

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(48)	2021	33	161

Suggested Phasing for Work on 16" Waterline:

PHASE 1:  
Existing w16 and w8 serving Pipilani Road shall remain in service at all times. Construct detour road and temporary bridge. Construct Phase 1 waterline improvements shown on this sheet and perform pressure test and chlorination (See note 1).

PHASE 2:  
Contractor shall coordinate with BWS personnel for the shutdown of the 16" waterline in the Kaneohe and Kahuku direction. The Contractor shall be responsible for providing advanced notification to all users affected by the waterline shutdown. Drain w16 using existing w8 blowoff line. Construct Phase 2 waterline improvements shown on this sheet. (Note: Maximum allowable time for w16 and w8 shutdown is 8 hours)

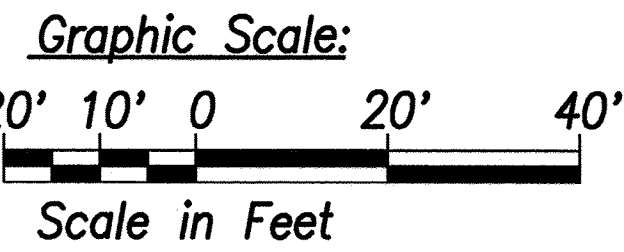
After temporary W16 waterline is in service, demolish and remove the existing w16 and existing foundation system shown in Phase 2 on this sheet. Backfill to the abandoned waterline. Abandon-in-place the existing w16 and existing foundation system under Kaipapau Stream. The contractor shall plug both ends of abandoned waterline and fill with flowable grout or CLSM.

PHASE 3:  
Construct new bridge and Phase 3 waterline improvements, including W8 blowoff line and W16 hung on the bridge with pipe supports, as shown on this sheet. See structural drawings for details. Perform pressure test and chlorination. Contractor shall coordinate with BWS personnel for the shutdown of the W16 bypass waterline. The Contractor shall be responsible for providing advanced notification to all users affected by the waterline shutdown. (Note: Maximum allowable down time for W16 is 8 hours) Connect W16 on both sides of new bridge.

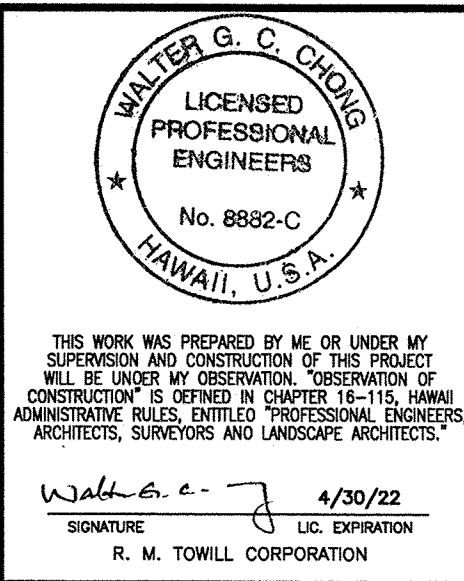
After W16 waterline is in service, demolish and remove the bypass waterline.

Notes:

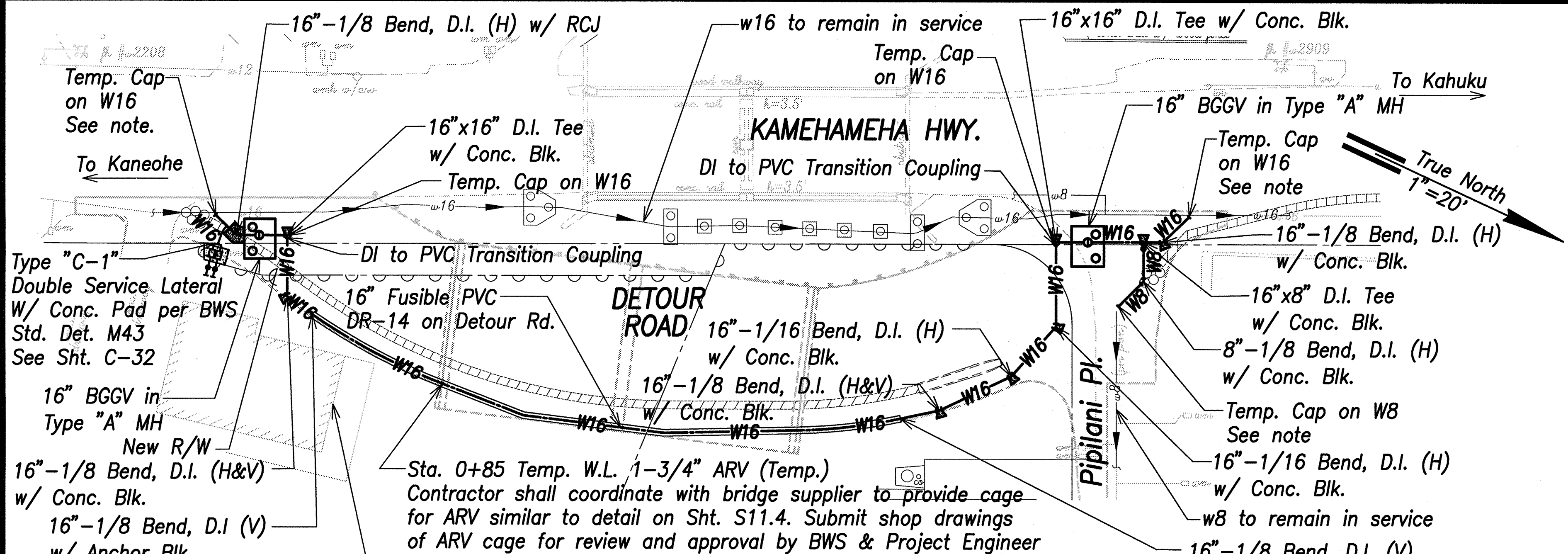
1. Connection of the temporary 16" waterline to the existing 16" waterline cannot begin until after the permanent 12" waterline has been pressure tested, accepted by BWS and placed into service and the temporary 12" waterline has been removed. The contractor shall verify the invert and location of the existing 16-inch waterline prior to the start of waterline construction and adjust the invert of the new 16-inch waterline to match the existing invert for future connection.
2. The contractor shall be responsible for anchoring the portion of fusible PVC waterline that will be located above ground. Contractor shall be responsible for protecting and maintaining temporary waterline for the entire time it is in service (estimated to be 20 months). Contractor shall submit shop drawings of temporary w16 waterline restraints before starting construction. All work shall be considered incidental to the various items of work.
3. Exposed ductile iron waterline and ductile iron fittings shall be coated with an approved bitumastic paint.
4. See Sht. C-26 for sections showing temporary 16" waterline on detour road.



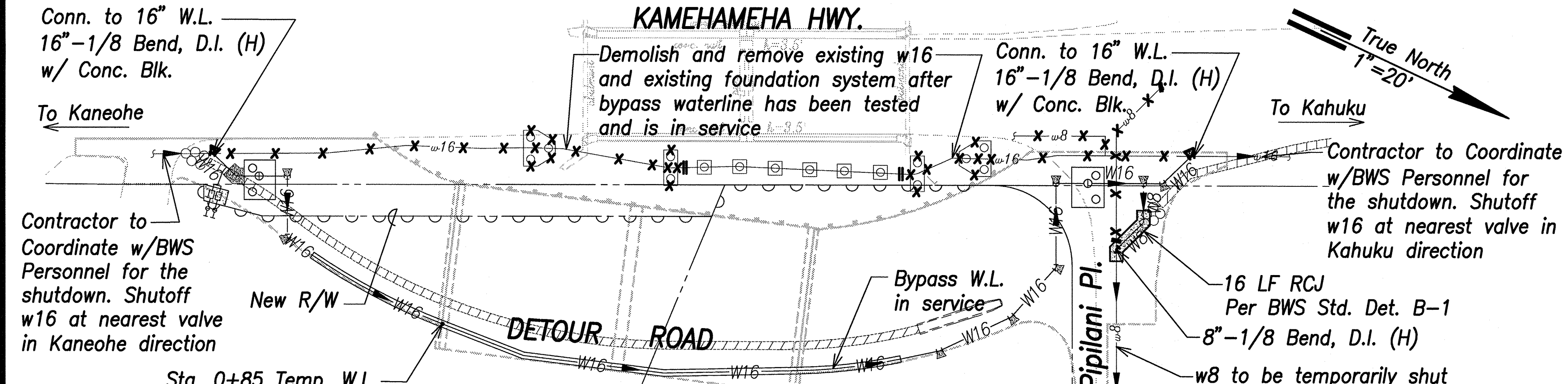
APPROVED: [Signature] MAY 24 2021  
Manager and Chief Engineer, BWS  
(for work affecting BWS facilities  
State R/W & BWS easements only)



