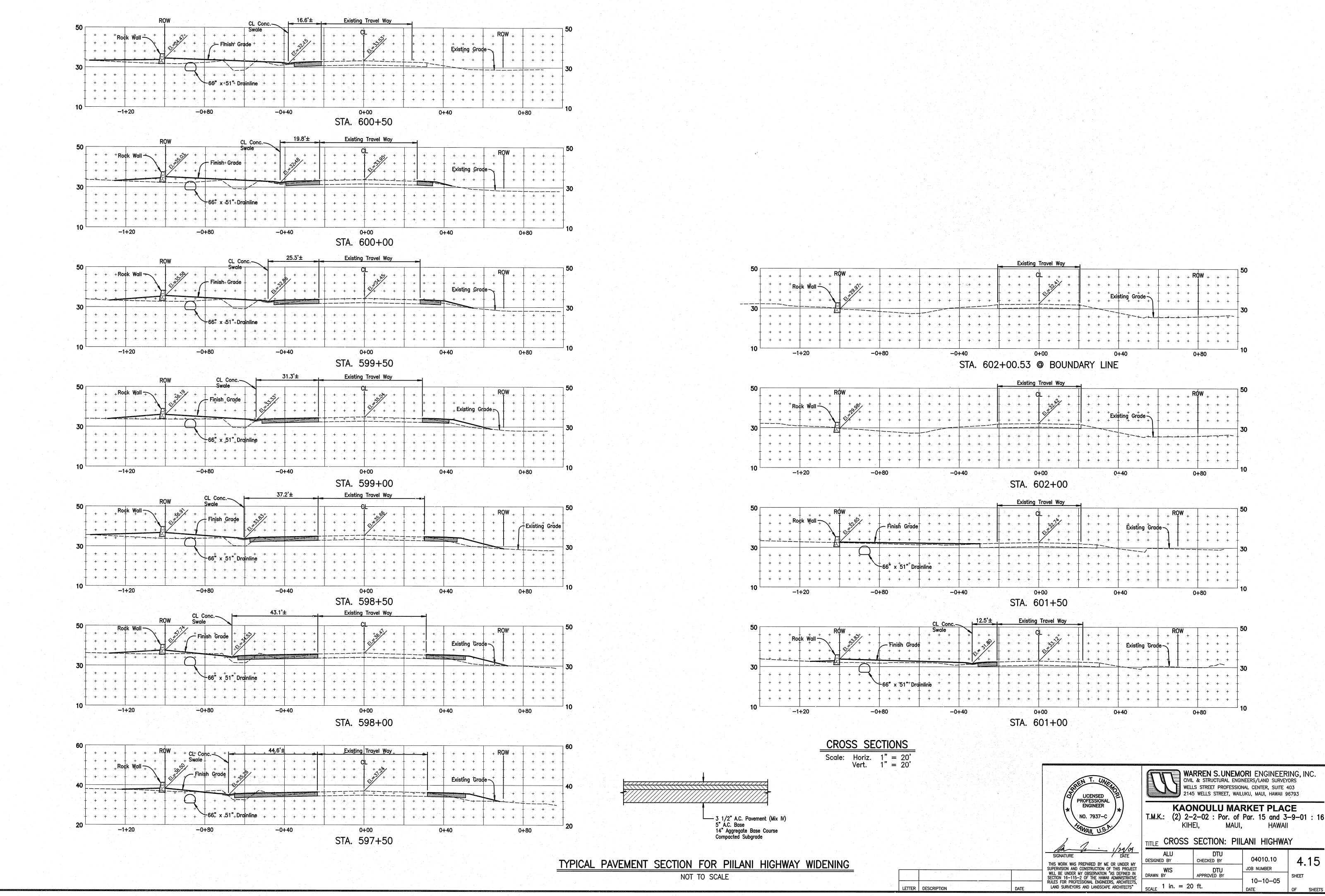


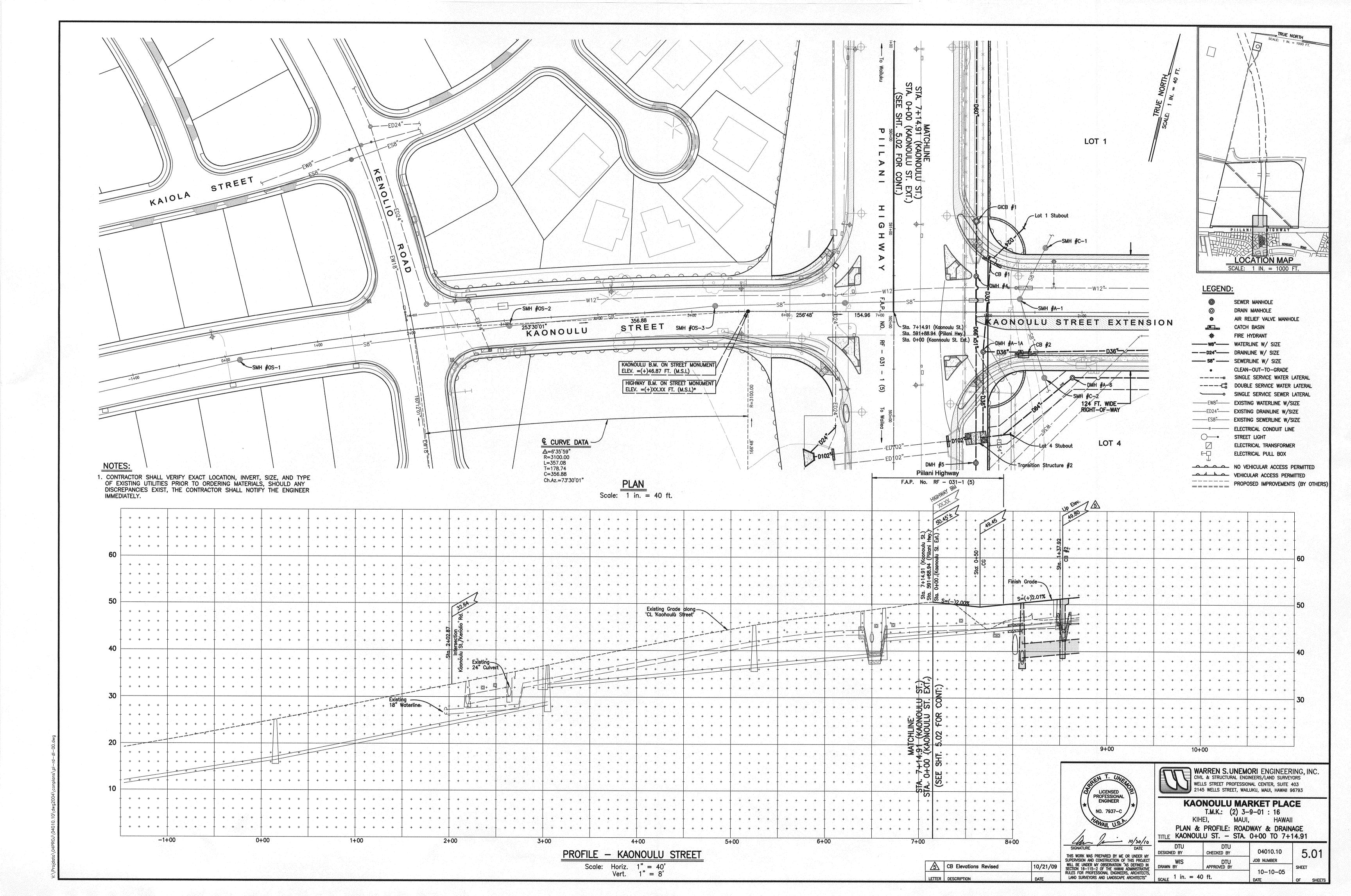


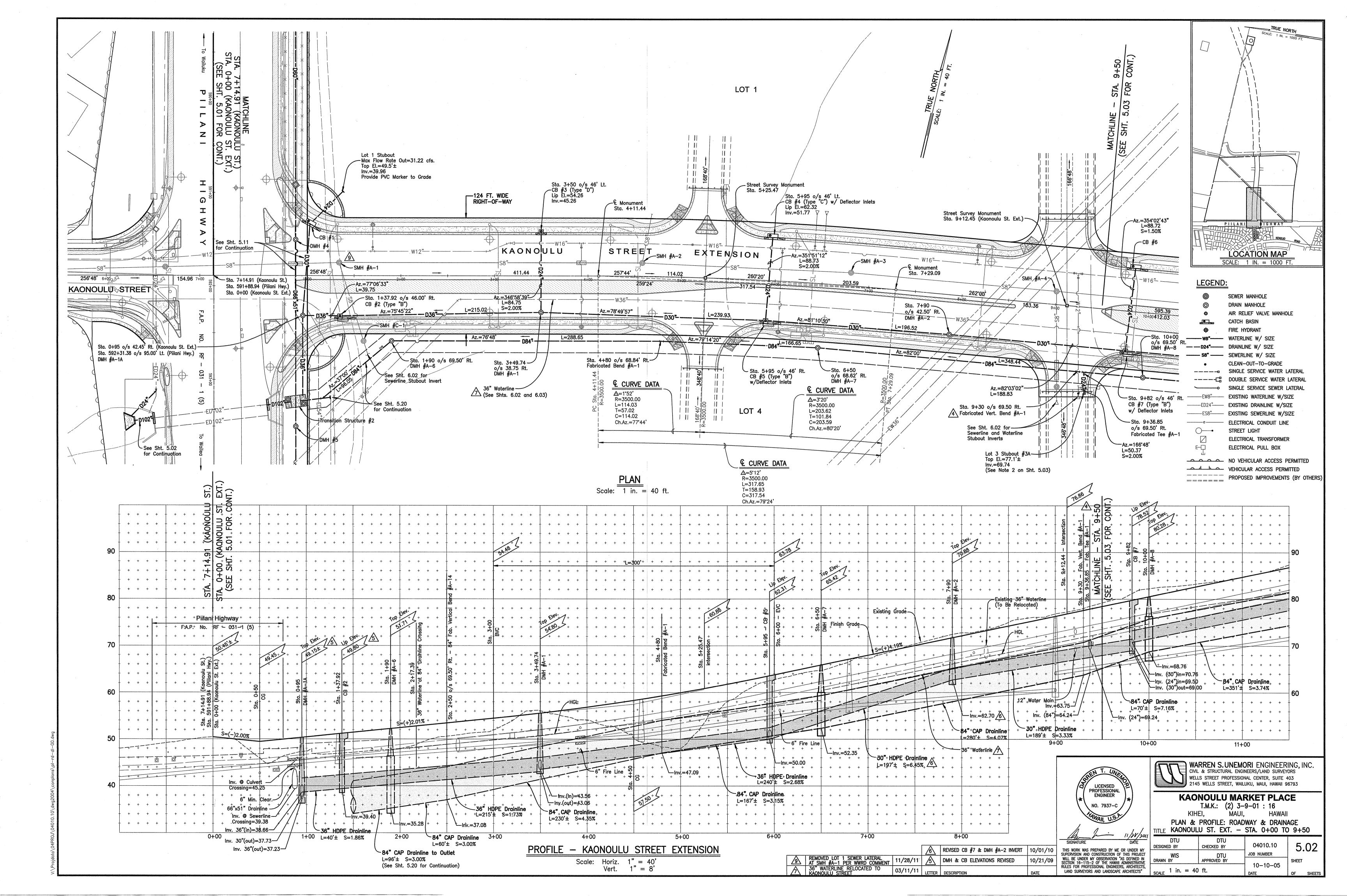


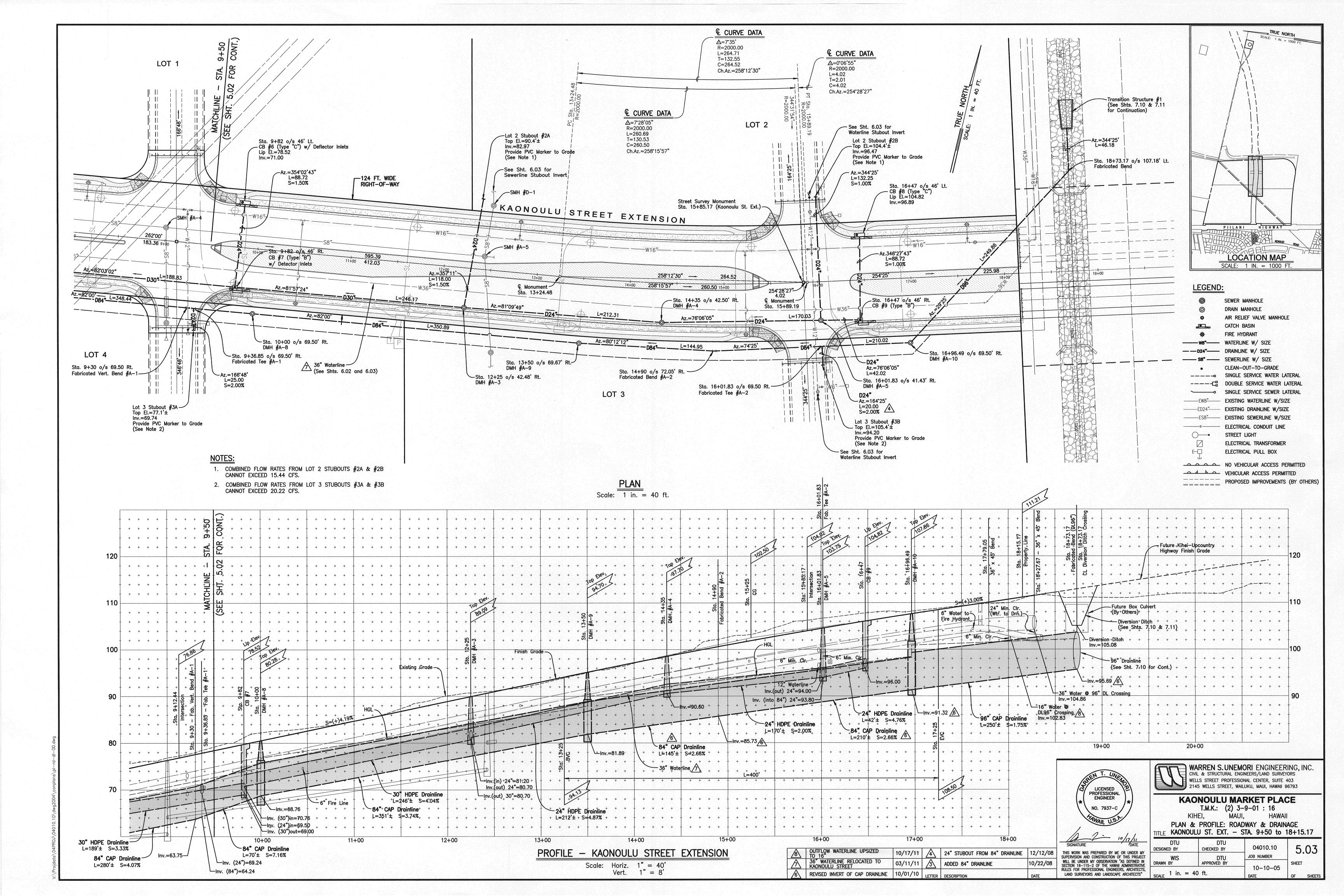


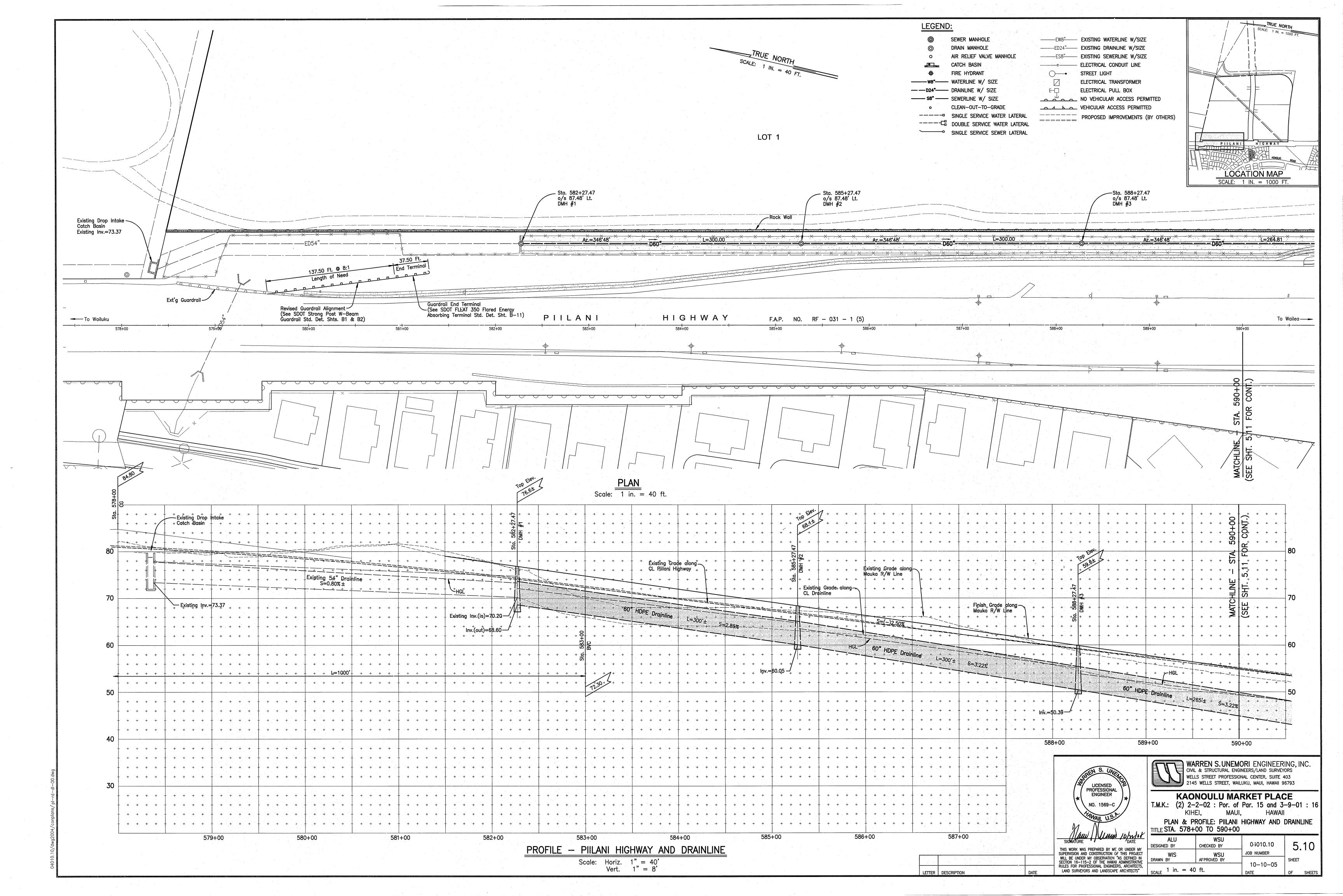


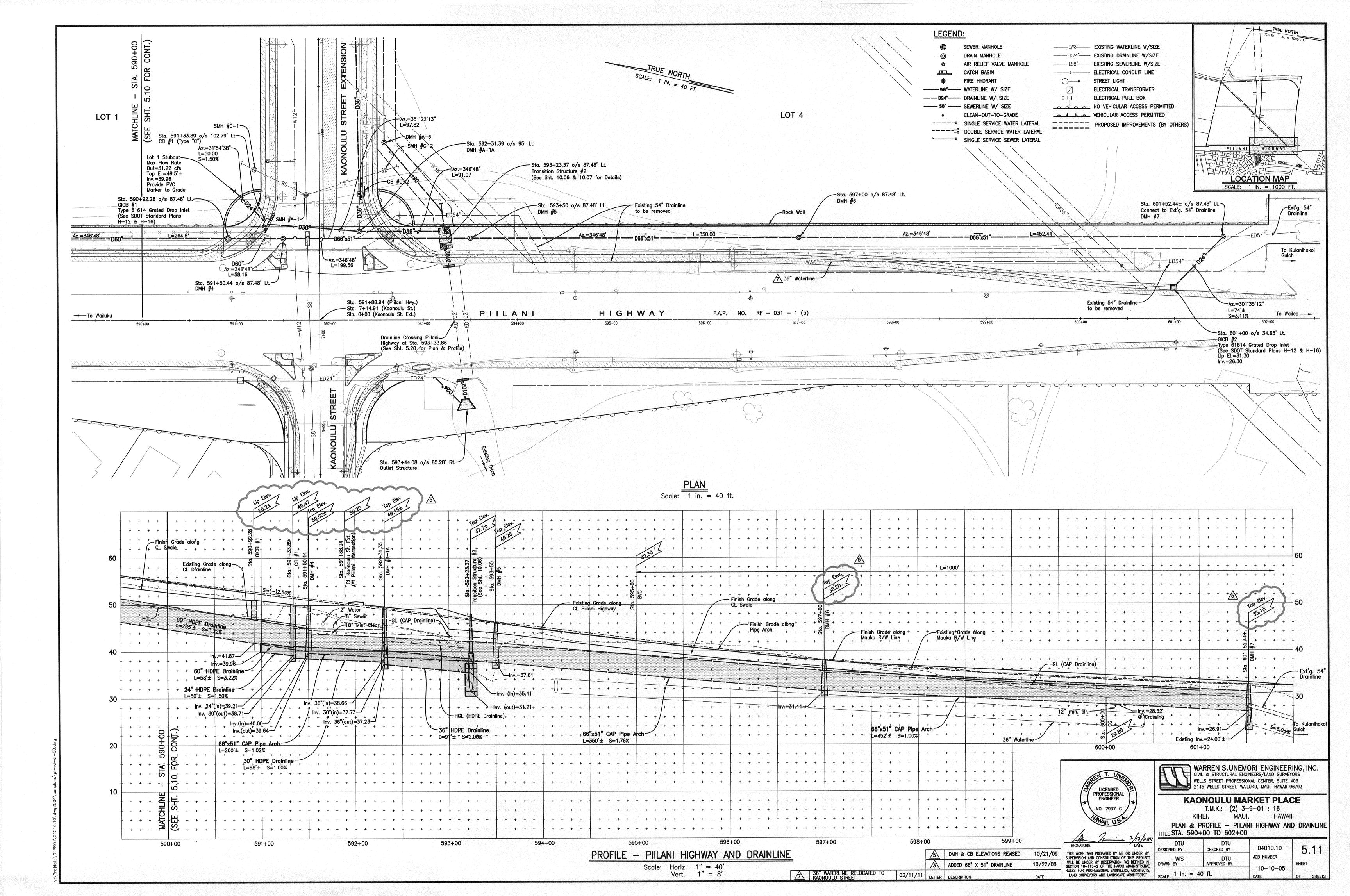


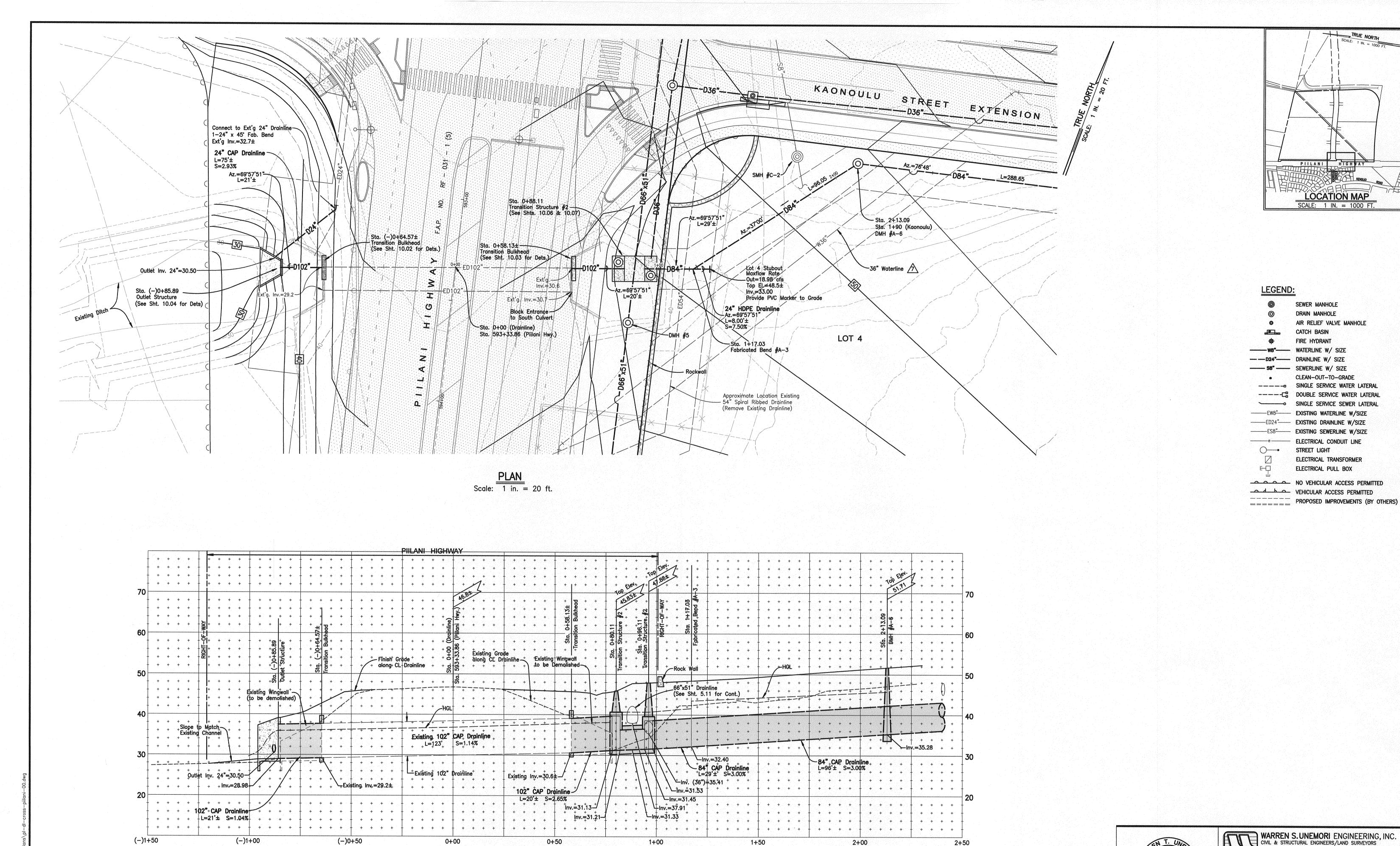












PROFILE - 102" DRAINLINE CROSSING PILLANI HIGHWAY Scale: Horiz. 1" = 20' Vert. 1" = 10'

PROFESSIONAL ENGINEER

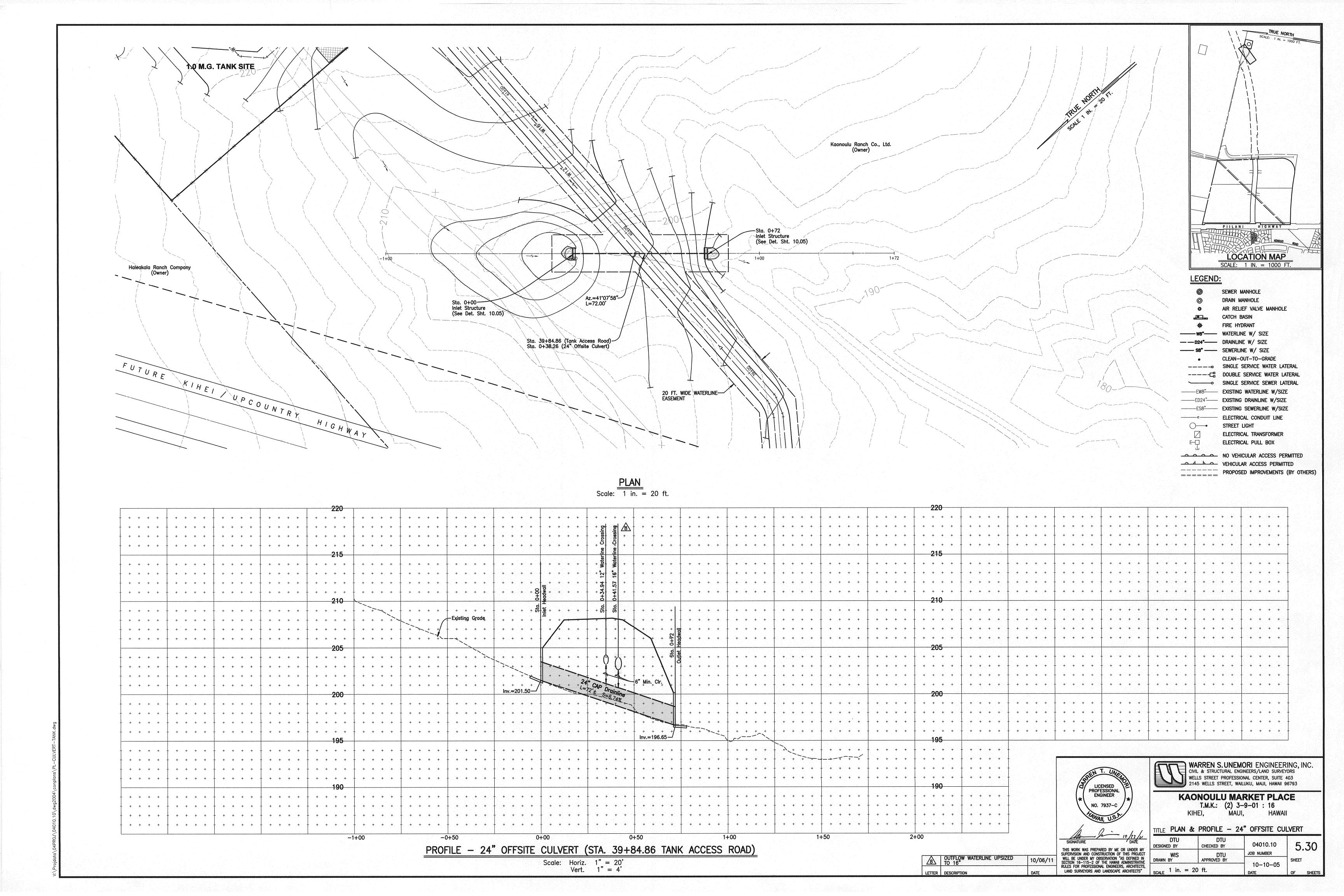
WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

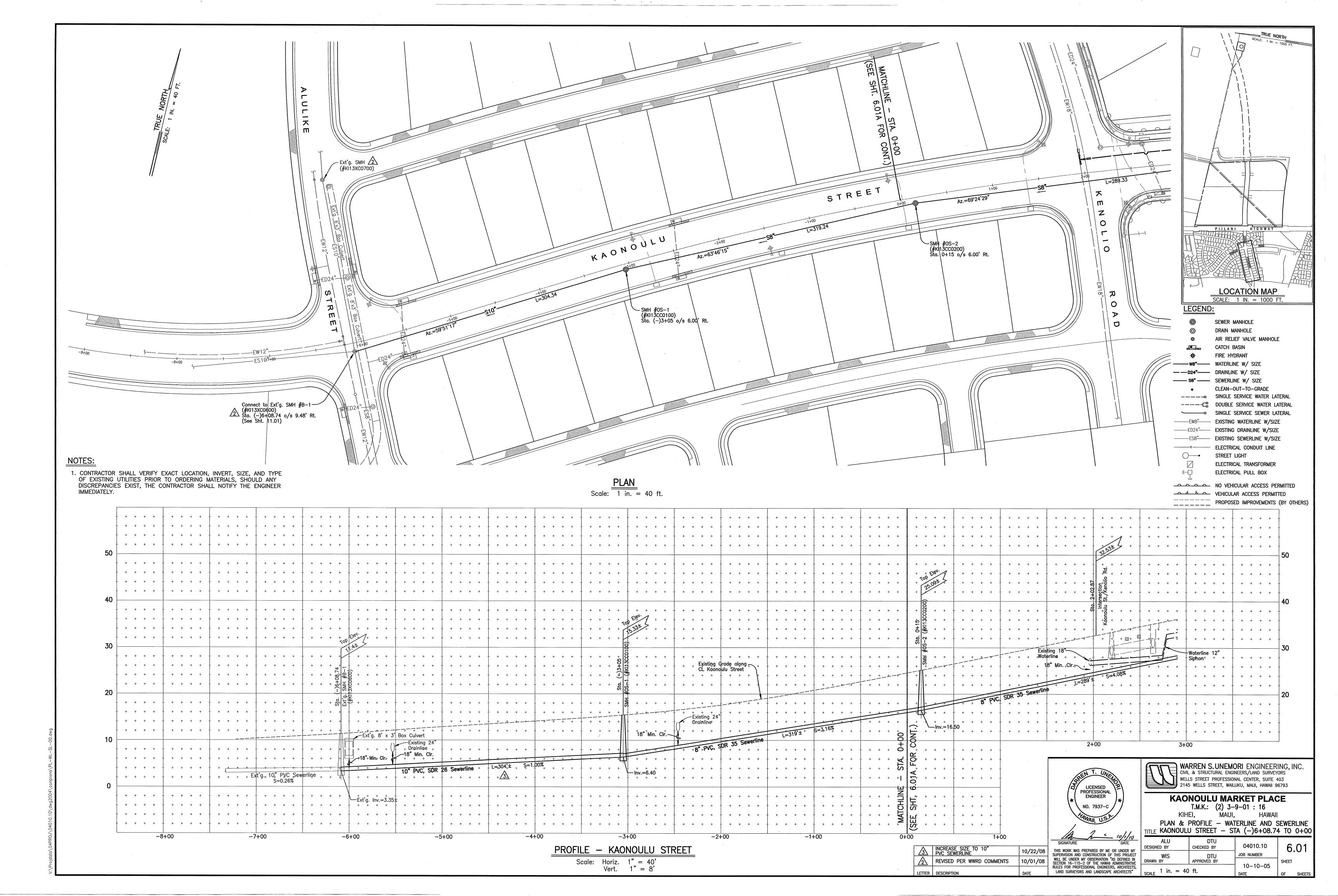
KAONOULU MARKET PLACE T.M.K.: (2) 3-9-01 : 16

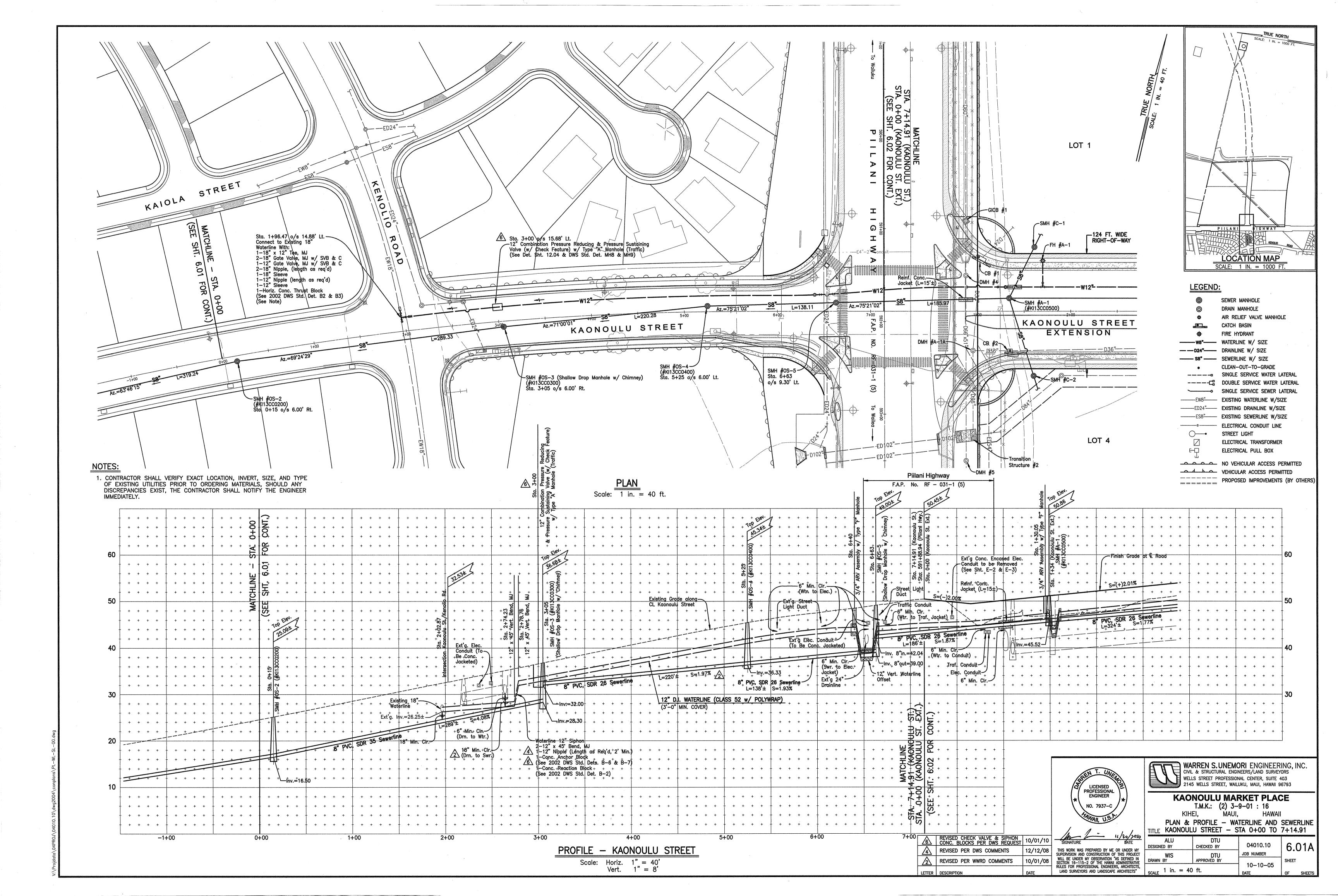
PLAN & PROFILE - EXTENSION TO 102" TITLE DRAINLINE CROSSING PILLANI HIGHWAY

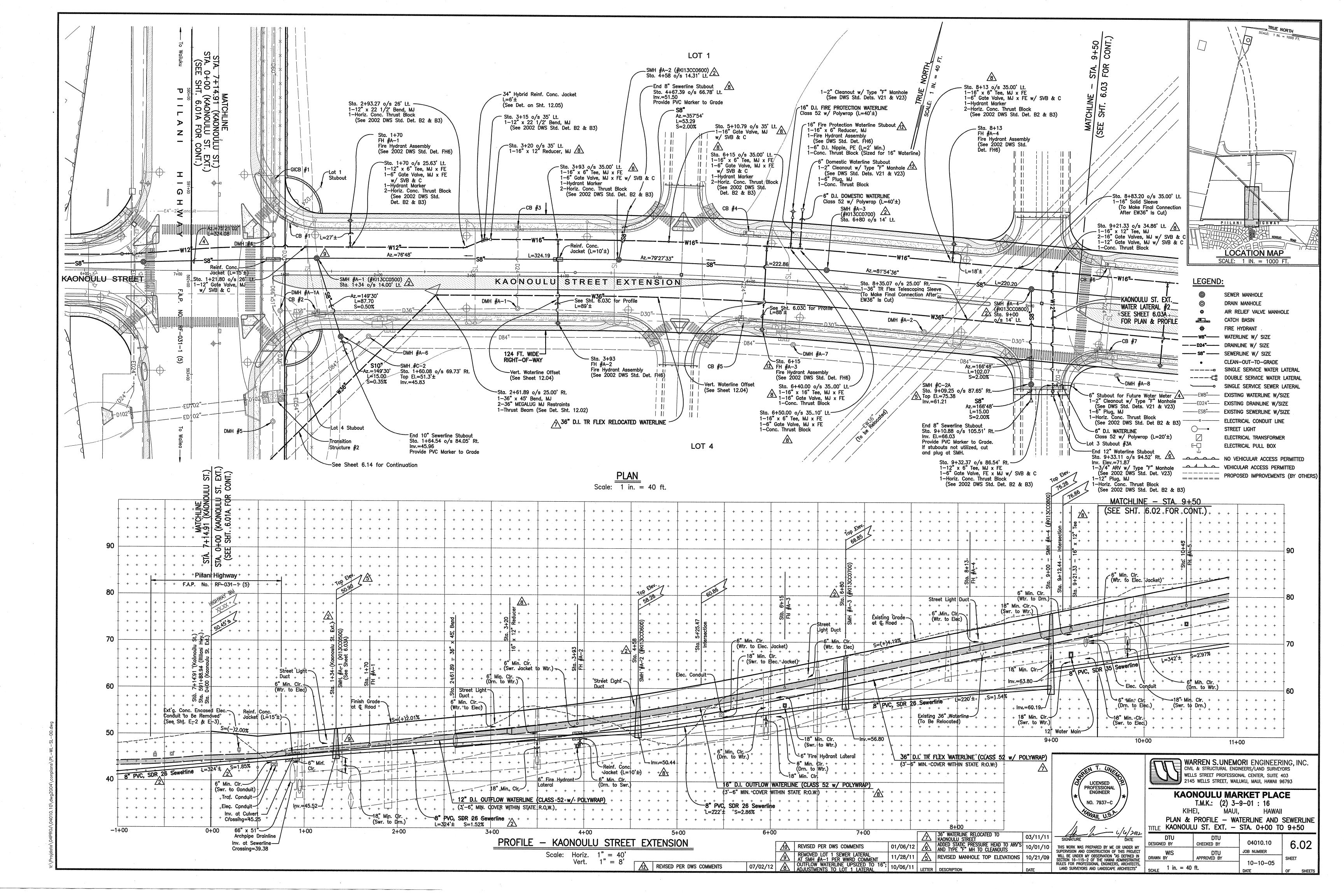
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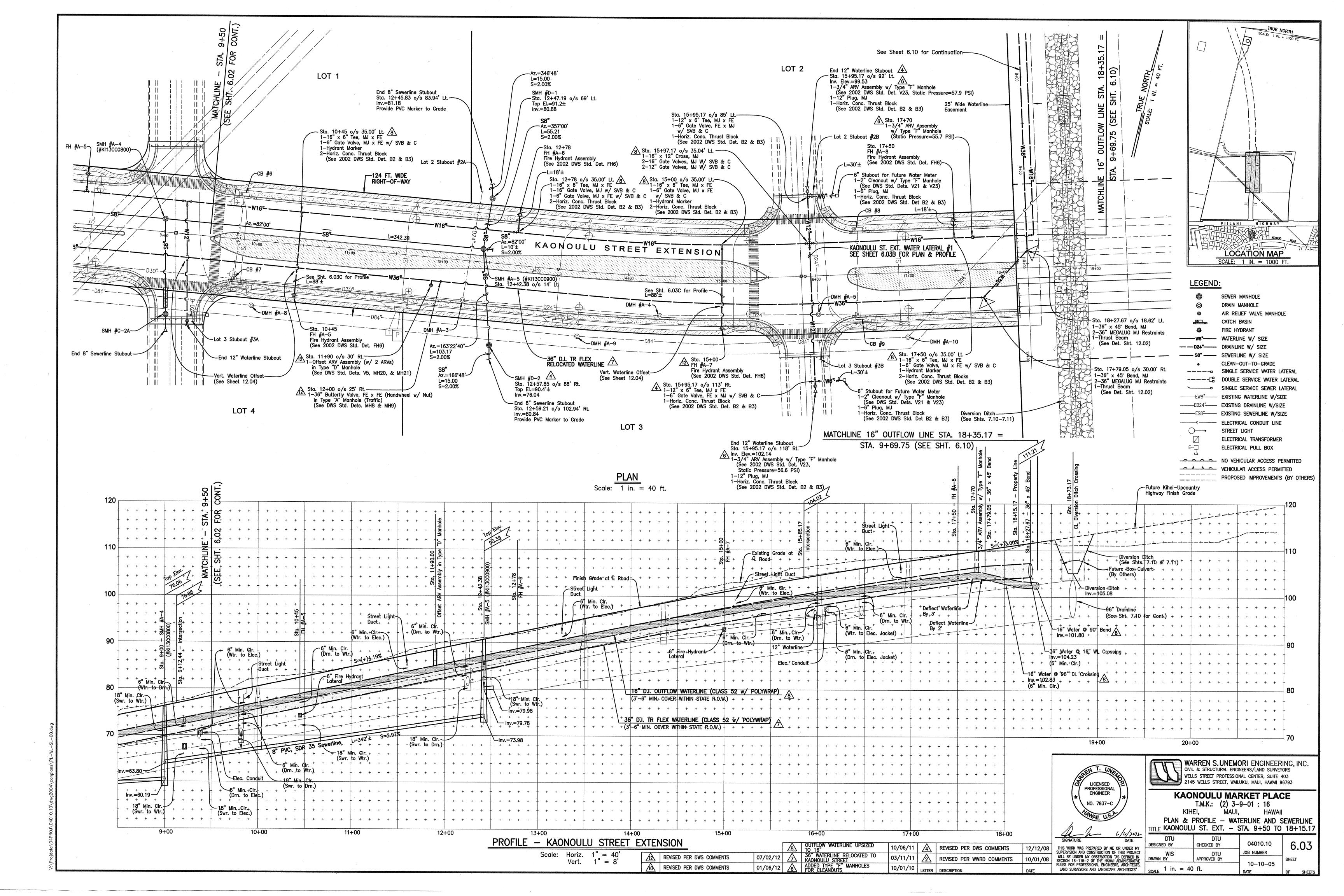
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

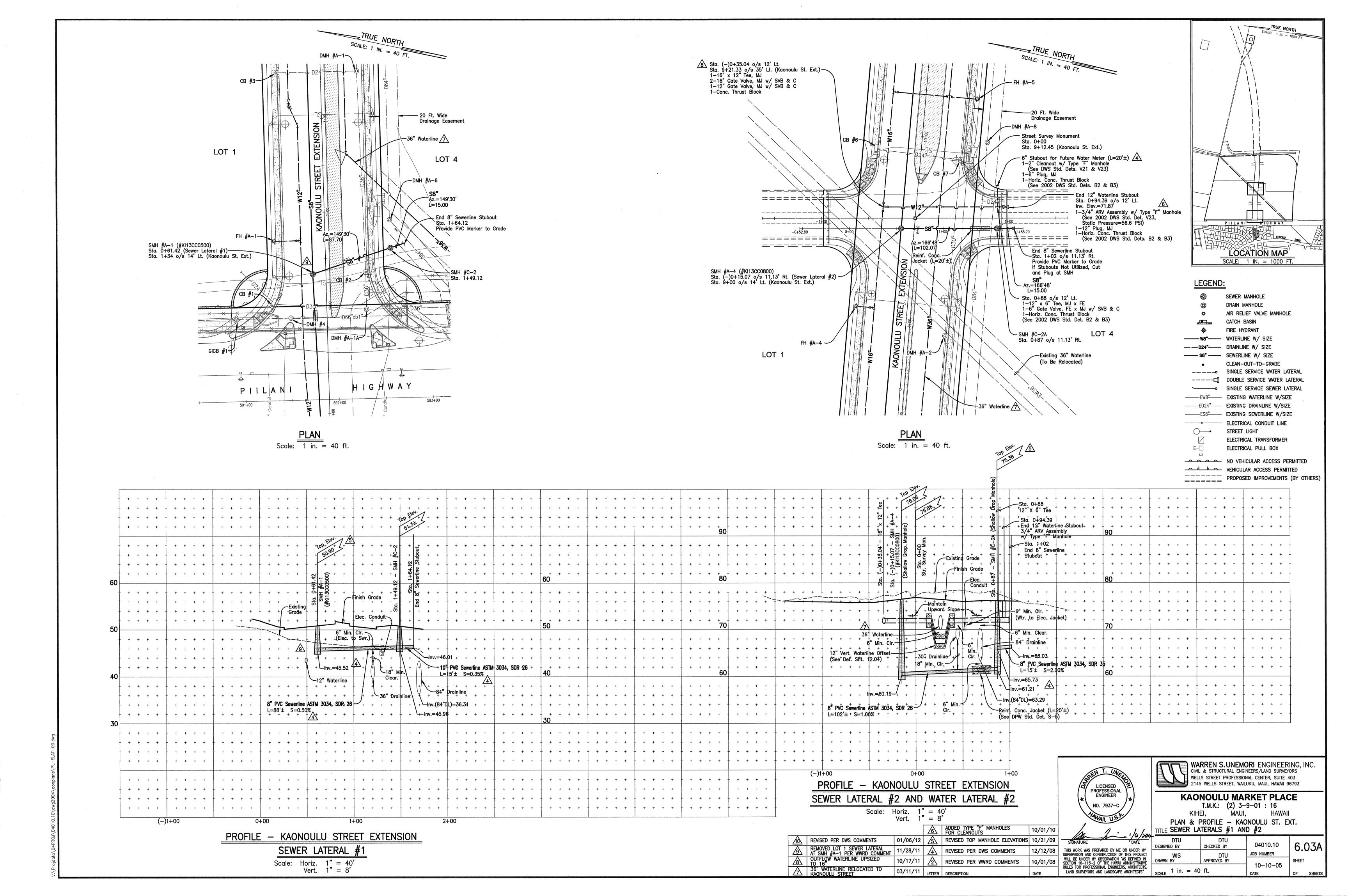


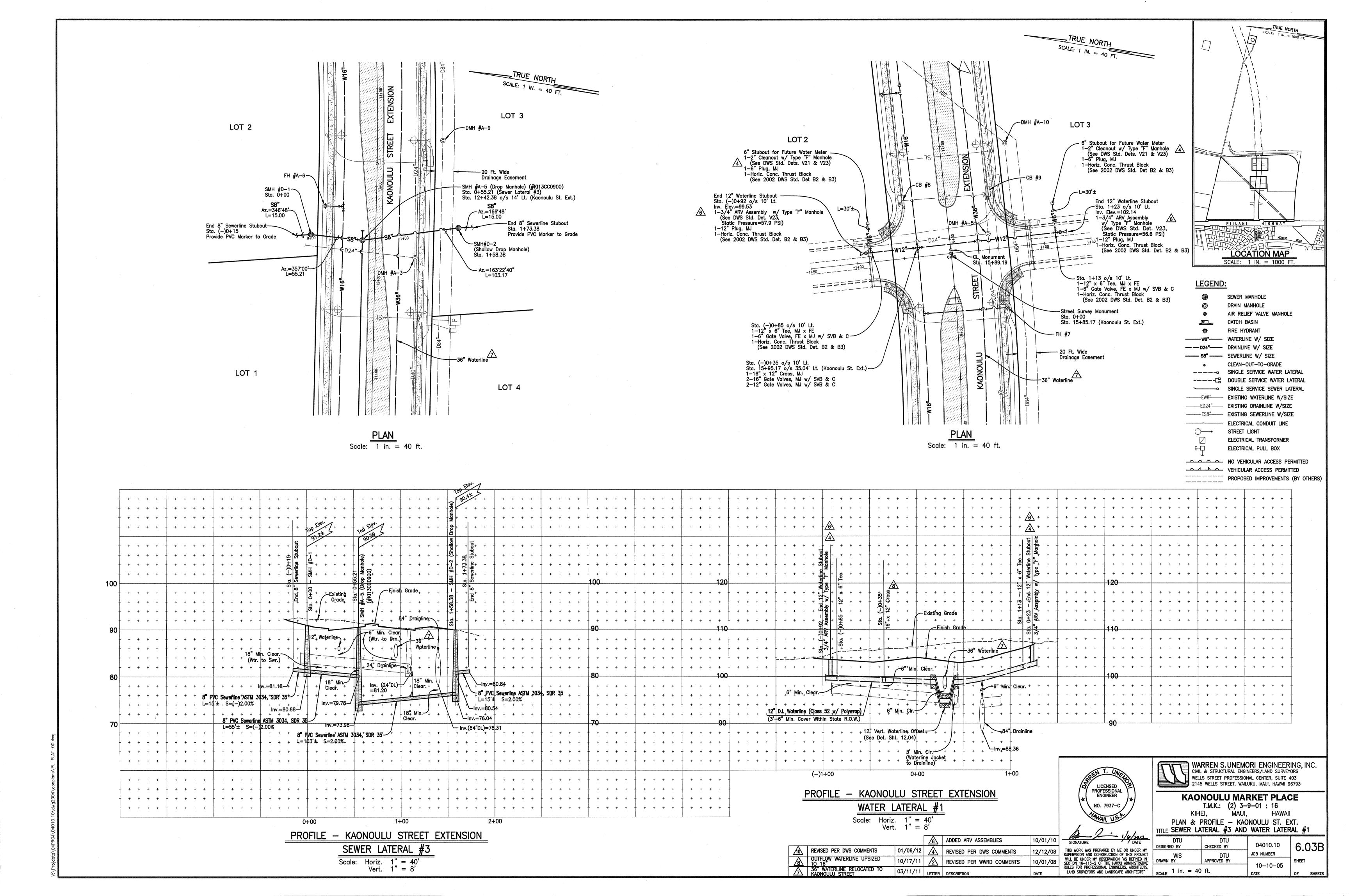


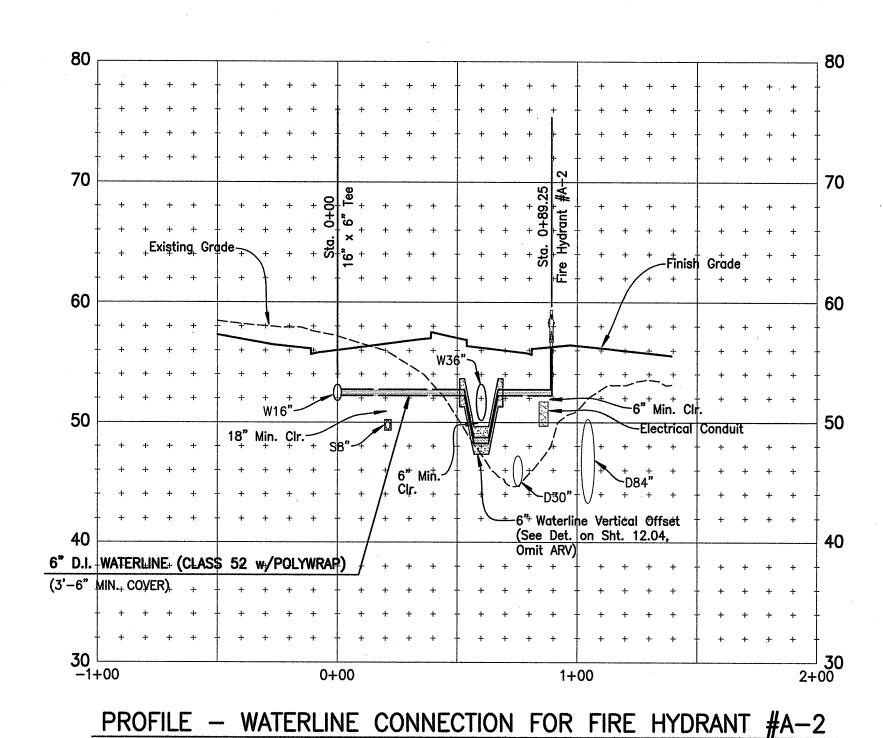






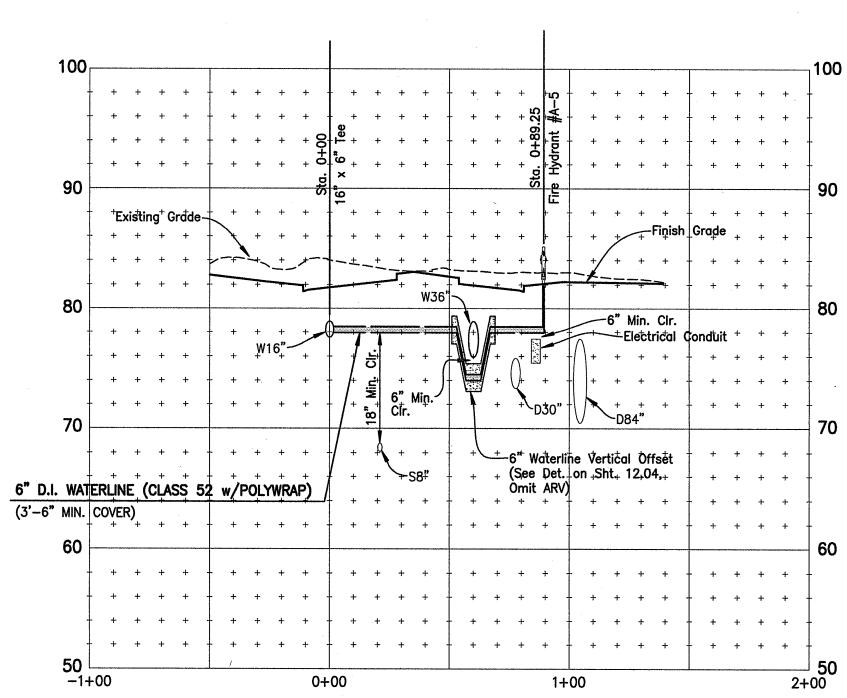




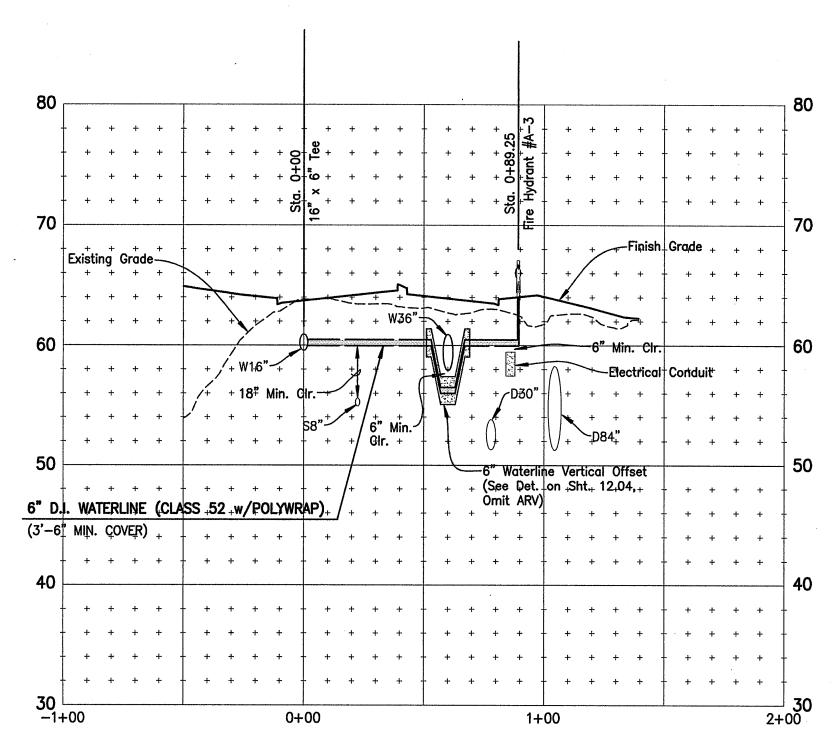


@ STA. 3+93 (KAONOULU STREET EXTENSION)

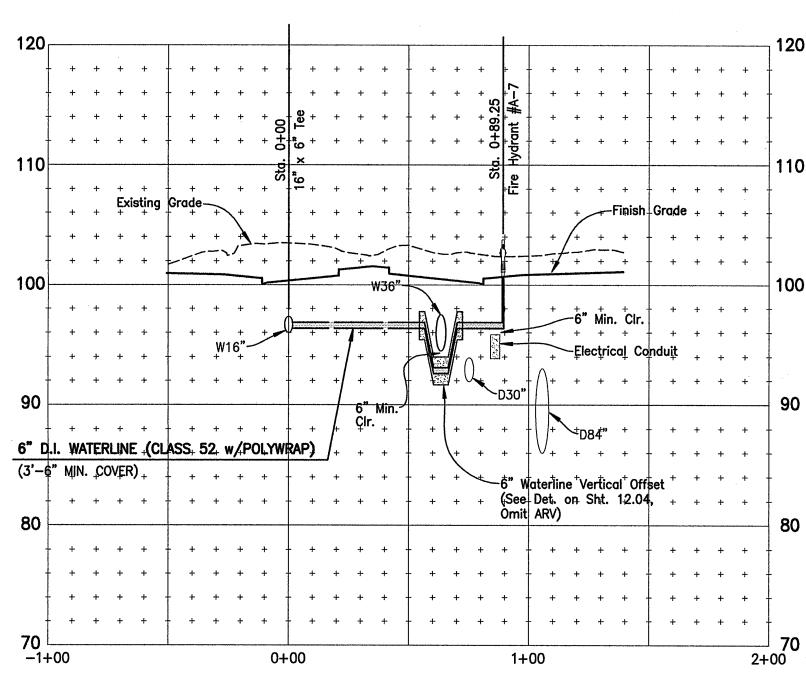
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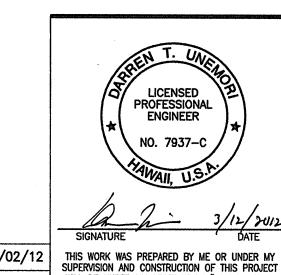
PROFILE - WATERLINE CONNECTION FOR FIRE HYDRANT #A-5 @ STA. 10+45 (KAONOULU STREET EXTENSION)



PROFILE - WATERLINE CONNECTION FOR FIRE HYDRANT #A-3 @ STA. 6+15 (KAONOULU STREET EXTENSION) Scale: Horiz. 1" = 40' Vert. 1" = 8'



PROFILE - WATERLINE CONNECTION FOR FIRE HYDRANT #A-7 @ STA. 15+00 (KAONOULU STREET EXTENSION)



LICENSED PROFESSIONAL ENGINEER NO. 7937-C
AMAII, U.S.A.
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TITLE PROFILES - FIRE HYDRANT LATERALS

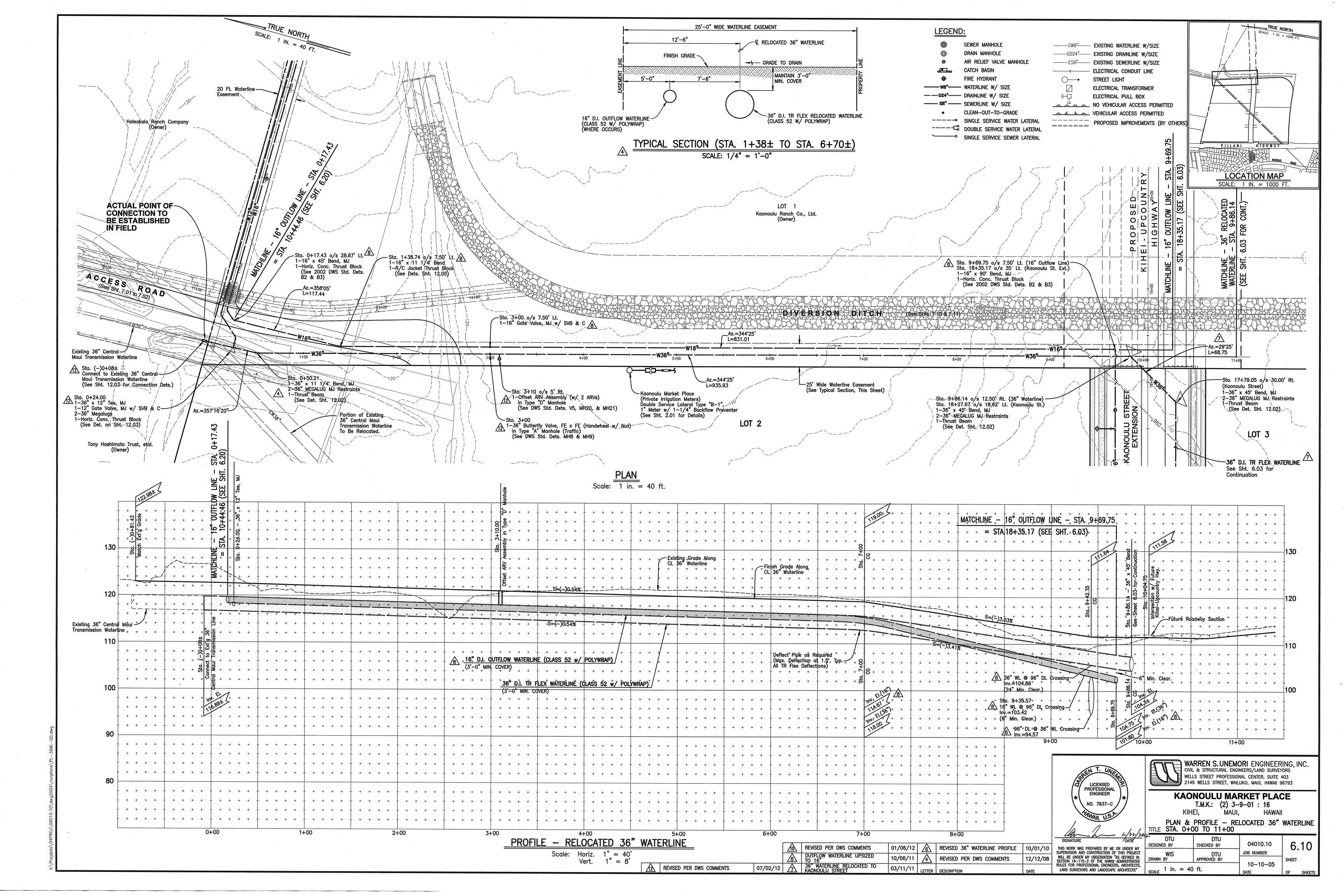
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1 in. = 40	ft.	10-10-05			
SCALE III TO	16.	DATE	OF	SHEETS	

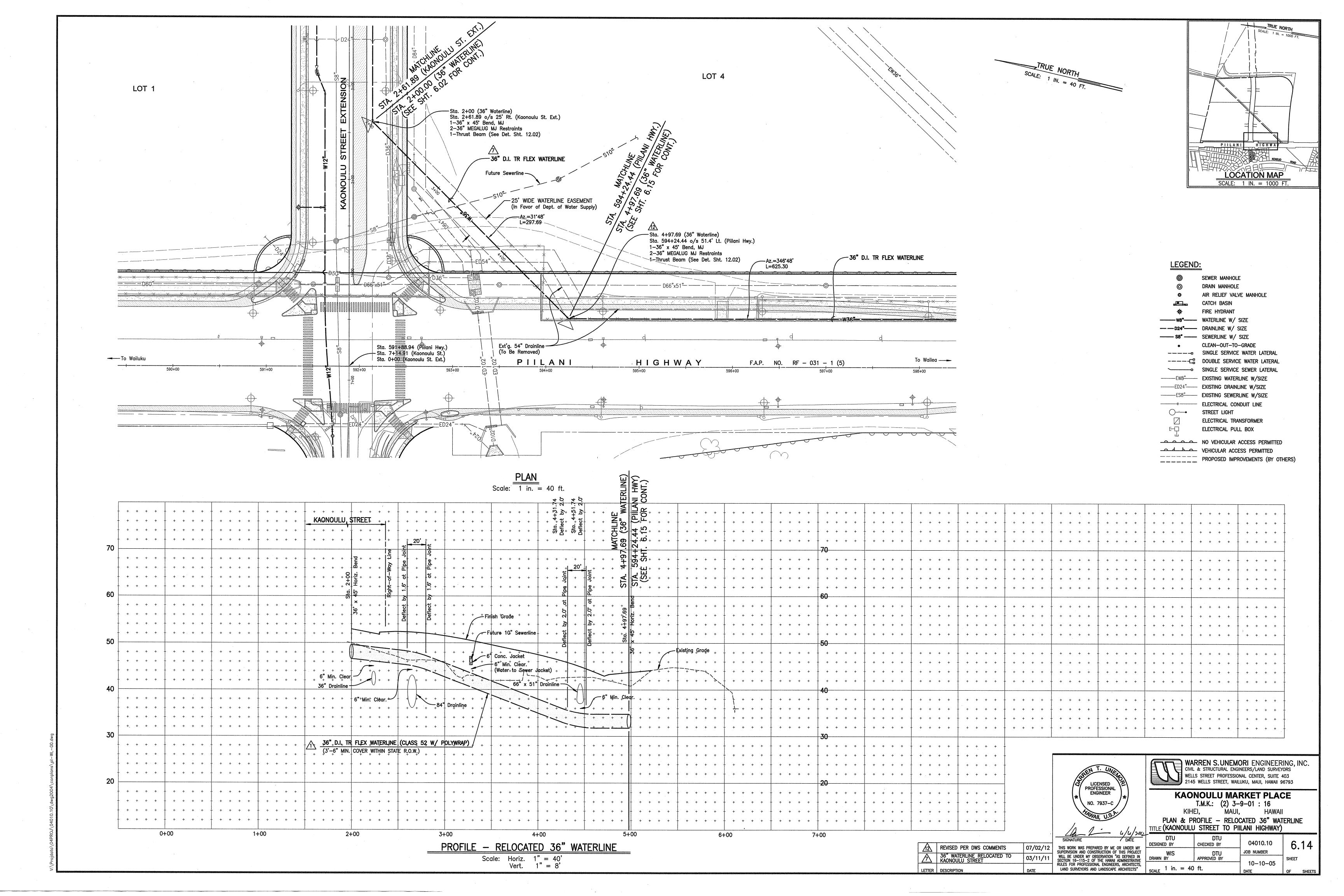
WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS

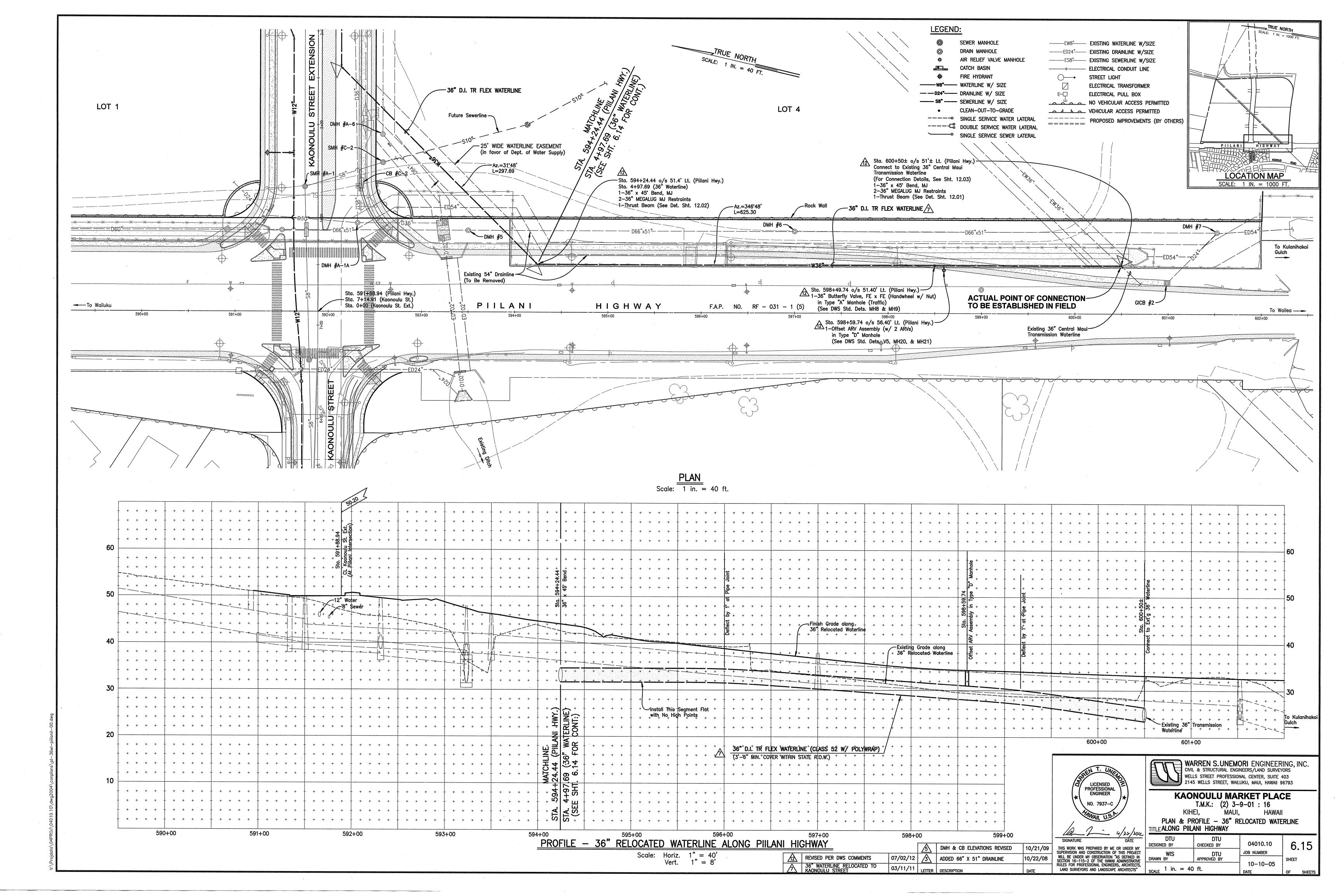
LOCATION MAP

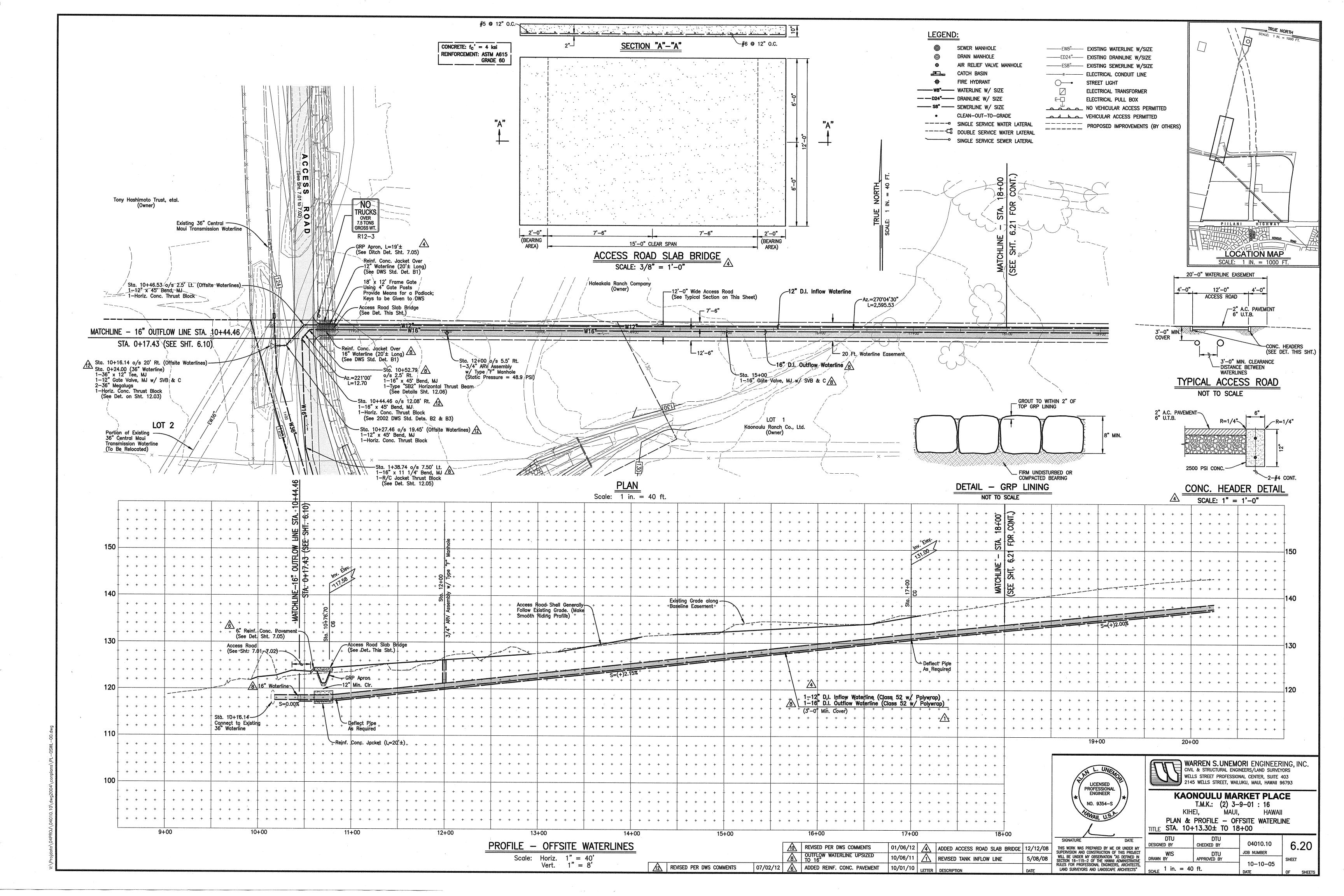
SCALE: 1 IN. = 1000 FT

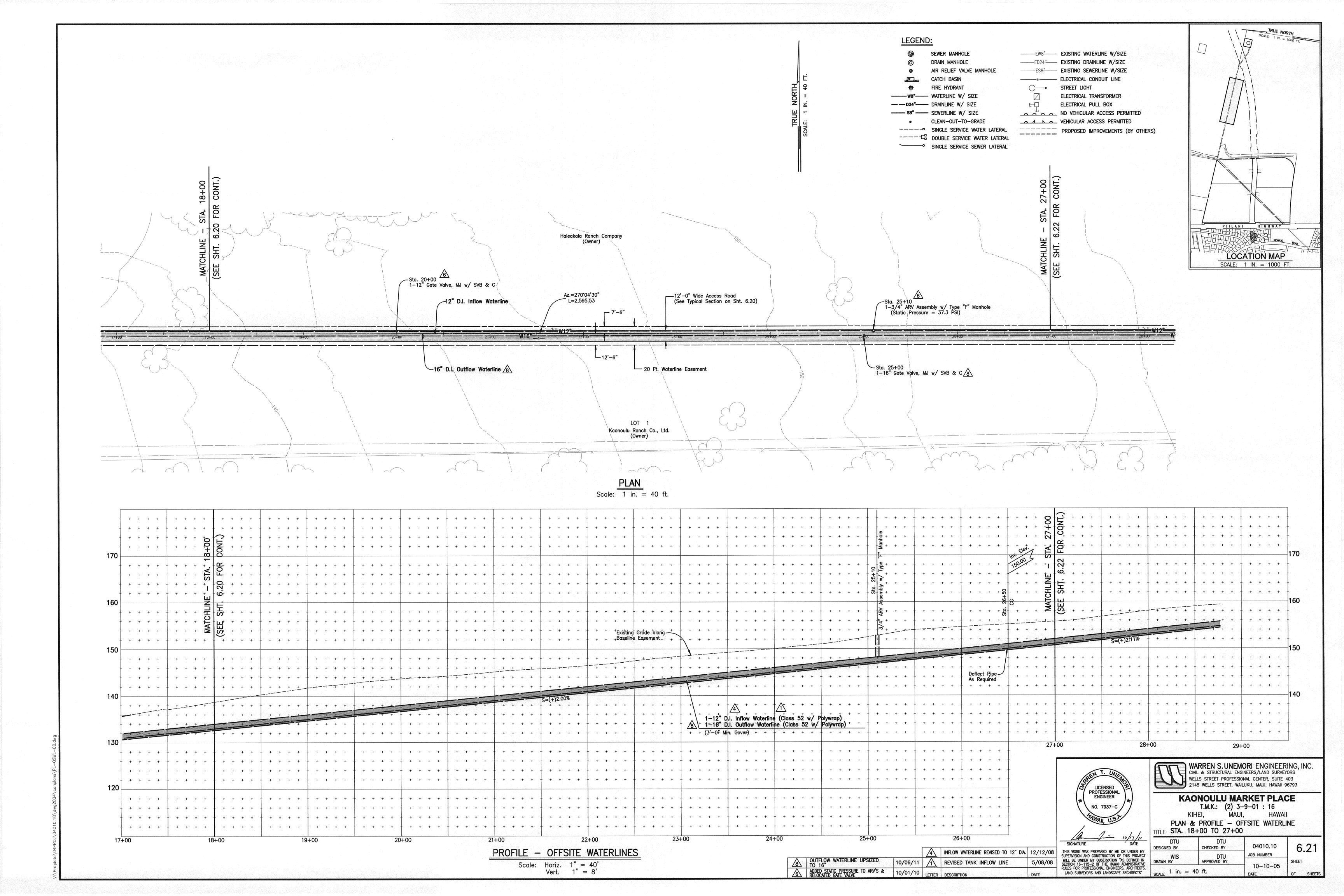
REVISED PER DWS COMMENTS WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, REVISED PER DWS COMMENTS LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

