

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-063-1(023)	2015	ADD. 4	111

PAVING AROUND MANHOLES

1. The Contractor shall first lower manholes more than 4" prior to cold planing. The work shall be considered incidental to the various paving contract items. Upon final paving, the manhole shall be raised and paid under the various contract items pertaining to manhole adjustments.
2. The Contractor shall place hot asphalt concrete around manholes and compact properly with a vibrating plate compactor.
3. If a plate compactor is not used, the Contractor shall use a pneumatic roller to roll the area around the manhole.
4. The Contractor shall fog seal or brush emulsion seal on the material placed as backfill on the area around the manhole that was not compacted by the roller. Black sand shall be used to blot out the area if the fog is too heavy.

HAWAII ONE CALL CENTER

1. Before conducting any excavation in the public right of way or on private property, the Contractor shall call the Hawaii One Call Center at least five (5) working days before digging. Be sure to give the address and location of the nearest cross street(s) near the digging site.  
  
Call 811 toll-free 24 hours a day.  
For more information, go to [www.callbeforeyoudig.org](http://www.callbeforeyoudig.org)
2. The Hawaii One Call Center will contact all utility companies to tone, mark, or identify the location of their underground utilities for free. Mark the area to excavate in White and label all of the other utilities as listed below.

- |        |   |
|--------|---|
| RED    | Electric power lines, cables, or conduits, and lighting cables.           |
| YELLOW | Gas, oil steam, petroleum or other hazardous liquid or gaseous materials. |
| ORANGE | Communications, cable TV, alarm or signal lines, cables, or conduits.     |
| BLUE   | Water, irrigation, and slurry lines.                                      |
| GREEN  | Sewers, storm sewer facilities or other drain lines.                      |
| WHITE  | Proposed excavation   |
| PINK   | Temporary survey markings.  |
| PURPLE | Reclaimed water, irrigation and slurry lines.                             |

LEGEND

- |  |  |  |                                     |
|--|--|--|-------------------------------------|
|  | Concrete Areas                             |  | Existing Sewer Line                 |
|  | 11" Reconstruction Areas                   |  | New 12" Sewer Line                  |
|  | 9 1/2" Reconstruction Areas                |  | Existing Sewer Manhole              |
|  | 11 1/2" Reconstruction Areas w/Paving Grid |  | Adjusted Sewer MH Frame/Cover       |
|  | 15 1/2" Reconstruction Areas w/Paving Grid |  | New Sewer Manhole                   |
|  | 5 1/2" Reconstruction Areas w/Paving Grid  |  | Existing 6" Gas Line                |
|  | 25 1/2" Reconstruction Areas w/Paving Grid |  | New 6" Gas Line                     |
|  | 29 1/2" Reconstruction Areas w/Paving Grid |  | Existing Gas Valve Box              |
|  | 19 1/2" Reconstruction Areas w/Paving Grid |  | Adjusted Gas Valve Box              |
|  | Resurfacing Limits                         |  | Existing Gas Manhole                |
|  | Existing Electrical Line                   |  | Adjusted Gas MH Frame/Cover         |
|  | New Electrical Line                        |  | Existing Monument                   |
|  | Existing Joint Pole                        |  | Adjusted Monument                   |
|  | Existing Power Pole                        |  | Existing 24" Drain Line             |
|  | Existing Electric Manhole                  |  | New 24 " RCP Drain Line             |
|  | Adjusted Elec. MH Frame/Cover              |  | Existing Storm Drain Manhole        |
|  | Existing Electric Box                      |  | Adjusted Storm Drain MH Frame/Cover |
|  | Existing Telephone Line                    |  | New Storm Drain Manhole             |
|  | New Telephone Line                         |  | Existing Grated Drop Inlet          |
|  | Existing Telephone Pole                    |  | Existing Catch Basin                |
|  | Existing Telephone Manhole                 |  | Existing Traffic Sign               |
|  | Adjusted Tele. MH Frame/Cover              |  | Existing Highway Lighting Standard  |
|  | Existing Signal Corps Line                 |  | Existing Highway Lighting Pullbox   |
|  | New Signal Corps Line                      |  | Existing Traffic Signal Pole        |
|  | Existing Signal Corps Manhole              |  | Existing Traffic Signal             |
|  | Existing TV Cable                          |  | New Traffic Signal Pole             |
|  | New TV Cable                               |  | Existing Traffic Signal Pullbox     |
|  | Existing Sandwich Isles Communication Line |  | Existing Traffic Signal Pullbox     |
|  | Existing 12" Water Line                    |  | Adjusted Traffic Signal Pullbox     |
|  | Existing Water Manhole                     |  | New Traffic Signal Pullbox          |
|  | Adjusted Water MH Frame/Cover              |  | Existing Metal Guardrail            |
|  | Existing Water Air Valve                   |  | New Metal Guardrail                 |
|  | Adjusted Water Air Valve                   |  | Existing Chain Link Fence           |
|  | New Water Air Valve                        |  | New Chain Link Fence                |
|  | Existing Water Valve Box                   |  | Existing Water Meter                |
|  | Adjusted Water Valve Box                   |  | Adjusted Water Meter                |
|  |  |  | Existing Fire Hydrant               |

