Samples of Required Documents Submitted to SC HQ

This attachment includes examples of or links for some of the completed required documents referenced in Attachment1, *List of Required Documents Submitted to SC HQ*, as follows:

1. Form SC-3812, CIDH Pile Information for Piles Tested by the FTB: See Figure 1
2. Form SC-4803, Pile Quantity & Driving Record: See Figure 2 and see the link for Bridge No. 12-0204, Flag Canyon Creek Bridge
3. Form SC-4804, Pile Quantity and Drilling Record (CIDH Piles): See Figure 3
4. Form SC-4805, Log Pile Sheet: See Figure 4
5. Form SC-4806, Pile Layout Sheets: See Figure 5
6. Form SC-6303, Report of Completion – Bridges: See link for Bridge No. 27-0019, San Antonio Creek Bridge
7. Form SC-6304, Report of Completion – Building Projects: See link for Building No. 33-BLD-80-PM2.2, SFOBB Maintenance Complex
8. Form SC-6305, Paint Record: See Figure 6 and link for Bridge No. 23-0024, Sacramento River (Rio Vista) Bridge
9. Form DSD-D-0129, Joint Movement Calculations: See Figure 7 and the link for Bridge No. 02-0202, Hilt Road OC (Replace)
10. Form TR-0019, Notice of Change in Clearance or Bridge Weight Rating: See link for structures for Contract 04-2640N4
11. Form TR-0020, Notice of Change in Vertical or Horizontal Clearance: See link for structures for Contract 04-260N4
12. As-built CPM Schedule: See link for Contract No. 04-264094
13. As-built project plans: See link for Bridge No. 27-0119, San Antonio Creek Bridge.

State of California
DEPARTMENT OF TRANSPORTATION

California State Transportation Agency

Memorandum

To: RICHARD FOLEY
DEPUTY DIVISION CHIEF
OFFICE OF STRUCTURE CONSTRUCTION
DIVISION OF ENGINEERING SERVICES, MS 9-2/11H

Date: July 11, 2022

ATTENTION: CHAIRMAN – PILE MITIGATION COMMITTEE

From: **Jordan Jarosz/Mohamed Kaddoura**
Structure Representative
5675 B Gibraltar Drive
Pleasanton, Ca, 94588
(XXX) XXX-XXXX

Subject: CIDH Pile Information for Piles Tested by the Foundation Testing Branch (FTB)

Project No.: 04-297634		Project Name/ Location:	04-Ala-84/680-17.9/R22.9, R10.3/R15.3		
Bridge/Structure No.:33-0352		Bridge/Structure Name:	Scotts Corner Separation (Widen)		
Abut/Bent/RW/SW No: Bents NB&SB		Prime Contractor:	Bay Cities Inc, and Bridgeway		
Const. Phase: *(if applicable)*		Drilling Contractor:	Pacific Coast Drilling Company		
Slurry Type: *(water, SlurryPro, etc)*	Slurry Pro	Concrete Mfr & Mix Design No.:	Cemex 1617357	Max. Concrete Aggregate Size:	3/8"

PILE No.	From Acceptance Test Report, PILE was ACCEPTED *(A)* OR REJECTED *(R)*?	IF Pile was REJECTED, List ANOMALY X-Sections *(A-A,B-B,etc)*	FOR ANOMALY X-SECTIONS: Was MITIGATION REQUIRED? *(Yes/No)*	IF Mitigation Required, was Mitigation DUE to GEOTECH *(G)*, STRUCTURE DESIGN *(S)*, and/or CORROSION *(C)* concerns?	Describe Repair Method *(simple repair, excavate/chip/concrete, waterblast/grout, etc)* OR Amount of Administrative Deduction Taken *($$)*
Bent 2 (NB)	A		N		
Bent 2 (SB)	R	A-A	Y	S	Simple repair
Bent 3 (NB)	A		N		
Bent 3 (SB)	A		N		

Sheet 1 of 1 pages

"Provide a safe and reliable transportation network that serves all people and respects the environment"

