<u>S7</u>	RUCTURAL NOTES			
A.	GENERAL		В.	RE
1.	Hawaii Standard Specifications for Road ∉ Bridge Construction 2005 and the Special Provisions shall be complied with. For any conflict between the Standard Specifications			
_	Special Provisions and these stringent requirement shall	apply.	2.	Ur ch be sc
2.	Omissions and/or conflicts Special Provisions, and Spec brought to the attention of t resolution before proceeding	cifications shall be the Engineer for	3.	Ch mi ele sh
3.	obtained from field observat February and March of 2012 of the original construction.	ions conducted in and record drawings The accuracy and	4.	Ch no
	completeness of the plans, in dimension, are not guarantee on the drawings may not be shall verify all existing cond before commencing work. No any discrepancies.	ed. Dimensions shown exact. Contractor ditions and dimensions	5.	Ec by off de re les
4.	Verify concrete repair quant repair with the Engineer bea the work.	2.1	6.	Se Re on
5.	Details shown on the drawin for all similar conditions. N special conditions as directe	Nodify details for	7.	cle de Fr
6.	The Contractor shall provide measures to protect the new structures during the consti	work and existing		pa ch sh ce
7.	The Contractor is responsible barricades, work platforms, site. Temporary bracing and under repair as required fo	and safety at the job d shoring of elements	g	fo to pa
	shall be the responsibility of	-	<i>8</i> .	Do
8.	No penetrations shall be allo concrete member unless show or approved by the Engineer	wn on the drawings	9.	Te cu ma so
9.	Contractor's suppliers and M representative shall visit the Contractor's personnel perfo before work begins, on the p	e site to instruct all rming the work,		un re un ad
	preparation and application of the repair mater and shall be available on an on-call basis throughout the extent of the project. Any cost associated with this requirement shall be	of the repair material on-call basis project. Any cost ment shall be	10.	Ur un as
10.	included in the contract prid Contractor shall refer to Sp Section 509 "Concrete Rehab	ecial Provisions	11.	Af Co re
11.	Contractor shall refer to Sp Proposal Schedule for list c	ecial Provisions		WI



<u>ICTURAL NOTES</u>					FED. ROAD DIST. NO.	STATE PRO	YEAR NO. SHEE	
NERAL	B. REPAIR NOTES	С.	CONCRETE		HAWAII	наw. 72В-0	DI-13M 2013 7 34	
waii Standard Specifications for Road ¢	1. Spalls and delaminations are called out as	1.	Surface repair mortar shall be a factory blended surface repair material combined with a polymer type admixture having a minimum compressive strength of 7,000 PSI at 28 days and used for repairs where forming is not required and for areas less than 2 square feet. Use Sikatop 123 or equal. Install per Manufacturer's recommendations.	F. TRAFFIC CONTROL				
ridge Construction 2005 and the Special rovisions shall be complied with. For any	"Spalls". No separate distinction is made between them since the repairs are the same. 2. Unless otherwise indicated on the repair details chip out areas shall extend a minimum of 3" beyond the spall size as indicated in the repair schedule.			 For traffic control plans and notes, see Civil sheets. For vehicular traffic restrictions on bridge during construction, refer to drawing sheet S-19 and to Special Provisions Section 509.03(H)(3) 				
onflict between the Standard Specifications pecial Provisions and these drawings, the more pringent requirement shall apply.								
missions and/or conflicts with the Drawings					fic Control.	Section JUS	.03(17)(3)	
pecial Provisions, and Specifications shall be rought to the attention of the Engineer for esolution before proceeding with the work. nformation shown on the drawings has been	3. Chamfers indicated on the drawings are minimums. Match the existing chamfer on the element being repaired if it exceeds the chamfer shown on the repair drawings.	2.	Polymer modified concrete shall be a mixture of cement, fine aggregate, coarse aggregate, polymer type admixture, super-plasticizing admixture, corrosion inhibitor admixture and water. It shall	3. Vehicular traffic on bridge shall not exceed 25 mph, or a lessor speed limit when specified elsewhere.				
