

HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION

677 Queen Street / Honolulu HI 96813

Fax: (808) 587-0600

FRANCIS PAUL KEENO
PROCUREMENT OFFICER

ADDENDUM NO. 1

November 15, 2022

IFBNO: 22-009-K85-S

**IFBTITLE: VILLAGES OF KAPOLEI DEDICATION - KAIKAI AVENUE ROADWAY
REHABILITATION PROJECT - PHASE I**

BIDS DUE: Monday, November 21, 2022 NOT LATER THAN: 2:00 p.m.

This Addendum modifies or clarifies the solicitation documents only to the extent indicated herein, and all portions thereof not specifically affected by the addendum shall remain in full force and effect. All addenda shall be added to and form a part of the Invitation for Bid (IFB) documents.

- Item #1** **Change:** Replace Form of Bid, pages P-1 to P-18, with Form of Bid-Revised.
- Item #2** **Change:** Delete the entire Technical Specifications Section SP 36, dated r08/03/22 and insert in lieu thereof the attached revised Section SP 36 dated r1 1/10/22.
- Item #3** **Change:** Delete the entire Technical Specifications Section SP 204, dated r08/03/22 and insert in lieu thereof the attached revised Section SP 204 dated r1 1/10/22.
- Item #4** **Change:** Replace IFB Drawings, Sheets 2, 9, 10, 11, 12, 13, 14, 15, 16, 36, 37, 53 & 54, dated September 2022 with Addendum No. 1 Sheets 2, 9, 10, 11, 12, 13, 14, 15, 16, 36, 37, 53 & 54, dated 11/10/22.

Francis Paul Keeno

Francis Paul Keeno, Procurement Officer

END OF ADDENDUM NO. 1

ITEM #1

FORM OF BID - REVISED

FORM OF BID

**FOR
FURNISHING LABOR AND MATERIALS
REQUIRED FOR**

KAI AU AVENUE ROADWAY REHABILITATION PROJECT - PHASE I

Tax Map Key: 1-9-1-016:073; 1-9-1-119:125; 1-9-1-016:118;
1-9-1-091:169

JOB NO. 22-009-K85-S

To: Francis Paul Keeno
Procurement Officer
Hawaii Housing Finance and Development Corporation (HHFDC)
677 Queen Street, Suite 300
Honolulu, Hawaii 96813

1. The undersigned Bidder, hereby acknowledges visiting or otherwise familiarizing itself with the site of work, being familiar with the conditions under which the work is to be performed and reading the specifications and other solicitation and contract documents relating to Job No. 22-009-K85-S, KAI AU AVENUE ROADWAY REHABILITATION PROJECT – PHASE I. The undersigned Bidder hereby proposes to furnish all labor, materials, equipment, tools, transportation, permits, incidentals and supplies required to complete the project in full accordance with the contract documents for the following price(s) in the form of a Grand Total Bid amount noted below (which includes the Hawaii General Excise Tax of four and seven twelve percent (4.712%)).

GRAND TOTAL BID:

_____ DOLLARS (\$ _____).

BID SCHEDULE

Item No.	Estimated Quantities	Description	Unit Price	Total
1.	3,442	Repaving of Kaiiau Avenue inclusive of removal and installation of pavement markers, striping and markings, installation and removal of temporary pavement markings, cold planing and disposal of existing pavement, recompact existing aggregate base course, tack coat, hot mix asphalt, removal and installation of vehicle detector loops, adjustment of existing utilities to finished grade, adjustment of existing street monuments to finished grade, asphalt surface treatment, necessary permits and all incidentals, in place complete. Unit: Ton	\$ _____	\$ _____
2.	L.S.	As-Built Drawings Unit: Lump Sum		\$ _____
Total Items 1 through 2, inclusive				\$ _____
HHFDC: Kaiiau Ave – Pae Ko Gardens Section (Sta 0+50 to 9+00) & Kaiiau Ave – Iwalani Section (Sta 24+91 to 43+26)				
3.	16	Reconstruction of concrete sidewalks, inclusive of demolition and removal & disposal of existing sidewalk culvert and debris, preparation of subgrade, placement of select borrow, installation of 4-inch topsoil & grassing to match existing, replacement of section of sidewalk, construction of joints, coordination with various utility companies and government agencies, surface finishes and all incidentals, in place complete. Unit: Sq. Ft.	\$ _____	\$ _____

Item No.	Estimated Quantities	Description	Unit Price	Total
4.	60	Reconstruction of reinforced concrete curb, inclusive of saw cutting, removal and disposal of existing curb and debris, replacement of damaged sections of curb, recompaction of existing select borrow subbase course, add and compaction of aggregate base course, expansion joints, surrounding area restoration, and all incidentals, in place complete.	Unit: Lin. Ft. \$ _____	\$ _____
5.	242	Reconstruction of concrete curb and gutter, inclusive of saw cutting, removal and disposal of existing curb and gutter and debris, replacement of damaged sections of curb and gutter, recompaction of existing select borrow subbase course, add and compaction of aggregate base course, expansion joints, surrounding area restoration, and all incidentals, in place complete.	Unit: Lin. Ft. \$ _____	\$ _____
6.	50	Reconstruction of concrete curb , inclusive of saw cutting, removal and disposal of existing curb and gutter and debris, replacement of damaged sections of curb and gutter, recompaction of existing select borrow subbase course, add and compaction of aggregate base course, expansion joints, surrounding area restoration, and all incidentals, in place complete.	Unit: Lin. Ft. \$ _____	\$ _____

Item No.	Estimated Quantities	Description	Unit Price	Total
7.	2	Tree Root Pruning and Canopy Pruning Unit: Each	\$ _____	\$ _____
8.	3	Traffic signs, including brackets, installation of new signs, and all incidentals, in place complete. Unit: Each	\$ _____	\$ _____
9.		Repair Of Catch Basins		
9A.	1	Catch Basin A – Defective Concrete Repair Unit: Sq. Ft.	\$ _____	\$ _____
9B.	L.S.	Catch Basin B - Reconstruct portions of catch basin curb Unit: Lump Sum		\$ _____
9F.	L.S.	Catch Basin F - Reconstruct catch basin curb Unit: Lump Sum		\$ _____
9G.	L.S.	Catch Basin G - Reconstruct catch basin top slab and curb, including reinforced sidewalk reconstruction at catch basin Unit: Lump Sum		\$ _____
9J.	7	Catch Basin J – Defective Concrete Repair Unit: Sq. Ft.	\$ _____	\$ _____
9K.	10	Catch Basin K – Defective Concrete Repair Unit: Sq. Ft.	\$ _____	\$ _____
9L.	4	Catch Basin L - Defective Concrete Repair Unit: Sq. Ft.	\$ _____	\$ _____
9M.	2	Catch Basin M - Defective Concrete Repair Unit: Sq. Ft.	\$ _____	\$ _____

Item No.	Estimated Quantities	Description	Unit Price	Total
9N.	10	Catch Basin N - Defective Concrete Repair Unit: Sq. Ft.	\$ _____	\$ _____
9P.	6	Catch Basin P - Defective Concrete Repair Unit: Sq. Ft.	\$ _____	\$ _____
9Q.	3	Catch Basin Q - Defective Concrete Repair Unit: Sq. Ft.	\$ _____	\$ _____
9U.	L.S.	Catch Basin U - Reconstruct catch basin curb Unit: Lump Sum		\$ _____
9T.	L.S.	Catch Basin T - Reconstruct catch basin top slab and curb, including reinforced sidewalk reconstruction at catch basin Unit: Lump Sum.		\$ _____
9Y.	L.S.	Catch Basin Y - Reconstruct catch basin top slab and curb, including portions of sidewalk reconstruction at catch basin Unit: Lump Sum		\$ _____
9AA.	9	Catch Basin AA - Defective Concrete Repair Unit: Sq. Ft.	\$ _____	\$ _____
Catch Basin Subtotal				\$ _____
Total Items 3 through 9, inclusive				\$ _____

Item No.	Estimated Quantities	Description	Unit Price	Total
DHHL: Kaiau Ave – Maluohai Section (Sta 9+00 to 24+91)				
10.	155	Reconstruction of concrete curb and gutter, inclusive of saw cutting, removal and disposal of existing curb and gutter and debris, replacement of damaged sections of curb and gutter, recompaction of existing select borrow subbase course, add and compaction of aggregate base course, expansion joints, surrounding area restoration, and all incidentals, in place complete. Unit: Lin. Ft.	\$ _____	\$ _____
11.	3	Tree Root Pruning and Canopy Pruning Unit: Each	\$ _____	\$ _____
12.	2	Traffic signs, including brackets, installation of new signs, and all incidentals, in place complete. Unit: Each	\$ _____	\$ _____
Total Items 10 through 12, inclusive				\$ _____

Item No.	Estimated Quantities	Description	Unit Price	Total
Additional Work Items (See Section SP 152 for Additional Work Description and Payment Requirements)				
13.	300	Additional Aggregate Base Course Unit: Cu. Yd.	\$ _____	\$ _____
14.	300	Additional Unclassified Excavation for Reconstruction of Pavement Areas Unit: Cu. Yd.	\$ _____	\$ _____
15.	100	Subgrade Treatment with Cement Unit: Sq. Yd.	\$ _____	\$ _____
16.	5	Additional Street Survey Monument Frame and Cover, Including Adjustment Unit: Each	\$ _____	\$ _____
17.	4	Additional Geogrid (Material Only). Unit: Roll	\$ _____	\$ _____
18.	1,100	Additional Geogrid Placement (Installation). Unit: Sq. Yd.	\$ _____	\$ _____
19.	5	Additional Woven Geotextile. (Material Only). Unit: Roll	\$ _____	\$ _____
20.	1,100	Additional Woven Geotextile Placement (Installation). Unit: Sq. Yd.	\$ _____	\$ _____
21.	Allowance	Additional Water Pollution, Dust, and Erosion Control Unit: Allowance		\$ <u>10,000.00</u>
22.	F.A.	Additional Traffic Control Devices Unit: F.A.		\$ <u>10,000.00</u>

Item No.	Estimated Quantities	Description	Unit Price	Total
23.	Allowance	Additional Police Officers Unit: Allowance		\$ <u>10,000.00</u>
24.	Allowance	Additional Arboricultural work. Unit: Allowance		\$ <u>20,000.00</u>
25.	Allowance	Archaeological monitoring and Archaeological-related work Unit: Allowance		\$ <u>20,000.00</u>
26.	L.S.	Mobilization Unit: Lump Sum		\$ <u>65,728.00</u>
27.	Allowance	Contingency Unit: Allowance		\$ <u>100,000.00</u>
Total Sum (Additional Work), Items 13 through 27, inclusive				\$ _____
Total Sum, Items 1 through 27, inclusive				\$ _____

GRAND TOTAL BID (Item No. 1 through Item No. 27 of the Bid) (which includes the State of Hawaii General Excise Tax of four and one-half percent and markup (4.712%)):

_____ DOLLARS (\$ _____).

2. **Contract Term.** The time of completion for this project shall be approximately **180** calendar days from the date of commencement indicated in the Notice to Proceed. HHFDC may extend the contract term by no more than **180** calendar days at its sole discretion. Any extension of the Contract time shall be mutually agreed upon in writing in the form of a supplemental agreement executed prior to contract expiration.
3. The Bidder shall complete this Bid for all the itemized line items in this Bid. If any or all of itemized line items are removed from the executed contract, the contract time and the contract cost will be adjusted accordingly.
4. In submitting this Bid, it is understood that the award of contract will be made to the lowest responsive and responsible bidder for the GRAND TOTAL BID, subject to the availability of funds.
5. Failure to complete this Bid in its entirety may cause the bid to be considered non-responsive and may result in rejection of this Bid.
6. By submitting this Bid, the undersigned also agrees and/or attests to the following:
 - (a) Bidder is registered and/or licensed to do business in the State of Hawaii and will pay such taxes on all sales made to the State of Hawaii.
 - (b) The information provided by the bidder is accurate to the best of bidder's knowledge and its contracting officer is authorized to contract on behalf of the firm and confirm the stated information.
7. The undersigned also agrees as follows:
 - (a) That the estimated quantities in this Bid are approximate only and are subject to increase or decrease.
 - (b) To complete the work whether the estimated quantities are increased or decreased at the unit prices stated in this Bid.

- (c) That the estimated quantities in this Bid are only for the purpose of comparing bids offered for the work on a uniform basis, and that the undersigned is satisfied with and will at no time dispute the estimated quantities as a means of comparing the bids.
- (d) To make no claim for anticipated profit or loss of profit because of a difference between the quantities of the various classes of work done or the material and equipment actually installed and the estimated quantities.
- (e) That if the UNIT PRICE multiplied by the estimated quantity does not equal the total price of any item in this Bid, the correct total price of the item shall be the amount arrived at by multiplying the UNIT PRICE by the estimated quantity.
- (f) That for UNIT PRICE items, payment will be made only for the actual number of units completed at the UNIT PRICE.
- (g) That the UNIT PRICE for each item in this Bid includes the cost of all materials, equipment, labor and all other incidental work required for the completion of the work.
- (h) That the basis of comparison will be the Bid.
- (i) That all bids submitted include the State of Hawaii general excise tax of four and one-half percent and markup (4.712%).
- (j) That allowance work will be paid for on a cost-plus twenty percent (20%) for overhead and profit, for work done by the Contractor's own forces, and cost-plus ten percent (10%) for overhead and profit, for work done by the Contractor's subcontractor. Furthermore, the HHFDC may require the Contractor to submit invoices, receipts and/or other information as needed.
- (k) That the liquidated damages for every calendar day of delay in the completion of the work shall be **\$1,000.00** per day as specified in the "Liquidated Damages" section of the Special Conditions.
- (l) Bidder declares that its firm was not assisted or represented by an individual who has, in a State capacity, been involved in this project or this proposed contract in the past two consecutive years.
- (m) That HHFDC reserves the right, in its sole discretion, to reject any or all bids.
- (n) That this Bid may not be withdrawn without penalty for up to sixty (60) calendar days subsequent to the opening of bids unless otherwise required by law.

- (o) That upon acceptance of this Bid, the undersigned will enter into, execute and deliver a contract in the prescribed form by HHFDC, and current state and federal tax clearances within ten (10) days after the contract is presented to the undersigned for signature or within such further time as the Procurement Officer may allow.
 - (p) That by submitting this Bid, the undersigned is declaring that if awarded a contract, the undersigned will comply with Section 11-355, Hawaii Revised Statutes, which prohibits campaign contributions from State and County government contractors during the term of their contract, where the contractor is paid with funds appropriated by a legislative body.
8. Pursuant to section 103D-310(c), HRS, all offerors, upon award of contract, shall comply with all laws governing entities doing business in the State, including HRS Chapters 237, 383, 386, 392, and 393. Offerors shall produce documents to the procuring officer to demonstrate compliance with this subsection. Any offeror making a false affirmation or certification under this subsection shall be suspended from further offerings or awards pursuant to section 103D-702, HRS. The procuring officer shall verify compliance with this subsection.
9. The following documents shall be attached to this Bid:
- (a) An affidavit in proof that the undersigned is not in default of any contract with the State of Hawaii.
 - (b) An affidavit in proof that the undersigned has not entered into any collusion with any other person with respect to the submission of this Bid or any other bid for the work.
 - (c) An affidavit in proof that the undersigned has not given or made any agreement to give any gift or gratuity in any form whatsoever to any employee of HHFDC, the employee's relatives or agents.
 - (d) Certification for Safety and Health Programs for Offers in excess of \$100,000, certifying that the undersigned will have a written safety and health plan for this project.
 - (e) Statement of Bidder's Contractor Experience.
 - (f) A valid and Current Hawaii Compliance Express (HCE) Certificate of Vendor Compliance or ALL of the following items below:
 - Current tax clearances from the Director of the Department of Taxation and the Internal Revenue Service.

- Certificate of Good Standing from the Department of Commerce and Consumer Affairs.
- Certificate of Compliance from the Department of Labor and Industrial Relations.

10. By submission of this offer, the Bidder certifies that it has indicated all apprenticeable trades it will employ for this project (excluding subcontractors) by listing all the applicable trades below:

Bidder **must** submit a complete, valid Form1 for each apprenticeable trade indicated above to qualify for the preference.

11. If this solicitation is being conducted on HlePRO, bidder agrees that awards made for this solicitation, if any, shall be done through the HlePRO system and shall therefore be subject to a mandatory .75% (.0075) transaction fee, not to exceed \$5,000 for the total contract term. This transaction fee shall be based on the total sales made against this contract, payable to Hawaii Information Consortium, LLC (HIC), the vendor administering HlePRO. HIC shall invoice the vendor directly for payment of transaction fees. Payment must be made to HIC within thirty (30) days from receipt of invoice. HIC is an intended third-party beneficiary of transaction fees, which are used to fund the operation, maintenance and future enhancements of the HlePRO system.
12. Bid samples or descriptive literature should not be submitted unless expressly requested and, regardless of any attempt by bidder to condition the bid, unsolicited bid samples or descriptive literature which are submitted at the bidder's risk will not be examined or tested, and will not be deemed to vary any of the provisions of the IFB.
13. Bidder shall designate those portions of the offer that contain trade secrets or other proprietary data that are to remain confidential, subject to HAR 3-122-30(c) and (d); and the material designated as confidential shall be readily separable from the bid in order to facilitate public inspection of the non-confidential portion of the bid.

- 14. This is an electronic procurement. Bids will be submitted online through HlePRO. Within five (5) working days from the notification of intent to award, the lowest responsive, responsible Bidder shall submit the signed original offer, with the original bid bond, as applicable. If bidder fails to comply with this requirement, the procurement officer may reject the electronically submitted bid.
- 15. Receipt of the following addenda (if any) issued by the HHFDC is acknowledged by the date(s) of receipt indicated below:

Addendum No. 1 _____ Addendum No. 2 _____

Addendum No. 3 _____ Addendum No. 4 _____

It is understood that failure to receive any such Addendum shall not relieve the Bidder from any obligation of this Proposal.

OFFICIAL ADDRESS

FIRM NAME: _____

By: _____

Title: _____

Date: _____

ACKNOWLEDGEMENT OF LIQUIDATED DAMAGES

Project: Kaiiau Avenue Roadway Rehabilitation Project – Phase I
Kapolei (Ewa), Oahu, Hawaii

This is to certify that the undersigned understands and agrees to the provisions for liquidated damages contained in the bid to which this acknowledgement is attached, and that submittal of a bid constitutes acceptance of the provision and amount of liquidated damages for delay that shall be assessed at \$1,000 per calendar day.

By: _____

Firm: _____

Date: _____

Failure to submit this form with the bid may be cause for the rejection of bid.

WAGE CERTIFICATE

Project: Kaiiau Avenue Roadway Rehabilitation Project – Phase I

The undersigned bidder certifies that in performing the services required for the above project, the services will be performed under the following conditions:

- a. All applicable laws of the federal and state governments relating to workers' compensation, unemployment compensation, payment of wages, and safety will be fully complied with. Any construction repair work performed in excess of \$2,000 will require that employees be paid per Chapter 104, Hawaii Revised Statutes, Wages and Hours of Employees on Public Works.

- b. The published Hourly Wage Rate Schedule may be obtained from the Department of Labor and Industrial Relations web site below:

<https://labor.hawaii.gov/wsd/prevailing-wages-wage-rate-schedule/>

By: _____

Firm: _____

Date: _____

Failure to submit this form with the bid may be cause for the rejection of the bid.

LISTING OF JOINT CONTRACTORS AND SUBCONTRACTORS

The following shall be attached to and be considered a part of the bid:

The bidder certifies that the following is a complete listing of all joint contractors or subcontractors covered under Hawaii Revised Statutes, Chapter 444, who will be engaged by the bidder on this Project to perform the nature and scope of work indicated pursuant to Hawaii Revised Statutes, section 103D-302 and understands that failure to comply with this requirement shall be just cause for rejection of the bid.

The bidder further understands that only those joint contractors or subcontractors listed shall be allowed to perform work on this Project and that all other work necessary shall be performed by the bidder with his own employees. If no joint contractor or subcontractor is listed, it shall be construed that all the work shall be performed by the bidder with his own employees.

All bidders must be sure that they possess and that the subcontractors listed in the proposal possess all the necessary specialty licenses needed to perform the work for this project. The bidder shall be solely responsible for assuring that all specialty licenses required to perform the work are set forth in his bid.

(Complete Firm Name and Contractor's License No. and indicate whether Joint Contractor or Subcontractor)

Name of Joint Contractor or Subcontractor	Nature and Scope of Work	License Number and Specialty Classification Number

**CERTIFICATION OF COMPLIANCE
WITH HRS 396-18, SAFETY AND HEALTH PROGRAMS**

SUBJECT: Kaiiau Avenue Roadway Rehabilitation Project – Phase I
JOB NO. 22-009-K85-S

This is to certify that the undersigned will comply with the requirements of HRS § 396-18, as follows:

- (A) Pursuant to HRS § 396-18, all bids and proposals in excess of \$100,000 shall include a signed certification from the bidder that a written safety and health plan for the job will be available and implemented by the notice to proceed dates of the project. The written safety and health plan shall include:
 - 1) A safety and health policy statement reflecting management commitment;
 - 2) A description of the safety and health responsibilities of all levels of management and supervisors on the job, and a statement of accountability appropriate to each;
 - 3) The details of:
 - a. The mechanism for employee involvement in job hazard analysis;
 - b. Hazard identification, including periodic inspections and hazard correction and control;
 - c. Accident and “near-miss” investigations; and
 - d. Evaluations of employee training programs.
 - 4) A plan to encourage employees to report hazards to management as soon as possible and to require management to address these hazards promptly; and
 - 5) A certification by a senior corporate or company manager that the plan is true and correct.

- (B) Failure to submit the required certification may be grounds for disqualification of the bid.

- (C) Failure to have available on site or failure to implement the written safety and health plan by the project’s Notice to Proceed Dates shall be considered willful noncompliance and be sufficient grounds to disqualify the award and terminate the contract.

BIDDER: _____

BY: _____

Signature of Person Authorized to Sign This Bid

Please Print

NAME: _____

TITLE: _____

DATE: _____

Failure to submit this form with the bid may be cause for the rejection of the bid.

