The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions: <u>MailTo:ContractAdministration@TampaGov.net</u>

Please Let Us Know If You Plan To Bid

City of Tampa Contract Administration Department 306 E. Jackson St. #280A4N Tampa, FL 33602 (813)274-8456



CITY OF TAMPA

CITYWIDE BRIDGES MINOR REPAIRS

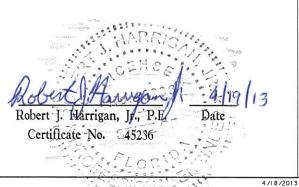
BRIDGE NO'S: 5, 6, 7, 8, 11, 13, 16, 17, 100086, 105501, 105502, 100507, 105600, 105605, 105606, 105608, 105610, 105612, 105618, 105622, 105623, 105625, 105626, 105627, 105628, 105629, 105906, 105908, 105912, 105913, 105915

PROJECT NO. TR0145

TRANSPORTATION DIVISION

DEPARTMENT OF PUBLIC WORKS

CITY OF TAMPA, FLORIDA



ENGINEER OF RECORD. VOLKERT, INC. 3409 West Lemon Street Tampa, Florida 33609 Certificate of Authorization No: 4641

1010101-183

INDEX OF DRAWINGS SHEET NO DESCRIPTION Key Sheel / Index General Notes Bridge Report Estimated Quantities (I of 2) Bridge Report Estimated Quantities (I of 2) Bridge Report Estimated Quantities (2 of 2) Sopal Report Details 7 Slape Protection Details 8 Railing Details 9 Misc. Details
Prepared By: VOLKERT, INC. 3409 West Lemon Street
Tampa, Florida 33609
APPROVED BY:
ALTAFHUSEN BUKHARI, P.E. PROJECT MANAGER DEPARTMENT OF PUBLIC WORKS
CERTIFICATION
SHEET I

GENERAL NOTES

GENERAL SPECIFICATIONS.

FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2013 EDITION AND SUPPLEMENTS THERETO.

DESIGN SPECIFICATION:

- I. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (2002 EDITION). WITH APPLICABLE INTERIMS THROUGH 2003.
- 2. AASHTO STANDARD SPECIFICATIONS FOR MOVABLE HIGHWAY BRIDGES (1988 EDITION).

CONCRETE:

- CLASS MAXIMUM MINIMUM DESIGN UNIT DESIGN I OCATION COMPRESSIVE 28-DAYS WEIGHT INCL. MODULUS OF OF CONCRETE STRESS (PSI) COMPRESSIVE REINFORCING ELASTICITY IN STRUCTURE STRENGTH (PSI) (PCF) (KSI)
- FC 2,200 F'C 5,500 3.846 IV 150 RAILING TRUNNION SUPPORT IV FC - 2,200 F'C - 5,500 3.846 150

CONCRETE DETAILS.

- I. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED EDGES EXCEPT AS OTHERWISE NOTED.
- 2. CONSTRUCTIONS JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICATED ON PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE WRITTEN APPROVAL OF THE ENGINEER.
- 3. ALL DIMENSIONS PERTAINING TO LOCATIONS OF REINFORCING ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO
- FACE OF REINFORCING BAR.
- DENOTES "EACH FACE" EF NF DENOTES "NEAR FACE" FF DENOTES "FAR FACE"
- "TOP AND BOTTOM" T&B DENOTES
- "CLEAR" CL DENOTES

BONDING COMPOUND:

BONDING COMPOUND SHALL BE APPLIED TO ALL SET CONCRETE PRIOR TO PLACING NEW CONCRETE UNLESS OTHERWISE NOTED. BONDING COMPOUND SHALL BE TYPE "A" EPOXY COMPOUND MEETING THE REQUIREMENTS OF SECTION 926 OF THE GENERAL SPECIFICATIONS. BONDING COMPOUNDS SHALL BE MIXED. APPLIED TO A PROPERLY PREPARED SURFACE AND CURED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

FIELD VERIFICATION.

DIMENSIONS SHOWN IN THE CONTRACT PLANS WERE OBTAINED FROM FIELD OBSERVATION, AND PREVIOUS CONTRACT PLANS AND SHOP DRAWINGS AND ARE INTENDED FOR INFORMATION AND ESTIMATING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND CONDITIONS REQUIRED TO PERFORM THE RENOVATIONS. FAILURE BY THE CONTRACTOR TO FIELD VERIFY DIMENSIONS WILL NOT BE A JUSTIFICATIONS FOR CLAIMS.