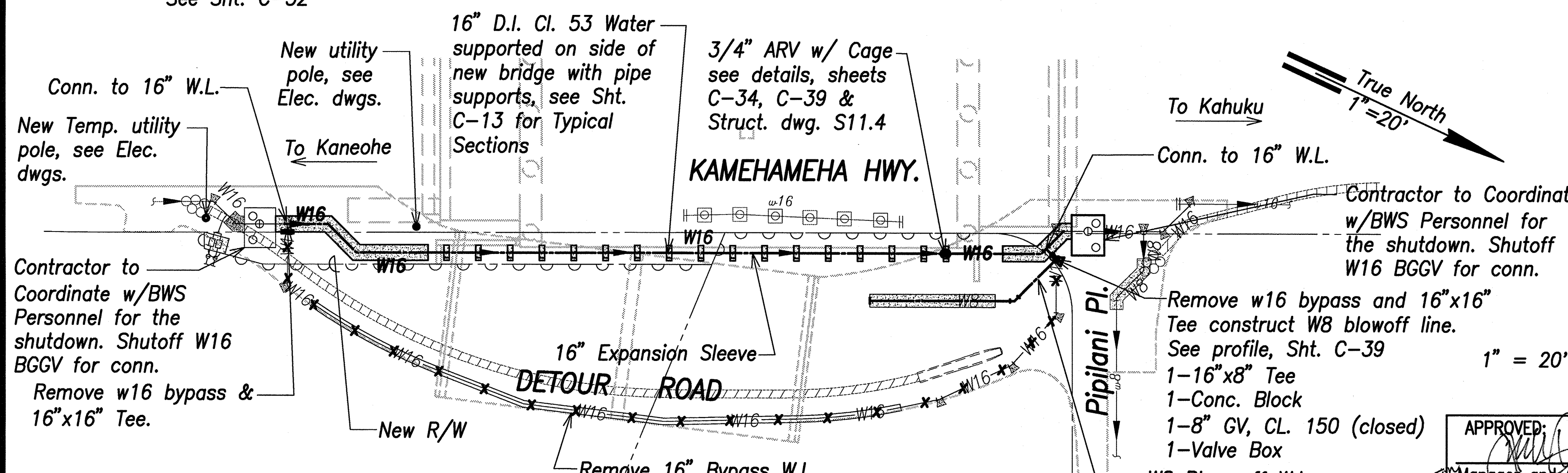
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**16-INCH WATERLINE  
PHASING PLAN**  
Kamehameha Highway  
Kaipapau Stream Bridge Replacement  
Federal Aid Project No. BR-083-1(48)  
Scale: As Noted Date: February 2021



16" WATERLINE SCHEMATIC PLAN - PHASE 1  
SCALE 1"=20'



16" WATERLINE SCHEMATIC PLAN - PHASE 2  
SCALE 1"=20'



16" WATERLINE SCHEMATIC PLAN - PHASE 3  
SCALE 1"=20'

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTED BY	
QUANTITIES BY	
ORIGINAL PLAN	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	