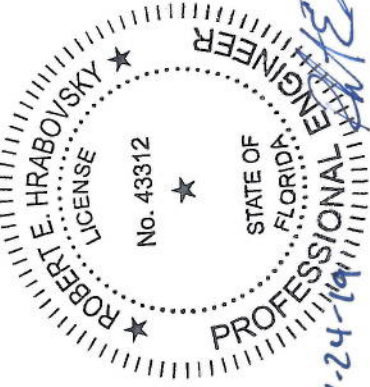


SHEET INDEX

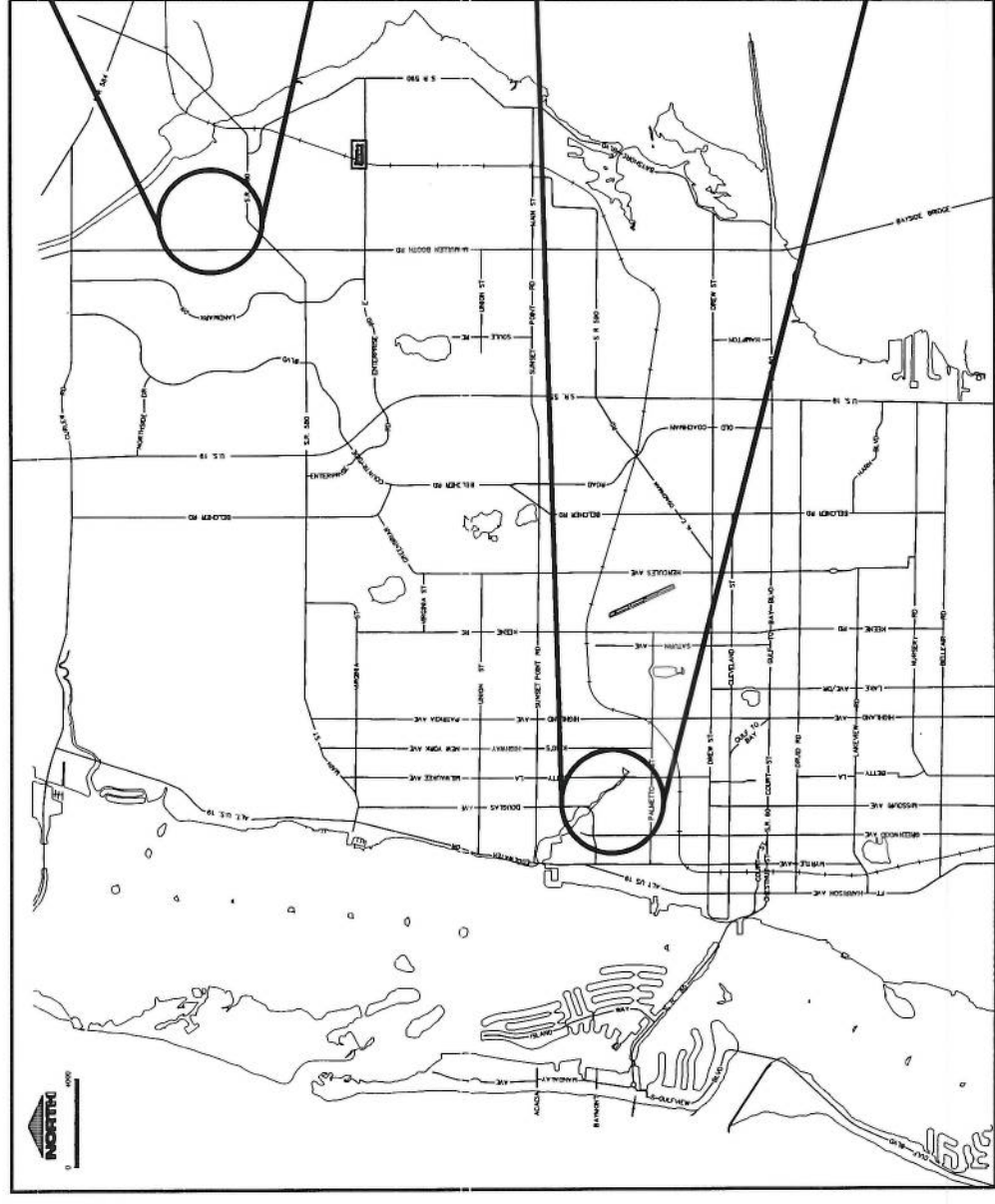
SHEET #	SHEET DESCRIPTION
G-00-001	Cover Sheet
G-00-101	General Repair Details
G-10-101	NORTHEAST WRF Photo Locations
G-10-501	NORTHEAST WRF Photos
G-10-502	NORTHEAST WRF Photos
G-20-101	MARSHALL STREET WRF Photo Locations
G-20-501	MARSHALL STREET WRF Photos



**CLEARWATER**  
BRIGHT AND BEAUTIFUL • BAY TO BEACH

**MARSHALL STREET -  
NORTHEAST WRF  
CRACK SEALING (FDEP)**

**BID SUBMITTAL**



Project  
Location  
NEWRF  
3290 SR 580  
CLEARWATER, FL 34695

Project  
Location  
MSWRF  
1605 HARBOR DR  
CLEARWATER, FL 33755



**CITY OFFICIALS**

George N. Cretekos  
Jay Polglaze  
Dr. Bob Cundiff  
David Allbritton  
Hoyt Hamilton  
William B. Horne II