ITEM #2

Revised Section SP 36 dated rl 1/10/22

Amend SECTION 36 ADJUSTMENT OF EXISTING UTILITY STRUCTURES TO FINISHED GRADE to read as follows:

"SECTION SP 36 - ADJUSTMENT OF EXISTING UTILITY STRUCTURES TO FINISHED GRADE

SP 36.1 GENERAL

This section is for the adjustment and/or reconstruction of existing manhole and handhole frame and covers, valve boxes, and street survey monument castings to finished grade. This section also covers the inspection and assessment of existing manholes within the roadway for existing debris and identification of any required reconstruction, including replacement of missing covers. Work shall be performed in accordance with the requirements and standards of the respective utility company and agency. Sewer manholes shall be adjusted and/or reconstructed per the plan details. For this Project, wrap seals and epoxy coatings will not be required for sewer manholes. The Contractor shall notify, provide updated work schedules, and coordinate their work with the affected utility company and agency, prior to the commencement of work on the existing utilities and final adjustment of utility to finished grades and manhole inspections.

SP 36.2 INSPECTION AND ASSESSMENT

- A. Pre-construction. The Contractor shall coordinate and arrange for a field inspection with the various utility company or agency and document the existing condition of the manholes, handholes, valve boxes, and street survey monuments within three (3) weeks of the Notice to Proceed date. An assessment of the existing frame and cover shall also be made at the time of inspection to determine the necessary work to lower or raise the frame and covers to meet the finished roadway grade by either an adjustment or reconstruction of the utility structure. The Contractor shall verify and document existing condition of the street survey monument pin and structure.

The inspection documentation shall include, but is not limited to, photographs; sketches; the amount and type of debris inside the manholes; and existing construction of the utility structure frame and covers and indication of adjustment or reconstruction of the utility structure to meet the finished roadway grades. The Contractor shall submit a copy of the documentation to the HHFDC.

If any debris is present, the Contractor shall notify the affected utility company or agency in writing to have the debris cleaned out and removed prior to the Contractor's work. The Contractor shall follow up with the utility company and agency in the event they are unable to clean out their manholes prior to the Contractor's work, the Contractor shall document this condition.

- B. Post-construction. Upon completion of the Contractor's work, including the final adjustments/reconstruction of the utility structures, the Contractor shall coordinate and arrange for a post construction field inspection with the various utility

company or agency to document and verify that no additional debris from the Contractor's work are in the manholes. Similar documentation to the pre-construction inspection shall be prepared and a copy forwarded to the HHFDC.

Any debris in the manholes as a result of the construction operations shall be removed immediately by the Contractor or the utility company or agency at the Contractor's expense. The removed debris shall be disposed of at an approved disposal site.

- C. The Contractor shall arrange, obtain the street usage permit and provide all traffic controls for the pre-construction and post-construction manhole inspections. The Contractor shall follow the traffic control requirements, as specified in Section SP 191 PROTECTION AND CONTROL OF PEDESTRIANS AND VEHICULAR TRAFFIC.

SP 36.3 CONSTRUCTION REQUIREMENTS

Prior to commencing cold planing and roadway reconstruction operations, the Contractor shall locate and mark any buried frames and covers and exercise due diligence in locating and protecting any buried manhole, handhole and/or valve box frames and covers. The existing buried frames and covers shall be adjusted to finished grades. The Contractor shall be responsible for and shall pay for all damages to existing buried street monument, manhole, handhole and/or valve box frames and covers. The HHFDC shall not be responsible for damages to the Contractor's equipment resulting from any conflicts with existing buried manhole, handhole and/or valve box frames and covers.

The Contractor shall photo document any buried street survey monuments, manhole and/or valve box frames and covers. The photos shall clearly show that they were not visible from the surface and labeled with the adjacent street address for reference. Clear and complete documentation is required for payment.

The Contractor shall be responsible for referencing/labeling the existing frame and covers to ensure that the pair is correctly matched during reinstallation and aligned to the pre-existing condition to prevent rattling and/or noise. The means and methods for referencing is the Contractor's responsibility; as such, any rattling shall be addressed by the Contractor.

The Contractor shall furnish and install temporary mechanical plugs or alternate means to prevent and minimize debris from entering existing manholes and handholes, including sewer manholes. Any debris entering the manholes during construction shall be removed immediately by the Contractor or the utility agency at the Contractor's expense. The Contractor shall remove temporary mechanical plugs or alternate means after final adjustment/reconstruction of utility structure to finished grade is complete.

Anytime the Contractor's means and methods deny access by removal, substitution or paving over of manhole and valve boxes; the Contractor shall provide the utility agencies with a 24/7 contact number and named individual or representative of the company. The individual shall be responsible to

provide immediate response at all times to provide access whenever required for emergencies and maintenance.

The Contractor shall be held responsible for the actual cost of clean-up, criminal and civil fines resulting from sewer spills, backups, and overflow as a result of the Contractor's work.

The Contractor shall adjust and restore existing manhole and handhole frames and covers, valve boxes, and street survey monument castings to finished grade within 45 calendar days from the day these structures are removed.

Reconstruction of any manhole shall be performed prior to final paving. The determination of any reconstruction shall be made at the pre-construction inspection of the manholes.

The Contractor shall work around existing street survey monuments. If the Contractor deems it necessary to remove existing street survey monument frame and cover, then the Contractor shall have a licensed surveyor in the State of Hawaii reference the monument prior to start of work. If the street survey monument is damaged during construction activities, then the Contractor shall be responsible for all work required to restore the street survey monument at no additional cost to the HHFDC. Restoration shall include all surveying work required to restore the street survey monument. No additional contract time shall be considered for this restoration work.

SP 36.4 MEASUREMENT AND PAYMENT

The Officer-in-Charge will not measure adjustment of existing street monument castings; storm drain manholes and handholes; traffic signal boxes; Board of Water Supply manholes, water meter boxes, and water valves; sewer manholes and facilities, telephone manholes and handholes; gas valves, manholes, and handholes; and electric manholes and handholes to finished grade for payment. The Officer-in-Charge will not pay for the accepted adjustment of existing street monument castings; storm drain manholes and handholes; traffic signal boxes; Board of Water Supply manholes, sewer manholes and facilities, water meter boxes, and water valves; telephone manholes and handholes; gas valves, manholes, and handholes; and electric manholes and handholes to finished grade separately and will consider the cost for adjustments as included in the contract prices for the various contract pay items. The cost is for the work prescribed in this section and the contract documents.

If the frames and covers of existing street survey monuments are missing or damaged, and require replacements, the Officer-in-Charge will measure the new street survey monuments' frames and covers and adjustment to finished grade per each for payment as an Additional Work Item "Additional Street Survey Monument Frame and Cover, Including Adjustment" in accordance with the contract documents. The Officer-in-Charge will pay for the accepted new street survey monuments' frames and covers and adjustment to finished grade at the contract price per each as an Additional Work Item "Additional Street Survey Monument Frame and Cover, Including Adjustment". Payment shall be full compensation for furnishing the necessary material, equipment, and labor to complete the work in place prescribed in this section and the contract documents.

END OF SECTION SP 36

ITEM #3

Revised Section SP 204 dated rl 1/10/22

The following section shall be made a part of the Standard Specifications:

"SECTION SP 204 - ARCHAEOLOGICAL MONITORING

SP 204.1 GENERAL

In the event that any subsurface historic resources, including human skeletal remains, structural remains, cultural deposits, artifacts, sand deposits, or sink holes are identified during the demolition and/or construction work, cease work in the immediate vicinity of the find, protect the find from additional disturbance, and immediately notify the Officer-in-Charge, the Honolulu Police Department, and the State Historic Preservation Division, Department of Land and Natural Resources by phone at (808) 692- 8015 to assess the significance of the find and recommend appropriate mitigation measures, if necessary. Inadvertent finds of human remains shall be treated in accordance with the provisions of Chapter 6E-43.6, HRS and HAR 13-300-40. Subsequently, if HHFDC or the State Historic Preservation Officers require it, the Contractor shall engage the services of a professional archaeologist to assist HHFDC to work and coordinate with the State Historic Preservation Officers.

SP 204.2 QUALIFIED ARCHAEOLOGIST REQUIREMENTS

A Qualified Archaeologist shall be approved by the State Historic Preservation Division (SHPD), meet minimal National Park Service standards as an archaeologist, and shall have the following professional qualifications:

- A. A graduate degree from an accredited institution in archaeology, or anthropology, with a specialization in archaeology, or an approved substitute field;
- B. At least one year of cumulative archaeological experience in Hawaii or the Pacific;
- C. At least four months of supervised archeological field and analytic experience in Hawaii;
- D. At least one year of archaeological research, administration, or management at a supervisory level with at least four months of field experience;
- E. A demonstrated ability to carry research to completion, as shown by completed theses, publications, and manuscripts; and
- F. A demonstrated knowledge of historic preservation laws, rules, and guidelines.

A link for the list of permitted Archaeological Consultants in the State of Hawaii is available on the page below:

<http://dlnr.hawaii.gov/shpd/about/branches/archaeology/>

The Contractor shall submit the qualifications of the archaeologist prior to the start of the archaeologist work.

SP 204.3 MONITORING

Archaeologist's Role. The Qualified Archaeologist shall have the

authority to stop work immediately in the area of any findings so that documentation can proceed and appropriate treatment can be determined. In addition, the Qualified Archaeologist shall have the authority to slow and/or suspend construction activities in order to ensure that the necessary archaeological sampling and recording can take place.

SP 204.4 MEASUREMENT AND PAYMENT

The Officer-in-Charge will pay for archaeological monitoring on an allowance basis only as authorized by the Officer-in-Charge. Payment will be full compensation for all work prescribed in this section, and any other archaeological-related work directed by the Officer-in-Charge. The unused portion of the allowance item shall remain with the HHFDC upon completion of the contract."

END OF SECTION SP 204

ITEM #4

IFB Drawings

Sheets 2, 9, 10, 11, 12, 13, 14, 15, 16, 36, 37, 53 & 54,

dated 11/10/22

GENERAL CONSTRUCTION NOTES:

1. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986 AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU AND THE COUNTIES OF KAUAI, MAUI, AND HAWAII.
2. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST FROM RESEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
3. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING CITY DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH APPLICABLE PROVISIONS HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS," AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AS WELL AS CHAPTER 14 OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE(S) FOR THE FOLLOWING:

1. STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) ACRE OR MORE, AND
2. DISCHARGES OF HYDROTASTING EFFLUENT, DEWATERING EFFLUENT, AND WELL DRILLING EFFLUENT TO STATE WATERS.

IN ACCORDANCE WITH STATE LAW, ALL DISCHARGES RELATED TO THE PROJECT CONSTRUCTION OR OPERATIONS ARE REQUIRED TO COMPLY WITH STATE WATER QUALITY STANDARDS (HAWAII ADMINISTRATIVE RULES, CHAPTER 11-54). BEST MANAGEMENT PRACTICES SHALL BE USED TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENT, DEBRIS, AND OTHER POLLUTANTS TO STATE WATERS. PERMIT COVERAGE IS AVAILABLE FROM THE DEPARTMENT OF HEALTH, CLEAN WATER BRANCH AT [HTTP://HEALTH.HAWAII.GOV/CWB](http://health.hawaii.gov/cwb). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING OTHER FEDERAL, STATE OR LOCAL AUTHORIZATIONS AS REQUIRED BY LAW.

5. CONFINED SPACE
FOR ENTRY BY CITY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(b), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:
 - I. ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
 - A. FULL BODY HARNESSES FOR UP TO TWO PERSONNEL,
 - B. LIFELINE AND ASSOCIATED CLIPS,
 - C. INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT,
 - D. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT,
 - E. EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION),
 - F. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE,
 - G. CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE OF AT LEAST 20- FEET AWAY),
 - H. PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.
 - II. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.
 - III. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT).
 - IV. ALL SAFETY EQUIPMENT SHALL COMPLY WITH THE STANDARDS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL APPLICABLE FEDERAL, STATE, AND CITY LAWS AND REGULATIONS RELATING TO SAFETY.
6. PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT THAT SUBSURFACE HISTORIC RESOURCES, INCLUDING HUMAN SKELETAL REMAINS, STRUCTURAL REMAINS, CULTURAL DEPOSITS, ARTIFACTS, SAND DEPOSITS, OR SINK HOLES ARE IDENTIFIED DURING THE DEMOLITION AND/OR CONSTRUCTION WORK, CEASE WORK IN THE IMMEDIATE VICINITY OF THE FIND, PROTECT THE FIND FROM ADDITIONAL DISTURBANCE, AND CONTACT THE STATE HISTORIC PRESERVATION DIVISION, AT (808) 692-8015.
7. FOR PROJECTS ABUTTING STATE HIGHWAYS' RIGHTS-OF-WAY, THE OWNER OR AUTHORIZED REPRESENTATIVE SHALL NOTIFY THE STATE DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, OAHU DISTRICT, DRAINAGE DISCHARGE UNIT AT 831-6793 FOR AN ASSESSMENT OF STATE HIGHWAYS PERMIT REQUIREMENTS.
8. ANY EXISTING PAVEMENT AND PAVEMENT MARKINGS THAT ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL, OR BETTER, CONDITION. SUCH RESTORATION SHALL BE TO THE SATISFACTION OF THE OFFICER-IN-CHARGE AT CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE ALL WORK.

GENERAL CONSTRUCTION NOTES (Cont'd):

10. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION ALL IMPROVEMENTS DAMAGED AS A RESULT OF CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL, DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCLUDED IN COST OF THE VARIOUS CONTRACT ITEMS.
 11. THE EXISTING IMPROVEMENTS WITHIN THE RIGHT-OF-WAY THAT ARE NOT TO BE REMOVED SHALL BE PRESERVED AND PROTECTED. ANY AND ALL DAMAGES RESULTING FROM THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE REPLACED AND REPAIRED TO ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND PAID FOR BY THE CONTRACTOR.
 12. UNLESS RELOCATION IS CALLED FOR ON THE PLANS, EXISTING UTILITIES SHALL REMAIN IN SERVICE AND IN PLACE. IF RELOCATION OF EXISTING UTILITIES IS REQUIRED FOR THE CONTRACTOR'S CONVENIENCE, INTERRUPTION OF SERVICE SHALL BE KEPT TO A MINIMUM AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND ONLY WITH THE APPROVAL OF THE OFFICER-IN-CHARGE.
 13. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND SERVICES TO PROPERLY PERFORM AND FULLY COMPLETE ALL WORK SHOWN ON CONTRACT, DRAWINGS AND SPECIFICATIONS.
 14. ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS SHALL BE CHECKED AND VERIFIED PRIOR TO THE START OF CONSTRUCTION, AND ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OFFICER-IN-CHARGE FOR CLARIFICATION.
 15. ALL CONSTRUCTION WORK SHALL IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE WILL BE REDUCED TO THE MAXIMUM EXTENT PRACTICABLE AND WILL NOT CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF WATER QUALITY STANDARDS.
 16. FOR ALL PROJECTS, WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND, THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL A NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII, AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM. FOR CITY OR OTHER GOVERNMENTAL PROJECTS, THE CONTRACTOR SHOULD PROVIDE A WRITTEN COPY OF THE NGPC TO THE APPROPRIATE CITY DEPARTMENT OR GOVERNMENTAL AGENCY PER THEIR REQUIREMENTS.
- SEWER NOTES:
1. ALL SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY'S "STANDARD SPECIFICATIONS," SEPT. 1986, THE DEPARTMENT OF ENVIRONMENTAL SERVICES "WASTEWATER SYSTEM DESIGN STANDARDS," JULY 2017, AND "WASTEWATER SYSTEM STANDARD DETAILS," JULY 2017, CURRENT CITY PRACTICES AND REVISED ORDINANCES OF HONOLULU, 1990 AS AMENDED.
 2. IN THE EVENT THAT ANY CHANGE IN ALIGNMENT OR GRADE FOR THE PROPOSED SEWERS ARE REQUIRED DUE TO UNFORESEEN CONFLICT WITH OTHER UTILITIES, THE ENGINEER IN CHARGE OR THE MAKER OF THE PLANS SHALL BE RESPONSIBLE FOR THE REQUIRED CHANGES WHICH ARE TO BE PRESENTED TO THE DEPARTMENT OF PLANNING AND PERMITTING (DPP) FOR APPROVAL.
 3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGEMENT BRANCH, WASTEWATER ENGINEERING AND CONSTRUCTION DIVISION, ENV, AT 768-8785, 768-8769, OR 768-8755 TO ARRANGE FOR INSPECTION SERVICES AND SUBMIT FOUR (4) SETS OF APPROVED CONSTRUCTION PLANS TO THE WASTEWATER BRANCH, DPP SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF SEWER WORK. THE CONTRACTOR SHALL PAY FOR ALL INSPECTION COSTS.
 4. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS RESEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE FACILITIES, INCLUDING AND AFFECTING SEWER LINES, IN THE PRESENCE OF THE WASTEWATER INSPECTOR AND EXERCISE PROPER CARE IN EXCAVATING THE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL PAY FOR ALL DAMAGED UTILITIES.
 5. SEWER LATERALS SHALL BE CLEAR OF AND NOT CONFLICTING WITH ANY OTHER UTILITY. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES SHALL BE STRICTLY OBSERVED AND FOLLOWED.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS SEWER SERVICE TO ALL AFFECTED AREAS DURING CONSTRUCTION.
 7. THE CONSULTING ENGINEER SHALL SUBMIT TO THE WASTEWATER BRANCH, DPP "AS-BUILT" TRACINGS AND ELECTRONIC FILES OF THE CONSTRUCTION PLANS AS ACTUALLY CONSTRUCTED, SHOWING ALL CHANGES FROM THE ORIGINAL PLANS.
 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEWAGE SPILLS CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE STATE DEPARTMENT OF HEALTH AND UTILIZE APPROPRIATE SAMPLING AND ANALYZING PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC NOTIFICATIONS AND PRESS RELEASES.

SEWER NOTES (Cont'd):

9. CONFINED SPACE
FOR ENTRY BY CITY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT-REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(b), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:
 1. ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
 - a. FULL BODY HARNESSES FOR UP TO TWO PERSONNEL.
 - b. LIFELINE AND ASSOCIATED CLIPS.
 - c. INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT.
 - d. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.
 - e. EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).
 - f. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.
 - g. CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20- FEET AWAY).
 - h. PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.
 2. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.
 3. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT).
10. FOR SEWER MANHOLE ADJUSTMENTS UPWARD LESS THAN 3", SEE STD. DETAIL S-28. FOR SMH ADJUSTMENTS UPWARD GREATER THAN 3" OR FOR ANY ADJUSTMENTS DOWNWARD, RECONSTRUCT SMH TOP FROM BELOW THE CONE SECTION.
11. IF THE CONTRACTOR ENCOUNTERS FLOW MONITORING DEVICES, SUCH AS SPECIAL SEWER MANHOLE COVERS EMBEDDED WITH SOLAR PANELS, CONTACT COLLECTION SYSTEMS MAINTENANCE (CSM), ENV AT 768-7272 TO COORDINATE TEMPORARY REMOVAL.
12. THE CONTRACTOR SHALL MAINTAIN VISIBILITY AND MAINTENANCE ACCESS TO LIVE SEWER MANHOLE LOCATIONS AT ALL TIMES, INCLUDING DURING NON-WORK HOURS AND PAVING OPERATIONS.
13. THE CONTRACTOR SHALL USE A MANHOLE DEBRIS CATCHING DEVICE WHEN PERFORMING MANHOLE HEIGHT ADJUSTMENT WORK AND REMOVE ANY CONSTRUCTION DEBRIS THAT HAS FALLEN INTO THE MANHOLE. DISPOSAL OF CONSTRUCTION DEBRIS IN THE SEWER SYSTEM IS STRICTLY PROHIBITED.

PUBLIC HEALTH, SAFETY AND CONVENIENCE NOTES:

1. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY.
2. THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. THE CITY AND COUNTY OF HONOLULU SHALL REQUIRE SUPPLEMENTARY MEASURES AS NECESSARY.

MECHANICAL/ELECTRICAL DIVISION NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE JOINT POLE COMMITTEE TWO (2) WEEKS IN ADVANCE OF ANY RELOCATION OF UTILITY POLE(S) THAT MAY BE NECESSARY.
2. THE CONTRACTOR SHALL NOTIFY THE MECHANICAL/ELECTRICAL DIVISION, DDC, THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK ON THE STREET LIGHTING SYSTEM (PHONE: 768-8431).
3. THE STREET LIGHTING SYSTEM SHALL BE KEPT OPERATIONAL DURING CONSTRUCTION. ANY RELOCATION REQUIRED SHALL BE APPROVED BY THE MECHANICAL/ELECTRICAL DIVISION, DDC, AND PAID FOR BY THE CONTRACTOR.
4. THE LOCATIONS OF THE EXISTING UNDERGROUND STREET LIGHT FACILITIES SHOWN ON THE PLANS ARE FROM EXISTING PLANS AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CONSTRUCTION CROSSES OR IS IN CLOSE PROXIMITY TO THE EXISTING STREET LIGHT FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE EXISTING STREET LIGHT FACILITIES. ANY AND ALL DAMAGES TO THESE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S COST IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY AND COUNTY OF HONOLULU.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE CITY'S EXISTING COMMUNICATIONS FIBER OPTIC CABLE SYSTEM. ANY AND ALL DAMAGES TO THESE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S COST IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY AND COUNTY OF HONOLULU.

WATER NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES IN THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CITY AND COUNTY OF HONOLULU BOARD OF WATER SUPPLY'S "WATER SYSTEM STANDARDS", DATED 2002, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", VOLUME 3, DATED 2021, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.

