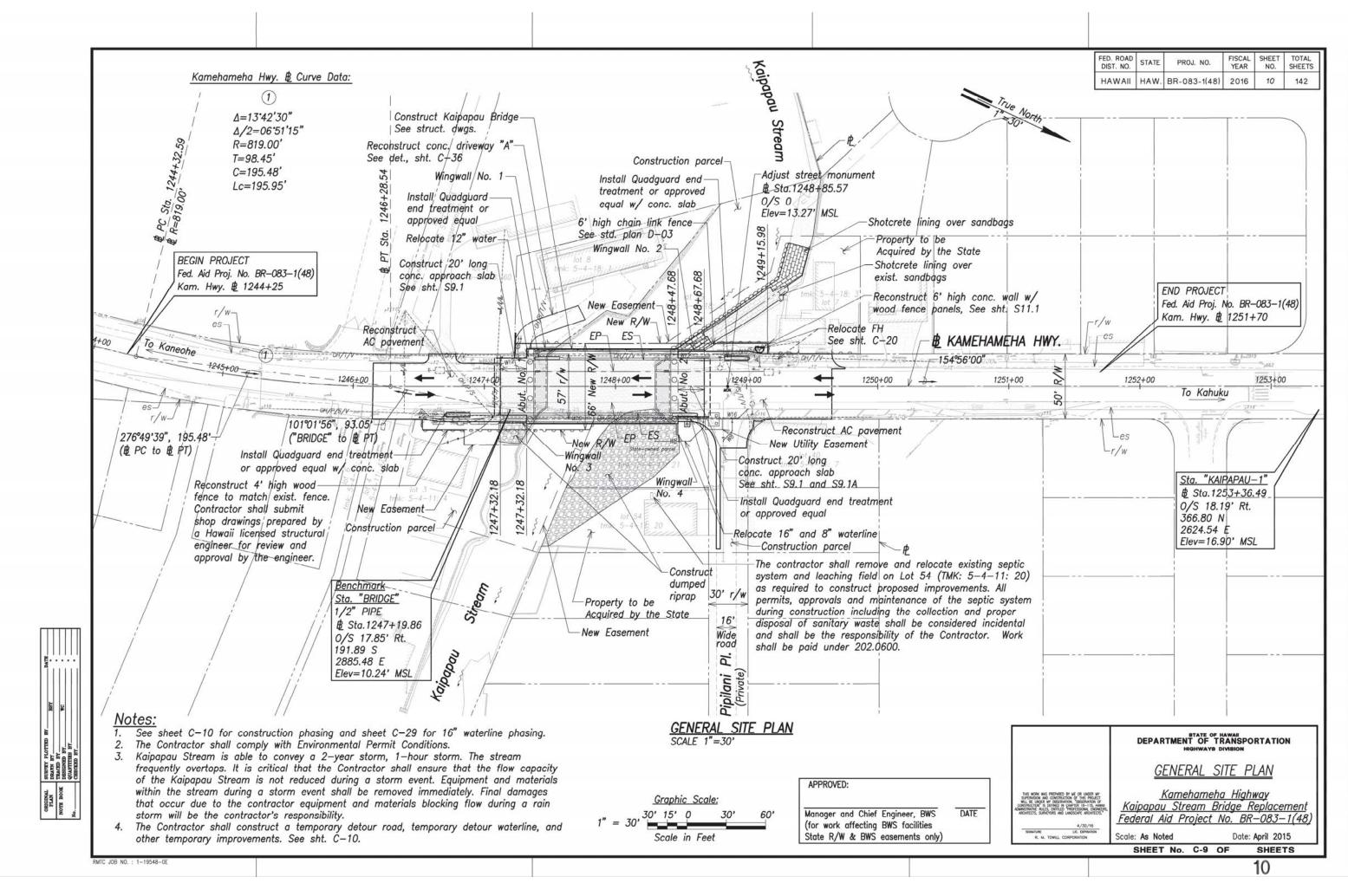
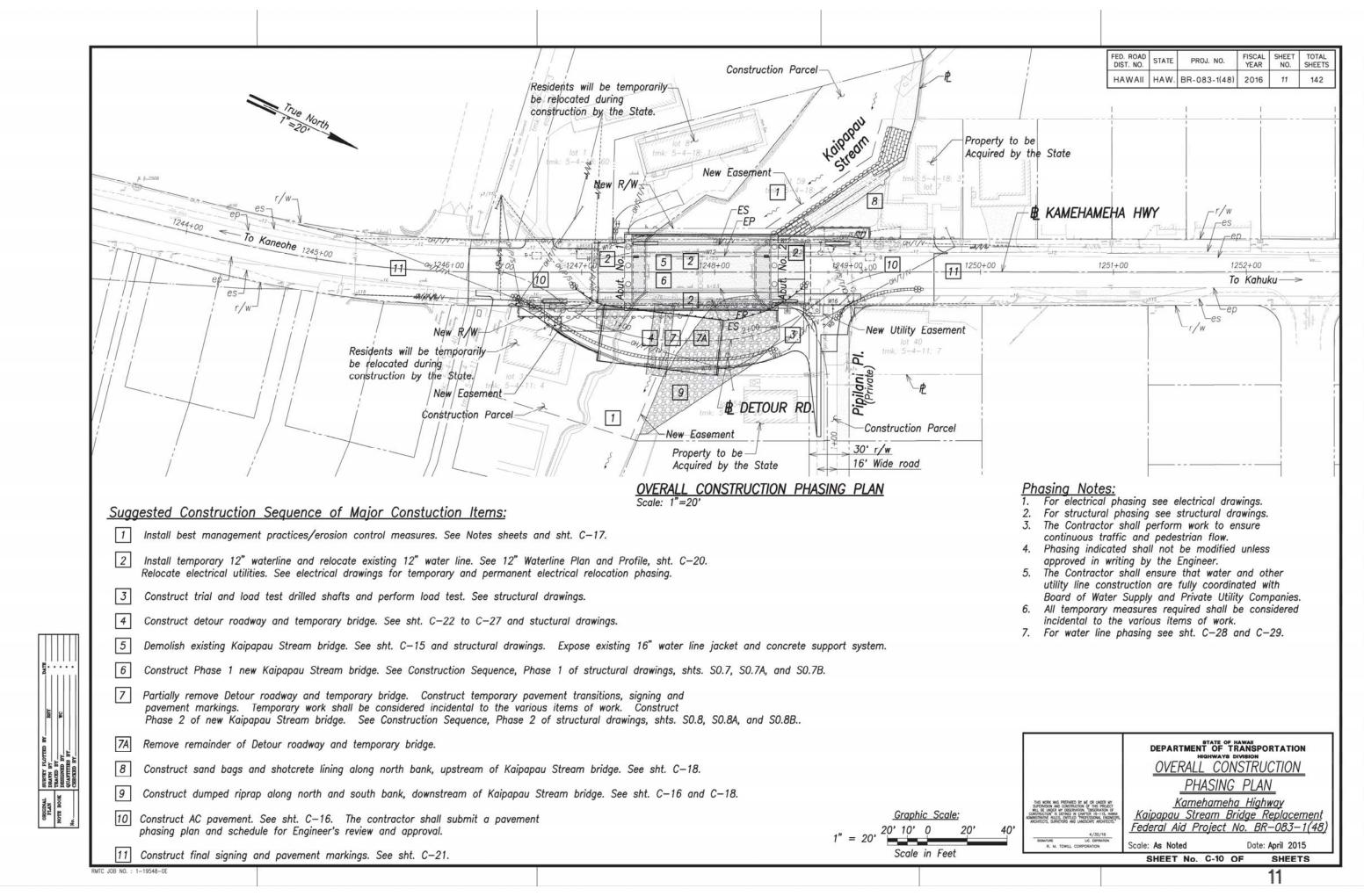