MANUFACTURER'S REFERENCES & SUBSTITUTIONS.

REFERENCE TO A PARTICULAR MANUFACTURER, TRADE NAME, OR CATALOG NUMBER ESTABLISHES THE QUALITY STANDARDS OF MATERIAL AND EQUIPMENT REQUIRED FOR THIS INSTALLATION AND IS NOT INTENDED TO EXCLUDE PRODUCTS EQUAL IN QUALITY AND SIMILAR DESIGN. WHENEVER A MATERIAL OR EQUIPMENT IS DEFINED BY SPECIFYING A PROPRIETARY PRODUCT OR MANUFACTURER OR VENDOR NAME. THE TERM "OR APPROVED EQUAL," IF NOT INSERTED SHALL BE IMPLIED.

EQUIVALENT PRODUCTS MAY BE SUBSTITUTED BY THE CONTRACTOR, SUBSEQUENT TO THE PRODUCT BEING SUBMITTED FOR APPROVAL. PROVIDED THE CHANGE IS AT NO ADDITIONAL COST TO THE CITY.

WORKING DRAWINGS.

THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS AND/OR MANUFACTURER'S LITERATURE FOR ALL NEW STRUCTURAL COMPONENTS TO BECOME PART OF THE FINAL STRUCTURE AND FACILITIES. SUCH DRAWINGS SHALL INCLUDE ALL DIMENSIONS, FITS, FINISHES, MATERIALS, AND SPECIAL INSTRUCTIONS REQUIRED TO PROPERLY CONSTRUCT, FABRICATE, AND INSTALL THESE COMPONENTS. FIELD VERIFIED DIMENSIONS SHALL BE SHOWN AND CLEARLY IDENTIFIED AS SUCH IN THE SHOP DRAWINGS.

MAINTENANCE OF TRAFFIC:

FDOT STANDARD INDEX 600 PROVISIONS SHALL GOVERN MAINTENANCE OF TRAFFIC. CONTRACTOR SHALL SUBMIT A PLAN FOR CITY APPROVAL WHERE TRAFFIC CONTROL IS NECESSARY.

BOLTS:

BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL BE ASTM A325 TYPE I, HIGH STRENGTH BLACK BOLTS. BOLTS SHALL BE COMPLETE WITH NUT AND WASHER(S). BEVELED WASHERS SHALL BE USED ON TAPERED FLANGES. BOLTS REMOVED (TEMPORARILY OR NOT) SHALL NOT BE REUSED. BOLTS SHALL BE 7/4" DIA. UNLESS OTHERWISE SPECIFIED.

ANCHOR BOLTS SHALL BE AS SHOWN IN THE PLANS AND AS DEFINED IN THE SPECIFICATIONS.

WELDING:

WELD DETAILS AND THE WELDING OPERATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE ANSI/AASHTO/AWS DI.5 BRIDGE WELDING CODE. DOCUMENTATION OF THEIR QUALIFICATIONS TO PERFORM THE SPECIFIC WELDING TASK IN ACCORDANCE WITH THE APPROPRIATE CODE GOVERNING THE WORK IS REQUIRED PRIOR TO PERMITTING WELDERS, WELDING OPERATORS, OR TACKERS TO PERFORM WELDING ON THE STRUCTURE.

120

BRIDGE NOTES:

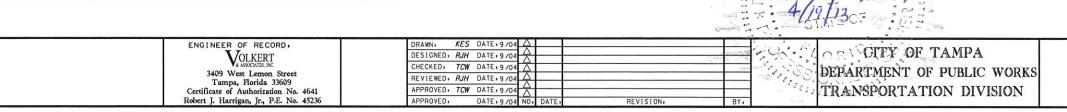
CONTOURS. SIDEWALK.

BRIDGE #105623 - INJECT AND SEAL CRACK (3 LF), TO INCLUDE ROUTING. BRIDGE #105628 - BRIDGE DECK EXPANSION JOINT (POURABLE) IS ON SIDEWALK. NOT ON BRIDGE DECK. BRIDGE #105915 - REPAIR SCOUR HOLE USING TOE SLAB DETAIL.

