



CORRECTIVE ACTION NUMBER
110

28 NON-FUNCTIONING DIRECTIONAL LIGHT
K08-E-501 SCALE: N.T.S.



CORRECTIVE ACTION NUMBER
125

29 MISSING RECEPTACLE COVER
K08-E-507 SCALE: N.T.S.
K08-E-508



CORRECTIVE ACTION NUMBER
125

30 MISSING RECEPTACLE COVER
K08-E-508 SCALE: N.T.S.



CORRECTIVE ACTION NUMBER
125

31 MISSING RECEPTACLE COVER
K08-E-508 SCALE: N.T.S.



CORRECTIVE ACTION NUMBER
125

32 MISING RECEPTACLE COVER
K08-E-506 SCALE: N.T.S.



CORRECTIVE ACTION NUMBER
123

33 PAINTED FLOOR ARROW DETAILS
K08-E-504 SCALE: N.T.S.



CORRECTIVE ACTION NUMBER
104

34 NON-FUNCTIONING EXIT FIXTURE
K08-E-501 SCALE: N.T.S.
K08-E-504



CORRECTIVE ACTION NUMBER
120

35 CORRODED CONDUIT
K08-E-501 SCALE: N.T.S.

GFP

A Gannett Fleming/Parsons
JOINT VENTURE

COMMONWEALTH OF VIRGINIA

PROFESSIONAL ENGINEER

DESIGNED <u>M. RICHARDS</u> 01/2018 DATE			REFERENCE DRAWINGS		REVISIONS			<div><div><div>M</div><div>metro</div></div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>OFFICE OF DESIGN AND CONSTRUCTION</div><div>IRPG - FIXED FACILITIES</div><div><div><div><div>APPROVED</div><div>01/25/2018</div></div><div><div>JOHN PURDY</div><div>ENGINEERING MANAGER</div></div></div><div><div><div>APPROVED</div><div>01/25/2018</div></div><div><div>MONTE A. RICHARDS, P.E.</div><div>ENGINEER OF RECORD</div></div></div></div></div>			REHABILITATION OF WMATA PARKING FACILITIES K08 - VIENNA NORTH PARKING GARAGE ELECTRICAL DEFICIENCY PHOTOGRAPHS <input type="checkbox"/> CORRECTIVE ACTIONS REQUIRED				
			NUMBER	TITLE	DATE	NUM	DESCRIPTION				M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
DRAWN <u>R. PINNICK</u> 01/2018 DATE					01/25/2018	0	FINAL SUBMITTAL								
CHECKED <u>M. RICHARDS</u> 01/2018 DATE															
								M1301	FQ18064	N.T.S.	K08-E-513	480 of 503			



36 MISSING WALL HEATER COVER
K08-E-501 SCALE: N.T.S.



37 CORRODED CONDUIT
K08-E-501 SCALE: N.T.S.



38 MISSING WALL HEATER COVER
K08-E-501 SCALE: N.T.S.



39 CORRODED WIRE TROUGH
K08-E-501 SCALE: N.T.S.



40 CORRODED CONDUIT SUPPORT
K08-E-501 SCALE: N.T.S.



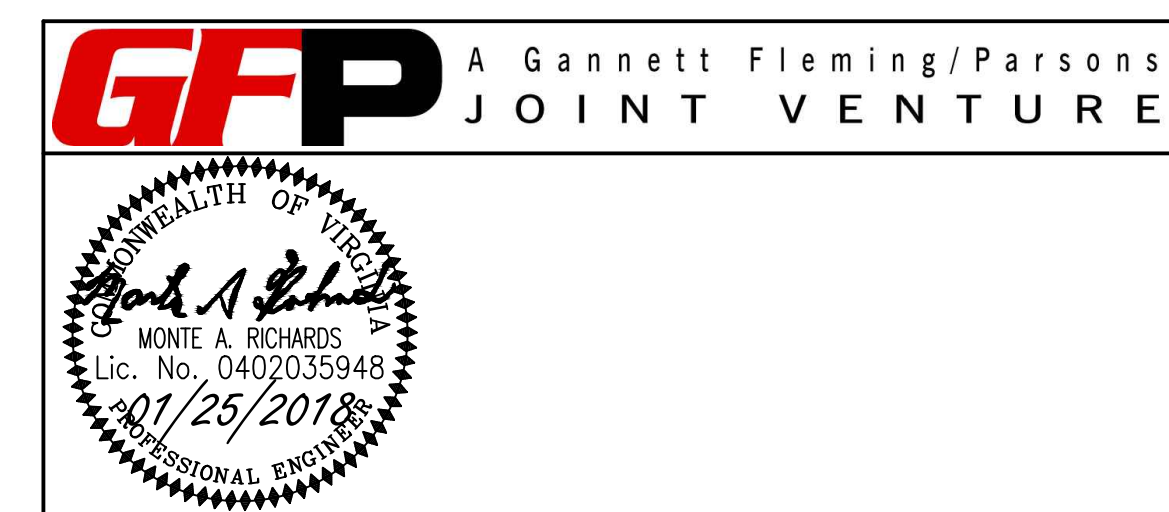
41 MISSING LIGHT FIXTURE
K08-E-507 SCALE: N.T.S.



42 CORRODED CONDUIT / CORRODED CONDUIT SUPPORT
K08-E-502 SCALE: N.T.S.



43 CORRODED CONDUIT / CORRODED J-BOX
K08-E-504 SCALE: N.T.S.



DESIGNED <u>M. RICHARDS</u> 01/2018 DATE			REFERENCE DRAWINGS		REVISIONS			<div><div><div>M</div><div>metro</div></div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>OFFICE OF DESIGN AND CONSTRUCTION</div><div>IRPG - FIXED FACILITIES</div><div><div>APPROVED JOHN PURDY ENGINEERING MANAGER</div><div>01/25/2018 DATE</div><div><div>APPROVED MONTE A. RICHARDS, P.E. ENGINEER OF RECORD</div><div>01/25/2018 DATE</div></div></div></div>		REHABILITATION OF WMATA PARKING FACILITIES K08 - VIENNA NORTH PARKING GARAGE ELECTRICAL DEFICIENCY PHOTOGRAPHS <input type="checkbox"/> CORRECTIVE ACTIONS REQUIRED				
DRAWN <u>R. PINNICK</u> 01/2018 DATE			NUMBER	TITLE	DATE	NUM	DESCRIPTION			M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
CHECKED <u>M. RICHARDS</u> 01/2018 DATE					01/25/2018	0	FINAL SUBMITTAL			M1301	FQ18064	N.T.S	K08-E-514	481 of 503



CORRECTIVE ACTION NUMBER
123

44 CORRODED CONDUIT SUPPORT
K08-E-504 SCALE: N.T.S.





CORRECTIVE ACTION NUMBER
123

45 CORRODED CONDUIT SUPPORT AND J-BOX
K08-E-504 SCALE: N.T.S.

GFP

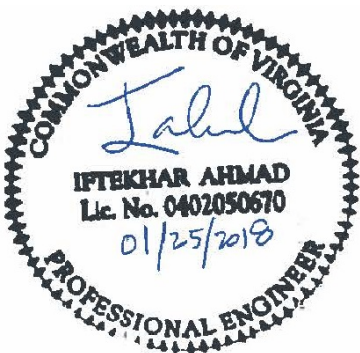
A Gannett Fleming/Parsons
JOINT VENTURE

COMMONWEALTH OF VIRGINIA

<div>DESIGNED <u>M. RICHARDS</u> 01/2018 DATE</div> <div>DRAWN <u>R. PINNICK</u> 01/2018 DATE</div> <div>CHECKED <u>M. RICHARDS</u> 01/2018 DATE</div>	REFERENCE DRAWINGS		REVISIONS			<div><div><div>M</div><div>metro</div></div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>OFFICE OF DESIGN AND CONSTRUCTION</div><div>IRPG - FIXED FACILITIES</div><div><div>APPROVED  01/25/2018 JOHN PURDY ENGINEERING MANAGER DATE</div><div><div>APPROVED  01/25/2018 MONTE A. RICHARDS, P.E. ENGINEER OF RECORD DATE</div></div></div></div>	REHABILITATION OF WMATA PARKING FACILITIES K08 - VIENNA NORTH PARKING GARAGE ELECTRICAL DEFICIENCY PHOTOGRAPHS <input type="checkbox"/> CORRECTIVE ACTIONS REQUIRED				
	NUMBER	TITLE	DATE	NUM	DESCRIPTION						
			01/25/2018	0	FINAL SUBMITTAL						
M NO.		CONTRACT NO.		SCALE		DRAWING NO.		SHEET NO.			
M1301		FQ18064		N.T.S.		K08-E-515		482 of 503			

INDEX OF DRAWINGS

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S-502	485 OF 503	TYPICAL REPAIR DETAILS 2 OF 19
S-503	486 OF 503	TYPICAL REPAIR DETAILS 3 OF 19
S-504	487 OF 503	TYPICAL REPAIR DETAILS 4 OF 19
S-505	488 OF 503	TYPICAL REPAIR DETAILS 5 OF 19
S-506	489 OF 503	TYPICAL REPAIR DETAILS 6 OF 19
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S-517	500 OF 503	TYPICAL REPAIR DETAILS 17 OF 19
S-518	501 OF 503	TYPICAL REPAIR DETAILS 18 OF 19
S-519	502 OF 503	TYPICAL REPAIR DETAILS 19 OF 19
P-500	503 OF 503	TYPICAL PLUMBING REPAIR DETAILS



GFP A Gannett Fleming / Parsons
JOINT VENTURE

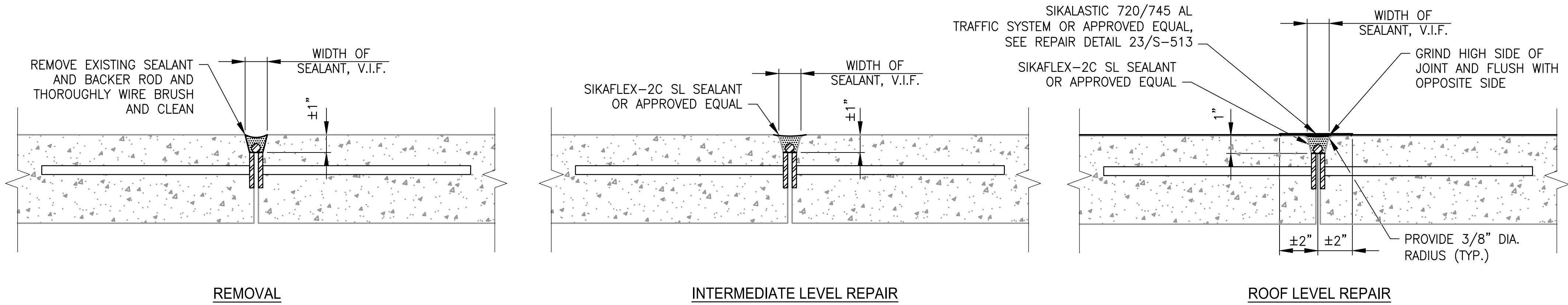
"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 42582

EXPIRATION DATE: 08/13/2018

- COMAR 09.23.03.10

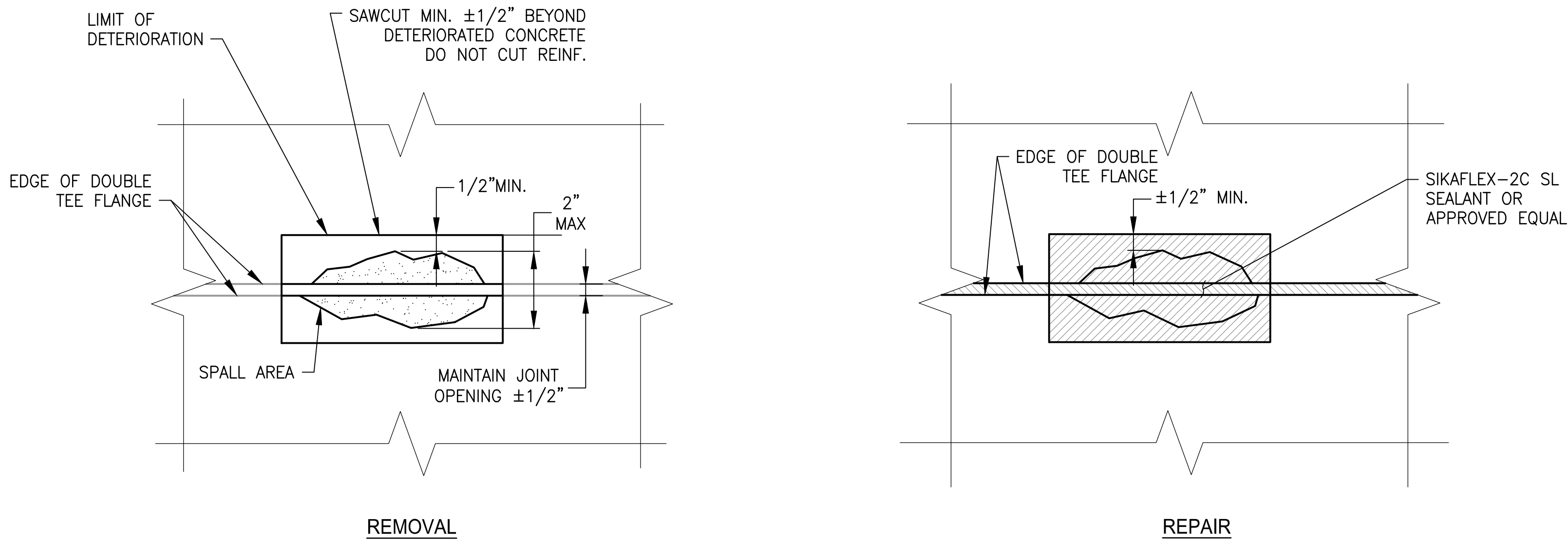
<div>DESIGNED <u>M. PARK</u> 01/2018 DATE</div> <div>DRAWN <u>L. NGUYEN</u> 01/2018 DATE</div> <div>CHECKED <u>I. AHMAD</u> 01/2018 DATE</div>	REFERENCE DRAWINGS		REVISIONS			<div> WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div> <div>OFFICE OF DESIGN AND CONSTRUCTION IRPG - FIXED FACILITIES</div> <div>APPROVED <u>[Signature]</u> 01/25/2018 JOHN PURDY ENGINEERING MANAGER DATE</div> <div>APPROVED <u>[Signature]</u> 01/25/2018 IFTEKHAR AHMAD ENGINEER OF RECORD DATE</div>	REHABILITATION OF PARKING GARAGES				
	NUMBER	TITLE	DATE	NUM	DESCRIPTION		INDEX OF DRAWINGS				
			01/25/2018	0	FINAL SUBMITTAL						
						M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.	
						M1301	FQ18064	NONE	G-002	483 of 503	



DETERIORATED SEALANT AT DOUBLE TEE BEAM JOINT

3 TYPICAL SEALANT REPAIR DETAIL AT DOUBLE TEE BEAM JOINT
S-502

NOT TO SCALE



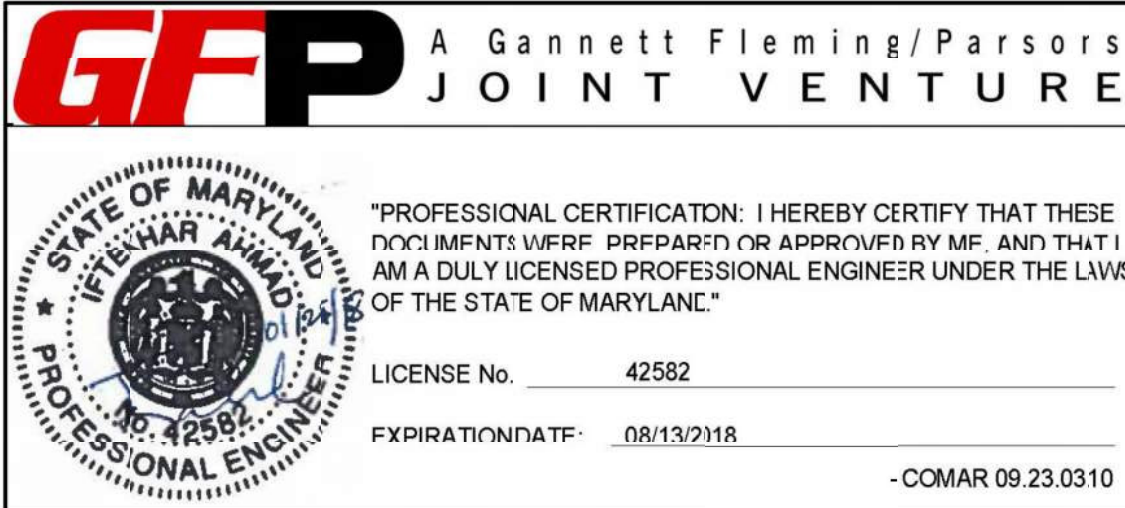
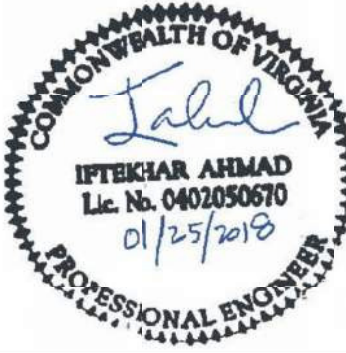
DOUELE TEE BEAM FLANGE SPALL WITH SEALANT

4 TYPICAL DOUBLE TEE BEAM FLANGE SPALL WITH SEALANT DETAIL (SPALL WIDTH <2")
S-502

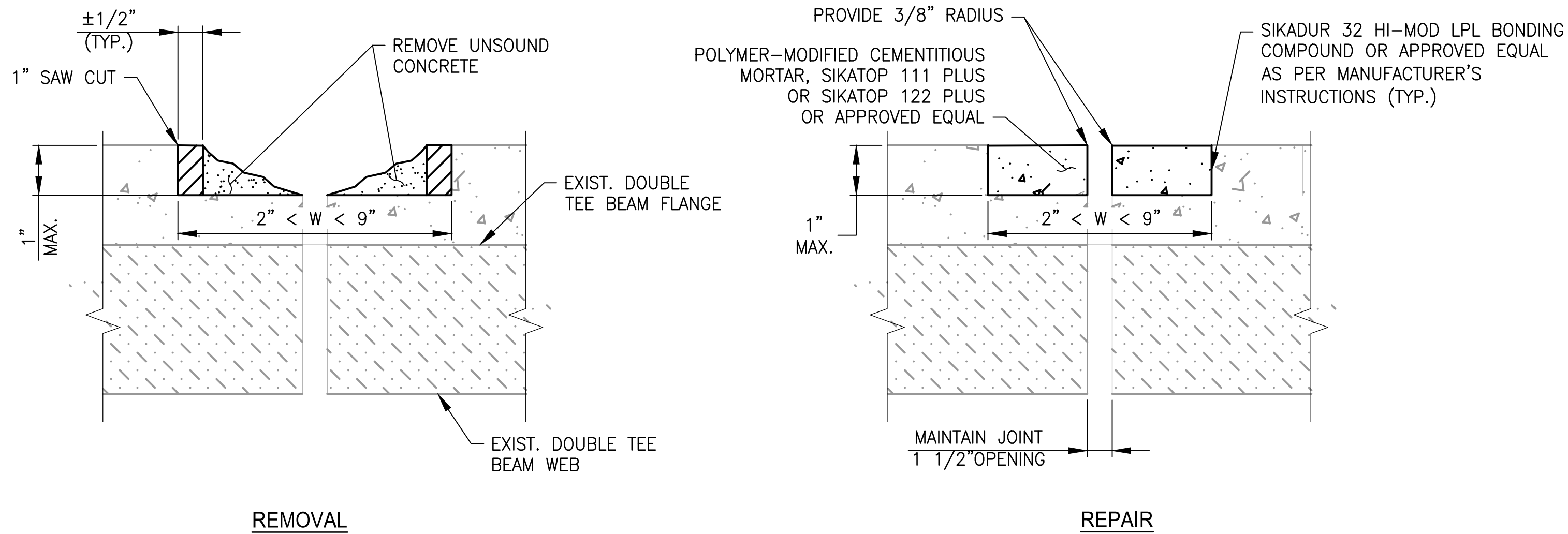
NOT TO SCALE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 34339
EXPIRATION DATE: 06/17/2019

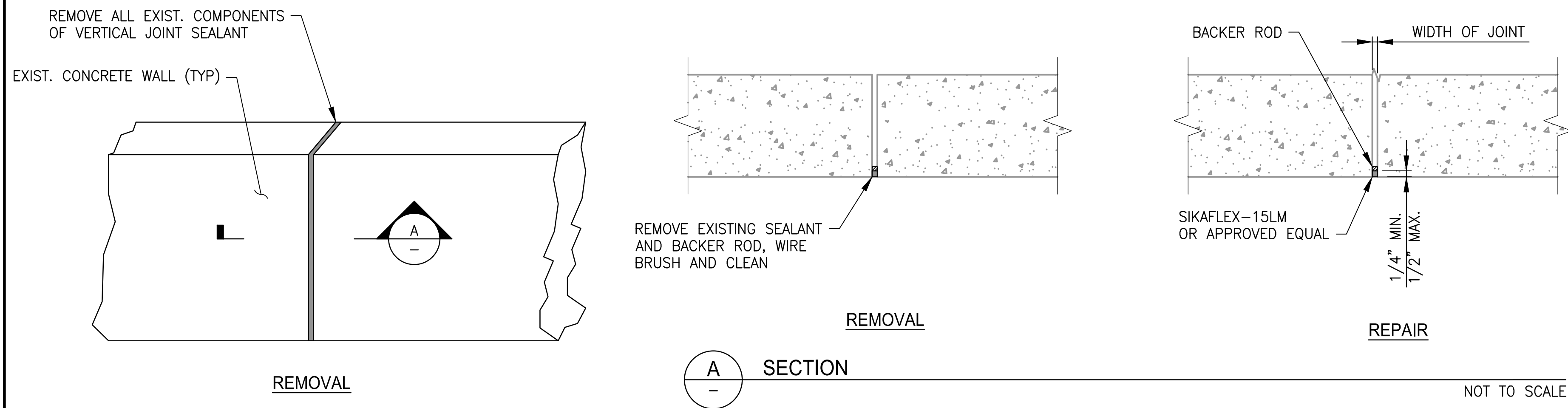


DESIGNED M. PARK DATE 01/2018 DRAWN L. NGUYEN DATE 01/2018 CHECKED L. KATSMAN DATE 01/2018	REFERENCE DRAWINGS		REVISIONS		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY OFFICE OF THE CHIEF OPERATING OFFICER IRPG - FIXED FACILITIES APPROVED JOHN PURDY ENGINEERING MANAGER DATE 01/25/2018 APPROVED IFTIKHAR AHMAD / DIPANKAR SENGUPTA ENGINEER OF RECORD DATE 01/25/2018	REHABILITATION OF PARKING GARAGES STANDARD STRUCTURAL REPAIR DETAILS				
	NUMBER	TITLE	DATE	NUM	DESCRIPTION	TYPICAL REPAIR DETAILS 2 OF 19				
			01/25/2018	0	FINAL SUBMITTAL					
M NO. M1301		CONTRACT NO. FQ18064		SCALE AS NOTED		DRAWING NO. S-502		SHEET NO. 485 of 504		