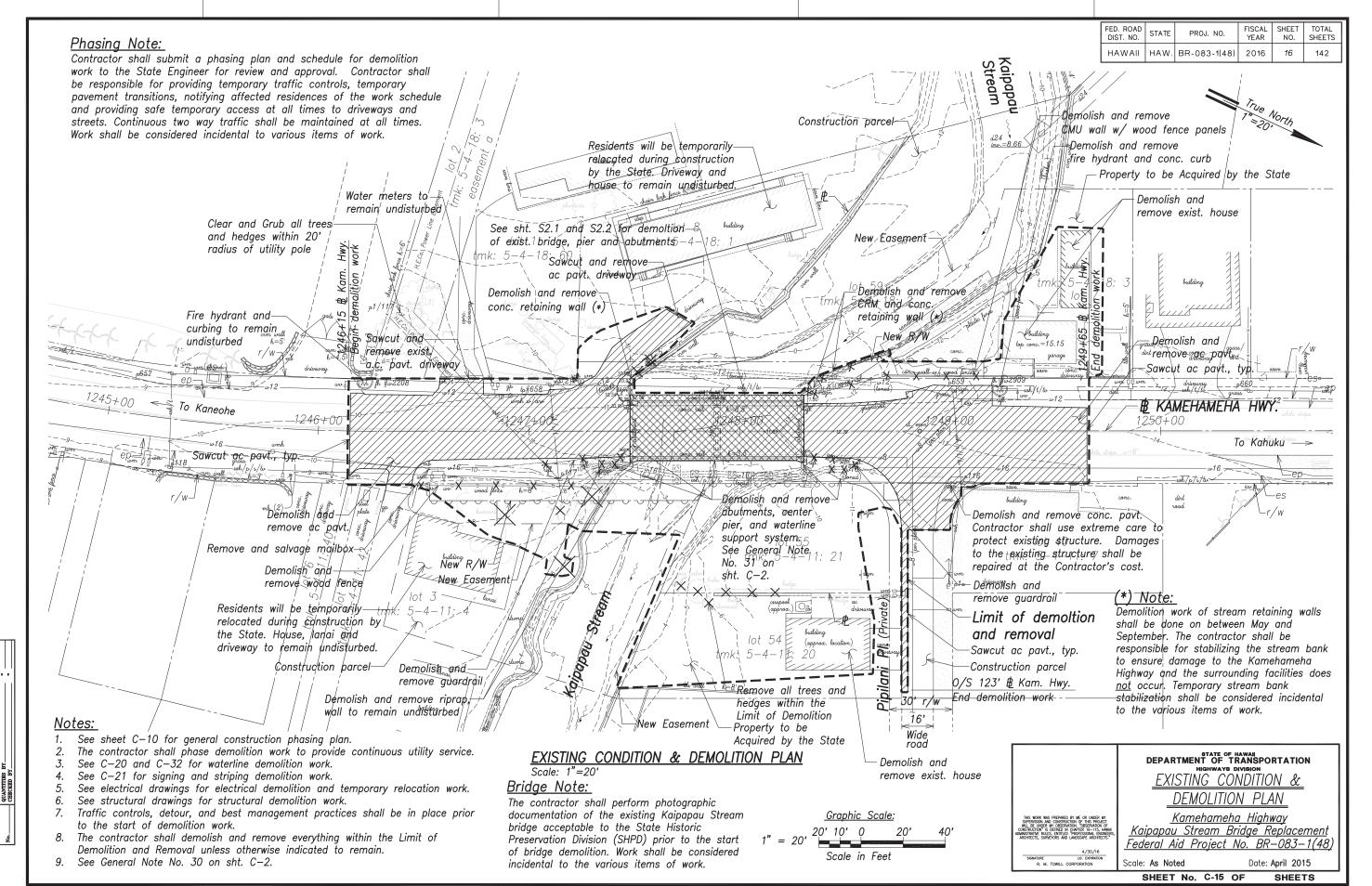
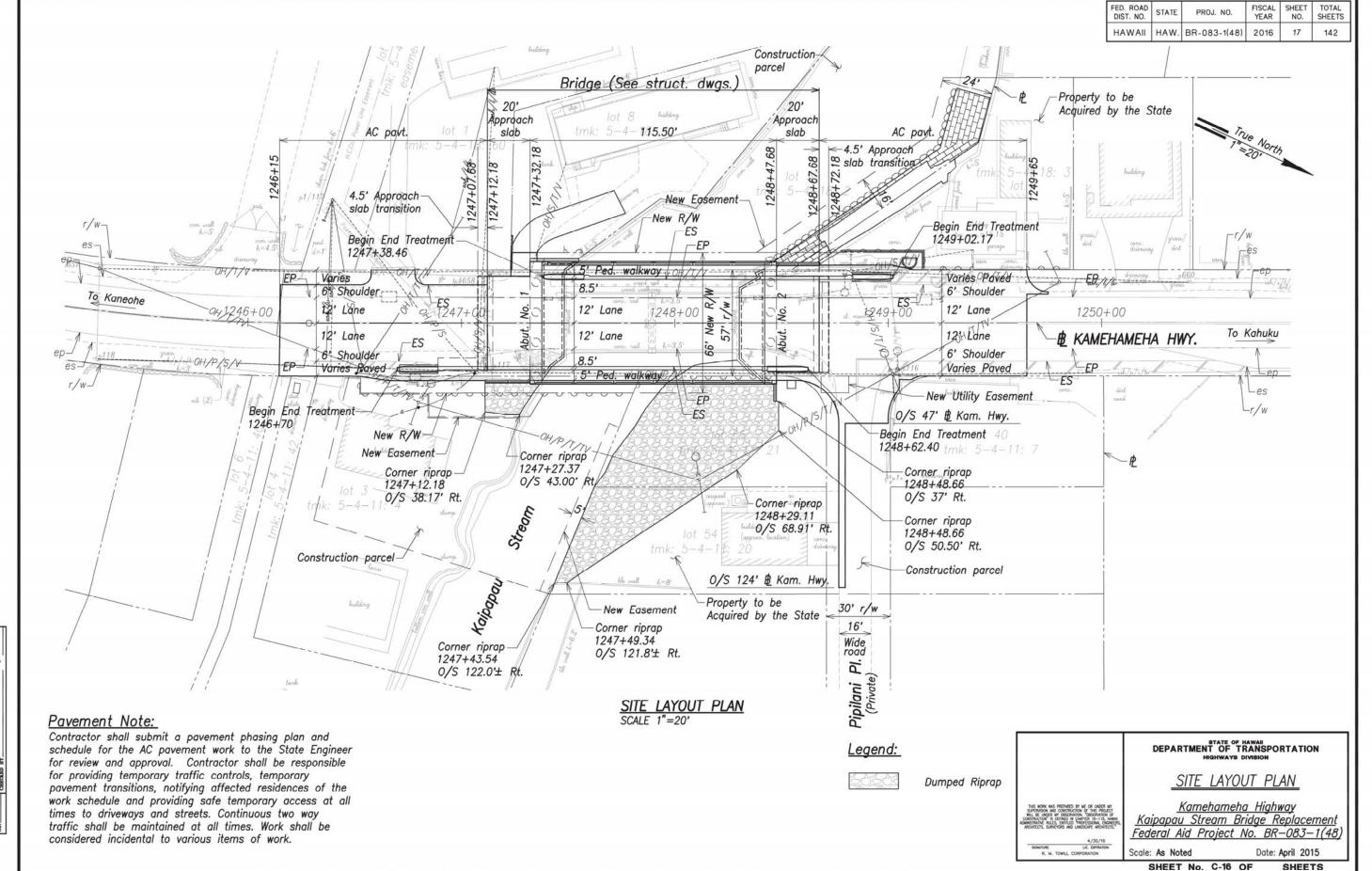
Attachment B Construction Drawings