WATER NOTES (Cont'd):

2. ALL PLANS APPROVED BY THE BOARD OF WATER SUPPLY ARE BASED ON THE ADEQUACY OF THE WATER SUPPLY AND/OR IF WORK IS TO BE DONE ON/OR NEAR THE WATER SYSTEM.
3. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT IS NOT GUARANTEED AS TO THEIR ACCURACY OR THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES ARE SHOWN, THAT NONE EXIST.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING SERVICE LATERAL LOCATIONS WHETHER SHOWN OR NOT SHOWN ON PLANS PRIOR TO COMMENCING WITH ANY OF THE WORK AND SHALL NOT ASSUME THAT WHERE NO SERVICES ARE SHOWN NONE EXIST.
5. THE CONTRACTOR SHALL ADJUST ALL MANHOLE FRAMES/VALVE BOXES/METER BOXES WITHIN THE RECONSTRUCTED AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR "REFERENCING" THESE MANHOLES/VALVE BOXES/METER BOXES TO FACILITATE THE ADJUSTMENT.
6. PRIOR TO ANY EXCAVATING, THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION OF EXISTING WATERLINES AND APPURTENANCES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATER LINES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE ESPECIALLY CAREFUL WHEN EXCAVATING BEHIND WATER LINES, TEES, AND BENDS WHEREVER THERE IS A POSSIBILITY OF WATER LINE MOVEMENT DUE TO THE REMOVAL OF THE SUPPORTING EARTH BEYOND THE EXISTING REACTION BLOCKS. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES NECESSARY TO PROTECT THE WATER LINES, SUCH AS CONSTRUCTING SPECIAL REACTION BLOCKS (WITH BWS APPROVAL) AND/OR MODIFYING CONSTRUCTION METHOD.
8. TWO-WAY BLUE REFLECTIVE HYDRANT MARKERS TYPE DB SHALL BE INSTALLED AT ALL FIRE HYDRANT LOCATIONS.
9. THE CONTRACTOR SHALL NOTIFY THE BWS CAPITAL PROJECTS DIVISION, CONSTRUCTION SECTION IN WRITING ONE (1) WEEK PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
10. RE-APPROVAL SHALL BE REQUIRED IF THIS PROJECT IS NOT UNDER CONSTRUCTION WITHIN A PERIOD OF TWO (2) YEARS.
11. MAINTAIN 3'-0" MINIMUM COVER FOR ALL EXISTING WATERLINES FROM NEW FINISH GRADE.
12. ANY ADJUSTMENTS TO THE EXISTING WATER SYSTEM REQUIRED DURING CONSTRUCTION, TO MEET THE MINIMUM COVER AND THE REQUIREMENTS OF THE BOARD OF WATER SUPPLY STANDARDS, WHETHER SHOWN ON PLANS OR NOT, SHALL BE DONE BY THE CONTRACTOR AT NO COST TO THE BOARD OF WATER SUPPLY.

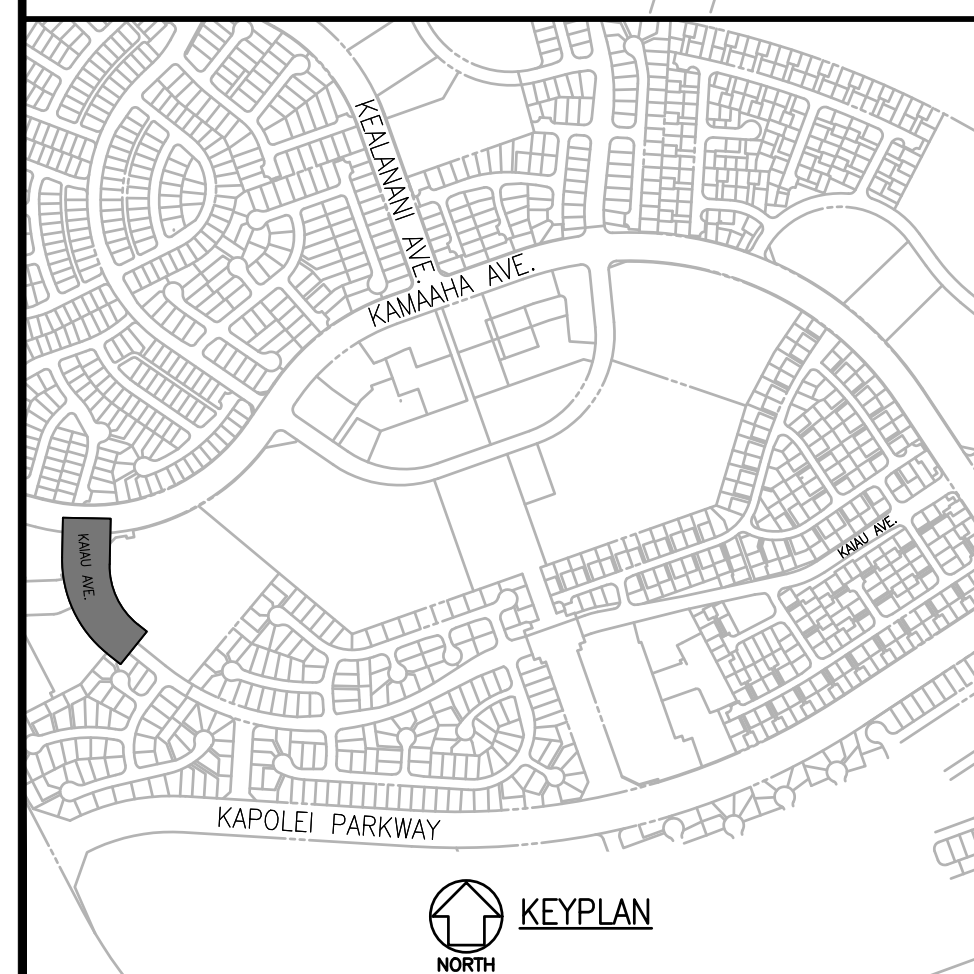
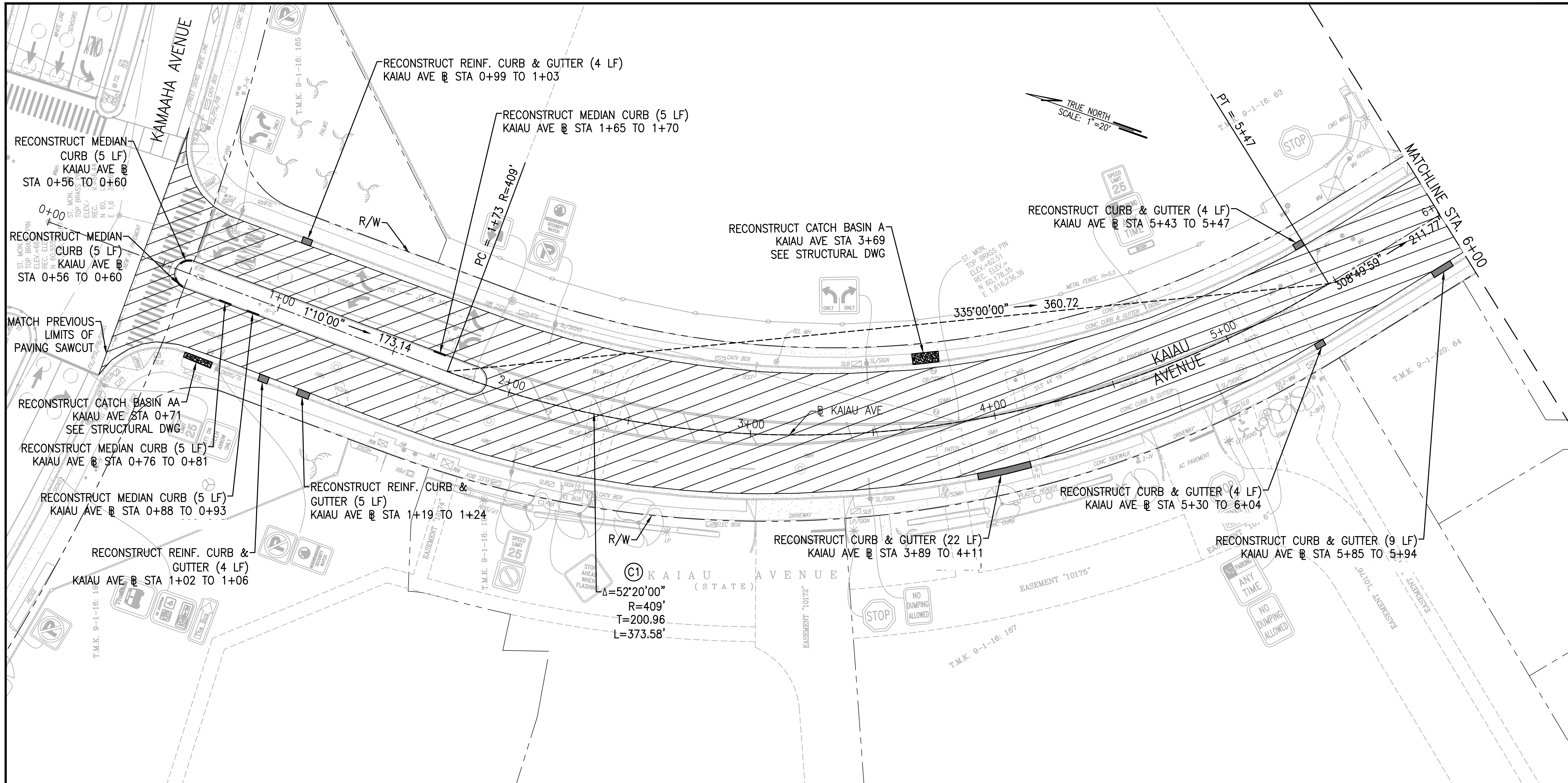
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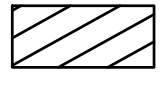


1. ADJUST ALL UTILITY VALVE BOX FRAMES & COVERS, WATER METER BOXES, MANHOLE FRAMES AND COVERS, STREET MONUMENT COVERS, ETC., TO NEW FINISH GRADE. COORDINATE WITH PRIVATE COMPANIES AND CITY AGENCIES FOR WORK ON EACH RESPECTIVE UTILITY.

HONOLULU FIRE DEPARTMENT (HFD) NOTE:

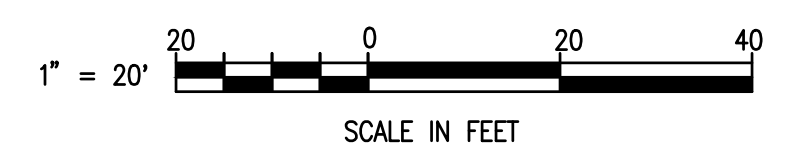
1. THE CONTRACTOR SHALL NOTIFY THE HONOLULU FIRE DEPARTMENT (HFD), BATTALION CHIEF ALAN CARVALHO (723-7182), 636 SOUTH STREET, HONOLULU, HAWAII, 96813 OR a.carvalho@honolulu.gov TWO WEEKS PRIOR TO CONSTRUCTION, INFORMING THEM OF LOCATION, SCOPE OF WORK, AND PROPOSED CLOSURE OF ANY STREET OR TRAFFIC LANES.


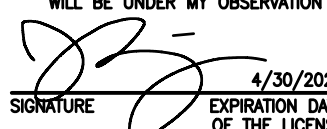
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DATE: SEPTEMBER 2022			APPROVED
		WSP USA Inc. 1001 Bishop Street, Suite 2400 Honolulu, HI 96813 TEL: +1.808.531.7094 FAX: +1.808.528.2368	
VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII			
KAIUA AVENUE ROADWAY REHABILITATION PROJECT - PHASE I HONOLULU, EWA, OAHU, HAWAII CONSTRUCTION NOTES - 1			
APPROVED:			DWG NO.
			CN-1

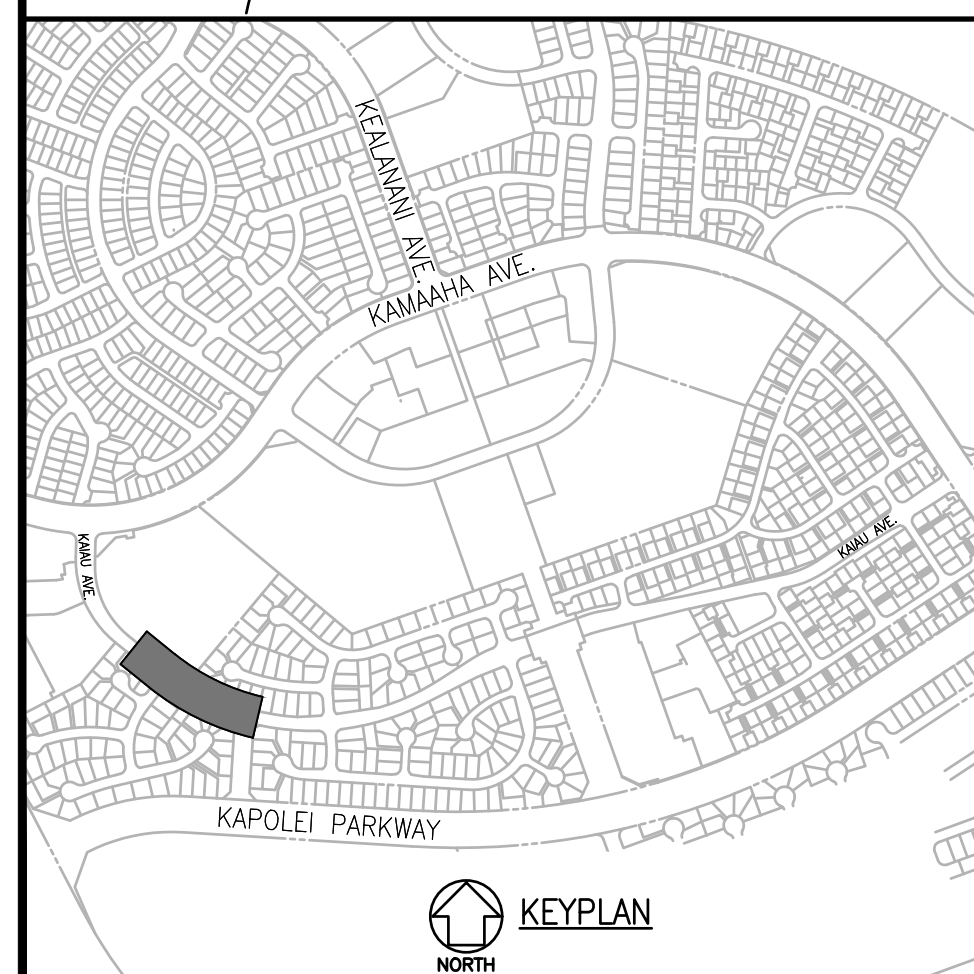
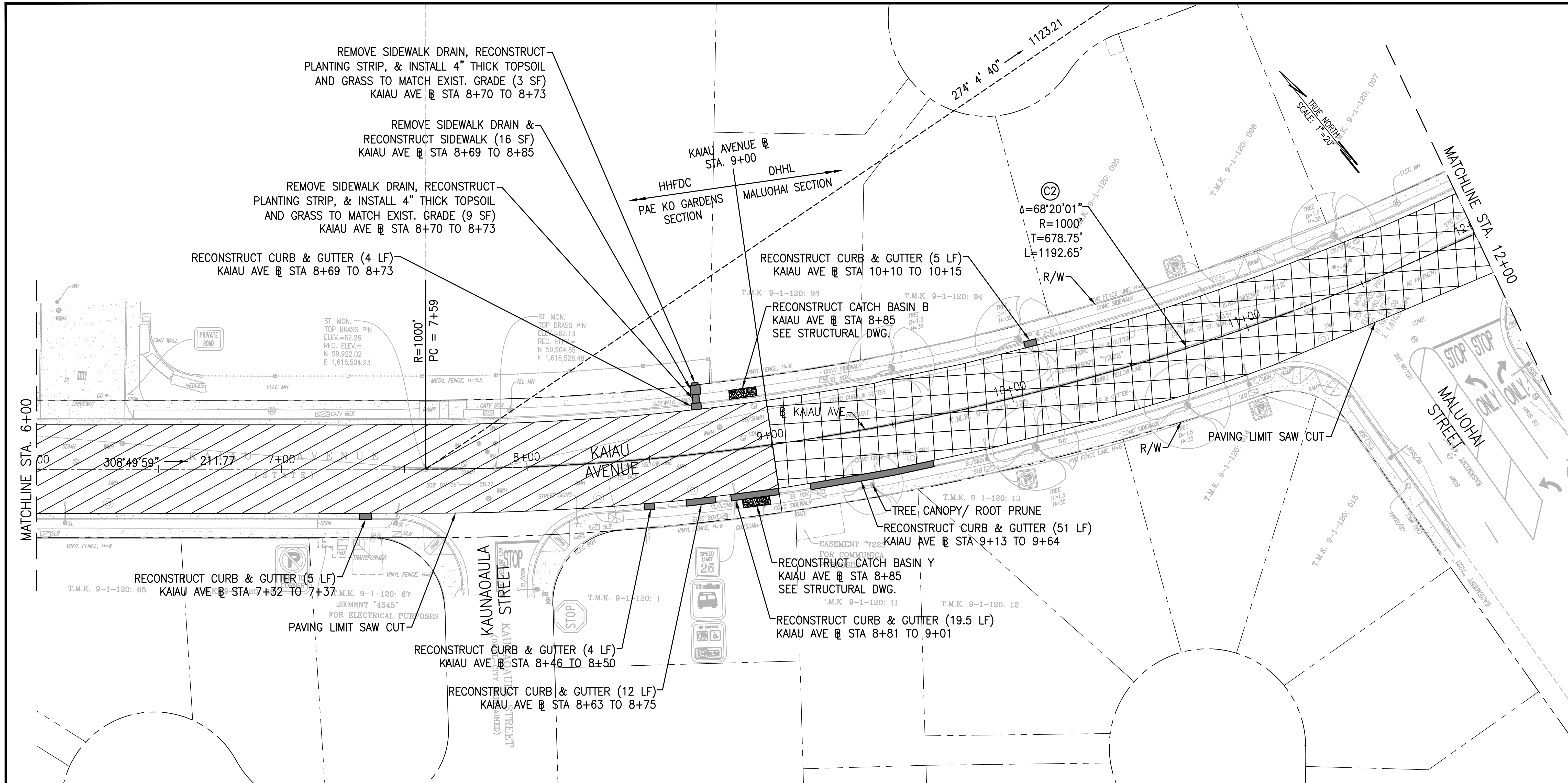


- LEGEND:**
-  REPAVING AREA
KAIUA AVENUE - PAE KO GARDENS SECTION
COLD PLANE 3" AND RESURFACE WITH 3"
STATE MIX NO. IV
 -  CONCRETE CURB/CURB & GUTTER
RECONSTRUCTION
 -  CATCH BASIN RECONSTRUCTION

- NOTES:**
1. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.
 2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO EXISTING DRAIN STRUCTURE.
 3. LIMITS AND LOCATION OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.

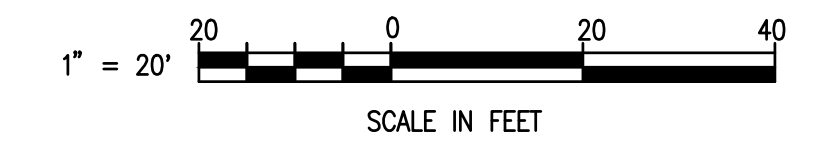


DESIGN: MN	11/10/22	REVISED TOPOGRAPHIC MAP	APPROVED
DRAWN: MN	REVISION	DATE	BRIEF
CHECKED: JS			
DATE: SEPTEMBER 2022	 WSP USA Inc. 1001 Bishop Street, Suite 2400 Honolulu, HI 96813 TEL: +1.808.531.7094 FAX: +1.808.528.2368		
VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII			
KAIUA AVENUE ROADWAY REHABILITATION PROJECT - PHASE I HONOLULU, EWA, OAHU, HAWAII ROADWAY CONSTRUCTION PLAN - 1			
APPROVED:			DWG NO.
 SIGNATURE 4/30/2024 EXPIRATION DATE OF THE LICENSE			C-1