5 TYPICAL DOUBLE TEE BEAM FLANGE SPALL REPAIR DETAIL (2" < SPALL WIDTH < 9")
S-503 NOT TO SCALE

DETERIORATED SEALANT AND SPALL AT DOUBLE TEE BEAM JOINT

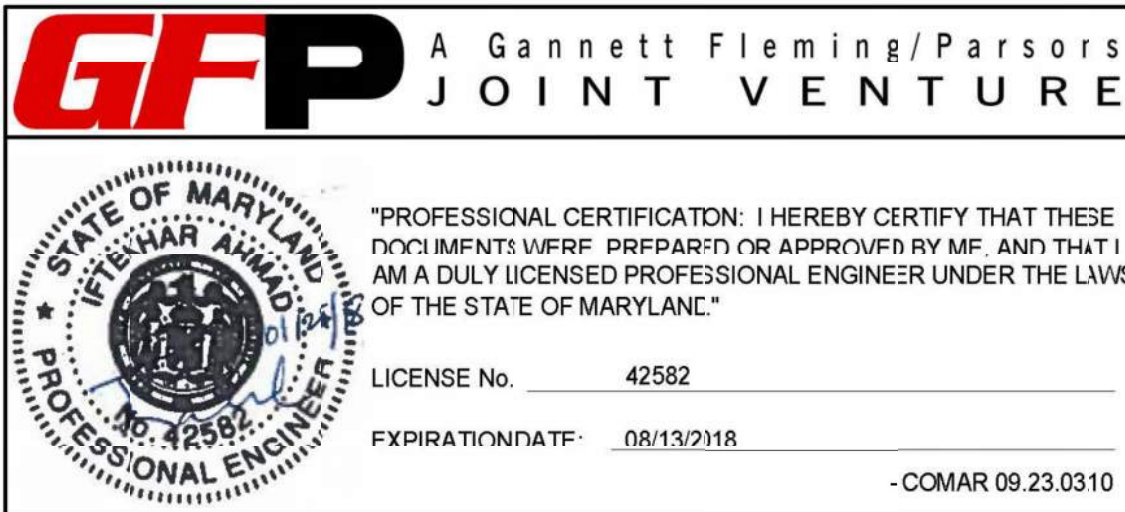
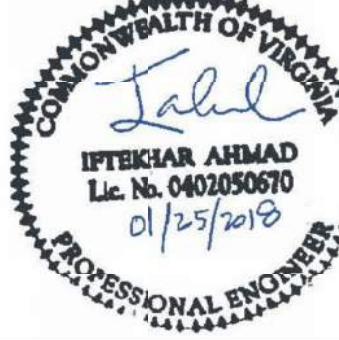


6 TYPICAL VERTICAL JOINT SEALANT REPAIR DETAIL
S-503 NOT TO SCALE

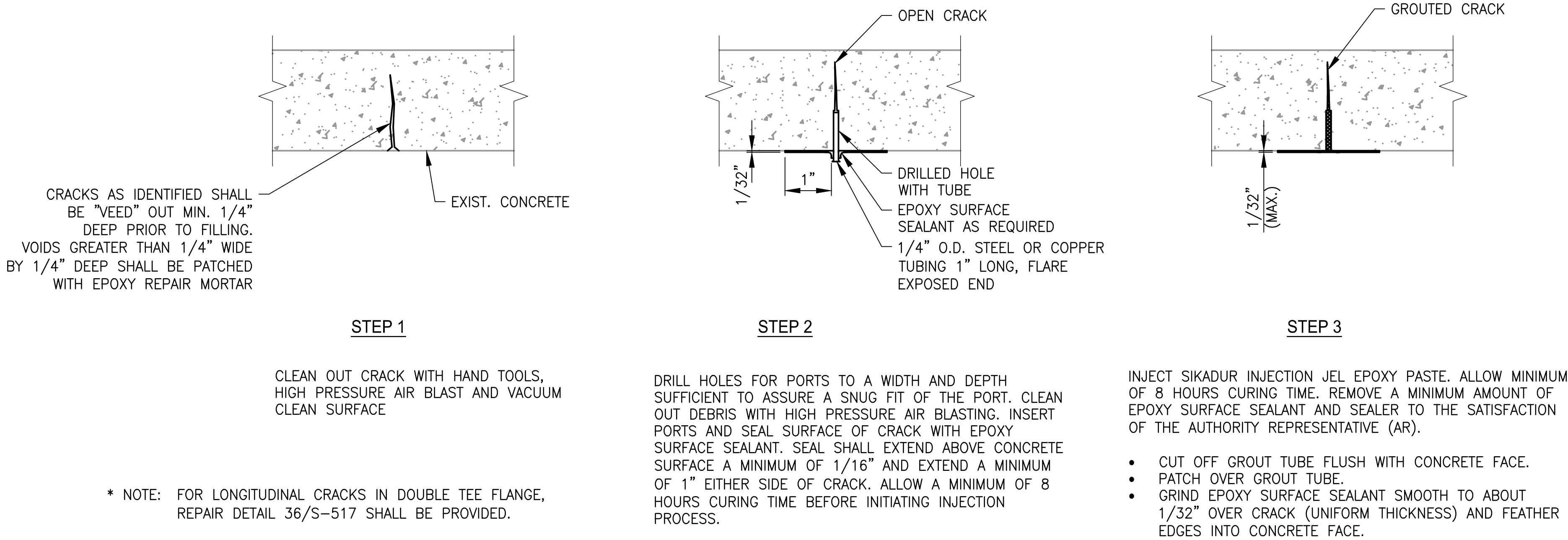
DETERIORATED VERTICAL JOINT SEALANT

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 34339
EXPIRATION DATE: 06/17/2019



DESIGNED M. PARK 01/2018 DATE			REFERENCE DRAWINGS			REVISIONS			WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY			REHABILITATION OF PARKING GARAGES		
DRAWN L. NGUYEN 01/2018 DATE			NUMBER	TITLE	DATE	NUM	DESCRIPTION		OFFICE OF THE CHIEF OPERATING OFFICER			STANDARD STRUCTURAL REPAIR DETAILS		
CHECKED L. KATSMAN 01/2018 DATE					01/25/2018	0	FINAL SUBMITTAL		IRPG - FIXED FACILITIES			TYPICAL REPAIR DETAILS 3 OF 19		
									APPROVED 01/25/2018 JOHN PURDY ENGINEERING MANAGER			APPROVED 01/25/2018 IFTIKHAR AHMAD / DIPANKAR SENGUPTA ENGINEER OF RECORD		
									M NO. M1301			CONTRACT NO. FQ18064		
									SCALE AS NOTED			DRAWING NO. S-503		
									SHEET NO. 486 of 504					



* NOTE: FOR LONGITUDINAL CRACKS IN DOUBLE TEE FLANGE, REPAIR DETAIL 36/S-517 SHALL BE PROVIDED.

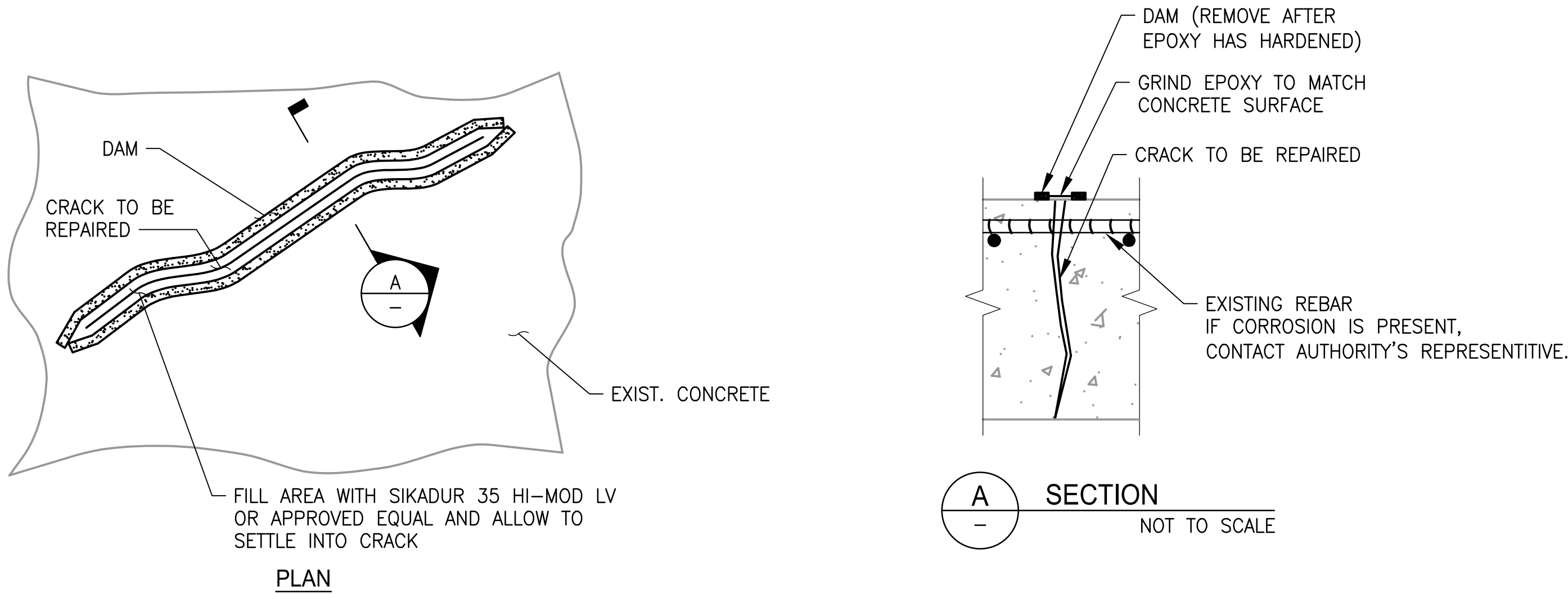


TYPICAL UNDERSIDE CRACK

7
S-504

TYPICAL UNDERSIDE CRACK REPAIR DETAIL

NOT TO SCALE



CONCRETE CRACK REPAIR NOTES:

- CRACKS LESS THAN 1/16" WIDE DO NOT REQUIRE REPAIR.
- CLEAN CRACKS WIDER THAN 1/16" USING OIL-FREE COMPRESSED AIR OR WATER UNDER PRESSURE TO REMOVE ALL DIRT AND LOOSE MATERIAL WITHIN THE CRACKS.
- CRACKS SHOWN ARE SCHEMATIC, THE ACTUAL LOCATIONS AND LIMITS OF DETERIORATION SHALL BE VERIFIED AND APPROVED BY THE ENGINEER.
- CRACKS WHICH ARE ASSOCIATED WITH DELAMINATIONS SHALL BE REMOVED WITH THE DELAMINATED CONCRETE.



TYPICAL TOP SIDE CRACK

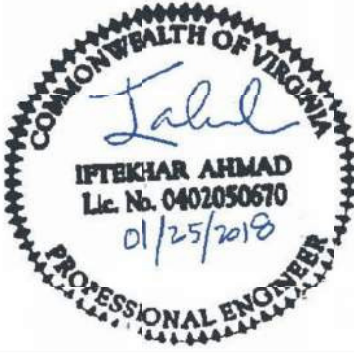
8
S-504

TYPICAL TOP SIDE CRACK REPAIR DETAIL

NOT TO SCALE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 34339
EXPIRATION DATE: 06/17/2019





GFP A Gannett Fleming/Parsors JOINT VENTURE

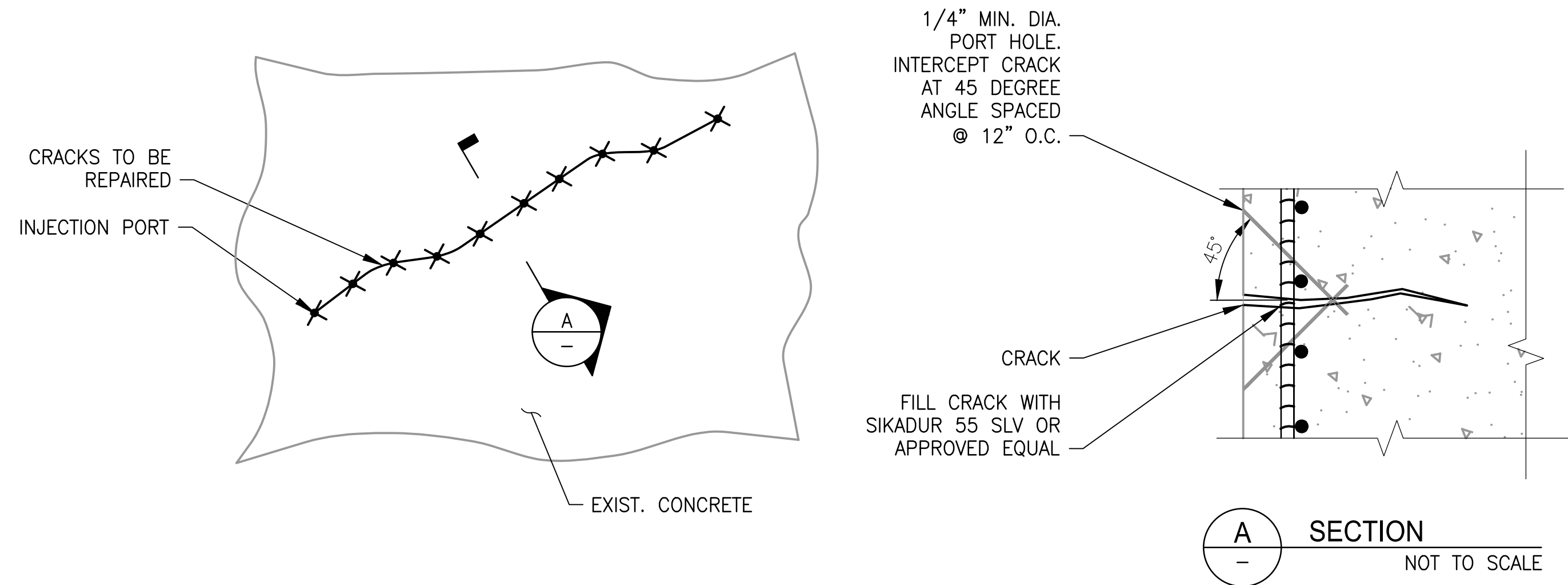
"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 42582
EXPIRATION DATE: 08/13/2018

STATE OF MARYLAND
IFTIKHAR AHMAD
Lic. No. 0402050670
01/25/2018
PROFESSIONAL ENGINEER

-COMAR 09.23.0310

<div>DESIGNED <u>M. PARK</u> 01/2018 DATE</div> <div>DRAWN <u>L. NGUYEN</u> 01/2018 DATE</div> <div>CHECKED <u>L. KATSMAN</u> 01/2018 DATE</div>			REFERENCE DRAWINGS		REVISIONS			<div><div><div>M</div><div>metro</div></div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>OFFICE OF THE CHIEF OPERATING OFFICER</div><div>IRPG - FIXED FACILITIES</div><div><div>APPROVED  01/25/2018 DATE</div><div>JOHN PURDY ENGINEERING MANAGER</div></div><div><div>APPROVED  01/25/2018 DATE</div><div>IFTEKHAR AHMAD / DIPANKAR SENGUPTA ENGINEER OF RECORD</div></div></div>			REHABILITATION OF PARKING GARAGES STANDARD STRUCTURAL REPAIR DETAILS				
			NUMBER	TITLE	DATE	NUM	DESCRIPTION				TYPICAL REPAIR DETAILS 4 OF 19				
					01/25/2018	0	FINAL SUBMITTAL								
								M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.			
								M1301	FQ18064	AS NOTED	S-504	487 of 504			



9
S-505

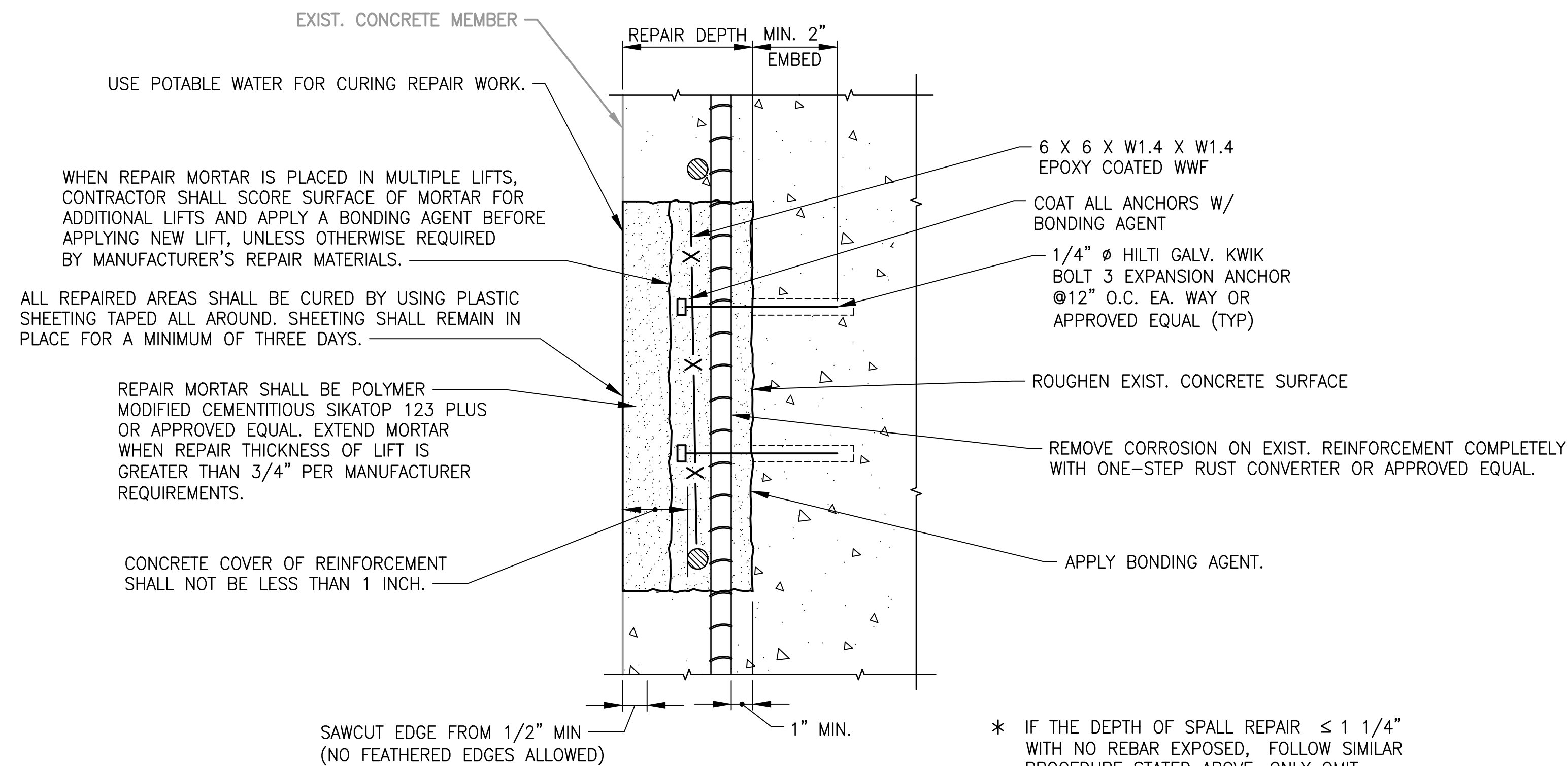
TYPICAL VERTICAL CRACK REPAIR DETAIL

NOT TO SCALE

NOTE: SEE 7/S-504 FOR REPAIR PROCEDURE.