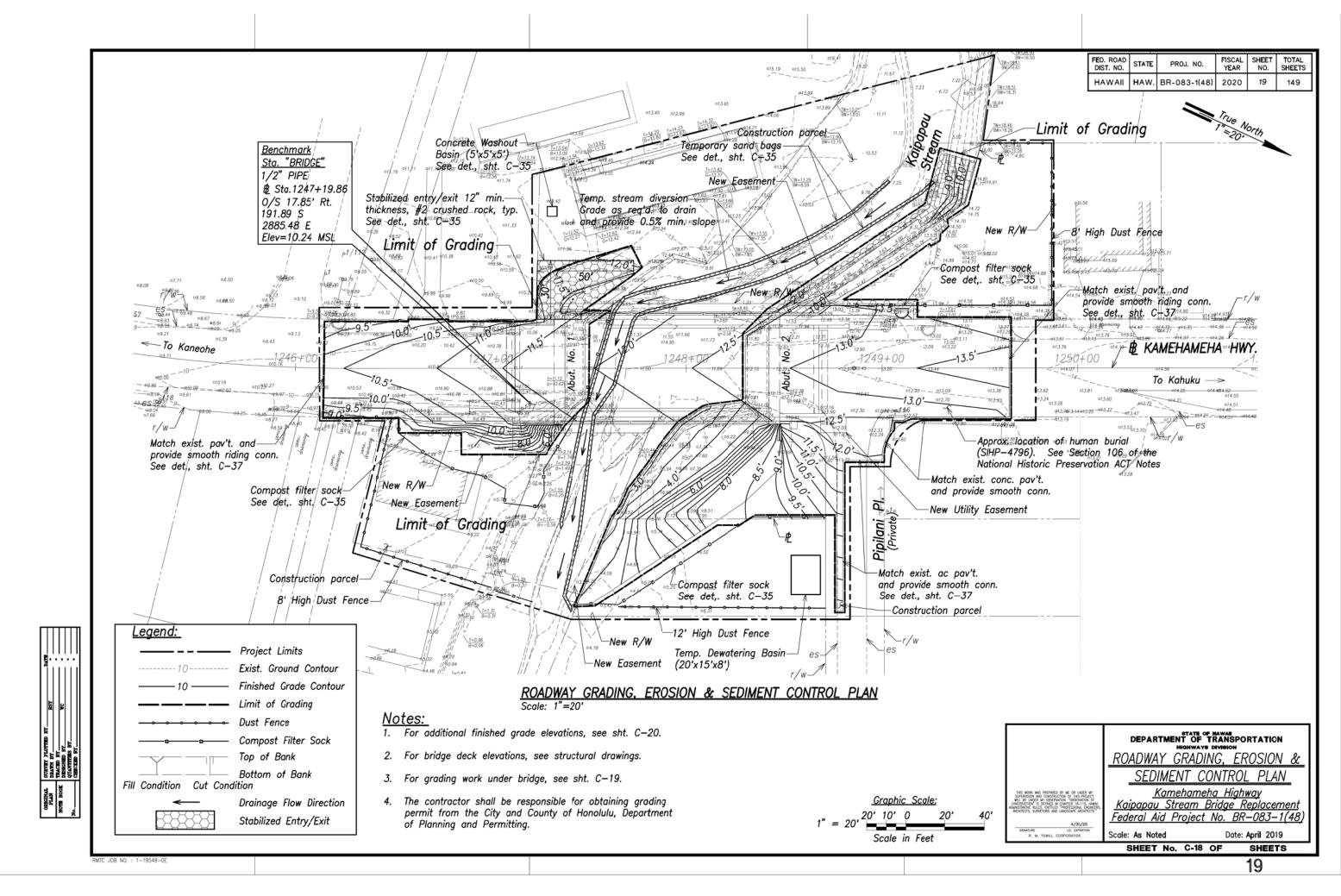


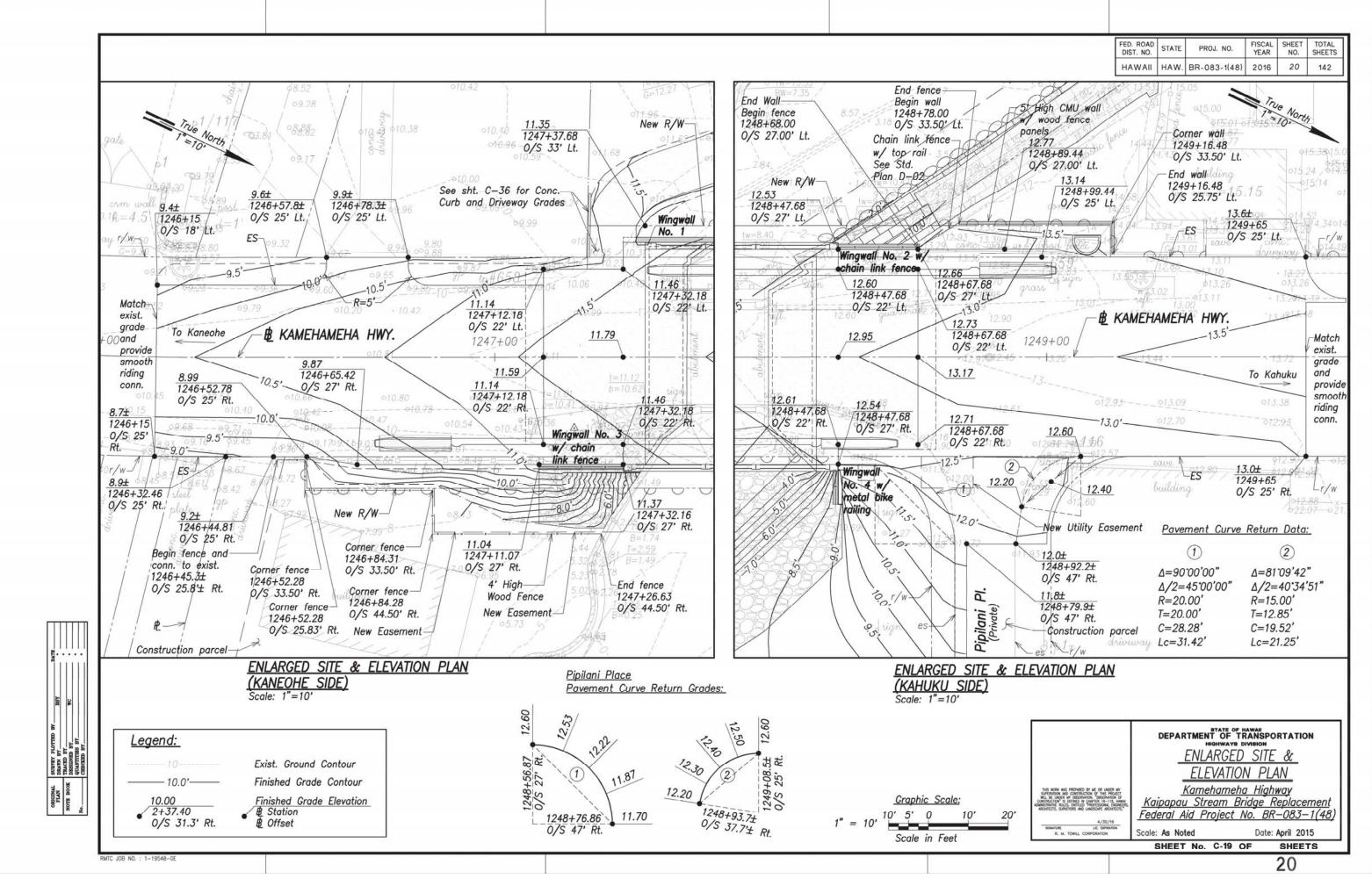
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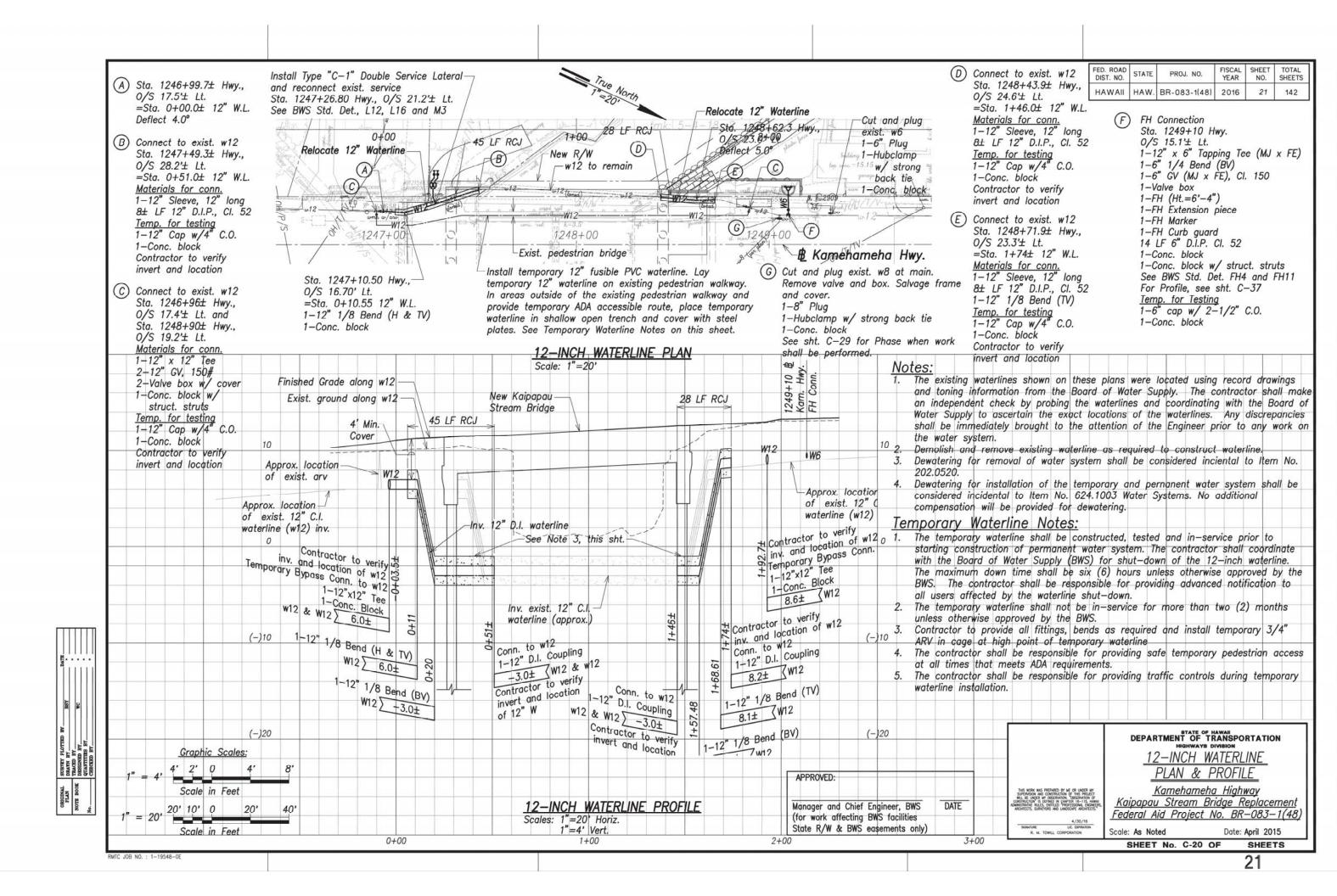