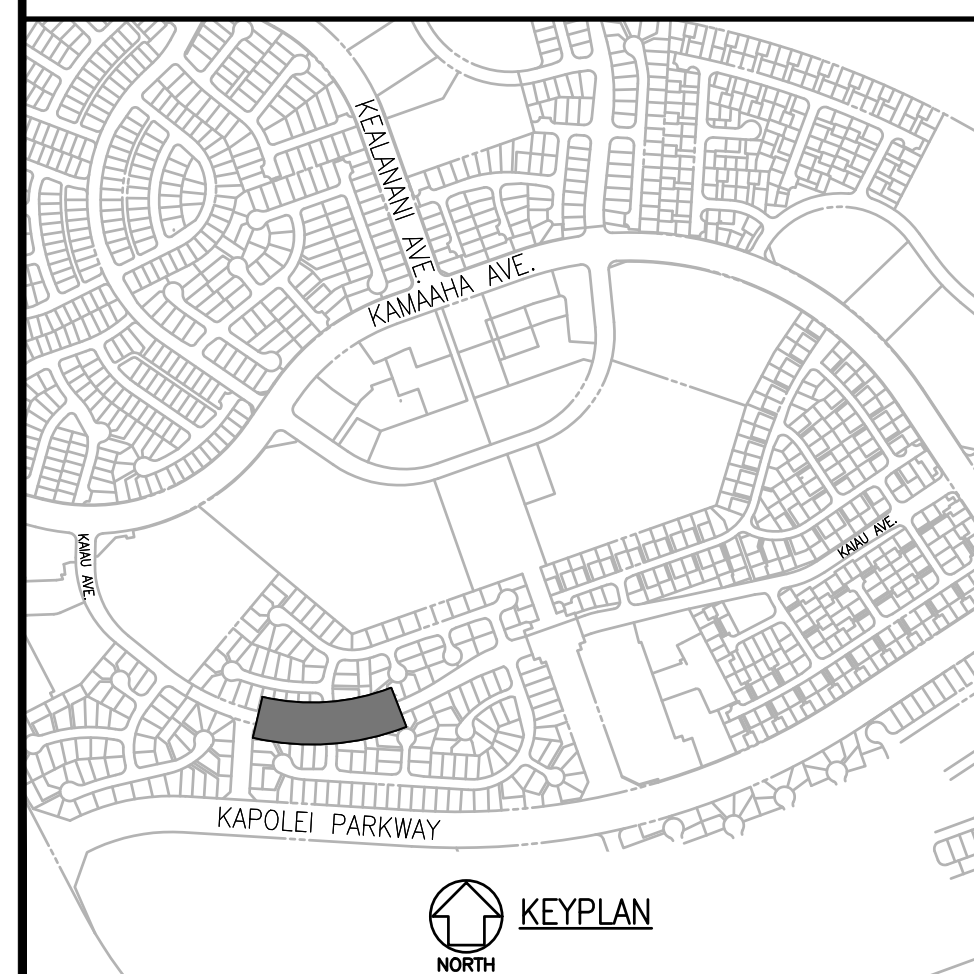
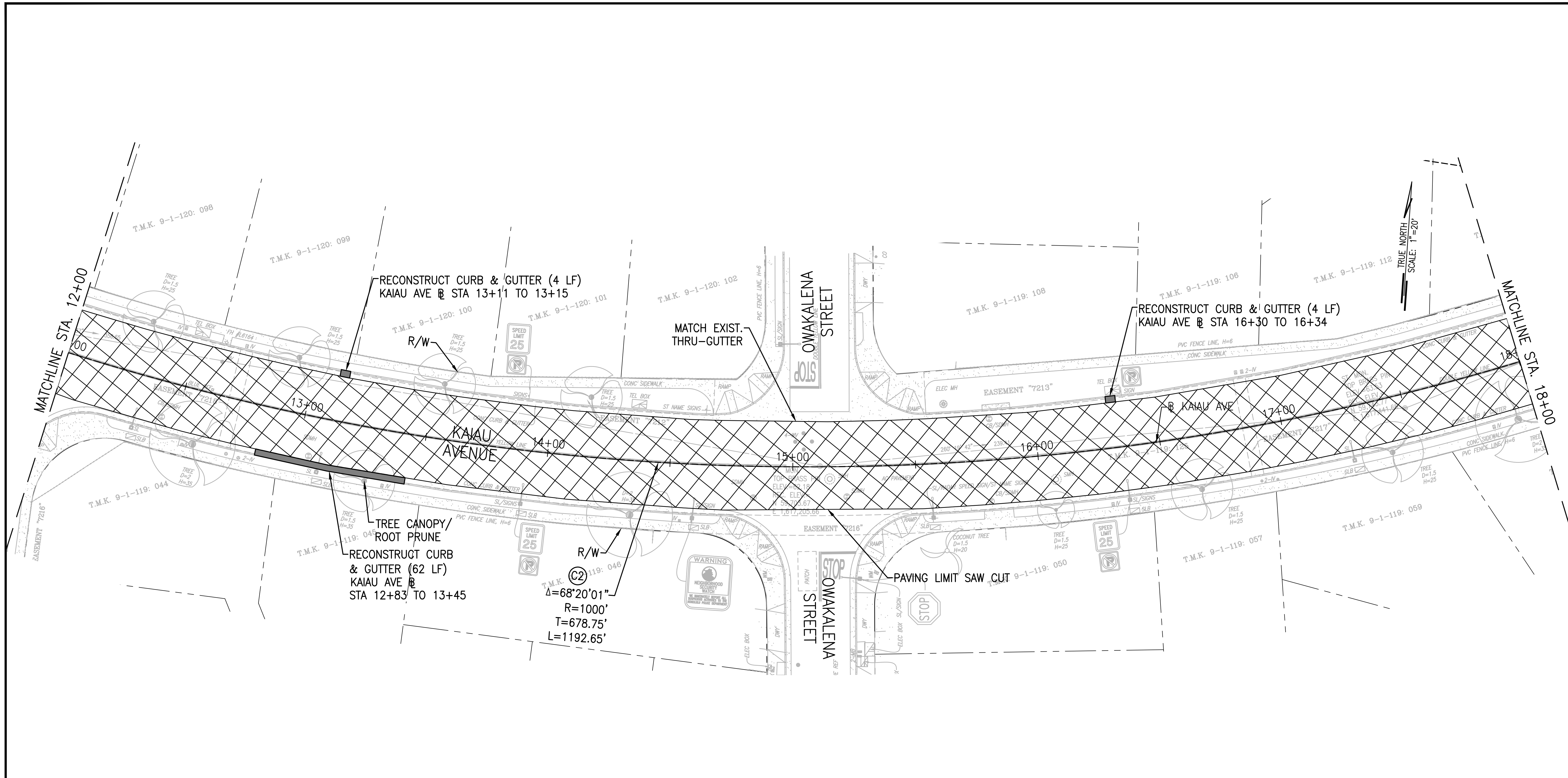





- LEGEND:**
- REPAVING AREA
KAIU AVENUE - PAE KO GARDEN SECTION
COLD PLANE 3" AND RESURFACE WITH 3"
STATE MIX NO. IV
 - REPAVING AREA
KAIU AVENUE - MALUOHAH SECTION
COLD PLANE 3" AND RESURFACE WITH 3"
STATE MIX NO. IV
 - CONCRETE CURB/CURB & GUTTER
RECONSTRUCTION
 - CATCH BASIN RECONSTRUCTION

- NOTES:**
1. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.
 2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO EXISTING DRAIN STRUCTURE.
 3. LIMITS AND LOCATION OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.

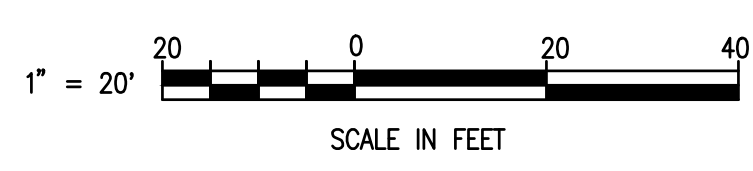





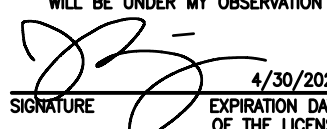
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DRAWN: MN	REVISION	DATE	BRIEF
CHECKED: JS			
DATE: SEPTEMBER 2022			
WSP USA Inc. 1001 Bishop Street, Suite 2400 Honolulu, HI 96813 TEL: +1.808.531.7094 FAX: +1.808.528.2368			
VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII			
KAIU AVENUE ROADWAY REHABILITATION PROJECT - PHASE I HONOLULU, EWA, OAHU, HAWAII ROADWAY CONSTRUCTION PLAN - 2			
APPROVED:			DWG NO.
 SIGNATURE 4/30/2024 EXPIRATION DATE OF LICENSE			C-2

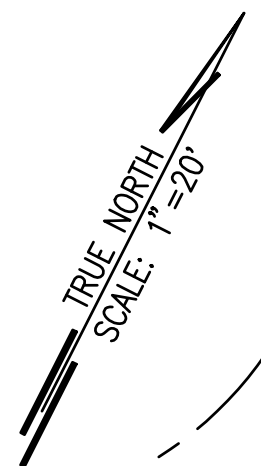
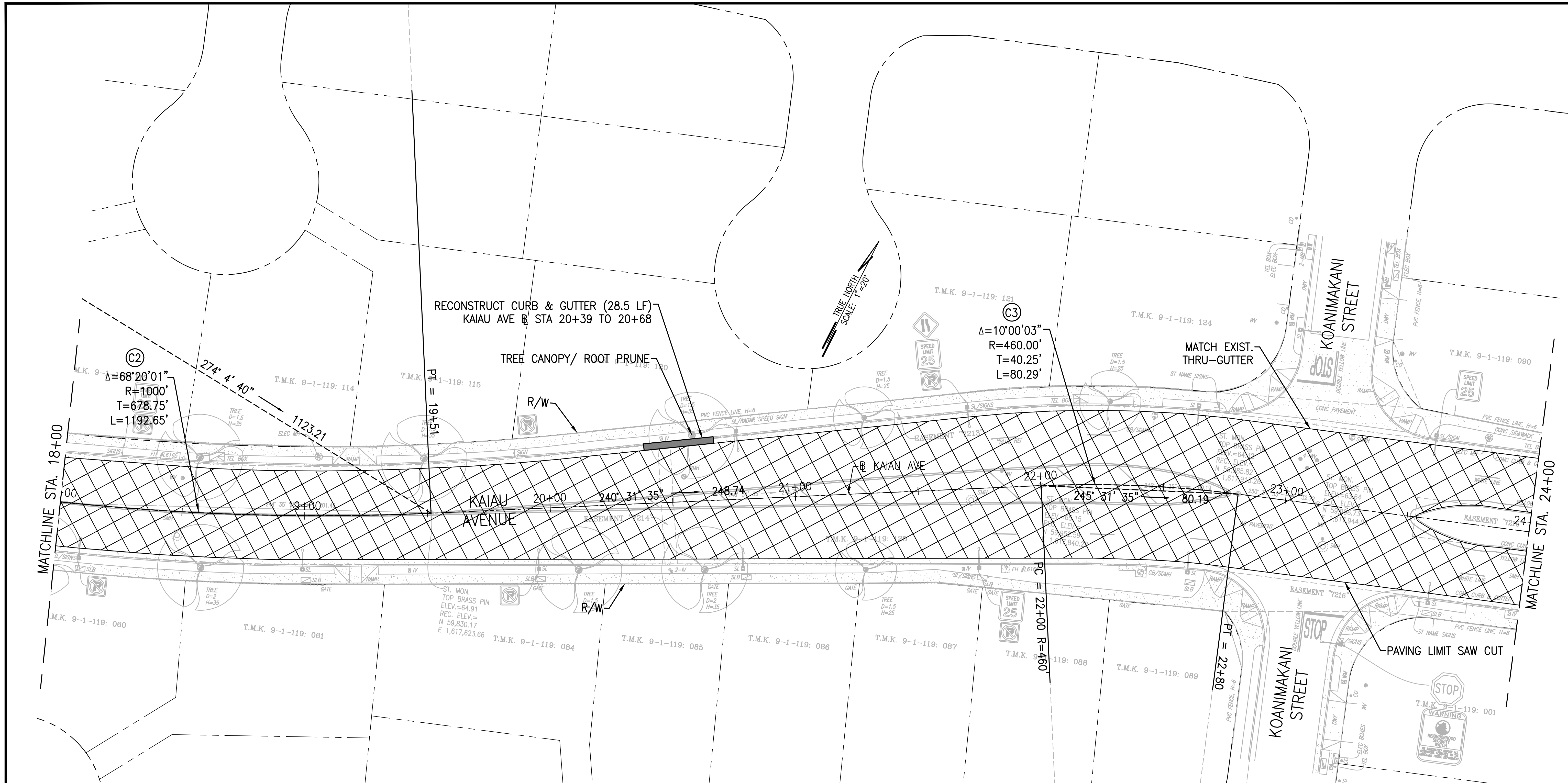


- LEGEND:**
-  REPAVING AREA
KAIU AVENUE - MALUOHAI SECTION
COLD PLANE 3" AND RESURFACE WITH 3"
STATE MIX NO. IV
 -  CONCRETE CURB/CURB & GUTTER
RECONSTRUCTION
 -  CATCH BASIN RECONSTRUCTION

- NOTES:**
1. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.
 2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO EXISTING DRAIN STRUCTURE.
 3. LIMITS AND LOCATION OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.

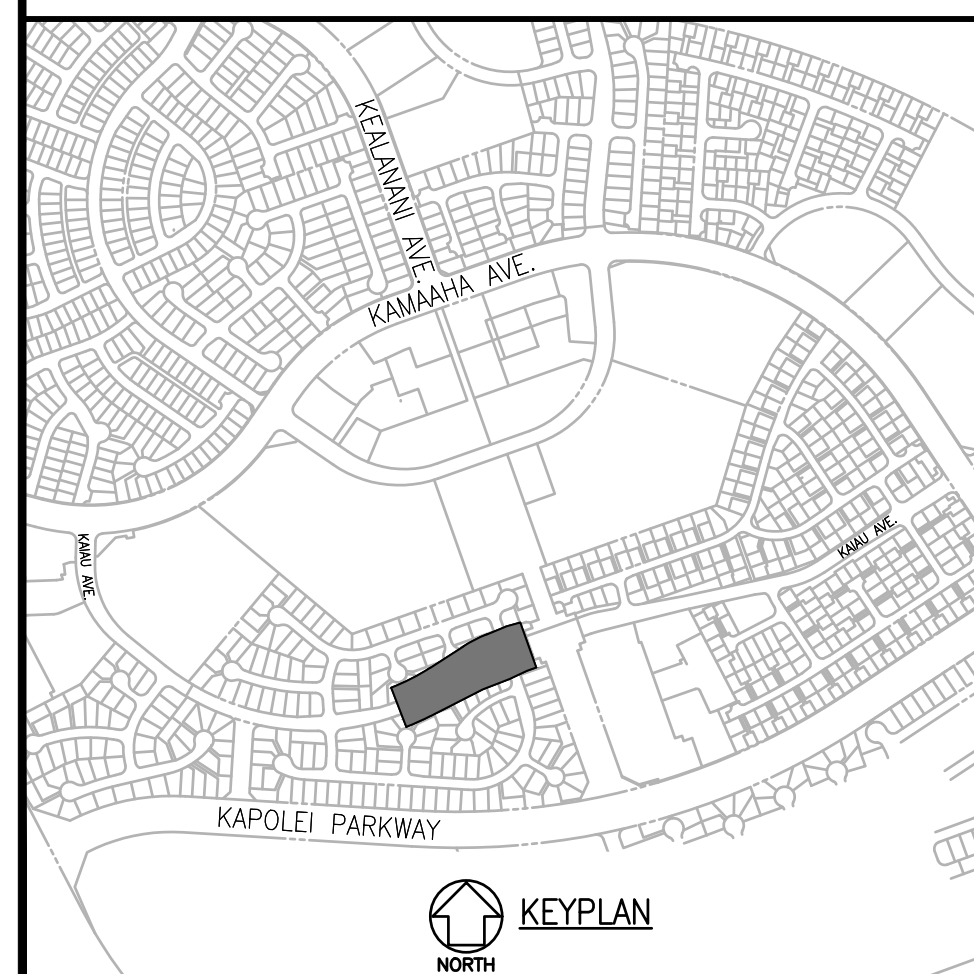


DESIGN: MN	REVISION: 	DATE: 11/10/22	BRIEF: REVISED TOPOGRAPHIC MAP	APPROVED:		
DRAWN: MN	CHECKED: JS	DATE: SEPTEMBER 2022	 WSP USA Inc. 1001 Bishop Street, Suite 2400 Honolulu, HI 96813 TEL: +1.808.531.7094 FAX: +1.808.528.2368			
						
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.			VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII			
APPROVED:  4/30/2024 <small>EXPIRATION DATE OF THE LICENSE</small>			KAIU AVENUE ROADWAY REHABILITATION PROJECT - PHASE I HONOULIULI, EWA, OAHU, HAWAII ROADWAY CONSTRUCTION PLAN - 3			
			FILE	POCKET	FOLDER	NUMBER
SHEET 11 OF 55 SHEETS			DWG NO. C-3			



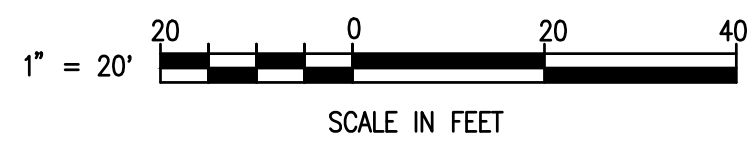
MATCHLINE STA. 18+00

MATCHLINE STA. 24+00

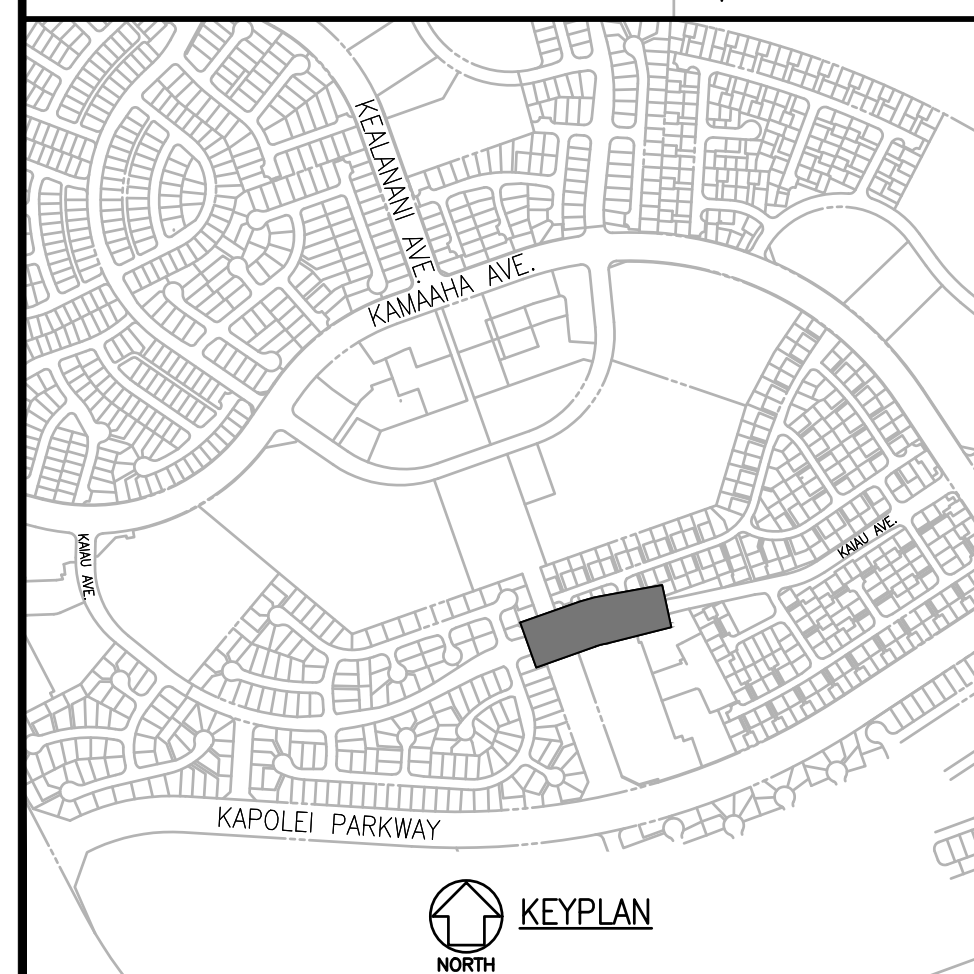
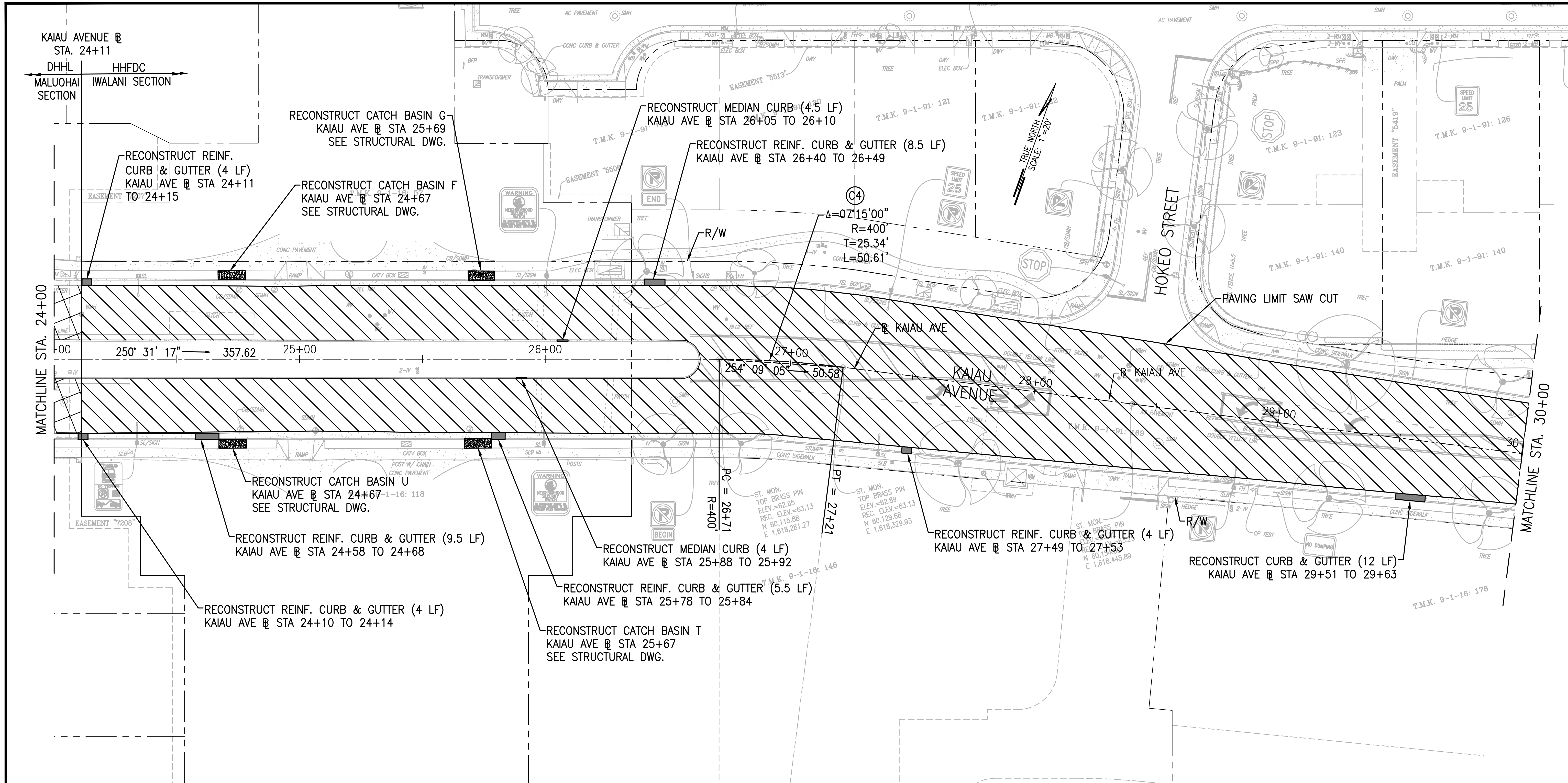


- LEGEND:**
- REPAVING AREA
KAIU AVENUE - MALUOHA SECTION
COLD PLANE 3" AND RESURFACE WITH 3"
STATE MIX NO. IV
 - CONCRETE CURB/CURB & GUTTER
RECONSTRUCTION
 - CATCH BASIN RECONSTRUCTION

- NOTES:**
1. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.
 2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO EXISTING DRAIN STRUCTURE.
 3. LIMITS AND LOCATION OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.