PAY ITEM NOTES:

NOTED OTHERWISE.

SCOPE OF WORK NOTES.



(REFERENCED ON BRIDGE REPAIR ESTIMATED QUANTITIES SHEETS) BRIDGE #7 - CHANNEL EXCAVATION IS TO RESTORE DRAINAGE DITCH TO ORIGINAL

BRIDGE #105600 - STRUCTURAL STEEL CONSISTS OF REPAIRS/REPLACEMENTS FOR HANDRAIL ANCHOR BOLTS AND NUTS. MATCH EXISTING HARDWARE. BRIDGE #105622 - RIPRAP TO INCLUDE +/- 50 LF ON BACK SIDE OF APPROACH

I. PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL PAY ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICES

FOR PAY ITEMS. DEMOLITION AND REMOVAL SHALL BE INCIDENTAL UNLESS

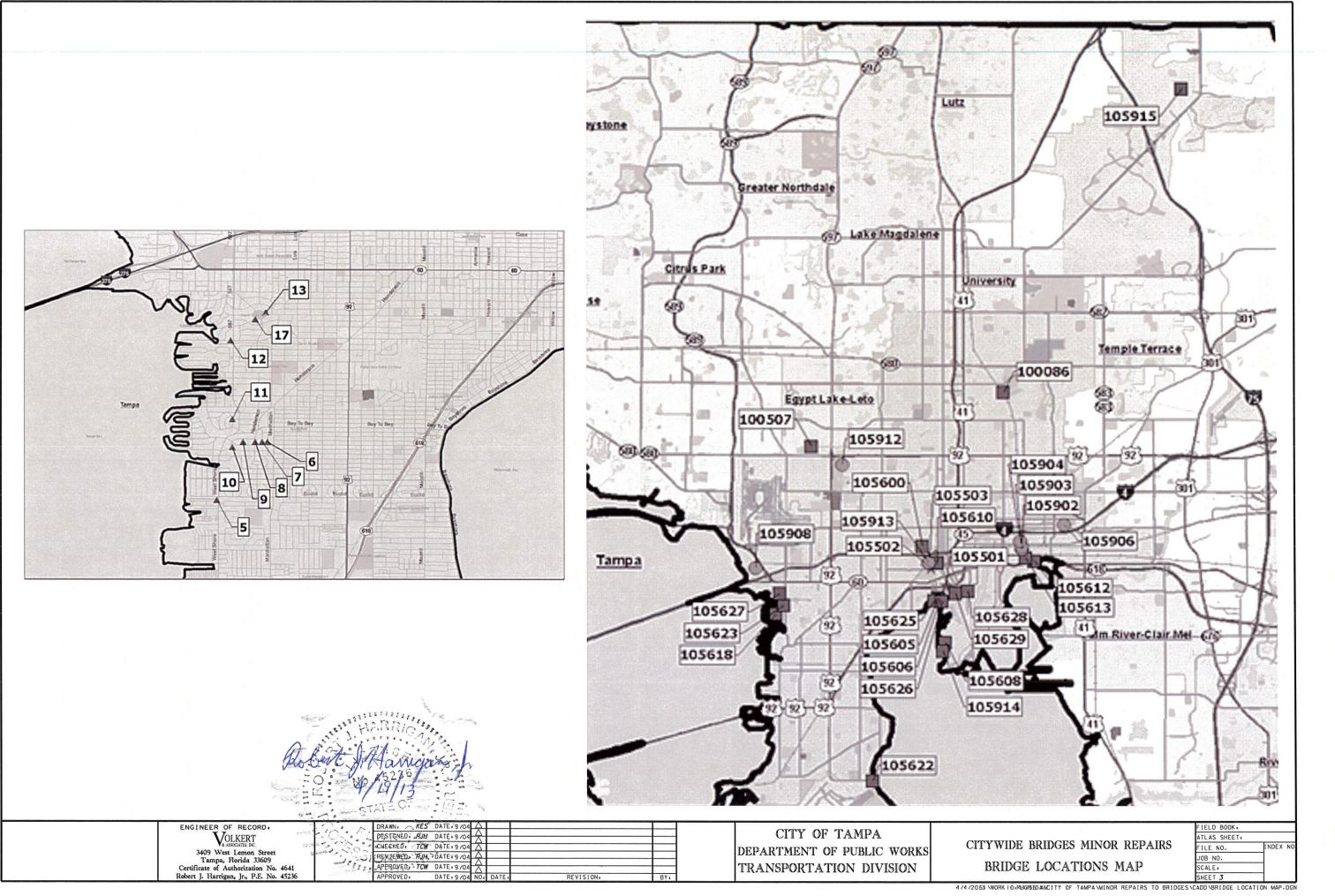
2. THE COST OF REINFORCING STEEL SHALL BE CONSIDERED TO BE INCIDENTAL TO CONCRETE SPALL REPAIR AND DECK JOINT REHABILITATION RESPECTIVELY.