TYPICAL VERTICAL CRACK



10
S-505

TYPICAL VERTICAL SPALL REPAIR DETAIL

NOT TO SCALE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

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GFP A Gannett Fleming/Parsors JOINT VENTURE

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF THE CHIEF OPERATING OFFICER
IRPG - FIXED FACILITIES

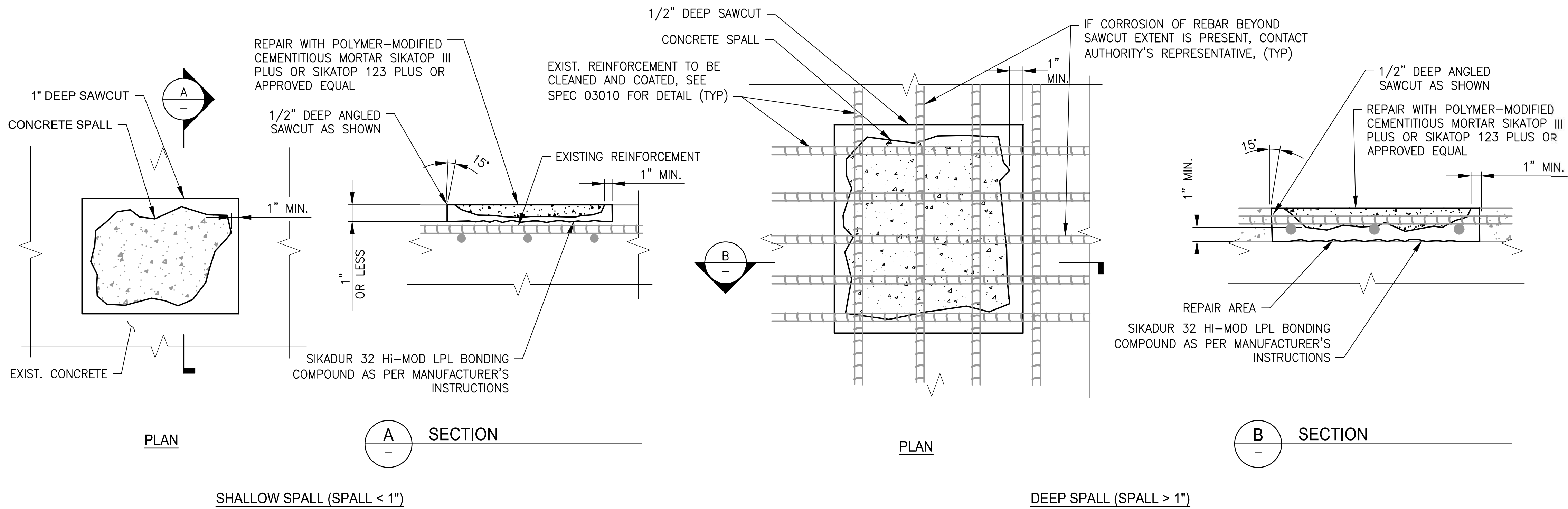
APPROVED
JOHN PURDY
ENGINEERING MANAGER
01/25/2018
DATE

APPROVED
IFTIKHAR AHMAD / DIPANKAR SENGUPTA
ENGINEER OF RECORD
01/25/2018
DATE

REHABILITATION OF PARKING GARAGES
STANDARD STRUCTURAL REPAIR DETAILS

TYPICAL REPAIR DETAILS 5 OF 19

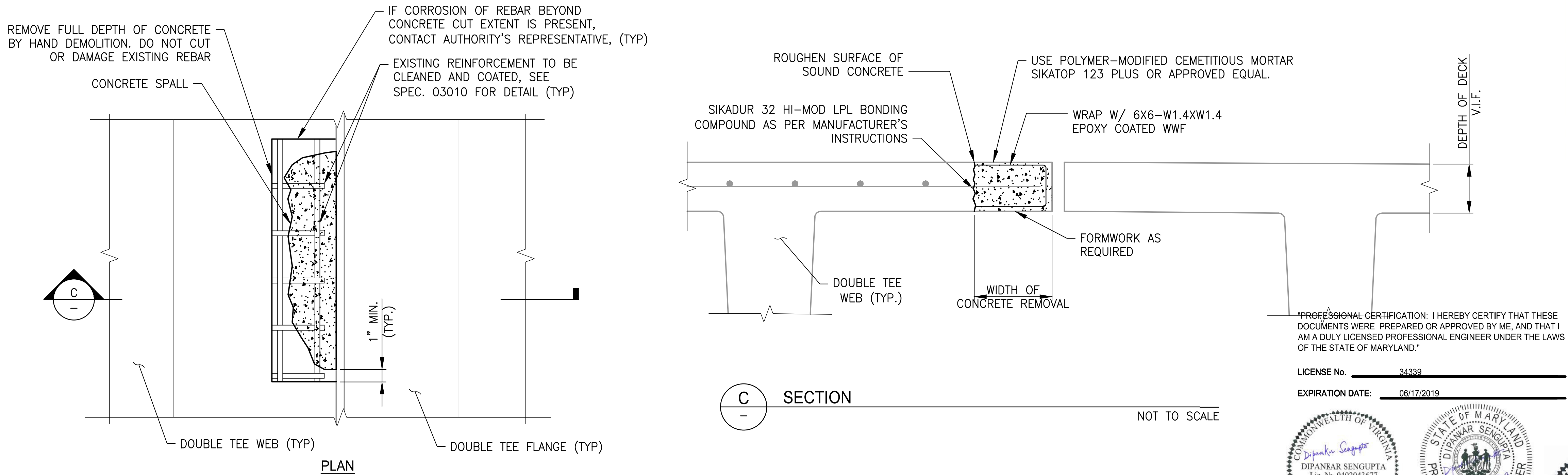
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1301	FQ18064	AS NOTED	S-505	488 of 504



TYPICAL TOP SIDE SPALL

11 TYPICAL CONCRETE TOP SIDE SPALL REPAIR DETAIL

SCALE: NONE

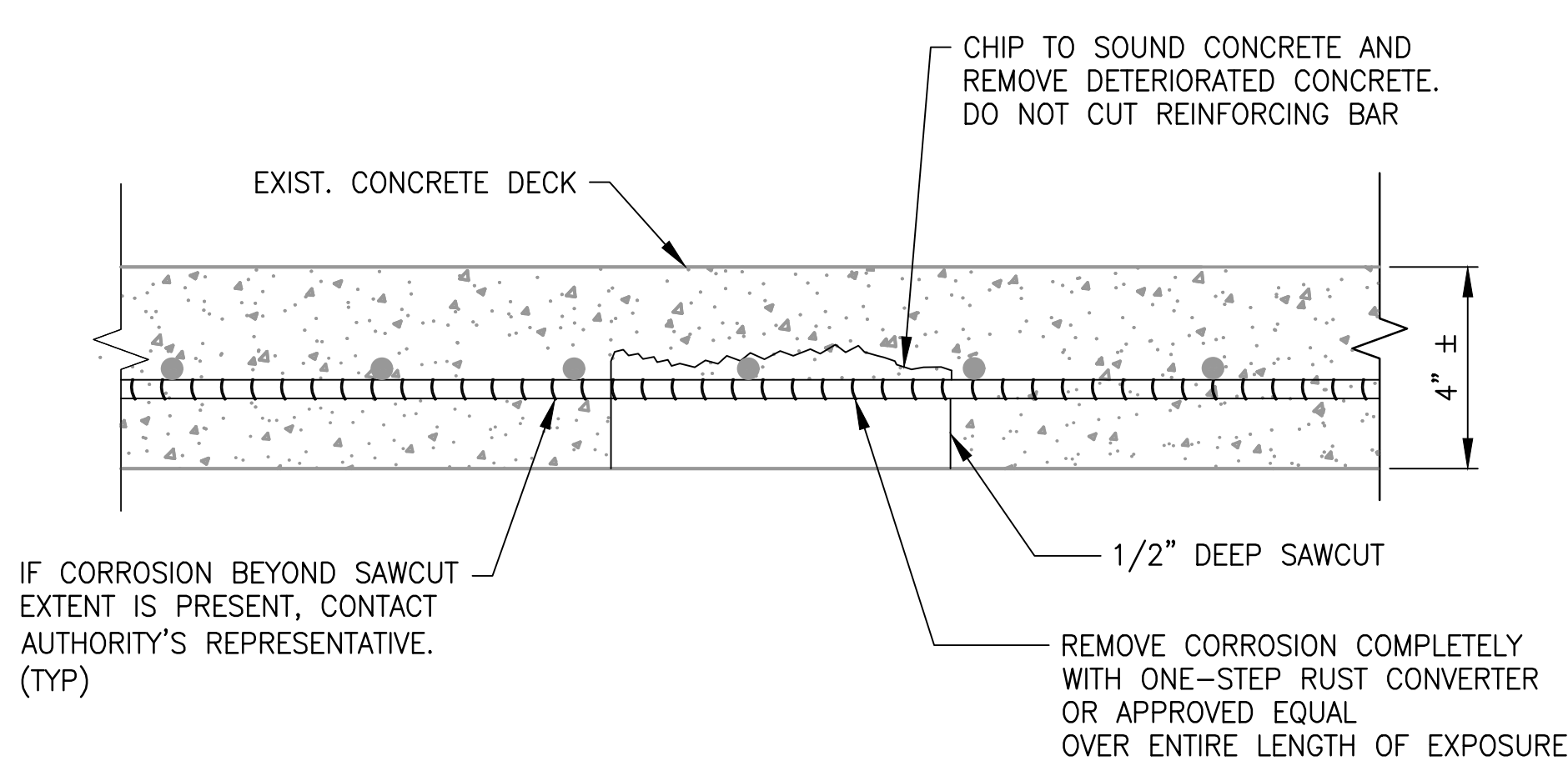


TYPICAL UNDERSIDE DEEP SPALL

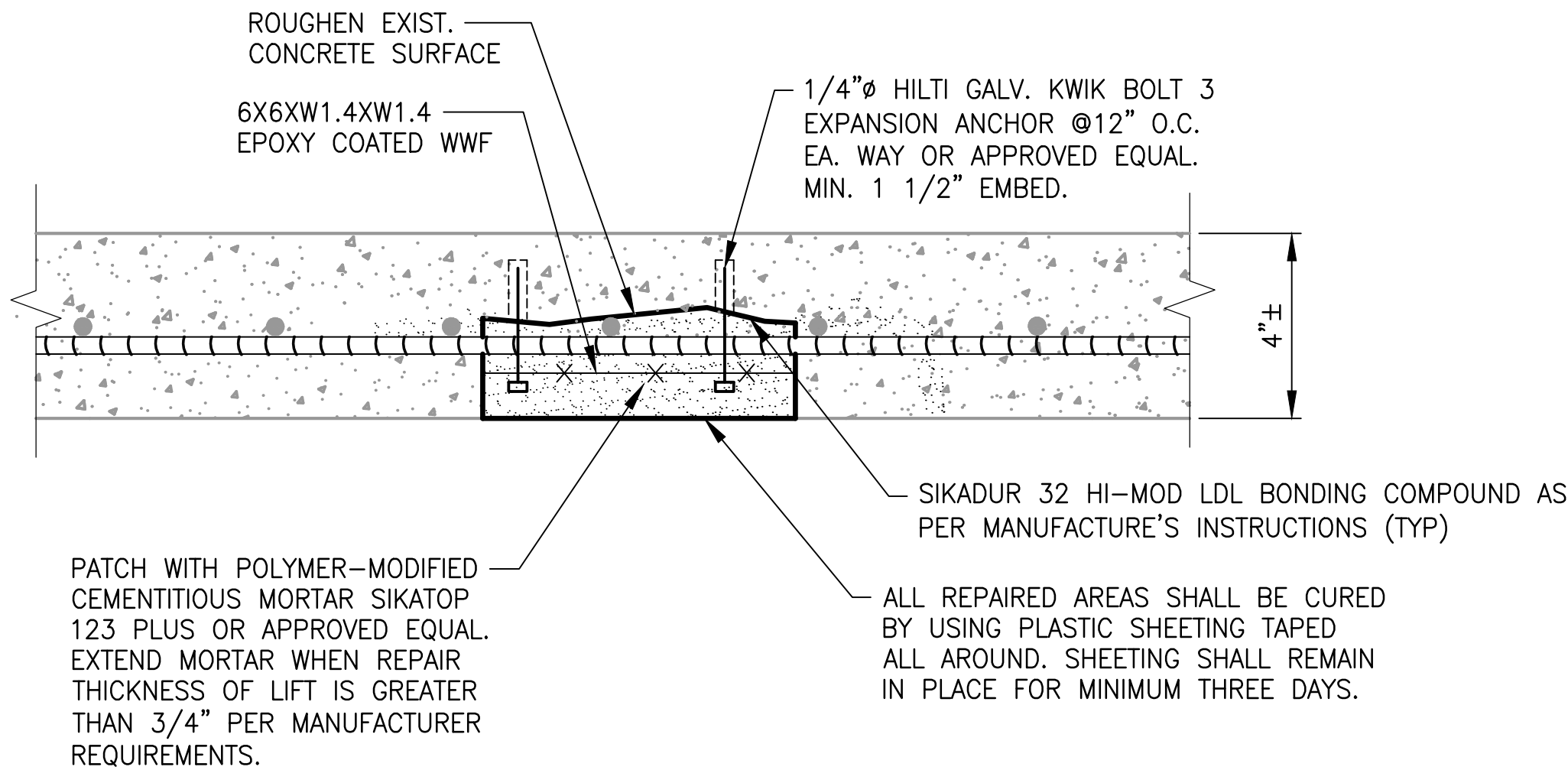
12 TYPICAL FULL DEPTH SPALL REPAIR AT UNDERSIDE OF CONCRETE DECK DETAIL

NOT TO SCALE

DESIGNED M. PARK 01/2018 DATE			REFERENCE DRAWINGS			REVISIONS			WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY			REHABILITATION OF PARKING GARAGES		
DRAWN L. NGUYEN 01/2018 DATE			NUMBER	TITLE	DATE	NUM	DESCRIPTION		OFFICE OF THE CHIEF OPERATING OFFICER			STANDARD STRUCTURAL REPAIR DETAILS		
CHECKED L. KATSMAN 01/2018 DATE					01/25/2018	0	FINAL SUBMITTAL		IRPG - FIXED FACILITIES			TYPICAL REPAIR DETAILS 6 OF 19		
									APPROVED 01/25/2018 DATE			M NO. CONTRACT NO. SCALE DRAWING NO. SHEET NO.		
									JOHN PURDY ENGINEERING MANAGER			M1301 FQ18064 AS NOTED S-506 489 of 504		
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									IFTEKHAR AHMAD / DIPANKAR SENGUPTA ENGINEER OF RECORD					



REMOVAL



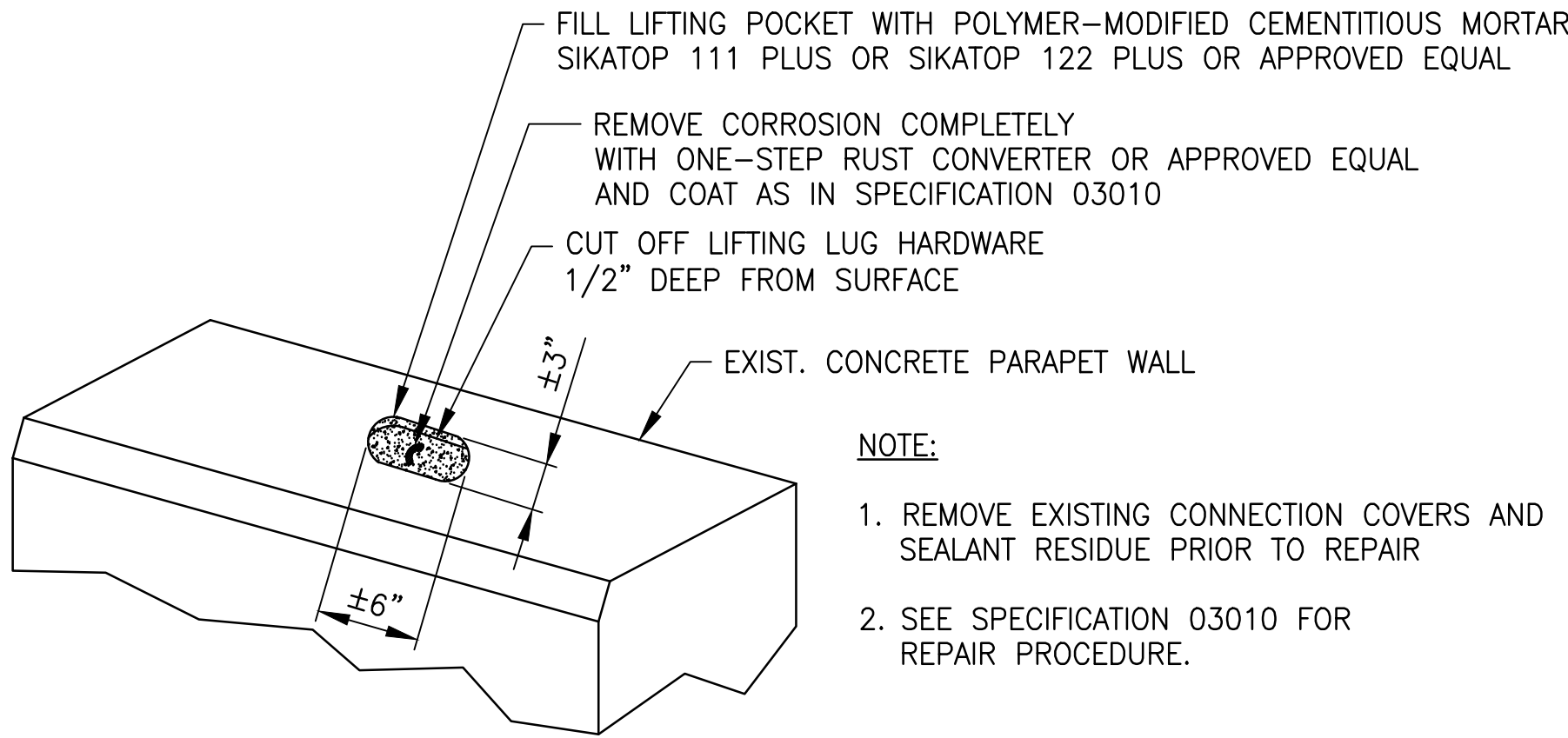
REPAIR



TYPICAL UNDERSIDE SHALLOW SPALL

13 TYPICAL DEEP SPALL REPAIR AT UNDERSIDE OF CONCRETE DECK DETAIL

NOT TO SCALE



- NOTE:
1. REMOVE EXISTING CONNECTION COVERS AND SEALANT RESIDUE PRIOR TO REPAIR
 2. SEE SPECIFICATION 03010 FOR REPAIR PROCEDURE.



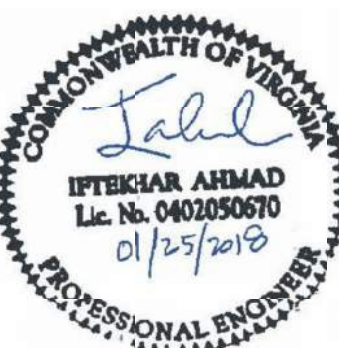
CRACK AT HORIZONTAL LFTING POINT

14 TYPICAL REPAIR AT HORIZONTAL LIFTING POINT DETAIL

NOT TO SCALE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 34339
EXPIRATION DATE: 06/17/2019

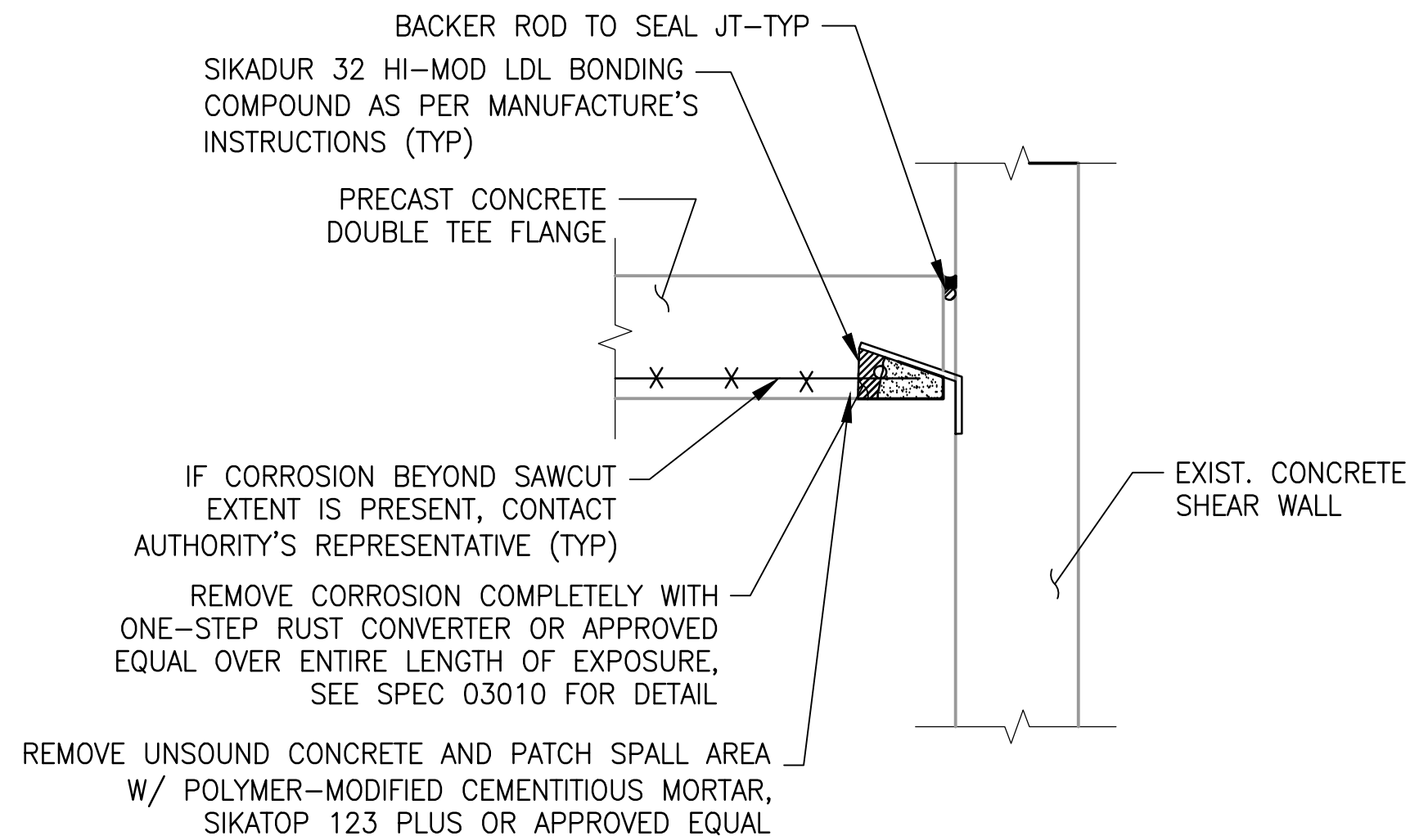
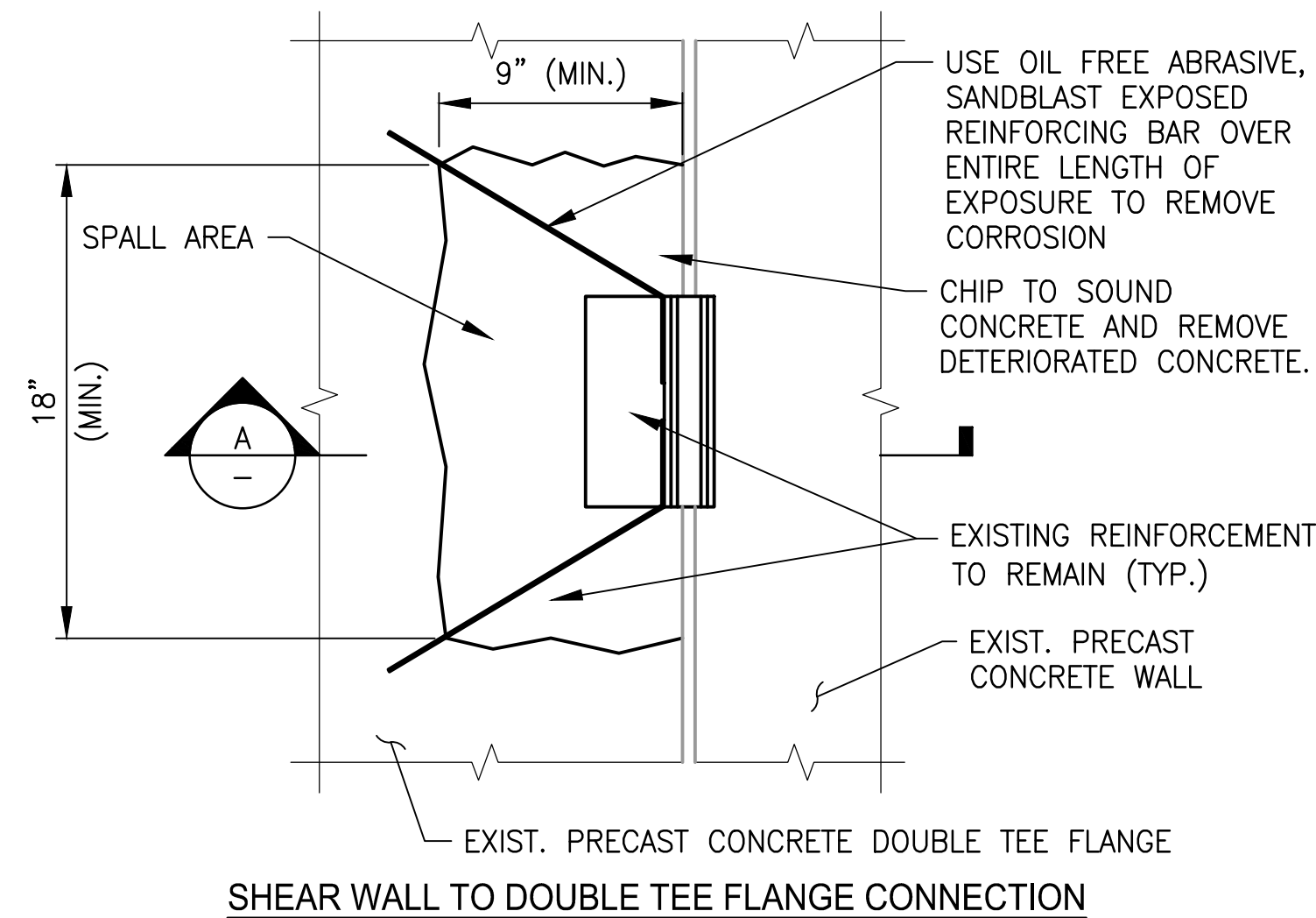