Mayor  
Councilmember  
Councilmember  
Councilmember  
Councilmember  
City Manager

**TARA KIVETT, P.E.**  
City Engineer

Approved For  
Construction

Date Approved

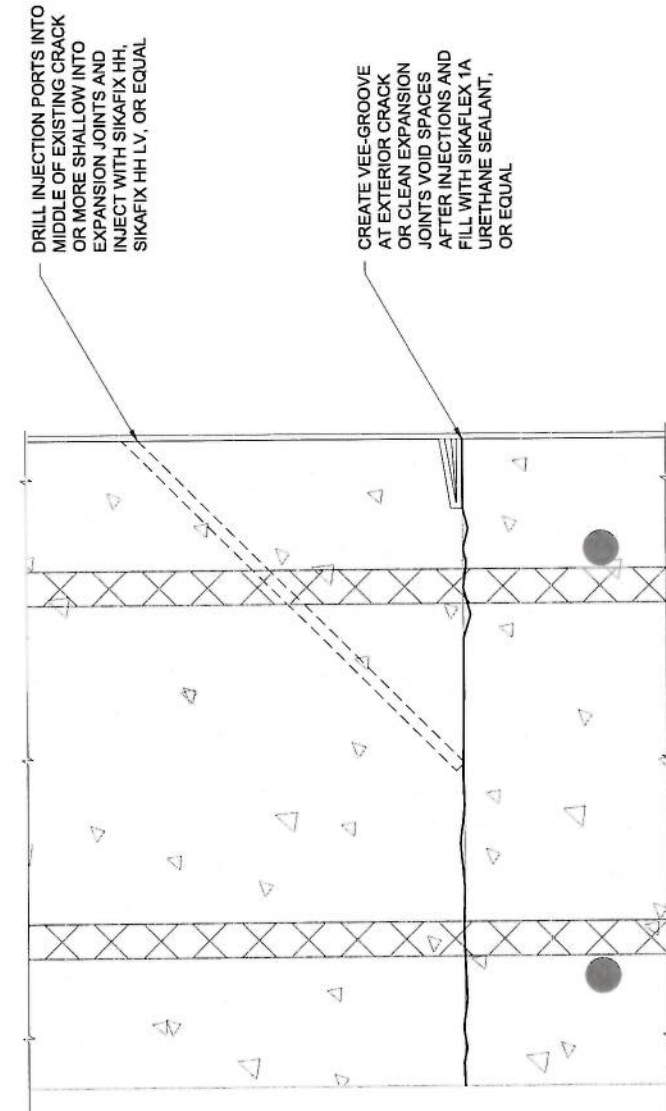
*Tara Kivett*  
CITY ENGINEER TARA KIVETT, P.E. 06611

*3/6/2020*



A B C D E F G H I J K L M N O P

10 9 8 7 6 5 4 3 2 1



URETHANE INJECTION WITH SEALANT  
STANDARD DETAIL A  
6" = 1'-0"

COATING OF CONCRETE SHALL BE LATEX AND MATCH THE COLOR OF THE EXISTING CONCRETE. PERFORM SURFACE PREPARATION PER COATING MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPLY TWO 2.0MIL DFT TOP COATS OF TMEC SERIES 1029 (ENDURATONE), OR EQUAL.

- Coating System Identification: L-1
- Coating Material: Latex
- Surfaces: Concrete, concrete patches.
- Service Condition: Interior and exterior including existing exterior coated concrete.
- Surface Preparation:

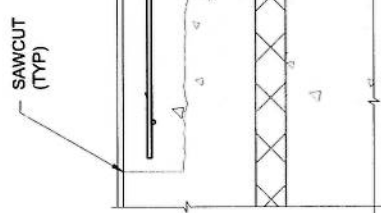
Concrete: Concrete surfaces shall be allowed to dry to the moisture content recommended by the coating manufacturer. Moisture content may be tested by the Contractor with a Delmhorst Instrument Company moisture detector, or equal. Loose concrete and laitance shall be removed from surfaces.

Existing Coated Concrete: Remove all loose coating down to a sound substrate or intact, well-adhered existing coating by scraping or other means. Then, abrade all surfaces to achieve a 0.5- to 1.5 mil uniform profile and vacuum clean to remove all loose dirt, paint chips, and dirt.