I. WHEN WORKING AT A BRIDGE SITE. THE GENERAL INTENT IS TO ADDRESS ALL WORK AT THAT BRIDGE. THE ACTUAL SEQUENCE OF BRIDGES TO BE ADDRESSED WILL BE AS DIRECTED BY THE CITY. 2. THESE PLANS ARE INTENDED TO ADDRESS DEFICIENCIES IDENTIFIED IN THE LATEST BRIDGE INSPECTION REPORT AND TO BE USED WITH THOSE REPORTS FOR LOCATIONS OF SPECIFIC DEFICIENCIES. 3. WORK DEPICTED IN THESE PLANS IS OF A GENERALIZED NATURE AND CERTAIN DECISIONS IN THE FIELD BY THE CITY AND CONTRACTOR ARE REQUIRED. ACTUAL QUANTITIES MAY BE HIGHER OR LOWER THAN THOSE ESTIMATED.

CITYWIDE BRIDGES MINOR REPAIRS GENERAL NOTES

FIELD BOOK.	
ATLAS SHEET.	
FILE NO.	INDEX NO
JOB NO.	
SCALE	
SHEET 2	

4/18/2013 3.31.555. RWORK - FLORIDANCITY OF TAMPANMINOR REPAIRS TO BRIDGES \CADD \GNOTES.DGN



			121-70	110-4	120-5	120-6	327-70-1	334-1-11	337-7-33	339-1	400-0	400
BRIDGE NUMBER	BRIDGE NAME	BRIDGE LOCATION	Flowable Fill (CY)	Removal of Exist. Pavement (SY)	Channel Excavation (CY)	Embankment (CY)	Milling (1" Avg Depth) (SY)	Superpave Asph. Conc. (TN)	Asphalt Conc. Friction Course (TN)	Misc. Asphalt Pavement (TN)	Conc. Class NS (CY)	Cor Clas (mis (C)
105610	Ashley Street Ramp	Ashley St. Ramp to I-275	, 7 h 				225	41	10			
105600	Eugene Holtsinger Bridge	North Blvd. at Hillsborough River		·								
105612	31st Street / 29th Street Outfall	31st / 29th Streets at SR-60 (Adamo Dr.)		·		1.1.C						
105605	Davis Island Bridge	Bayshore Blvd. / Hyde Park Ave.										
105627	Neptune Way / Shorecrest Canal	0.1 Mile W. of Westshore Blvd				3						
105623	Garden Club Drive / Lily Canal	25 ft E. of Grove Park Ave.					107	18				
105912	Himes Avenue over Rusty Canal	Himes Ave. 0.2 Mile S. of Hillsborough Ave.				1					1	
100086	CR 585 Rowlett Park Drive	N.N.E. Tampa / Hillsborough River				13						
105629	S. Harbour Island Bivd. / Garrison Channel	0.2 Mile S. of Channelside Dr.				6						
105618	Culbreath Isles Dr / Salt Bayou	Culbreath Isles		·								
105906	Apex Drain at 43rd Street	43rd St. at Columbus Dr.	<u>.</u>			3	200	22		1		
8	Schiller St. over Drainage Canal	150 ft N. of Lumb Avenue	1									5
6	Emerson St. over Drainage Canal	150 ft N. of Lumb Avenue	1									
13	Swann Circle over Drainage Creek	At Woodmere Road on E. side of circle										5
17	Swann Circle over Drainage Creek	At Woodmere Road on W. side of circle	D D		1							
11	S. Parkview St. over Saltwater Bayou	At Browning Avenue	1									
7	West Keats St. over Drainage Canal	150 ft N. of Lumb Avenue			60*							5
100507	Lois Avenue over Henry St. Canal	0.5 Mile N. of Hillsborough Avenue										
105625	On-Ramp to Davis Island Boulevard	North Bayshore Blvd. / Upper Hillsborough Bay		···· ¹								
105606	Plant Avenue Bridge	North Bayshore Blvd. / Upper Hillsborough Bay		÷		1						
105626	Off-Ramp to Tampa General Hospital	Davis Island Blvd. Exit / T.G.H	1									
105628	Beneficial Drive / Garrison Channel	0.2 Mile S. of Channelside Dr.										
105913	Cypress Street / Drainage Canal	In Julian B. Lane Park										
105608	West Davis Boulevard Bridge	West Davis Island				2						
105908	Reo Street / Saltwater Bayou	Reo St. 65 ft S. of Cypress St.										
105622	Bayshore Boulevard / Crayfish Camp	0.6 Mile N of MacDill AFB				4					1	
105501	Brorein Street	Hillsborough River										
105502	Cass Street Draw Bridge	Hillsborough River										
105915	New Tampa Boulevard / Trout Creek	New Tampa Blvd. 0.4 Mile W. of CR-581				6	245	27	10		1	
5	Westshore Blvd. over Saltwater Canal	150 ft S. of W. Euclid Avenue	1							••• ***		5
16	W. Sylvan Ramble St. over Drainage Creek	At Woodmere Road		16			 ;			<u></u>	and the second se	1/2
	TOTAL	TOTAL	4	16	0	39	777	108	20	1	2	° .2