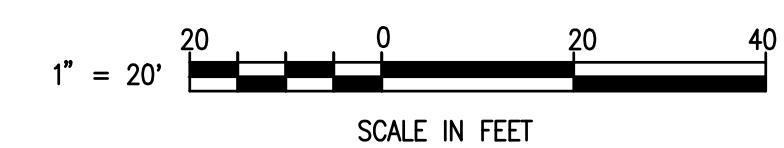
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CHECKED: JS								
DATE: SEPTEMBER 2022								
		<p>WSP USA Inc. 1001 Bishop Street, Suite 2400 Honolulu, HI 96813 TEL: +1.808.531.7094 FAX: +1.808.528.2368</p>						
		<p>VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII</p>						
		<p>KAIU AVENUE ROADWAY REHABILITATION PROJECT - PHASE I HONOLULU, EWA, OAHU, HAWAII ROADWAY CONSTRUCTION PLAN - 4</p>						
		APPROVED: _____						DWG NO. C-4



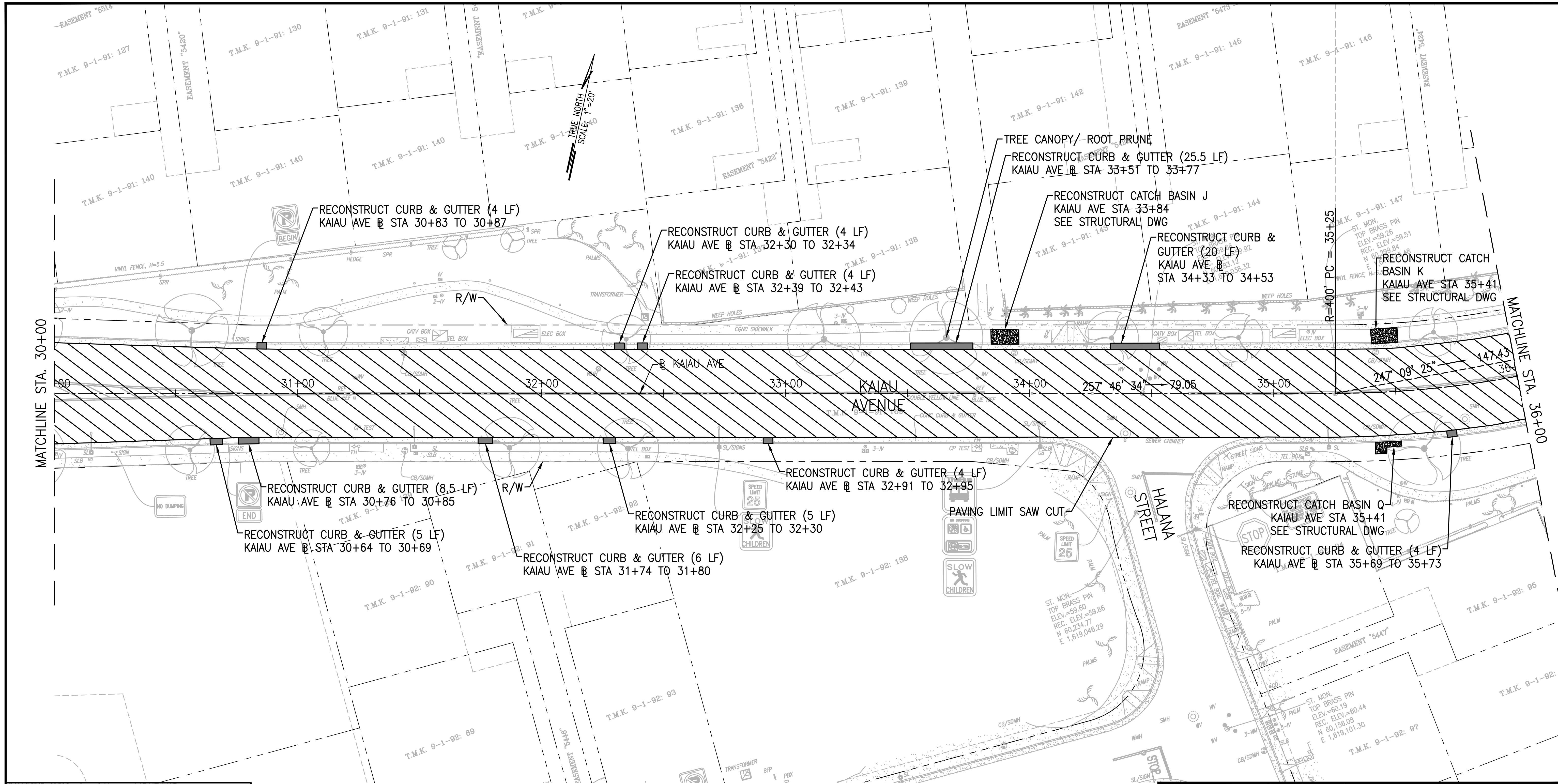
LEGEND:

	REPAVING AREA KAIU AVENUE - IWALANI SECTION COLD PLANE 3" AND RESURFACE WITH 3" STATE MIX NO. IV
	REPAVING AREA KAIU AVENUE - MALUOHAI SECTION COLD PLANE 3" AND RESURFACE WITH 3" STATE MIX NO. IV
	CONCRETE CURB/CURB & GUTTER RECONSTRUCTION
	CATCH BASIN RECONSTRUCTION

- NOTES:**
- PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.
 - CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO EXISTING DRAIN STRUCTURE.
 - LIMITS AND LOCATION OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.



DESIGN: MN	11/10/22	REVISED TOPOGRAPHIC MAP	APPROVED
DRAWN: MN	REVISION	DATE	BRIEF
CHECKED: JS			
DATE: SEPTEMBER 2022	 WSP USA Inc. 1001 Bishop Street, Suite 2400 Honolulu, HI 96813 TEL: +1.808.531.7094 FAX: +1.808.528.2368		
VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII			
KAIU AVENUE ROADWAY REHABILITATION PROJECT - PHASE I HONOLULU, EWA, OAHU, HAWAII ROADWAY CONSTRUCTION PLAN - 5			
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. SIGNATURE: EXPIRATION DATE OF THE LICENSE: 4/30/2024			DWG NO. C-5



MATCHLINE STA. 30+00

MATCHLINE STA. 36+00

TRUE NORTH
SCALE: 1"=20'

RECONSTRUCT CURB & GUTTER (4 LF)
KAIU AVE @ STA 30+83 TO 30+87

RECONSTRUCT CURB & GUTTER (4 LF)
KAIU AVE @ STA 32+30 TO 32+34

RECONSTRUCT CURB & GUTTER (4 LF)
KAIU AVE @ STA 32+39 TO 32+43

TREE CANOPY/ ROOT PRUNE
RECONSTRUCT CURB & GUTTER (25.5 LF)
KAIU AVE @ STA 33+51 TO 33+77

RECONSTRUCT CATCH BASIN J
KAIU AVE STA 33+84
SEE STRUCTURAL DWG

RECONSTRUCT CURB & GUTTER (20 LF)
KAIU AVE @ STA 34+33 TO 34+53

RECONSTRUCT CATCH BASIN K
KAIU AVE STA 35+41
SEE STRUCTURAL DWG

RECONSTRUCT CURB & GUTTER (8.5 LF)
KAIU AVE @ STA 30+76 TO 30+85

RECONSTRUCT CURB & GUTTER (5 LF)
KAIU AVE @ STA 30+64 TO 30+69

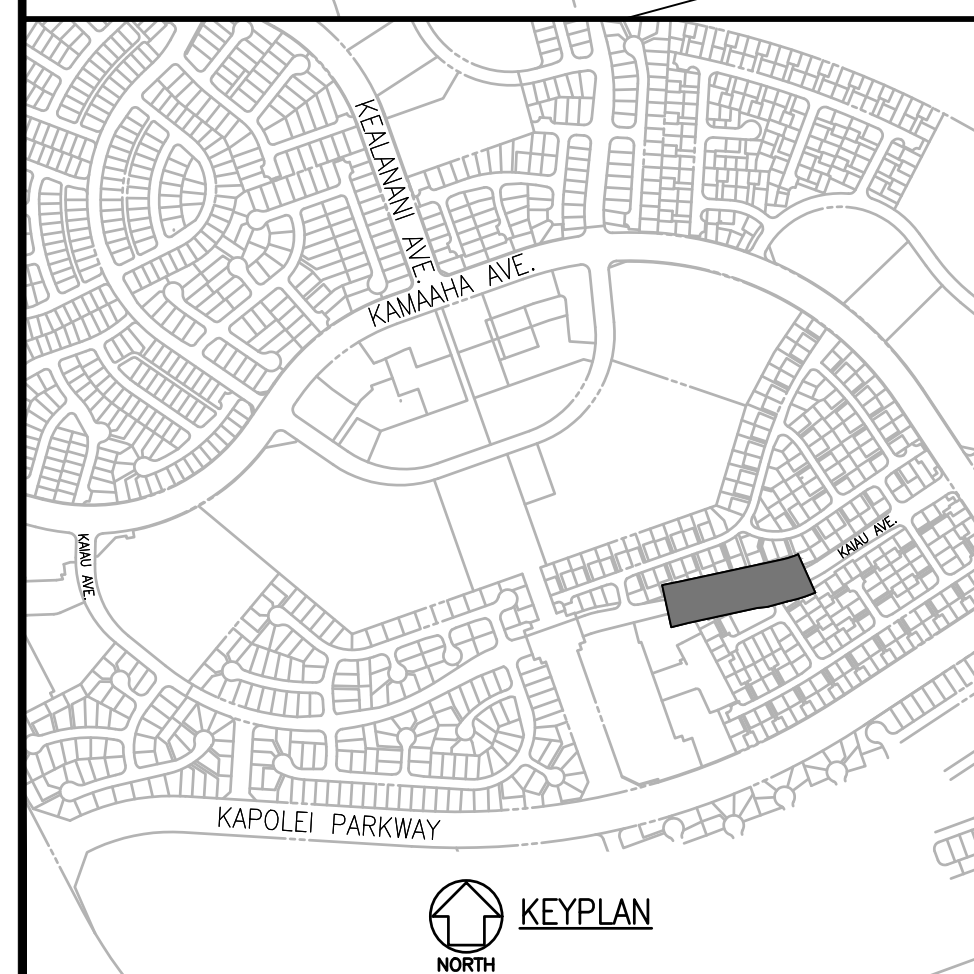
RECONSTRUCT CURB & GUTTER (6 LF)
KAIU AVE @ STA 31+74 TO 31+80

RECONSTRUCT CURB & GUTTER (5 LF)
KAIU AVE @ STA 32+25 TO 32+30

RECONSTRUCT CURB & GUTTER (4 LF)
KAIU AVE @ STA 32+91 TO 32+95

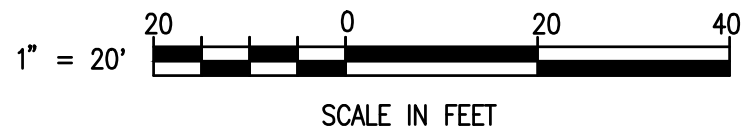
RECONSTRUCT CATCH BASIN Q
KAIU AVE STA 35+41
SEE STRUCTURAL DWG

RECONSTRUCT CURB & GUTTER (4 LF)
KAIU AVE @ STA 35+69 TO 35+73

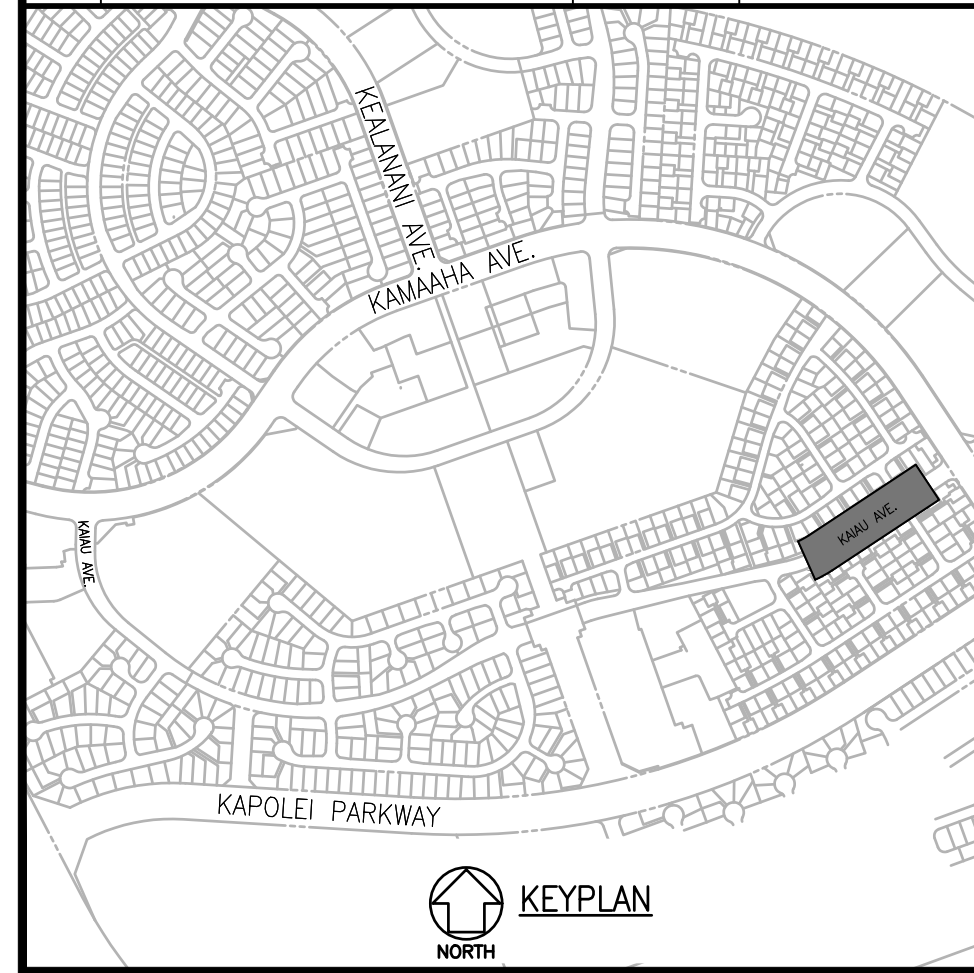
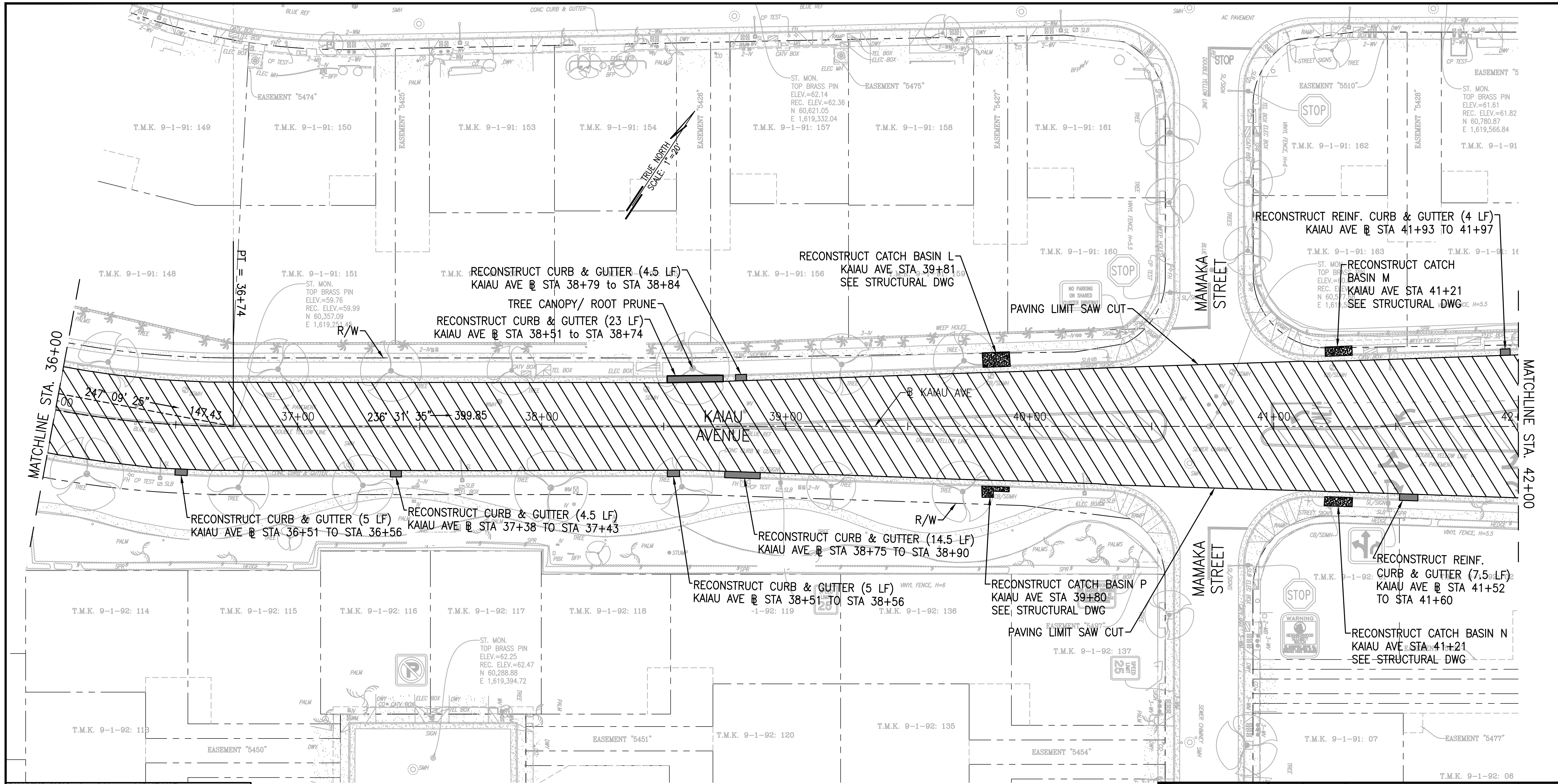





- LEGEND:**
- REPAVING AREA
KAIU AVENUE - IWALANI SECTION
COLD PLANE 3" AND RESURFACE WITH 3"
STATE MIX NO. IV
 - CONCRETE CURB/CURB & GUTTER
RECONSTRUCTION
 - CATCH BASIN RECONSTRUCTION

- NOTES:**
1. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.
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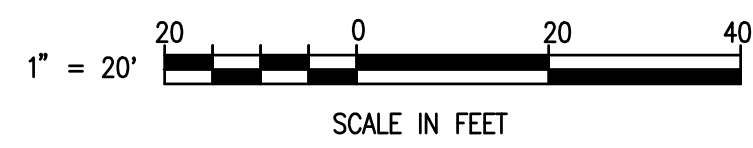



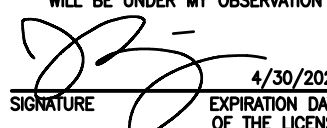
DESIGN: MN	11/10/22	REVISED TOPOGRAPHIC MAP	APPROVED
DRAWN: MN	REVISION	DATE	BRIEF
CHECKED: JS			
DATE: SEPTEMBER 2022	<p>WSP USA Inc. 1001 Bishop Street, Suite 2400 Honolulu, HI 96813 TEL: +1.808.531.7094 FAX: +1.808.528.2368</p>		
		<p>VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII</p>	
		<p>KAIU AVENUE ROADWAY REHABILITATION PROJECT - PHASE I HONOLULU, EWA, OAHU, HAWAII ROADWAY CONSTRUCTION PLAN - 6</p>	
<p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION</p>			DWG NO.
<p>4/30/2024 EXPIRATION DATE OF LICENSE</p>			C-6

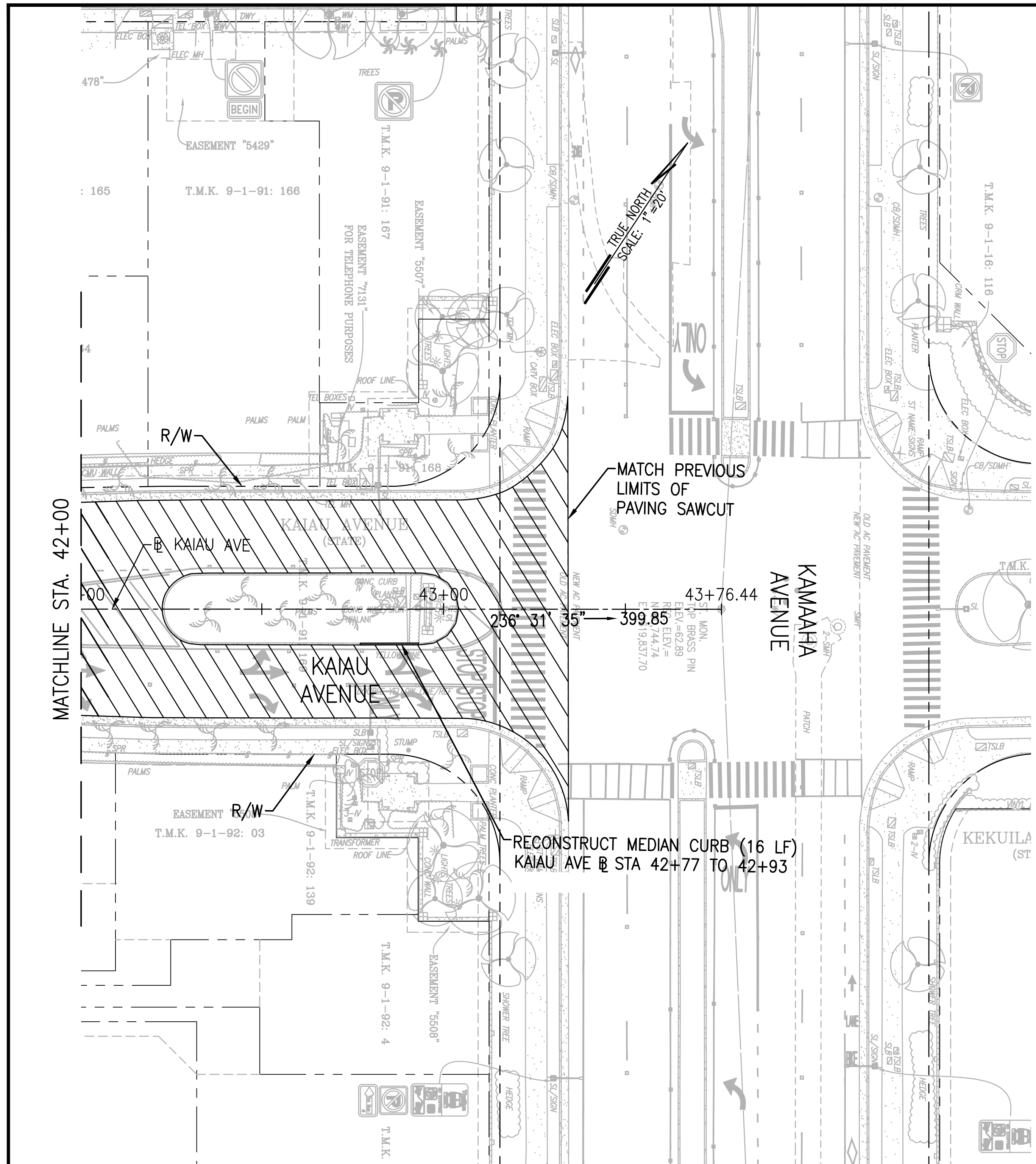


- LEGEND:**
-  REPAVING AREA
KAIU AVENUE - IWALANI SECTION
COLD PLANE 3" AND RESURFACE WITH 3"
STATE MIX NO. IV
 -  CONCRETE CURB/CURB & GUTTER
RECONSTRUCTION
 -  CATCH BASIN RECONSTRUCTION