CALIFORNIA DEPARTMENT OF TRANSPORTATION
CIDH Pile Information for Piles Tested by the Foundation Testing Branch (FTB)
Form SC-3812 (NEW. 12/22/2022)

Figure 1. Form SC-3812, *CIDH Pile Information for Piles Tested by the FTB*

STATE OF CALIFORNIA . DEPARTMENT OF TRANSPORATION

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

FORM SC-4803 (Formerly DS-SC78) (REV. 12/17/13)

JOB STAMP

Big Bypass
Contract No. 01-263004
01-Men-101-69.4/78.9

SHEET NO. 48

BRIDGE NO. 10-0173 ITEM DESCRIPTION Driven PILING

BRIDGE NAME Quail Meadows UC TYPE PILE USED HP14x89

ABUT OR BENT NO. Abut 1 FTG FTG TYPE BOTTOM FTG. ELEV. 1345

HAMMER MAKE Delmag MODEL D30-32 E= 82,625 (max)

DESIGN BRNG. 220 REQUIRED BRNG. 400 BLOW/FT AT REQUIRED BRNG 26

PILE DRIVING INSPECTED BY B. Bet PILE QUANTITY CALC BY R. Deo DATE 6/17/2015

PILE CONCRETE PLACING INSP. BY PILE QUANTITY CHECK BY DATE

PILE NO.	DATE PILE DRIVEN	BLOWS PER FOOT	DATE PILE CONC. PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TIP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TIP ELEV. (1-5)	(7) PAY LENGTH * SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF REBAR REQ.
1	6/3	30		1345	1295				1295	50.3			
2	6/3	32		1345	1295				1295	50.3			
3	6/3	28		1345	1295				1295	50.3			
4	6/3	27		1345	1295				1295	50.3			
5	6/4	35		1345	1295				1295	50.3			
6	6/4	35		1345	1295				1295	50.3			
7	6/4	29		1345	1295				1295	50.3			
8	6/5	32		1345	1295				1295	50.3			
9	6/5	30		1345	1295				1295	50.3			
10	6/5	31		1345	1295				1295	50.3			
11	6/8	27		1345	1295				1295	50.3			
12	6/8	32		1345	1295				1295	50.3			
13	6/8	36		1345	1295				1295	50.3			
14	6/8	30		1345	1295				1295	50.3			
15	6/9	29		1345	1295				1295	50.3			
16	6/9	29		1345	1295				1295	50.3			
										0			
										0			
										0			
										0			
										0			
										0			
										0			
										0			
										0			
										0			
										0			
										0			
										0			
										0			
										0			

SHEET TOTALS	ITEM NO. 125 16 EA.	ITEM NO. 124 805.3 LF.	FILE CATEGORY 48

* THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHICHEVER IS LOWER) WAS OBTAINED. ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45-1, 45-2, OR 70 PILING, THE LOWER LIMIT FOR PAMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION

Figure 2. Completed Form SC-4803, *Pile Quantity & Driving Record (Driven Piles)*

DEPARTMENT OF TRANSPORTATION

PILE QUANTITY & DRILLING RECORD (CIDH PILES)

FORM D.C.SC784 (8/81)