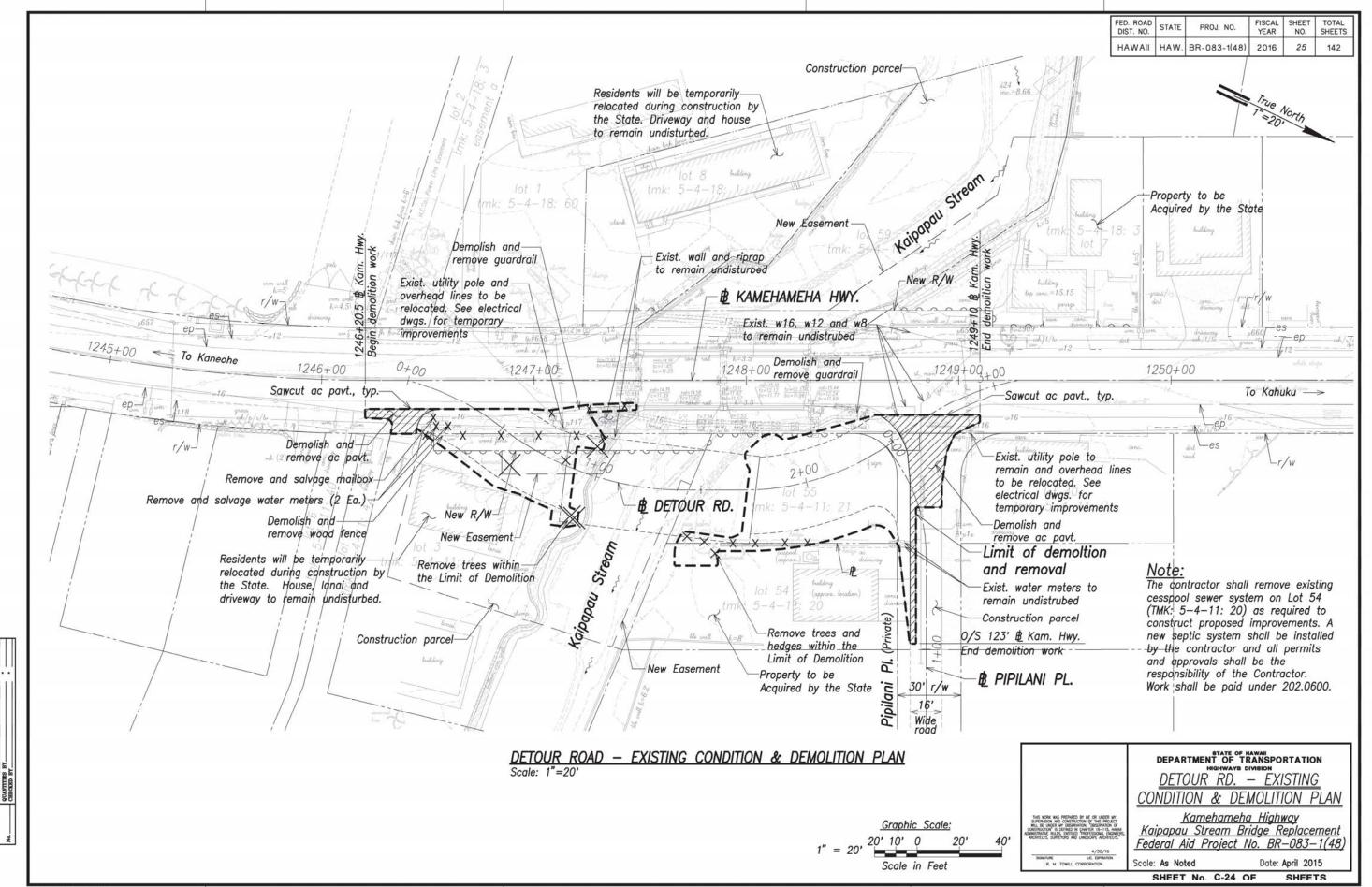
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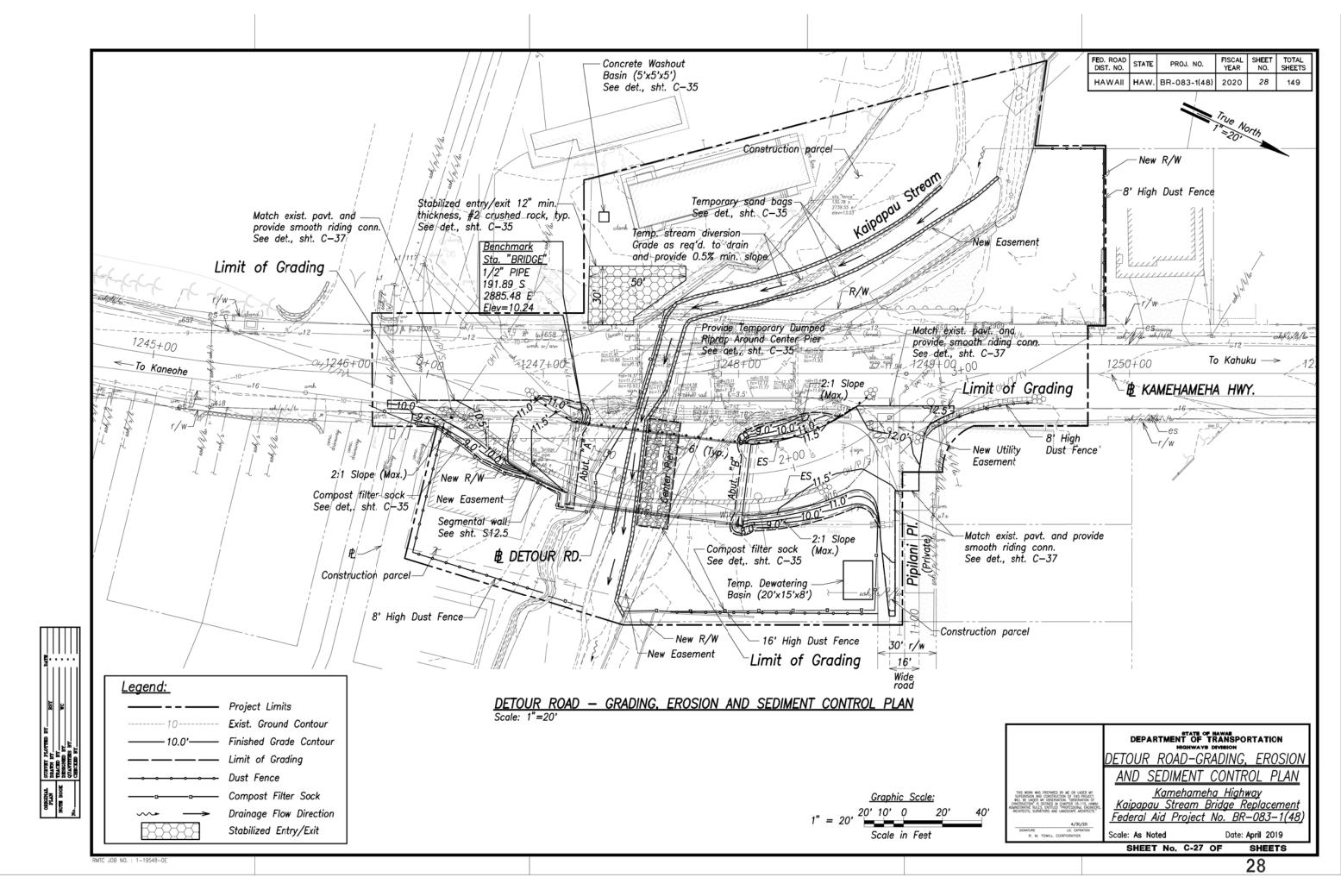
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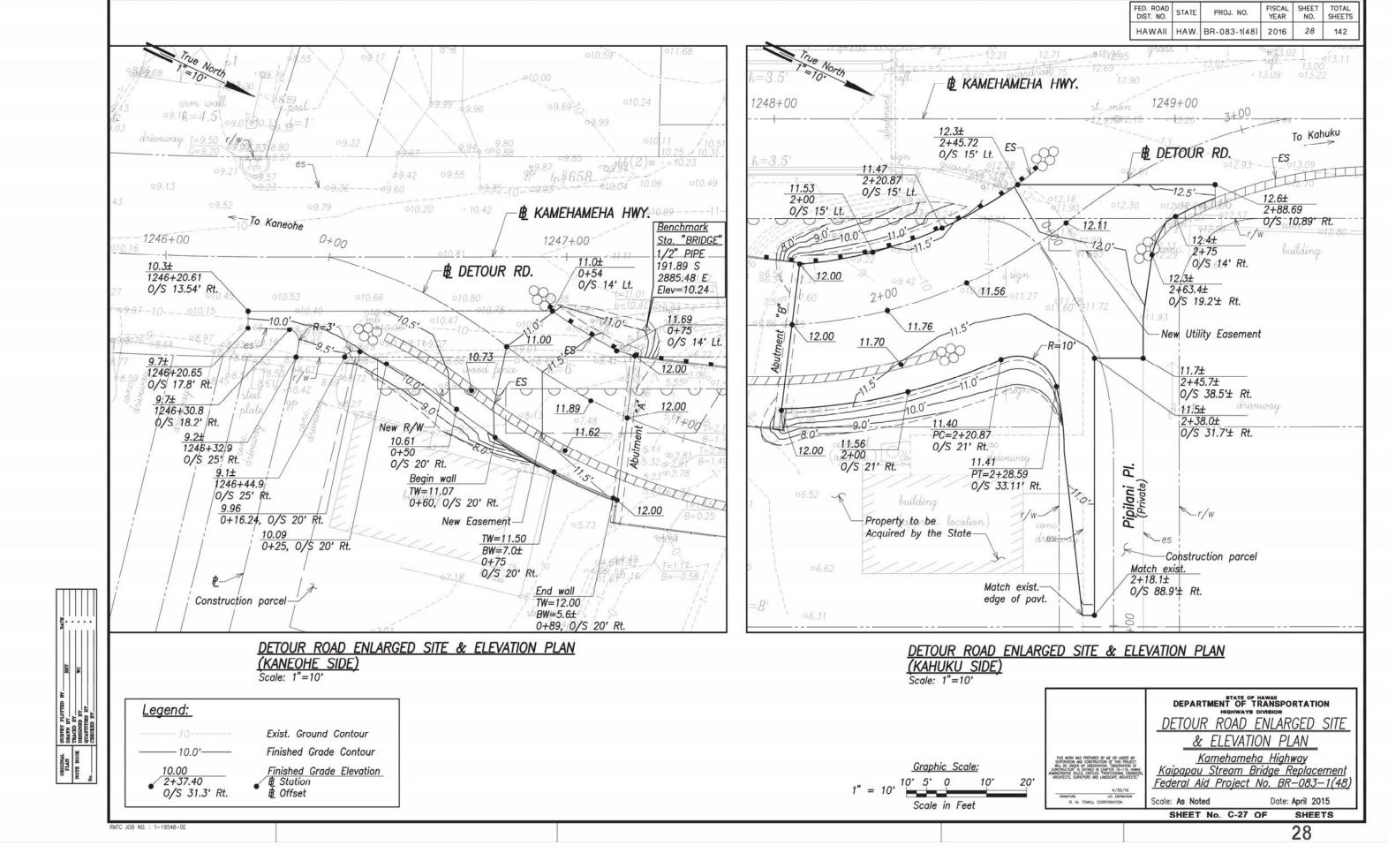