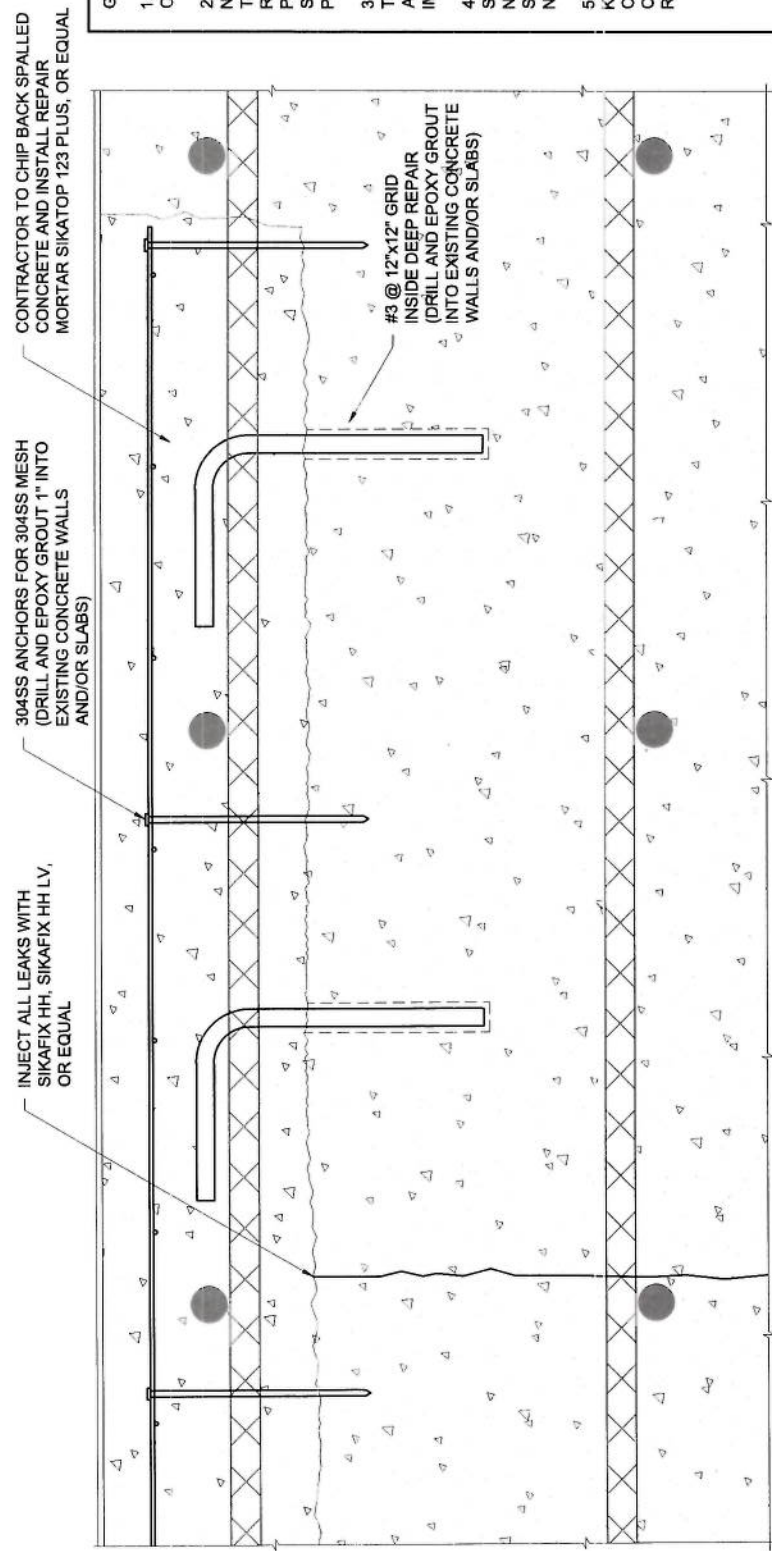
Application: Field

Drying time between coats shall be as recommended by teh coating, manufacturer.

System Thickness: 4 mils total dry film.

