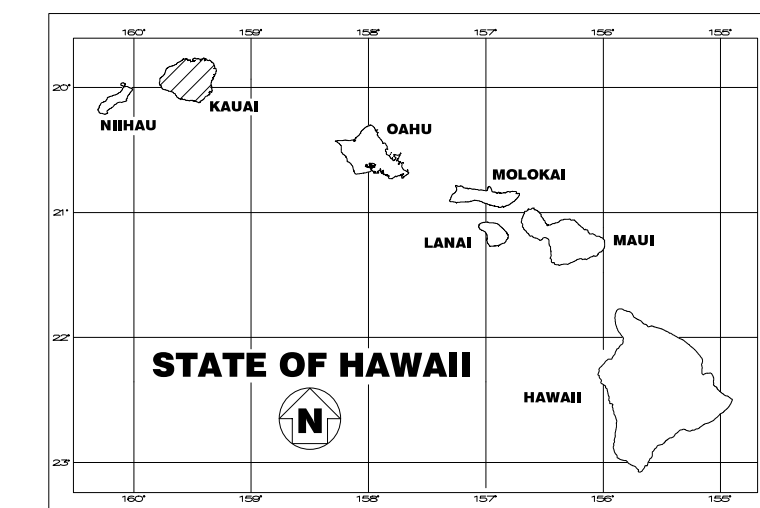


| INDEX TO DRAWINGS | |
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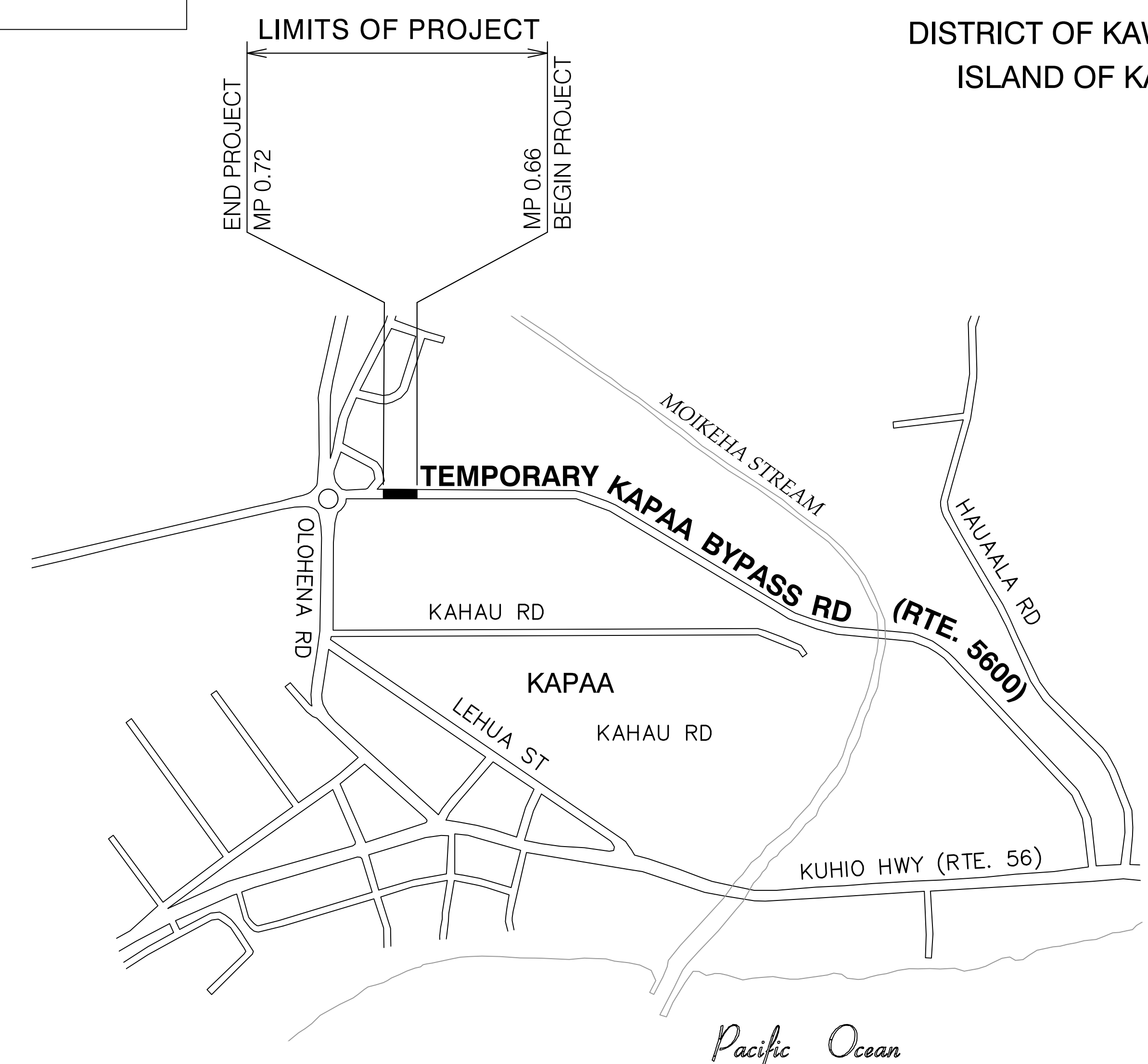
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII | HAW. | 5600-02-23M | 2024 | 1 | 21 |



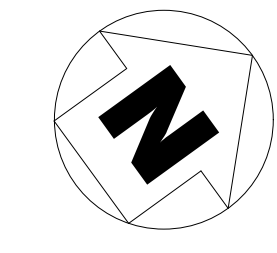
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HONOLULU, HAWAII

PLANS FOR
TEMPORARY KAPAA BYPASS ROAD REPAIR
VICINITY OF OLOHENA ROAD
PROJECT NO. 5600-02-23M

DISTRICT OF KAWAIIHAU
ISLAND OF KAUI

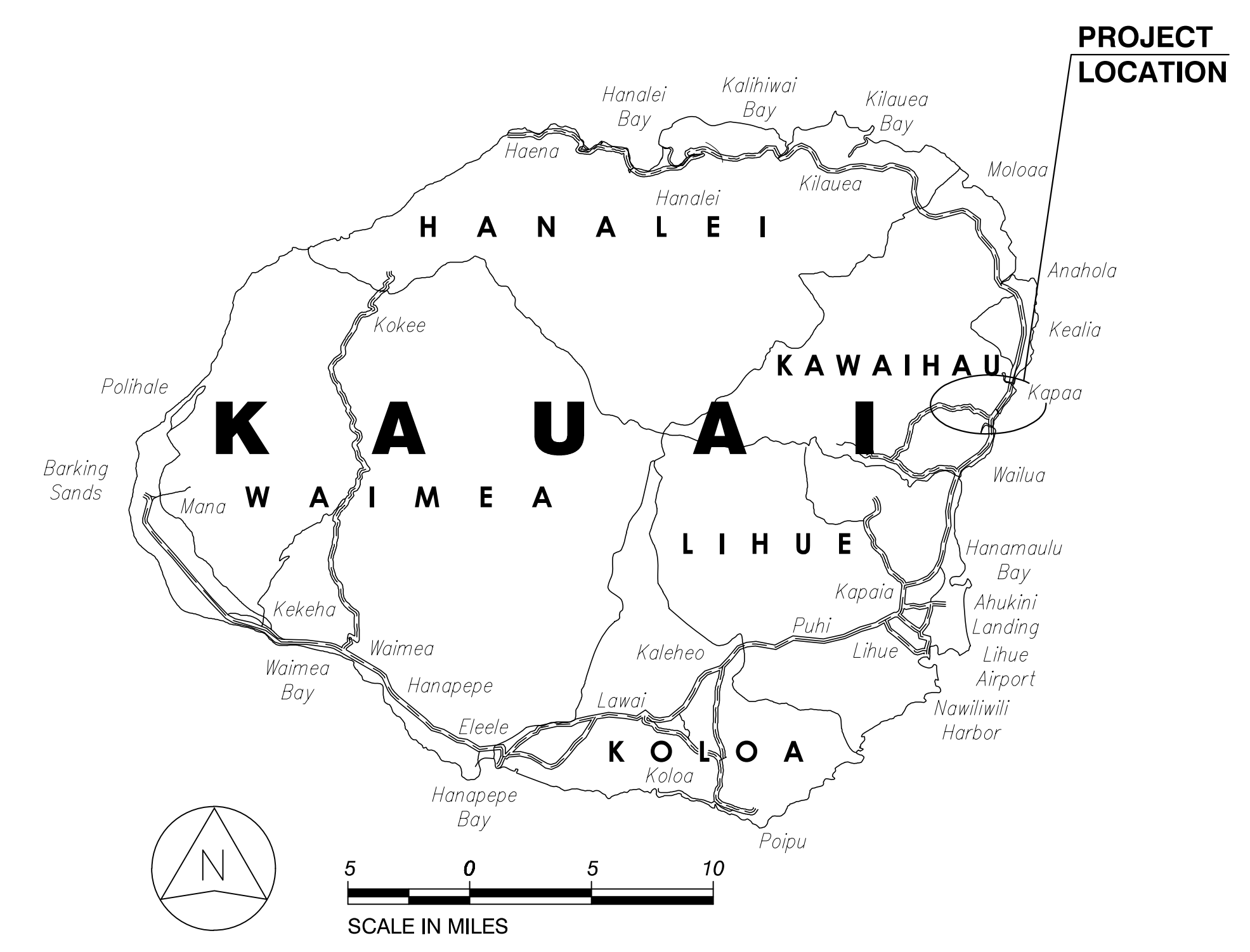


Scale: Not to Scale




LAYOUT PLAN

GROSS LENGTH OF PROJECT 0.06 MILES
NET LENGTH OF PROJECT 0.06 MILES



AKINAKA & ASSOCIATES, LTD. DESIGNED BY
HWY-DS MANAGED BY
241-3015 PHONE
DEC. 2023 DATE

DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII
APPROVED:

for DIR. OF TRANSPORTATION
Dec 7, 2023
DATE

STANDARD PLANS SUMMARY

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII | HAW. | 5600-02-23M | 2024 | 2 | 21 |

| STANDARD PLAN NO. | TITLE | DATE |
|-------------------|---|----------|
| B-01 | NOTES & MISCELLANEOUS DETAILS | 05/31/07 |
| B-03 | BACKFILL DETAILS AT EARTH RETAINING STRUCTURES | 05/31/07 |
| B-12 | PRESTRESSED CONCRETE PILES & COMPRESSION SPLICE CAN DETAILS | 05/31/07 |
| B-12A | PRESTRESSED CONCRETE PILES, PILE & COMPRESSION SPLICE CAN DETAILS & NOTES | 05/31/07 |
| B-12B | PILE INTERACTION DIAGRAM | 05/31/07 |
| B-13 | PRESTRESSED CONCRETE PILE BUILD-UP DETAILS | 05/31/07 |

| | | |
|------|---|----------|
| D-01 | CATTLE GATE | 05/31/07 |
| D-02 | CHAIN LINK FENCE WITH TOPRAIL | 05/31/07 |
| D-03 | CHAIN LINK FENCE WITHOUT TOPRAIL | 05/31/07 |
| D-04 | WIRE FENCE WITH METAL POSTS | 05/31/07 |
| D-05 | TYPICAL DETAILS OF CURBS AND/OR GUTTERS | 05/31/07 |
| D-06 | TYPICAL DETAIL OF REINFORCED CONCRETE DROP DRIVEWAY | 05/31/07 |
| D-07 | CENTERLINE AND REFERENCE SURVEY MONUMENTS | 05/31/07 |
| D-08 | STREET SURVEY MONUMENT | 05/31/07 |
| D-15 | CONCRETE SIDEWALK | 05/31/07 |
| D-16 | P.C.C. BUS PAD | 05/31/07 |
| D-17 | P.C.C. BUS PAD | 05/31/07 |
| D-18 | P.C.C. PAVEMENT LAYOUT | 05/31/07 |
| D-19 | P.C.C. PAVEMENT W/ PERMEABLE BASE JOINT DETAILS | 05/31/07 |
| D-20 | P.C.C. PAVEMENT W/ PERMEABLE BASE JOINT DETAILS | 05/31/07 |
| D-21 | P.C.C. LONGITUDINAL JOINT DETAILS | 05/31/07 |
| D-22 | P.C.C. CONNECTION TO CURBS AND GUTTERS | 05/31/07 |
| D-23 | JOINTS | 05/31/07 |

| | | |
|------|--------------------|----------|
| L-01 | TREE PLANTING | 08/16/06 |
| L-02 | TREE PLANTING | 08/16/06 |
| L-03 | TREE TRANSPLANTING | 08/16/06 |
| L-04 | PALM PLANTING | 08/16/06 |
| L-05 | SHRUB PLANTING | 08/16/06 |
| L-06 | LANDSCAPE DETAILS | 08/16/06 |
| L-07 | LANDSCAPE DETAILS | 08/16/06 |
| L-08 | LANDSCAPE DETAILS | 08/16/06 |
| L-09 | LANDSCAPE DETAILS | 08/16/06 |
| L-10 | LANDSCAPE DETAILS | 08/16/06 |
| L-11 | PLANTING NOTES | 08/16/06 |
| L-12 | IRRIGATION DETAILS | 08/16/06 |
| L-13 | IRRIGATION DETAILS | 08/16/06 |
| L-14 | IRRIGATION DETAILS | 08/16/06 |
| L-15 | IRRIGATION DETAILS | 08/16/06 |
| L-16 | IRRIGATION DETAILS | 08/16/06 |
| L-17 | IRRIGATION DETAILS | 08/16/06 |
| L-18 | IRRIGATION DETAILS | 08/16/06 |
| L-19 | IRRIGATION DETAILS | 08/16/06 |
| L-20 | IRRIGATION DETAILS | 08/16/06 |
| L-21 | IRRIGATION DETAILS | 08/16/06 |
| L-22 | IRRIGATION DETAILS | 08/16/06 |
| L-23 | IRRIGATION DETAILS | 08/16/06 |
| L-24 | IRRIGATION NOTES | 08/16/06 |

| STANDARD PLAN NO. | TITLE | DATE |
|-------------------|--|----------|
| H-01A | TYPE A CATCH BASIN | 05/31/07 |
| H-01B | TYPE B CATCH BASIN | 05/31/07 |
| H-01C | TYPE C CATCH BASIN | 05/31/07 |
| H-01D | TYPE D CATCH BASIN | 05/31/07 |
| H-01E | CATCH BASIN SECTIONS | 05/31/07 |
| H-02A | TYPE A1 CATCH BASIN | 05/31/07 |
| H-02B | TYPE B1 CATCH BASIN | 05/31/07 |
| H-02C | TYPE C1 CATCH BASIN | 05/31/07 |
| H-02D | TYPE D1 CATCH BASIN | 05/31/07 |
| H-02E | CATCH BASIN SECTION | 05/31/07 |
| H-03 | TYPE A,B, AND C STORM DRAIN MANHOLE | 05/31/07 |
| H-04 | TYPE D STORM DRAIN MANHOLE | 05/31/07 |
| H-05 | TYPICAL REINFORCING DETAILS FOR DRAINAGE STRUCTURES | 05/31/07 |
| H-06 | TYPICAL REINFORCING DETAILS FOR DRAINAGE STRUCTURES | 05/31/07 |
| H-07 | CATCH BASIN AND MANHOLE CASTINGS | 05/31/07 |
| H-08 | TYPE 1A-9 AND 1A-9P GRATED DROP INLET | 05/31/07 |
| H-09 | TYPE 2A-9 AND 2A-9P GRATED DROP INLET | 05/31/07 |
| H-10 | TYPE A-9 OR A-9P STEEL FRAMES | 05/31/07 |
| H-11 | TYPE A-9 AND A-9P STEEL GRATES | 05/31/07 |
| H-12 | TYPE 61614P AND 1211214P GRATED DROP INLET | 05/31/07 |
| H-13 | TYPE 61616P AND 1211216P GRATED DROP INLET | 05/31/07 |
| H-14 | TYPE 61214P GRATED DROP INLET | 05/31/07 |
| H-15 | TYPE 1211214, 1211214P, 1211216, 1211216P STEEL FRAME AND GRATES | 05/31/07 |
| H-16 | TYPE 61614, 61614P, 61616, 61616P STEEL FRAME AND GRATES | 05/31/07 |
| H-17 | TYPE 61214 STEEL FRAMES AND GRATES | 05/31/07 |
| H-18 | TYPE 61214P STEEL GRATES | |
| H-19 | TYPE 61614B STEEL FRAME AND GRATES | 05/31/07 |
| H-20 | CEMENT RUBBLE MASONRY STRUCTURES | 05/31/07 |
| H-21 | CONCRETE AND CEMENT RUBBLE MASONRY STRUCTURES | 05/31/07 |
| H-22 | INLET/OUTLET STRUCTURE | 05/31/07 |
| H-23 | INLET/OUTLET STRUCTURE | 05/31/07 |
| H-24 | FLARED END SECTION FOR CULVERTS | 05/31/07 |
| H-25 | FLARED END SECTION FOR CULVERTS | 05/31/07 |
| H-26 | CONCRETE SPILLWAY INLET | 05/31/07 |
| H-27 | CAP COUPLING DETAILS STANDARD JOINT | 05/31/07 |
| H-28 | REINFORCED CONCRETE COLLAR & JACKET | 05/31/07 |
| H-29 | UNDERDRAIN CLEANOUT STEEL FRAME AND COVER | 05/31/07 |
| H-30 | UNDERDRAIN CONNECTION TO DRAINAGE STRUCTURE | 05/31/07 |

| | | |
|--------|---|----------|
| TE-01 | SIGN HEIGHT AND LOCATION | 07/11/08 |
| TE-01A | SIGN INSTALLATION | 07/11/08 |
| TE-02A | GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING | 05/31/07 |
| TE-02B | GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING | 05/31/07 |
| TE-02C | GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING | 05/31/07 |
| TE-03A | GALVANIZED SQUARE TUBE SIGN POST MOUNTING | 05/31/07 |
| TE-03B | GALVANIZED SQUARE TUBE SIGN POST MOUNTING | 05/31/07 |
| TE-04 | REGULATORY SIGNS | 07/11/08 |
| TE-05 | WARNING SIGNS | 07/11/08 |
| TE-06 | MISCELLANEOUS SIGNS | 07/11/08 |
| TE-07 | CONSTRUCTION SIGNS | 07/11/08 |
| TE-08 | MISCELLANEOUS INTERSECTION SIGNS | 07/11/08 |

| STANDARD PLAN NO. | TITLE | DATE |
|-------------------|--|----------|
| TE-09 | BIKE ROUTE SIGN & SUPPLEMENTARY PLATES | 07/11/08 |
| TE-10 | INTERSTATE ROUTE MARKER | 07/11/08 |
| TE-11 | STATE ROUTE MARKER AND AUXILIARY MARKERS | 07/11/08 |
| TE-12 | STATE ROUTE MARKER AND BORDER DETAIL FOR GUIDE SIGNS | 07/11/08 |
| TE-12A | ROUTE SIGN ASSEMBLIES | 07/11/08 |
| TE-13 | STREET NAME SIGN ON MAST ARM | 07/11/08 |
| TE-14 | MISCELLANEOUS REFLECTOR MARKERS | 07/11/08 |
| TE-15 | OBJECT MARKERS | 07/11/08 |
| TE-16 | MILE POSTS | 07/11/08 |
| TE-17A | CANTILEVER OVERHEAD SIGN ELEVATION & DETAILS | 05/31/07 |
| TE-17B | CANTILEVER SIGN FRAME DETAIL AND SECTION | 05/31/07 |
| TE-17C | CANTILEVER SIGN FRAME DETAIL | 05/31/07 |
| TE-17D | CANTILEVER SIGN FRAME SECTION | 05/31/07 |
| TE-17E | CANTILEVER SIGN FRAME DETAILS | 05/31/07 |
| TE-18A | TWO POST OVERHEAD SIGN FRAME ELEVATIONS | 05/31/07 |
| TE-18B | TWO POST SIGN FRAMING PLAN SECTION | 05/31/07 |
| TE-18C | TWO POST SIGN FRAMING SECTIONS AND DETAILS | 05/31/07 |
| TE-18D | TWO POST SIGN FRAME DETAILS | 05/31/07 |
| TE-18E | TWO POST SIGN FRAME DETAILS | 05/31/07 |
| TE-19A | OVERHEAD SIGN FRAMING SCHEDULE | 05/31/07 |
| TE-19B | SIGN POST DRILLED SHAFT FOUNDATION | 05/31/07 |
| TE-19C | SPREAD FOOTING | 05/31/07 |
| TE-19D | SIGN FRAME FOUNDATION SCHEDULE | 05/31/07 |
| TE-19D.1 | SIGN FRAME FOUNDATION SCHEDULE | 05/31/07 |
| TE-19D.2 | SIGN FRAME FOUNDATION SCHEDULE | 05/31/07 |
| TE-19D.3 | SIGN FRAME FOUNDATION SCHEDULE | 05/31/07 |
| TE-19D.4 | SIGN FRAME FOUNDATION SCHEDULE | 05/31/07 |
| TE-19D.5 | SIGN FRAME FOUNDATION SCHEDULE | 05/31/07 |
| TE-19E | ANCHORAGE DETAILS | 05/31/07 |
| TE-19F | ANCHORAGE DETAILS | 05/31/07 |
| TE-19G | MISCELLANEOUS SIGN FRAME DETAILS | 05/31/07 |
| TE-19H | LUMINAIRE WALKWAY SUPPORT | 05/31/07 |
| TE-19J | FIXED MESSAGE LUMINAIRE SUPPORT | 05/31/07 |
| TE-19K | MISCELLANEOUS SIGN DETAILS | 05/31/07 |
| TE-19L | MISCELLANEOUS SIGN DETAILS | 05/31/07 |
| TE-19M | MISCELLANEOUS SIGN FRAME DETAILS | 05/31/07 |
| TE-20 | SUPPORTS FOR GROUND MOUNTED GUIDE SIGN | 05/31/07 |
| TE-20A | SUPPORTS FOR GROUND MOUNTED GUIDE SIGN | 05/31/07 |
| TE-20B | SUPPORTS FOR GROUND MOUNTED GUIDE SIGN | 05/31/07 |
| TE-20C | SUPPORTS FOR GROUND MOUNTED GUIDE SIGN | 05/31/07 |
| TE-21A | SIGN BREAKAWAY MOUNTS | 05/31/07 |
| TE-21B | SIGN BREAKAWAY MOUNTS | 05/31/07 |
| TE-22 | LAMINATED ALUMINUM SIGN PANELS (OVERHEAD) | 05/31/07 |
| TE-23 | LAMINATED ALUMINUM SIGN PANELS (GROUND MOUNTED) | 07/11/08 |
| TE-24 | SOLID ALUMINUM EXTRUDED SIGN PANEL AND ACCESSORY DETAILS | 05/31/07 |
| TE-25 | GUIDE SIGNS LUMINAIRE MOUNTINGS | 05/31/07 |
| TE-26 | RAISED PAVEMENT MARKERS AND STRIPING | 07/11/08 |
| TE-27 | RAISED PAVEMENT MARKERS AND STRIPING | 07/11/08 |
| TE-28 | ENTRANCE AND EXIT PAVEMENT MARKINGS | 07/11/08 |
| TE-28A | MISCELLANEOUS PAVEMENT MARKINGS | 07/11/08 |
| TE-29 | PAVEMENT ARROWS AND SYMBOLS | 07/11/08 |
| TE-30 | PAVEMENT ALPHABETS, NUMBERS & SYMBOLS | 07/11/08 |
| TE-31 | PAVEMENT ALPHABETS, NUMBERS & SYMBOLS | 07/11/08 |

| STANDARD PLAN NO. | TITLE | DATE |
|-------------------|---|----------|
| TE-32 | TYPE I & II TRAFFIC SIGNAL SYSTEM MISC. DETAILS | 05/31/07 |
| TE-33 | TYPE II TRAFFIC SIGNAL SYSTEM | 08/16/06 |
| TE-33A.1 | TYPE II TRAFFIC SIGNAL STANDARD | 05/31/07 |
| TE-33A.2 | TYPE II TRAFFIC SIGNAL STANDARD | 05/31/07 |
| TE-34 | LOOP DETECTOR DETAILS | 07/11/08 |
| TE-35 | LOOP DETECTORS & DUCT DETAILS | 07/11/08 |
| TE-36 | TRAFFIC SIGNAL DETAILS | 07/11/08 |
| TE-37 | PULLBOX & COVER DETAILS | 07/11/08 |
| TE-37A | TYPE "A" TRAFFIC PULLBOX | 05/31/07 |
| TE-37B | TYPE "A" TRAFFIC PULLBOX REINFORCING | 05/31/07 |
| TE-37C | TYPE "B" TRAFFIC PULLBOX | 05/31/07 |
| TE-37D | TYPE "B" TRAFFIC PULLBOX REINFORCING | 05/31/07 |
| TE-37E | TYPE "B" TRAFFIC PULLBOX FOUNDATION | 05/31/07 |
| TE-37F | TYPE "C" TRAFFIC PULLBOX | 05/31/07 |
| TE-37G | TYPE "C" TRAFFIC PULLBOX REINFORCING | 05/31/07 |
| TE-37H | TYPE "C" TRAFFIC PULLBOX FOUNDATION | 05/31/07 |
| TE-37J | TRAFFIC PULLBOX COVER AND DETAILS | 05/31/07 |
| TE-38 | TYPE III TRAFFIC SIGNAL STANDARD | 05/31/07 |
| TE-38A.1 | TYPE III TRAFFIC SIGNAL STANDARD | 05/31/07 |
| TE-38A.2 | TYPE III TRAFFIC SIGNAL STANDARD | 05/31/07 |
| TE-39 | METAL GUARDRAIL CONNECTION TO CONCRETE BARRIER | 07/11/08 |
| TE-40 | CONCRETE BARRIER TRANSITION | 05/31/07 |
| TE-40A | CONCRETE BARRIER TRANSITION | 05/31/07 |
| TE-41 | GUARDRAIL TYPE 4 (RIGID BARRIER) | 05/31/07 |
| TE-42 | PORTABLE CONCRETE BARRIER | 05/31/07 |
| TE-43 | PORTABLE CONCRETE BARRIER | 05/31/07 |
| TE-44 | GUARDRAIL TYPE 4 MISCELLANEOUS DETAILS | 07/11/08 |
| TE-45 | BARRICADES | 07/11/08 |
| TE-46 | DELINEATION & PAVEMENT MARKINGS AT NARROW BRIDGES | 07/11/08 |
| TE-47 | HIGHWAY LIGHT STANDARD | 05/31/07 |

NOTE:
STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A "●" NEXT TO THE STANDARD PLAN NO. (FOR EXAMPLE: D-07 ●)



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD PLANS SUMMARY

**TEMPORARY KAPAA BYPASS
ROAD REPAIR**
Vicinity of Olohena Road
Project No. 5600-02-23M

Scale: None Date: December, 2023

SHEET No. N-1 OF 4 SHEETS

| | |
|-------------------|--|
| DATE | |
| SURVEY PLOTTED BY | |
| DRAWN BY | |
| DESIGNED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII | HAW. | 5600-02-23M | 2024 | 3 | 21 |

GENERAL NOTES:

- The scope of work for this project includes reconstructing weakened pavement areas and concrete curb; installing new HMA pavement and roadway underdrain system; reinstalling pavement markings; and dressing of shoulders.
- The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
- The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104(1) - Utilities and Services; and Section 645 - Work Zone Traffic Control.
- Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
- The Contractor shall notify the Engineer in writing, through the e-construction platform, two (2) weeks prior to starting of his operations.
- 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 and pedestrians.
- All lanes shall be open to traffic during peak hours of 6:30 A.M. to 8:30 A.M., during afternoon peak hours from 3:30 P.M. to 6:30 P.M., and during off work hours. Failure of the Contractor to open all lanes of traffic during the times specified above shall result in assessment of rental fees as specified in Section 108.09 - Rental Fees for Unauthorized Lane Closure or Occupancy.
- All workers within the State right-of-way who are exposed to either vehicles using the roadway or to construction equipment shall wear high-visibility safety apparel that meets the Performance Class 2 or 3 requirements of ANSI/ISEA 107-2004. "Workers" is defined as people on foot whose duties place them with the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g. EMT and Firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.
- No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designated in writing and approved by the Engineer. Prior to start of work, the Contractor shall obtain a permit to use the property within the highway right-of-way from the State Highways Division at telephone no. (808) 241-3000 or dot.hwyk.permits@hawaii.gov.
- The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.