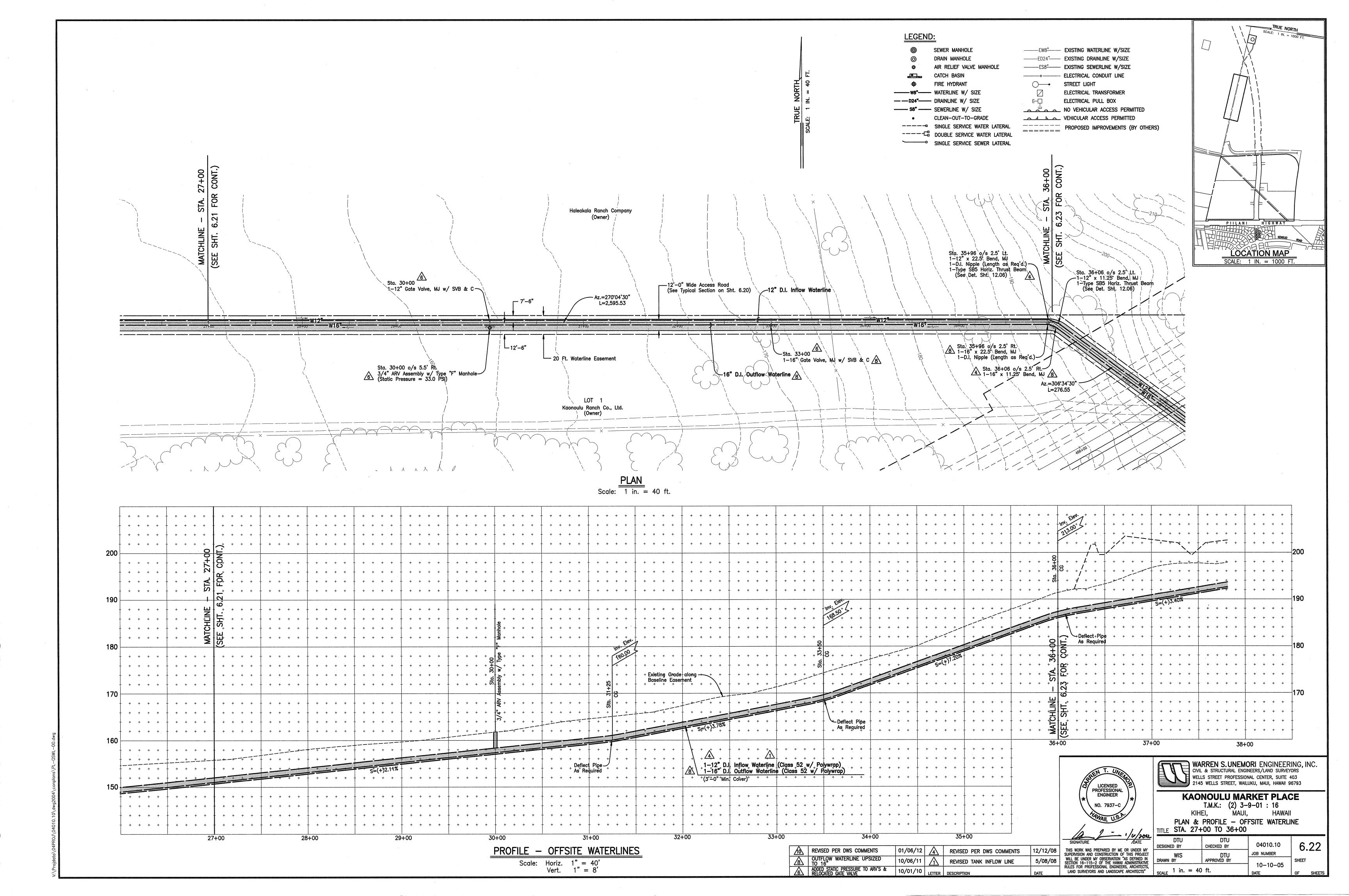


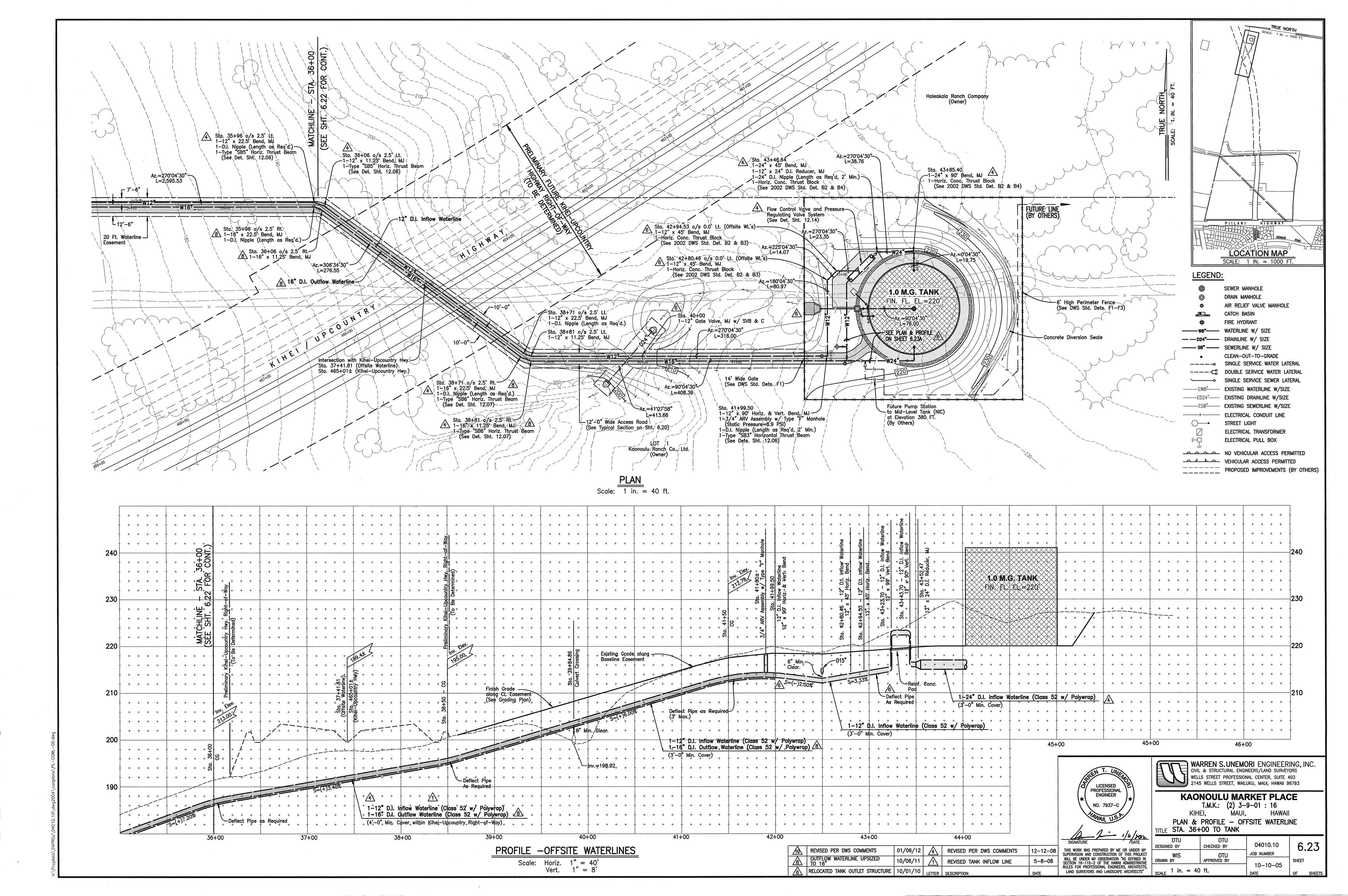


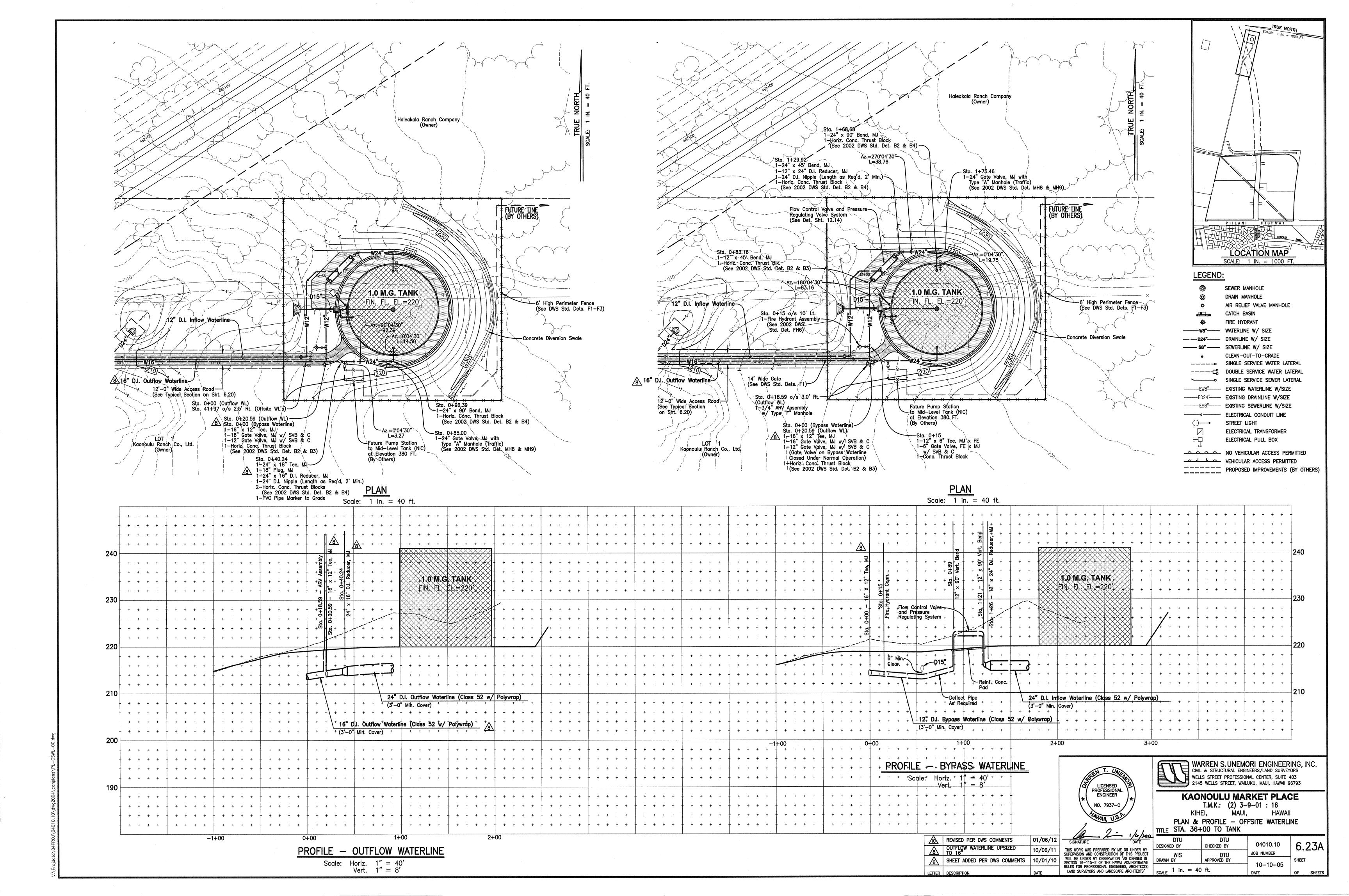


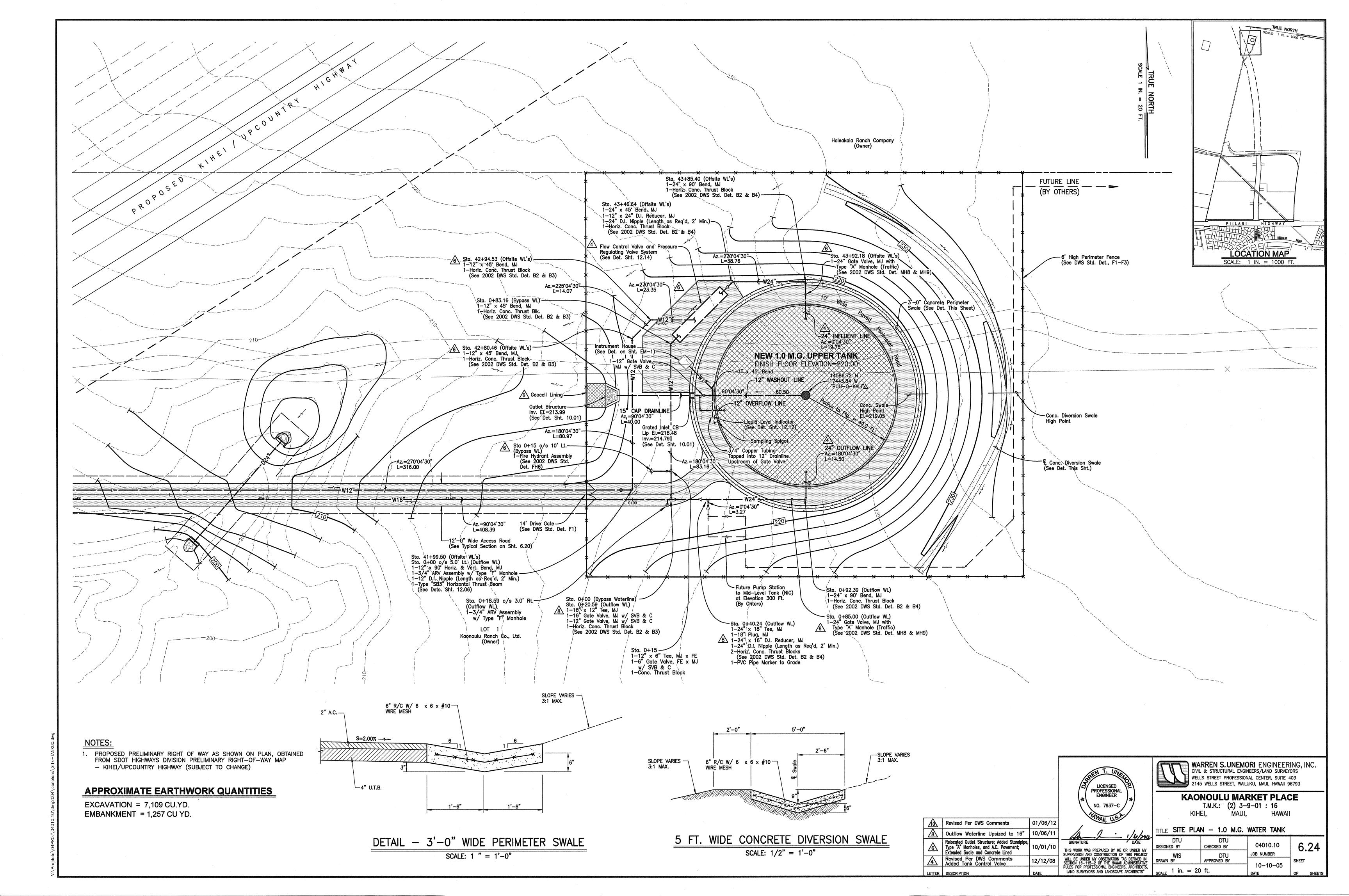


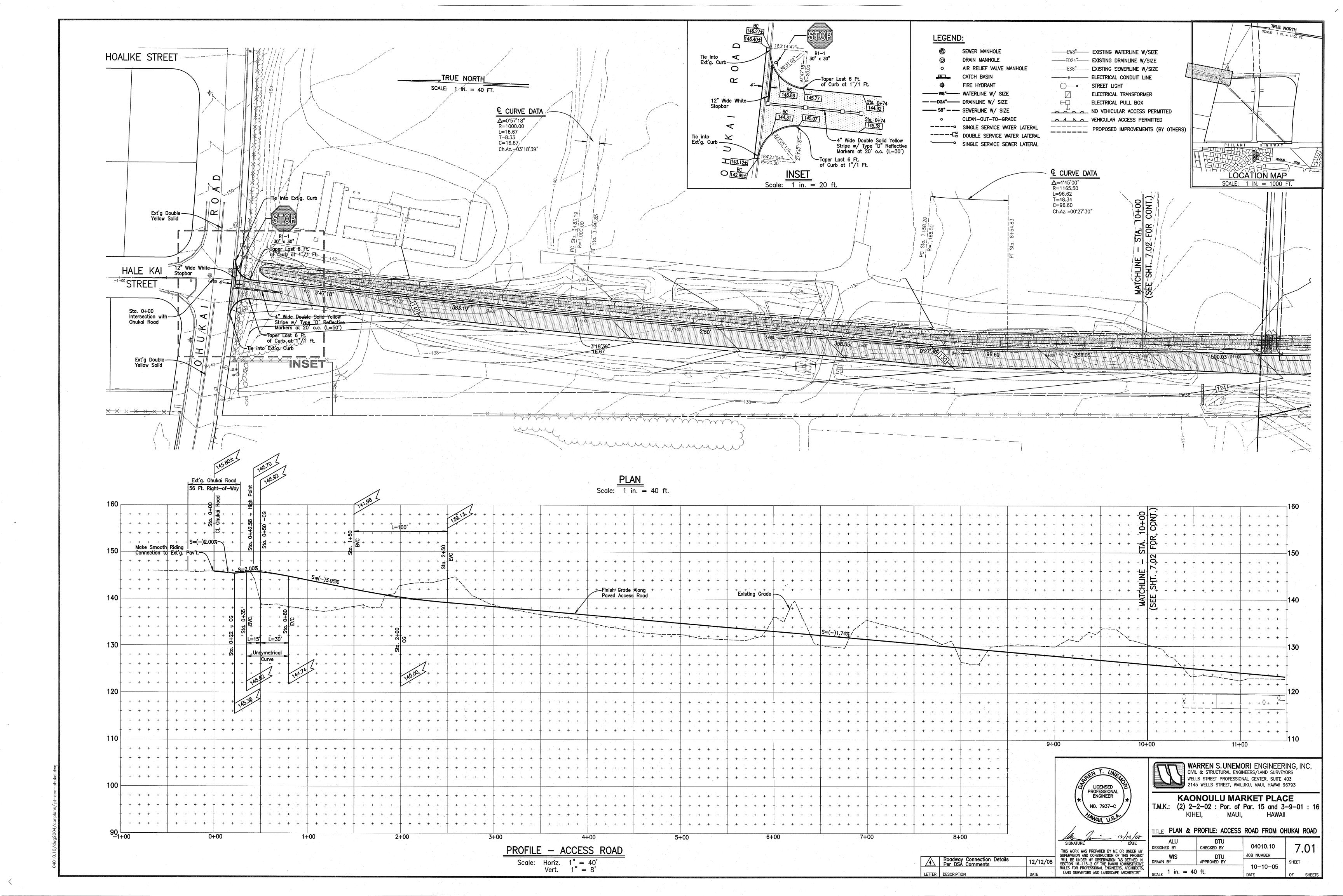


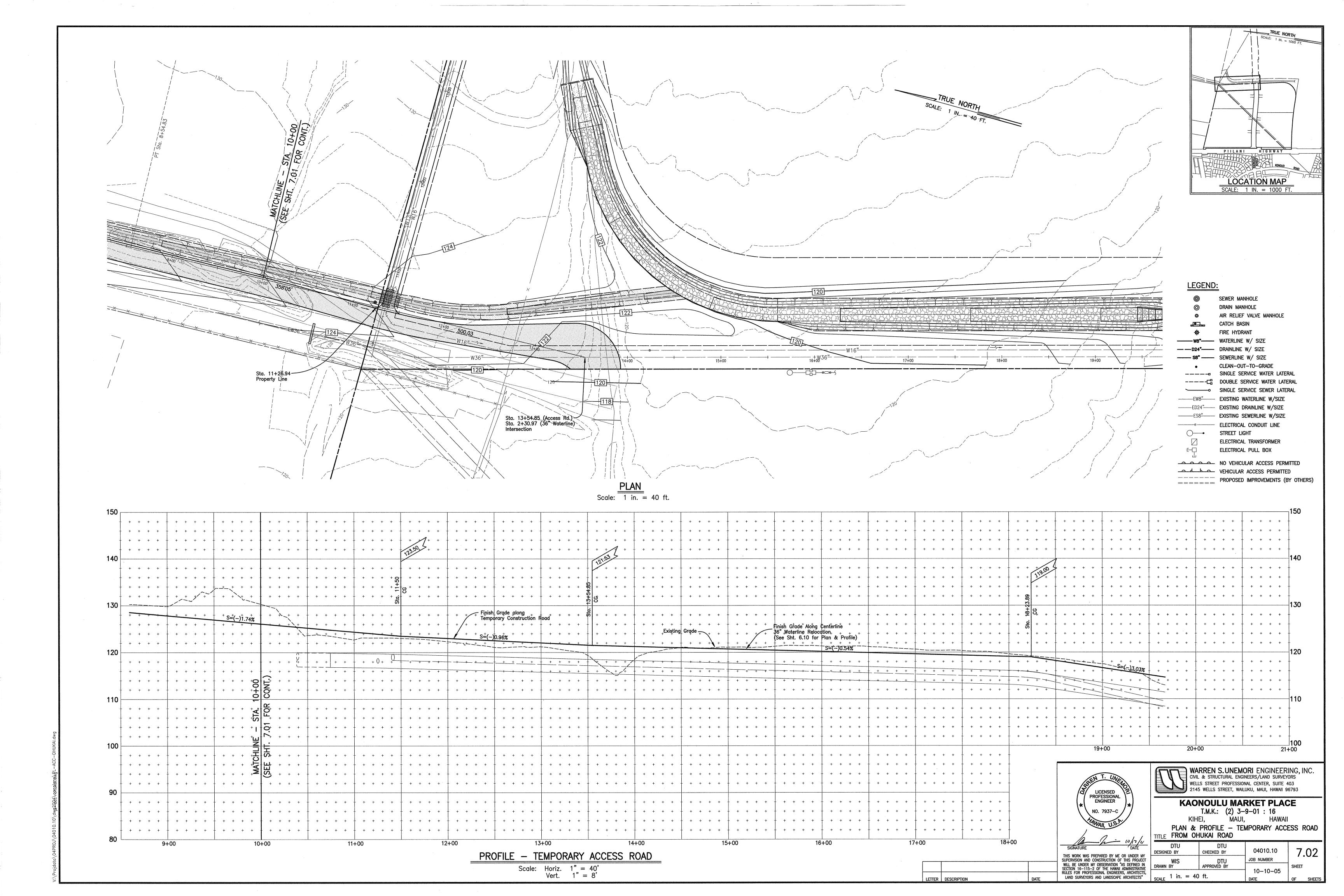


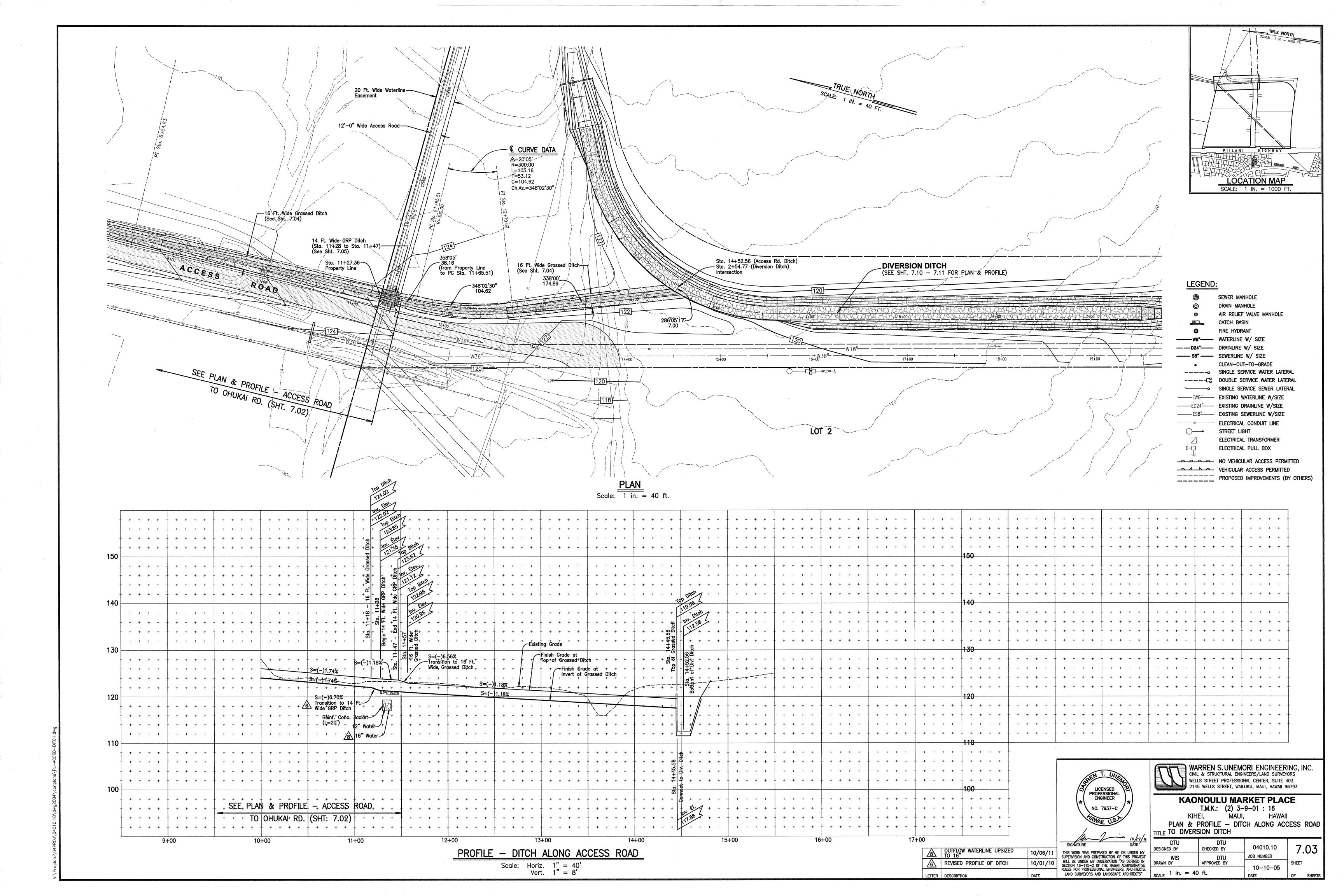


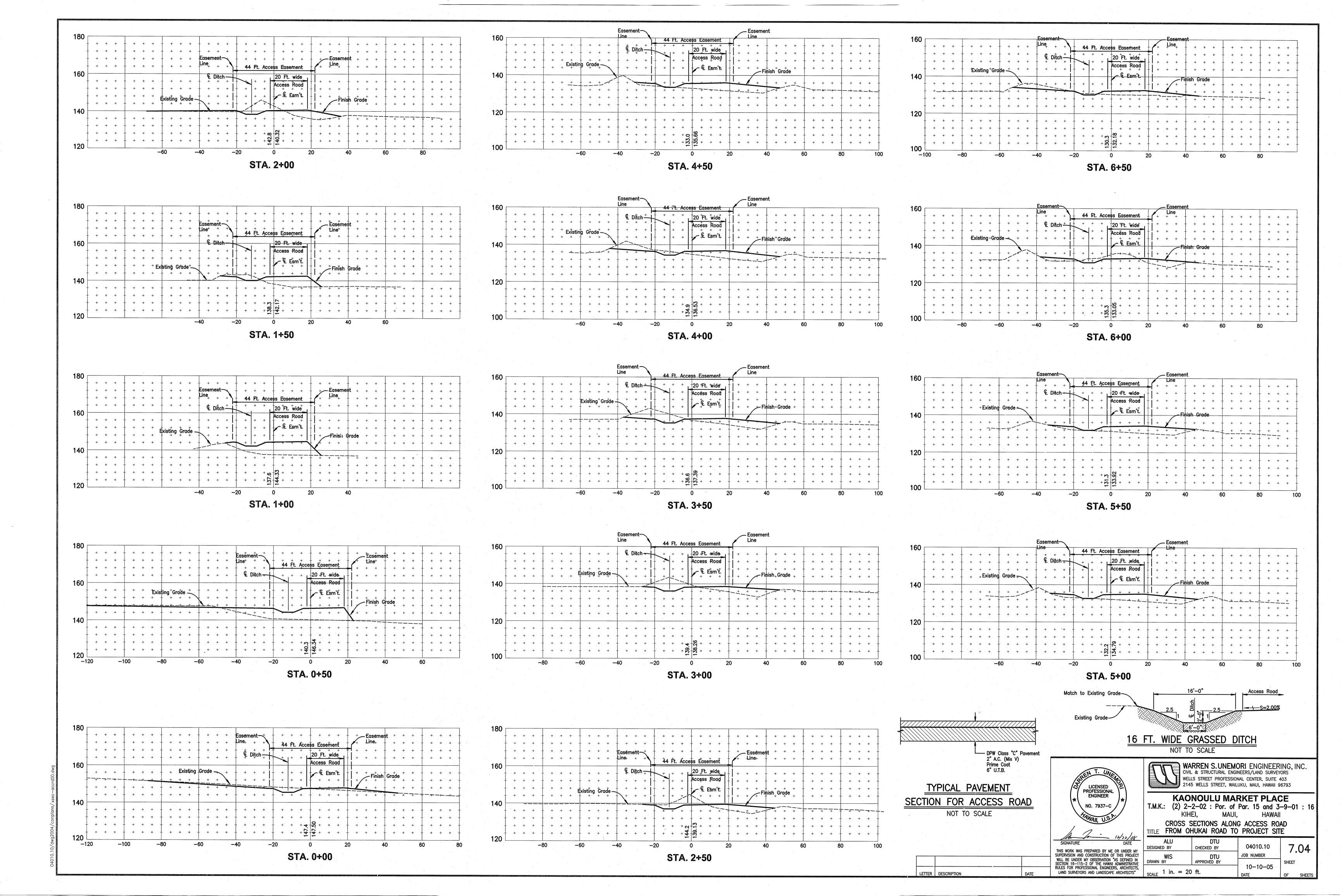


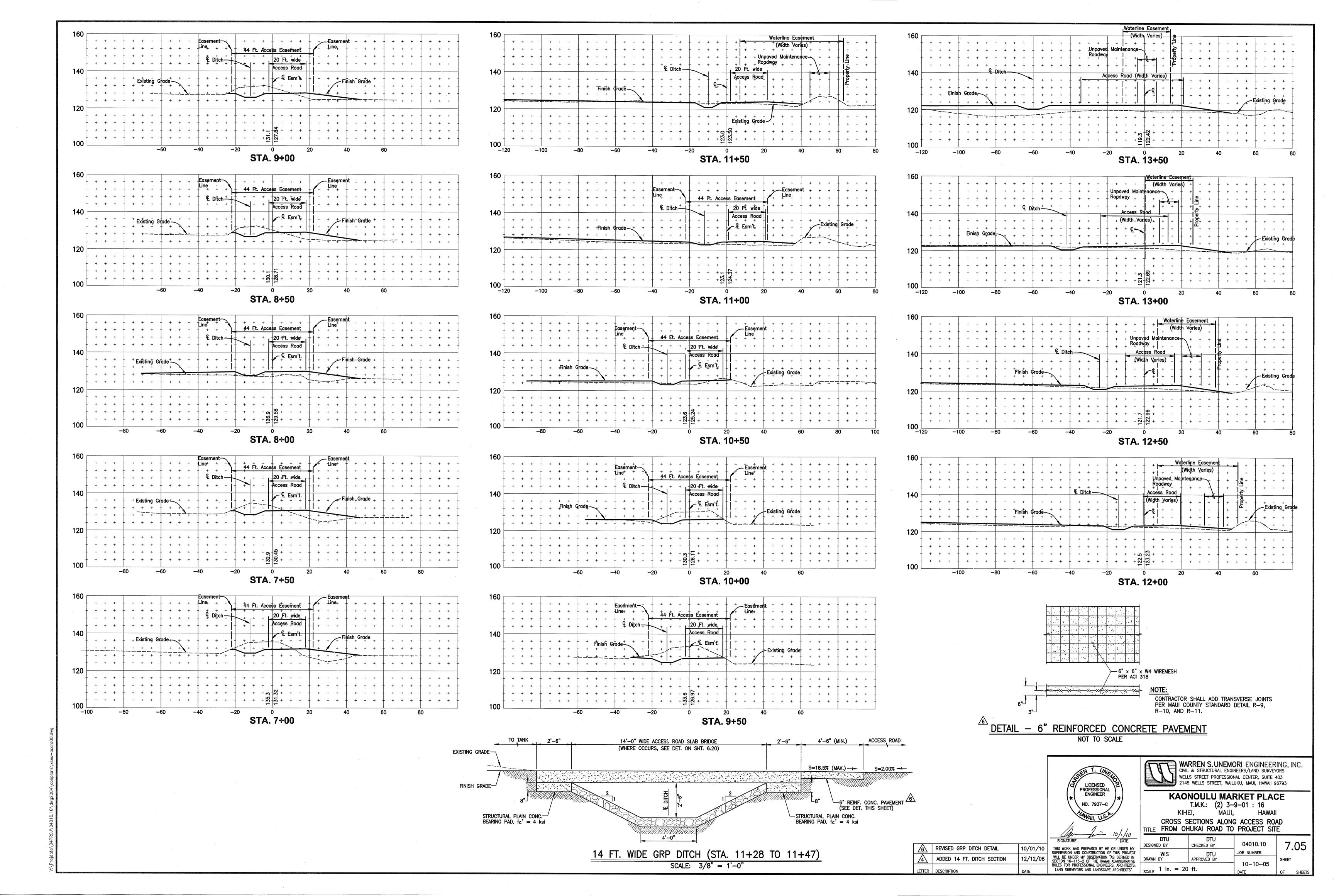


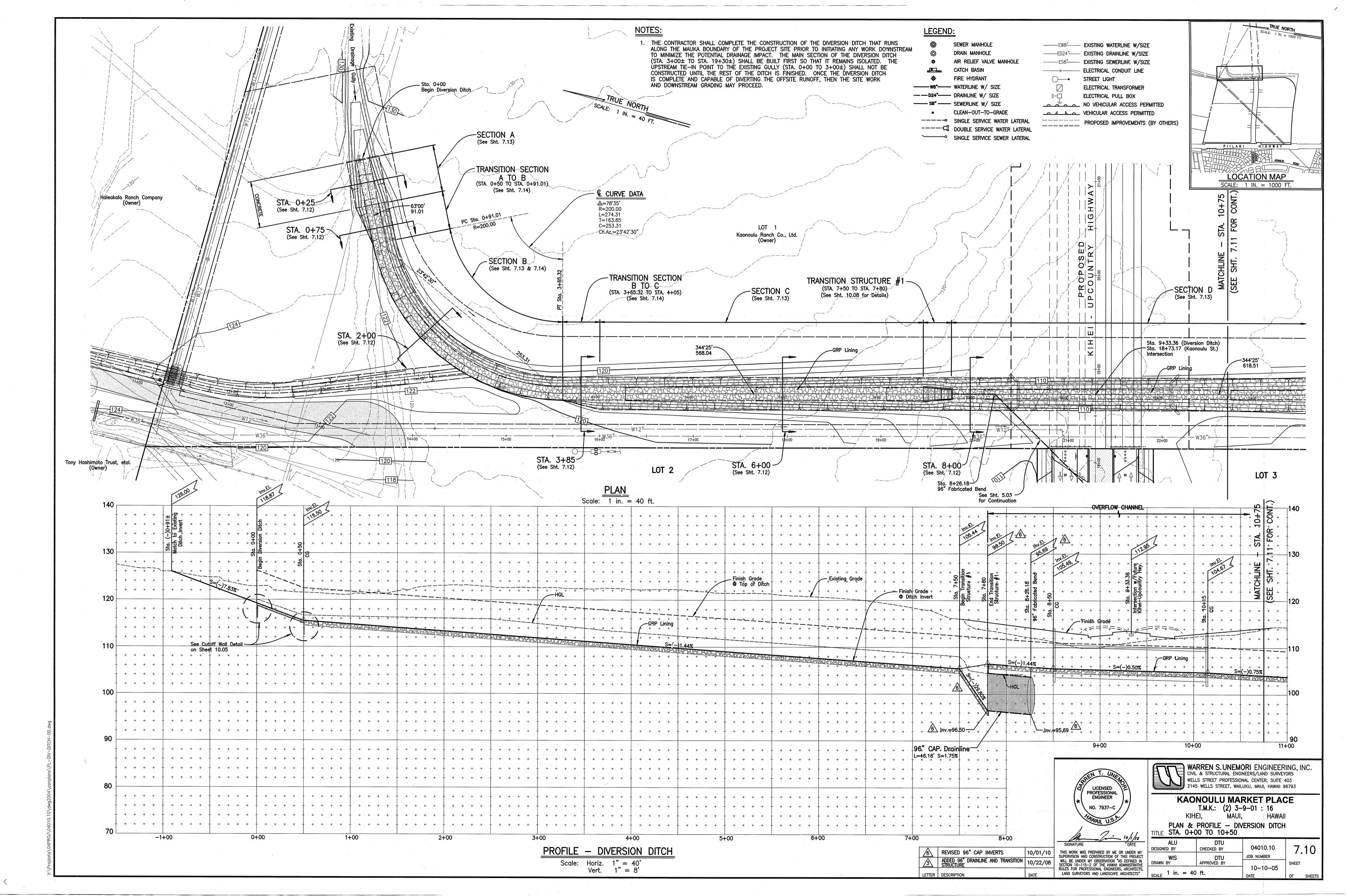


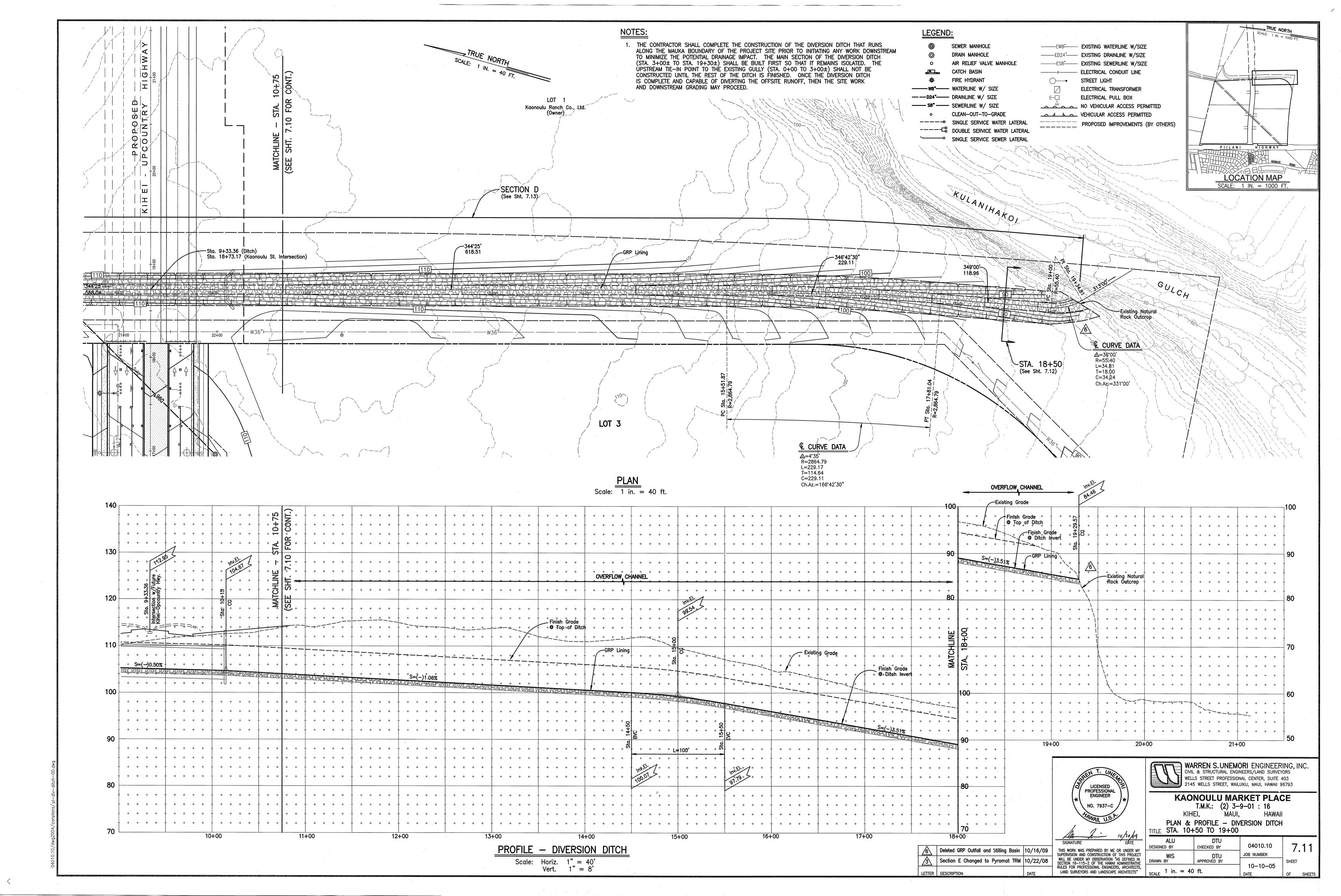


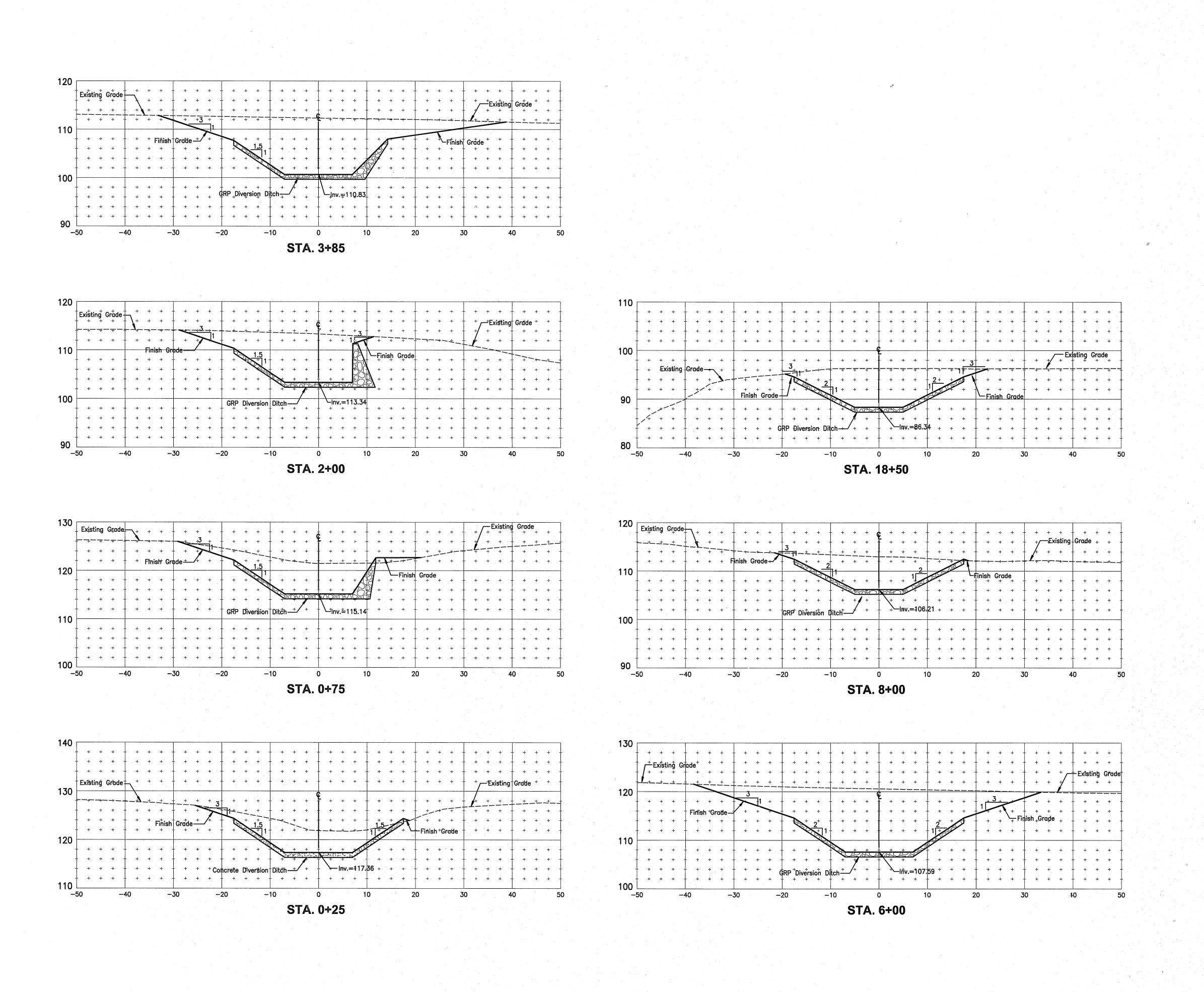


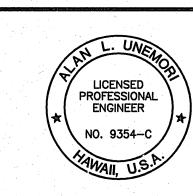












LAND SURVEYORS AND LANDS

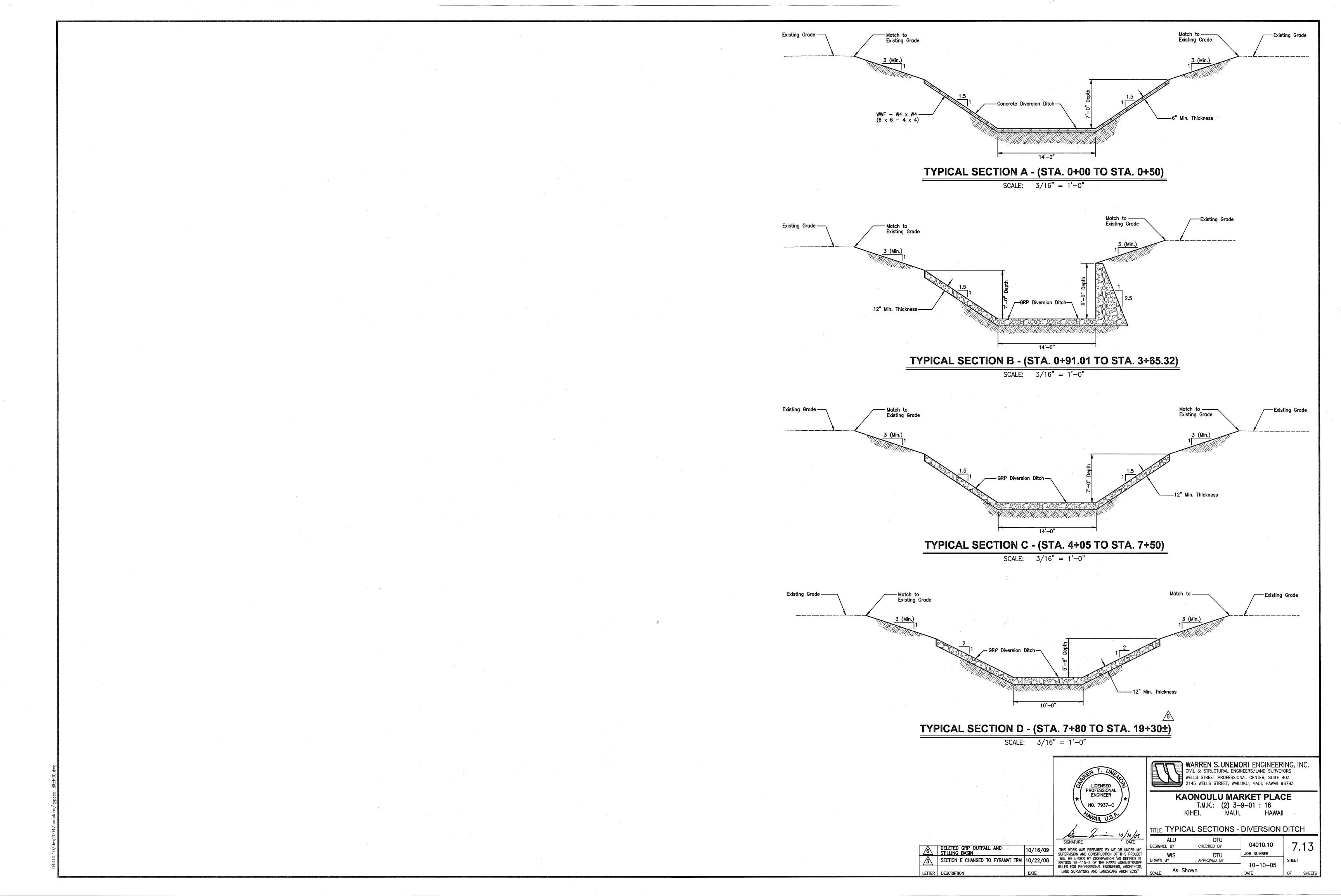
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

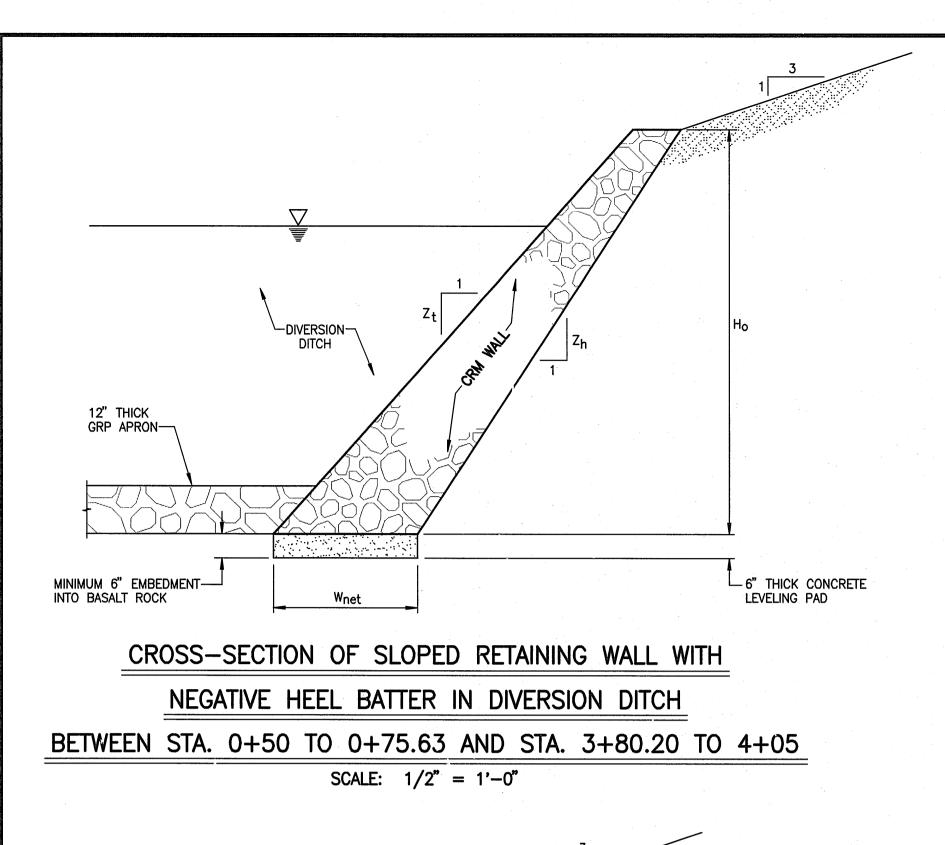
WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403

KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16 MAUI,

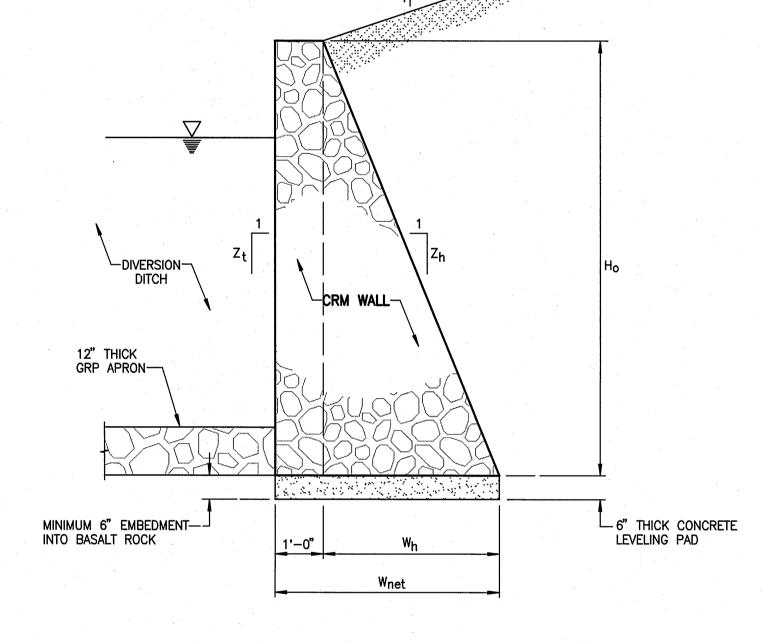
TITLE CROSS SECTIONS - DIVERSION DITCH

130/2008	age to receive the contribution of the compact of the contribution	tara tribuna fini kan mendenggangan digibir menghawan pamanan mahan paminan an maga sanawan pri	kige na statu i svota sasta Koga omajoja v Alakar je koji kili pomoto i gaji i u titika graja na gri uganoj jan	Market of the grown members are more and the co	
DATE	ALU DESIGNED BY	WSU CHECKED BY	04010.10	7	1
Y ME OR UNDER MY ON OF THIS PROJECT	WIS	WSU	JOB NUMBER	' '	
TION *AS DEFINED IN HAWAII ADMINISTRATIVE	DRAWN BY	APPROVED BY	10 10 05	SHEET	
GINEERS, ARCHITECTS, SCAPE ARCHITECTS"	_{SCALE} 1 IN. = 10	FT.	10-10-05 DATE	OF	SH





12" THICK GRP APRON— 6" THICK CONCRETE LEVELING PAD



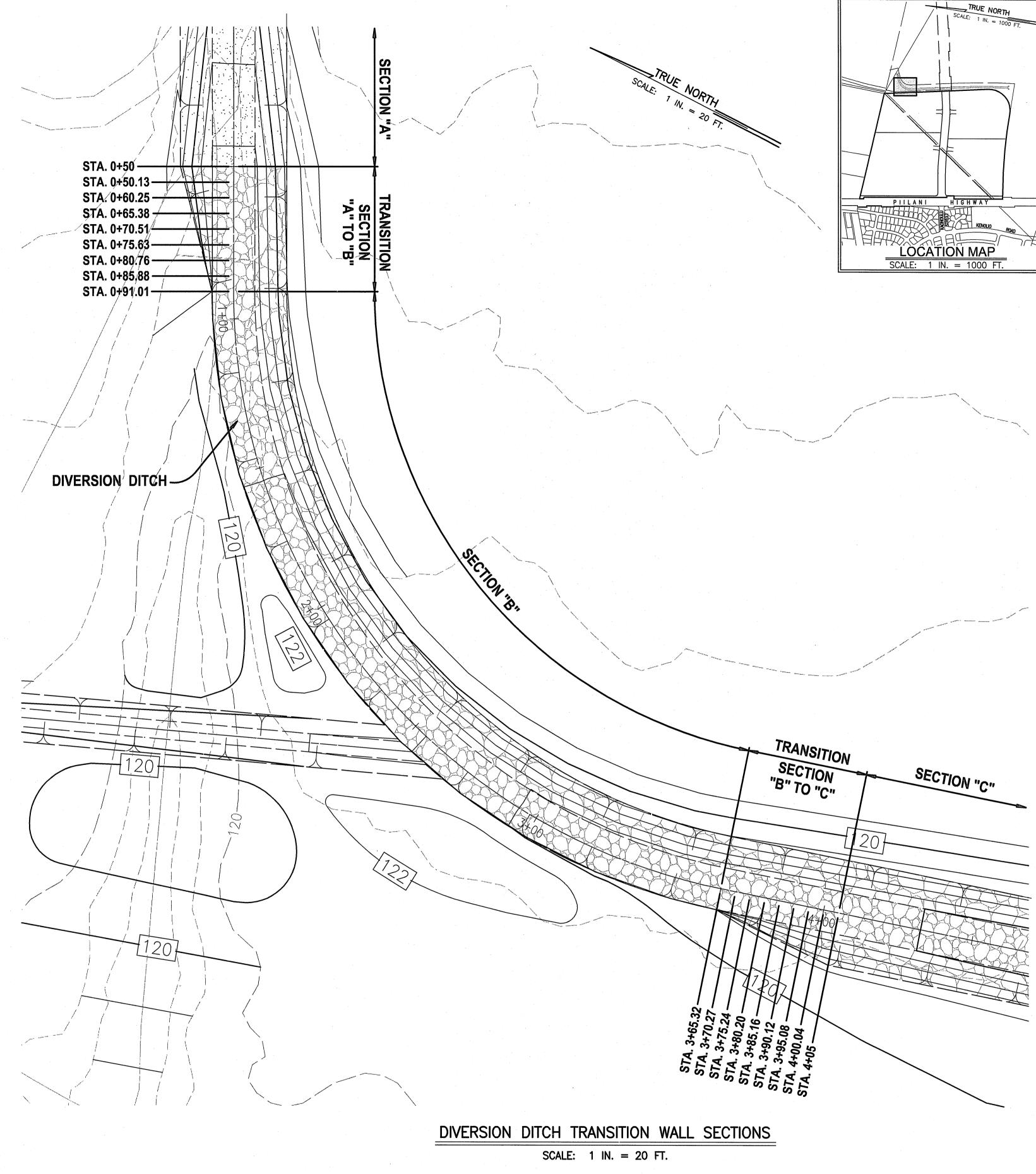
CROSS-SECTION OF SLOPED FACE RETAINING WALL IN DIVERSION DITCH BETWEEN STA. 0+80.76 TO 0+91.01

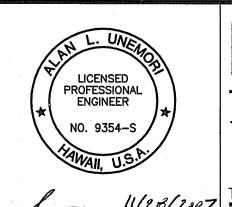
AND STA. 3+65.32 TO 3+75.24

CROSS-SECTION OF VERTICAL FACED RETAINING WALL IN DIVERSION DITCH STA. 0+91.01 TO 3+65.32 SCALE: 1/2" = 1'-0"

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

Sta	Wall Height, Ho (ft)	Toe Width	Toe Batter, Zt	Heel Batter, Zh*	Wt	Wh	Leveling Pad Width, Wnet (ft)
0+50	8.00	12.00	0.67	(0.67)	N/A	N/A	1'-2"
0+55.13	8.13	10.50	0.77	(0.85)	N/A	N/A	2'-0"
0+60.25	8.25	9.00	0.92	(1.10)	N/A	N/A	2'-6"
0+65.38	8.38	7.50	1.12	(1.53)	N/A	N/A	3'-0"
0+70.51	8.50	6.00	1.42	(2.50)	N/A	N/A	3'-7"
0+75.63	8.63	4.50	1.92	(7.00)	N/A	N/A	4'-3"
0+80.76	8.75	3.00	2.92	25.00	3'-0"	4"	4'-4"
0+85.88	8.88	1.50	5.92	4.75	1'-6"	1'-10"	4'-4"
0+91.01	9.00	0.00	100.00	2.50	0	3'-8"	4'-8"
3+65.32	9.00	0.00	100.00	2.50	0	3'-8"	4'-8"
3+70.27	8.88	1.50	5.92	4.75	1'-6"	1'-10"	4'-4"
3+75.24	8.75	3.00	2.92	25.00	3'-0"	4"	4'-4"
3+80.20	8.63	4.50	1.92	(7.00)	N/A	N/A	4'-3"
3+85.16	8.50	6.00	1.42	(2.50)	N/A	N/A	3'-7"
3+90.12	8.38	7.50	1.12	(1.53)	N/A	N/A	3'-0"
3+95.08	8.25	9.00	0.92	(1.10)	N/A	N/A	2'-6"
4+00.04	8.13	10.50	0.77	(0.85)	N/A	N/A	2'-0"
4+05	8.00	12.00	0.67	(0.67)	N/A	N/A	1'-2"





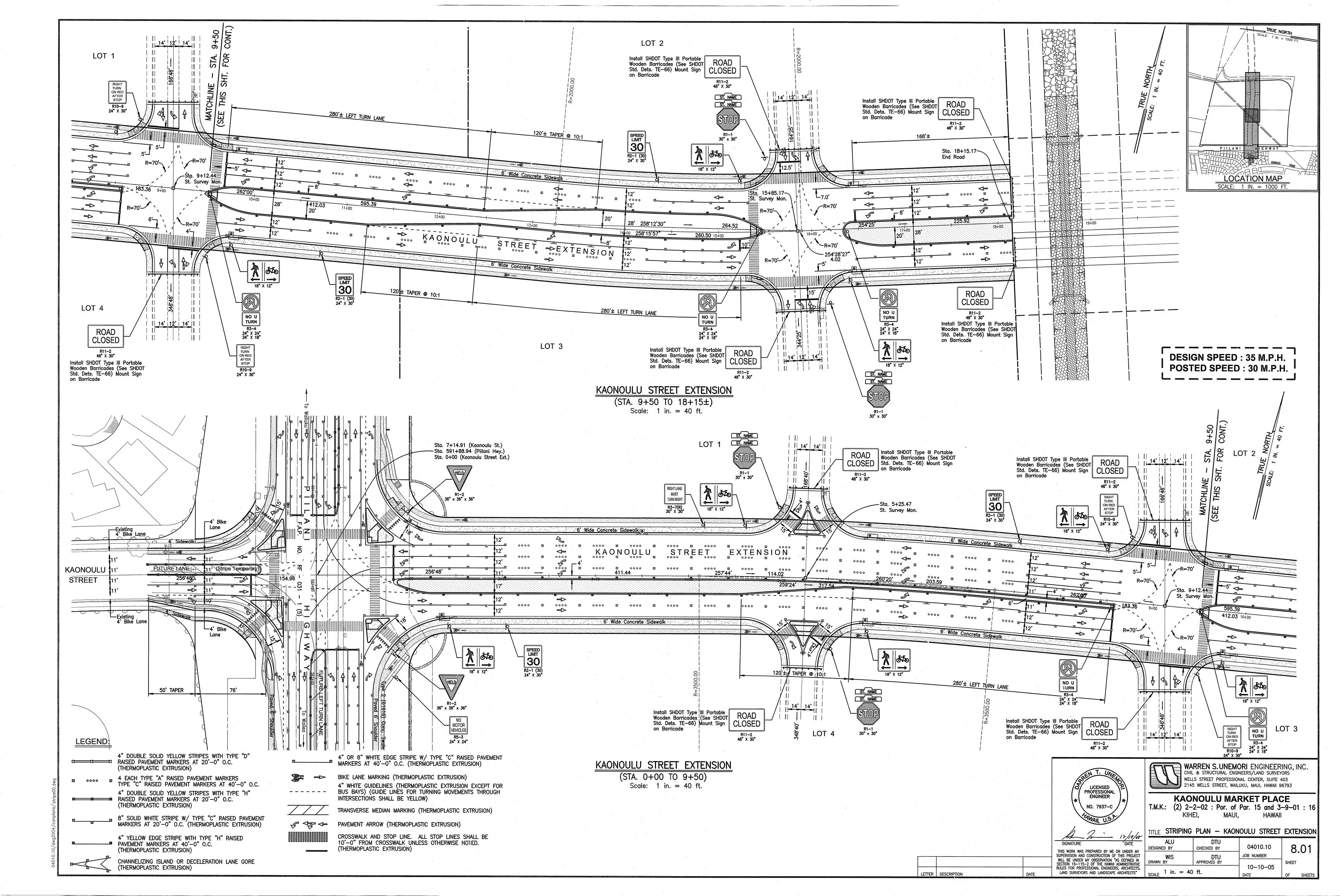
WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

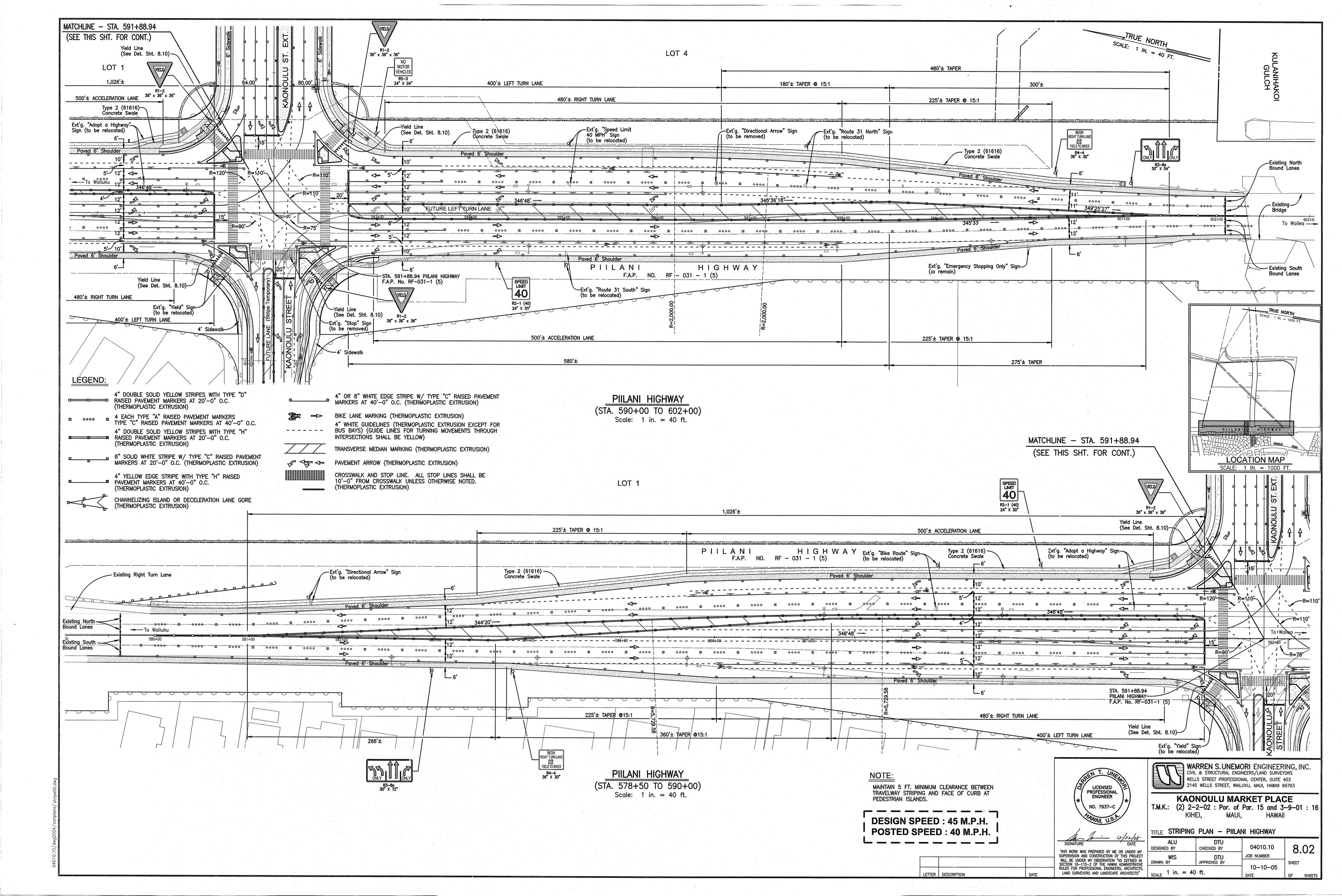
KAONOULU MARKET PLACE

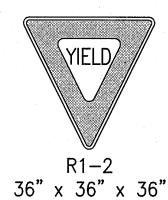
T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16
KIHEI, MAUI, HAWAII TITLE DIVERSION DITCH TRANSITION WALL SECTIONS

CHECKED BY 10-10-05

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BF. UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

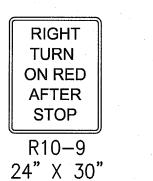








18" X 12"

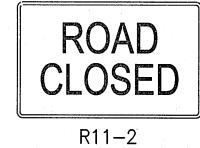


RIGHT LANE

MUST

TURN RIGHT

R3-7(R) 30" X 30"



48" X 30"

SPEED

LIMIT

30

30 MPH SPEED

LIMIT SIGN R2-1

24" X 30"

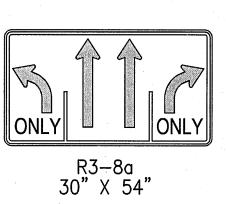
"PAINTED ON" TRAFFIC SIGNS WILL NOT BE PERMITTED.

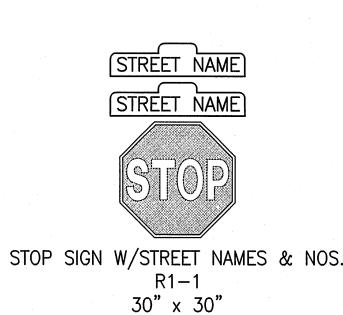
NOTE:

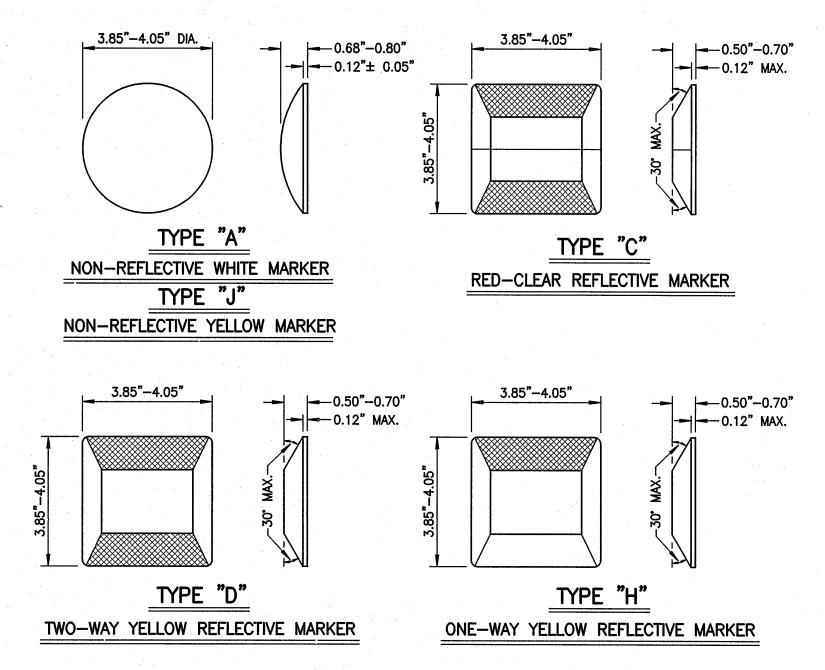




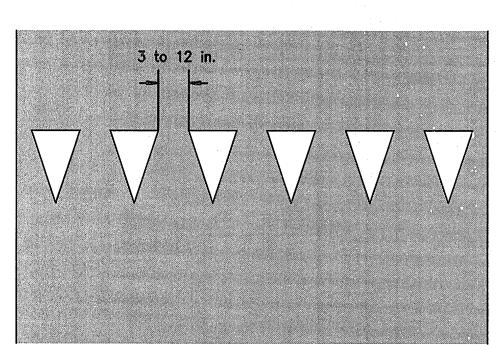


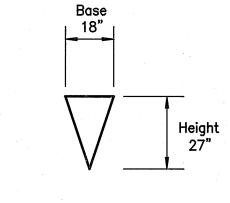






RAISED PAVEMENT MARKER DETAILS NOT TO SCALE





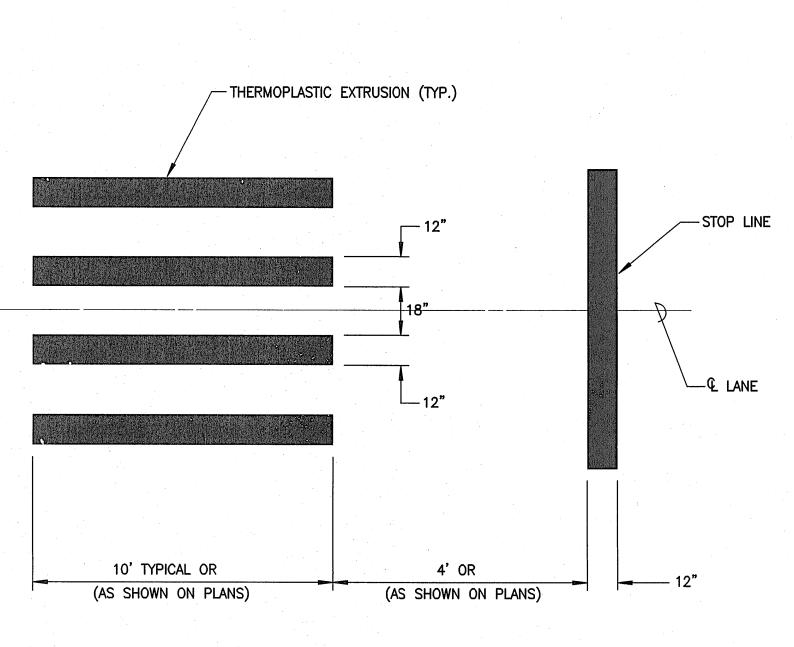
NOTES:

- 1. TRIANGLE HEIGHT IS EQUAL TO 1.5 TIMES THE BASE DIMENSION.
- 2. YIELD LINES MAY BE SMALLER THEN SUGGESTED WHEN INSTALLED ON NARROWER, SLOW-SPEED FACILITIES SUCH AS SHARED-USE PATHS.

DETAIL - YIELD LINE LAYOUT NOT TO SCALE

GENERAL NOTES

- 1. SIGNS SHALL CONFORM TO THE LATEST EDITIONS OF FHWA PUBLICATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," "STANDARD ALPHABETS FOR HIGHWAY SIGNS," AND "STANDARD HIGHWAY SIGNS," AND AS AMENDED.
- 2. ALL SIGNS SHALL BE MADE OF HIGH INTENSITY REFLECTIVE SHEETING MATERIALS.
- 3. PAVEMENT WORDING SHALL CONFORM TO, DOT STANDARD PLAN TE-35.
- 4. ALL WORK AND MATERIALS REQUIRED TO COMPLETE THE AC PAVING, SIGNS, AND MARKINGS SHALL CONFORM TO THE REQUIREMENTS THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND PUBLIC WORKS CONSTRUCTION 1994".

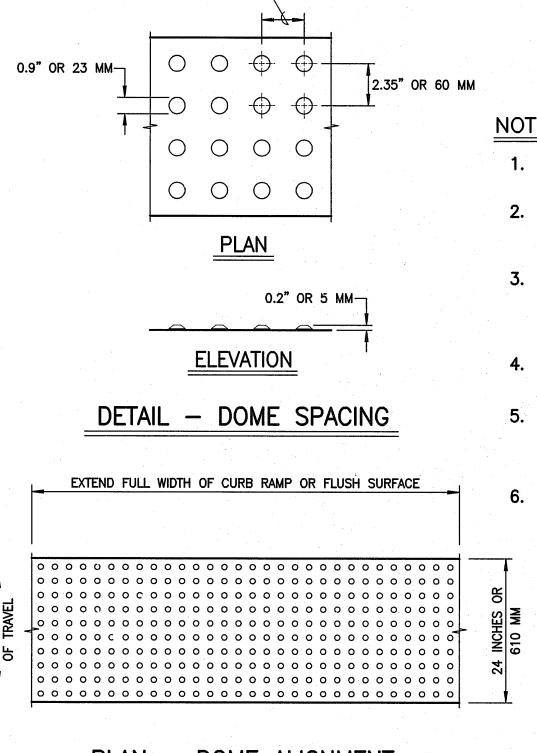


CROSSWALK STRIPING DETAIL

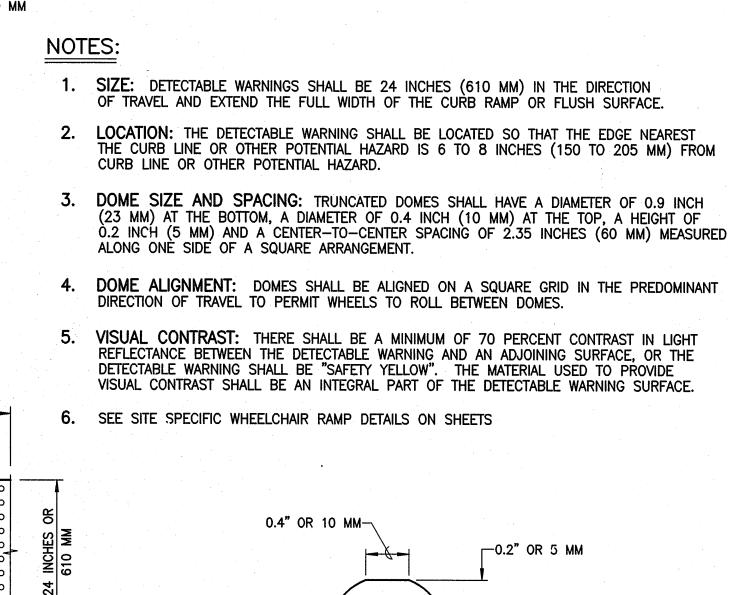
NOT TO SCALE

NOTES:

- 1. FOR LOCATION OF SIGNS AND MARKINGS AT INTERSECTION, SEE INTERSECTION DETAILS.
- 2. ALL SIGNS AND PAVEMENT MARKINGS AND STRIPING, SHALL CONFORM TO THE LATEST EDITION OF THE U.S. DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION PUBLICATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS", AND AS AMENDED.
- 3. ALL CONSTRUCTION WORK AND MATERIALS SHALL CONFORM TO THE LATEST REVISION OF THE STANDARD DETAIL DRAWINGS AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND PUBLIC WORK CONSTRUCTION.
- 4. LAYOUT OF PAVEMENT MARKINGS AND STRIPING SHALL BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL CHECK LAYOUT OF MARKINGS AND STRIPING WITH THE STATE OF HAWAII PRIOR TO PERFORMING WORK.
- 5. EDGE LINES SHALL NOT BE CONTINUED THROUGH INTERSECTIONS UNLESS OTHERWISE SHOWN OR DIRECTED.
- 6. ALL EXISTING STRIPING SHALL BE ERADICATED BY GRINDING.



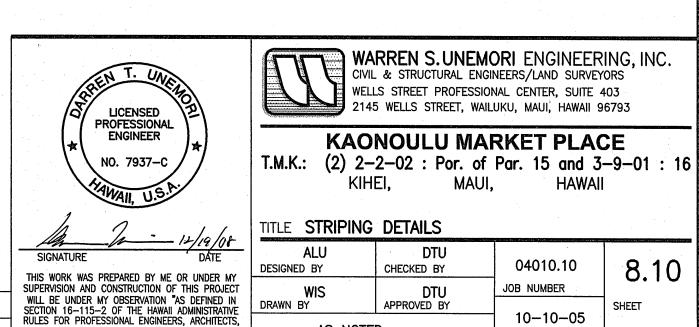
PLAN - DOME ALIGNMENT



DETAIL - DETECTABLE WARNING ON CURB RAMPS

LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

NOT TO SCALE

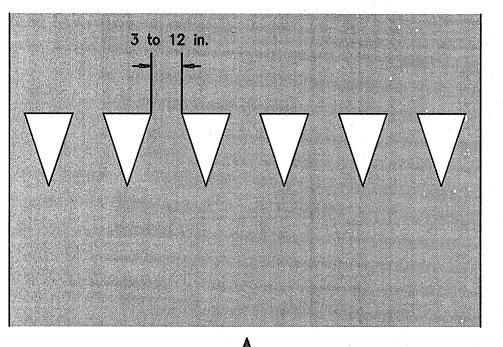


AS NOTED

SHEET

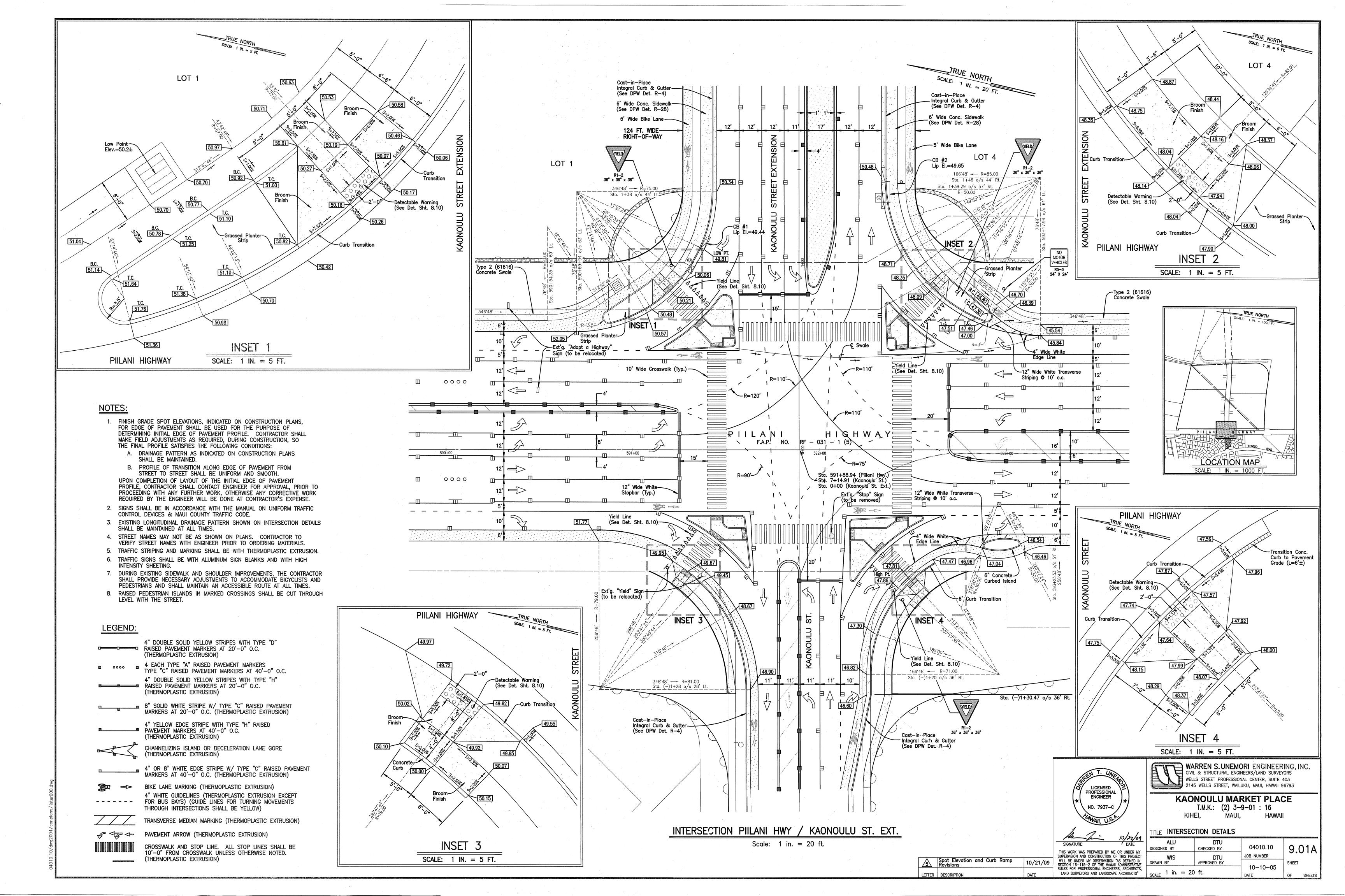
10-10-05

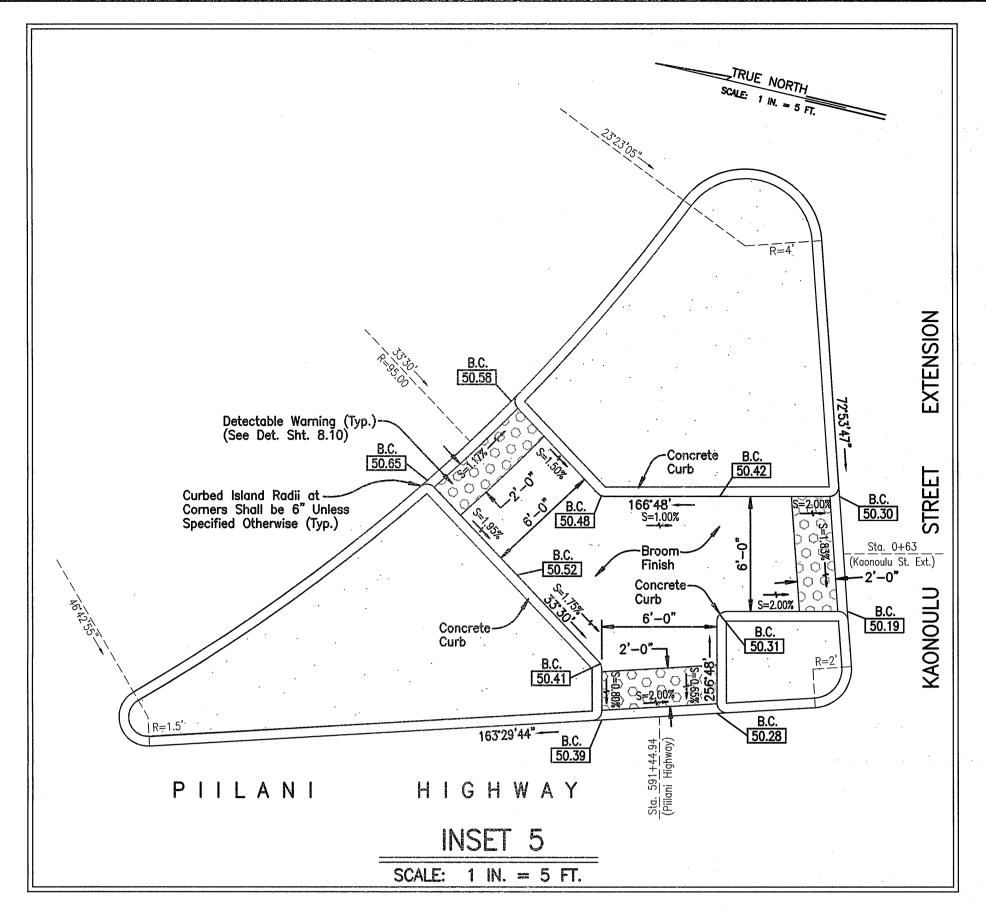
SECTION - TYPICAL DOME

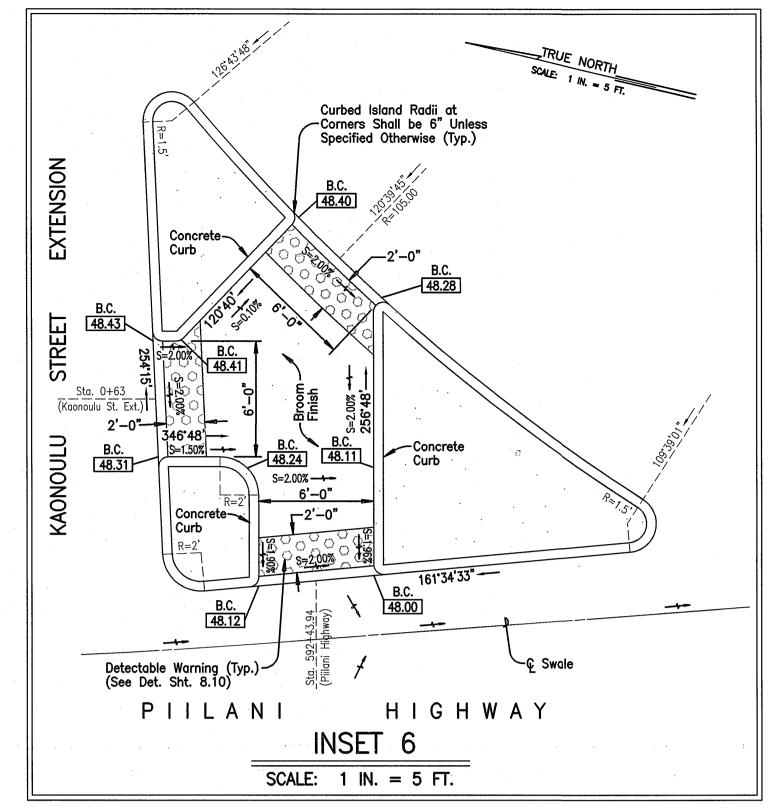


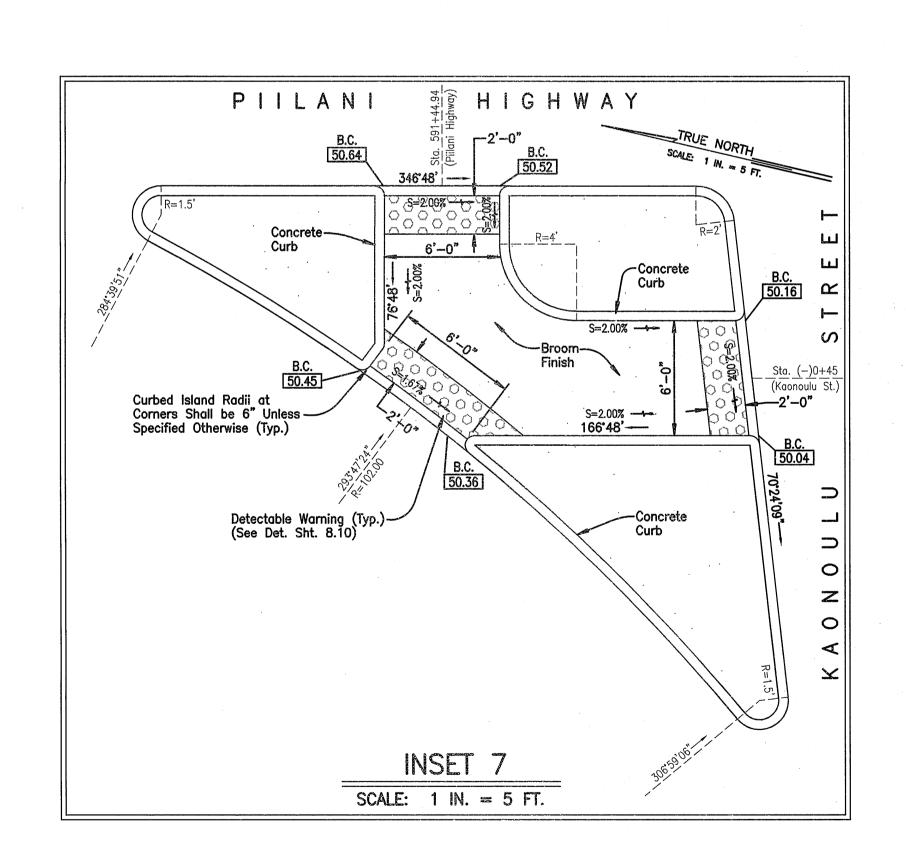


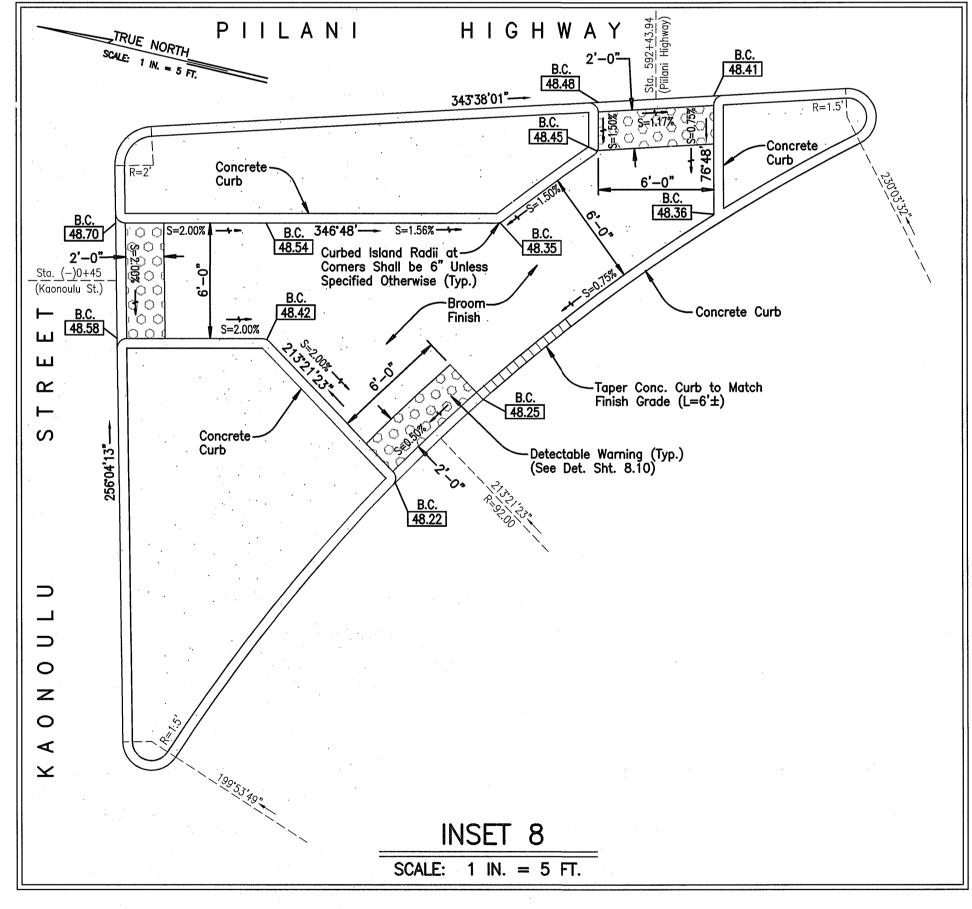


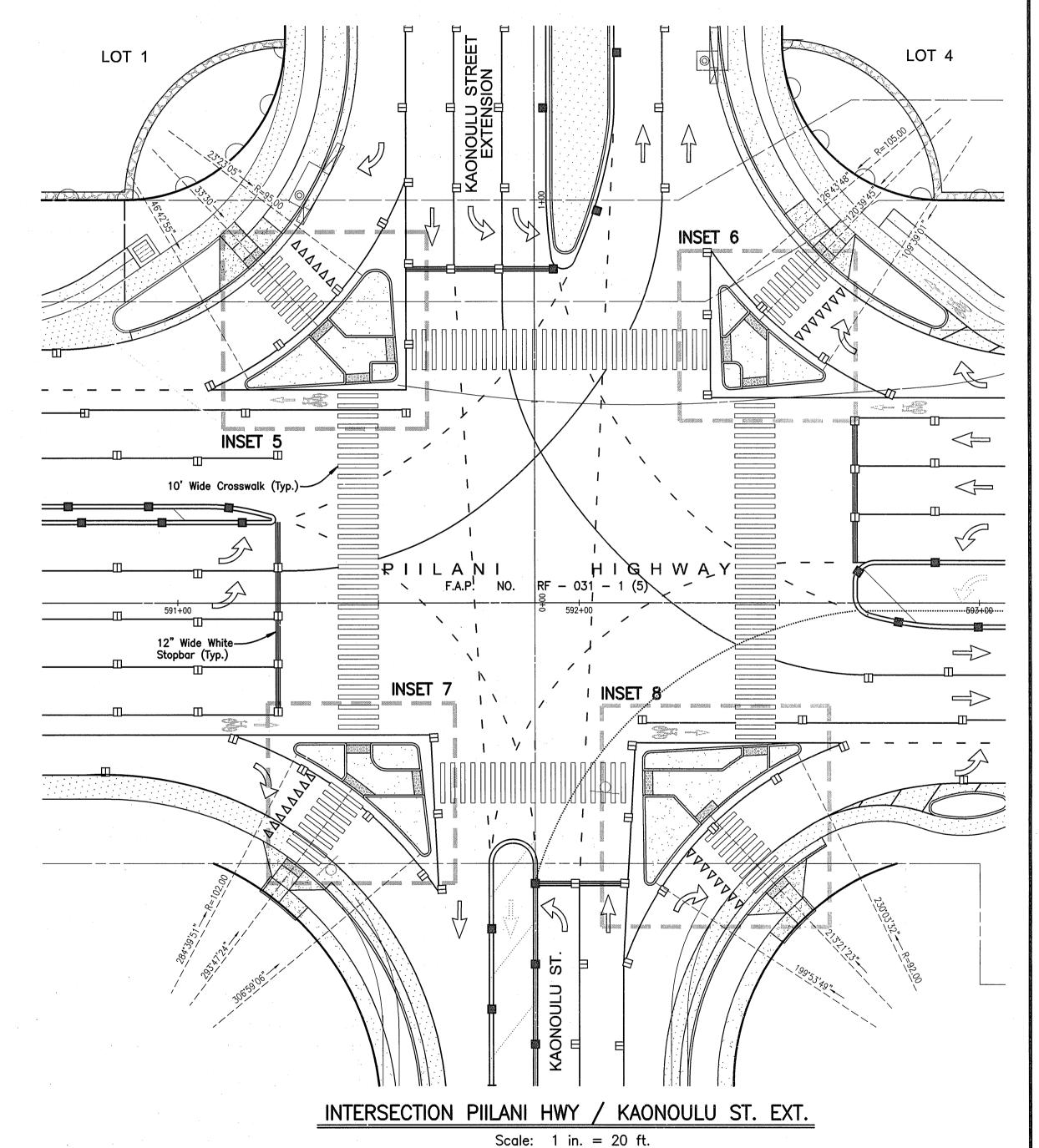












LEGEND:

4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "D" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)

4 EACH TYPE "A" RAISED PAVEMENT MARKERS TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C. 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "H" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)

8" SOLID WHITE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)

CHANNELIZING ISLAND OR DECELERATION LANE GORE

4" YELLOW EDGE STRIPE WITH TYPE "H" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)

(THERMOPLASTIC EXTRUSION)

4" OR 8" WHITE EDGE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)

BIKE LANE MARKING (THERMOPLASTIC EXTRUSION) 4" WHITE GUIDELINES (THERMOPLASTIC EXTRUSION EXCEPT FOR BUS BAYS) (GUIDE LINES FOR TURNING MOVEMENTS THROUGH INTERSECTIONS SHALL BE YELLOW)

TRANSVERSE MEDIAN MARKING (THERMOPLASTIC EXTRUSION)

PAVEMENT ARROW (THERMOPLASTIC EXTRUSION).

078 578 400 MM FOR 678 UITS

& A.

CROSSWALK AND STOP LINE. ALL STOP LINES SHALL BE 10'-0" FROM CROSSWALK UNLESS OTHERWISE NOTED. (THERMOPLASTIC EXTRUSION)

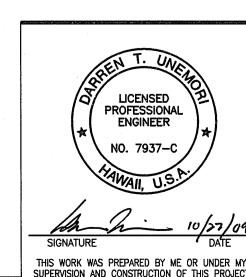
NOTES:

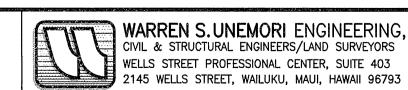
- FINISH GRADE SPOT ELEVATIONS, INDICATED ON CONSTRUCTION PLANS, FOR EDGE OF PAVEMENT SHALL BE USED FOR THE PURPOSE OF DETERMINING INITIAL EDGE OF PAVEMENT PROFILE. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS REQUIRED, DURING CONSTRUCTION, SO THE FINAL PROFILE SATISFIES THE FOLLOWING CONDITIONS:
 - A. DRAINAGE PATTERN AS INDICATED ON CONSTRUCTION PLANS SHALL BE MAINTAINED.
- B. PROFILE OF TRANSITION ALONG EDGE OF PAVEMENT FROM STREET TO STREET SHALL BE UNIFORM AND SMOOTH. UPON COMPLETION OF LAYOUT OF THE INITIAL EDGE OF PAVEMENT PROFILE, CONTRACTOR SHALL CONTACT ENGINEER FOR APPROVAL, PRIOR TO PROCEEDING WITH ANY FURTHER WORK, OTHERWISE ANY CORRECTIVE WORK REQUIRED BY THE ENGINEER WILL BE DONE AT CONTRACTOR'S EXPENSE.
- 2. SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & MAUI COUNTY TRAFFIC CODE.

3. EXISTING LONGITUDINAL DRAINAGE PATTERN SHOWN ON INTERSECTION DETAILS

- SHALL BE MAINTAINED AT ALL TIMES. 4. STREET NAMES MAY NOT BE AS SHOWN ON PLANS. CONTRACTOR TO
- VERIFY STREET NAMES WITH ENGINEER PRIOR TO ORDERING MATERIALS.
- 5. TRAFFIC STRIPING AND MARKING SHALL BE WITH THERMOPLASTIC EXTRUSION.
- 6. TRAFFIC SIGNS SHALL BE WITH ALUMINUM SIGN BLANKS AND WITH HIGH INTENSITY SHEETING.
- 7. DURING EXISTING SIDEWALK AND SHOULDER IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE NECESSARY ADJUSTMENTS TO ACCOMMODATE BICYCLISTS AND

PEDESTRIANS AND SHALL MAINTAIN AN ACCESSIBLE ROUTE AT ALL TIMES. 8. RAISED PEDESTRIAN ISLANDS IN MARKED CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET.





WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403

LOCATION MAP

SCALE: 1 IN. = 1000 FT.

KAONOULU MARKET PLACE T.M.K.: (2) 3-9-01 : 16

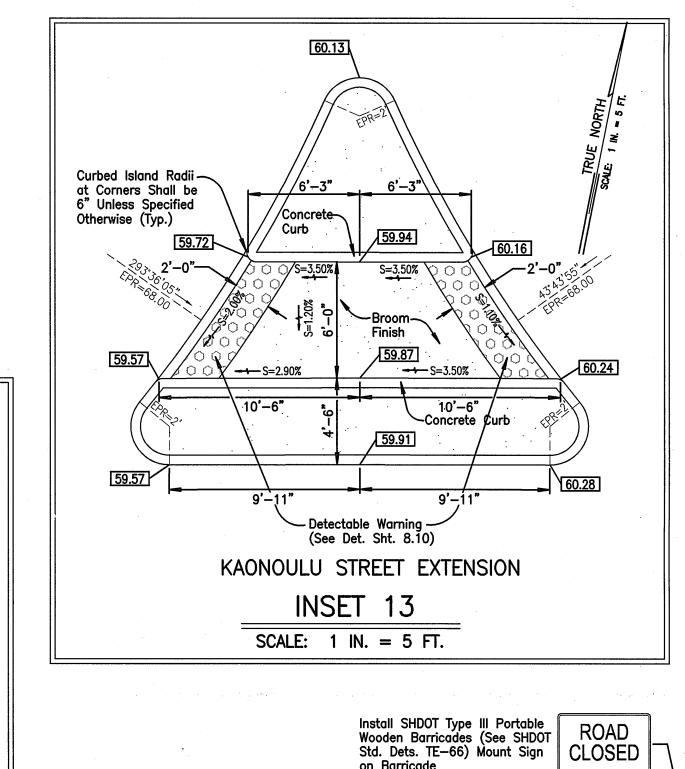
MAUI,

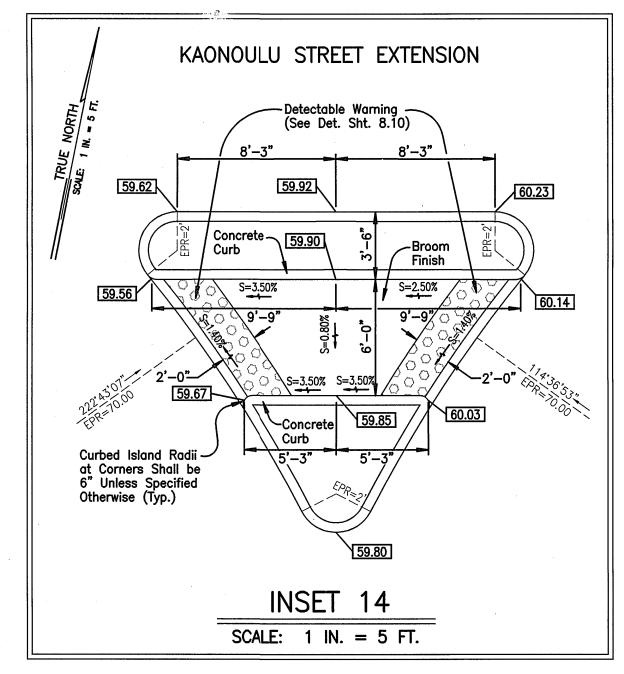
TITLE INTERSECTION DETAILS

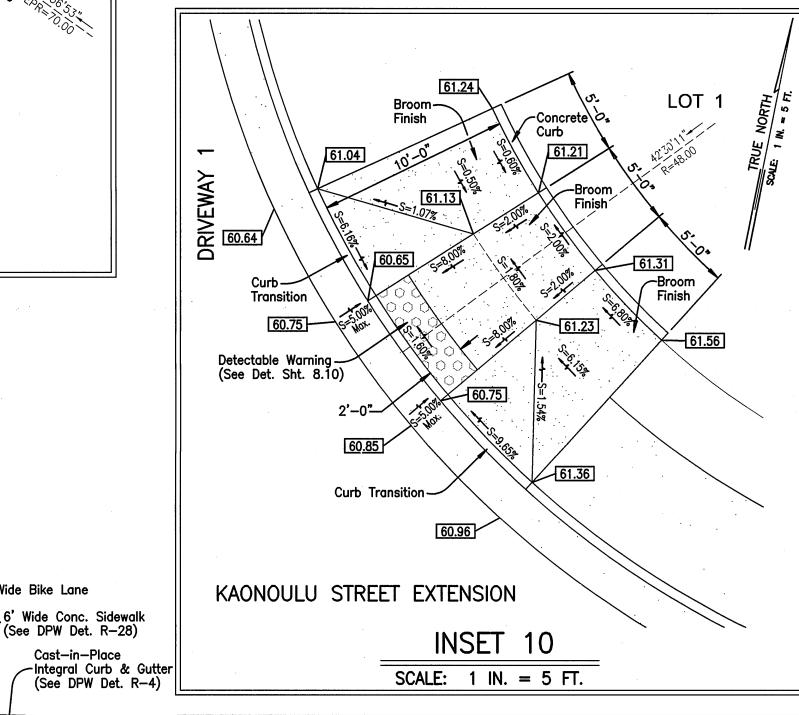
L U BY	DTU .	04010.10	9
'IS	DTU	JOB NUMBER	
	APPROVED BY		SHEET
		□ 10−10−05	1

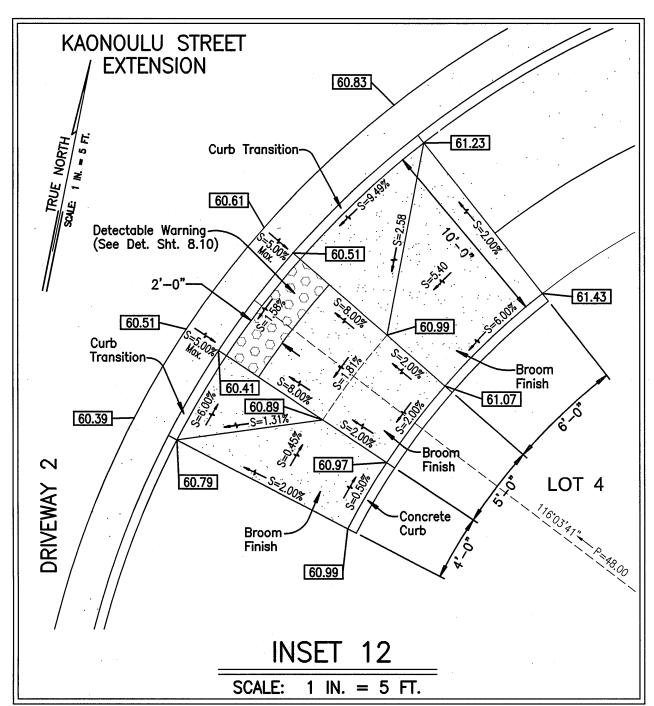
Spot Elevation and Curbed Island 10/21/09

SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, $|_{SCALE}$ 1 in. = 20 ft. LAND SURVEYORS AND LANDSCAPE ARCHITECTS"











- FINISH GRADE SPOT ELEVATIONS, INDICATED ON CONSTRUCTION PLANS, FOR EDGE OF PAVEMENT SHALL BE USED FOR THE PURPOSE OF DETERMINING INITIAL EDGE OF PAVEMENT PROFILE. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS REQUIRED, DURING CONSTRUCTION, SO THE FINAL PROFILE SATISFIES THE FOLLOWING CONDITIONS:
 - A. DRAINAGE PATTERN AS INDICATED ON CONSTRUCTION PLANS SHALL BE MAINTAINED.
 - B. PROFILE OF TRANSITION ALONG EDGE OF PAVEMENT FROM STREET TO STREET SHALL BE UNIFORM AND SMOOTH. UPON COMPLETION OF LAYOUT OF THE INITIAL EDGE OF PAVEMENT PROFILE, CONTRACTOR SHALL CONTACT ENGINEER FOR APPROVAL, PRIOR TO PROCEEDING WITH ANY FURTHER WORK, OTHERWISE ANY CORRECTIVE WORK REQUIRED BY THE ENGINEER WILL BE DONE AT CONTRACTOR'S EXPENSE.

TRUE NORTH

LOCATION MAP SCALE: 1 IN. = 1000 FT

- 2. SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & MAUI COUNTY TRAFFIC CODE.
- 3. EXISTING LONGITUDINAL DRAINAGE PATTERN SHOWN ON INTERSECTION DETAILS SHALL BE MAINTAINED AT ALL TIMES.
- 4. STREET NAMES MAY NOT BE AS SHOWN ON PLANS. CONTRACTOR TO VERIFY STREET NAMES WITH ENGINEER PRIOR TO ORDERING MATERIALS.
- 5. TRAFFIC STRIPING AND MARKING SHALL BE WITH THERMOPLASTIC EXTRUSION.
- 6. TRAFFIC SIGNS SHALL BE WITH ALUMINUM SIGN BLANKS AND WITH HIGH INTENSITY SHEETING.
- 7. DURING EXISTING SIDEWALK AND SHOULDER IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE NECESSARY ADJUSTMENTS TO ACCOMMODATE BICYCLISTS AND
- PEDESTRIANS AND SHALL MAINTAIN AN ACCESSIBLE ROUTE AT ALL TIMES. 8. RAISED PEDESTRIAN ISLANDS IN MARKED CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET.

LEGEND:

4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "D" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)

4 EACH TYPE "A" RAISED PAVEMENT MARKERS TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C. 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "H"

RAISED PAVEMENT MARKERS AT 20'-0" O.C.

(THERMOPLASTIC EXTRUSION) ___ 8" SOLID WHITE STRIPE W/ TYPE "C" RAISED PAVEMENT

MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION) 4" YELLOW EDGE STRIPE WITH TYPE "H" RAISED PAVEMENT MARKERS AT 40'-0" O.C.

(THERMOPLASTIC EXTRUSION)

CHANNELIZING ISLAND OR DECELERATION LANE GORE (THERMOPLASTIC EXTRUSION)

4" OR 8" WHITE EDGE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION) BIKE LANE MARKING (THERMOPLASTIC EXTRUSION)

4" WHITE GUIDELINES (THERMOPLASTIC EXTRUSION EXCEPT FOR BUS BAYS) (GUIDÈ LINES FOR TURNING MOVEMENTS THROUGH INTERSECTIONS SHALL BE YELLOW)

TRANSVERSE MEDIAN MARKING (THERMOPLASTIC EXTRUSION)

PAVEMENT ARROW (THERMOPLASTIC EXTRUSION)

CROSSWALK AND STOP LINE. ALL STOP LINES SHALL BE 10'-0" FROM CROSSWALK UNLESS OTHERWISE NOTED. (THERMOPLASTIC EXTRUSION)

LICENSED PROFESSIONA ENGINEER

WARREN S.UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE T.M.K.: (2) 3-9-01 : 16 HAWAII

MAUI, KIHEI,

TITLE INTERSECTION DETAILS ALU DTU 04010.10 CHECKED BY JOB NUMBER APPROVED BY SHEET

R1-1 30" x 30"

Cast-in-Place

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Andrey of the second

→ Cast-in-Place

-6' Wide Conc. Sidewalk (See DPW Det. R-28)

─ 5' Wide Bike Lane

Integral Curb & Gutter (See DPW Det. R-4)

Ⅲ —

Shill spilling

Cast-in-Place Integral Curb & Gutter-(See DPW Det. R-4) 6' Wide Conc. Sidewalk-(See DPW Det. R-28) 5' Wide Bike Lane-INSET MUST TURN RIGHT 124 FT. WIDE-RIGHT-OF-WAY Tomacas Remarks LOW PT. | INSET 10 \(\frac{10}{61.23} \) INSET 13 0000 0000 Ш 0000 0000 0000-KAONOULU EXTENSION 0000 0000 0000 0000 0000 -Sta. 5+25.47 Monument-St. Survey Mon. Sta. 4+11.44 0000 0000 0000 0000 0000 0000 0000 0000 0000-INSET 14 INSET 12 INSET 11 Committee # 5' Wide Bike Lane -Cast-in-Place Integral Curb & Gutter~ (See DPW Det. R-4) 59.57 59.28 6' Wide Conc. Sidewalk-59.85 (See DPW Det. R-28) 258'40' -- R=50.00

CLOSED

Install SHDOT Type III Portable Wooden Barricades (See SHDOT Std. Dets. TE-66) Mount Sign

(See Det. Sht. 8.10) Curb Transition 59.10 DRIVEWAY

59.72

(See Det. Sht. 8.10)

KAONOULU STREET EXTENSION

INSET 9

KAONOULU STREET EXTENSION

←Curb Transition

INSET 11

SCALE: 1 IN. = 5 FT.

SCALE: 1 IN. = 5 FT.

LOT 1

Curb

59.18

Curb

LOT 4

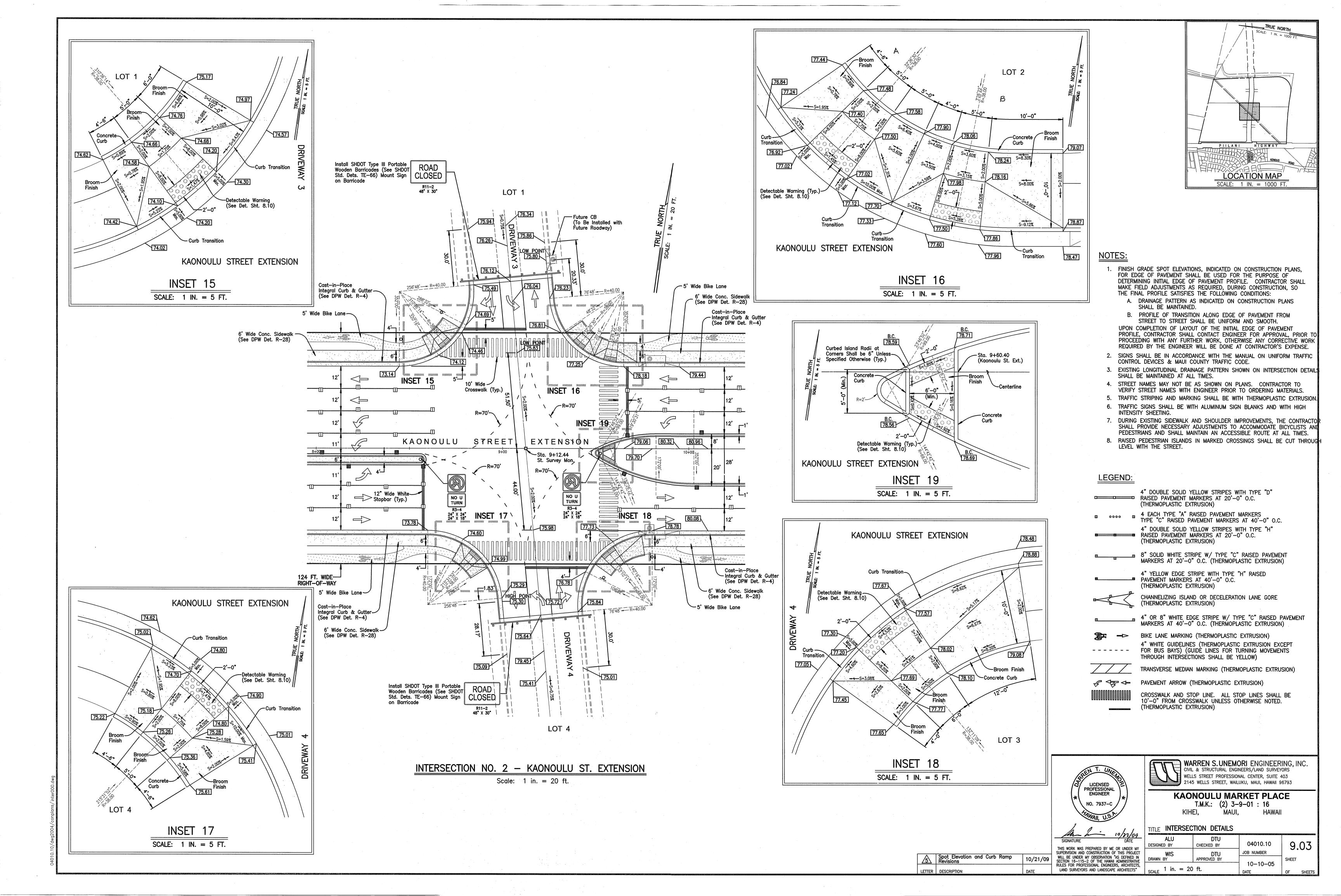
59.38

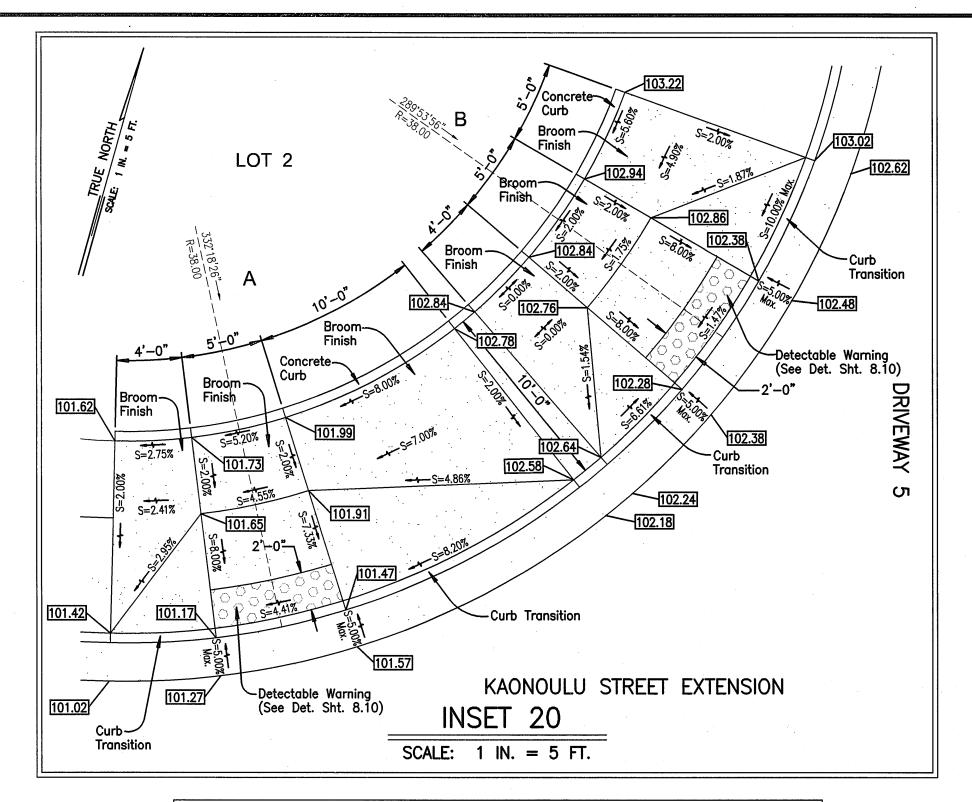
LOT 4 INTERSECTION NO. 1 - KAONOULU STREET EXTENSION Scale: 1 in. = 20 ft.

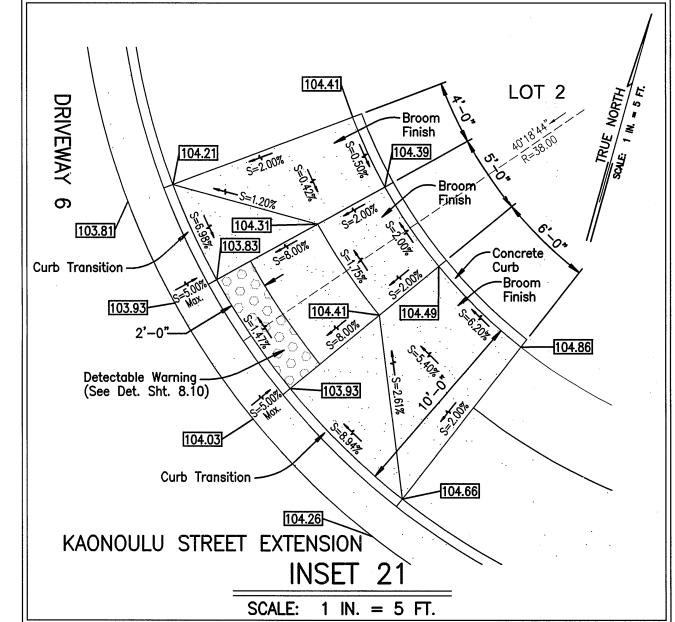
Spot Elevation and Curb Ramp 10/21/09

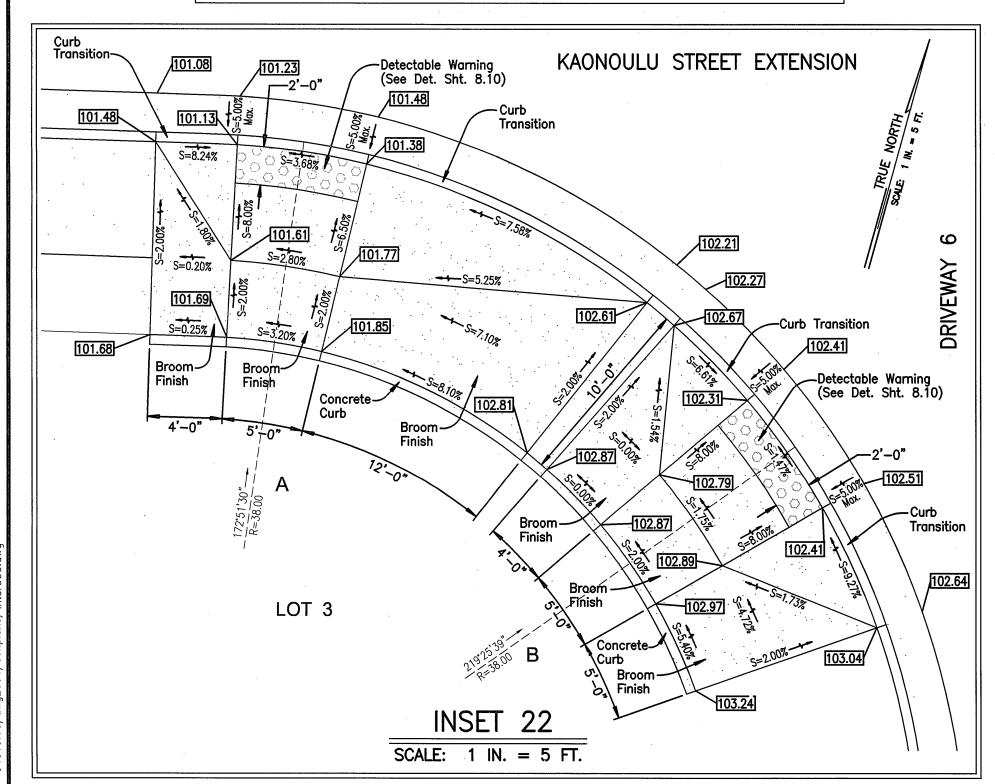
SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

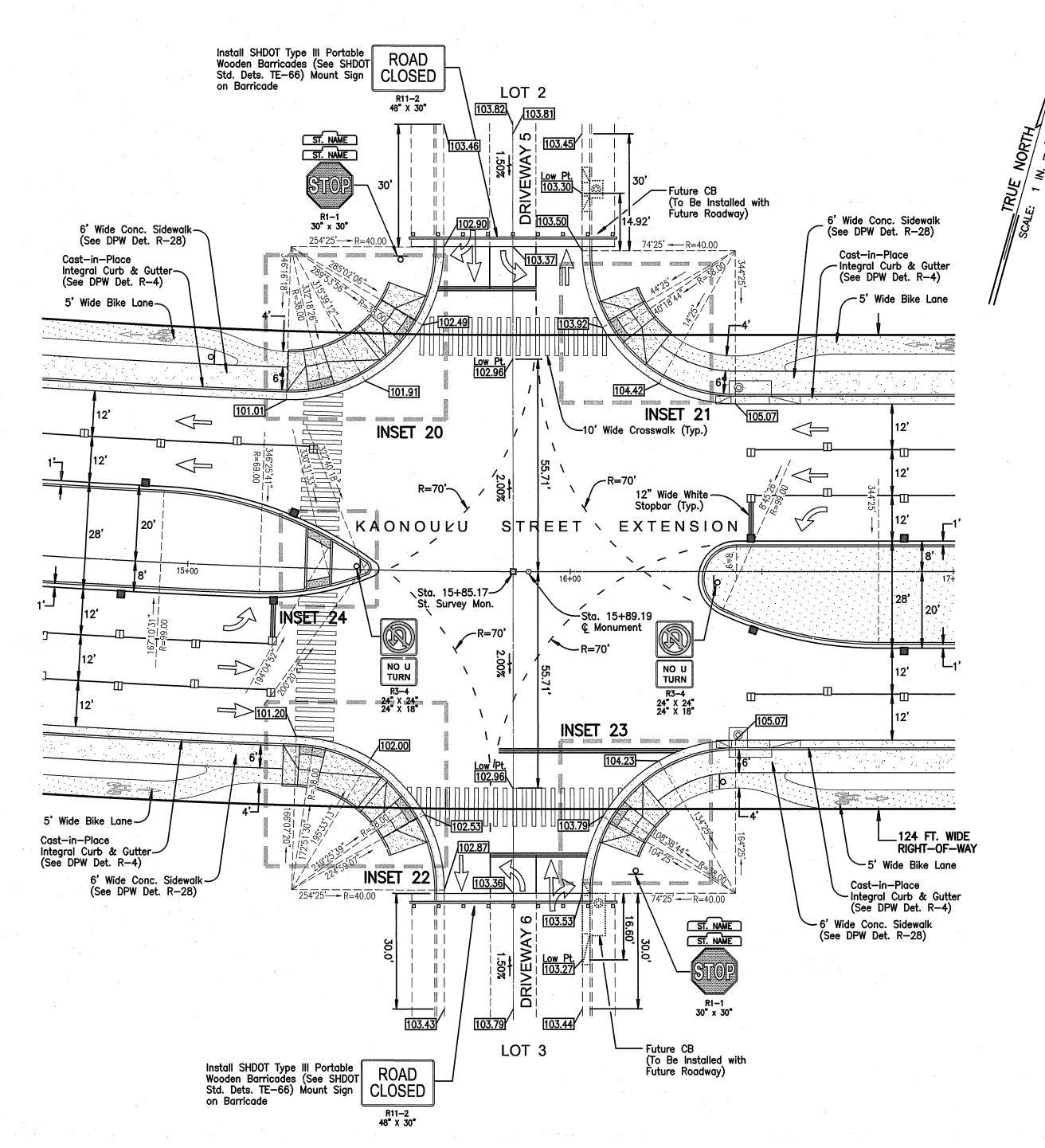
DESIGNED BY 10-10-05 $|_{SCALE}$ 1 in. = 20 ft.





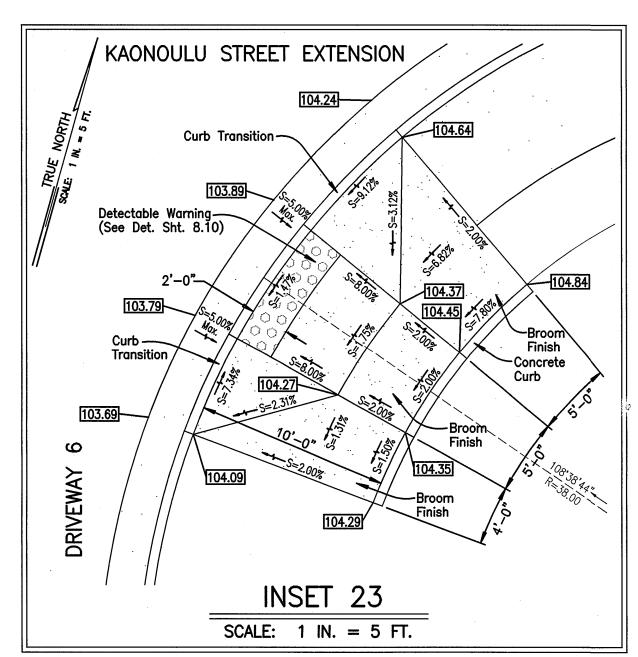


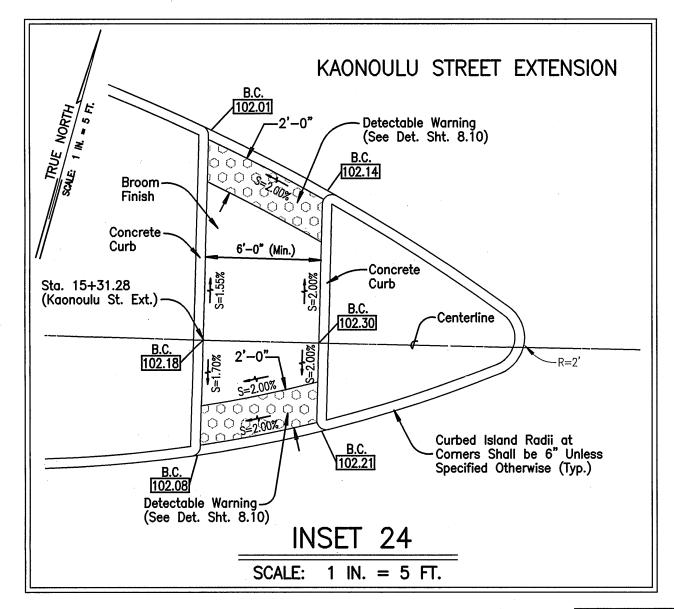




INTERSECTION NO. 3 - KAONOULU ST. EXTENSION

Scale: 1 in. = 20 ft.





NOTES:

- 1. FINISH GRADE SPOT ELEVATIONS, INDICATED ON CONSTRUCTION PLANS, FOR EDGE OF PAVEMENT SHALL BE USED FOR THE PURPOSE OF DETERMINING INITIAL EDGE OF PAVEMENT PROFILE. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS REQUIRED, DURING CONSTRUCTION, SO THE FINAL PROFILE SATISFIES THE FOLLOWING CONDITIONS:
 - A. DRAINAGE PATTERN AS INDICATED ON CONSTRUCTION PLANS SHALL BE MAINTAINED.

PILLANI

LOCATION MAP SCALE: 1 IN. = 1000 FT

TRUE NORTH

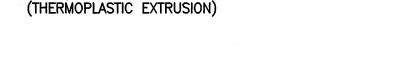
- B. PROFILE OF TRANSITION ALONG EDGE OF PAVEMENT FROM STREET TO STREET SHALL BE UNIFORM AND SMOOTH. UPON COMPLETION OF LAYOUT OF THE INITIAL EDGE OF PAVEMENT PROFILE, CONTRACTOR SHALL CONTACT ENGINEER FOR APPROVAL, PRIOR TO PROCEEDING WITH ANY FURTHER WORK, OTHERWISE ANY CORRECTIVE WORK REQUIRED BY THE ENGINEER WILL BE DONE AT CONTRACTOR'S EXPENSE.
- 2. SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & MAUI COUNTY TRAFFIC CODE.
- 3. EXISTING LONGITUDINAL DRAINAGE PATTERN SHOWN ON INTERSECTION DETAILS SHALL BE MAINTAINED AT ALL TIMES.
- 4. STREET NAMES MAY NOT BE AS SHOWN ON PLANS. CONTRACTOR TO VERIFY STREET NAMES WITH ENGINEER PRIOR TO ORDERING MATERIALS.
- 5. TRAFFIC STRIPING AND MARKING SHALL BE WITH THERMOPLASTIC EXTRUSION.
- 6. TRAFFIC SIGNS SHALL BE WITH ALUMINUM SIGN BLANKS AND WITH HIGH INTENSITY SHEETING.
- 7. DURING EXISTING SIDEWALK AND SHOULDER IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE NECESSARY ADJUSTMENTS TO ACCOMMODATE BICYCLISTS AND PEDESTRIANS AND SHALL MAINTAIN AN ACCESSIBLE ROUTE AT ALL TIMES.
- 8. RAISED PEDESTRIAN ISLANDS IN MARKED CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET.

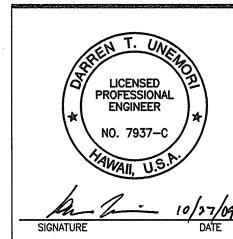
LEGEND:

- 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "D" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
- # 4 EACH TYPE "A" RAISED PAVEMENT MARKERS TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C. 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "H" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
- m 8" SOLID WHITE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
- 4" YELLOW EDGE STRIPE WITH TYPE "H" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)
- CHANNELIZING ISLAND OR DECELERATION LANE GORE (THERMOPLASTIC EXTRUSION)
 - 4" OR 8" WHITE EDGE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)
- BIKE LANE MARKING (THERMOPLASTIC EXTRUSION) 4" WHITE GUIDELINES (THERMOPLASTIC EXTRUSION EXCEPT ---- FOR BUS BAYS) (GUIDÈ LINES FOR TURNING MOVEMENTS
 - TRANSVERSE MEDIAN MARKING (THERMOPLASTIC EXTRUSION)

THROUGH INTERSECTIONS SHALL BE YELLOW)

- PAVEMENT ARROW (THERMOPLASTIC EXTRUSION)
 - CROSSWALK AND STOP LINE. ALL STOP LINES SHALL BE 10'-0" FROM CROSSWALK UNLESS OTHERWISE NOTED.







WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

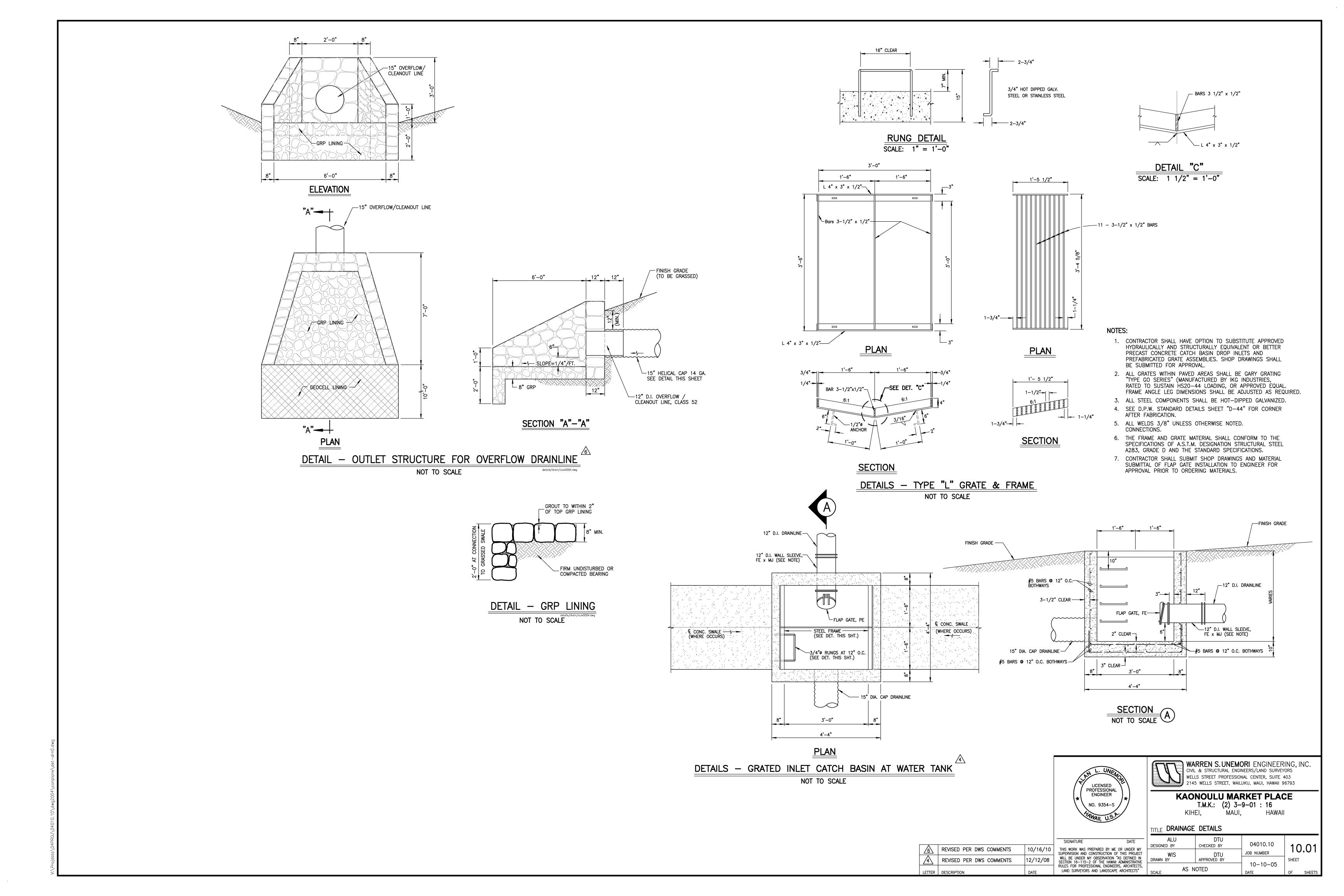
KAONOULU MARKET PLACE T.M.K.: (2) 3-9-01 : 16 MAUI, KIHEI,

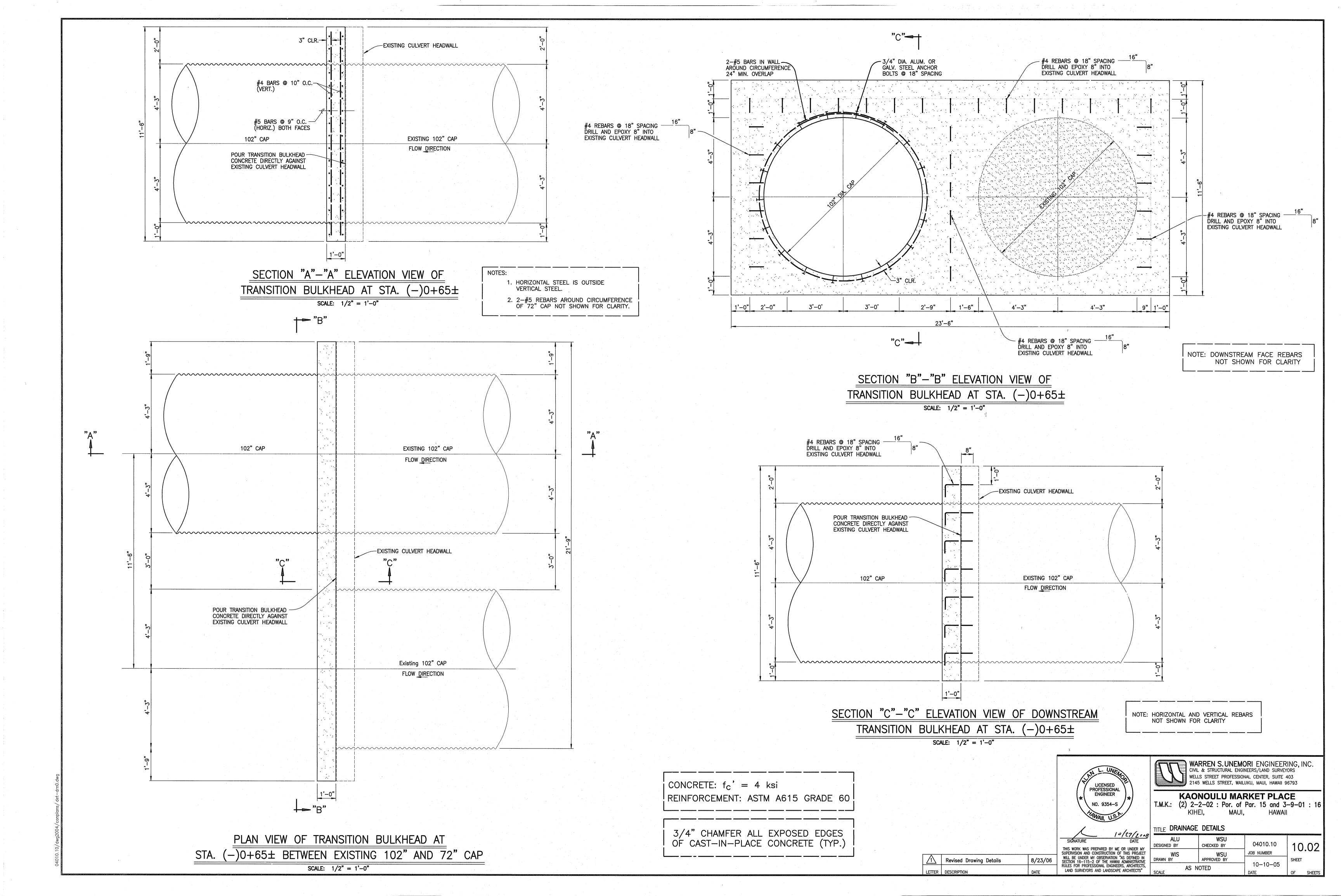
TITLE INTERSECTION DETAILS 04010.10 CHECKED BY DESIGNED BY JOB NUMBER APPROVED BY 10-10-05 $_{SCALE}$ 1 in. = 20 ft.