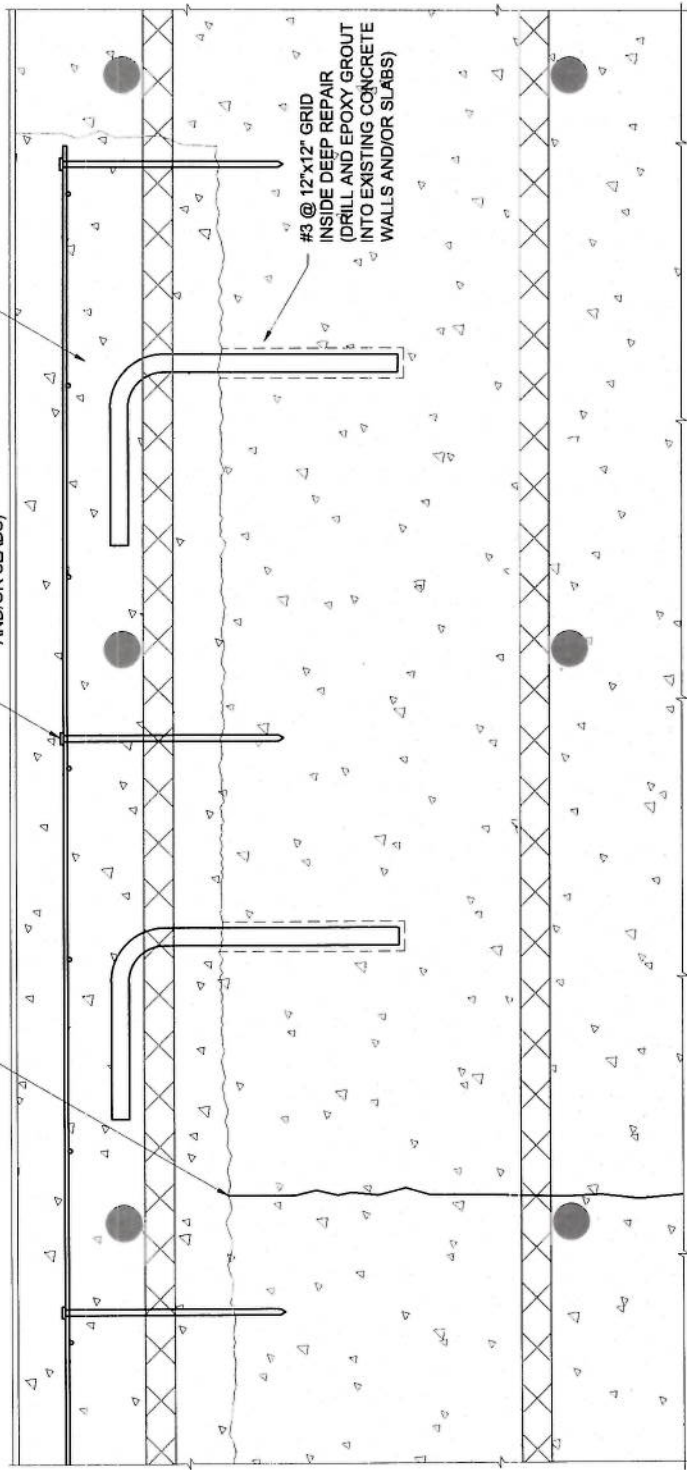


0.5" TO 2.0" DEEP REPAIR  
BEFORE EXISTING REBAR  
STANDARD DETAIL B  
6" = 1'-0"



3.5" TO 4.5" DEEP REPAIR  
±1" BEHIND EXISTING REBAR  
STANDARD DETAIL C  
6" = 1'-0"

CONTRACTOR TO CHIP BACK SPALLED CONCRETE AND INSTALL REPAIR MORTAR SIKATOP 123 PLUS, OR EQUAL



CONTRACTOR TO CHIP BACK SPALLED CONCRETE AND INSTALL REPAIR MORTAR SIKATOP 123 PLUS, OR EQUAL

#3 @ 12"x12" GRID  
INSIDE DEEP REPAIR  
(DRILL AND EPOXY GROUT INTO EXISTING CONCRETE WALLS AND/OR SLABS)

GENERAL NOTES:

1. CONTRACTOR TO PROTECT EXISTING CONDUIT AND WATER LINES DURING REPAIRS.
2. CONTRACTOR TO PROVIDE 5 BUSINESS DAYS NOTICE TO THE CITY FOR ALL CONDUIT TEMPORARY ADJUSTMENT TO FACILITATE REPAIRS. CITY REPRESENTATIVE SHALL BE PRESENT DURING TEMPORARY CONDUIT SUPPORTING OR ADJUSTMENT TO MAINTAIN PLANT OPERATIONS.
3. CONTRACTOR TO SUBMIT A DETAIL FOR TEMPORARY CONDUIT SUPPORT FOR APPROVAL BY THE CITY, PRIOR TO IMPLEMENTATION.
4. FOR ALL LOCATIONS WHERE CONDUIT SUPPORTS ARE RELOCATED, AS DEEMED NECESSARY BY THE CONTRACTOR, THE SUPPORT SHALL BE REPLACED IN KIND WITH NEW ALUMINUM SUPPORT.
5. CONTRACTOR TO SUBMIT A CONDUIT REPAIR KIT TO BE REVIEWED AND APPROVED BY THE CITY, WHICH MAY BE USED IN THE EVENT IF A CONDUIT IS DAMAGED DURING TEMPORARY RELOCATION.

**Brown and Caldwell**  
TAMPA, FLORIDA

SUBMITTED: ROBERT HRABOVSKY P.E.  
PROJECT MANAGER  
APPROVED: TODD BOSSO P.E.  
DRAWING CALDWELL

DESIGNED:	R. HRABOVSKY
DRAWN:	R. BLUMENSHINE
CHECKED:	P. WALKER
APPROVED:	T. BOSSO

STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
ROBERT E. HRABOVSKY  
LICENSE No. 43312

ZONE	REV.	BY	DATE	APP.