	11/3/15	Revised Reconstruction Areas.
DATE	REVISION	

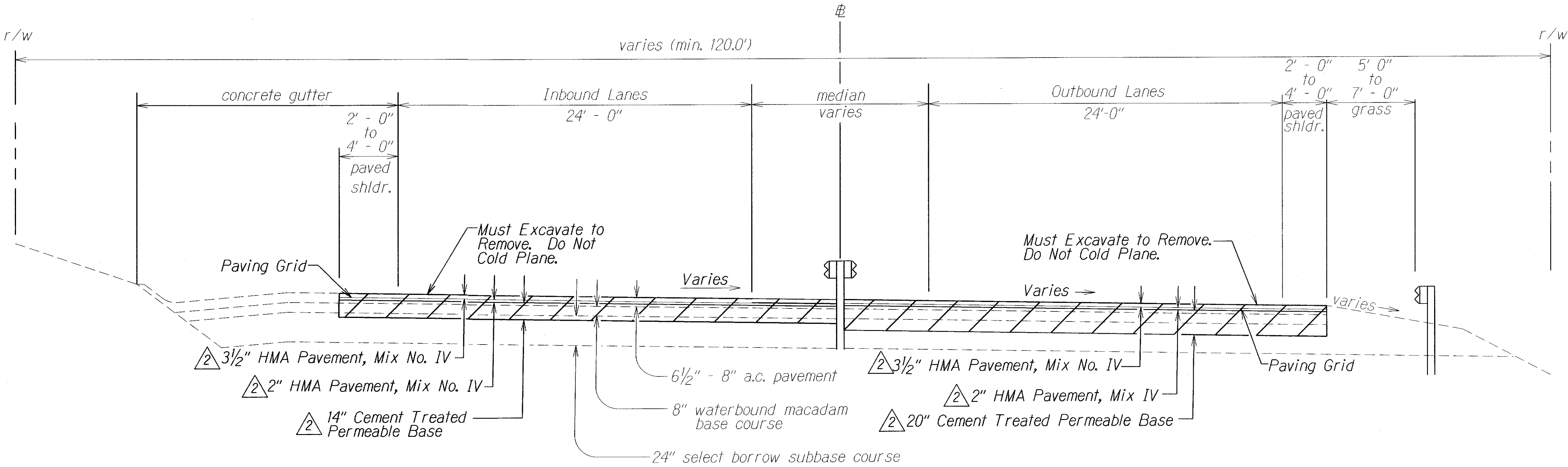
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

LIKELIKE HIGHWAY RESURFACING  
School Street to Emmeline Place  
Federal Aid Project No. NH-063-1(023)  
Date: Sept., 2015

SHEET No. 2 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-063-11(023)	2015	ADD. 14	111



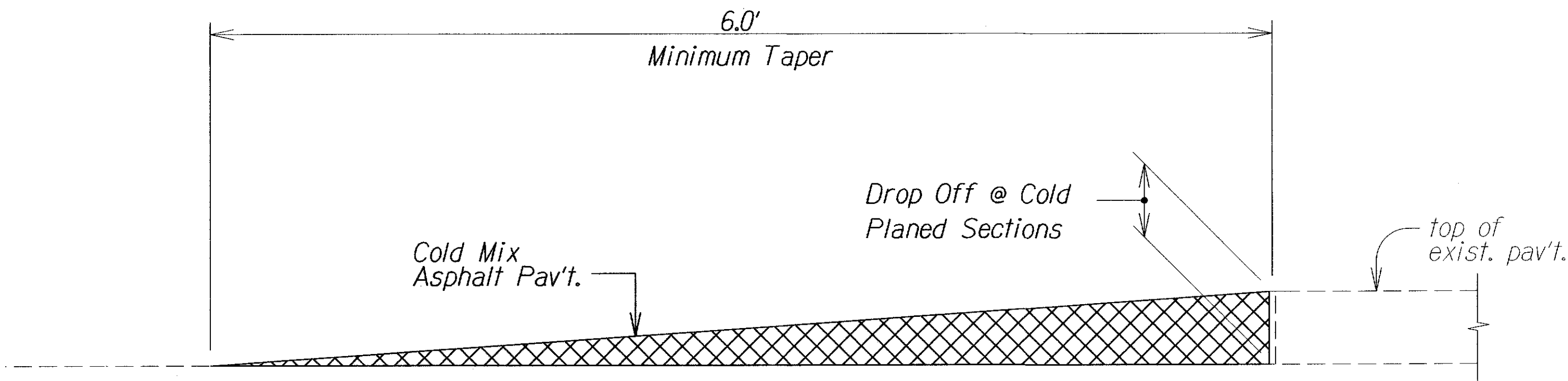
**TYPICAL SECTION**  
 Sta. 79+50± to Sta. 80+50±  
 Scale: 1/4" = 1'