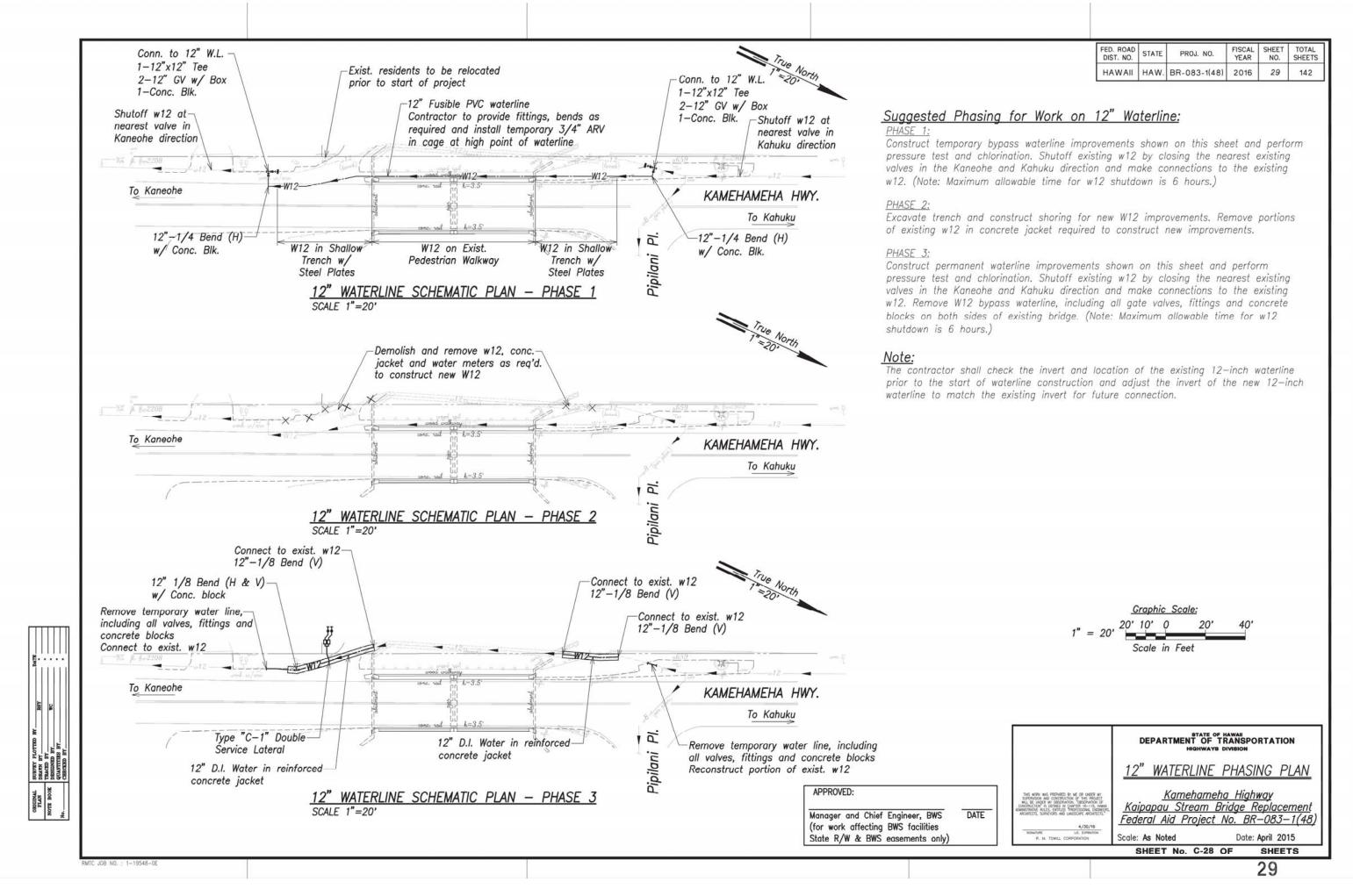


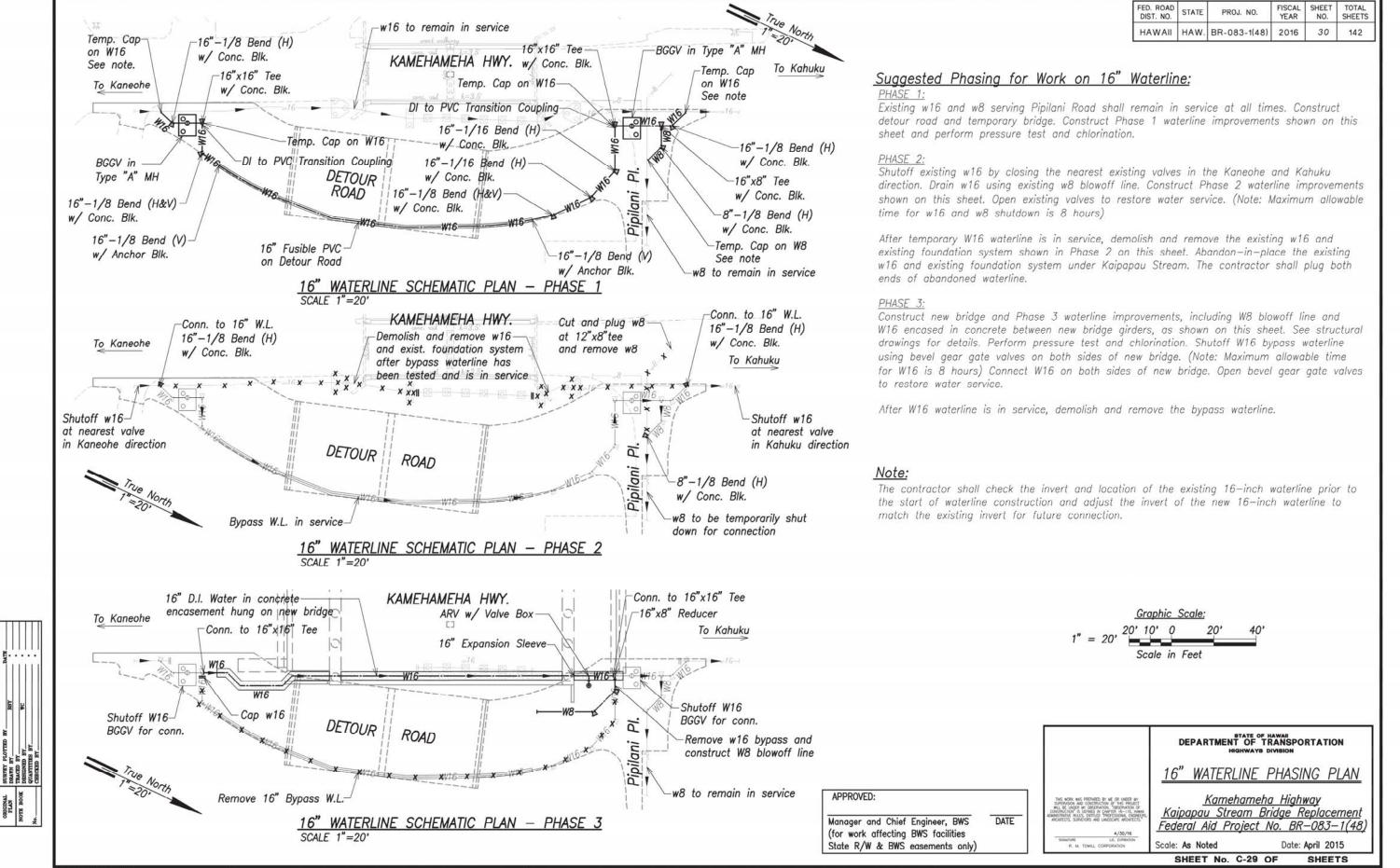


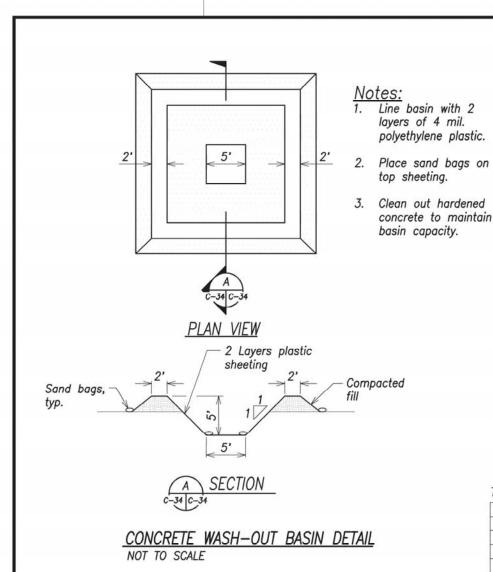


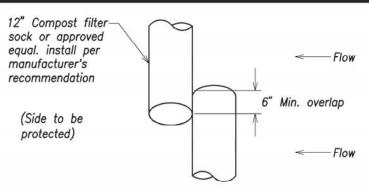


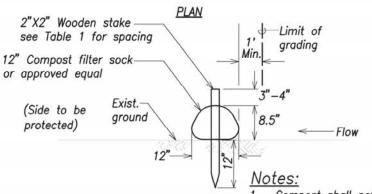








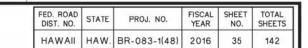


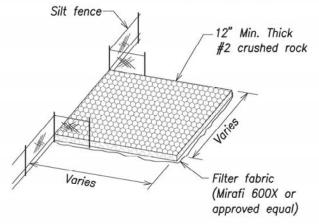


SECTION

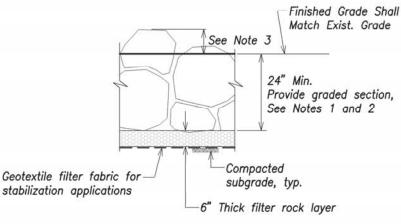
 Compost shall not contain biosolids and should be consistent with EPA guidelines as well as meet all local, state and federal quality requirements.

Contractor shall inspect compost filter socks when as required by the project SWPPP.





STABILIZED CONSTRUCTION ENTRANCE
Not To Scale



Notes

- Riprap shall be basalt rock and consist of 6"ø average stone size, 12"ø maximum stone size.
- 2. Riprap gradation:

 $D_{15} = 4$ "

 $D_{85} = 9"$ $D_{50} = 6"$

3. 6" Max. from highest adjacent rock finish top.

TEMPORARY DUMPED RIPRAP Not to Scale



DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION & SEDIMENT

CONTROL DETAILS

<u>Kamehameha Highway</u> <u>Kaipapau Stream Bridge Replacement</u> <u>Federal Aid Project No. BR-083-1(48)</u>

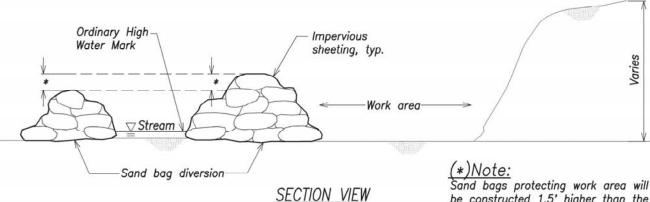
Scale: As Noted Date: April 2015

SHEET No. C-34 OF SHEETS

Table 1: Wooden stake anchor spacing

| Siope | Anchor spacing |
|--------------|----------------|
| < 4:1 | Not required |
| 4:1 to 3:1 | 10' O.C. |
| > 3:1 to 2:1 | 5' to 10' O.C. |
| > 2:1 | 5' O.C. |

COMPOST FILTER SOCK DETAIL NOT TO SCALE



SAND BAG DETAIL
Not To Scale

Sand bags protecting work area will be constructed 1.5' higher than the opposite side to allow overflow of stream away from work area during high rainfall events.

SURYEY PLOTTED
DRAIN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

To Kaneohe To Kahuku

110'-0"

5 8

CONSTRUCTION SEQUENCE

2'-10" Concrete

12

Barrier

STATE HAWAII HAW. BR-083-1(48) 2016 62

CONSTRUCTION SEQUENCE NOTES:

- 1. Order of construction sequence shall not be changed.
- 2. Each sequence stage shall be completely finished before proceeding to the next stage unless otherwise noted. The Engineer will be the sole judge of whether the sequence stage is complete, and may direct the Contractor to stop work on a sequence stage to complete work on the preceeding sequence stage.
- 3. Contractor shall submit overweight vehicular details for approval prior to their use.

LEGEND:

Phase 1 Stages

CONSTRUCTION SEQUENCE ELEVATION

Scale: 1/8" = 1'-0"

9

- Relocate existing utility lines.
- 2 Construct trial and load test shafts. Perform load test.