- NOTES:**
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DESIGN: MN	11/10/22	REVISED TOPOGRAPHIC MAP	APPROVED
DRAWN: MN	REVISION	DATE	BRIEF
CHECKED: JS			
DATE: SEPTEMBER 2022	 WSP USA Inc. 1001 Bishop Street, Suite 2400 Honolulu, HI 96813 TEL: +1.808.531.7094 FAX: +1.808.528.2368		
VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII			
KAIU AVENUE ROADWAY REHABILITATION PROJECT - PHASE I HONOLULU, EWA, OAHU, HAWAII ROADWAY CONSTRUCTION PLAN - 7			
APPROVED:			DWG NO.
 SIGNATURE 4/30/2024 EXPIRATION DATE OF THE LICENSE			C-7



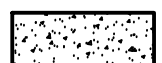


MATCHLINE STA. 42+00

RECONSTRUCT MEDIAN CURB (16 LF)
KAIU AVE @ STA 42+77 TO 42+93

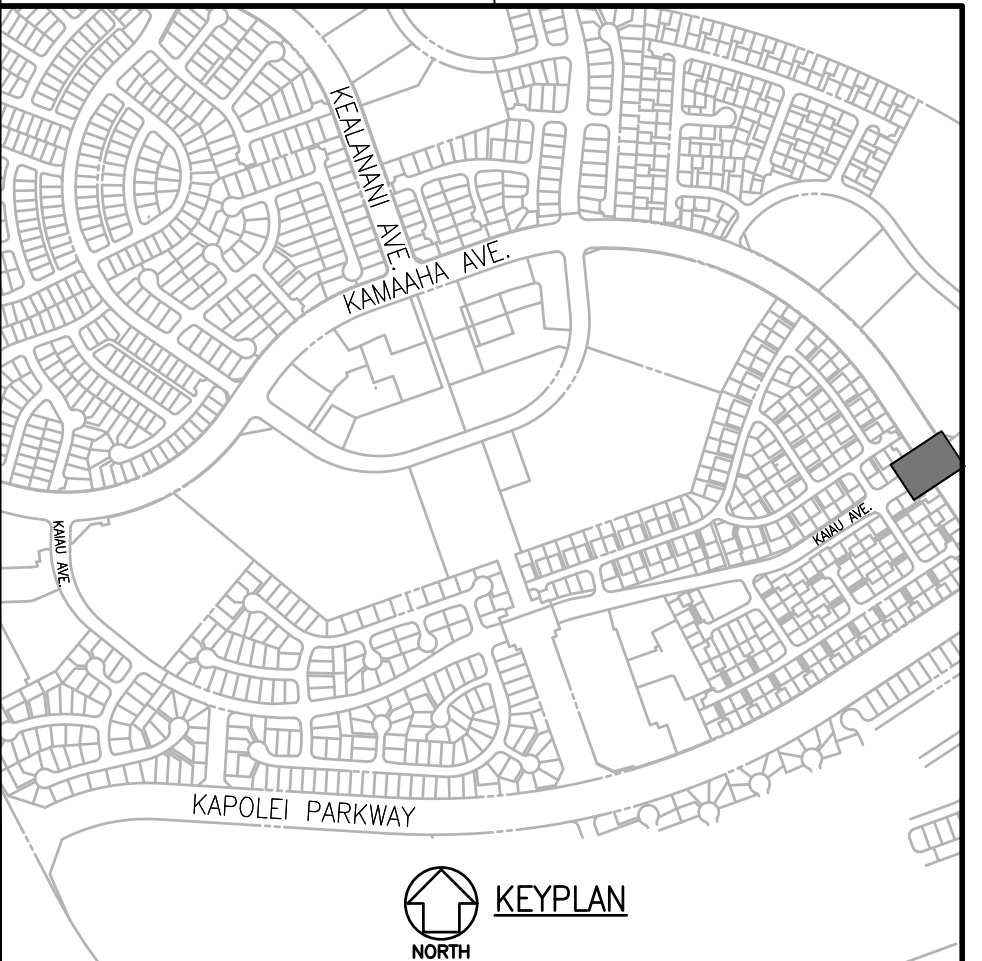
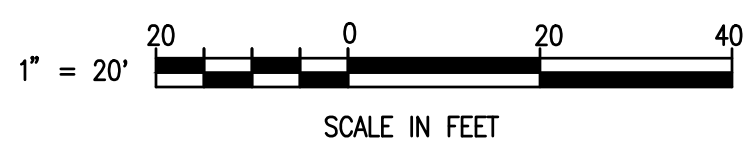
MATCH PREVIOUS
LIMITS OF
PAVING SAWCUT


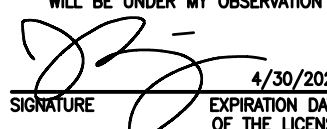
LEGEND:

-  REPAVING AREA
KAIU AVENUE - IWALANI SECTION
COLD PLANE 3" AND RESURFACE WITH 3"
STATE MIX NO. IV
-  CONCRETE CURB/CURB & GUTTER
RECONSTRUCTION
-  CATCH BASIN RECONSTRUCTION

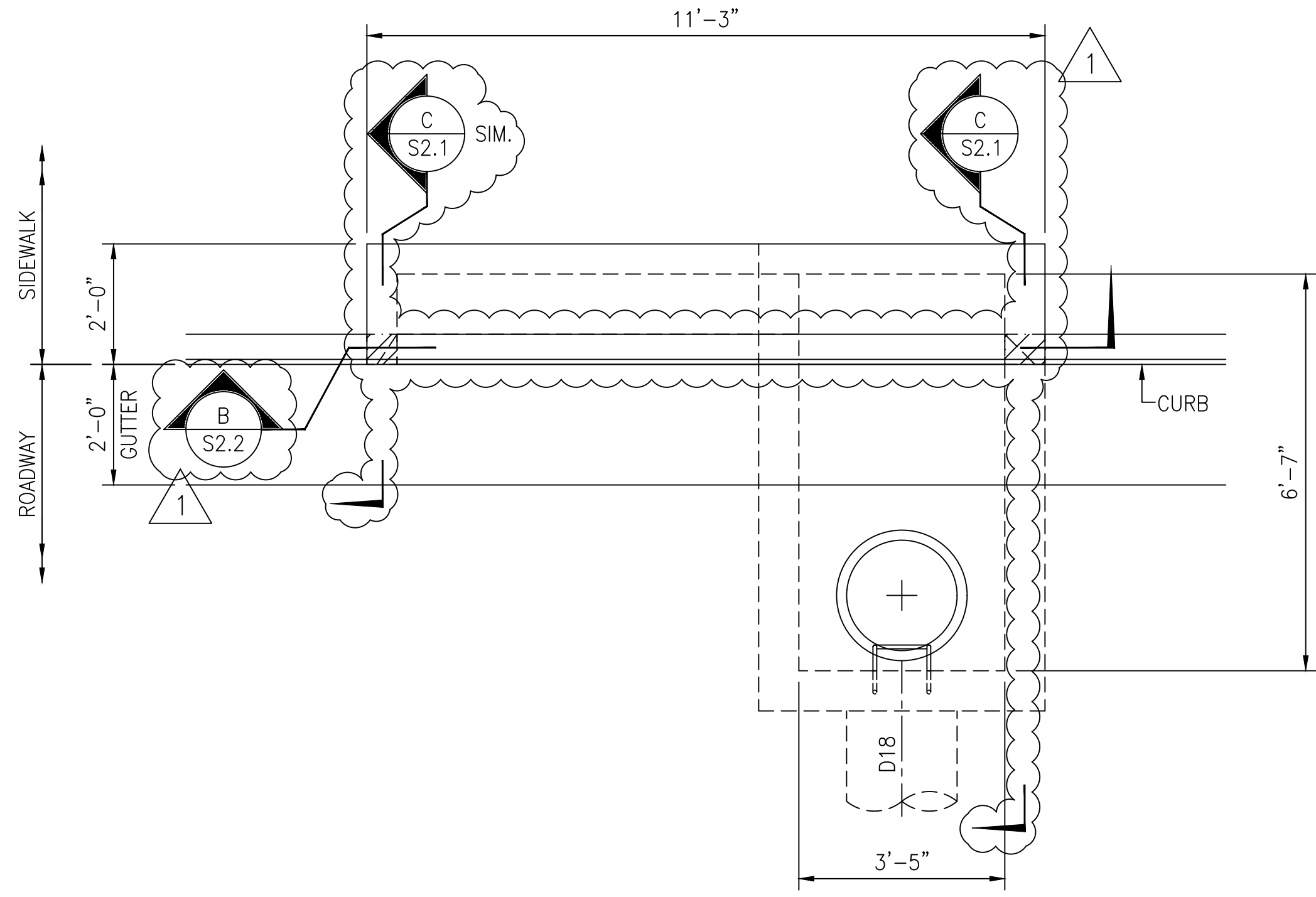
NOTES:

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DESIGN: MN	REVISION	DATE	BRIEF	APPROVED
DRAWN: MN	11/10/22	11/10/22	REVISED TOPOGRAPHIC MAP	
CHECKED: JS				
DATE: SEPTEMBER 2022				
WSP USA Inc. 1001 Bishop Street, Suite 2400 Honolulu, HI 96813 TEL: +1.808.531.7094 FAX: +1.808.528.2368				
VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII				
KAIU AVENUE ROADWAY REHABILITATION PROJECT - PHASE I HONOLULU, EWA, OAHU, HAWAII ROADWAY CONSTRUCTION PLAN - 8				
APPROVED:				DWG NO.
				C-8
<small>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION</small> <small>4/30/2024</small> <small>EXPIRATION DATE OF THE LICENSE</small>				

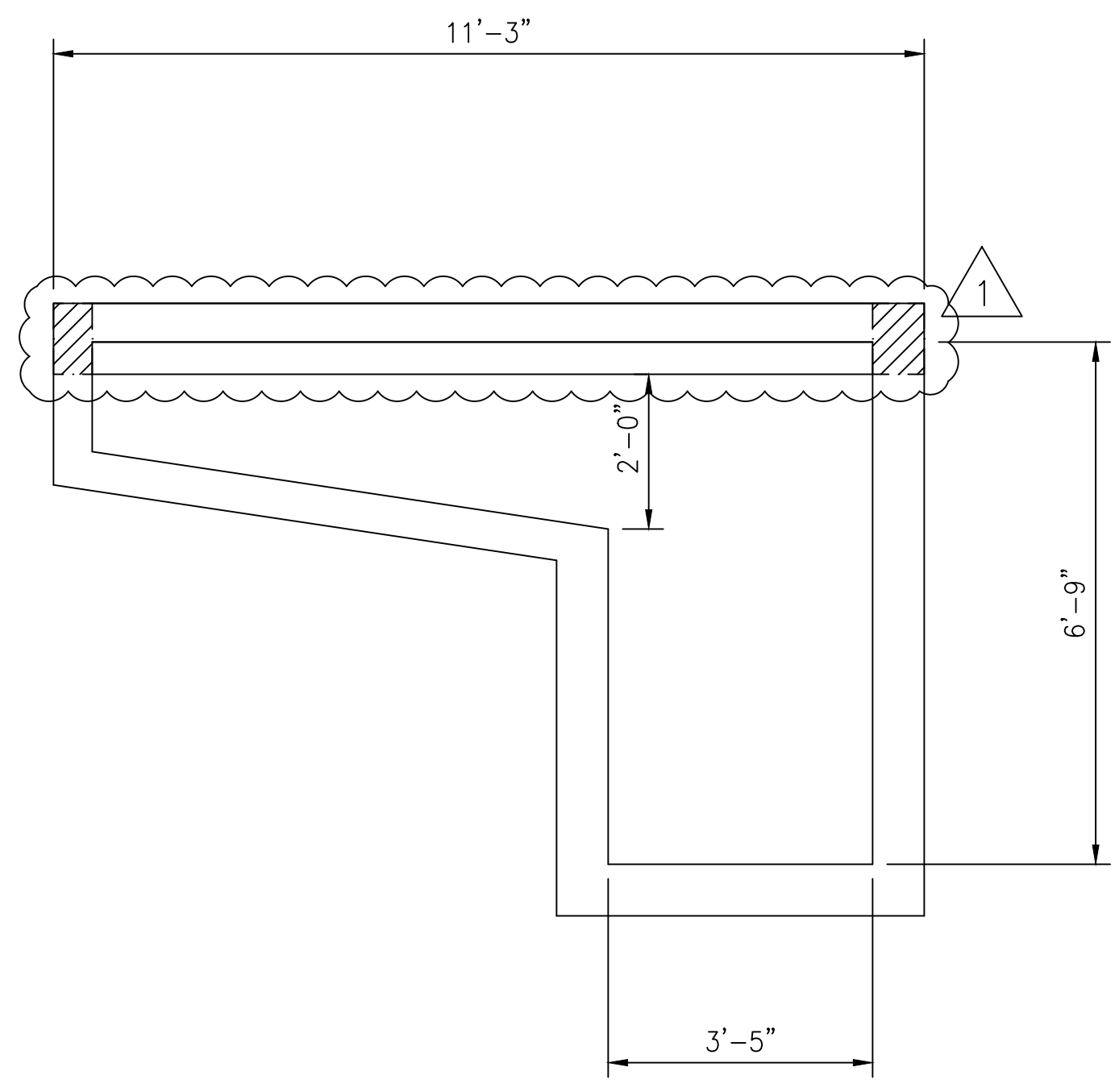
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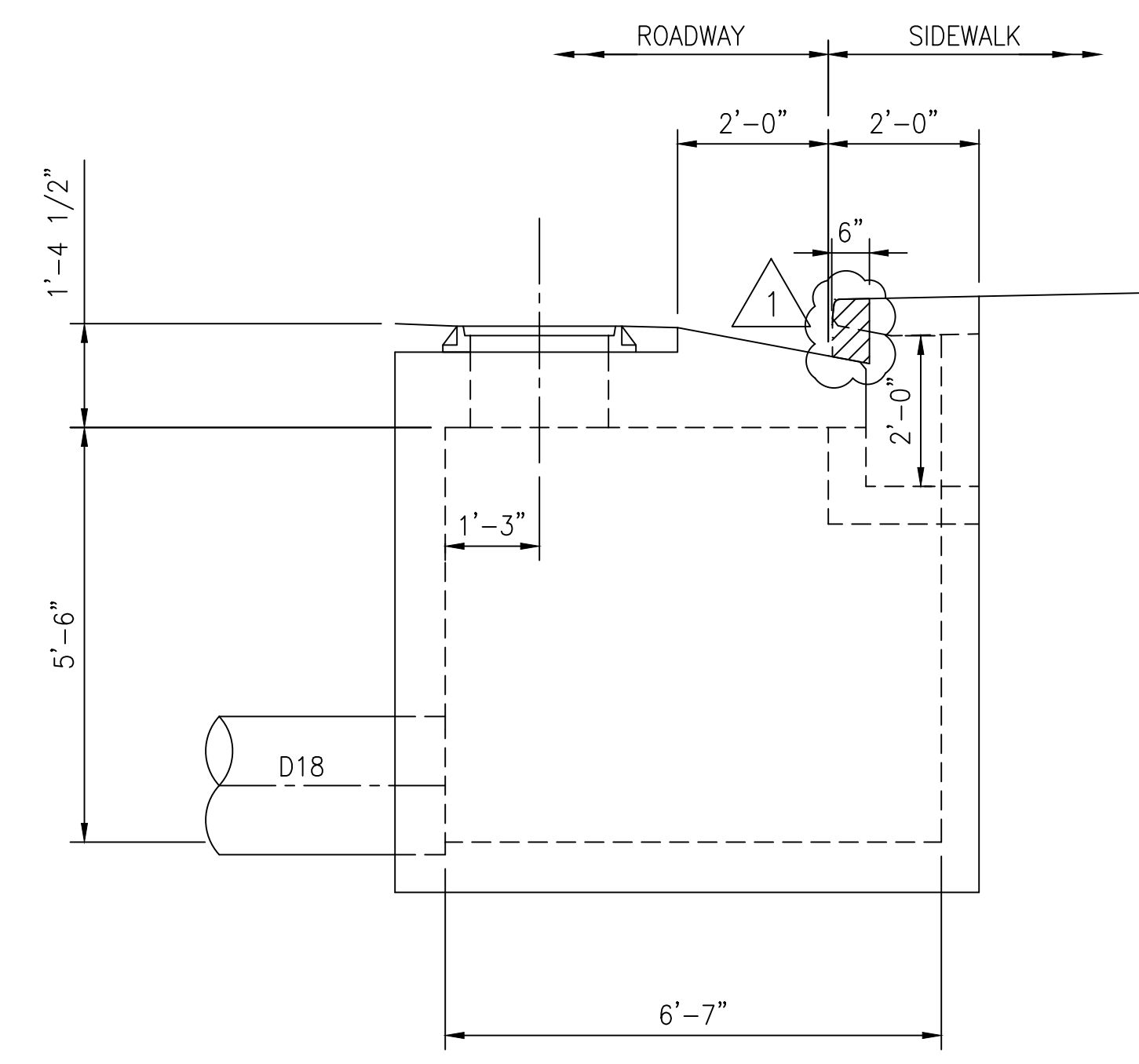
A DEMO PLAN
S2.1 SCALE: 1/2" = 1'-0"

LEGEND:
 EXTENT OF CURB DEMOLITION

- NOTES:**
1. SALVAGE ALL EXISTING REINFORCING PROTRUDING OUT OF COLD JOINTS AT ALL CATCH BASINS, INCLUDING REINFORCING NOT SHOWN, UNLESS NOTED OTHERWISE.
 2. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND NOT RELY ON THESE PLANS FOR EXISTING ROADS, ROADWAY GUTTERS, CURBS, SIDEWALKS, ETC. CONDITIONS MAY DIFFER FROM THOSE SHOWN.



B DEMO SECTION
S2.2 SCALE: 1/2" = 1'-0"

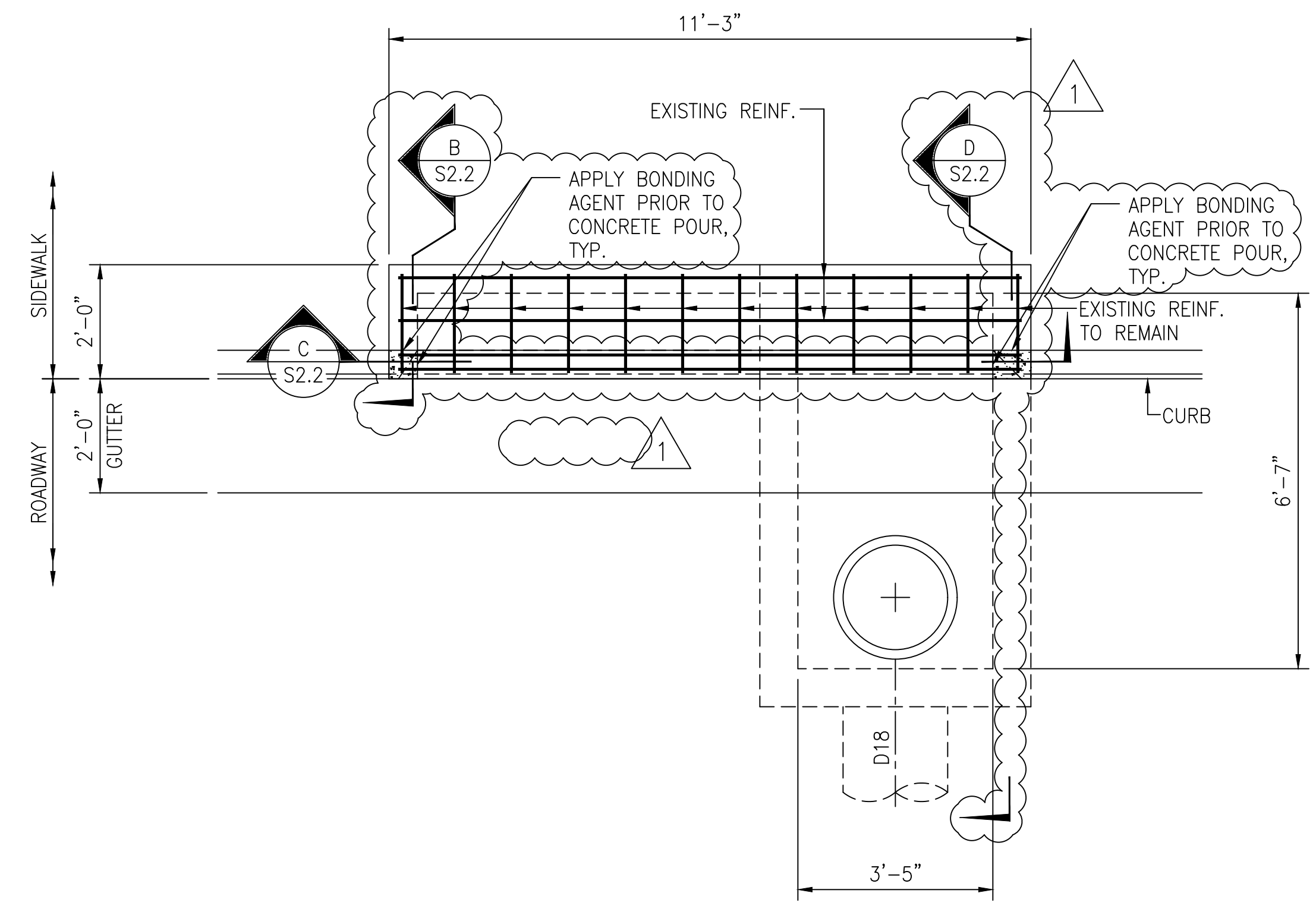


C DEMO SECTION
S2.1 SCALE: 1/2" = 1'-0"