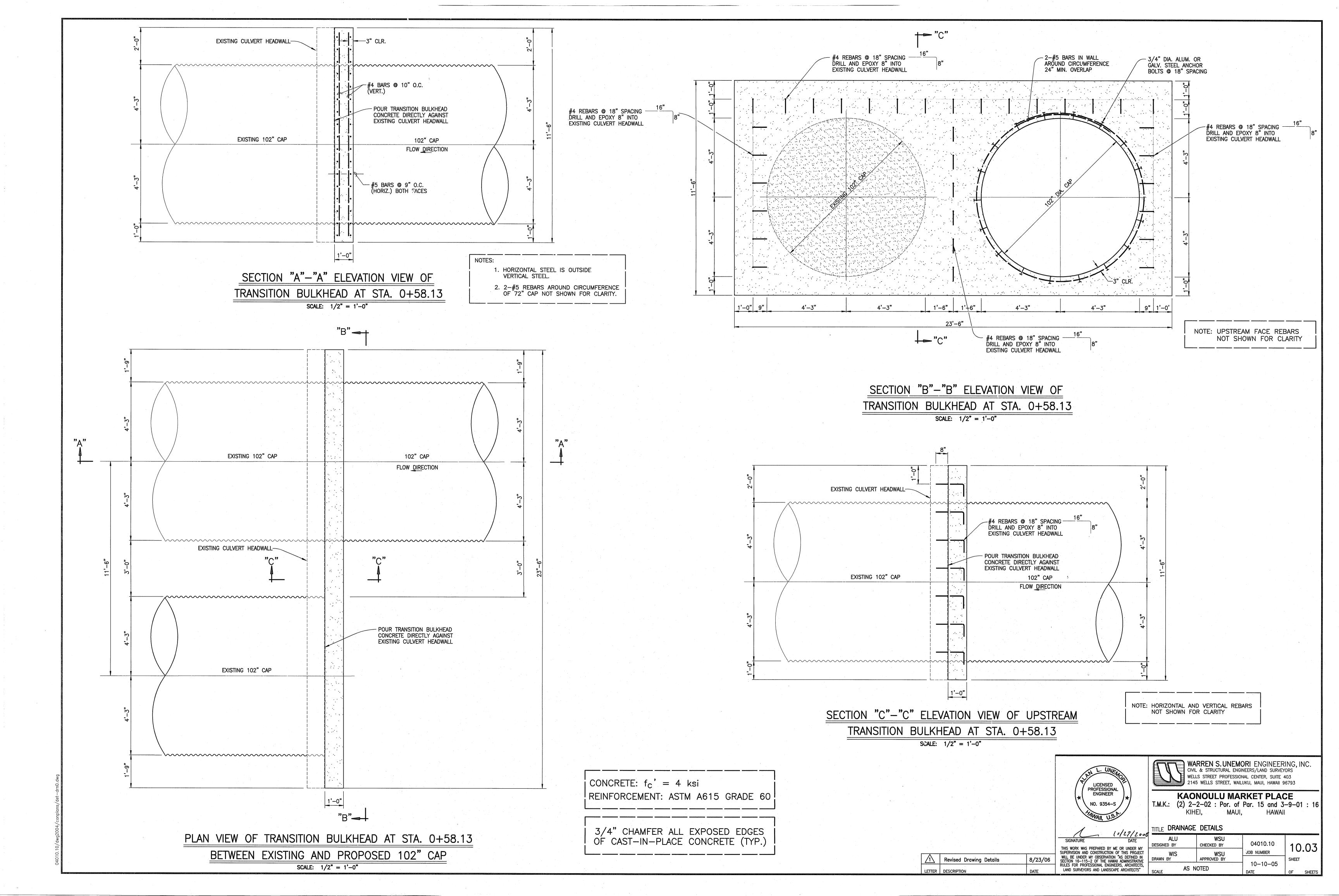
Spot Elevation and Curb Ramp Revisions

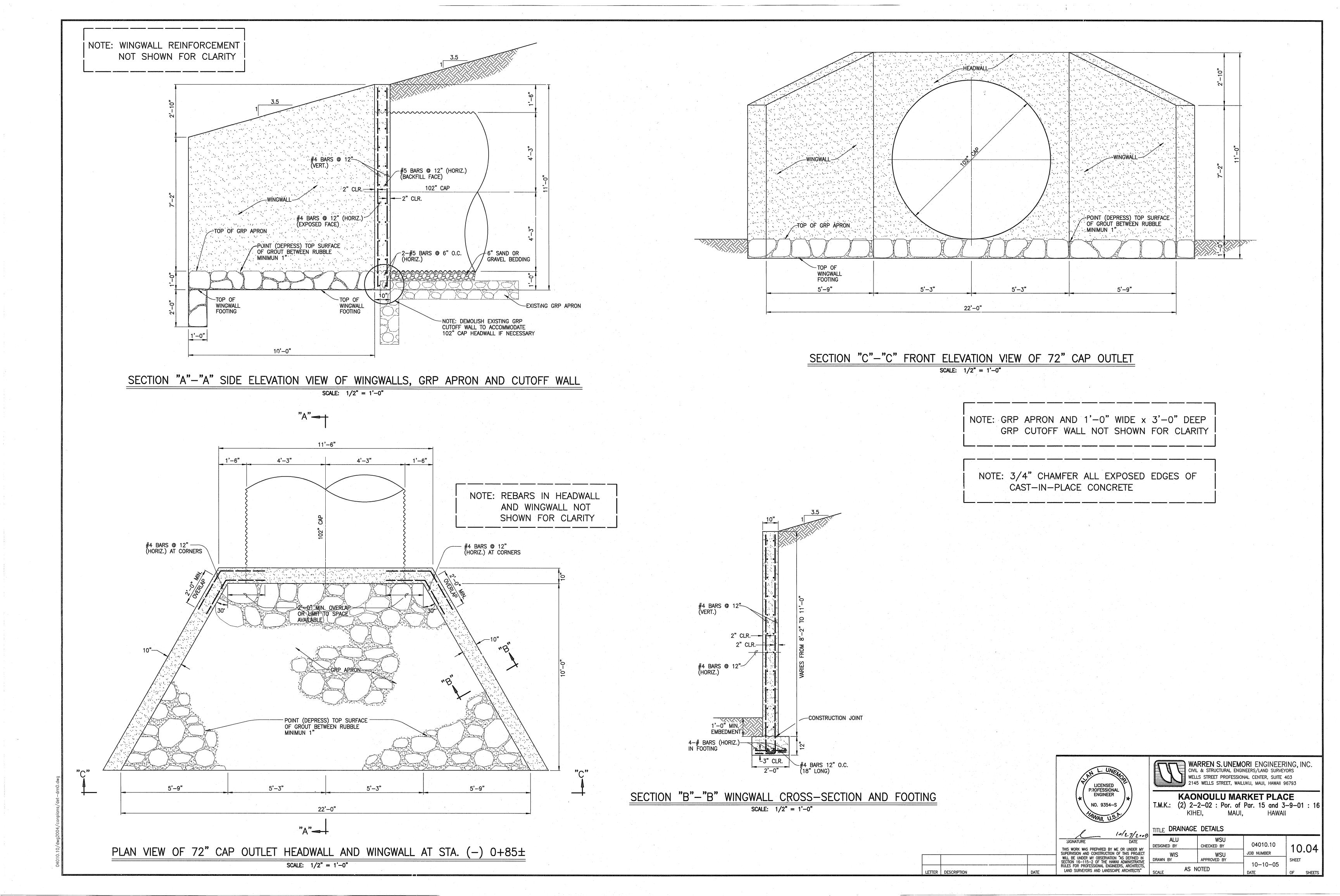
10/21/09

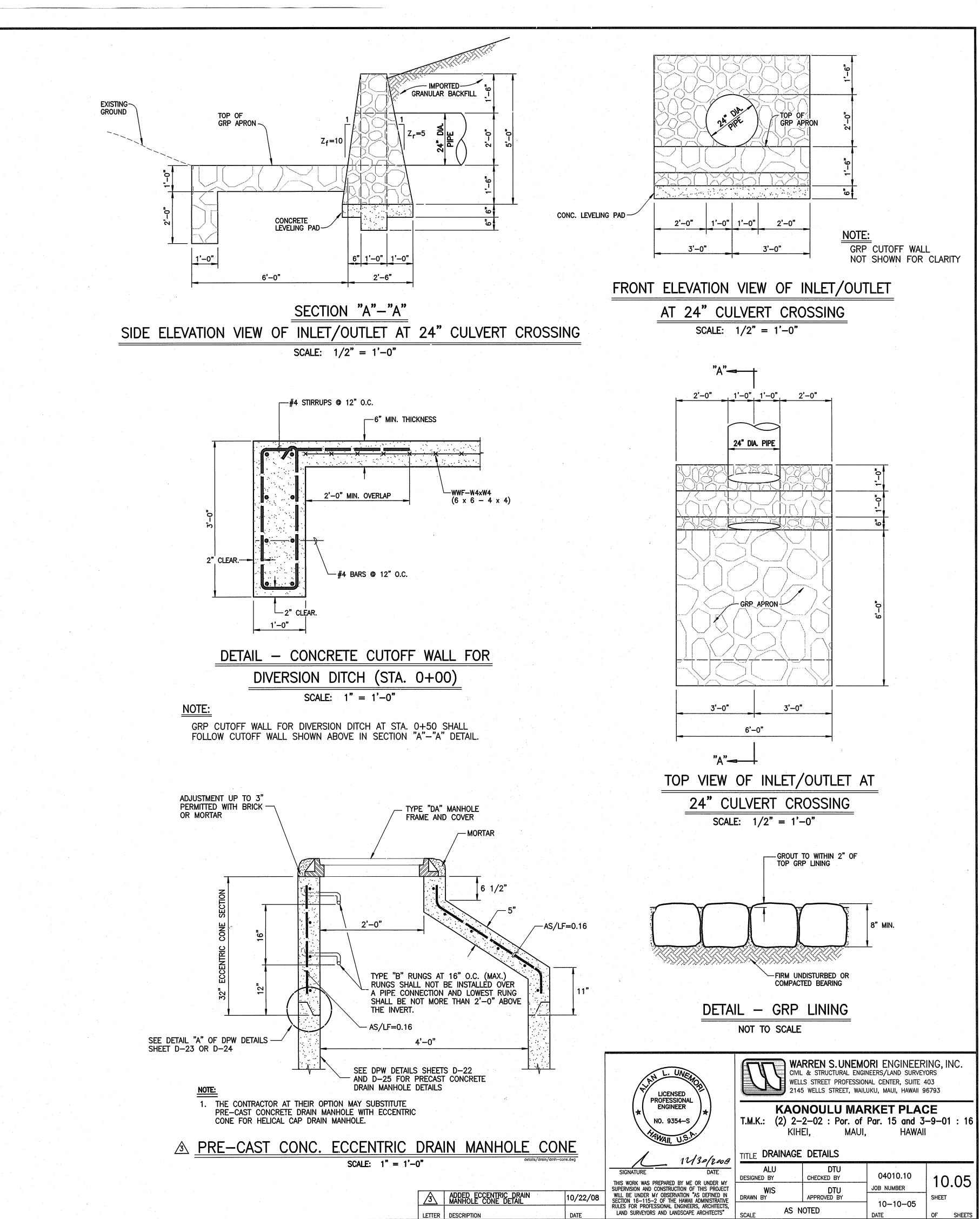
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"



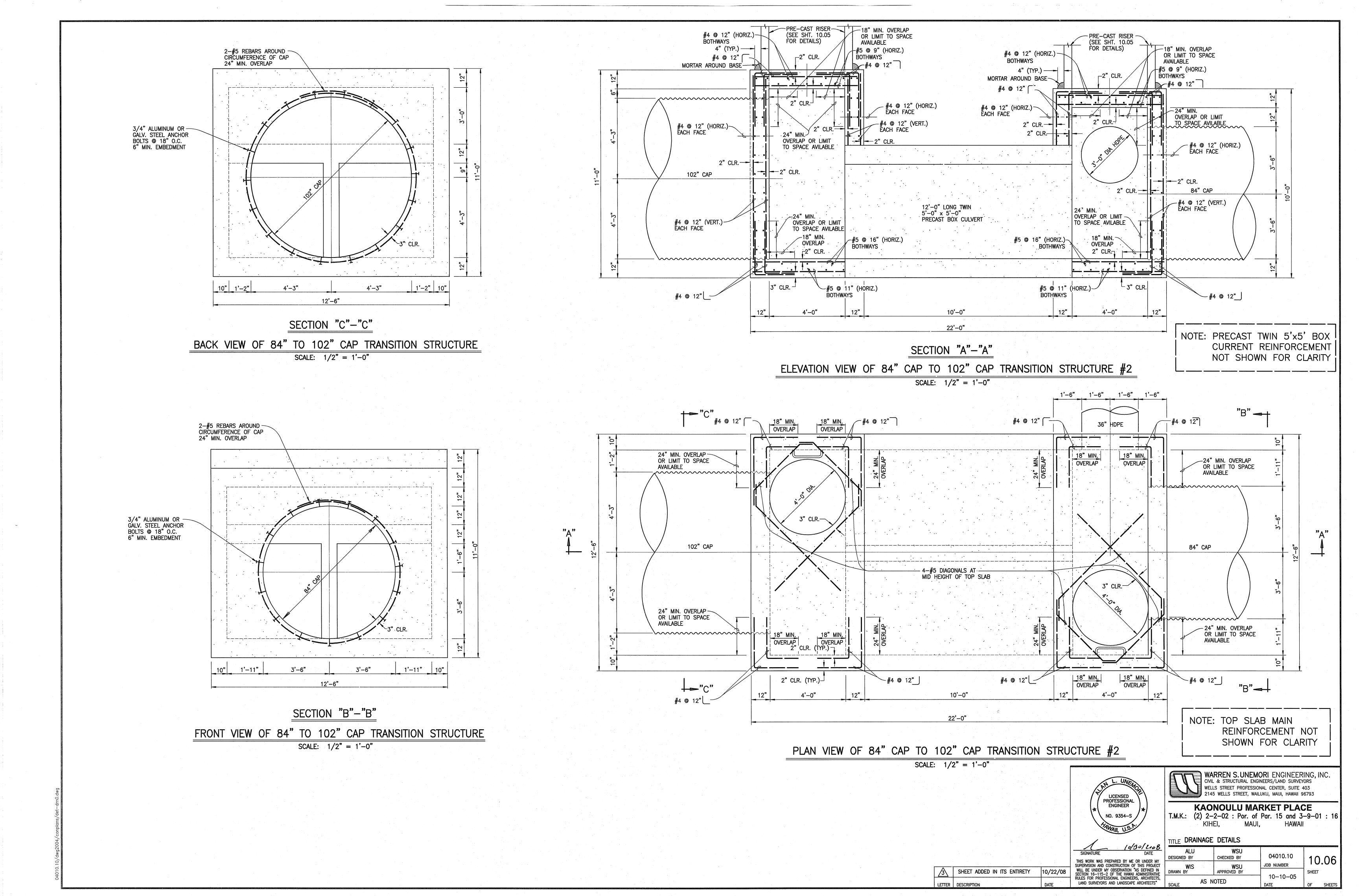


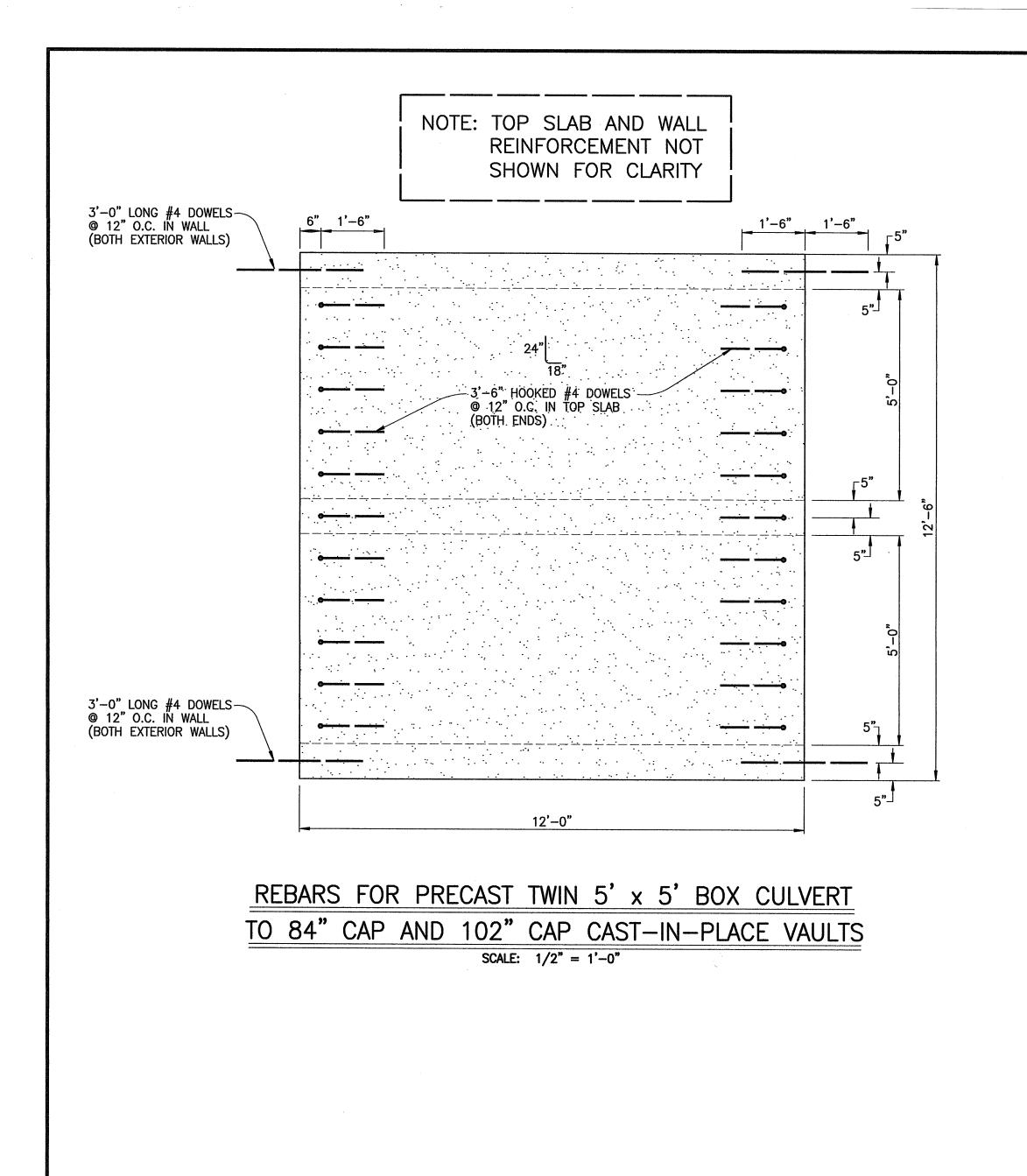


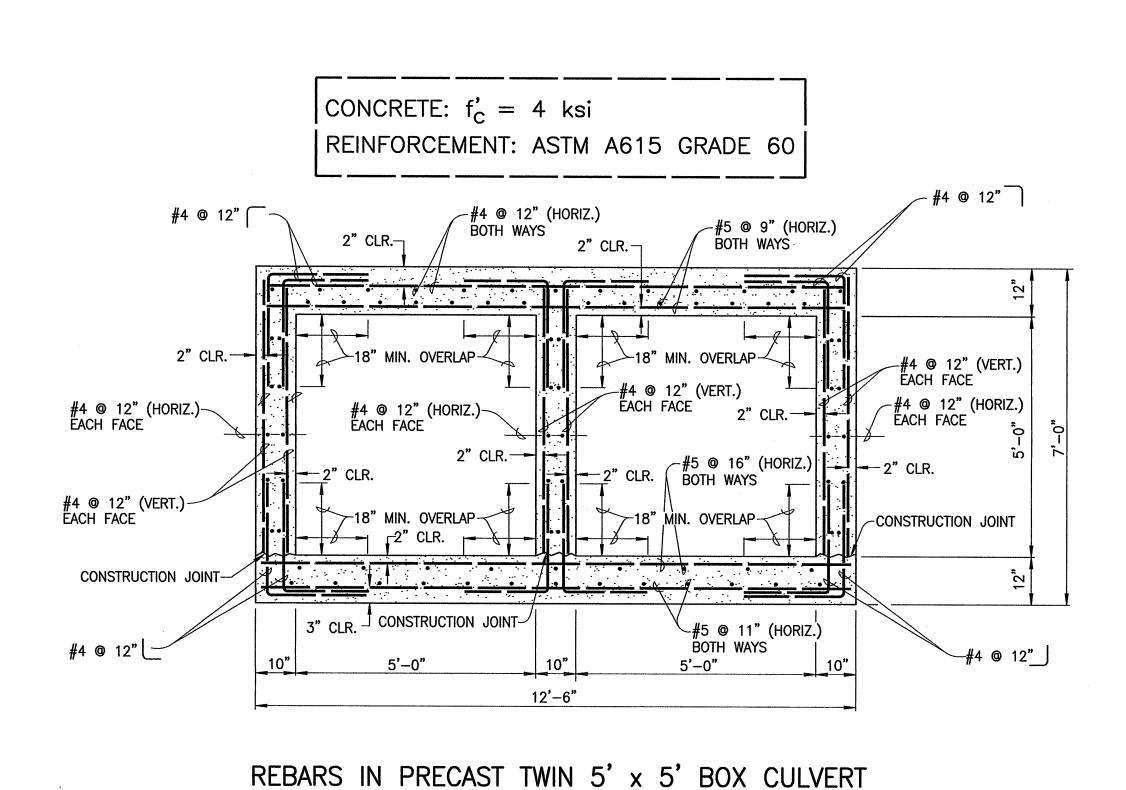




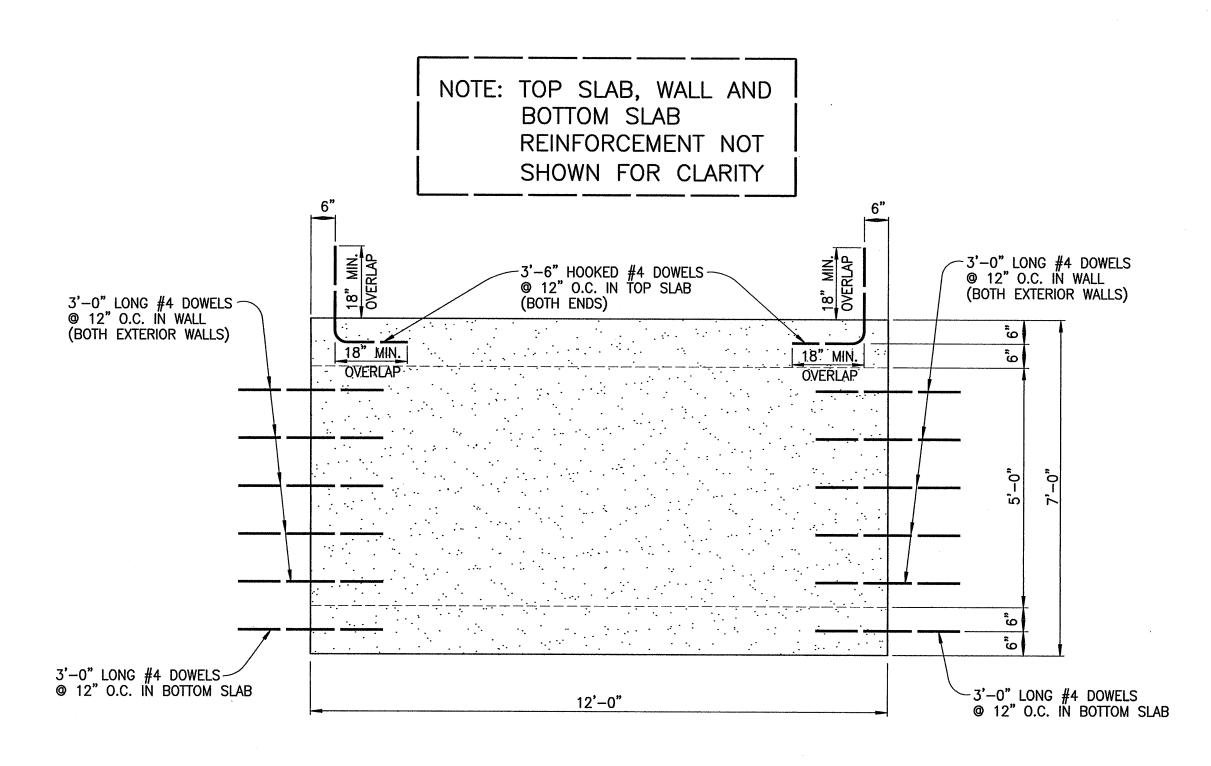
4010.10/dwg2004/conplans/det-drn0.c



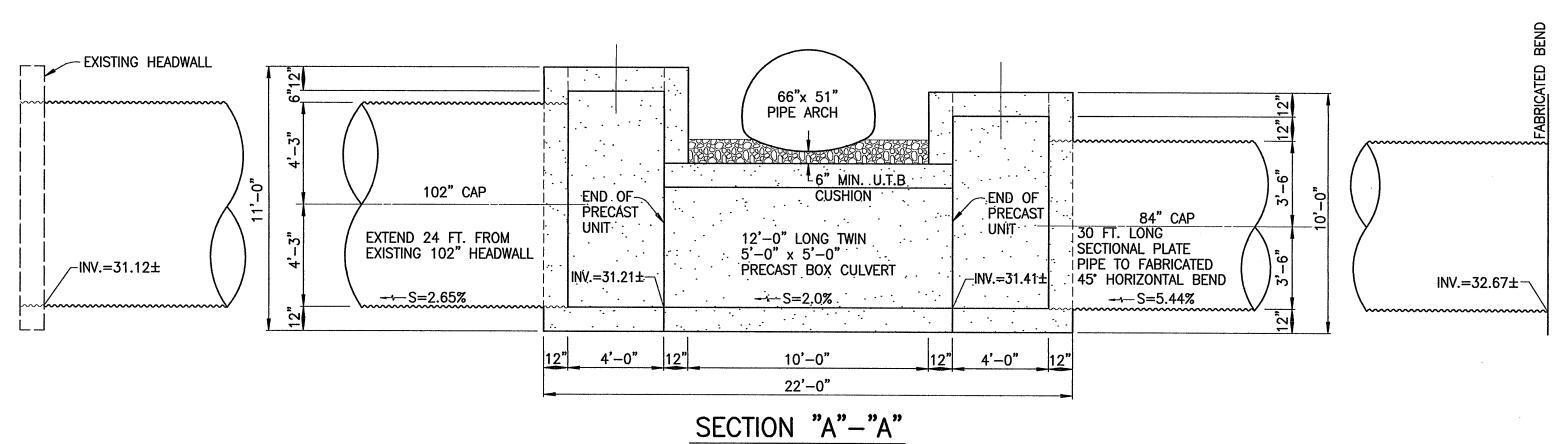




SCALE: 1/2" = 1'-0"

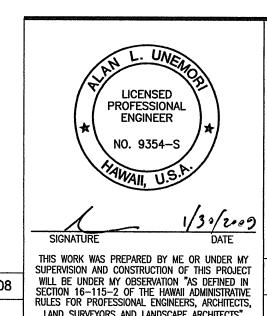


REBARS FOR PRECAST TWIN 5' x 5' BOX CULVERT TO 84" CAP AND 102" CAP CAST-IN-PLACE VAULTS SCALE: 1/2" = 1'-0"



ELEVATION VIEW OF 84" CAP TO 102" CAP TRANSITION STRUCTURE #2 SCALE: 1/4" = 1'-0"

SHEET ADDED IN ITS ENTIRETY



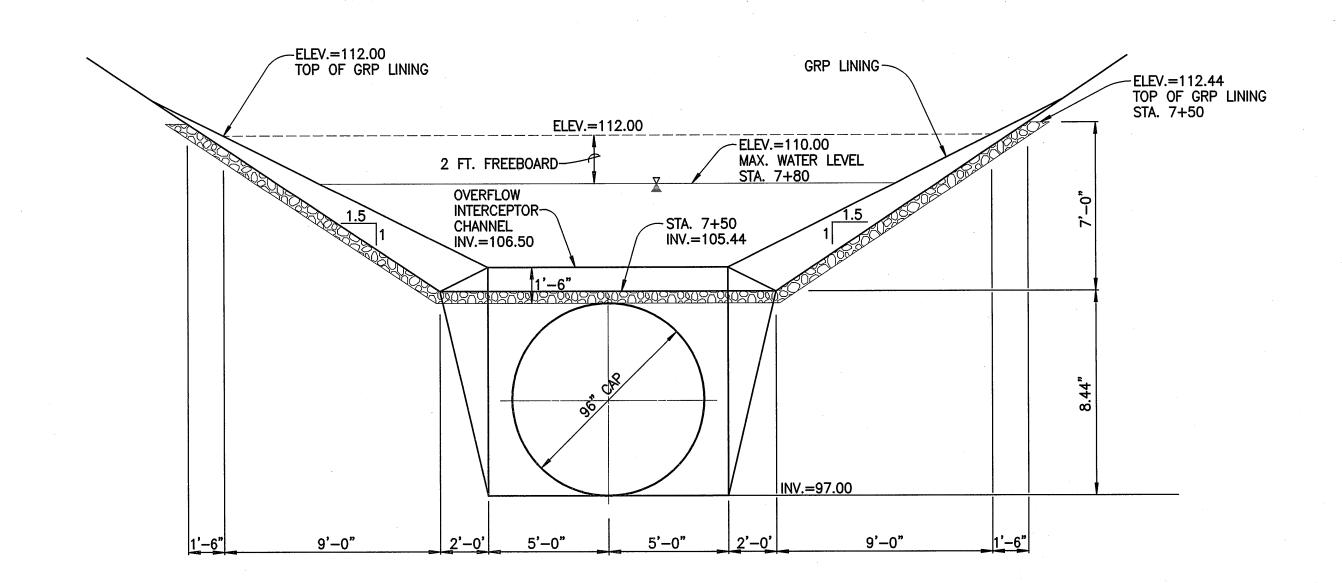
LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403

KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16

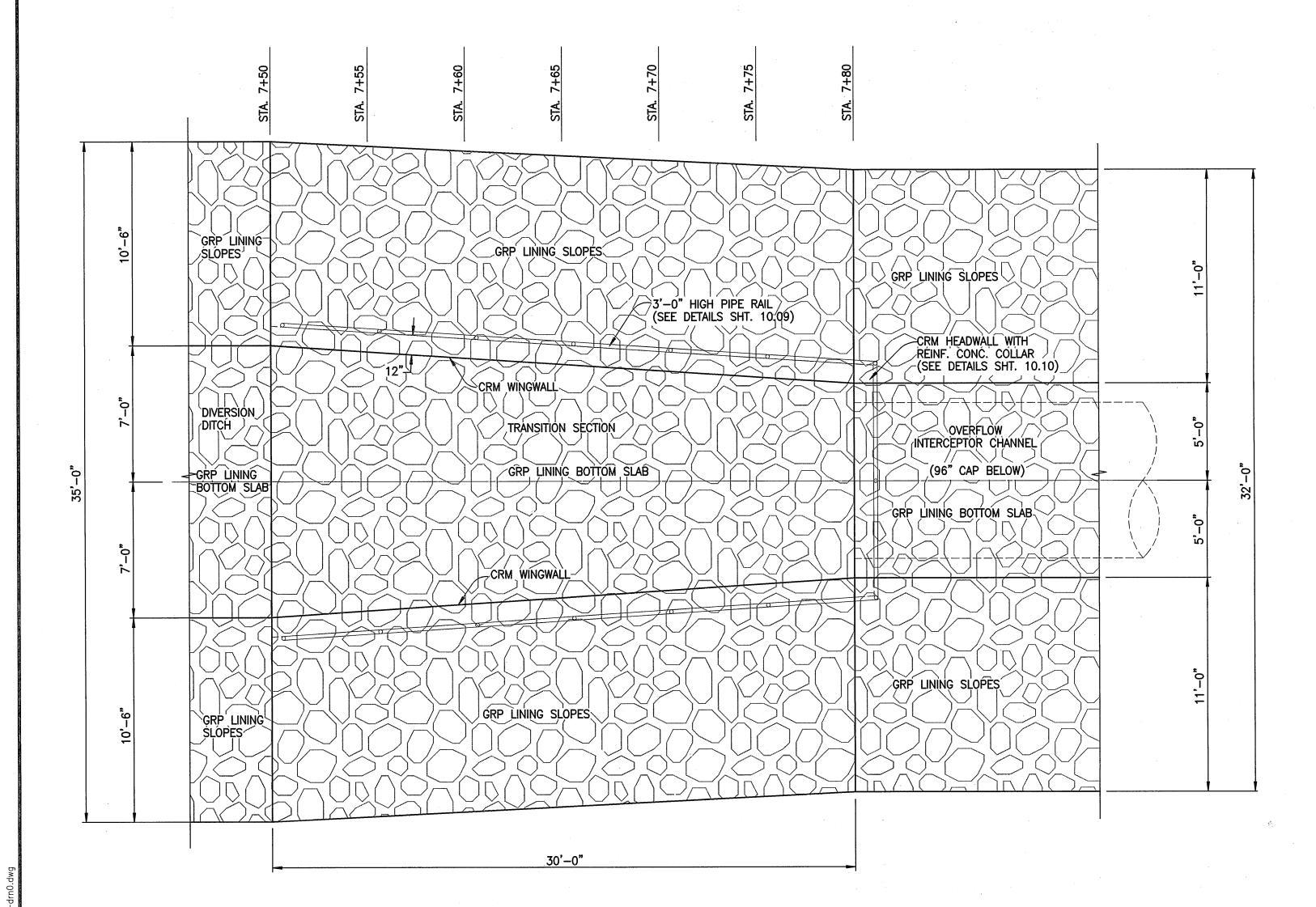
TITLE DRAINAGE DETAILS

IIILE DIVINAGE DETAILS					
ALU DESIGNED BY	DTU CHECKED BY	04010.10	10	07	
WIS	DTU	JOB NUMBER	10	.07	
DRAWN BY	APPROVED BY		SHEET		
SCALE AS NOTED		10-10-05	OF	CHEETS	



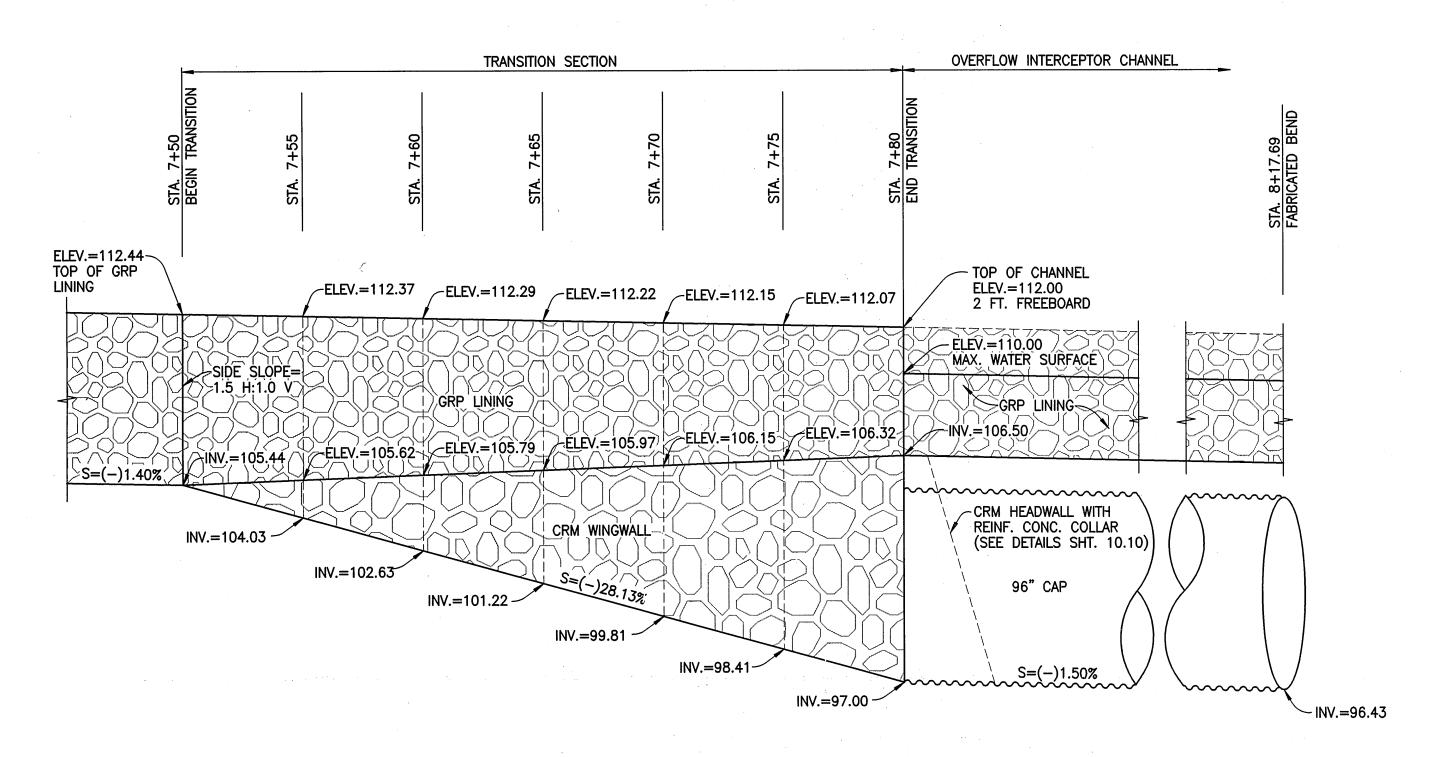
TRANSITION STRUCTURE #1 FROM STA. 7+50 TO STA. 7+80

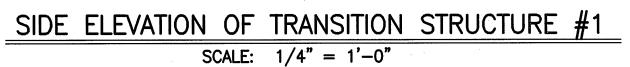
SCALE: 1/4" = 1'-0"



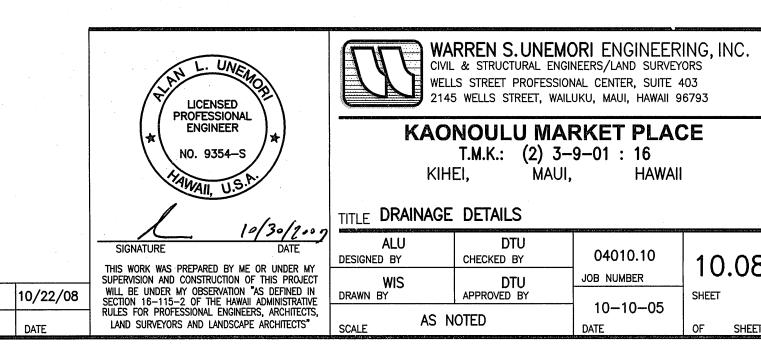
PLAN VIEW OF TRANSITION STRUCTURE #1

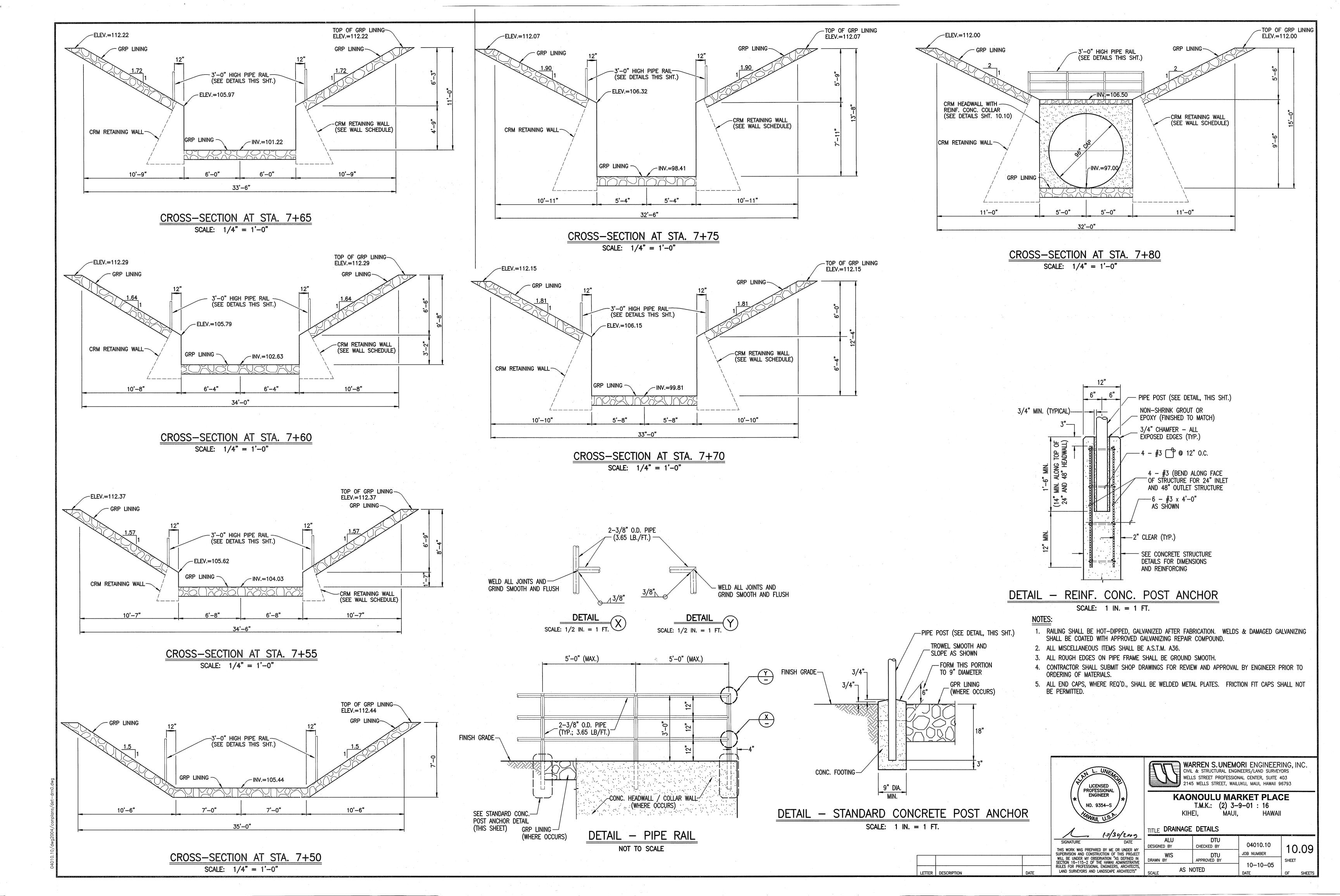
SCALE: 1/4" = 1'-0"

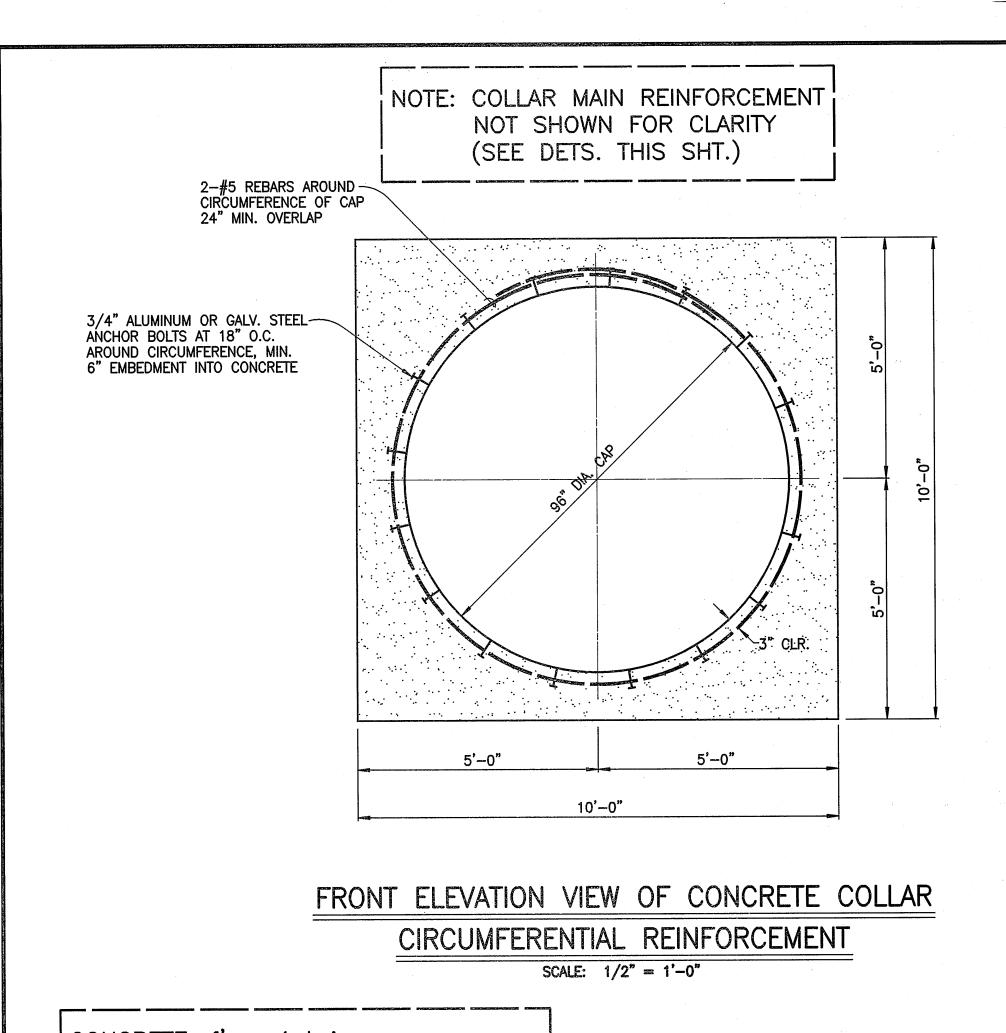




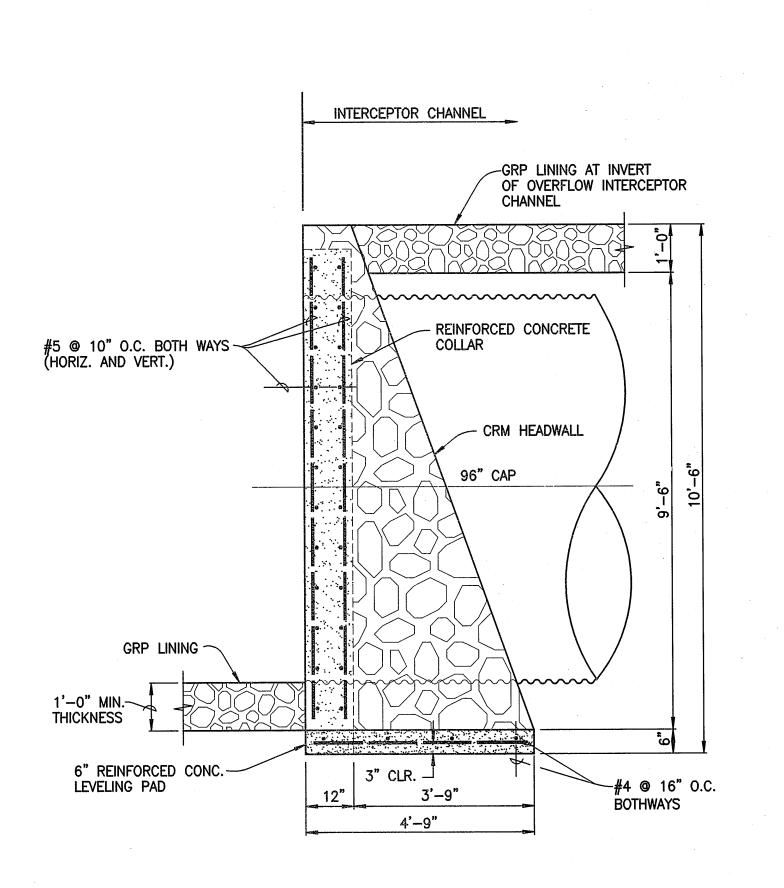
SHEET ADDED IN ITS ENTIRETY



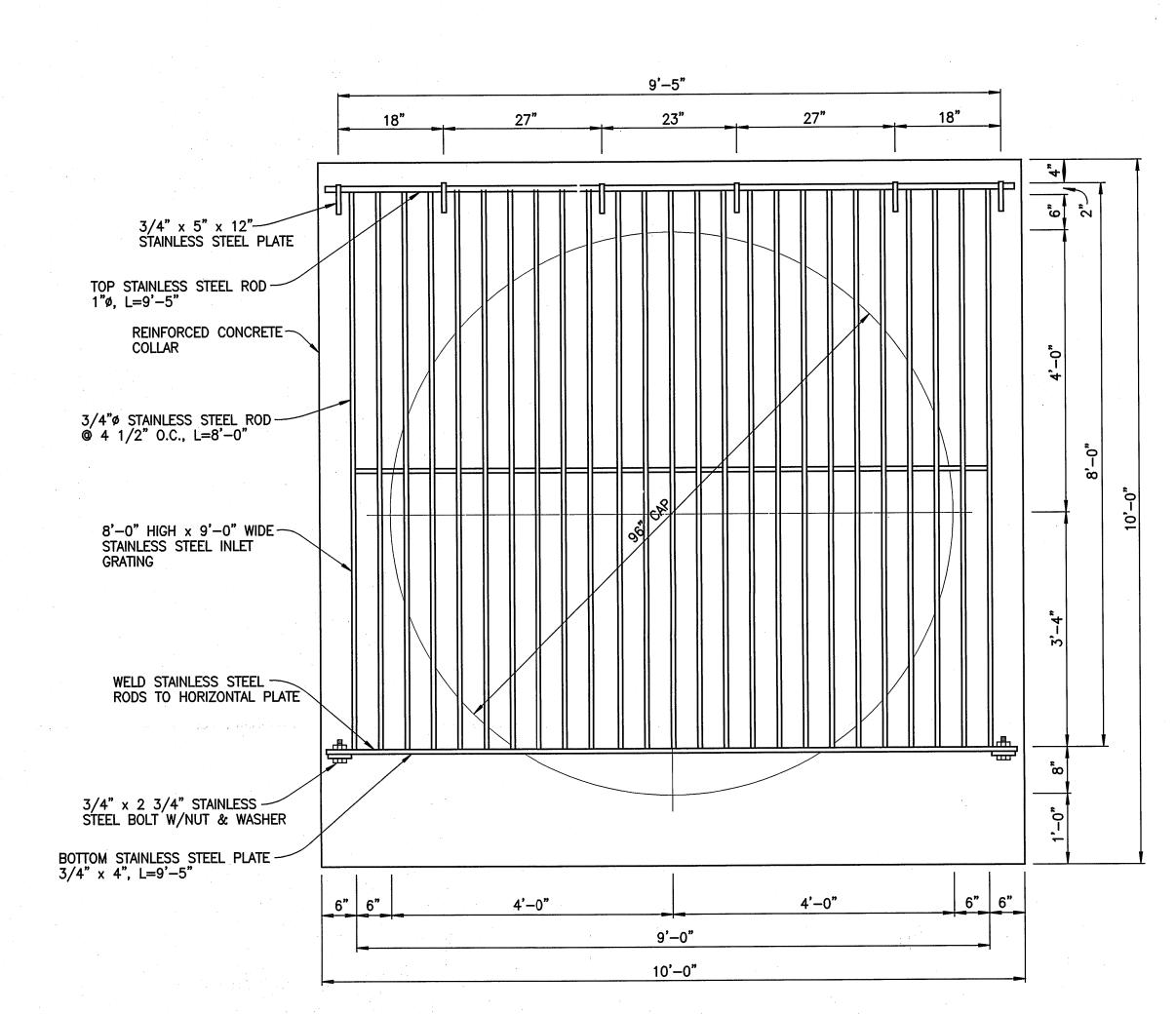




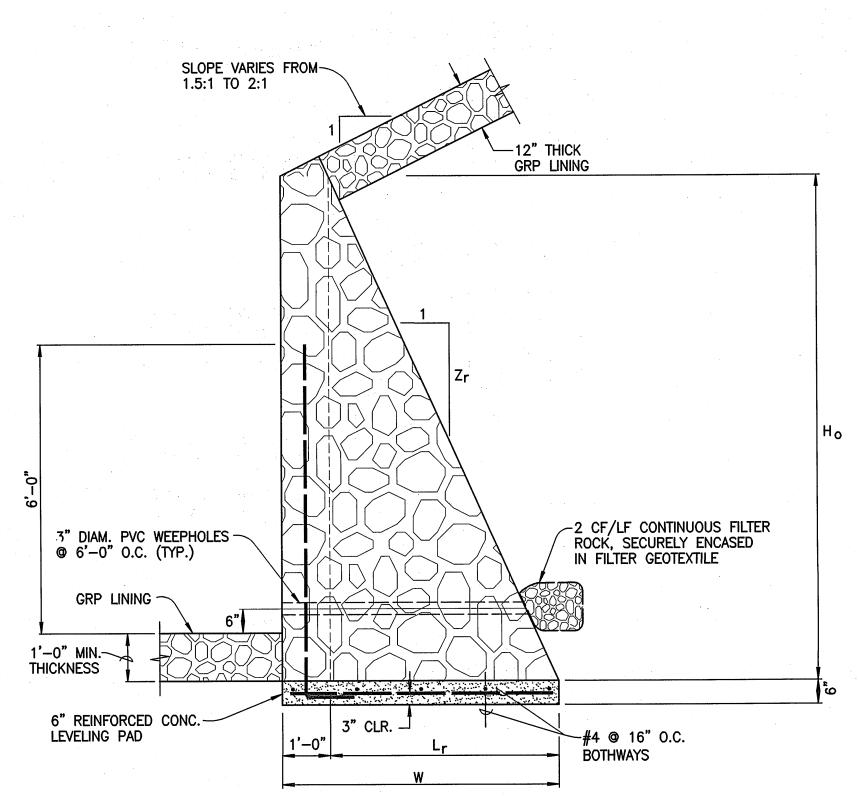
CONCRETE: $f'_{C} = 4$ ksi REINFORCEMENT: ASTM A615 GRADE 60



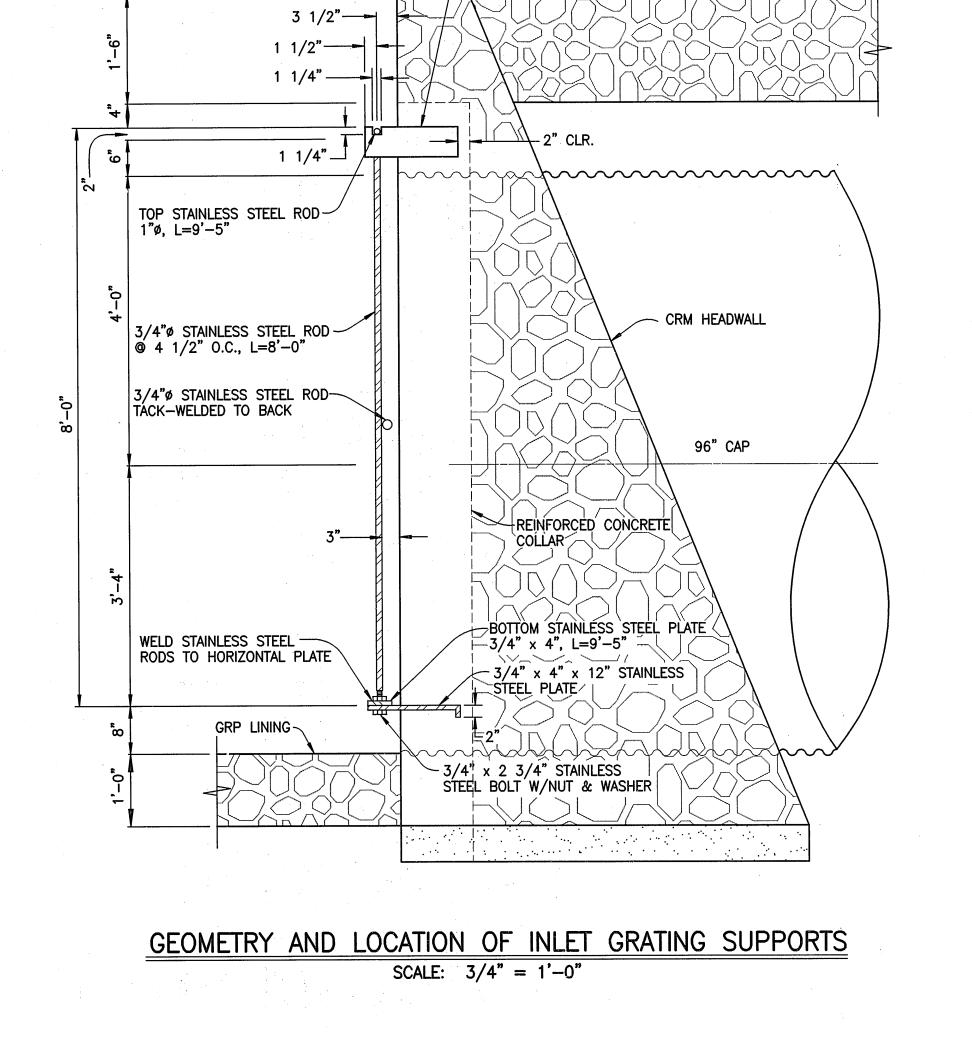
CROSS-SECTION OF CRM HEADWALL SCALE: $1/2^{\circ} = 1'-0''$



INLET GRATING GEOMETRY AND LOCATION ON REINFORCED CONCRETE COLLAR SCALE: 3/4" = 1'-0"



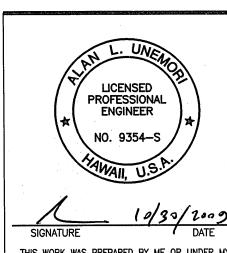
CROSS-SECTION	OF	CRM	WINGWALL
SCALE: 1/	'2" =	1'-0"	



- 3/4" x 5" x 12" STAINLESS STEEL PLATE; BEND PLATE 90" TO PROVIDE 2" CLEAR.

GRP LINING OF OVERFLOW INTERCEPTOR CHANNEL

Component	Sta	Wall Height, Ho (ft)	Backslope	Zr	Lr	W
	7+50	0	1.5:1	N/A	N/A	N/A
	7+55	2' - 6"	1.57:1	2.00	1' - 3"	2' - 3"
	7+60	4' - 2"	1.64:1	1.65	2' - 7"	3' - 7"
Wingwall	7+65	5' – 9"	1.72:1	1.60	3' - 8"	4' – 8"
	7+70	7' - 4"	1.81:1	1.60	4' - 9"	5' - 9"
	7+75	8' - 11"	1.90:1	1.65	5' - 6"	6' – 6"
·	7+80	10' - 6"	2.0:1	2.25	4' - 9"	5' - 9"
Headwall	7+80	10' - 6"	Level	2.90	3' - 9"	4' - 9"



WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS
WELLS STREET PROFESSIONAL CENTER, SUITE 403
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793 CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS

> **KAONOULU MARKET PLACE** T.M.K.: (2) 3-9-01 : 16 `MAUI,

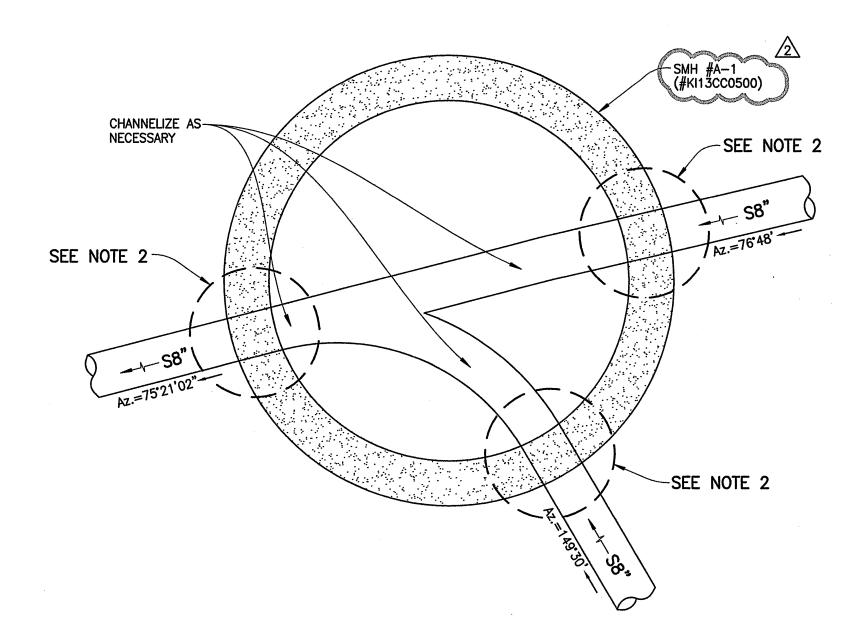
TITLE DRAINAGE DETAILS

04010.10 CHECKED BY DESIGNED BY THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, JOB NUMBER APPROVED BY 10-10-05

LETTER DESCRIPTION

LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

AS NOTED



SMH #A-1 (#KI13CC0500)

NOT TO SCALE

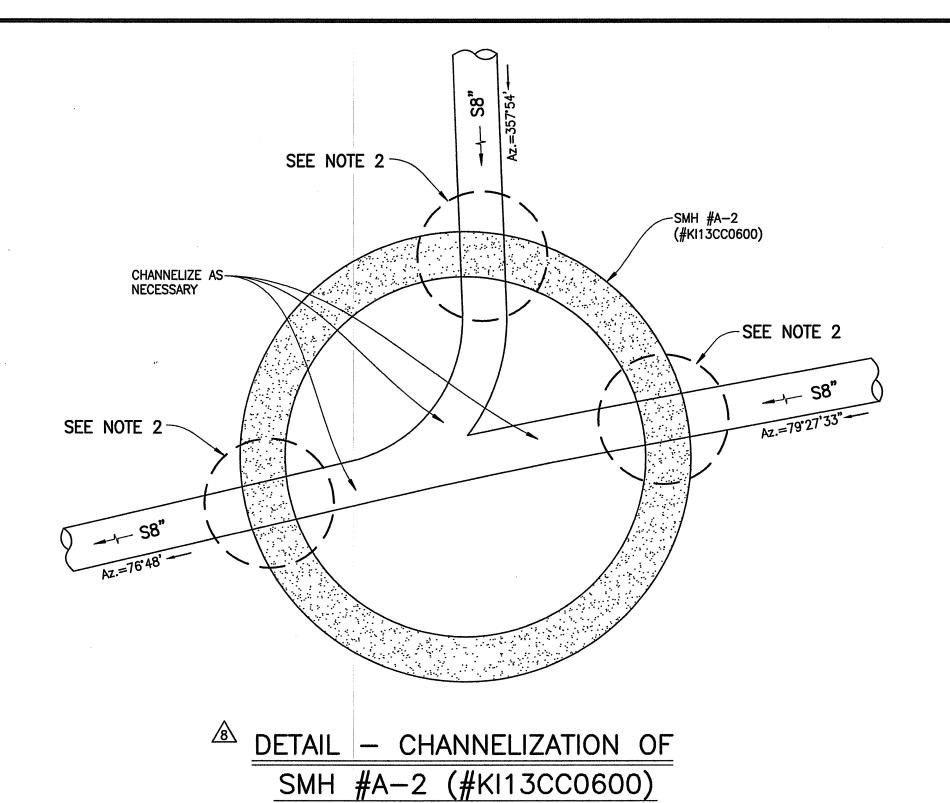
NOTES:

- FOR CONNECTION OF NEW SEWERLINE INTO EXISTING MANHOLE, CONTRACTOR SHALL USE A-LOK X-CEL GASKET FIELD SLEEVE AS DISTRIBUTED BY WALKER INDUSTRIES LTD., OR APPROVED EQUAL. INSTALLATION SHALL BE AS RECOMMENDED BY MANUFACTURER.
- 2. FOR ALL NEW SEWERLINE / NEW MANHOLE CONSTRUCTION, CONTRACTOR SHALL USE A-LOK X-CEL GASKET AS DISTRIBUTED BY WALKER INDUSTRIES LTD., OR APPROVED EQUAL. INSTALLATION SHALL BE AS RECOMMENDED BY MANUFACTURER.

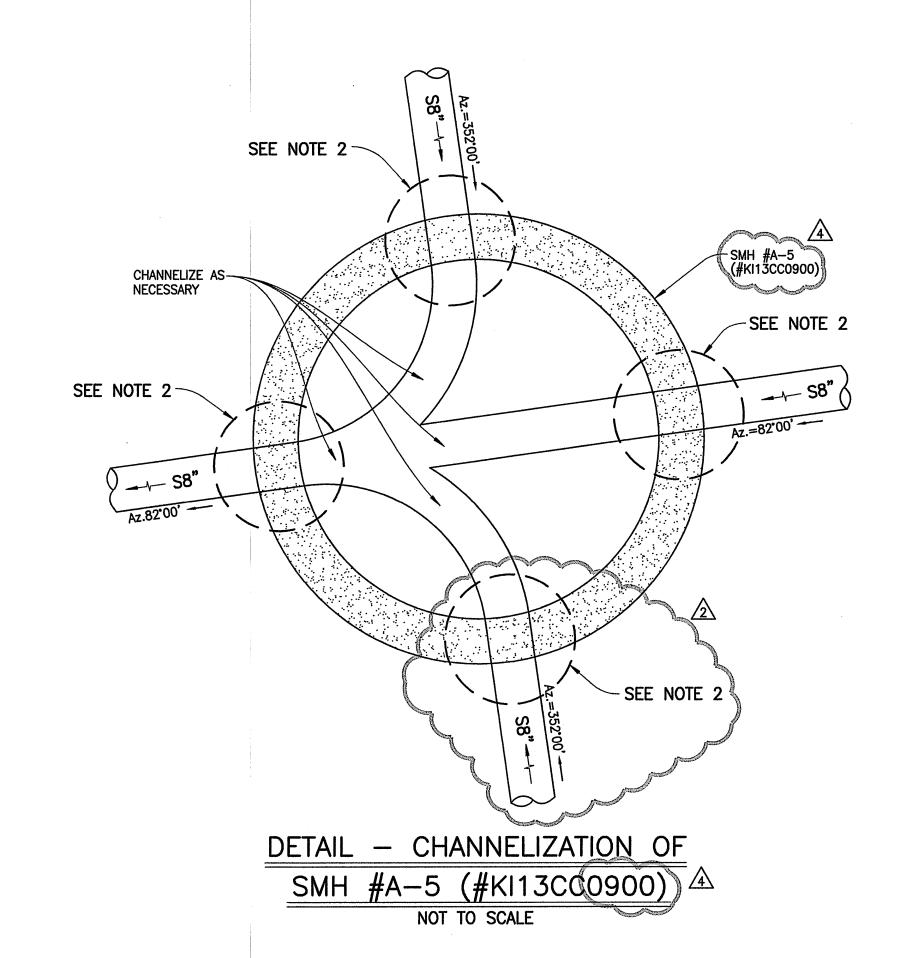
STANDARD SEWER DETAILS

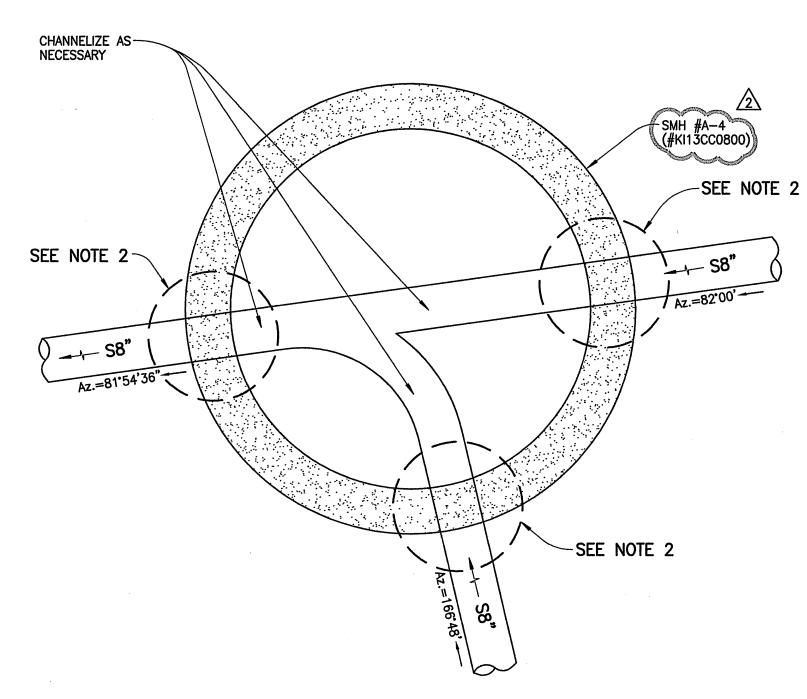
THE FOLLOWING DETAILS AS SHOWN ON "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, STATE OF HAWAII", ARE SPECIFICALLY REFERENCED WITHIN THESE PLANS AND SHALL BE CONSIDERED PART OF THE CONSTRUCTION DRAWINGS. (THIS SHALL NOT BE CONSTRUED TO RELIEVE CONTRACTOR FROM COMPLYING WITH ALL PERTINENT PARTS OF THE AFOREMENTIONED LIST, STANDARD DETAILS AND STANDARDS.)

<u>PLATE</u>	CONTENTS
S-6	LATERALS
S-7	ADVANCE RISER CONNECTION
S-9	CHIMNEY
S-10	INDEX TO SEWER MANHOLE DETAILS
S-11, S-12	MANHOLE NOTES
S-13	PRE-CAST CONCRETE PLAIN MANHOLE
S-15	PRE-CAST CONCRETE SHALLOW DROP MANHOLE
S-16	PRE-CAST CONCRETE SHALLOW DROP MANHOLE-BUTT JOINT DETAILS
S-22	PRE-CAST CONCRETE ECCENTRIC MANHOLE CONE
S-31	MANHOLE COVER-TYPE SA
S-32	MANHOLE FRAME—TYPE SA
S-47	PVC PIPE—BEDDING REQUIREMENTS
S-48	PVC PIPE-RESILIENT MANHOLE CONNECTION

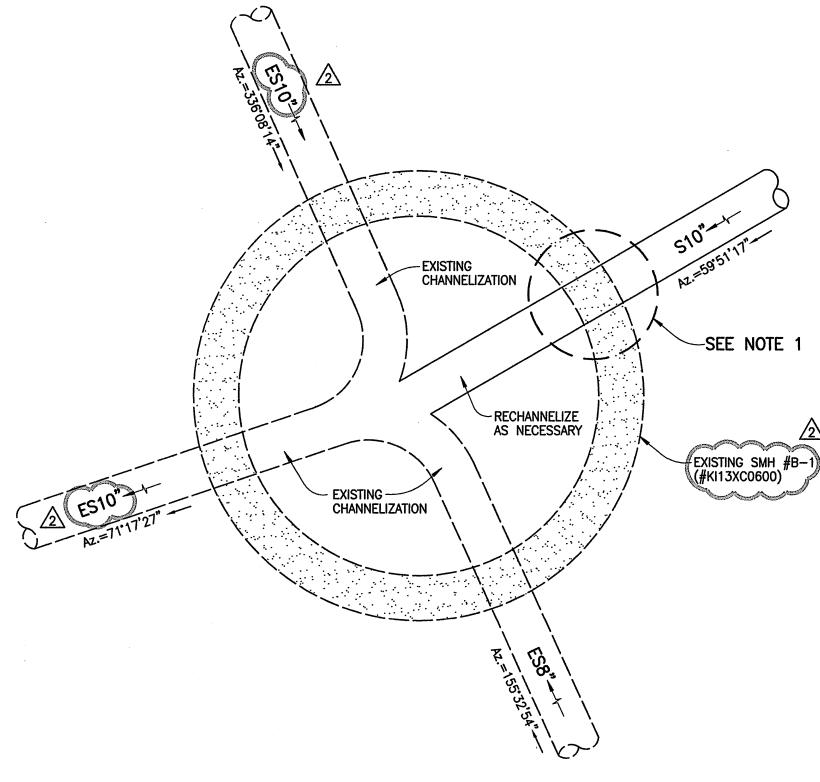


NOT TO SCALE

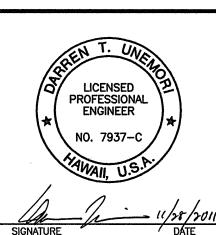




DETAIL - CHANNELIZATION OF SMH #A-4 (#KI13CC0800) NOT TO SCALE



DETAIL - RE-CHANNELIZATION OF EXISTING SMH #B-1 (#KI13XC0600) NOT TO SCALE



LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

REVISED PER WWRD COMMENTS

REVISED PER WWRD COMMENTS

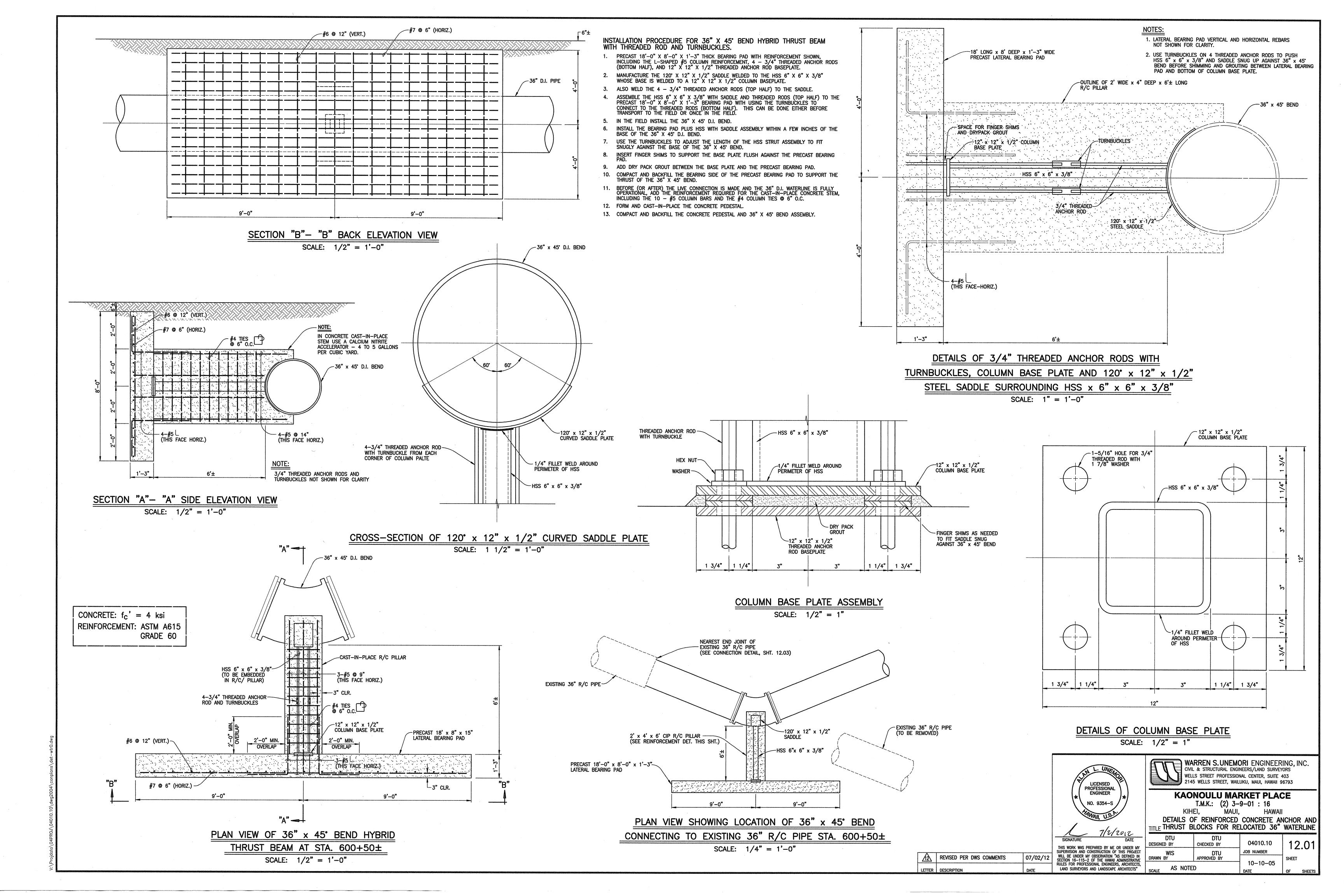
WARREN S. UNEMORI ENGINEERING, INC.
CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS
WELLS STREET PROFESSIONAL CENTER, SUITE 403
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

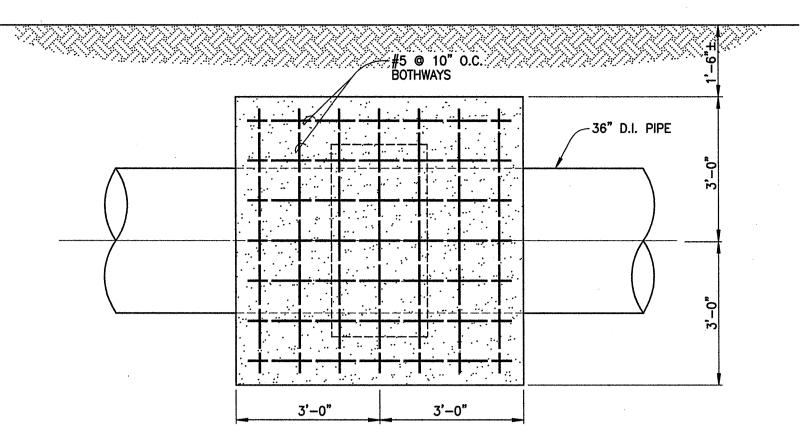
KAONOULU MARKET PLACE T.M.K.: (2) 3-9-01 : 16

KIHEI, MAUI, HAWAII

ADJUSTMENTS TO LOT 1 LATERALS 10/18/11 DESIGNED BY THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS,

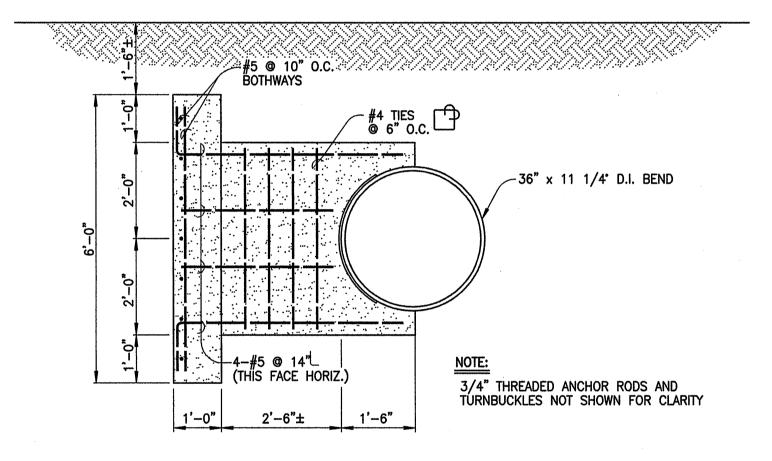
TITLE SEWER DETAILS 04010.10 CHECKED BY JOB NUMBER WIS 10-10-05 AS NOTED





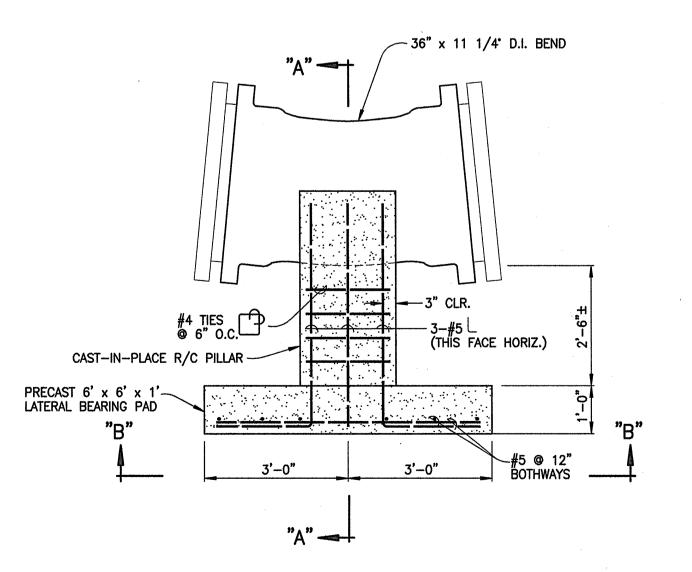
SECTION "B"-"B" BACK ELEVATION VIEW

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



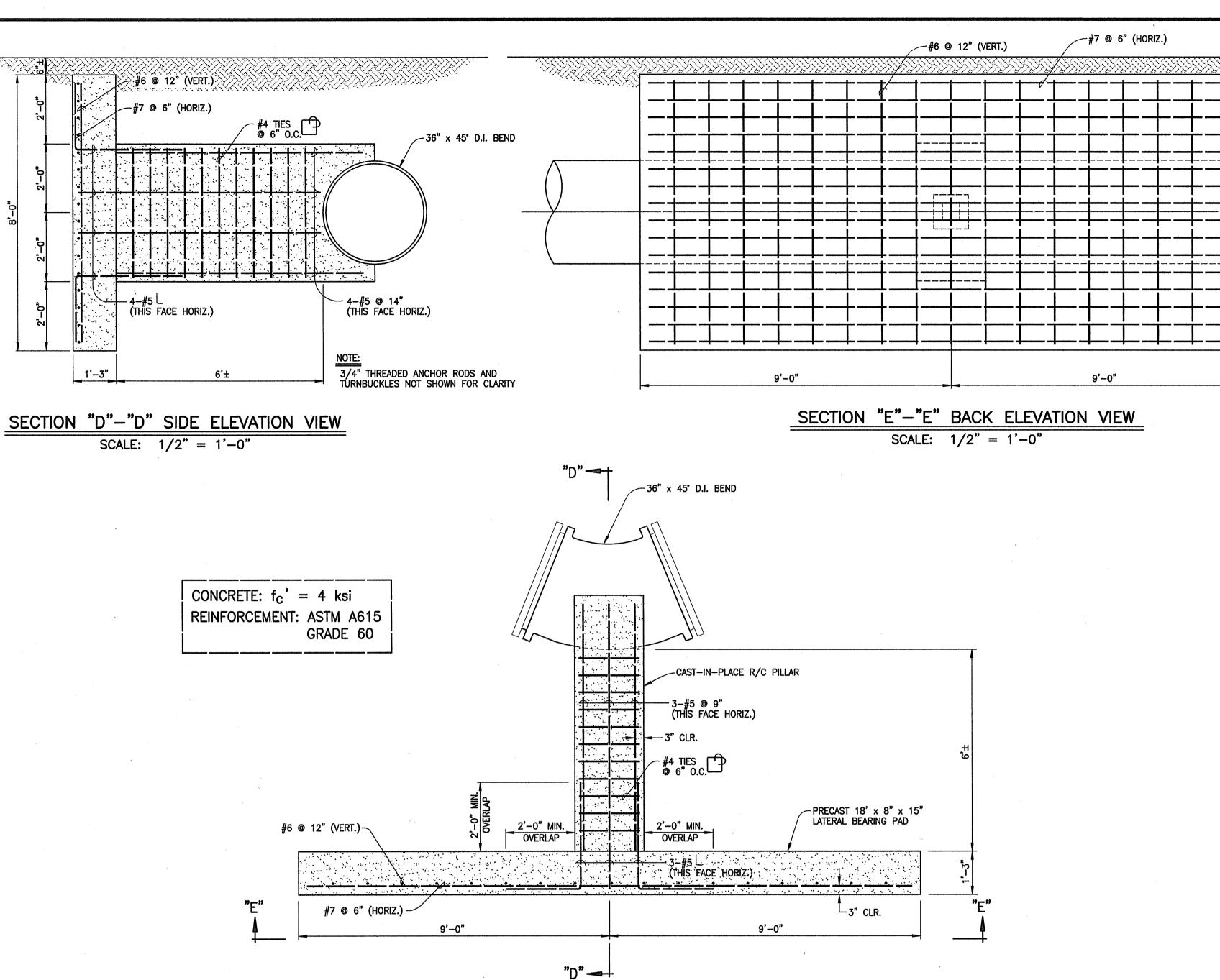
SECTION "A"-"A" SIDE ELEVATION VIEW

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

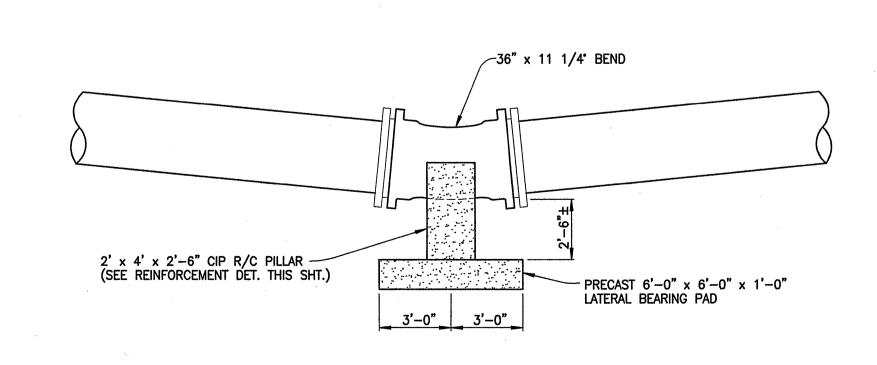


PLAN VIEW OF 36" x 11 1/4° BEND THRUST BEAM

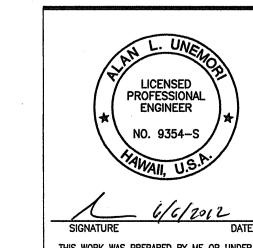
SCALE: 1/2" = 1'-0"



PLAN VIEW OF 36" x 45° BEND STANDARD CAST-IN-PLACE THRUST BEAM SCALE: 1/2" = 1'-0"



PLAN VIEW SHOWING LOCATION OF 36" x 11 1/4° BEND AT STA. 0+50.21SCALE: 1/4" = 1'-0"



WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

___36" D.I. PIPE

KAONOULU MARKET PLACE

T.M.K.: (2) 3-9-01 : 16

KIHEI, MAUI, HAWAII

DETAILS OF REINFORCED CONCRETE

TITLE THRUST BEAMS FOR RELOCATED 36" WATERLINE

SIGNATURE

DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16–115–2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

LETTER DESCRIPTION

DATE

OF CYCYCLE

SIGNATURE

DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16–115–2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS"

LETTER DESCRIPTION

DATE

LETTER DESCRIPTION

DATE

OF CYCYCLE

SIGNATURE

DATE

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WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16–115–2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS"

SOLUTION OF THIS PROJECT

WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16–115–2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS"

SOLUTION OF THIS PROJECT

WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16–115–2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS"

SOLUTION OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS"

SOLUTION OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS"

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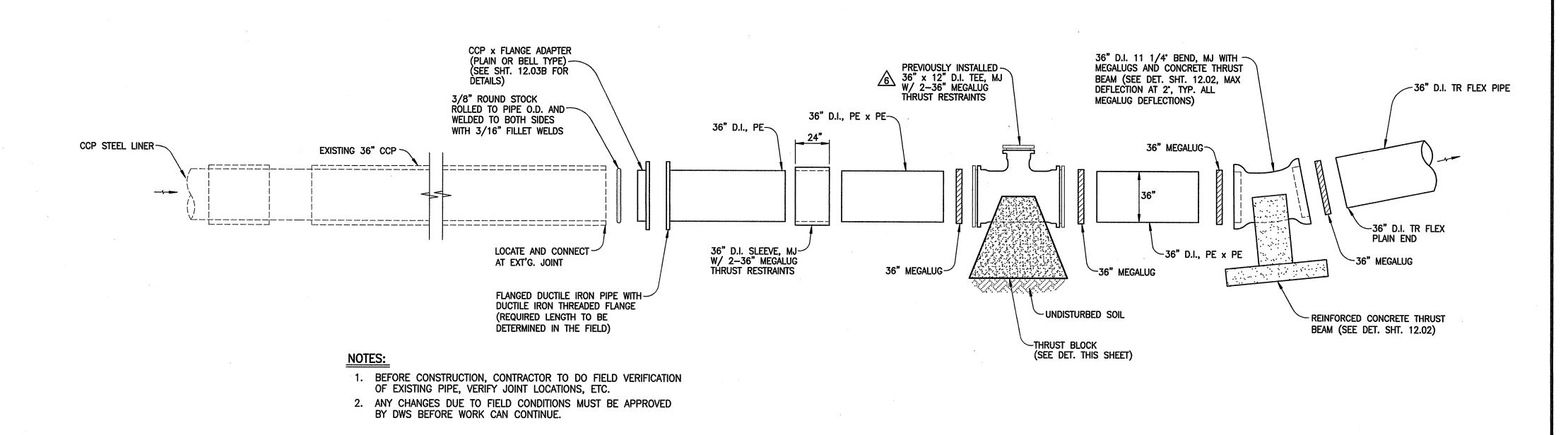
SCALE AS NOTED

DTU O4010.10

JOB NUMBER

10-10-05
DATE

OF SHEETS



SUGGESTED CONSTRUCTION SEQUENCE FOR LIVE CONNECTION TO EXISTING 36" CCP PIPE PRE-LIVE INSTALLATION ACTIVITIES

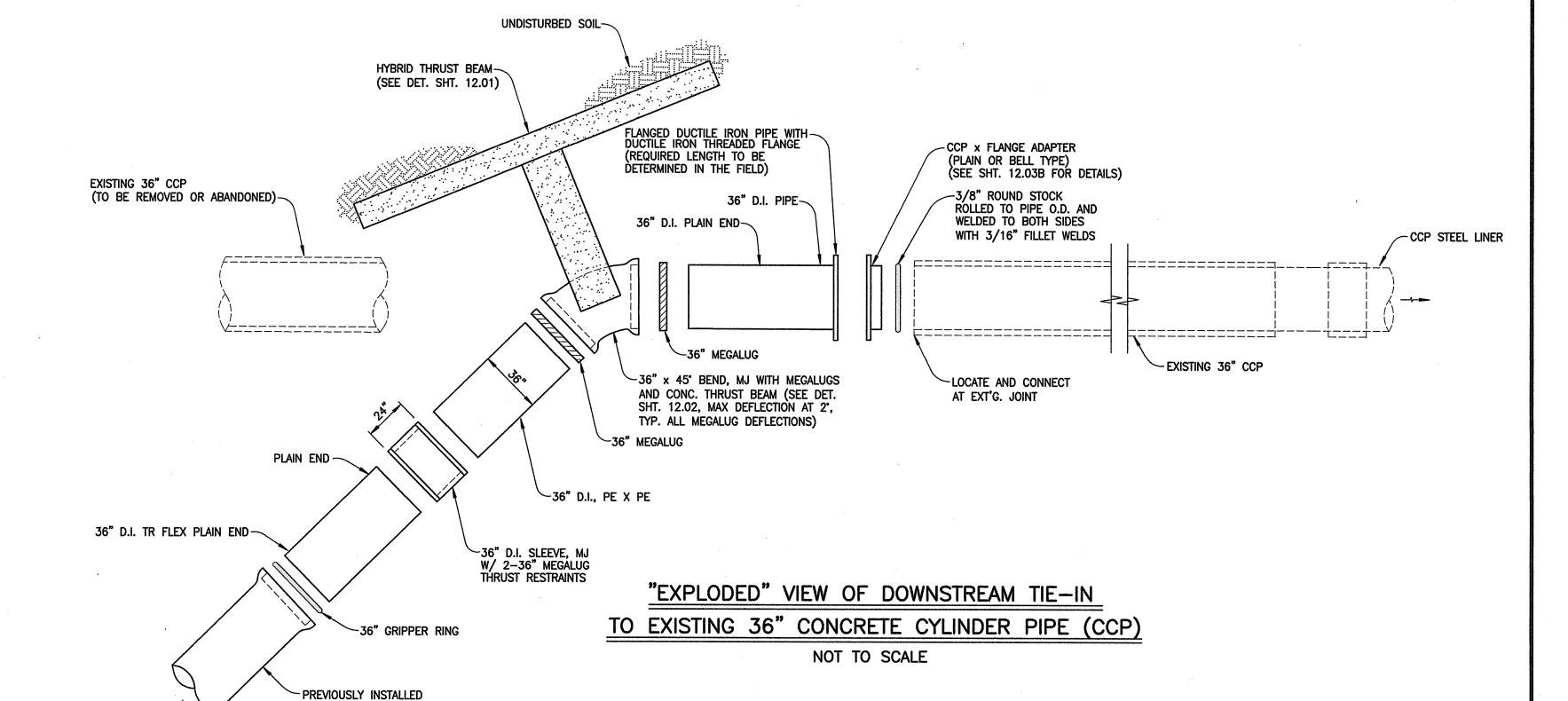
(1) CHLORINATE AND PRESSURE TEST RELOCATED LINE FROM UPSTREAM END TO DOWNSTREAM END OF PIPE.