GFP A Gannett Fleming/Parsors JOINT VENTURE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

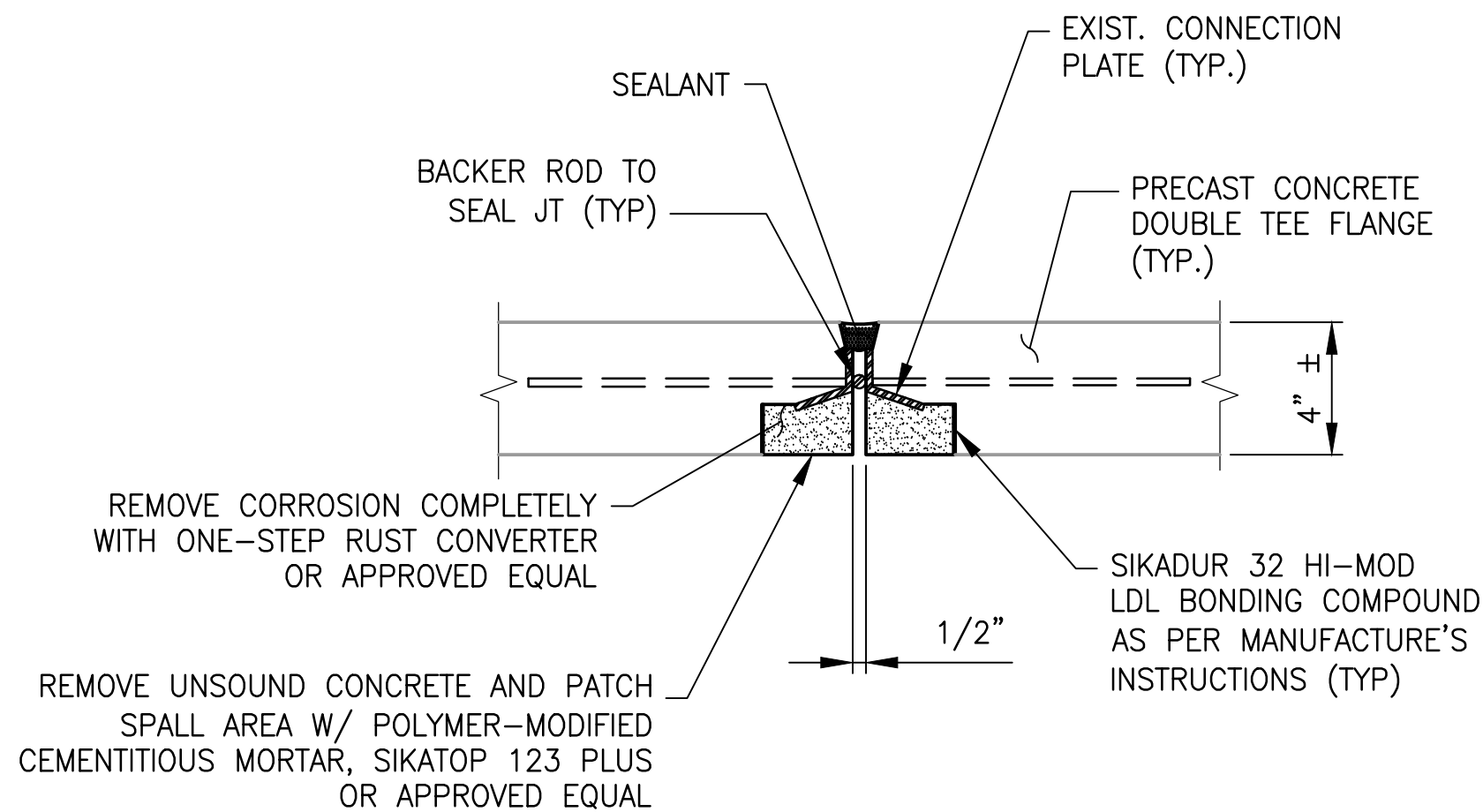
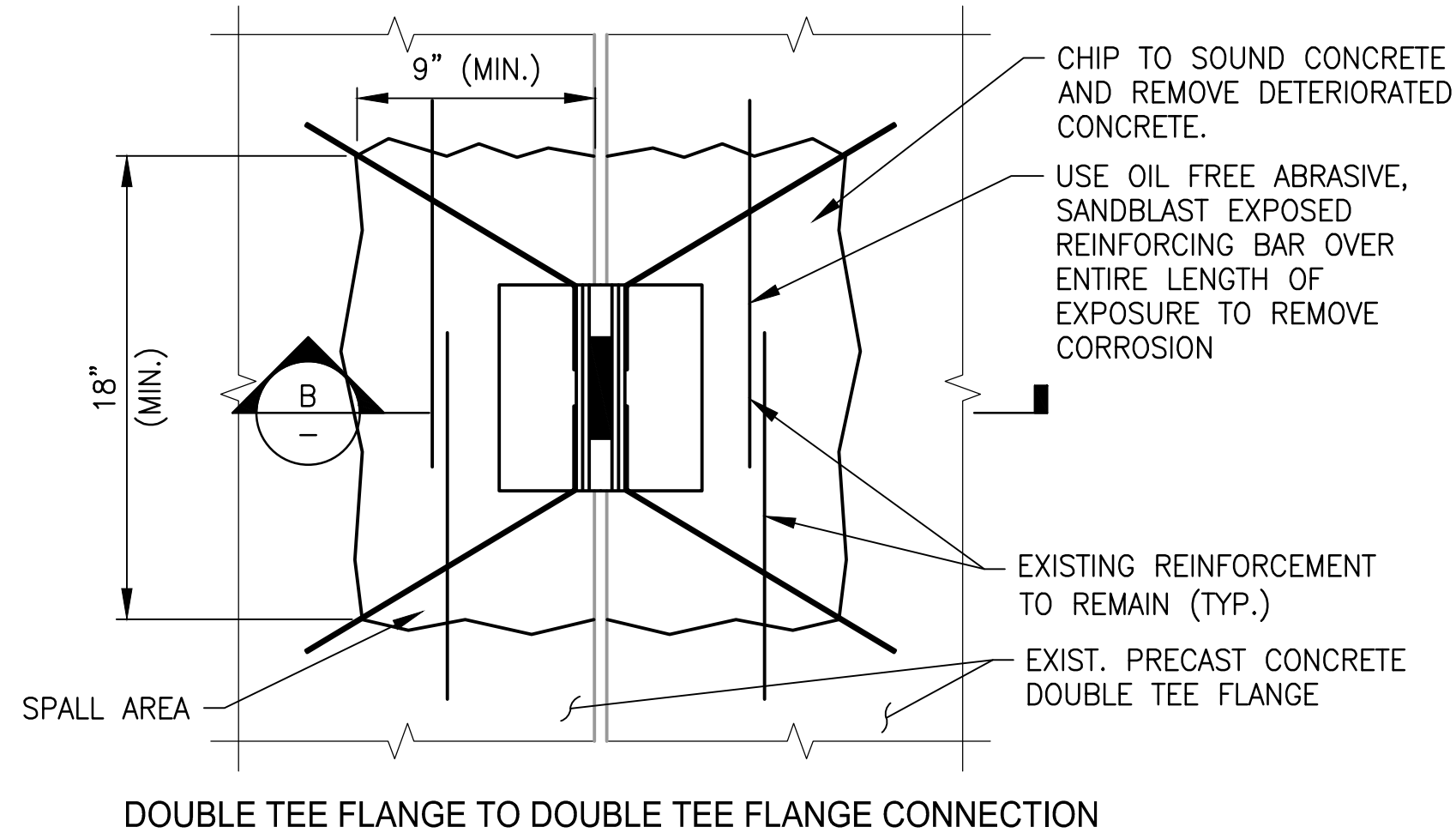
LICENSE No. 42582
EXPIRATION DATE: 08/13/2018
-COMAR 09.23.0310

DESIGNED			REFERENCE DRAWINGS				REVISIONS				WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY				REHABILITATION OF PARKING GARAGES			
DATE			NUMBER	TITLE	DATE	NUM	DESCRIPTION	DATE	NUM	DESCRIPTION	OFFICE OF THE CHIEF OPERATING OFFICER				STANDARD STRUCTURAL REPAIR DETAILS			
01/2018					01/25/2018	0	FINAL SUBMITTAL				IRPG - FIXED FACILITIES				TYPICAL REPAIR DETAILS 7 OF 19			
01/2018											APPROVED				M NO.			
01/2018											JOHN PURDY				CONTRACT NO.			
01/2018											ENGINEERING MANAGER				FQ18064			
01/2018											DATE				SCALE			
01/2018											DATE				AS NOTED			
01/2018											DATE				DRAWING NO.			
01/2018											DATE				S-507			
01/2018											DATE				SHEET NO.			
01/2018											DATE				490 of 504			



A SECTION
SCALE: NONE

NOTE: ANY EXPOSED STEEL TO BE CLEANED AND COATED WITH COLD SPRAY GALVANIZING.



B SECTION
NOT TO SCALE

NOTE: ANY EXPOSED STEEL TO BE CLEANED AND COATED WITH COLD SPRAY GALVANIZING.

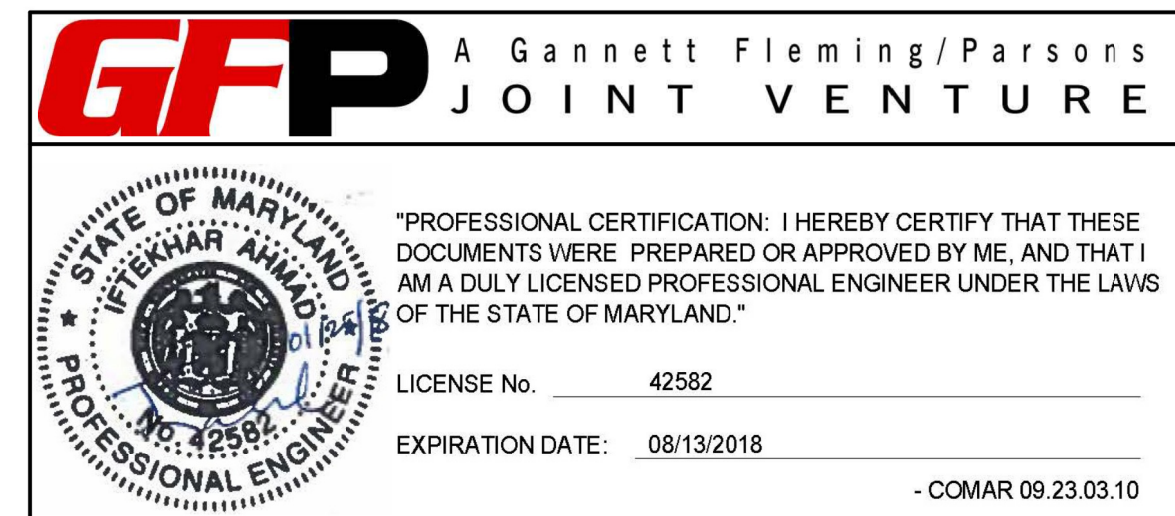
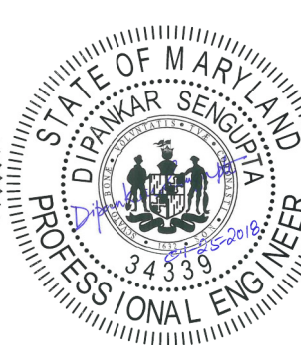
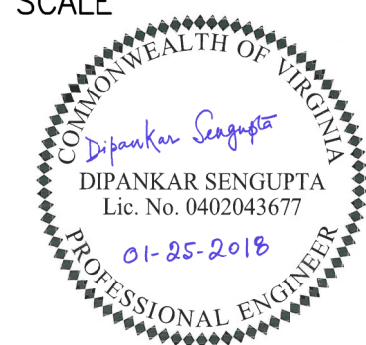


TYPICAL DEFECT AT CONNECTION PLATE

17
S-509
TYPICAL CONNECTION PLATE REPAIR DETAIL

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 34339
EXPIRATION DATE: 06/17/2019



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
OFFICE OF THE CHIEF OPERATING OFFICER
IRPG - FIXED FACILITIES

APPROVED: JOHN PURDY, ENGINEERING MANAGER, DATE: 01/25/2018
APPROVED: IFTEKHAR AHMAD / DIPANKAR SENGUPTA, ENGINEER OF RECORD, DATE: 01/25/2018

REHABILITATION OF PARKING GARAGES
STANDARD STRUCTURAL REPAIR DETAILS

TYPICAL REPAIR DETAILS 9 OF 19

DESIGNED: M. PARK, DATE: 01/2018	REFERENCE DRAWINGS	REVISIONS	M NO. M1301	CONTRACT NO. FQ18064	SCALE: AS NOTED	DRAWING NO. S-509	SHEET NO. 492 of 504
DRAWN: L. NGUYEN, DATE: 01/2018	NUMBER: , TITLE:	DATE: 01/25/2018, NUM: 0, DESCRIPTION: FINAL SUBMITTAL					
CHECKED: L. KATSMAN, DATE: 01/2018							



1. CONSTRUCTION LOADS:
ROOF 50 PSF
FLOOR 50 PSF
2. SHORING REQUIRED FOR CONCRETE REPAIR AT CORBELS AND REPLACEMENT OF BEARING PADS.
3. SEE PROJECT SPECIFICATIONS FOR SHORING REMOVAL CRITERIA.
4. SHORING SHALL BE EXTENDED FROM LEVEL WHERE WORK IS TO BE PERFORMED, DOWN TO FOUNDATION LEVEL OR A MINIMUM OF THREE LEVEL BELOW.
5. CONTRACTOR SHALL SUBMIT A SHORING PLAN AND PROCEDURE FOR JACKING PRECAST DOUBLE TEES FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. JACKING PROCEDURE SHALL INCLUDE THE EFFECTS OF JACKING ON ADJOINING PRECAST DOUBLE TEE BEAMS AND ON TOPPING.
6. CONTRACTOR SHALL DESIGN JACKING FRAME WITH A MINIMUM CAPACITY AS SHOWN ON DETAIL.
7. JACKING OF PRECAST DOUBLE TEE BEAMS AND REPLACEMENT OF BEARING PADS SHALL BE PERFORMED PRIOR TO PERFORMING DECK SURFACE REPAIRS.
8. THE CONTRACTOR SHALL FIELD VERIFY THE ALLOWABLE SOIL BEARING VALUE OR USE VALUES STATED IN AS-BUILT DRAWINGS.
9. CONTRACTOR SHALL EXERCISE CAUTION DURING SHORING TO PREVENT INSTABILITY DUE TO CROSS SLOPE OF PRECAST DOUBLE TEE BEAMS.

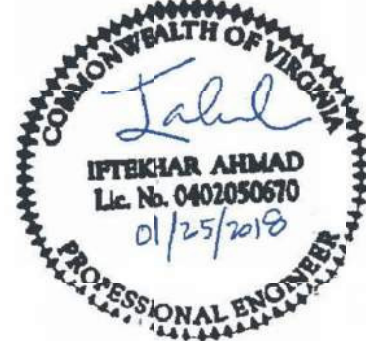


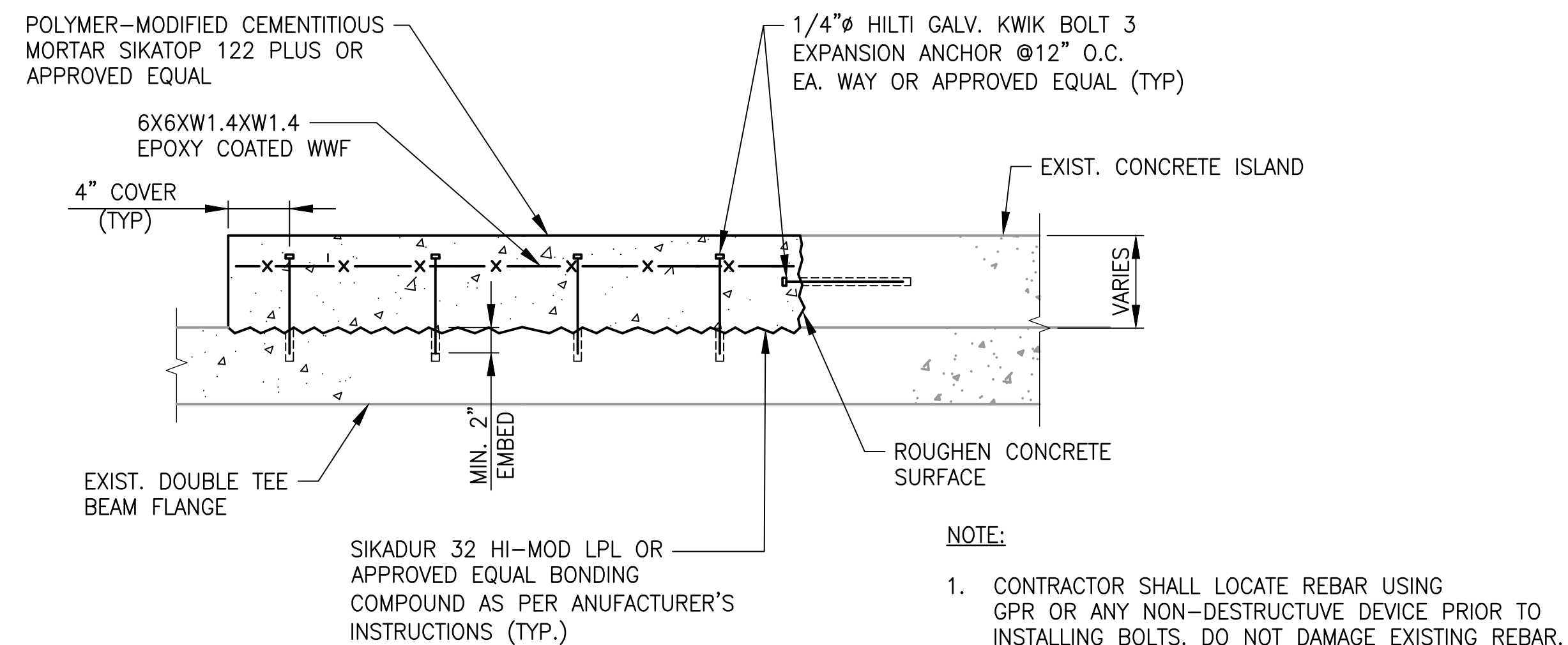
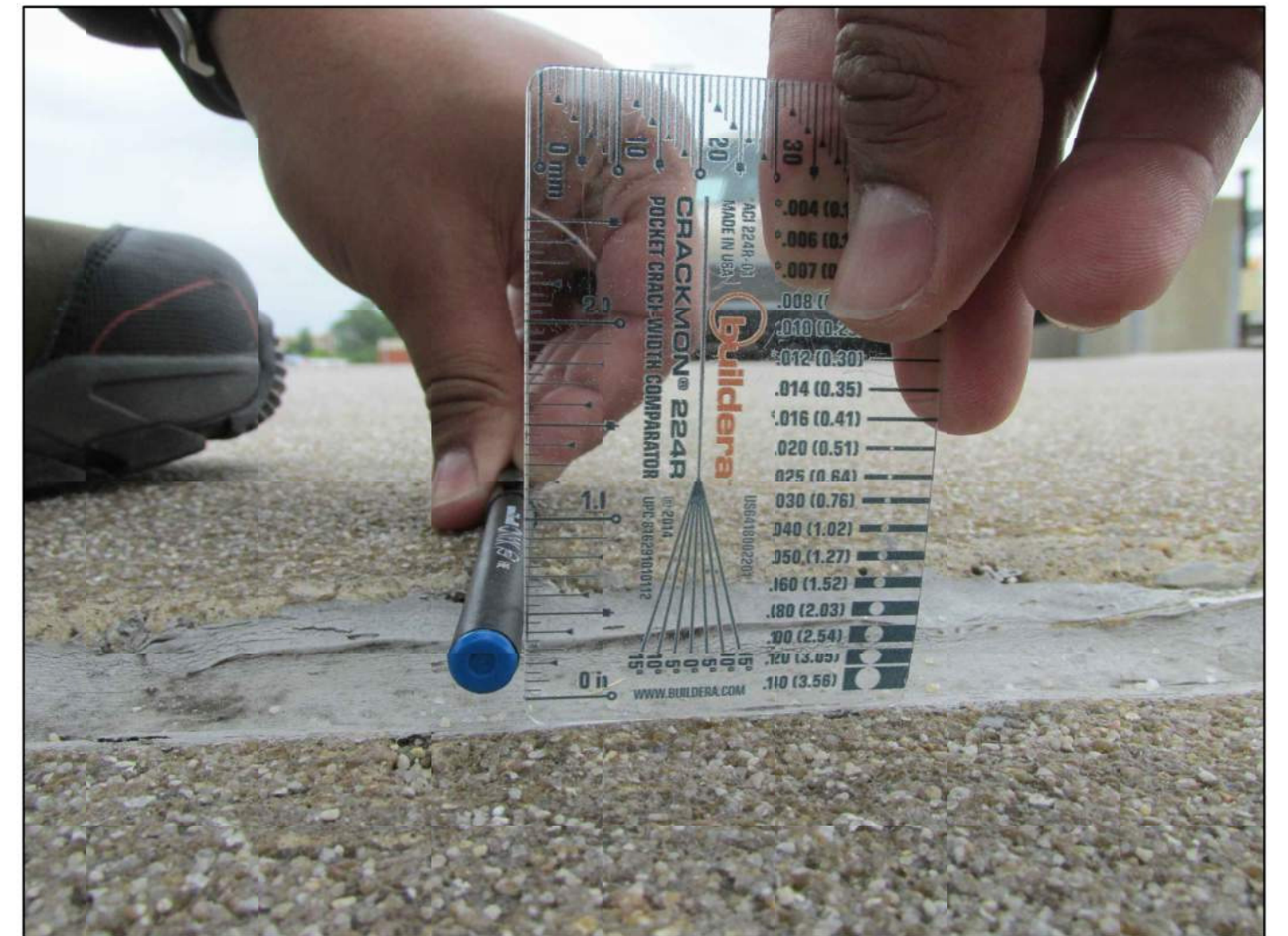
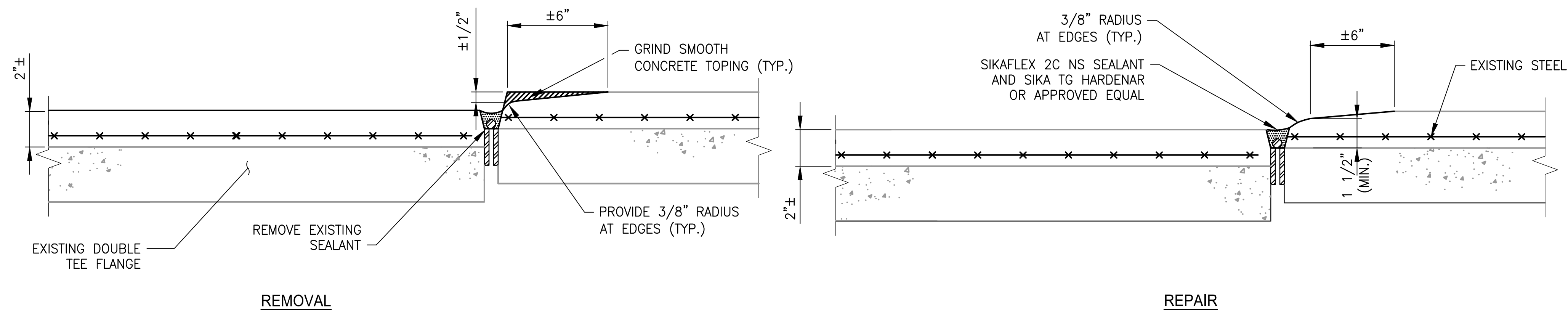
MISALIGNED DOUBLE TEE BEAM BERING PAD