CITY OF CLEARWATER  
100 SOUTH MYRTLE AVENUE, SUITE 220  
CLEARWATER, FL 33756

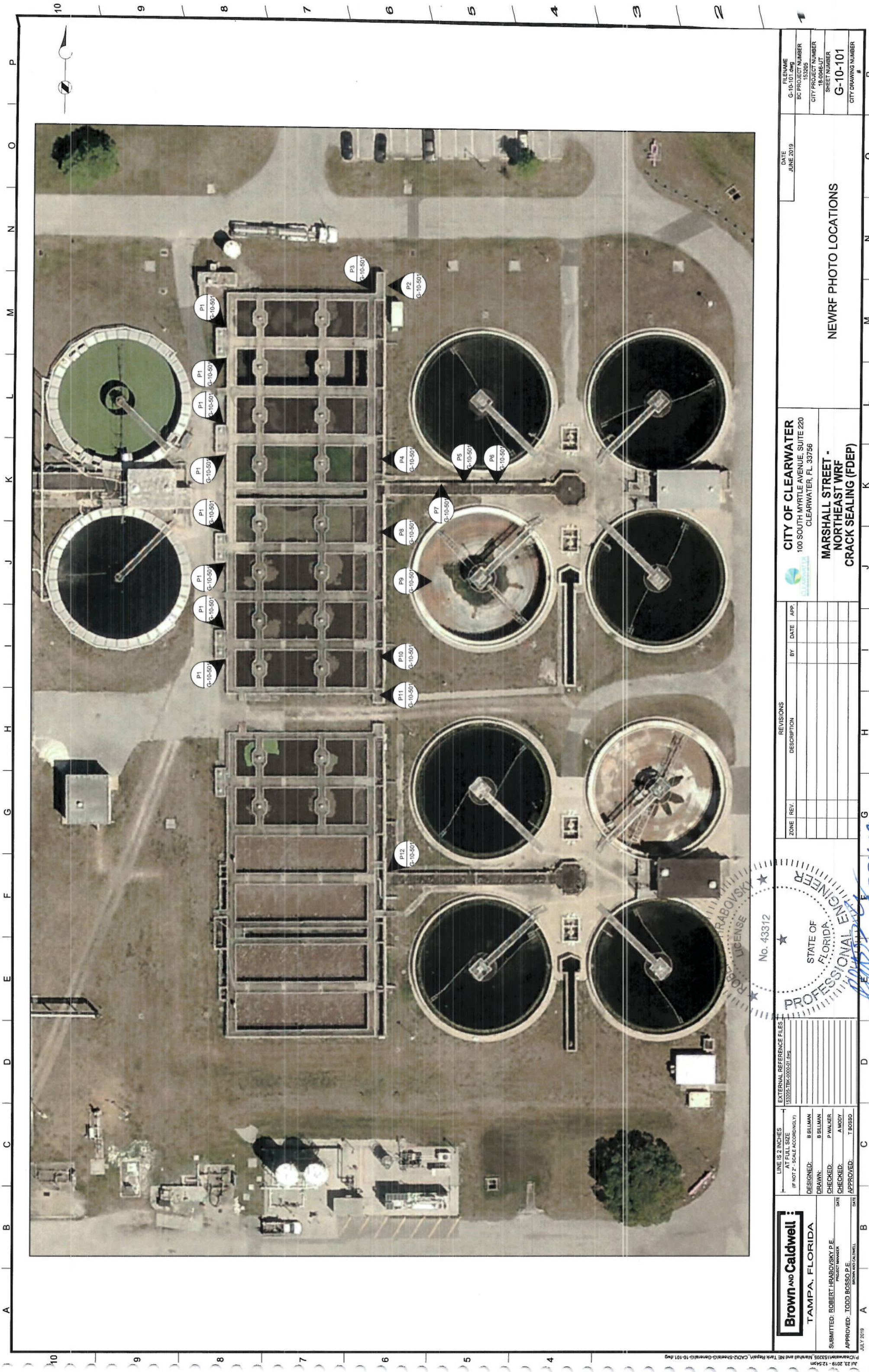
MARSHALL STREET -  
NORTHEAST WRF  
CRACK SEALING (FDEP)

GENERAL REPAIR DETAILS

FILENAME G-00-101.dwg
SC PROJECT NUMBER 153205
CITY PROJECT NUMBER 18-0046-UT
SHEET NUMBER G-00-101
CITY DRAWING NUMBER #

DATE  
JUNE 2019





**Brown and Caldwell**  
TAMPA, FLORIDA

SUBMITTED: ROBERT HRABOVSKY P.E.  
PROJECT MANAGER  
APPROVED: TODD BOSSO P.E.  
BROWN AND CALDWELL

DESIGNED:	B SILLMAN
DRAWN:	B SILLMAN
CHECKED:	P WALKER
CHECKED:	A MODOY
APPROVED:	T BOSSO

STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
No. 43312  
ROBERT HRABOVSKY  
LICENSE

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

**CITY OF CLEARWATER**  
100 SOUTH MYRTLE AVENUE, SUITE 220  
CLEARWATER, FL 33756  
**MARSHALL STREET -  
NORTHEAST WRF  
CRACK SEALING (FDEP)**

DATE  
JUNE 2019  
**NEWRF PHOTO LOCATIONS**

FILENAME G-10-101.dwg
BC PROJECT NUMBER 153205
CITY PROJECT NUMBER 12-0046-UT
SHEET NUMBER G-10-101
CITY DRAWING NUMBER #