JOB STAMP: 11-Imp-86-64.2/67.8
11-195814

SHEET NO. 48 - 28-1

BRIDGE NO. 58-0721 ITEM DESCRIPTION 16" CIDH PILING

BRIDGE NAME Sparosa

~~ABUT~~ OR BENT NO. 2 FTG Center FTG TYPE _____ BOTTOM FTG ELEV. 310.0

PILE DRILLING INSPECTED BY F. I. Travelot

REINFORCING STEEL INSPECTED BY F. I. Travelot

CONCRETE PLACING INSPECTED BY F. I. Travelot

QUANTITY CALCULATIONS BY F. I. Travelot DATE 10/9/81

QUANTITY CALCULATIONS CHECKED BY I. L. Stayawae DATE 10/19/81

PILE NO	DATE PILE DRILLED	DATE REBAR PLACED	DATE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV	(2) SPEC. PILE TIP ELEV.	(3) THEOR. LENGTH OF PILE (1-2)	(4) MEAS. LENGTH OF PILE	(5) ACTUAL PILE TIP ELEV. (1-4)	(6) PAY LENGTH * SEE NOTE BELOW	REMARKS	LENGTH OF REBAR REQ'D.
1	10/8/81	10/9/81	10/9/81	310.3	278.0	32.3	32.5	277.8	32.3	hard drilling	
2	"	"	"	"	"	"	32.8	277.5	"		
3	"	"	"	"	"	"	33.0	277.3	"	12" cobbles at Elev. 290 ±	
4	"	"	"	"	"	"	32.9	277.4	↓		
5	"	"	"	"	"	"	32.0	278.3	32.0		
6	"	"	"	"	"	"	32.3	278.0	32.3		
7	"	"	"	"	"	"	32.7	277.6	"	Core barrel used Elev. 280-285	
8	"	"	"	"	"	"	33.1	277.2	"		
9	↓	↓	↓	↓	↓	↓	32.6	277.7	↓	ground water at tip - minor seepage	

SHEET TOTAL ITEM NO. 28 290.4 L.F.

* THE PAY LENGTH (6) IS THE THEORETICAL LENGTH (3), EXCEPT THAT IF THE MEASURED LENGTH (4) IS LESS THAN THE THEORETICAL LENGTH (3) THE MEASURED LENGTH (4) WILL BE THE PAY LENGTH (6)

FILE CATEGORY 48

Figure 3. Form SC-4804, *Pile Quantity & Drilling Record (CIDH Piles)*

STATE OF CALIFORNIA.DEPARTMENT OF TRANSPORTATION

LOG PILE SHEET

SC-4805 (Formerly DH-OS C79) (REV. 12/17/13)

JOB STAMP
Big Bypass
Contract No. 01-263004
01-Men-101-69.4/78.9

Bridge Name **Quail Meadows UC** Sheet No. 1/16

Bridge No. **10-0173** Abut/Bent No. **Abut 1** Pile No. 1

Hammer Make **Delmag** Model **D30-32** Energy (ft-lbs) = **82,625 (max)**

Reference Descr **Bottom of Footing** Reference Elev **1345.00** Pile Type **HP14x89**

Pile Length **50.33** Pile Tip Elev **1295.00** Pile Cutoff Elev **1345.33**

Date(s) Driven **6/3/2015** Inspected by **B. Bet**

Penetration (ft)	Tip Elev (ft)	Blows/ft	Blows/Min	Equiv Stroke	Time	Remarks
15.00	1330.00	2				Start- Pile tap to 15'
20.00	1325.00	3				
25.00	1320.00	6				
30.00	1315.00	10				
31.00	1314.00	11				
32.00	1313.00	10				
33.00	1312.00	13				
34.00	1311.00	12				
35.00	1310.00	14				
36.00	1309.00	14				
37.00	1308.00	14				
38.00	1307.00	15	46	6.8		
39.00	1306.00	16				
40.00	1305.00	15				
41.00	1304.00	16				
42.00	1303.00	18				
43.00	1302.00	19				
44.00	1301.00	18				
45.00	1300.00	20	44	7.5		
46.00	1299.00	20				
47.00	1298.00	23				
48.00	1297.00	27				
49.00	1296.00	28				
50.00	1295.00	30	42	8.2		Finish- Pile tip