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 34339

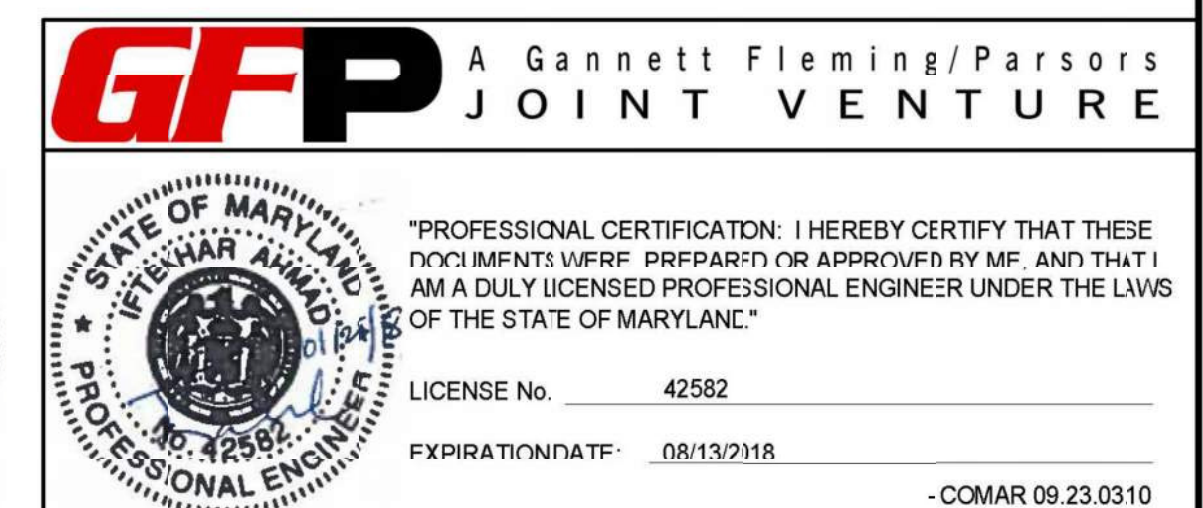
EXPIRATION DATE: 06/17/2019

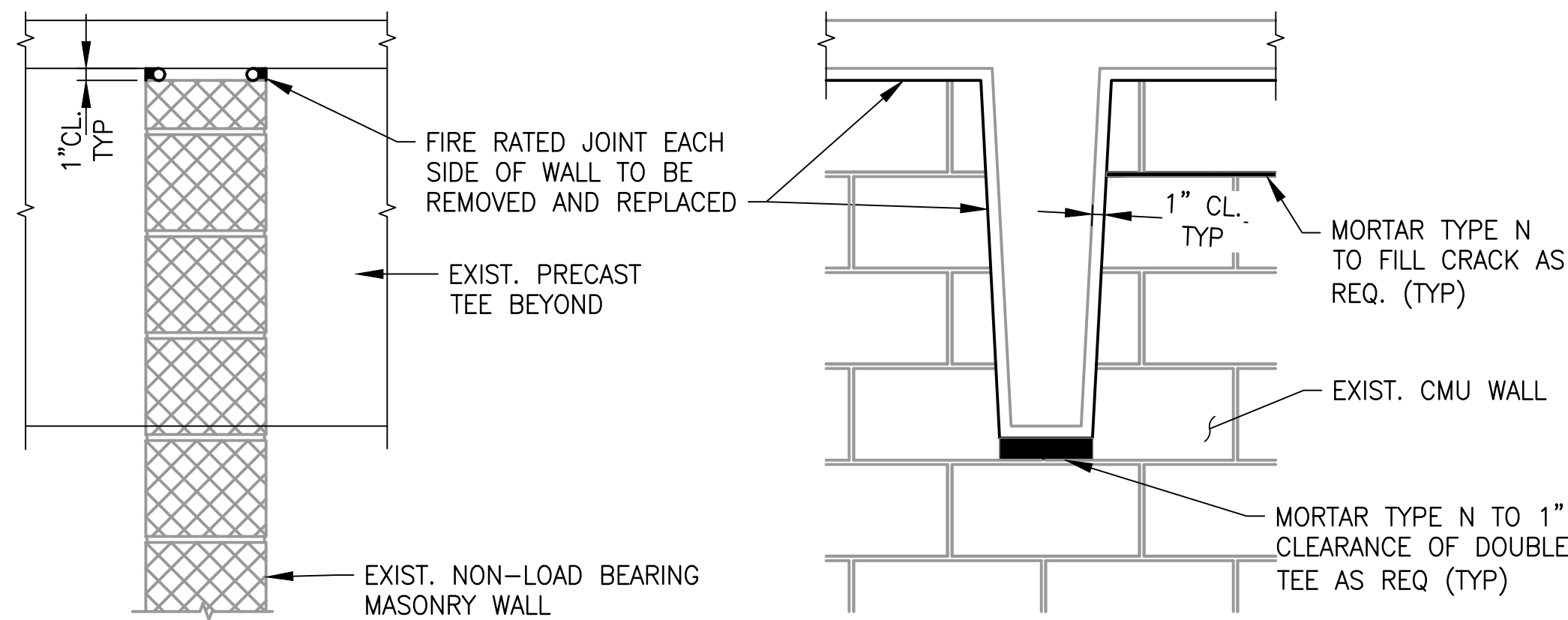
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LICENSE No. 34339
EXPIRATION DATE: 06/17/2019

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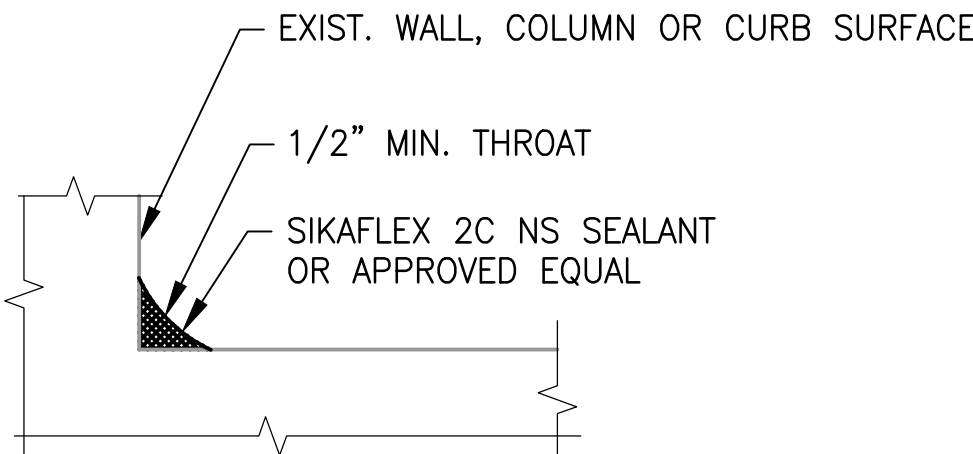
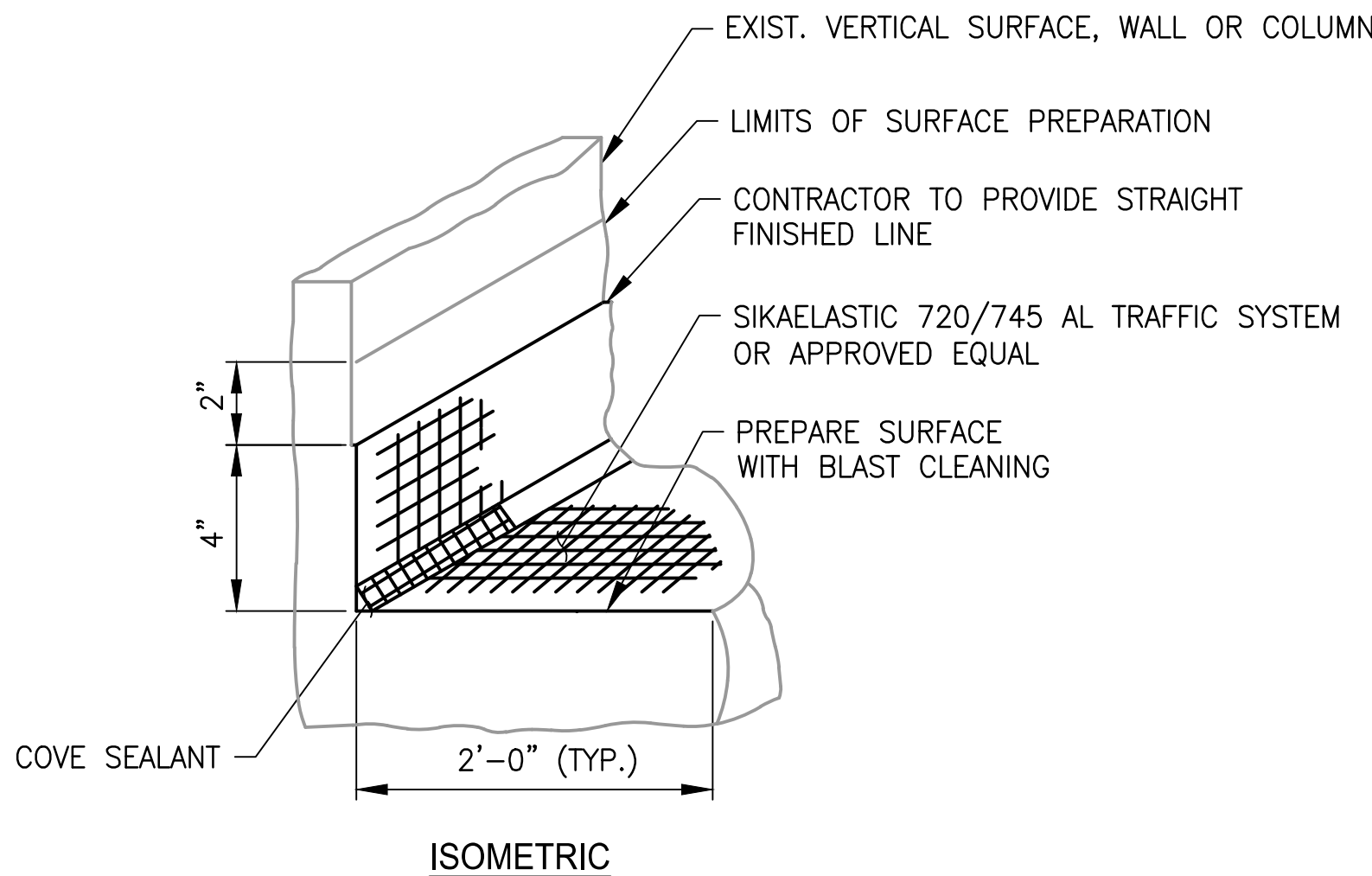


NOTES:

- JOINT SYSTEM – MAX SEPARATION BETWEEN BOTTOM OF FLOOR AND TOP OF WALL (AT TIME OF INSTALLATION OF JOINT SYSTEM) IS 1 IN. (25 MM). THE JOINT SYSTEM IS DESIGNED TO ACCOMMODATE A MAX 25 PERCENT COMPRESSION FROM ITS INSTALLED WIDTH. THE JOINT SYSTEM CONSISTS OF A PACKING OR FORMING MATERIAL AND A FILL MATERIAL BETWEEN THE TOP OF THE WALL AND THE BOTTOM OF THE FLOOR, AS FOLLOWS:
 - PACKING MATERIAL (OPTIONAL, NOT SHOWN): POLYURETHANE FOAM BACKER ROD FIRMLY PACKED INTO JOINT OPENING AS A PERMANENT FORM AND RECESSED FROM EACH SURFACE OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
 - FORMING MATERIAL (OPTIONAL, NOT SHOWN): MIN 3/4" WIDTH OF 4 PCF MINERAL WOOL BATT INSULATION COMPRESSED 50% AND PACKED INTO THE GAP BETWEEN THE TOP OF THE WALL AND DOUBLE TEE ON BOTH SIDES OF THE WALL.
 - FILL, VOID OR CAVITY MATERIAL: A MIN 1/2" THICKNESS OF FILL MATERIAL INSTALLED ON EACH SIDE OF THE WALL BETWEEN THE TOP OF THE WALL AND THE BOTTOM OF THE DOUBLE TEE.



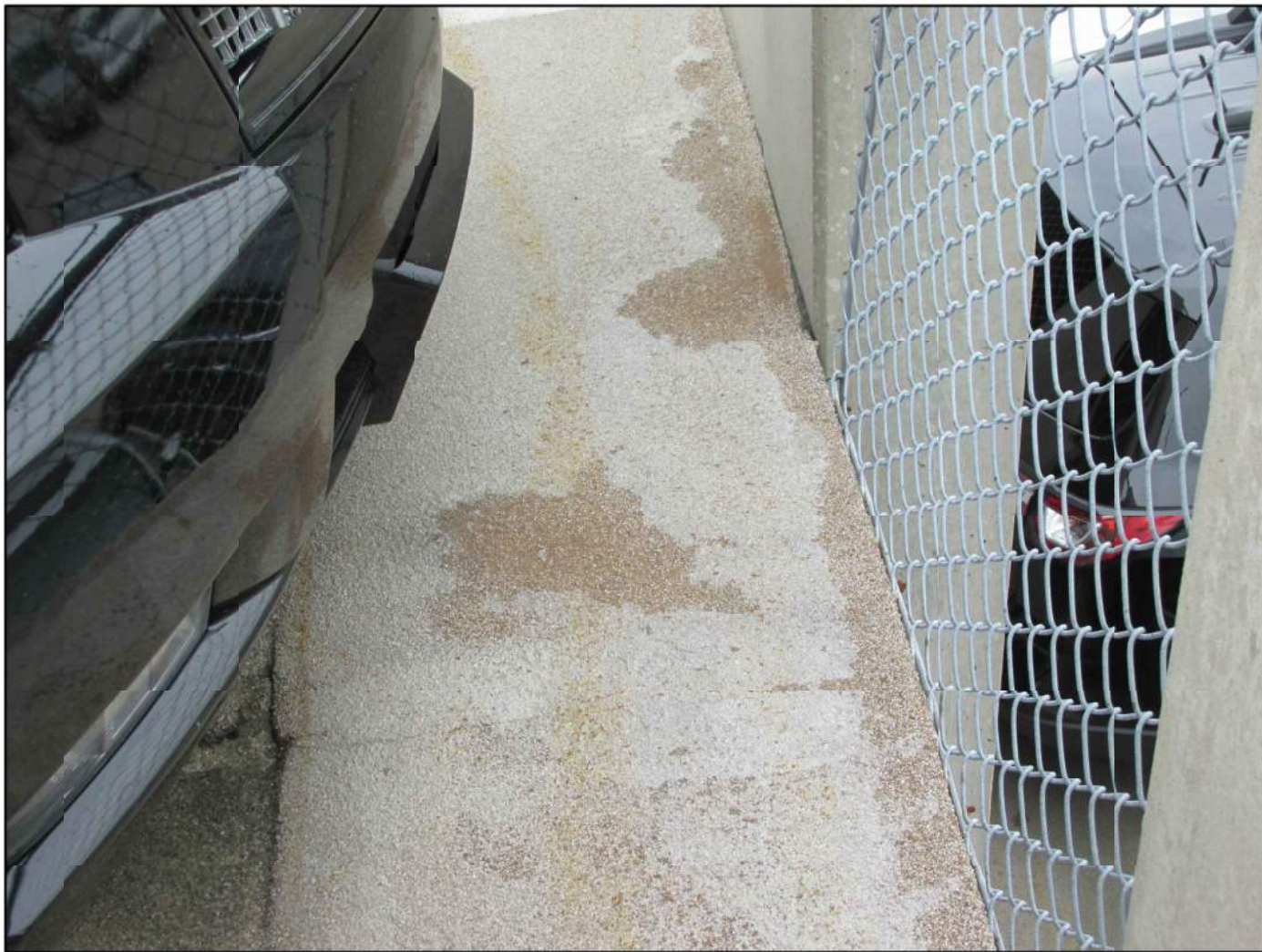
TYPICAL CMU WALL CRACK AT DOUBLE TEE



NOTES:

- PREPARE AND ALLOW FOR PRIMER TO CURE PROPERLY PRIOR TO INSTALLING SEAL.
- INSTALLATION OF COVE SEALANT, AND REMOVAL OF EXISTING SEALANTS ARE INCIDENTAL TO THIS WORK.