7-24-19

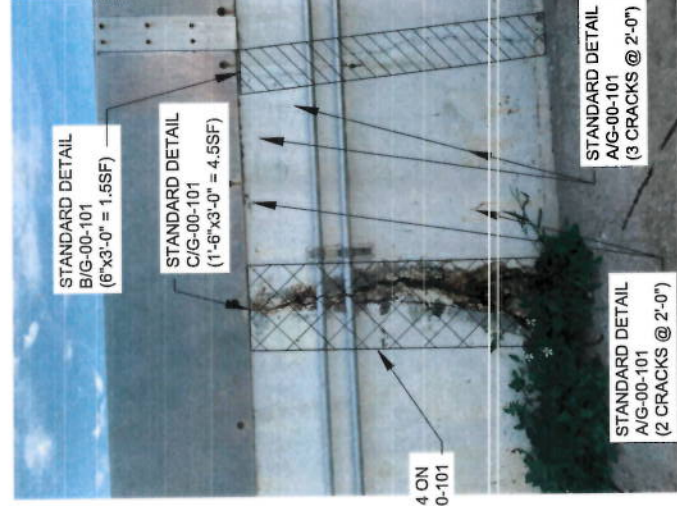




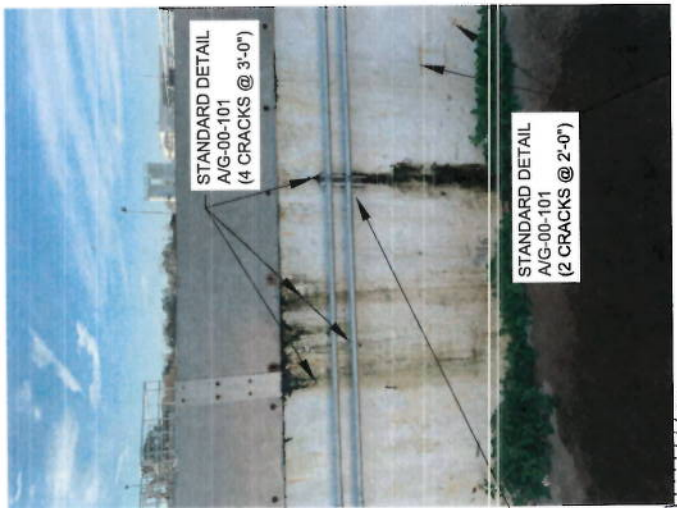
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G-10-101



**P2** PHOTO 2  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-10-101



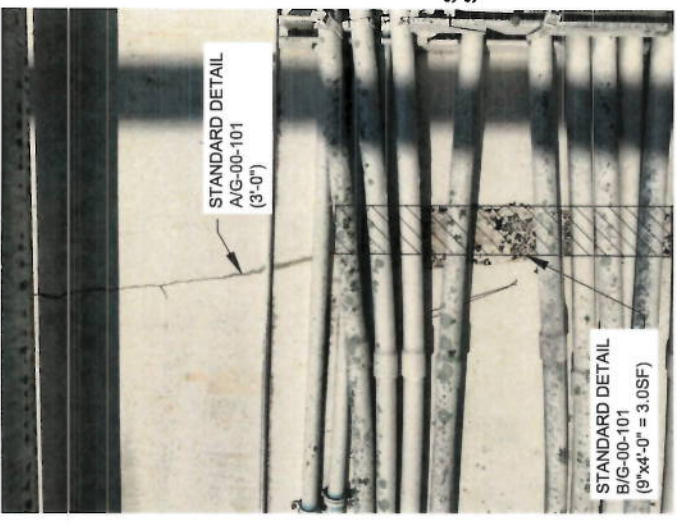
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G-10-101



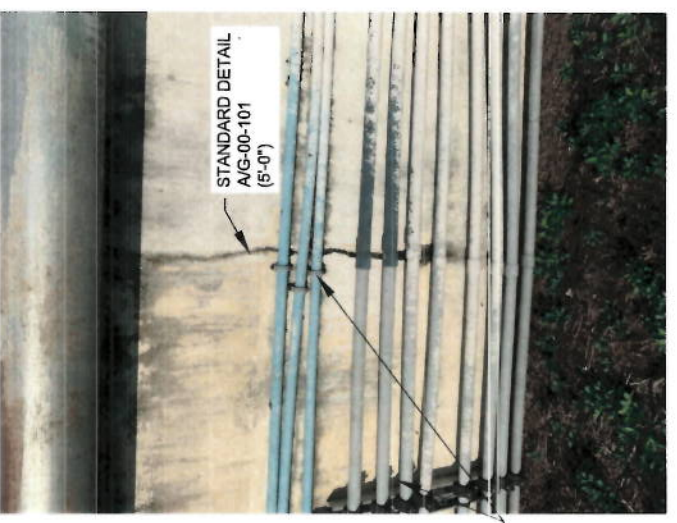
**P6** PHOTO 6  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-10-101