- Notes:
- See Plan Sheets ADD. 16 and ADD. 48 for Additional Pavement Stabilization Information.
  - Prior to placement of the permeable base, the exposed subbase or subgrade shall be recompact to a dense and unyielding condition. The work shall be considered incidental to the Portland Cement Treated Permeable Base.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY	DESIGNED BY	
QUANTITIES BY	QUANTITIES BY	
CHECKED BY	CHECKED BY	5/26/25

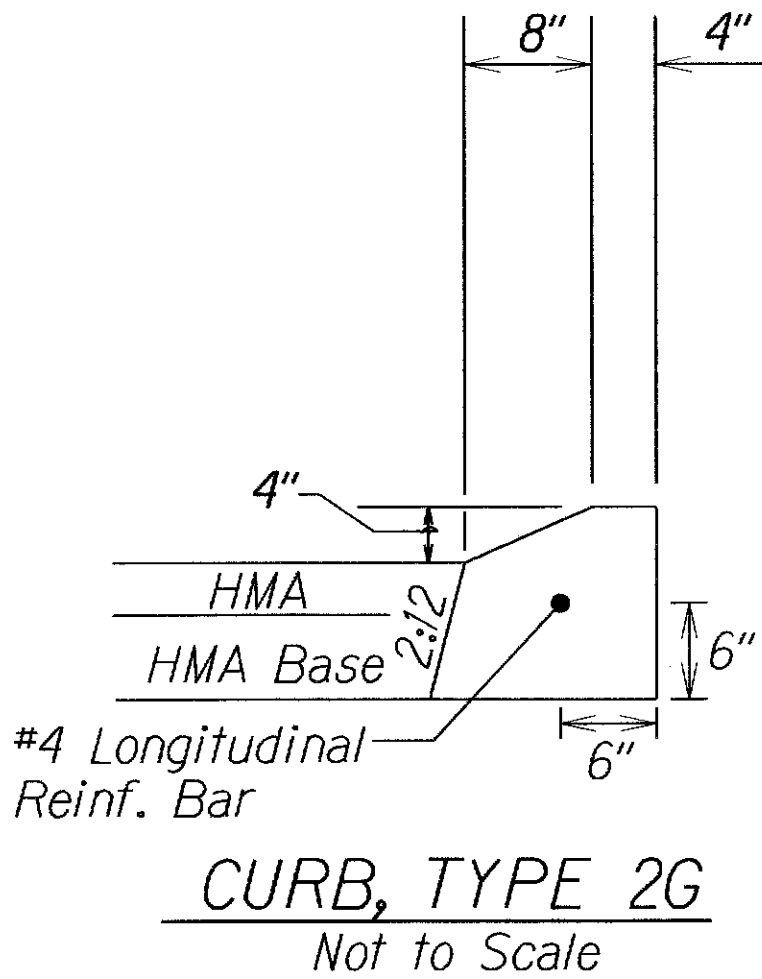
2	11/3/15	Revised Pavement Reconstruction Area.
DATE	REVISION	
<div>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION  <u><b>TYPICAL SECTION</b></u>  <u>LIKELIKE HIGHWAY RESURFACING</u> <u>School Street to Emmeline Place</u> <u>Federal Aid Project No. NH-063-11(023)</u>  Scale: As Shown Date: Sept., 2015</div>		
SHEET No. 7 OF 7 SHEETS		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-063-1(023)	2015	ADD. 16	111