*See bridge notes sheet 2

Quantity shown for each bridge is estimated from FDOT bridge inspection reports. However, actual quantity for repair of each bridge will vary.

ENGINEER OF RECORD.	DRAWN, KES DATE: 9 /04
VOLKERT A ASSOCIATES, INC.	DESIGNED. RJH DATE.9/04
	CHECKED, TCW DATE 9/04
3409 West Lemon Street Tampa, Florida 33609	REVIEWED, RJH DATE.9/04
Certificate of Authorization No. 4641	APPROVED. TCW DATE 9/04
Robert J. Harrigan, Jr., P.E. No. 45236	APPROVED DATE 9/04 NOI DATE REVISION BY

CITY OF TAMPA DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION

00-0	400-1	400-2	400-4	400-32	401-70-5	411-2	
Conc. Class S (CY)	Conc. Class I (misc.) (CY)	Conc. Class II (Approach Slab) (CY)	Conc. Class IV (CY)	Concrete for Joint Repair (CY)	Restore Spalled Areas (CF)	Cracks, Inject & Seal, Struct Rehab (LF)	
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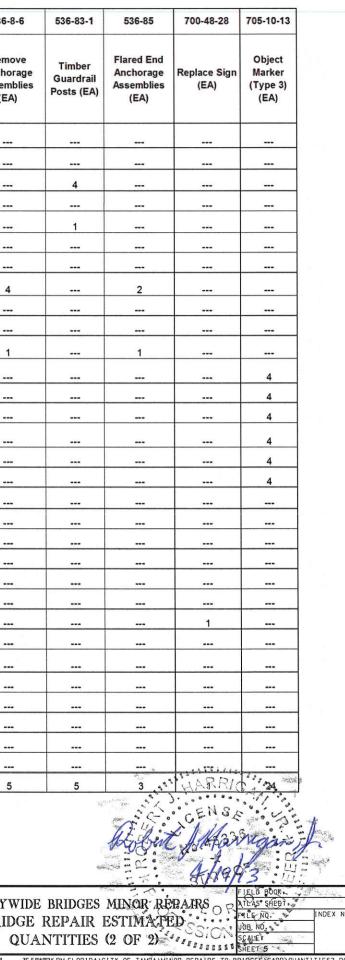
4/18/2013 45 DOWORK PM FLORIDA CITY OF TAMPA MINOR REPAIRS TO BRIDGES \CADD \OUANTITIESI.DGN