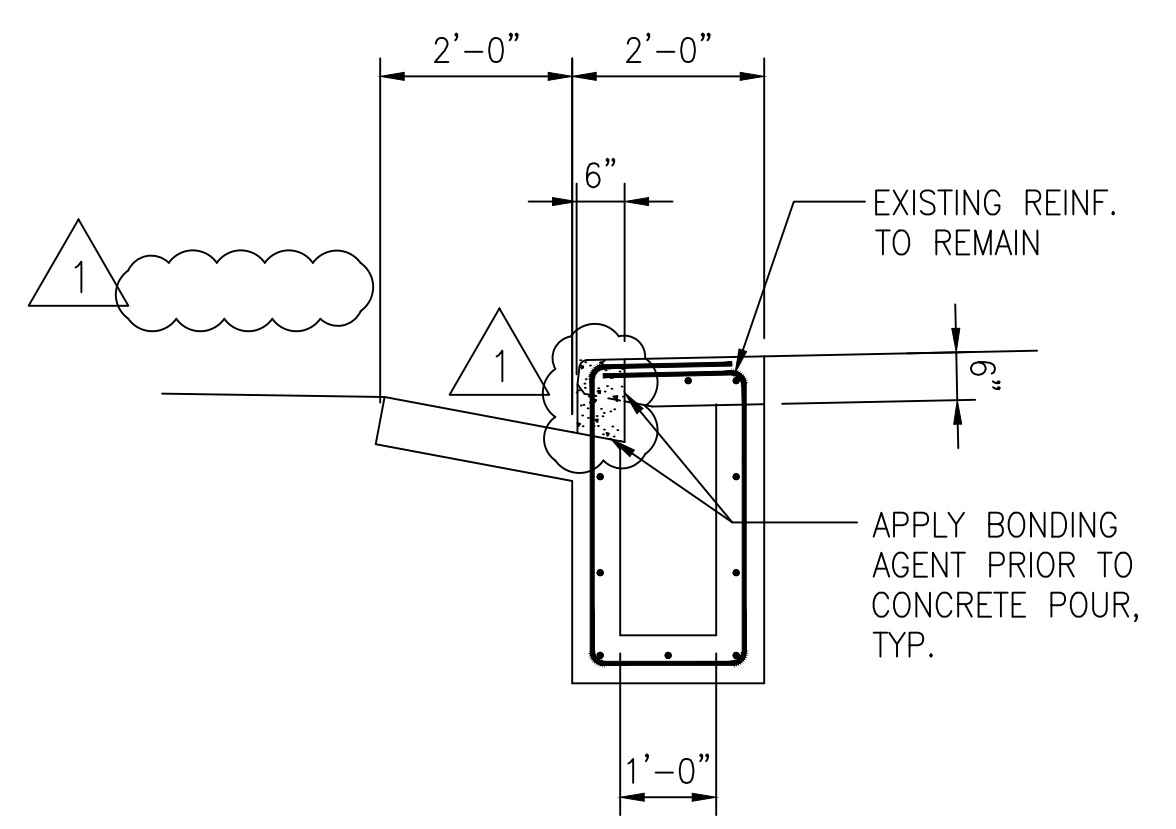
CATCH BASIN - CB "B"

DESIGN: RM	REVISION:	DATE: 11/10/22	BRIEF: REVISED REPAIR LIMITS	BY:	APPROVED:				
DRAWN: KSF									
CHECKED: RM									
DATE: SEPTEMBER 2022									
 <small>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.</small> <small>EXPIRATION DATE OF THE LICENSE: 4/30/2024</small>	 VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII KAIUA AVENUE ROADWAY REHABILITATION PROJECT - PHASE 1 HONOLULU, EWA, OAHU, HAWAII CATCH BASIN CB "B" DEMOLITION PLAN AND SECTIONS								
	APPROVED:				DWC NO. S2.1				
	SHEET 36 OF 55 SHEETS								
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FILE	POCKET	FOLDER	NUMBER						

DRAWING NAME: Z:\00 ONGOING\22-025-VILLAGES OF KAPOLEI CBS-WSP\01 CAD\11-09-22 ADD\KCB-S0201 B REPLACE ADD1.DWG PLOT TIME: 11-09-22, 9:58 AM



A PLAN
S2.2 SCALE: 1/2" = 1'-0"

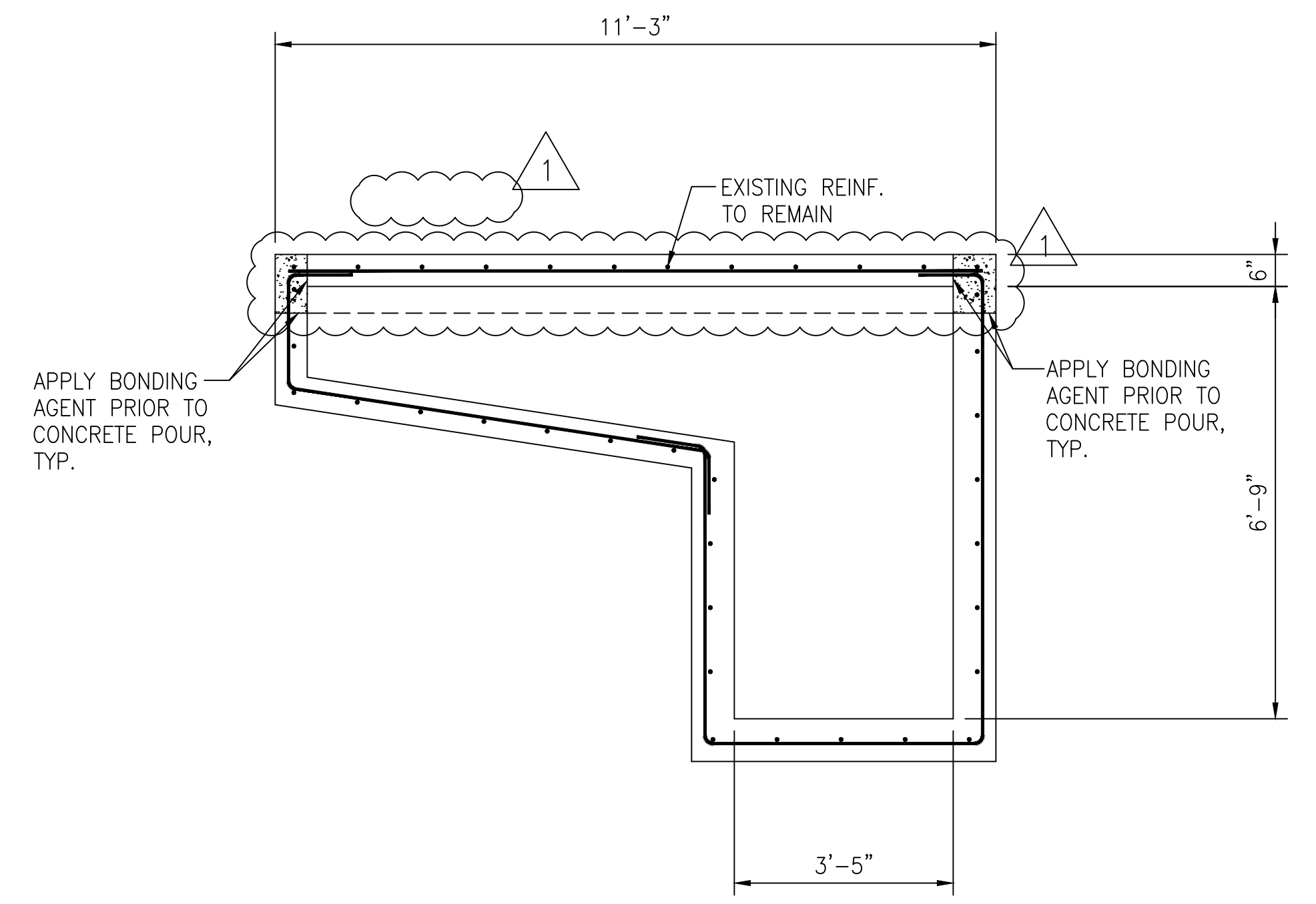


B SECTION
S2.2 SCALE: 1/2" = 1'-0"

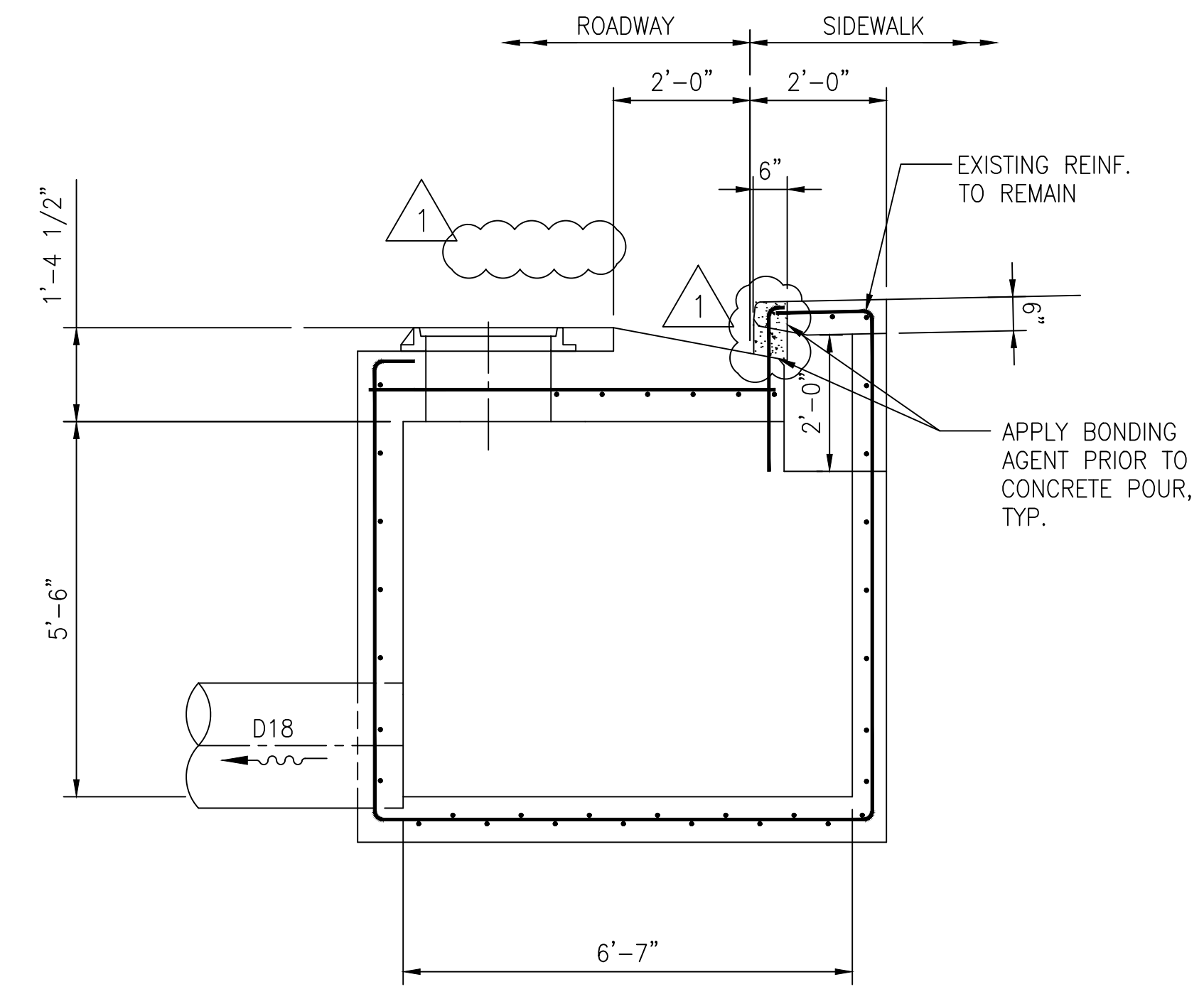
LEGEND:
 EXTENT OF CONCRETE REPAIR

NOTES:

1. SALVAGE ALL EXISTING REINFORCING PROTRUDING OUT OF COLD JOINTS AT ALL CATCH BASINS, INCLUDING REINFORCING NOT SHOWN, UNLESS NOTED OTHERWISE.
2. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND NOT RELY ON THESE PLANS FOR EXISTING ROADS, ROADWAY GUTTERS, CURBS, SIDEWALKS, ETC. CONDITIONS MAY DIFFER FROM THOSE SHOWN.

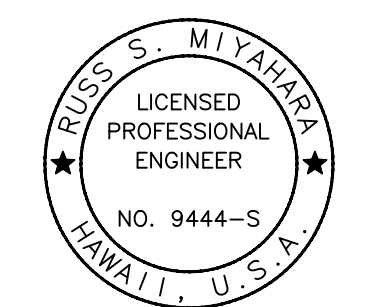



C SECTION
S2.2 SCALE: 1/2" = 1'-0"



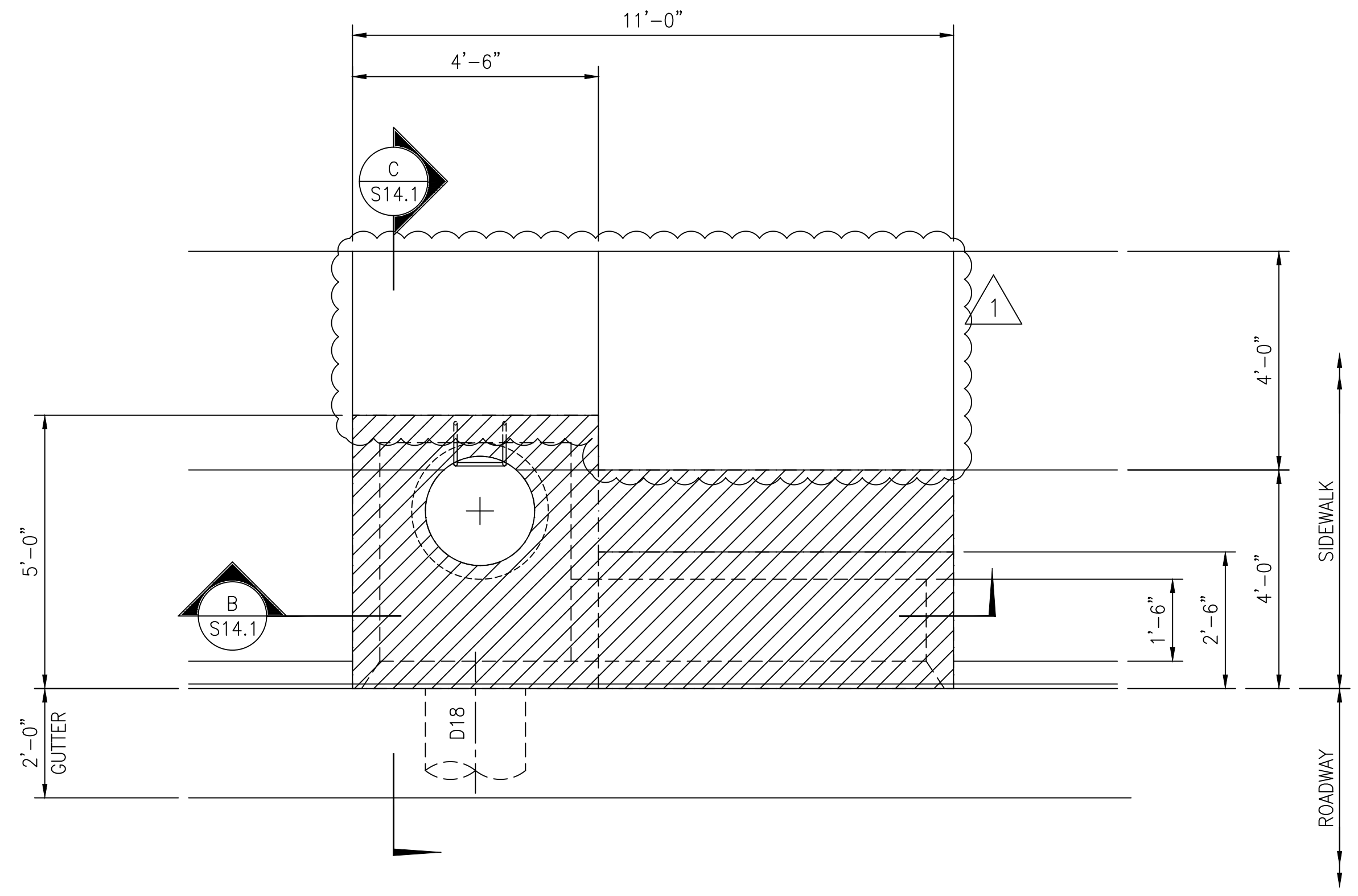
D SECTION
S2.2 SCALE: 1/2" = 1'-0"

CATCH BASIN - CB "B"

DESIGN: RM	REVISION: 11/10/22	DATE: 11/10/22	REVISOR: REVISED REPAIR LIMITS	BY:	APPROVED:
DRAWN: KSF					
CHECKED: RM					
DATE: SEPTEMBER 2022					
 <small>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.</small> SIGNATURE: <i>Russ S. Miyahara</i> EXPIRATION DATE: 4/30/2024	 815 PIKIOI STREET, SUITE 300 HONOLULU, HAWAII 96814 kafinc@kafinc.us				
	VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII				
	KAIUA AVENUE ROADWAY REHABILITATION PROJECT - PHASE 1 HONOLULU, EWA, OAHU, HAWAII				
	CATCH BASIN CB "B" PLAN AND SECTIONS				
APPROVED:				DWC NO. S2.2	

FILE	POCKET	FOLDER	NUMBER
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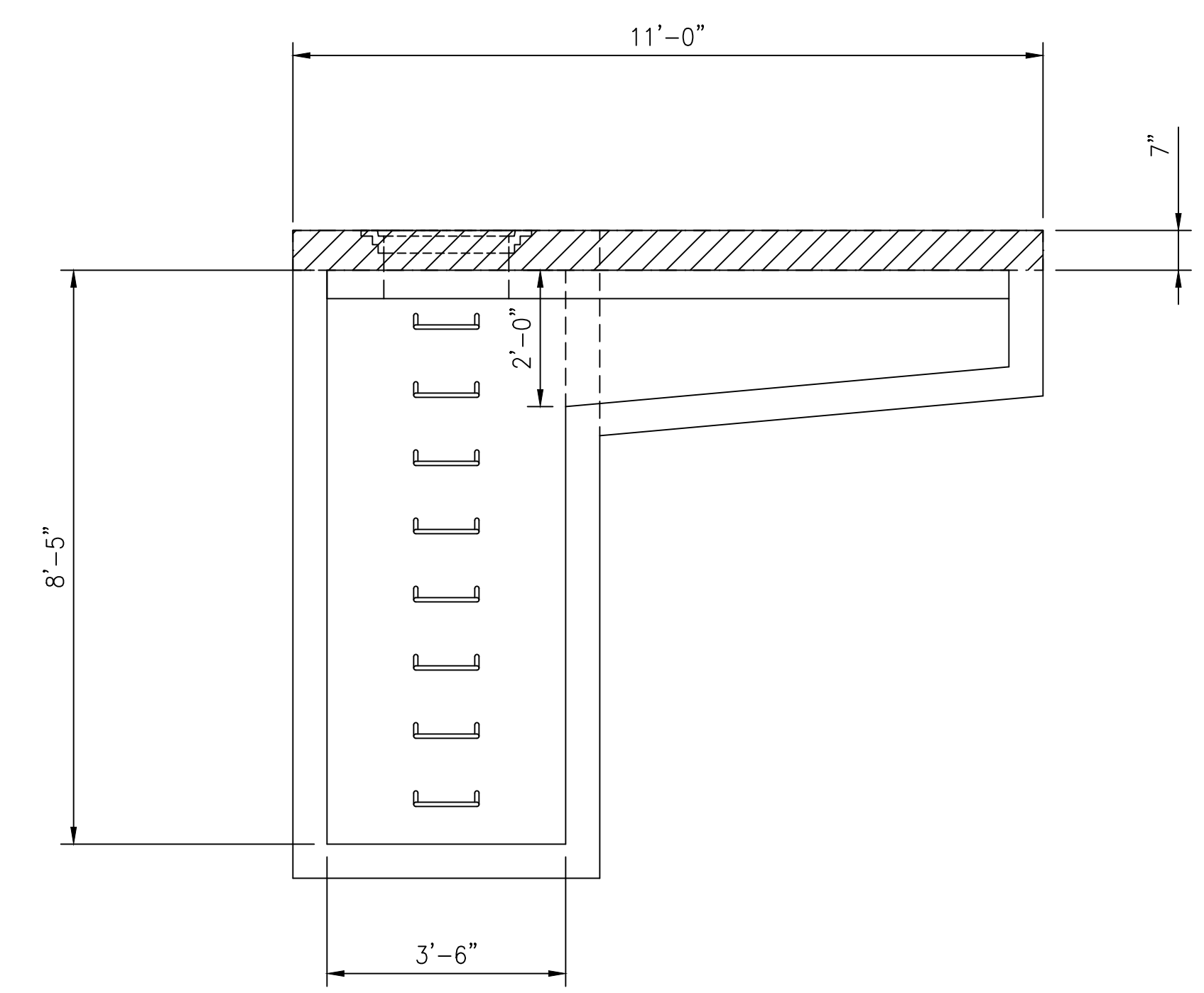
DRAWING NAME: Z:\00 ONGOING\22-025-VILLAGES OF KAPOLEI CBS-WSP\01 CAD\11-09-22 ADD\KCB-S1401.Y REPLACE_ADD1.DWG PLOT TIME: 11-09-22, 9:59 AM