LIVE INSTALLATION ACTIVITIES

- (2) CLOSE 36" CCP LINE (2 LOCATIONS UPSTREAM AND DOWNSTREAM OF PROJECT SITE)
- (3) CUT 36" LINE
- (4) DRAIN 36" LINE CONTENTS INTO TEMPORARY RETENTION BASIN
- (5) WELD FLANGE ADAPTORS TO CUT END OF 36" CCP LINE (2 LOCATIONS)
- (6) INSTALL 36" X 45 DEGREE BEND
- (7) COMPLETE THRUST BEAM CONSTRUCTION AT BEND
- (8) PRESSURE TEST AND CHLORINATE 36" PIPE FITTINGS AS NECESSARY
- (9) CONNECT 36" JUST INSTALLED LINE TO PRE-INSTALLED RELOCATED LINE (2 LOCATIONS)
- (10) OPEN 36" CCP LINE, CHECK FOR LEAKS

POST-LIVE INSTALLATION ACTIVITIES

(11) ABANDON/REMOVE ONSITE 36" CCP LINE



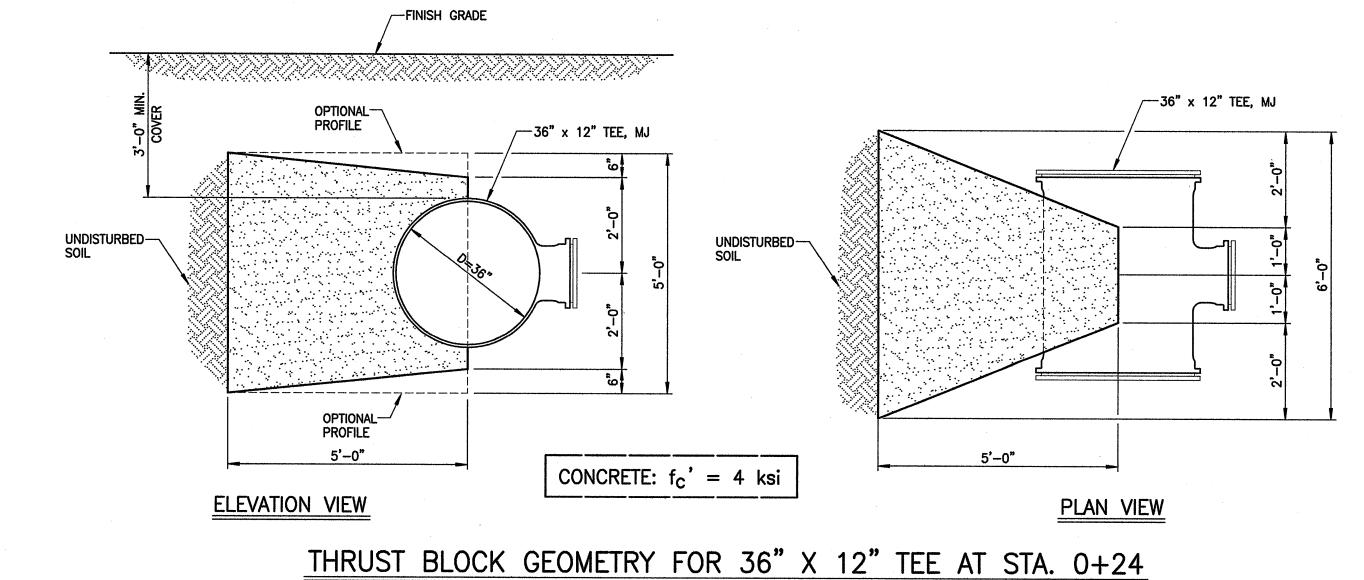
REVISED PER DWS COMMENTS

REVISED PER DWS COMMENTS

"EXPLODED" VIEW OF UPSTREAM TIE-IN

TO EXISTING 36" CONCRETE CYLINDER PIPE (CCP)

NOT TO SCALE



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

36" D.I. TR FLEX PIPE

WARREN S. UNEMORI ENGINEERING, INC.
CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS
WELLS STREET PROFESSIONAL CENTER, SUITE 403
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE

T.M.K.: (2) 3-9-01: 16

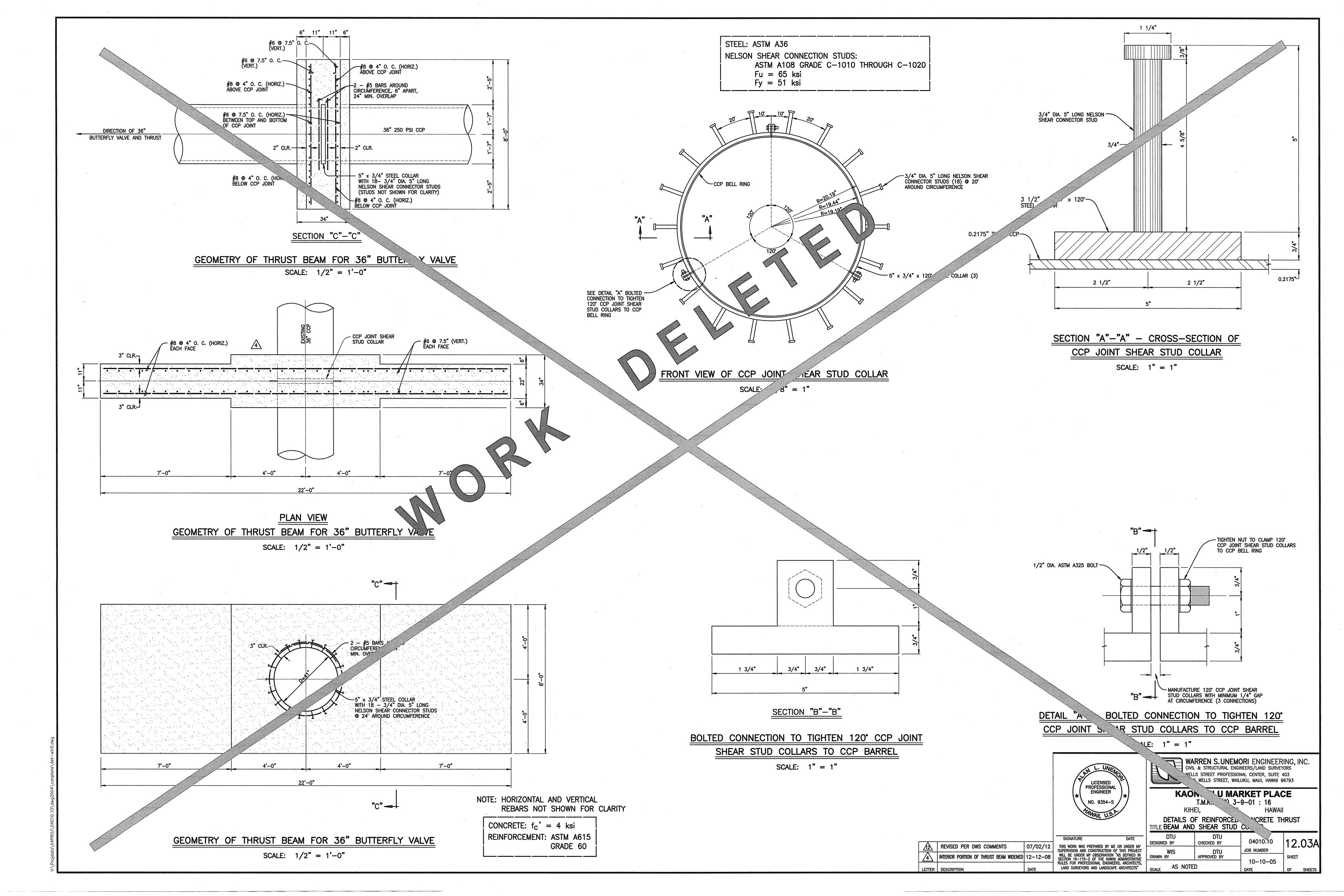
KIHEI, MAUI, HAWAII

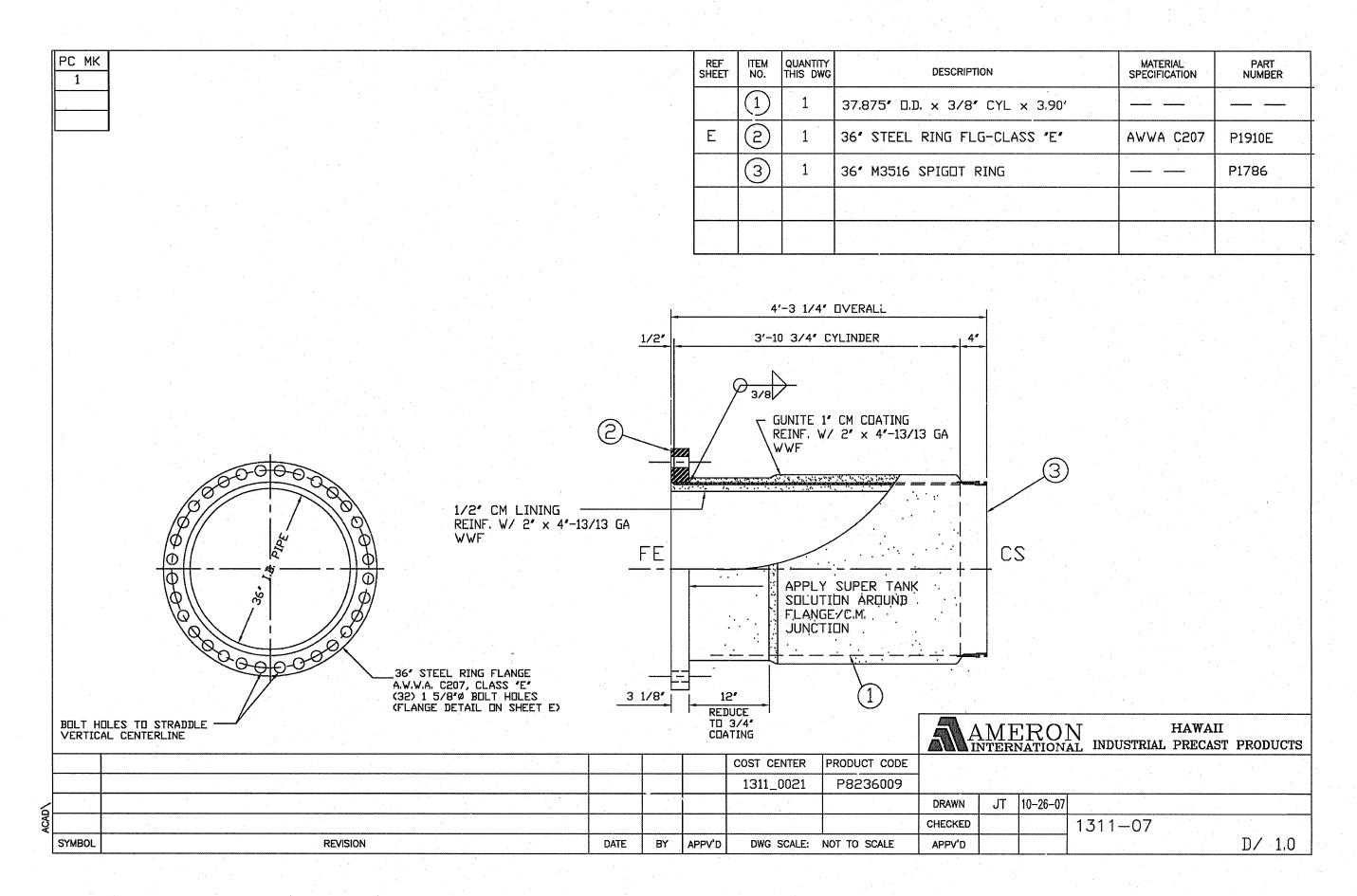
DETAILS OF FITTINGS AT TIE-IN TO EXISTING

TITLE 36" CONCRETE CYLINDER PIPE

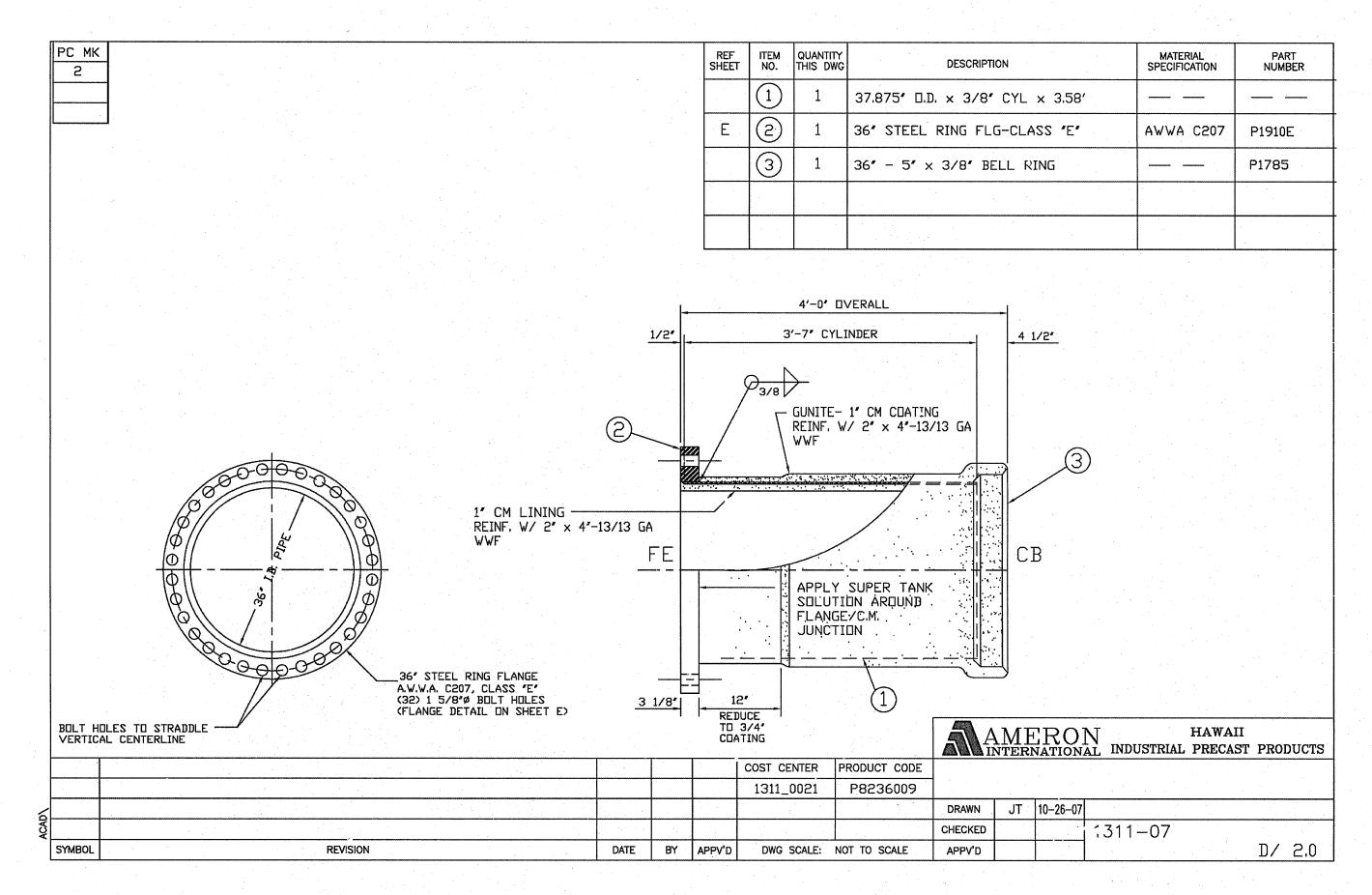
SIGNATURE DATE

| 1/2/2012 | SIGNATURE DATE | DTU | DTU | DESIGNED BY | DTU | DESIGNED BY | DTU | DESIGNED BY | DTU | DTU | DESIGNED BY | DTU | APPROVED BY | DATE | DATE

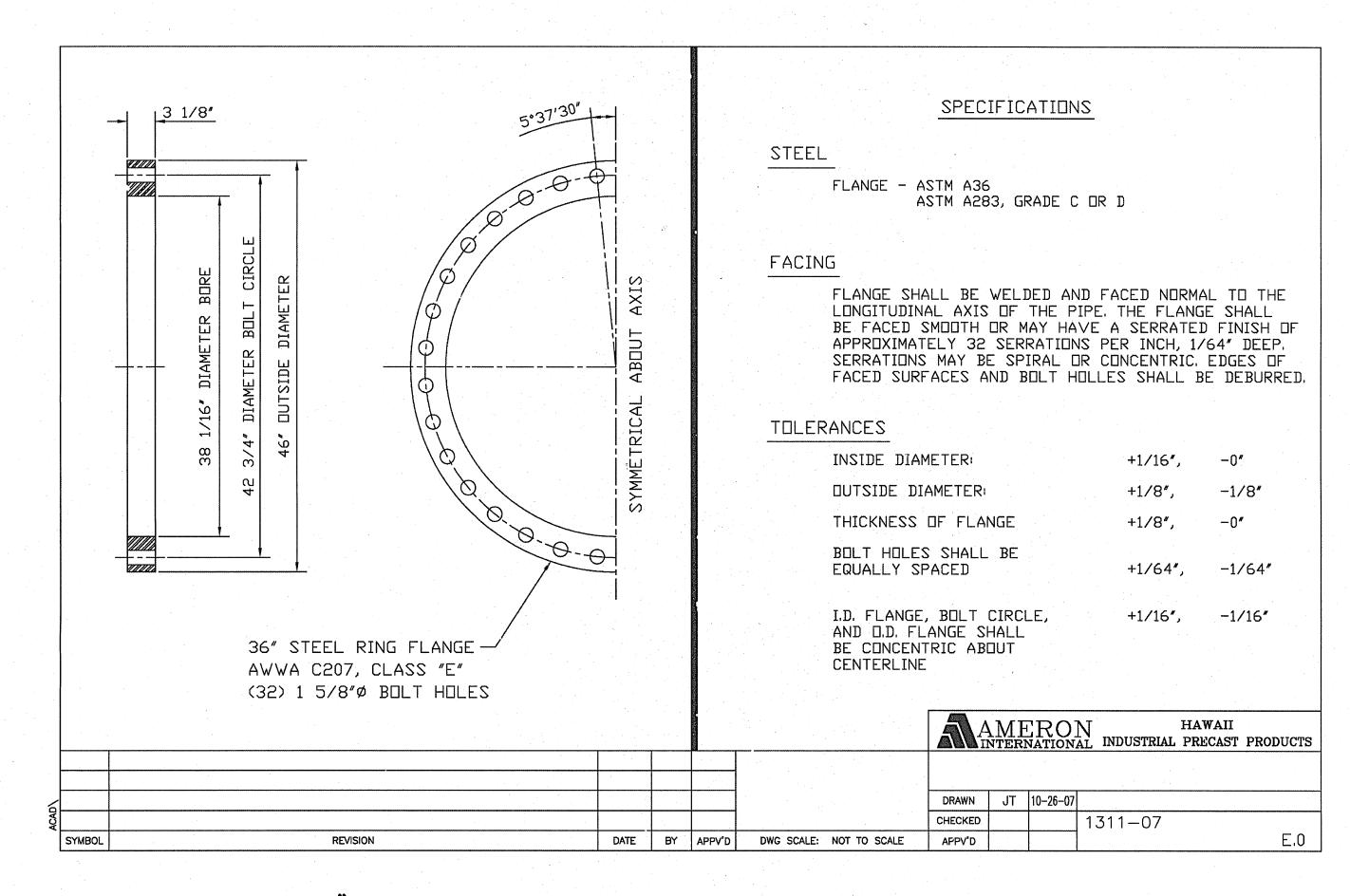




36" AMERON CCP X FLANGE ADAPTER - MALE NOT TO SCALE



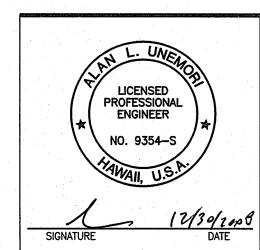
36" AMERON CCP X FLANGE ADAPTER - FEMALE NOT TO SCALE



36" AMERON CCP X FLANGE ADAPTER - BOLT PATTERN SPECIFICATIONS NOT TO SCALE

SHEET ADDED IN ITS ENTIRETY

LETTER DESCRIPTION



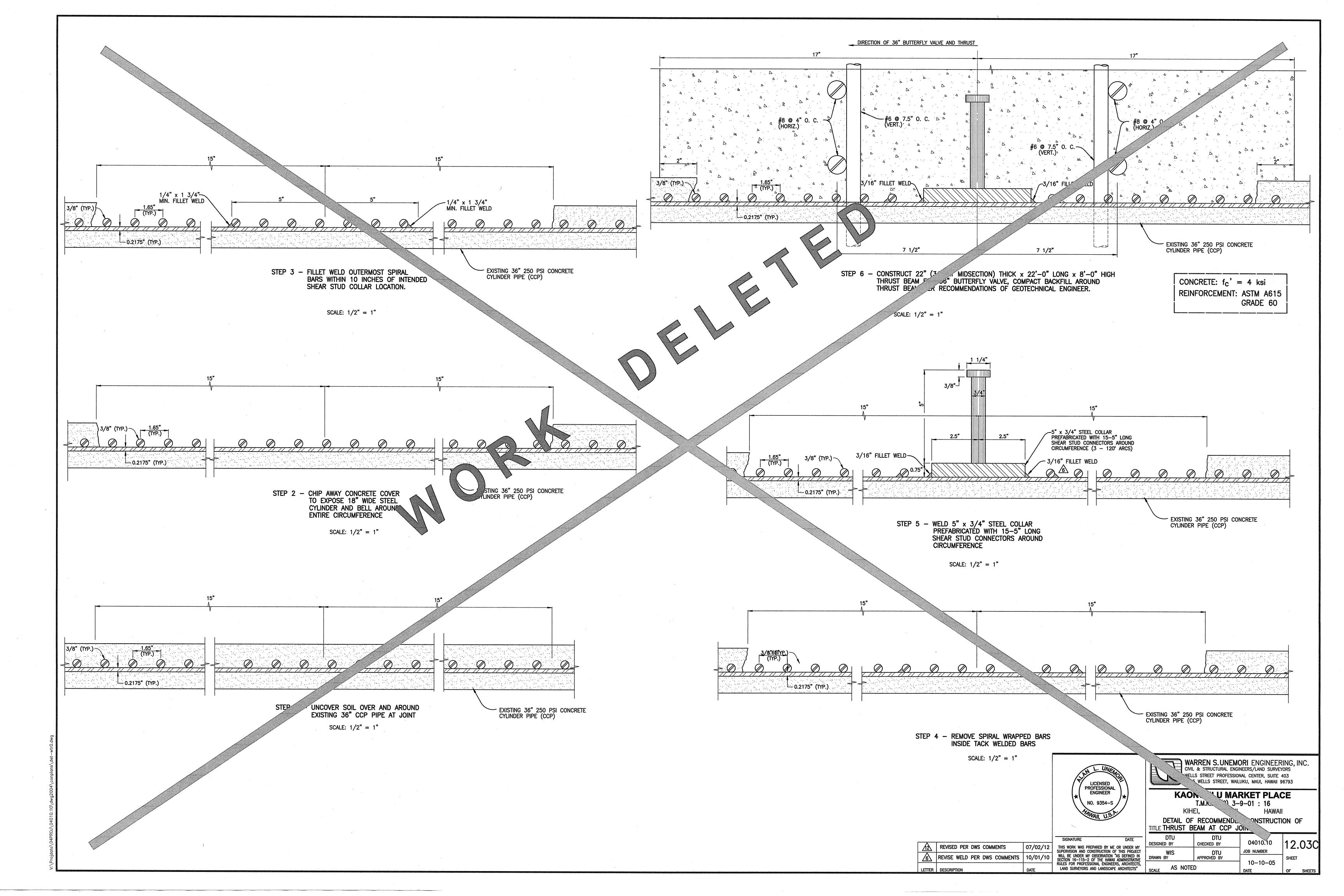
LAND SURVEYORS AND LANDSCAPE ARCHITEC

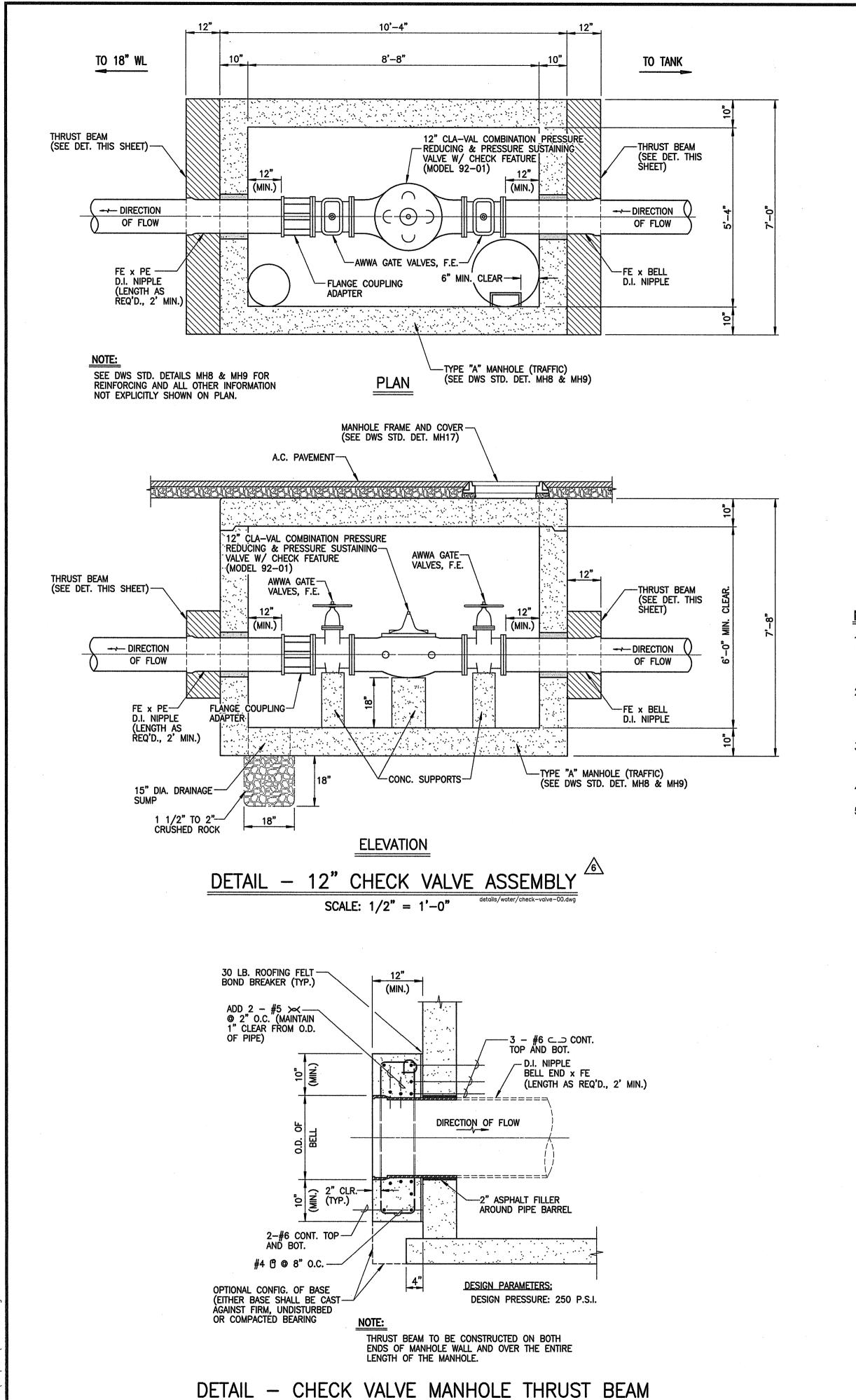
WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16

- DETAILO OF AMEDOM 707 OOD W FLAMOR THIS WORK WAS PREPARED BY ME OR UNDER A SUPERVISION AND CONSTRUCTION OF THIS PROJE WILL BE UNDER MY OBSERVATION "AS DEFINED SECTION 16-115-2 OF THE HAWAII ADMINISTRATI RULES FOR PROFESSIONAL ENGINEERS, ARCHITECT."

	TITLE DETAILS OF	F AMERON 36"	CCP X FLANGE		
E R MY	ALU DESIGNED BY	DTU CHECKED BY		12.03	
OJECT	WIS	DTU	JOB NUMBER	12.00	
ED IN RATIVE	DRAWN BY	APPROVED BY	10 10 05	SHEET	
iects, cts"	AS NOTE	D	10-10-05		
113	SCALE AS NOTE		DATE	OF SHE	

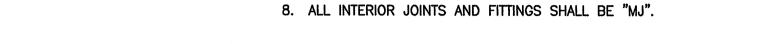


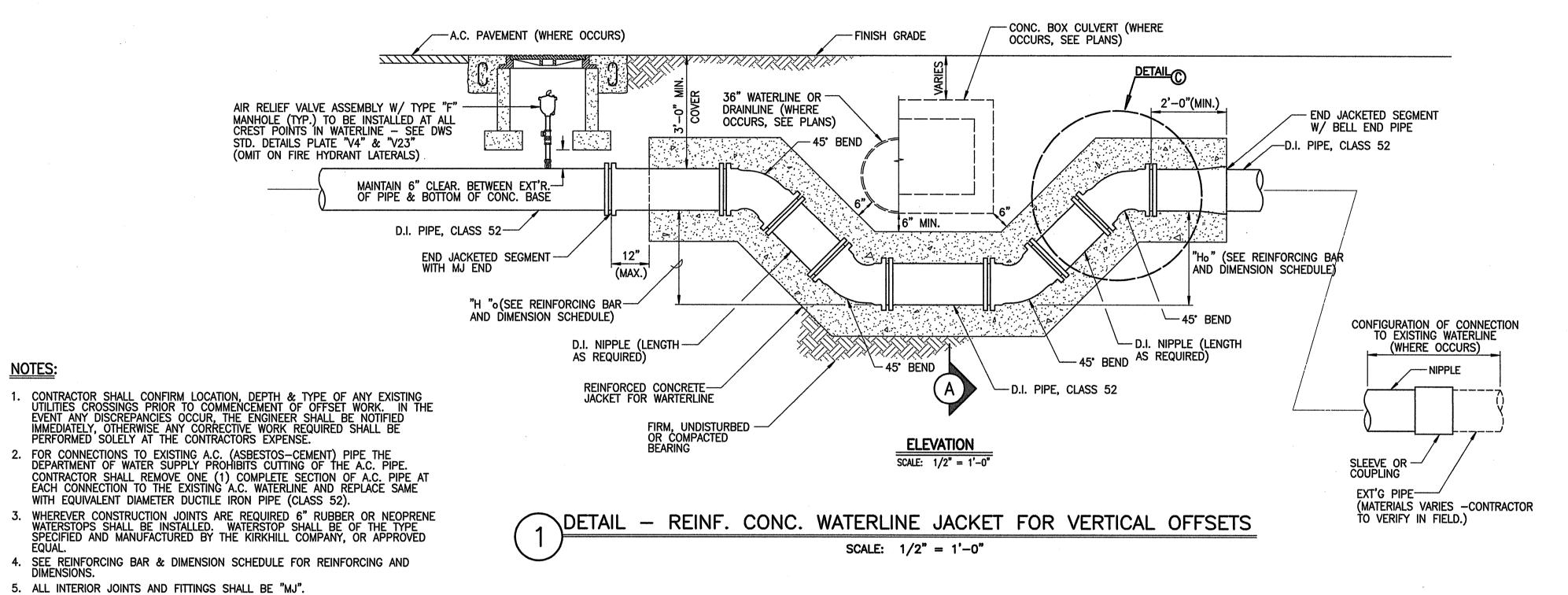


SCALE: 3/4" = 1'-0"

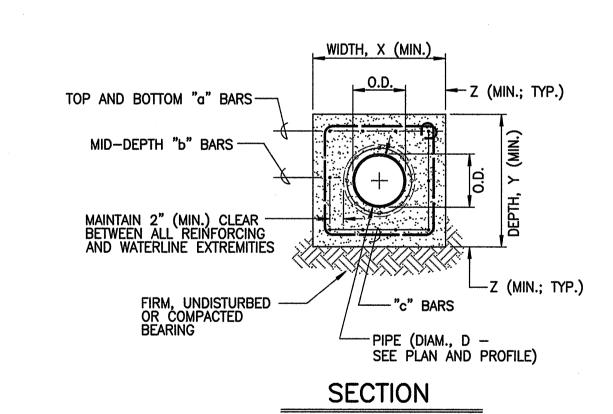
NOTES:

- 1. CONCRETE: f' = 4,000 P.S.I. (MIN.)
- 2. STEEL REINFORCEMENT: f = 60 K.S.I. (ASTM A615 GRADE 60)
- 3. HYDRAULIC DESIGN PRESSURE: 250 P.S.I. 4. CONTRACTOR SHALL SUBMIT CERTIFICATION OF COMPLIANCE WITH ABOVE CRITERIA FOR CONCRETE AND STEEL REINFORCEMENT WITHIN TWO (2) WORKING DAYS AFTER FABRICATION OF STRUCTURE.
- 5. FOR PRE-CAST APPLICATIONS, CONTRACTOR SHALL SUBMIT STRUCTURALLY-STAMPED SHOP DRAWINGS DETAILING LIFTING CONFIGURATION AND INTEGRAL LIFTING HARDWARE AT LEAST TEN (10) WORKING DAYS PRIOR TO FABRICATION OF STRUCTURE.
- 6. FOR CAST-IN-PLACE APPLICATIONS, WHERE HYDRAULIC PRESSURE IS EXPECTED PRIOR TO AT LEAST FOURTEEN (14) DAYS AFTER PLACEMENT OF CONCRETE, CONTRACTOR SHALL PROVIDE TEMPORARY THRUST RESTRAINTS OR RESTRAINED JOINTS (MEGALUG OR APPROVED EQUAL), AS REQUIRED, AND SHALL SUBMIT STRUCTURALLY—STAMPED SHOP DRAWINGS DETAILING SAME AT LEAST TEN (10) WORKING DAYS PRIOR TO FABRICATION OF STRUCTURE.
- 7. CONCRETE JACKETING OF A.C. OR P.V.C. PIPE SHALL NOT BE ALLOWED.

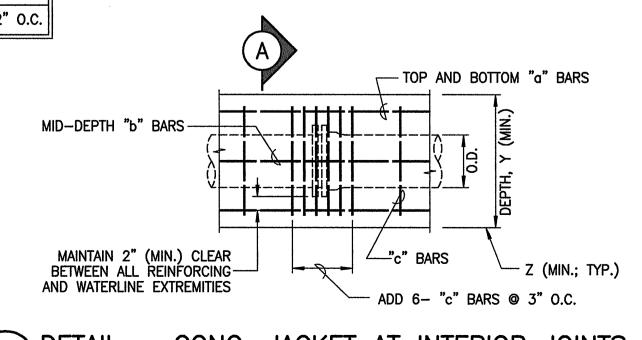




	REINFORCING BAR & DIMENSION SCHEDULE						
DIAMETER	H _o (MAX.)	X	Y	Z	TOP & BOTTOM "a" BARS	"b" BARS	"c" BARS
6" & SMALLER	4'-0"	2'-3"	2'-3"	10"	2-#6 T&B	2-#6	#4 🗗 @ 12" O
6" & SMALLER	5'-0"	2'-3"	2'-3"	10"	2-#6 T&B	2-#6	#4 🗇 @ 12" O
6" & SMALLER	6'-0"	2'-3"	2'-3"	10"	2-#6 T&B	2-#6	#4 🖰 @ 12" O
6" & SMALLER	7'-0"	2'-3"	2'-3"	10"	2-#7 T&B	2-#6	#4 🗇 @ 12" O
6" & SMALLER	8'-0"	2'-3"	2'-3"	10"	2-#7 T&B	2-#6	#4 🗇 @ 12" C
12"	4'-0"	2'-8"	2'-8"	10"	4-#6 T&B	2-#6	#5 🗇 @ 12" C
12"	5'-0"	2'-8"	2'-8"	10"	2-#6 T&B AND 2-#7 T&B	2-#7	#5 🖒 @ 12" C
12"	6'-0"	3'-0"	3'-0"	1'-0"	2-#6 T&B AND 2-#7 T&B	2-#7	#5 🗇 @ 12" C
12"	7'-0"	3'-0"	3'-0"	1'-0"	4-#7 T&B	2-#7	#5 🖰 @ 12" C
12"	8'-0"	3'-0"	3'-0"	1'-0"	5-#7 T&B	2-#7	#5 🗇 @ 12" C
16"	4'-0"	3'-8"	3'-8"	1'-2"	5-#6 T&B	2-#6	#5 🗇 @ 12" C
16"	5'-0"	3'-8"	3'-8"	1'-2"	2-#6 T&B AND 3-#7 T&B	2-#7	#5 🗇 @ 12" C
16"	6'-0"	3'-8"	3'-8"	1'-2"	5-#7 T&B	2-#7	#5 🖰 @ 12" C
16"	7'-0"	4'-0"	4'-0"	1'-4"	4-#8 T&B	2-#8	#5 🖰 @ 12" C
16"	8'-0"	4'-0"	4'-0"	1'-4"	5-#8 T&B	2-#8	#5 🖰 @ 12" C

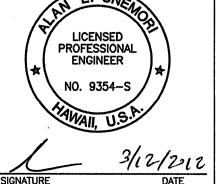


TYP. SECTION -REINF. CONC. WATERLINE JACKET SCALE: 1/2" = 1'-0"



DETAIL - CONC. JACKET AT INTERIOR JOINTS SCALE: 1/2" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT REVISED PER DWS COMMENTS 01/06/12 WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, REVISED 12" CHECK VALVE ASSEMBLY LAND SURVEYORS AND LANDSCAPE ARCHITECTS"



WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE T.M.K.: (2) 3-9-01 : 16 MAUI,

WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS

TITLE WATER DETAILS DTU DTU 04010.10 DESIGNED BY CHECKED BY

JOB NUMBER APPROVED BY 10-10-05 SCALE AS NOTED

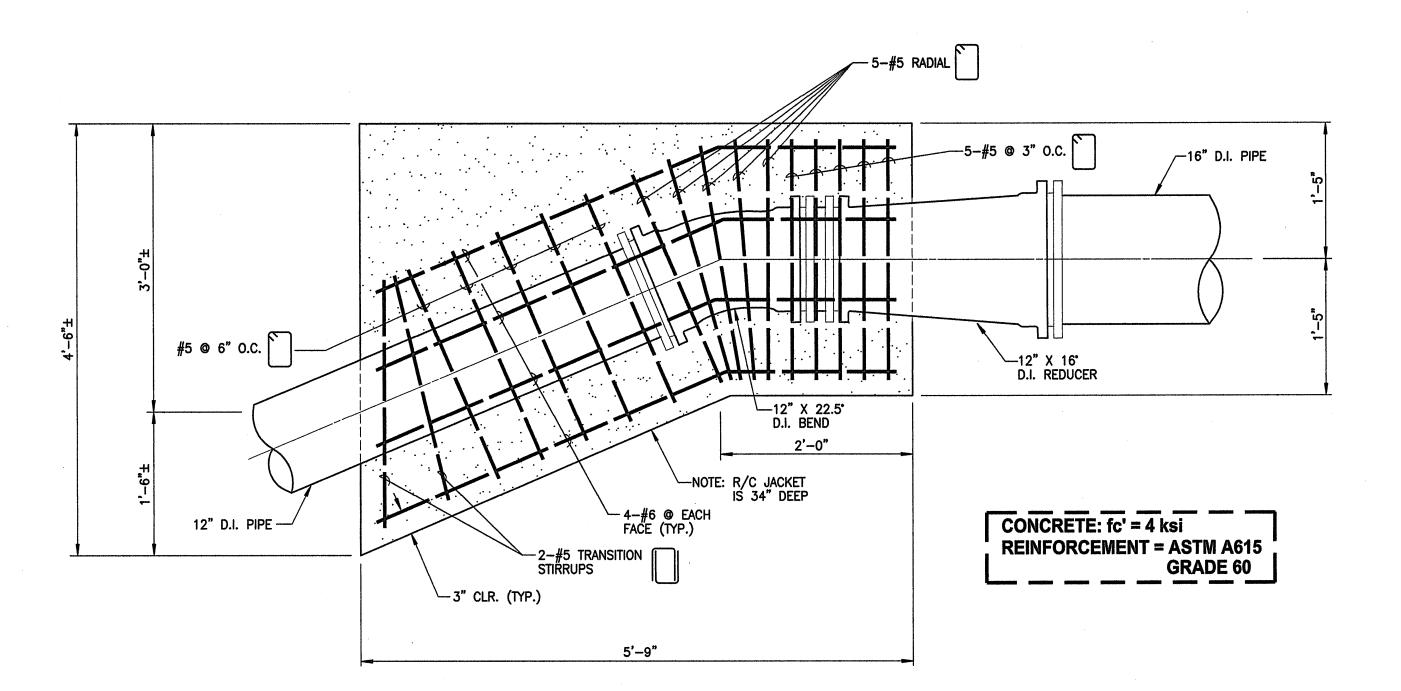
ADD 5−#5 🗗 AS SHOWN

DETAIL - ADDITIONAL

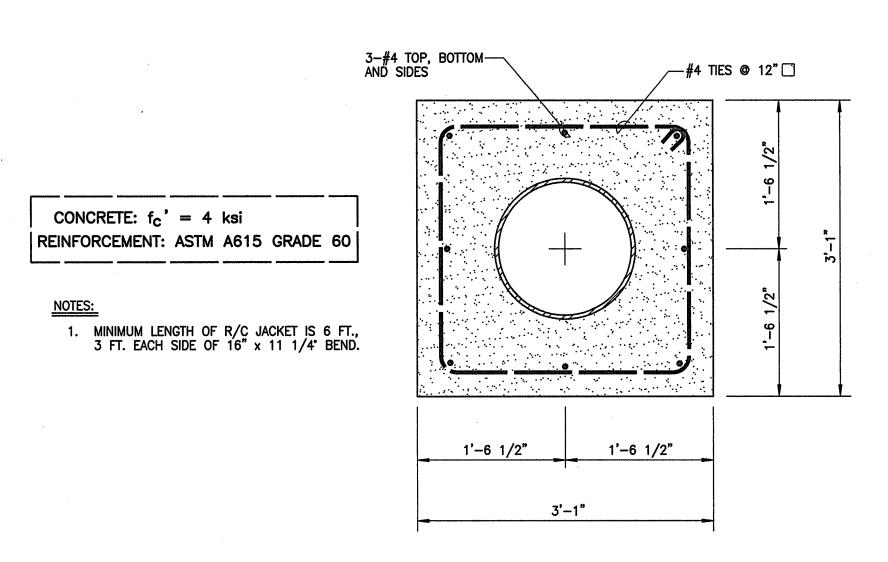
SHOWN - SEE SECTION FOR STD.

REINFORCING

REINFORCEMENT AT BENDS SCALE: 1/2" = 1'-0"



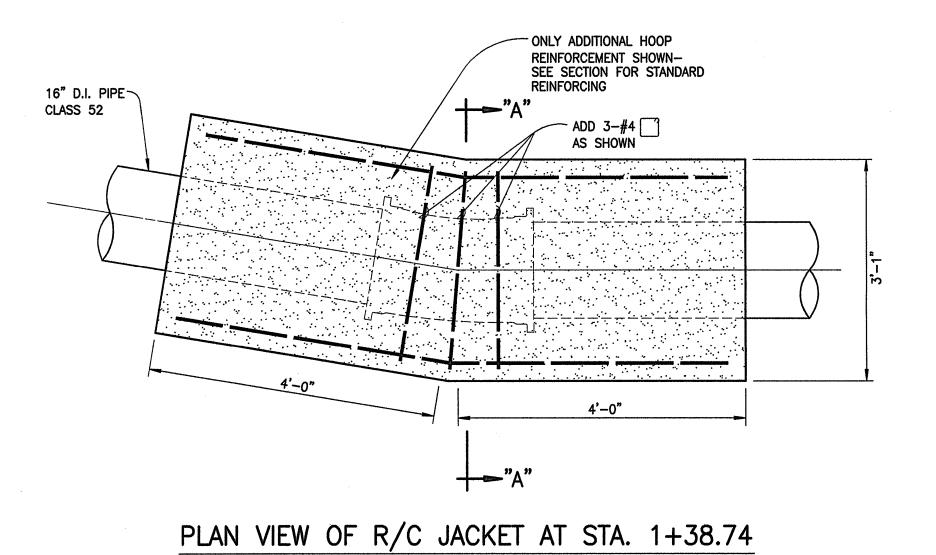
DETAIL FOR HYBRID R/C JACKET SEGMENT SCALE: 1" = 1'-0"



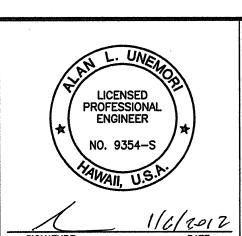
SECTION "A"-"A"

TYPICAL CROSS-SECTION FOR REINFORCED CONCRETE JACKET FOR 16" x 11 1/4° BEND AT STA. 1+38.74

SCALE: 1" = 1' - 0"



SCALE: 3/4" = 1'-0"





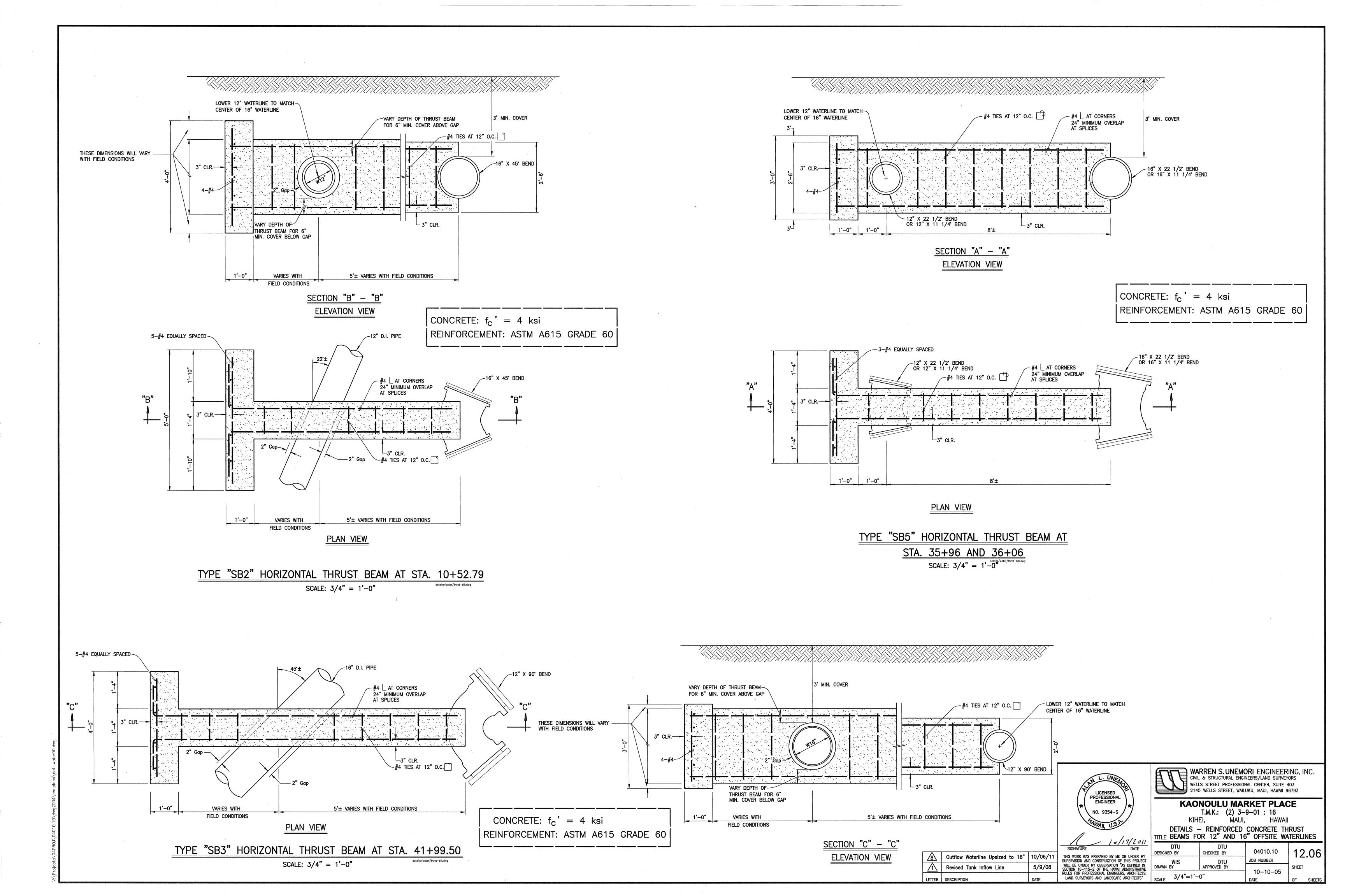
KAONOULU MARKET PLACE T.M.K.: (2) 3-9-01 : 16

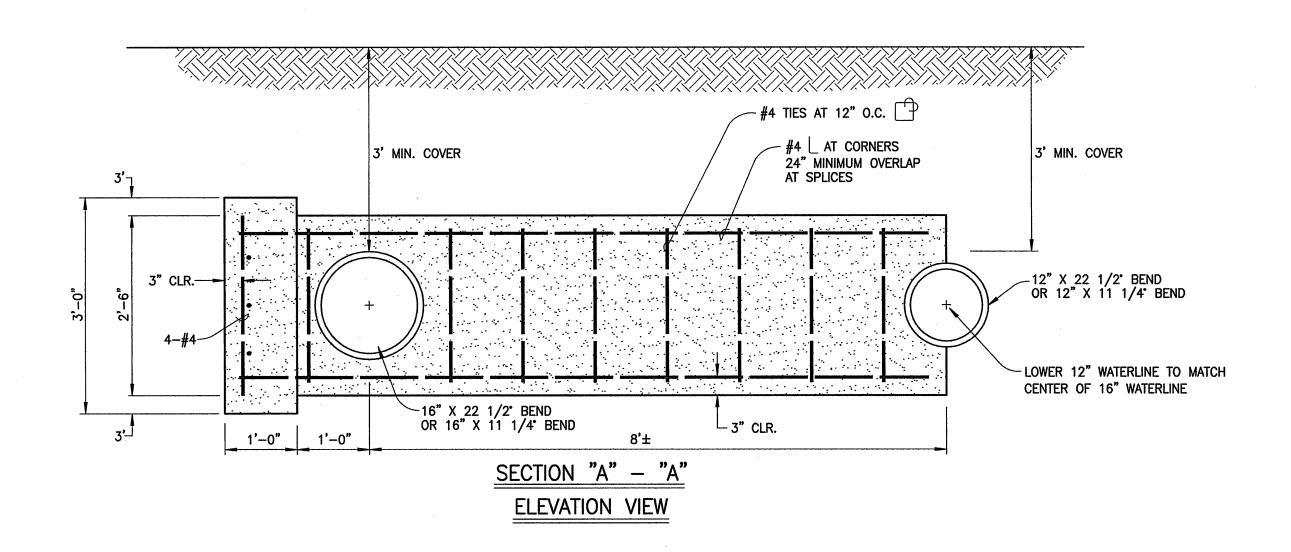
. 7	TITLE DETAILS	- REINFORCED	CONCRETE JA	CKET
2	DTU DESIGNED BY	DTU CHECKED BY	04010.10	12.05
MY JECT IN	WIS DRAWN BY	DTU APPROVED BY	JOB NUMBER	SHEET
TIVE CTS,	7/4" 4' 0"		10-10-05	

			SIGN
10	Revisions Per DWS	01/06/12	THIS WO
8	Outflow Waterline Upsized to 16"	10/06/11	WILL BE SECTION
LETTED	DESCRIPTION	DATE	RULES F

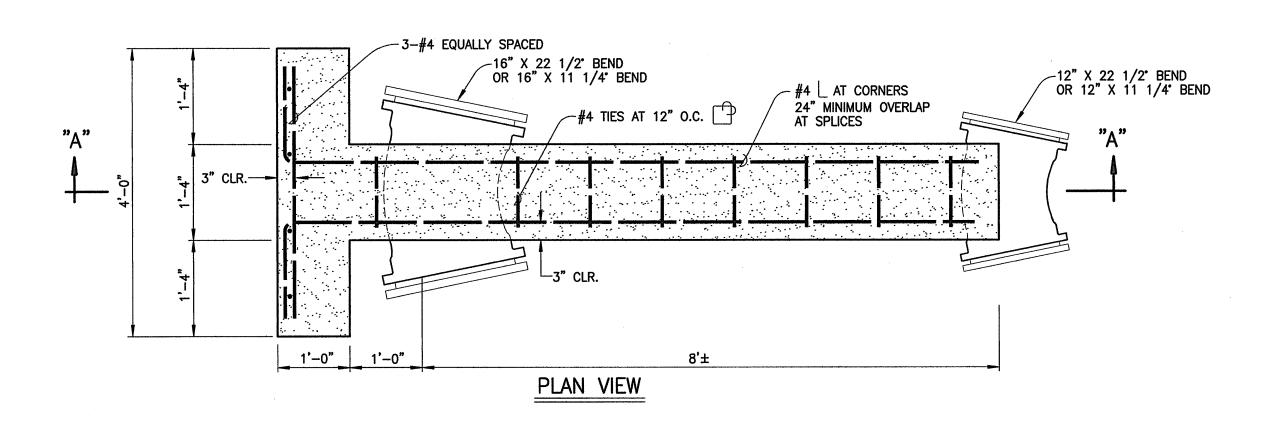
S WORK WAS PREPARED BY ME OR UNDER MY
PERVISION AND CONSTRUCTION OF THIS PROJECT

L BE UNDER MY OBSERVATION "AS DEFINED IN
TION 16-115-2 OF THE HAWAII ADMINISTRATIVE
ES FOR PROFESSIONAL ENGINEERS, ARCHITECTS,
AND SURVEYORS AND LANDSCAPE ARCHITECTS" $\frac{3}{4} = \frac{1}{-0}$



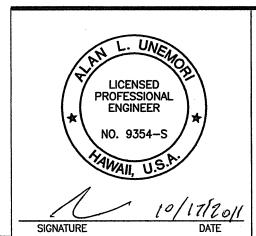


CONCRETE: $f_C' = 4$ ksi REINFORCEMENT: ASTM A615 GRADE 60



TYPE "SB6" HORIZONTAL THRUST BEAM AT STA. 38+71 AND 38+81

SCALE: 3/4" = 1'-0"



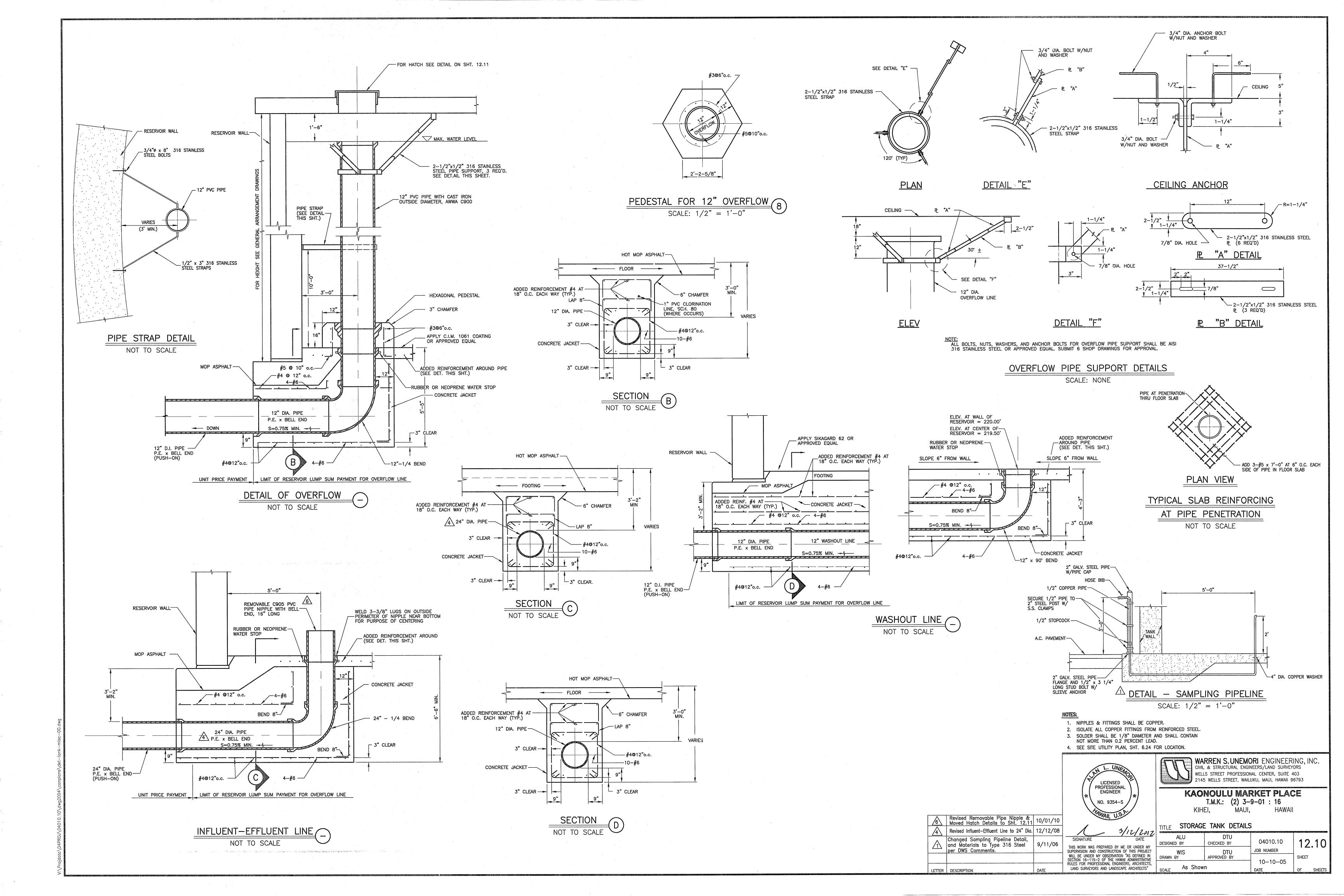


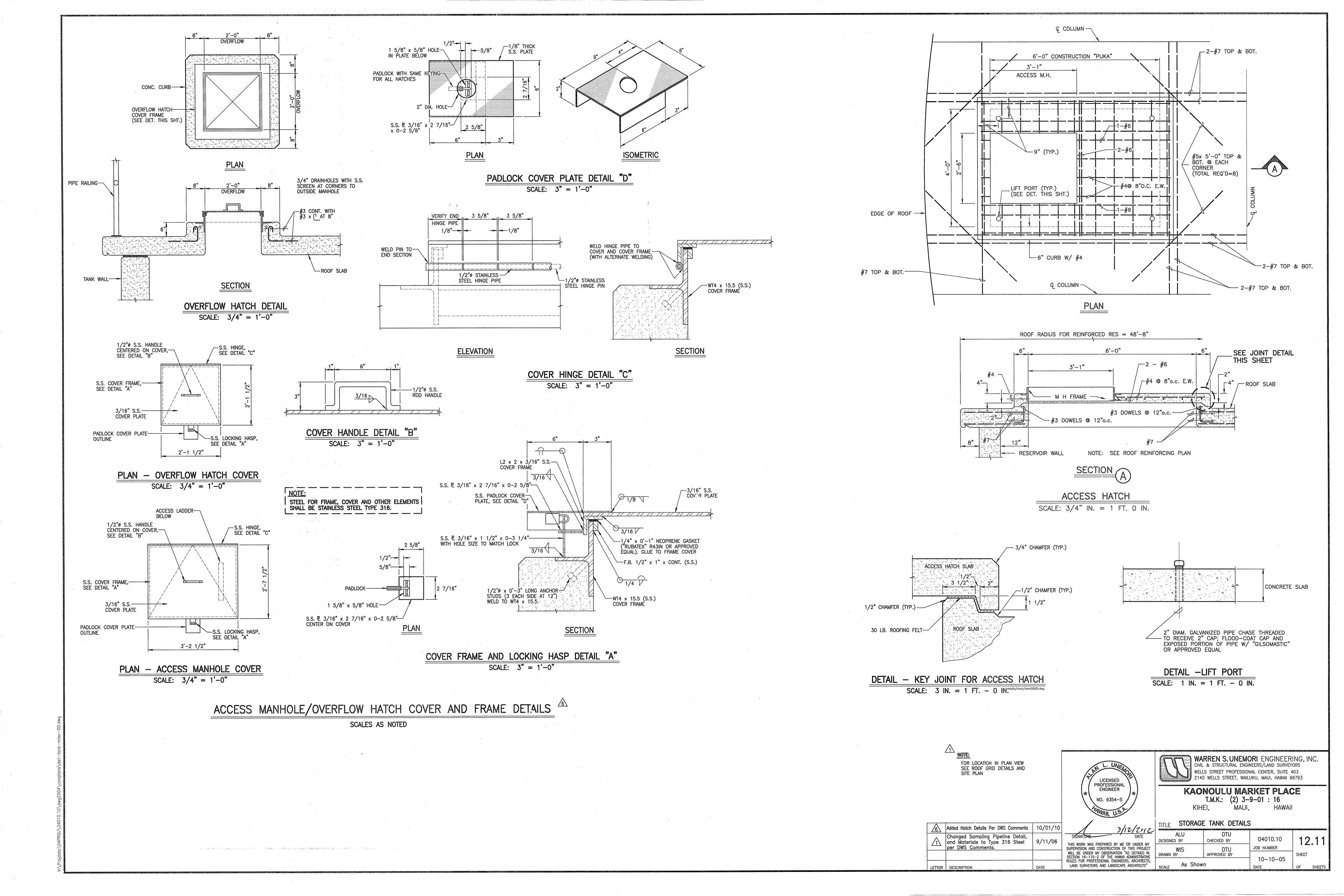
WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

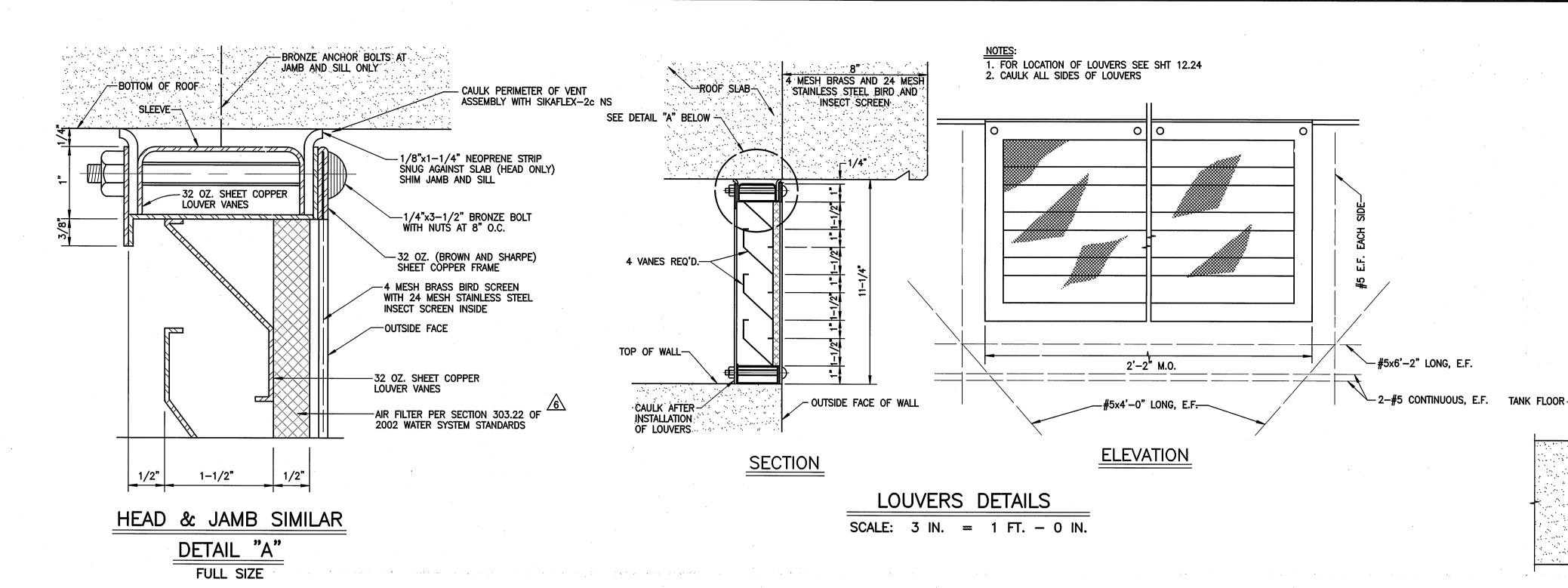
KAONOULU MARKET PLACE
T.M.K.: (2) 3-9-01 : 16
KIHEI, MAUI, HAWAII

DETAILS — REINFORCED CONCRETE THRUST TITLE BEAMS FOR 12" AND 16" OFFSITE WATERLINES

DTU CHECKED BY 04010.10 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS" Outflow Waterline Upsized to 16" 10/06/11 DTU APPROVED BY Revised Tank Inflow Line 10-10-05

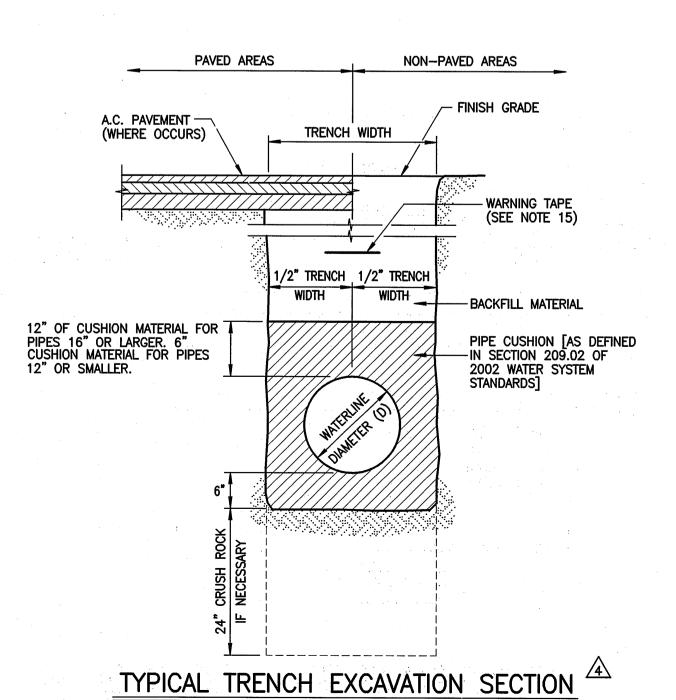






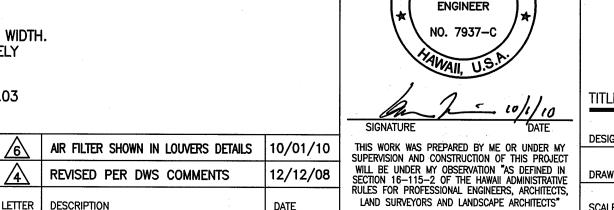
WIDTH OF RESTORATION - SAWCUT BEFORE TRENCHING 12" 30" WIDTH OF TRENCH 12"
(MIN.) AND TEMPORARY (MIN. -SAWCUT BACK 12" (MIN.) FROM TRENCH PATCHING 3 1/2" A.C. (MIX IV)— (SEE NOTE 2) DAMAGED EDGE BEFORE RESURFACING (ALL SIDES) -5" A.C. BASE -14" AGGREGATE BASE COURSE COMPACTED SUBGRADE WARNING TAPE (SEE NOTE 15) -TRENCH BACKFILL MATERIAL (SEE NOTE 6) -PIPE CUSHION MATERIAL 12" WATERLINE-

TYPICAL TRENCH SECTION AND PAVEMENT RESTORATION SECTION ALONG PIILANI HIGHWAY NOT TO SCALE



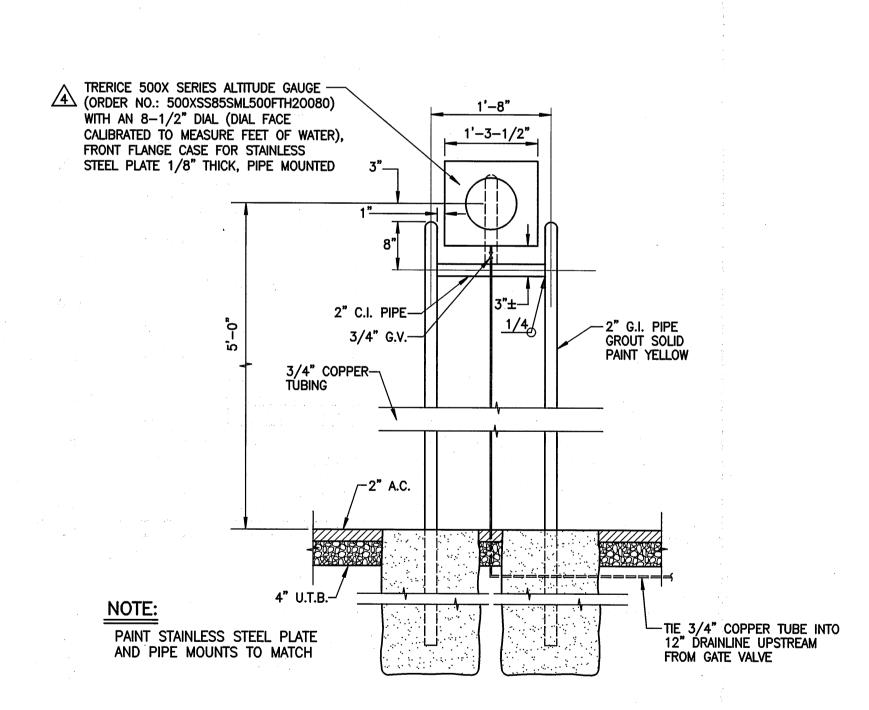
NOTES:

- 1. RESTORE PAVEMENT TO MATCH EXT'G PAVEMENT SECTION.
- 2. MINIMUM THICKNESS OF PAVEMENT:
 PILANI HIGHWAY
 3 1/2" AC PAVEMENT (MIX IV)
 5" A.C. BASE
 - 3 1/2" AC PAVEMENT (MIX IV) 5" A.C. BASE 14" AGGREGATE BASE COURSE COMPACTED SUBGRADE
- 3. EXCAVATION FOR EXTRA 24" WIDTH OF REPAVING TO BE INCLUDED WITH TRENCH EXCAVATION
- 4. THE CONTRACTOR SHALL PROVIDE TEMPORARY COLD PATCH IF RESTORATION WORK CANNOT BE MADE WITHIN 24 HOURS AFTER BACKFILL HAS BEEN COMPLETED.
- 5. PRIME COAT SHALL BE PLACED ON NEW AGGREGATE BASE COURSE AND EXISTING AGGREGATE BASE COURSE PRIOR TO PLACING OF A.C.
- 6. TRENCH BACKFILL AND BED COURSE MATERIAL SHALL CONFORM TO SECTION 703, "AGGREGATES" OF THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2005).
 PIPE CUSHION SHALL FOLLOW DWS STANDARD 209.02.
- 7. INSTALLATION OF WATERLINES SHALL CONFORM TO SECTION 624, "WATER SYSTEM" OF THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2005)."
- 8. TRENCH WIDTH SHALL CONFORM TO TABLE 624.03-1 OF SECTION 624.03(B) OF THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2005).
- 9. CONTRACTOR SHALL INSTALL BIOBARRIER ROOT CONTROL SYSTEM AS MANUFACTURED BY REEMAY, INC. OR APPROVED EQUIVALENT. CONTRACTOR SHALL CUT ALL EXISTING ROOTS PROTRUDING INTO PIPE TRENCH AND PLACE 10 LINEAL FEET OF ROOT BARRIER WHEN TRENCH WALL LIES WITHIN 24" OF EXISTING TREE.
- 10. CONTRACTOR SHALL MAINTAIN AND RESTORE EXISTING SWALES ALONG ROADWAY SHOULDERS TO PROVIDE ADEQUATE DRAINAGE.
- 11. ALL EXPOSED AREAS ARE TO BE GRASSED.
- 12. THE CONTRACTOR SHALL RESTRIPE CENTERLINE, STOPBARS, AND REPLACE ALL PAVEMENTS MARKERS.
- 13. THE TRENCH SECTION IN UNPAVED AREAS SHALL BE BACKFILLED WITH A CROWN APPROXIMATELY THREE (3) INCHES HIGHER THAN THE ADJOINING UNDISTURBED GROUND TO KEEP SURFACE RUNOFF AWAY FROM THE BACKFILLED TRENCH AREA. ADD GEOJUTE OVER BACKFILL TO PREVENT EROSION.
- 14. GRUBBING ALONG THE LENGTH OF WATERLINE SHALL BE LIMITED TO 15 FT. WIDTH. ALL EXPOSED AREAS NOT WITHIN A ROADWAY SHALL BE GRASSED IMMEDIATELY FOLLOWING INSTALLATION OF WATERLINE.
- 15. WARNING TAPE SHALL BE IN ACCORDANCE WITH SECTIONS 212.08 AND 302.03 OF 2002 WATER SYSTEM STANDARDS.



LICENSED

PROFESSIONAL



1'-0"

SECTION

WELD CAP -

3/4" UNION —

3/4" HARD COPPER TUBING —

TANK WALL-

ALTITUDE GAUGE,

PIPE MOUNTED

-3/4" GATE VALVE

2- 2" G.I. PIPE GROUT SOLID, PAINT YELLOW

⚠ DETAIL — LIQUID LEVEL INDICATOR

SCALE: 3/4 IN. = 1 FT. — 0 IN.

WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE T.M.K.: (2) 3-9-01 : 16

KIHEI, MAUI,

TITLE STORAGE TANK DETAILS

ALU DTU CHECKED BY 04010.10

WIS DTU APPROVED BY

SCALE AS Shown

DTU JOB NUMBER

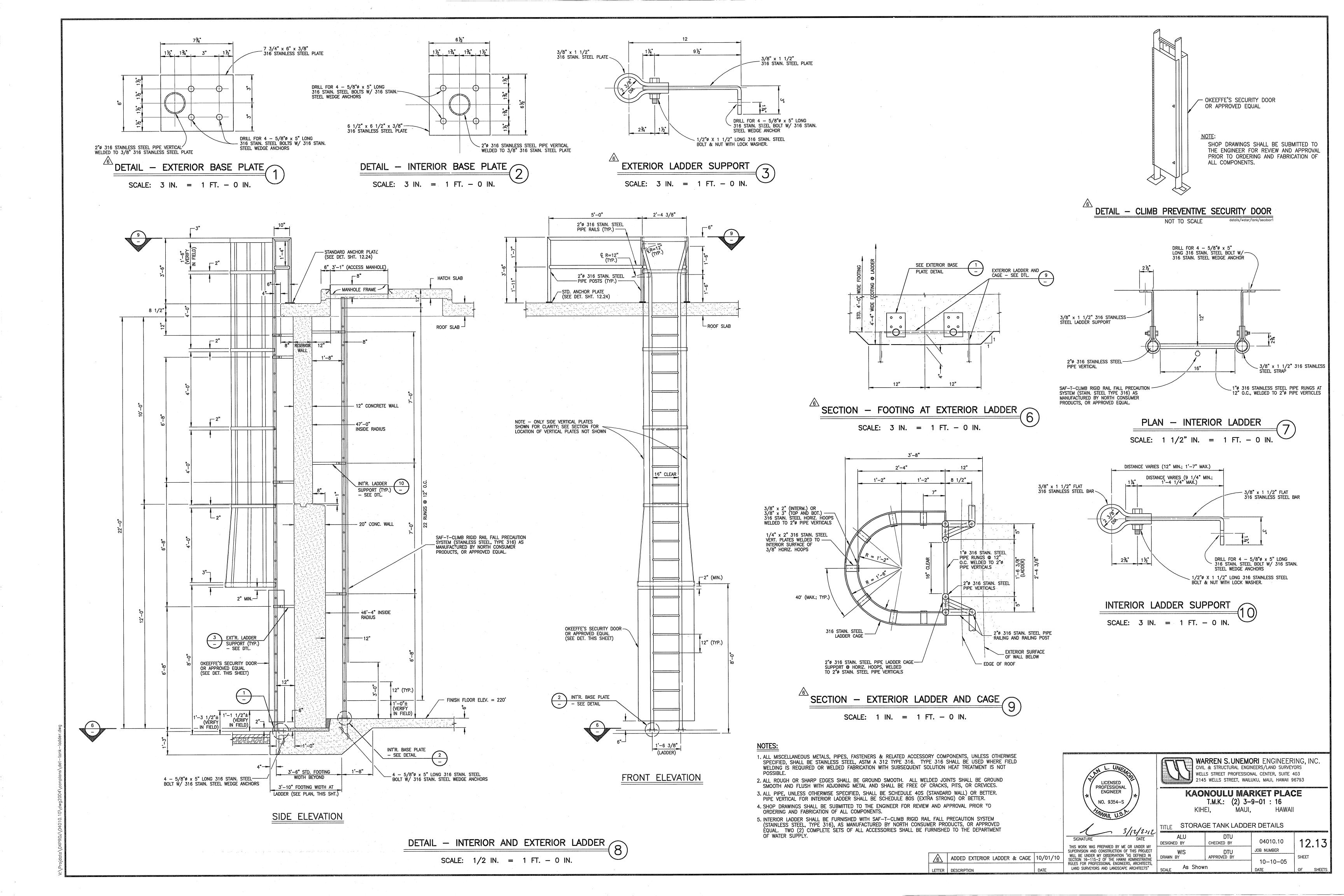
SHEET

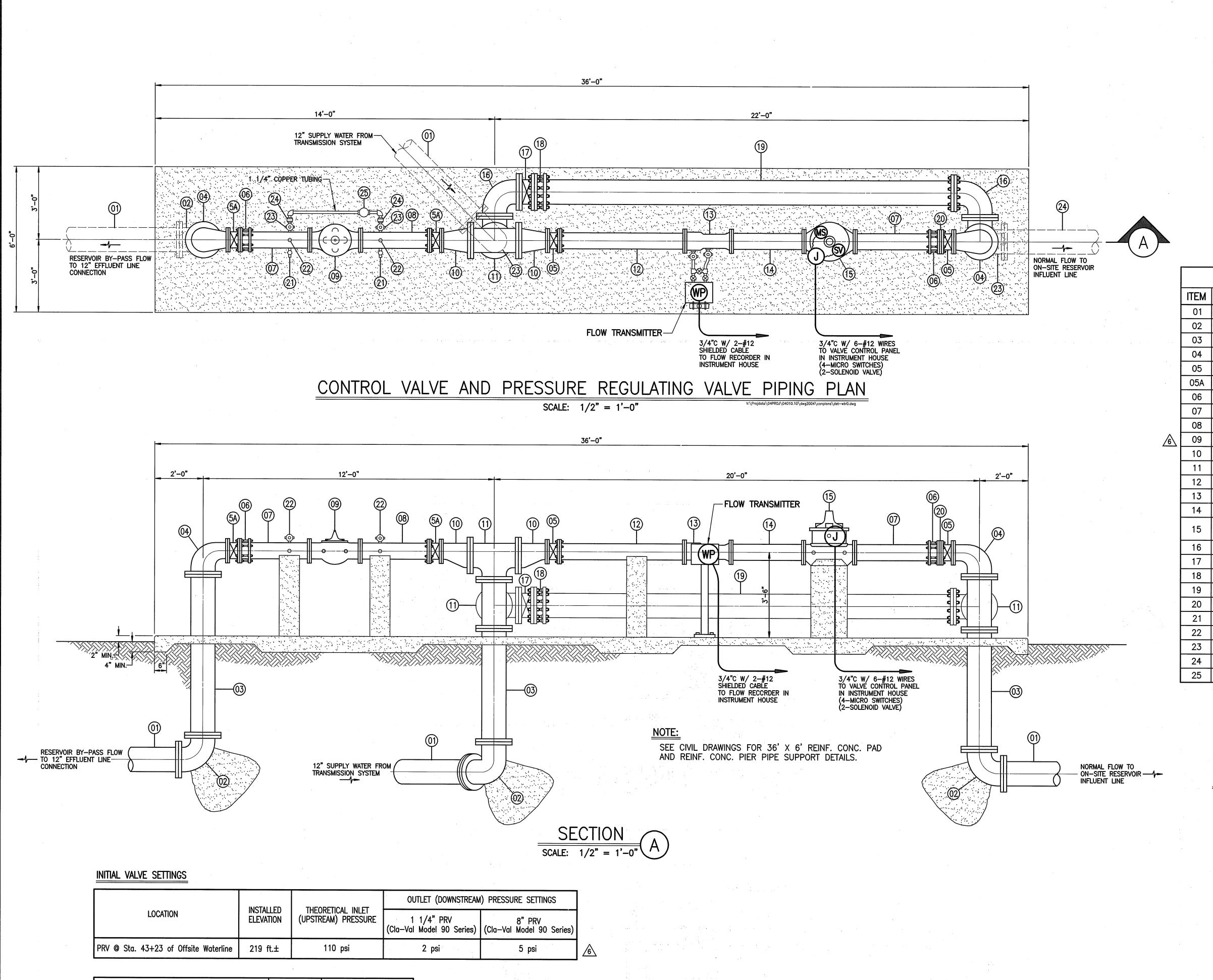
10-10-05
DATE

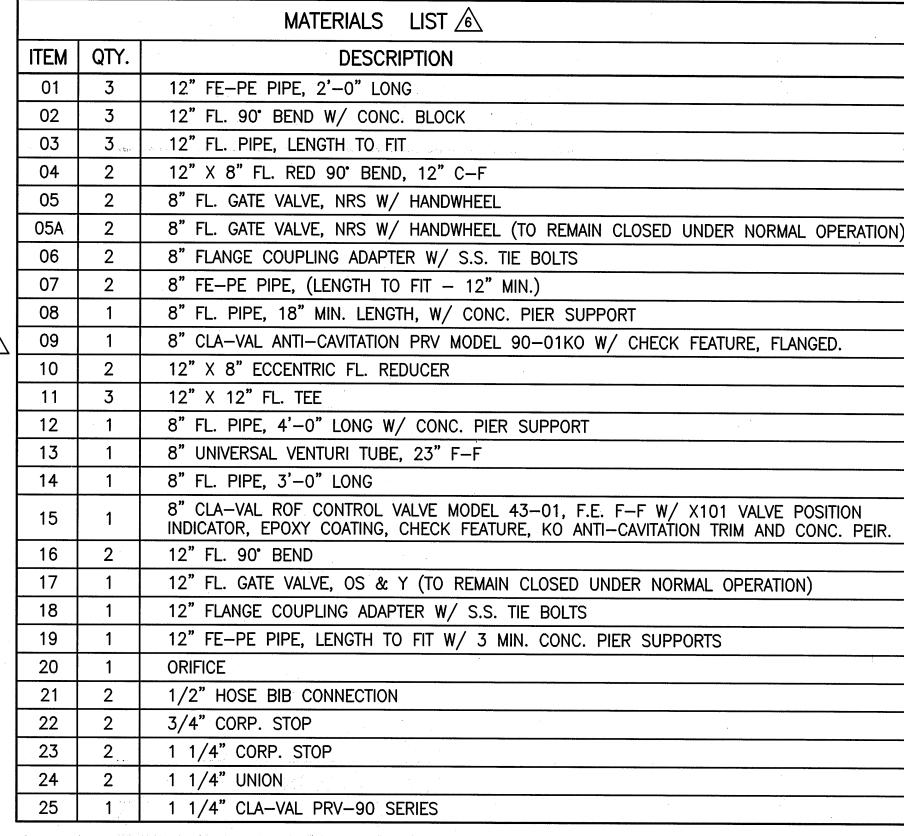
OF SHEETS

FOR OFFSITE WATERLINES

NOT TO SCALE







NOTE

ALL FLANGES AND FITTINGS SHALL BE DUCTILE IRON, RATED FOR 250 PSI WORKING PRESSURE, FACED AND DRILLED IN ACCORDANCE WITH ANSI B16.1 CLASS 125 OR CLASS 250 AS REQUIRED.

LICENSED PROFESSIONAL

LOCATION	INSTALLED ELEVATION	SUSTAINING PRESSURE	
Control Valve @ Sta. 43+23 of Offsite Waterline	219 ft.±	75 psi	

SIGNATURE

SIGNATURE

DATE

SIGNATURE

DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT

WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16–115–2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

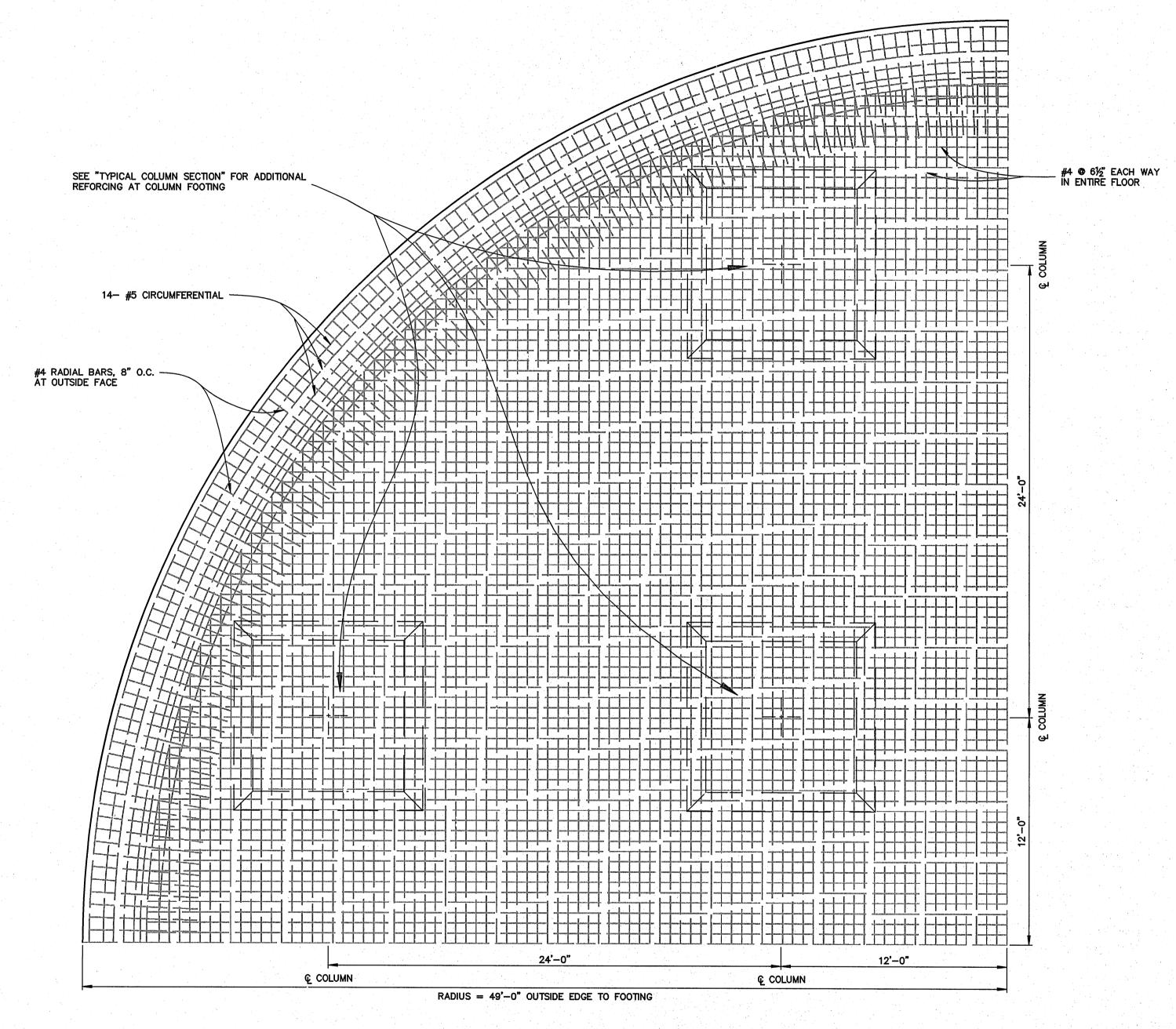


WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE

T.M.K.: (2) 3-9-01 : 16 Kihei, Maui, Hawaii

TITLE STORAGE TANK CONTROL VALVE						
ALU DESIGNED BY	DTU CHECKED BY	04010.10	12	.14		
WIS DRAWN BY	DTU APPROVED BY	JOB NUMBER	SHEET	• • •		
SCALE AS NOTE	10-10-05	0.5	CUEETO			

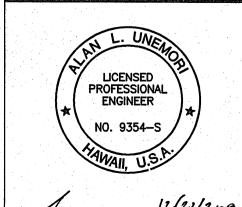


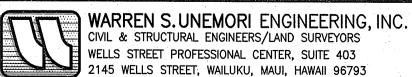
NOTE:
ALL LAPS IN THE SAME PLANE SHALL BE STAGGERED 40 DIAMETERS

REINFORCING STEEL

1/4 FLOOR PLAN

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





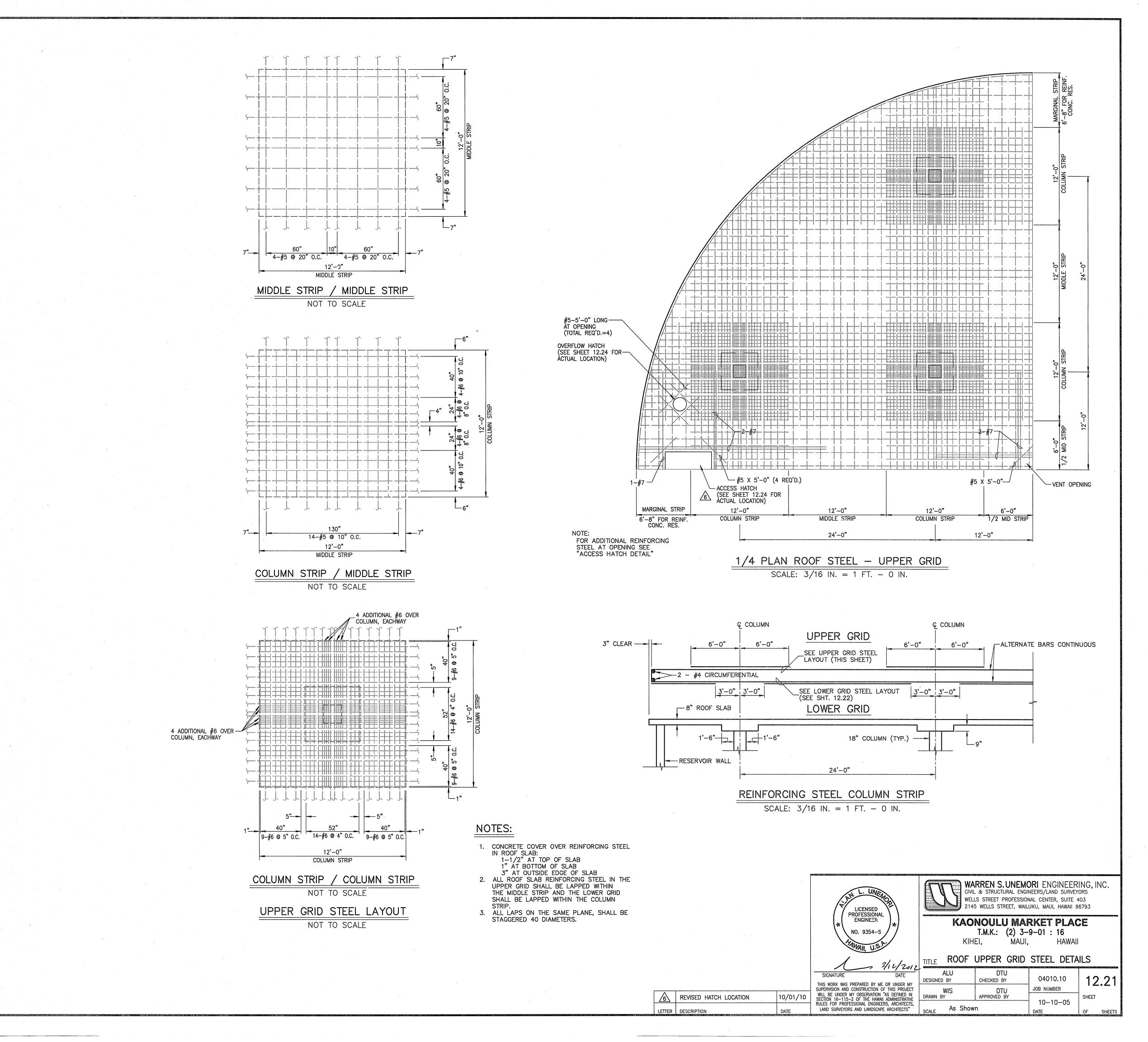
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE

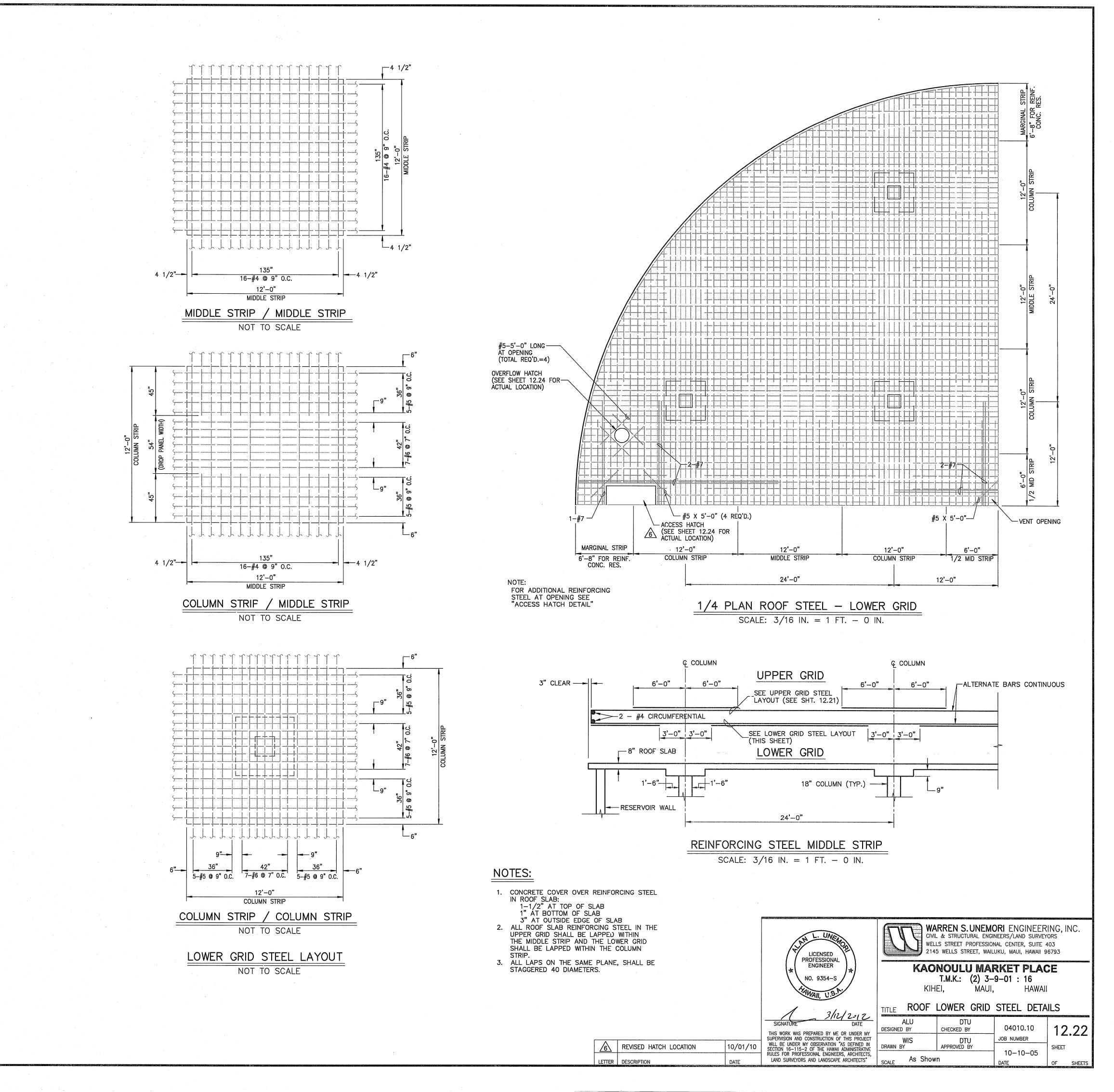
T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16 KIHEI, MAUI, HAWAII

TITLE STORAGE TANK FLOOR STEEL PLAN

1 - 1424260	time and physical restriction for many tief a particular particular and all or observables and believe to the	popularities of the companies and and an expensive contraction of the	A STATE AND THE PROPERTY STREET, AND A STATE OF THE PARTY	N. A. C. Charles of the State of the Control of the Control
SIGNATURE DATE THIS WORK WAS PREPARED BY ME OR UNDER MY	ALU DESIGNED BY	DTU CHECKED BY	04010.10	12 20
SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS "EFINED IN SECTION 16—115—2 OF THE HAWAII ADM:NISTRATIVE	WIS DRAWN BY	DTU APPROVED BY	JOB NUMBER	SHEET
RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"	SCALE As Show	n	10-10-05 DATE	OF SHEETS

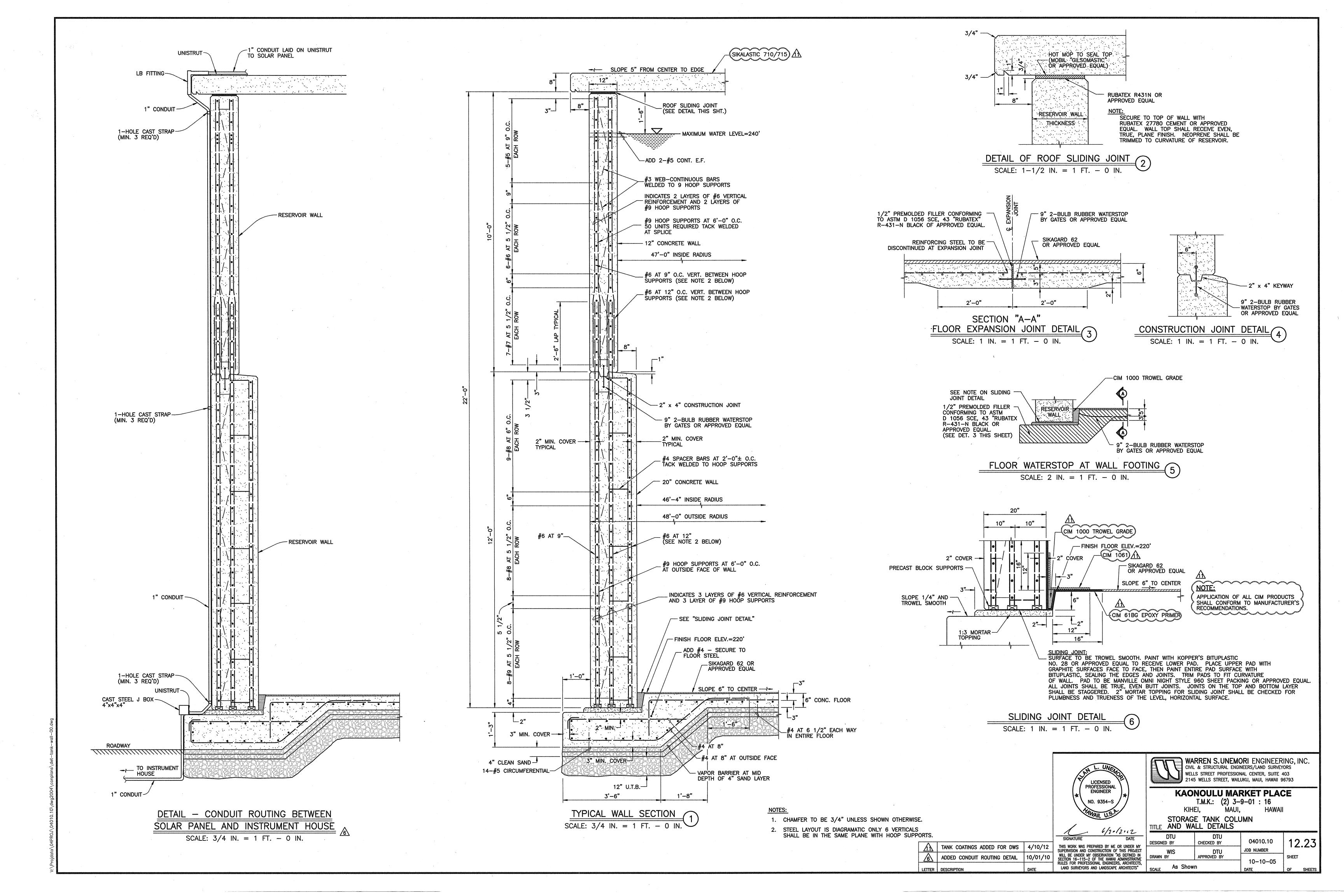


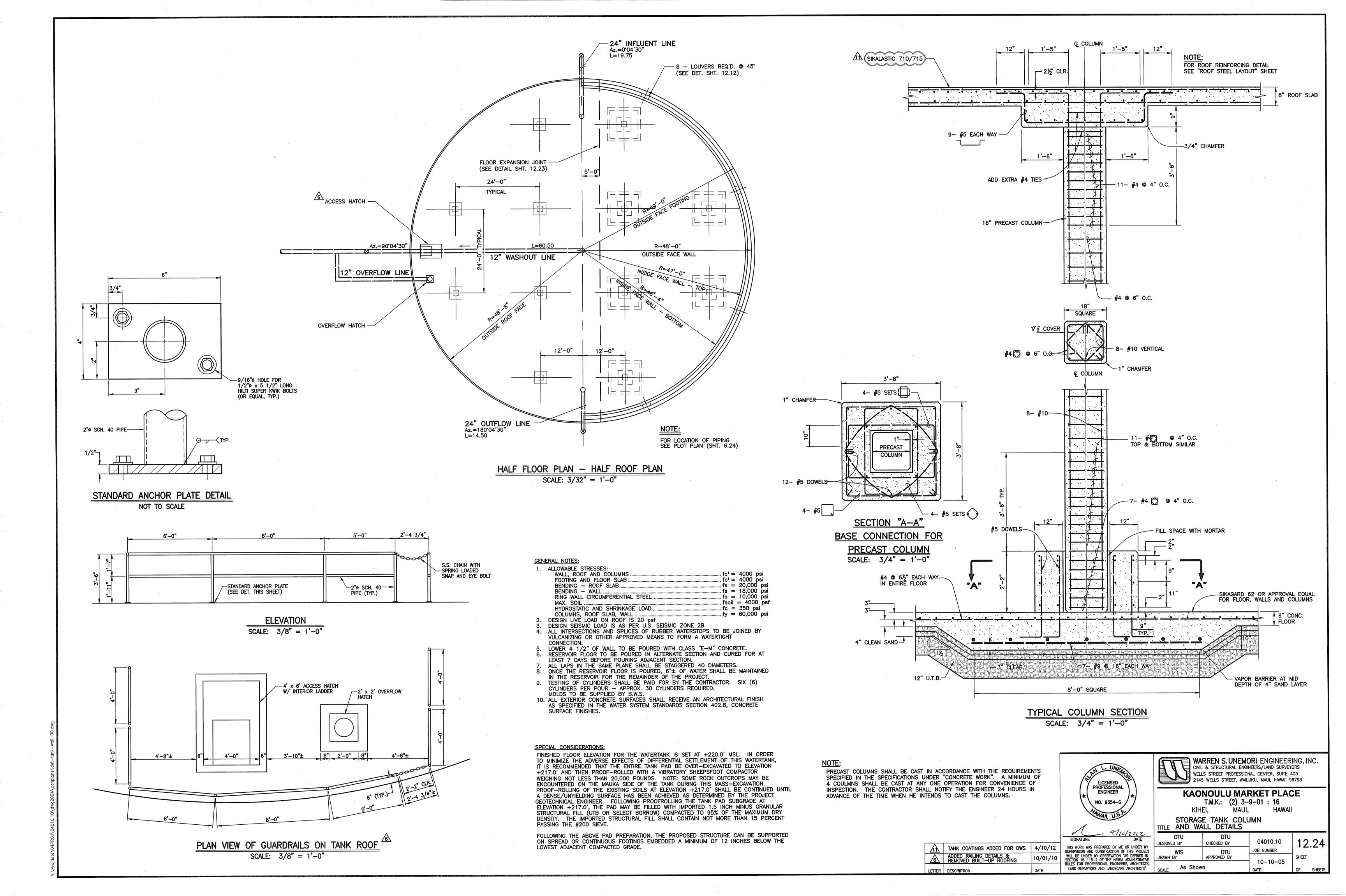
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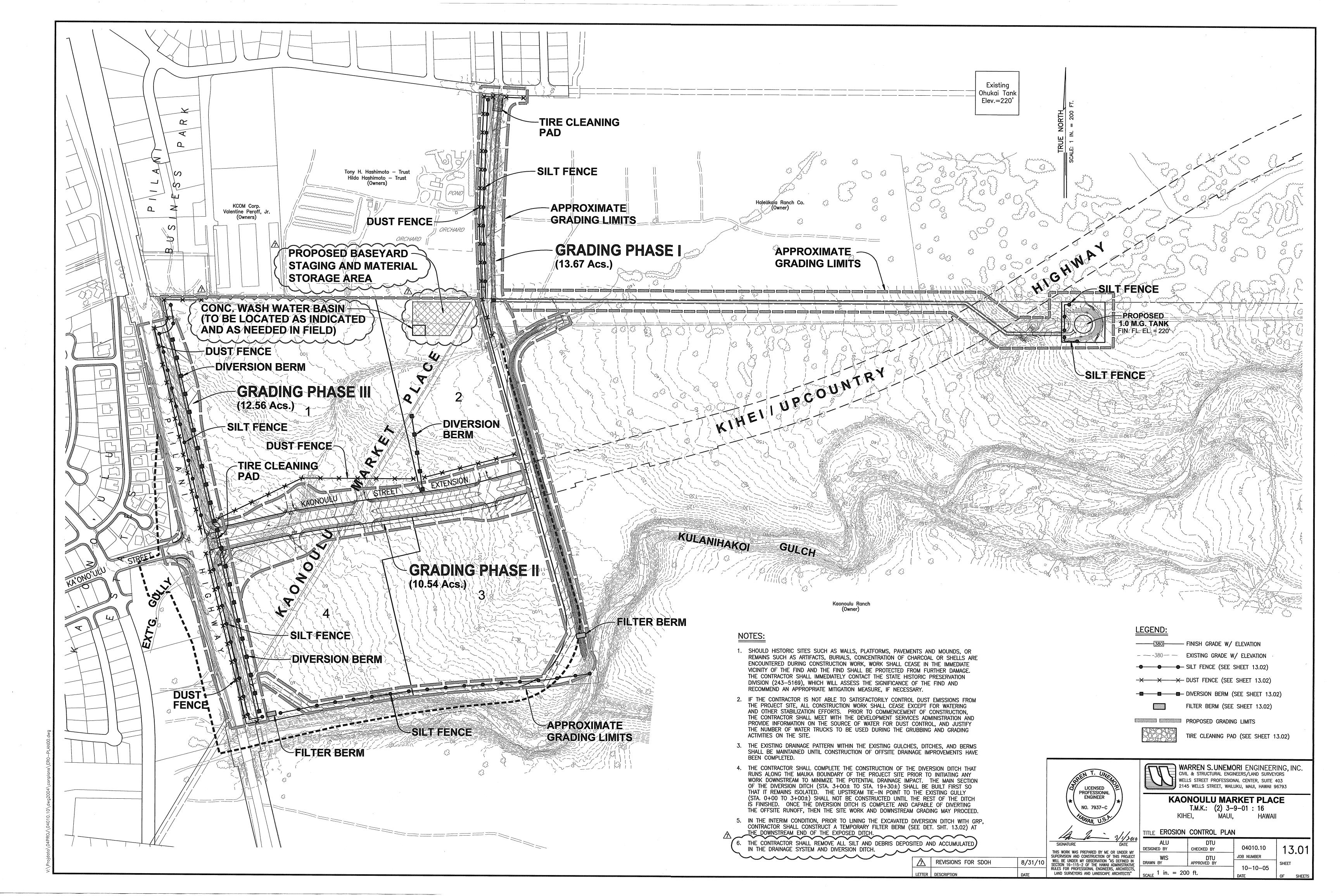


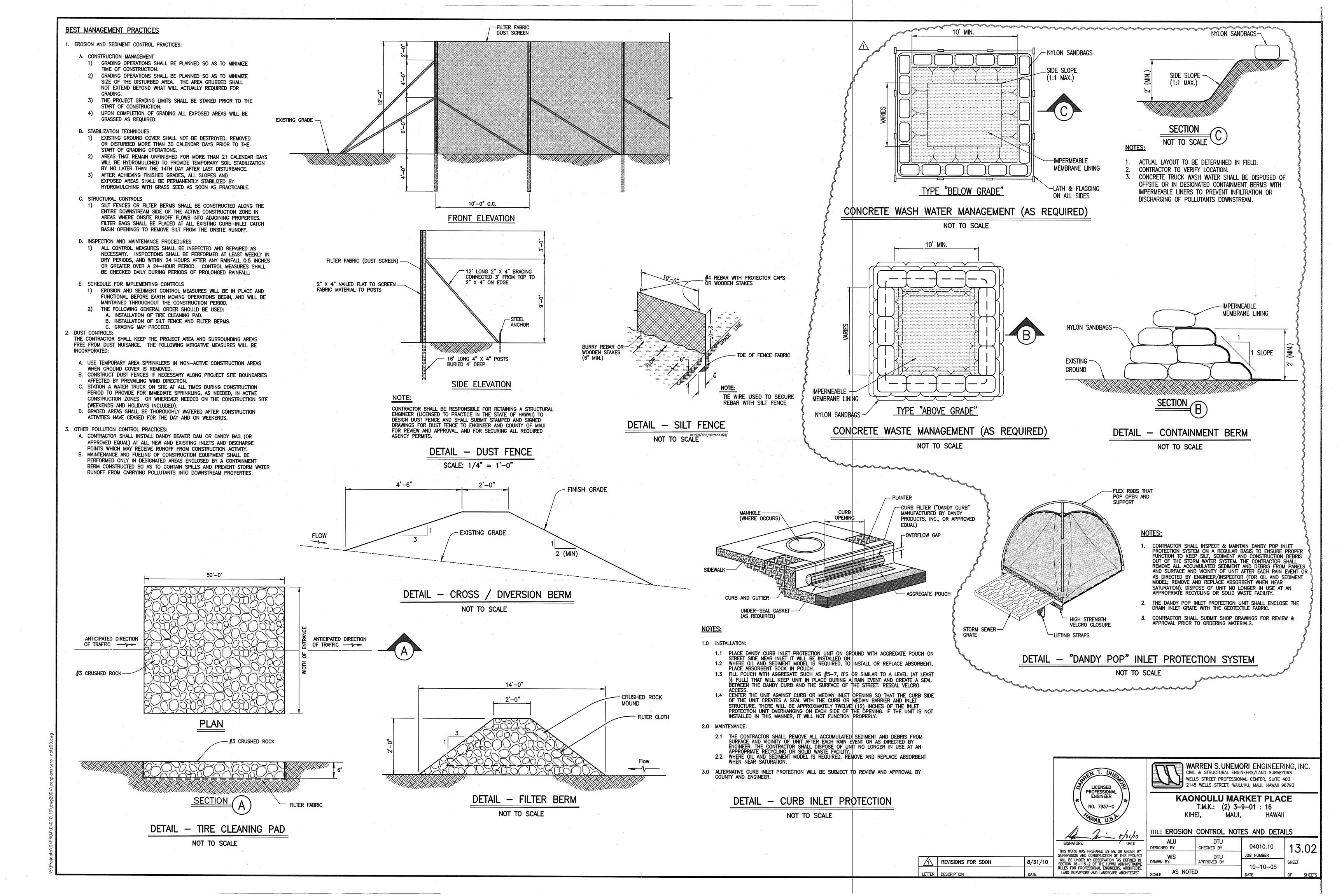
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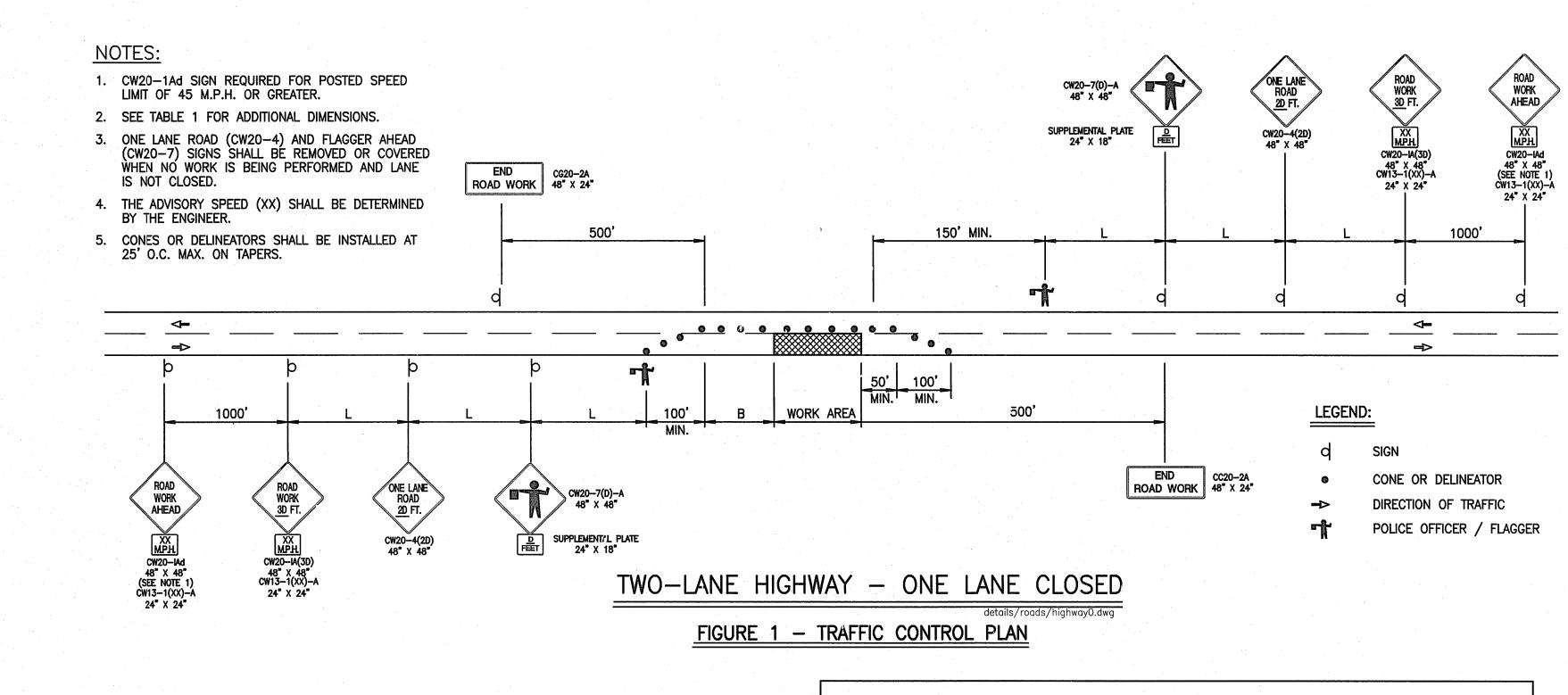
som til til state til 1980-ligger i state at åtte i dødt flaveredøret i dødt attende kommende flaverede skrivet och det en gilt i s











- 1. THE PERMITEE SHALL MAKE MINOR ADJUSTMENTS AT INTERSECTIONS, DRIVEWAYS, BRIDGES, STRUCTURES, ETC., TO FIT FIELD CONDITIONS.
- 2. CONES OR DELINEATORS SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
- 3. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA SHALL BE PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.
- 4. REGULATORY AND WARNING SIGNS WITHIN THE CONSTRUCTION ZONE THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED. ALL SIGNS SHALL BE RESTORED UPON COMPLETION OF WORK.
- 5. FLAGGERS AND/OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
- 6. WHEN REQUIRED BY THE ISSUING OFFICE, THE PERMITEE SHALL INSTALL A FLASHING ARROW SIGNAL AS SHOWN ON THE TRAFFIC CONTROL PLANS.
- 7. SIGNS SPACING (L), TAPER LENGTHS (T) AND SPACINGS OF CONES OR DELINEATORS SHALL BE AS SHOWN IN TABLE 1, UNLESS OTHERWISE NOTED ON THE TRAFFIC CONTROL PLANS.
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- 12. REPLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS UPON COMPLETION OF WORK.

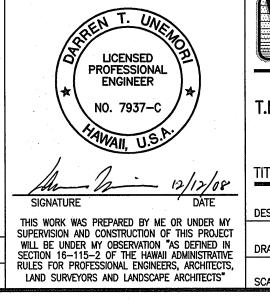
Т	ABLE 1 F	OR TRAF	FIC CON	TROL P	LAN		
POSTED SPEED	SIGN SPACING (L)	TAPER L (F	ENGTH (T) EET)	LONGITUDINAL BUFFER	SPA DEL	ACING OF LINEATORS	CONES (FEET)
LIMIT ① (M.P.H)	(FEET)	W = 12' OR LESS ②	W = GREATER THAN 12' ②	SPACE (B) (FEET)	TAPER	TANGENT	WOR
20	250	200	W x 17	35	20	20	1

(M.P.H)	(FEET)	W = 12' OR LESS ②	W = GREATER THAN 12' ②	SPACE (B) (FEET)	TAPER	TANGENT	WORK AREA
20	250	200	W x 17	35	20	20	10
25	250	200	W x 17	55	25	25	10
30	250	250	W x 20	85	30	30	10
35	250	250	W x 20	120	35	35	10
40	500	350	W x 30	170	40	40	10
45	500	550	W x 45	220	45	45	10
50	1000	600	W × 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10

- 1 USE ADVISORY SPEEDS WHEN POSTED.
- ② W = WIDTH OF LANE, SHOULDER, OR OFFSET.
- 3 NOT APPLICABLE FOR TWO-LANE HIGHWAYS.

TYPICAL TRAFFIC CONTROL PLAN WITHIN COUNTY RIGHT-OF-WAY

NOT TO SCALE





WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

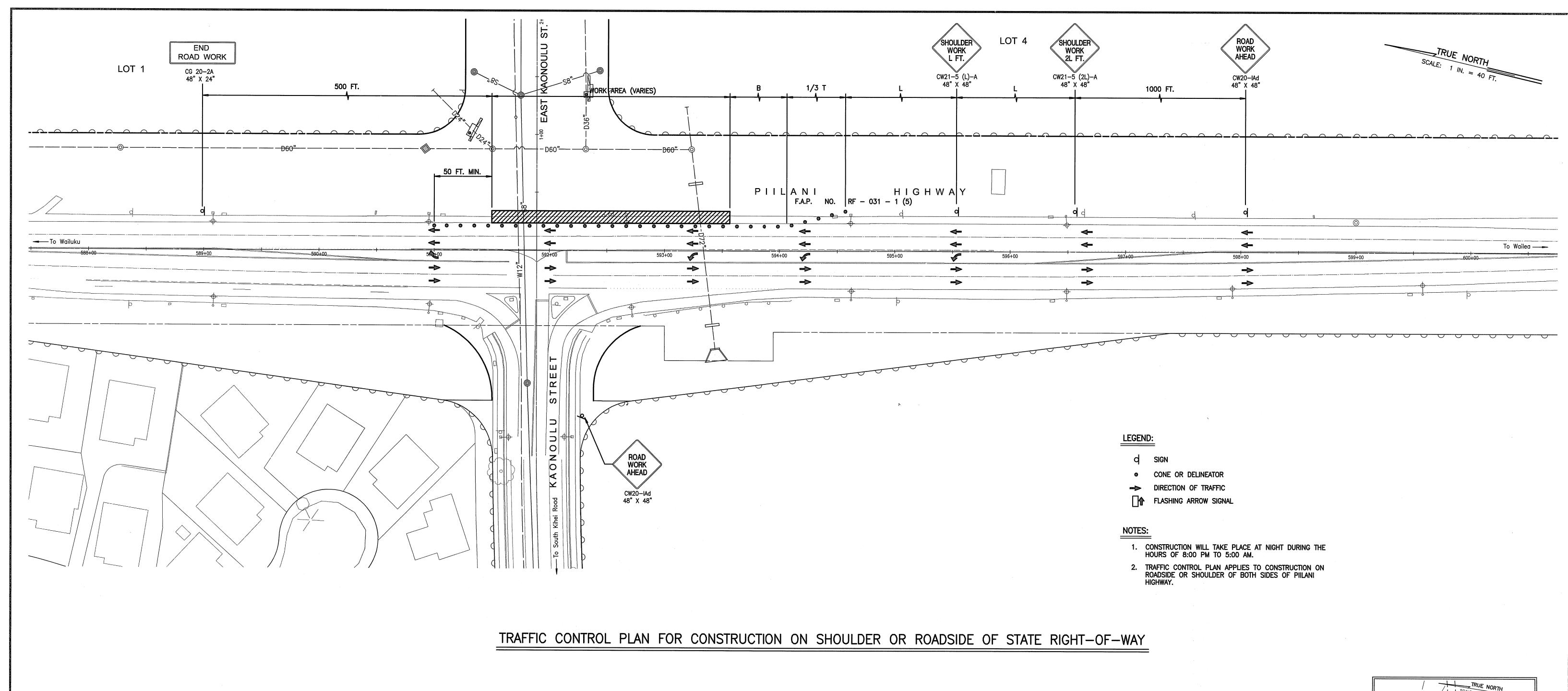
KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16 KIHEI, MAUI,

TITLE TRAFFIC CONTROL PLAN - PIILANI HIGHWAY 04010.10 DESIGNED BY CHECKED BY

JOB NUMBER APPROVED BY 10-10-05 $|_{SCALE}$ 1 in. = 40 ft.