		430-950	457-1-22	458-1-21	460-95	514-71-2	515-2 <mark>-</mark> 313	520	522-1	524-2	530-1	536-1-1	536-7	536-8	536-8
BRIDGE NUMBER	BRIDGE NAME	Desilting Box Culvert (CY)	Structural Pile Jacket (LF)	Bridge Deck Exp. Joint (LF)	Structural Steel (LB)	Plastic Filter Fabric (SY)	Pedestrian / Bridge Railing (LF)	Curbs, Curb & Gutter (LF)	4" Concrete Sidewalk (SY)	Conc. Slope Pavement (Non- Reinforced 4") (SY)	Riprap (Sand Cement) (CY)	Guardrail (LF)	Remove Guardrail (LF)	Bridge Anchorage Assemblies (EA)	Remo Ancho Assem (EA
105610	Ashley Street Ramp			147				8 Type D							
105600	Eugene Holtsinger Bridge			15	20*	160			3		45			d ⁺ a	
105612	31st Street / 29th Street Outfall				· · · · · · · · · · · · · · · · · · ·									····.	
105605	Davis Island Bridge		10										"		
105627	Neptune Way / Shorecrest Canal			69						3	1				
105623	Garden Club Drive / Lily Canal													:	
105912	Himes Avenue over Rusty Canal		,			_ 1					. 1				
100086	CR 585 Rowlett Park Drive			16		70					20	100	100	2	4
105629	S. Harbour Island Blvd. / Garrison Channel					2	<u></u>				1	<u></u>			
105618	Culbreath Isles Dr / Salt Bayou														
105906	Apex Drain at 43rd Street					4					∛ ∵[1	13	13		1
8	Schiller St. over Drainage Canal	34				200		10 Type F							
6	Emerson St. over Drainage Canal	23													
13	Swann Circle over Drainage Creek										a		· '		
17	Swann Circle over Drainage Creek							61 Type D					}		
11	S. Parkview St. over Saltwater Bayou				·										
7	West Keats St. over Drainage Canal	35			· · · · ·										
100507	Lois Avenue over Henry St. Canal														
105625	On-Ramp to Davis Island Boulevard		20											/	
105606	Plant Avenue Bridge			244] di	2	282			x	1				
105626	Off-Ramp to Tampa General Hospital		* ,								·		·		
105628	Beneficial Drive / Garrison Channel			3*											
105913	Cypress Street / Drainage Canal											I		()	
105608	West Davis Boulevard Bridge			:		3				· · ···	1			···· ; `	
105908	Reo Street / Saltwater Bayou										1				
105622	Bayshore Boulevard / Crayfish Camp			69		85			3**		25)	
105501	Brorein Street				- 14 7 - 21										
105502	Cass Street Draw Bridge									·					
105915	New Tampa Boulevard / Trout Creek			68		60					18*				
5	Westshore Blvd. over Saltwater Canal				·	6					1			²	
16	W. Sylvan Ramble St. over Drainage Creek														
	TOTAL	92	30	631	20	593	282	79	6	3	97	113	113	2	5