COVE SEALANT SECTION



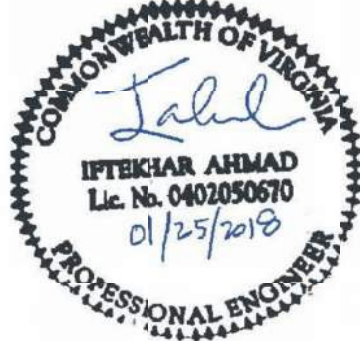
DETERIORATED TRAFFIC TOPPING AT PARAPET WALL

22 TYPICAL TRAFFIC TOPPIING REPAIR DETAIL AT PARAPET WALL

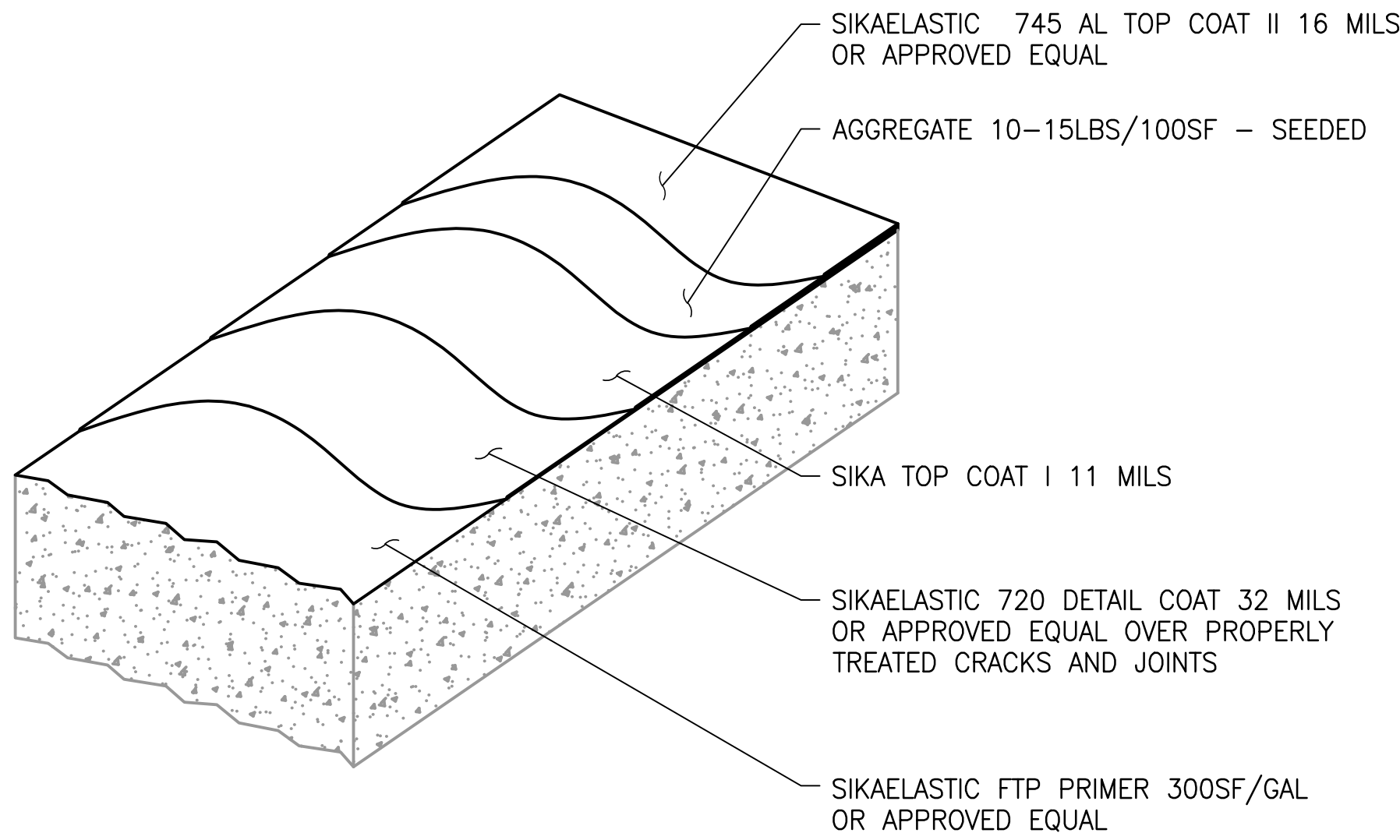
NOT TO SCALE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 34339
EXPIRATION DATE: 06/17/2019



DESIGNED			REFERENCE DRAWINGS				REVISIONS				WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY				REHABILITATION OF PARKING GARAGES			
DATE			NUMBER	TITLE	DATE	NUM	DESCRIPTION	DATE	NUM	DESCRIPTION	OFFICE OF THE CHIEF OPERATING OFFICER				STANDARD STRUCTURAL REPAIR DETAILS			
01/2018					01/25/2018	0	FINAL SUBMITTAL				IRPG - FIXED FACILITIES				TYPICAL REPAIR DETAILS 12 OF 19			
01/2018											APPROVED				M NO.			
01/2018											JOHN PURDY				CONTRACT NO.			
01/2018											ENGINEERING MANAGER				SCALE			
01/2018											DATE				DRAWING NO.			
01/2018											DATE				SHEET NO.			
01/2018											ENGINEER OF RECORD				495 of 504			



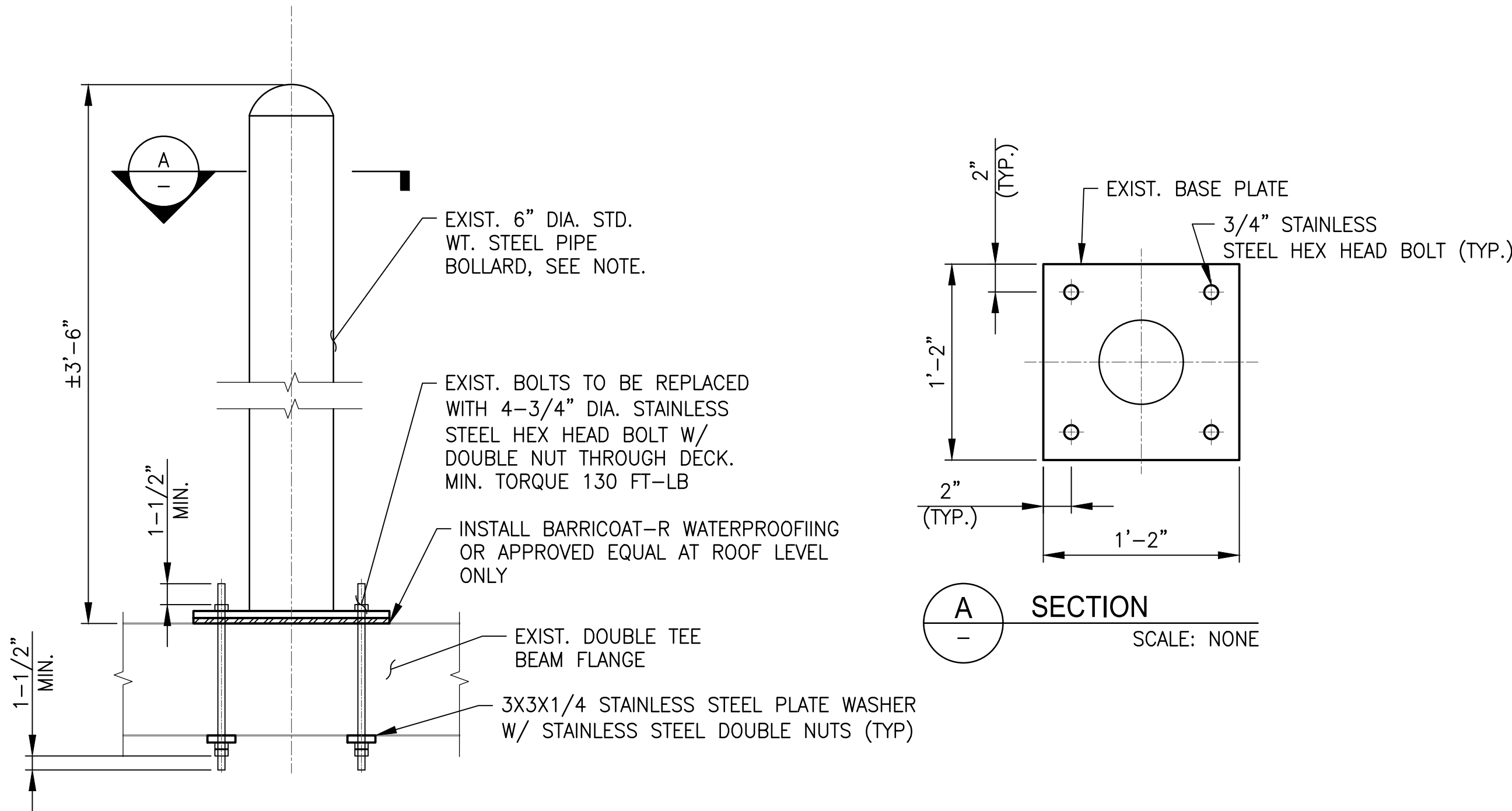
- NOTES:
- 1. ENSURE EXISTING COATING HAS SUFFICIENT BOND WITH CONCRETE.
 - 2. TEST AN AREA FOR COMPATIBILITY IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
 - 3. USE SIKALASTIC 720/745 AL OR APPROVED EQUAL.



DETERIORATED TRAFFIC TOPPING

23
S-513 TYPICAL TRAFFIC BEARING MEMBRANE

NOT TO SCALE



PIPE BOLLARD ANCHOR BOLT REPLACEMENT DETAIL

NOTE: SEE ARCHITECTURAL SPECIFICATION FOR BOLLARD PAINTING REQUIREMENTS.



TYPICAL DEFECT AT TRAFFIC BOLLARD

24
S-513 TYPICAL TRAFFIC BOLLARD REPAIR DETAIL

NOT TO SCALE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 34339
EXPIRATION DATE: 06/17/2019



GFP A Gannett Fleming/Parsors
JOINT VENTURE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 42582
EXPIRATION DATE: 08/13/2018

-COMAR 09.23.0310

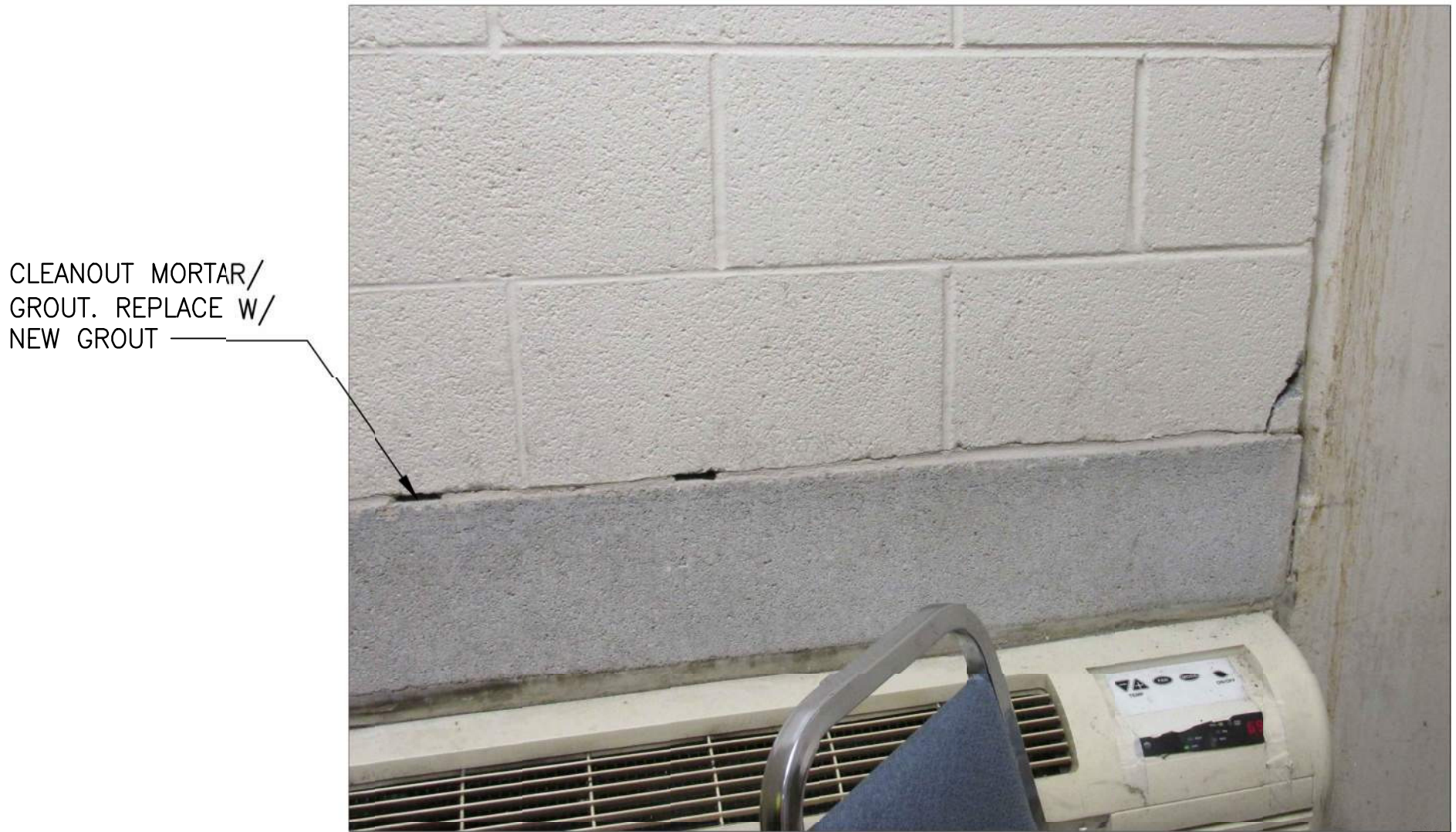
DESIGNED <u>M. PARK</u> DATE 01/2018			REFERENCE DRAWINGS		REVISIONS			<div><div><div>M</div><div>metro</div></div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>OFFICE OF THE CHIEF OPERATING OFFICER</div><div>IRPG - FIXED FACILITIES</div><div><div>APPROVED JOHN PURDY ENGINEERING MANAGER</div><div>01/25/2018 DATE</div><div><div>APPROVED</div><div>IFTEKHAR AHMAD / DIPANKAR SENGUPTA ENGINEER OF RECORD</div><div>01/25/2018 DATE</div></div></div></div>		REHABILITATION OF PARKING GARAGES STANDARD STRUCTURAL REPAIR DETAILS				
			NUMBER	TITLE	DATE	NUM	DESCRIPTION							
DRAWN <u>L. NGUYEN</u> DATE 01/2018					01/25/2018	0	FINAL SUBMITTAL	TYPICAL REPAIR DETAILS 13 OF 19						
CHECKED <u>L. KATSMAN</u> DATE 01/2018								M NO. CONTRACT NO. SCALE DRAWING NO. SHEET NO.						
								M1301	FQ18064	NOT TO SCALE	S-513	496 of 504		



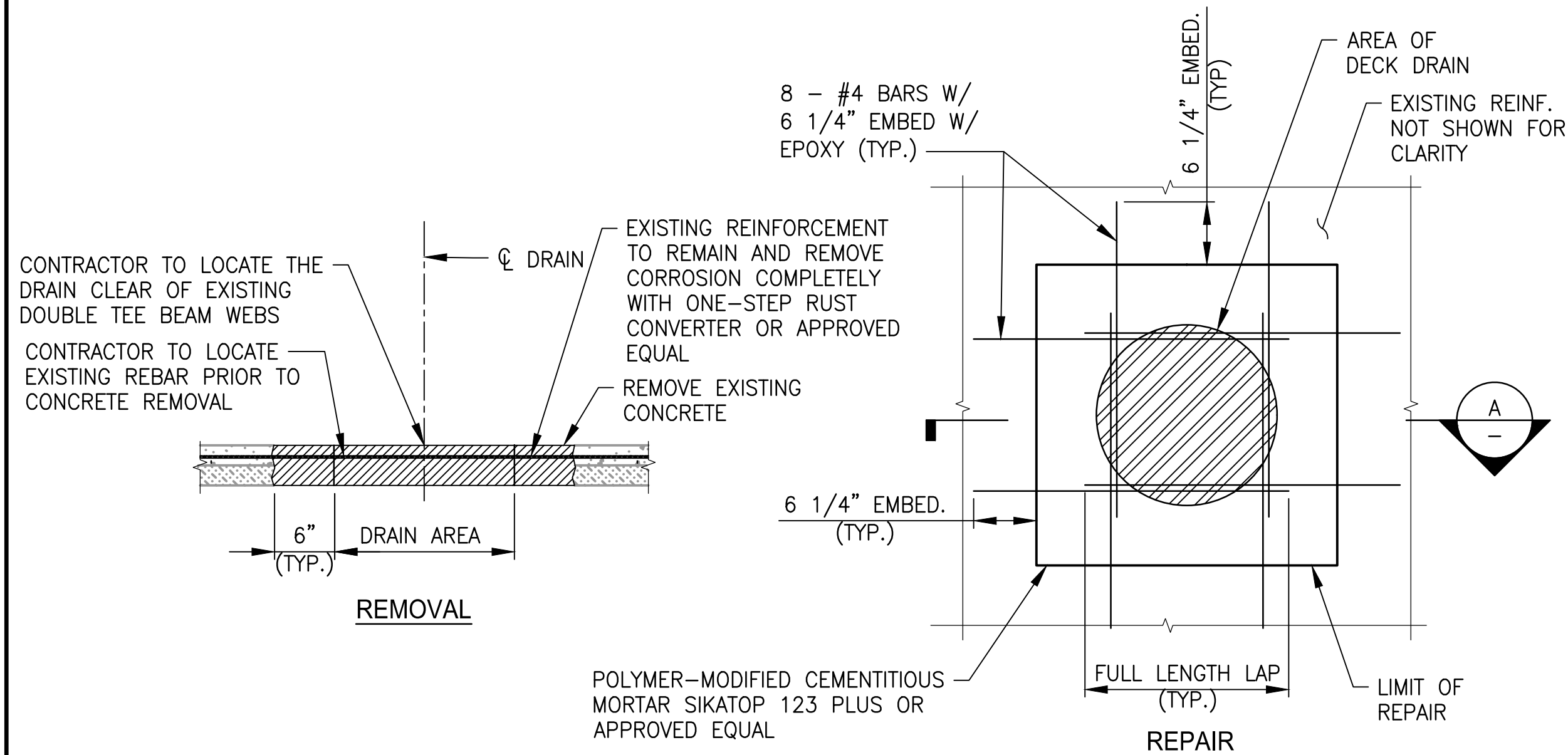
25 TYPICAL MISSING PLASTIC CAP AT VERTICAL LIFTING POINT
S-514 NOT TO SCALE



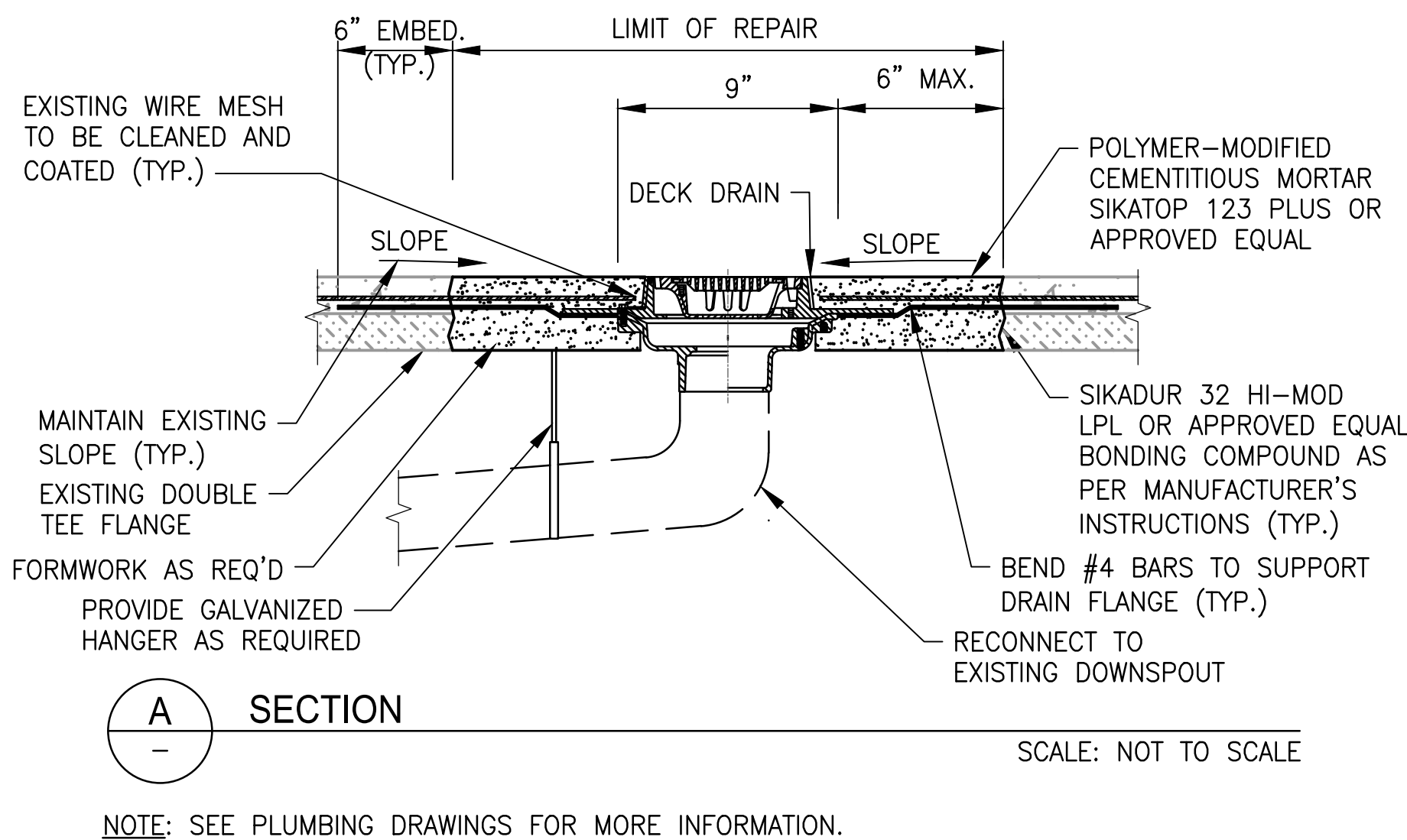
27 TYPICAL EFFLORESCENCE / RUST STAINING ON CONCRETE
S-514 NOT TO SCALE



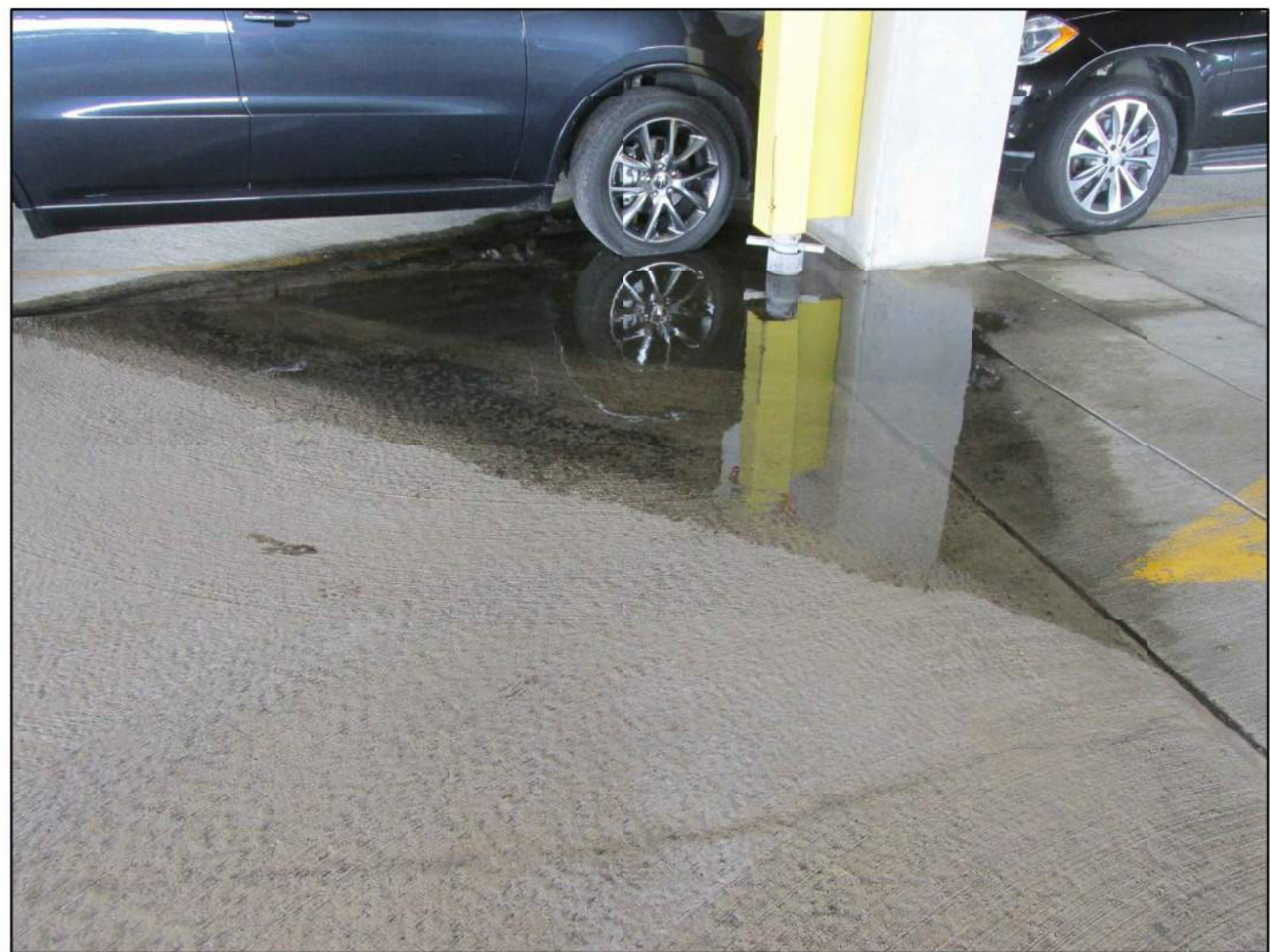
28 TYPICAL MORTAR / GROUT DETERIORATION
S-514 NOT TO SCALE



26 TYPICAL PONDING AREA WITH DRAIN INSTALLATION DETAIL
S-514



NOTE: SEE PLUMBING DRAWINGS FOR MORE INFORMATION.