LETTER DESCRIPTION

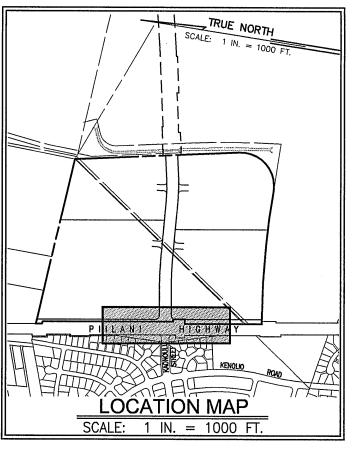
HAWAII

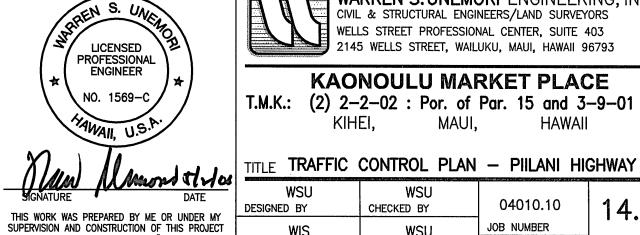


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- 5. FLAGGERS AND/OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
- 6. WHEN REQUIRED BY THE ISSUING OFFICE, THE PERMITEE SHALL INSTALL A FLASHING ARROW SIGNAL AS SHOWN ON THE TRAFFIC CONTROL PLANS.
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TABLE 1 FOR TRAFFIC CONTROL PLAN							
POSTED SPEED	SIGN SPACING (L)	TAPER LENGTH (T) (FEET)		LONGITUDINAL BUFFER	SPACING OF CONES OR DELINEATORS (FEET) ③		
LIMIT ① (M.P.H)	SIGN SPACING (L)	W = 12' OR LESS ②	W = GREATER THAN 12' ②	SPACE (B) (FEET)	TAPER	TANGENT	WORK AREA
20	250	200	W x 17	35	20	20	10
25	250	200	W x 17	55	25	25	10
30	250	250	W x 20	85	30	30	10
35	250	250	W × 20	120	35	35	10
40	500	350	W × 30	170	40	40	10
45	500	550	W x 45	220	45	45	10
50	1000	600	W x 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10

- 1 USE ADVISORY SPEEDS WHEN POSTED.
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- (3) NOT APPLICABLE FOR TWO-LANE HIGHWAYS.

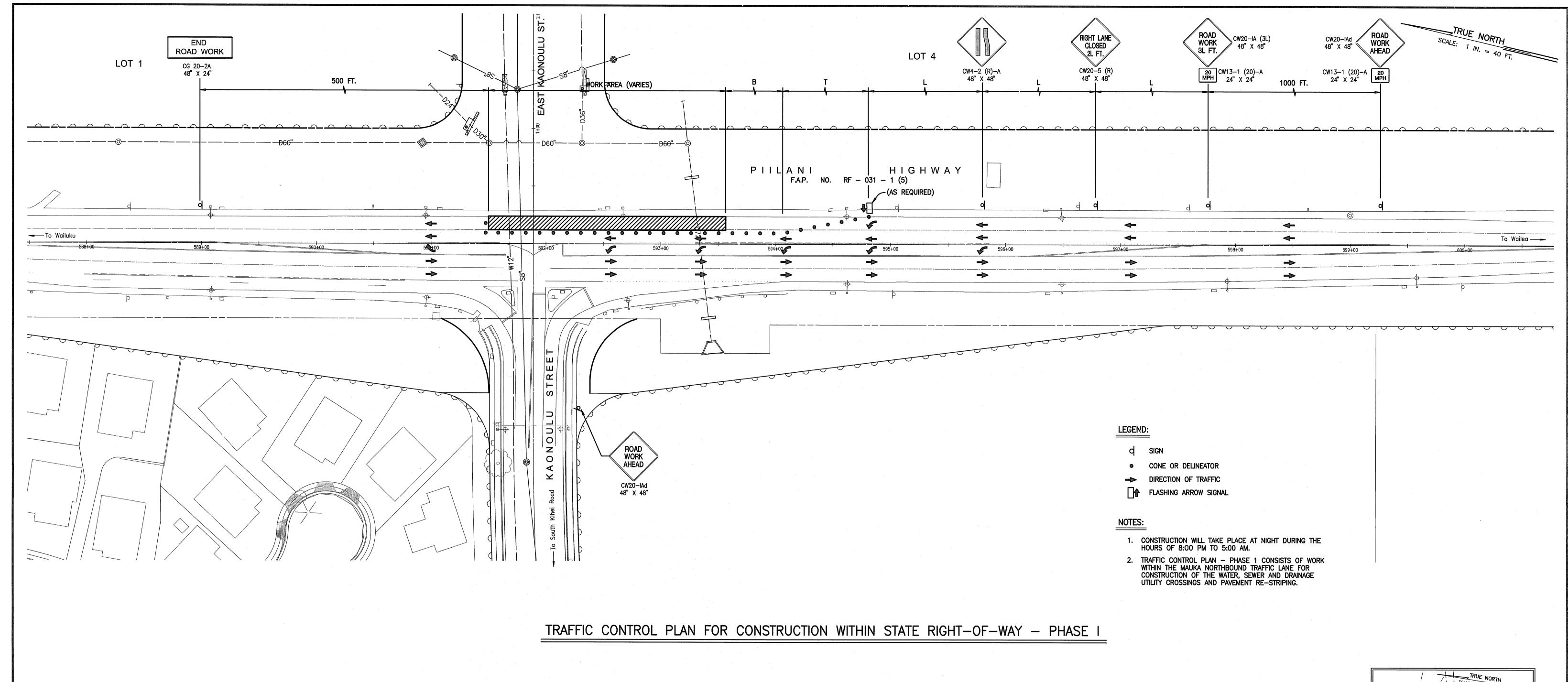




WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS
WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16 KIHEI, MAUI, HAWAII

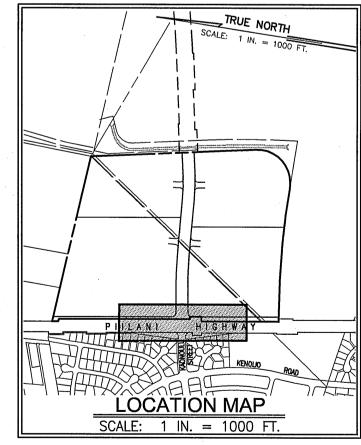
I Alan Al An	sout thos			and of the contract program is a second of the contract of the	in a construction for the construction of the
SIGNATURE	DATE	WSU DESIGNED BY	WSU CHECKED BY	04010.10	14 10
THIS WORK WAS PREPARED BY SUPERVISION AND CONSTRUCTION WILL BE UNDER MY OBSERVATION SECTION 16-115-2 OF THE HA	N OF THIS PROJECT ON "AS DEFINED IN	WIS DRAWN BY	WSU APPROVED BY	JOB NUMBER	SHEET
RULES FOR PROFESSIONAL ENGI LAND SURVEYORS AND LANDSO	NEERS, ARCHITECTS,	SCALE 1 in. = 40	ft.	10-10-05 DATE	OF SHEETS

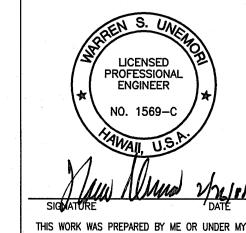


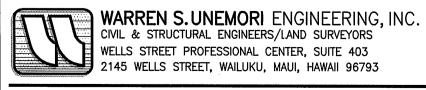
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POSTED SPEED	TAPER LENGTH (T) (FEET)		ENGTH (T) EET)	LONGITUDINAL BUFFER	SPACING OF CONES OR DELINEATORS (FEET) ③		CONES OR (FEET) ③
LIMIT ① (M.P.H)	(FEET)	W = 12' OR LESS ②	W = GREATER THAN 12' ②	SPACE (B) (FEET)	TAPER	TANGENT	WORK AREA
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25	250	200	W x 17	55	25	25	10
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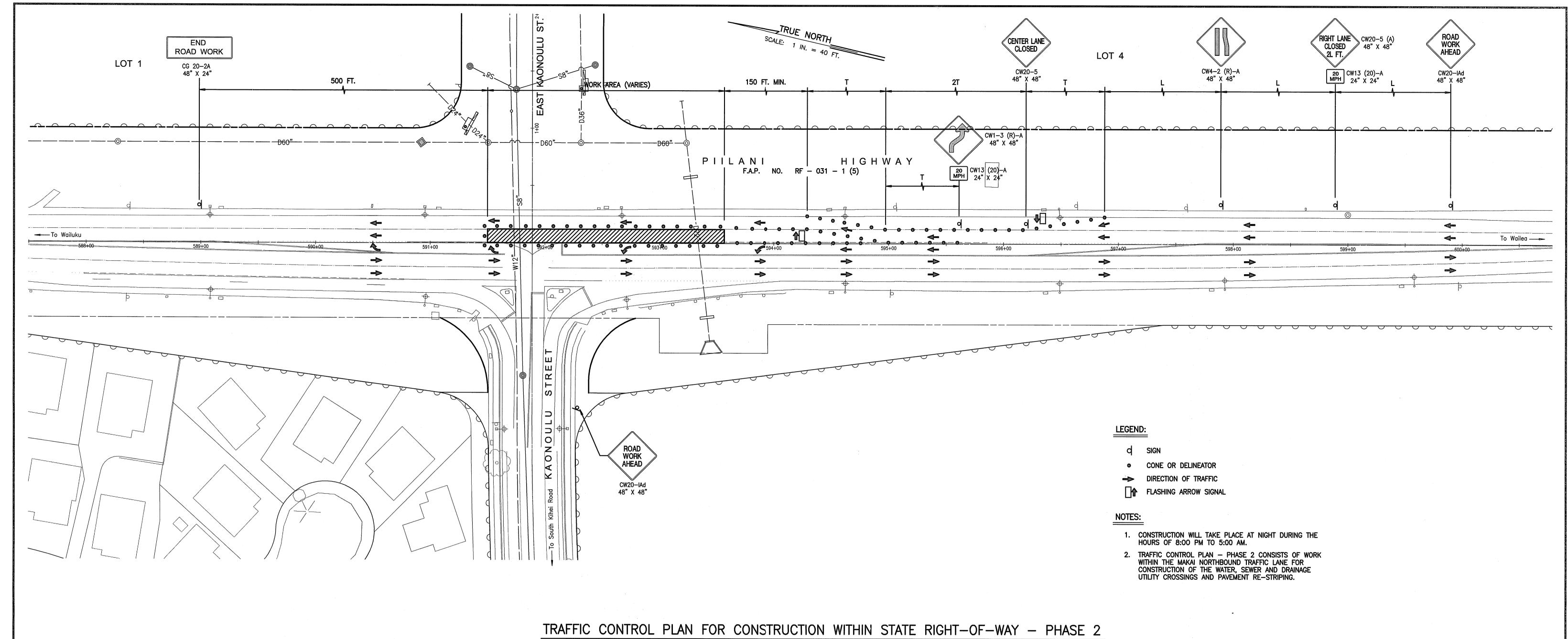
KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16

1		IXII	11,	WIAOI,	1 1/74	VAII.	
	4						
ايد			CONTROL				

ALU DESIGNED BY	WSU CHECKED BY	04010.10	14	.11
WIS	WSU	JOB NUMBER	' '	• • •
DRAWN BY	APPROVED BY		SHEET	
sour 1 in. = 40	£ŧ.	10-10-05		
SCALE I IN. = 40	14.	DATE	OF	SHEETS

LETTER DESCRIPTION

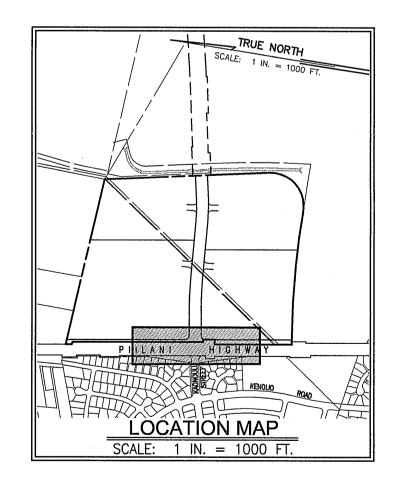
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

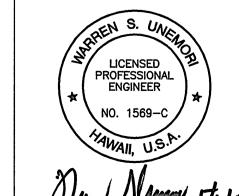


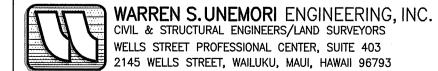
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Т	TABLE 1 FOR TRAFFIC CONTROL PLAN						
POSTED SPEED	SIGN SPACING (L)	TAPER LENGTH (T) (FEET)		LONGITUDINAL BUFFER	SPACING OF CONES OR DELINEATORS (FEET) ③		
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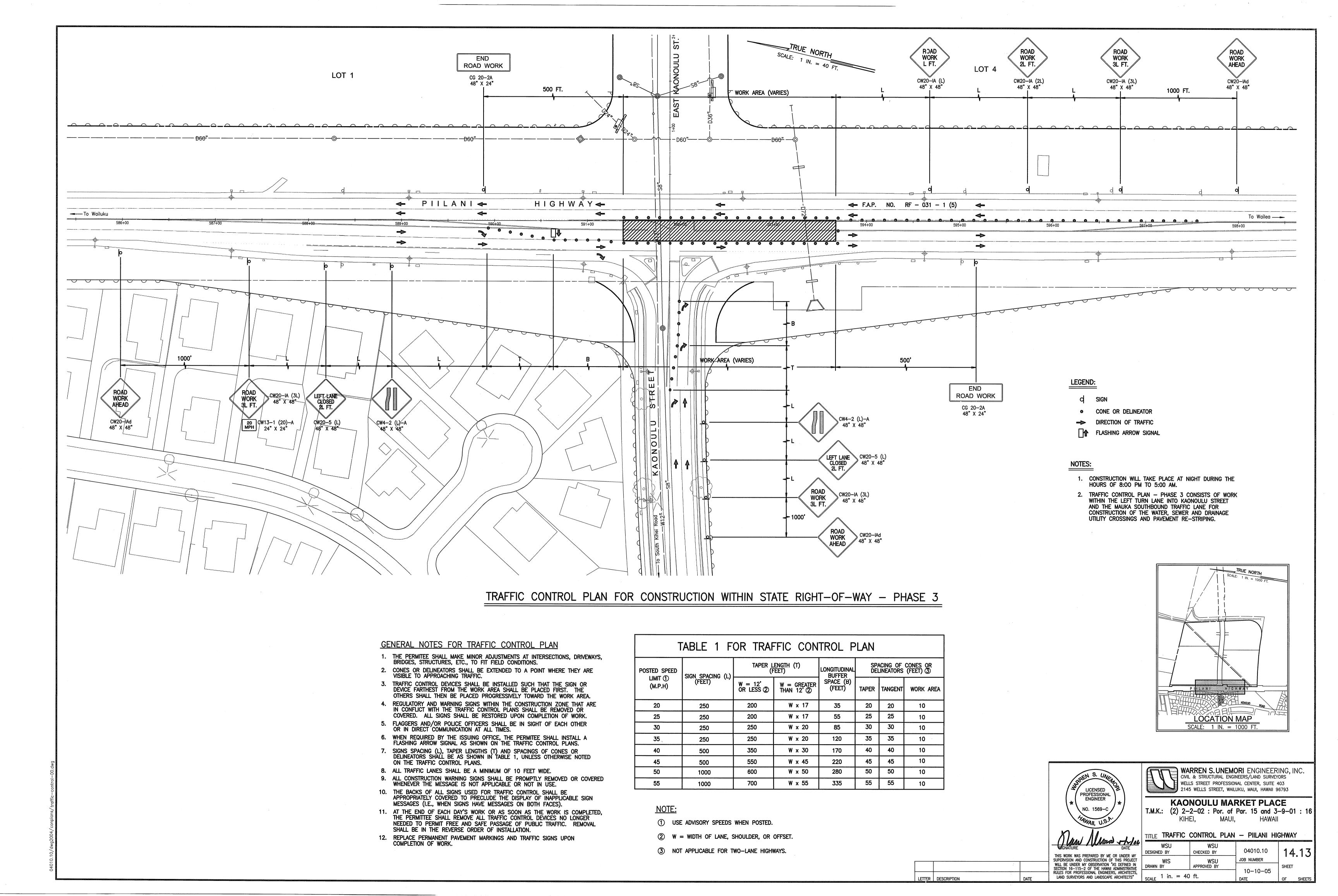
KAONOULU MARKET PLACE

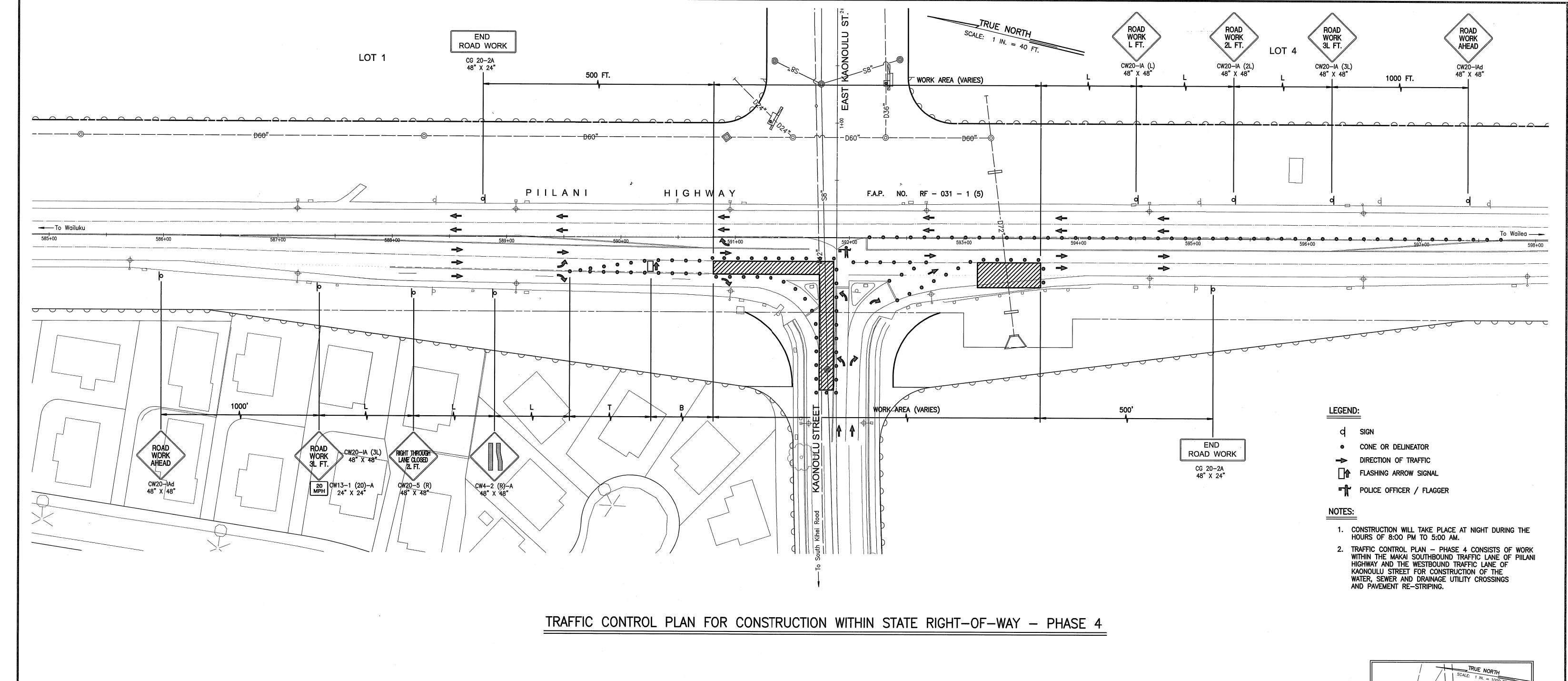
T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16 KIHEI, MAUI, HAWAII

Ł		CONTROL PLAN		
TE ER MY	WSU DESIGNED BY	WSU CHECKED BY	04010.10	14.12
ROJECT NED IN	WIS	WSU	JOB NUMBER	
TRATIVE HTECTS,	DRAWN BY	APPROVED BY	10-10-05	SHEET
ECTS"	$_{SCALE}$ 1 in. = 40) ft.	DATE	OF SHEETS

LETTER DESCRIPTION

THIS WORK WAS PREPARED BY ME OR UNDER SUPERVISION AND CONSTRUCTION OF THIS PR WILL BE UNDER MY OBSERVATION "AS DEFINE SECTION 16-115-2 OF THE HAWAII ADMINISTR RULES FOR PROFESSIONAL ENGINEERS, ARCHIT LAND SURVEYORS AND LANDSCAPE ARCHITEC



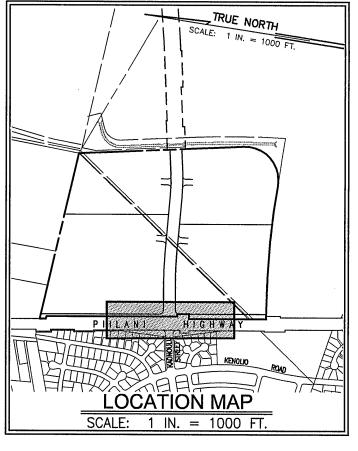


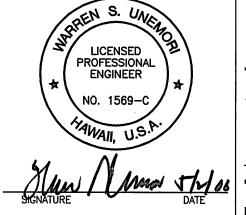
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MESSAGES (I.E., WHEN SIGNS HAVE MESSAGES ON BOTH FACES).

Т	ABLE 1 F	OR TRAF	FIC CON	TROL P	LAN		
POSTED SPEED	SIGN SPACING (I)	TAPER L (F	ENGTH (T) EET)	LONGITUDINAL BUFFER	SP/ DEI	ACING OF LINEATORS	CONES OR (FEET) ③
⊔MIT ① (M.P.H)	SIGN SPACING (L) (FEET)	W = 12' OR LESS ②	W = GREATER THAN 12' ②	SPACE (B) (FEET)	TAPER	TANGENT	WORK AREA
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25	250	200	W x 17	55	25	25	10
30	250	250	W x 20	85	30	30	10
35	250	250	W × 20	120	35	35	10
40	500	350	W x 30	170	40	40	10
45	500	550	W x 45	220	45	45	10
50	1000	600	W x 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10

- 1 USE ADVISORY SPEEDS WHEN POSTED.
- ② W = WIDTH OF LANE, SHOULDER, OR OFFSET.
- 3 NOT APPLICABLE FOR TWO-LANE HIGHWAYS.



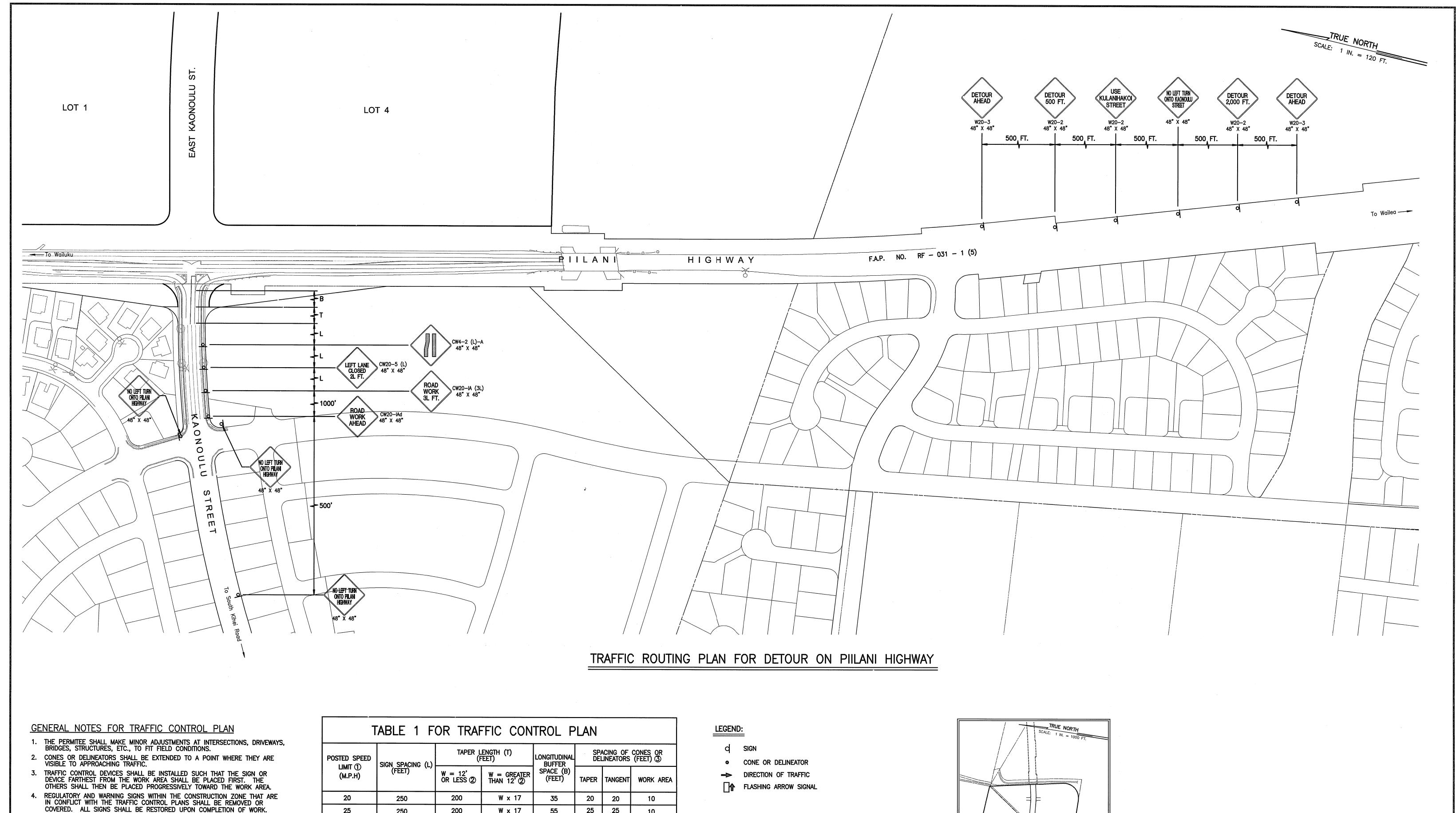


WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16 KIHEI, MAUI, HAWAII

Mary Name to Las	TITLE TRAFFIC	CONTROL PLAN	– PIILANI HI	GHWAY
SIGNATURE DATE THIS WORK WAS DEEDADED BY ME OF LINDER AN	WSU DESIGNED BY	WSU CHECKED BY	04010.10	14 14
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT	WIS	WSU	JOB NUMBER	
WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE	DRAWN BY	APPROVED BY	10-10-05	SHEET
RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"	SCALE 1 in. = 40) ft.	10-10-05 DATE	OF SHEETS

LETTER | DESCRIPTION



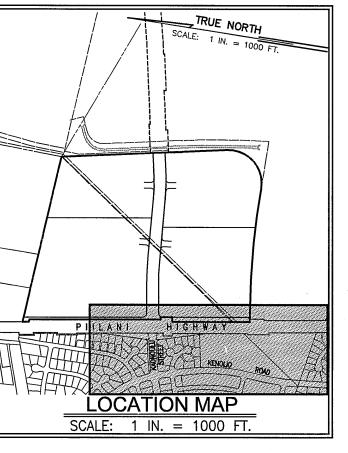
- 5. FLAGGERS AND/OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
- 6. WHEN REQUIRED BY THE ISSUING OFFICE, THE PERMITEE SHALL INSTALL A FLASHING ARROW SIGNAL AS SHOWN ON THE TRAFFIC CONTROL PLANS.
- SIGNS SPACING (L), TAPER LENGTHS (T) AND SPACINGS OF CONES OR DELINEATORS SHALL BE AS SHOWN IN TABLE 1, UNLESS OTHERWISE NOTED ON THE TRAFFIC CONTROL PLANS.
- 8. ALL TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
- 9. ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED CR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.
- 10. THE BACKS OF ALL SIGNS USED FOR TRAFFIC CONTROL SHALL BE APPROPRIATELY COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGES (I.E., WHEN SIGNS HAVE MESSAGES ON BOTH FACES).
- 11. AT THE END OF EACH DAY'S WORK OR AS SOON AS THE WORK IS COMPLETED, THE PERMITTEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN THE REVERSE ORDER OF INSTALLATION.
- 12. REPLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS UPON COMPLETION OF WORK.

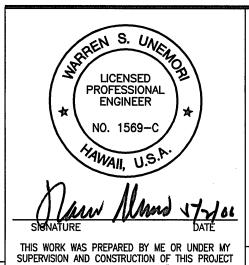
	ABLE 1 F	OR TRAF	-FIC CON	TROL P	LAN		
POSTED SPEED	SIGN SPACING (L)	TAPER L (F	ENGTH (T) EET)	LONGITUDINAL BUFFER	SP/ DEI	ACING OF LINEATORS	CONES OR (FEET) ③
⊔МГ ① (М.Р.Н)	(FEET)	W = 12' OR LESS ②	W = GREATER THAN 12'(2)	SPACE (B) (FEET)	TAPER	TANGENT	WORK AREA
20	250	200	W x 17	35	20	20	10
25	250	200	W x 17	55	25	25	10
30	250	250	W × 20	85	30	30	10
35	250	250	W x 20	120	35	35	10
40	500	350	W × 30	170	40	40	10
45	500	550	W x 45	220	45	45	10
50	1000	600	W x 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10

- 1 USE ADVISORY SPEEDS WHEN POSTED.
- ② W = WIDTH OF LANE, SHOULDER, OR OFFSET.

NOTES:

- 1. CONSTRUCTION WILL TAKE PLACE AT NIGHT DURING THE HOURS OF 8:00 PM TO 5:00 AM.
- 2. TRAFFIC ROUTING PLAN FOR DETOUR ON PILANI HIGHWAY WILL BE IMPLEMENTED DURING PHASE 3 AND 4 OF THE TRAFFIC CONTROL PLAN WHEN THERE WILL BE NO LEFT TURN INTO OR OUT OF KAONOULU STREET AT ITS INTERSECTION WITH PIILANI HIGHWAY.





WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS,

LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16

TITLE TRAFFIC	ROUTING PLAN -	- PIILANI HIGHV	
WSU DESIGNED BY	WSU CHECKED BY	04010.10	14.20
WIS DRAWN BY	WSU APPROVED BY	JOB NUMBER	SHEET
SCALE 1 in. = 1	20 ft.	10-10-05 DATE	OF SHEETS

DATE

3 NOT APPLICABLE FOR TWO-LANE HIGHWAYS.

CONSTRUCTION NOTES:

PUBLIC WORKS:

- 1. THE CONTRACTOR SHALL OBTAIN THE FOLLOWING PERMITS FROM THE DEVELOPMENT SERVICES ADMINISTRATION (D.S.A.) OF THE DEPARTMENT OF PUBLIC WORKS (D.P.W.), COUNTY OF MAUI, BEFORE ANY WORK IS
- A. "WORK TO PERFORM ON COUNTY HIGHWAY PERMIT", TWO (2) WEEKS PRIOR TO
- COMMENCEMENT OF WORK ON B. "DRIVEWAY PERMIT", TWENTY-FOUR HOURS PRIOR TO COMMENCEMENT OF WORK ON ANY
- C. "GRADING PERMIT", FOUR (4) WEEKS PRIOR TO COMMENCEMENT OF ANY CLEARING AND GRUBBING. A SATISFACTORY DUST AND EROSION CONTROL PLAN AND/OR OUTLINE SHALL BE SUBMITTED BY THE CONTRACTOR.
- 2. EACH PHASE OF ROAD CONSTRUCTION IS TO BE APPROVED BY THE D.P.W., D.S.A., PRIOR TO WORKING ON THE NEXT PHASE OF ROAD CONSTRUCTION.
- 3. COMPACTION REQUIREMENTS: TESTING OF MATERIALS SHALL BE CONDUCTED BY AN APPROVED INDEPENDENT TESTING AGENCY IN ACCORDANCE WITH ASTM STANDARD METHODS OR AS SPECIFIED BY THE DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION, AS FOLLOWS:
 - A. EMBANKMENT/SELECT BORROW AND SUBGRADE MATERIALS: ONE (1) COMPACTION TEST PER 600 SQUARE YARDS PER LIFT.
 - B. AGGREGATE SUBBASE COURSE: ONE (1) COMPACTION TEST PER 400 SQUARE YARDS: ONE
 - (1) GRADATION AND SAND EQUIVALENT TEST PER PROJECT.
 - C. AGGREGATE BASE COURSE: ONE (1) COMPACTION TEST PER 300 SQUARE YARDS; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER PROJECT.
 - D. ASPHALT CONCRETE PAVEMENT OR ASPHALT TREATED BASE COURSE: THREE (3) A.C. CORES FOR THICKNESS AND DENSITY TESTS PER PROJECT.
 - E. TRENCH BACKFILL MATERIAL: ONE (1) TEST FOR EACH 300 LINEAL FEET OF TRENCH PER LIFT OF
- CONTRACTOR SHALL SUBMIT ALL TESTING REPORTS INCLUDING RESULTS TO THE COUNTY'S INSPECTION AGENCY FOR REVIEW AND APPROVAL PRIOR TO COUNTY'S ACCEPTANCE OF WORK. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE COUNTY OF ANY TESTING FAILURES AND CORRECT EACH FAILURE PRIOR TO PROCEEDING TO THE NEXT PHASE OF CONSTRUCTION. NONCOMPLIANCE WILL REQUIRE REMOVAL OF ALL SUBSEQUENT WORK TO CORRECT THE AREA OF FAILURE. ALL COSTS OF TESTING, REMOVAL, AND RECONSTRUCTION, SHALL BE BORNE BY THE
- 4. THE LATEST REVISIONS OF THE STANDARD DETAIL DRAWINGS AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND PUBLIC WORKS CONSTRUCTION SHALL BE INCLUDED AS PART OF THE CONSTRUCTION PLANS.
- 5. THE CONTRACTOR SHALL STRIPE STOP LINES. CROSSWALKS AND OTHER LINES, AS REQUIRED, AND SHALL INSTALL SIGNS IN ACCORDANCE WITH THE LATEST REVISIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, DATED MAY 2003."
- 6. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, AND OTHER PROTECTIVE DEVICES FOR THE PROTECTION, SAFETY, AND CONVENIENCE OF THE PUBLIC, ALL IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, DATED MAY 2003."
- 7. CONTRACTOR SHALL SUBMIT TO D.P.W., A STRIPING PLAN FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- 8. THE DIRECTOR OF PUBLIC WORKS OR THE DIRECTOR OF WATER SUPPLY MAY STOP CONSTRUCTION SHOULD ANY WORK BE FOUND CONTRARY TO THE APPROVED CONSTRUCTION PLANS OR BE DETRIMENTAL TO THE PUBLIC
- 9. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE DEVELOPMENT SERVICES ADMINISTRATION
- FIVE (5) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. 10. RECORD DRAWINGS (ONE (1) TIFF COPY AND SEVEN (7) SETS OF PLANS) ARE TO BE SUBMITTED TO THE DEVELOPMENT SERVICES ADMINISTRATION PRIOR TO FINAL APPROVAL OF THE IMPROVEMENTS AS SHOWN ON THE
- APPROVED CONSTRUCTION PLANS. 11. BENCH MARKS SHALL BE ESTABLISHED AND CERTIFIED BY A REGISTERED SURVEYOR, AND SUBMITTED TO THE DEVELOPMENT SERVICES ADMINISTRATION.
- 12. PURSUANT OF MAUI COUNTY CODE SECTION 3.44.015(C), THE COUNTY OF MAUI IS NOT RESPONSIBLE FOR ANY PARK, ROADWAY, EASEMENT (INCLUDING BUT NOT LIMITED TO DRAINAGE, SEWER, ACCESS, RECLAIMED WATER, OR AVIGATION EASEMENT), OR ANY OTHER INTEREST IN REAL PROPERTY SHOWN ON THIS MAP OR SHOWN ON THESE PLANS, UNLESS THE MAUI COUNTY COUNCIL HAS ACCEPTED ITS DEDICATION BY A RESOLUTION APPROVED BY A MAJORITY OF COUNCIL'S MEMBERS AT A REGULAR OR SPECIAL MEETING OF THE MAUI COUNTY COUNCIL.

EXISTING UTILITIES:

- 1. THE LOCATION, DEPTH AND TYPE OF THE VARIOUS EXISTING UTILITY LINES SHOWN ON THE CONSTRUCTION PLANS WERE DETERMINED ON THE BASIS OF THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY FXACT LOCATION, DEPTH AND TYPE PRIOR TO COMMENCEMENT OF WORK.
- 2. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING UTILITIES AS SHOWN ON THE CONSTRUCTION PLANS AND IN GROUND, AND NOT PROCEED WITH ANY FURTHER WORK UNTIL WRITTEN NOTIFICATION IS RECEIVED FROM THE ENGINEER.
- 3. ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON PLANS. IF DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, SHALL BE REPAIRED SOLELY AT HIS EXPENSE.

ENVIRONMENTAL PROTECTION:

- 1. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY
- THE CHIEF ENVIRONMENTALIST SHALL BE BORNE BY THE CONTRACTOR. 2. THE CONTRACTOR SHALL KEEP THE PROJECT AREA AND SURROUNDING AREAS FREE FROM DUST NUISANCE, ALL IN ACCORDANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT
- OF HEALTH. ALL COSTS SHALL BE BORNE BY THE CONTRACTOR. 3. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS OF THE PUBLIC HEALTH REGULATIONS OF THE STATE DEPARTMENT OF HEALTH AND THE COUNTY'S GRADING ORDINANCE.
- 4. ALL CUT AND FILL SLOPES SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER GRADING WORK HAS BEEN COMPLETED OR WITHIN 14 DAYS OF LAST DISTURBANCE.
- 5. CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT APPROPRIATE SITES. THE CONTRACTOR SHALL INFORM THE ENGINEER OF THE LOCATION OF DISPOSAL SITES. THE DISPOSAL SITE SHALL ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- 6. THE CONTRACTOR SHALL NOT DEMOLISH OR CLEAR ANY STRUCTURE, SITE, OR VACANT LOT WITHOUT FIRST ASCERTAINING THE PRESENCE OR ABSENCE OF RODENTS WHICH MAY ENDANGER THE PUBLIC HEALTH BY DISPERSAL FROM SUCH PREMISES. SHOULD SUCH INSPECTION REVEAL THE PRESENCE OF SUCH RODENTS, THE CONTRACTOR SHALL ERADICATE SUCH RODENTS BEFORE DEMOLISHING OR CLEARING SAID STRUCTURE, SITE OR

CLEARING AND GRUBBING:

1. NO CLEARING AND GRUBBING MATERIALS SHALL BE DEPOSITED IN COUNTY SANITARY LANDFILLS. CONTRACTOR SHALL MAKE THEIR OWN ARRANGEMENTS FOR SATISFACTORY DEPOSIT OF SAME.

EXISTING GRADES:

1. EXISTING GRADES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH GRADING WORK. SHOULD ANY DISCREPANCIES BE DISCOVERED IN THE EXISTING GRADES OR DIMENSIONS GIVEN ON THE PLANS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER BEFORE PROCEEDING FURTHER WITH ANY WORK. OTHERWISE HE WILL BE HELD RESPONSIBLE FOR ANY COST INVOLVED IN CORRECTION OF CONSTRUCTION PLACED DUE TO SUCH DISCREPANCIES.

PLAN NOTES FOR WATER SYSTEM:

- 1. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF WATER SUPPLY (DWS), IN WRITING ONE (1) WEEK PRIOR TO COMMENCEMENT OF WORK.
- 2. ALL MATERIALS USED AND METHODS OF CONSTRUCTION OF WATER SYSTEM FACILITIES SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF DWS STANDARDS. CONTRACTOR SHALL OBTAIN THE LATEST REVISIONS OF THE DWS STANDARD DETAILS BEFORE COMMENCING CONSTRUCTION.
- 3. ALL WATER SYSTEM WORK SHALL BE PERFORMED BY CONTRACTORS POSSESSING VALID
- STATE OF HAWAII CONTRACTOR'S LICENSES, REGARDLESS OF THE VALUE OF THE WORK. 4. THE EXACT DEPTH AND LOCATION OF EXISTING WATERLINES, SERVICE LATERALS AND OTHER UTILITIES ARE NOT KNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE SAME PRIOR TO TRENCHING FOR THE NEW WATERLINE. THE COST OF LOWERING, RELOCATING OR ADJUSTING EXISTING WATERLINES. SERVICE LATERALS AND OTHER UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE NEW WATERLINE. UNLESS NOTED OTHERWISE, AND WILL NOT BE PAID FOR SEPARATELY.
- 5. CONCRETE FOR REACTION BLOCKS AND ANCHOR BLOCKS SHALL BE DWS CLASS 2500.
- THE MAXIMUM DISTANCE BETWEEN VALVE AND NUT AND TOP OF VALVE MANHOLE COVER SHALL BE THREE (3) FEET.
- 7. THE CONTRACTOR SHALL SUBMIT A MATERIALS LIST TO DWS FOR APPROVAL PRIOR TO CONSTRUCTION.
- 8. CONNECTION TO DWS SYSTEM: A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL NECESSARY FITTINGS AND OTHER MATERIALS AND EQUIPMENT REQUIRED FOR THE HOOK-UP. HE SHALL VERIFY THE EXACT LOCATION, DEPTH, TYPE, AND CONDITION OF THE EXISTING LINE BEFORE ORDERING MATERIALS FOR THE HOOK-UP. HE SHALL, HOWEVER, CHECK WITH DWS BEFORE EXCAVATING FOR VERIFICATION PURPOSES.
- B. WHENEVER FEASIBLE, MECHANICAL JOINT FITTINGS SHALL BE USED FOR BURIED APPLICATIONS, AND FLANGED JOINT FITTINGS SHALL BE USED FOR EXPOSED
- C. AUTHORIZED DWS PERSONNEL MAY BE REQUIRED TO MAKE THE FINAL CONNECTION TO THE EXISTING LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY DWS FOR SAID WORK, INCLUDING THE COST OF PRESSURE TESTING AND
- D. IF THE DWS PROVIDES ONLY INSPECTION AND SUPERVISING OPERATORS, AND DOES NOT PROVIDE PERSONNEL FOR THE ACTUAL CONNECTION, THE CONTRACTOR SHALL PROVIDE ALL PIPEFITTERS AND LABORS TO MAKE THE CONNECTION.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL, EQUIPMENT AND LABOR FOR TRENCH EXCAVATION, BACKFILLING, CLEANING AND CHLORINATION, PAVING, AND OTHER WORK NECESSARY TO COMPLETE THE HOOK-UP, AS DIRECTED BY AND TO THE SATISFACTION OF DWS.
- 9. MINIMUM COVER OVER WATER MAIN, 6" DIAMETER OR LARGER, SHALL BE 3'-0". MINIMUM COVER FOR 4" DIAMETER SHALL BE 2'-6". MINIMUM COVER FOR DIAMETERS LESS THAN 4" SHALL BE 1'-6".
- 10. BOLTS FOR EXPOSED FLANGED DUCTILE IRON PIPE JOINTS SHALL BE EITHER SILICON BRONZE BOLTS AND NUTS OR 316 STAINLESS STEEL BOLTING WITH THE HEAVY DUTY STAINLESS STEEL NUTS (ONLY) FURNISHED WITH TRIPAC 2000 BLUE COATING SYSTEM ANTI-SEIZE SHALL NOT BE USED. T-BOLTS FOR DUCTILE IRON MECHANICAL JOINT (MJ) PIPE AND FITTING CONNECTIONS IN UNDERGROUND SITUATIONS SHALL BE ONE OF THE FOLLOWING SYSTEMS:
- A. 316 STAINLESS STEEL T-BOLTS WITH THE HEAVY DUTY STAINLESS STEEL NUTS (ONLY) FURNISHED WITH TRIPAC 2000 BLUE COATING SYSTEM. ANTI-SEIZE SHALL NOT BE
- B. COR-TEN T-BOLTS AND NUTS WITH HIGH GRADE ZINC SACRIFICIAL ANODES, EQUIVALENT TO "DURATRON" SACRIFICIAL "SAC-NUT" MODULES, INSTALLED ON THE NUTS FOR ALL STANDARD COR-TEN T-BOLTS.
- C. COR-TEN T-BOLTS AND NUTS BOTH FACTORY COATED WITH TRIPAC 2000 BLUE COATING SYSTEM BY "TRIPAC FASTENERS".
- 11. ALL BURIED METALS SHALL BE WRAPPED WITH POLY-WRAP. FOR ALL BURIED INSTALLATIONS OF DUCTILE IRON PIPE AND FITTINGS, POLY-WRAP IS REQUIRED EXCEPT WITHIN CONCRETE JACKETS.
- 12. LUBRICATE HYDRANT NOZZLE THREADS WITH NON-TOXIC GREASE.
- 13. THE CONTRACTOR SHALL PAINT AND NUMBER THE FIRE HYDRANT. NUMBERING TO BE FURNISHED BY DWS.
- 14. WATER MAINS AND APPURTENANCES SHALL BE SUBJECT TO HYDROSTATIC TESTING IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C600, UNDER THE "HYDROSTATIC TESTING" SECTION, TO A PRESSURE OF AT LEAST 1.5 TIMES THE WORKING PRESSURE UNLESS OTHERWISE STATED IN THE CONSTRUCTION DOCUMENTS OR LIMITED BY THE PRESSURE RATING OF EQUIPMENT, THE PRESSURE TEST AND LEAKAGE TEST SHALL BE PERFORMED AT 225 POUNDS PER SQUARE INCH PRESSURE.
- 15. THE DEVELOPER SHALL SUBMIT A COST LIST ALONG WITH AN AFFIDAVIT FOR THE WATER SYSTEM PRIOR TO ACCEPTANCE.
- 16. THE CONTRACTOR SHALL SUBMIT TWO SETS OF RECORD DRAWINGS VIA A CONSULTANT PRIOR TO ACCEPTANCE OF THE WATER SYSTEM. AN ELECTRONIC IMAGE FILE IN TIF FORMAT SHALL BE PROVIDED TO THE DWS FOR ALL PROJECTS.

PLAN NOTES FOR CHLORINATION OF WATER SYSTEM PIPELINES:

- 1. WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. ALL PROCEDURES AND MATERIALS (LIQUID CHLORINE OR CALCIUM HYPOCHLORITE) USED FOR THE CHLORINATION OF THE PROJECT SHALL CONFORM TO AWWA REQUIREMENTS.
- 2. PRIOR TO CHLORINATION, THE PROJECT PIPELINES SHALL BE THOROUGHLY CLEANED. CLEANING OF LINES 8" AND LARGER SHALL BE BY PIGGING USING FOAM PIGS. SMALLER LINES CAN BE FLUSHED IN ACCORDANCE WITH AWWA REQUIREMENTS IF ADEQUATE WATER SUPPLY IS PROVIDED, OTHERWISE BY PIGGING. THE CONTRACTOR SHALL SUBMIT HIS PLAN FOR PIPELINE CLEANING, INCLUDING FITTING REQUIREMENTS FOR PIGGING, FOR APPROVAL PRIOR TO PROCEEDING.
- 3. THE INTERIOR SURFACES OF THE PROJECT SHALL BE EXPOSED TO THE CHLORINATING SOLUTION FOR A MINIMUM OF 24 HOURS AND THE CHLORINE RESIDUAL SHALL NOT BE LESS THAN 10 PPM AFTER SUCH TIME.
- 4. SHOULD CALCIUM HYPOCHLORITE BE USED, NO SOLID AND/OR UNDISSOLVED PORTION OF THE COMPOUND SHALL BE INTRODUCED INTO ANY SECTION OF THE PROJECT TO BE CHLORINATED.
- 5. AT THE END OF THE 24—HOUR DISINFECTION PERIOD. REPRESENTATIVE SAMPLES SHALL BE TAKEN AND ANALYZED TO ASSURE A CHLORINE RESIDUAL OF AT LEAST 10 PPM. MEASUREMENTS FOR CHLORINE RESIDUAL TESTS SHALL BE BY A TRAINED, QUALIFIED TESTER APPROVED BY THE DIRECTOR.
- 6. SHOULD THE RESULTS INDICATE ADEQUATE CHLORINATION, THE PROJECT SHALL BE THOROUGHLY FLUSHED AND FILLED WITH POTABLE WATER FROM THE EXISTING POTABLE WATER SYSTEM AND AGAIN TESTED FOR CHLORINE RESIDUAL. THE FLUSHING SHALL BE CONSIDERED ADEQUATE IF THE TEST RESULTS INDICATE THAT THE WATER IN THE PROJECT HAS A COMPARABLE CHLORINE RESIDUAL AS THE WATER IN THE EXISTING SYSTEM.
- 7. FOLLOWING THE ACCEPTABLE FLUSHING OF THE HIGH CONCENTRATION CHLORINE SOLUTION, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES SHALL BE TAKEN AT LEAST 24 HOURS APART FROM REPRESENTATIVE POINTS IN THE PROJECT AND SUBJECTED TO MICROBIOLOGICAL TESTS PERFORMED BY A CERTIFIED LABORATORY APPROVED BY THE DEPARTMENT OF HEALTH. AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED AND TESTED FROM EVERY 1,200 FEET OF THE NEW WATER MAIN, PLUS ONE SET FROM THE END OF THE LINE AND AT LEAST ONE SET FROM EACH BRANCH. POSITIVE RESULTS WILL NOT BE ACCEPTABLE AND THE ENTIRE CHLORINATION PROCESS WILL BE REPEATED.
- 8. ANALYSIS FOR RESIDUAL CHLORINE SHALL BE MADE IN ACCORDANCE WITH "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", AMERICAN PUBLIC HEALTH ASSOCIATION, CURRENT EDITION.
- 9. MICROBIOLOGICAL TESTS SHALL BE MADE IN ACCORDANCE WITH "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER". AMERICAN PUBLIC HEALTH ASSOCIATION.
- 10. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ALL OF THE FOREGOING.

WASTEWATER NOTES:

- ALL WASTEWATER LINES AND APPURTENANCES SHALL CONFORM TO STANDARD DETAILS FOR PUBLIC WORKS
- CONSTRUCTION, DATED SEPTEMBER 1984, OF THE DEPARTMENT OF PUBLIC WORKS. COUNTY OF MAUI. ALL SEWERLINE AND APPURTENANCES SHALL FOLLOW THE DESIGN STANDARDS OF THE WASTEWATER RECLAMATION DIVISION, CITY AND COUNTY OF HONOLULU, VOLUMES 1 AND 2, DATED JULY 1993 AND JULY 1984 RESPECTIVELY. UNLESS OTHERWISE NOTED.
- BEFORE CONSTRUCTION COMMENCES, THE CONTRACTOR SHALL SCHEDULE AND DOCUMENT A PRE-CONSTRUCTION MEETING WITH ALL AGENCIES HAVING UTILITIES AFFECTED BY THE WORK.
- 4. THE DEPARTMENT OF PUBLIC WORKS, WASTEWATER RECLAMATION DIVISION, HAS THE RIGHT TO STOP CONSTRUCTION, SHOULD ANY WORK BE FOUND CONTRARY TO THE APPROVED PLANS AND SPECIFICATIONS.
- OR DETRIMENTAL TO THE PUBLIC INTEREST. 5. ALL EXISTING WASTEWATER LINES, WHETHER OR NOT SHOWN ON THE PLANS, IF DAMAGED DURING
- CONSTRUCTION, SHALL BE REPAIRED BY THE CONTRACTOR AND THE CONTRACTOR SHALL PAY ALL EXPENSES. THE CONTRACTOR SHALL NOTIFY THE WASTEWATER RECLAMATION DIVISION ONE (1) WEEK PRIOR TO
- CONNECTION TO ANY EXISTING WASTEWATER LINES.
- SHOULD THE CONTRACTOR EXCAVATE BEYOND THE TRENCH PAY-WIDTH, AS SPECIFIED IN THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, DATED SEPTEMBER 1984, AND SUCH ACTION RESULTS IN A GREATER LOAD TO THE PIPE, THE CONTRACTOR SHALL PROVIDE, AT THE CONTRACTOR'S EXPENSE, A HIGHER CLASS OF BEDDING MATERIAL THAT WILL WITHSTAND THE ADDED LOAD.
- WASTEWATER LATERALS SHALL BE SIX (6) INCHES IN DIAMETER AT A MINIMUM OF 1% SLOPE, UNLESS
- AN ADVANCE RISER CONNECTION SHALL BE INSTALLED AT EACH NEW WASTEWATER LATERAL WHERE THE CLEARANCE BETWEEN A WASTEWATER LINE AND A NEW OR EXISTING UTILITY LINE IS EIGHTEEN (18)
- INCHES OR LESS, THE WASTEWATER LINE SHALL BE CONCRETE JACKETED IN ACCORDANCE WITH THE STANDARD DETAILS OF PUBLIC WORKS CONSTRUCTION, DATED SEPTEMBER 1984.
- WHEN THE WASTEWATER MAINS ARE OF A DIFFERENT MATERIAL THAN THE LATERALS, THE CONTRACTOR SHALL INSTALL APPROVED ADAPTERS.
- 12. ALL BACKFILL FOR WASTEWATER TRENCHES SHALL BE COMPACTED IN ONE (1) FOOT LIFTS TO A MINIMUM OF 95% OF ITS MAXIMUM DENSITY. WHERE CONSTRUCTION IS TO BE DONE IN PHASES OR INCREMENTS, EACH PHASE OR INCREMENT SHALL
- BE APPROVED BY WASTEWATER RECLAMATION DIVISION BEFORE THE NEXT PHASE OR INCREMENT IS STARTED. 14. ALL WASTEWATER MAINS SHALL PASS A MANDREL TEST AS A CONDITION OF ACCEPTANCE 30 DAYS AFTER
- COMPLETION AND BACKFILL. THE MANDRAL DIAMETER SHALL BE 95% OR MORE OF THE INSIDE DIAMETER OF THE PIPE BEING TESTED. A CERTIFICATION LETTER FROM THE CONTRACTOR, SIGNED BY THE LUCA INSPECTOR, WILL BE FORWARDED TO THE WASTEWATER RECLAMATION DIVISION.
- PRIOR TO FINAL ACCEPTANCE, ALL WASTEWATER LINES INSTALLED SHALL BE FLUSHED WITH WATER AND ANY ACCUMULATED CONSTRUCTION DEBRIS AND OTHER FOREIGN MATERIALS SHALL BE REMOVED.
- "AS-BUILT" DRAWINGS SHALL BE SUBMITTED AS A CONDITION FOR THE FINAL ACCEPTANCE OF THE PROJECT. IF MAIN TRANSMISSION LINES WILL BE DEDICATED TO THE COUNTY, THE CONTRACTOR SHALL SUBMIT AN AUTOCAD RELEASE 14 DRAWING FILE TO THE WASTEWATER RECLAMATION DIVISION.
- ALL MAIN WASTEWATER LINES WHICH WILL BE DEDICATED TO THE COUNTY OF MAUI SHALL BE INSPECTED BY CLOSED CIRCUIT TELEVISION (CCTV) IN STRICT ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS CCTV POLICY, EFFECTIVE DATE NOVEMBER 1, 1996. FINAL ACCEPTANCE OF THE SYSTEM SHALL BE CONTINGENT UPON THE
- PASSING OF ALL REQUIREMENTS OF THIS POLICY. ANY CONNECTION MADE UNDER THE WATER TABLE WILL REQUIRE CCTV AT HIGH TIDE TO DETERMINE WATER TIGHTNESS. IN ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS CCTV POLICY, EFFECTIVE DATE NOVEMBER 15, 1996.
- FINAL ACCEPTANCE OF THE SYSTEM SHALL BE CONTINGENT UPON THE PASSING OF ALL REQUIREMENTS OF THIS POLICY. CONTRACTOR MUST HAVE A SITE SPECIFIC SPILL PREVENTION PLAN (SSSPP) APPROVED BY WWRD PRIOR TO SEWERLINE
- CONSTRUCTION AND CONNECTION TO EXISTING FACILITIES.

EROSION CONTROL:

- THE FOLLOWING MEASURES SHALL BE TAKEN TO CONTROL EROSION DURING THE SITE DEVELOPMENT PERIOD:
- MINIMIZE TIME OF CONSTRUCTION.

MORE THAN 15':

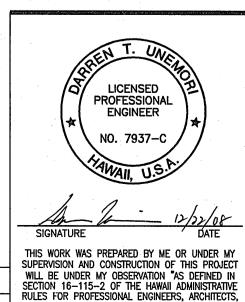
- RETAIN EXISTING GROUND COVER UNTIL LATEST DATE TO COMPLETE CONSTRUCTION.
- EARLY CONSTRUCTION OF DRAINAGE CONTROL FEATURES.
- 4. USE TEMPORARY AREA SPRINKLERS IN NON-ACTIVE CONSTRUCTION AREAS WHEN GROUND COVER
- STATION WATER TRUCK ON SITE DURING CONSTRUCTION PERIOD TO PROVIDE FOR IMMEDIATE SPRINKLING, AS NEEDED, IN ACTIVE CONSTRUCTION ZONES (WEEKENDS AND HOLIDAYS
- 6. USE TEMPORARY BERMS AND CUT-OFF DITCHES, WHERE NEEDED, FOR CONTROL OF EROSION
- GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY AND ON WEEKENDS.
- 8. ALL CUT AND FILL SLOPES SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER GRADING WORK HAS BEEN COMPLETED.

EARTHWORK:

DISTANCE FROM TOP OF CUT OR BOTTOM OF FILL TO PROPERTY LINE:

HEIGHT OF CUT OR FILL DISTANCE FROM PROPERTY LINE 0' TO 2': MORE THAN 2' TO 4': MORE THAN 4' TO 6': MORE THAN 6' TO 10': MORE THAN 10' TO 15':

SHOULD HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS AND MOUNDS. OR REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATION OF CHARCOAL OR SHELLS ARE ENCOUNTERED DURING CONSTRUCTION WORK, WORK SHALL CEASE IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE STATE HISTORIC PRESERVATION DIVISION (243-5169), WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND AN APPROPRIATE MITIGATION MEASURE, IF NECESSARY.





AS NOTED

WARREN S.UNEMORI ENGINEERING. INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16 MAUI.

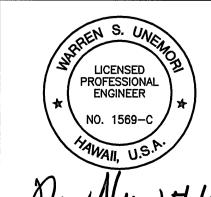
	JCTION NOTES		
ALU DESIGNED BY	DTU CHECKED BY	04010.10	15.01
WIS	DTU	JOB NUMBER	10.01
DRAWN BY	APPROVED BY	40 40 05	SHEET

LETTER DESCRIPTION

LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY:

- 1. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION PERMIT FROM THE STATE'S HIGHWAY DISTRICT ENGINEER AT MAUI DISTRICT OFFICE PRIOR TO COMMENCEMENT OF WORK WITHIN STATE HIGHWAY RIGHT-OF-WAY.
- 2. CONSTRUCTION AND RESTORATION OF ALL EXISTING HIGHWAY FACILITIES WITHIN STATE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE SPECIFICATION FOR INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS, OF THE STATE HIGHWAYS DIVISION.
- 3. ALL LANES SHALL BE OPENED TO TRAFFIC AT ALL TIMES. LANE CLOSURE OF HONOAPIILANI HIGHWAY WILL NOT BE PERMITTED.
- 4. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION AND FOR THE CONVENIENCE AND SAFETY OF PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH THE "ADMINISTRATIVE RULES OF HAWAII GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS" ADOPTED BY THE DIRECTOR OF TRANSPORTATION, AND THE CURRENT U. S. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI -TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS". IF LANE CLOSURES ARE REQUIRED DURING CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE INCORPORATED INTO THE CONSTRUCTION PLANS AND MUST BE APPROVED BY THE DIVISION PRIOR TO THE ISSUANCE OF THE PERMIT.
- 5. THE MINIMUM PAVEMENT STRUCTURE SHALL CONSIST OF:
 - A. RESIDENTIAL DRIVEWAYS
 - (1) 2" ASPHALT CONCRETE AND 6" AGGREGATE BASE COURSE, OR 2" ASPHALT CONCRETE AND 2-1/2" ASPHALT CONCRETE BASE COURSE OR ASPHALT CONCRETE.
 - (2) 4" OF CLASS "A" CONCRETE REINFORCED WITH 6"X 6" - 6/6 WIRE MESH ON 12" AGGREGATE SUBBASE IF DEEMED NECESSARY BY ENGINEER.
 - B. COMMERCIAL DRIVEWAYS, SIDE ROADS AND UTILITY INSTALLATIONS ON MINOR HIGHWAYS
 - (1) 2-1/2" ASPHALT CONCRETE, 8" AGGREGATE BASE COURSE AND 12" AGGREGATE SUBBASE, OR 2-1/2" ASPHALT CONCRETE AND 8" ASPHALT CONCRETE BASE COURSE OR ASPHALT CONCRETE.
 - (2) 6" OF CLASS "A" CONCRETE REINFORCED WITH 6"X 6" - 6/6 WIRE MESH ON 12" AGGREGATE SUBBASE IF DEEMED NECESSARY BY ENGINEER.
 - C. CHANNELIZED INTERSECTIONS AND UTILITY INSTALLATIONS ON MAJOR HIGHWAYS
 - 4" ASPHALT CONCRETE, 8" AGGREGATE BASE COURSE AND 12" AGGREGATE SUBBASE, OR 4" ASPHALT CONCRETE AND 8" ASPHALT CONCRETE BASE COURSE OR ASPHALT CONCRETE, OR MATCH EXISTING PAVEMENT STRUCTURE, WHICHEVER IS GREATER.
- 6. NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN HIGHWAY RIGHTS-OF-WAY EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE DISTRICT ENGINEER.
- 7. COMPACTION TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE SPECIFICATIONS FOR INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS, AS FOLLOWS:
 - A. SUBBASE: ONE (1) COMPACTION TEST(S) B. BASE COURSE: ONE (1) COMPACTION TEST(S) C. ONE (1) COMPACTION TEST(S) FOR EACH 200 LINEAL FEET OF TRENCH OR FRACTION THÉREOF.
- SUBMIT COMPACTION TEST RESULTS TO DISTRICT ENGINEER FOR
- 8. PRIOR TO COMMENCING TRENCH EXCAVATION WORK, THE CONTRACTOR SHALL TAKE A PROFILE ALONG THE NEW CENTERLINE OF UTILITY TRENCH AND THAT SUCH INFORMATION SHALL BE USED IN THE VERIFICATION OF RESTORING THE ROADWAY TO ITS ORIGINAL CONDITION. A COPY OF THE PROFILE SHALL BE SUBMITTED TO THE DISTRICT ENGINEER.
- 9. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE, SAFE, NON-SKID BRIDGING MATERIAL OVER THE TRENCH, INCLUDING SHORING, WHEN TRENCHING IN PAVEMENT AREAS TO HANDLE ALL TYPES OF VEHICULAR TRAFFIC.
- 10. NO TRENCH SHALL BE OPENED MORE THAN 150 FEET IN ADVANCE OF THE INSTALLED AND TESTED PIPE AND/OR DUCTLINE.
- 11. LONGITUDINAL DRAINAGE ALONG THE HIGHWAY SHALL BE MAINTAINED.
- 12. PAVEMENT STRIPING SHALL BE DONE BY CONTRACTOR.
- 13. APPROVAL OF PERMIT CONSTRUCTION PLANS SHALL BE VALID FOR A PERIOD OF ONE YEAR THEREOF FROM THE DATE OF NOTIFICATION OF APPROVAL TO THE APPLICANT. IN THE EVENT CONSTRUCTION DOES NOT COMMENCE WITHIN THIS ONE-YEAR PERIOD, THE APPLICANT WILL BE REQUIRED TO RESUBMIT HIS CONSTRUCTION PLANS FOR DIVISION'S REVIEW AND APPROVAL.
- 14. ALL REGULATORY, GUIDE AND CONSTRUCTION SIGNS AND BARRICADES SHALL BE OF HIGH INTENSITY REFLECTIVE SHEETING.
- 15. OPERATION OF STEEL TRACK EQUIPMENT WILL NOT BE ALLOWED ON STATE HIGHWAY UNLESS AUTHORIZED BY DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION.



WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16

KIHEI, MAUI, HAWAII TITLE CONSTRUCTION NOTES

DESIGNED BY THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, DRAWN BY LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

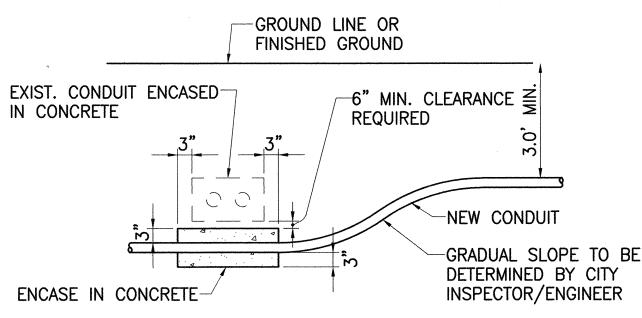
04010.10 CHECKED BY JOB NUMBER WIS APPROVED BY 10-10-05 AS NOTED

TRAFFIC SIGNAL NOTES

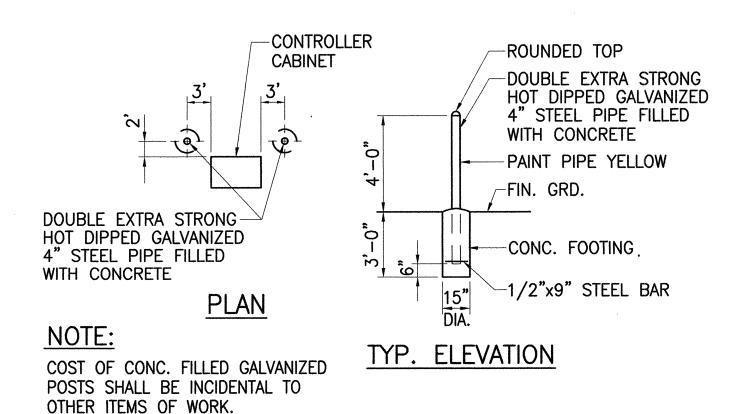
- 1. ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL BE COMPLETELY WIRED IN THE CABINET AND SHALL CONTROL THE TRAFFIC SIGNALS AS CALLED FOR IN THE PLANS.
- 2. SIGNAL INDICATIONS DURING CLEARANCE INTERVAL:
- A. IF A SIGNAL IS G OR <G AND WILL REMAIN G OR <G DURING THE NEXT PHASE, IT SHALL BE G OR <G DURING THE CLEARANCE INTERVAL.
- B. IF A SIGNAL IS G OR <G- AND WILL BECOME R OR EXTINGUISHED DURING THE NEXT PHASE, IT SHALL BE Y OR <Y- DURING THE CLEARANCE INTERVAL.
- C. IF A SIGNAL IS R AND WILL REMAIN R OR BECOMES G DURING THE NEXT PHASE, IT SHALL REMAIN R DURING THE CLEARANCE INTERVAL.
- 3. THE LOOP AMPLIFIER UNITS FURNISHED FOR THIS PROJECT SHALL BE CAPABLE OF OPERATING THE LOOP DETECTOR CONFIGURATIONS SHOWN ON THE PLANS. COST FOR THE LOOP AMPLIFIER SHALL BE INCIDENTAL TO THE INSTALLATION OF THE LOOP DETECTOR.
- 4. A SOLID #8 BARE COPPER WIRE SHALL BE PULLED WITH THE TRAFFIC CONTROL CABLE FOR EQUIPMENT GROUND. COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE CONTROL CABLE.
- 5. CONDUITS AND PULLBOX LOCATIONS AS SHOWN ON THE PLANS ARE SCHEMATIC. THEY MAY BE MODIFIED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.
- 6. THE CONTRACTOR SHALL INSTALL THE CONTROLLER AND CABINET IN THE INDICATED LOCATION.
- 7. ALL WORK FOR THE INSTALLATION OR MODIFICATION OF THE TRAFFIC SIGNAL SYSTEM SHALL CONFORM TO THE LATEST REVISIONS OF THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1994" AND THE "STANDARD PLANS" OF THE DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION AND AS SHOWN ON THESE DRAWINGS.
- 8. ALL SPLICING SHALL BE DONE IN THE PULLBOXES.
- 9. FURNISHING AND INSTALLING THE CONDUIT STUBOUTS (PULLBOXES TO EDGE OF PAVEMENT) WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.
- 10. THE CONCRETE JACKET FOR THE CONDUIT BY-PASS DETAIL SHOWN ON THIS SHEET SHALL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS. THE ENGINEER SHALL DETERMINE IF A CONCRETE JACKET IS REQUIRED.
- 11. ALL CABLE AND ELEMENTS FOR GROUNDING SHALL BE NEW.
- 12. CABLES BETWEEN SIGNAL FACES, PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, AND EVP DETECTORS AND THE NEAREST PULLBOX ARE NOT CALLED OUT ON THE PLAN, BUT SHALL BE FURNISHED AND INSTALLED IN SUFFICIENT NUMBERS AND LENGTHS AS REQUIRED. COST SHALL BE INCIDENTAL TO VARIOUS TRAFFIC SIGNAL CONTRACT ITEMS.
- 13. CONDUITS BETWEEN THE TRAFFIC SIGNAL STANDARD AND THE PULLBOX SHALL BE IN SUFFICIENT NUMBER AS REQUIRED. COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE TRAFFIC SIGNAL STANDARD FOUNDATION.
- 14. UNLESS OTHERWISE SPECIFIED, ALL CONDUITS SHALL BE PVC SCHEDULE 80.
- 15. THE CONTRACTOR SHALL NOTIFY THE MAUI DISTRICT OFFICE, HIGHWAY DIVISION, STATE OF HAWAII DEPARTMENT OF TRANSPORTATION, THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK ON THE TRAFFIC SIGNAL SYSTEM (PHONE: 873-3535).
- 16. THE TRAFFIC SIGNAL STANDARDS SHALL BE DESIGNED & CONSTRUCTED IN CONFORMANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS" OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIAL'S (AASHTO).
- 17. ALL TRAFFIC SIGNAL CONDUITS SHALL BE CONCRETE ENCASED.

CONSTRUCTION NOTES

- 1. LOCATIONS OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES SUCH AS PIPE—LINES, CONDUITS, CABLES, ETC., SHOWN ON PLANS ARE APPROXIMATE ONLY. IT IS NOT THE INTENT OF THESE PLANS TO SHOW THE EXACT LOCATION OF ALL UNDER—GROUND UTILITIES AND STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRAC—TOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES WITH THE RESPECTIVE OWNERS. EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST.
- 2. THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
- 3. THE CONTRACTOR SHALL NOTIFY ALL COMPANIES TO VERIFY, TONE AND LOCATE THEIR EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE ALL WORK.
- 4. THE LOCATIONS OF THE NEW TRAFFIC SIGNAL STANDARDS, TRAFFIC SIGNAL STANDARDS WITH MAST—ARM, PEDESTRIAN PUSH BUTTONS, TRAFFIC CONTROLLER, PULLBOXES, CONDUITS AND LOOP DETECTORS SHALL BE STAKED OUT IN THE FIELD BY THE CONTRACTOR AND APPROVAL OF THE LOCATIONS SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO CONSTRUCTION AND INSTALLATION.
- 5. ALL TRAFFIC SIGNAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," FEDERAL HIGHWAY ADMINISTRATION (2003) AND AMENDMENTS.
- 6. MAINTENANCE OF TRAFFIC THROUGH THE CONSTRUCTION AREA SHALL BE IN ACCORDANCE WITH PART VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," FEDERAL HIGHWAY ADMINISTRATION (2003) AS AMENDED AND AS SPECIFIED IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE BARRICADES, BLINKERS, CONSTRUCTION SIGNS, ETC., FOR THE SAFETY OF THE MOTORING PUBLIC.
- 7. AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND OTHER OBSTRUCTIONS TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC.
- 8. THE CONTRACTOR SHALL PROVIDE A 3-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN TRAFFIC SIGNAL CONDUIT AND ALL EXISTING UTILITY LINES.



CONDUIT BY-PASS DETAIL NOT TO SCALE



PIPE GUARD DETAIL

NOT TO SCALE

LEGEND

EXISTING

PEDESTRIAN SIGNAL HEAD

→ 12" R Y G STANDARD TRAFFIC SIGNAL HEAD

12" R Y ↑ STANDARD TRAFFIC SIGNAL HEAD

12" RY G STANDARD TRAFFIC SIGNAL HEAD

⊗→ EVP DETECTOR

☐ ☐ ☐ LOOP DETECTOR

NEW

C MODEL 170 CONTROLLER ON BASE

■ TYPE "A" PULLBOX

■ TYPE "B" PULLBOX

TYPE "C" PULLBOX

STANDARD TRAFFIC AND PEDESTRIAN SIGNAL HEADS MOUNTED ON TYPE I SIGNAL STANDARD

50°0

TRAFFIC SIGNAL HEADS MOUNTED ON TYPE III SIGNAL STANDARD 50' M.A. : 12' BETWEEN HEADS WITH A 12' ARM FOR THE LUMINAIRE

NEW CONDUIT(S) WITH SIZE & NUMBER AND TYPE OF NEW CABLES AS INDICATED.

MECO METER PEDESTAL

SPREAD SPECTRUM RADIO RECEIVER (SSR) AND DECODER FOR WIRELESS INTERCONNECT

LICENSED
PROFESSIONAL
ENGINEER
No. 8226-C

MAII, U.S.

EXP. 4/30/10

SIGNATURE

DATE

WARREN S. UNEMORI ENGINEERING, INC.
CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS
WELLS STREET PROFESSIONAL CENTER, SUITE 403
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

04010.10

MAY _{ATF} 2006

JOB NUMBER

TS-

KAONOULU COMMERCIAL CENTER

KIHEI, MAUI, HAWAII

TRAFFIC SIGNAL

TILE NOTES AND LEGEND

SIGNATURE

DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16–115–2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

SCALE

DESIGNED BY KC CHECKED BY KKN

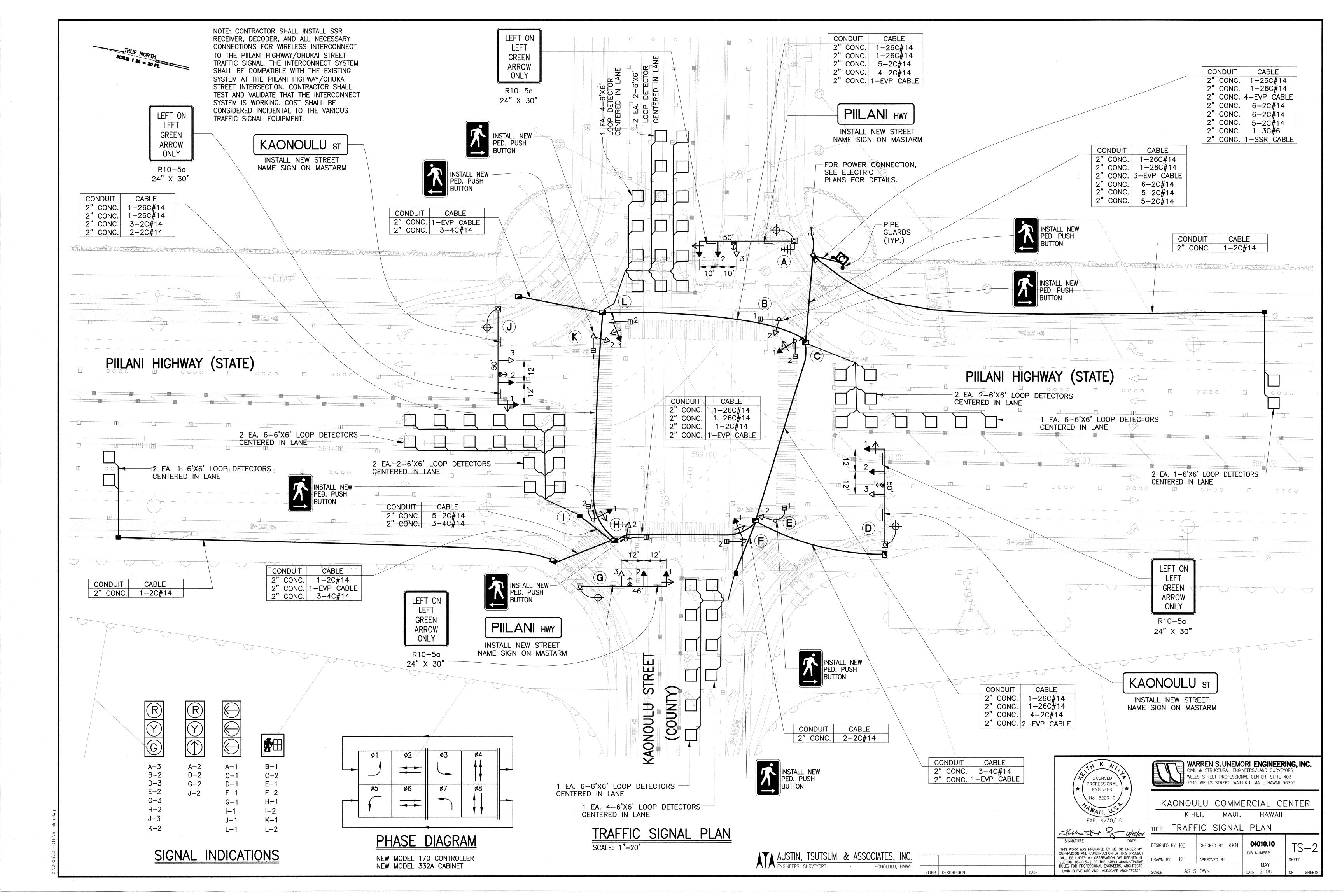
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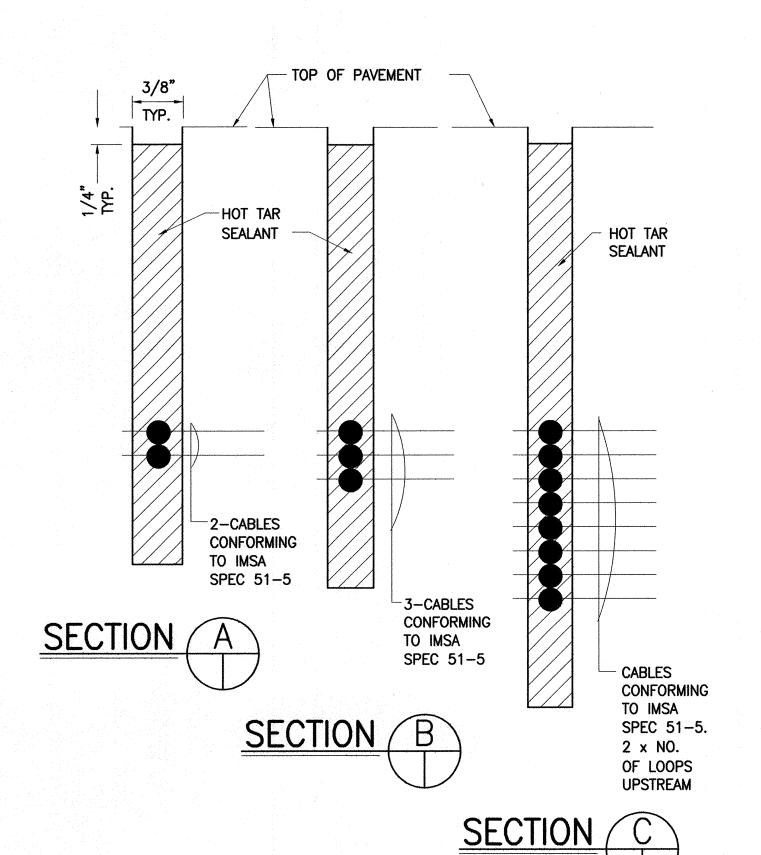
SCALE

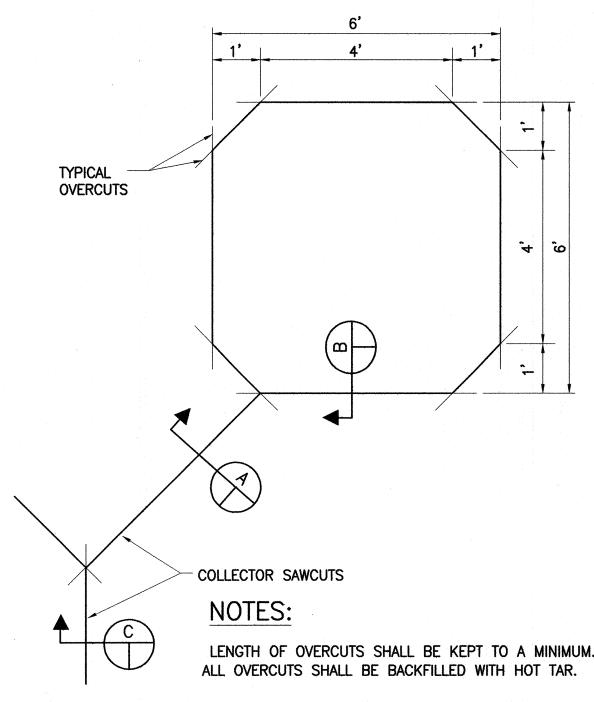
AS SHOWN

AUSTIN, TSUTSUMI & ASSOCIATES, INC.

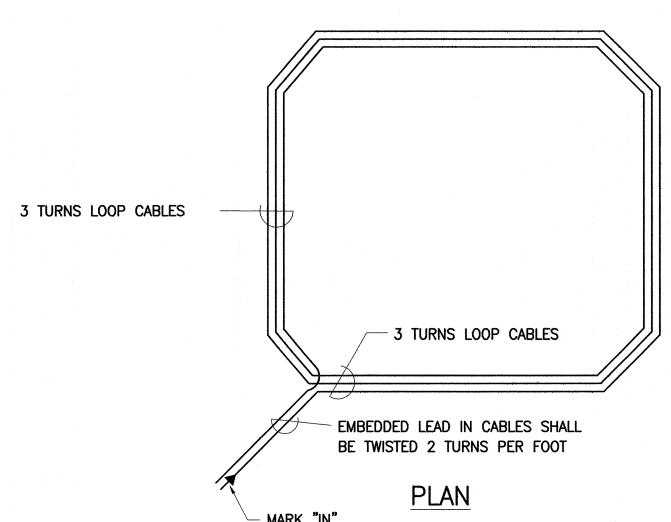
ENGINEERS, SURVEYORS • HONOLULU, HAWAII







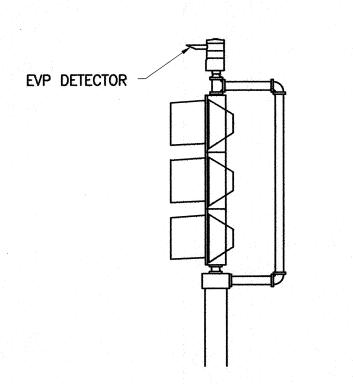
TYPICAL SENSOR LOOP SAWCUT DETAIL NOT TO SCALE



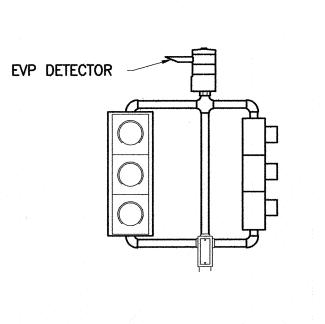
TYPICAL SENSOR LOOP WIRING DIAGRAM NOT TO SCALE

NOTES:

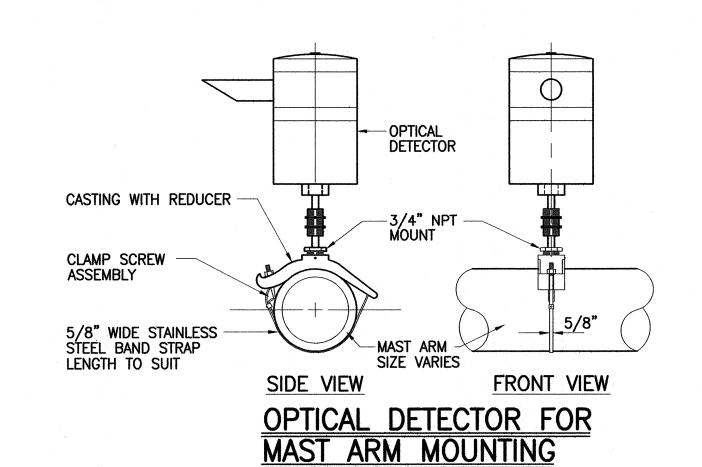
- 1. OPTICAL DETECTOR SHALL BE "MODEL 711 PREEMPTION DETECTOR" OR APPROVED EQUAL, UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
- 2. SUPPORT SADDLE ASSEMBLY SHALL BE "ASTRO MINI-BRAC, AB-0132-29", OR APPROVED EQUAL, UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.

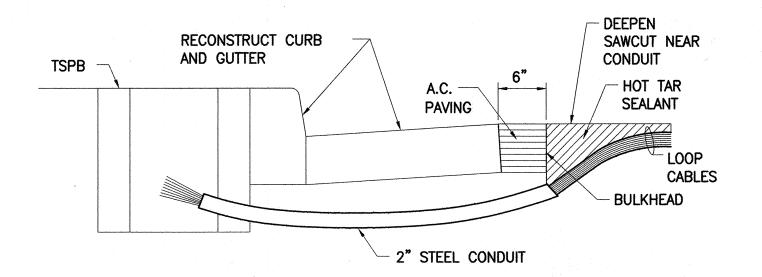


POST TOP TP-EVP MOUNTING NOT TO SCALE



POST TOP TP-EVP MOUNTING NOT TO SCALE



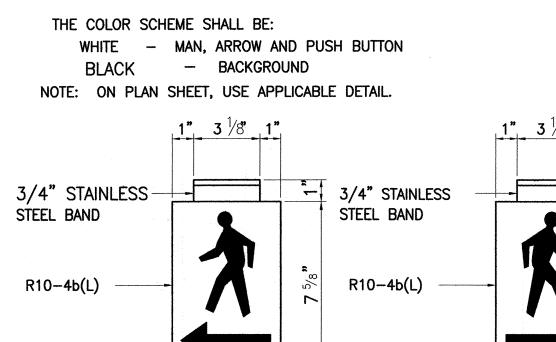


NOTES ON CONSTRUCTION AT END OF SAWCUT

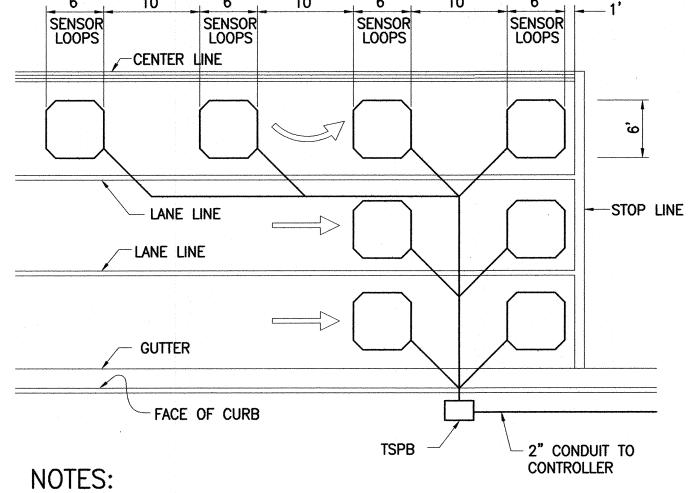
- 1. SEAL ROADWAY END OF CONDUIT AFTER INSTALLATION OF CONDUCTORS
- 2. INSTALL BULKHEAD ACROSS CONDUIT TRENCH.
- 3. PLACE HOT TAR IN SAWCUT.
- 4. BACKFILL OVER CONDUIT WITH NEW A.C.
- 5. RECONSTRUCT CURB AND GUTTER AS REQUIRED.

DETAIL OF SENSOR LOOP INSTALLATION AT EDGE OF ROADWAY

NOT TO SCALE

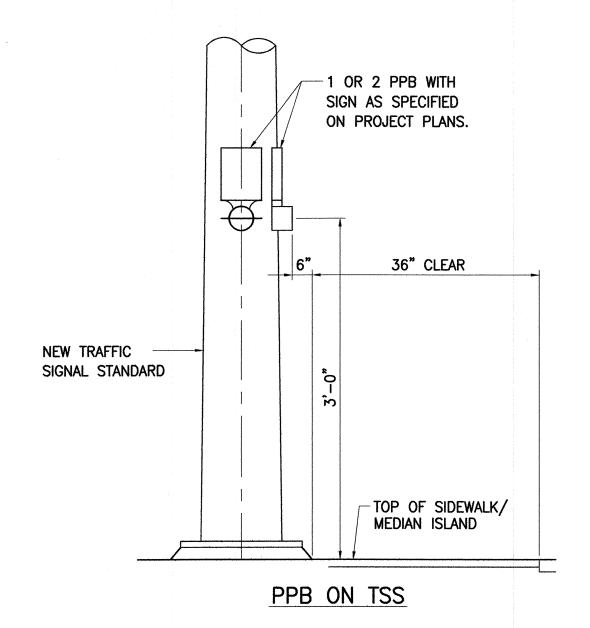


3/4" STAINLESS STEEL BAND STEEL BAND <u>LEFT</u> **RIGHT**

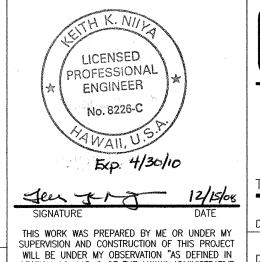


- 1. CENTER SENSOR LOOPS IN LANES.
- 2. COLLECTOR CABLES SHALL BE TWISTED 2 TURNS PER FOOT.
- 3. NUMBER OF LOOPS AND LOCATIONS VARY. SEE PROJECT PLANS.
- 4. NUMBER AND LOCATIONS OF COLLECTOR SAWCUTS MAY BE VARIED IN THE FIELD TO SUIT.

TYPICAL SENSOR LOOP LAYOUT NOT TO SCALE



PEDESTRIAN PUSH BUTTON DETAILS



WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403

KAONOULU COMMERCIAL CENTER MAUI, HAWAII

TITLE TRAFFIC SIGNAL DETAILS -04010.10 JOB NUMBER SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS" MAY DATE 2006

AUSTIN, TSUTSUMI & ASSOCIATES, INC.

ENGINEERS, SURVEYORS • HONOLULU, HAWAII

STATE RIGHT-OF-WAY BACKFILL NOTES



CONTROLLED LOW STRENGTH MATERIAL (CLSM)
APPROXIMATELY 50-150 PSI COMPRESSIVE
STRENGTH AT 28 DAYS. CLSM SHALL
COMPLY WITH WITH SECTIONS 313 AND 601 OF
THE SPECIAL PROVISIONS.

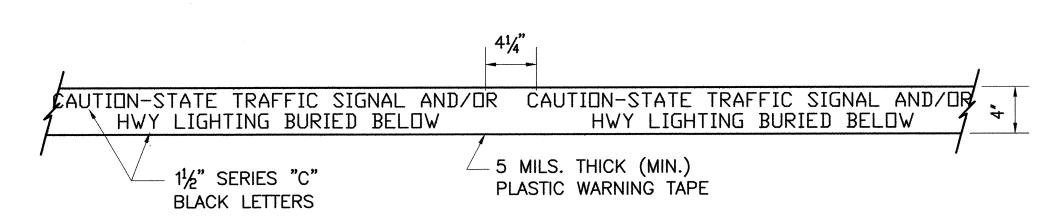


CONCRETE
3000 PSI COMPRESSIVE STRENGTH
© 28 DAYS.

NOTE: BASE COURSE & SUB-BASE COURSE PER
1994 STATE STANDARD SPECIFICATIONS
FOR HIGHWAY CONSTRUCTION.

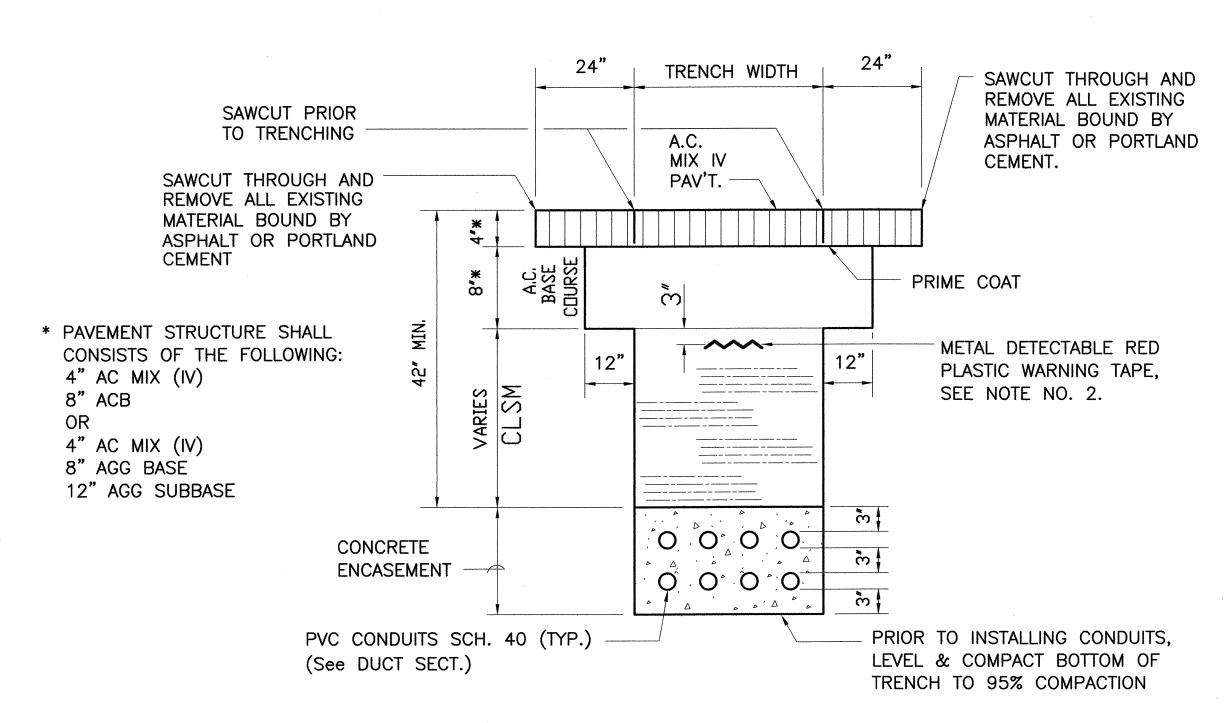
GENERAL NOTES

- 1. IF TRENCH IS LOCATED ON UNPAVED AREA, THE CONTRACTOR SHALL REPLACE 10 A.C. BASE COURSE AND 4" A.C. PAVEMENT WITH TYPE "A" TRENCH BACKFILL MATERIAL. (TRENCH BACKFILL MATERIAL "A" CONSIST OF BEACH SAND, EARTH, OR EARTH AND GRAVEL. IF EARTH AND GRAVEL IS USED, THE MAXIMUM SHALL CONTAIN NOT MORE THAN 50% BY VOLUME OF ROCK PARTICLE. MAXIMUM 8" LOOSE FILL PER LIFT OBTAIN 95% COMPACTION FOR EACH LIFT. ROCK SHALL NOT EXCEED 1" Ø.)
- 2. THE METAL DETECTABLE RED PLASTIC WARNING TAPE SHALL BE
 A MINIMUM 5 MILS THICK AND 4" WIDE WITH A CONTINUOUS
 METALLIC BACKING AND CORROSION RESISTANT 1' MIL THICK FOIL CORE.
 THE MESSAGE ON THE TAPE SHALL READ, "CAUTION STATE
 TRAFFIC SIGNAL AND/OR HWY LIGHTING BURIED BELOW,"
 UTILIZING 1/2 INCHES SERIES "C" BLACK LETTERING. THE MESSAGE WILL
 BE REPEATED WITH A 4/4" SPACING BETWEEN TOP LINE OF MESSAGE
 AND START OF NEXT REPEAT.
- 3. THE CONTRACTOR MAY BEGIN BACKFILLING THE CONDUIT TRENCH BEFORE THE CONCRETE REACHES 2500 PSI COMPRESSIVE STRENGTH BUT AFTER CONCRETE HAS HARDENED SUFFICIENTLY ENOUGH THAT BACKFILLING WILL NOT DAMAGE THE CONCRETE JACKET.
- 4. MAXIMUM FOUR (4) CONDUITS PER ROW FOR MULTIPLE CONDUIT DUCT SECTION. DUCTS SHALL BE INSTALLED WITH SPACERS AND ANCHORED TO THE GROUND BEFORE POURING CONCRETE. SPACERS SHALL BE A MAXIMUM OF 5' APART. JOINTS SHALL BE STAGGERED.
- 5. FOR DIRECT BURIED DUCT SECTIONS, THE CONCRETE JACKET REQUIRED AT THE CONDUIT BY-PASS FOR VARIOUS UTILITIES, SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 6. AFTER INSTALLING ALL THE TRAFFIC SIGNAL CABLES, THE CONTRACTOR SHALL DUCT SEAL ALL CONDUITS IN THE PULLBOXES, TRAFFIC SIGNAL STANDARDS AND TRAFFIC SIGNAL CONTROLLER CABINET CONCRETE BASE. THE DUCT SEAL MATERIAL SHALL BE APPROVED BY THE TRAFFIC SIGNAL INSPECTOR/ENGINEER.

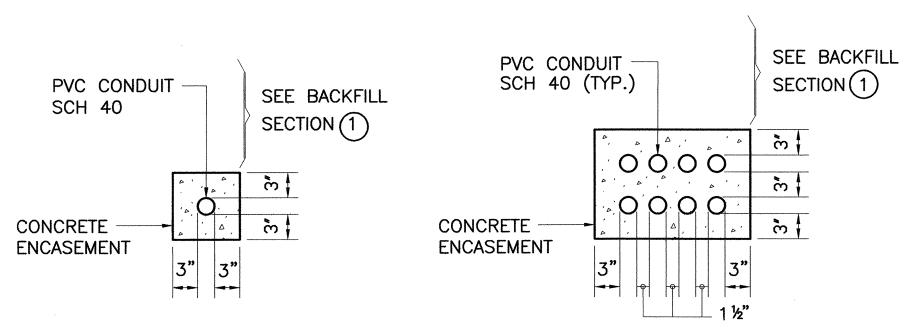


FOR ADDITIONAL INFORMATION SEE NOTE NO.2.

METAL DETECTABLE RED PLASTIC WARNING TAPE



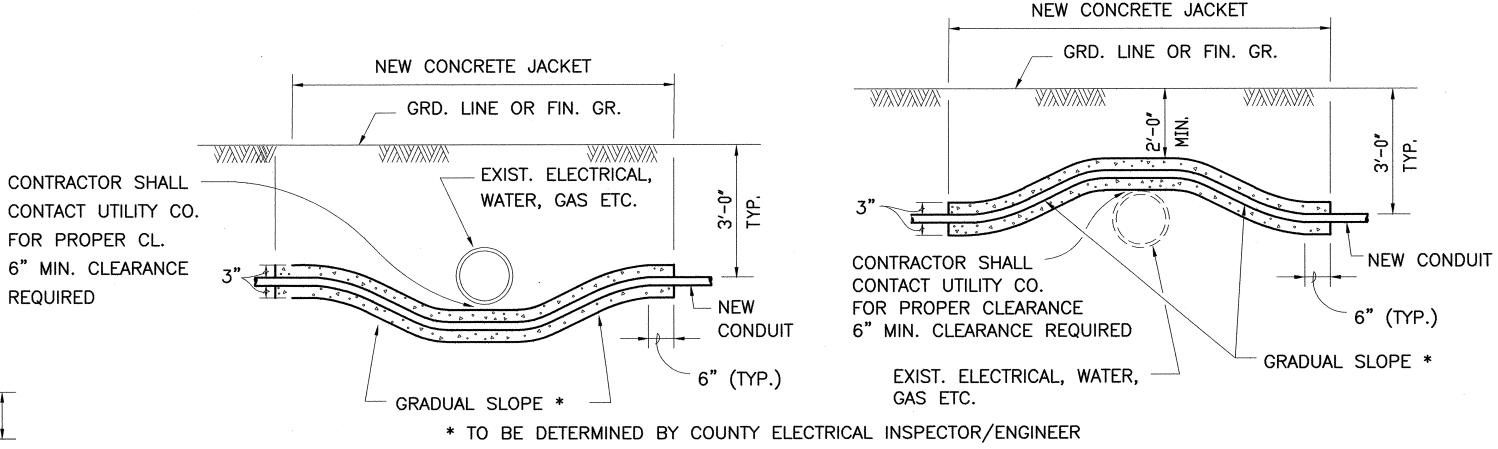
1)TYPICAL BACKFILL SECTION WITH CONCRETE ENCASED DUCTS



SINGLE CONDUIT

MULTIPLE CONDUIT

DUCT SECTIONS - CONC. ENCASED



NOTE: FOR EXIST. SEWER LINES & LATERALS, CONTRACTOR SHALL MAINTAIN 18" MIN. VERTICAL CLEARANCE.

CONDUIT BY-PASS DETAIL AT VARIOUS UTILITIES NOT TO SCALE

AUSTIN, TSUTSUMI & ASSOCIATES, INC.

ENGINEERS, SURVEYORS • HONOLULU, HAWAII

LICENSED
PROFESSIONAL
ENGINEER
No. 8226-C

No. 8226-C

No. 8226-C

SIGNATURE

THIS WORK WAS PREPARED BY ME OR UNDER MY
SUPERVISION AND CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION "AS DEFINED IN
SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE
RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS,
LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

SCALE

WARREN S. UNEMORI ENGINEERING, INC.
CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS
WELLS STREET PROFESSIONAL CENTER, SUITE 403
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU COMMERCIAL CENTER
KIHEI. MAUI. HAWAII

TITLE TRAFFIC SIGNAL DETAILS - 2

SIGNATURE DATE

HIS WORK WAS PREPARED BY ME OR UNDER MY JPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN ECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE JLES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

DESIGNED BY KC CHECKED BY KKN

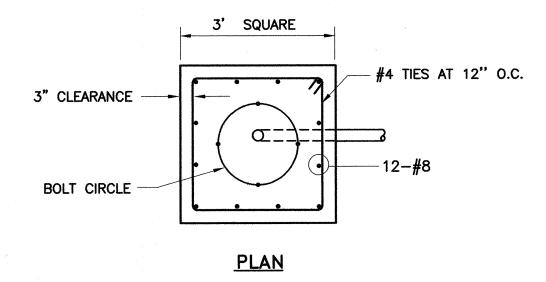
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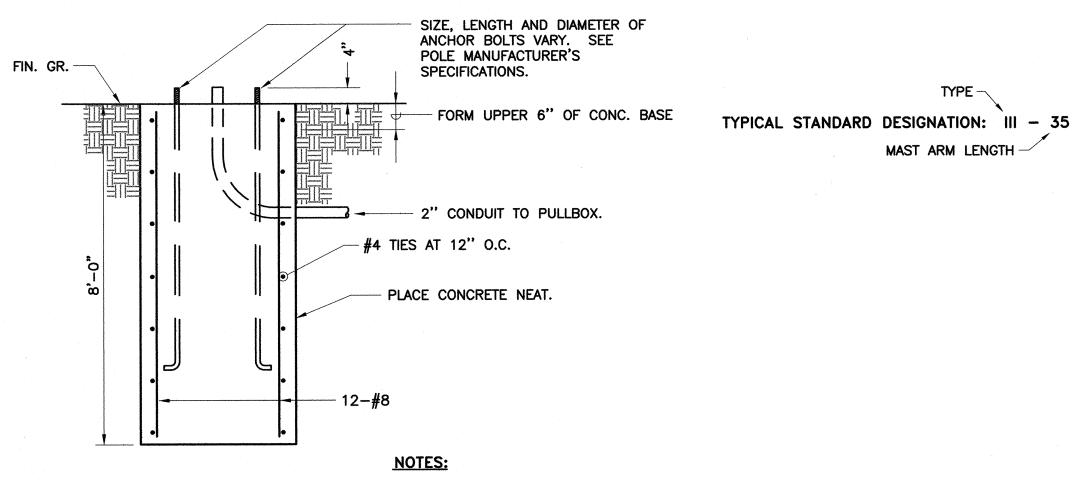
DRAWN BY KC APPROVED BY

MAY

SCALE AS SHOWN

DATE 2006

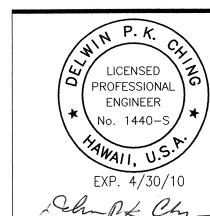




ELEVATION

- 1. CONCRETE SHALL BE CLASS "B".
- TYPE "C" CONCRETE BASE SHALL BE USED FOR TYPES II AND III TRAFFIC SIGNAL STANDARDS.
- 3. DESIGN LATERAL PRESSURE: 1,500 PSF.
- 4. CONDUIT BEND IS INCIDENTAL TO CONCRETE BASE.

TYPE "C" CONCRETE BASE NOT TO SCALE



WARREN S. UNEMORI ENGINEERING, INC.
CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS
WELLS STREET PROFESSIONAL CENTER, SUITE 403
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU COMMERCIAL CENTER

KIHEI, MAUI, HAWAII TITLE TRAFFIC SIGNAL DETAILS - 3

04010.10 DESIGNED BY KC CHECKED BY KKN JOB NUMBER MAY

AUSTIN, TSUTSUMI & ASSOCIATES, INC.

ENGINEERS, SURVEYORS • HONOLULU, HAWAII

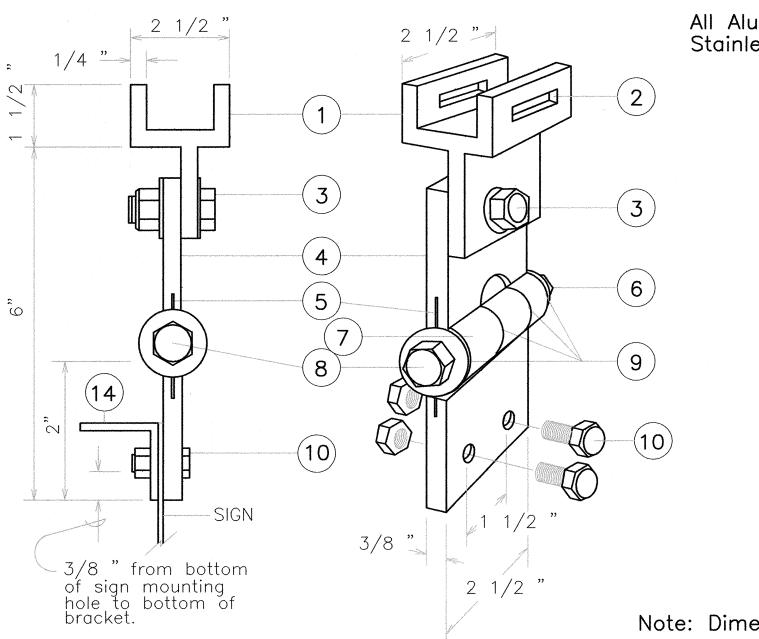
THIS WORK WAS PREPARED BY ME OR UNDER MY
SUPERVISION AND CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION "AS DEFINED IN
SECTION 16–115–2 OF THE HAWAII ADMINISTRATIVE
RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS,
LAND SURVEYORS AND LANDSCAPE ARCHITECTS"

DESIGNED BY KC CHECKED BY K

DRAWN BY KC APPROVED BY

SCALE AS SHOWN

DATE 2006



All Aluminum 6061T6 Alloy and Stainless Steel Components.

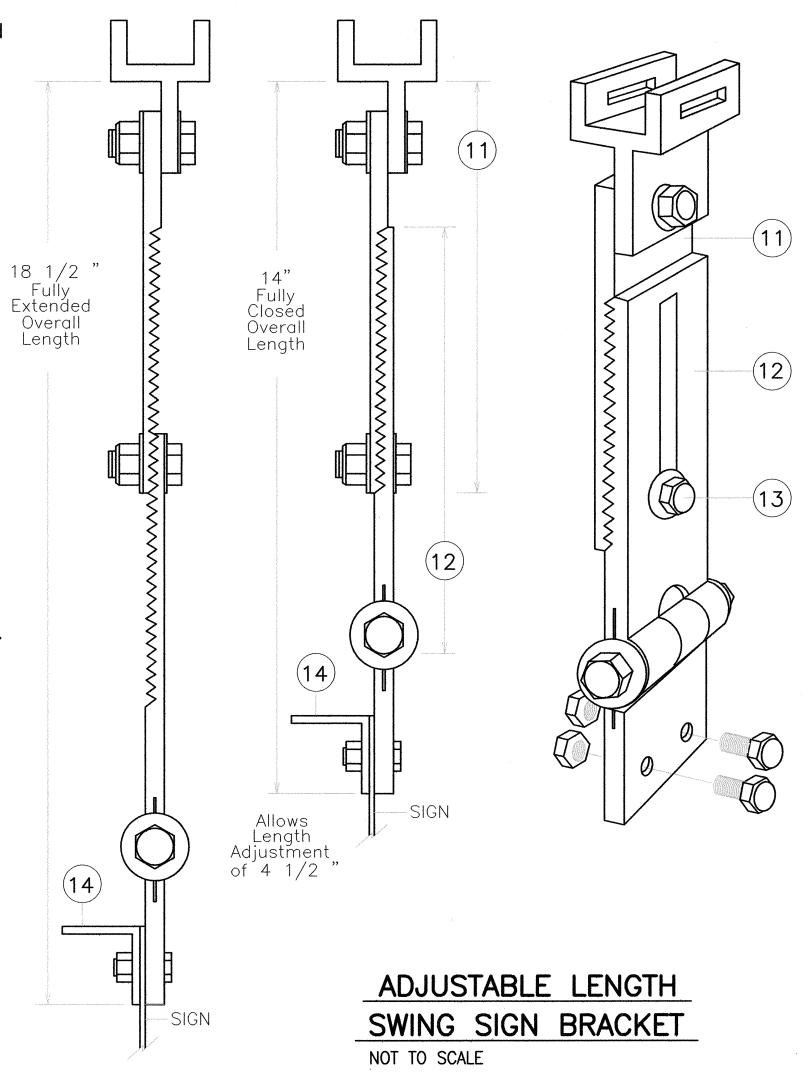
Note: Dimensions may vary slightly.