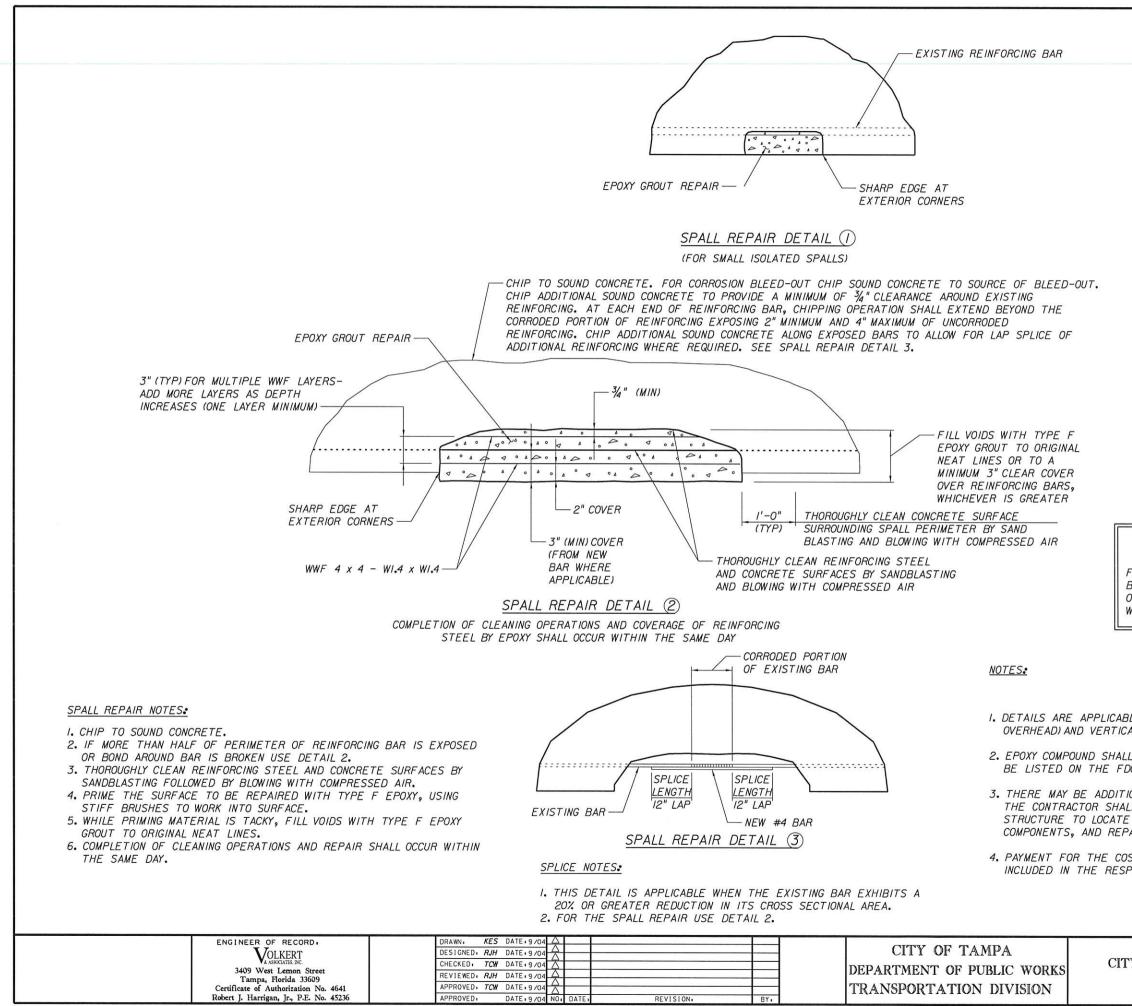
* See bridge notes sheet 2

** Includes handrail anchor bolts and remounting handrail with replacement sidewalk (4LF), see sheet 8

	ENGINEER OF RECORD. VOLKERT 3409 West Lemon Street Tampa, Florida 33609 Certificate of Authorization No. 4641 Robert J. Harrigan, Jr., P.E. No. 45236	DRAWN. KES DATE : 9 /04 DESIGNED. RJH DATE : 9 /04 CHECKED. TCW DATE : 9 /04 REVIEWED. RCH DATE : 9 /04 APPROVED. TCW DATE : 9 /04 APPROVED. TCW DATE : 9 /04	REVISION, BY,	CITY OF TAMPA DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION	CITYW BRID Q
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4/18/2013 35 58WERK PM FLORIDA CITY OF TAMPA MINOR REPAIRS TO BRIDGES CADD QUANTITIES2.DGN