ptained from field observations conducted in ebruary and March of 2012 and record drawings	4. Chipped out area when rebars are exposed shall not be less than 3/4" clear around the bars.		have a minimum compressive strength of 2,000 psi at 6 hours and 7,000 psi at 28 days and shall be used for repairs where forming is required.	<u>ABBRE</u>	EVIATIONS	ABBRI	EVIATIONS (CONT	
f the original construction. The accuracy and pompleteness of the plans, including as-built	5. Edges of chipped out areas shall be square cut	3.	Unless otherwise indicated, admixtures shall be	a.b. Abut	Anchor Bolt	Sect	Section	
mension, are not guaranteed. Dimensions shown the drawings may not be exact. Contractor	by saw cutting to a depth of 3/4" unless otherwise shown on the repair details. Adjust		used at the Contractor's option subject to approval of the Engineer.	a.c. Approx	Abutment Asphalt Concrete Approximate	Sq Sta	Square Station	
all verify all existing conditions and dimensions fore commencing work. Notify the Engineer of	depth of saw cutting to avoid cutting existing rebars. Jackhammer shall be limited to 15 lbs or	4.	Use of calcium chloride in any concrete is	RI	Baseline	Тур	Typical	
ny discrepancies.	less.		prohibited.	Br Bm	Beam	Vert	Vertical	
rify concrete repair quantities for each type of pair with the Engineer before proceeding with	6. See repair notes and details on other sheets. Replace existing rebars as required per Table 1	5.	The patch material shall attain 4,000 psi concrete strength prior to opening lane(s) above to traffic.	Bot Cl	Bottom Center Line	V.I.F.	Verify-in-Field	
e work.	on sheet S-15. All exposed rebars shall be cleaned of all scale, rust, dirt, oil and other	D.	REINFORCING STEEL (NON-PRESTRESSED)	Clr	Clear Column			
etails shown on the drawings shall be typical or all similar conditions. Modify details for	deleterious materials.		Detailing of concrete reinforcement shall be in	Conc	Concrete			
pecial conditions as directed by the Engineer.	7. Fresh concrete and water with cementitious	1.	accordance with ACI 315.	Demo	Demolish			
he Contractor shall provide all necessary easures to protect the new work and existing fructures during the construction.	particles shall be prevented from entering the channel during all concreting work. All forms shall be water tight. Concrete and water with	2.	All reinforcing steel shall be high strength deformed bars conforming to ASTM A615, grade	Det Dia	Detail Diameter			
	cementitious particles shall not overflow formwork. Formwork and joints shall be sealed		60, unless otherwise noted.	Ea Elev	Each Elevation			
he Contractor is responsible for scaffolding, arricades, work platforms, and safety at the job te. Temporary bracing and shoring of elements	to prevent concrete and water with cementitious particles from leaking.	3.	Coat existing exposed reinforcing steel with ASTM C881 Sikadur 32 HiMod or approved equal after cleaning	Exist	Existing			
nder repair as required for structural stability nall be the responsibility of the Contractor.	8. Do not feather edge repairs.	~	after cleaning.	Gr	Grade			
penetrations shall be allowed through any	9. Test all repairs after the repair material is	4.	Reinforcement hooks and bends shall be standard hooks conforming to the provisions of the American Concrete Institute (ACI 218-01) upleas	Horiz	Horizontal			
oncrete member unless shown on the drawings approved by the Engineer.	cured to verify the bond between the repair material and the existing concrete. A hollow sound when tapped with a hammer indicates		American Concrete Institute (ACI 318-01), unless otherwise noted.	Min M.S.L.	Minimum Mean Sea Level			
ontractor's suppliers and Manufacturer's	unsatisfactory bond and shall be rejected. All rejected repairs shall be redone and retested	5.	Reinforcement shall be lapped 48 bar diameters minimum at splices. Stagger splices wherever	mtl	Metal			
presentative shall visit the site to instruct all ontractor's personnel performing the work,	until a satisfactory bond is achieved, at no additional cost to the State.		possible, unless shown otherwise, or refer to weld splice detail on sheet S-15.	O.C.	On Center			
fore work begins, on the proper mixing, surface eparation and application of the repair material	10. Unsound patches shall be removed and the	Ε.	CRACK REPAIRS	Reinf	Reinforcing			
nd shall be available on an on-call basis roughout the extent of the project. Any cost asociated with this requirement shall be	underlying structural elements shall be repaired as a spall.		Crack sealer shall be Sikaflex-1a or approved	Г	N K. NAG		E OF HAWAII DF TRANSPORTATION	
cluded in the contract price.	11. After repairs are completed and accepted by	-	equal.		C C C C C C C C C C C C C C C C C C C	HIGHV	VAYS DIVISION	
ntractor shall refer to Special Provisions ection 509 "Concrete Rehabilitation."	Contractor's quality control specialist, coat repaired areas and all existing concrete areas with Sika FerroGard 903 or equal.	2.	Epoxy injected in cracks shall be Sikadur 35 HiMod LV LPL or approved equal.		* NO. 5479-S *		JRAL NOTES	
ntractor shall refer to Special Provisions	,	3.	Install per Manufacturer's recommendations.		LICENSE EXPIRES: 4/30/14 THIS WORK WAS PREPARED BY ME		<u>AOLE HIGHWAY</u> <u>of Ihiihilauakea Bridg</u>	
oposal Schedule for list of pay items.					OR UNDER MY SUPERVISION.	Project i	Vo. 72B-01-13M	
				L	Norman K, Maganin Scale: St		Date: Jan. 16, 2013 4 OF 26 SHEETS	
							7	