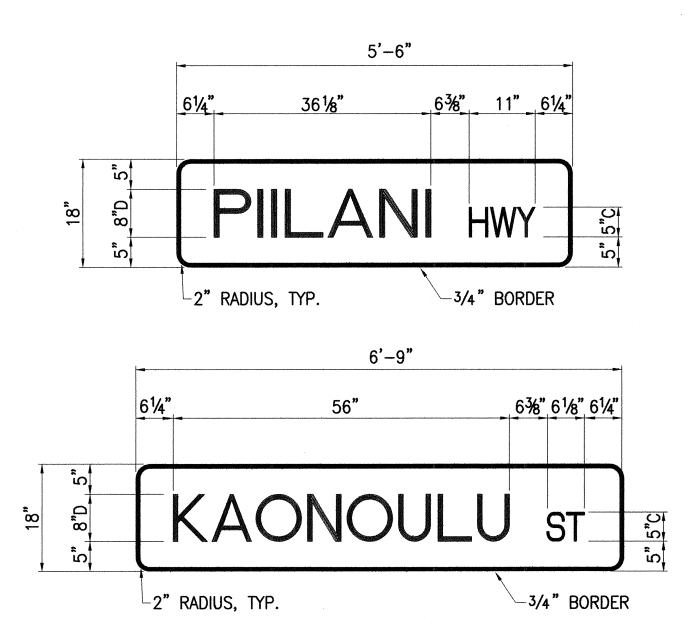
FIXED LENGTH NON-ADJUSTABLE

SWING SIGN BRACKET

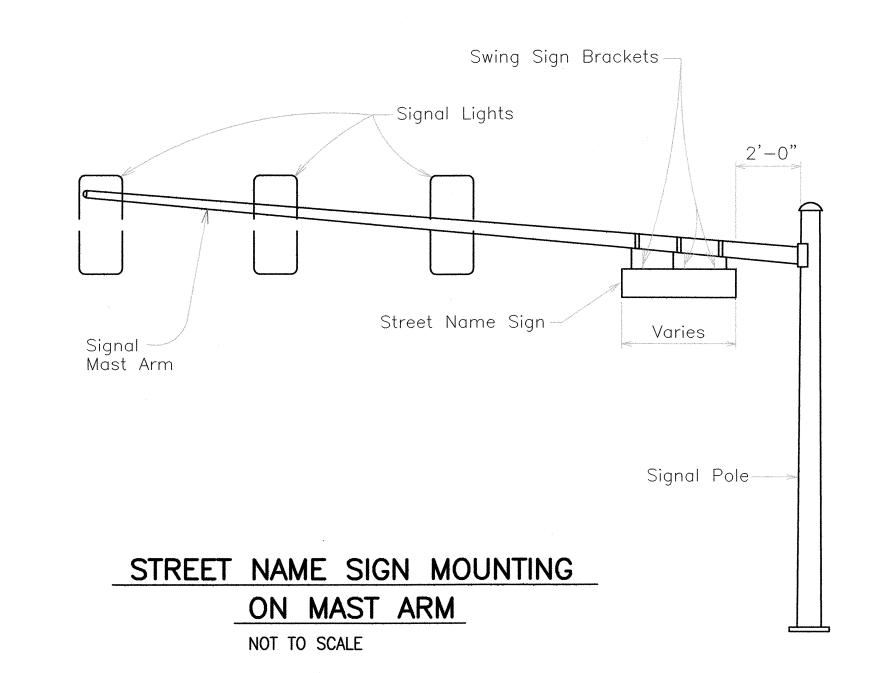
NOT TO SCALE

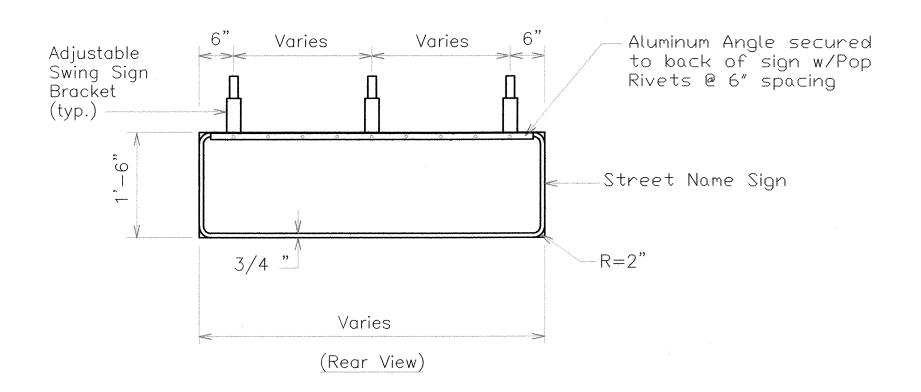
- (1) Pivotal Upper Bracket
- 2 1 5/8 " x 1/4" Slot for double strapping to electrolier mast arm. $(M2G-34S(HD) .030" \times 3/4"$ Heavy Duty Stainless Steel Strap with M2G-34B(HD) Buckle recommended.)
- (3) 1/2 " 13 x 1 1/2 " Stainless Steel Hex Head Bolt with Stainless Steel Hex Lock Nut and 1/16 "Stainless Steel Washer (both sides). Allows upper bracket to pivot and align with electrolier mast arm.
- (4) 6" Overall drop with Fixed Length Sign Bracket
- 5 Stainless Steel Dampener Spring (Removable)
- 6 Stainless Steel Hex Lock Nut with 1/16 "Stainless Steel Washer
- (7) 1" O.D. Axle Housing
- (8) 1/2 " 13 x 4" Stainless Steel Hex Head Bolt with 1/16 " Stainless Steel Washer
- (9) Oilite Bushing
- 10 Sign Mounting Sets, consisting of two each 5/16 " 18 x 1" Stainless Steel Hex Head Bolt with Stainless Steel Hex Lock Nut. Two holes on $1 \frac{1}{2}$ centers provide positive lock sign mounting to bracket.
- (11) 8 1/4 " overall length Upper Adjustable Sign Bracket section
- (12) 9" overall length Lower Adjustable Sign Bracket section, including Axle Housing (8" overall length to top of Axle Housing)
- (13) 1/2 " 13 x 1 1/2 " Stainless Steel Hex Bolt with Stainless Steel Hex Lock Nut and 1/16 "Stainless Steel Washers (both sides). Loosen lock nut, adjust bracket teeth to level sign.
- 14) 1 1/4 " x 1 1/4 " x 1/8 " Aluminum Angle



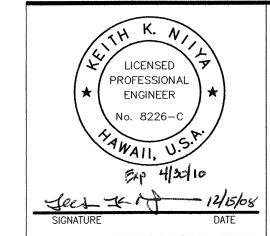


STREET NAME SIGN DETAILS NOT TO SCALE





PANEL & SWING BRACKET LAYOUT FOR STREET NAME SIGN NOT TO SCALE



WARREN S. UNEMORI ENGINEERING, INC.
CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS
WELLS STREET PROFESSIONAL CENTER OF THE PROFESSIO

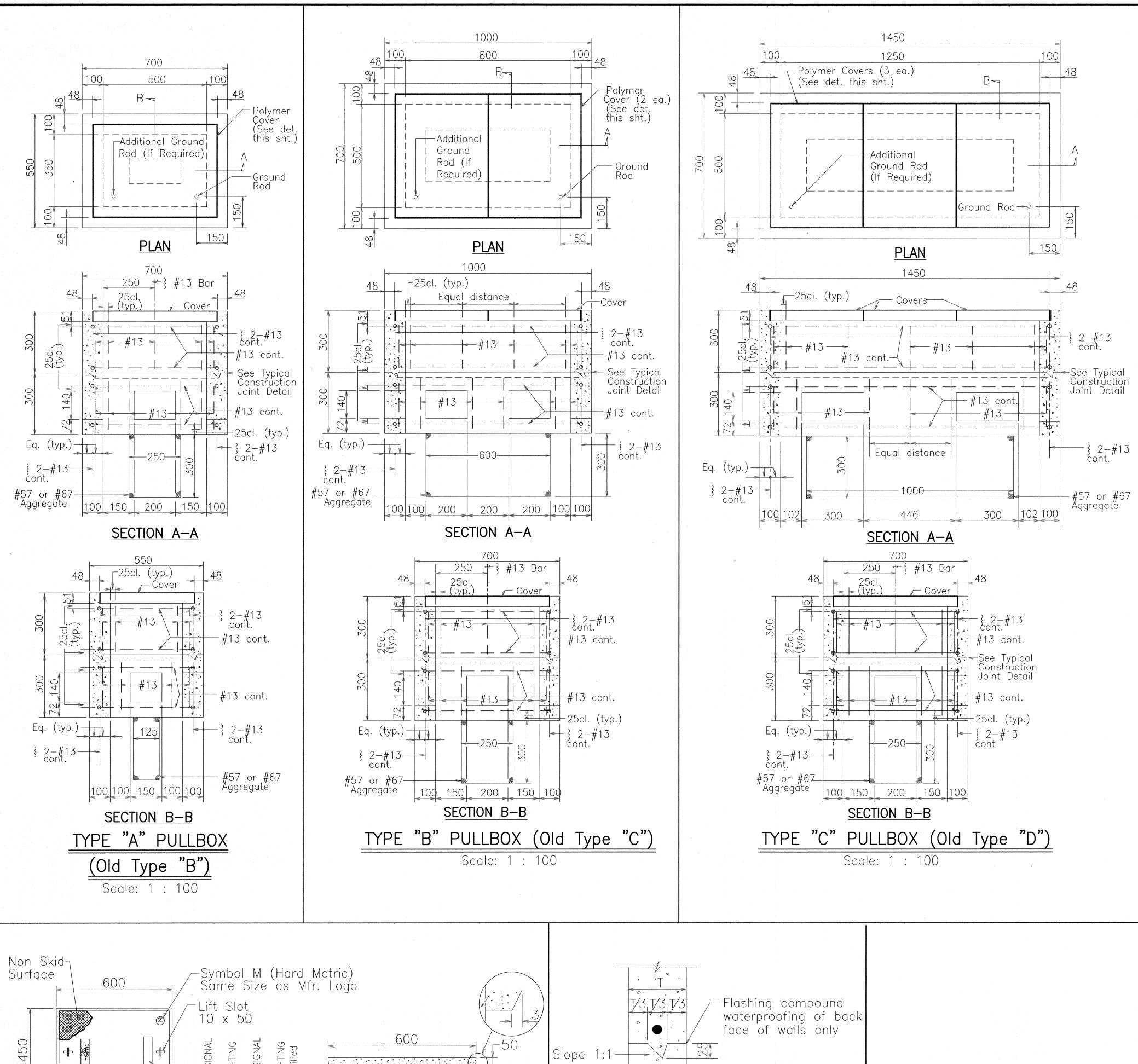
KAONOULU COMMERCIAL CENTER KIHEI, MAUI, HAWAII

DATE 2006

TITLE STREET NAME SIGN DETAILS 04010.10 TS-6THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS MAY

AUSTIN, TSUTSUMI & ASSOCIATES, INC.

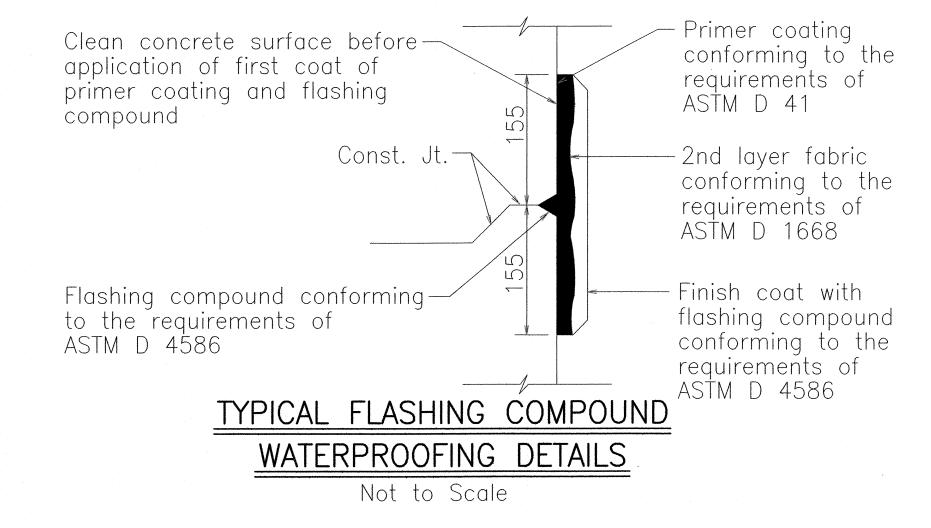
ENGINEERS, SURVEYORS • HONOLULU, HAWAII



ALL DIMENSIONS ARE IN MILLIMETERS **UNLESS OTHERWISE SHOWN**

GENERAL NOTES

- 1. Provide a minimum of one 160 x 2.5m Copperweld Ground Rod in each pullbox. When directed by the Traffic Signal Inspector/Engineer, install additional Ground Rods. Cost of Ground Rods shall be incidental to the pullboxes.
- 2. All pre-cast concrete pullboxes shall be manufactured in two pieces.
- The pullbox with cover shall be capable of supporting an MS 18 Loading.
- 4. The maximum weight of the pullbox cover shall not exceed 27 kilograms.
- 5. The openings for the conduits on all pullboxes shall be pre-cast concrete
- 6. After installing the conduits in the openings of the pullboxes, the Contractor shall fill the excess opening in the pre—cast knockouts with concrete mortar.
- 7. Prior to installing the pullboxes, the Contractor shall level the bottom of the trench and achieve a minimum of 95% relative compaction of the bottom of the trench.
- 8. All concrete shall be Class A (21MPa or 3000PSI, min.)
- 9. Rebars shall be Grade 300 and all lapped splices shall be 360mm minimum.
- 10. The #57 or #67 size aggregate shall conform to latest version of AASHTO M43 (ASTM D 448).
- 11. Type "C" Pullbox shall be installed in a location protected from vehicular traffic (i.e. raised sidewalk, behind A.C. curbs, traffic signal standard or pipe guards).



WARREN S. UNEMORI ENGINEERING, INC.
CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS

KAONOULU COMMERCIAL CENTER

PULLBOX DETAILS

HAWAII

TS-7

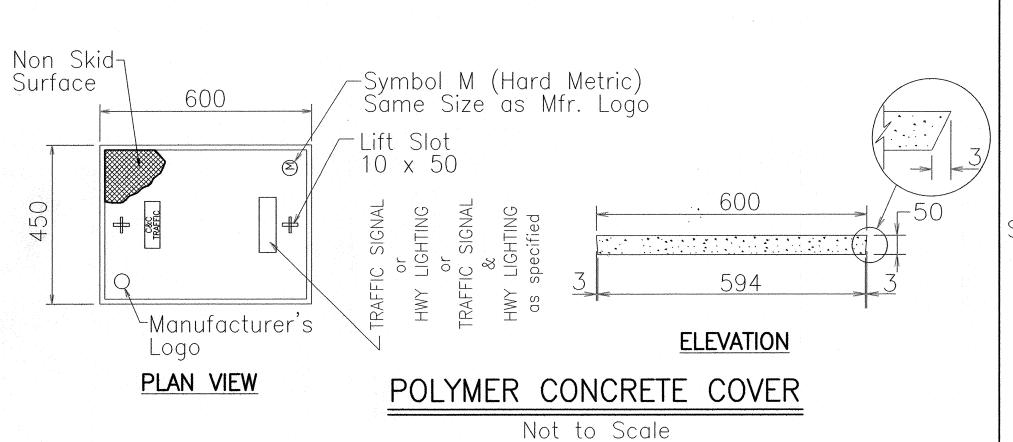
04010.10

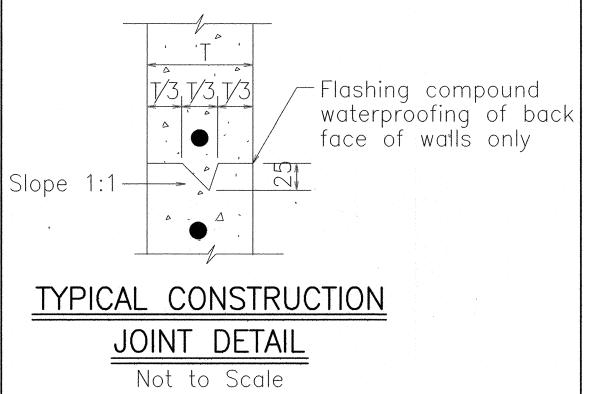
MAY ATF 2006

JOB NUMBER

MAUI.

CHECKED BY KKN





LICENSED PROFESSIONAL ENGINEER No. 8226-C THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, AUSTIN, TSUTSUMI & ASSOCIATES, INC.

ENGINEERS, SURVEYORS • HONOLULU, HAWAII

GENERAL NOTES:

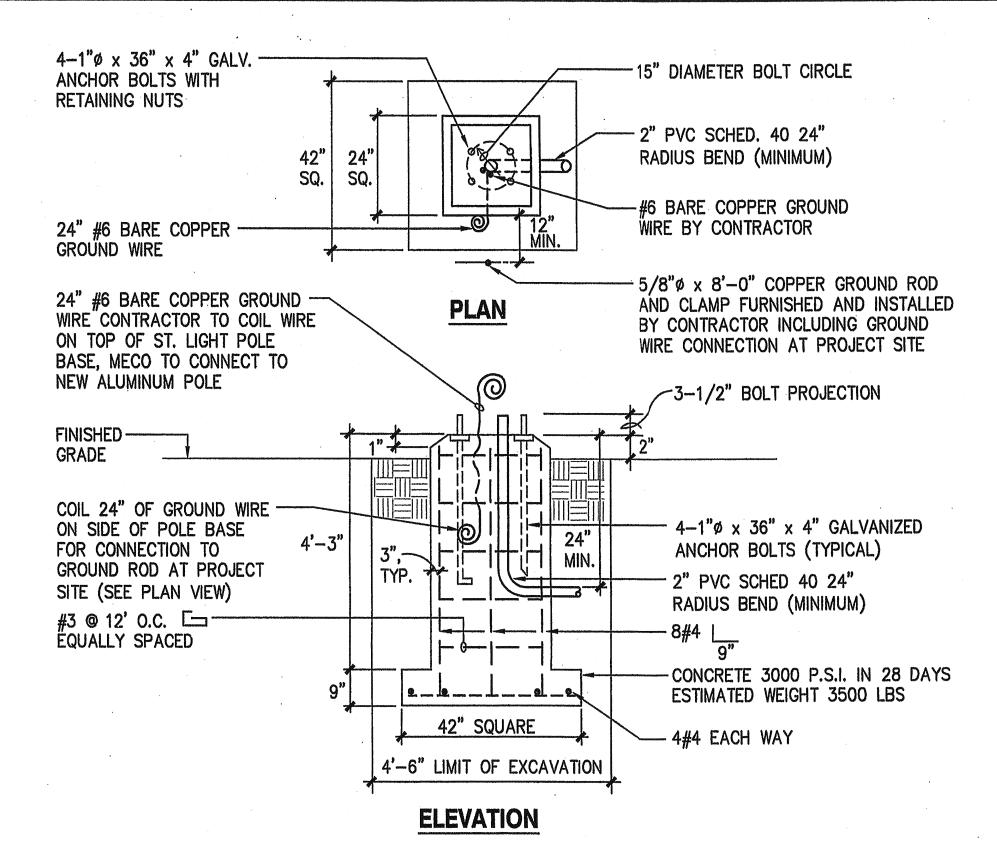
- COORDINATE ALL DUCT WORK WITH RESPECTIVE UTILITY COMPANIES.
- 2. SEE UTILITY COMPANY STANDARD DRAWINGS FOR ALL DETAILS. COORDINATE DUCT ENTRIES INTO HANDHOLES AND MANHOLES WITH UTILITY COMPANY.
- CONTRACTOR SHALL EXCLUDE UTILITY COMPANY SERVICE CHARGES. ALL COSTS PAID BY DEVELOPER.
- HANDHOLES AND MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING UTILITY COMPANY STANDARDS.
 - a) 2' x 4' MECO HH PRECAST CONCRETE, PER #30-2005
 - 3' x 5' MECO HH PRECAST CONCRETE, PER #18841
 - 4' x 6' MECO HH PRECAST CONCRETE, PER #18842 5' x 7' MECO HH - PRECAST CONCRETE, PER #18843
 - 6' x 11' MECO HH PRECAST CONCRETE, PER MECO #18844, 6'-6' DEEP

 - 2' x 4' TEL HH PRECAST CONCRETE, PER #435TB 3' x 5' TEL HH - PRECAST, PER GTE SPEC. #GTS-8395
 - 4' x 6' TEL HH, TYPE 1 PRECAST, PER GTE SPEC. #GTS-8395
 - 4' x 6' TEL MH PRECAST CONCRETE, PER GTS #8395 #GTE 4x6.5x6.5
 - 5' x 10' TEL MH PRECAST CONCRETE, PER GTS #8395 #GTE 5x10.5x6.5
 - 6' x 12' TEL MH PRECAST CONCRETE, PER GTS #8395 #GTE 6x12x7 2' x 4' CATV HH - PRECAST CONCRETE, 24" MINIMUM DEPTH, NON-SKID
 - COVER WITH "CATV" STENCIL

TELEPHONE GENERAL NOTES:

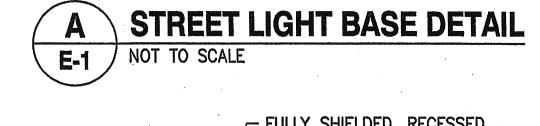
- INSTALLATION OF TELEPHONE DUCTLINE SYSTEM SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF VERIZON HAWAII'S "STANDARD SPECIFICATIONS FOR PLACING UNDERGROUND TELECOMMUNICATIONS SYSTEM", MAR 1999, UNLESS OTHERWISE MODIFIED IN THESE PLANS. CHECK WITH VERIZON HAWAII PRIOR TO ORDERING MATERIAL FOR THE DUCTLINE SYSTEM INSTALLATION WORK.
- 2. THE CONTRACTOR WILL PROVIDE A 5/8" x 8' GALVANIZED GROUND ROD IN EACH HANDHOLE AND/OR PULLBOX AND BELOW A TELEPHONE CABINET.
- 3. ALL CONDUITS WILL ENTER AND LEAVE THE HANDHOLE/PULLBOX AT 90 DEGREES TO THE FACE OF THE BOX.
- 4. THE MAXIMUM SIZE CONDUIT THAT MAY ENTER THE SIDE WALL OF A 2' x 4' PULLBOX IS 2".
- ALL CONDUITS WILL BE TERMINATED WITH A BELL END. THE BELL END SHALL BE FLUSH WITH THE INSIDE FACE OF THE PULLBOX WALL. NO PROTRUSION OF THE BELL END WILL BE PERMITTED.
- ALL ENTRANCES INTO THE PULLBOX WILL BE GROUTED AROUND THE CONDUIT. THE INSIDE SURFACE SHALL BE FINISHED SMOOTH AND FLUSH WITH THE EXISTING WALL SURFACE.
- 7. ALL CONDUITS SHALL HAVE AN 1800#, POLYESTER MULETAPE (NEPTCO WP1800P, VERIZON HAWAII MATERIAL CODE NO. 571154) INSTALLED THROUGHOUT ITS ENTIRE LENGTH. ALL CONDUITS SHALL BE CAPPED WITH A TEMPORARY CAP TO PREVENT THE ENTRANCE OF FOREIGN MATERIAL DURING CONSTRUCTION. THE TEMPORARY CAPS SHALL REMAIN INSTALLED ON EACH CONDUIT ENTERING A PULLBOX OR HANDHOLE AT THE COMPLETION OF THE INSTALLATION.
- 8. ALL CONDUIT AND PULLBOXES/HANDHOLES INSTALLED BY THE CONTRACTOR FOR USE BY VERIZON HAWAII WILL BE SUBJECT TO INSPECTION. THE INSPECTION SHALL TAKE PLACE PRIOR TO BACKFILL OR CONCRETE ENCASEMENT. CALL FOR INSPECTION 3 WORKING DAYS PRIOR TO SCHEDULE THE INSPECTION.
- 9. AFTER DUCTLINE HAS BEEN COMPLETED, A MANDREL NOT LESS THAN 12" LONG AND HAVING A DIAMETER OF 1/4" LESS THAN INSIDE DIAMETER OF DUCT, SHALL BE PULLED THROUGH EACH DUCT AFTER WHICH A BRUSH WITH STIFF BRISTLES SHALL BE PULLED THROUGH TO MAKE CERTAIN THAT NO PARTICLES OF EARTH, SAND, OR GRAVEL HAVE BEEN LEFT IN THE LINE.
- 10. A VERIZON HAWAII STANDBY MAN IS REQUIRED TO BE AT THE JOB SITE ANY TIME NON-UTILITY CO. PERSONNEL WILL BE BREAKING INTO OR ENTERING ANY STRUCTURES THAT CONTAIN COMMUNICATION FACILITES. THE WORKING DAYS ADVANCE NOTICE IS REQUIRED FOR ANY INSPECTION OR STANDBY MAN. FIVE WORKING DAYS ADVANCE NOTICE IS REQUIRED FOR UNDERGROUND CABLE LOCATING AND MARKING.
- 11. THE DEVELOPER WILL BE RESPONSIBLE FOR ALL REVISIONS REQUIRED ON TELEPHONE DESIGN. DUE TO FIELD CONDITIONS.
- MINIMUM BENDING RADIUS SHALL BE 24" FOR 2" DUCT, 36" FOR 4" DUCT,
- 13. MINIMUM HORIZONTAL CURVE FOR 4" DUCT IS 25' RADIUS, MINIMUM VERTICAL CURVE FOR 4" DUCT IS 20' RADIUS.
- 14. ALL PULLBOXES INSTALLED IN NON-SIDEWALK AREAS WILL REQUIRE A 10" CONCRETE COLLAR, 5" THICK AROUND THE ENTIRE COVER FEATHERED TO FINISHED GRADE.
- 15. ONE PIECE 2' x 4' PULLBOXES WILL BE ACCEPTED ONLY IN AREAS WITH CURBS AND GUTTERS, STANCHIONS, OR BERMS.
- 16. THE APPROVAL OF THE SUBJECT DRAWING(S) IS GOOD FOR A PERIOD OF 180 DAYS. IF CONSTRUCTION ACTIVITIES HAVE NOT COMMENCED WITHIN THE 180 DAYS OF VERIZON HAWAII'S APPROVED DATE, THE APPROVAL WILL BE VOID. SHOULD THIS OCCUR, THE GENERAL CONTRACTOR WILL BE NOTIFIED UPON RECEIPT OF REQUEST FOR INSPECTION OF UNDERGROUND TELEPHONE SUPPORT STRUCTURES.

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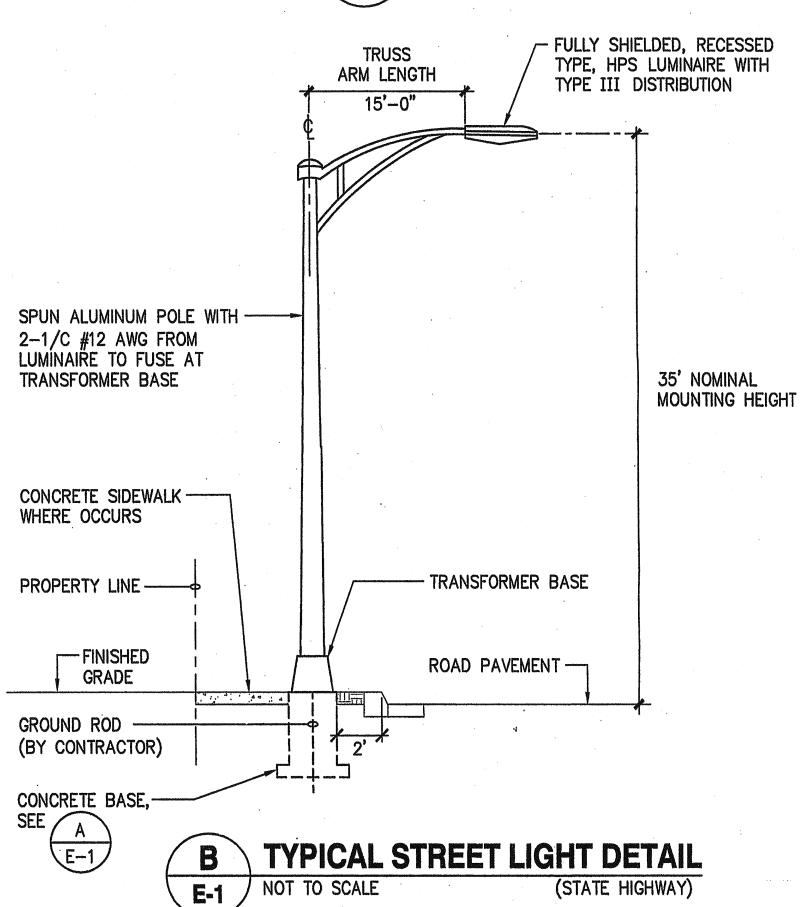


NOTES:

- THIS ITEM PREFABRICATED BY WALKER INDUSTRIES AT MAUI CONCRETE AND AGGREGATE.
- 2. MECO SHALL PROVIDE 1"ø x 36" x 4" ANCHOR BOLTS (4 EACH) AS FURNISHED BY MANUFACTURER. PICK-UP BY CONTRACTOR AT MECO'S KAHULUI WAREHOUSE.
- INSPECTION BY MECO INSPECTOR REQUIRED PRIOR TO FABRICATION OF FOOTING, CONTACT MECO INSPECTOR (PHONE: 871-8461).



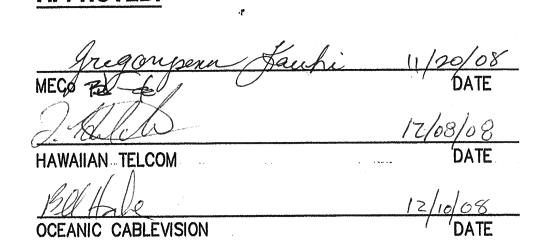
(STATE HIGHWAY)



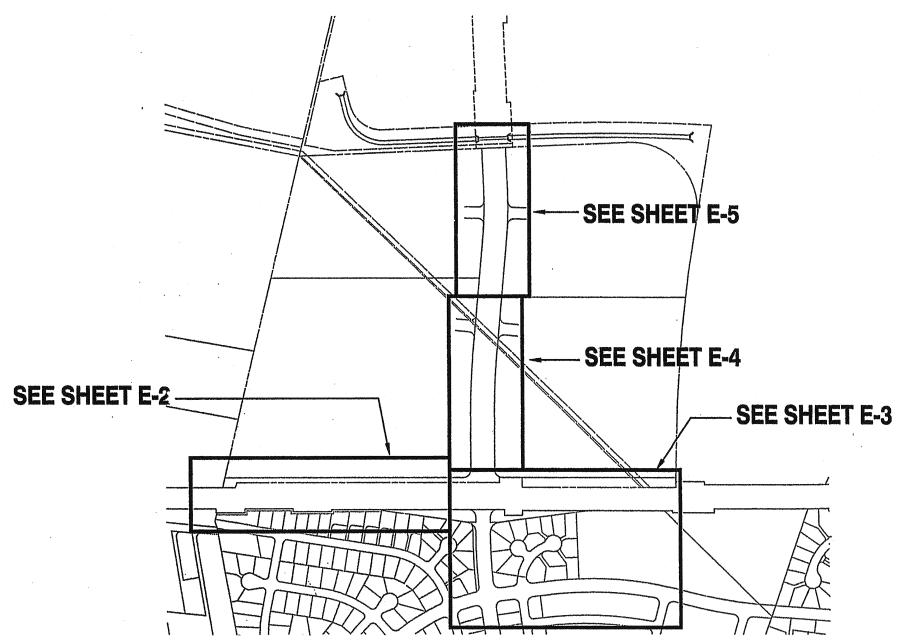
STREET LIGHT NOTES:

- CONTRACTOR SHALL CONSTRUCT AND INSTALL CONCRETE STREET LIGHT FOOTING AND PROVIDE NECESSARY MATERIALS.
- 2. MECo SHALL PROVIDE THE 1"\(\pi \times 36\) x 4" GALVANIZED ANCHOR BOLTS TO BE INSTALLED BY CONTRACTOR.
- MECO SHALL PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL WIRES, ALUMINUM POLES AND FIXTURES.
- CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 3.000 P.S.I. AT 28 DAYS.
- 5. OTHER TRADES SHALL BE ALLOWED AMPLE TIME TO PERFORM THEIR WORK.

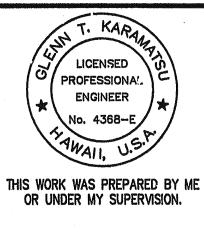
APPROVED:



	ELECTRICAL SYMBOL LIST						
SYMBOLS	DESCRIPTION						
•	STREET LIGHT BASE FOR MECO STREET LIGHT PER A E-1						
<u></u>	EXISTING STREET LIGHT						
□ _{P.B.}	2' x 4' MECO PULLBOX						
0	MANHOLE, TYPE AS NOTED						
	UTILITY HANDHOLE GROUP, TYPE AS NOTED						
Р	PME SWITCH CONCRETE PAD, SEE E-6						
	1¢ MECO TRANSFORMER PAD IN MECO EASEMENT						
Part of the public desired and the second and the s	STUB-OUT WITH CAP AND CONCRETE MARKER FOR FUTURE						
CHESCHENSIA TO CHESCHENIC TO C	UNDERGROUND ELECTRICAL DUCTLINE, SEE DUCT SCHEDULE E-6, CONCRETE ENCASED						
emperings entermine adversing paradorns declarated extension (posterior	EXISTING DUCTLINE						
Parameter	MECO DUCTS						
evice-outhernormous Tedestreamentamentament	TEL DUCTS						
TV	CATV DUCTS						
SL	STREET LIGHT DUCT, 2" PVC SCHEDULE 40, WIRING BY MECO, DIRECT BURIED						
A 1	DUCT SCHEDULE INDICATOR. 1 = DUCT TYPE, A = DUCT SECTION TYPE						
1 E-3	DETAIL INDICATOR TOP HALF: DETAIL LETTER BOTTOM HALF: SHEET ON WHICH SHOWN						
CATV	CABLE TELEVISION (OCEANIC CABLEVISION)						
GFCI	GROUND FAULT CIRCUIT INTERRUPTER						
GND	GROUND						
HHG	HANDHOLE GROUP						
MECo	MAUI ELECTRIC COMPANY						
NL	NIGHT LIGHT						
TEL	TELEPHONE (HAWAIIAN TELCOM)						
	// i d						







PROJECT ENGINEER for ECS. Inc.

APRIL 30, 2006
EXPIRATION DATE OF THE LICENSE



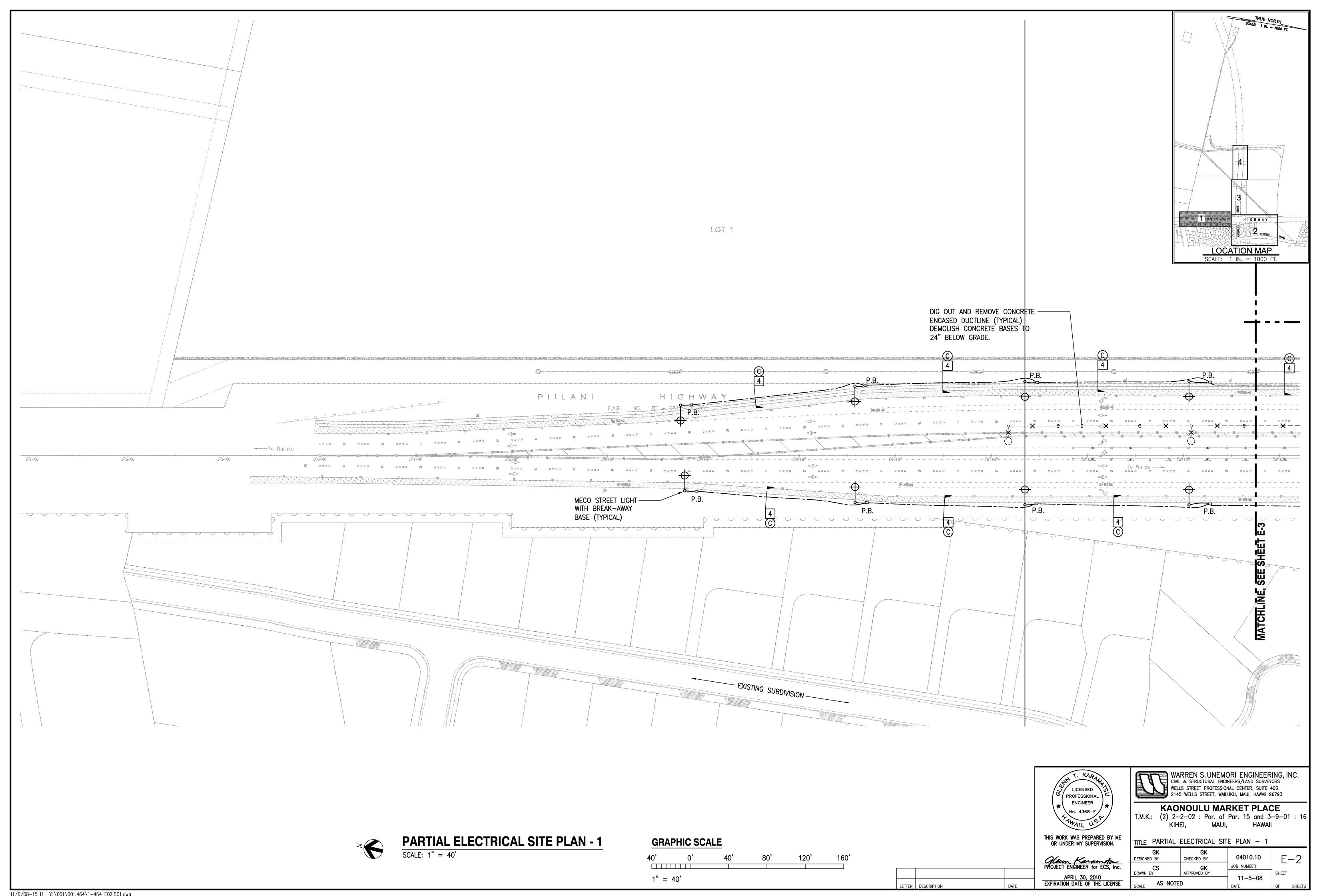
WARREN S. UNEMORI ENGINEERING, INC. WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

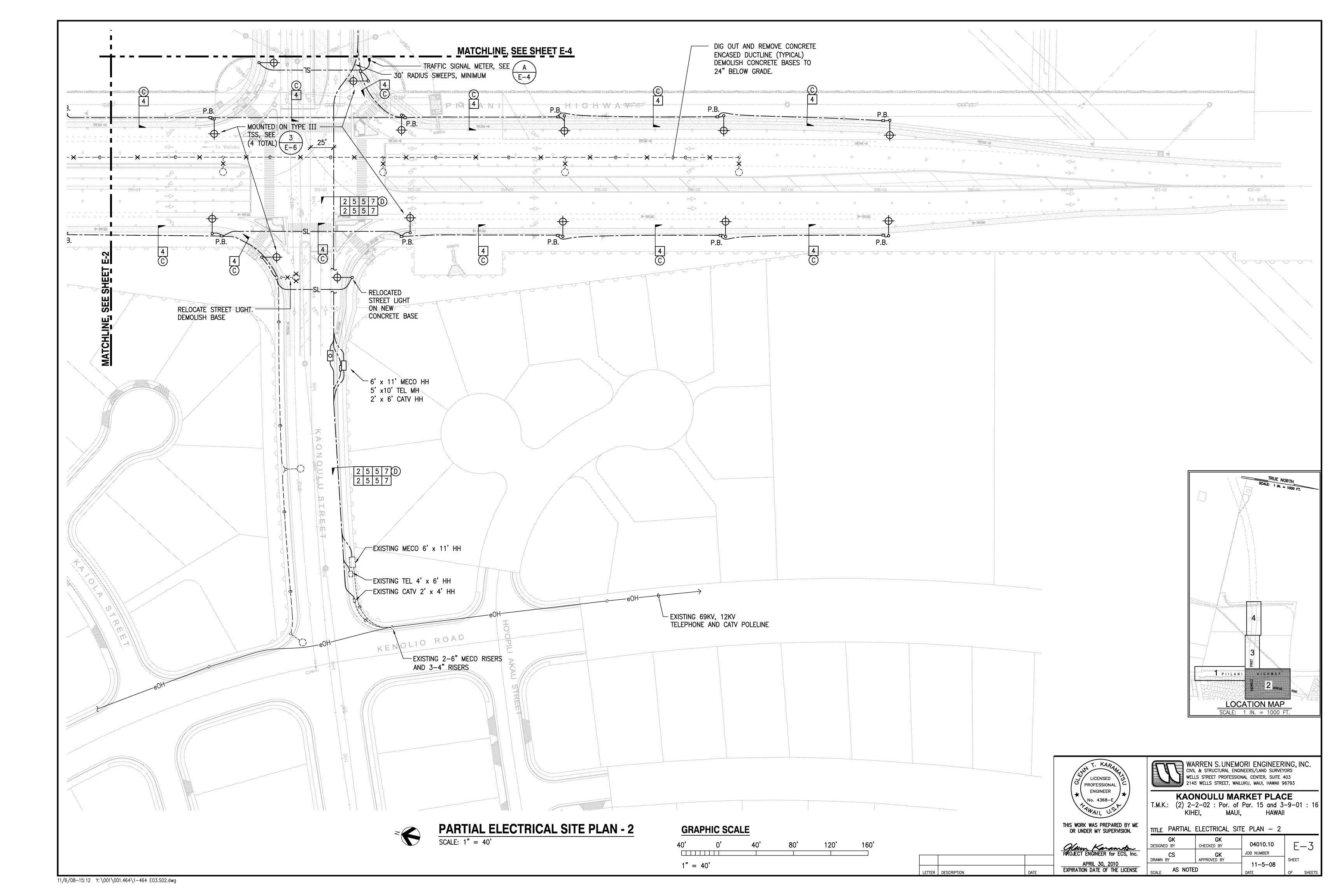
KAONOULU MARKET PLACE T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16 MAUI.

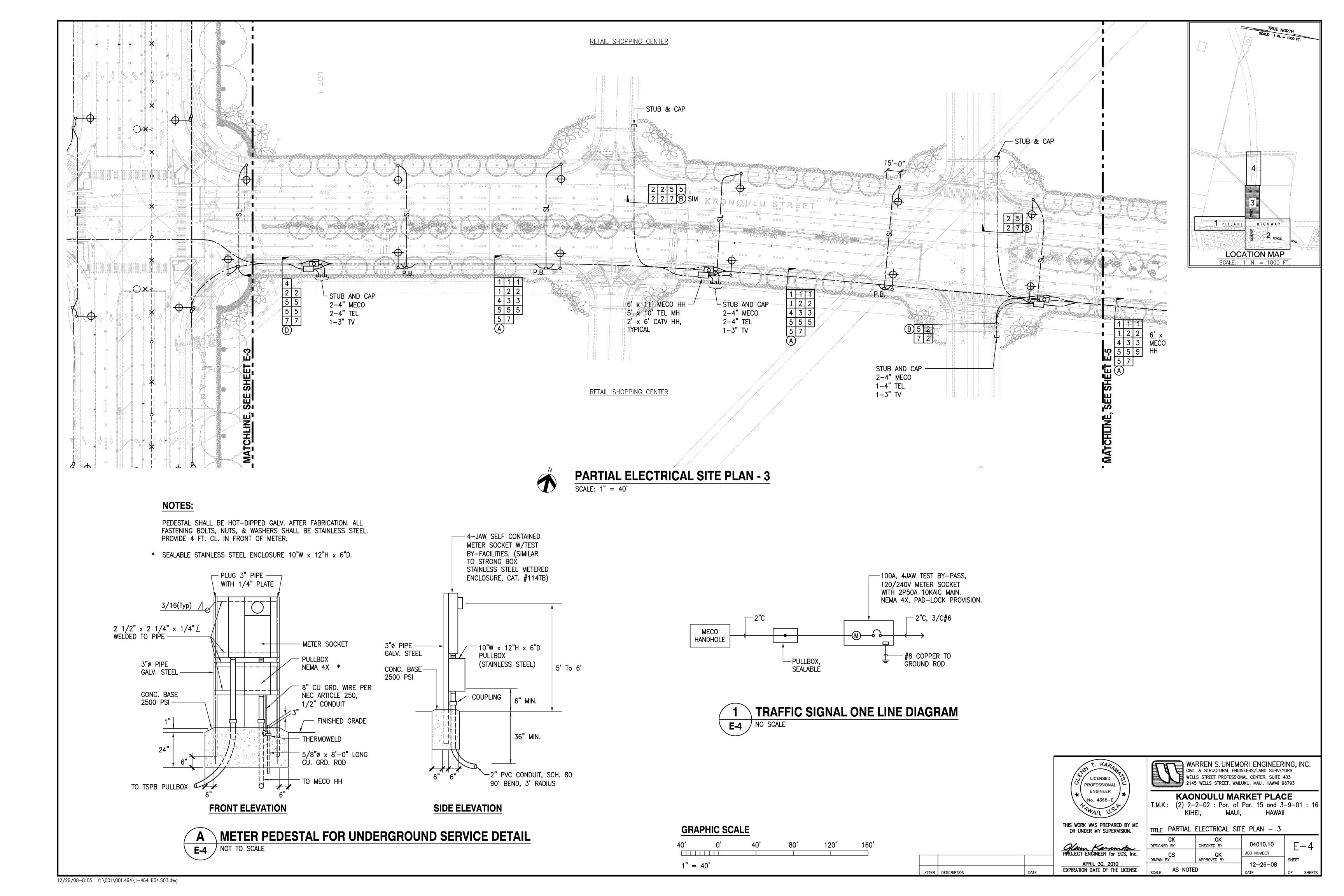
TITLE ELECTRICAL NOTES AND SYMBOLS

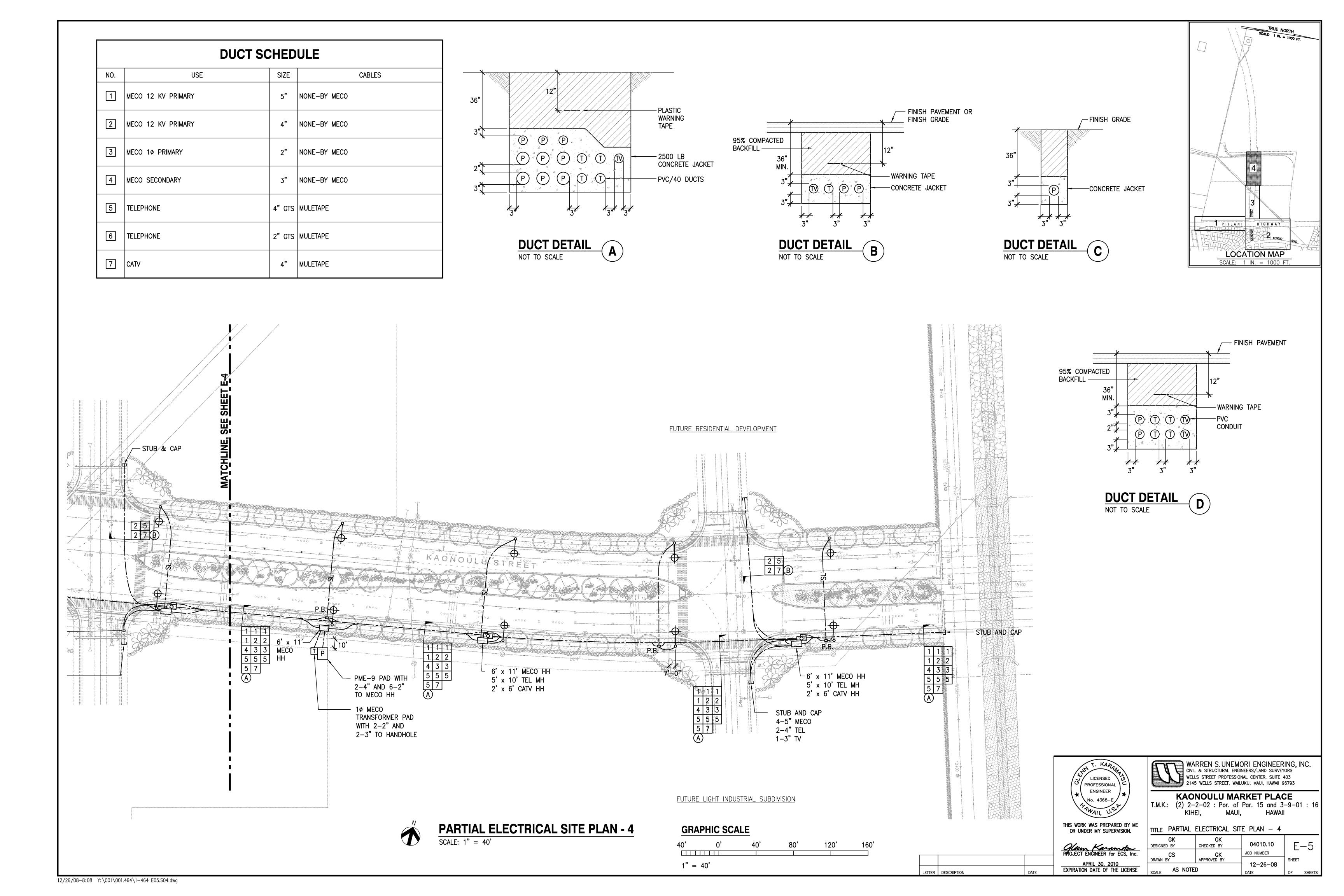
04010.10 E-1 CHECKED BY DESIGNED BY JOB NUMBER DRAWN BY APPROVED BY SCALE AS NOTED

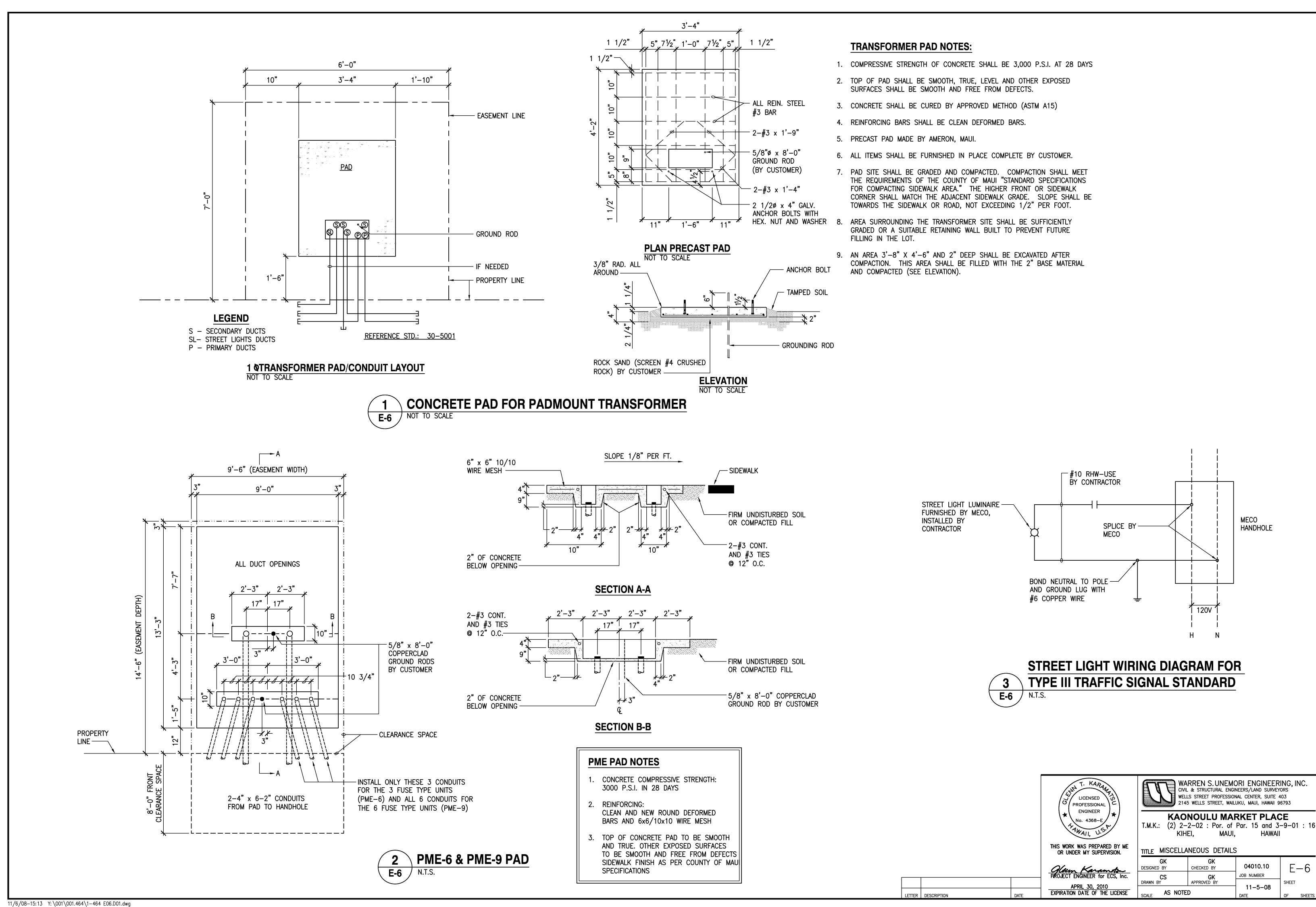
LETTER DESCRIPTION

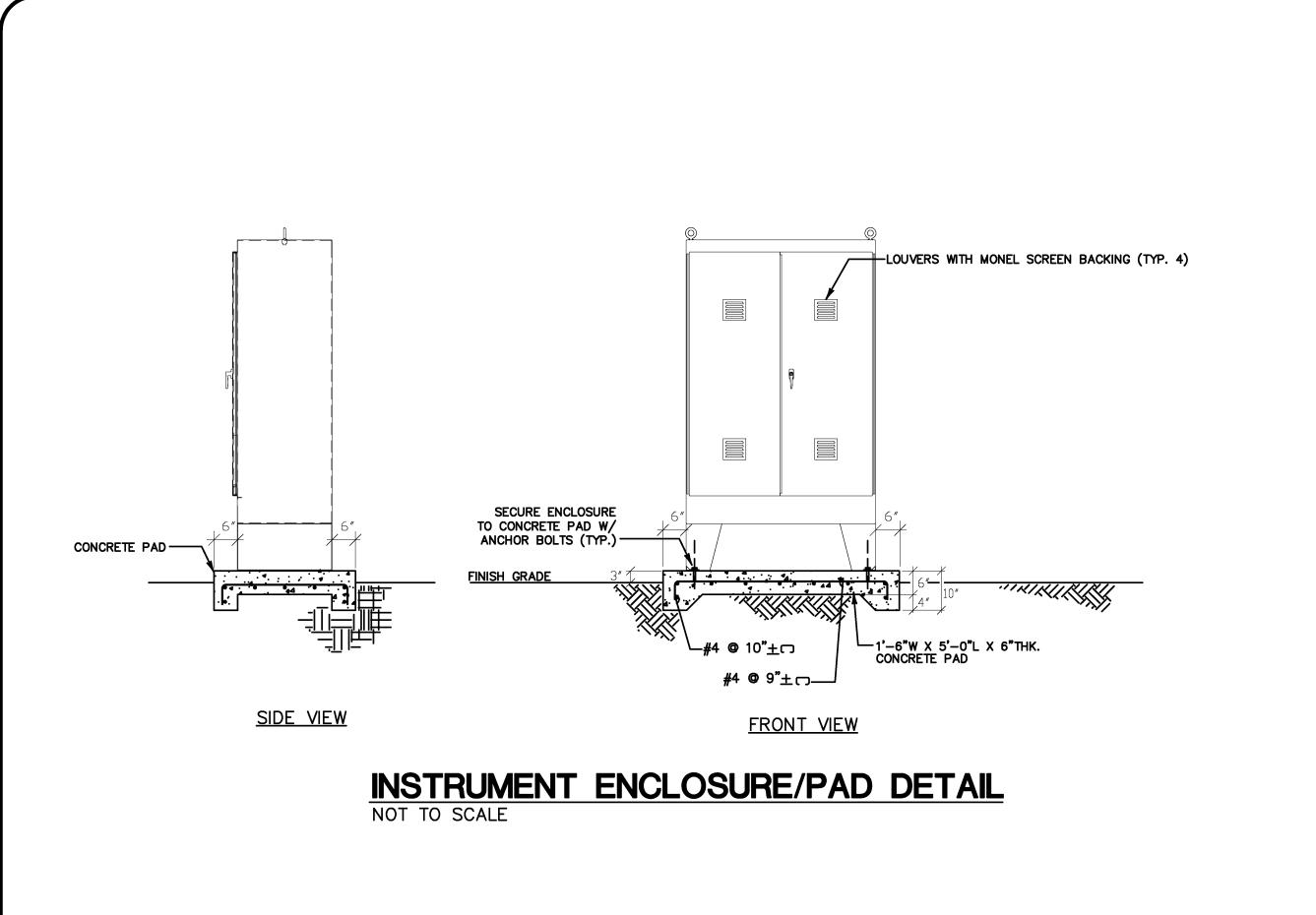


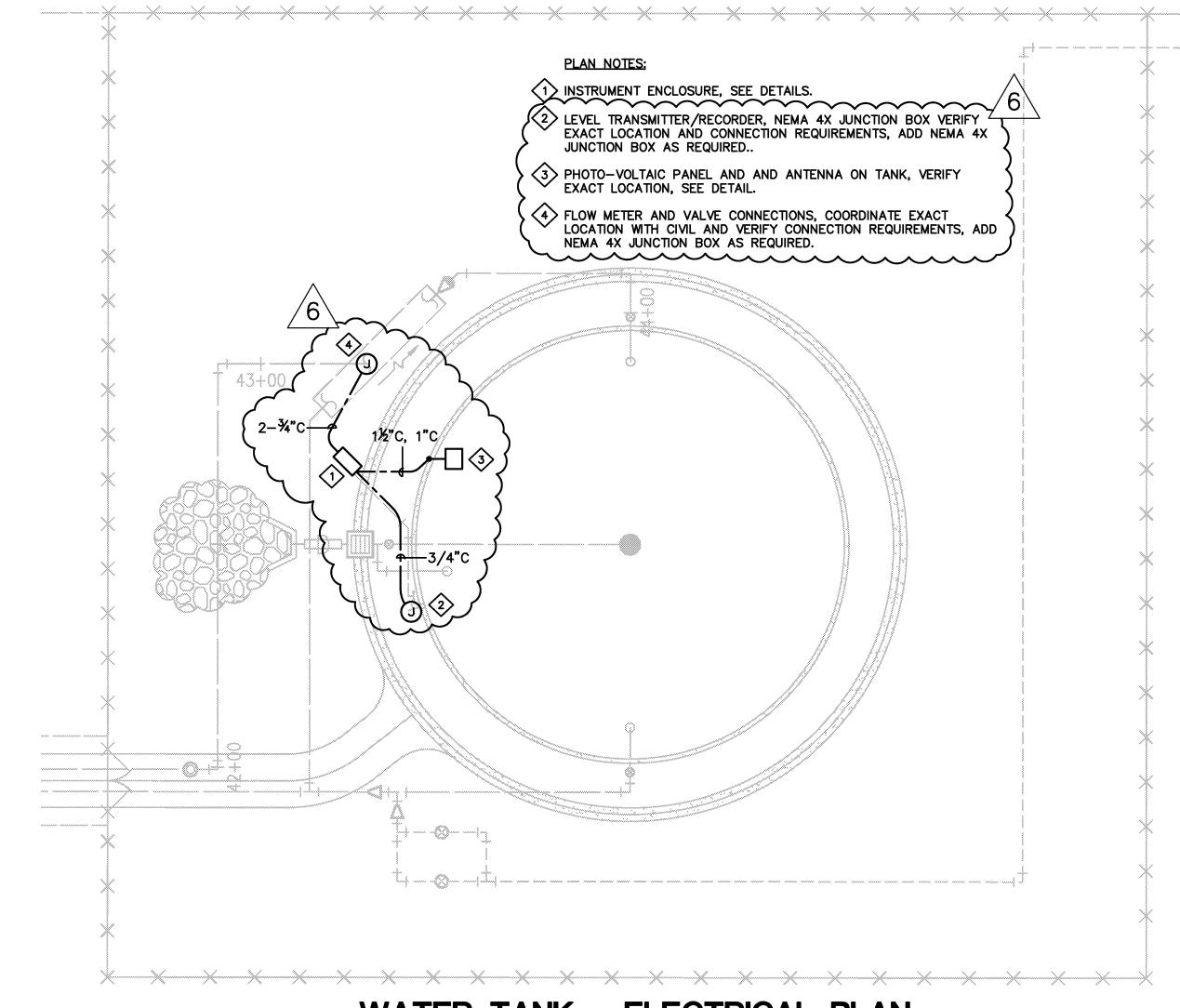








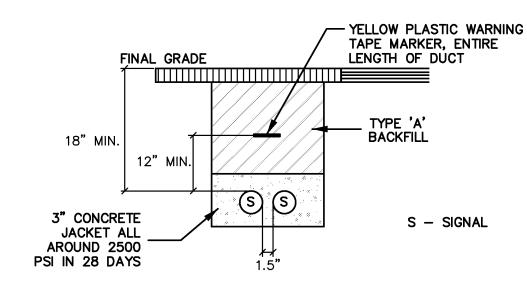




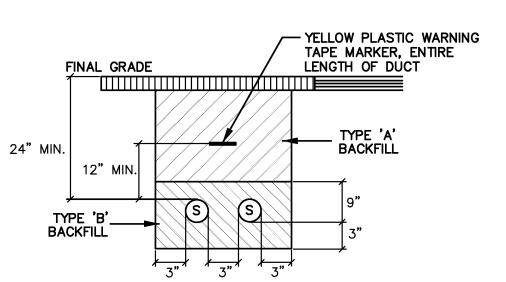
WATER TANK - ELECTRICAL PLAN SCALE: 1" = 20'-0"

TYPE "A" — BEACH SAND, EARTH, OR EARTH AND GRAVEL. IF
EARTH AND GRAVEL, THE MAXIMUM ROCK SHALL BE 1"
AND THE MIXTURE SHALL CONTAIN NOT MORE THAN
50% BY VOLUME OF ROCK PARTICLES.

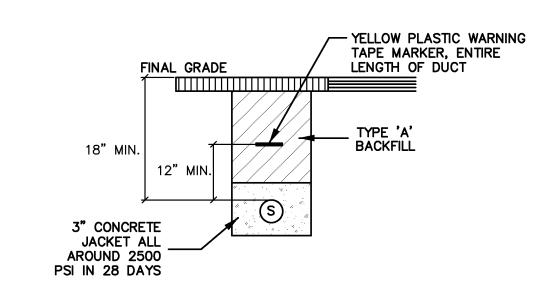
TYPE "B" - BEACH SAND, EARTH, OR EARTH AND GRAVEL. IF
EARTH AND GRAVEL, THE MIXTURE MUST PASS A 1/2"
MESH SCREEN AND CONTAIN NOT MORE THAN 20% BY
VOLUME OF ROCK PARTICLES. CORAL OR CORAL WASTE
WILL NOT BE ACCEPTABLE.



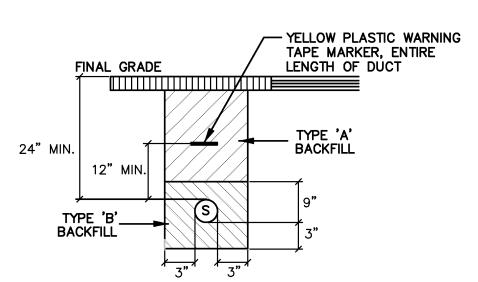
TYPICAL DUCT SECTION THRU DRIVEWAY



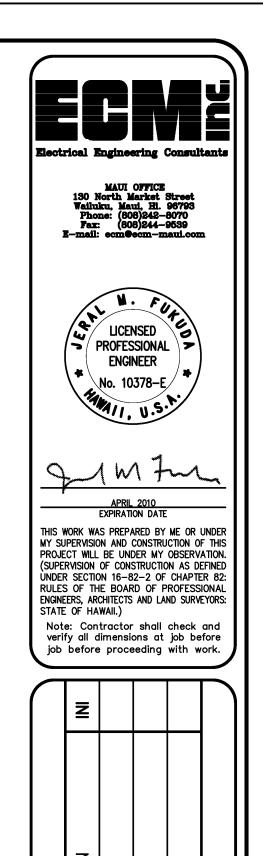
TYPICAL DUCT SECTION THRU
NON-TRAFFIC AREAS



TYPICAL DUCT SECTION THRU DRIVEWAY



TYPICAL DUCT SECTION THRU
NON-TRAFFIC AREAS



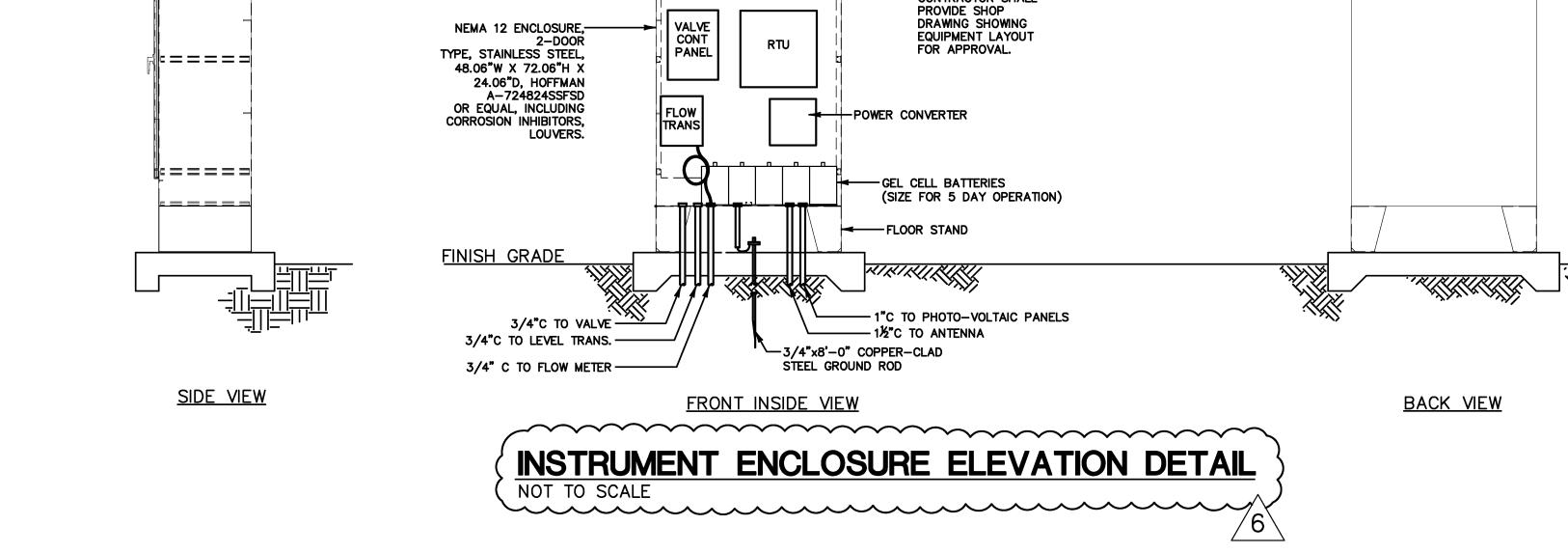
JOB NO. 28085
DATE: 2/09
DRAWN BY: RMB
DESIGNED BY: JMF
CHECKED BY: JMF

KAONOULU MARKET PLACE
WATER TANK
TMK: (2) 2-2-02: POR. OF 15 & 3-9-01:16

SHEET NO.

EM-1

1 OF 2 SHEETS



NOTE:

CONTRACTOR SHALL

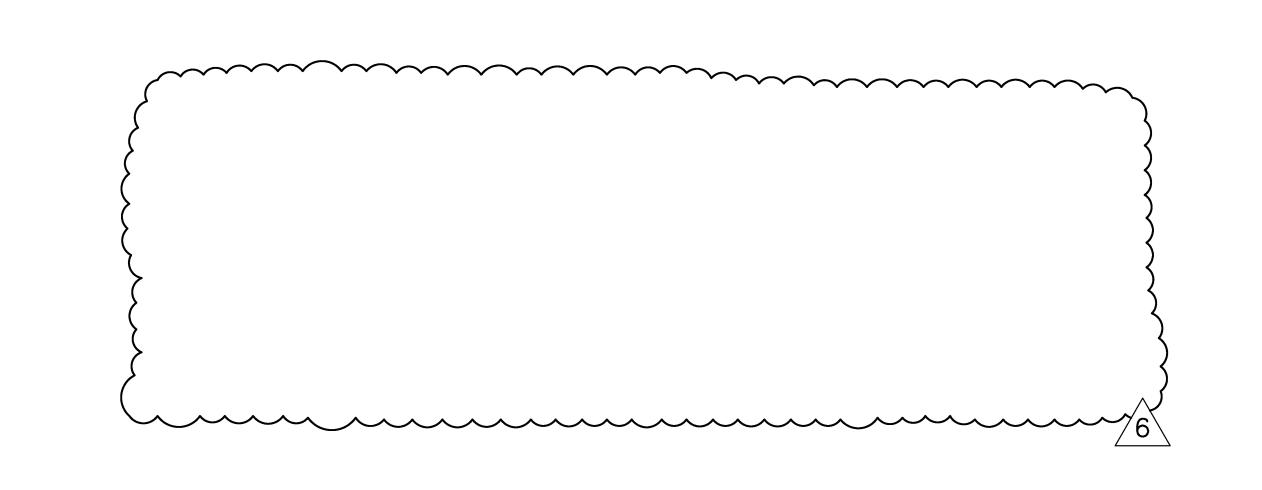
INTERPOSING RELAY

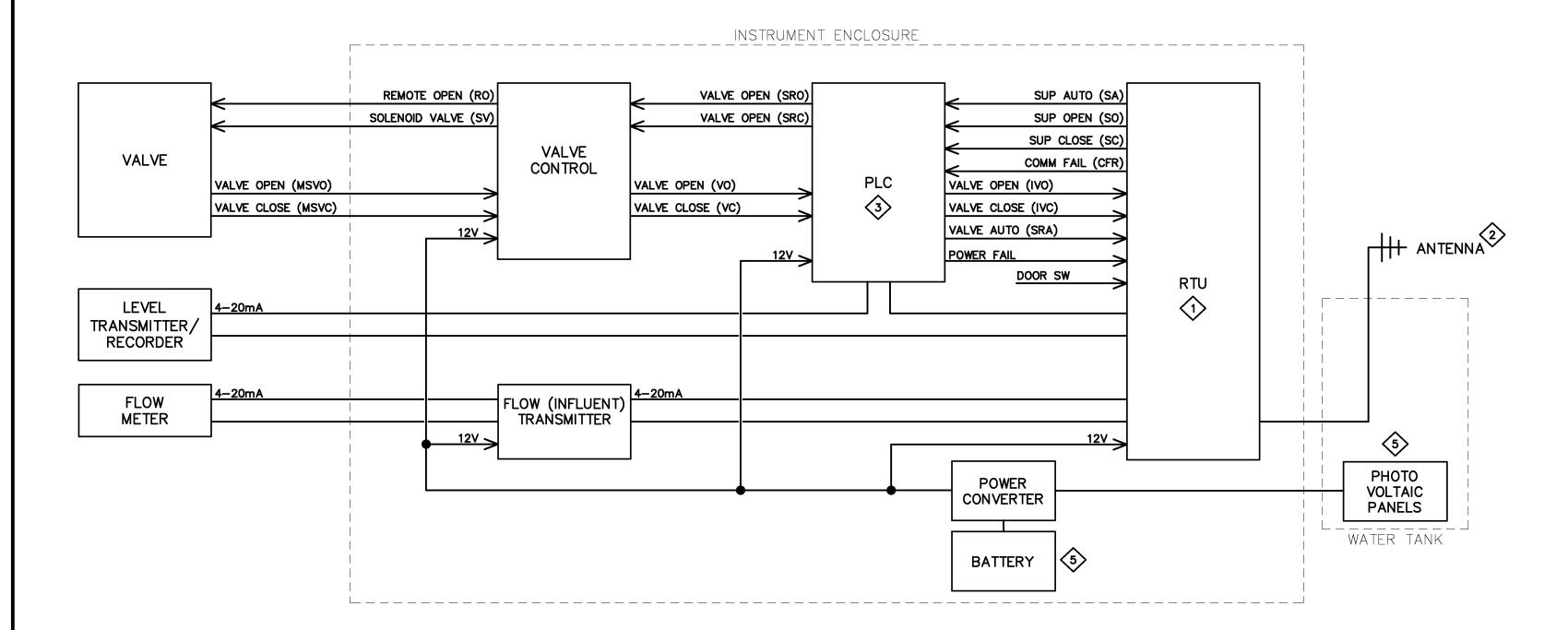
PANEL-

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[=====

28085-E1





LEGEND AND SYMBOLS:

VALVE
MSVO - MICRO SWITCH VALVE OPEN
MSVC - MICRO SWITCH VALVE CLOSE

VALVE CONTROL VO - VALVE OPEN (VALVE POSITION INDICATOR) VC - VALVE CLOSE (VALVE POSITION INDICATOR)

RO - REMOTE OPEN (VALVE CONTROL) SV - SOLENOID VALVE (VALVE CONTROL)

CONTROL

PLC/RTU
IVO - SUPERVISORY INTERPOSING RELAY-VALVE OPEN
IVC - SUPERVISORY INTERPOSING RELAY-VALVE CLOSE SRA - SUPERVISORY INTERPOSING RELAY-AUTOMATIC

SRO - SUPERVISORY INTERPOSING RELAY-VALVE OPEN SRC - SUPERVISORY INTERPOSING RELAY-VALVE CLOSE

CF - COMMUNICATION/CONTROL RELAY DELAY ON CFA - COMMUNICATION/CONTROL FAILURE AUX RELAY

SO - SUPERVISORY OPEN (RTU)

SC - SUPERVISORY CLOSE (RTU) SA - SUPERVISORY AUTO (RTU)

CFR - COMMUNICATION FAIL RESET (RTU) RL - RESERVOIR LEVEL RELAY

GREEN INDICATOR LIGHT RED INDICATOR LIGHT

WHITE INDICATOR LIGHT

MOTES: (1) RTU/SCADA SYSTEM TO BE KING FISHER OR APPROVED EQUAL (#91100 RTU AND C410 I/O-3 MODULE ASSEMBLY). VERIFY FREQUENCY OF RADIO TO MATCH WATER DEPARTMENT FREQUENCY. SUPPLIER FOR KING FISHER EQUIPMENT IS ATSI

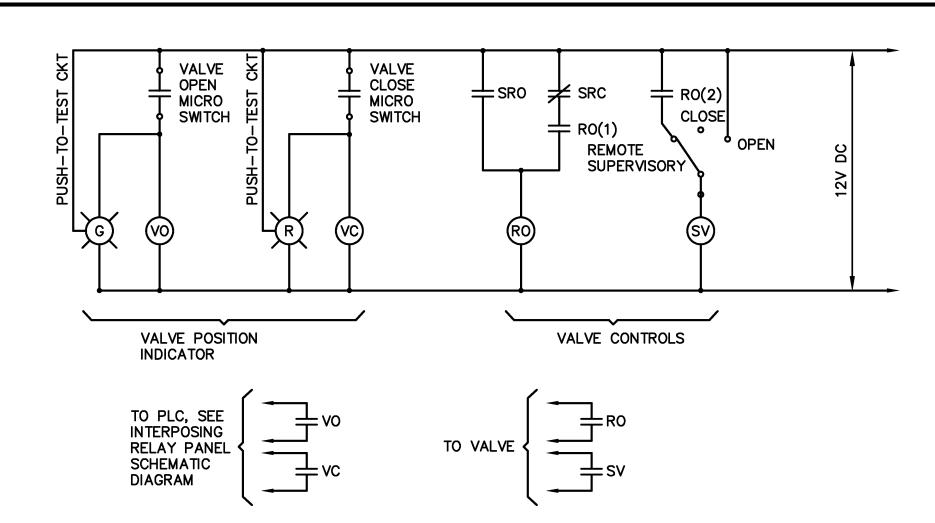
(1-800-468-4230). MODULE CONFIGURATION TO BE CONSISTENT 2 ANTENNA SHALL BE MOUNTED WITH THE DIRECTION ADJUSTED TO FACILITATE COMMUNICATION WITH THE NASKA MTU (BASEYARD RTU). SUPPORT THE ANTENNA AND MOUNTING BRACKET AS REQUIRED TO MEET WIND LOADING. EXACT LOCATION OF

ANTENNA TO BE FIELD LOCATED AFTER CONTRACTOR HAS A SIGNAL STRENGTH TEST TO VERIFY THE RTU WILL BE ABLE TO COMMUNICATE WITH THE BASEYARD. ANTENNA AND HARDWARE TO COMPLY WITH FCC, GROUNDED AS REQUIRED.

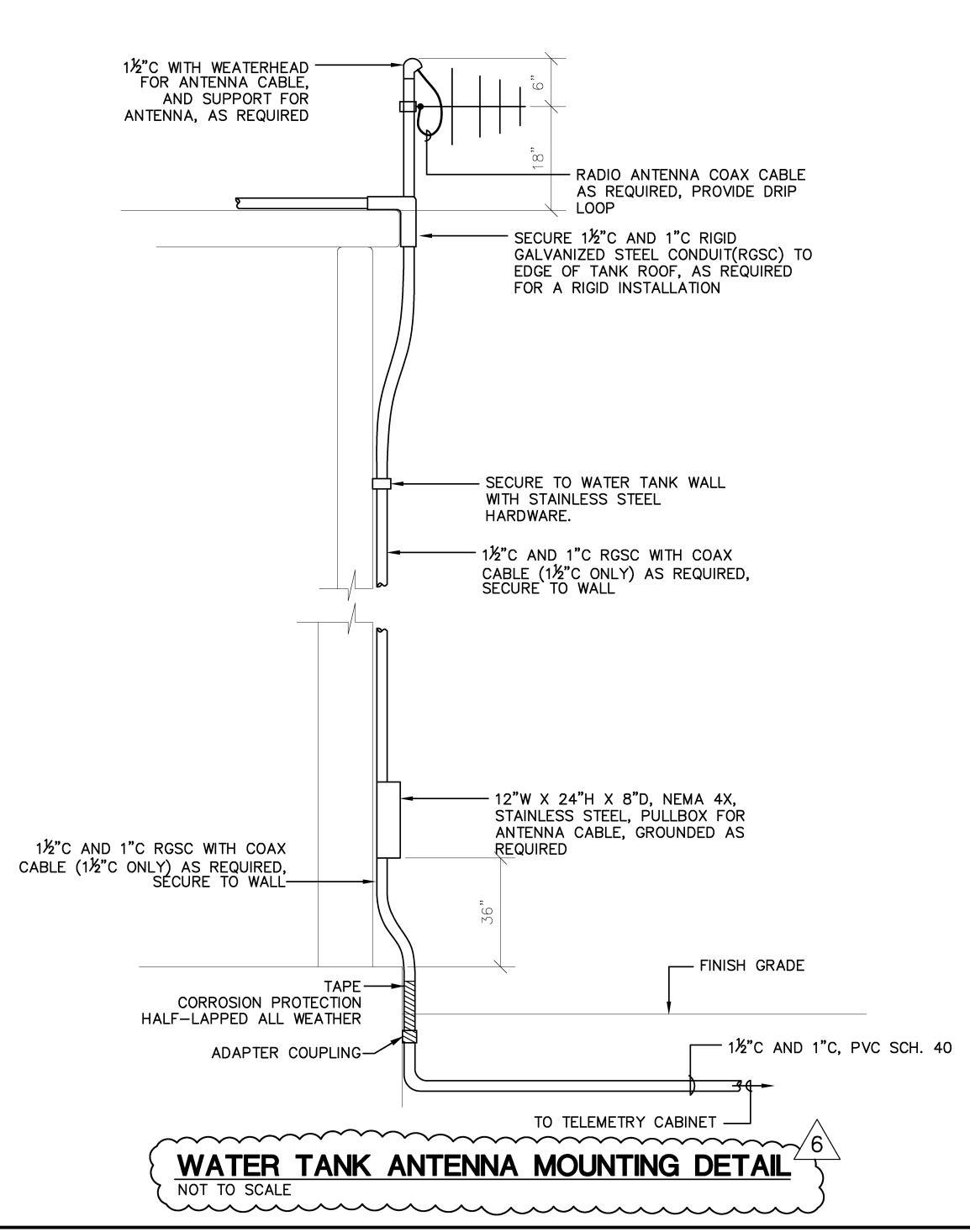
3 RTU TO COMMUNICATE WITH PLC VIA MODBUS CONNECTION.

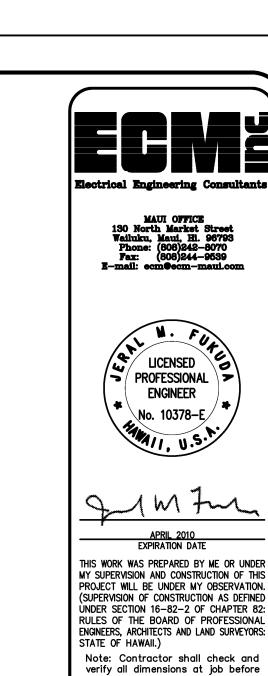
4 ALL RTU/SCADA PROGRAMMING TO BE DONE BY WATER DEPARTMENT PERSONNEL. CONTRACTOR TO PROVIDE ACCESS OF RTU TO WATER DEPARTMENT PERSONNEL FOR PROGRAMMING.

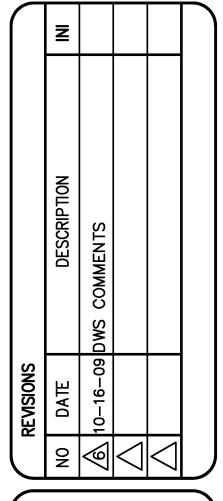
5 CONTRACTOR TO DESIGN PHOTO-VOLTAIC BATTERY SYSTEM FOR 5-DAY OPERATION, PROVIDE ALL REQUIRED COMPONENTS AND ACCESSORIES FOR A COMPLETE 12V SYSTEM, PANELS MOUNTED AND SUPPORTED AS REQUIRED TO MEET WIND LOADING.



VALVE CONTROL SCHEMATIC DIAGRAM







job before proceeding with work.

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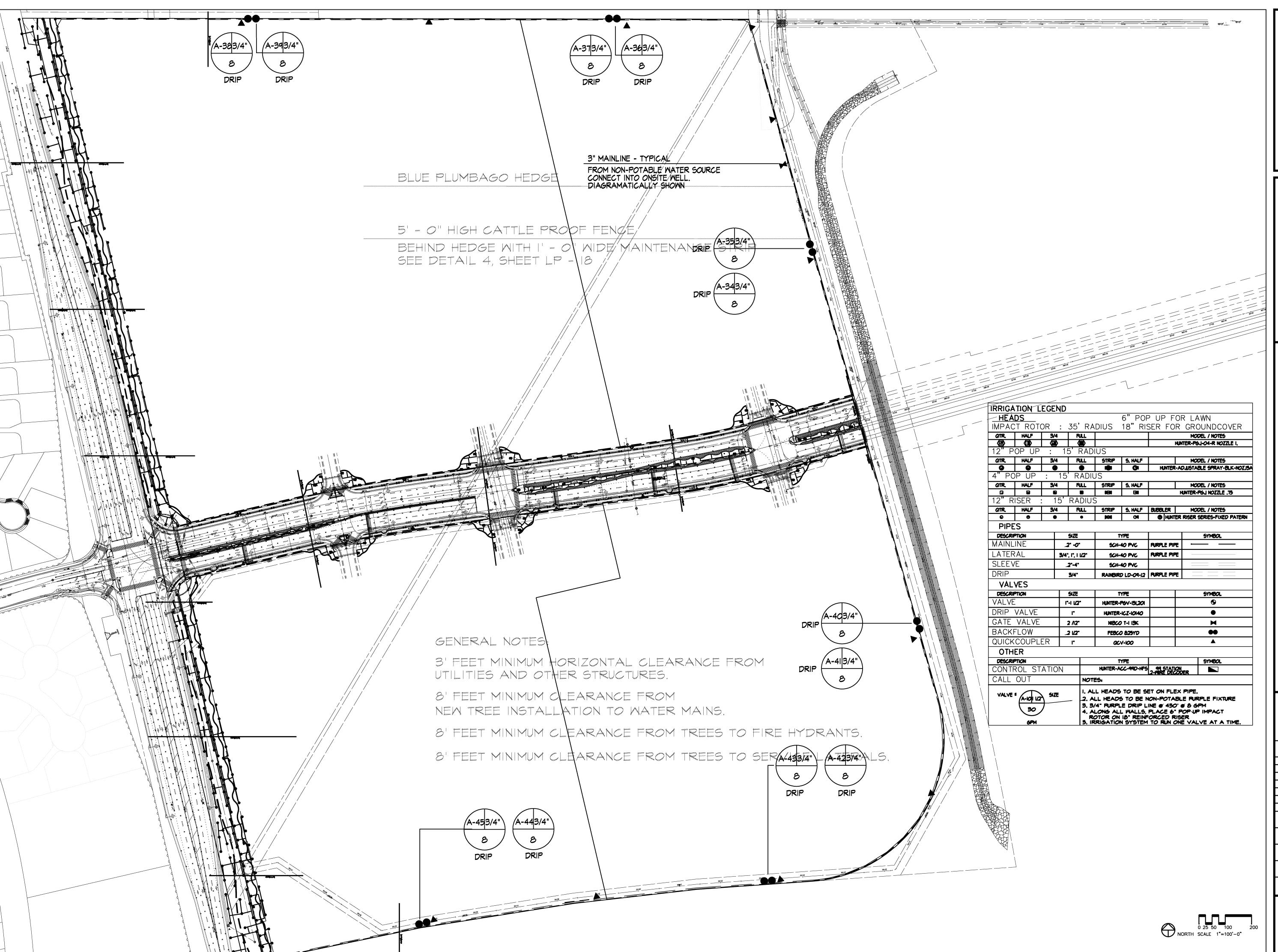
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Sheet Title Landscape Irrigation Plan Sheet Layout

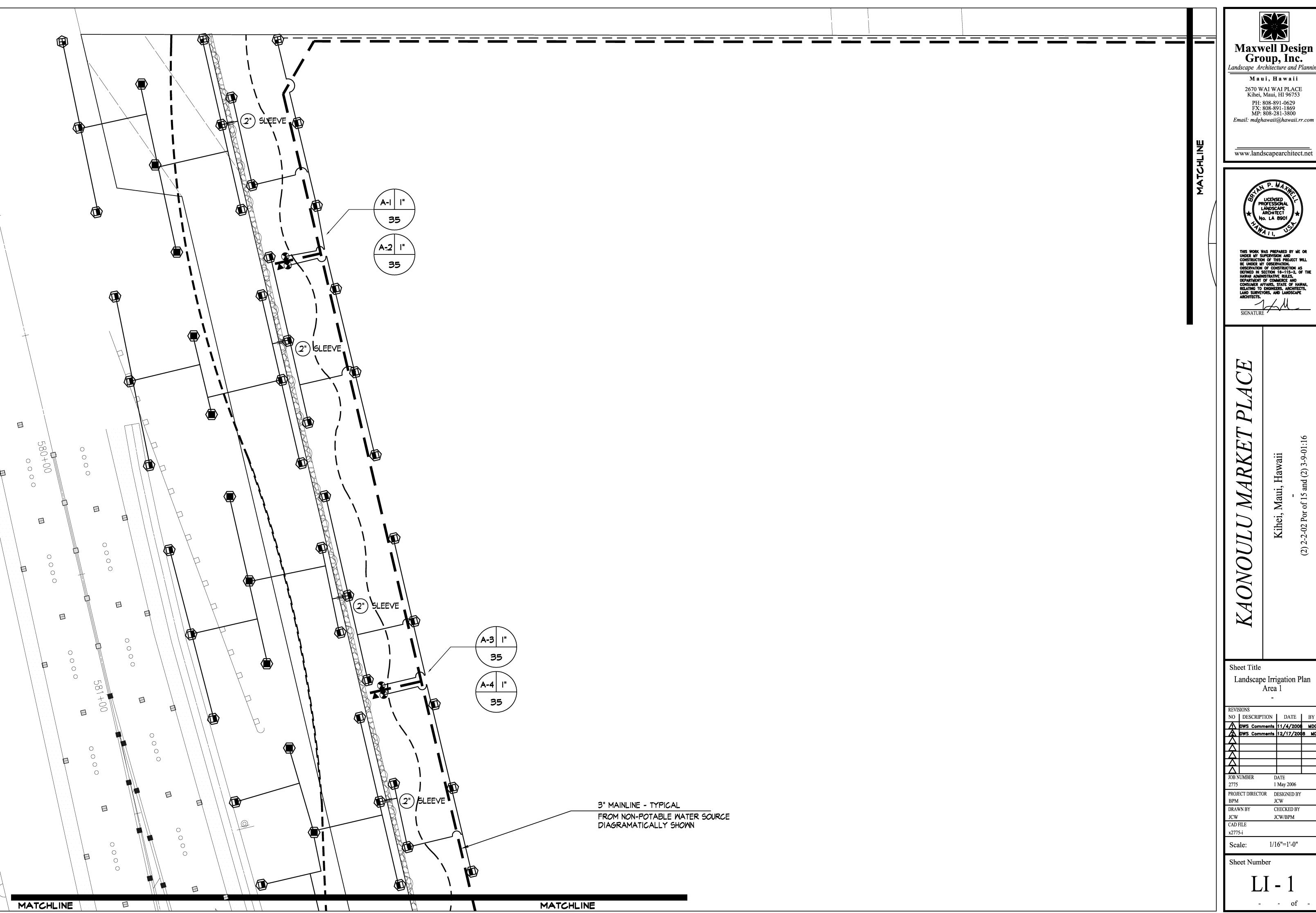
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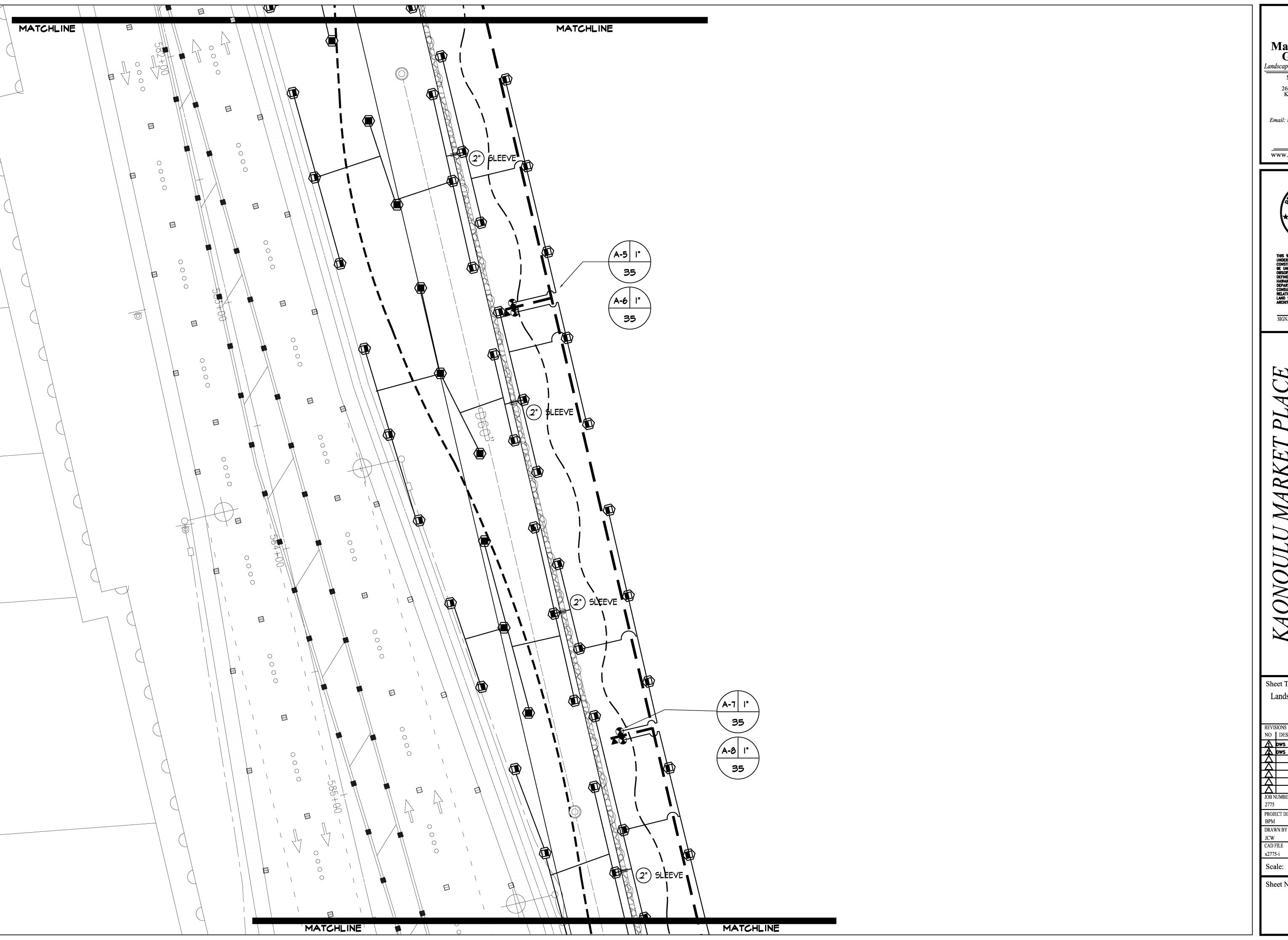
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Landscape Irrigation Plan Area 1

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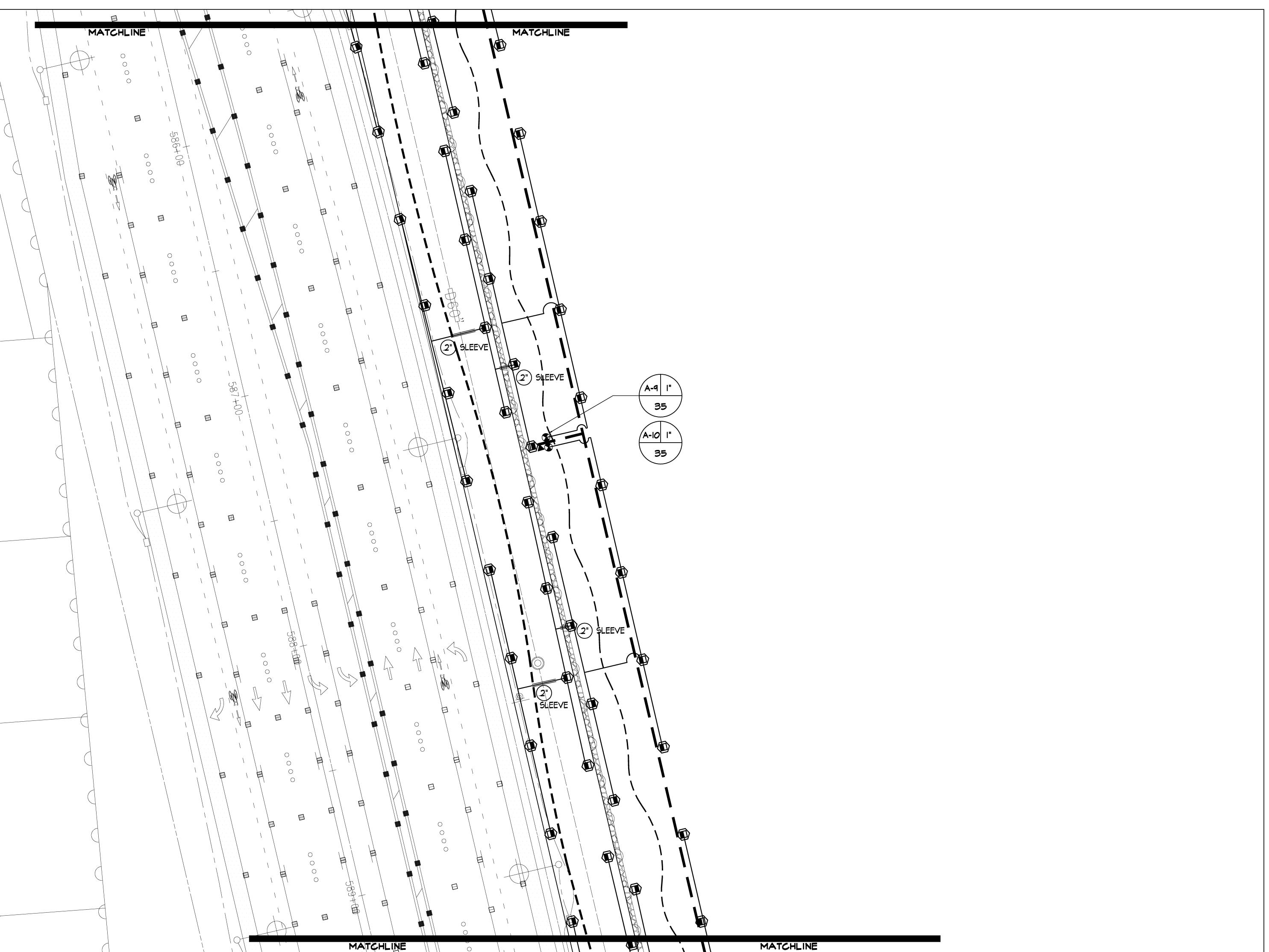
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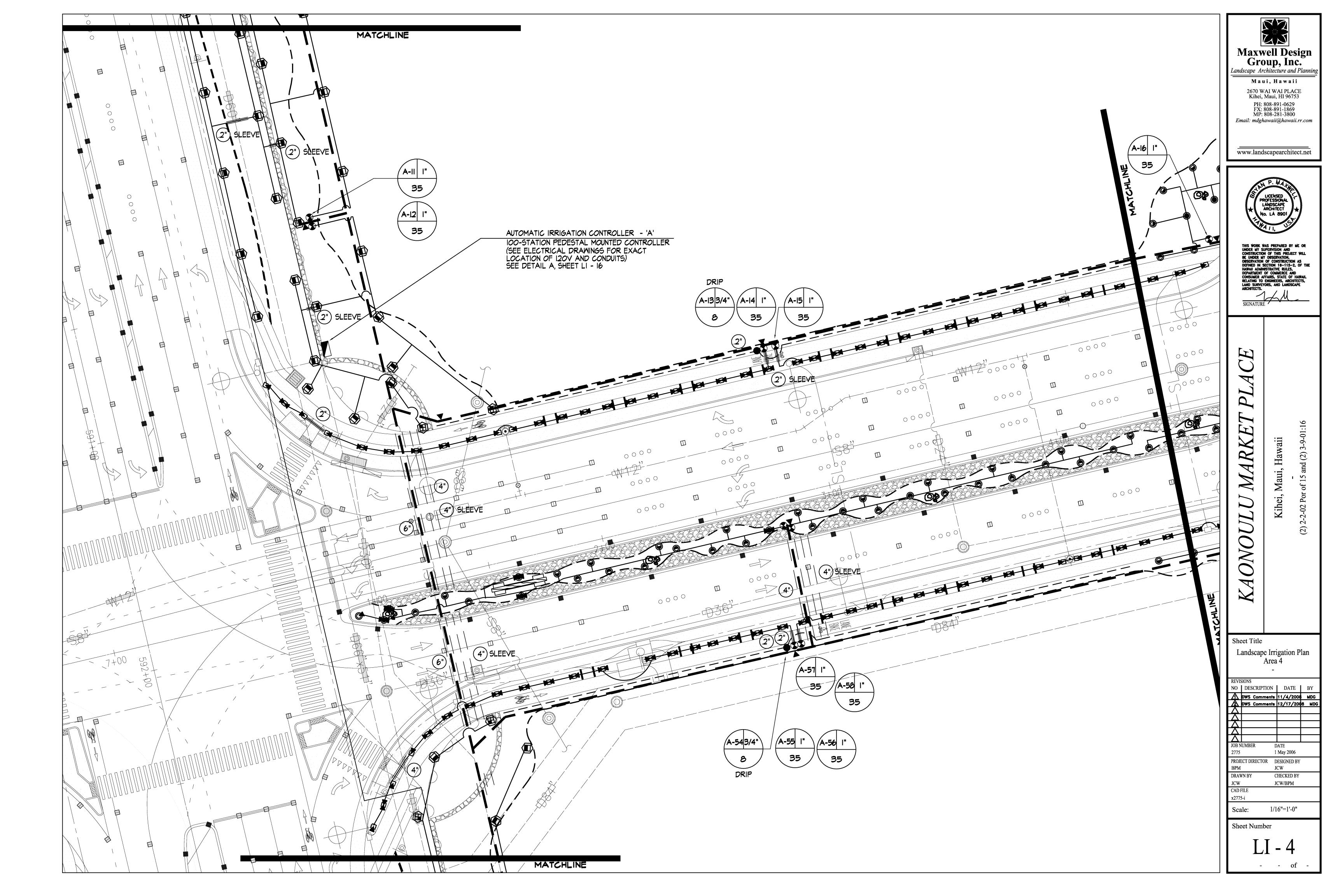
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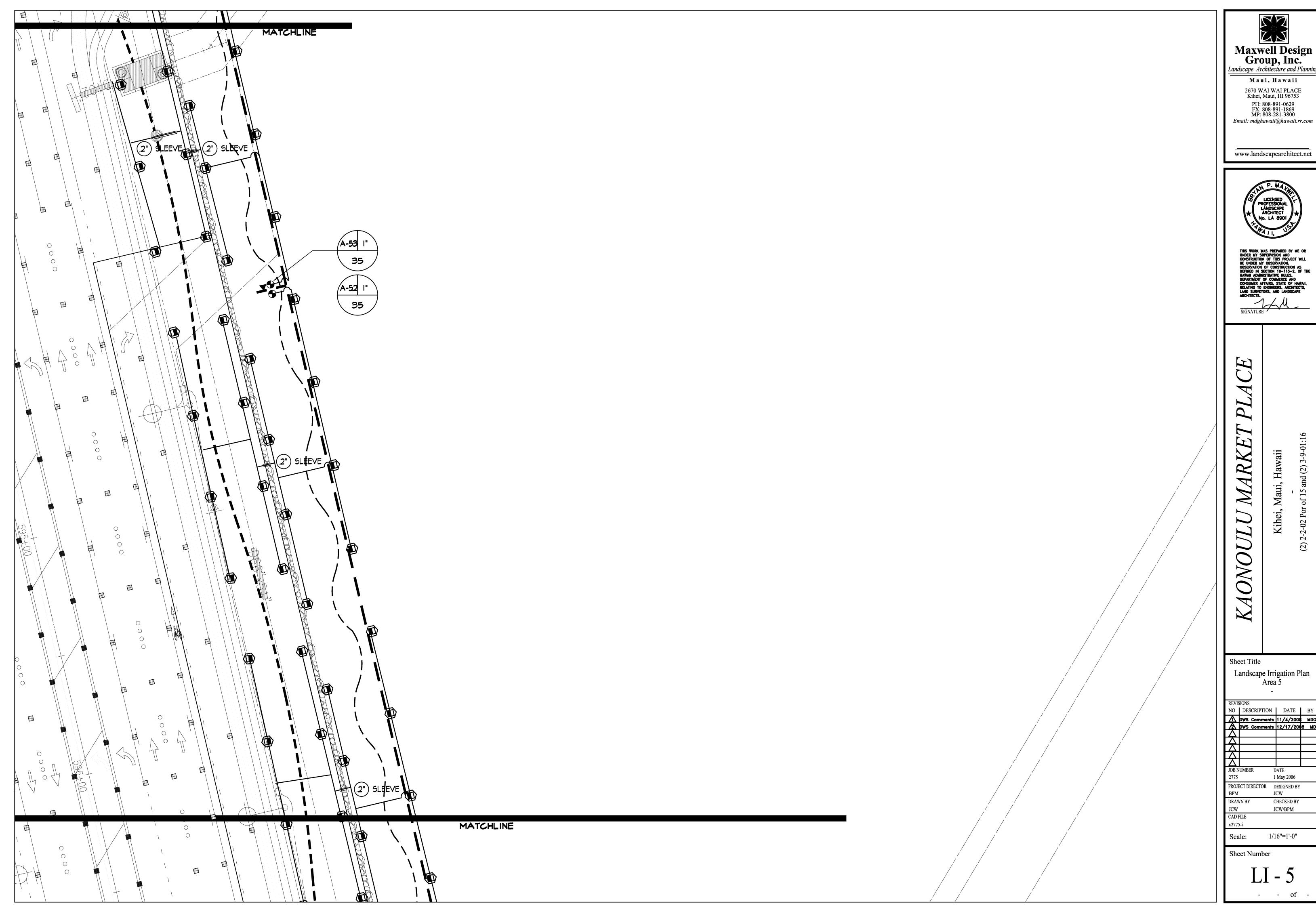
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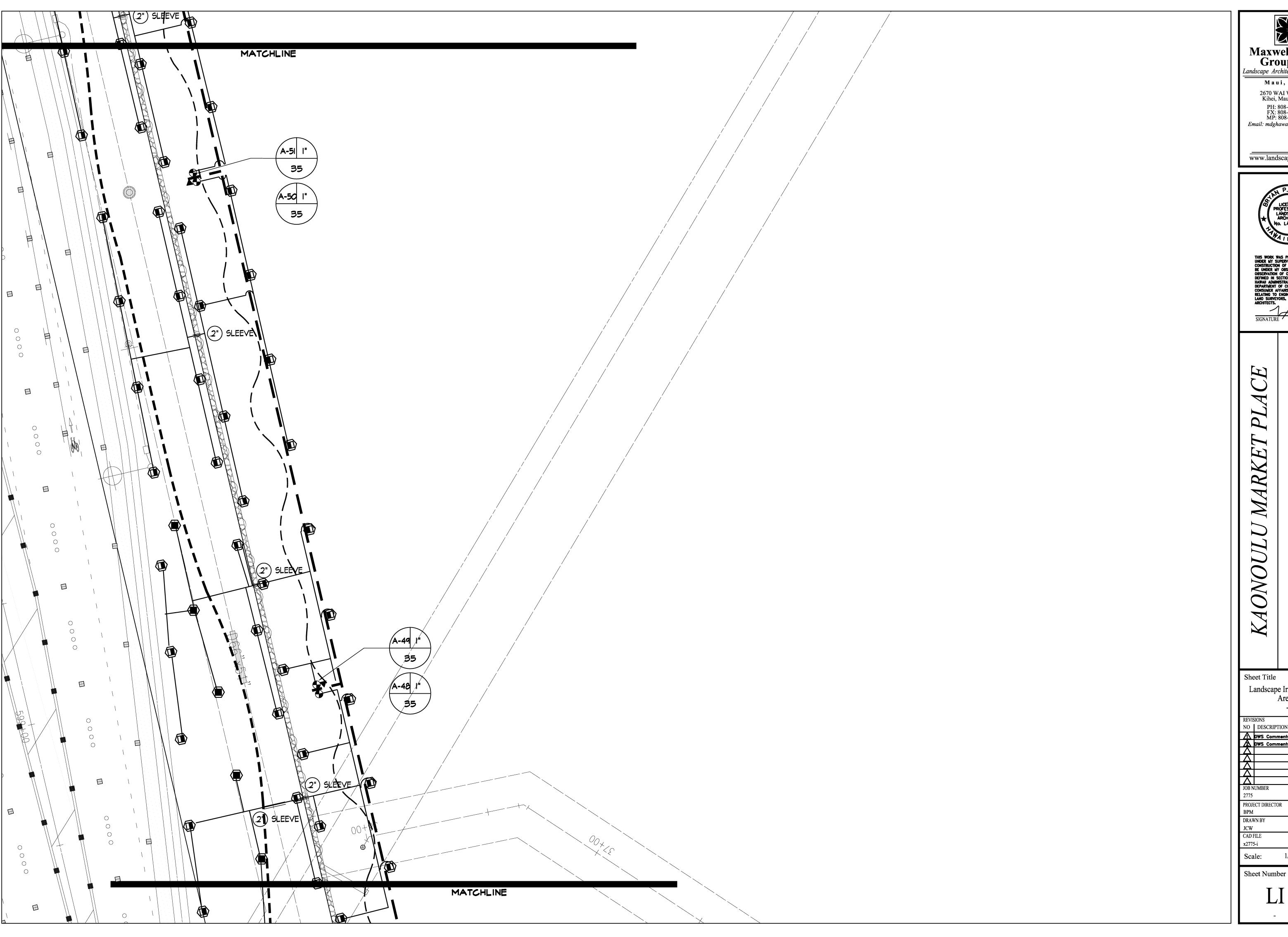
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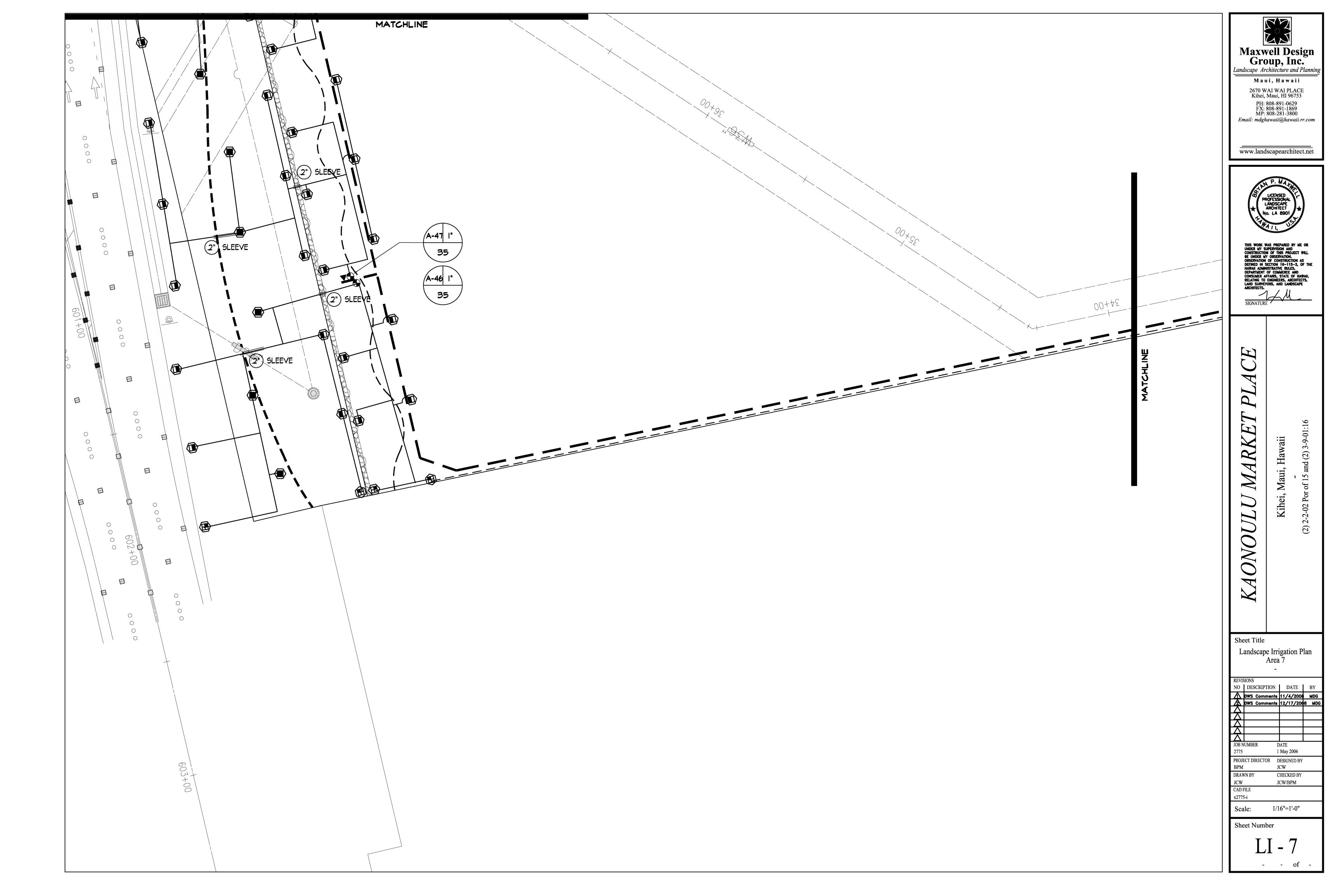
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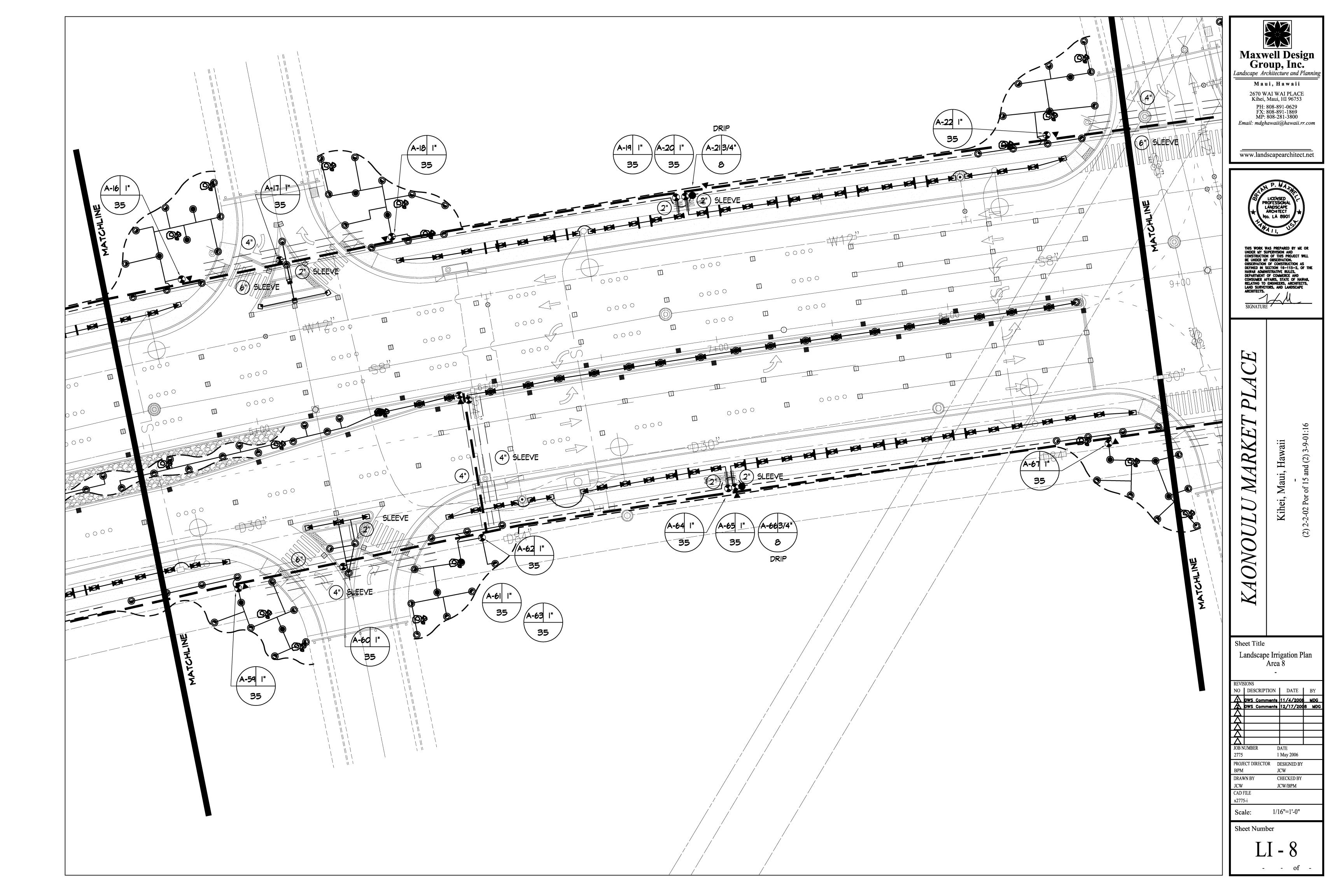
Landscape Irrigation Plan Area 6