♠ Abutment No. 1

QuadGuard

18

- 3 Install detour road and temporary bridge.
- 4 Demolish existing bridge.

Approach Slab

14A

12 |

16

- 5 Construct precast girders. (May be done concurrently with Stages 1 through 4.)
- 6 Construct 4 ft diameter drilled shafts. Shaft numbers 1, 2, 3, 5, 6, 7.
- 7 Cast Phase 1 drilled shaft cap beams, girder seats, and corbels for concrete encased ducts at least 7 days after the final drilled shaft concrete pour in Stage 6 or until the concrete in Stage 6 has attained a compressive strength of 4,500 psi, whichever occurs later.
- 8 Erect Phase 1 precast girders at least 15 days after the concrete pour in Stage 7 or until the concrete in Stage 7 has attained a compressive strength of 5,000 psi, whichever occurs later. Place slush grout immediately prior to placement of precast girders.
- 9 Construct Phase 1 intermediate diaphragms.
- 10 Pour Phase 1 cast-in-place deck except areas over end beams and electrical duct encasement.
- 11 Pour Phase 1 corbel and end beams to top of precast girder at least 30 days after the concrete pour in Stage 10. The concrete pour shall occur between midnight and 3:00 AM (3 hour window).

Pour remainder of Phase 1 deck concrete a minimum of 24 hours after the concrete pour in Stage 11.

QuadGuard

18

Construct Phase 1 wing walls at least 8 days after the concrete pour in Stage 12 or after the concrete in Stage 12 has attained a compressive strength of 5,000 psi, whichever occurs

New Abutment Cap and

4'-0"\sqrt{Shafts}

- Backfill to Phase 1 limits and to bottom of approach slab at least 14 days after the concrete pour in Stage 13 or until the concrete in Stage 13 has attained a compressive strength of 5,000 psi, whichever occurs later. Maximum height difference of backfill between abutments shall not exceed 2 feet. Install concrete encased ducts behind abutments when backfill height is at the elevation of the bottom of the concrete encased electrical ducts. Continue backfilling after concrete for encased electrical ducts has attained its 28 day compressive strength.
- 14B Construct barrier wall.
- 15 Construct Phase 1 sleeper slabs.

¢ Abutment No. 2

- 16 Construct Phase 1 approach slabs.
- 17 Construct mauka aesthetic railing, concrete barrier and fence wall.
- 18 Install mauka quadguards.
- Install temporary barriers.



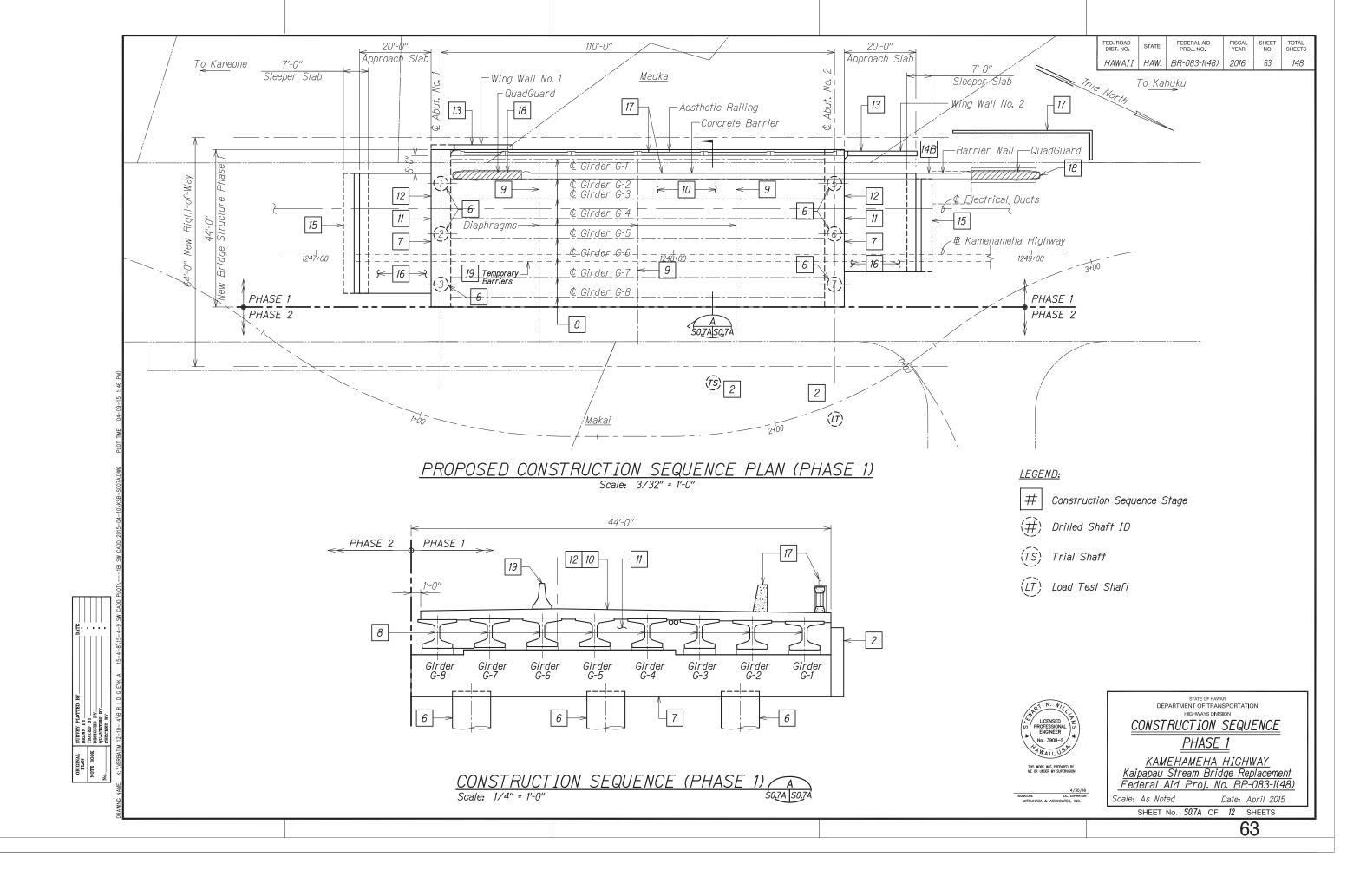
STATE OF HAWAPI
DEPARTMENT OF TRANSPORTATION CONSTRUCTION SEQUENCE PHASE 1

KAMEHAMEHA HIGHWAY Kaipapau Stream Bridge Replacement Federal Aid Proi. No. BR-083-1(48)

Scale: As Noted

Date: April 2015 SHEET No. SO.7 OF 12 SHEETS

SURVEY
DRAWN B
TRACED
DESIGNED
QUANTITIE



| | | KAIPAPAU STREAM BRIDGE | REPLAC | EMENT — | OVE | RALL | CONSTR | PUCTION | SEQU | 'JENC | CE | | | FE D |
|--|--------------|--|---|--|--|-------------------------------------|---|--|------------------------------|--------------|---------------------------|--|--|---------------|
| Struc Constru | ıction | Description | 0: " | | rences | | l a | Waterline Work | Exist Op | | Detour Open | Detour Off Peak Lane Closures | Remarks | |
| Sta Prior to Mobiliza for Dem | Site tion | Prior to Site Mobilization, the Contractor shall submit required BMP's and other Municipal and National permit applications as indicated in the project Plans, Special Provisions and Specifications. The Contractor shall submit Prefabricated Steel Beam Bridge Structural Computations and Erection drawings to the Owner for Review and Approval Prior to Fabrication. | Civil Civil Sequence See C-10. See Civil | Electrical | Geo | otech. | Structural Structural Sequence SO.7,SO.7A, SO.8,SO.8A | WOTK | Exist I Open I Traffic | Bridge to | Орен | Anticipated | | |
| | 1 | 1. Install approved BMP measures. 2. Relocate Existing overhead utility lines. 3. Install temporary 12" fusible PVC waterline on existing (upstream) pedestrian walkway. | C-15,16,17, C-20, C-28, see Civil 2 | E-8, E-9, E-10, E-11 | | | | Temporary 12" fusible PVC waterline | ę | | | | | |
| | 2 | 1. Construct Trial and Load Test shafts * 2. Perform Load Test. Demobilize drilled shaft equipment off site. | See Civil 3 | | Special equipm | | S1.1, S8.3 | | | | | | *Special Provisions Section 511 | |
| | 3 | Install Detour Pier, Abutments and Temporary Bridge. Construct Civil Phase 1 waterline Improvements C-29; C-30. Construct Detour Approach Retaining Wall, Fills and Roadway - chainlink fence see C-23. Construct Civil Phase 2 waterline improvements-see C-29; C-31. | See Civil 4 C-23, C-29, C-30, C-31, C-32 | E-10, E-11, E-15 | Excava Bracing Prov. | ation g-Spec. 205* | S12.1, S12.2 S12.3, S12.4 S12.5 | Civil Phase 1 & 2 (W16) waterline work—see C-29, C-30. | | | Detour Open to Traffic | | *Excavation Bracing anticipated upstream of detour. | |
| | 4 | 1. Relocate existing water line W12 (prior to existing bridge demolition) – see C-20, C-28. 2. Demolish existing bridge. | See Civil 5 C-20, C-28 | | Excava Bracing Prov. 2 | ntion g-Spec. 205* | S2.1, S2.2 | Relocate Exist W12 waterline C-20, C-28. | | | | | *Exc. Bracing upstream of existing. | |
| | 5 | Construct precast girders. (May be done concurrently with stages 1 through 4.) | See Civil 6 | | | | S4.x series | | | | | | | |
| | 6 | Construct 4 ft. diameter drilled shafts. 1, 2, 3, 5, 6, 7. * | | | Special equipm | drilling ent* | <i>S1.1,S1.2,S6.1, S6.2,S8.1,S8.2</i> | | | | | | *Special Provision Section 511 | วทร |
| | 7 | Cast phase 1 drilled shaft cap beams, girder seats, and corbels for concrete encased ducts at least 7 days after the final drilled shaft concrete pour in stage 6 or until the concrete in stage 6 has attained a compressive strength of 4,500 psi, whichever occurs later. | | | Structu Excava Bracing Spec F | ire – ition g per Prov 205 | S0.7, S0.7A, S6.x series | | | | | | Marks 7 through 18 are PHASE 1 Structural see for PHASE 2 | h 1. 20 |
| | 8 | Erect phase 1 precast girders at least 15 days after the concrete pour in stage 7 or until the concrete in stage 7 has attained a compressive strength of 5,000 psi, whichever occurs later. Place slush grout immediately prior to placement of precast girders. | | | Require Makai I | | S0.7, S0.7A, S1.2, S1.3, S6., series | * | | | | | | |
| | 9 | Construct phase 1 intermediate diaphragms. | | | | | SO.7,SO.7A, S5.x series | | | | | | | |
| | 10 | Pour phase 1 cast-in-place deck except areas over end beams and duct encasement. | | | | | S0.7,S0.7A S1.6,S3.1,S3.2 | | | | | | | |
| 1 | 11 | Pour phase 1 end beams to top of precast girder and corbel at least 30 days after the concrete pour in Stage 10. The concrete pour shall occur between midnight and 3:00 AM (3 hours). | | | | | S0.7,S0.7A, S6.x series | | | | | | Concrete Placement At Night | |
| PHASE | 12 | Pour remainder of phase 1 deck concrete a minimum of 24 hours after the concrete pour in stage 11. | | | | | \downarrow | | | | | | | |
| 247 | 13 | Construct phase 1 wing walls at least 8 days after the concrete pour in stage 12 or after the concrete in stage 12 has attained a compressive strength of 5,000 psi, whichever occurs later. | | | | | S0.7,S0.7A, S7.x series | | | | | Lane Closure Duration Approx 3 weeks | , | |
| 131 | 14 | Backfill to phase 1 limits and to bottom of approach slab and at least 14 days after the concrete pour in Stage 13 or until the concrete in Stage 13 has attained a compressive strength of 5,000 psi, whichever occurs later. Maximum height difference of backfill between abutments shall not exceed 2 feet. Install concrete encased ducts when backfill height is at the elevation of bottom of concrete encased ducts. Continue backfilling after concrete for encased ducts has attained its 28 day compressive strength. | | Signal Corps Work E-1, E-5 E-12, E-13, E-16 | 7 | | \$0.7,\$0.7A,\$6.x \$9.x | | | | | each abutment with Further Lane Closure Duration Approx 2 weeks each approach | | |
| | 15 | Construct phase 1 sleeper slabs. | | | | | | | | | | | | |
| | 16 | Construct phase 1 approach slabs. | | Signal Corps Work E-1, E-5 E-12,E-13,E-1 | | | | | | | | \ | | |
| | 17 | Construct mauka aesthetic railings and concrete barrier. | | | | | | | | | | | | |
| | 18 | Install mauka quadguards. | | | | | | | | | | | | |
| | 19 | Install Temporary Barriers and Temporary Striping on PHASE I of New Bridge. | See Civil for Barriers | , | | | | | | | | | RT N. W// | |