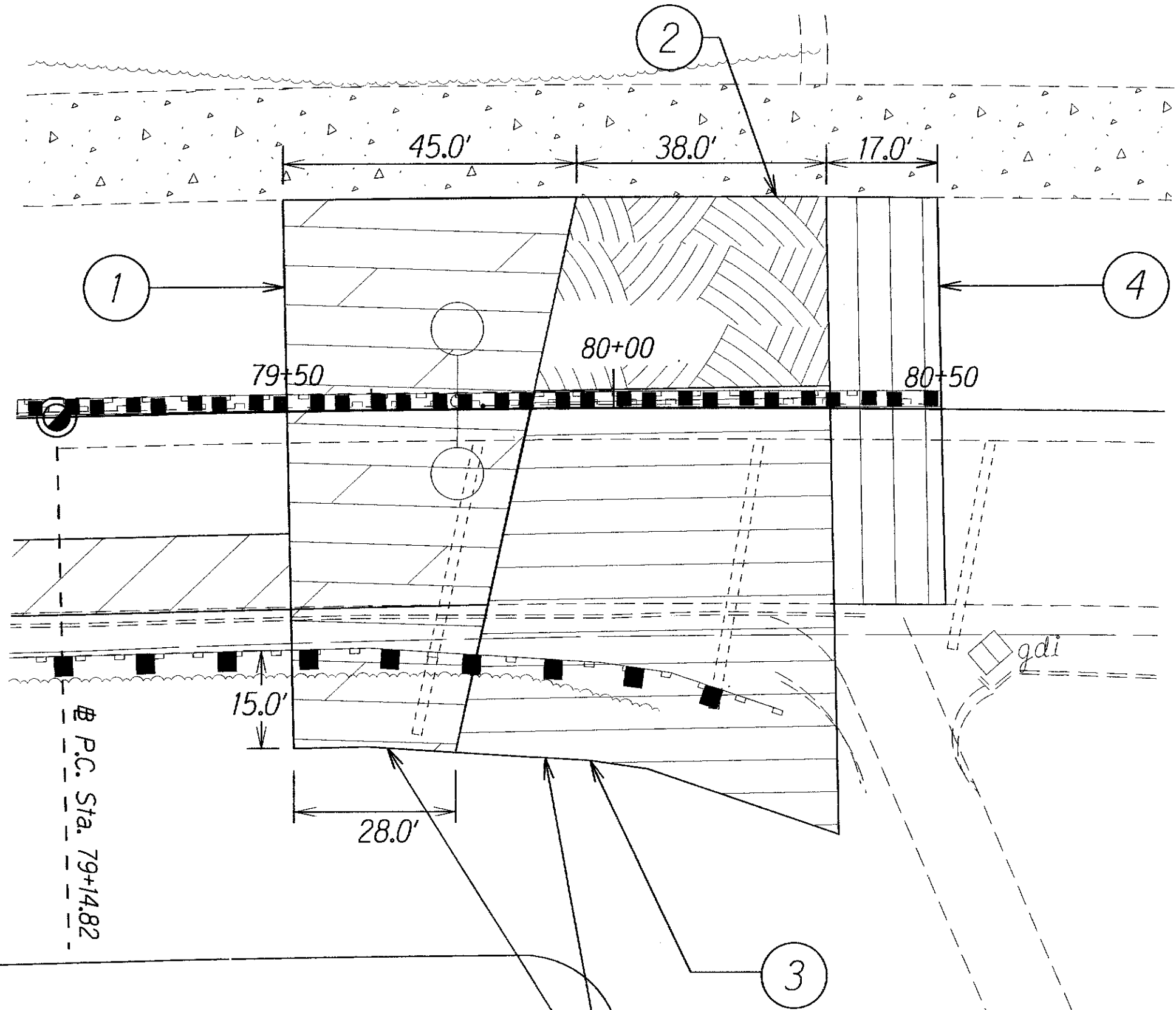
TEMPORARY TRANSITION AT  
COLD PLANED AREAS  
Not to Scale

Note: Contractor shall construct temporary pavement taper to prevent sharp pavement drop-offs at all cold planed sections. Prior to final Hot Mix Asphalt Pavement, Mix No. IV placement, temporary pavement taper shall be removed.



△ Pavement Stabilization Notes:

- For Pavement Section 1, guardrail posts shall be installed in 21-inch diameter holes and backfilled with CLSM with 28-day compressive strength of no more than 100 psi.
- For Pavement Sections 2 and 3, guardrail posts shall be installed in 21-inch diameter holes and backfilled with ASTM C-33 #57 aggregate, and topped with 5-inch thick one-sack grout fill or CLSM.
- For Pavement Section 2, use geotextile fabric for northern excavation face from 5½" to 19½" below grade. Refer to Standard Specification 716.02.
- For Pavement Section 3, use geotextile fabric for northern excavation face from 5½" to 25½" below grade. Refer to Standard Specification 716.02.
- Cost of geotextile fabric is considered incidental to pavement stabilization work.
- For Stations 79+50 through 80+50, the 3½" HMA layer and paving grid shall be placed at the same time for each lane. The paving grid shall cover the entire area without any transverse joints.



Continue pavement section until it daylights through slope face laterally beyond guardrail.

△ PAVEMENT STABILIZATION AREA  
Not to Scale

11/3/15	Added Pavement Stabilization Notes, Pavement Section and Detail.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>TYPICAL SECTION &amp; DETAILS</b> LIKELIKE HIGHWAY RESURFACING School Street to Emmeline Place Federal Aid Project No. NH-063-1(023) Scale: 1" = 1.0' Date: Sept., 2015	
SHEET No. 9 OF 9 SHEETS	