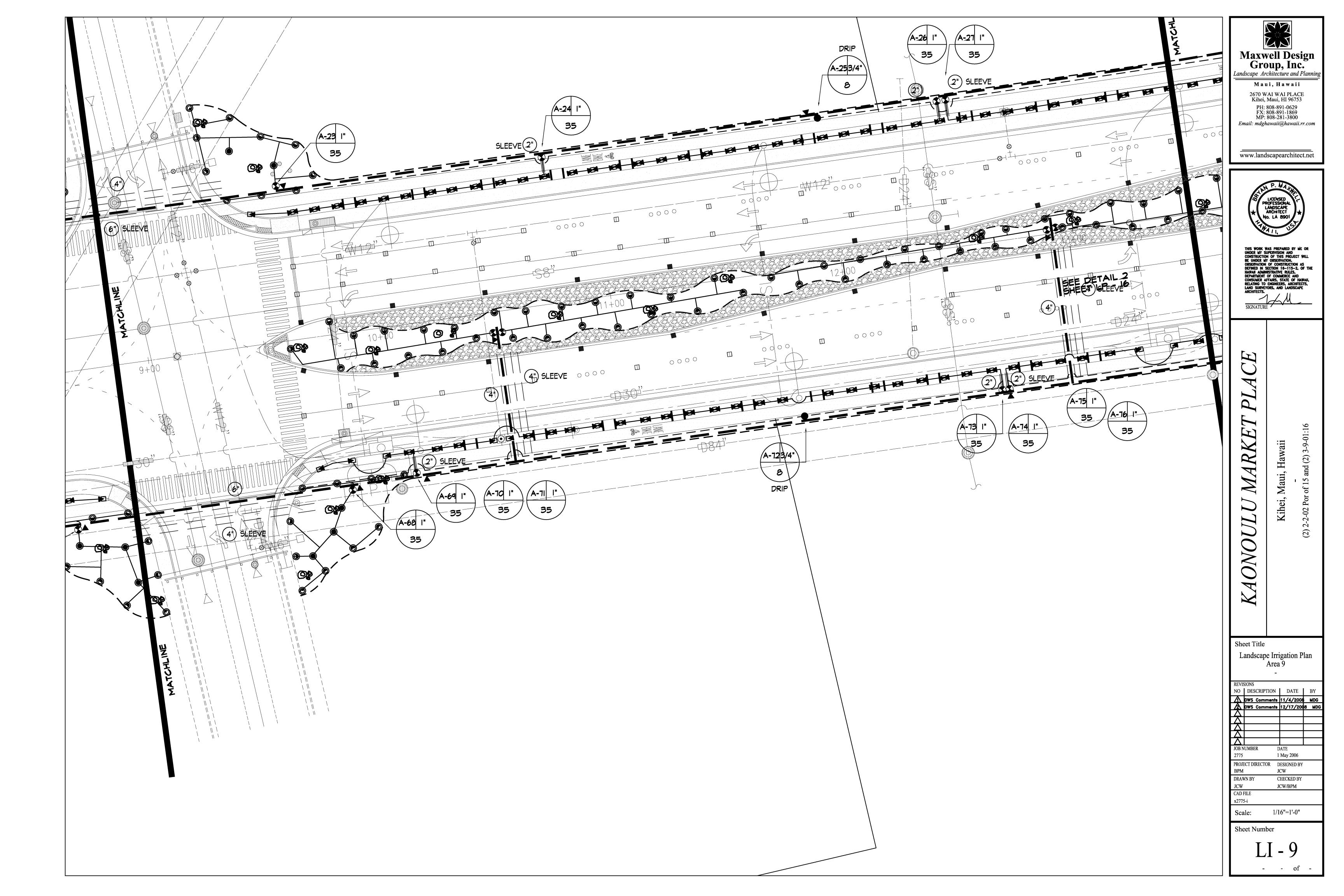
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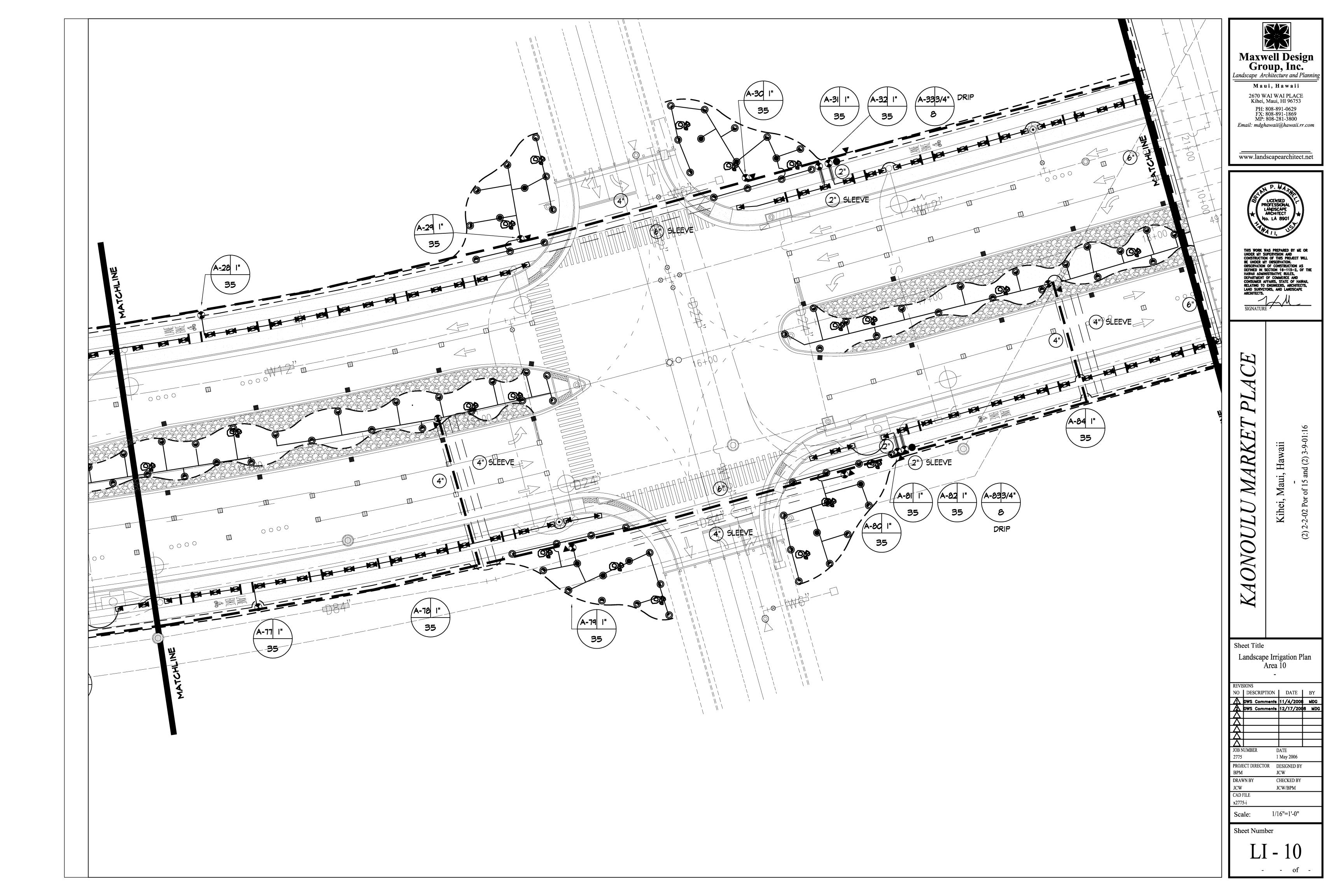
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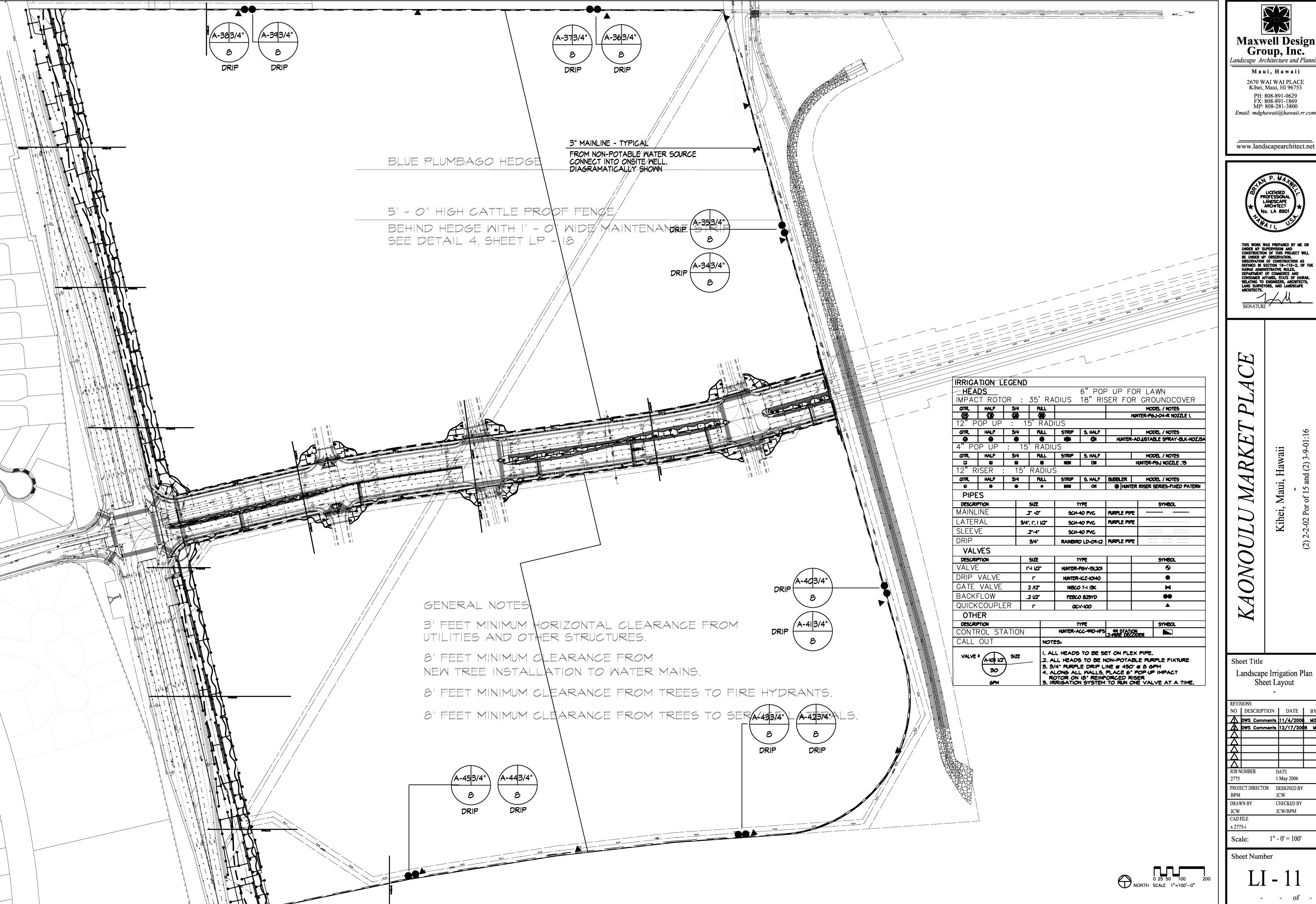
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Landscape Irrigation Plan Sheet Layout

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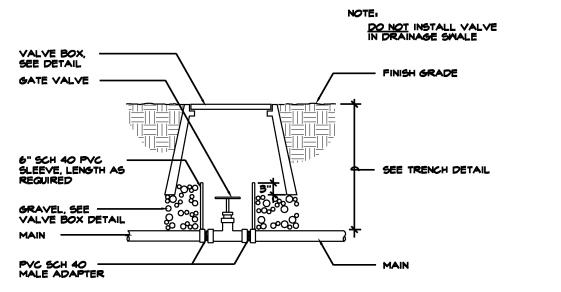
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1'' - 0' = 100'

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IRRIGATION NOTES

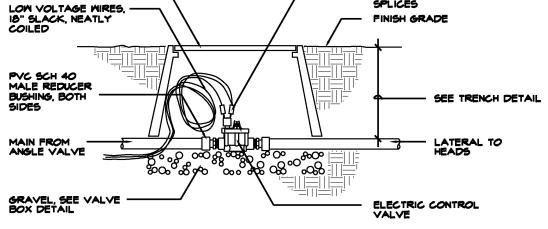
- I. THIS PLAN IS DIAGRAMATIC. IRRIGATION SYSTEM IS SUBJECT TO FIELD ADJUSTMENTS DUE TO UNANTICIPATED SITE CONDITIONS. LOCATE ALL MAINLINES, LATERALS. VALVES AND SPRINKLER HEADS WITHIN PLANTING AREAS, UNLESS OTHERWISE NOTED. PLACE MAINLINE IN PLANTING AREAS WHERE NO SLEEVES ARE SHOWN. AVOID ANY CONFLICT BETWEEN UNDERGROUND UTILITIES, STRUCTURES AND PLANTINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES. BURY ALL IRRIGATION LINES UNDER PAVING 24" DEEP. IN PLANTING AREAS BURY PRESSURE MAINLINES 18" AND LATERAL LINES 10" DEEP.
- 2. THIS IRRIGATION SYSTEM WAS DESIGNED WITH A MINIMUM STATIC WATER PRESSURE OF 30 PSI AT THE POINT OF CONNECTION. NOTIFY THE PROJECT ENGINEER, IF WATER PRESSURE IS LESS THAN 30 PSI OR GREATER THAN 100PSI.
- 3.CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND OBSERVE ALL LOCAL CODES AND REGULATIONS. THE CONTRACTOR SHALL CONFIRM ALL SITE DIMENSIONS AND CONDITIONS, AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- 4. CONTRACTOR IS TO COORDINATE THE INSTALLATION OF ALL SLEEVES, CONDUITS, MAINLINES AND LATERALS UNDER PAVEMENT AND TROUGH WALLS. CONTRACTOR SHALL ASSURE THAT THESE ITEMS ARE LAID PRIOR TO PLACEMENT OF PAVEMENT OR WALL STRUCTURES.
- 5. CONTRACTOR SHALL INSTALL IRRIGATION LINES, WIRES, VALVES AND HEADS PER SPECIFICATIONS. EXISTING GATE VALVES, POINT OF CONNECTION, ETC. ARE DERIVED FROM THE BEST AVAILABLE INFORMATION AND ON SITE INSPECTIONS. THE CONTRACTOR SHALL VERIFY THOSE POINTS OF CONNECTION NOTED AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- 6. LOCATE AND INSTALL ALL SPRINKLER HEADS 6" FROM SIDEWALKS, CURBS, DRIVEWAYS, BUILDINGS AND WALLS UNLESS NOTED OTHERWISE. FLEX TUBING SHALL BE INSTALLED ON ALL SPRINKLER HEADS ALONG SIDEWALKS, DRIVEWAYS AND PARKING SPACES. ADJUST ALL SPRINKLER HEADS AND FLOW CONTROL FOR MAXIMUM COVERAGE AND MINIMUM OVERTHROW AND MISTING. OPERATE ONLY ONE VALVE AT A TIME PER CONTROLLER.



GATE VALVE (3" AND SMALLER) NOT TO SCALE

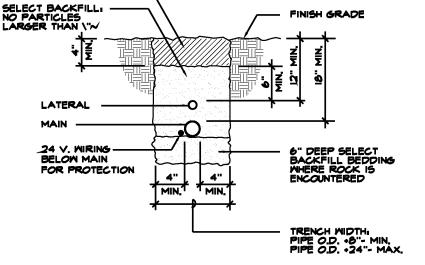
VALVE BOX, SEE DETAIL

I VALVE PER VALVE BOX UNLESS OTHERMISE NOTED <u>DO NOT</u> INSTALL VALVE IN DRAINAGE SMALE SPLICES

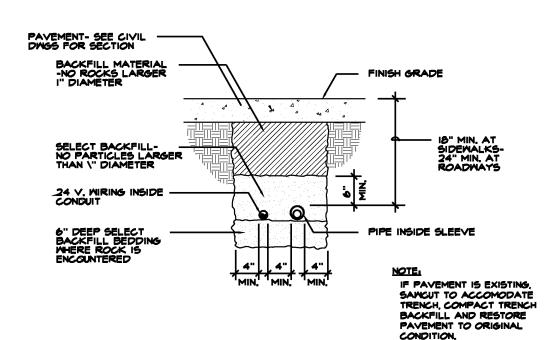


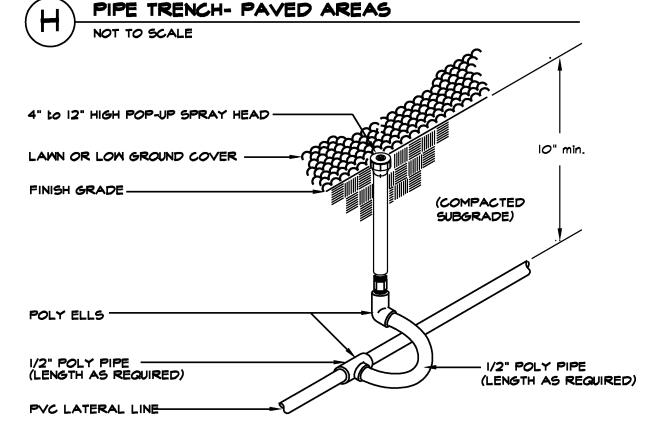
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CONTROL VALVE

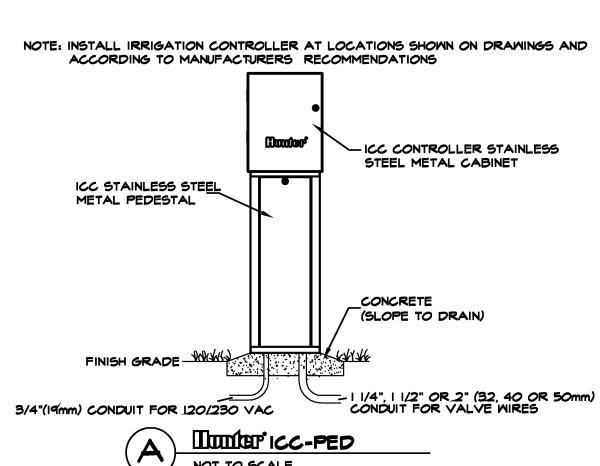


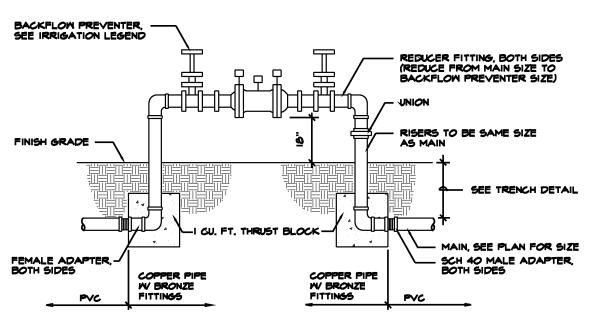
PIPE TRENCH- PLANTING AREAS



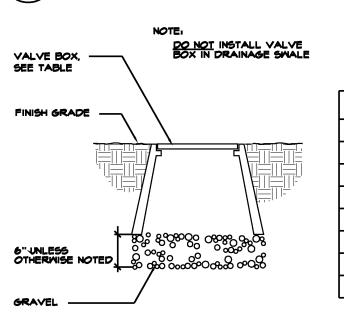


LAWN OR HIGH POP-UP SPRAY DETAIL NOT TO SCALE





BACKFLOW PREVENTER (2" & SMALLER)

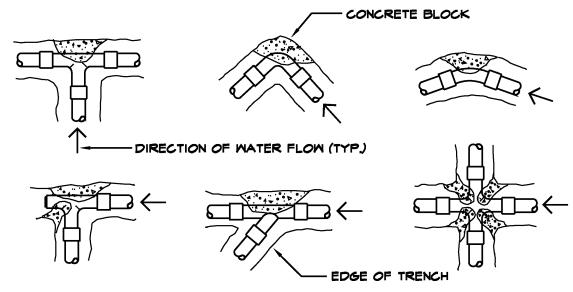


VALVE BOX CONTENTS	· VALVE BOX MODEL NO. (OR APPROVED EGUAL)
GATE VALVE	'CARSON' 910-12
ANGLE VALVE	'CARSON' 910-12
CONTROL VALVE	'CARSON' 1419-13
QUICK COUPLER	'CARSON' 608-12
MISC. VALVES	'CARSON' 1419-13
irrigation mires	'CARSON' 1324-15-3PL
COM. CABLE	'CARSON' 1324-15-3PL
FLOOD BUBBLER	'CARSON' 610-6

VALVE BOX TABLE

VALVE BOX NOT TO SCALE

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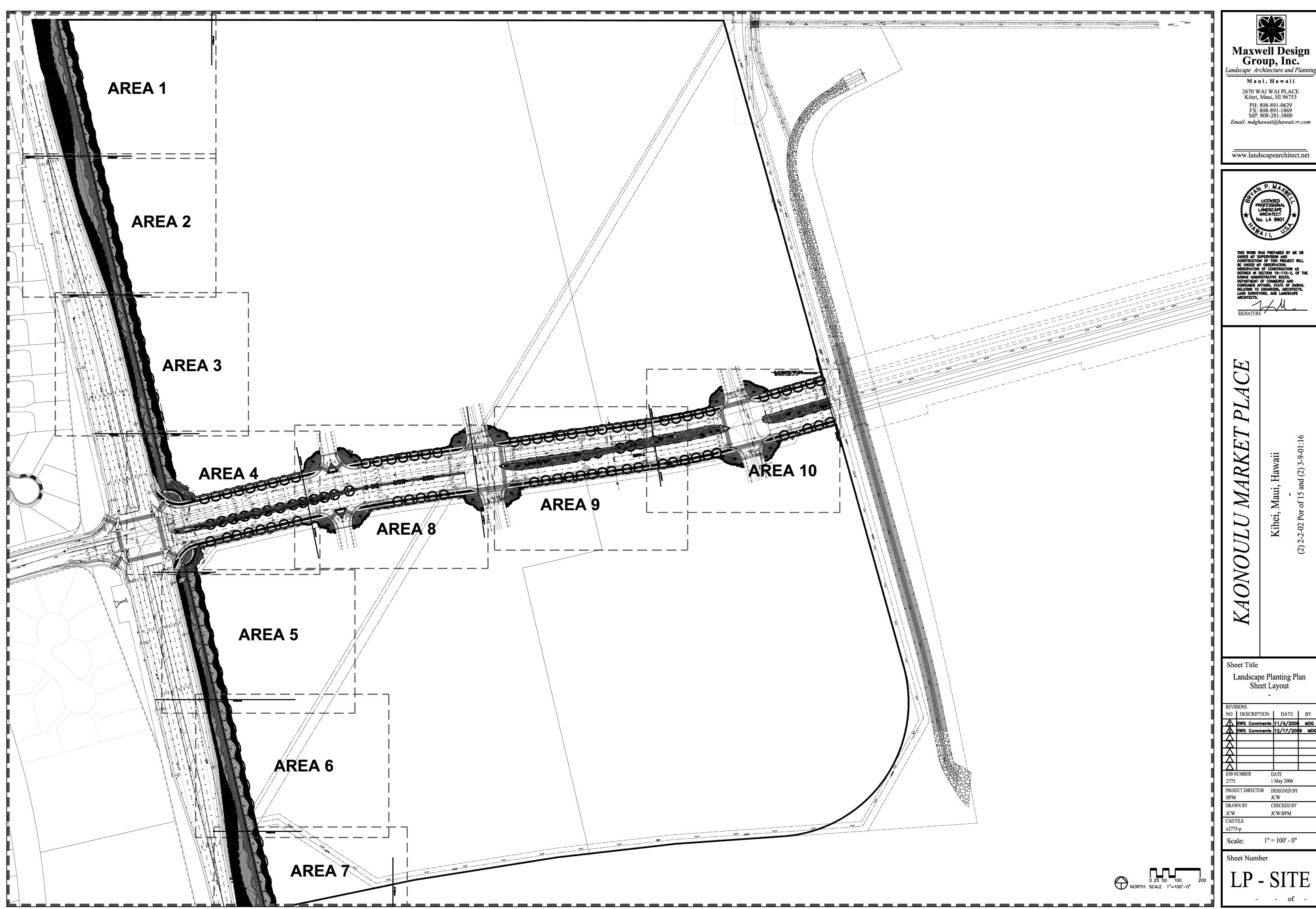
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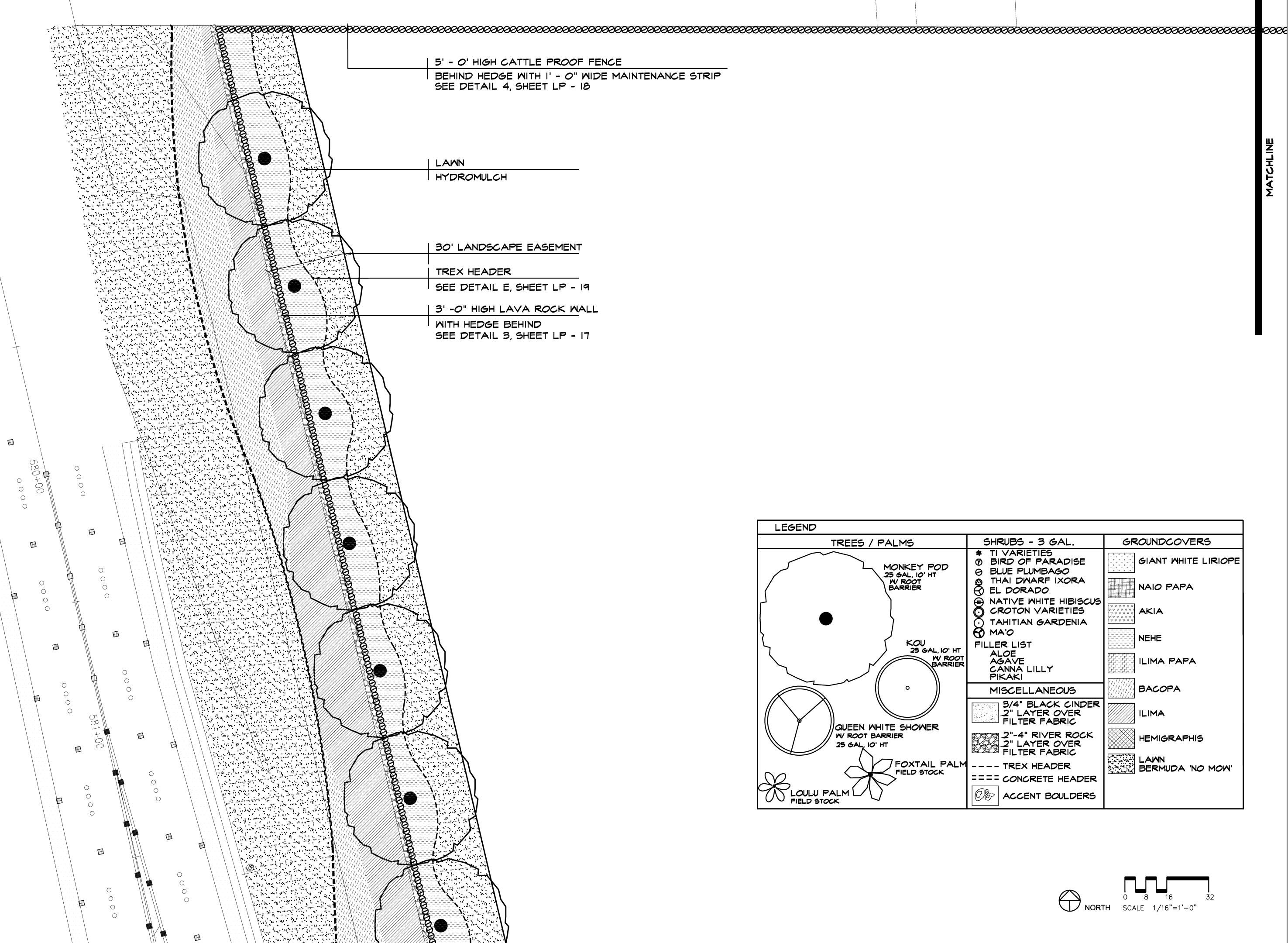
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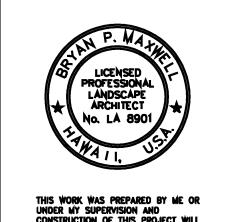
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RK Maui, Kihei,

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Sheet Title Landscape Planting Plan

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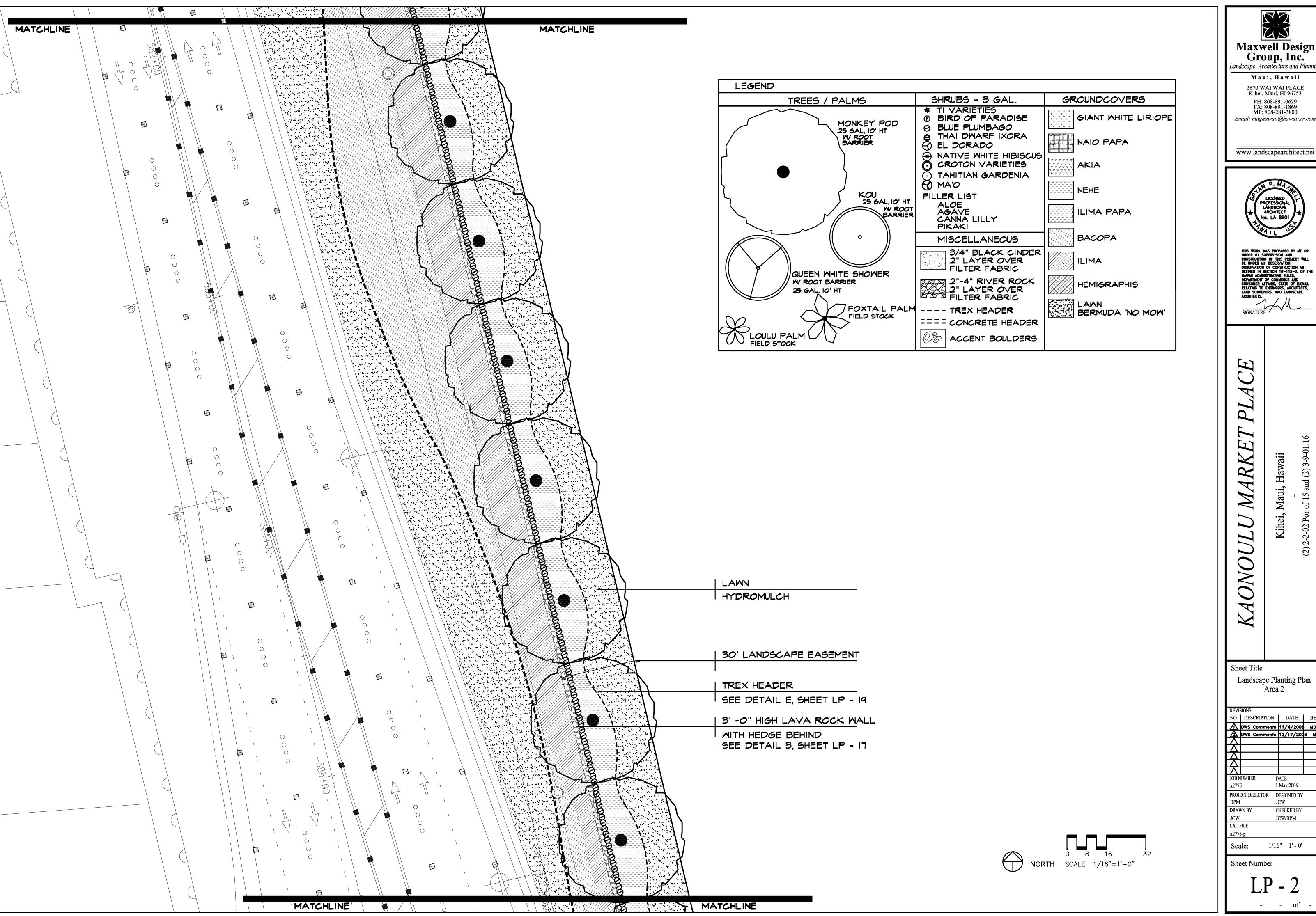
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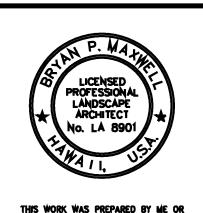
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Landscape Planting Plan

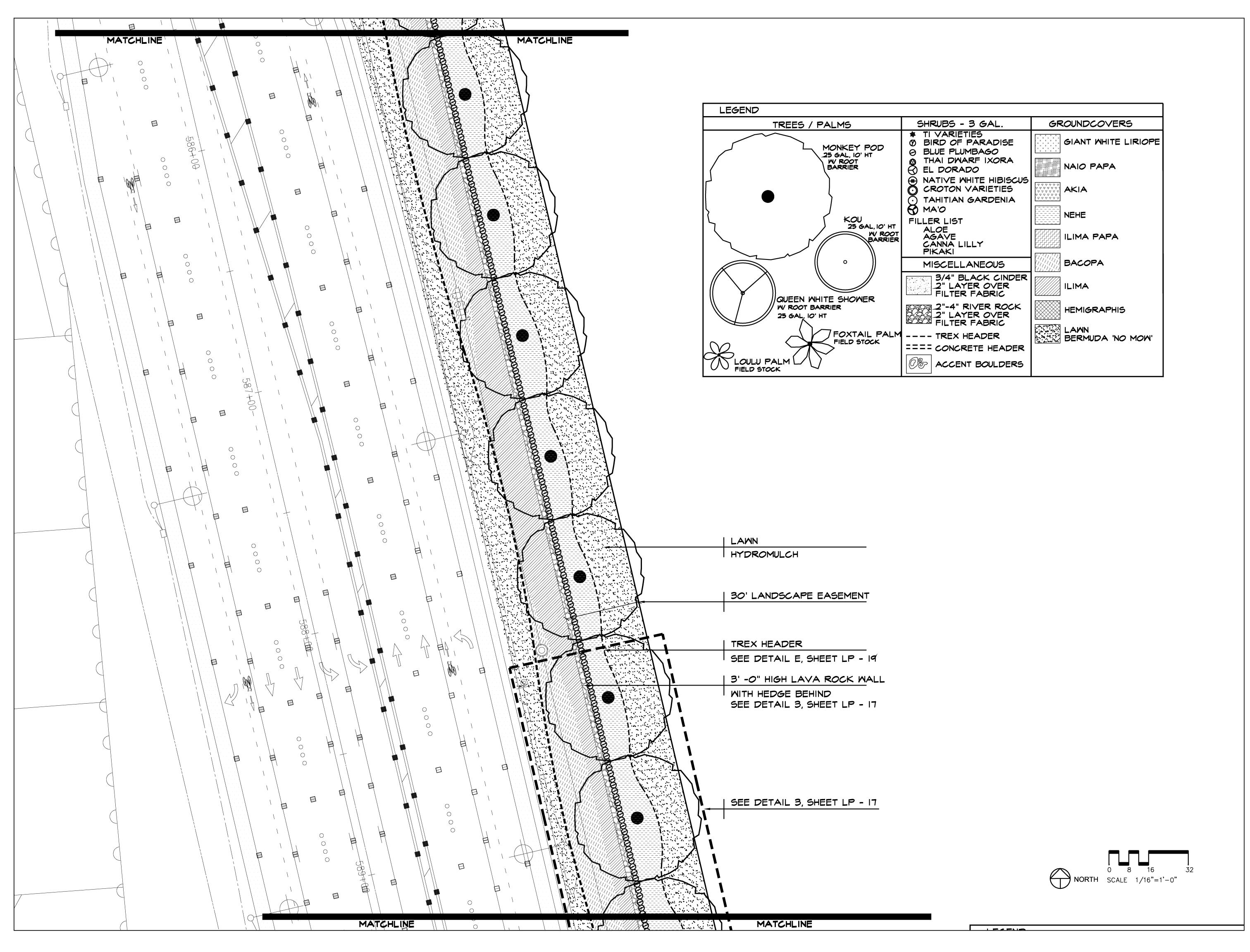
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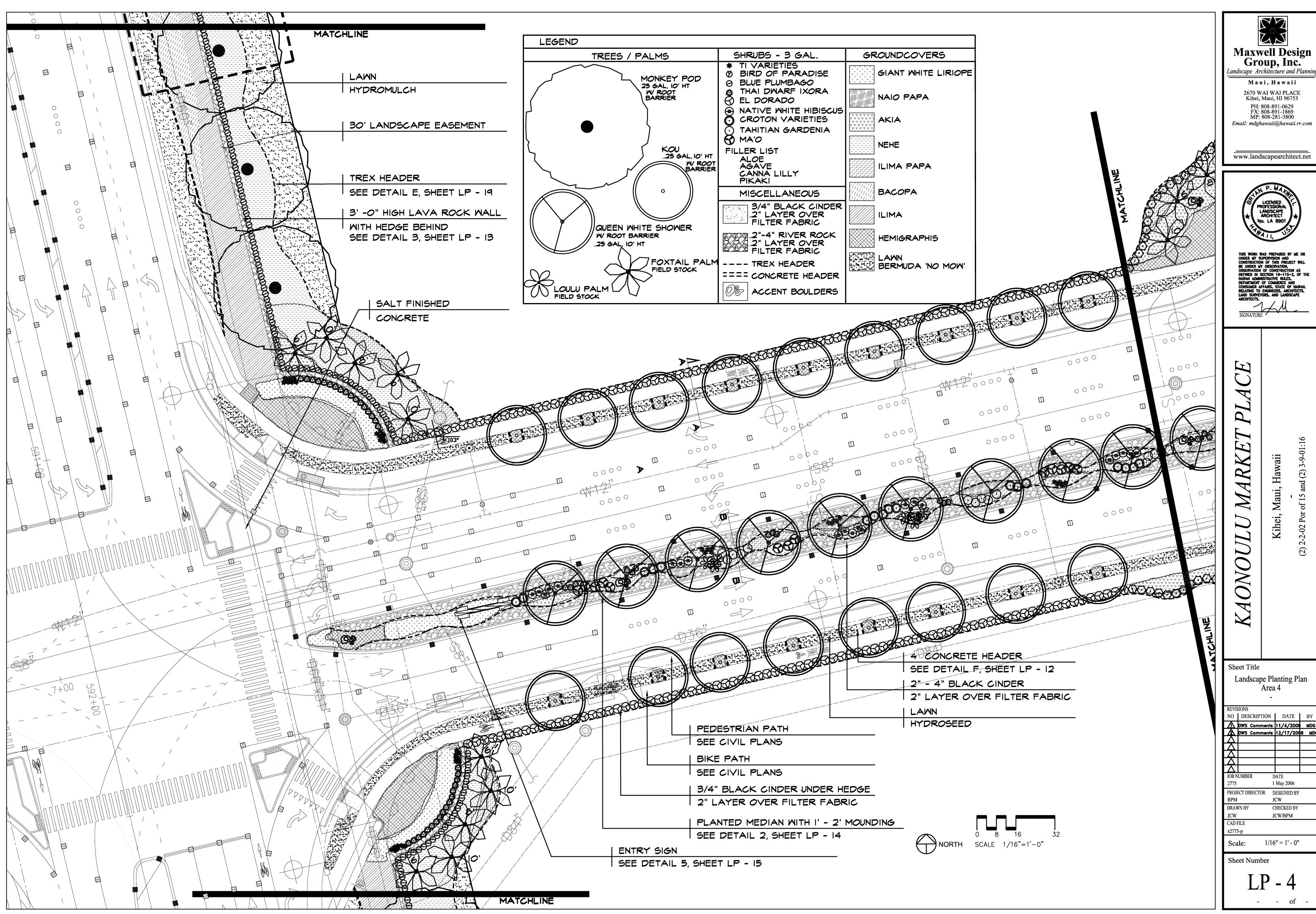
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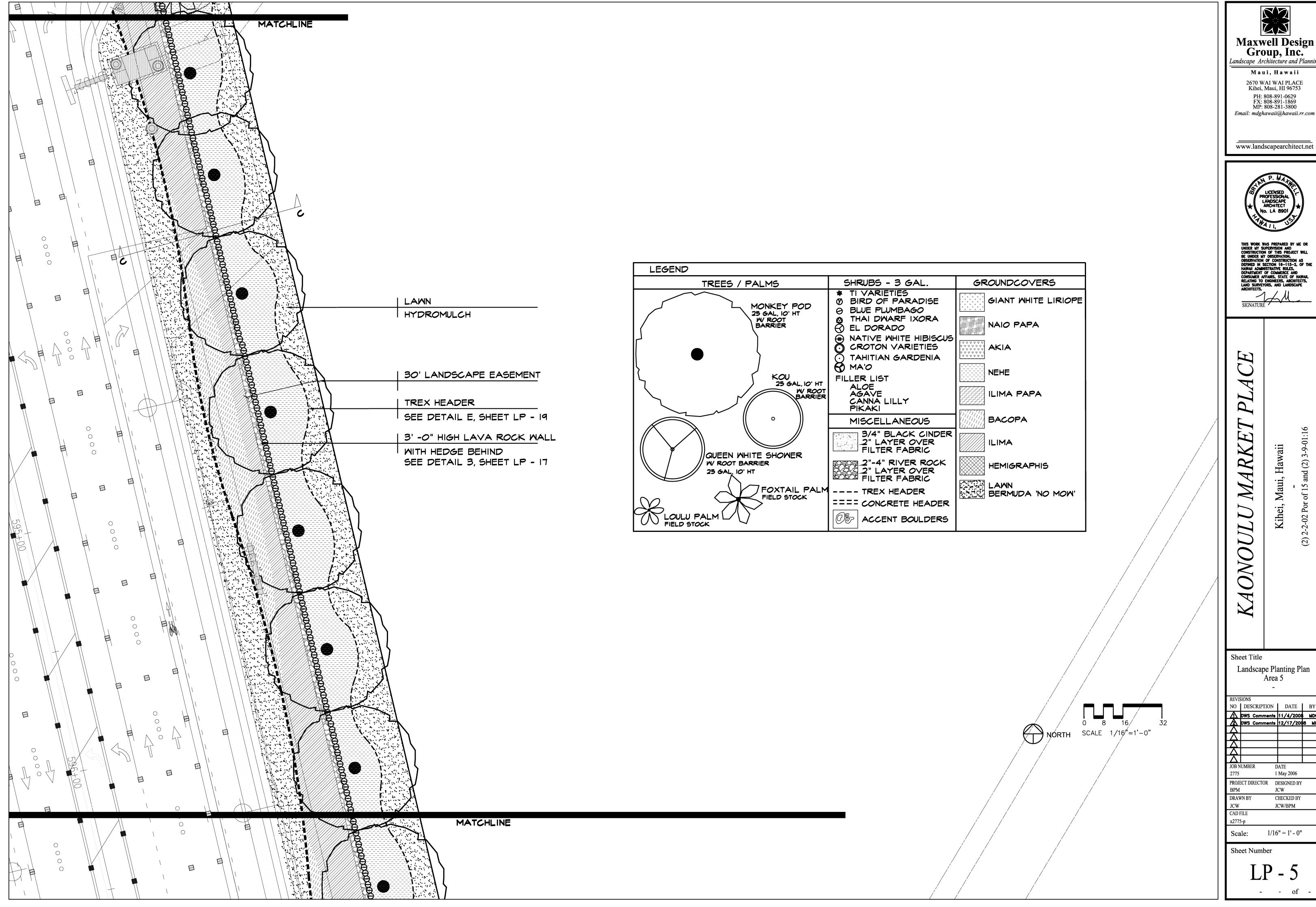
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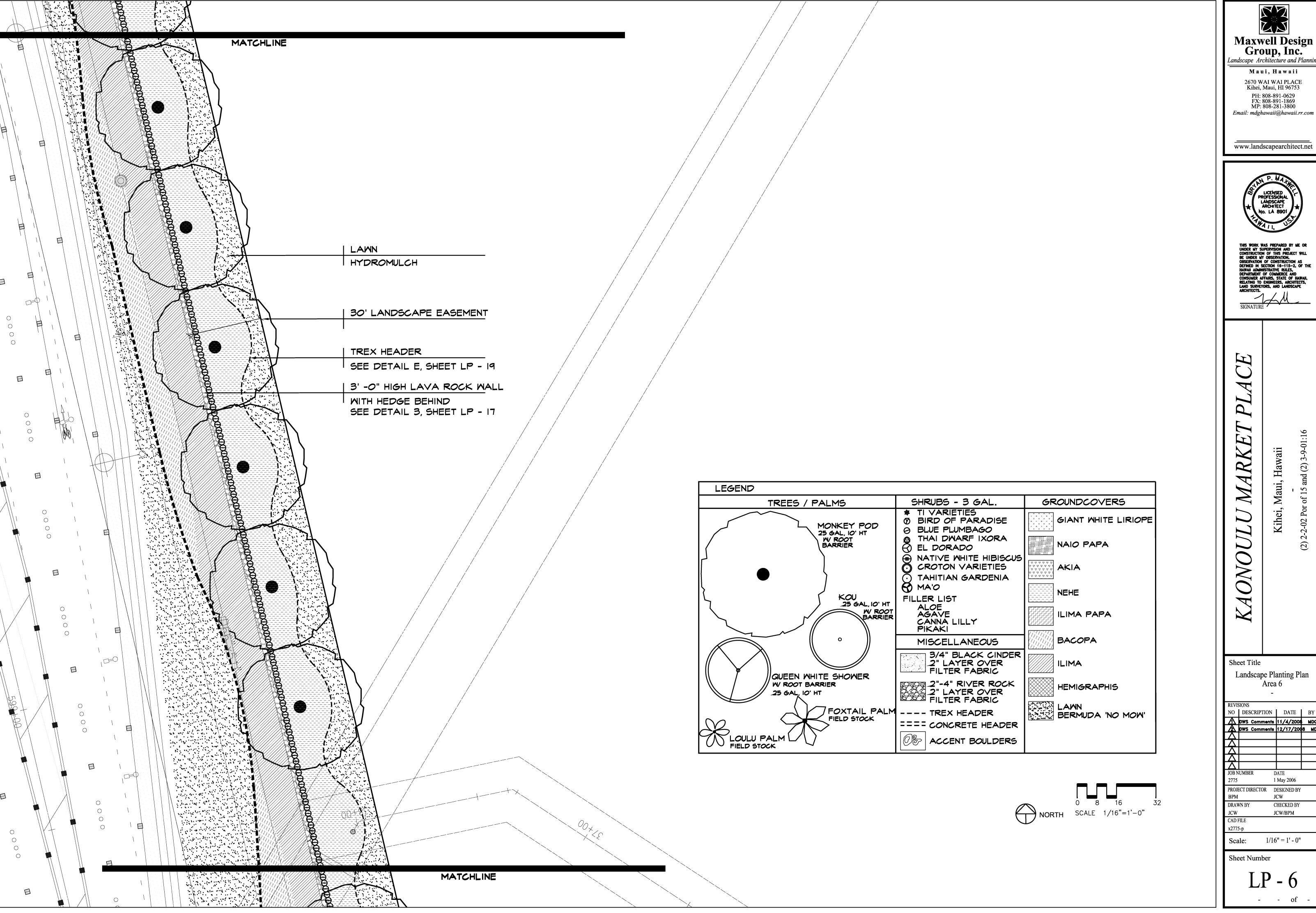
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Landscape Planting Plan Area 5

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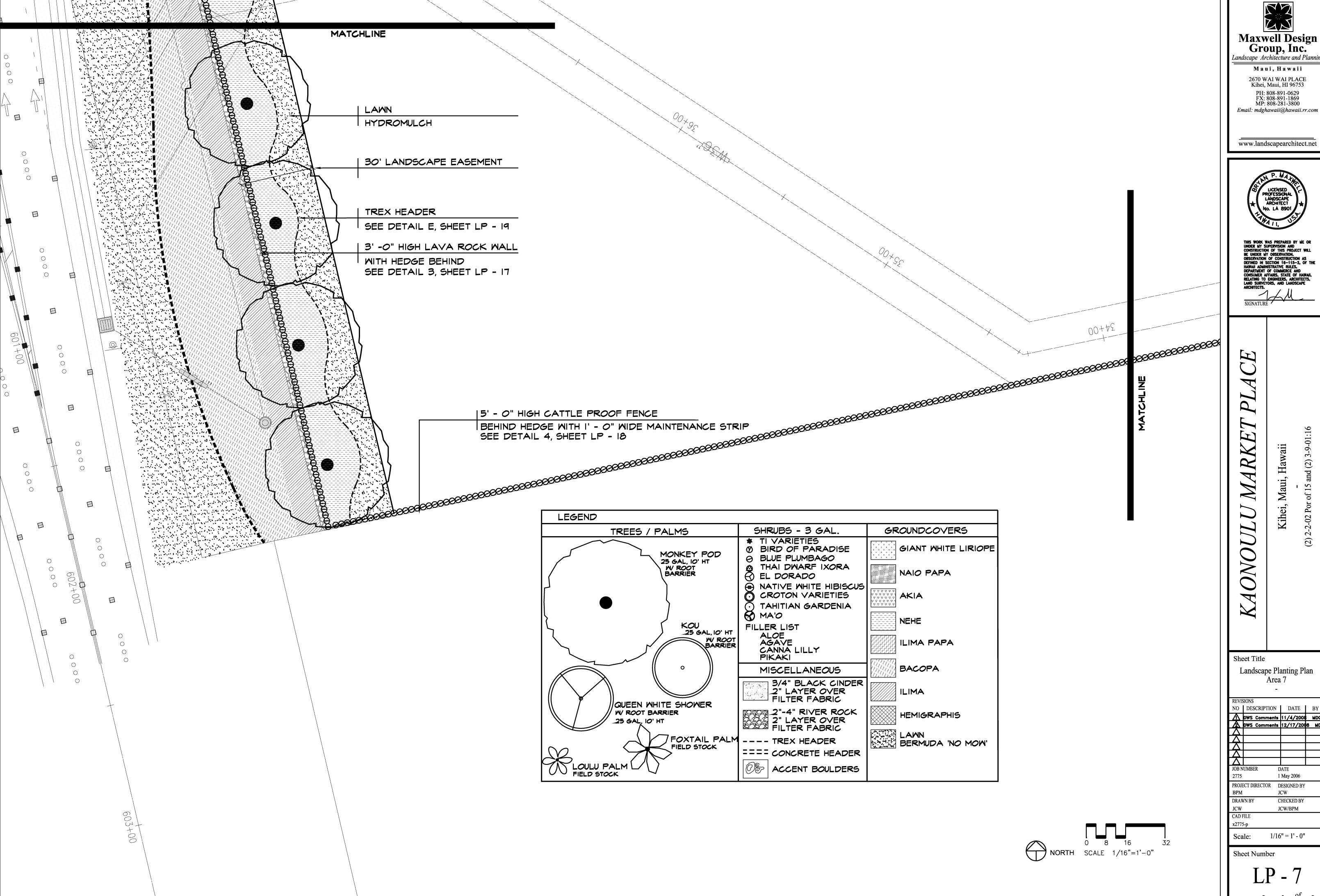
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Landscape Planting Plan Area 6

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JCW/BPM

1/16" = 1' - 0"





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Kihei, Maui,

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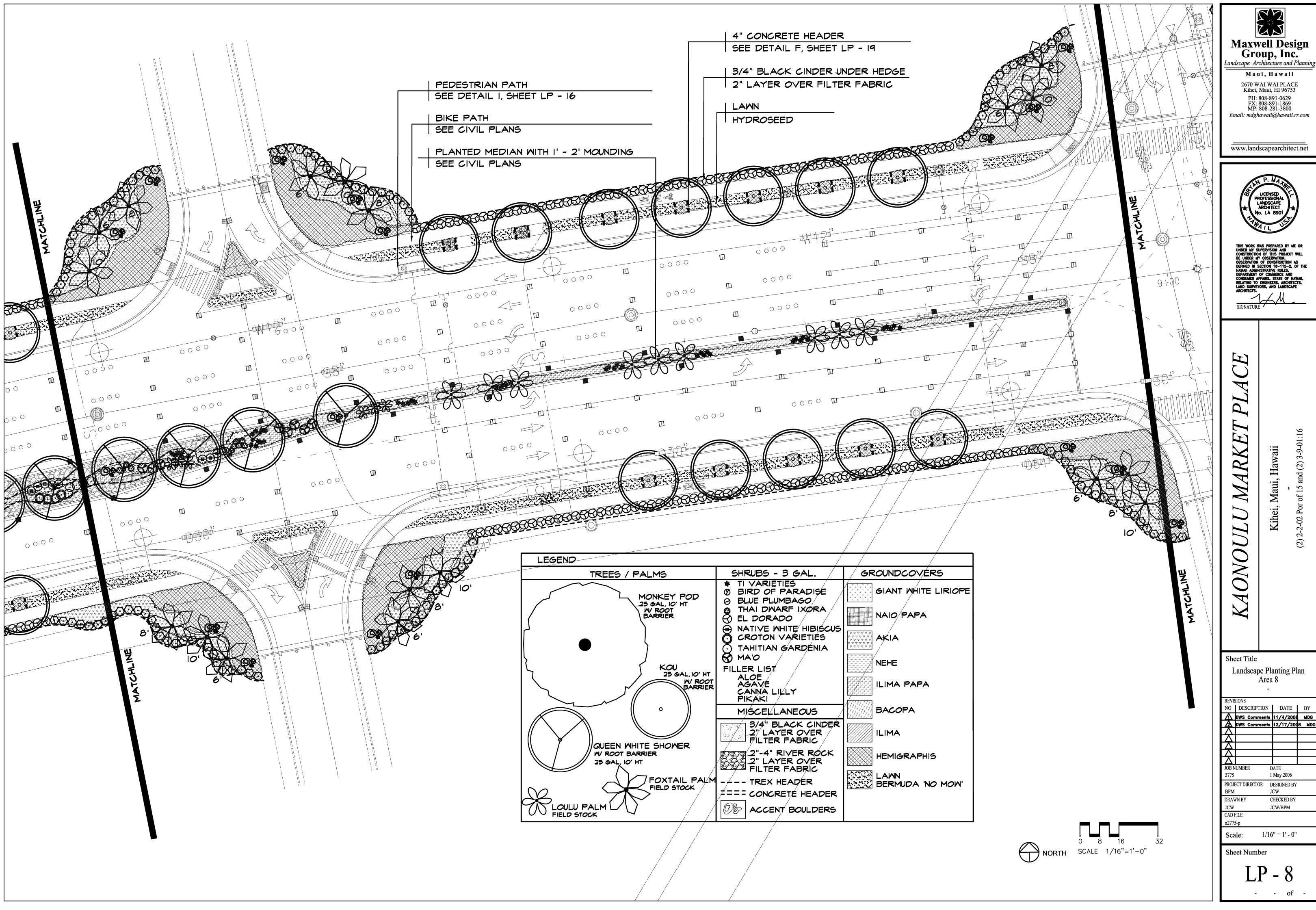
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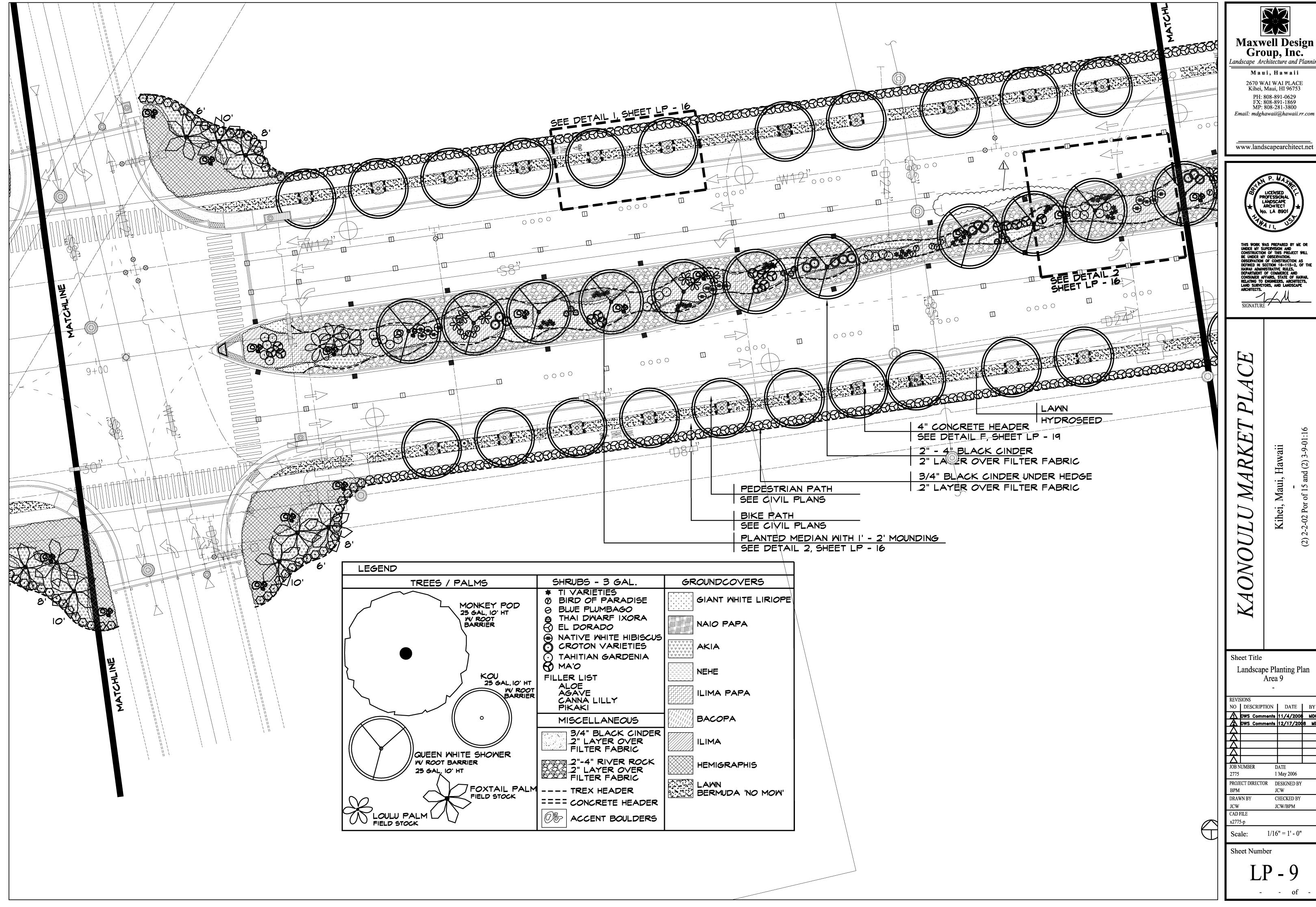
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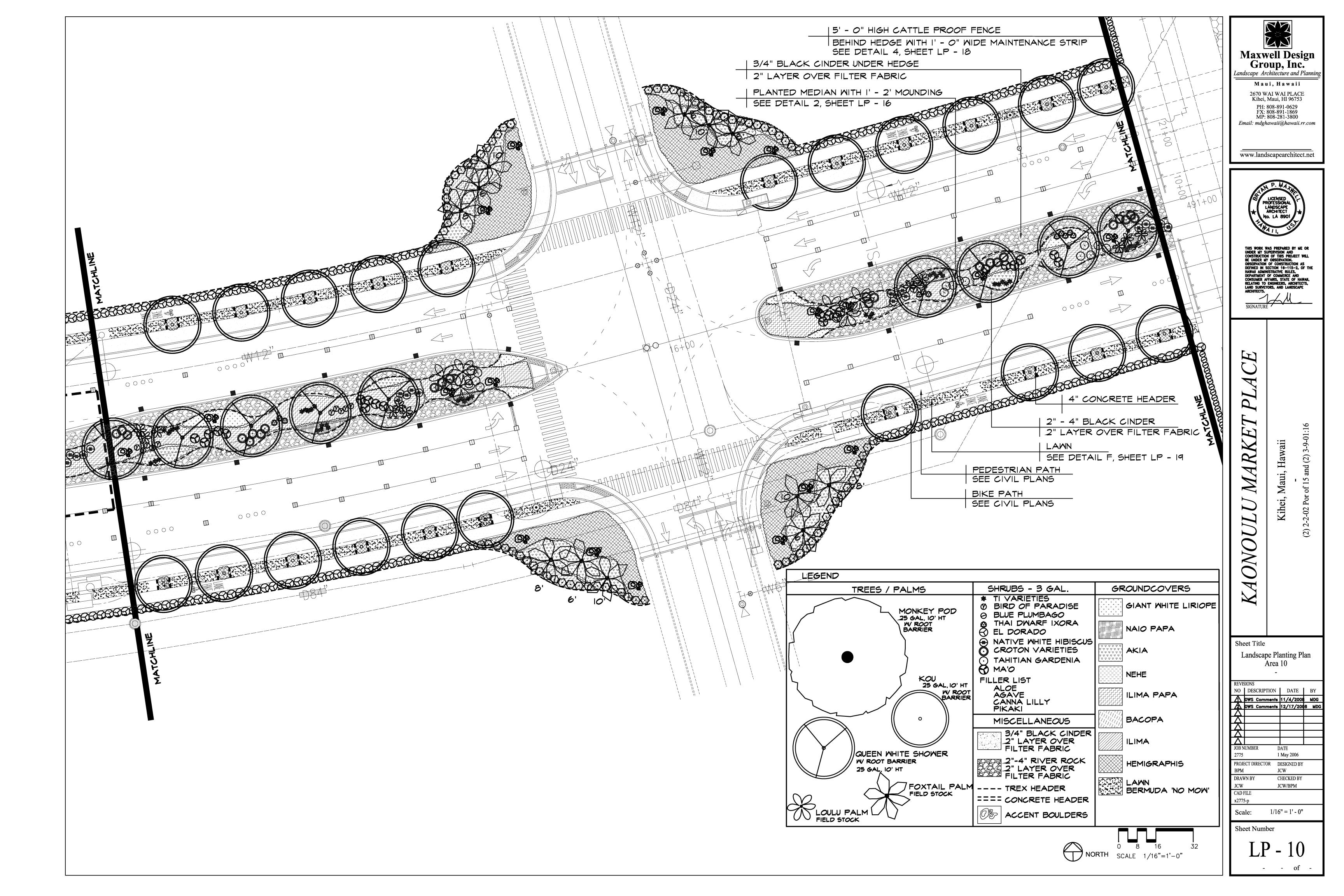
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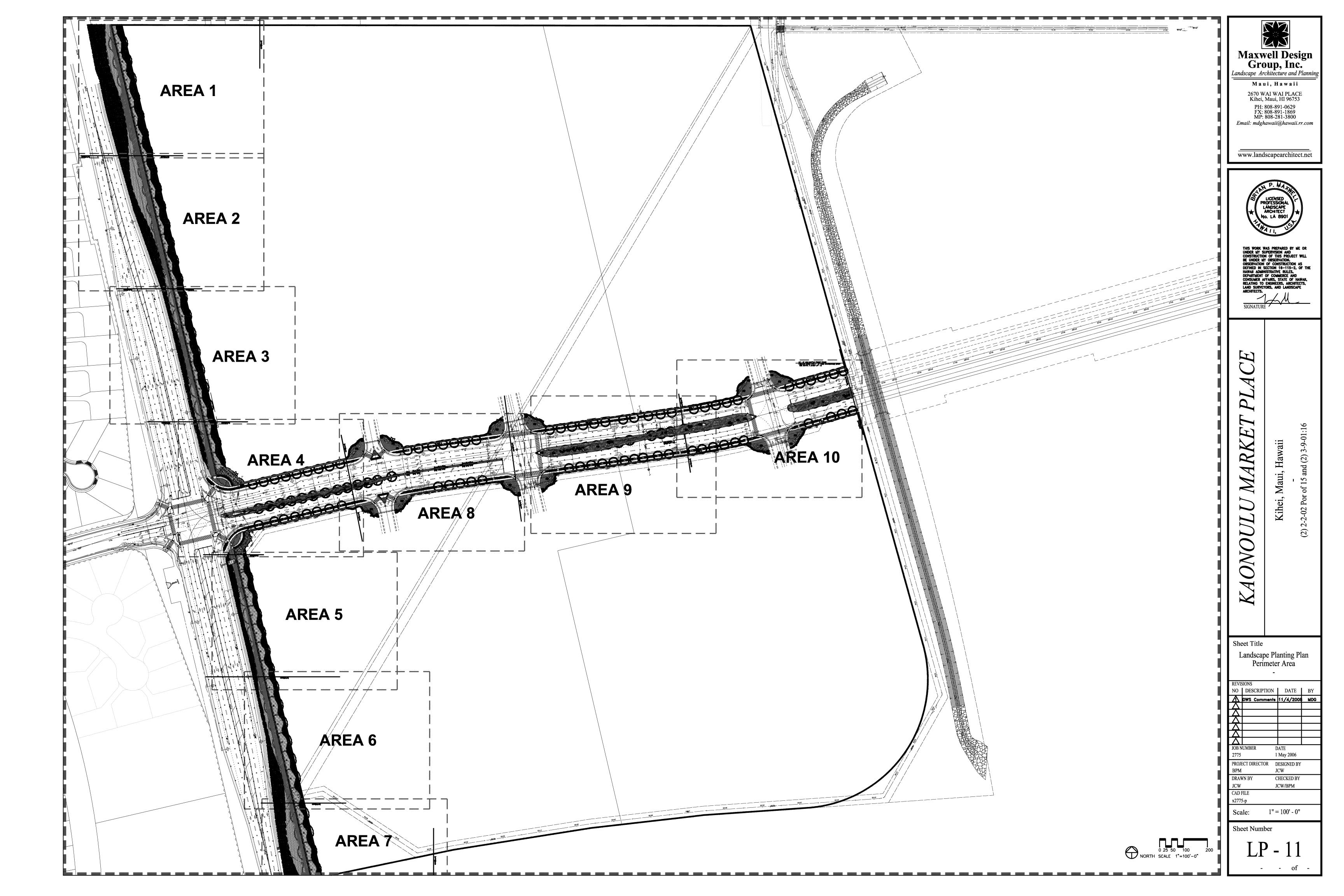
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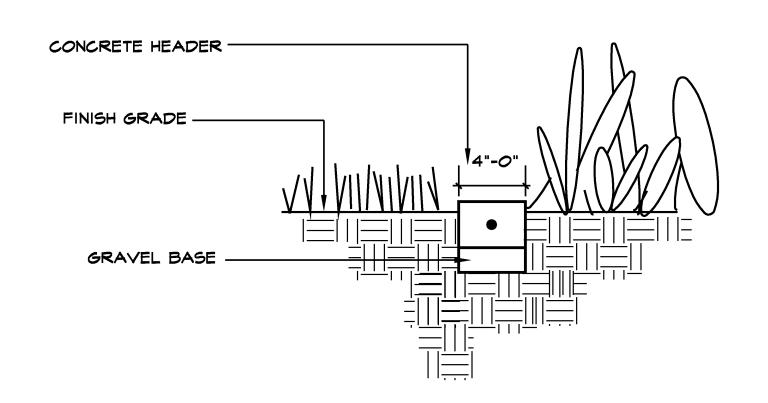




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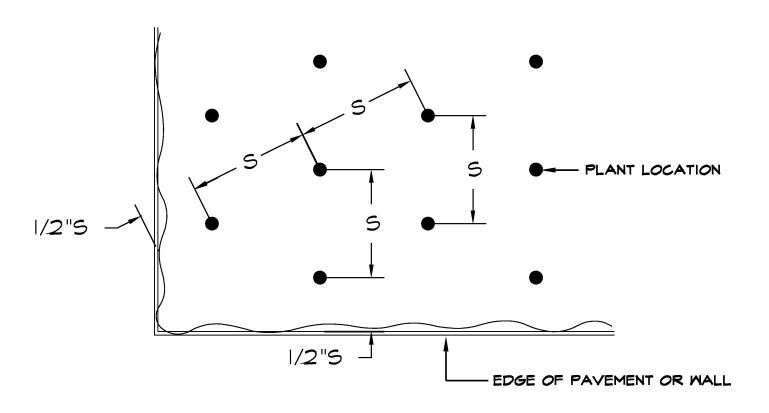




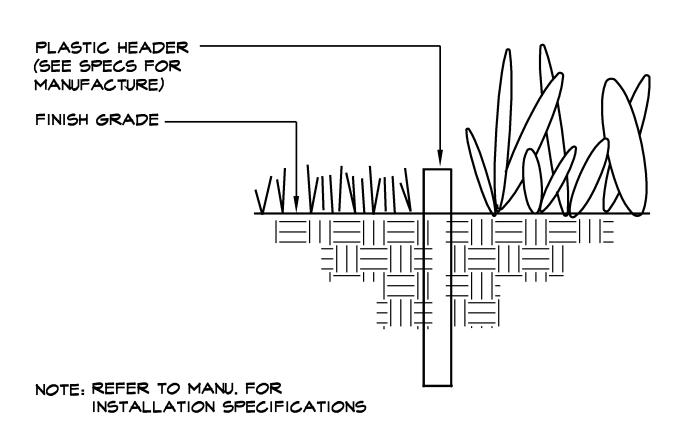


I. S = SPACING, (REFER PLANT LIST FOR AMOUNT OF SPACING.)

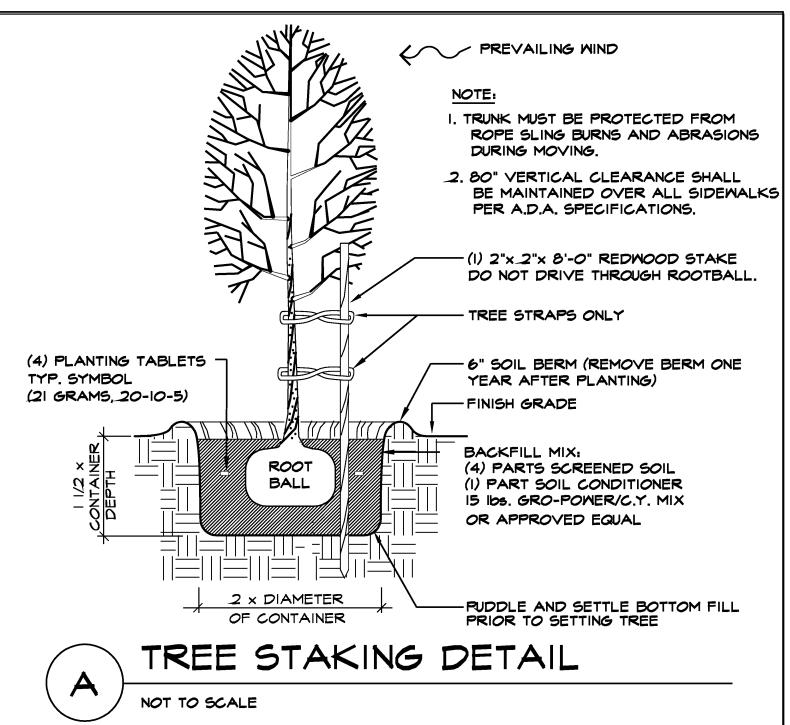
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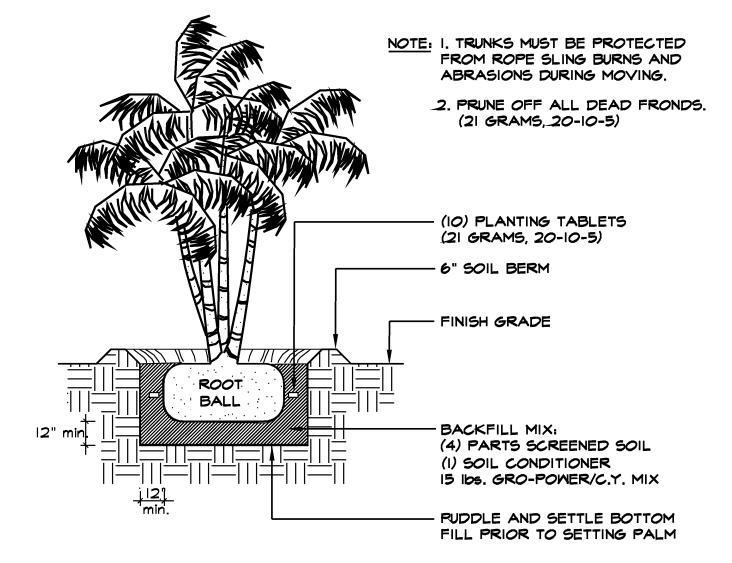




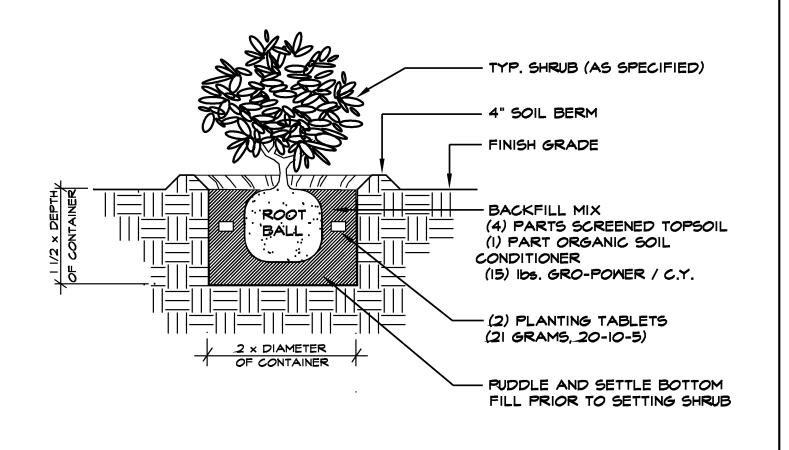




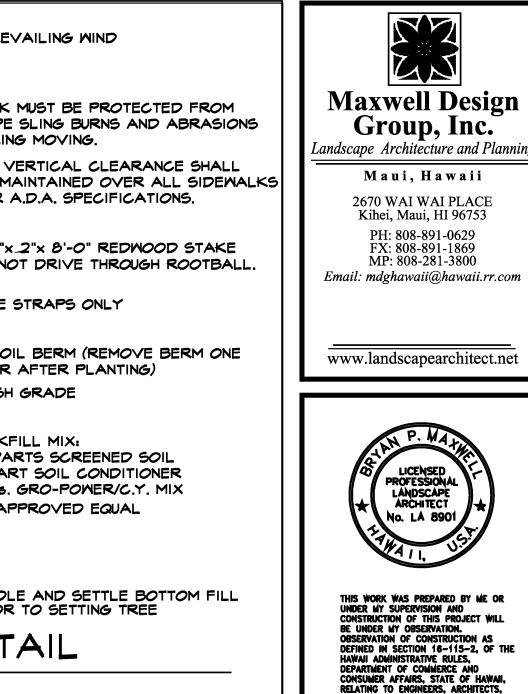


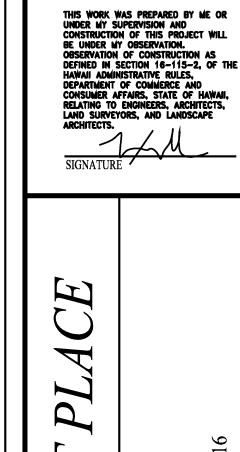












Kihei, Maui,

Sheet Title LANDSCAPE **DETAIL**

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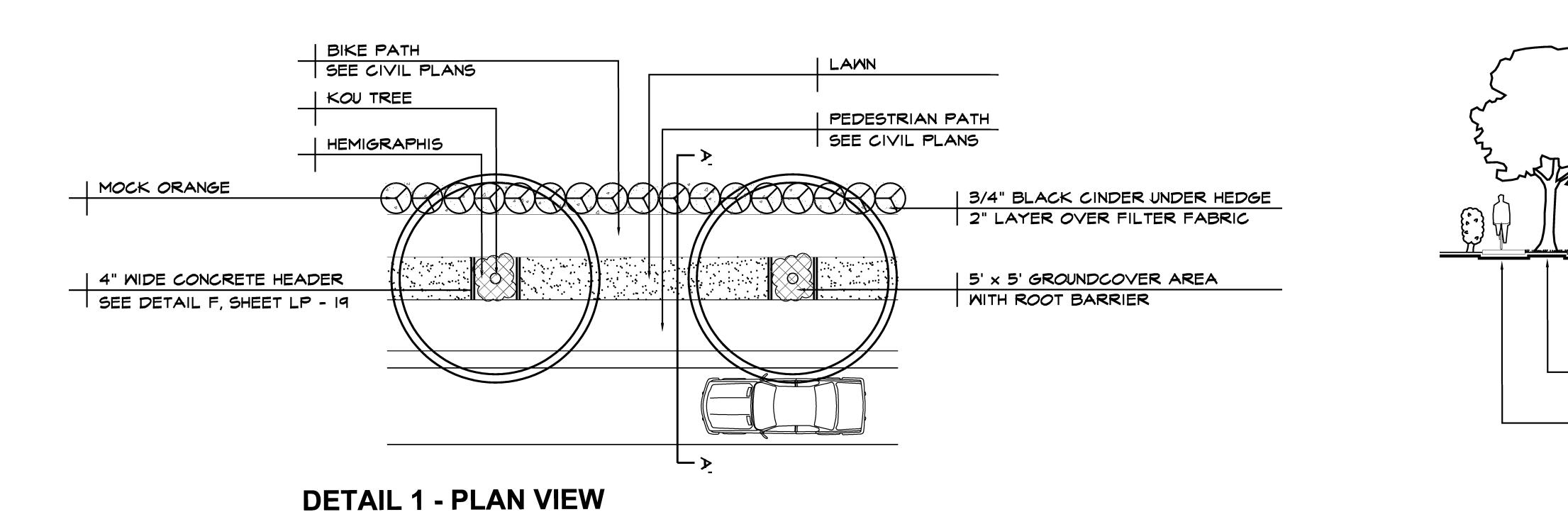
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LP - 12

PLANT NOTES

- Contractor shall verify all plant quanities and dimension prior to construction.
- Contractor shall be responsible for locating and protecting all existing utilities.
- Notify and meet with the Landscape Architect prior to plant installation for verification and interpretation of plans.
- Landscape contractor shall clear and grub planting areas prior to commencing with work.
- All trees and Palms to be field placed by landscape architect. Call I week prior to planting for coordination.





SEE CIVIL PLANS

BIKE PATH

SCALE: 1/8" = 1'

PEDESTRIAN PATH

5' WIDE PLANTING STRIP

SEE CIVIL PLANS

KOU TREE

RAINBOW SHOWER TREE

BIRD OF PARADISE

TI VARIETIES

LAUA'E FERN

NAIO PAPA

2" LAYER OVER FILTER FABRIC

TO BE PLACED 2" BELOW TOP OF CURB SEE DETAIL 2B, THIS SHEET

2" - 4" BLACK CINDER

 $\Box \bar{a}$ ACCENT BOULDERS 1'-3' DIA. MAO 2" - 4" BLACK CINDER GIANT WHITE LIRIOPE 2" LAYER OVER FILTER FABRIC TO BE PLACED 2" BELOW TOP OF CURB SEE DETAIL 2B, THIS SHEET IXORA 'THAI DWARF' RAINBOW SHOWER TREE WITH ROOT BARRIER LAUA'E FERN BIRD OF PARADISE CROTON VARIETIES TI VARITIES NATURAL LOG - 1'-0", 10'-15' IN LENGTH ROAD CURB

ROAD CURB PLANTING MEDIAN

I' - 2' CENTER MOUNDING

DETAIL 2 - PLAN VIEW

SCALE: 1/8" = 1'

SCALE: 1/8" = 1'

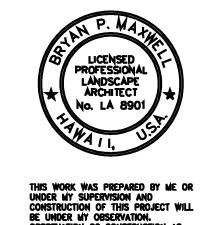
DETAIL 2B - SECTION A

NOT TO SCALE

DETAIL 2 - SECTION B

SCALE: 1/8" = 1'





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SIGNATURE

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Kihei, Maui, Hawaii

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Hardscape Details

REVISIONS
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DWS Comments 11/4/2008 MDG

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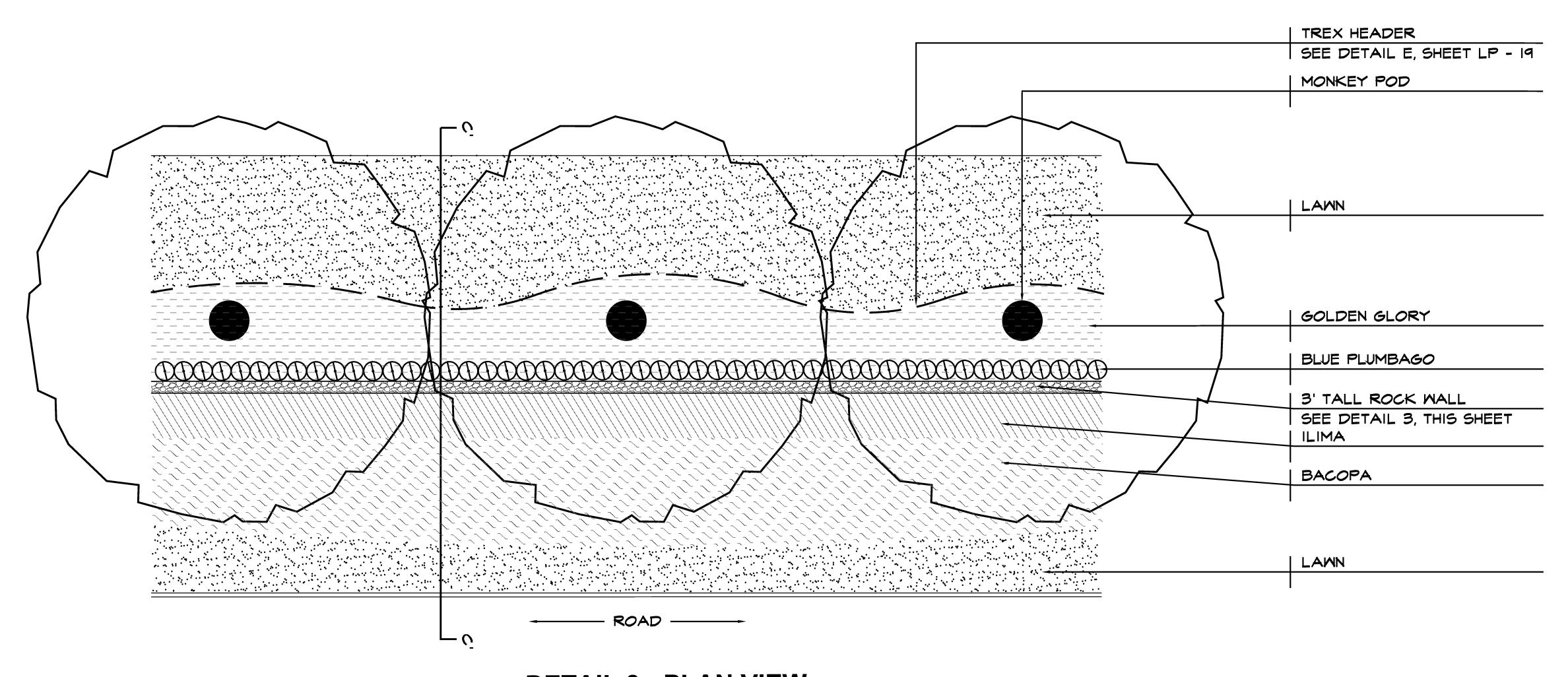
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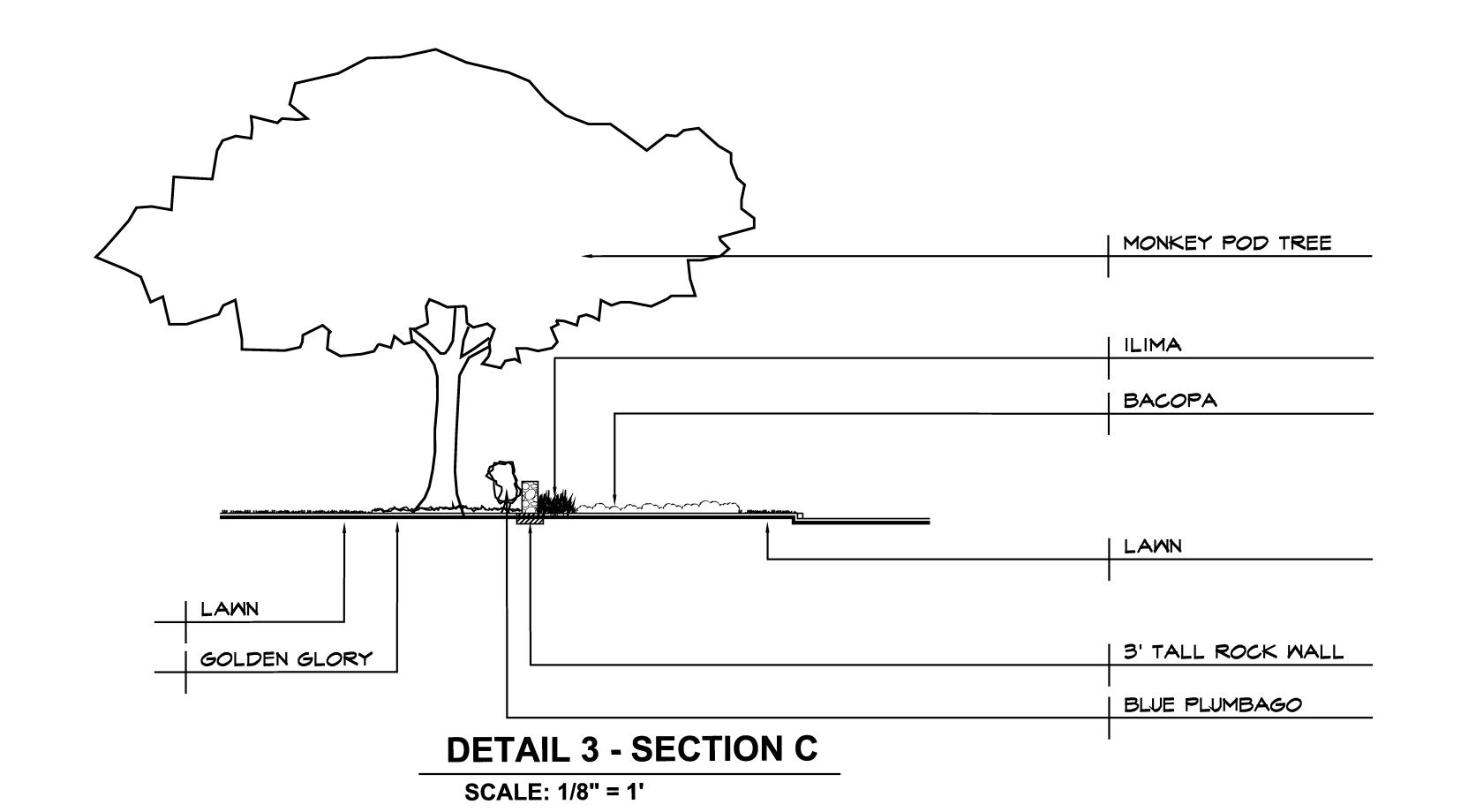
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LP - 13

- - of



DETAIL 3 - PLAN VIEW SCALE: 1/8" = 1'





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Kihei, Maui, Hawaii -

Sheet Title
Hardscape Details

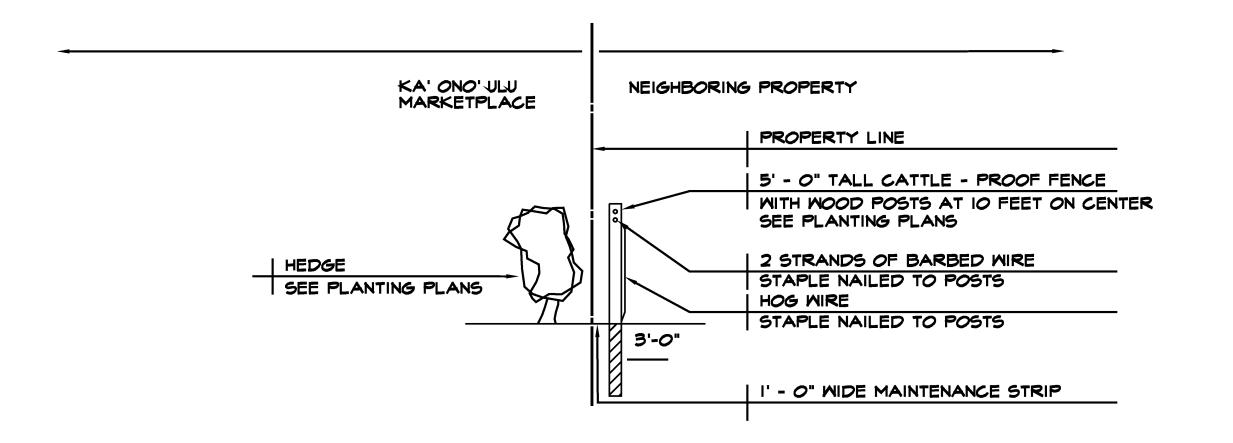
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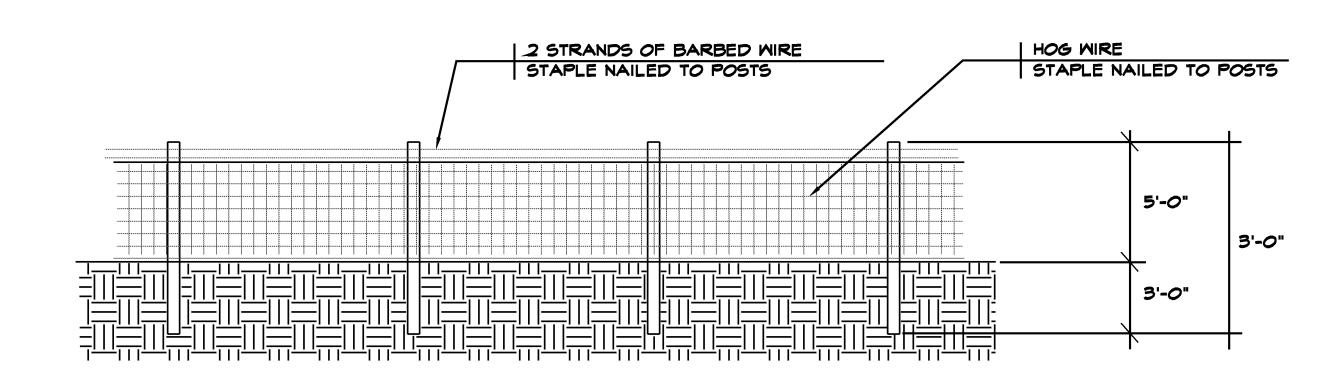
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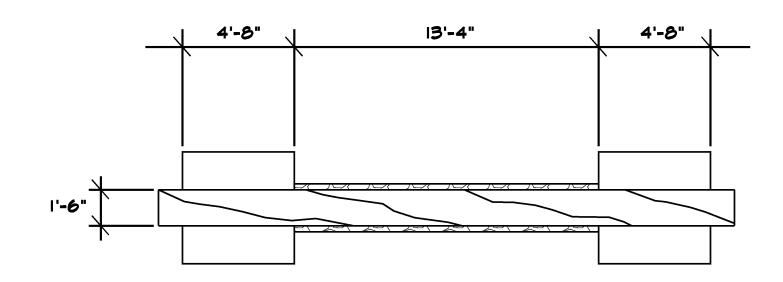
LP - 14





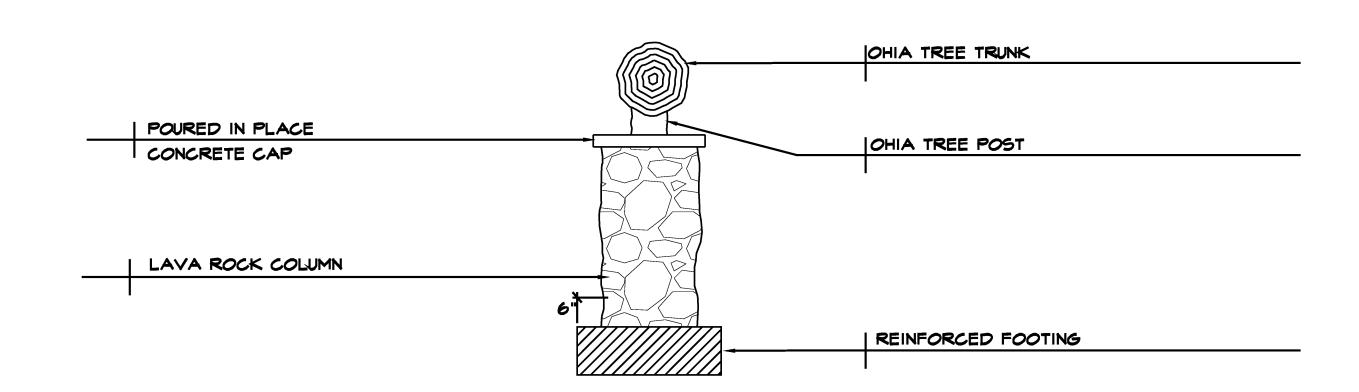
DETAIL 4 - SECTION D

SCALE: 3/8" = 1'



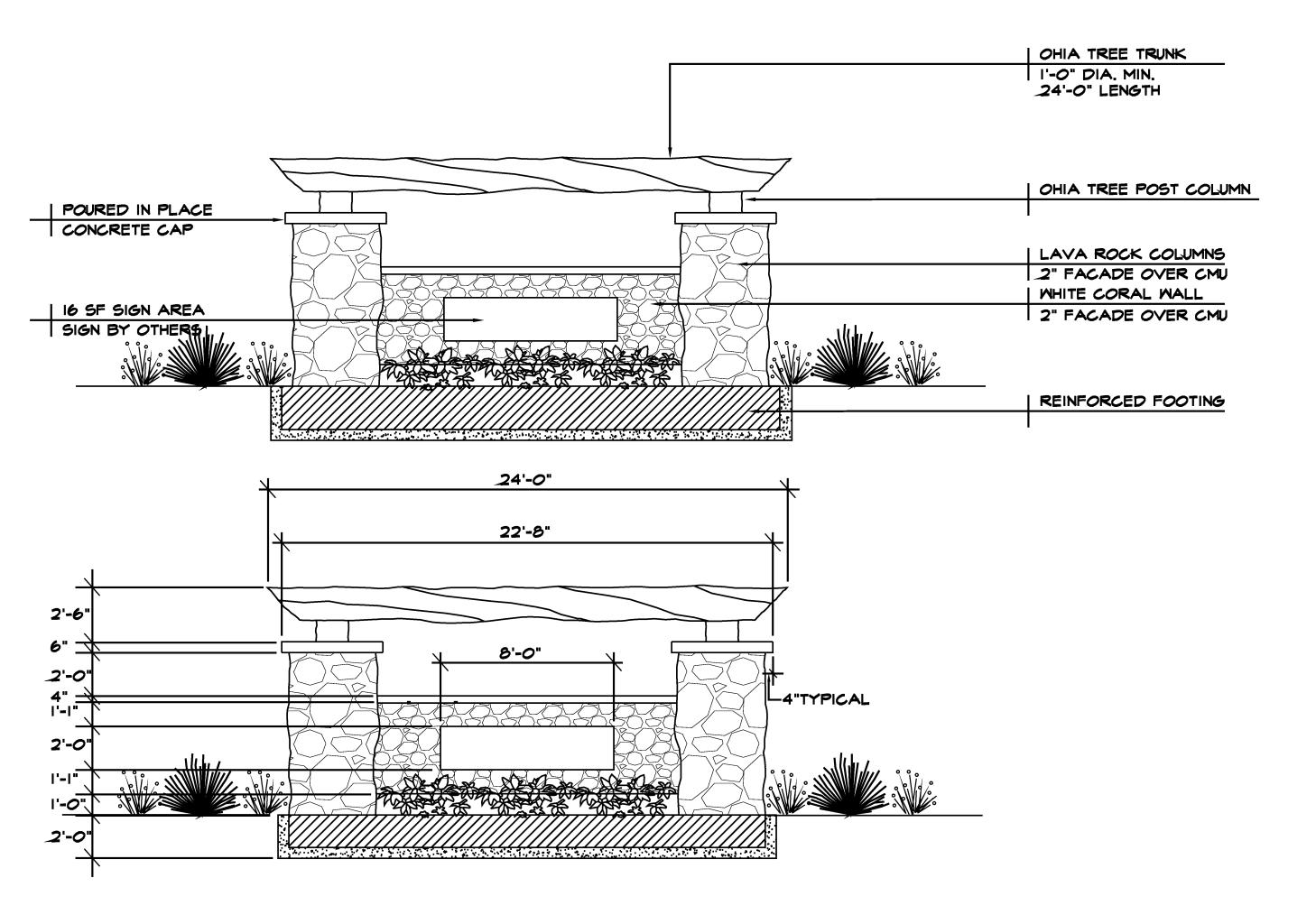
DETAIL 5 - PLAN VIEW

SCALE: 3/8" = 1'



DETAIL 5 - SIDE VIEW

SCALE: 3/8" = 1'



DETAIL 5 - SECTION E

SCALE: 3/8" = 1'



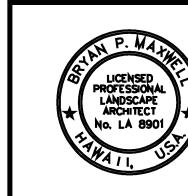
Maui, Hawaii

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BIGNATURE 7

Kihei, Maui, Hawaii -(2) 2-2-02 Por of 15 and (2) 3-9-01 :16

Sheet Title

Hardscape Details -

REVISIONS
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DWS Comments 11/4/2008 MDG

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Sheet Number

CAD FILE

LP - 15

BPM/JCW

Unemori, Darren T.

From: Lesli Otani <Lesli.Otani@co.maui.hi.us>
Sent: Tuesday, July 10, 2018 11:40 AM

To: Unemori, Darren T.

Cc: Estelle Imamura; Miller, Kris C.

Subject: Re: Kaonoulu Ranch (Large-Lot) Subd. No. 2 and Kaonoulu Ranch Water Tank

Subdivision; DSA Subd. File Nos. 2.2795 and 2.2995

Attachments: Request for Additional Time and Extension.pdf

Darren,

In response to your attached request, the deadline to complete the subdivision construction improvements for Subdivision File Nos. 2.2795 and 2.2995 have been extended to August 25, 2019.

According to our database, the current expiration date of G 2012/0030 is April 4, 2019 and for G 2012/0039 it is April 12, 2019. Please submit a time extension requests for the grading permits closer to the expiration deadline.

If you have any questions regarding this e-mail please contact me.

Lesli L. Otani, P.E., L.S.

Development Services Administration

Department of Public Works

County of Maui

250 South High Street

Wailuku, Hawaii 96793

Phone: (808) 270-7242

Lesli.Otani@mauicounty.gov

>>> "Miller, Kris C." <kmiller@wsue.com> 7/9/2018 7:52 AM >>>

Project Name: Kaonoulu Ranch (Large-Lot) Subd. No. 2

Kaonolulu Ranch Water Tank Subdivision

WSUE Project No.: 04010.10; 06035.00

To: Estelle Imamura, DSA

From: Kris Miller on behalf of Darren Unemori

Date: July 9, 2018

Good Morning Estelle,

Please find attached letter requesting additional tim to complete its subdivision improvements and and extension of construction permits issued in conjuction with the Pillani Promenade devleopment.

If you have any questions or concerns, please feel free to contact our office.

Thank you,

Kris Miller

WARREN S. UNEMORI ENGINEERING, INC.

Civil & Structural Engineers / Land Surveyors

Wells Street Professional Center 2145 Wells Street, Suite 403 Wailuku, Maui, Hawaii 96793

Office: (808) 242-4403 Fax: (808) 244-4856

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TEL: (808) 242-4403

FAX: (808) 244-4856

July 9, 2018

Ms. Lesli Otani
Development Services Administration
Department of Public Works
County of Maui
250 South High Street
Wailuku, Hawaii 96793

Dear Ms. Otani,

Subject: Time Extension Request for <u>Kaonolulu Ranch (Large-Lot)</u>

<u>Subdivision No. 2</u> and <u>Kaonolulu Ranch Water Tank Subdivision</u> Subdivision Improvements and Related Construction Permits

DSA Subdivision File Nos. 2.2795 and 2.2995

Kihei, Maui, Hawaii

Landowner and subdivider Piilani Promenade LLC respectfully requests additional time to complete its subdivision improvements and an extension of construction permits issued in conjunction with the Piilani Promenade development, including:

- a) Permit G 2012-0030 for construction of subdivision infrastructure; and
- b) Permit G 2012-0039 for mass grading of the project site.

Our current extension will expire on August 25, 2018, and additional time is needed in order to thoroughly address the concerns of the State Land Use Commission before construction activity resumes.

Thank you very much for considering our request. We look forward to your reply.

Sincerely,

Darren Unemori

cc: Robert Poynor, Piilani Promenade Harry Lake, Koa Partners ALAN M. ARAKAWA Mayor

MILTON M. ARAKAWA, A.I.C.P. Director

MICHAEL M. MIYAMOTO Deputy Director



COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL MANAGEMENT

Wastewater Reclamation Division CARY YAMASHITA, P.E.

Engineering Division

RALPH M. NAGAMINE, L.S., P.E.

Development Services Administration

DAVID TAYLOR, P.E.

BRIAN HASHIRO, P.E. Highways Division

TRACY TAKAMINE, P.E. Solid Waste Division

DEVELOPMENT SERVICES ADMINISTRATION

250 SOUTH HIGH STREET WAILUKU, MAUI, HAWAII 96793

October 16, 2006

OCT 17 2006

WARREN S. UNEMORI ENGINEERING, INC.

Mr. Warren S. Unemori, President WARREN S. UNEMORI ENGINEERING, INC. 2145 Wells Street, Suite 403 Wailuku, Hawaii 96793

SUBJECT: KAONOULU LIGHT INDUSTRIAL

> TMK: (2) 3-9-001:PORTION OF 016 **SUBDIVISION FILE NO. 3.2175**

Dear Mr. Unemori:

Preliminary approval was granted to the subject subdivision on October 16, 2006. Final approval shall be contingent upon compliance with the following conditions:

- 1. Requirements/comments from Maui Electric Company:
 - Electricity is available from nearby existing facilities (overhead and/or a. underground).
 - b. Requires line extension (overhead and/or underground) within private road or property.
 - Requires easement(s) from owner/subdivider/developer within subdivision C. for new or existing MECO facilities.