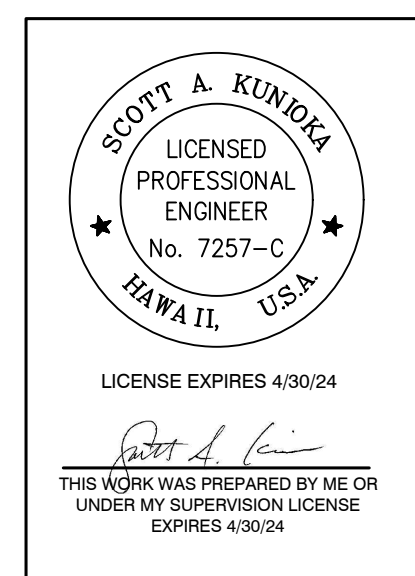
- Prior to construction, the Contractor shall contact the various utility agencies for location of existing utilities within the project limits. The Contractor shall locate and protect all existing utilities whether or not shown on the plans. Any costs incurred by damages to existing utilities will be borne by the Contractor. Contractor shall request from One-Call Center, Ph. 1-866-432-7287. The Contractor shall also call the County of Kauai, Department of Water, Ph: (808) 245-5400 and the Wastewater Division, Ph: (808) 241-6642 for toning waterlines and sewerlines respectively. The Contractor shall document his effort in the e-construction platform.
- All works of toning, probing, hand digging and all other means of utility verifications shall not be paid for separately, but shall be considered incidental to the various contract items.
- The Contractor shall provide for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to the various contract items.
- Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, and tools to maintain flow. This work shall be considered incidental to the various contract items.
- The Contractor, at his own expense, shall keep the project area and surrounding area free from dust nuisance.
- Smooth riding connections shall be constructed at all limits of resurfacing, including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans.
- Contractor shall exercise extreme caution to preserve all existing right-of-way centerline, as-built, construction, and NGS (horizontal and vertical in the NGS database) monuments located within the State of Hawaii Right-of-way. If monuments are disturbed or destroyed, the Engineer shall be notified. Reconciliation to the Right-of-Way Baseline and/or boundary study and determination may be required prior to re-installation of the disturbed or destroyed monuments. The Engineer shall be contacted for guidelines and procedures prior to construction.

A State of Hawaii Licensed Surveyor shall perform the location and staking of the reset monument. The DOT Standard Plans and Specifications, with the exception of NGS monuments which shall have a NGS approved "brass disk" marker, shall be referenced for the monument type and materials.

Any NGS vertical monuments that are deemed necessary for relocation due to construction shall follow the NGS benchmark reset procedures written by Curtis Smith dated September 2010 or newer. All work must be done by an electronic digital level that is acceptable by NGS for second-order class one or higher work. The surveyor must use tow one-piece invar barcode rods with current certifications with struts with 15 lbs turning plate or turtles; and/or turning pin with driving cap and temperature readings. Contact NGS prior to any work to ensure all equipment meets reset specifications. A State of Hawaii Licensed Surveyor shall perform the relocation. All work must be submitted both in electronic and hard copy formats to NGS and the Engineer. All monument work shall be considered incidental to this project, unless noted otherwise.

- Should historic remains such as artifacts, burials, concentration of shell or charcoal be encountered during construction activities, work shall cease in the immediate vicinity of the find. The Contractor shall immediately notify the Planning Department and State Historic Preservation Division at (808) 241-3690, which will assess the significance of the find and recommend the appropriate mitigation measures, if necessary.
- The Contractor shall take measures to reduce the spread of invasive species (e.g. Rapid Ohia Death) such as by minimizing the movement of plant or soil material between worksites, such as fill. Additionally, all equipment, materials and personnel should be cleaned of excess soil and debris to minimize the risk of spreading invasive species.
- All saw cutting work and removal shall be considered incidental to the various contract items and will not be paid for separately.
- The Contractor, at his own expense, shall hydro-mulch and maintain per Section 641 - Hydro-Mulch Seeding of the HDOT Standard Specification all areas disturbed by his operations.
- Earth swales shall be graded to the drains. Graded swales and shoulder shall be grassed. This work shall be considered incidental to the various contract items.
- Trimming and dressing of shoulder shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. Suitable materials shall include materials from roadway excavation, including topsoil and base material therefrom, and if necessary, additional materials from borrow outside the limits of the right-of-way. Asphalt concrete removed from roadway reconstruction shall not be used for dressing of shoulder. This work shall be considered incidental to the various contract items.
- Prior to his paving operations, the Contractor shall be responsible for locating, preserving and marking all utility & highway facilities that will require adjustments to the new finished pavement grade. Additionally, the Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, electrical, telephone and cable utilities to be adjusted to the new finished grade.

| | |
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| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| DESIGNED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES

**TEMPORARY KAPAA BYPASS
ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M**

Scale: None Date: December, 2023



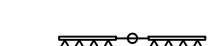





SHEET No. N-2 OF 4 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII | HAW. | 5600-02-23M | 2024 | 4 | 21 |

GENERAL NOTES (Cont.):

25. The exact locations and limits or areas to be excavated and reconstructed shall be determined in the field by the Engineer.
26. All asphalt concrete materials from roadway reconstruction operations shall become property of the Contractor. The Contractor shall remove and dispose these materials and shall be considered incidental to various contract items. The Contractor shall provide the Solid Waste Disclosure notice to the HDOT Engineer.
27. At the end of each day's paving operations, temporary pavement markers and striping shall be in place prior to leaving the site.
28. After completion of resurfacing, the Contractor and the Engineer will test for and determine ponding areas (i.e. low spots within the resurfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas at no cost to the State.
29. Removal and disposal of asphalt concrete curb, concrete curb, sidewalk, traffic signs, pavement marking and striping shall be considered incidental to various contract items and shall not be paid for separately.
30. Furnishing and installation of reinforcing bars, epoxy grout, premolded joint filler with sealant and bed course materials shall be considered incidental to Item 638.2020 - Curb, Type 2D and shall not be paid for separately.
31. After completion of the work, the Contractor shall submit the complete set of "as-built" plans to the Engineer.

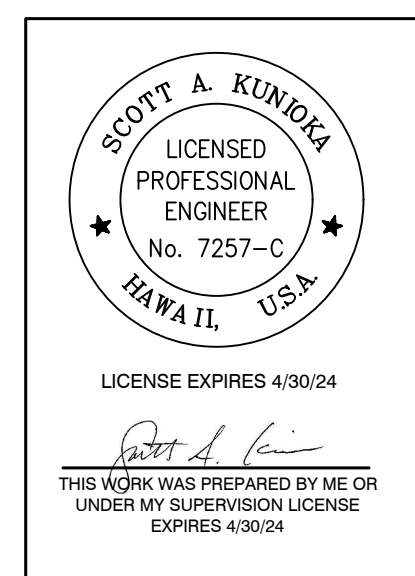
LEGEND:

-  New HMA Pavement Areas
-  Pavement Reconstruction Areas
-  Existing Field Light
-  Existing Traffic Sign
-  Existing Grated Drop Inlet
-  Existing Ground Elevation
-  Finished Grade Elevation
-  Existing Sewer Force Main

ABBREVIATIONS:

- | | | | |
|------|--|------|-------------------------|
| AC | ASPHALT CONCRETE | INV | INVERT |
| ADA | AMERICANS WITH DISABILITIES ACT | LF | LINEAR FEET |
| AVE | AVENUE | Lt. | LEFT |
| ⊕ | BASELINE | NTS | NOT TO SCALE |
| BC | BOTTOM CURB | o/s | OFFSET |
| BMP | BEST MANAGEMENT PRACTICES | OM | OBJECT MARKER |
| BV | BOTTOM VERTICAL BEND | PBX | PANEL BOX |
| BW | BOTTOM WALL | PVMT | PAVEMENT |
| Ⓞ | CENTERLINE | PVC | POLYVINYL CHLORIDE |
| CLF | CHAIN LINK FENCE | R | RADIUS |
| CONC | CONCRETE | RD | ROAD |
| COTG | CLEANOUT TO GRADE | REF | REFLECTOR |
| CY | CUBIC YARD | RPM | RAISED PAVEMENT MARKING |
| D | DIAMETER OR DRAIN | Rt. | RIGHT |
| DI | GRATED DROP INLET | R/W | RIGHT-OF-WAY |
| DOT | STATE OF HAWAII DEPARTMENT OF TRANSPORTATION | SF | SQUARE FEET |
| | | SHT | SHEET |
| ELEC | ELECTRIC | SR | STATE ROUTE |
| ELEV | ELEVATION | ST | STREET |
| ep | EXISTING EDGE OF PAVEMENT | STA. | STATION |
| EP | NEW EDGE OF PAVEMENT | STD | STANDARD |
| es | EXISTING EDGE OF SHOULDER | T | TANGENT |
| ES | NEW EDGE OF SHOULDER | TC | TOP CURB |
| H | HEIGHT; HORIZONTAL BEND | TV | TOP VERTICAL BEND |
| HP | HIGH POINT | TW | TOP WALL |
| HMA | HOT MIX ASPHALT | TYP. | TYPICAL |
| HWY | HIGHWAY | U/G | UNDERGROUND |

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES

**TEMPORARY KAPAA BYPASS
ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M**

Scale: None Date: December, 2023

SHEET No. N-3 OF 4 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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HISTORICAL PRESERVATION NOTES:

1. If cultural materials such as artifacts, burials, concentrations of shell or charcoal be encountered during construction, all earth-moving activity within and around the immediate discovery area shall cease immediately and the find shall be protected from further damage. The Contractor shall immediately notify the Planning Department and State Historic Preservation Division at (808) 241-3690, which will assess the significance of the find and recommend appropriate mitigation measures, if necessary.
2. If previously unidentified non-burial historic properties, or unanticipated effects are discovered, the Contractor shall follow the Hawaii Administrative Rules (HAR) Chapter 13-280 "Rules Governing General Procedures for Inadvertent Discoveries of Historic Properties During a Project Covered by the Historic Preservation Review Process".
3. If human remains are discovered, HAR Title 13, Subtitle 13, Chapter 300 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains and the State Historic Preservation Division and the Police Department will be contacted. The appropriate process would then proceed in conformance with HAR Section 13-300, Subchapter 4, "Procedures for Proper Treatment of Burial Sites and Human Skeletal Remains".

MAMMALIAN PROTECTION NOTES:

1. The contractor shall incorporate the following measures to avoid and minimize project-related adverse effects to the Hawaiian Hoary Bat:
 - a. There shall be no disturbance, removal, or trimming of woody plants greater than 15 feet (4.6 meters) tall during the Hawaiian Hoary Bat birthing and pup rearing season (June 1 through September 15).
 - b. Barbed wire shall not be used for fencing.

AVIAN PROTECTION NOTES:

1. The Contractor shall incorporate the following measures to avoid and minimize project-related adverse effects to the Hawaiian Seabirds (Hawaiian Petrel, Newell's Shearwater and Hawaii DPS of the Band-Rumped Storm-Petrel):
 - a. Before beginning any work at the project site, the Contractor shall:
 - i. Collect information regarding the protection of seabirds and seabird fallout.
 - ii. Submit to the Engineer for acceptance a protection of seabirds training plan including a detailed description of information and materials the Contractor intends to use in the training classes. The training plan shall be submitted to the Engineer for acceptance at least 15 days in advance of the class. If the Engineer rejects the training plan, the Contractor shall revise and promptly propose another training plan.
 - iii. Disseminate information regarding the protection of seabirds and seabird fallout by conducting training classes for all employees, subcontractors, suppliers and other personnel working on the project, including HDOT personnel, on such topics as the Save Our Shearwater (SOS) program, proper use of temporary lighting, procedures to store and report downed seabirds, and the consequences of non-compliance with the laws regarding threatened and endangered seabirds. The Engineer may request for additional topics related to seabirds to be included in the training classes. Training Classes shall be taught by authorized representatives of the U.S. Fish and Wildlife Services (USFWS), the Department of Land and Natural Resources (DLNR), the SOS program or other qualified personnel acceptable by the Engineer.

- iv. Furnish the Engineer with evidence that the Contractor has held training classes, including the dates of the classes, identify who conducted the training, and the content and nature of the training.
- b. The Contractor shall comply to the following construction requirements:
 - i. Conduct additional training classes during the project to update all employees, subcontractors, suppliers, HDOT personnel and other personnel on new and/or updated information regarding the protection of seabirds and seabird fallout.
 - ii. No permanent streetlights shall be installed as part of the project.
 - iii. All temporary lights used for night work (between sunset and sunrise) shall contain less than 2% wavelengths less than 500 nm, and shall be downward-facing and shielded so the bulb can only be seen from below. Temporary lights shall included but are not limited to flood lights, light towers, lights for construction equipment and other lights as determined by the Engineer. All traffic control devices, including warning lights, arrow boards, portable changeable message signs and other lighting devices as determined by the Engineer shall be shielded.
 - iv. Nighttime construction and the use of all temporary lights shall cease during the peak seabird fledgling period (September 15 through December 15).
 - v. Furnish and maintain a small (approximately 10"x12"x19"), portable cat kennel on site to temporarily hold a downed seabird. The Contractor shall obtain acceptance of the cat kennel from the Engineer prior to use.
 - vi. If a downed dead seabird is found, the Contractor shall contact the USFWS (Ms. Megan Laut at 808-792-9400) within 24 hours.
 - vii. If the downed seabird is alive, the Contractor shall:
 - I. Pick up the seabird from behind as soon as possible using a clean towel, t-shirt or cloth by gently wrapping it around its back and wings.
 - II. Place the seabird in the cat kennel and immediately contact the SOS Program Coordinator at (808) 635-5117 for further instructions on where to deliver the seabird.
 - III. Deliver the seabird to the location determined by the coordinator of the SOS program and as designated by the Engineer.
 - IV. Keep the seabird in a cool, quiet location and out of direct sunlight with adequate ventilation.
 - V. The Contractor and any personnel on-site shall not feed, provide water, handle or release the seabird.

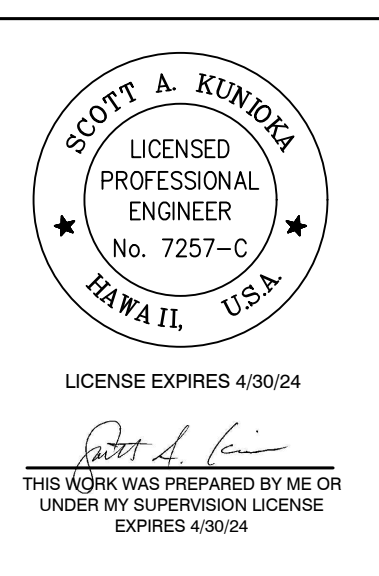
The Contractor shall maintain records of all downed seabirds for the duration of the project. The records shall include the date, time, location and condition (dead or alive) the seabird was found and delivered. Submit a copy of the records to the Engineer after each and every downed seabird.

2. The Contractor shall incorporate the following measures to avoid and minimize project-related adverse effects to the Hawaiian Waterbirds (Hawaiian Stilt, Hawaiian Coot, Hawaiian Common Gallinule, and the Hawaiian Duck).
 - a. In areas where known presence of Hawaiian waterbirds occurs, post, implement and enforce reduced speed limits, and inform project personnel and Contractors of the presence of these endangered species on-site.
 - b. Because water resources occur in the project site, employ USFWS Best Management Practices for Work in Aquatic Environments.
 - c. Survey for Hawaiian waterbirds and nests within the vicinity of the project area prior to initiation of project work using survey biologists familiar with the species' biology. Survey biologists should be trained and capable of identifying adults and juveniles of each species, nesting behaviors, and nests.
 - i. Surveys for species and nests should be repeated when a delay of work occurs that is three days or more (during which the birds may attempt to nest).

- ii. If a nest or active brood is found, contact USFWS within 24 hours for further guidance.
 - iii. Establish and maintain a 100-ft buffer around all active nests and/or broods until the chicks/ducklings have fledged. Do not conduct potentially disruptive activities or habitat alteration within this buffer.
 - iv. A biological monitor that is familiar with the species' biology shall be present on the project site during all construction or earth moving activities until the chicks/ducklings fledge to ensure that Hawaiian waterbirds and nests are not adversely affected.
- d. A biological monitor is required during Hawaiian Stilt nesting season from February 15 through August 31.
 - i. A biological monitor that is familiar with the species' biology and approved by the Federal Highways Administration will conduct Hawaiian Stilt nest surveys where appropriate habitat occurs within the proposed maintenance site prior to cleaning culverts and drainage structures.
 - ii. Surveys will take place within three days of project initiation and after any subsequent delay of work of three or more days (during which the birds may attempt to nest).
3. The Contractor shall incorporate the following measures to avoid and minimize project-related adverse effects to the Hawaiian Goose or Nene.
 - a. Nene in or near the project area shall not be approached, fed, or disturbed in any way.
 - b. If nene are observed loafing, foraging, or otherwise present within the project area during the breeding season (September 1 through April 30), a trained biologist familiar with nene nesting behavior will survey the area in and around the project area for nests prior to work each day. Surveys will be repeated after any subsequent delay of work of three or more days (during which the birds may attempt to nest).
 - c. If a nest is identified within a radius of 150 feet of the project area, or a previously undiscovered nest is found within 150-foot radius after work begins, all work shall cease and the USFWS will be contacted for further guidance.
 - d. Reduced speed limits shall be posted and implemented in areas where nene are known to be present, and project personnel and Contractors will be informed of the presence of endangered species on-site.
 - e. There shall be no feeding of birds or dogs on the project site.

BIOLOGICAL RESOURCE PROTECTION NOTES:

1. The Contractor shall take measures to reduce the spread of invasive species (e.g. Rapid Ohia Death):
 - a. Minimize the movement of plant or soil material between work sites.
 - b. All equipment, materials, and personnel should be cleaned of excess soil and debris to minimize the risk of spreading invasive species. Gear that may contain soil, such as work boots and vehicles, should be thoroughly cleaned with water and sprayed with 70% alcohol solution to prevent the spread of Rapid Ohia Death and other harmful fungal pathogens.
2. The information and guidance at <https://cms.ctahr.hawaii.edu/rod> shall be reviewed and followed if ohia trees are present and will be removed.



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HISTORIC PRESERVATION & ENVIRONMENTAL PROTECTION NOTES

TEMPORARY KAPAA BYPASS ROAD REPAIR
Vicinity of Oloheua Road
Project No. 5600-02-23M

Scale: None Date: December, 2023

SHEET No. N-4 OF 4 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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WATER POLLUTION AND EROSION CONTROL NOTES:

A. GENERAL:

- See Special Provisions Section 209 - Water Pollution and Erosion Control. Section 209 describes but is not limited to: submittal requirements; scheduling of a water pollution and erosion control conference with the Engineer; construction requirements; method of measurement; and basis of payment. In addition, Appendix A lists potential pollutant sources and corresponding BMPs used to mitigate the pollutants.
- Follow the guidelines in the current HDOT Construction Best Management Practices Field Manual in developing, installing and maintaining the Best Management Practices (BMP) for the project. For any conflicting requirements between the Manual and applicable bid documents, the applicable bid documents will govern. Should a requirement not be clearly described within the applicable bid documents, the Contractor shall notify the Engineer immediately for interpretation. For the purposes of clarification under Note A.2, "applicable bid documents" include the construction plans, standard specifications, Special Provisions, Permits, and the Storm Water Pollution prevention Plan (SWPPP) when applicable.
- Follow the guidelines in the Honolulu's City & County "Rules Relating to Soil Erosion Standards and Guidelines" along with applicable Soil Erosion Guidelines for projects on Maui, Molokai, Kauai, and Hawaii.
- The Engineer may assess liquidated damages of up to \$27,500 for non-compliance of each BMP requirement and each requirement stated in Section 209 and special provisions, for every day of non-compliance. There is no maximum limit on the amount assessed per day.
- The Engineer will deduct the cost from the progress payment for all citations received by the Department for non-compliance, or the Contractor shall reimburse the State for the full amount of the outstanding cost incurred by the State.
- If necessary, install a rain gage prior to any field work including the installation of any site-specific best management practices. The rain gage shall have a tolerance of at least 0.05 inches of rainfall. Install the rain gage on the project site in an area that will not deter rainfall from entering the gage opening. Do not install in a location where rain water may splash into rain gage. The rain gage installation shall be stable and plumbed. Do not begin field work until the rain gage is installed and site-specific best management practices are in-place.
- Submit Site-Specific BMP Plan to the Engineer along with a completed Site-Specific BMP Review Checklist within 21 calendar days of date of award. The Site-Specific BMP Review Checklist may be obtained from <http://www.stormwaterhawaii.com>.

B. WASTE DISPOSAL:

- Waste Materials**
Collect and store all waste materials in a securely lidded metal dumpster or roll off container with cover to keep rain out or loss of waste during windy conditions. The dumpster shall meet all local and State solid waste management regulations. Deposit all trash and construction debris from the site in the dumpster. Empty the dumpster weekly or when the container is two-thirds full, whichever is sooner. Do not bury construction waste materials onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Post notices stating these practices in the office trailer, on a weatherproof bulletin board, or other accessible location acceptable to the Engineer. The Contractor shall be responsible for seeing that these procedures are followed. Submit the Solid Waste Disclosure Form for Construction Sites to the Engineer within 21 calendar days of date of award. Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer monthly. This should also include documentation from any intermediary facility where solid waste is handled or processed.
- Hazardous Waste**
Dispose all hazardous waste materials in the manner specified by local or State regulations and by the manufacturer. The Contractor's site personnel shall be instructed in these practices and shall be responsible for seeing that these practices are followed.
- Sanitary Waste**
Collect all sanitary waste from the portable units a minimum of once per week, or as required. Position sanitary facilities where they are secure and will not be tipped over or knocked down.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

- For projects without an NPDES Permit for Construction Activities, inspect all control measures weekly.
- For projects with an NPDES Permit for Construction Activities, inspect at the following intervals. For construction areas discharging to nutrient or sediment impaired waters, inspect all control measures at least once each week and within 24 hours of any rainfall event of 0.25 inches or greater within a 24 hour period. For construction areas discharging to waters not impaired for nutrient or sediments, inspect all control measures weekly. Inspections are only required during the project's normal working hours. The discharge point water classification may be found in the SWPPP.

- Maintain all erosion and sediment control measures in good working order. If repair is necessary, initiate repair immediately and complete by the close of the next work day if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. When installation of a new erosion or sediment control or a significant repair is needed, install the new or modified control or complete the repair no later than 7 calendar days from the time of discovery. "Immediately" means the Contractor shall take all reasonable measures to minimize or prevent discharge of pollutants until a permanent solution is installed and made operational. If a problem is identified at a time in the day in which it is too late to initiate repair, initiation of repair shall begin on the following work day.
- Remove built-up sediment from silt fence when it has reached one-third the height of the fence. Remove sediment from other perimeter sediment control devices when it has reached one-half the height of the device.
- Inspect silt screen or fence for depth of sediment, tears, to verify that the fabric is securely attached to the fence posts or concrete slab and to verify that the fence posts are firmly in the ground. Inspect and verify the bottom of the silt screen is buried a minimum of 6 inches below the existing ground.
- Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
- Complete and submit to the Engineer a maintenance inspection report within 24 hours after each inspection.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER POLLUTION & EROSION CONTROL NOTES

TEMPORARY KAPAA BYPASS
ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M

Scale: None Date: December, 2023

SHEET No. EC-1 OF 5 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

8. Provide a stabilized construction entrance at all points of exit onto paved roads to reduce vehicle tracking of sediments. Include stabilized construction entrance in the Water Pollution, Dust, and Erosion Control submittals. Minimum length should be 50 feet. Minimum width should be 30 feet. Minimum depth should be 12 inches or as recommended by the soils engineer and underlain with geo-textile fabric. If minimum dimensions cannot be met, provide other stabilization techniques that remove sediment prior to exit. Clean the paved street adjacent to the site entrance daily or as required to remove any excess mud, cold-planed materials, dirt or rock tracked from the site. Do not hose down the street without containing or vacuuming wash water. Cover dump trucks hauling material from the construction site with a tarpaulin. Remove sediment tracked onto the street, sidewalk, or other paved area by the end of the day in which the track-out occurs.
9. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.
10. Submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
11. Personnel selected for the inspection and maintenance responsibilities shall receive training from the Contractor. They shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.
12. Contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP practices. Do not allow discharge into the drainage system or State waters.
13. For projects without an NPDES Permit for Construction Activities, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities.
14. For projects with an NPDES Permit for Construction Activities, immediately initiate stabilizing exposed soil areas upon completion of earth-disturbing activities for areas where earth-disturbing activities have permanently or temporarily ceased. Earth-disturbing activities have permanently ceased when clearing and excavation within any area of the construction site that will not include permanent structure has been completed. Earth-disturbing activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume (i.e., the land will be idle) for a period of 14 or more calendar days, but such activities will resume in the future. For construction areas discharging into waters not impaired for nutrients sediments, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities. For construction areas discharging into nutrient or sediment impaired waters, complete initial stabilization within 7 calendar days after the temporary or permanent cessation of earth-disturbing activities. Classification of water at the discharge point may be found in the SWPPP.