Figure 4. Form SC 4805, *Log Pile Sheet*

STATE OF CALIFORNIA.DEPARTMENT OF TRANSPORTATION

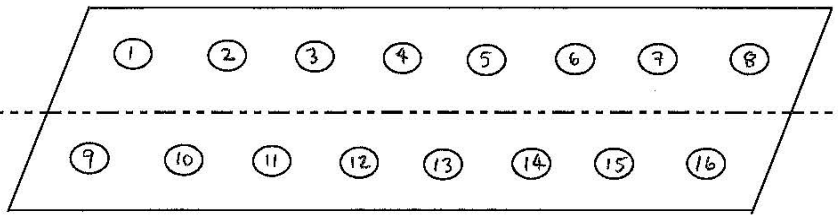
PILE LAYOUT SHEET

SC-4806 (Formerly DH-OS C80) (REV. 12/17/13)

JOB STAMP
Big Bypass
Contract No. 01-263004
01-Men-101-69.4/78.9

DRAWN BY **B. Bet** DATE **4/23/2015** SHT NO 1/2
CHECKED BY **R. Deo** DATE **4/24/2015**
BRIDGE NO. **10-0173** FTG
ABUTMENT OR BENT NO **1** FTG TYPE
BOTTOM FTG ELEV **1345**

PER PLAN	AS-BUILT	DATE REVISED
Pile Type: HP 14x89		
Cutoff Elev: 1345.33		
Tip Elev: 1295		
Pile Length: 50.33		



Abutment 1, looking up station

SCALE: NTS

Figure 5. Form SC-4806, *Pile Layout Sheet*

STATE OF CALIFORNIA.DEPARTMENT OF TRANSPORTATION

PAINT RECORD

SC-6305 (Formerly DH-OS M11) (REV. 12/17/13)

BRIDGE NAME	BRIDGE NUMBER	DIST - CO - RTE - PM	DATES COVERED - THIS RPT (INC)
Eel River BOH	04-0015	01-HUM-283-0.1	1/23/18 → 8/6/18

CONTRACT NUMBER	COST OF JOB (PAINT ONLY)	PAINT INSPECTOR
01-0E8404	$2,136,000	Mike McCracken, Jarah Hurd

CONTRACTOR	SUBCONTRACTOR
Murphy Industrial Coatings	—

DATE STARTED	DATE COMPLETED	WORKING DAYS ALLOWED
1/23/18	8/6/18	115

DAYS WORKED	DAYS LOST-WEATHER	DAYS LOST-OTHER	DAYS OVERRUN
94	42	—	—

TYPE OF STRUCTURE - NUMBER AND LENGTH OF SPANS

Continuous riveted steel through truss in Spans 7-9 (240', 322', & 240' respectively). Steel hand rail in spans 1-12.

Concrete "end posts" at south approach. See routine inspection rept for addt'l details.

TOTAL AREA SQFT	AREA BLASTED SQFT (spot blast SSPC-SP6)	TOTAL TONS
93,000	2000	30

DESCRIPTION OF PAINT SYSTEM

Brush off blast clean (SSPC-SP7) of existing 2003 coating system, with application of a new PWB coating system. Handrail has white PWB 174 finish coat.

REMARKS The 15" exterior face of each sidewalk was hand-scrubbed with water (NO SSPC-SP7), & two finish coats of PWB were applied.

OPERATION	METHOD	SUPPLIER	SPEC NO	AMOUNT USED	SQ FT AREA	SQ FT/GAL	TOTAL COST	SQ FT COST
pressure wash	pressure wash	Murphy Industrial Coatings performed the work	std. spec. 59-2.01C(3)(b)(1)	N/A	91,000	N/A	$511,000	$5.62/SQFT
brush-off blast	SSPC-SP7	abrasive: Kleen Blast 30/60 — Murphy Industrial Coatings performed the work	special provision 59-2.01C(3)(b)(1)	29	89,000	N/A	$571,000	$5.74/SQFT
spot-blast clean	SSPC-SP6 & SSPC-SP11	abrasive: Kleen Blast 30/60 — Murphy Industrial Coatings performed the work	std. spec. 59-2.01C(3)(b)(1)	1	2,000	N/A	$32,000	$16/SQFT
hand clean	SSPC-SP1	Murphy Industrial Coatings performed the work	N/A - Extra work	N/A	2,000	N/A	$50,000	$25/SQFT
under coats	~88% spray ~12% brush & roller	Stiles	std. spec. 59-2.01C(4)(c) spec. prov. 59-2.01A(1)	617 gal	93,000	151 SQFT/gal	$344,000	$3.70/SQFT
finish coats	~86% spray ~12% brush & roller	Stiles	std spec 59-2.01C(4)(c) spec. prov. 59-2.01A(1)	1,257 gal	186,000	149 SQFT/gal	$688,000	$3.70/SQFT
			TOTALS:	N/A	N/A	N/A	$2,136,000	N/A