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|------------------------|-------|--------------|----------------|--------------|-----------------|
| HAWAII | HAW. | BR-083-1(48) | 2016 | 64 | 148 |

CONSTRUCTION SEQUENCE NOTES:

- Order of construction sequence shall not be changed unless authorized in writing by the Engineer.
- 2. Each sequence stage shall be completely finished before proceeding to the next stage unless otherwise noted. The Engineer will be the sole judge of whether the sequence stage is complete, and may direct the Contractor to stop work on a sequence stage to complete work on the preceeding sequence stage.
- 3. Contractor shall submit overweight vehicular details for approval prior to their use.
- 4. Construction shall be conducted such that no construction debris, wash water or other contaminants shall enter the Stream Waters.
- 5. Closing of the Prefabricated Steel Beam Bridge Structure:
 - (a) If for any reason or at any time, the Prefabricated Beam Bridge Structure's ability to safely carry traffic is in question, the Contractor shall be responsible for immediately taking the actions necessary to protect the public by closing, repairing and reopening the Prefabricated Steel Truss Bridge.

 When the Contractor closes the
 - (b) Prefabricated Steel Beam Bridge Structure, the Contractor shall immediately notify the Engineer and the appropriate Law Enforcement Agency. Closing of the Prefabricated Steel Beam
 - (c) Bridge shall be included as incidental to Maintenance of Traffic Control.
- 6. The Contractor shall phase 16 inch waterline (W16) to allow no more than 8 hours of down time. Liquidated Damages of \$100,000 per day will be imposed if the Contractor exceeds the 8 hour restriction.

LICENSED PROFESSIONAL OF ENGINEER No. 3908-S HOME WE PREPRISED BY ME OR UNDER MY SUPERISEON

4/30/16
SIGNATURE LIC. EXPIRATION
MITSUNAGA & ASSOCIATES, INC.

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

OVERALL CONSTRUCTION SEQUENCE

STRUCTURAL PHASE 1

<u>Kamehameha Highway</u> <u>Kaipapau Stream Bridge Replacement</u> <u>Federal Aid Project No. BR-083-1(48)</u>

Scale: AS NOTED

Date: April 2015

SHEET No. **S0.7B** OF **12** SHEETS **64**

To Kahuku

♠ Abutment No. 2 ♠ Abutment No. 1 Approach Slab 110'-0" 2'-10" Concrete Barrier (24)(28) QuadGuard (24)(28) *{25}*{*29*} (36) (26)(30) New Abutment Cap and 4'-0"\sqrt{Shafts}

CONSTRUCTION SEQUENCE

CONSTRUCTION SEQUENCE NOTES:

QuadGuard

(36)

- 1. Order of construction sequence shall not be changed.
- 2. Each sequence stage shall be completely finished before proceeding to the next stage unless otherwise noted. The Engineer will be the sole judge of whether the sequence stage is complete, and may direct the Contractor to stop work on a sequence stage to complete work on the preceeding sequence stage.
- 3. Contractor shall submit overweight vehicular details for approval prior to their use.

LEGEND:

Phase 2 Stages

To Kaneohe

CONSTRUCTION SEQUENCE ELEVATION

- Partially remove temporary bridge as required to construct Phase 2 of Kaipapau Stream Bridge
- Construct 4 ft diameter shafts Shaft nos. 4 and 8.
- Cast Phase 2 drilled shaft cap beams, girder seats, and corbels for concrete jacketed waterline at least 7 days after the final drilled shaft concrete pour in Stage 21 or until the concrete in Stage 21 has attained a compressive strength of 4,500 psi, whichever occurs later.
- Erect Phase 2 precast girders at least 15 days after the concrete pour in Stage 22 or until the concrete in Stage 22 has attained a compressive strength of 5,000 psi, whichever occurs later. Place slush grout immediately prior to placement of precast girders.
- Construct Phase 2 intermediate diaphragms between girders G-9 and G-10, install dowels connecting G-10 and G-11, and install W16 with light-weight concrete jacket between girders G-10 and G-11.
- Pour Phase 2 cast-in-place deck except areas over end beams and closure pour.
- Pour Phase 2 corbel and end beams (except at closure pour) to top of precast girder at least 30 days after the concrete pour in Stage 25. The concrete pour shall occur between midnight and 3:00 AM (3 hour window).
- Pour remainder of Phase 2 deck concrete (except at closure pour) a minimum of 24 hours after the concrete pour in Stage 26.
- Pour Phase 2 intermediate diaphragms between girders G-8 and G-9 at least 4 days after the concrete pour in Stage 27.

- Pour Phase 2 cast-in-place deck closure except over end beams. Material for cast-in-place deck closure pour shall be VESLMC. (See Special Provisions).
- Pour Phase 2 corbel and end beam closure from top of drilled shaft cap beam to top of deck. Material for end beam closure pour shall be VESLMC. (See Special Provisions).
- Construct Phase 2 wind walls at least 8 days after the concrete pour in Stage 30 or after the concrete in Stage 30 has attained a compressive strength of 5,000 psi, whichever occurs later.
- Backfill to bottom of approach slab at least 14 days after the concrete pour in Stage 31 or until the concrete in stage 31 has attained a compressive strength of 5,000 psi, whichever occurs later. Maximum height difference of backfill between abutments shall not exceed 2 feet. Install jacketed waterline behind abutments when backfill height is at the elevation of the bottom of the jacketed waterline. Continue backfilling after concrete for jacketed waterline has attained its 28 day compressive strength.
- Construct Barrier Wall.
- Construct Phase 2 sleeper slabs.
- $\langle 34 \rangle$ Construct Phase 2 approach slabs.
- Constuct Makai aesthetic railing and concrete barrier.
- (36) Install Makai quadquards.
- Remove remainder of temporary bridge.