1. Materials Pollution Prevention Plan
 - a. Applicable materials or substances listed below are expected to be present onsite during construction. Other materials and substances not listed below shall be added to the inventory.

| | |
|---------------------------|---------------------------|
| Concrete | Cleaning Solvents |
| Detergents | Wood |
| Paints (enamel and latex) | Masonry Block |
| Metal Studs | Herbicides and Pesticides |
| Tar | Curing Compounds |
| Fertilizers | Adhesives |
| Petroleum Based Products | |
 - b. Use Material Management Practices to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. Make an effort to store only enough product as is required to do the job.
 - c. Store all materials stored onsite in a neat, orderly manner in their appropriate containers and if possible under a roof or other enclosure.
 - d. Keep products in their original containers with the original manufacturer's label.
 - e. Do not mix substances with one another unless recommended by the manufacturer.
 - f. Whenever possible, use a product up completely before disposing of the container.
 - g. Follow manufacturer's recommendations for proper use and disposal.
 - h. Conduct a daily inspection to ensure proper use and disposal of materials onsite.
2. Hazardous Material Pollution Prevention Plan
 - a. Keep products in original containers unless they are not resealable.
 - b. Retain original labels and Safety Data Sheets (SDS), formerly Material Safety Data Sheets (MSDS).
 - c. Dispose of surplus products according to manufacturers' instructions and local and State regulations.
3. Onsite and Offsite Product Specific Plan

The following product specific practices shall be followed onsite:

 - a. Petroleum Based Products:

Monitor all onsite vehicles for leaks and perform regular preventive maintenance to reduce the chance of leakage. Store petroleum products in tightly sealed containers which are clearly labeled. Apply asphalt substances used onsite according to the manufacturer's recommendation.
 - b. Fertilizers:

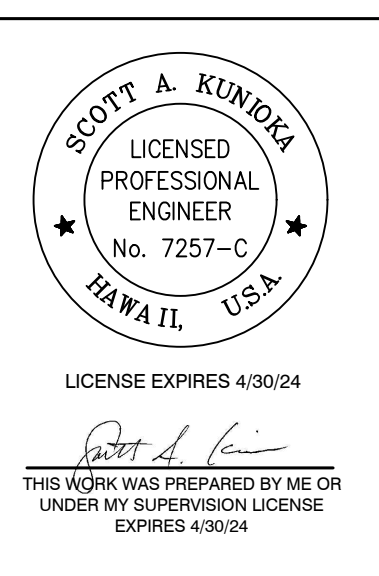
Apply fertilizers used only in the minimum amounts recommended by the manufacturer and federal, state, and local requirements. Avoid applying just before a heavy rain event. Apply at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth. Once applied, work fertilizer into the soil to limit exposure to storm water. Do not apply to storm conveyance channels with flowing water. Storage shall be in a covered shed or in an area where fertilizer will not come into contact with precipitation or stormwater. Transfer the contents of any partially used bags of fertilizer to a sealable plastic bin to avoid spills.
 - c. Paints:

Seal and store all containers when not required for use. Do not discharge excess paint to the drainage system, sanitary sewer system, or State waters. Dispose properly according to manufacturers' instructions and State and local regulations.

- d. Concrete Trucks:

Washout or discharge concrete truck drum wash water only at a designated site as far as practicable from storm drain inlets or State waters. Do not discharge water in the drainage system or State waters. Disposal by percolation is prohibited. Clean disposal site as required or as requested by the Engineer.
4. Spill Control Plan
 - a. Post a spill prevention plan to include measures to prevent and clean up each spill.
 - b. The Contractor shall be the spill prevention and cleanup coordinator. Designate at least three site personnel who shall receive spill prevention and cleanup training. These individuals shall each become responsible for a particular phase of prevention and cleanup. Post the names of responsible spill personnel in the material storage area on a weatherproof bulletin board or other accessible location acceptable to the Engineer and in the office trailer onsite.
 - c. Clearly post manufacturers' recommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.
 - d. Keep ample materials and equipment necessary for spill cleanup in the material storage area onsite.
 - e. Clean up all spills immediately after discovery.
 - f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
 - g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the size. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the Engineer as soon as the Contractor has knowledge of the discharge. The Engineer will notify the National Response Center (NRC) at (800) 424-8802, the Clean Water Branch during regular business hours at (808) 586-4309, and the Hawaii State Hospital Operator at (808) 247-2191 and the Clean Water Branch (DOH-CWB) via email at cleanwaterbranch@doh.hawaii.gov during non-business hours immediately. The Contractor shall also provide to the Engineer, within 7 calendar days of knowledge of the release, a description of the release, the circumstances leading to the release, and the date of the release. The Engineer will provide this information to the DOH-CWB. The Engineer will provide information to the NRC if requested.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER POLLUTION &
EROSION CONTROL NOTES

TEMPORARY KAPAA BYPASS
ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M

Scale: None Date: December, 2023

SHEET No. EC-2 OF 5 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII | HAW. | 5600-02-23M | 2024 | 8 | 21 |

WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

E. PERMIT REQUIREMENTS:

1. The calculated land disturbance area for this project based on the construction plans is 34.43 acres not including Contractor Staging and Storage areas. If the total of the disturbed area and the Contractor Staging and Storing is one acre or greater, the Contractor shall obtain the NPDES Construction Activities Permit using HDOT's latest SWPPP template. See Hawaii Administrative Rules Chapter 11-55, Appendix C for the definition of land disturbance. The Contractor shall be responsible for obtaining the required NPDES Construction Activities Permit and complying with the requirements of HAR 11-55 including, but not limited to:
 - a. Deadlines for initiating and completing initial stabilization
 - b. Increased inspection frequency and installation of rain gage if applicable
 - c. Deadlines to initiate and complete repairs to BMPs
 - d. Reporting requirements and corrective action reports
2. Comply with all applicable State and Federal Permit conditions. Permits may include, but not limited to:
 - a. NPDES Permit for Construction Activities
 - b. NPDES Permit for Construction Dewatering
 - c. NPDES Permit for Hydrotesting Waters
 - d. Water Quality Certification
 - e. Stream Channel Alteration Permit
 - f. Section 404 Army Corps of Engineer Permit
4. Incorporate applicable Site Management BMP
 - a. SM-1 Construction BMP Training
 - b. SM-2 Material Storage and Handling
 - c. SM-3 Stockpile Management
 - d. SM-4 Concrete Waste and Wash Management
 - e. SM-5 Asphalt Cement Waste Management
 - f. SM-6 Solid Waste Management
 - g. SM-7 Sanitary Waste Management
 - h. SM-9 Hazardous Materials and Waste Management
 - i. SM-10 Spill Prevention and Control
 - j. SM-11 Vehicle and Equipment Cleaning
 - k. SM-12 Vehicle and Equipment Maintenance
 - l. SM-13 Vehicle and Equipment Refueling
 - m. SM-14 Scheduling
 - n. SM-15 Location of Potential Sources of Sediment
 - o. SM-16 Staging Area
 - p. SM-17 Preservation of Existing Vegetation
 - q. SM-19 Dust Control
 - r. SM-20 Paving Operations
5. Contain pollutants within the Construction Staging/Storage Area BMP with applicable Perimeter Sediment Controls and Site Management BMP. Include a Stabilized Construction Entrance/Exit (SC-11) for all areas which exit onto a paved street. Restrict vehicle access to these points.

F. SITE-SPECIFIC BMP REQUIREMENTS:

Each BMP below is referenced to the corresponding section of the current HDOT Construction Best Management Practices Field Manual and appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at <http://www.stormwaterhawaii.com/resources/contractors-and-consultants/> under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at <http://www.stormwaterhawaii.com/resources/contractors-and-consultants/stormwater-pollution-prevention-plan-swppp/> under Concrete Curing and Irrigation Water.

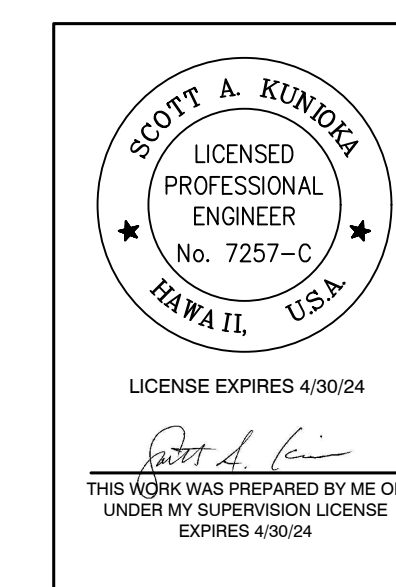
The requirements for Water Pollution, Dust, and Erosion Control submittals are included in Section 209 of the Hawaii Standard Specifications for Road and Bridge Construction dated 2005 and applicable Special Provisions. A list of pollutant sources and corresponding BMP used to mitigate the pollutants are included in Section 209 of the Special Provisions under Appendix A.

Follow the requirements below:

1. Protect all Drainage Inlets receiving runoff from disturbed areas (SC-1).
2. Contain on-site runoff using Perimeter Sediment Controls
 - a. SC-2 Vegetated Filter Strips and Buffers
 - b. SC-6 Compost Filter Berm/Sock
 - c. SC-7 Silt Fence or Filter Fabric Fence
 - d. SC-8 Sandbag Barrier
 - e. SC-9 Brush or Rock Filter
3. Control offsite runoff from entering construction area
 - a. EC-3 Run-On Diversion
 - b. EC-6 Level Spreader
 - c. EC-11 Geotextiles and Mats
 - d. EC-12 Seeding and Planting

6. Manage Concrete Waste including installing a Concrete Washout Area (SM-4) and properly disposing of Concrete Curing Water (California Stormwater BMP Handbook NS-12 Concrete Curing).
7. Remove saw cut slurry and hydrodemolition water from the site by vacuuming. Provide storm drain protection and/or perimeter sediment controls during saw cutting and hydrodemolition work.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

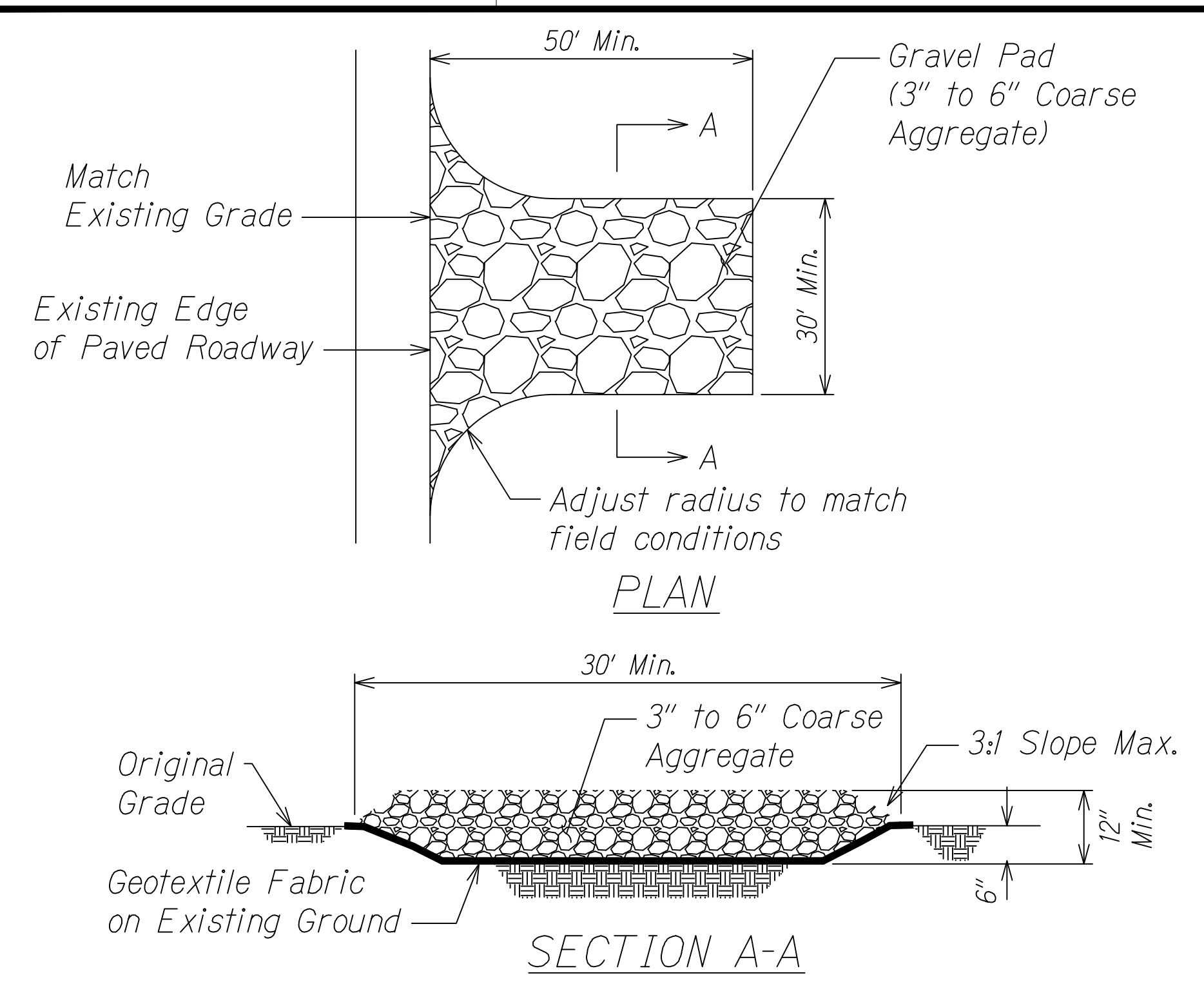
**WATER POLLUTION &
EROSION CONTROL NOTES**

TEMPORARY KAPAA BYPASS
ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M

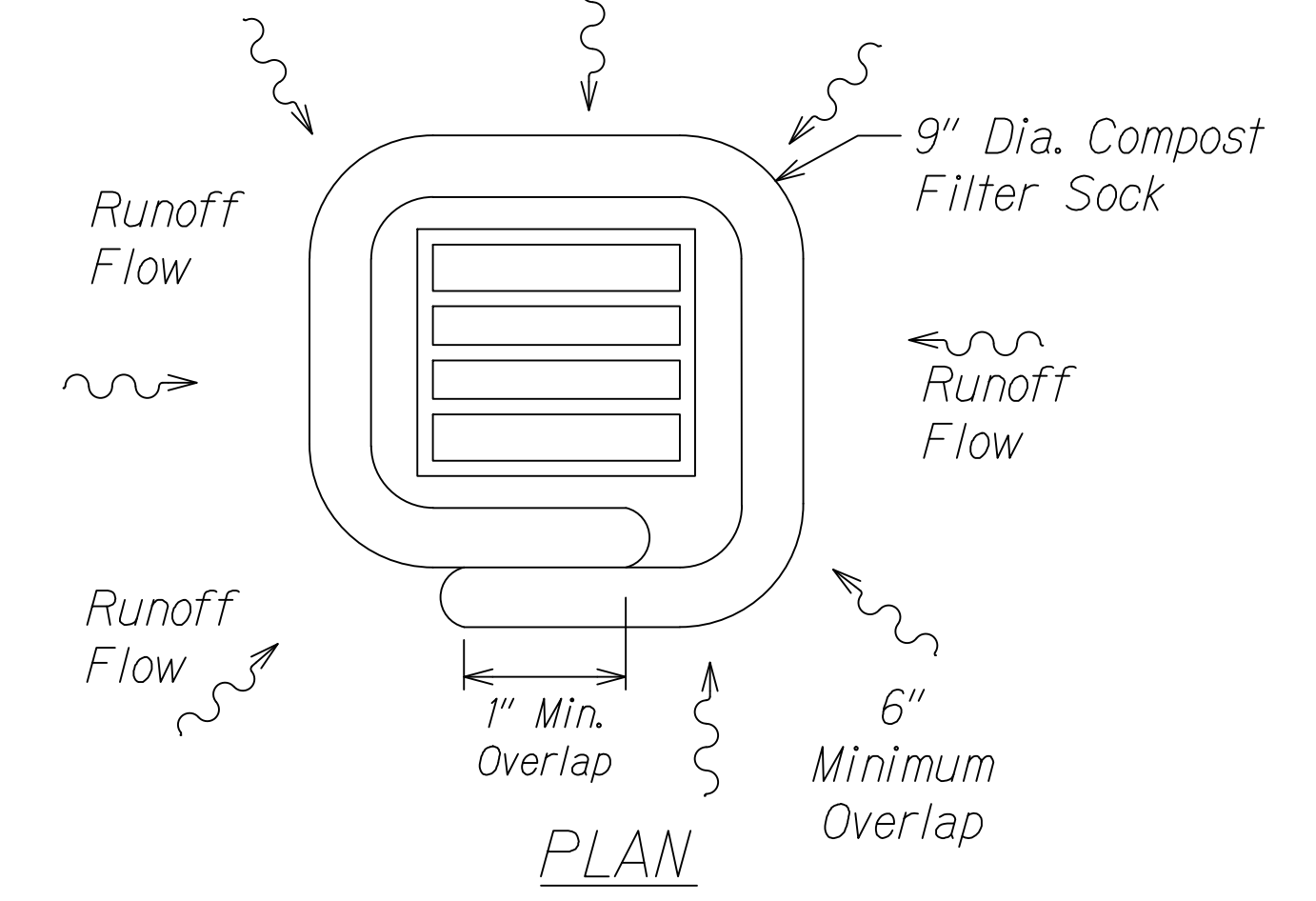
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SHEET No. EC-3 OF 5 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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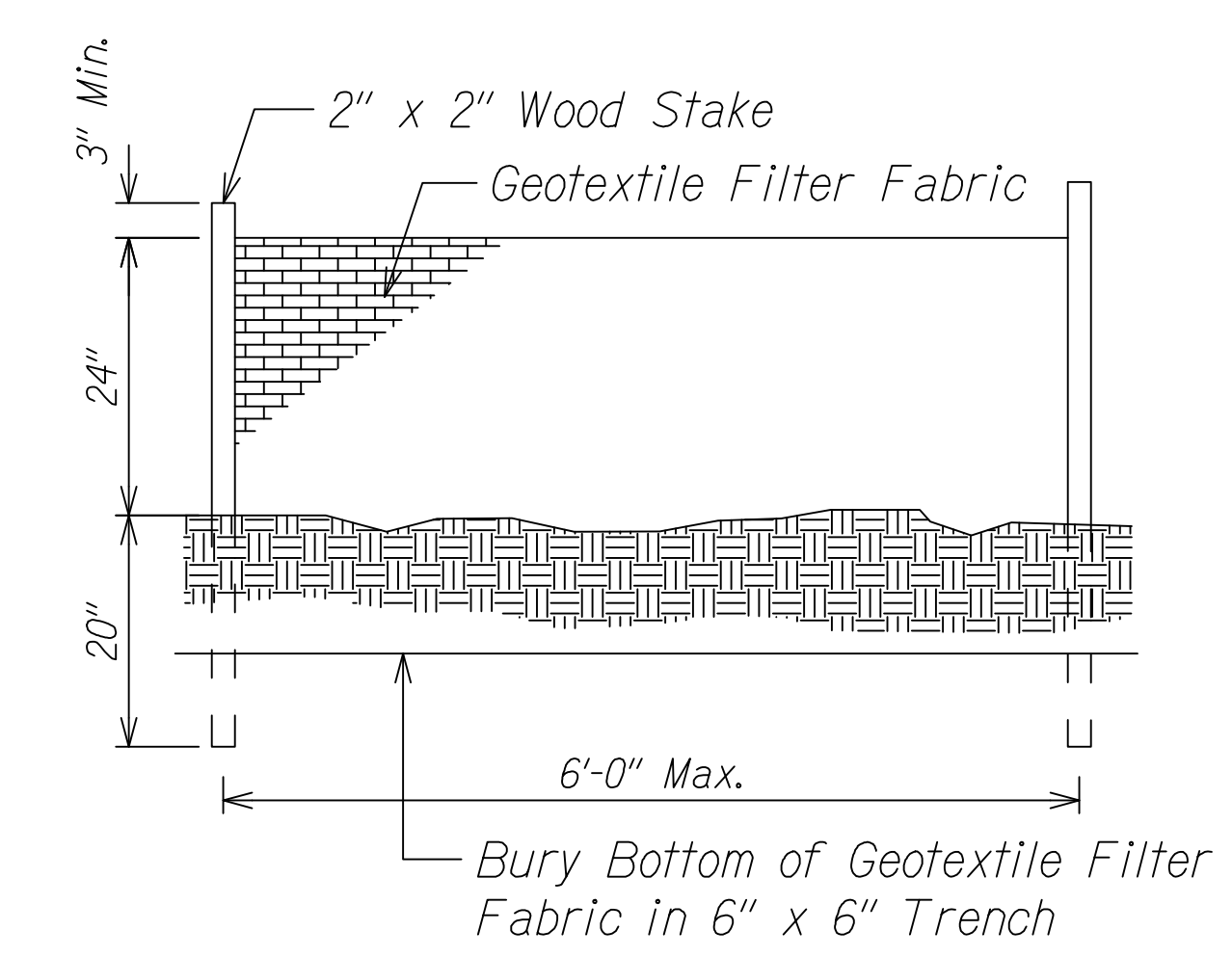


TEMPORARY CONSTRUCTION STABILIZATION
Not to Scale



COMPOST FILTER SOCK DRAIN INLET PROTECTION DETAIL
Not to Scale

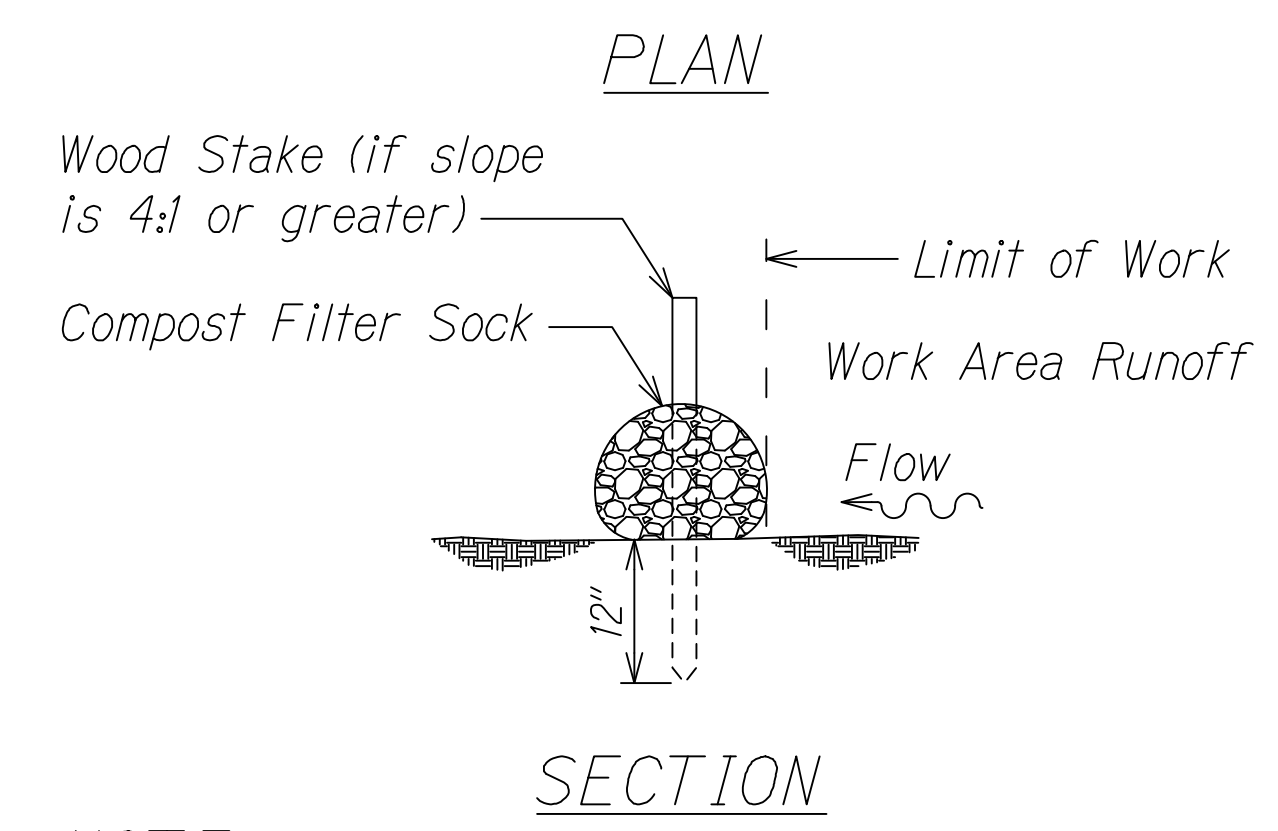
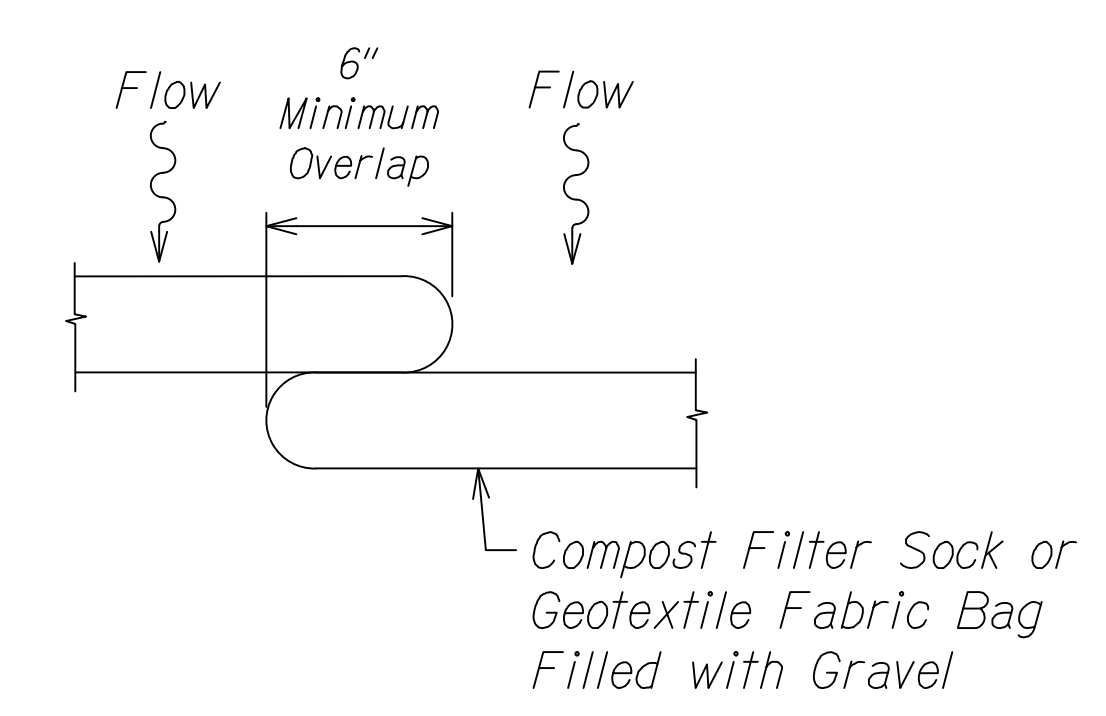
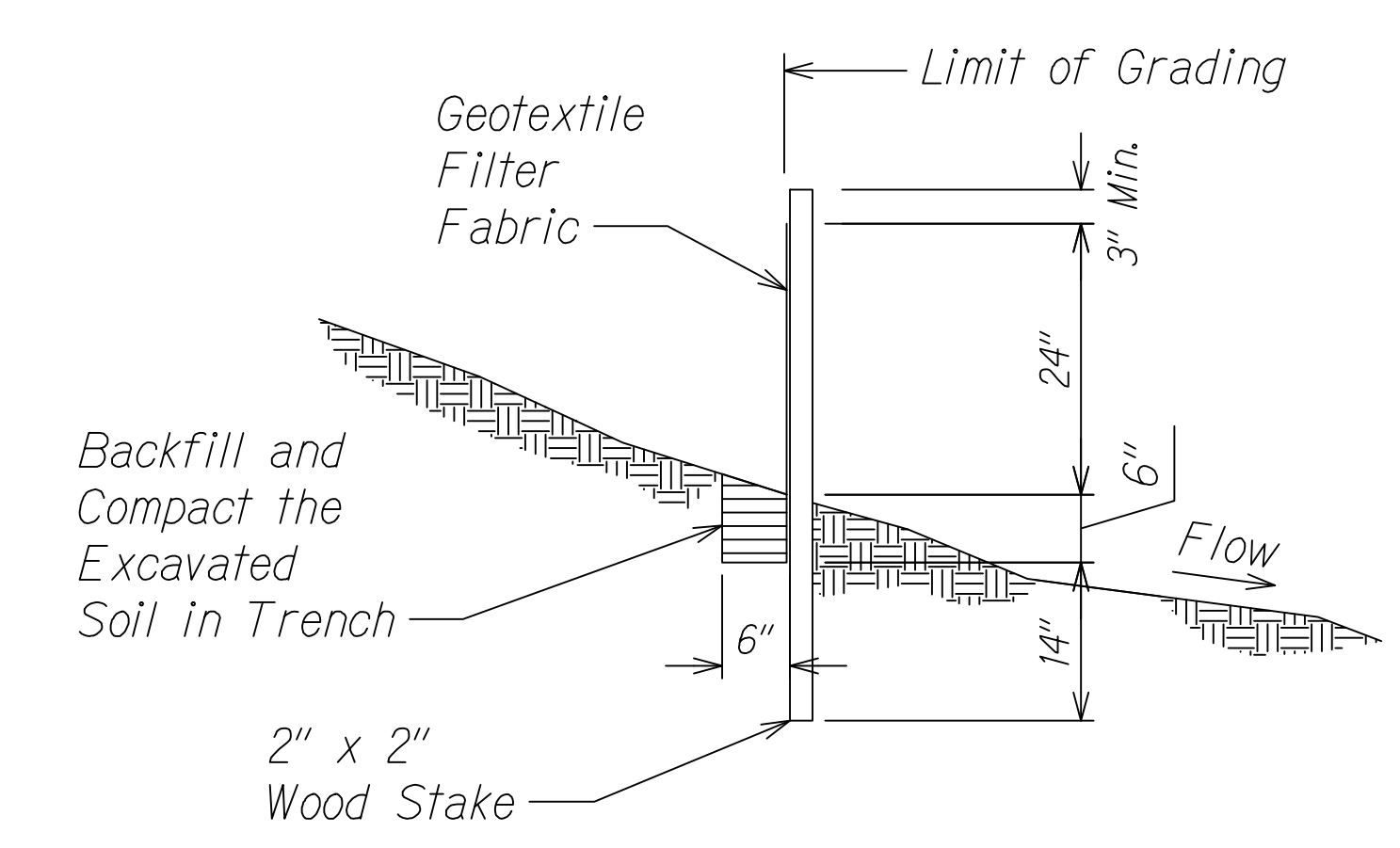
- COMPOST FILTER SOCK NOTES:**
1. Remove accumulated sediment when depth reaches 1/3 the barrier height.
 2. Sock material and compost shall be removed at the completion of construction (or a phase of construction) and shall be disposed of properly.
 3. No staking is required for slopes < 4:1.
 4. Compost shall not contain biosolids and should be consistent with United States Environmental Protection Agency guidelines.