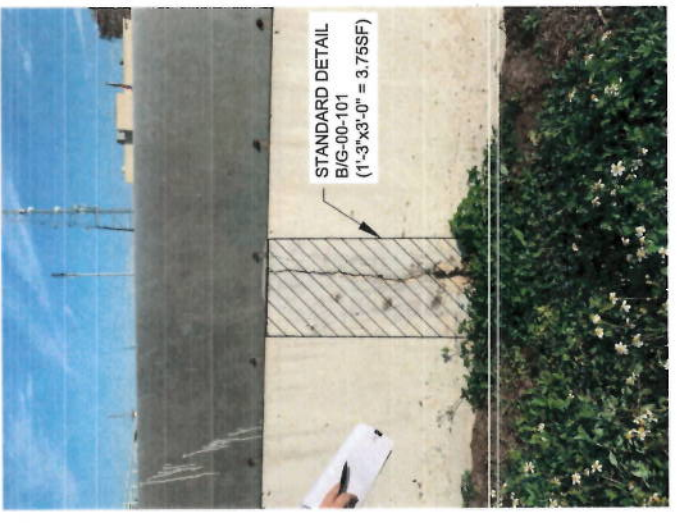
**P3** PHOTO 3  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-10-101



**P4** PHOTO 4  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-10-101



**P8** PHOTO 8  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-10-101



**P7** PHOTO 7  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-10-101

**Brown and Caldwell**  
TAMPA, FLORIDA

SUBMITTED: ROBERT HRABOVSKY P.E.  
PROJECT MANAGER  
APPROVED: TODD BOSSO P.E.  
BROWN AND CALDWELL

LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" - SCALE ACCORDINGLY)

DESIGNED: B SILLMAN  
DRAWN: B SILLMAN  
CHECKED: P WALKER  
DATE: 08/10/2019

EXTERNAL REFERENCE FILES  
13205-TBK-0000-01.dwg

REVISIONS  
ZONE REV. DESCRIPTION BY DATE APP.

CITY OF CLEARWATER  
100 SOUTH MYRTLE AVENUE, SUITE 220  
CLEARWATER, FL 33756

**MARSHALL STREET -  
NORTHEAST WRF  
CRACK SEALING (FDEP)**

FILENAME  
G-10-501.dwg  
BC PROJECT NUMBER  
153205  
CITY PROJECT NUMBER  
18-0046-UT  
SHEET NUMBER  
G-10-501  
CITY DRAWING NUMBER  
#

DATE  
JUNE 2019

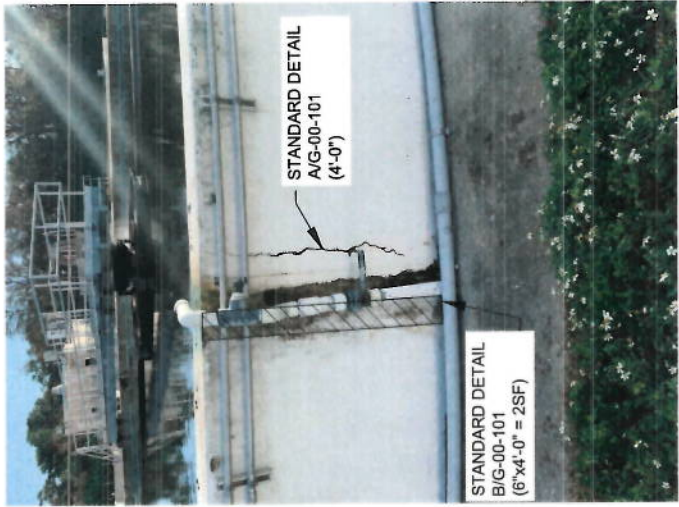
NORTHEAST WRF PHOTOS

DATE  
JUNE 2019

STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
ROBERT E. HRABOVSKY  
LICENSE NO. 43312  
P6

7-24-19





**P9** PHOTO 9  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-10-101



**P10** PHOTO 10  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-10-101



**P11** PHOTO 11  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-10-101



**P12** PHOTO 12  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-10-101



**Brown and Caldwell**  
TAMPA, FLORIDA

SUBMITTED: ROBERT HRABOVSKY P.E.	DATE:
PROJECT MANAGER	
APPROVED: TODD BOSSO P.E.	DATE:
BROWN AND CALDWELL	

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" - SCALE ACCORDINGLY)	EXTERNAL REFERENCE FILES
DESIGNED: B SILLMAN	153205-TBA-020-01.dwg
DRAWN: B SILLMAN	
CHECKED: P WALKER	
CHECKED: R HRABOVSKY	
APPROVED: T BOSSO	

STATE OF FLORIDA  
PROFESSIONAL ENGINEER

*Robert E. Hrabovsky* 7-24-19

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

**CITY OF CLEARWATER**  
100 SOUTH MYRTLE AVENUE, SUITE 220  
CLEARWATER, FL. 33756

**MARSHALL STREET -  
NORTHEAST WRF  
CRACK SEALING (FDEP)**

**NORTHEAST WRF PHOTOS**

FILENAME G-10-502.dwg	DATE JUNE 2019
BC PROJECT NUMBER 153205	
CITY PROJECT NUMBER 18-0046-JT	
SHEET NUMBER G-10-502	
CITY DRAWING NUMBER #	





**Brown and Caldwell**  
TAMPA, FLORIDA

SUBMITTED: ROBERT HRABOVSKY P.E.  
PROJECT MANAGER  
APPROVED: TODD BOSSO P.E.  
BROWN AND CALDWELL

LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" - SCALE ACCORDINGLY)