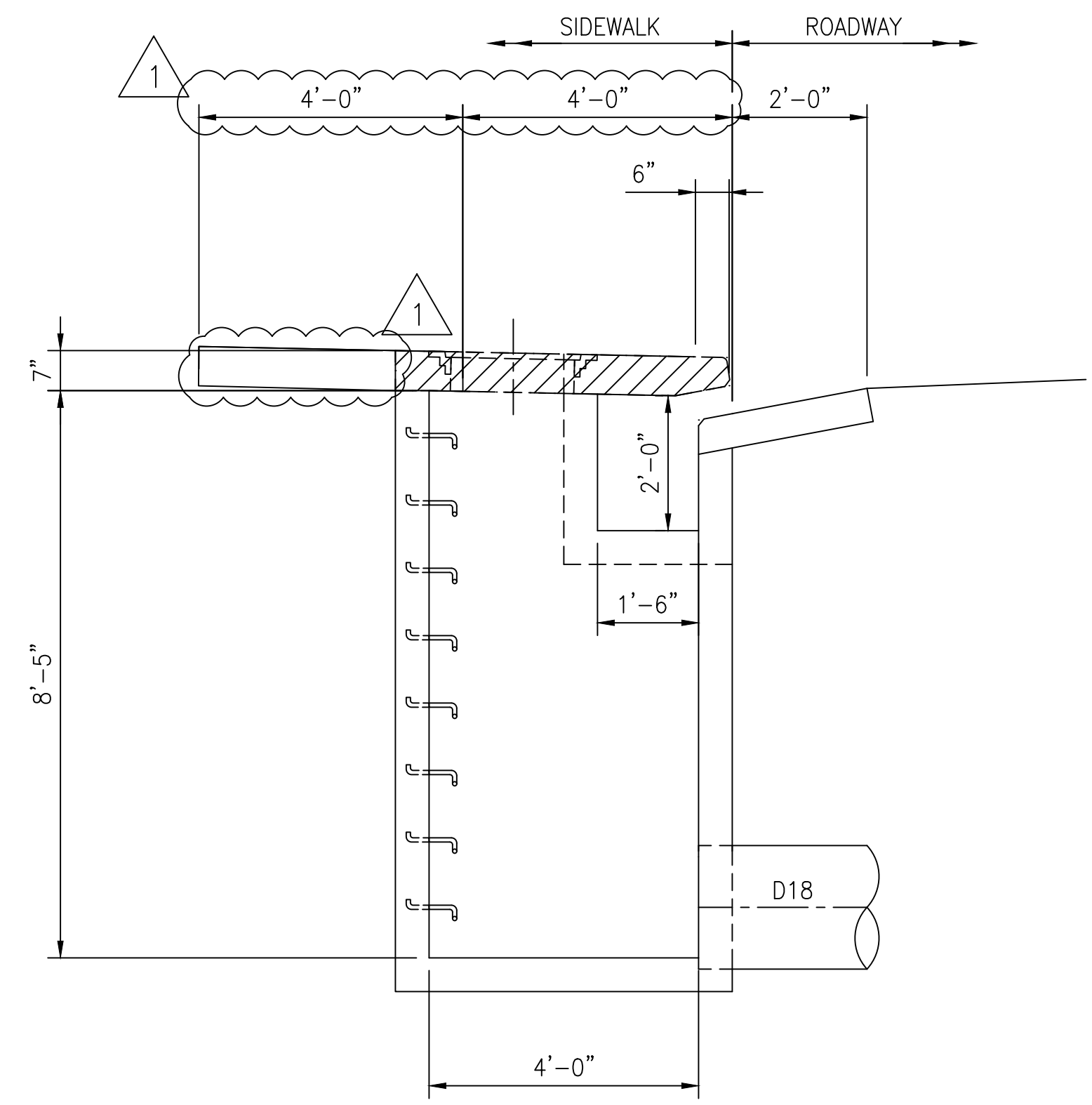
A PLAN
S14.1 SCALE: 1/2" = 1'-0"

LEGEND:
 EXTENT OF SLAB DEMOLITION

- NOTES:**
1. SALVAGE ALL EXISTING REINFORCING PROTRUDING OUT OF COLD JOINTS AT ALL CATCH BASINS, INCLUDING REINFORCING NOT SHOWN, UNLESS NOTED OTHERWISE.
 2. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND NOT RELY ON THESE PLANS FOR EXISTING ROADS, ROADWAY GUTTERS, CURBS, SIDEWALKS, ETC. CONDITIONS MAY DIFFER FROM THOSE SHOWN.



B SECTION
S14.1 SCALE: 1/2" = 1'-0"



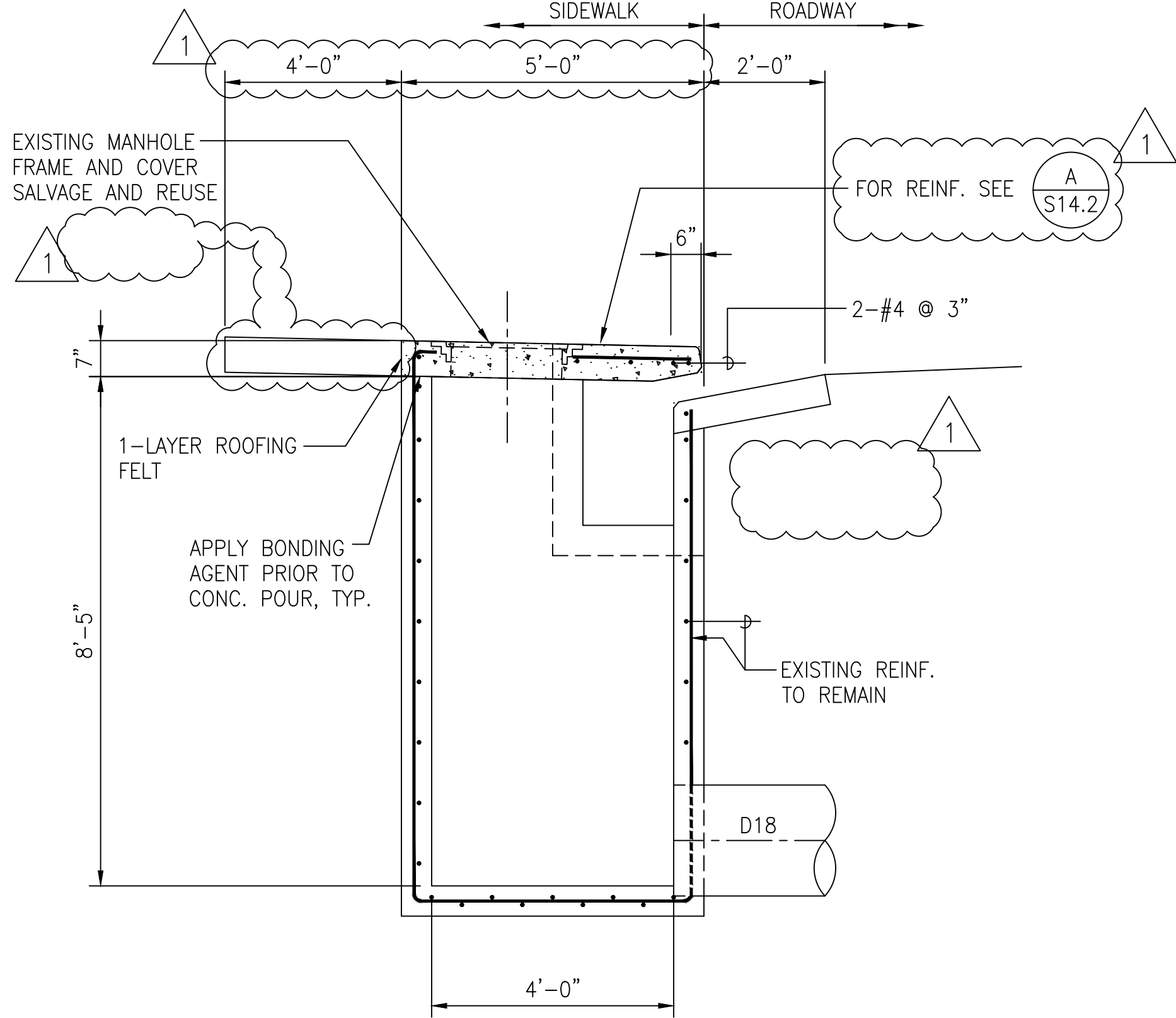
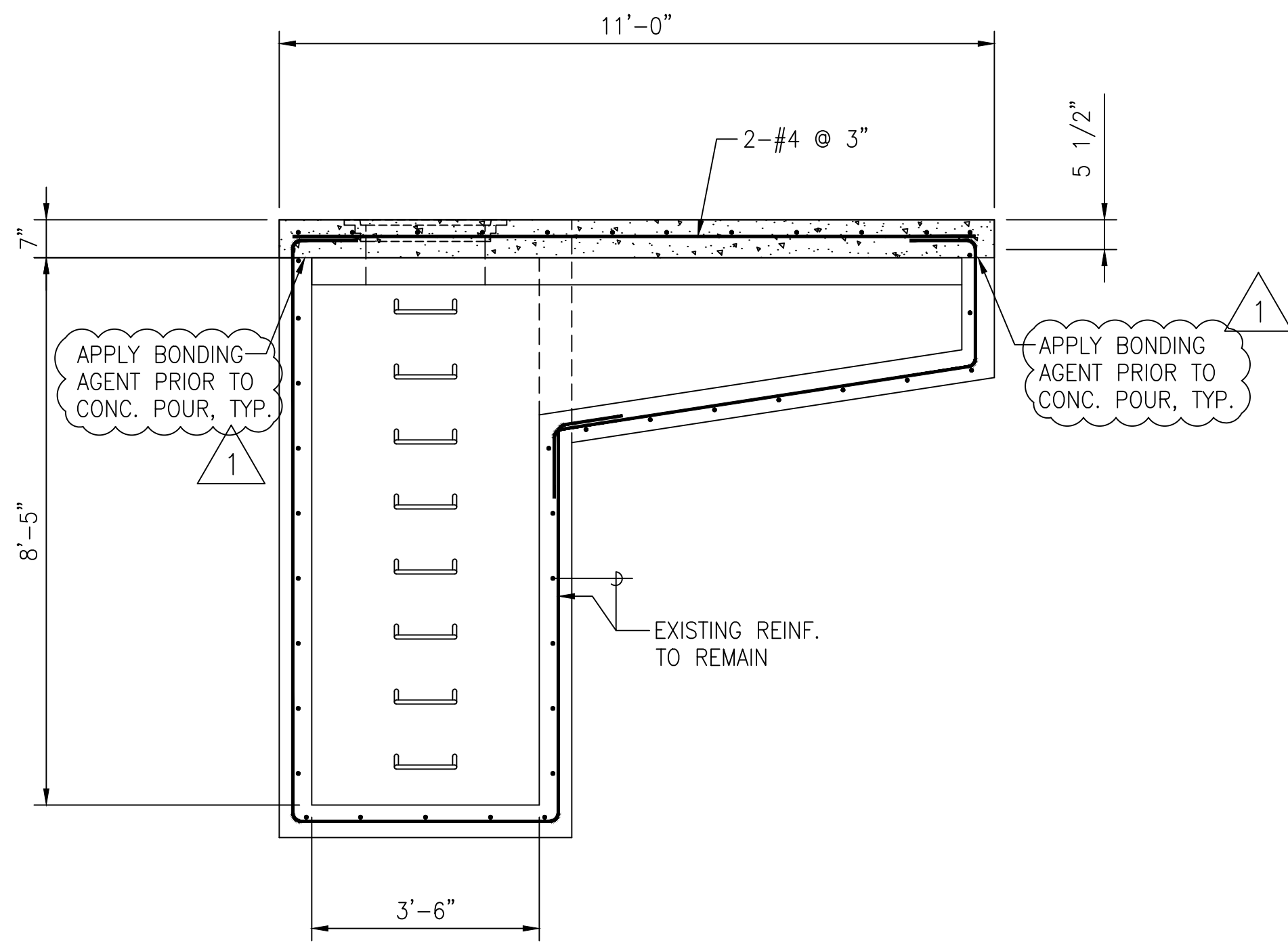
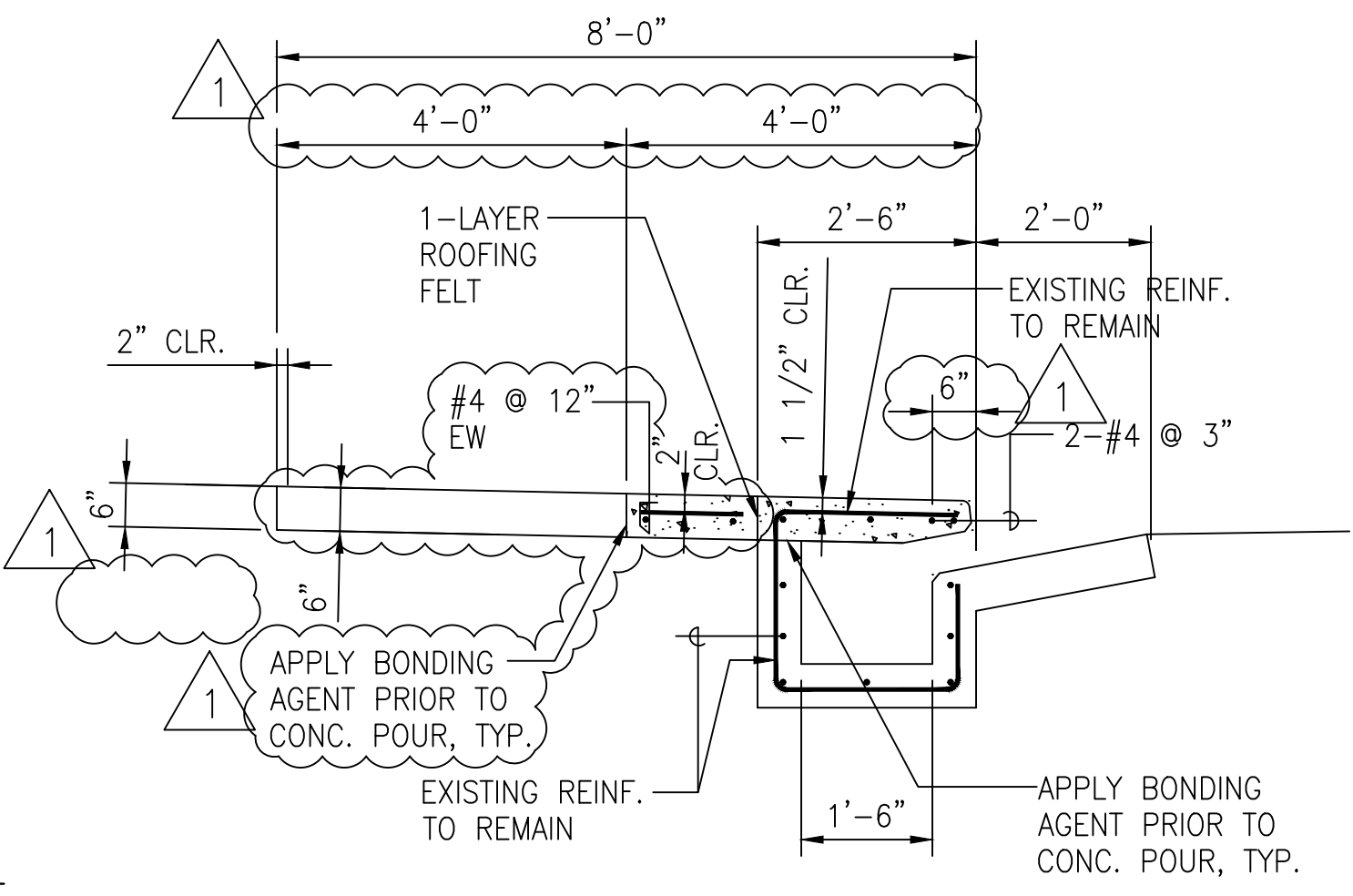
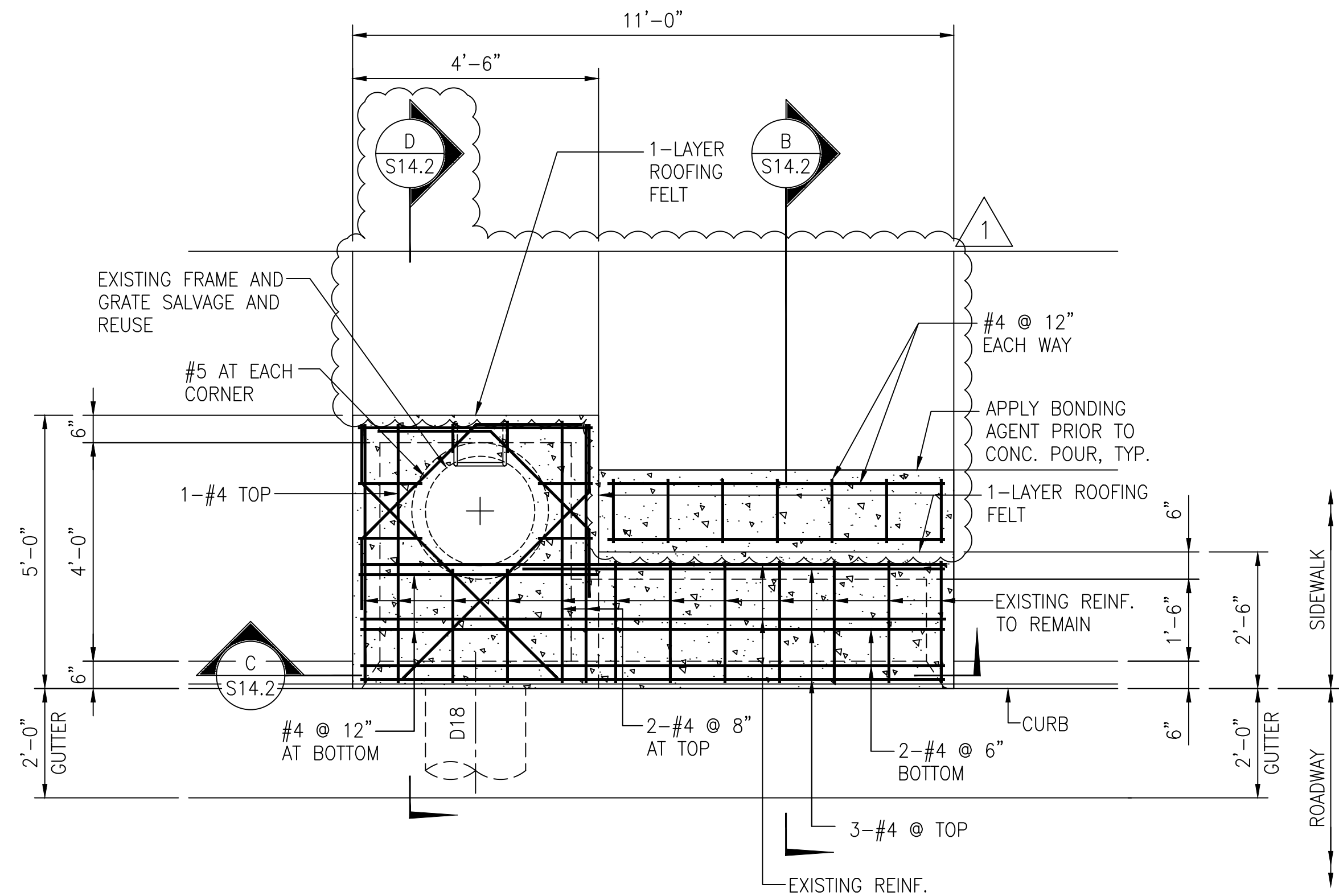
C SECTION
S14.1 SCALE: 1/2" = 1'-0"

CATCH BASIN - CB "Y"

DESIGN: RM	REVISION	DATE	REVISOR	DATE	REVISION	DATE	REVISOR	DATE	REVISION
DRAWN: KSF	1	11/10/22			REVISED REPAIR LIMITS				
CHECKED: RM					BRIEF				
DATE: SEPTEMBER 2022					BY				APPROVED
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. SIGNATURE: <i>Russ S. Miyahara</i> EXPIRATION DATE OF LICENSE: 4/30/2024	 815 PIKOI STREET, SUITE 300 HONOLULU, HAWAII 96814 ksfinc@ksfinc.us								
	VILLAGES OF KAPOLEI DEDICATION HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION STATE OF HAWAII								
	KAIU AVENUE ROADWAY REHABILITATION PROJECT - PHASE 1 HONOLULU, EWA, OAHU, HAWAII								
	CATCH BASIN CB "Y" DEMOLITION PLAN AND SECTIONS								
	APPROVED:							DWG NO.	
								S14.1	

FILE	POCKET	FOLDER	NUMBER
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DRAWING NAME: Z:\00 ONGOING\22-025-VILLAGES OF KAPOLEI CBS-WSP\01 CAD\11-09-22 ADD\KCB-S1401.Y REPLACE_ADD1.DWG PLOT TIME: 11-09-22, 9:59 AM




LEGEND:
[Pattern] EXTENT OF CONCRETE REPAIR

- NOTES:**
- SALVAGE ALL EXISTING REINFORCING PROTRUDING OUT OF COLD JOINTS AT ALL CATCH BASINS, INCLUDING REINFORCING NOT SHOWN, UNLESS NOTED OTHERWISE.
 - THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND NOT RELY ON THESE PLANS FOR EXISTING ROADS, ROADWAY GUTTERS, CURBS, SIDEWALKS, ETC. CONDITIONS MAY DIFFER FROM THOSE SHOWN.
 - THE CONTRACTOR SHALL POUR CONCRETE FOR THE CATCH BASIN TOP SLAB INDEPENDENTLY FROM THE SLAB ON GRADE.

CATCH BASIN - CB "Y"

DESIGN: RM	11/10/22	REVISED REPAIR LIMITS		
DRAWN: KSF	DATE	BRIEF	BY	APPROVED
CHECKED: RM				
DATE: SEPTEMBER 2022				

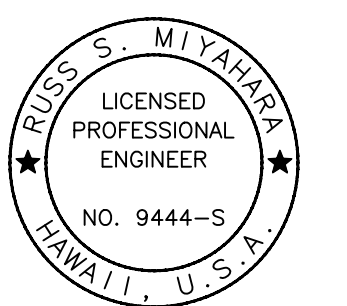


815 PIKOI STREET, SUITE 300
HONOLULU, HAWAII 96814
kafinc@kafinc.us

VILLAGES OF KAPOLEI DEDICATION
HAWAII HOUSING FINANCE & DEVELOPMENT CORPORATION
STATE OF HAWAII

KAIAU AVENUE ROADWAY REHABILITATION PROJECT - PHASE 1
HONOULIULI, EWA, OAHU, HAWAII

CATCH BASIN CB "Y"
PLAN AND SECTIONS



RUSS S. MIYAHARA
LICENSED PROFESSIONAL ENGINEER
NO. 9444-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

4/30/2024
SIGNATURE OF THE LICENSEE

APPROVED:

DWG NO.
S14.2