SILTS FENCE DETAIL
Not to Scale

SILTS FENCE NOTES:

1. The filter fabric shall be a minimum of 36 inches wide.
2. If silt fence is obtained from manufacturer as a package (i.e. fabric attached to post) the manufacturer's installation instructions shall be adhered to.



NOTE:

1. Sediment Filter shall be a Compost Filter Sock.
2. Wood stakes shall be driven through the Sediment Filter at a maximum spacing of 4'-0\"/>

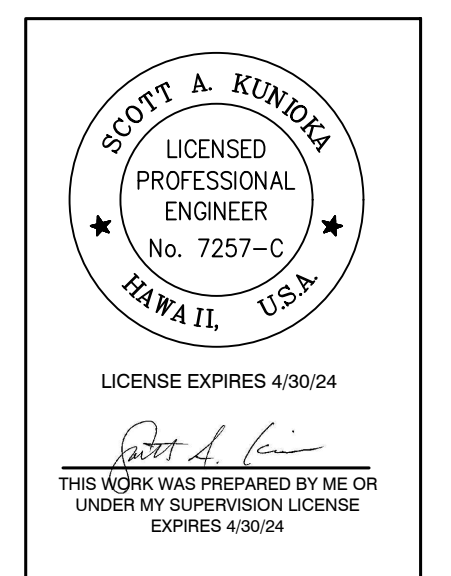
SEDIMENT FILTER DETAIL
Not to Scale

STAGING AREA NOTES:

1. Place and tack down geotextile fabric over sheet plastic at staging area.
2. Place Compost Filter Sock or silt fence along low end of staging area perimeter to filter staging area runoff.
3. Place drip pans under all vehicles and equipment.
4. Provide spill kits at all staging areas.
5. Secure and provide secondary containment for portable toilets.
6. Contractor to install temporary construction stabilization entrances for staging areas. See details on this Sheet.

STORAGE AREA NOTES:

1. Place Compost Filter Sock along storage area perimeter to filter runoff.
2. Contractor to install temporary construction stabilization entrances for storage areas. See details on this Sheet.



STATE OF HAWAII
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**WATER POLLUTION &
EROSION CONTROL DETAILS**

**TEMPORARY KAPAA BYPASS
ROAD REPAIR**
Vicinity of Olohena Road
Project No. 5600-02-23M

Scale: Not to Scale Date: December, 2023

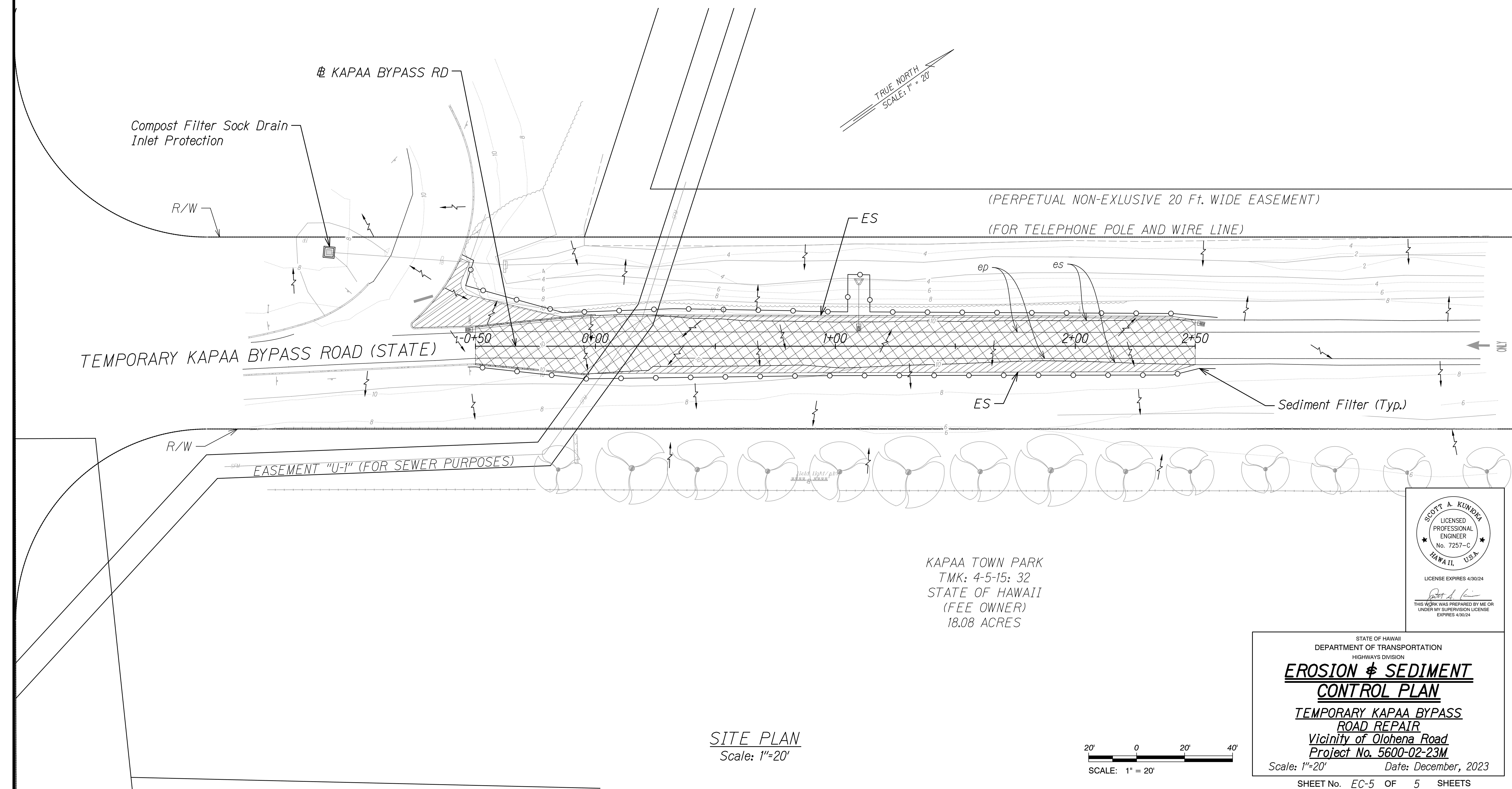
SHEET No. EC-4 OF 5 SHEETS

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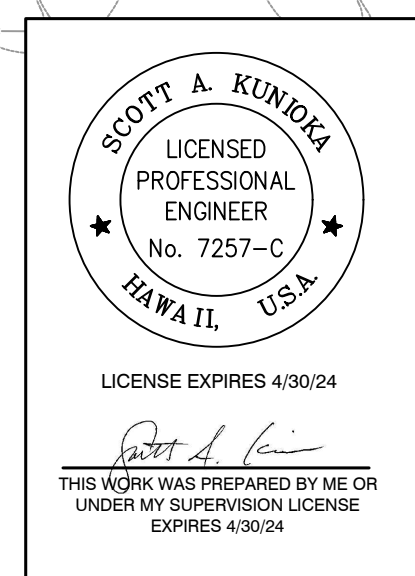
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|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII | HAW. | 5600-02-23M | 2024 | 10 | 21 |

NOTE:
Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMP requirements and do not constitute an acceptable and/or complete Sediment and Erosion Control Plan. The Contractor shall incorporate additional BMPs based on their means and methods considering site conditions and construction sequence in accordance with the Contract Documents including applicable permit document requirements. Cost shall be included in Pay Item 209.0100, Installation, Maintenance, Monitoring, and Removal of BMP.

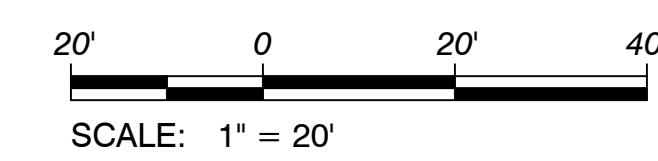
- LEGEND:**
- Sediment Filter, See Detail on Sht. EC-4
 - Compost Filter Sock Drain Inlet Protection, See Detail on Sht. EC-4
 - Existing Condition Flow Arrow



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SITE PLAN
Scale: 1"=20'



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HIGHWAYS DIVISION

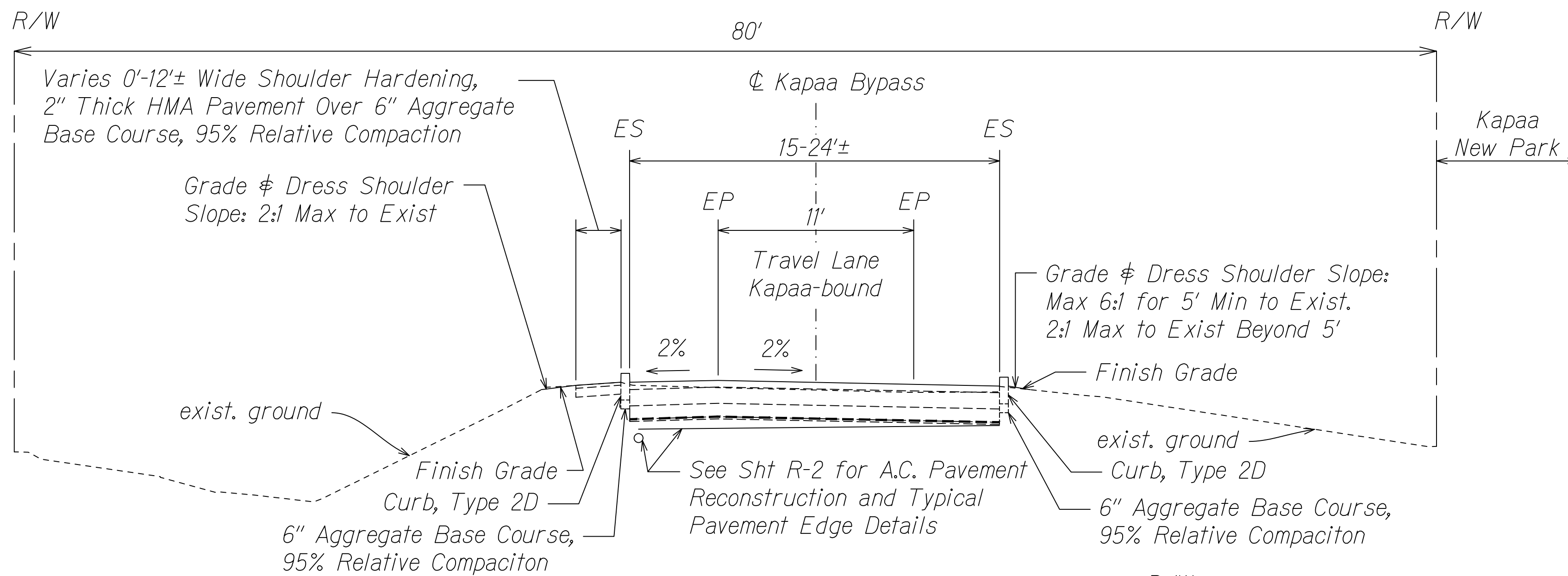
EROSION & SEDIMENT CONTROL PLAN

TEMPORARY KAPAA BYPASS ROAD REPAIR
Vicinity of Oloheua Road
Project No. 5600-02-23M

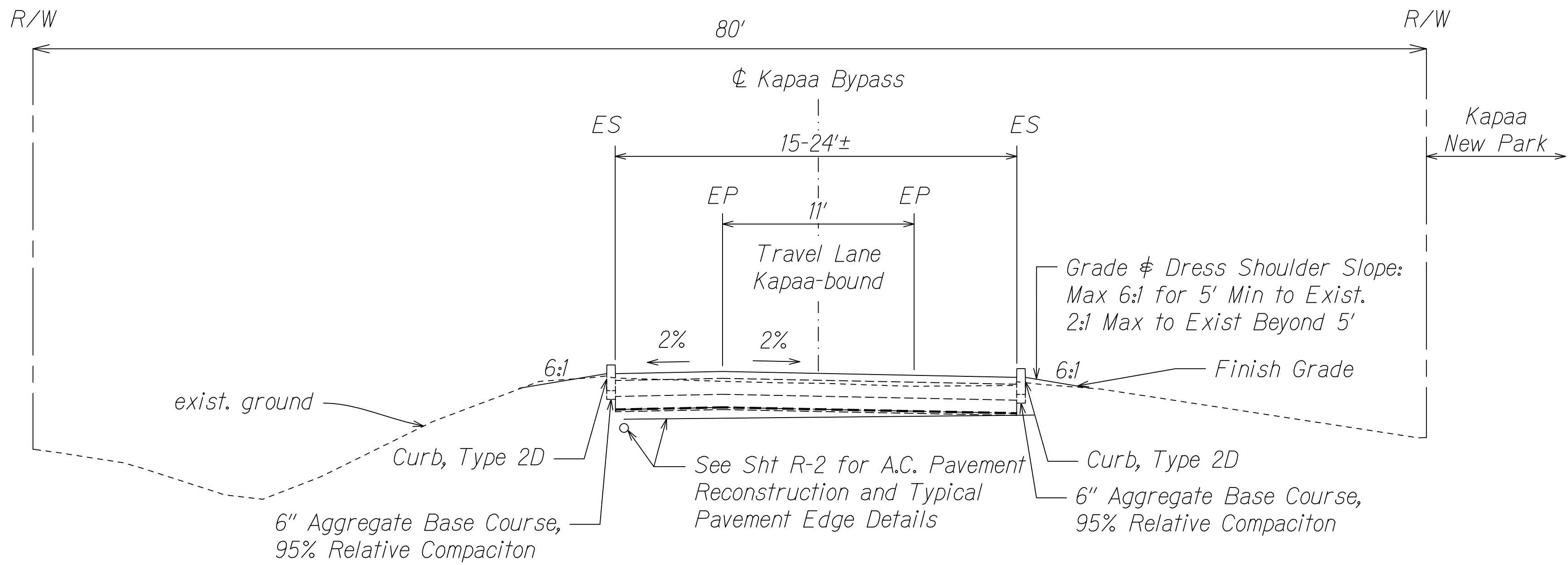
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SHEET No. EC-5 OF 5 SHEETS

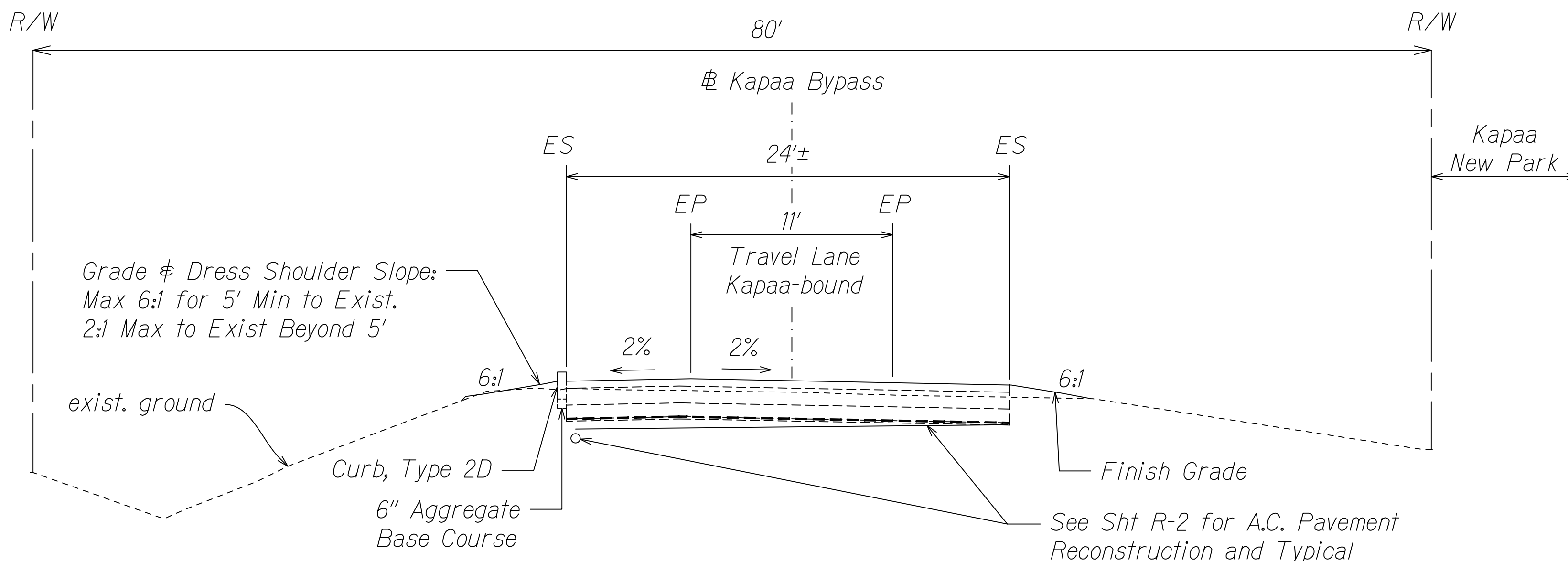
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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KAPAA BYPASS SECTION
 STA. -0+50 TO STA. -0+13.82
 Scale: 1"=5'



KAPAA BYPASS SECTION
 STA. -0+13.82 TO STA. -0+02.73
 Scale: 1"=5'



KAPAA BYPASS SECTION
 STA. -0+02.73 TO STA. 0+00
 Scale: 1"=5'

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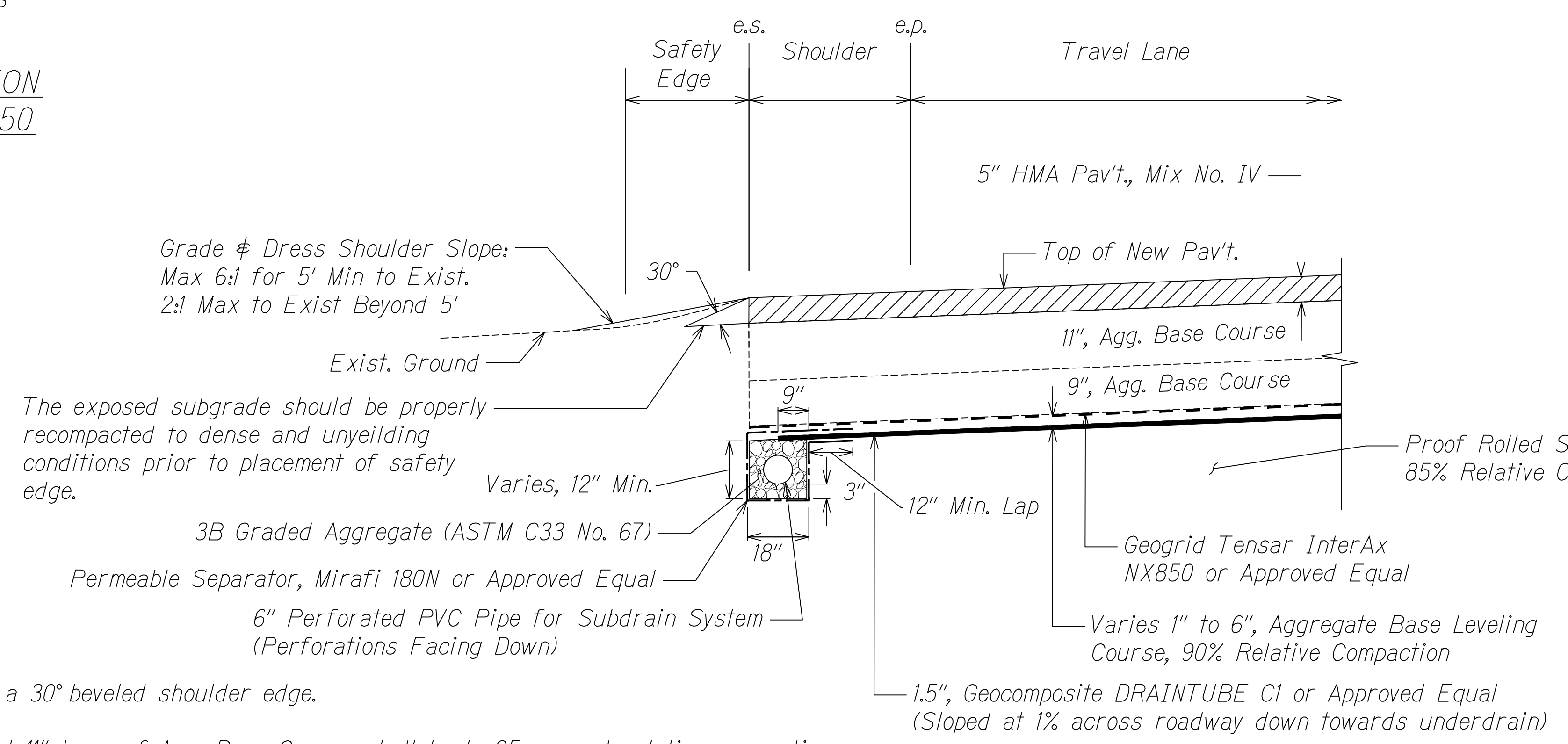
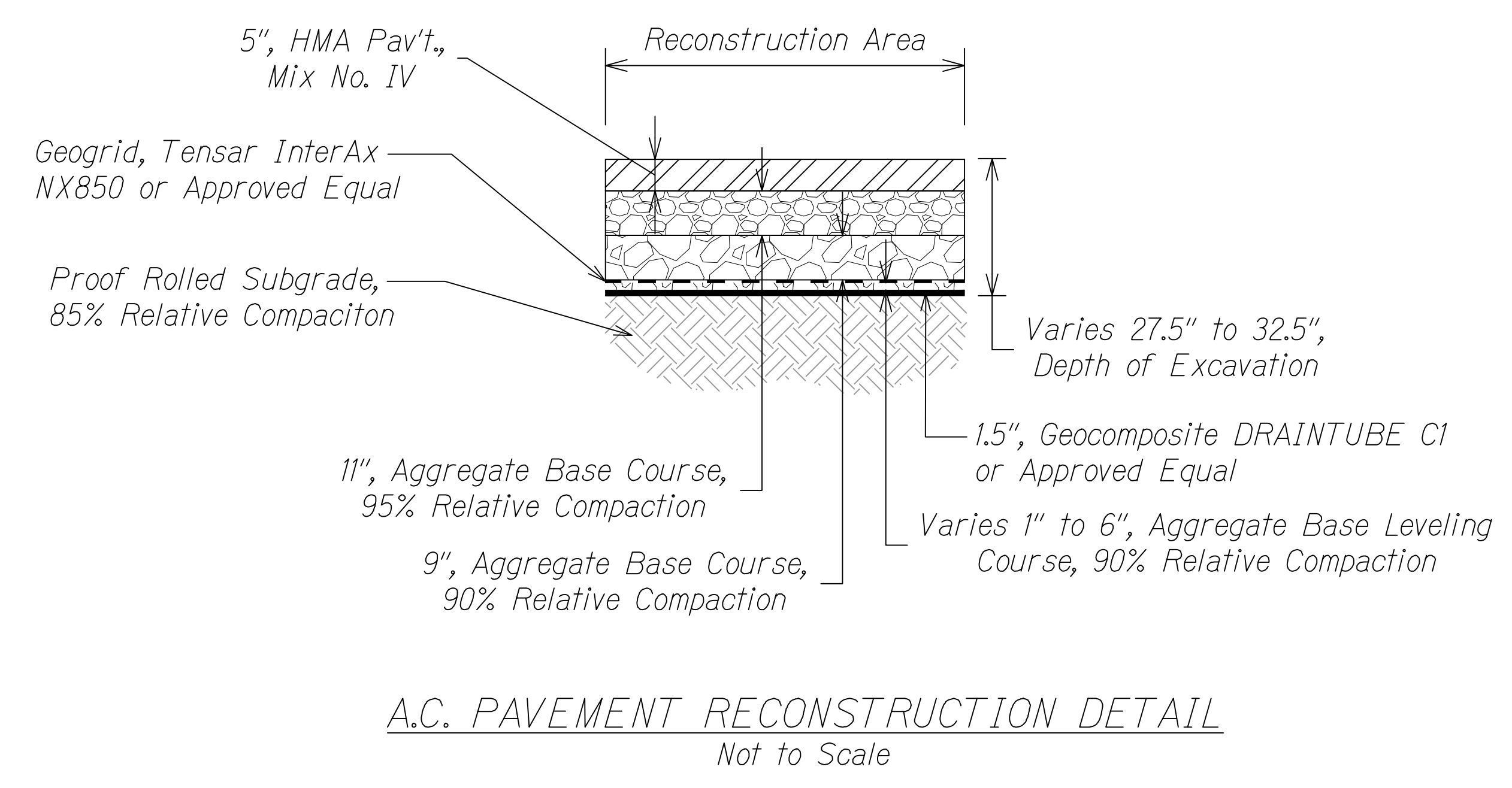
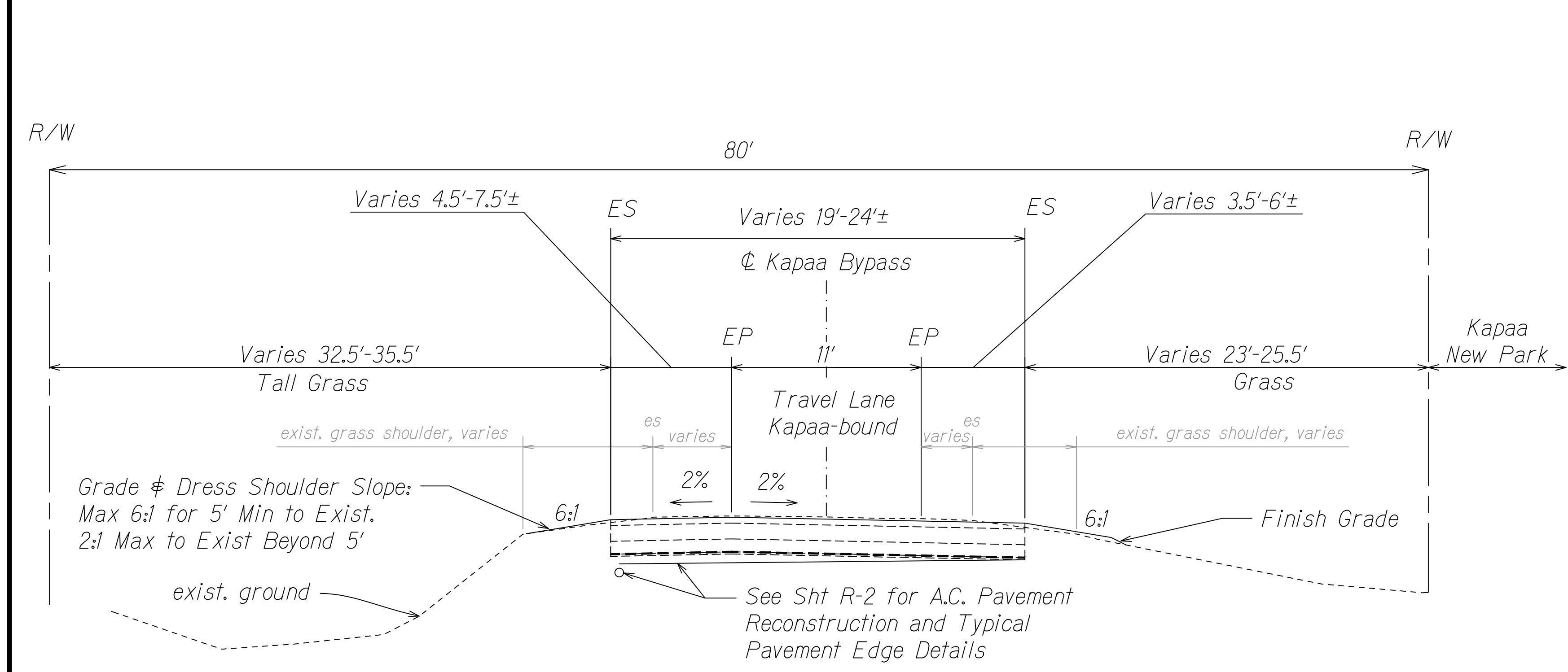
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TYPICAL SECTIONS