DESIGNED:	B SILLMAN
DRAWN:	B SILLMAN
CHECKED:	P WALKER
CHECKED:	A MOODY
APPROVED:	T BOSSO

EXTERNAL REFERENCE FILES  
153205-TBRC-0000-01.dwg

STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
R. E. HRABOVSKY  
LICENSE NO. 43512

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

**CITY OF CLEARWATER**  
100 SOUTH MYRTLE AVENUE, SUITE 220  
CLEARWATER, FL. 33756

**MARSHALL STREET -  
NORTHEAST WRF  
CRACK SEALING (FDEP)**

DATE  
JUNE 2019

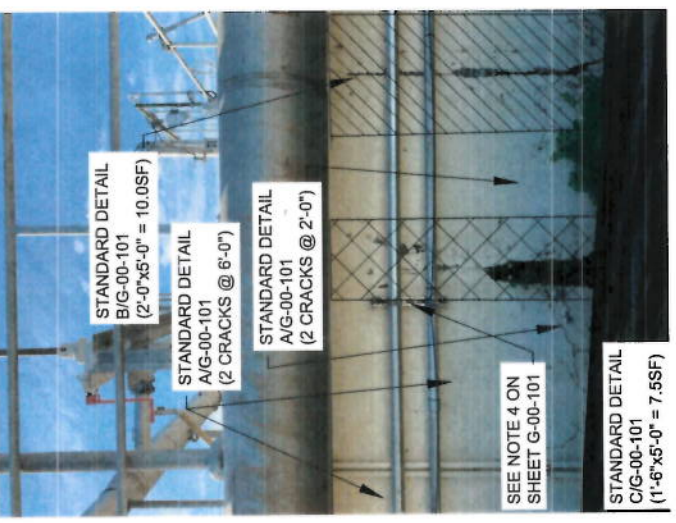
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CITY PROJECT NUMBER 18-0046LJT
SHEET NUMBER G-20-101
CITY DRAWING NUMBER #

MSWRF PHOTO LOCATIONS





**P13** PHOTO 13  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-20-101



**P14** PHOTO 14  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-20-101



**P15** PHOTO 15  
SCALE: NTS PHOTO TAKEN 09/28/2018  
G-20-101



**P16** PHOTO 16  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-20-101



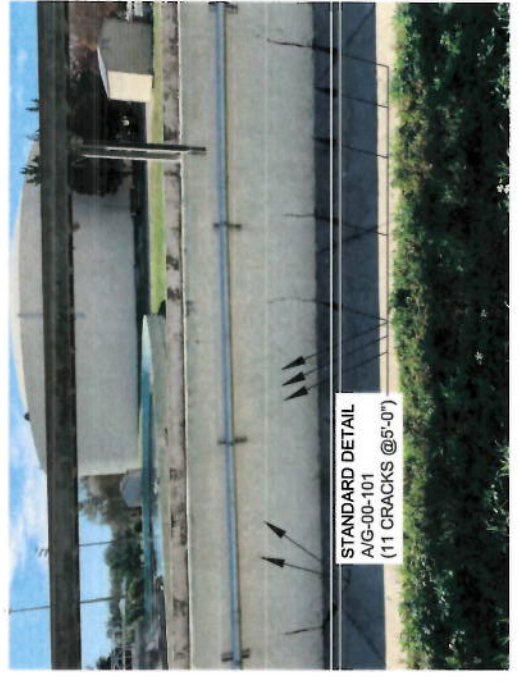
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SCALE: NTS PHOTO TAKEN 02/08/2019  
G-20-101



**P18** PHOTO 18  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-20-101



**P19** PHOTO 19  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-20-101



**P20** PHOTO 20  
SCALE: NTS PHOTO TAKEN 02/08/2019  
G-20-101

**Brown and Caldwell**  
TAMPA, FLORIDA

SUBMITTED: ROBERT HRABOVSKY P.E.  
PROJECT MANAGER  
APPROVED: TODD BOSSO P.E.  
BROWN AND CALDWELL

LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" - SCALE ACCORDINGLY)

DESIGNED: B. SILLMAN  
DRAWN: B. SILLMAN  
CHECKED: P. WALKER  
DATE: \_\_\_\_\_  
APPROVED: T. BOSSO  
DATE: \_\_\_\_\_

EXTERNAL REFERENCE FILES  
153205-TBK-0000-01.dwg

REVISIONS  
ZONE REV. DESCRIPTION BY DATE APP.

REVISIONS  
ZONE REV. DESCRIPTION BY DATE APP.

CITY OF CLEARWATER  
100 SOUTH MYRTLE AVENUE, SUITE 220  
CLEARWATER, FL 33756

**MARSHALL STREET -  
NORTHEAST WRF  
CRACK SEALING (FDEP)**

DATE: JUNE 2019  
FILENAME: G-20-501.dwg  
BC PROJECT NUMBER: 153205  
CITY PROJECT NUMBER: 18-0048-JT  
SHEET NUMBER: G-20-501  
CITY DRAWING NUMBER: #

**MARSHALL STREET WRF PHOTOS**