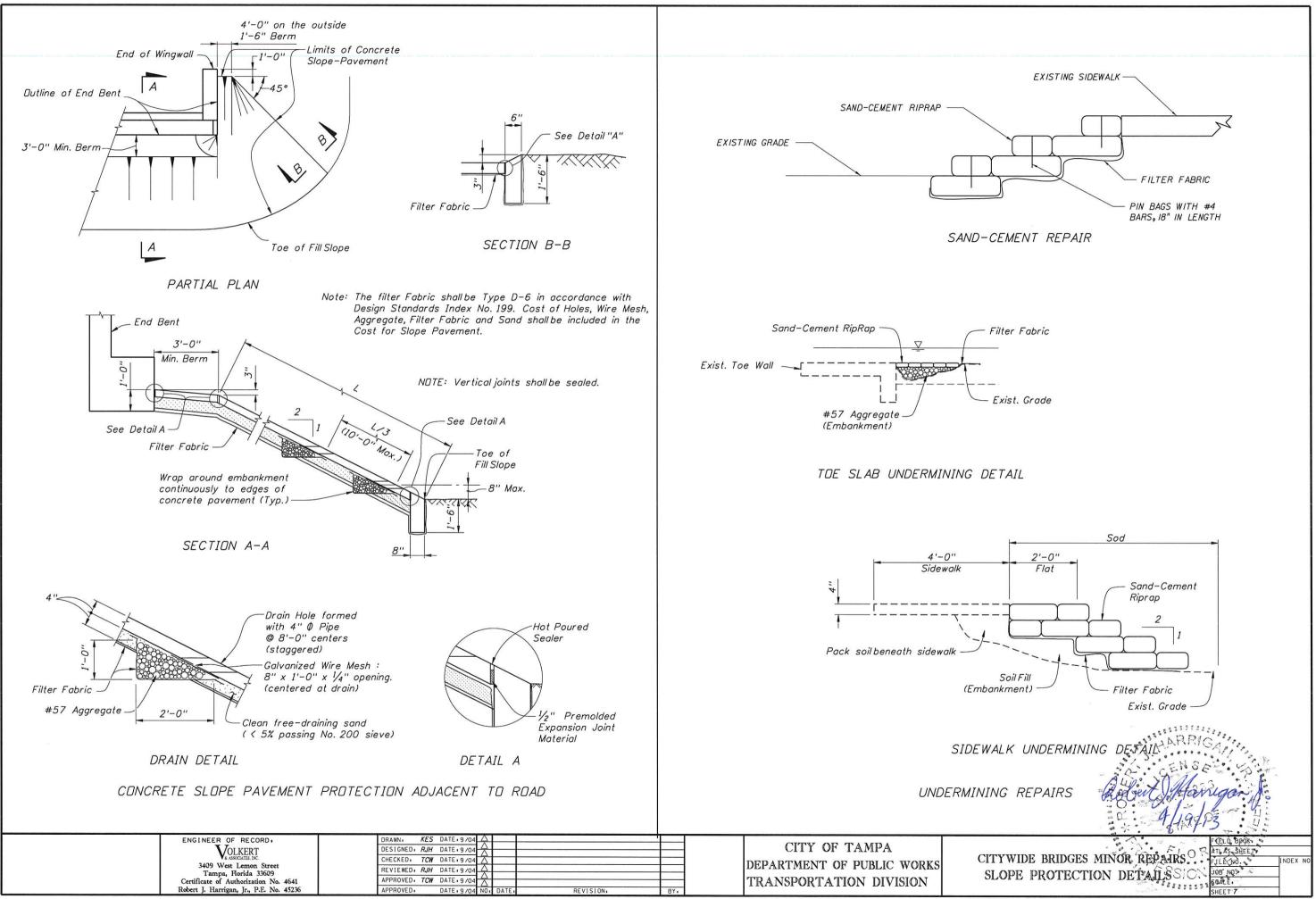


SPALL REPAIR DETAIL (4)

FOR REPAIR OF UNDERWATER SPALL USE SPEED CRETE BLUE LINE AS MANUFACTURED BY TAMMS INDUSTRIES OR ENGINEER APPROVED EQUAL APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

LE TO ALL ORIENTATIONS: HORIZONTAL (INCLUDING AL.
BE SUITABLE FOR OVERHEAD WORK AND SHALL OT QUALIFIED PRODUCTS LIST.
ONAL CRACKS AND SPALLS BEYOND THOSE ANTICIPATED. L PERFORM A THOROUGH INVESTIGATION OF THE CRACKS, SPALLS AND DELAMINATION IN THE BRIDGE AIR THOSE AS DIRECTED BY THE ENGINEER STS OF THE ABOVE INVESTIGATION SHAEL BE PECTIVE ITEMS. ACCM AMAMMAN
YWIDE BRIDGES MINOR REPAIRS

4/4/2513WORK + OF JOA WEITY OF TAMPA MINOR REPAIRS TO BRIDGES CADD SPALL REPAIR DETAILS.DON



4/4 830 WORK - RIOPBID & SC NAM OF TAMPA MINOR REPAIRS TO BRIDGES \CADD \SLOPEPROTECTIONDETAILS.DGN