TEMPORARY KAPAA BYPASS ROAD REPAIR
 Vicinity of Oloheua Road
 Project No. 5600-02-23M
 Scale: 1"=5' Date: December, 2023

SHEET No. R-1 OF 6 SHEETS

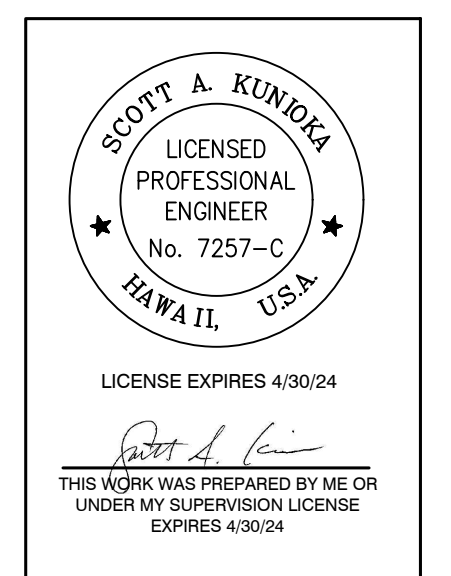
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII | HAW. | 5600-02-23M | 2024 | 12 | 21 |



Notes:

- Contractor shall mount a device directly on the paver screed extension to provide a 30° beveled shoulder edge.
- First 9" layer of Agg. Base Course shall be to 90 percent relative compaction. Last 11" layer of Agg. Base Course shall be to 95 percent relative compaction.
- A layer of Agg. Base Leveling Course, varies 1" to 6", (90 percent relative compaction) shall be installed between the Geocomposite and Geogrid system.
- Geocomposite DRAINTUBE C1, or approved equal, shall be installed on recompacted subgrade (85 percent relative compaction) and with a min. slope of 1.0 percent down towards the perforated subdrain pipe. Subdrain 6" perforated PVC pipe shall be installed with a min. slope of 1.0 percent. Pipe perforations shall be installed facing down.
- Construct safety edge at all edges of a.c. pavement. This work shall be considered incidental to Item No. 401.0400 - HMA Pavement Mix No. IV.

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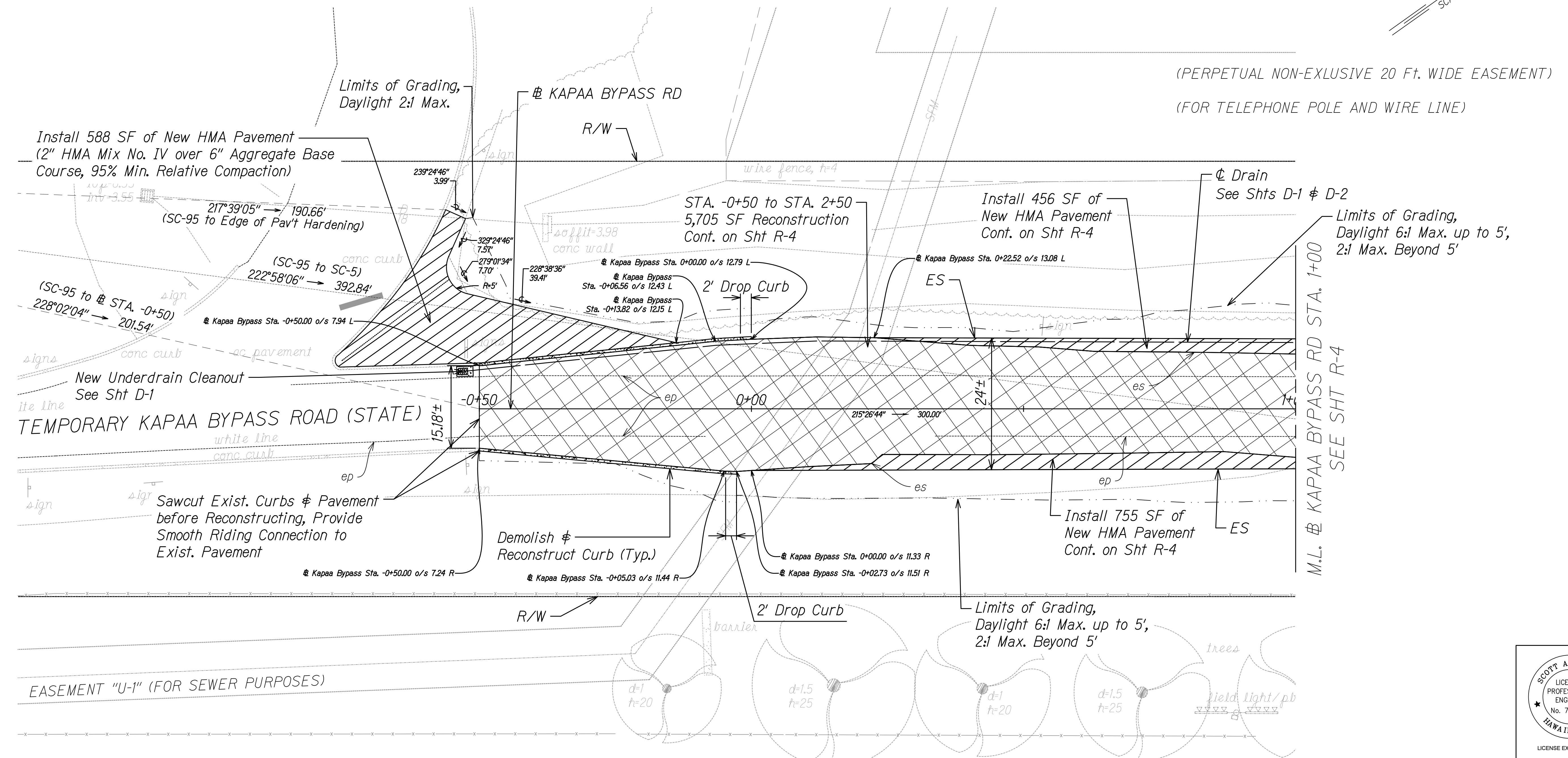
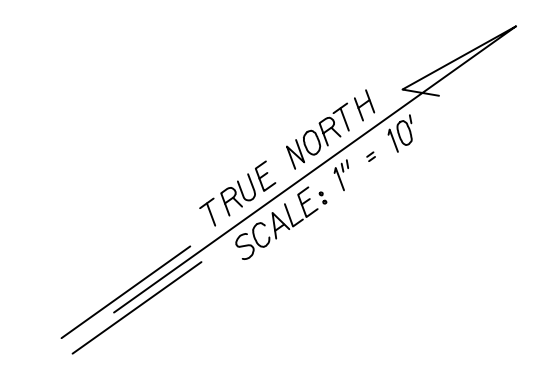


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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

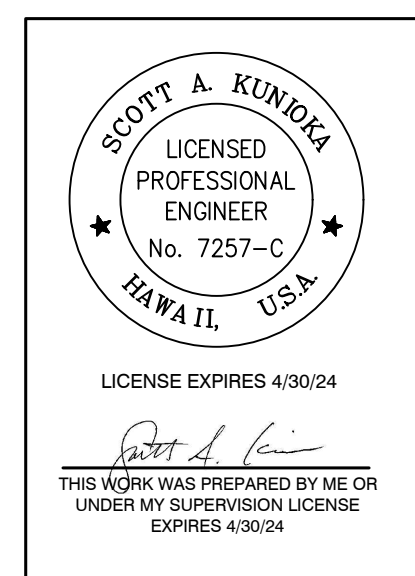
TYPICAL SECTIONS

TEMPORARY KAPAA BYPASS ROAD REPAIR
Vicinity of Oloheua Road
Project No. 5600-02-23M
Scale: As Noted Date: December, 2023
SHEET No. R-2 OF 6 SHEETS

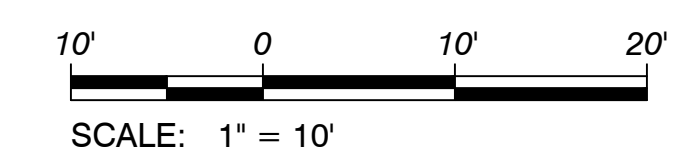
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| ORIGINAL PLAN | |
| NOTE BOOK | |



ROADWAY PLAN
STA. -0+50 TO 1+00
 Scale: 1"=10'



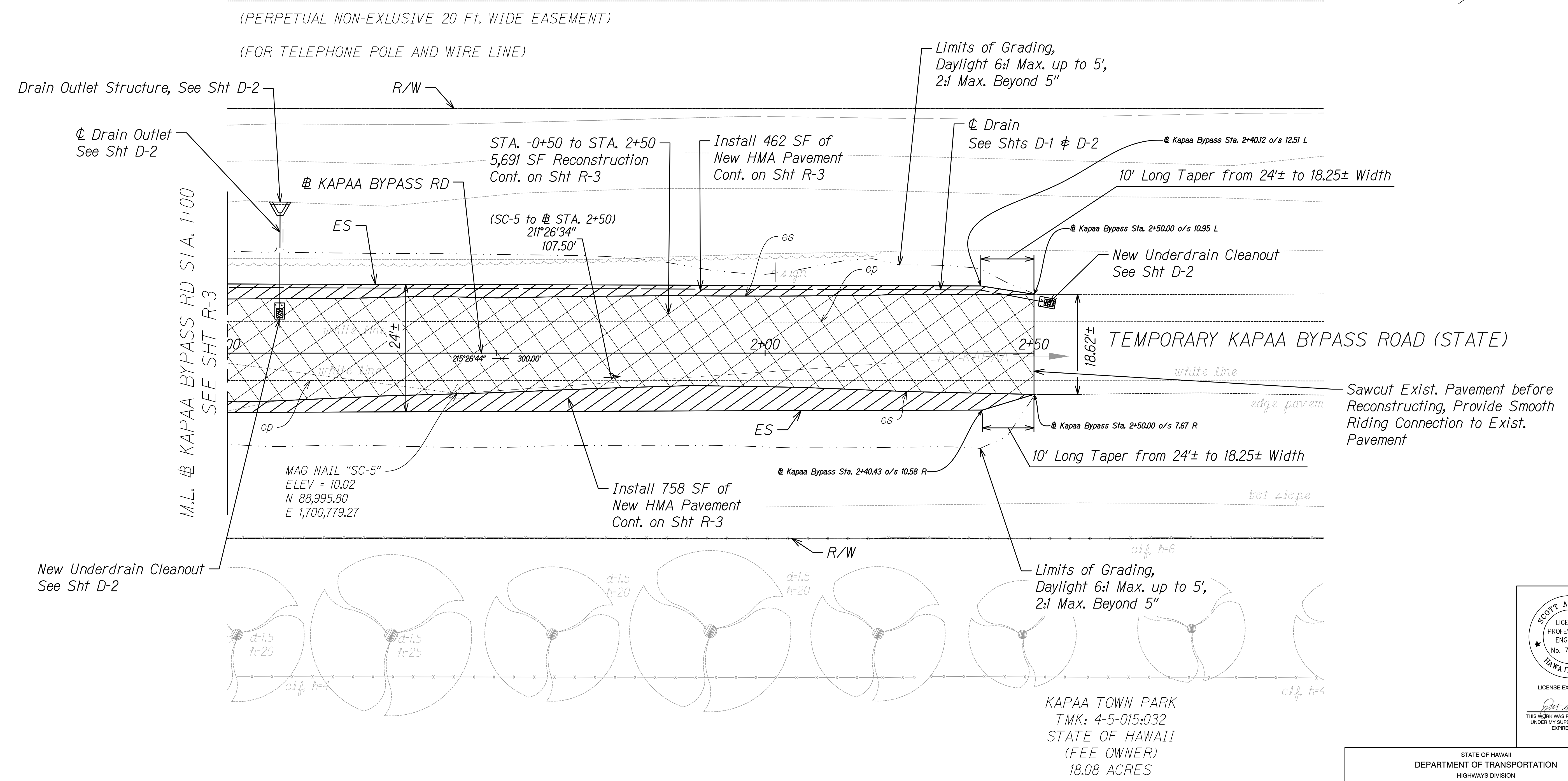
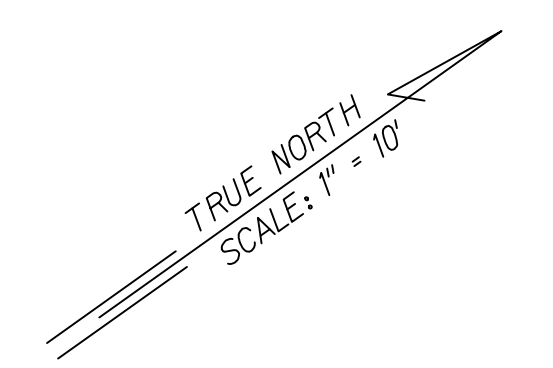
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN

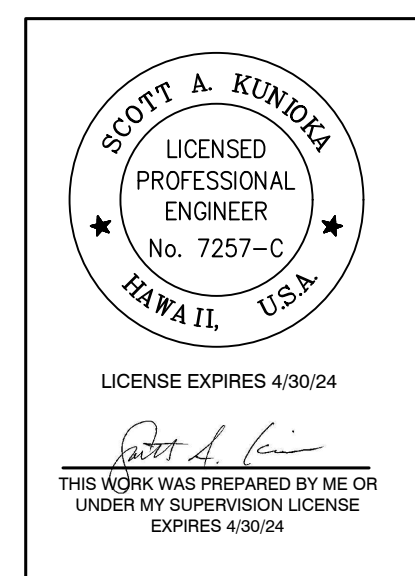
TEMPORARY KAPAA BYPASS ROAD REPAIR
 Vicinity of Oloheua Road
 Project No. 5600-02-23M
 Scale: 1"=10' Date: December, 2023

SHEET No. R-3 OF 6 SHEETS

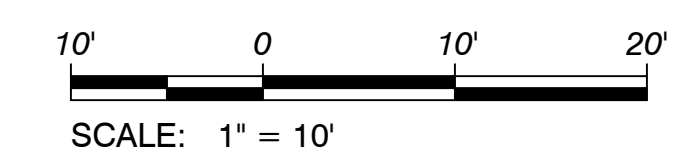
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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ROADWAY PLAN
STA. 1+00 TO 2+50
 Scale: 1"=10'



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

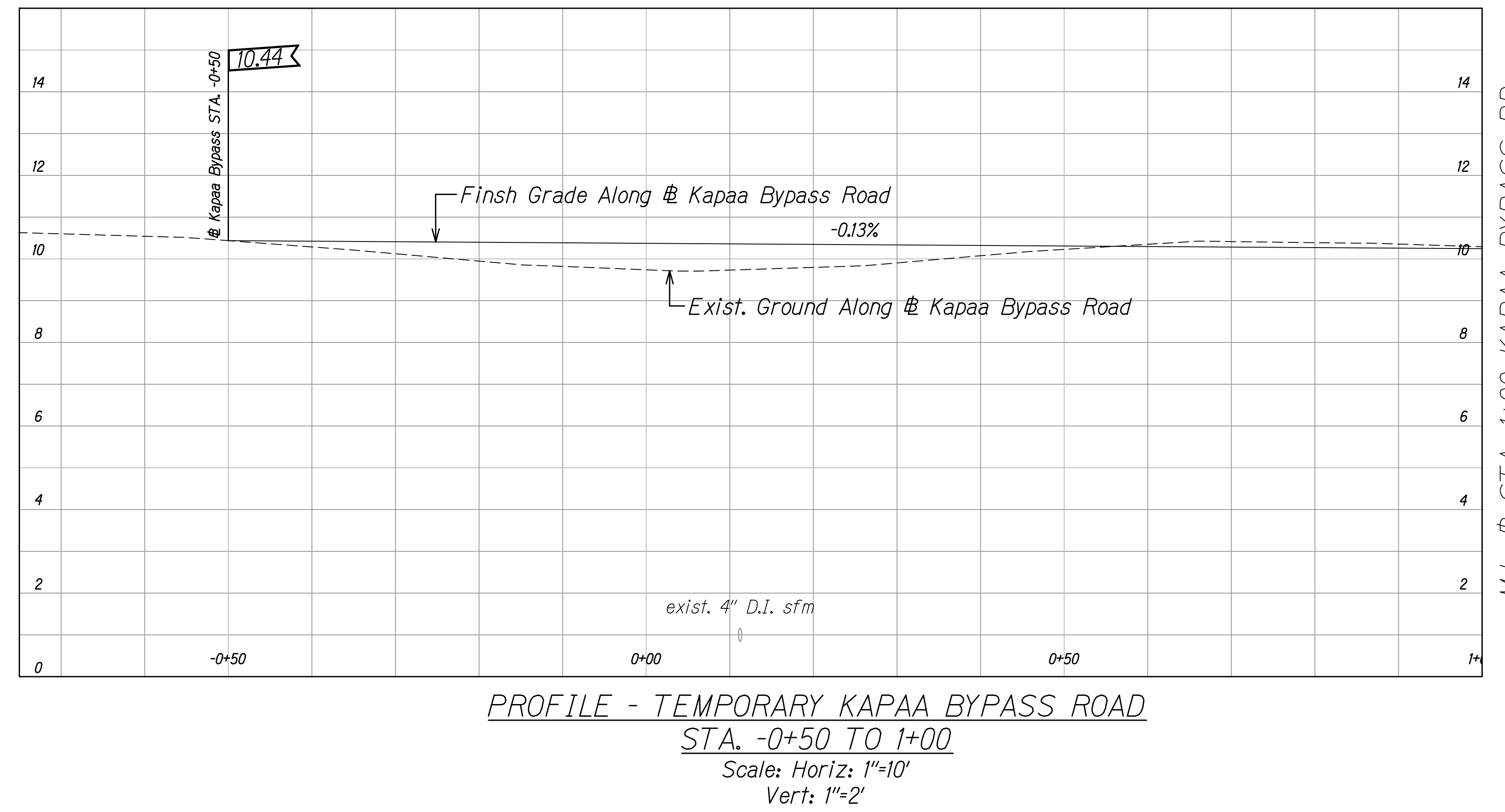
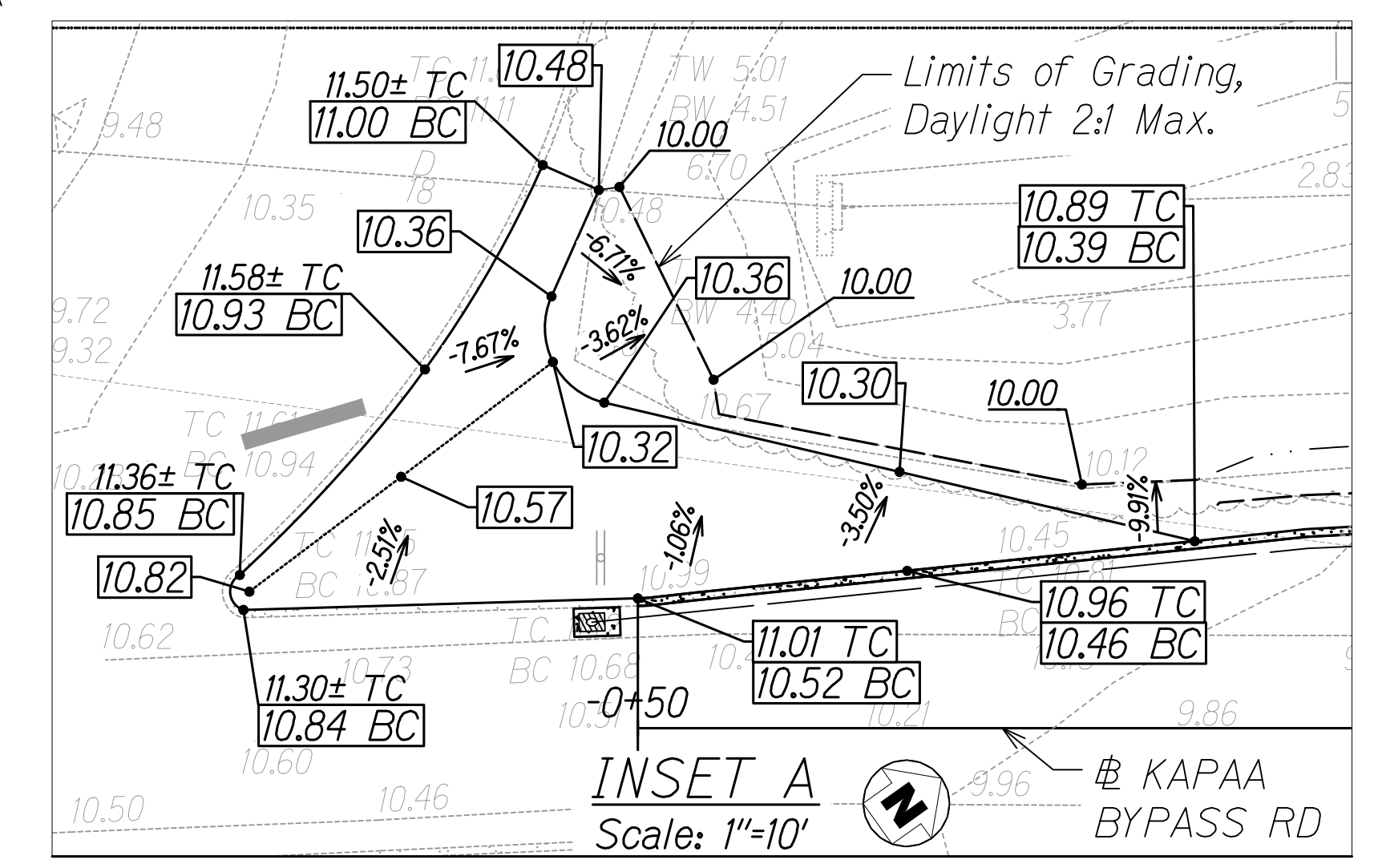
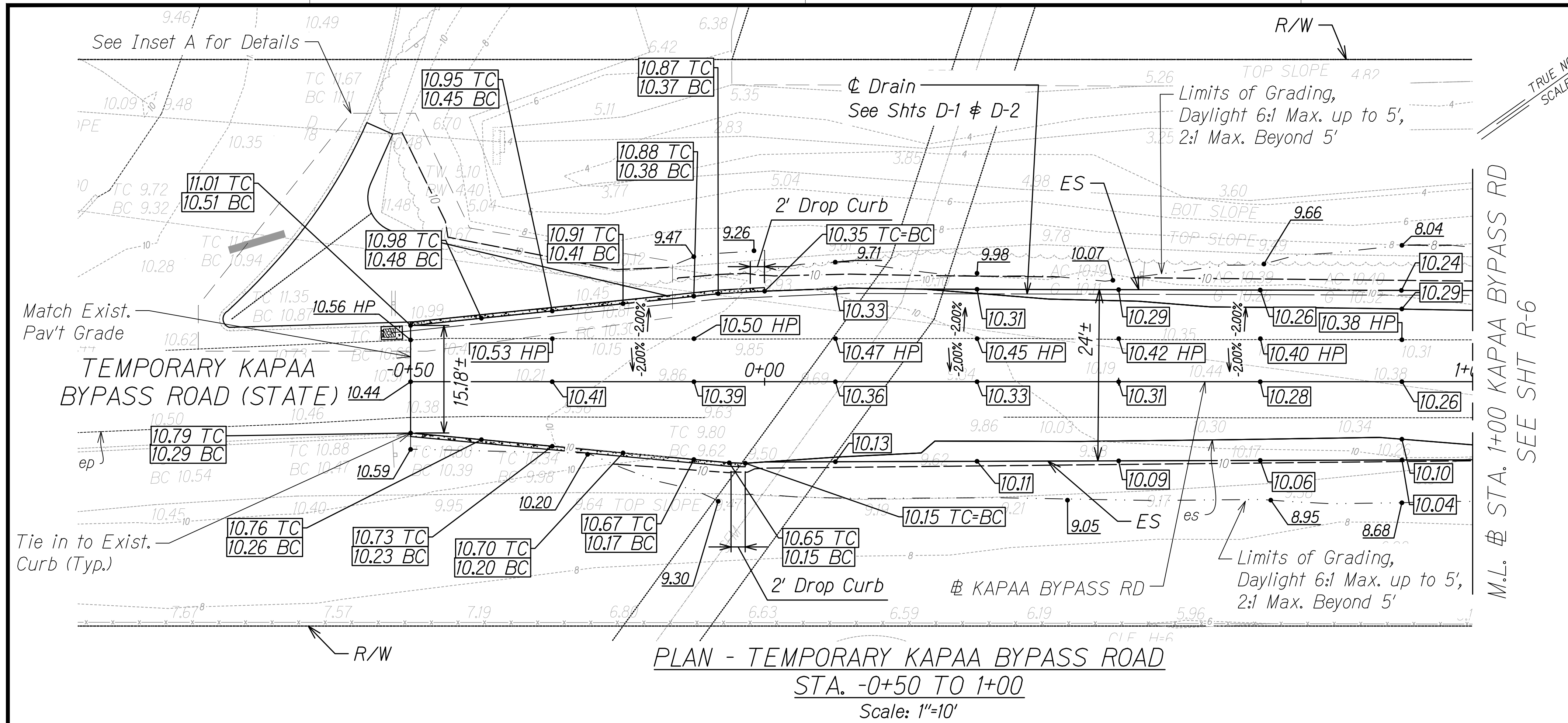
ROADWAY PLAN