TYPICAL WATER PONDING

SCALE: NOT TO SCALE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 34339
EXPIRATION DATE: 06/17/2019



GFP A Gannett Fleming/Parsors
JOINT VENTURE



"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

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-COMAR 09.23.0310

			REFERENCE DRAWINGS		REVISIONS		
			NUMBER	TITLE	DATE	NUM	DESCRIPTION
DESIGNED	M. PARK	01/2018			01/25/2018	0	FINAL SUBMITTAL
DATE							
DRAWN	L. NGUYEN	01/2018					
DATE							
CHECKED	L. KATSMAN	01/2018					
DATE							

**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

OFFICE OF THE CHIEF OPERATING OFFICER
IRPG - FIXED FACILITIES

APPROVED
JOHN PURDY
ENGINEERING MANAGER

01/25/2018
DATE

APPROVED
IFTIKHAR AHMAD / DIPANKAR SENGUPTA
ENGINEER OF RECORD

01/25/2018
DATE

REHABILITATION OF PARKING GARAGES
STANDARD STRUCTURAL REPAIR DETAILS

TYPICAL REPAIR DETAILS 14 OF 19

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1301	FQ18064	NOT TO SCALE	S-514	497 of 504



SANDBLAST CLEAN, PRIME AND PAINT CONNECTION PLATE CORRODED AREA. APPLY EPOXY SEALANT.

29
S-515

TYPICAL CONNECTION PLATE CORROSION

NOT TO SCALE



CLEAN OUT CRACK/ HONEY COMB BY HIGH PRESSURE AIR BLAST AND VACUUM CLEAN SURFACE. COAT AREA WITH WATERPROOFING.

30
S-515

TYPICAL MAP CRACKING / HONEY COMB

NOT TO SCALE



CLEAN WALL SURFACE AND IDENTIFY CRACK LOCATION. PERFORM VERTICAL CRACK REPAIR.

31
S-515

TYPICAL WATER LEAKING

NOT TO SCALE

NOTE: FOR VERTICAL CRACK, SEE REPAIR DETAIL 9 SHEET S-505

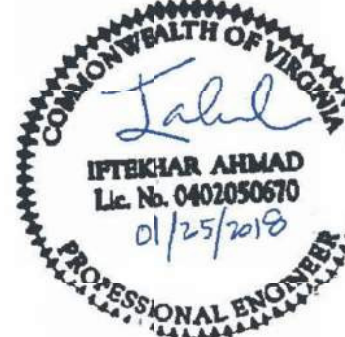


REMOVE CORRODED BOLT. SANDBLAST CLEAN, PRIME AND PAINT CORRODED AREA. INSTALL NEW BOLT.

32
S-515

TYPICAL CORRODED / MISSING ANCHOR BOLTS

NOT TO SCALE



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LICENSE No. 34338
EXPIRATION DATE: 06/17/2019



GFP A Gannett Fleming/Parsors
JOINT VENTURE

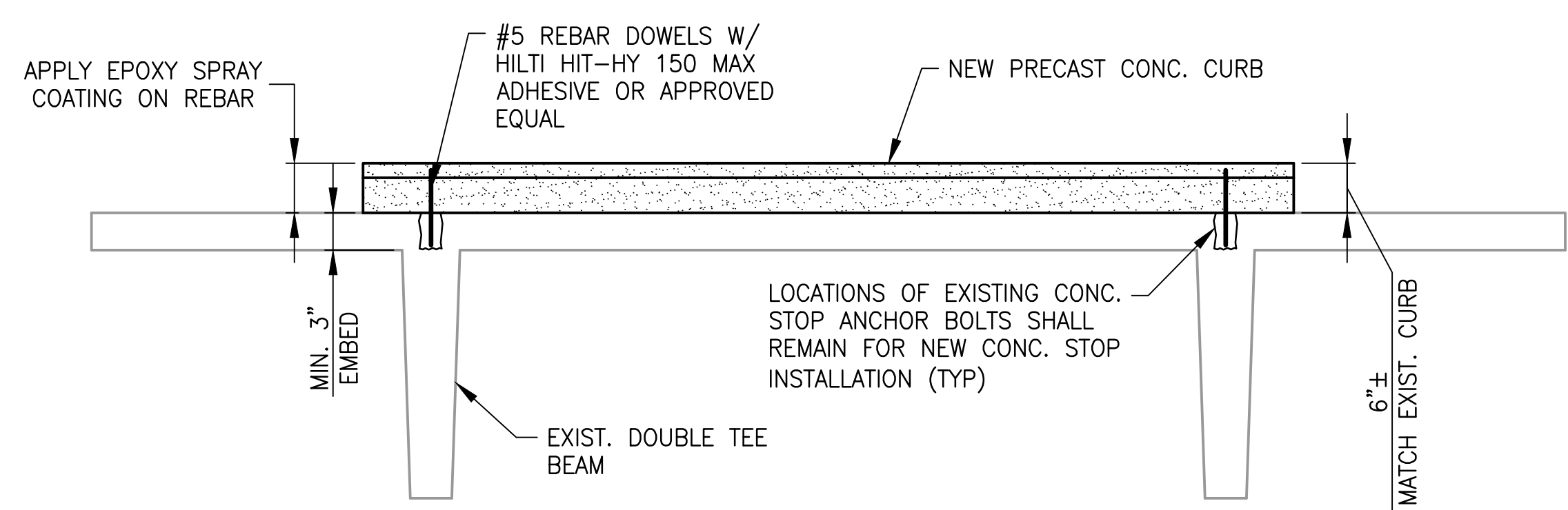


"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

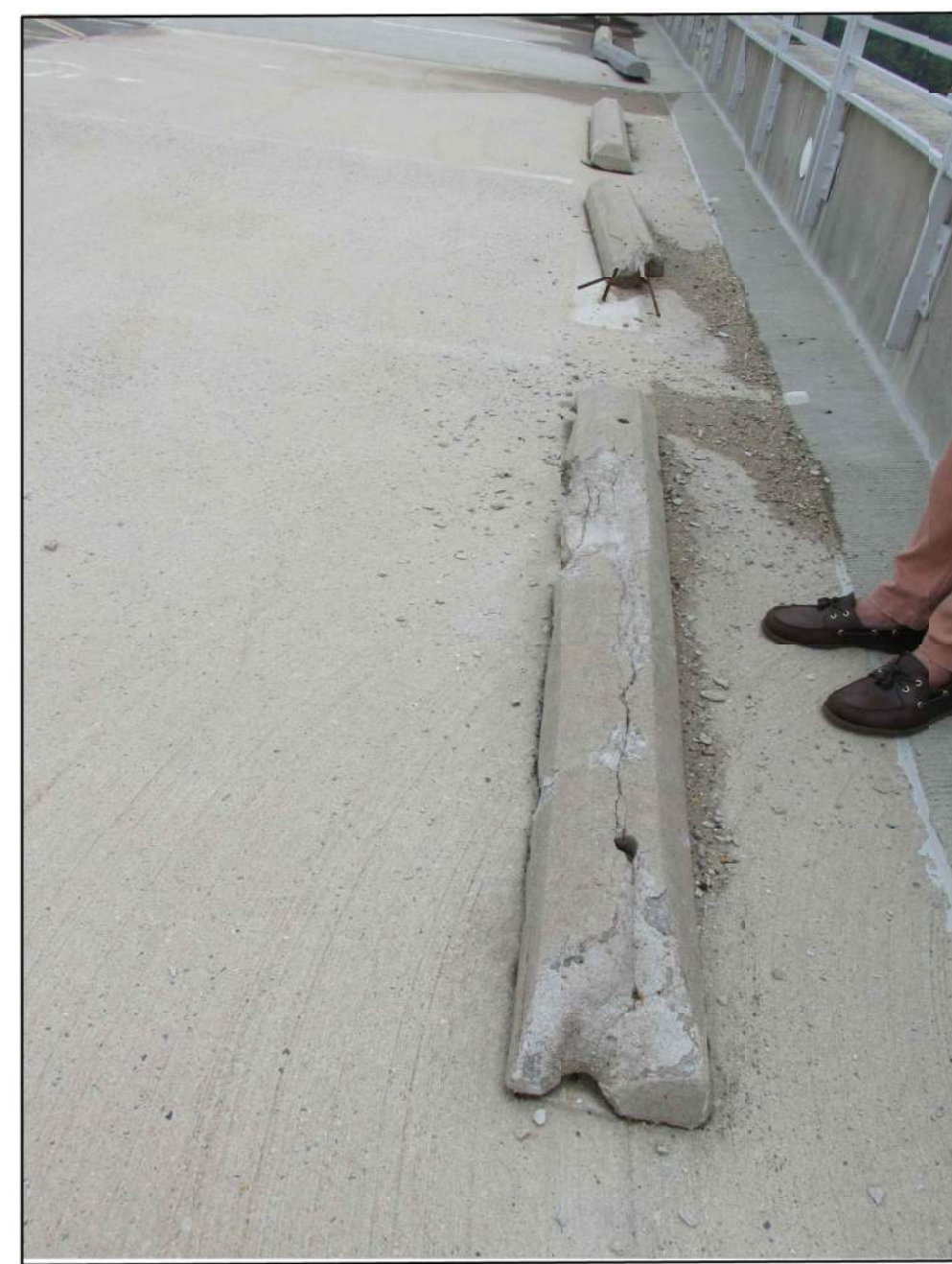
LICENSE No. 42582
EXPIRATION DATE: 08/13/2018

-COMAR 09.23.0310

<div>DESIGNED <u>M. PARK</u> DATE 01/2018</div> <div>DRAWN <u>L. NGUYEN</u> DATE 01/2018</div> <div>CHECKED <u>L. KATSMAN</u> DATE 01/2018</div>	REFERENCE DRAWINGS		REVISIONS				<div><div><div>M</div><div>metro</div></div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>OFFICE OF THE CHIEF OPERATING OFFICER</div><div>IRPG - FIXED FACILITIES</div><div><div>APPROVED  01/25/2018</div><div>JOHN PURDY ENGINEERING MANAGER</div><div>DATE</div></div><div><div>APPROVED  01/25/2018</div><div>IFTEKHAR AHMAD / DIPANKAR SENGUPTA ENGINEER OF RECORD</div><div>DATE</div></div></div>		REHABILITATION OF PARKING GARAGES STANDARD STRUCTURAL REPAIR DETAILS				
	NUMBER	TITLE	DATE	NUM	DESCRIPTION	TYPICAL REPAIR DETAILS 15 OF 19							
			01/25/2018	0	FINAL SUBMITTAL								



33 TYPICAL CONCRETE STOP CURB REPAIR DETAIL
S-516 NOT TO SCALE



DAMAGED CONCRETE STOP CURB



REALIGN AND INSTALL WITH NEW ANCHORS AND PAINT. REMOVE AND REPLACE SHIFTED ELASTOMERIC BEARING PAD. PREPARE ANGLE SURFACE AND APPLY ADHESIVE

34 TYPICAL DISPLACED ANGLE/ MISSING ANCHOR AT EXPANSION JOINT SUPPORT
S-516 NOT TO SCALE



CLEAN CORRODED AREA AND APPLY ZRC OR APPROVED EQUAL GALVANIZED COATING.

35 TYPICAL CORROSION AT WELDING
S-516 NOT TO SCALE



"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."



LICENSE No. 34339
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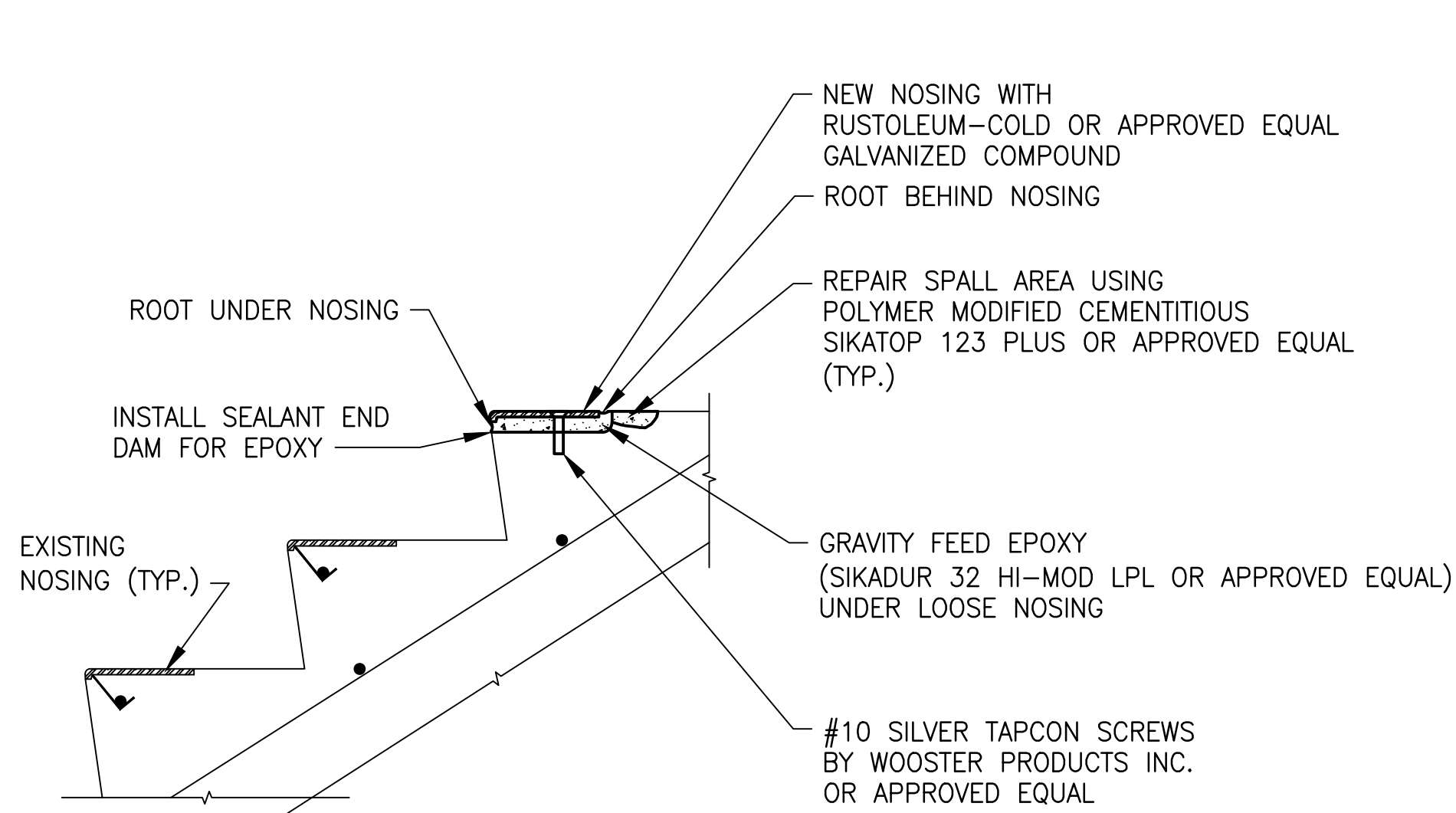
GFP A Gannett Fleming/Parsors
JOINT VENTURE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

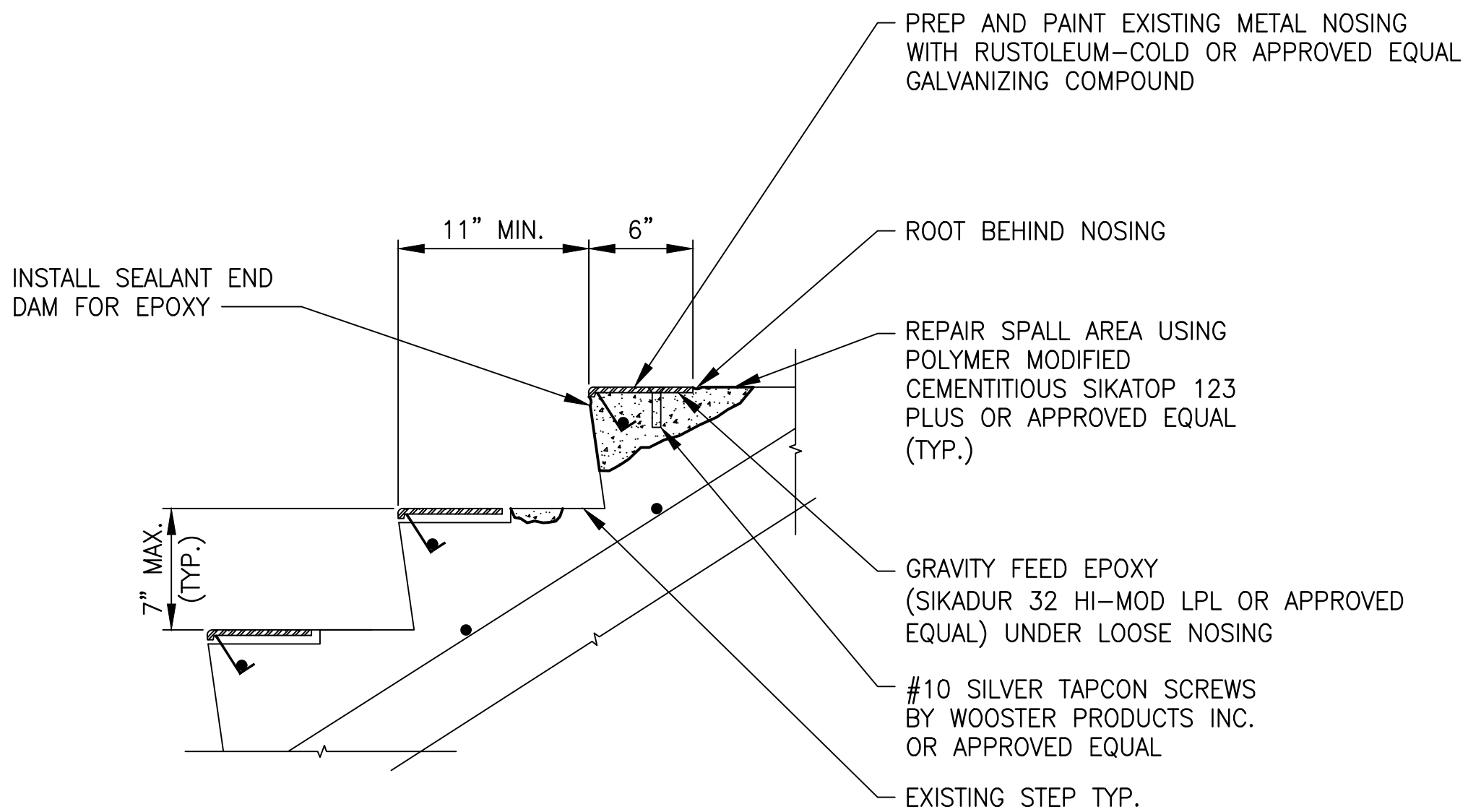
LICENSE No. 42582
EXPIRATION DATE: 08/13/2018

-COMAR 09.23.0310

DESIGNED <u>M. PARK</u> DATE 01/2018			REFERENCE DRAWINGS		REVISIONS		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY OFFICE OF THE CHIEF OPERATING OFFICER IRPG - FIXED FACILITIES		REHABILITATION OF PARKING GARAGES STANDARD STRUCTURAL REPAIR DETAILS TYPICAL REPAIR DETAILS 16 OF 19							
			NUMBER	TITLE	DATE	NUM								DESCRIPTION		
DRAWN <u>L. NGUYEN</u> DATE 01/2018					01/25/2018	0	FINAL SUBMITTAL	APPROVED  DATE 01/25/2018 JOHN PURDY ENGINEERING MANAGER		APPROVED  DATE 01/25/2018 IFTEKHAR AHMAD / DIPANKAR SENGUPTA ENGINEER OF RECORD		M NO. M1301	CONTRACT NO. FQ18064	SCALE NOT TO SCALE	DRAWING NO. S-516	SHEET NO. 499 of 504
CHECKED <u>L. KATSMAN</u> DATE 01/2018																
</																



STAIR NOSING INSTALLATION W/ SPALL AT TREAD



STAIR WITH SPALL



MISSING STAIR NOSING WITH SPALL AT TREAD



STAIR NOSING WITH SPALL AT RISER

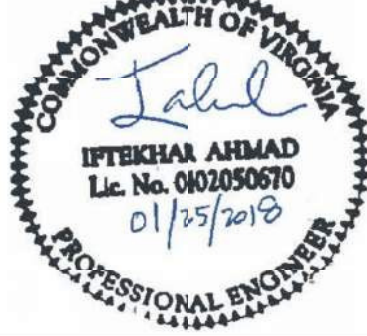
NOTES:

- UPON REMOVAL OF ALL DETERIORATED STEEL STAIR NOSING, CONCRETE TREADS AND RISERS TO BE POWER WASHED TO REMOVE EXISTING STAINING ASSOCIATED WITH THE CORROSION OF THE STEEL STAIR TREADS.
- NEW NOSING SHALL BE ALUMINUM WITH A NON-SKID SURFACE.
- CONTRACTOR TO REMOVE ALL DEMOLISHED MATERIALS PROMPTLY FROM SITE.
- ALUMINUM NOSING REQUIRES BITUMINOUS COATING WHEN IN CONTACT WITH CONCRETE.