Comments: Easements and line extensions are required. The applicant must submit a service request to Maui Electric Company. Please contact our Engineering Clerk at 871-2390.

If you have any questions, please contact Ms. Bernadette Johnson at 871-2369.

2. Comply with requirements/comments from the State of Hawaii, Department of Land and Natural Resources, Historic Preservation Division (SHPD). We are currently waiting for preliminary subdivision review comments from SHPD. For further information, please contact SHPD at 243-4641.

SUBJECT: KAONOULU LIGHT INDUSTRIAL SUBDIVISION FILE NO. 3.2175

October 16, 2006

Page 2 of 6

- 3. Comply with requirements/comments from the State of Hawaii, Department of Transportation, Highways Division (SDOT). We are currently waiting for preliminary subdivision review comments from SDOT, Highways Division. For further information, please contact Paul Chung at 873-3535.
- 4. Requirements/comments from the State of Hawaii, Department of Health:

No comment.

Should you have any questions, please call Mr. Herbert S. Matsubayashi at 984-8230.

- 5. Requirements/comments from the Department of Public Works and Environmental Management, Wastewater Reclamation Division:
 - a. Although wastewater system capacity is currently available as of September 13, 2006, the developer should be informed that wastewater system capacity cannot be ensured until the issuance of the building permit.
 - b. Provide discussion and calculations (sewer impact study) to substantiate that the existing wastewater system is adequate to serve this project. Be advised, upgrade to the existing wastewater system may be required.
 - c. Wastewater contribution calculations are required before building permit is issued.
 - Developer shall pay assessment fees for treatment plant expansion costs in accordance with ordinance setting forth such fees. (Kihei Assessment Area #3)
 - e. Developer is required to fund any necessary off-site improvements to collection system and wastewater pump stations.
 - f. Plans should show the installation of a single service lateral and an advance riser for each lot and installation of a service manhole near the property line prior to connection to the County sewer.
 - g. Non-contact cooling water, condensate, etc. should not drain to the wastewater system.

SUBJECT: KAONOULU LIGHT INDUSTRIAL

SUBDIVISION FILE NO. 3.2175

October 16, 2006 Page 3 of 6

h. Indicate on the plans the ownership of each easement (in favor of which party). NOTE: County will not accept sewer easements that traverse private property.

- i. Commercial kitchen facilities within the proposed project shall comply with pretreatment requirements (including grease interceptors, sample boxes, screens, etc.).
- j. The proposed sewer improvements shall be privately owned and maintained.

If you have any questions, please contact Ms. Dyan Ariyoshi at 270-7417.

- 6. Comply with requirements/comments from the Department of Planning. We are currently waiting for preliminary subdivision review comments from the Department of Planning. For further information, please contact Mr. Francis Cerizo at 270-7253.
- 7. Comply with requirements/comments from the Department of Water Supply (DWS). We are currently waiting for preliminary subdivision review comments from DWS. For further information, please contact DWS at 270-7835.
- 8. Requirements/comments from the Department of Parks and Recreation:

We have reviewed the Preliminary Plat Review for the subject project and have no comments to submit. Subdivisions that do not develop buildings, apartments, and/or condominiums for residential use are not subject to park dedication requirements.

If you have any questions, please contact Mr. Patrick Matsui at 270-7387.

9. Requirements/comments from the Department of Fire and Public Safety:

At this time, the Fire Prevention Bureau would request that a water supply for fire protection and Fire Department access roads shall be provided prior to final subdivision approval. Once construction of buildings are planned, there shall be at least one hydrant within 300 feet of any building to be constructed. Water supply for fire protection shall have a minimum flow of 2,000 gallons per minute for a two hour duration with hydrant spacing a maximum of 250 feet between hydrants.

SUBJECT: KAONOULU LIGHT INDUSTRIAL SUBDIVISION FILE NO. 3.2175

October 16, 2006 Page 4 of 6

Access roads to buildings shall have a clear width of 20 feet and dead end/culdesac streets should have a clear width of 32 feet. All turns and required turnarounds shall have an outside turning radius of 40.5 feet.

If you have any questions, please contact Lt. Scott English at 270-7122.

- 10. In accordance with Section 18.12.030(E)(13.a.) of the Maui County Code (MCC), submit a letter from all governmental agencies with an easement, lease or license affecting the land subdivided consenting to the preparation and recording of the final plat.
- 11. In accordance with Section 18.12.040(B) MCC, submit a copy of any deed restrictions or covenants applicable to the subdivision. If there are none, please indicate this in writing.
- 12. In accordance with Section 18.12.040(C) MCC, submit a tax clearance certificate (issued by Department of Finance, Real Property Tax Division) to show written proof that all taxes and assessments on the tract are paid to date. An "Application for Tax Clearance" form is enclosed for your use. **NOTE:** The tax clearance certificate shall be valid at the time of final subdivision approval.
- 13. In accordance with Section 18.20.030 (Pavement of streets), improve the proposed subdivision roadways to the provisions of the subdivision ordinance for roadways within the urban district.
- 14. Comply with or show compliance with Section 18.20.040(3.a.) MCC which requires the pavement on existing streets providing access to the subdivision to be a minimum width of twenty-four feet in areas zoned apartment, business, hotel or industrial. The director may require such additional improvements as may be practicable, up to and including curbs, gutters and sidewalks. Contact the Engineering Division at 270-7745 for roadway improvement requirements.
- 15. Design and construct the drainage facilities to the requirements of the Department of Public Works and Environmental Management. A detailed final drainage report and site specific erosion control plan shall be submitted with the construction plans for review and approval. The drainage report shall include, but not be limited to, hydrologic and hydraulic calculations, and the schemes for disposal of runoff waters. The site specific erosion control plan shall show the location and details of structural and non-structural best management measures. The drainage and erosion control plans shall provide verification that the grading and all runoff water generated by the project will not have an adverse effect on the adjacent and downstream properties.

SUBJECT: KAONOULU LIGHT INDUSTRIAL SUBDIVISION FILE NO. 3.2175

October 16, 2006 Page 5 of 6

- 16. Submit documentation verifying compliance with Section 18.16.060(C) MCC, wherein it states "...A subdivision shall not be allowed unless the director is satisfied that the rights-of-way of access streets are, or will be, at least twenty-four feet. ...".
- 17. Submit a "sight distance" report to determine required sight distance and available sight distance at existing and proposed street intersections. If you have any questions, please contact the Engineering Division at 270-7745.
- 18. Provide verification that adequate driveway sight distance has been provided for each lot. Access shall be restricted along the portion of any lot where adequate sight distance is not available. If you have any questions, please contact the Engineering Division at 270-7745.
- 19. Obtain street name approval from the Commission On Naming Streets, Parks and Facilities, and show street names on the construction plans and final plat.
- 20. Obtain final subdivision approval for Subdivision File No. 2.2795.
- 21. In accordance with Section 12.24A.070(D) MCC, submit street tree planting and irrigation plans and a completed "Maui County Arborist Committee Plans Review Form" for review and approval.
- 22. Submit ten sets of the construction plans and three sets of a drainage and soil erosion control report or drainage verification, whichever is applicable, for review and approval by the applicable agencies. In accordance with Section 18.24.010(D) MCC, a construction plan review fee (\$50/lot) shall be paid upon submission of the construction plans.
 - When the construction plans are approved, post construction requirements will be noted on the construction plan approval letter. The post construction requirements will need to be completed prior to final subdivision approval.
- 23. Submit fifteen prints of the final plat in accordance with Chapter 18.12 (Final Plat) MCC. The final plat shall include all revisions addressing the comments noted on the enclosed preliminary plat. The final plats shall be folded into 8 ½" x 11" sized sheets.
- 24. Submit a digital copy (either on 31/4" floppy disk or compact disc) of the final plat. The digital map shall either be in Arcview GIS file format or be an AutoCAD drawing with NAD83 State Plane Meters, Zone 2 coordinates, and shall include only the lot line drawing.

SUBJECT: KAONOULU LIGHT INDUSTRIAL

SUBDIVISION FILE NO. 3.2175

October 16, 2006

Page 6 of 6

Within one year from the date of preliminary approval of the subdivision, the final plat must be filed and the construction plans must be submitted, unless an extension of time is granted.

Be forewarned that requests for time extensions must be made in writing and received by our department in accordance with the following requirements. A time extension request for the filing of the final plat must be made at least fifteen days prior to the filing deadline. A time extension request for the submittal of the construction plans must be made prior to the submittal deadline. Therefore, a time extension request for the filing of the final plat must be made no later than October 1, 2007 and a time extension request for the submittal of the construction plans must be made no later than October 16, 2007. If no construction plans will be required for the subdivision, our department must be notified in writing prior to the submittal deadline. A "good cause" reason for any time extension shall be stated in the request. Time extension requests which are not in compliance with all of these requirements, will result in the subdivision being deemed null and void.

If you have any questions regarding this letter, please call Ms. Lesli Otani of our Development Services Administration at 270-7252.

Sincerely

C:

MILTON M. ARAKAWA, A.I.C.P.

Director of Public Works

and Environmental Management

Enclosures: Preliminary Plat

Application For Tax Clearance

Ilo/eri S:\DSA\Subd\Reg3\3#2175-1.pre

Dept. of Finance, Real Property Tax Div. (unmarked preliminary plat only)

Dept. of Finance, Tax Map Div. (unmarked preliminary plat only)

Engineering Division w/preliminary plat

Wastewater Reclamation Division

Dept. of Water Supply

Dept. of Planning

Dept. of Parks and Recreation

DOT, Highways Division

State Dept. of Health

Maui Electric Company

CHARMAINE TAVARES Mayor

MILTON M. ARAKAWA, A.I.C.P. Director

MICHAEL M. MIYAMOTO Deputy Director



RALPH M. NAGAMINE, L.S., P.E. Development Services Administration

CARY YAMASHITA, P.E. Engineering Division

BRIAN HASHIRO, P.E. Highways Division

COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS

DEVELOPMENT SERVICES ADMINISTRATION

250 SOUTH HIGH STREET WAILUKU, MAUI, HAWAII 96793

January 28, 2010

RECENTED

May : 17 zmm

Mr. Darren Okimoto WARREN S. UNEMORI ENGINEERING, INC. 2145 Wells Street, Suite 403 Wailuku, Hawaii 96793

SUBJECT: KAONOULU LIGHT INDUSTRIAL

TMK: (2) 3-9-001:PORTION OF 016 SUBDIVISION FILE NO. 3.2175

Dear Mr. Okimoto:

Condition no. 6 of our October 16, 2006, preliminary approval letter has been revised with the following:

- 6. Requirements/comments from the Department of Planning:
 - a. The project is located within Flood Zone X. A flood development permit will be required if any work is done within any existing drainageway. For the designated 100-year flood inundation limits provide base flood elevations for the existing drainageway. Submit a hard copy and digital file of all hydrologic and hydraulic calculations for the 100 year inundation limits and base flood elevations for our files. A conditional letter of map revision from FEMA may be required to formalize the base flood elevations for the subject project.
 - b. Verify that all of the conditions of the conditional zoning (CIZ 9800013) for the property have been satisfied.
 - c. As stated in the Kihei-Makena Community plan, new communities should provide convenient pedestrian and bicycle access between residences and neighborhood commercial areas, parks and public facilities. Provide an explanation on how this subdivision complies with this objective.

Mr. Darren Okimoto

SUBJECT: KAONOULU LIGHT SUBDIVISION

SUBDIVISION FILE NO. 3.2175

January 28, 2010

Page 2 of 2

d. In an effort to encourage oral history and cultural identity, provide information regarding any cultural resources including historic vegetation located within or adjacent to the project area, as well as consult with individuals knowledgeable about such cultural resources and the history of the property. Provide a brief description of any proposed actions to mitigate potential adverse impacts on cultural resources including site avoidance, adequate buffer areas, and interpretation.

If you have any questions regarding this letter, please contact Francis Cerizo at 270-7253.

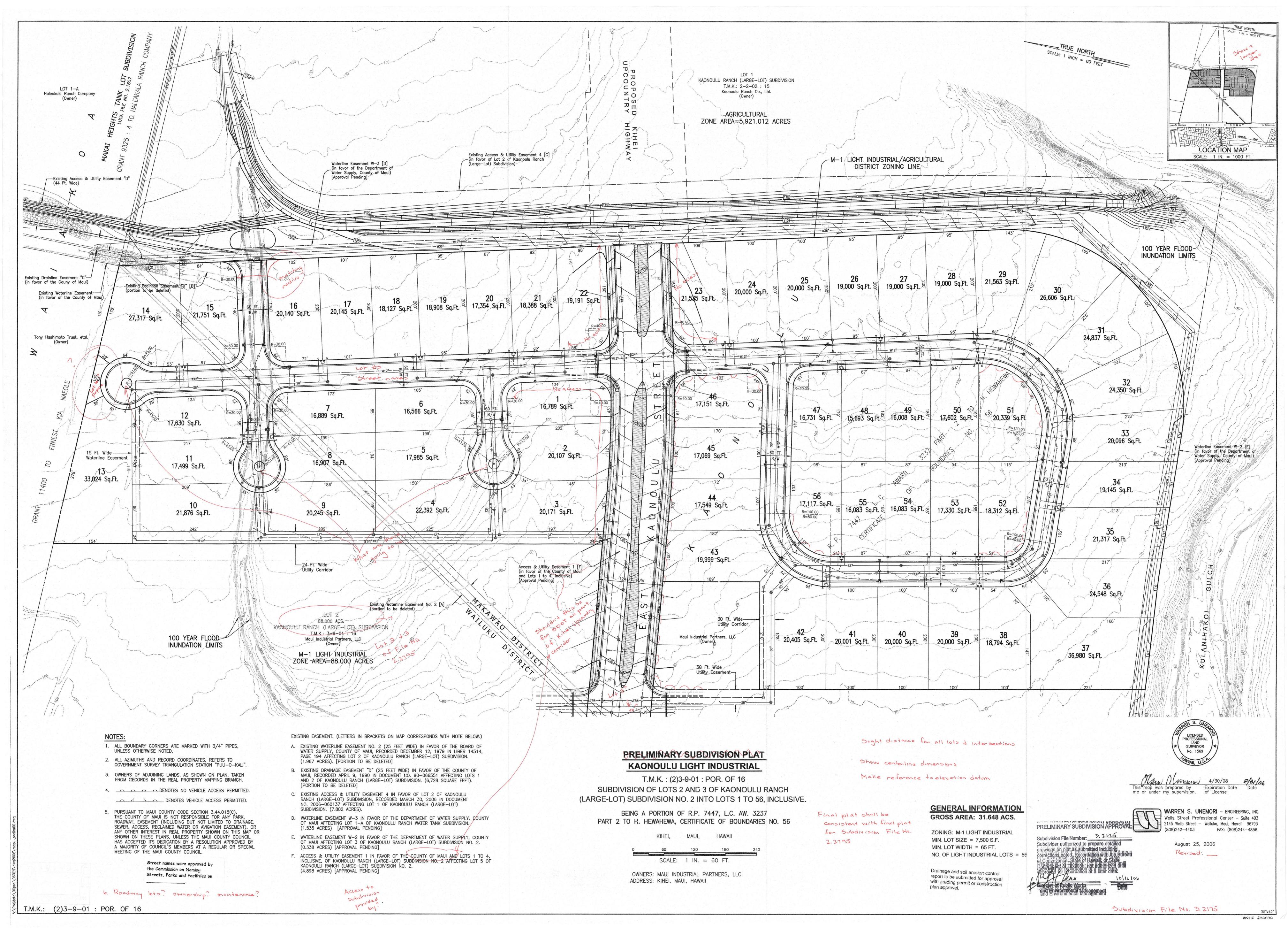
Sincerely

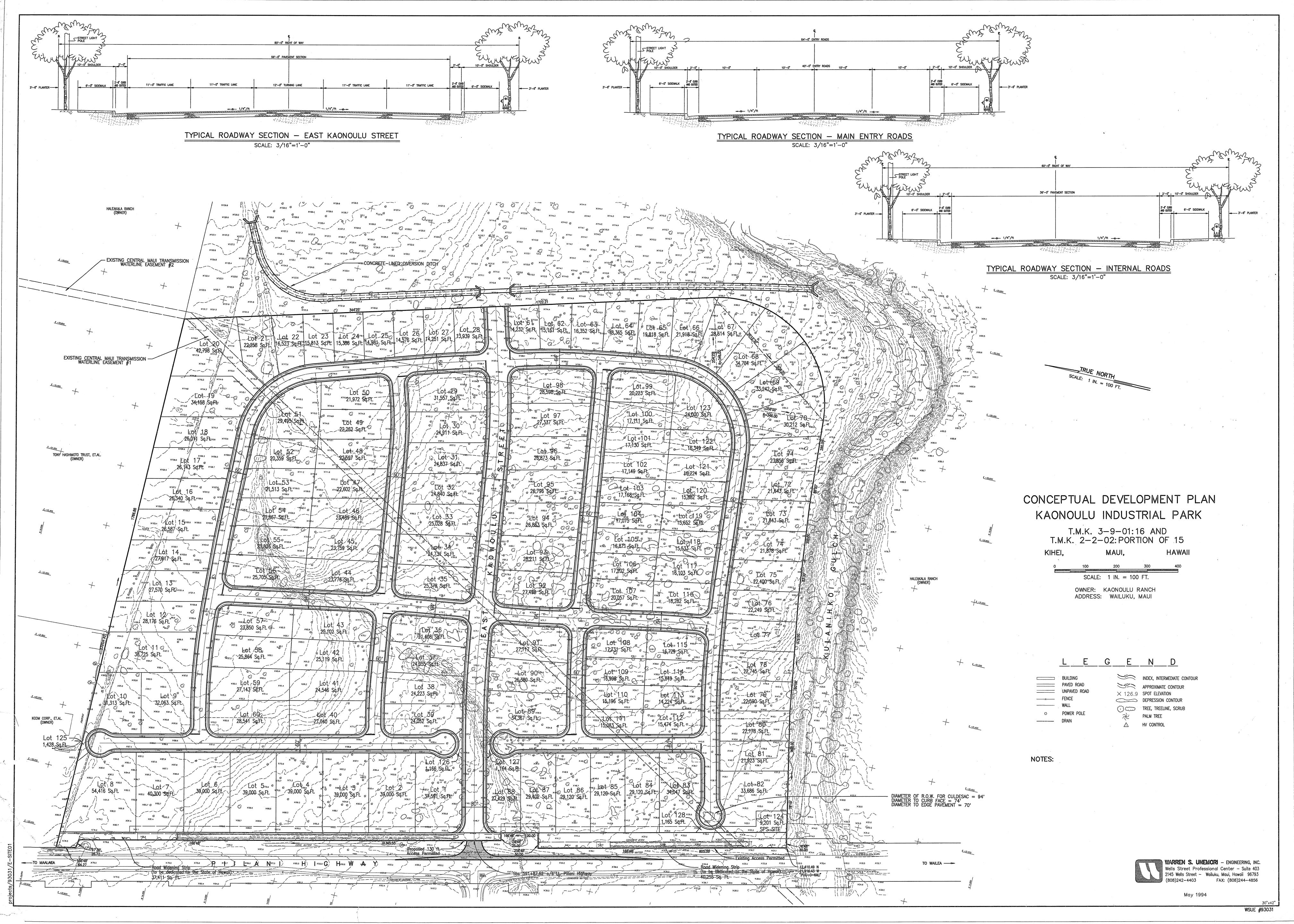
MILTON M. ARAKAWA, A.I.C.P.

Director of Public Works

gau/eri

S:\DSA\Subd\Reg3\3#2175-3.ltr







COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS

DEVELOPMENT SERVICES ADMINISTRATION

250 SOUTH HIGH STREET WAILUKU, MAUI, HAWAII 96793

September 11, 2018

Mr. Darren Okimoto, P.E. WARREN S. UNEMORI ENGINEERING, INC. 2145 Wells Street, Suite 403 Wailuku, Hawaii 96793

SUBJECT:

KAONOULU LIGHT INDUSTRIAL

TMK: (2) 3-9-001:169 & 170 SUBDIVISION FILE NO. 3.2175

Dear Mr. Okimoto:

This is in reply to your letter dated September 11, 2018, requesting a time extension for the subject subdivision.

Your request for a time extension has been granted and the new deadline for the filing of the final plat is October 17, 2019.

Be forewarned that future requests for time extensions must be made in writing and received by our department in accordance with the following:

A time extension request for the filing of the final plat must be made no later than October 17, 2019. In addition, a "good cause" reason for the time extension shall be stated in your request. Time extension requests which are not in compliance with all of these requirements, will result in the subdivision being deemed null and void.

If you have any questions regarding this letter, please contact Lesli Otani of our Development Services Administration at 270-7252.

Sincerely

DAVID C. GOODE

Director of Public Works

eri S:\DSA\Subd\Extensions\3#2175.doc

c: Dept. of Water Supply

BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of) Docket No. A94-706
KAONOULU RANCH to Amend the) DECLARATION OF
Agricultural Land Use District Boundary) KENNETH F. GIFT; EXHIBIT "J"
into the Urban Land Use District for)
Approximately 88 acres at Kaonoulu,)
Makawao-Wailuku, Maui, Hawai'i; Tax)
Map Key Nos. (2) 2-2-02: por. 15 and)
3-9-01:16)
)

DECLARATION OF KENNETH F. GIFT

- I, KENNETH F. GIFT, hereby declare that:
- 1. I am the Divisional Engineer for Hawaii for Goodfellow Bros. ("GBI").
- 2. This declaration is submitted in reference to the above-captioned case.
- 3. Unless otherwise indicated, all statements made herein are based on personal knowledge.
- 4. I am an individual over eighteen (18) years of age and under no legal or mental disability, and I am competent to testify, having personal knowledge of the matters set forth herein.
- 5. I am a graduate of Southern Methodist University, with a Bachelor of Arts degree in Social Studies.
- 6. In 2012, Piilani Promenade South, LLC and Piilani Promenade North, LLC (collectively, "Piilani") entered into two contracts with GBI for onsite and offsite construction work.
- 7. To my knowledge, the offsite construction work corresponded to the improvements required by the County of Maui pursuant to its final subdivision approval for the

Kaonoulu Ranch (Large-Lot Subdivision No. 2, Subdivision File No. 2.2795, and Kaonoulu Ranch – Water Tank Subdivision, Subdivision File No. 2.2995.

8. From June through September 2012 GBI purchased materials for the offsite construction work on behalf of Piilani. True and correct copies of the purchase orders are attached hereto as Exhibit "J." In summary, GBI purchased the following:

Purchase		
Order No.	Vendor	Brief Description
85052537	American Cast Iron	36" DIP, smaller size DIP and Misc.
85052922	Ferguson Enterprises, Inc.	36" BFV and Misc.
85056404	Ferguson Enterprises, Inc.	36" Adapters
85055165	Ferguson Enterprises, Inc.	Sewer Pipe, Fittings and Water Fittings
85055663	Geotech Solutions, Inc.	Geomat
85054180	Hawaii Concrete Products	CAP Pipe and Cap Manholes
85055245	Prinsco Inc.	HDPE Pipe
85054245	Walker Industries, Inc.	Pre-Cast Concrete Structures

- 9. Approximately 5 acres of the parcels owned by Piilani were cleared by stripping away brush, grass, and top soil. The materials listed above, as well as other miscellaneous materials needed for the improvements, are located on a portion of the cleared area. The materials have been located on the parcels since 2012, and remain located on site as of the date of this Declaration.
- 10. The total amount expended for materials for the offsite construction work was \$3,418,822.01. Piilani has reimbursed GBI for the purchased materials in the entirety.
- 11. A breakdown of GBI's costs through August 2018 totaling \$5,225,159.06, which Piilani has paid in full, is provided below:

Offsite Construction Work							
\$3,418,822.01	Materials	Includes purchase price,					
	shipping costs, markup and						
		taxes					
\$115,000.00	Mobilization	Costs to bring equipment to					
		the site including transport					
		from other islands and					
		Washington					

\$490,692.54	Startup costs incurred	Costs to plan, schedule and prepare for the work, bond and permit fees
\$581,159.94	Delay costs to March 2013	Equipment on standby, site maintenance, security, general expenses
\$60,750.31	Finance charges to March 2013	
\$282,474.26	Misc. services from March 2013 to August 2018	Includes inspection and protection of the purchased materials, dust fence replacement and removal as necessary

Onsite Construction Work								
\$255,860.00	BMP's	Primarily installation of the dust fence and silt fence						
\$20,400.00	Grading (for BMP's)	Clearing and grading for the dust fence and silt fence, and preparation of the materials laydown area						

I, KENNETH F. GIFT, declare under penalty of law that the foregoing is true and correct.

Executed this ninth day of January, 2019, at Kihei, Maui, Hawai'i.

KENNETH F GIFT

PURCHASE ORDER NO. 85052537 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 TAX RESALE NO 2

W20182340-01

WENATCHEE WA 98807

GOODFELLOW BROS INC

PO BOX 598

AMERICAN CAST IRON PIPE E COMPANY N D 0 R

PIILANI PROMENADE OS H P

INSTRUCTIONS AND CONDITIONS Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and

invoices. 3. Selier warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.

4. No charges for packing or crating will be accepted unless previously agreed upon.

5. Invoice promptly. Send three copies of invoice.

6. Discount period will be calculated from date of receipt of material, or receipt of invoice, whichever is later. 7. Invoice and correspondence to office only.

CO VENDOR NO ORDER PLACED WITH IN PERSON BY PHONE BY WIRE REQUESTED BY BUYER DIV PO DATE PAGE 50 0 28269 CORY 4/09/12 DENISE 1 REFERENCE PAYMENT TERMS FOB POINT PARTIAL SHIPMENTS SHIP VIA JOBSITE ACCEPTED

PO ITEM	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
1	6812 33.11000	М	36" MJ C153 DISHED CAP	04/10/12	2.00	EA	1130.4000	.000	2,260.80
2	6812 33.11000	M	TG 36 DI FIELDFLEX RING	04/10/12	3.00	EA	567.5000	.000	1,702.50
3	6812 33.11000	М	36" MJ C153 5.625 BEND	04/10/12	2.00	EA	3380.3900	.000	6,760.78
4	6812 33.11000	м	36" MJ C153 45 BEND	04/10/12	5.00	EA	4686.0000	.000	23,430.00
5	6812 33.11000	М	36" MJ SLEEVE C153 SOLID	04/10/12	3.00	EA	3561.6000	.000	10,684.80
6	6812 33.11000	М	36"X36"X12" MJ C153 TEE	04/10/12	1.00	EA	3100.0000	.000	3,100.00
7	6812 33.11000	М	JG 36 MEGALUG RETAINER	04/10/12	24.00	EA	1348.2000	.000	32,356.80
8	6812 33.11000	М	24" FST FSTPE PIPE	04/10/12	160.33	FT	76.6000	.000	12,281.28
9	6812 33.11000	М	18" PIPE	04/10/12	20.00	FT	58.5000	.000	1,170.00
10	6812 33.11000	М	16" PIPE	04/10/12	5832.13	FT	46.2000	.000	269,444.41
11	6812 33.11000	М	12" PIPE	04/10/12	4358.08	FT	31.8500	.000	138,804.85
12	6812 33.11000	М	6" FST FSTPE PIPE	04/10/12	582.42	FT	13.5800	.000	7,909.26
13	6812 33.11000	М	36" FR FRE PIPE	04/10/12	3334.23	FT	183.2000	.000	610,830.94
14	6812 33.11000	M	36" FR FRE	04/10/12	177.56 .00	FT	183.2000	.000	32,528.99
15	6812 33.11000	М	36" MJPE	04/10/12	1.00	EA	6320.8300	.000	6,320.83

PIILANI PROMENADE OS

GOODFELLOW BROS INC

WENATCHEE WA 98807

AMERICAN CAST IRON PIPE

PO BOX 598

COMPANY

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PURCHASE ORDER NO. 85052537 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1

W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and

Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.
 No charges for packing or crating will be accepted unless.

previously agreed upon.

5. Invoice promptly. Send three copies of invoice.

6. Discount period will be calculated from date of receipt of material, or receipt of invoice, whichever is later.

	133			0			material, or receipt of invoice, whichever is 7. invoice and correspondence to office only.	, idioi.
CO D	DIV	VENDOR NO	ORDER PLACED WITH	IN PERSON BY PHONE BY WIR	E PO DATE	REQUESTED BY	BUYER	PAGE
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		REFERENCE	PAYI	MENT TERMS	FOB POINT	PARTIAL SHIPMENTS	SHIP VIA	
					JOBSITE	ACCEPTED		

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ITEM	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
16	6812		36" FLG MJPE	04/10/12	2.00	EA	4138.8820	.000	8,277.76
	33.11000	M			.00		_		
17	6812		36" FR MJPE	04/10/12	19.73	FT	183.2000	.000	3,614.54
	33.11000	М			.00				
18	6812		36" FR MJPE PIPE	04/10/12	19.73	FT	183.2000	.000	3,614.54
	33.11000	М			.00				

DELIVER TO		ESTIMATED FREIGHT			
JOBSITE	ВУ	.00	TOTAL	->	\$1,175,093.08

PIILANI PROMENADE OS

PURCHASE ORDER NO. 85052922 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1

W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and
- invoices.
- Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act. 4. No charges for packing or crating will be accepted unless
- previously agreed upon. 5. Invoice promptly. Send three copies of invoice.
- 6. Discount period will be calculated from date of receipt of material, or receipt of invoice, whichever is later.

		94160	-0001			0				al, or receipt of invoice, whichever is la and correspondence to office only.	ater.
CO	DIV	VENDOR NO	ORDER PLA	CED WITH	IN PERSON BY PHONE	BY WIRE	PO DATE	REQUESTED BY		BUYER	PAGE
50	0	6003	COI	RY			4/11/12			DENISE	1
		REFERENCE		PAYME	NT TERMS		FOB POINT	PARTIAL SHIPME	TS	SHIP VIA	
9163	388233	3				JO	BSITE	ACCEPTED			

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*** SPECIAL INSTRUCTIONS ***

36" bfv model 2236/ig24 awwa class 250b flanged butterfly valves with lsa traveling nut actuator and handwheel with position indicator

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CA

GOODFELLOW BROS INC

WENATCHEE WA 98807

FERGUSON ENTERPRISES, INC

#3014

PO BOX 598

FILE #30129

P.O. BOX 60000

SAN FRANCISCO

PO	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
1	6812 33.11000	М	RDJ40036197512F DJ400 36X19.75 CLS FLG EPOX 316SS	04/12/12	2.00	EA	9657.3050	.500	19,314.61
2	6812 33.11000	М	DISFTJM36 3X36 FLGXTJ DI SPL	04/12/12	4.00	EA	2631.5800	.500	10,526.32
3	6812 33.11000	М	FFB4007 2 CC X MIP BALL CORP ST	04/12/12	4.00	EA	137.1760	.500	548.70
4	6812 33.11000	М	NE150FFGA36 36 NEOP 1/8 FF 150# GSKT	04/12/12	6.00	EA	80.0930	.500	480.56
5	6812 33.11000	М	TILBOX6T36BFV 36" 316 SS BFC BOLT SET W/BLUE NUTS	04/12/12	4.00	EA	3215.5200	.500	12,862.08
6	6812 33.11000	М	BP300SS31636 36" 300# 136SS BOLT KIT W/BLUE NUT	04/12/12	2.00	EA	3688.8000	.500	7,377.60
7	6812 33.11000	М	SP-JOBSPEC 36" BFV MODEL 2236/IG24	04/12/12	2.00	EA	13614.0000	.500	27,228.00

120/002

STATE

TOTAL SALES TAX

.5000

391.68 391.68

DELIVER TO		ESTIMATED FREIGHT		
JOBSITE	ВУ	.00	TOTAL ->	\$78,729.55

GOODFELLOW BROS INC PO BOX 598

WENATCHEE WA 98807

FERGUSON ENTERPRISES, INC

PURCHASE ORDER NO. 85056404 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and
- Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.

		H3014 N FILE D LOS A R CA	56809 NGELES -6809	HIPPTO	IILANI PROMENADE		invoices. 3. Seller warrants goods shipped produce with applicable provisions of fair labor at the control of	and standards act, e accepted unless invoice, date of receipt of ir is later.
CO	DIV	VENDOR NO	ORDER PLACED WITH	IN PERSON BY PHONE BY WIRE	PO DATE	REQUESTED BY	BUYER	PAGE
50	0	6003	CORY		9/11/12		ANDI	1
		REFERENCE	P	AYMENT TERMS	FOB POINT	PARTIAL SHIPMENTS	SHIP VIA	
9163	88233	3		Jo	OBSITE	ACCEPTED		

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PO	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
1	6812 33.11000	М	36" L301 SPIGOT X MJS ADAPTER	09/12/12	1.00	EA	10853.3300	.500	10,853.33
2	6812 33.11000	М	36" L301 BELLXMJS ADAPTER	09/12/12	1.00 .00	EA	10853.3300	.500	10,853.33
3	6812 33.11000	М	FREIGHT	09/12/12	1.00	EA	1500.0000	.500	1,500.00

120/002

STATE TOTAL SALES TAX

.5000 116.04 116.04

DELIVER TO ESTIMATED FREIGHT JOBSITE BY .00 TOTAL -> \$23,322.70

GOODFELLOW BROS INC

WENATCHEE WA 98807

PO BOX 598

PURCHASE ORDER NO. 85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1

W20182340-01 TAX RESALE NO 2

ACCEPTED

INSTRUCTIONS AND CONDITIONS 1. Return Acknowledgment promptly upon receipt of order.

- 3. Seller warrants goods shipped produced in accordance
- 4. No charges for pecking or crating will be accepted unless
- 6. Discount period will be calculated from date of receipt of

2. Place Order Number on all packages, bills of lading and FERGUSON ENTERPRISES, INC PIILANI PROMENADE OS involces. E FILE #30129 #3014 with applicable provisions of fair labor and standards act. P.O. BOX 60000 P previously agreed upon.
5. Invoice promptly. Send three copies of invoice. SAN FRANCISCO 0 R CA material, or receipt of invoice, whichever is later. 0 94160-0001 7. Invoice and correspondence to office only. CO VENDOR NO IN PERSON BY PHONE BY WIRE DIV ORDER PLACED WITH PO DATE REQUESTED BY BUYER PAGE 50 0 6003 KYLE N 7/25/12 DENISE REFERENCE PAYMENT TERMS **FOB POINT** PARTIAL SHIPMENTS SHIP VIA 9163882333

JOBSITE

PO	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
1	6812 31.11000	M	SEWER 8X20 SDR35 PVC GJ SWR PIPE	07/26/12	1340.00	FT	4.5160	.500	6,051.44
2	6812 31.11000	М	SEWER 8X20 SDR26 HW PVC GJ SWR PIPE	07/26/12	1700.00	FT	5.8820	.500	9,999.40
3	6812 31.11000	М	SEWER 10X20 SDR26 HW PVC GJ SWR PIPE	07/26/12	340.00	FT	9.2240	.500	3,136.16
4	6812 31.11000	M	SEWER 10 PVC HW SWR M/HOLE ADPT	07/26/12	1.00	EA	91.7040	.500	91.70
10	6812 33.11000	М	6" MJ C153 45 BEND W/ACCS	07/26/12	16.00	EA	135.4690	.500	2,167.50
11	6812 33.11000	М	SPC920112 12" #92-01 DCDS KCX X101 PRV&PSV	07/26/12	1.00	EA	12926.0800	.500	12,926.08
12	6812 33.11000	М	CF6102120LHW 12 FLG RW NRS OL GATE VLV W/H/WHL	07/26/12	2.00	EA	1781.3260	.500	3,562.65
13	6812 33.11000	М	RFCA50113551201 CVR FCA501-13.55 SET SSFE EPOX	07/26/12	1.00	EA	1316.7420	.500	1,316.74
14	6812 33.11000	М	SPDISFTJ1234 12"X34" FLG X BE DI SPOOL	07/26/12	1.00	EA	600.0000	.500	600.00
15	6812 33.11000	М	SPDISTJPE1242 12"X42" BEXPE DI SPOOL	07/26/12	1.00	EA	625.0000	.500	625.00
16	6812 33.11000	M	UFTG12 12 FLG TYTE GSKT	07/26/12	4.00	EA	9.4150	.500	37.66
17	6812 33.11000	М	T1LBOX6T1012 10-12 3 16 SS BOLT SET W/BLUE NUTS	07/26/12	4.00	EA	80.0480	.500	320.19
18	6812 33.11000	М	PTMJ912 12" MJ C153 90 BEND W/ACCS	07/26/12	5.00	EA	343.4200	.500	1,717.10
19	6812 33.11000	М	PTMJ412 12" MJ C153 45 BEND W/ACCS	07/26/12	21.00	EA	308.1210	.500	6,470.54

PURCHASE ORDER NO. 85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and
- Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.
- 4. No charges for packing or crating will be accepted unless previously agreed upon.
- Invoice promptly. Send three copies of invoice.
 Discount period will be calculated from date of receipt of material, or receipt of invoice, whichever is later,
- 7. invoice and correspondence to office only.

FERGUSON ENTERPRISES, INC PIILANI PROMENADE OS E H FILE #30129 #3014 P.O. BOX 60000 P SAN FRANCISCO 0 R CA 94160-0001 0

GOODFELLOW BROS INC

WENATCHEE WA 98807

PO BOX 598

CO	DIV VENDOR NO	ORI	DER PLACED WITH	IN PERSON BY PHONE B	Y WIRE PO I	DATE	REQUESTED BY		BL	JYER	PAGE
50	0 6003		KYLE N		7/2	5/12			DEI	NISE	2
	REFERENCE		PA	YMENT TERMS		OB POINT	PARTIAL SI	HIPMENT:	S	SHIP VI	IA
9163	3882333				JOBSITE		ACCEPTED				
	JOB / SUB JOB COST DISTRIBUTION	C	P	ART NUMBER AND DESCRIPTION	N	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
ITEM	COST DISTRIBUTION 6812	C	PTMJ212		N		QUANTITY 4.00	U/M EA	UNIT PRICE 305.6300		
	COST DISTRIBUTION	C T	The state of the s		N .	REQUIRED		0.000		TAX RATE	
PO ITEM 20	COST DISTRIBUTION 6812	C T	PTMJ212		N	REQUIRED	4.00	0.000		TAX RATE	

PO	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
20	6812 33.11000	М	PTMJ212 12" MJ C153 22-1/2 BEND W/ACCS	07/26/12	4.00	EA	305.6300	.500	1,222.52
21	6812 33.11000	М	PTMJ112 12" MJ C153 11-1/4 BEND W/ACCS	07/26/12	2.00	EA	278.7560	.500	557.51
22	6812 33.11000	М	PTMJSCAP12 12" MJ C153 SOLID CAP W/ACCS	07/26/12	4.00	EA	152.3220	.500	609.29
23	6812 33.11000	М	PTMJT12 12" MJ C153 TEE W/ACCS	07/26/12	1.00	EA	484.5520	.500	484.55
24	6812 33.11000	м	PT12MJGV 12" MJRW OL GATE VLV W/ACCS	07/26/12	10.00	EA	1744.9430	.500	17,449.43
25	6812 33.11000	М	PTMJS12 12X12 MJ C153 SLV W/ACCS	07/26/12	6.00	EA	300.1590	.500	1,800.95
26	6812 33.11000	М	PTMJR1612 16"X12" MJ C153 REDUCER W/ACCS	07/26/12	1.00	EA	430.6750	.500	430.68
27	6812 33.11000	М	PT16MJGV 16 MJRW GATE VALVE OL W/ACCS	07/26/12	11.00	EA	5556.6990	.500	61,123.69
28	6812 33.11000	М	PTMJS16 16 MJ C153 SLV W/ACCS	07/26/12	6.00	EA	551.0380	.500	3,306.23
29	6812 33.11000	М	PTMJT1612 16X12 MJ C153 TEE W/ACCS	07/26/12	2.00	EA	850.6750	.500	1,701.35
30	6812 33.11000	М	PTMJ416 16" MJ C153 45 BEND W/ACCS	07/26/12	3.00	EA	583.1310	.500	1,749.39
31	6812 33.11000	М	PTMJ116 16" MJ C153 11-1/4 BEND W/ACCS	07/26/12	3.00	EA	600.7970	.500	1,802.39
32	6812 33.11000	М	PTMJ216 16" MJ C153 22-1/2 BEND W/ACCS	07/26/12	3.00	EA	594.2370	.500	1,782.71
33	6812 33.11000	M	MJSP18 18 MJ C153 SLD PLUG	07/26/12	1.00	EA	326.7170	.500	326.72
34	6812 33.11000	М	MJTLA1812 18X12 MJ C153 TEE L/A	07/26/12	1.00	EA	757.7570	.500	757.76
35	6812 33.11000	M	FBG18 18 FB MJ C110 GLAND	07/26/12	2.00	EA	124.6520	.500	249.30
36	6812	_M	MJGA18	07/26/12	2.00	EA	15.0680	.500	30.14

PURCHASE ORDER NO.

85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and
- involces.
- Selier warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.
 No charges for packing or crating will be accepted unless
- previously agreed upon.

 5. Invoice promptly. Send three copies of invoice.

 6. Discount period will be calculated from date of receipt of material, or receipt of invoice, whichever is later.
- 7. Invoice and correspondence to office only.

FERGUSON ENTERPRISES, INC PIILANI PROMENADE OS E H FILE #30129 #3014 P.O. BOX 60000 P SAN FRANCISCO R CA 0 94160-0001

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CO	D	DIV	VENDOR NO	ORDER PLACED WITH	IN PERSON BY PHONE BY	WIRE PO DATE	REQUESTED BY	BUYER	PAGE
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9163	3882	2333	3			JOBSITE	ACCEPTED		

PO	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
	33.11000		18 MJ GSKT		.00				
37	6812 33.11000	М	BTCNFR 3/4x4-1/2 TEXLON COAT T-BOLT	07/26/12	24.00	EA	3.1920	.500	76.61
38	6812 33.11000	М	FBG12 12 FB MJ C110 GLAND	07/26/12	1.00	EA	40.5270	.500	40.53
39	6812 33.11000	М	MJGA12 12 MJ GASKET	07/26/12	1.00	EA	6.3540	.500	6.35
40	6812 33.11000	M	T2LBXT9T1012 10-12 MJ T-BOLT BX SET CORTEN BLUE	07/26/12	1.00	EA	22.3520	.500	22.35
41	6812 33.11000	М	SPC2218 18" 250B BFC MODEL# 2218/1E24A.3XF	07/26/12	2.00	EA	3920.5600	.500	7,841.12
42	6812 33.11000	M	SPRDJ400181650 DJ400-18X16.50 CLS FLG EPOX 316SS	07/26/12	2.00	EA	3228.6500	.500	6,457.30
43	6812 33.11000	м	SPDISF250BE1848 18"X48" 250# FLG X BE DI SPOOL	07/26/12	4.00	EA	2271.4280	.500	9,085.71
44	6812 33.11000	М	FFB16006 1-1/2 CC X FIP BALL CORP ST	07/26/12	4.00	EA	91.2660	.500	365.06
45	6812 33.11000	М	SPG2X12LIFTPORT 2"X12" GALV NIPPLE W/CAP TOE	07/26/12	8.00	EA	32.5000	.500	260.00
46	6812 33.11000	М	SPGEYEBOLTWPLAT 1 EYE BOLT W/W/4X6 PLATE WASH&NUT	07/26/12	2.00	EA	71.2150	.500	142.43
47	6812 33.11000	м	0146020 6X6 CI MON BDY	07/26/12	2.00	EA	49.3630	.500	98.73
48	6812 33.11000	М	0146040 7 CI MON CVR WIR	07/26/12	2.00	EA	13.6110	.500	27.22
49	6812 33.11000	м	011244ONSET 22 CI M/HOLE RNG & CVR WTR	07/26/12	4.00	EA	267.0450	.500	1,068.18
50	6812 33.11000	M	SPT3LGF8C/18 18" 250# FF GSKT 1/8" CI RUBB	07/26/12	6.00	EA	36.2400	.500	217.44

GOODFELLOW BROS INC

PO BOX 598

WENATCHEE WA 98807

GOODFELLOW BROS INC PO BOX 598

WENATCHEE WA 98807

PURCHASE ORDER NO. 85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and
- Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.
- 4. No charges for packing or crating will be accepted unless previously agreed upon.

 5. Invoice promptly. Send three copies of invoice.

 6. Discount period will be calculated from date of receipt of
- material, or receipt of invoice, whichever is later.
- 7. Invoice and correspondence to office only.

FERGUSON ENTERPRISES, INC PIILANI PROMENADE OS E H FILE #30129 #3014 P.O. BOX 60000 P SAN FRANCISCO CA 0 94160-0001

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9163882333		JOBSITE	ACCEPTED		

PO ITEM	JOB / SUB JOB COST DISTRIBUTION	CT	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
51	6812 33.11000	М	SPT3LBFV6T/18 18" 250# BFV BOX SET T316 W/BLUENUT	07/26/12	4.00	EA	582.1330	.500	2,328.53
52	6812 33.11000	м	SPT3LBOX6T/18 18" 250# BOX SET T316 W/BLUNUT	07/26/12	2.00	EA	633.3350	.500	1,266.67
53	6812 33.11000	М	MJSLA18 18X15 MJ C153 LONG SLV L/A	07/26/12	2.00	EA	392.6210	.500	785.24
54	6812 33.11000	М	FBG18 18 FB MJ C110 GLAND	07/26/12	4.00	EA	124.6520	.500	498.61
55	6812 33.11000	м	MJGA18 18 MJ GSKT	07/26/12	4.00	EA	15.0680	.500	60.27
56	6812 33.11000	М	BTCNFR 3/4X4-1/2 TEXLON COAT-BOLT	07/26/12	48.00	EA	3.1920	.500	153.22
57	6812 33.11000	М	MJRLA2416 * 24X16 MJ C153 RED L/A	07/26/12	1.00	EA	606.4700	.500	606.47
58	6812 33.11000	М	FBG24 24 FB MJ C110 GLAND	07/26/12	1.00	EA	211.7250	.500	211.73
59	6812 33.11000	М	MJGA24 24 MJ GSKT	07/26/12	1.00	EA	16.8860	.500	16.89
60	6812 33.11000	М	SPBTCNFS 3/4X5 TEXLON COAR BOLT W/NUT	07/26/12	16.00	EA	6.5000	.500	104.00
61	6812 33.11000	М	FBG16 16 FB MJ C110 GLAND	07/26/12	1.00	EA	83.2300	.500	83.23
62	6812 33.11000	M	MJGA16 16 MJ GSKT	07/26/12	1.00	EA	10.2800	.500	10.28
63	6812 33.11000	М	BTCNFR 3/4X4-1/2 TEXLON COAT BOLT	07/26/12	12.00	EA	3.1920	.500	38.30
64	6812 33.11000	М	MJTLA2418 24X18 MJ C153 TEE L/A	07/26/12	1.00	EA	1313.3080	.500	1,313.31
65	6812 33.11000	М	FBG24 24 FB MJ C110 GLAND	07/26/12	2.00	EA	211.7300	.500	423.46
66	6812 33.11000	M	MJGA24 24 MJ GSKT	07/26/12	2.00	EA	16.8860	.500	33.77

PURCHASE ORDER NO. 85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01 TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and
- 3. Seller warrants goods shipped produced in accordance
- with applicable provisions of fair labor and standards act.

 4. No charges for packing or crating will be accepted unless
- previously agreed upon.

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- 5. Invoice promptly. Send three copies of Invoice.
- Discount period will be calculated from date of receipt of material, or receipt of invoice, whichever is later.
- 7. Invoice and correspondence to office only.

FERGUSON ENTERPRISES, INC
FILE #30129 #3014
P.O. BOX 60000
SAN FRANCISCO
CA
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FERGUSON ENTERPRISES, INC
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GOODFELLOW BROS INC

WENATCHEE WA 98807

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M 24" 250# BFV BOX SET T316

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PO BOX 598

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9163	388233	3	****			JO	BSITE		ACCEPTED				
PO ITEM	C	JOB / SUB JOB OST DISTRIBUTION	C		PART NUMBER AND DESCRIPTION	ON	Manager 1	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
67	6812 33.110	000	м	SPBTCNFS 3/4X5 TEXLON CC	PAT T-BOLT W/NUT			07/26/12	16.00 .00	EA	6.5000	.500	104.00
68	6812 33.110	000	м	FBG18 18 FB MJ C110 G	GLAND			07/26/12	1.00	EA	124.6520	.500	124.65
69	6812 33.110	000	м	MJGA18 18 MJ GSKT				07/26/12	1.00	EA	15.0680	.500	15.07
70	6812 33.110	000	М	BTCNFR 3/4X4-1/2 TEXLO	N COAT T-BOLT			07/26/12	12.00	EA	3.1920	.500	38.30
71	6812 33.110	000	М	SPV2224 24" 250B BFV MODEL#2224/1F24	A.3XF			07/26/12	2.00	EA	6744.1850	.500	13,488.37
72	6812 33.110	000	М	SPRDJ400241725 DJ400-24X17.25 316SS	CLS FLG EPOX			07/26/12	2.00	EA	4916.1900	.500	9,832.38
73	6812 33.110	000	М	SPDISF250DE2448 24X48 250# FLGX				07/26/12	4.00	EA	2666.6680	.500	10,666.67
74	6812 33.110	000	М	FFB16007 2 CC X FIP BALL	CORP ST			07/26/12	4.00	EA	147.3960	.500	589.58
75	6812 33.110	00	М	SPG2X12LIFTPORT 2"X12" GALV NIP				07/26/12	8.00	EA	32.5000	.500	260.00
76	6812 33.110	00	M	SPGEYEBOLTPLATE 1 EYE BOLT W/1/				07/26/12	2.00	EA	71.2150	.500	142.43

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PURCHASE ORDER NO. 85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 TAX RESALE NO 2

W20182340-01

INSTRUCTIONS AND CONDITIONS

- 1. Return Acknowledgment promptly upon receipt of order. 2. Place Order Number on all packages, bills of lading and invoices.
- Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.
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 5. Invoice promptly. Send three copies of invoice.
- 6. Discount period will be calculated from date of receipt of material, or receipt of invoice, whichever is later.
- 7. Involce and correspondence to office only.

FERGUSON ENTERPRISES, INC PIILANI PROMENADE OS FILE #30129 #3014 P.O. BOX 60000 P SAN FRANCISCO 0 CA 0 94160-0001

GOODFELLOW BROS INC

WENATCHEE WA 98807

PO BOX 598

			CED WITH IN PERSON	BY PHONE BY WIRE	PO DATE	REQUESTED BY	BUY	YER PA
50 0		KYLE	C N		7/25/12		DEN	ISE 6
REFERENCE			PAYMENT TERMS		FOB POINT	PARTIAL SHIPM	ENTS	SHIP VIA
91638823	333				BSITE	ACCEPTED		

PO ITEM	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
			W/BLUENUT						
82	6812 33.11000	М	SPT3LBOX6T/24 24" 250# BOLXSET T316 W/BLUNUT	07/26/12	2.00	EA	1080.6650	.500	2,161.33
83	6812 33.11000	М	MJ9LA24 24 MJC153 90 BEND L/A	07/26/12	4.00	EA	1133.8310	.500	4,535.32
84	6812 33.11000	М	FBG24 24 FB MJ C110 GLAND	07/26/12	8.00	EA	211.7250	.500	1,693.80
85	6812 33.11000	М	MJGA24 24 MJ GSKT	07/26/12	8.00	EA	16.8860	.500	135.09
86	6812 33.11000	М	SPBTCNFS 3/4X5 TEXLON COAT BOLT W/NUT	07/26/12	128.00	EA	6.5000	.500	832.00
87	6812 33.11000	М	MJ4LA24 24 MJ C153 45 BEND L/A	07/26/12	1.00	EA	764.6020	.500	764.60
88	6812 33.11000	М	FBG24 24 FB MJ C110 GLAND	07/26/12	2.00	EA	211.7250	.500	423.45
89	6812 33.11000	М	MJGA24 24 MJ GSKT	07/26/12	2.00	EA	16.8860	.500	33.77
90	6812 33.11000	M	SPBTCNFS 3/4X5 TEXLON COAT BOLT W/NUT	07/26/12	32.00	EA	6.5000	.500	208.00
91	6812 33.11000	М	MJRLA2412 24X12 MJ C153 RED LA	07/26/12	1.00	EA	618.3070	.500	618.31
92	6812 33.11000	М	FBG24 24 FBMJ C110 GLAND	07/26/12	1.00	EA	211.7250	.500	211.73
93	6812 33.11000	М	MJGA24 24 MJ GSKT	07/26/12	1.00	EA	16.8660	.500	16.87
94	6812 33.11000	М	SPBTCNFS 3/4X5 TEXLON COAT T-BOLT W/NUT	07/26/12	16.00	EA	6.5000	.500	104.00
95	6812 33.11000	М	FBG12 12 FB MJ C110 GLAND	07/26/12	1.00	EA	36.0010	. 500	36.00
96	6812 33.11000	М	MJGA12 12 MJ GSKT	07/26/12	1.00	EA	6.3540	.500	6.35
97	6812 33.11000	М	T2LBXT9T1012 10-12 MJ T-BOLT BX SET CORTEN	07/26/12	1.00	EA	22.3550	.500	22.36

PURCHASE ORDER NO. 85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01 TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- 1. Return Acknowledgment promptly upon receipt of order. 2. Place Order Number on all packages, bills of lading and
- 3. Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.
- 4. No charges for packing or crating will be accepted unless previously agreed upon.
- 5. Involce promptly. Send three copies of invoice.
- 6. Discount period will be calculated from date of receipt of material, or receipt of invoice, whichever is later.

FERGUSON ENTERPRISES, INC PIILANI PROMENADE OS FILE #30129 #3014 P.O. BOX 60000 SAN FRANCISCO 0 CA R 0 94160-0001

GOODFELLOW BROS INC

WENATCHEE WA 98807

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12X6 MJXFLG C153 TEE W/ACCS

6 MJXFLG RW GATE VLV OL W/ACCS

16"X6" MJXFLG C153 TEE W/ACCS

M 6 MJXFLG RW GATE VLV OL W/ACCS

16"X6" MJXFLG C153 TEE W/ACCS

6 MJXFLG RW GATE VLV OL W/ACCS

M 6"X2" MJ C153 TAP CAP W/ACCS

PO BOX 598

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		REFERENCE		P	AYMENT TERMS		FOB POI	NT	PARTIAL S	HIPMENT:	S	A	
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РО		JOB / SUB JOB	С		PART NUMBER AND DESCRIPTION	ON		DATE	QUANTITY	U/M	UNIT PRICE	SALES	AMOUNT
ITEM	CC	OST DISTRIBUTION	T					REQUIRED	GOARTITI	O/III	OWNTRIGOE	TAX RATE	AMOUNT
98	6812 33.110	00	М	BLUE MJLSLA24 24X15 MJ C153 L	ONG SLV L/A			07/26/12	2.00	EA	672.6610	.500	1,345.32
99	6812 33.110	00	М	FBG24 24 FB MJ C110 G	LAND			07/26/12	4.00	EA	211.7250	.500	846.90
100	6812 33.110	00	М	MJGA24 24 MJ GSKT				07/26/12	4.00	EA	16.8860	.500	67.54
101	6812 33.110	00	M	SPBTCNFS 3/4X5 TEXLON BOX	AT T-BOLT W/NUT			07/26/12	64.00	EA	6.5000	.500	416.00
102	6812 33.110	00	м	16"X3/4" ARV AS:	SEMBLY			07/26/12	1.00	EA	1007.5600	.500	1,007.56
103	6812 33.110	00	М	12"X3/4" ARV ASS	SEMBLY			07/26/12	1.00	EA	2350.9400	.500	2,350.94
104	6812 33.110	00	М	6"X3/4" ARV ASSI	EMBLY			07/26/12	1.00	EA	1343.4000	.500	1,343.40

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PURCHASE ORDER NO. 85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- 1. Return Acknowledgment promptly upon receipt of order. 2. Place Order Number on all packages, bills of lading and
- Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.
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 5. involce promptly. Send three copies of invoice.

 6. Discount period will be calculated from date of receipt of
- material, or receipt of invoice, whichever is later.

FERGUSON ENTERPRISES, INC PIILANI PROMENADE OS H FILE #30129 #3014 P.O. BOX 60000 P SAN FRANCISCO 0 R 0 94160-0001

GOODFELLOW BROS INC

WENATCHEE WA 98807

PO BOX 598

	31100 000	-		4.3						7. Invoice and corresp	andence to office	only.
CO	DIV VENDOR NO	OR	DER PLACED WITH	IN PERSON BY PHONE B	BY WIRE	PO DATE		REQUESTED BY		BU	UYER	PAGE
50	0 0 6003 KYLE N					7/25/12				DEI	8	
	REFERENCE PAY		PAYMI	ENT TERMS	ERMS FOB POINT		TV	PARTIAL S	S	SHIP VIA		
9163	3882333				JOI	BSITE		ACCEPTED				
PO	JOB / SUB JOB COST DISTRIBUTION	C	PART	NUMBER AND DESCRIPTIO	N		DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
		C T	PTM2PCO 2" MAUI CLEANOUT A	Age to the second second	DN			QUANTITY 1.00 .00	U/M EA	UNIT PRICE 381.5230		AMOUNT 381.52

ITEM	COST DISTRIBUTION	T	ANT NOMBER AND DECOME HOW	REQUIRED	QUANTITY	U/M	UNIT PRICE	TAX RATE	AMOUNT
114	6812 33.11000	М	PTM2PCO	07/26/12	1.00	EA	381.5230	.500	381.52
115	6812 33.11000	М	PTMJFT12U	07/26/12	.00 3.00 .00	EA	388.2630	.500	1,164.79
116	6812 33.11000	М	PT6MJFGV 6 MJXFLG RW GATE VLV OL W/ACCS	07/26/12	3.00	EA	595.0300	.500	1,785.0
L17	6812 33.11000	М	PTMJTCAPUK 6"X2" MJ C153 TAP CAP W/ACCS	07/26/12	3.00	EA	140.3190	.500	420.9
L18	6812 33.11000	М	PTM2PCO 2" MAUI CLEANOUT ASSY	07/26/12	3.00	EA	381.5230	.500	1,144.5
119	6812 33.11000	М	PTMJSCAP12 12" MJ C153 SOLID CAP W/ACCS	07/26/12	3.00	EA	152.3230	.500	456.9
120	6812 33.11000	М	PTMJFT16 16" MJXF C153 TEE W/ACCS	07/26/12	1.00	EA	1245.8360	.500	1,245.8
121	6812 33.11000	м	SPCF6106LA16OL 16 FLGXMJ RW NRS OL GATE VLV L/A	07/26/12	1.00	EA	5293.0750	.500	5,293.0
122	6812 33.11000	м	FBG16 16 FBMJ C110 GLAND	07/26/12	1.00	EA	83.2000	.500	83.20
123	6812 33.11000	м	MJGA16 16 MJ GSKT	07/26/12	1.00	EA	10.2780	.500	10.2
L24	6812 33.11000	м	BCTNFR 3/4X4-1/2 TEXLON COAT T-BOLT	07/26/12	12.00	EA	3.1920	.500	38.3
.25	6812 33.11000	м	UFTG16 16 FLG TYTE GSKT	07/26/12	1.00	EA	20.0000	.500	20.0
L26	6812 33.11000	м	MJRLA16U . 16X6 MJ C153 RED L/A	07/26/12	1.00	EA	266.0800	.500	266.08
L27	6812 33.11000	М	FBG16 16 FB MJ C110 GLAND	07/26/12	1.00	EA	83.2300	.500	83.23
L28	6812 33.11000	М	MJGA16 16 MJ GSKT	07/26/12	1.00	EA	10.2780	.500	10.28
129	6812 33.11000	М	BCTNFR 3/4X4-1/2 TEXLON COAT BOLT	07/26/12	12.00	EA	3.1920	.500	38.30

PURCHASE ORDER NO. 85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, blils of lading and
- involces.

 3. Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.

 4. No charges for packing or crating will be accepted unless
- previously agreed upon.

 5. Invoice promptly. Send three copies of invoice.

 6. Discount period will be calculated from date of receipt of
- material, or receipt of invoice, whichever is later.
- 7. invoice and correspondence to office only.

FERGUSON ENTERPRISES, INC PIILANI PROMENADE OS H FILE #30129 #3014 P.O. BOX 60000 P SAN FRANCISCO R CA 0 94160-0001

GOODFELLOW BROS INC

WENATCHEE WA 98807

PO BOX 598

CO DIV			The same and the s			
	VENDOR NO ORDER PLACED WIT	H IN PERSON BY PHONE E	BY WIRE PO DATE	REQUESTED BY	BUYER	PAGE
50 0	6003 KYLE N		7/25/12		DENISE	9
	REFERENCE	PAYMENT TERMS	FOB POINT	PARTIAL SHIPMENTS	SHIP VIA	
9163882333			JOBSITE	ACCEPTED		

PO ITEM	JOB / SUB JOB COST DISTRIBUTION	CT	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
130	6812 33.11000	М	FBGU 6 FB MJ C110 GLAND	07/26/12	1.00	EA	16.8800	.500	16.88
131	6812 33.11000	М	MJGAU 6 MJ GSKT	07/26/12	1.00	EA	3.1700	.500	3.17
132	6812 33.11000	М	T2LBXT9T68 6-8 MJ T-BOLT DX SET CORTEN BL	07/26/12	1.00	EA	20.2700	.500	20.27
133	6812 33.11000	М	PTMFH48	07/26/12	1.00	EA	1203.4400	.500	1,203.44
134	6812 33.11000	М	DISFPE1224 12X24 FLGXPE DI SPL	07/26/12	3.00	EA	243.7500	.500	731.25
135	6812 33.11000	М	F912 12 DI 125# C110 FLG 90 BEND	07/26/12	5.00	EA	384.9640	.500	1,924.82
136	6812 33.11000	М	DISFPE1260 12X60 FLGXPE DI SPL	07/26/12	3.00	EA	450.0000	.500	1,350.00
137	6812 33.11000	М	DISF1242 12X42 FLGXFLG DI SPL	07/26/12	2.00	EA	437.5000	.500	875.00
138	6812 33.11000	М	SPDISF1266 12"X66" FLGXFLG DI SPL	07/26/12	1.00	EA	562.5000	.500	562.50
139	6812 33.11000	М	F912X 12X8 DI 125# C110 FLG 90 BEND	07/26/12	2.00	EA	368.3580	.500	736.72
140	6812 33.11000	M	FT12 12 DI 125# C110 FLG TEE	07/26/12	4.00	EA	619.8840	.500	2,479.54
141	6812 33.11000	М	CF6102XOLHW 8 FLG RW NRS OL GATE VLV W/H/WHL	07/26/12	4.00	EA	975.4760	.500	3,901.90
142	6812 33.11000	М	RFCA50109060801 CVR FCA501-9.06 SET SSFE EPOX	07/26/12	2.00	EA	465.0690	.500	930.14
143	6812 33.11000	М	DISFPEX30 8X30 FLGXPE DI SPL	07/26/12	2.00	EA	168.7500	.500	337.50
144	6812 33.11000	М	SPC9001X 8" #90-01 BCDSY KCOX X101 PRV	07/26/12	1.00	EA	8553.6600	.500	8,553.66
145	6812 33.11000	М	SPC4301X 8" #4301 BCDSY KCOX X105L2W	07/26/12	1.00	EA	10329.6600	.500	10,329.66

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GOODFELLOW BROS INC PO BOX 598

FERGUSON ENTERPRISES, INC

#3014

WENATCHEE WA 98807

FILE #30129

P.O. BOX 60000

SAN FRANCISCO

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** CHANGE ORDER **

PURCHASE ORDER NO. 85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and
- invoices. Seller warrants goods shipped produced in accordance with applicable provisions of fair labor, and standards act.
- 4. No charges for packing or crating will be accepted unless previously agreed upon.

 5. Invoice promptly. Send three copies of invoice,

		R CA 94160-0	001	TO			Discount period will be calculated from d material, or receipt of invoice, whichever Invoice and correspondence to office onl	is later.
CO	DIV	VENDOR NO	ORDER PLACED WITH	IN PERSON BY PHONE BY V	VIRE PO DATE	REQUESTED BY	BUYER	PAGE
50	0	6003	KYLE N		7/25/12		DENISE	10
		REFERENCE	P/	YMENT TERMS	FOB POINT	PARTIAL SHIPMENTS	SHIP VIA	
9163	388233	3			JOBSITE	ACCEPTED		

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PO ITEM	JOB / SUB JOB COST DISTRIBUTION	CT	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
146	6812 33.11000	М	DISFX36 8X36 FLGXFLG DI SPL	07/26/12	1.00	EA	237.5000	.500	237.50
147	6812 33.11000	М	DISFX18 8X18 FLGXFLG DI SPL	07/26/12	1.00	EA	168.7500	.500	168.75
148	6812 33.11000	М	DISFX48 8X48 FLGXFLG DI SPL	07/26/12	1.00	EA	275.0000	.500	275.00
149	6812 33.11000	М	FER12X 12X8 DI 125# C110 FLG ECC RED	07/26/12	2.00	EA	295.6670	.500	591.33
150	6812 33.11000	м	SPVENTURITUBEX PFS 8" A HVT CI VENTURI TUBE	07/26/12	1.00	EA	10125.8800	.500	10,125.88
151	6812 33.11000	М	SPCF613612 12 CLOW CF6136 OS&Y FLG GATE VLV	07/26/12	1.00	EA	2493.2300	.500	2,493.23
152	6812 33.11000	М	RFCA50113551200 12 FLG COUP ADPT 13.15-13.55	07/26/12	1.00	EA	705.0890	.500	705.09
153	6812 33.11000	М	SPDISFPE12216 12X8-0 DI FEXPE SPOOL	07/26/12	1.00	EA	2500.0000	.500	2,500.00
154	6812 33.11000	М	FFV16005 1-1/4IN FB1600 CORP ST	07/26/12	2.00	EA	85.2840	.500	170.57
155	6812 33.11000	М	FFB16003 3/4 CCXFIP BALL CORP ST	07/26/12	2.00	EA	28.6380	.500	57.28
156	6812 33.11000	М	IBR125UH 1-1/4 BRS 125# UNION	07/26/12	2.00	EA	23.8550	.500	47.71
157	6812 33.11000	М	CHA251 1/2 MALE HOSE BIBB NO KINK	07/26/12	2.00	EA	8.0580	.500	16.12
158	6812 33.11000	М	UFTG12 12 FLG TYTE GSKT	07/26/12	19.00	EA	8.7430	.500	166.12
159	6812 33.11000	М	TILBOX6T1012 10-12 316 SS BOLT SET W/BLNUT	07/26/12	19.00	EA	80.0480	.500	1,520.91
160	6812 33.11000	M	UFTGX 8 FLG TYTE GSKT	07/26/12	14.00	EA	4.8710	.500	68.19
161	6812 33.11000	М	TILBOX6T68 6-8 316 SS BOLT SET W/BLUNUT	07/26/12	14.00	EA	27.7670	.500	388.74

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GOODFELLOW BROS INC

WENATCHEE WA 98807

FERGUSON ENTERPRISES, INC

#3014

PO BOX 598

FILE #30129

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P.O. BOX 60000

SAN FRANCISCO

PURCHASE ORDER NO. 85055165 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1

W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and
- invoices.

 3. Selier warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act,
- No charges for packing or crating will be accepted unless previously agreed upon.
- Invoice promptly. Send three copies of invoice.
 Discount period will be calculated from date of receipt of

	5	94160-00	01		0			material, or receipt of Invoice, whichever in 7. Invoice and correspondence to office only	
CO	DIV	VENDOR NO	ORDER PLACED WITH	IN PERSON BY PHONE	BY WIRE	PO DATE	REQUESTED BY	BUYER	PAGE
50	0	6003	KYLE N		-	7/25/12		DENISE	11
		REFERENCE	PA	MENT TERMS		FOB POINT	PARTIAL SHIPMENTS	SHIP VIA	
9163	88233	3			JOB	SITE	ACCEPTED		

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PO ITEM	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
162	6812		PTMVB	07/26/12	39.00	EA	79.0000	.500	3,081.00
	33.11000	M	MAUI 2 PC SPLIDING VLV BX SLIP	[]	.00]	
163	6812		PTMJCR1612	07/26/12	1.00	EA	1188.4530	.500	1,188.45
	31.11000	M	16X12 MJ C153 CROSS W/ACCS	l [.00				
164	6812		PTMJ916	07/26/12	1.00	EA	687.6430	.500	687.64
	31.11000	М	16" MJ C153 90 BEND W/ACCS		.00				

120/002

STATE

TOTAL SALES TAX

.5000

1,690.95 1,690.95

DELIVER TO		ESTIMATED FREIGHT		
JOBSITE	ВУ	.00	TOTAL ->	\$339,874.93

GOODFELLOW BROS INC

WENATCHEE WA 98807

PO BOX 598

PURCHASE ORDER NO. 85055663 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and

		E 94	OTECH SOLUTI -155 C LEOWA IPAHU 797		v	S H I P T O	IILANI PROMENAD	E OS	3 4 5 6	 Place Order Number on all packages, bills invoices. Seller warrants goods shipped produced it with applicable provisions of fair labor and. No charges for packing or crating will be a previously agreed upon. Invoice promptly. Send three copies of invoice promptly. Send three copies of invoice promptly of invoice whichever in a material, or receipt of invoice, whichever in for livoice and correspondence to office only 	n accordance d standards act. accepted unless coice. te of receipt of s later.
CO	DIV	VENDO	NO ORD	ER PLACED WITH	IN PERSON BY PHONE	BY WIRE	PO DATE	REQUESTED BY		BUYER	PAGE
50	0	74	17	CORY			8/15/12			DENISE	1
		REFERE	NCE	P.	AYMENT TERMS		FOB POINT	PARTIAI	L SHIPMENTS	SHIP VIA	
8086	577158	80				K/	AHULAI DOCKS	ACCEPTED			

PO	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
1	6812 11.46100		NAM GREEN TURF MATTING	08/16/12	3680.00 .00	SY	9.2000	4.166	33,856.00
2	6812 11.46100	М	STAPLES	08/16/12	8.00 .00	EA	65.0000	4.166	520.00

120/200

STATE

TOTAL SALES TAX

4.1660

1,432.10 1,432.10

DELIVER TO		ESTIMATED FREIGHT			
JOBSITE	ВУ	.00	TOTAL	->	\$35,808.10

PIILANI PROMENADE OS

GOODFELLOW BROS INC

WENATCHEE WA 98807

91-027 KAOMI LOOP

HAWAII CONCRETE PRODUCTS

PO BOX 598

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PURCHASE ORDER NO. 85054180 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and
- Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act
 No charges for packing or crating will be accepted unless
- previously agreed upon.
- invoice promptly. Send three copies of invoice.
 Discount period will be calculated from date of receipt of

		96707		TO			Discount period will be calculated from damaterial, or receipt of invoice, whichever it invoice and correspondence to office only	te of receipt of s later.
CO	DIV	VENDOR NO	ORDER PLACED WITH	IN PERSON BY PHONE BY W	IRE PO DATE	REQUESTED BY	BUYER	PAGE
50	0	8125	CORY		6/18/12		DENISE	1
		REFERENCE	PAY	MENT TERMS	FOB POINT	PARTIAL SHIPMENTS	SHIP VIA	
80868	32563	9			HONOLULU DOC	ACCEPTED		
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PO ITEM	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
1	6812 32.12000	М	96"X8' CAP 45 DEGREE BEND CUTTING AND WELDING	06/19/12 09/01/12	1.00	EA	3000.0000	.500	3,000.00
2	6812 32.12000	М	102"X20 CAP 10GA	06/19/12 09/01/12	41.00	LF	230.0000	.500	9,430.00
3	6812 32.12000	М	96"X20' CAP 12 GA	06/19/12 09/01/12	300.00	LF	210.0000	.500	63,000.00
4	6812 32.12000	М	DIMPLE COUPLING	06/19/12 09/01/12	15.00 .00	EA	210.0000	.500	3,150.00
5	6812 32.12000	М	84"X20' CAP 12 GA	06/19/12 09/01/12	1680.00	LF	6.4286	.500	10,800.05
6	6812 32.12000	M	84" DIMPLE COOUP	06/19/12 09/01/12	86.00	EA	185.0000	.500	15,910.00
7	6812 32.12000	М	72"X44"X20' CAP ARCH PIPE 12GA	06/19/12 09/01/12	1040.00	LF	133.0000	.500	138,320.00
8	6812 32.12000	М	DIMPLE COUP	06/19/12 09/01/12	52.00	EA	135.0000	.500	7,020.00
9	6812 32.12000	М	84" W/24" CAP STUB WELDED TO 84" BEND SECTION	06/19/12 09/01/12	1.00	EA	3740.0000	.500	3,740.00
10	6812 32.12000	М	84" W/24" CAP STUB WELDED TO 8' LONG PIPE SECTION	06/19/12 09/01/12	2.00	EA	1960.0000	.500	3,920.00
13	6812 32.12000	М	48" CAP 12 GA	06/19/12 09/01/12	1.00	EA	4000.0000	.500	4,000.00
14	6812 32.12000	м	48" CAP 12 GA RISER WELDED TO 84" PIPE	06/19/12 09/01/12	1.00	EA	3000.0000	.500	3,000.00
15	6812 32.12000	М	48"CAP 12GA RISER WELDED TO 84 PIP	06/19/12 09/01/12	1.00	EA	2700.0000	.500	2,700.00
16	6812 32.12000	М	48" CAP 12 GA RISER WELDED TO 84" PIP	06/19/12 09/01/12	1.00	EA	2900.0000	.500	2,900.00
17	6812 32.12000	М	48" CAP 12 GA RISER WELDED TO 84" PIPE	06/19/12 09/01/12	1.00	EA	4000.0000	.500	4,000.00

PURCHASE ORDER NO. 85054180 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and

			I CONCRETE PRODUCTS 7 KAOMI LOOP EI	S H I F	S PII	LANI PROMENAD	E OS	Place Ord invoices. Seller war with application of the previously 5. Invoice pn 6. Discount praterial, of the previously of the previously of the previously formaterial, or the previously of the previous of the pr	cknowledgment promptly upon ler Number on all packages, b mants goods shipped produce cable provisions of fair labor a se for packing or cratting will by agreed upon. omptly. Send three copies of period will be calculated from or receipt of invoice, whicheve and correspondence to office or	ills of lading and d in accordance and standards act, a accepted unless invoice, date of receipt of r is later.
CO	DIV	VENDOR NO	ORDER PLACED WITH	IN PERSON BY PHONE B	Y WIRE	PO DATE	REQUESTED BY		BUYER	PAGE
50	0	8125	CORY			6/18/12			DENISE	2
		REFERENCE	PAY	MENT TERMS		FOB POINT	PARTIAL SHIPMENT	S	SHIP VIA	
808	682563	9			HON	OLULU DOC	ACCEPTED			

PO	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
18	6812 32.12000	М	48" CAP 12 GA RISER WELDED TO 84" PIP	06/19/12 09/01/12	1.00	EA	2000.0000	.500	2,000.00
20	6812 32.12000	М	48" ID X 10" THICK CONCRETE	06/19/12 09/01/12	7.00	EA	350.0000	.500	2,450.00
26	6812 32.12000	м	84" ID BEND H OR V (12' PIPE)	06/19/12 09/01/12	4.00	EA	3340.0000	.500	13,360.00
27	6812 32.12000	м	ADVANCE PAYMENT ADVANCE PAYMENT W/ 4% DISCOUNT PER KEN GIFT/WAYNE K ANBE HCP	06/19/12 08/16/12	1.00	EA	287999.9500	.500	287,999.95

120/002 STATE

TOTAL SALES TAX

.5000 2,903.50

2,903.50

DELIVER TO		ESTIMATED FREIGHT		
JOBSITE	ВУ	.00	TOTAL ->	\$583,603.50

GOODFELLOW BROS INC

WENATCHEE WA 98807

PO BOX 598

GOODFELLOW BROS INC PO BOX 598

WENATCHEE WA 98807

V PRINSCO, INC.

PURCHASE ORDER NO. 85055245 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS Return Acknowledgment promptly upon receipt of order,
 Place Order Number on all packages, bills of lading and

		E ATTN: ACC N PO BOX 20 PRINSBURG R MN 56281		H I P			Seller warrants goods shipped produced with applicable provisions of fair labor ar No charges for packing or crating will be previously agreed upon. Invoice promptly. Send three copies of In Discount period will be calculated from dimalerial, or receipt of invoice, whichever Invoice and correspondence to office onl	nd standards act. accepted unless wolce. ate of receipt of is later.
CO	DIV	VENDOR NO	ORDER PLACED WITH	IN PERSON BY PHONE BY WIR	E PO DATE	REQUESTED BY	BUYER	PAGE
50	0	17874	BILL		7/24/12		DENNIS	1
		REFERENCE	P/	AYMENT TERMS	FOB POINT	PARTIAL SHIPMENTS	SHIP VIA	
8009	992172	2.5		I	PRINSCO PLANT	ACCEPTED		

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PO	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
1	6812 32.11000	М	60WT20NP 60"X20' GOLDFLO WT NON PERF	07/25/12	1000.00	FT	46.5100	.000	46,510.00
2	6812 32.11000	М	36WT20NP 36"X20' GOLDFLO WT NON PERF	07/25/12	400.00	FT	20.6400	.000	8,256.00
3	6812 32.11000	М	30WT20NP 30"X20' GOLDFLO WT NON PERF	07/25/12	970.00	FT	16.2900	.000	15,801.30
4	6812 32.11000	М	24WT20NP 24"X20' GOLDFLO WT NON PERF	07/25/12	1280.00	FT	10.9600	.000	14,028.80
5	6812 32.11000	M	15WT20NP 15"X20' GOLDFLO WT NON PERF	07/25/12	40.00	FT	5.0000	.000	200.00
6	6812 32.11000	М	GFWTS60 60" GOLDLOK WATER TIGHT SLEEVE	07/25/12	6.00	EA	199.0000	.000	1,194.00
7	6812 32.11000	м	GFWTS36 36" GOLDLOK WATER TIGHT SLEEVE	07/25/12	4.00	EA	108.7500	.000	435.00
8	6812 32.11000	М	GFWTS30 30" GOLDLOK WATER TIGHT SLEEVE	07/25/12	4.00	EA	93.7500	.000	375.00
9	6812 32.11000	М	GFWTS24 24" GOLDLOK WATER TIGHT SLEEVE	07/25/12	6.00	EA	77.5000	.000	465.00

DELIVER TO		ESTIMATED FREIGHT		
JOBSITE	ВУ	.00	TOTAL ->	\$87,265.10

GOODFELLOW BROS INC PO BOX 598

WENATCHEE WA 98807

P.O. BOX 1568

KAHULUI

WALKER INDUSTRIES, LTD.

PURCHASE ORDER NO. 85054245 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

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TAX RESALE NO 2 INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and invoices.
- Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act.
 No charges for packing or crating will be accepted unless.

D P ΗI previously agreed upon. 0 Invoice promptly. Send three copies of invoice.
 Discount period will be calculated from date of receipt of 96733-1568 material, or receipt of invoice, whichever is later. 0 7. Invoice and correspondence to office only. CO DIV VENDOR NO ORDER PLACED WITH IN PERSON BY PHONE BY WIRE PO DATE REQUESTED BY BUYER PAGE 50 0 24275 CORY/KYLE/ANDRW 7/03/12 DENISE 1 REFERENCE PAYMENT TERMS FOB POINT PARTIAL SHIPMENTS SHIP VIA 8088773430 JOBSITE ACCEPTED

Н

PIILANI PROMENADE OS

PO	JOB / SUB JOB COST DISTRIBUTION	C	PART NUMBER AND DESCRIPTION	DATE REQUIRED	QUANTITY	U/M	UNIT PRICE	SALES TAX RATE	AMOUNT
1	6812 31.13000	м	SEWER MANHOLE INCL. A-LOK SEAL	07/04/12	14.00	EA	3030.0000	.000	42,420.00
2	6812 32.16000	М	4'X4' DRAIN MANHOLE FOR PAVEMENT (DMH A-2, A-3, A-5)	07/04/12	4.00	EA	3620.0000	.000	14,480.00
3	6812 32.16000	М	4'8"X4'8" MOD DOT TYPE C DRAIN (DMH A-1, A-1A)	07/04/12	2.00	EA	6590.0000	.000	13,180.00
4	6812 32.16000	М	TYPE B CATCH BASIN (CB 2,5,7,9)	07/04/12	4.00	EA	5780.0000	.000	23,120.00
5	6812 32.16000	М	TYPE C CATCH BASIN (CB 1,4,6,8)	07/04/12	4.00	EA	4810.0000	.000	19,240.00
6	6812 32.16000	м	TYPE D CATCH BASIN (CB 3)	07/04/12	1.00	EA	2640.0000	.000	2,640.00
7	6812 32.16000	м	4'8"X6'8" SPECIAL DRAIN M-HOLE (DMH #1,2,3,4,5,6 & 7)	07/04/12	7.00	EA	7880.0000	.000	55,160.00
8	6812 32.16000	М	4'X12' TRANSITION STRUCTURE	07/04/12	1.00	EA	18650.0000	.000	18,650.00
9	6812 32.16000	м	4'X12' TRANSITION STRUCTURE #2	07/04/12	1.00	EA	16730.0000	.000	16,730.00
10	6812 32.16000	м	3'X4' GRATED INLET CATCH BASIN (GICB #1 and 2 - 61614)	07/04/12	2.00	EA	5270.0000	.000	10,540.00
11	6812 33.15000	м	5'4"X6'8" TYPE A MANHOLE FOR 24"	07/04/12	2.00	EA	10680.0000	.000	21,360.00
12	6812 33.15000	м	5'4"X8" TYPE A MANHOLE FOR 36"	07/04/12	2.00	EA	17610.0000	.000	35,220.00
13	6812 32.16000	м	3'X3' TYPE L GRATED INLET CATCH BASIN (Tank Site)	07/04/12	1.00	EA	3410.0000	.000	3,410.00
14	6812 32.16000	М	10' SPAN X5' RISE REINF CNCRTE BOX CULVERT	07/04/12	12.00	LF	1055.0000	.000	12,660.00

GOODFELLOW BROS INC PO BOX 598

WENATCHEE WA 98807

P.O. BOX 1568

KAHULUI

96733-1568

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WALKER INDUSTRIES, LTD.

PURCHASE ORDER NO. 85054245 (MUST APPEAR ON ALL DOCUMENTS AND PACKAGES)

TAX RESALE NO 1 W20182340-01

TAX RESALE NO 2

INSTRUCTIONS AND CONDITIONS

- Return Acknowledgment promptly upon receipt of order.
 Place Order Number on all packages, bills of lading and
- Seller warrants goods shipped produced in accordance with applicable provisions of fair labor and standards act,
- 4. No charges for packing or crating will be accepted unless previously agreed upon.

 5. Invoice promptly. Send three copies of invoice.

 6. Discount period will be calculated from date of receipt of

	64			0			7. Invoice and correspondence to office only.	ter.
CO	DIV	VENDOR NO	ORDER PLACED WITH	IN PERSON BY PHONE BY	VIRE PO DATE	REQUESTED BY	BUYER	PAGE
50	0	24275	CORY/KYLE/ANDRW		7/03/12		DENISE	2
		REFERENCE	PAY	MENT TERMS	FOB POINT	PARTIAL SHIPMENTS	SHIP VIA	
8088	77343	0			JOBSITE	ACCEPTED		

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P

PIILANI PROMENADE OS

COMPOUND WITH PRIMER, INSERTS, SHOP DRAWINGS. LAY LENGTH = 6 FEET MAX LIFT WEIGHT = 14 TONS

DELIVER TO		ESTIMATED FREIGHT		
JOBSITE	ВУ	.00	TOTAL ->	\$288,810.00

BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of) Docket No. A94-706
KAONOULU RANCH to Amend the Agricultural Land Use District Boundary into the Urban Land Use District for Approximately 88 acres at Kaonoulu, Makawao-Wailuku, Maui, Hawai'i; Tax Map Key Nos. (2) 2-2-02: por. 15 and 3-9-01:16	ROBERT D. POYNOR; EXHIBITS "K" - "L"
)

DECLARATION OF ROBERT D. POYNOR

I, ROBERT D. POYNOR, hereby declare that:

- 1. I am the Vice President of Sarofim Realty Advisors.
- 2. This declaration is submitted in reference to the above-captioned case.
- 3. Unless otherwise indicated, all statements made herein are based on personal knowledge.
- 4. I am an individual over eighteen (18) years of age and under no legal or mental disability, and I am competent to testify, having personal knowledge of the matters set forth herein.
- 5. Piilani Promenade South, LLC ("PPS") and Piilani Promenade North, LLC (together with PPS, "Piilani") are wholly owned subsidiaries of an entity managed by Sarofim Realty Advisors. Sarofim Realty Advisors is a registered investment advisor founded in 1982, and provides real estate investment management services which include entitlements, development, construction and asset management.

- 6. The County of Maui, PPS, and Maui Industrial Partners, LLC ("MIP") entered into the Assignment and Assumption of Agreement for Subdivision Approval dated September 13, 2010 (the "Assignment"). A true and correct copy of the Assignment is attached hereto as Exhibit "K."
- 7. Pursuant to the Assignment, the County accepted a new approved security in the amount of \$22,058,826.00 (the "Cash Bond") and permitted PPS to assume MIP's obligations as subdivider with regard to the Kaonoulu Ranch (Large-Lot) Subdivision No. 2, Subdivision File No. 2.2795, and the Kaonoulu Ranch Water Tank Subdivision, Subdivision File No. 2.2995.
- 8. From 2010 to the present day, Piilani entered into multiple contracts with Warren S. Unemori Engineering, Inc. ("WSUE") to provide civil engineering and land surveying services, including assistance in permitting, preparing construction documents, and construction support.
- 9. In 2012, Piilani entered into two contracts with Goodfellow Bros., Inc. ("GBI") for onsite and offsite construction work.
- 10. In accordance with the contracts, GBI purchased construction materials on Piilani's behalf for the offsite work. Piilani reimbursed GBI, with a portion of the reimbursement paid through the withdrawal of \$1,909,191 from the Cash Bond.
- 11. On June 18, 2015, the Department of Finance, County of Maui confirmed by letter that the amount of the Cash Bond held by the County totaled \$20,149,635. A true and correct copy of the June 18, 2015 letter is attached hereto as Exhibit "L."

I, ROBERT D. POYNOR, declare under penalty of law that the foregoing is true and correct.

 TMK Nos.: (2) 3-9-001:016; -169; -170; -171; -172; -173; -174; and (2) 2-2-002:015

Subdivision File Nos.: 2.2795 and 2.2995

ASSIGNMENT AND ASSUMPTION OF AGREEMENT FOR SUBDIVISION APPROVAL

THIS AGREEMENT is made and entered into this day of September, 2010 (the "Effective Date"), by and between PIILANI PROMENADE SOUTH, LLC, whose business and mailing address is 17802 Skypark Circle, Suite 200, Irvine, California 92614 ("Subdivider"), MAUI INDUSTRIAL PARTNERS, LLC, whose business and mailing address is 1999 Avenue of the Stars, #2850, Los Angeles, California 90067 ("MIP"), and the COUNTY OF MAUI, through its DEPARTMENT OF PUBLIC WORKS, and/ or its DEPARTMENT OF WATER SUPPLY, ("County").

WHEREAS, MIP and KAONOULU RANCH LLLP (collectively, "Original Developer"), as subdivider, and the County entered into that certain Agreement for Subdivision Approval, dated August 14, 2009 (the "First Agreement"), attached hereto as Exhibit "B" and incorporated herein by reference and made a part hereof, in which the Original Developer agreed to construct those certain improvements for the subdivision of land indentified in Subdivision File Nos. 2.2795 and 2.2995, for that property formerly identified as Tax Map Key ("TMK") Nos. (2) 3-9-001:016 and (2) 2-2-002:015, and now identified as (i) TMK Nos. (2) 3-9-001:016; 170; 171; 172; 173; and 174 (the "Maui Industrial Property"), (ii) TMK No. (2) 3-9-001-169 (the "Honua'ula Partners Property"), and (iii) TMK No. (2) 2-2-002:015 (the "Kaonoulu Ranch Property"), containing a total area of approximately 88.000 acres and 1.154 acres, (the Maui Industrial Property, the Honua'ula Partners Property and the Kaonoulu Ranch Property, collectively, the "Property") and known as Kaonoulu Ranch (Large-Lot) Subdivision No. 2 and Kaonoulu Ranch Water Tank Subdivision, hereinafter sometimes called the "Subdivision".

As of the Effective Date, (i) MIP has conveyed to Subdivider the Maui Industrial Property, (ii) Kaonoulu Ranch LLLP has conveyed to Subdivider a right of entry to the Kaonoulu Ranch Property for the purposes of constructing the above-referenced improvements, and (iii) Honua'ula Partners, LLC has conveyed to Subdivider a license to enter the Honua'ula Partners Property for the purposes of constructing the above-referenced improvements.

MIP desires to assign, and Subdivider desires to assume, the obligation of MIP to construct the above-referenced improvements pursuant to the First Agreement.

Subdivider has requested that the County accept a new surety bond, certified check, or other approved security in lieu of the existing surety bond or bonds listed on Exhibit A attached hereto, dated July 17, 2009 and issued by Arch Insurance Company (collectively referred to as the "First Bond"), and permit Subdivider to assume MIP's obligations as subdivider with respect to the Subdivision.

NOW, THEREFORE, it is hereby agreed by the parties hereto:

- 1. Effective as of the Effective Date, MIP hereby assigns, transfers, sets over and delivers unto Subdivider MIP's obligations as subdivider with respect to the Subdivision and MIP's obligation to construct the above-referenced improvements in accordance with the First Agreement, and Subdivider hereby accepts such assignment, and as of the Effective Date, Subdivider hereby assumes MIP's obligations as subdivider with respect to the Subdivision and MIP's obligation to construct the above-referenced improvements in accordance with the First Agreement.
- 2. In consideration of the foregoing, and in consideration of Subdivider's delivery to the County of a new surety bond, certified check, or other approved security herewith to replace the First Bond, receipt of which is hereby acknowledged, the First

Bond is hereby unconditionally and irrevocably released. The County shall provide <u>Arch Insurance Company</u> with an executed copy of this agreement, or other suitable document, as evidence of the County's exoneration of the "First Bond".

- 3. Subdivider shall complete the above-referenced improvements on or before the 7th day of July, 2011, or such extensions as may be granted by the County, in accordance with First Agreement and the approved construction plans of the Subdivision, and all rules, regulations, requirements and ordinances of the County, and any other applicable laws.
- 4. The approved security in the amount of Twenty-Two Million Fifty-Eight Thousand Eight Hundred Twenty-Six and No/100 Dollars (\$22,058,826.00) (the "Security"), which accompanies this Agreement is for the purpose of guaranteeing that Subdivider shall construct the above-mentioned improvements.
- 5. Should Subdivider fail to complete the above-referenced improvements by the time specified above, or such extension as may be granted by the County, the County may cause all required work which is unfinished to be completed and shall recover the full cost and expenses thereof from the parties executing the Security and the Subdivider, it being understood that in the event such cost and expense exceeds the amount of the Security or other approved security the Subdivider shall be liable for such amount beyond the limit of such Security or other security.
 - 6. Arch Insurance Company is a third party beneficiary of this Agreement.
- 7. The Security initially deposited with the County may be replaced by Subdivider with a surety bond, certified check or other approved security, if acceptable to the County's Director of Public Works and approved by the County's Department of the Corporation Counsel, in an amount equal to the Security remaining at the time of such



replacement, and upon such replacement, the County shall promptly return any remaining portion of the Security to Subdivider.

8. This Agreement may be executed in counterparts, each of which shall be deemed an original, and said counterparts shall together constitute one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on

the date first above written.

SUBDIVIDER:

PIILANI PROMENADE SOUTH, LLC

By: PIILANI PROMENADE PARTNERS, LLC Its Sole Member

By: EDG PIILANI PARTNERS, LLC
Its Managing Member

By:

Douglas B. Gray, as Trustee of the 1999 Gray Lamily Trust dated November 8, 1999 as amended its Sole Member

COUNTY OF MAUI:

DEPARTMENT OF PUBLIC WORKS

By Milton 1. Unhan

MILTON M. ARAKAWA
Its Director

DEPARTMENT OF WATER SUPPLY

By____

JEFFREY'K' ENG

Its Director

APPROVED AS TO FORM AND LEGALITY:

Deputy Corporation Counsel

County of Maui



MAUI INDUSTRIAL PARTNERS, LLC

By:

RG Ranch Associates, LI its managing member

By:

Michael B. Rosenfeld

Manager

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA	
COUNTY OF QRANGE	
On SEPTEMBER 09, 2010 before me	, Notary I dolle,
personally appeared	Here Insert Name of the Officer
same in his/her/their authorized capacity(ies	Name(s) of Signer(s) ry evidence to be the person(s) whose names(s) is d acknowledged to me that he/she/they executed the s), and that by his/her/their signature(s) on the behalf of which the person(s) acted, executed the
I certify under PENALTY OF PERJURY un foregoing paragraph is true and correct.	nder the laws of the State of California that the
L. FOX COMM. # 1852385 NOTARY PUBLIC - CALIFORNIA O ORANGE COUNTY COMM. EXPIRES JUNE 29, 2013	WITNESS my hand and official seal.
(Place Notary Seal Above)	State of California

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA
COUNTY OF Los Angeles
On Sept 13, 2010 before me Sharon Jastrow, Notary Public.
Here Insert Name of the Officer
personally appeared Michael B. RosenCeld
Name(s) of Signer(s)
who proved to me on the basis of satisfactory evidence to be the person(c) whose names(c) is
(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity/les), and that by his/her/their signatures, on the
instrument, the person(c) or the entity upon behalf of which the person(c) acted, executed the instrument.
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

SHARON JASTROW COMM. #1761126 Motary Public California LOS ANGELES COUNTY My Comm. Exp. Aug 11, 2011

(Place Notary Seal Above)

WITNESS my hand and official seal.

Signature of Notary Public. State of California

STATE OF HAWAII)	
On this day of September, 20 ARAKAWA, to me personally known, who being be Director of Public Works of the County of Maui, a per and that the seal affixed to the foregoing instrument Maui, and that the said instrument was signed and sepursuant to Title 18 of the Maui County Code, the Sub M. ARAKAWA acknowledged the said instrument to Maui.	political subdivision of the State of Hawaii, is the lawful seal of the said County of sealed on behalf of said County of Mauidivision Ordinance, and the said MILTON
IN WITNESS WHEREOF, I have heren	PUBLIC, State of Hawaii. ne
Notary Public CERT Doc. Date: Notary Name: Doc. Description: Of Agreement for Subdinision Approximation Notary Signature: Date: 9 13 10	# Pages: A Judicial Circuit: Second

STATE OF HAWAII)
) SS.
COUNTY OF MALI)

On this 131 day of September, 20 10, before me appeared JEFFREY K. ENG, to me personally known, who being by me duly sworn did say that he is the Director of Water Supply of the County of Maui, a political subdivision of the State of Hawaii, and that the seal affixed to the foregoing instrument is the lawful seal of the said County of Maui, and that the said instrument was signed and sealed in behalf of said County of Maui pursuant to rules and regulations of the Department of Water Supply, and the said JEFFREY K. ENG acknowledged the said instrument to be the free act and deed of said County of Maui.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.



NOTARY PUBLIC, State of Hawaii.
Print Name GAYE HAYASHIDA

My commission expires: WAY 23, 2014

	NOTARY PUBLIC CER	TIFICATION	
Doc. Date:	SEPTEMBER 13, 2010	# Pages:	21
Notary Name:	GAYE HAYASHIDA	Judicial Circuit:	SECOND
Doc. Description:	ASSIGNMENT AND ASSUM	PTION	THE PROPERTY OF THE PARTY OF TH
of agree	ELENT FOR SUBDIVISION		HAYASHIO
APPEOVAL		_	O NOTARY PUBLIC No. 10-130
		{	AUBLIC
Notary Signature:	gaye Hayachedan	,	NAME OF THE PARTY
Date: 9/3	lio		THE PARTY WHITE

EXHIBIT A

FIRST BOND

Principal Name	Bond Number	Bond Amount	Effective Date	Obliges Name	Bond Description
Maui Industrial Partners, LLC	SU 1102685	\$ 1.256,710.00	7/17/2009	County of Maui	Kaonoulu Ranch (Large Lot) Subdivision 2 Silawork
Maui Industrial Partners, LLC	SU 1102686	\$ 2,299,046,00	7/17/2009	County of Maul	Kaonoulu Ranch (Large Lol) Subdivision 2 East Kaonoulu Street
Maui industrial Partners, LLC	SU 1102687	\$ 1,411,106.00	7/17/2009	County of Maul	Keonoulu Ranch (Large 'Lol) Subdivision 2 Pillani Highwey Widening
Maui Industrial Partners, LLC	SU 1102688	\$ 1,771,330.00	7/17/2009	County of Maui	Kaonoulu Ranch (Large Lot) Buildivision 2 Access Road & Swales
Maui Industrial Partners, LLC	SU 1102689	S 712,592.00	7/17/2009		
Maui Industrial Partners, LLC	SU 1102690	\$ 2,895,052.00	7/17/2009	County of Maui	Kaddoulu Ranch (Large Lot) Subdivision 2 Storm Drainage System/Revision
Maui Industrial Partners, LLC	SU 1102691	\$ 834,700.00	7/17/2009	County of Manie	Kaphoulu Ranch (Large Lot) Subdivision 2 Onsite Water System
Maui Industrial Partners, LLC	SU 1102692	\$ 4,802,784.00	7/17/2009 .	County of Maul	Reconoulu Ranch (Large Lot) Subdivision 2 Water/Water Tank
Maui Industrial Partners, LLC	SU 1102693	\$ 2,444,940.00	7/17/2009	County of Maui	Kaonoulu Ranch (Large Lot) Subdivision 2 Water/Water Main
Maui Industrial Partners, LLC	SU 1102694	\$ 885,566.00	7/17/2009	County of Maui	Kaometalia Ranch (Large Lot) Subdivision 2 Electrical
Maui Industrial Partners, LLC	SU 1102695	\$ 643,000.00	7/17/2009	County of Marit	Kaonoulu-Babch (Large Lot) Subdivision 2 Traffic Signal
Maui Industrial Partners, LLC	SU 1102696	\$ 1,202,000,00	7/17/2009	County of Mauf	Reignoutu Rench (Lurge Lot) Subdivision 2 Landscape/irrigation
Maui Industrial Partners, LLC	SU 1102697	\$ 900,000.00	7/17/2009	County of Maui	Kaonoelu Rench (Large Lot) Subdivision 2 CRM Walls
		\$ 22.058,826.00		- 55	



TMK No. (2) 3-9-001:016 and (2) 2-2-002:015
Subdivision File No. 2.2795 and 2.2995

AGREEMENT FOR SUBDIVISION APPROVAL

THIS AGREEMENT is made and entered into this 14th day of
August , 20 09 , by and between Kaonoulu Ranch LLLP and
Maui Industrial Partners, LLC , whose residence address is
and/or whose mailing address is P.O. Box 390, Kula, Hawaii, 96790; 1999 Avenue of the Stars,
Suite 2850, Los Angeles, CA 90067; respectively ("Subdivider"), and the
COUNTY OF MAUI, through its DEPARTMENT OF PUBLIC WORKS, and/or its
DEPARTMENT OF WATER SUPPLY, ("County").
WHEREAS, the Subdivider has agreed to provide certain
improvements for the subdivision of land identified in Subdivision
File No. 2.2795 and 2.2995 and incorporated herein by
reference and made a part hereof and situate at Tax Map Key No.
(2) 3-9-001:016 and (2) 2-2-002:015, containing an area of approximately
88.000 Acres and 1.154 Acres ("Property") and known as
Kaonoulu Ranch (Large-Lot) Subdivision No. 2 and hereinafter sometimes
Kaonoulu Ranch Water Tank Subdivision called the "Subdivision", all in accordance with the rules,
regulations, requirements and ordinances of the County of Maui on
or before the 17th day of July , 2010 , or such
extensions as may be granted by the County; and
WHEREAS, said improvements are more particularly
designated on the approved construction plans of the Subdivision,
which construction plans are incorporated herein by reference and



made a part hereof; and

WHEREAS, the Subdivider desires to receive final approval of the Subdivision in accordance with the subdivision ordinance of the County of Maui by submitting a surety bond, certified check, or other approved security to guarantee the construction of said improvements;

NOW, THEREFORE, it is hereby agreed by the parties hereto:

- 1. That the Subdivider shall complete the above-mentioned improvements on or before the 17th day of July 2010, in accordance with the above-mentioned Subdivision File No., construction plans and the rules, regulations, requirements and ordinances of the County of Maui and any other applicable laws.
- 3. That should the Subdivider fail to complete the work required at the time specified, or such extension as may be granted by the County, the County may cause all required work which is unfinished to be completed and shall recover the full cost and expenses thereof from the parties executing the bond and the

Subdivider, it being understood that in the event such cost and expense exceeds the amount of the bond or other approved security the Subdivider shall be liable for such amount beyond the limit of such bond or other security.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date first above written.

SUBDIVIDER		
Maui Industrial Partners, LLC		
Maui Industrial Partners, LLC a Delaware limited By: RC Banch Associator, LLC a Delaware limited By	liability liability	compan compan
name Michael Rosenfeld Its Manager		
Ву		
name:		
Its		
Ву		
name:		
Its		

Subdivider, it being understood that in the event such cost and expense exceeds the amount of the bond or other approved security the Subdivider shall be liable for such amount beyond the limit of such bond or other security.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date first above written.

SUBDIVIDER:

Kaonoulu Ranch LLLP	
By Sisse	above)
name: Henry F. Rice Its Managing General	Partner
name:	
Its	
Ву	
By	

By_ name: Its By_ name: Its By_ name: Its COUNTY OF MAUI: DEPARTMENT OF PUBLIC WORKS MILTON M. ARAKAWA Its Director DEPARTMENT OF WATER SUPPLY

APPROVED AS TO FORM AND LEGALITY:

DAVID A. GALAZIN Corporation Counsel

County of Maui s:\DSA\STANDARD FORMS\Subdivision\Standard Agreements\SubdapprRev0707.wpd

State of California County of Los Angeles

On July 17, 2009 before me, Sharon Jastrow, a Notary Public personally appeared Michael Rosenfeld who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(les), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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

WITNESS my hand and official seal.

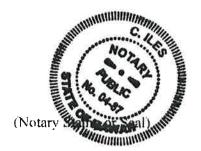
Signature .

(Seal)



STATE OF HAWAII)	
)	SS
COUNTY OF MAUI)	

On this Oth day of Anne, 2009, before me personally appeared HENRY F. RICE, personally known/proved to me on the basis of satisfactory evidence, who, being by me duly sworn or affirmed, did say that such person executed the foregoing instrument as the free act and deed of such person, and if applicable in the capacity shown, having been duly authorized to execute such instrument in such capacity.



Cles	
Name:	
Notary Public, State of Hav	waii C. Ilea
My commission expires:	My Commission Expires 02/29/2012

NOTARY CE	RTIFICATION STATEMEN	NT
Document Identification or Description:		×
Document Date: Undated	.	
No. of Pages:		C. William C. William
Jurisdiction (in which notarial act is per	formed):	No. Com
Sund		STATE OF STA
Cles	8-10-09	10 COLO
Signature of Notary	Date of Notarization and	1 4 4 M
C. Iles	Certification Statement	(Notal Manifest Seal)
Printed Name of Notary		Secretarial mesonagilist and an analysis

STATE OF HAWAII

SS.

COUNTY OF MAUI

On this _______ day of _________, 20______, before me personally appeared MILTON M. ARAKAWA, to me personally known, who being by me duly sworn, did say that he is the Director of Public Works of the County of Maui, a political subdivision of the State of Hawaii, and that the seal affixed to the foregoing instrument is the lawful seal of the said County of Maui, and that the said instrument was signed and sealed on behalf of said County of Maui pursuant to Title 18 of the Maui County Code, the Subdivision Ordinance, and the said MILTON M. ARAKAWA acknowledged the said instrument to be the free act and deed of the said County of Maui.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

NOTARY PUBLIC. State

NOTAR PUBLIC, State of Hawaii.

Print Name_

My commission expires: |

113010

Doc. Diste: 8|4|09 # Pages: D'

JIM Anne 8. One Second Circuit

Doc. Description Approval

Subdivision Approval

Notary Signature

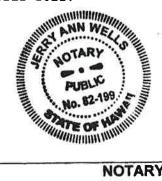
NOTARY CERTIFICATION

STATE OF HAWAII

SS.

COUNTY OF MAUI

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.



NOTARY PUBLIC. State of Hawaiis Print Name Yerry Ann Wells My commission expires: 4/19/20/6

	NOTARY PUBLIC CERT	TIFICATION
Doc. Date:	Undated at time of notarization	# Pages:
Notary Name:	JERRY ANN WELLS	Judicial Circuit: SECOND
Doc. Description:	Agreement for Subdivision Approval	ALAY SOLUTION
		OTARY
		- PUBLIC)
	Dismanwell	PUBLIC No. 82-199
Notary Signature: Date:	August 13, 2009	TE OF HARMING

Schedule of Subdivision Bonds

Kaonoulu Ranch (Large Lot) Subdivision No. 2 and Kaonoulu Ranch Water Tank Subdivision TMK No. 3-9-001:016 and (2) 2-2-002:015 Subdivision File No. 2.2795 and 2.2995

Description of Work	Bond #	Bond Amount
Sitework Improvements	SU1102685	1,256,710
East Kaonoulu St. Improvements	SU1102686	2,299,046
Pillani Hwy Widening Improvements	SU1102687	1,411,106
Access Road & Swales	SU1102688	1,771,330
Sewer System / Revisions	SU1102689	712,592
Storm Drainage System / Revisions	SU1102690	2,895,052
Onsite Water System	SU1102691	834,700
12" Offsite Water/ 1MG Water Tank	SU1102692	4,802,784
36" Water Main / Water / Misc. Revisions	SU1102693	2,444,940
Electrical	SU1102694	885,566
Traffic Signal Improvements	SU1102695	643,000
Landscape / Irrigation	SU1102696	1,202,000
CRM Walls	SU1102697	900,000
TOTAL SUBDIVISION BOND AMO	UNT:	\$ 22,058,826



DANILO F. AGSALOG Director

MARK R. WALKER Deputy Director

COUNTY OF MAUI DEPARTMENT OF FINANCE

200 S. HIGH STREET WAILUKU, MAUI, HAWAII 96793

June 18, 2015

SENT VIA E-MAIL

Mr. Robert D. Paynor Vice President Sarofim Realty Advisors 8115 Preston Road, Suite 400 Dallas, Texas 75225

> RE: KAONOULU RANCH SUBDIVISION NO. 2 SUBDIVISION FILE NO. 2.2795 & 22995

Dear Mr. Paynor,

This letter will confirm that the County of Maui currently holds cash totaling \$20,149,635.00 as a bond for the performance of certain improvements required for the above referenced subdivision and as agreed to in the "ASSIGNMENT AND ASSUMPTION OF AGREEMENT FOR SUBDIVISION APPROVAL" dated September 13, 2010 by and between the County of Maui, Piilani Promenade South, LLC and Maui Industrial Partners, LLC.

Should you have any questions or need additional information please do not hesitate to contact me.

Sincerely,

MARK R. WALKER

Deputy Director

BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of)	Docket No. A94-706
)	
KAONOULU RANCH to Amend the)	CERTIFICATE OF SERVICE
Agricultural Land Use District Boundary)	
into the Urban Land Use District for)	
Approximately 88 acres at Kaonoulu,)	
Makawao-Wailuku, Maui, Hawai'i; Tax)	
Map Key Nos. (2) 2-2: por. 15 and)	
3-9-01:16)	•
)	

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing document will be duly served upon the following persons by electronic mail ("EM"), or by mailing said copy, postage prepaid, first class, in a United States post office ("M") or by hand delivery ("HD") in the manner indicated, addressed as set forth below:

DANIEL ORODENKER, Executive Officer Land Use Commission, State of Hawai'i 235 South Beretania Street Room 406, Leiopapa A Kamehameha Bldg. Honolulu, Hawai'i 96813 <u>Daniel.E.Orodenker@dbedt.hawaii.gov</u> (HD, EM)

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LEO R. ASUNCION, JR., Director Office of Planning, State of Hawai'i 235 South Beretania Street Room 600, Leiopapa A Kamehameha Bldg. Honolulu, Hawai'i 96813 Leo.R.Asuncion@hawaii.gov (EM)

MICHELE CHOUTEAU MCLEAN, Planning Department, County of Maui One Main Plaza 2200 Main Street, Suite 315 Wailuku, Maui, Hawai'i 96793 <u>Michele.McLean@co.maui.hi.us</u> (EM)

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<u>ctabata@m-klawyers.com</u> (EM)

DATED: Honolulu, Hawai'i January 10, 2019.

RANDALL FASARUMOTO

LISA W. CATALDO

CATHERINE A. TASCHNER

Attorneys for PIILANI PROMENADE SOUTH, LLC and PIILANI PROMENADE NORTH, LLC