TEMPORARY KAPAA BYPASS ROAD REPAIR
 Vicinity of Oloheua Road
 Project No. 5600-02-23M

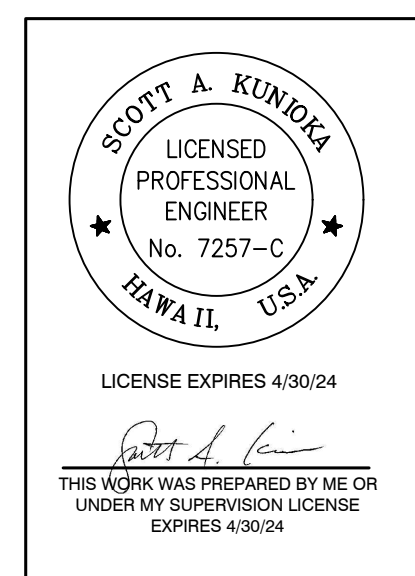
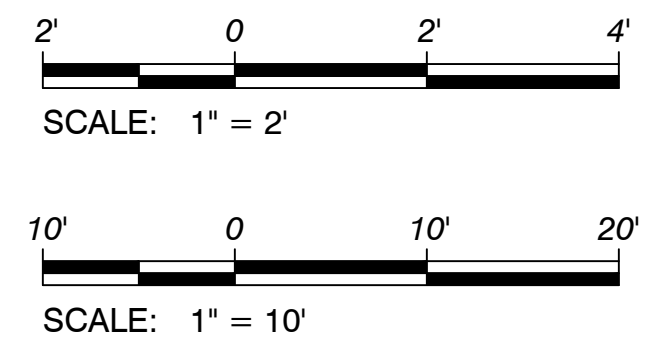
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| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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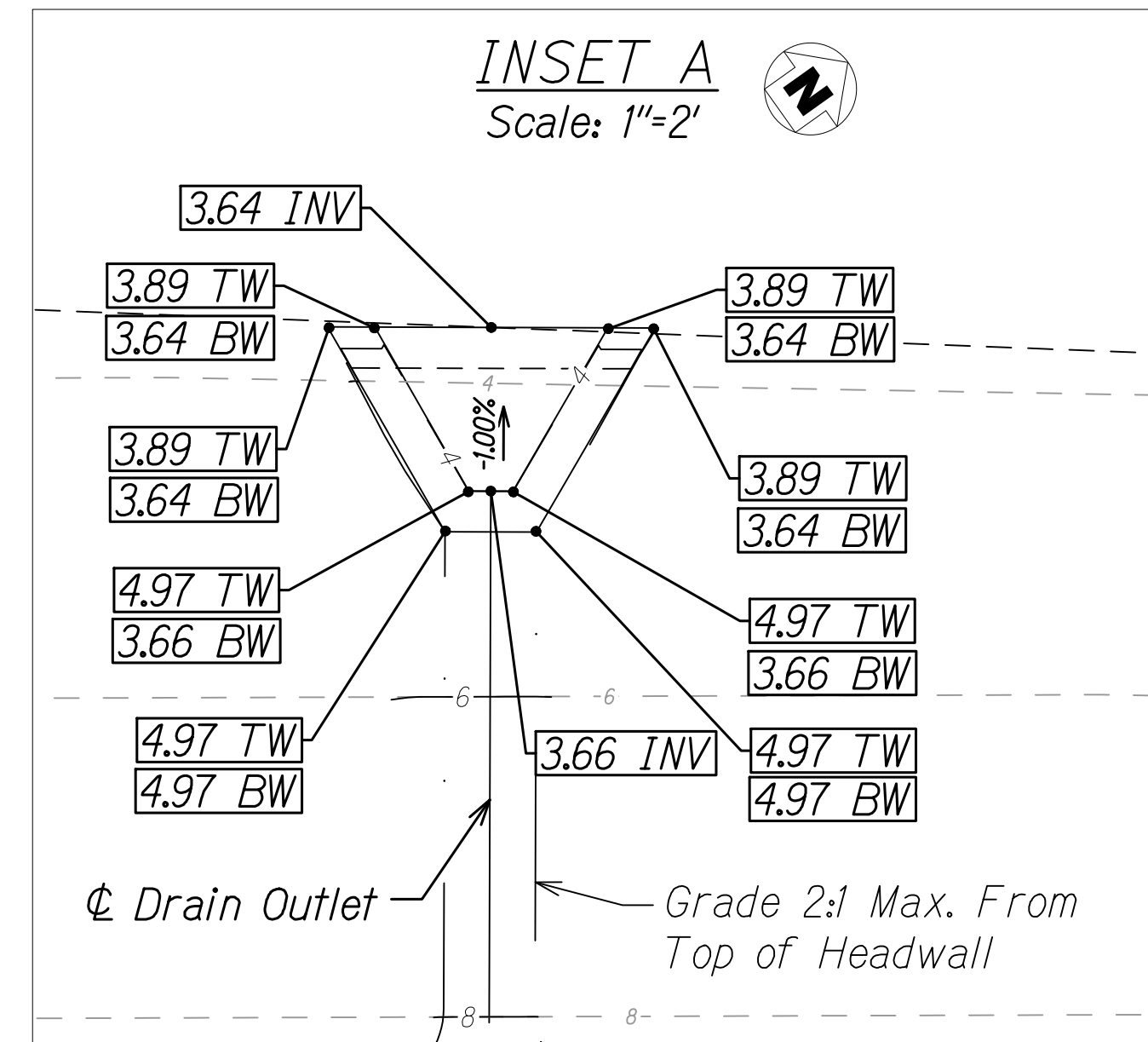
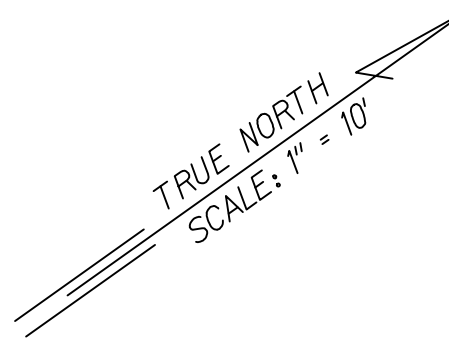
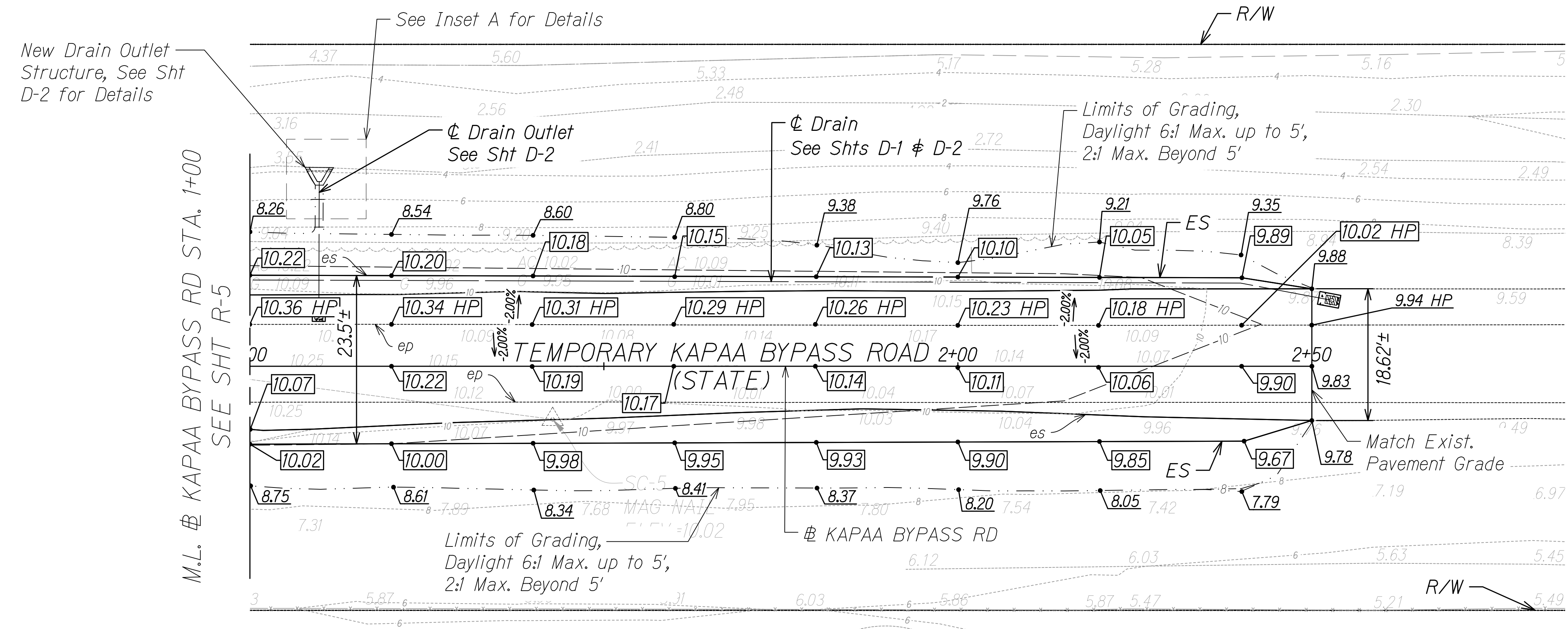
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING PLAN & PROFILE

TEMPORARY KAPAA BYPASS ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M
Scale: As Noted Date: December, 2023

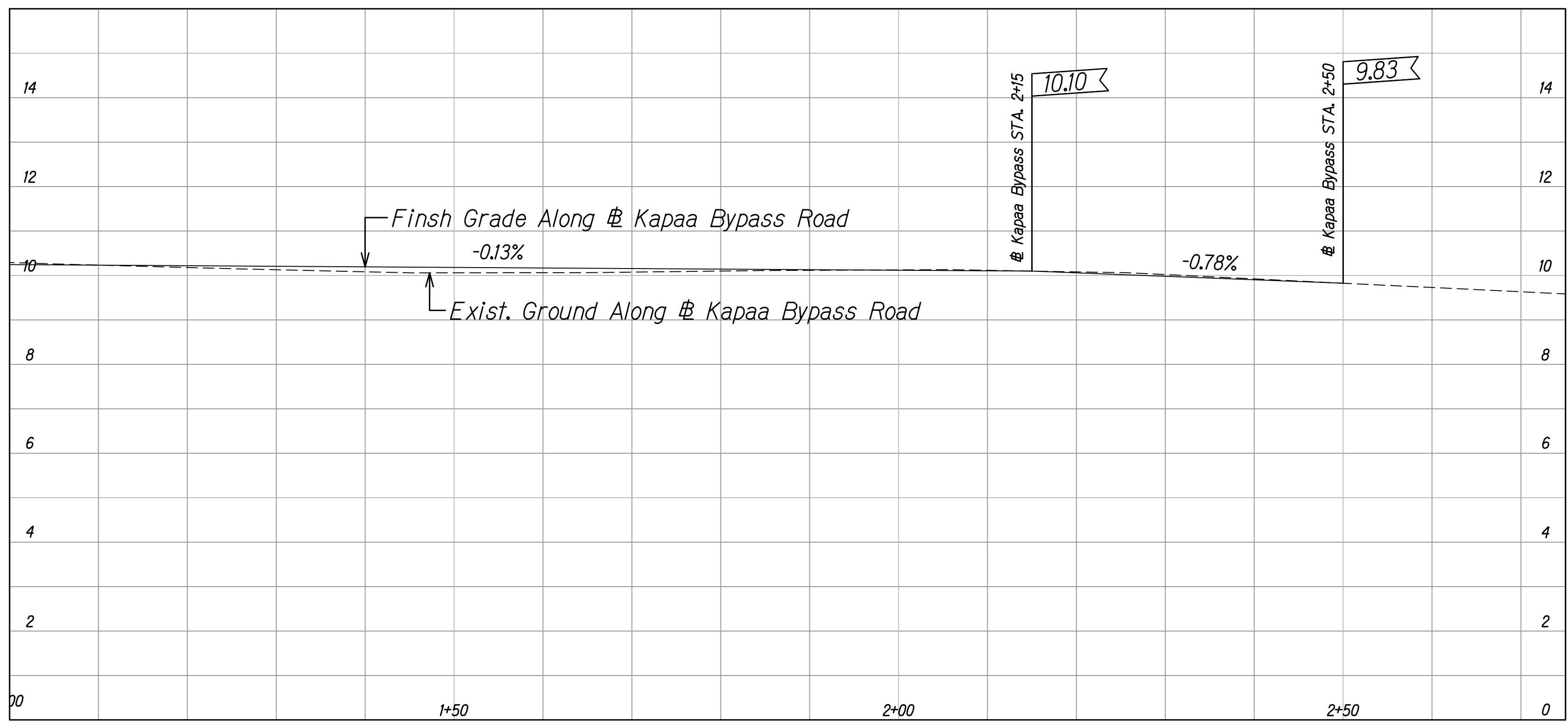
SHEET No. R-5 OF 6 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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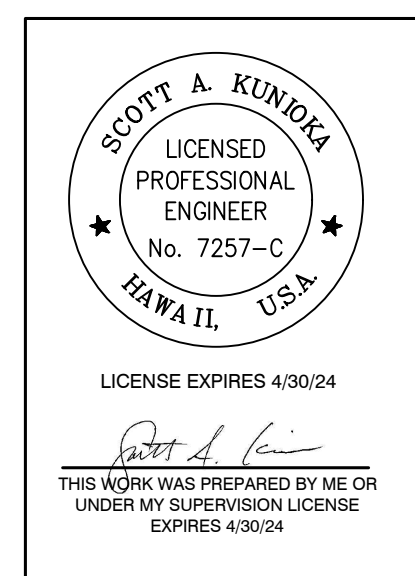
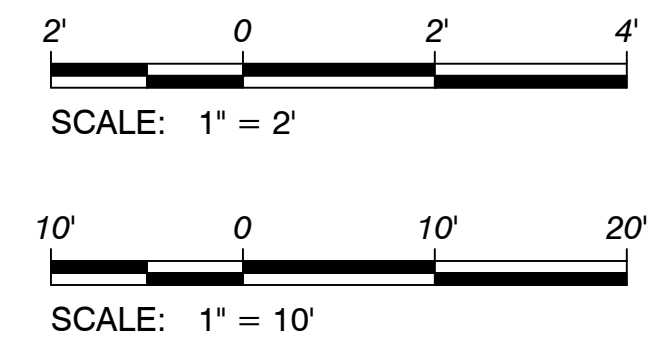
PLAN - TEMPORARY KAPAA BYPASS ROAD
STA. 1+00 TO 2+50
Scale: 1"=10'

M.L. # KAPAA BYPASS RD STA. 1+00
SEE SHT R-5



PROFILE - TEMPORARY KAPAA BYPASS ROAD
STA. 1+00 TO 2+50
Scale: Horiz: 1"=10'
Vert: 1"=2'

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING PLAN & PROFILE

TEMPORARY KAPAA BYPASS ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M
Scale: As Noted Date: December, 2023

SHEET No. R-6 OF 6 SHEETS

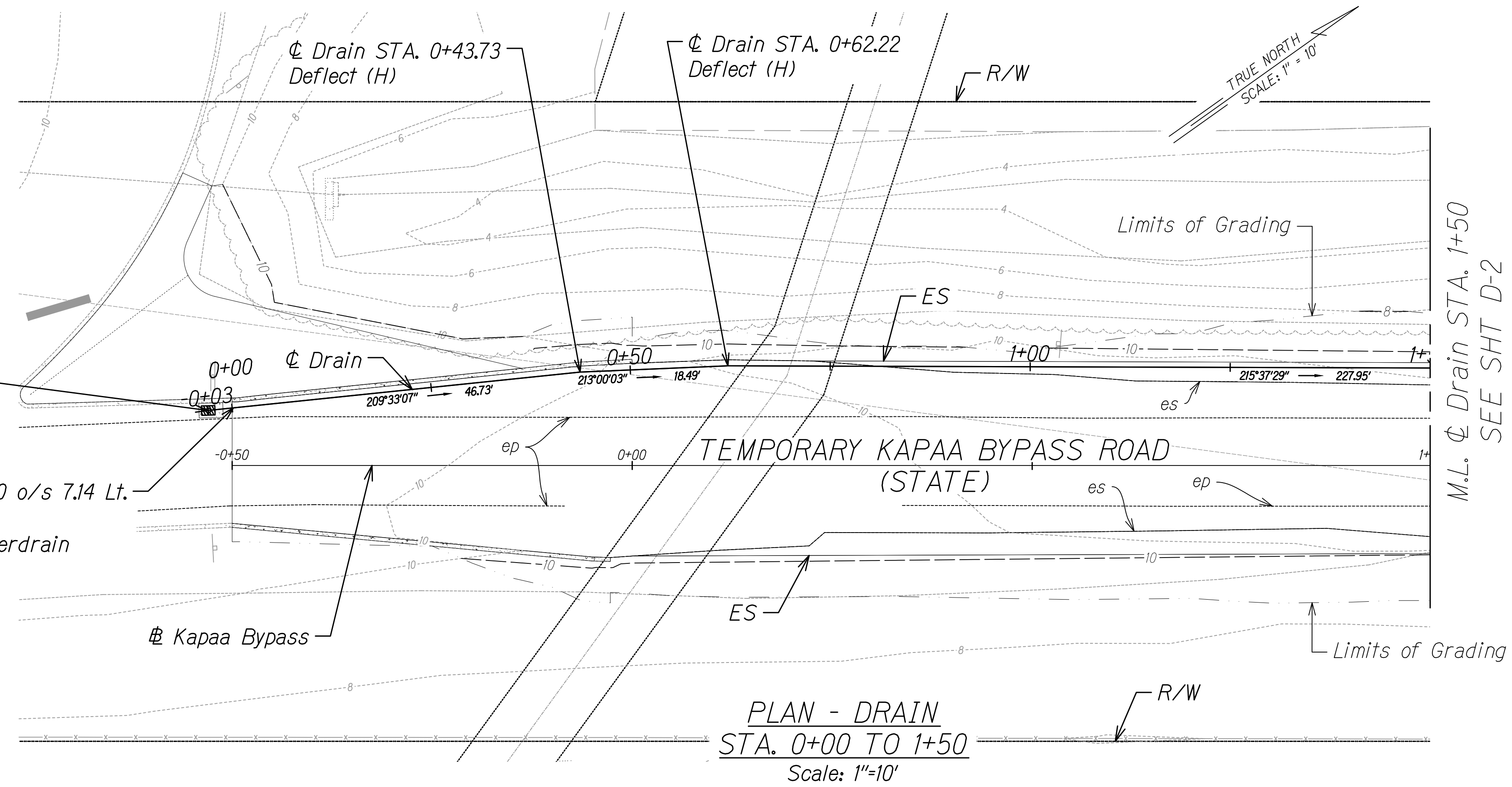
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| HAWAII | HAW. | 5600-02-23M | 2024 | 17 | 21 |

Notes:

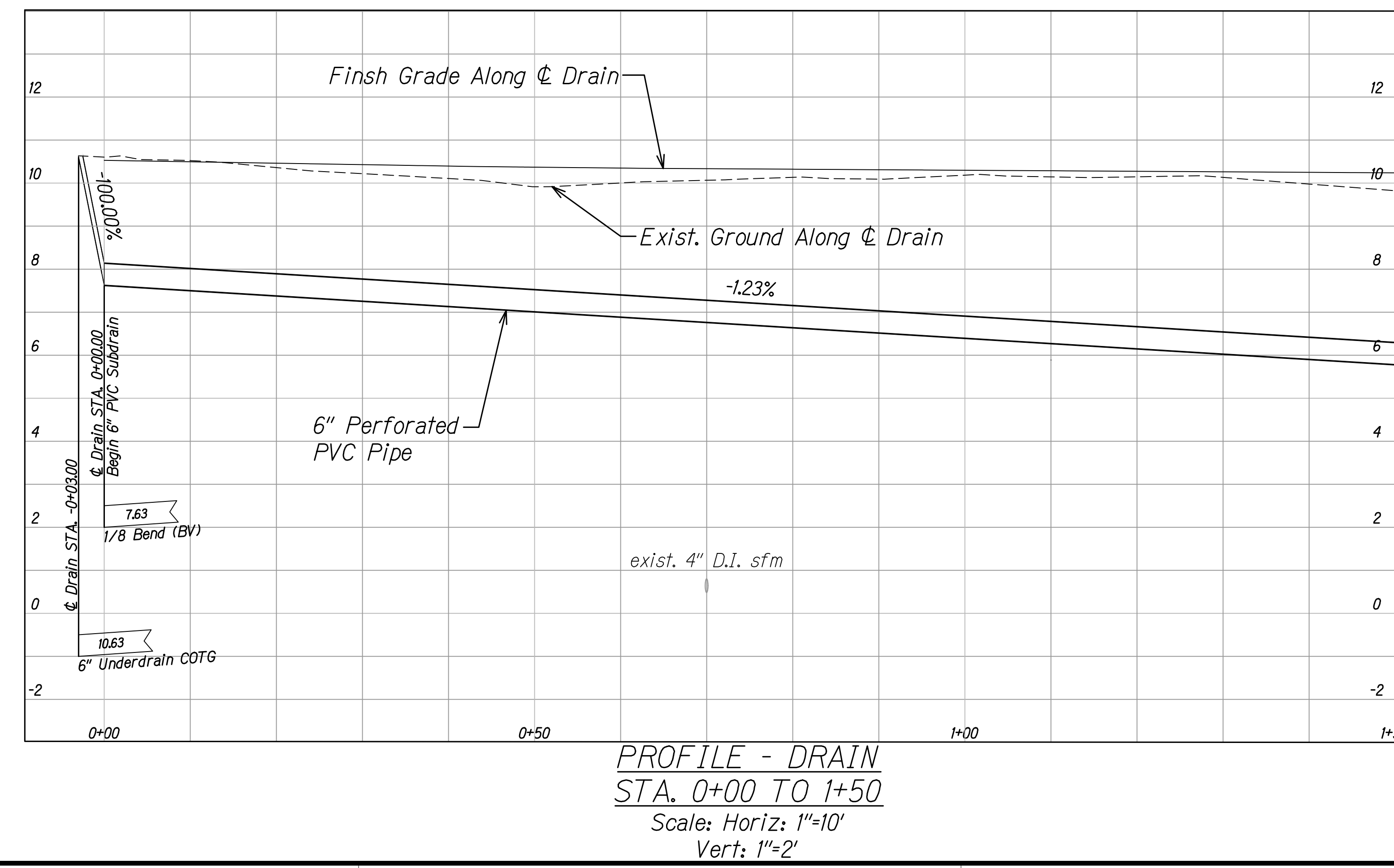
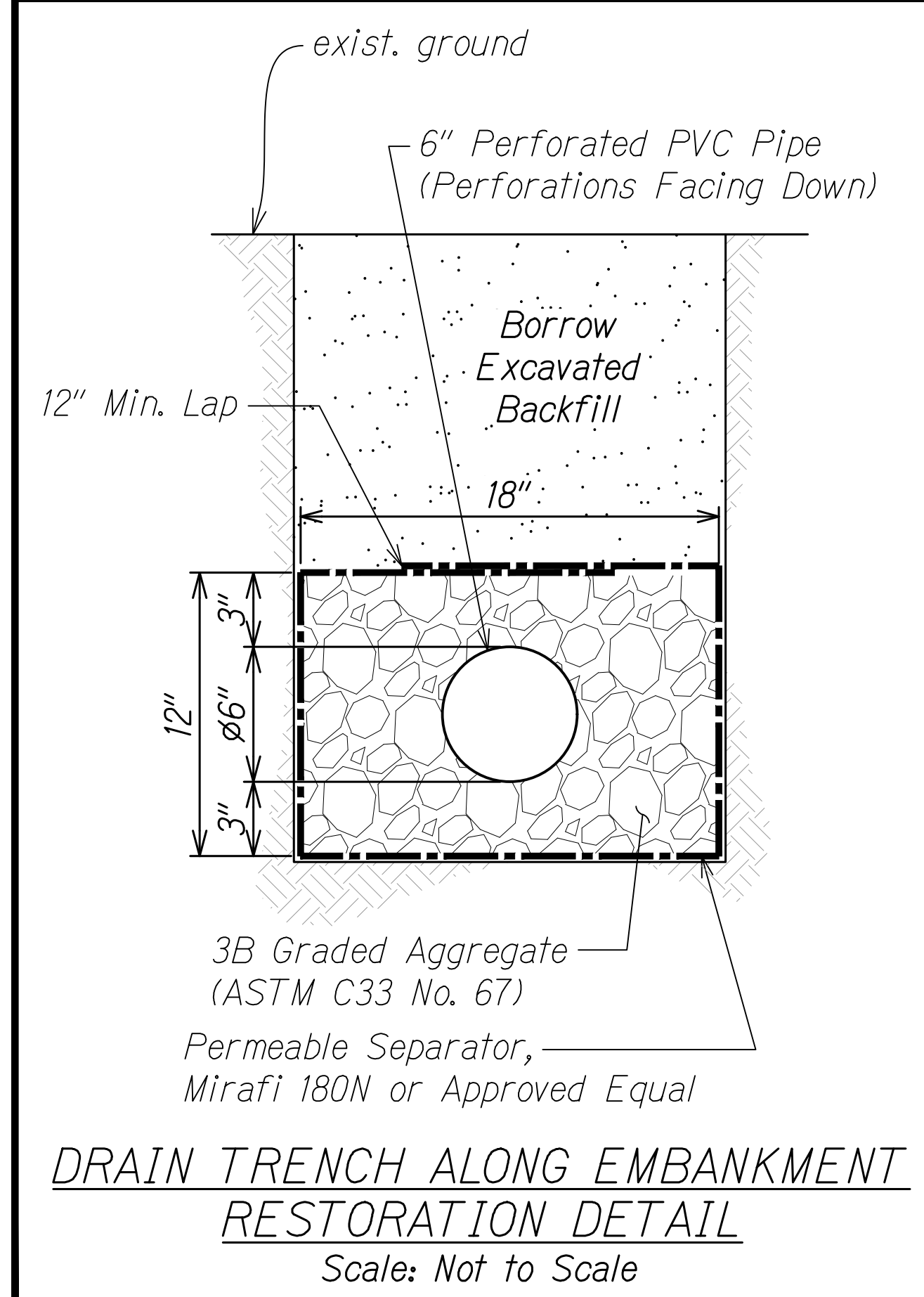
1. For ϕ Drain STA. 0+00 to STA. 3+00.43, see Typical Pavement Edge Detail on Sht R-2 for Drain Line Trench and Installation Details.
2. See Standard Plan H-29 for Underdrain Cleanout Details