Note: "SQFT Area" column represents sum of area of each coat.

REPORT BY	TITLE	DATE
Mike McCracken	Structure Rep	10/15/18

Figure 6. Form SC-6305, *Paint Record*

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

JOINT MOVEMENTS CALCULATIONS [a]

DSD-D-0129 (REV. 5/93)

EA	DISTRICT	COUNTY	ROUTE	PM	BRIDGE NAME AND NUMBER
01-0H6401	01	MEN	101	25.72	COTTONWOOD OH 10-0199L

TYPE STRUCTURE	TYPE ABUTMENT	TYPE EXPANSION (2' elasto pads, etc.)
CIP/PS BOX GIRDER	SEAT	

① **TEMPERATURE EXTREMES** *(from Preliminary Report)*

						② **THERMAL MOVEMENT** *(inches/100 feet)*		② **ANTICIPATED SHORTENING** *(inches/100 feet)*	③ **MOVEMENT FACTOR** *(inches/100 feet)*
Maximum	115 °F	Steel	Range (____ °F)	(0.0000065 x 1,200)	=	____ . ____	+	0.00	= ____ . ____
- Minimum	13 °F	Concrete (Conventional)	Range (____ °F)	(0.0000060 x 1,200)	=	____ . ____	+	0.06	= ____ . ____
		Concrete (Pretensioned)	Range (____ °F)	(0.0000060 x 1,200)	=	____ . ____	+	0.12[g]	= ____ . ____
=Range	102 °F	Concrete (Post Tensioned)	Range (102 °F)	(0.0000060 x 1,200)	=	. 734	+	0.63[g]	= 1 . 364

ITEM ① DESIGNER	DATE	ITEM ② CHECKED BY	DATE
M. LYNCH	07/10/2018	R. WILSON	08/08/2018

To be filled in by Office of Structures Design [b]

To be filled in by SR[c]: P. CARROL Date: 10/02/2019

Location	Skew *(degrees) Do not use in calculation*	④ Contributing Length *(feet)*	Calculated Movement *(inches)* ③×④/100	M.R. *(inches) (Round up to 1/2")*	Seal Type A, B *(Others)* or Open Joint	Seal Width Limits[d] Catalog Number	W_1 *(inches)* Maximum	⑤ W_2 *(inches)* Min. @ Max. Temperature	Structure Temperature (°F) [f]	Groove *(saw cut)* Width or Installation Width[e] ⑥ Adjust from Maximum Temp. *(inches)* Δ^c / ①×②×④ / 100	Width at Temp. Listed *(inches)* w=⑤+⑥
Abutment 1	17	121	1.65	2	B	WA 500	4.293	2.240	66	0.427	2.667
Abutment 2	19	121	1.65	2	B	WA 500	4.293	2.240	58	0.496	2.736

a Project Designer: Send to RE or SR with Preliminary Report.

b Show line drawing of structure on reverse side; show points of no movement and contributory lengths. Retain copy for design calculations file.

c RE or SR: Complete and return to Structure Construction with final report.

d Type B information from TransLab reports.

e Groove width adjustment based on Δ^c = (maximum temperature extreme) minus (superstructure temperature).

f Measure superstructure temperature by placing bulb of concrete thermometer ± 6 inches into expansion joint.

g When MR is greater than 4 inches, increase anticipated shortening 25%.

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

Figure 7. Form DSD-D-0129, *Joint Movement Calculations*