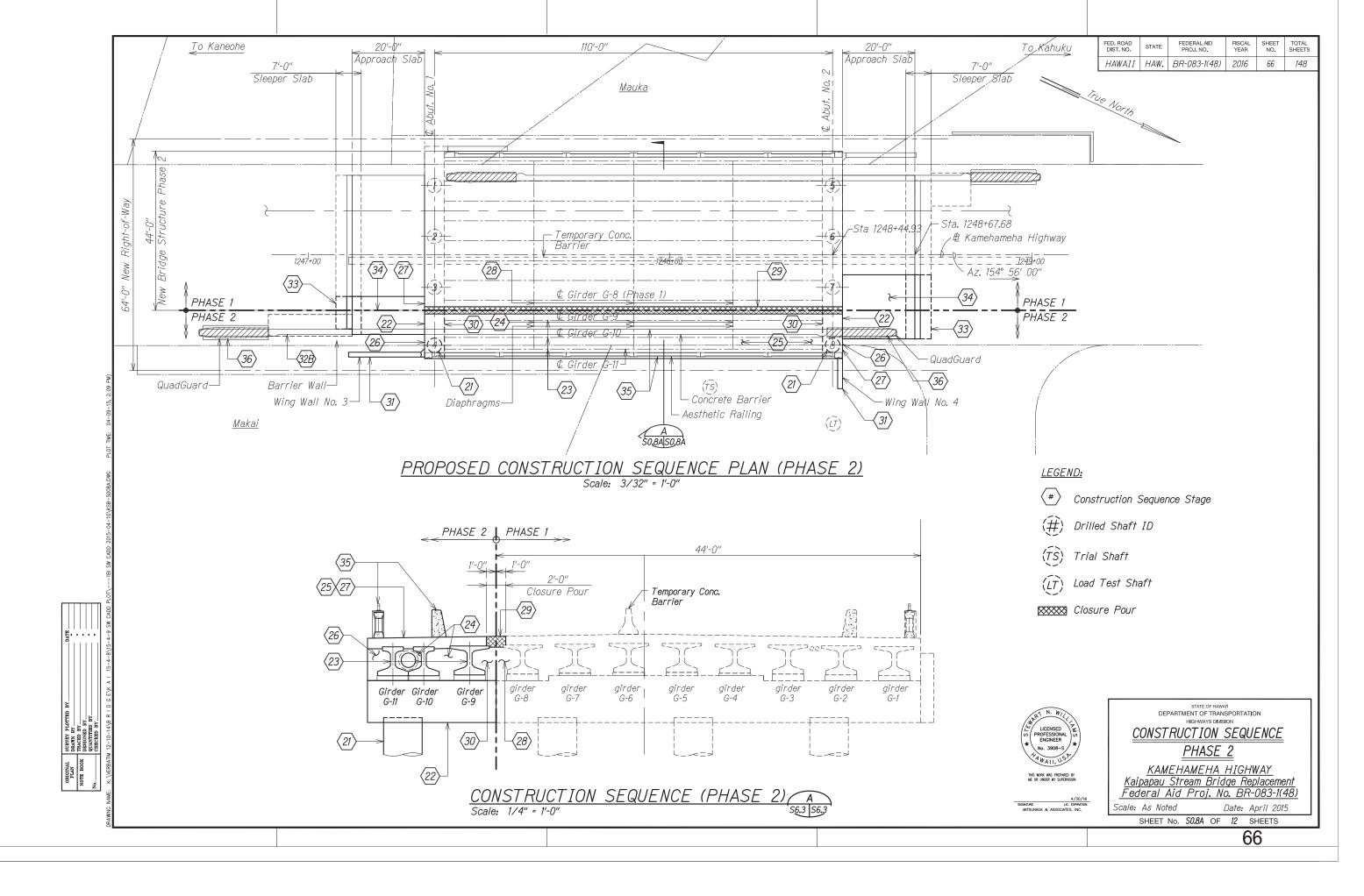
STATE OF HAWAPI
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION SEQUENCE PHASE 2

KAMEHAMEHA HIGHWAY Kaipapau Stream Bridge Replacement Federal Aid Proi. No. BR-083-1(48)

Scale: As Noted

Date: April 2015 SHEET No. SO.8 OF 12 SHEETS



| | | KAIPAPAU STREAM BRIDGE | REPLACI | EMENT — | OVER | PALL | CONSTR | UCTION | SEQU | JENO | CE | | | | FI | | | |
|-------------------|-------------|---|---------------------|---|---|---------------------------------|--|--|----------------------------------|---------------------------|----------------------------------|---|-------------------------------------|--|----|--|---|--|
| Struc. Constru | ction | Description | Civil | | rences | 4 | Cttt | Waterline Work | Exist Op | | Detour Open | Detour (Lane Cl | osures | Remarks | | | | |
| Stage 20 | | 1. Open PHASE I of New Bridge to traffic. Close Temporary Bridge and Detour Roadway to traffic. 2. Remove Mauka portion of Temporary Bridge Only (Remainder to remain in place to support construction equipment for construction of PHASE 2 portion of New Bridge and to support temporary W16 until Final W16 is constructed). | | Electrical | Electrical | Electrical | Liectricus | Geot | есп. | Structural S0.8, S0.8A | non. | PHASE New Bi Open to Traffic allow L Closure | l of ridge to to Detour | Close Detour and Remove Limited Portion of Temporary Bridge | | | Close Detour; Open PHASE 1 of New Bridge: Start Construction of PHASE 2 of New Bridge | |
| | 21> | Construct 4 ft. diameter drilled shafts - Shaft nos. 4 and 8. | See Civil 6 | | Special de equipment | drilling nt* | S1.1, S1.2, S6.1 S6.2, S8.1, S8.2 | , | | | Detour Close | d | | *Special Provisions Section 511 | | | | |
| 4 | <i>22</i> > | Cast Phase 2 drilled shaft cap beams, girder seats, and corbels for concrete jacketed waterline at least 7 days after the final drilled shaft concrete pour in stage 21 or until the concrete in stage 21 has attained a compressive strength of 4,500 psi, whichever occurs later. | | | Structure Excavation Bracing Spec for Required Approach | e on per - 205 I at | S0.8, S0.8A, S6.x series | | | | | | | Special Provisions Section 205 | | | | |
| (| | Erect Phase 2 precast girders at least 15 days after the concrete pour in stage 22 or until the concrete in stage 22 has attained a compressive strength of 5,000 psi, whichever occurs later. Place slush grout immediately prior to placement of precast girders. | | | · | | S0.8, S0.8A, S1.2, S1.3, S6.x series | Civil Phase 3 (W16) waterline improvements seeC-29,C32 | | | | | | | | | | |
| (| 24> | Construct Phase 2 intermediate diaphragms between girders G-9 and G-10 and light-weight W16 concrete jacket between girders G-10 and G-11. | C-29, C-30 | | | | S0.8,S0.8A, S5.x series | | | | | | | | | | | |
| 4 | 25 | Pour Phase 2 cast-in-place deck except areas over end beams and closure pour. | | | | | S0.8,S0.8A S1.6,S3.1,S3.2 | | | | | | | | | | | |
| 2 | <i>26</i> > | Pour Phase 2 end beams (except at closure pour) to top of precast girder and corbel at least 30 days after the concrete pour in Stage 25. The concrete pour shall occur between midnight and 3:00 AM (3 hours). | | | | | S0.8,S0.8A, S6.x series | | | | | | | Concrete Placement At Night | | | | |
| PHASE | 27 | Pour remainder of Phase 2 deck concrete (except at closure pour) a minimum of 24 hours after the concrete pour in stage 25. | | | | | | | | | | | | | | | | |
| - 1 | <i>28</i> > | Pour Phase 2 intermediate diaphragms between girders G-8 and G-9 at least 4 days after the concrete pour in stage 27. | | | | | | | | | | | | | | | | |
| STRUCTURAL | <i>29</i> > | Pour Phase 2 cast-in-place deck closure except over end beams. Material for cast-in-place deck closure pour shall be VESLMC. | | | | | | | | | | | | | | | | |
| | <i>30</i> > | Pour Phase 2 end beams closure from top of drilled shaft cap beam to top of deck. Material for end beam closure pour shall be VESLMC. | | | | | | | | | | | | | | | | |
| | <i>31</i> | Construct Phase 2 wing walls at least 8 days after the concrete pour in stage 30 or after the concrete in stage 30 has attained a compressive strength of 5,000 psi, whichever occurs later. | | | | | S0.8,S0.8A, S7.x series | | | | | | | | | | | |
| (| | Backfill to bottom of approach slab at least 14 days after the concrete pour in Stage 31 or until the concrete in Stage 31 has attained a compressive strength of 5,000 psi, whichever occurs later. Maximum height difference of backfill between abutments shall not exceed 2 feet. Install jacketed waterline when backfill height is at the elevation of bottom of the jacketed waterline. Continue backfilling after concrete for jacketed waterline has attained its 28 day compressive strength. | | | | , | S0.8,S0.8A,S6.x S9.x | | | | | | | | | | | |
| (| <i>33</i> | Construct Phase 2 sleeper slabs. | | | | | | | | | | | | | 1 | | | |
| (| <i>34</i> | Construct Phase 2 approach slabs. | | | | | | | | | | | | | | | | |
| (| <i>35</i> | Construct Makai aesthetic railings and concrete barrier. | | | | | * | | | | | | | | | | | |
| | 76 | Install Makai guadguards. Remove Detour; construct stream hardening. Remove Temporary Barriers at New Bridge. Open Phase 1 and Phase 2 of New Bridge to traffic. | See Civil 7 thru 12 | Permanent Electrical Plan See E-12,E-13 E-14 | | | | Remove temp W16 at Closed Detour | PHASE PHASE New Bi Open | 2 of | Remove Remainder of Detour | | _ | | | | | |

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|------------------------|-------|--------------|----------------|--------------|-----------------|
| HAWAII | HAW. | BR-083-1(48) | 2016 | 67 | 148 |

CONSTRUCTION SEQUENCE NOTES:

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- 2. Each sequence stage shall be completely finished before proceeding to the next stage unless otherwise noted. The Engineer will be the sole judge of whether the sequence stage is complete, and may direct the Contractor to stop work on a sequence stage to complete work on the preceeding sequence stage.
- 3. Contractor shall submit overweight vehicular details for approval prior to their use.
- 4. Construction shall be conducted such that no construction debris, wash water or other contaminants shall enter the Stream Waters.
- 5. Closing of the Prefabricated Steel Beam Bridge Structure:
 - (a) If for any reason or at any time, the Prefabricated Beam Bridge Structure's ability to safely carry traffic is in question, the Contractor shall be responsible for immediately taking the actions necessary to protect the public by closing, repairing and reopening the Prefabricated Steel Truss Bridge.
 - (b) When the Contractor closes the Prefabricated Steel Beam Bridge Structure, the Contractor shall immediately notify the Engineer and the appropriate Law Enforcement Agency.
 - (c) Closing of the Prefabricated Steel Beam Bridge shall be included as incidental to Maintenance of Traffic Control.
- 6. The Contractor shall phase 16 inch waterline (W16) to allow no more than 8 hours of down time. Liquidated Damages of \$100,000 per day will be imposed if the Contractor exceeds the 8 hour restriction.

No. 3908-S THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DEPARTMENT OF TRANSPORTATION

OVERALL CONSTRUCTION SEQUENCE

STRUCTURAL PHASE 2

<u>Kamehameha Highway</u> Kaipapau Stream Bridge Replacement Federal Aid Project No. BR-083-1(48)

Scale: AS NOTED

Date: April 2015

4/30/16

SIGNATURE LIC. EXPIRATION
MITSUNAGA & ASSOCIATES, INC.

SHEET No. **SO.8B** OF **12** SHEETS

RMTC JOB NO.: 1-19548-0E