ϕ Drain STA. -0+03.00
Install:
1 - Underdrain Cleanout

ϕ Kapaa Bypass STA. -0+50.00 o/s 7.14 Lt.
= ϕ Drain STA. 0+00.00
Begin 6" Perforated PVC Underdrain

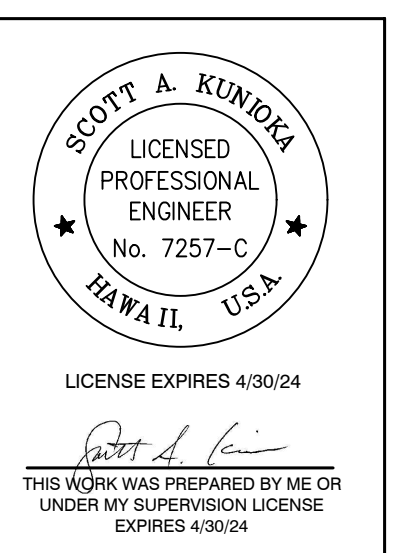
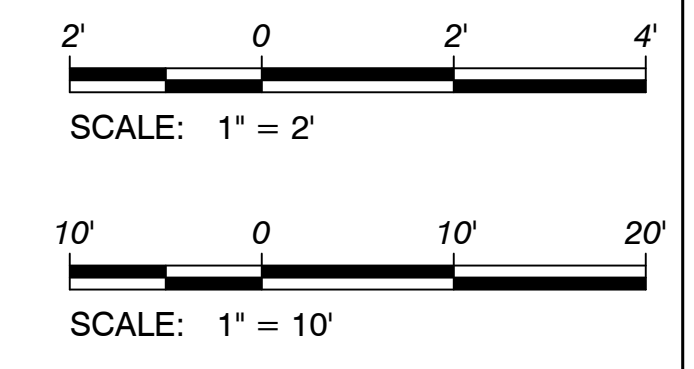


M.L. ϕ Drain STA. 1+50
SEE SHT D-2



M.L. ϕ Drain STA. 1+50
SEE SHT D-2

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

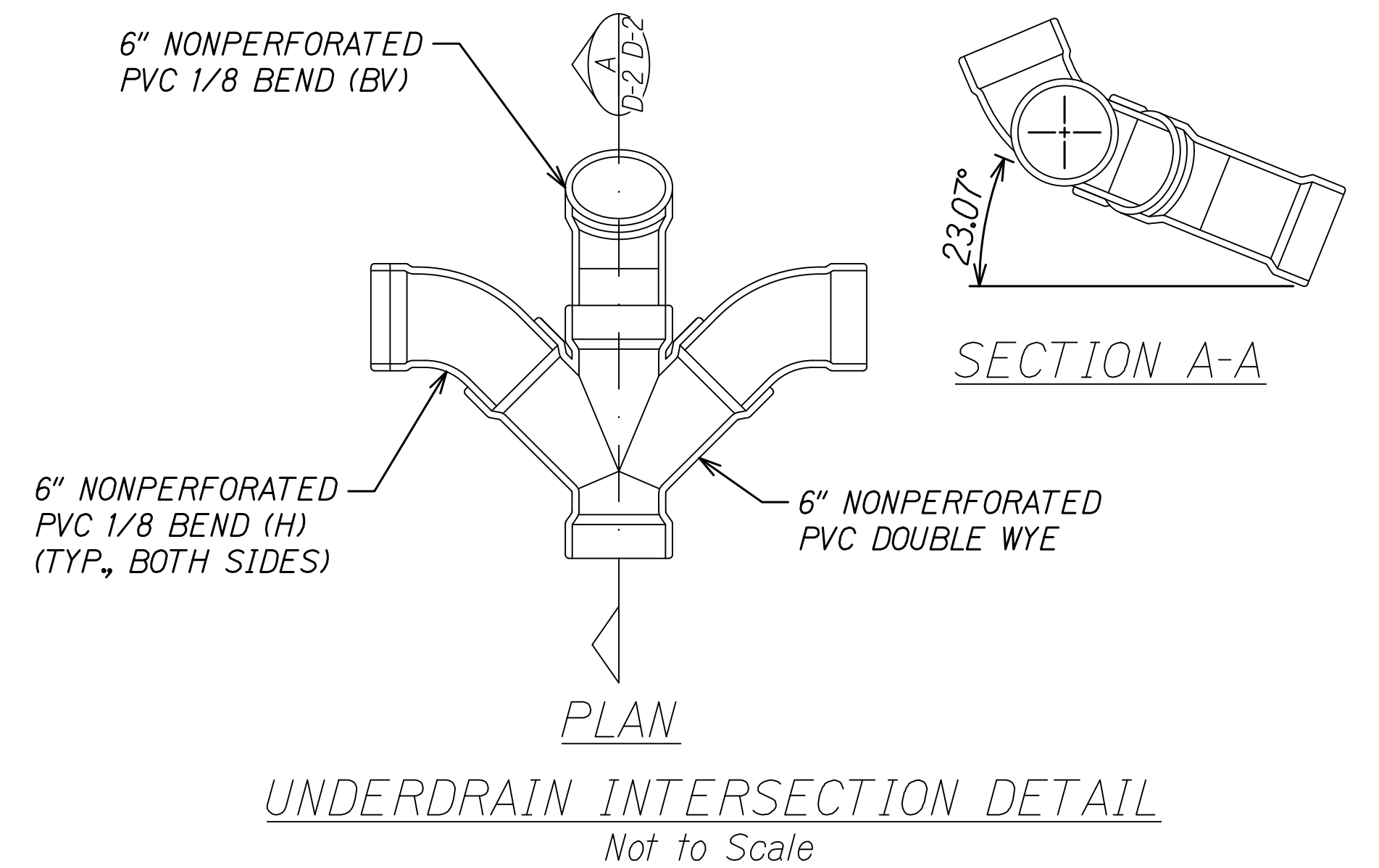
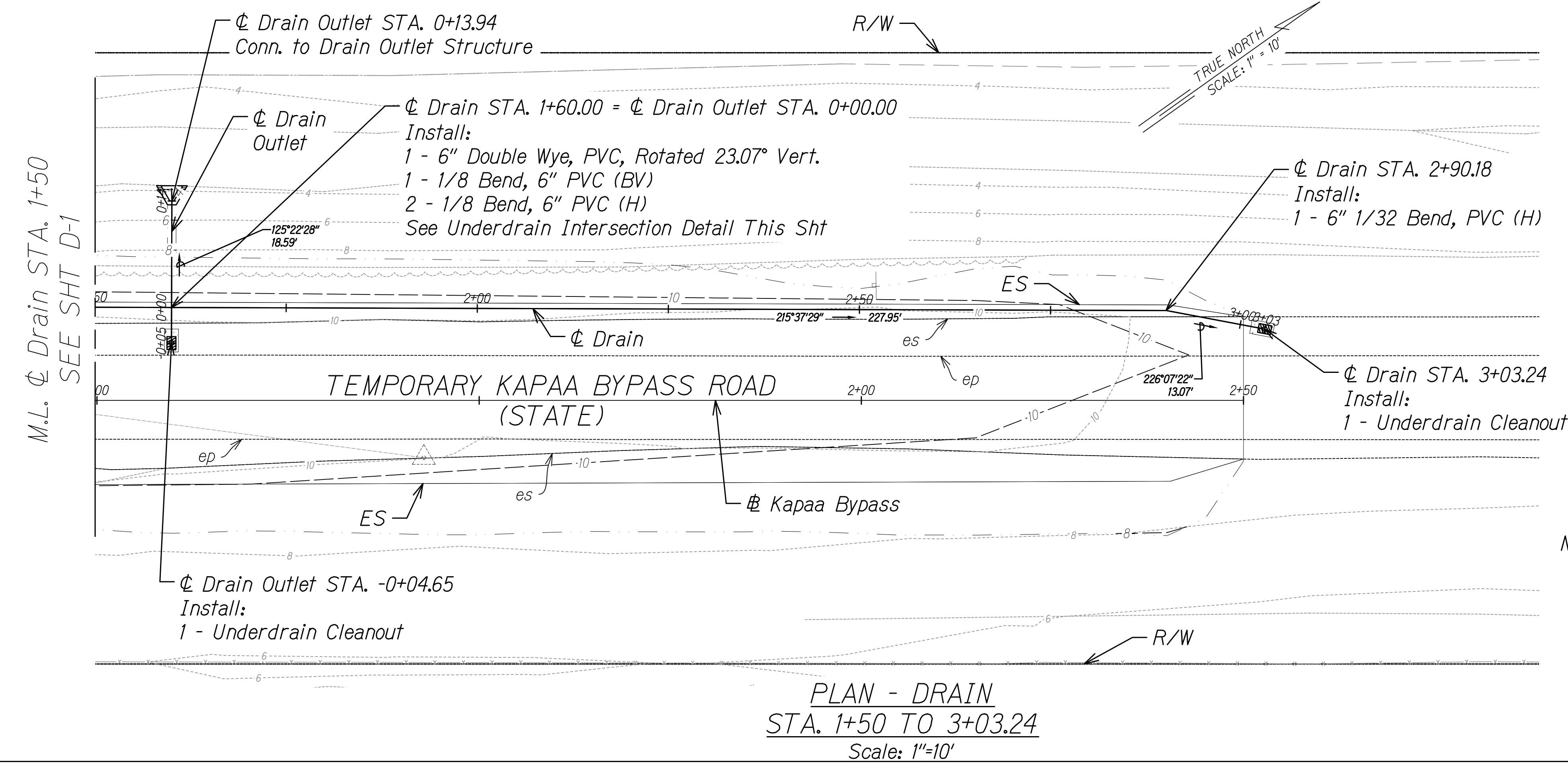
DRAIN PLAN & PROFILE

TEMPORARY KAPAA BYPASS ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M

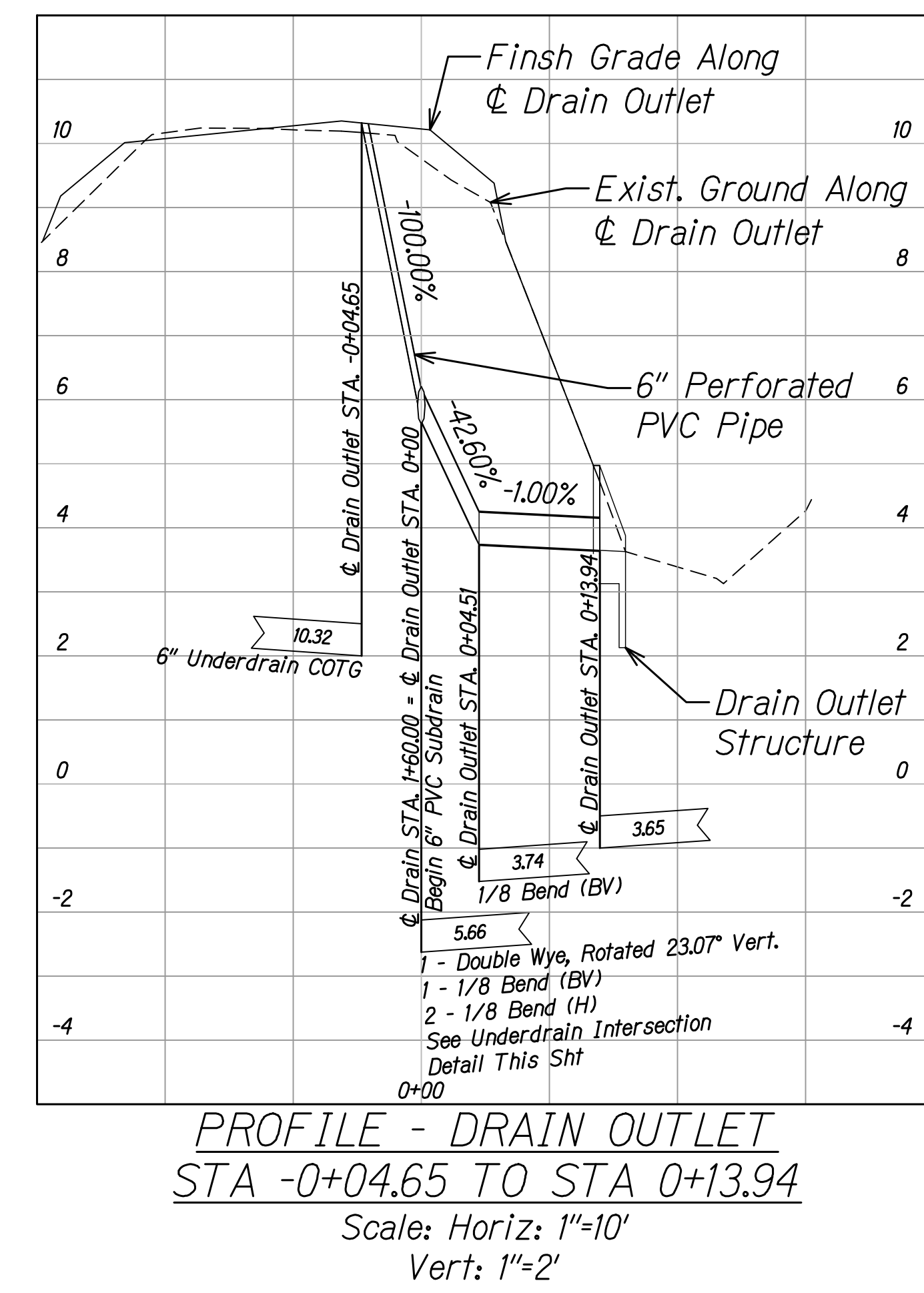
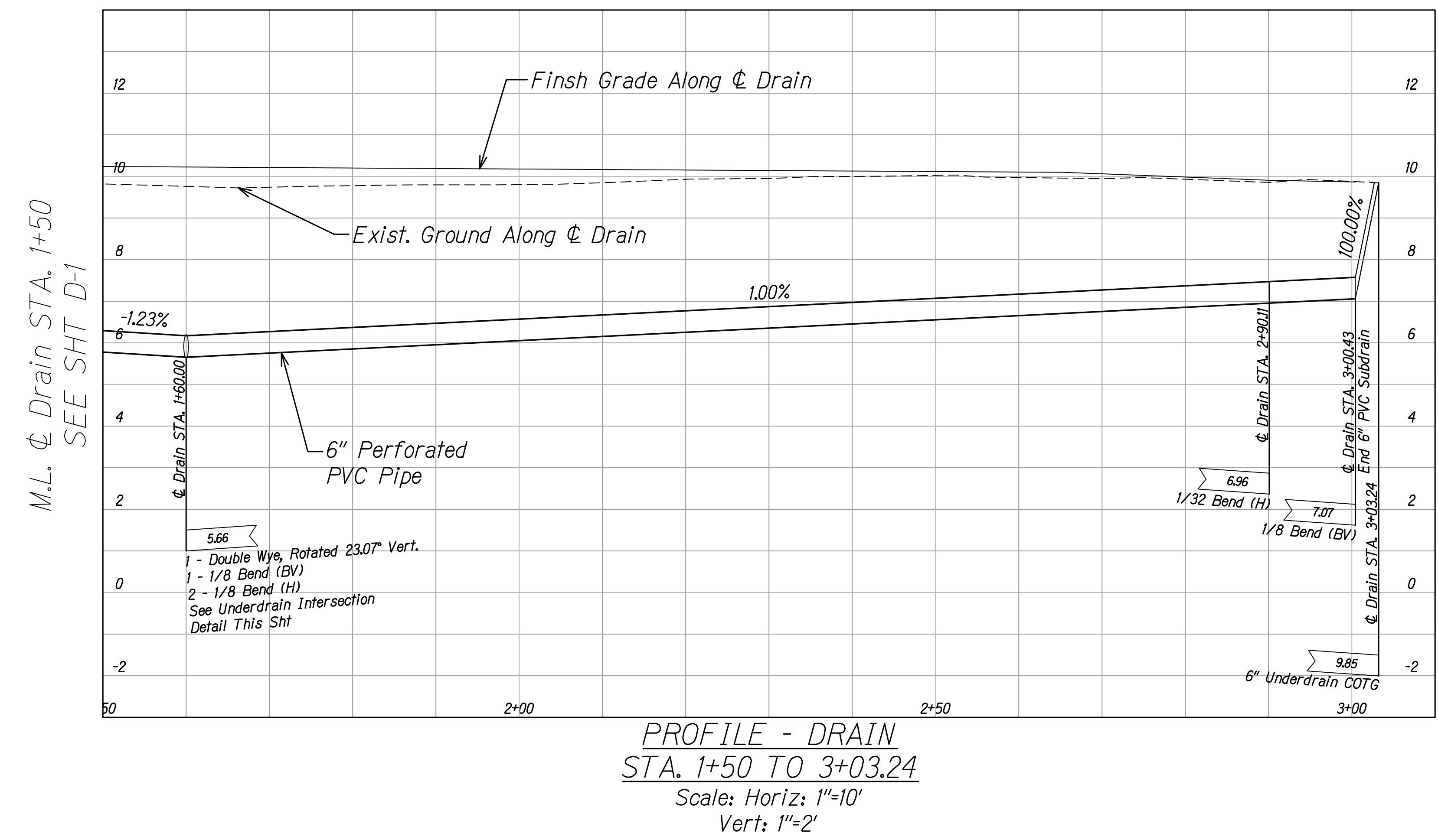
Scale: As Noted Date: December, 2023

SHEET No. D-1 OF 3 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII | HAW. | 5600-02-23M | 2024 | 18 | 21 |



- Notes:
- For ϕ Drain STA. 0+00 to STA. 3+00.43, see Typical Pavement Edge Detail on Sht R-2 for Drain Line Trench and Installation Details.
 - For ϕ Drain Outlet STA. -0+00.68 to STA. 0+13.94, see Drain Trench Along Embankment Restoration Detail on Sht D-1 for Drain Line Installation.
 - See Standard Plan H-29 for Underdrain Cleanout Details



2' 0 2' 4'

SCALE: 1" = 2'

10' 0 10' 20'

SCALE: 1" = 10'

SCOTT A. KUNIKI
LICENSED PROFESSIONAL ENGINEER
No. 7257-C
HAWAII, U.S.A.
LICENSE EXPIRES 4/30/24

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION LICENSE EXPIRES 4/30/24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAIN PLAN & PROFILE

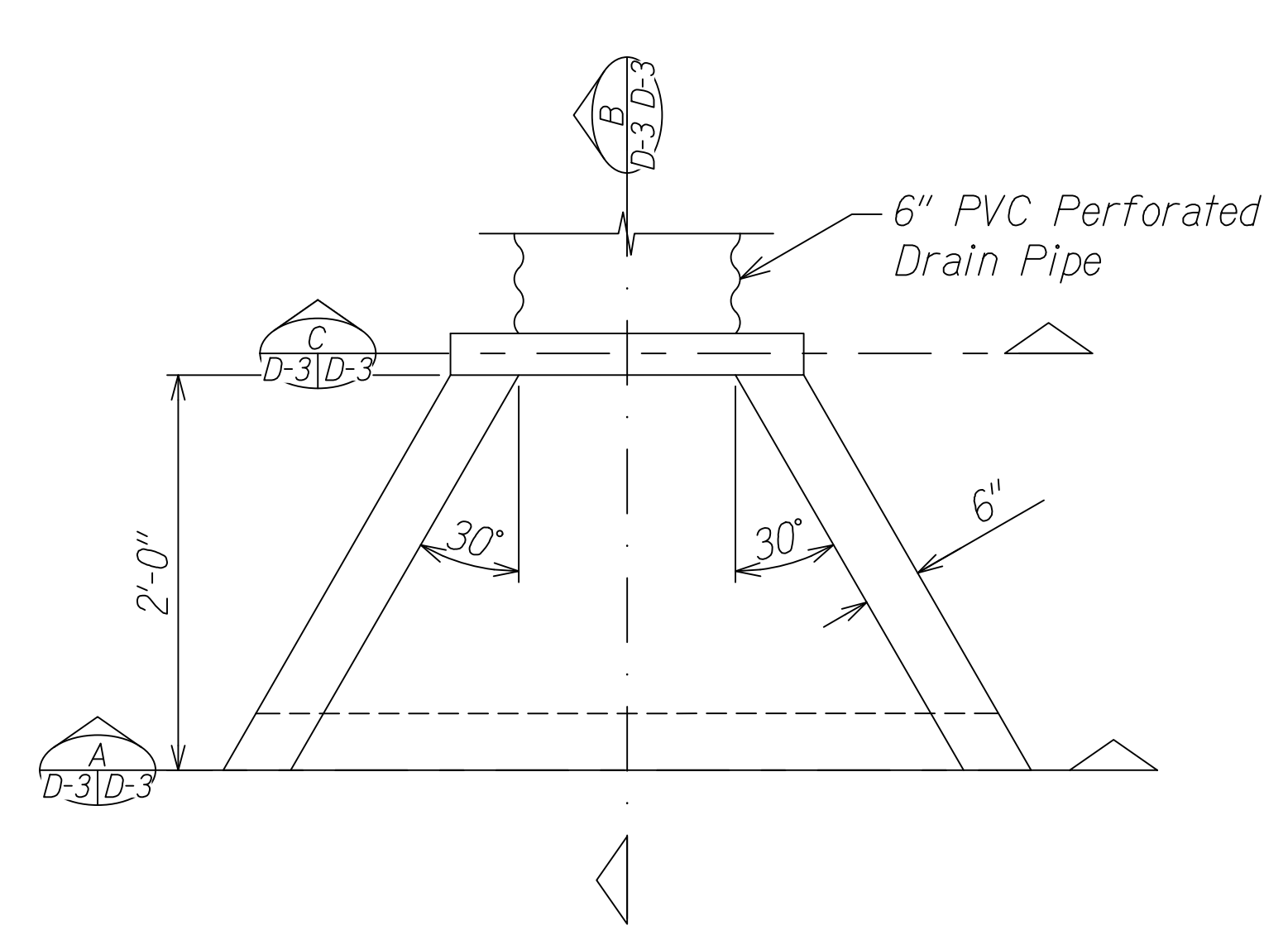
TEMPORARY KAPAA BYPASS ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M

Scale: As Noted Date: December, 2023

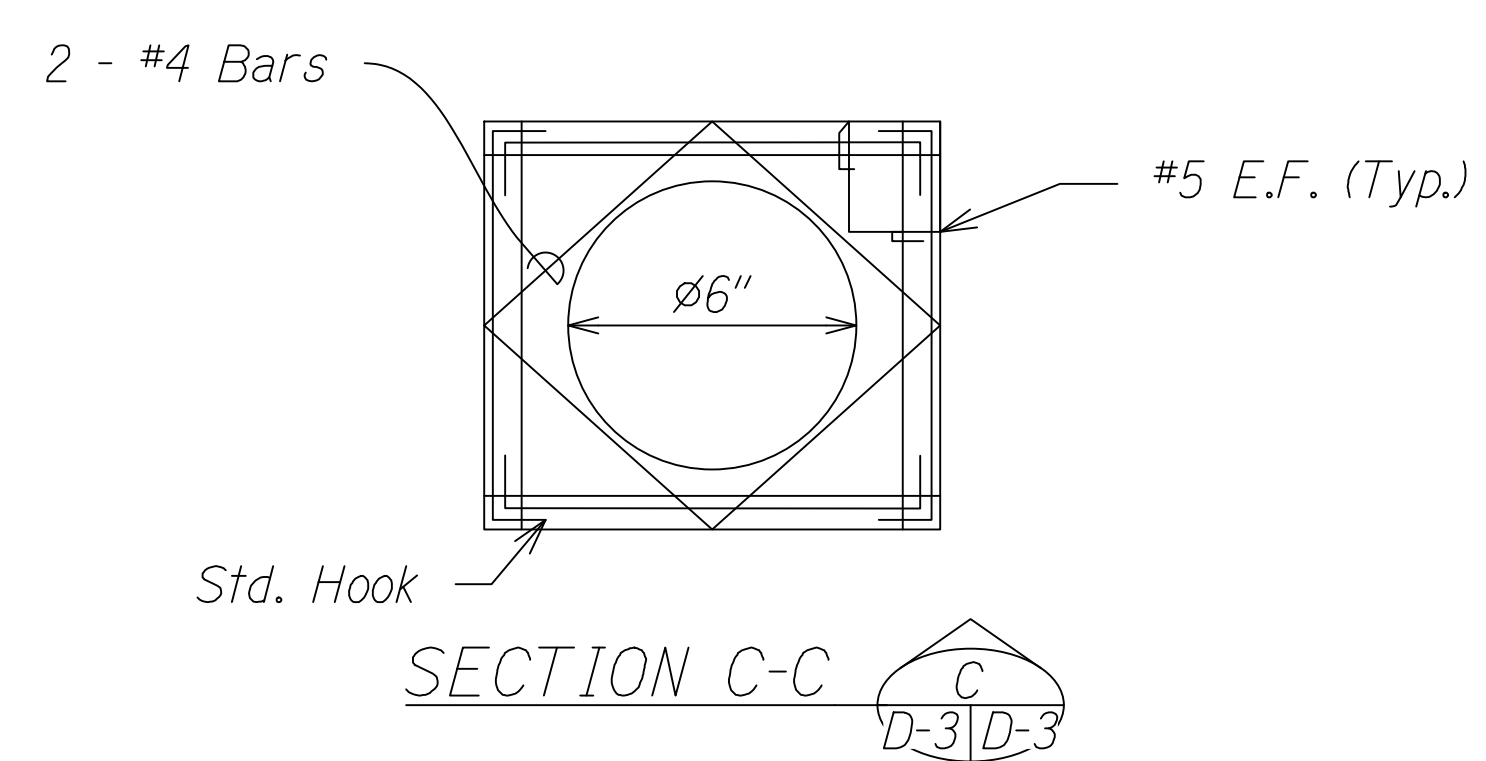
SHEET No. D-2 OF 3 SHEETS

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| SURVEY PLOTTED BY | DATE |
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| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |

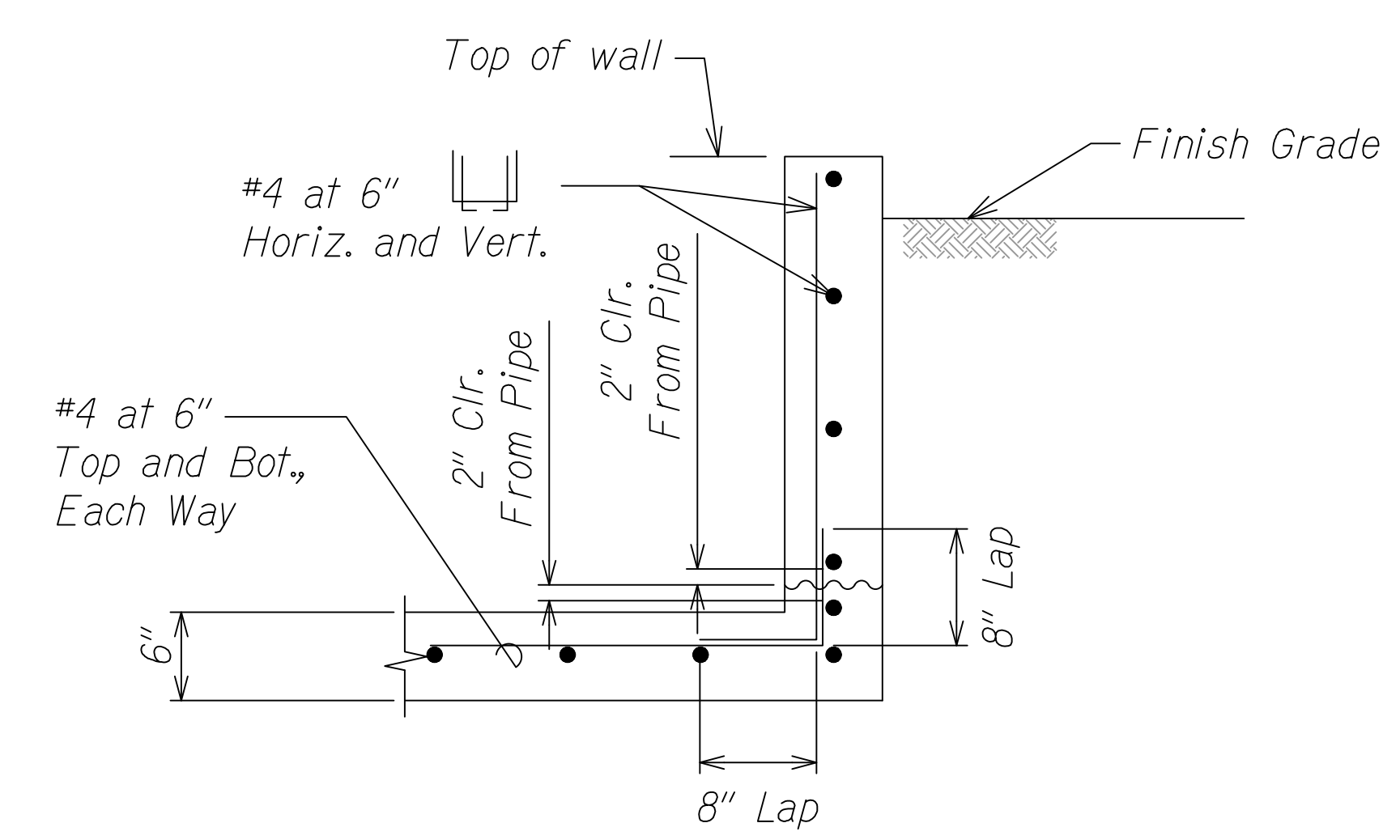
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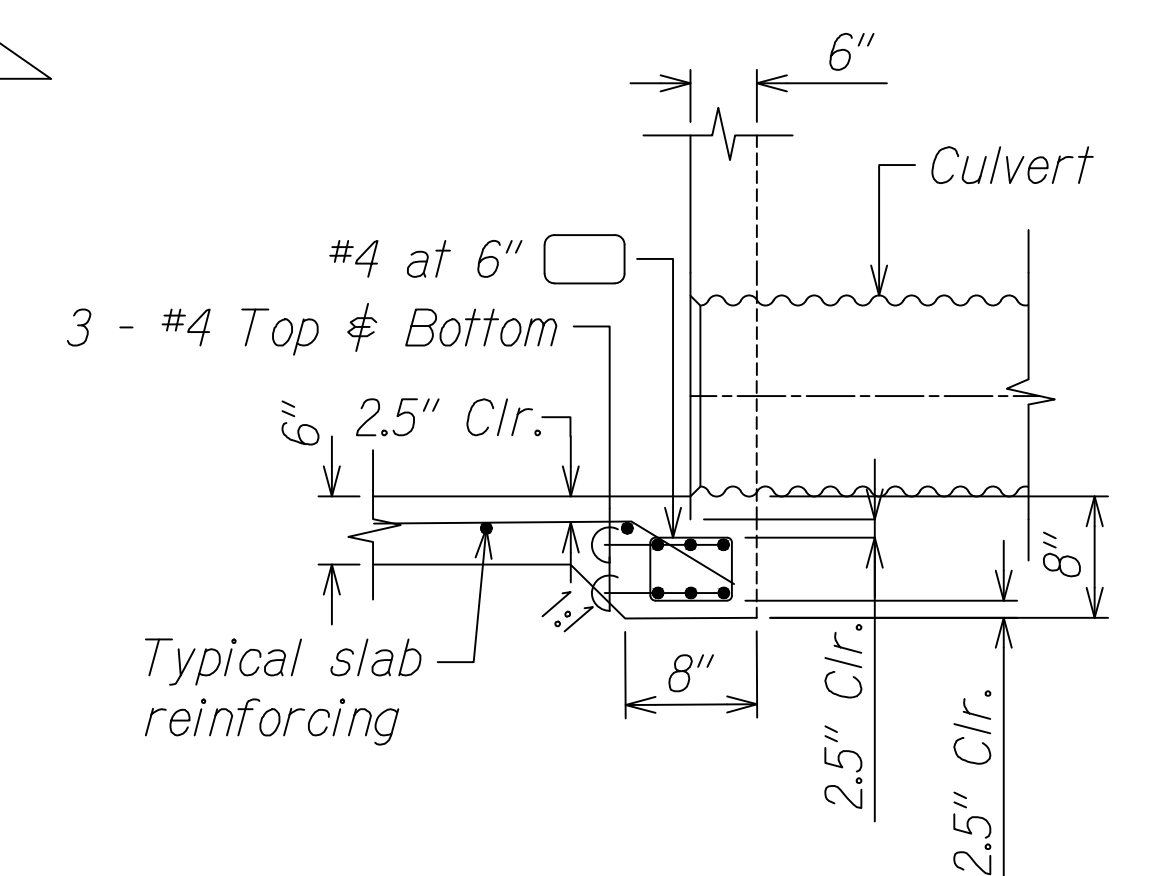
PLAN



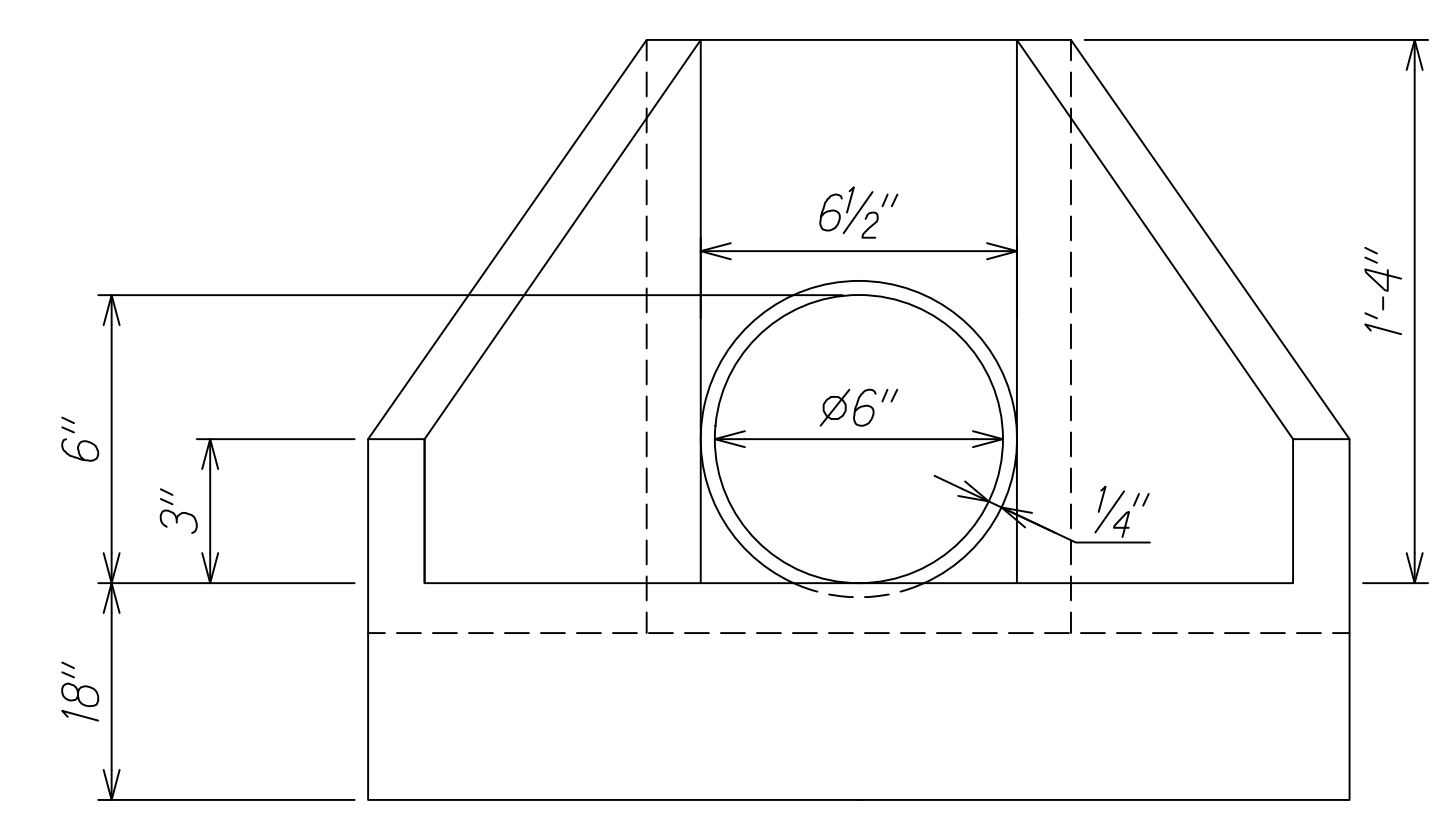
SECTION C-C



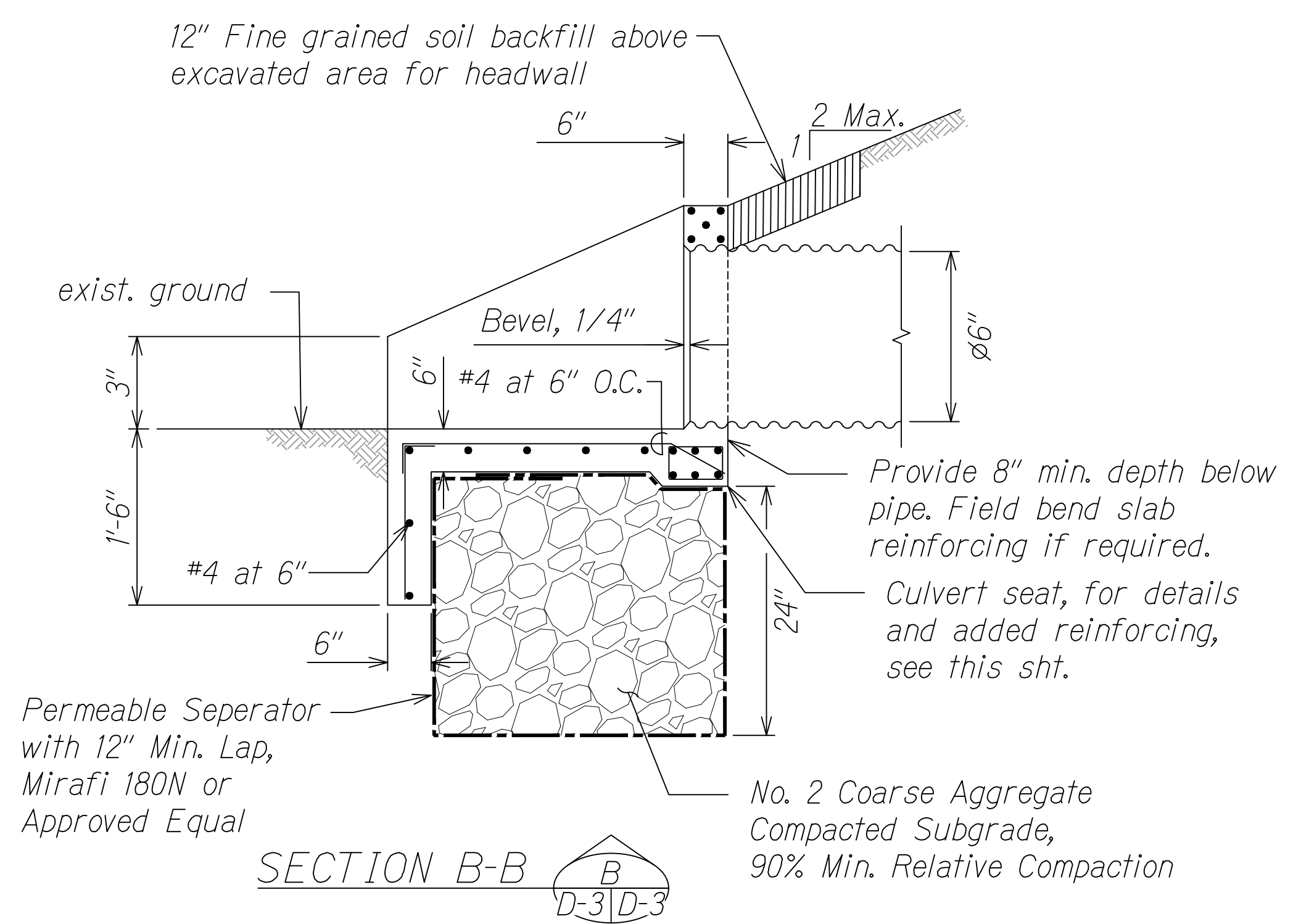
Typical Wing Wall Reinforcing Section



DETAIL OF CULVERT SEAT



SECTION A-A

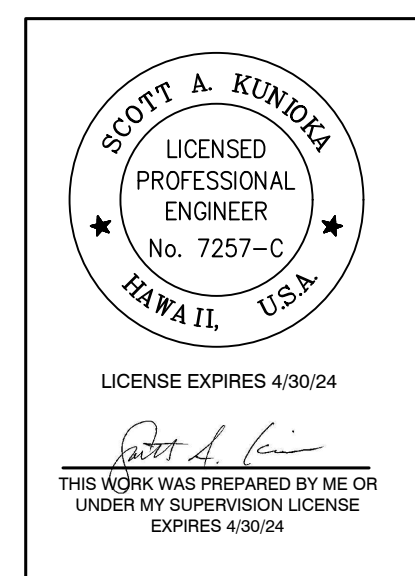


SECTION B-B

Notes:

- See HDOT Std. Plan H-22 for General Notes
- Concrete shall be 4,000 psi compressive strength at 28 days
- Install a Minimum of 24" of No. 2 Coarse Aggregate (90% Min. Relative Compaction) Wrapped with a Permeable Separator Fabric (Mirafi 180N or Approved Equal) Under the Drain Outlet Structure

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| DESIGNED BY | |
| QUANTITIES BY | |
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| NOTE BOOK | |
| NO. | |



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

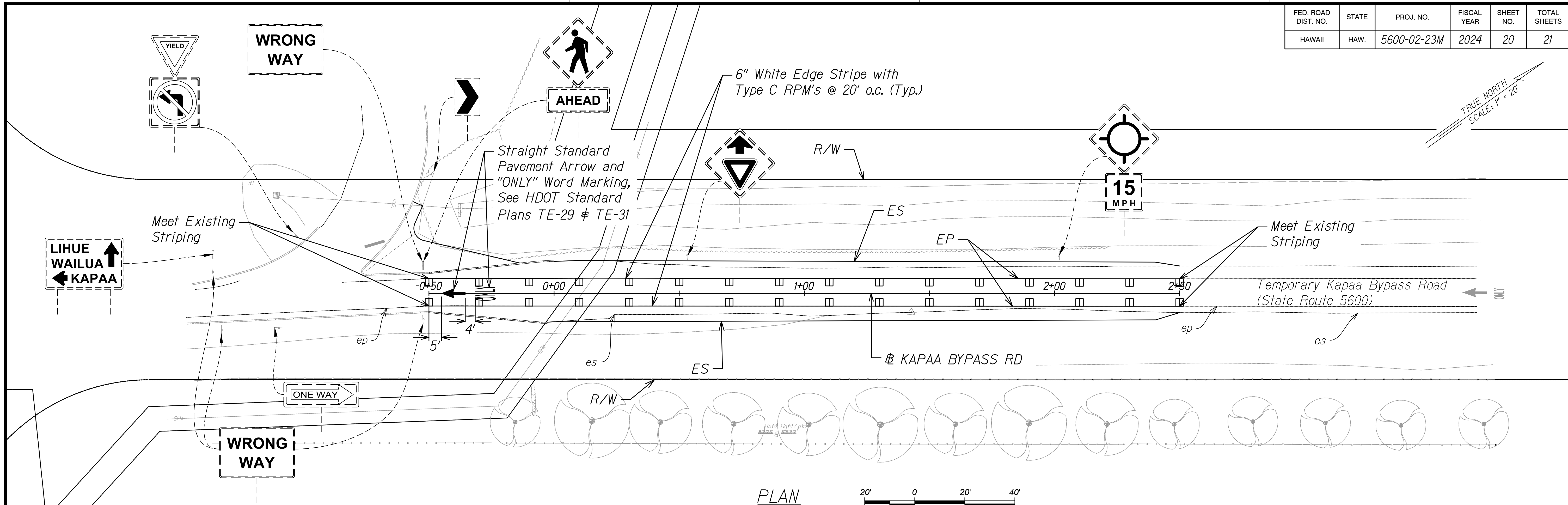
**DRAIN OUTLET
STRUCTURE DETAIL**

TEMPORARY KAPAA BYPASS
ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M

Scale: Not to Scale Date: December, 2023

SHEET No. D-3 OF 3 SHEETS

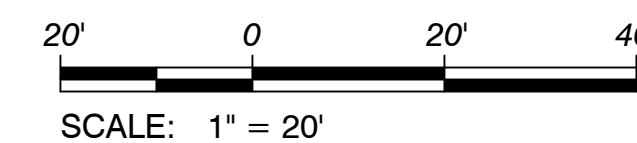
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|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII | HAW. | 5600-02-23M | 2024 | 20 | 21 |



PAVEMENT MARKING AND SIGNING NOTES:

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. The costs shall be incidental to the various pavement marking items.
3. All pavement striping shall be as noted on the legend or plans.
4. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape's manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
5. The Contractor shall erect advance construction warning signs at the beginning and at the end of the project site. Construction warning signs shall be placed as indicated on the plans or as directed by the Engineer. The signs shall be kept in place for the duration of the project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs called for in Section 645 - Work Zone Traffic Control. The advanced construction warning signs shall be new and become property of the State. The Contractor shall remove, clean and deliver the signs and posts to the Kauai District Baseyard or as directed by the Engineer of the project.
6. All pavement striping, legends and symbols shall be retroreflective thermoplastic compound pavement markings.
7. All temporary signs shall be marked on their back side with the Contractor's name and the project number.
8. All pavement markings, including arrows and words, shall be centered in the lane.

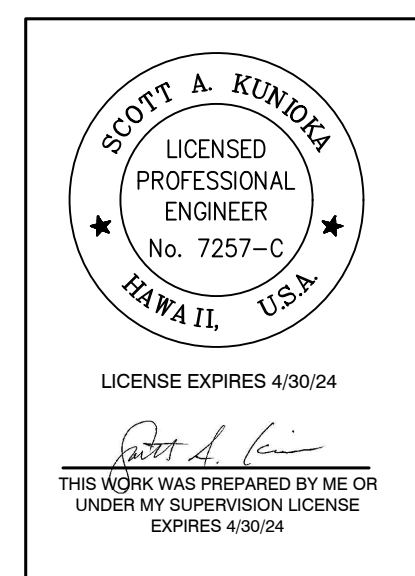
PLAN
Scale: 1"=20'



LEGEND:

- Exist. Traffic Sign (To Remain)
- 6" White Edge Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Thermoplastic Extrusion)

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| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
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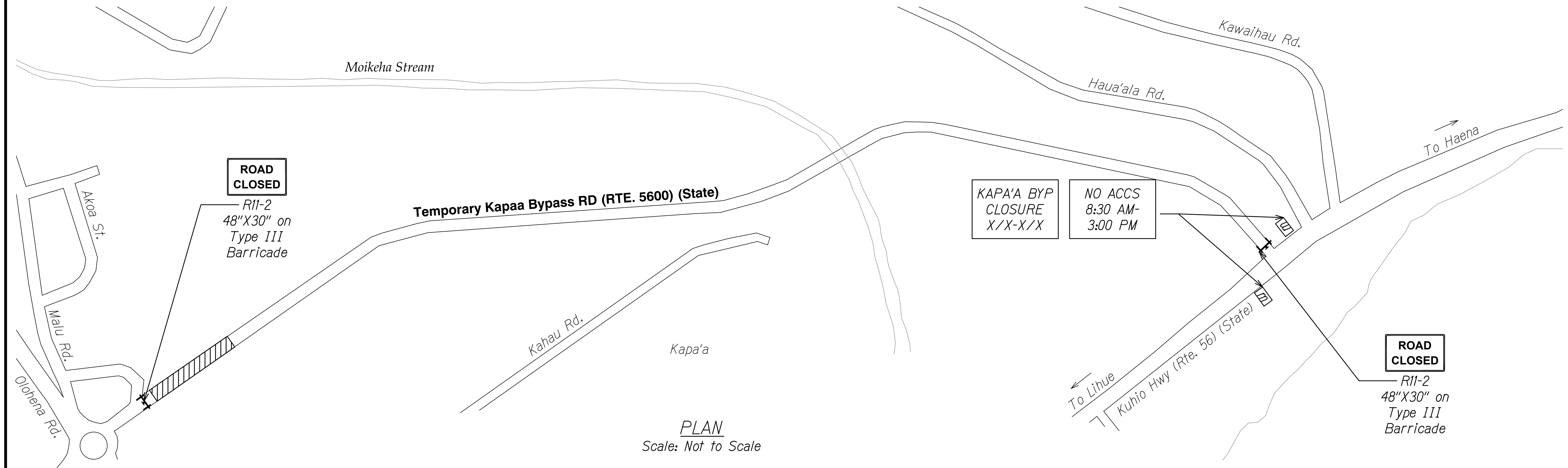


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING
PLAN & NOTES
TEMPORARY KAPAA BYPASS
ROAD REPAIR
Vicinity of Olohena Road
Project No. 5600-02-23M
Scale: 1"=20' Date: December, 2023

SHEET No. P-1 OF 1 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII | HAW. | 5600-02-23M | 2024 | 21 | 21 |

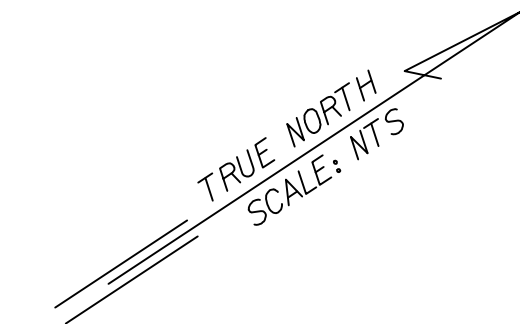


PLAN
Scale: Not to Scale

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

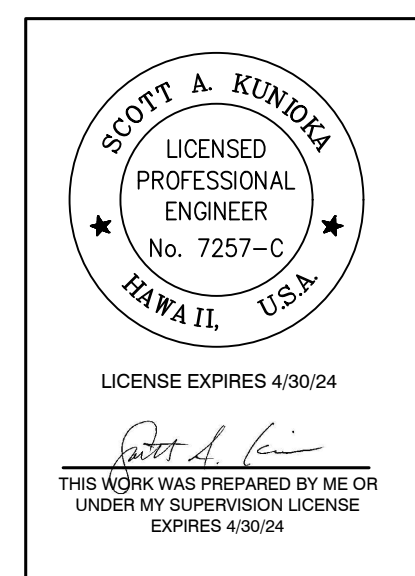
1. The Permittee Shall Make Minor Adjustments At Intersections, Driveways, Bridges, Structures, Etc., To Fit Field Conditions.
2. Delineators Shall Be Extended To A Point Where They Are Visible To Approaching Traffic.
3. Traffic Control Devices Shall Be Installed Such That The Sign Or Device Farthest From The Work Area Is 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.
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 Permittee Shall Install A Flashing Arrow Signal As Shown On The Traffic Control Plans.
7. All Traffic Lanes Shall Be A Minimum Of 10 Feet Wide.
8. All Construction Warning Signs Shall Be Promptly Removed Or Covered Whenever The Message Is Not Applicable Or Not In Use.
9. 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).

10. Lane Closure Shall Be Limited Only To The Extent Of Accomplishing Each Day's Work. As Soon As Each Day's 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. Existing Faded Or Obliterated Pavement Markings That Are Necessary For Safe Traffic Flow In The Construction Area Shall Be Replaced With Temporary Or Permanent Markings Before Opening The Roadway To Public Traffic Each Day.
11. Permanent Pavement Markings And Traffic Signs Shall Be Replaced Upon Completion Of Each Phase Of Work.
12. Delineators Shall Be Spaced At A Maximum Distance Of 10 Feet Apart. A Minimum Of Six Channelizing Devices Shall Be Used For Each Taper Length.
13. Driveways Shall Be Kept Open Unless The Owners Of The Property Using The Right-Of-Way Are Otherwise Provided For Satisfactorily. Further, The Permittee Shall Control Traffic Going In And Out Of Driveways.
14. Buffer And Taper Areas On Approach To Any Work Area Shall Be Kept Clear Of Vehicles And Equipment.
15. A High Level Warning Device (Flag Tree) Shall Be Installed On Approach To All Work Areas.
16. "No Parking" Signs Shall Be Posted Within Any Work Area And For The Buffer And Taper Areas Approaching The Work Area.
17. The Contractor shall provide and maintain portable message boards that display advanced closure dates and times. The boards shall be operational 24 hours a day three (3) days prior to the first road closure. Boards shall remain for the duration of the full road closure.



LEGEND

- Sign
- ▭ Portable Message Board
- ⊥ Type III Barricade



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
ROADWAY FULL CLOSURE

TEMPORARY KAPAA BYPASS
ROAD REPAIR
Vicinity of Oloheua Road
Project No. 5600-02-23M

Scale: Not to Scale Date: December, 2023

SHEET No. *TC-1* OF 1 SHEETS

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| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| DESIGNED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| NO. | |