SCALE: NOT TO SCALE

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LICENSE No. 34339
EXPIRATION DATE: 06/17/2019



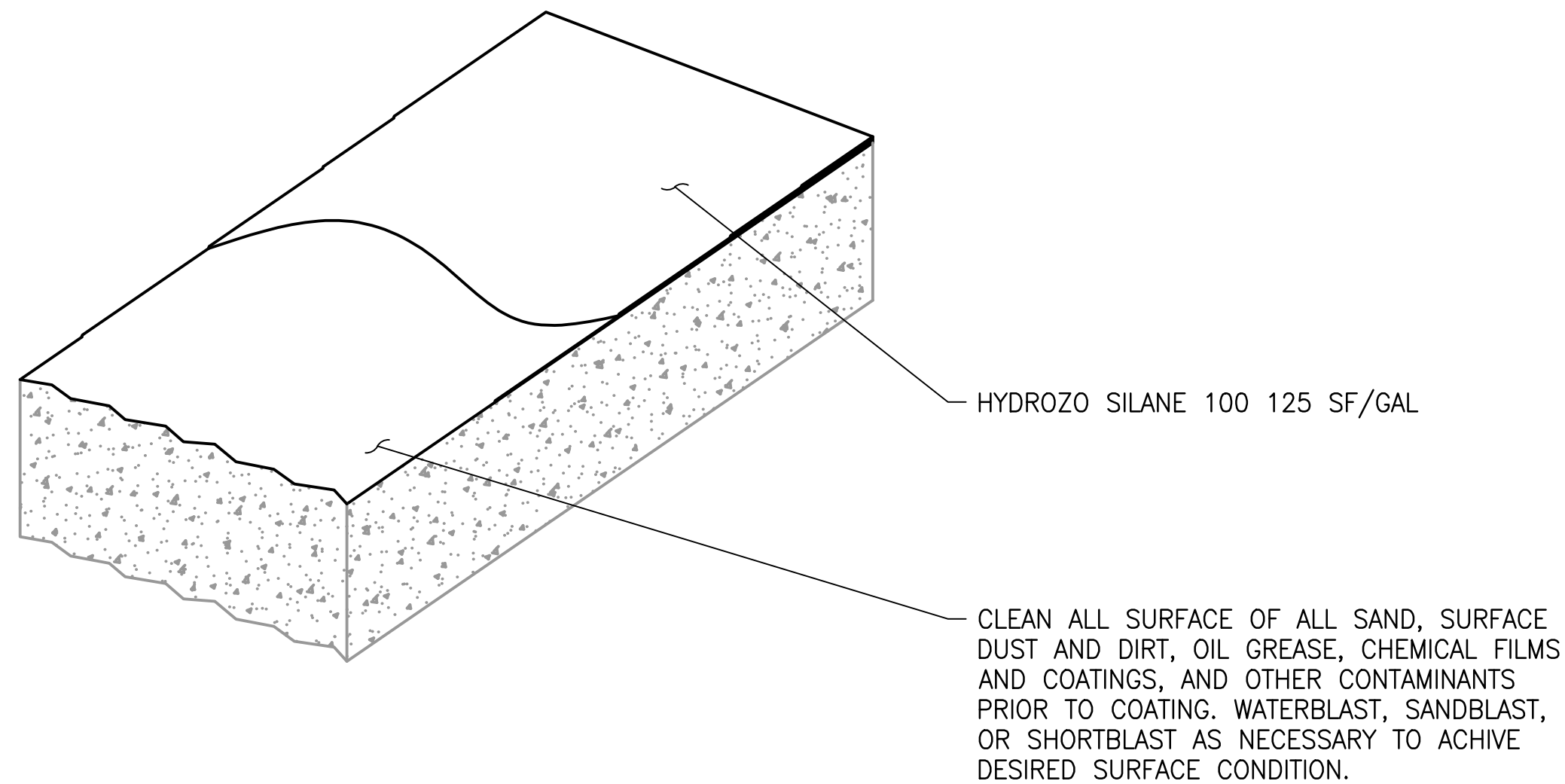
GFP A Gannett Fleming/Parsors
JOINT VENTURE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

LICENSE No. 42582
EXPIRATION DATE: 08/13/2018

-COMAR 09.23.0310

DESIGNED			REFERENCE DRAWINGS		REVISIONS			APPROVED		APPROVED		REHABILITATION OF PARKING GARAGES STANDARD STRUCTURAL REPAIR DETAILS			
			NUMBER	TITLE	DATE	NUM	DESCRIPTION								
M. PARK					01/25/2018	0	FINAL SUBMITTAL					TYPICAL REPAIR DETAILS 18 OF 19			
L. NGUYEN															
L. KATSMAN															
								JOHN PURDY ENGINEERING MANAGER		IFTEKHAR AHMAD / DIPANKAR SENGUPTA ENGINEER OF RECORD		M NO.	CONTRACT NO.	SCALE	SHEET NO.
												M1301	FQ18064	NOT TO SCALE	501 of 504



NOTES:

1. CAULKING AND SEALANT WORK MAYBE DONE BEFORE OR AFTER THE APPLICATION OF THE SEALER. ALLOW SEALANT TO FULLY CURED BEFORE APPLICATION OF HYDROZO SILANE 100.
2. DO NOT APPLY DURING INCLEMENT WEATHER OR WHEN INCLEMENT WEATHER IS ANTICIPATED WITHIN 12 HOURS.
3. PAINT LINE STRIPPING AFTER THE CURRING OF THE SEALER.

39 TYPICAL SILANE SEALER COATING SYSTEM DETAIL (INTERMEDIATE LEVEL)

S-519

NOT TO SCALE



REPAIR CRACK WITH SIKADUR 31
HI-MOD GEL OR APPROVED EQUAL
AFTER CLEANING CRACK SURFACE.

NOTE: FOR SEVERE LONGITUDINAL CRACK AT
UNDERSIDE OF DOUBLE TEE, SEE
DETAIL 36/S-517.

40 TYPICAL MINOR LONGITUDINAL CRACK AT UNDERSIDE OF DOUBLE TEE

S-519

NOT TO SCALE

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."

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GFP A Gannett Fleming/Parsors
JOINT VENTURE

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LICENSE No. 42582

EXPIRATION DATE: 08/13/2018

-COMAR 09.23.0310



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF THE CHIEF OPERATING OFFICER
IRPG - FIXED FACILITIES

APPROVED
JOHN PURDY
ENGINEERING MANAGER

01/25/2018
DATE

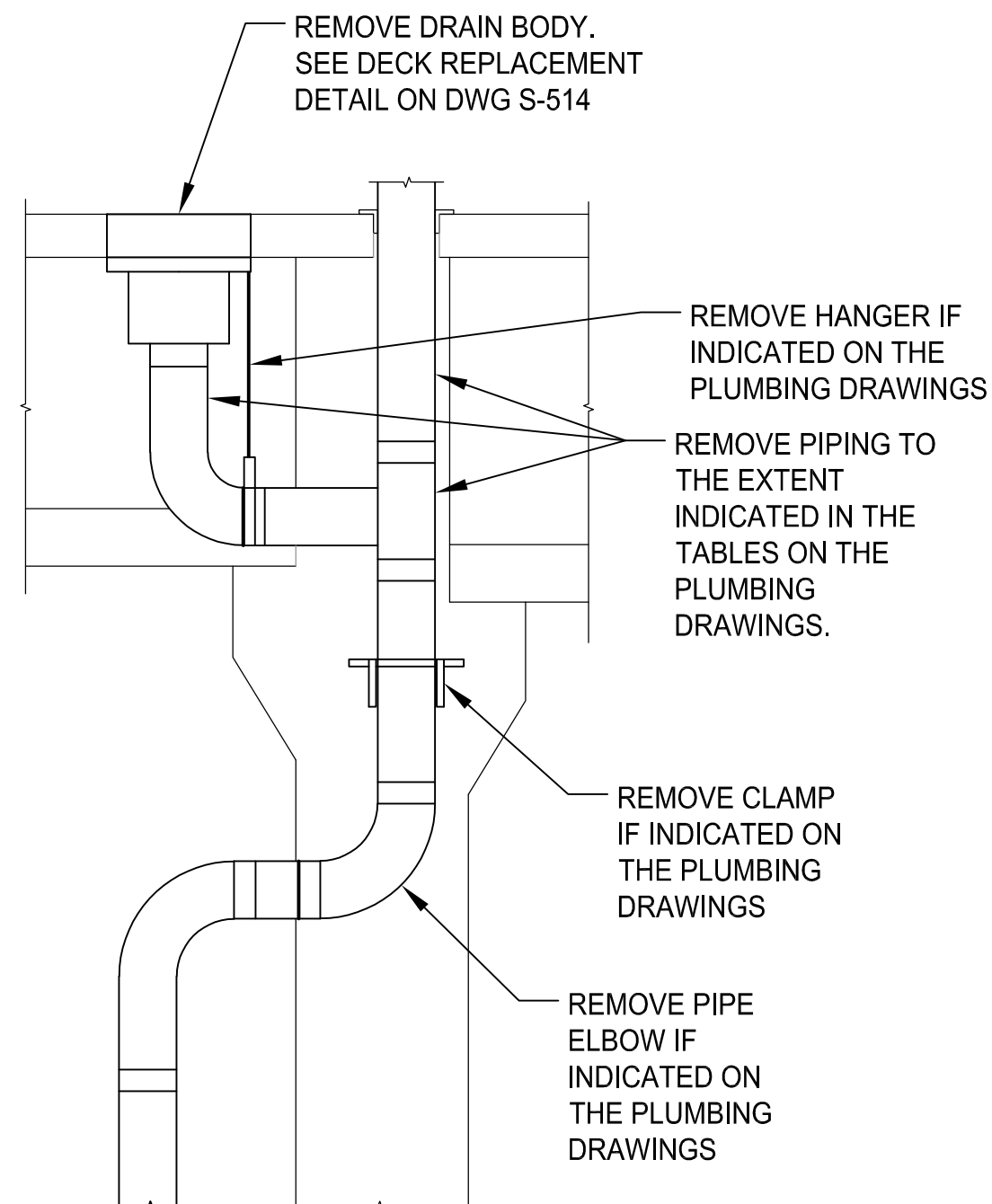
APPROVED
IFTIKHAR AHMAD / DIPANKAR SENGUPTA
ENGINEER OF RECORD

01/25/2018
DATE

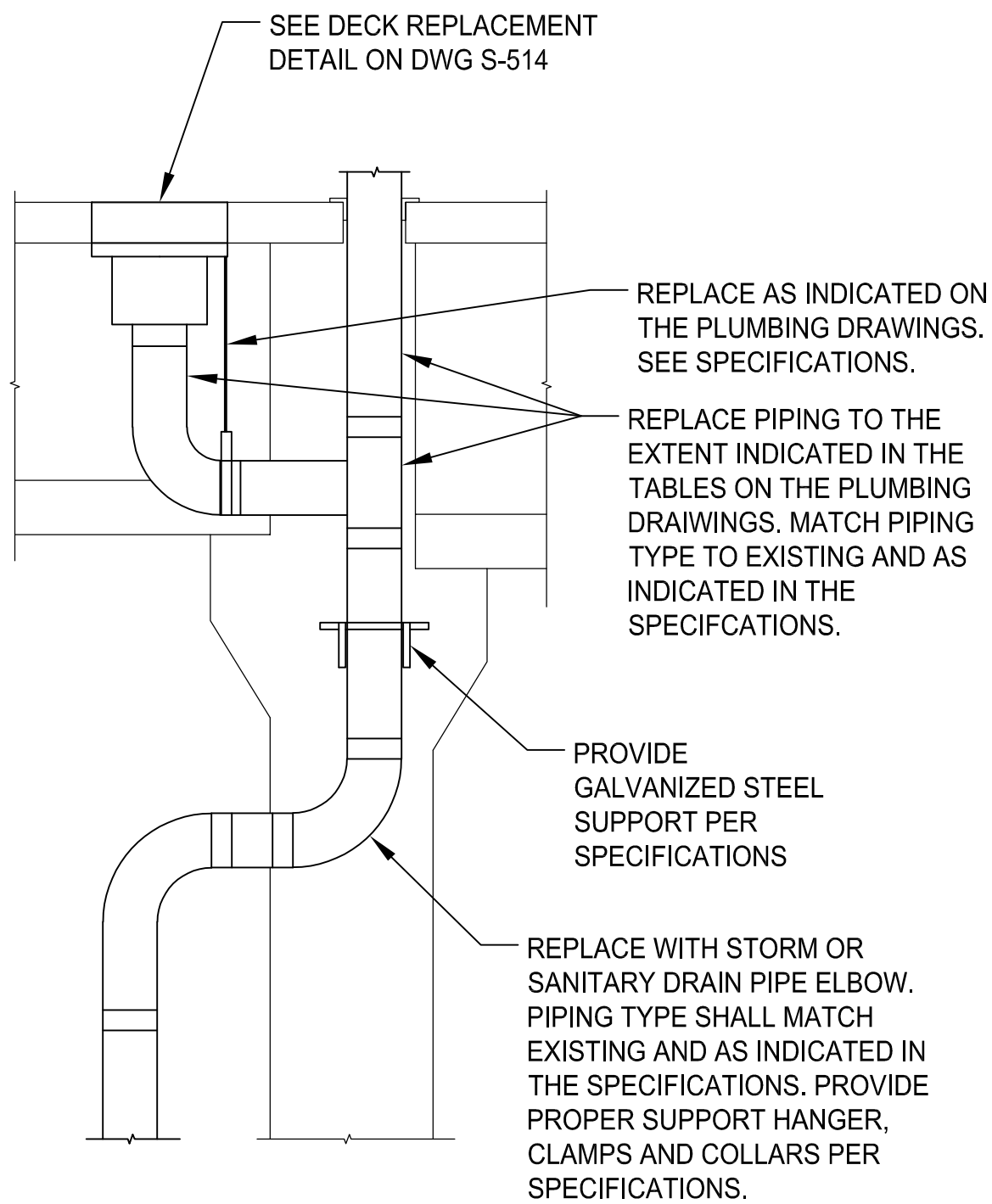
REHABILITATION OF PARKING GARAGES
STANDARD STRUCTURAL REPAIR DETAILS

TYPICAL REPAIR DETAILS 19 OF 19

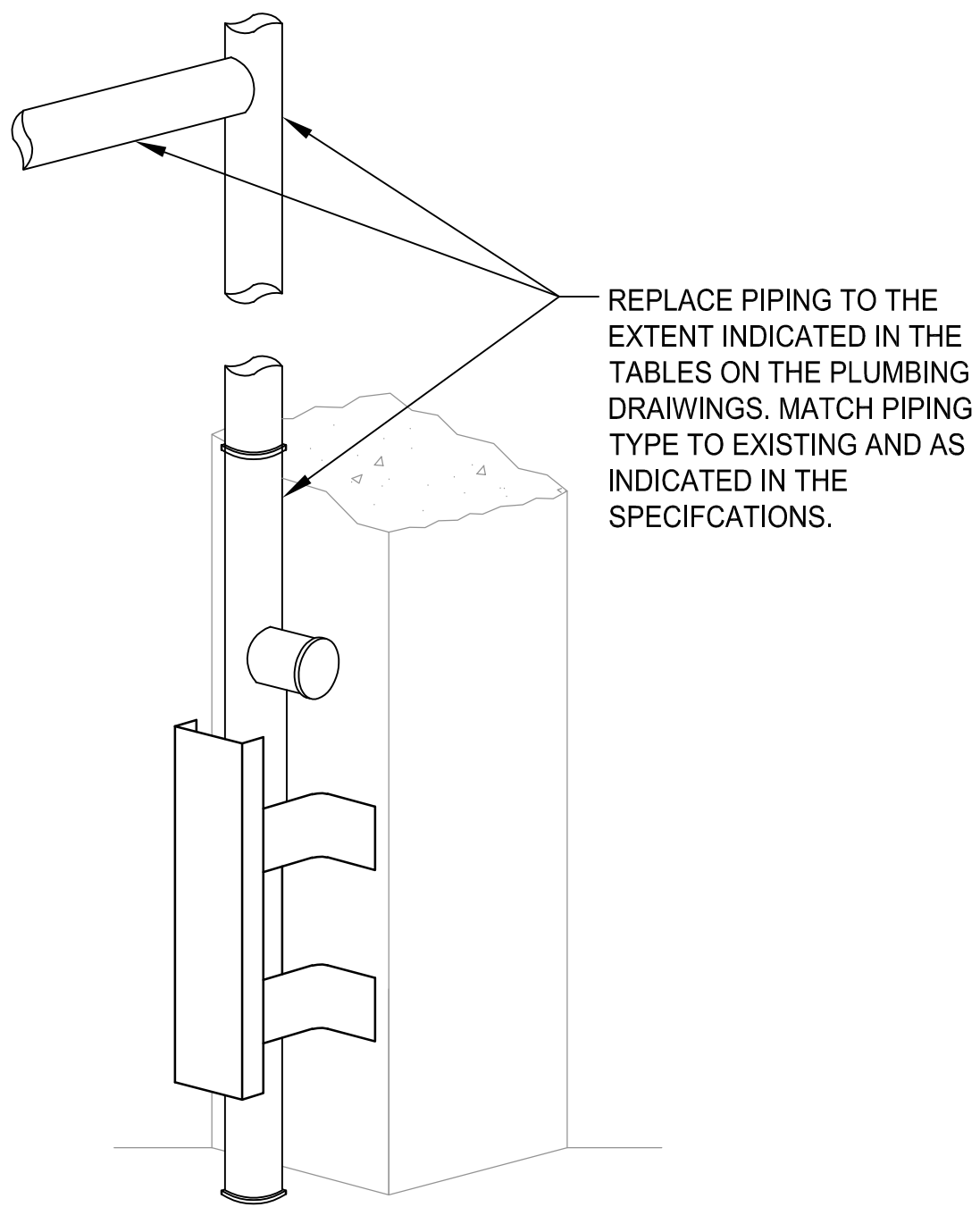
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1301	FQ18064	NOT TO SCALE	S-519	502 of 504



REMOVAL

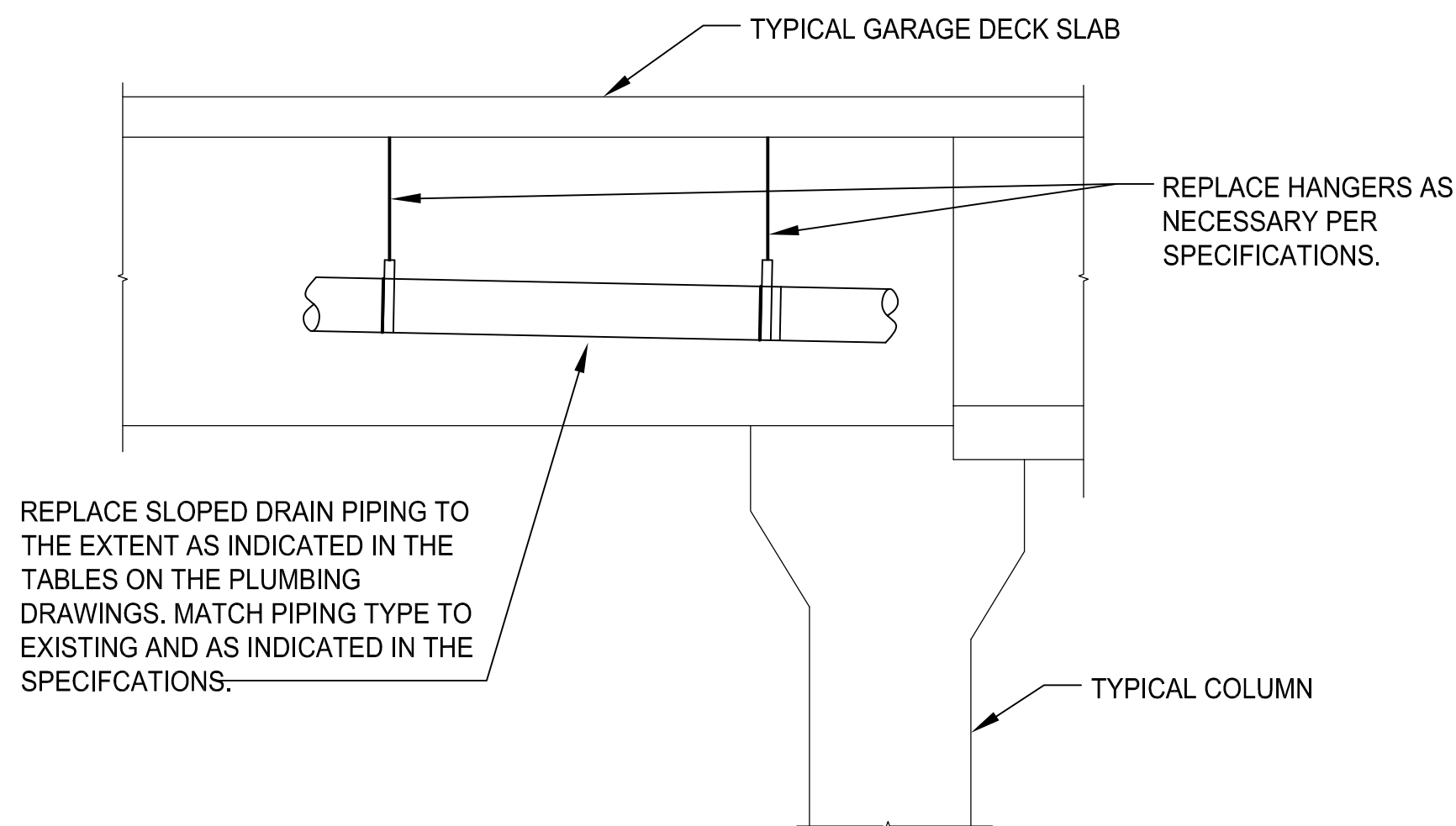


REPLACEMENT

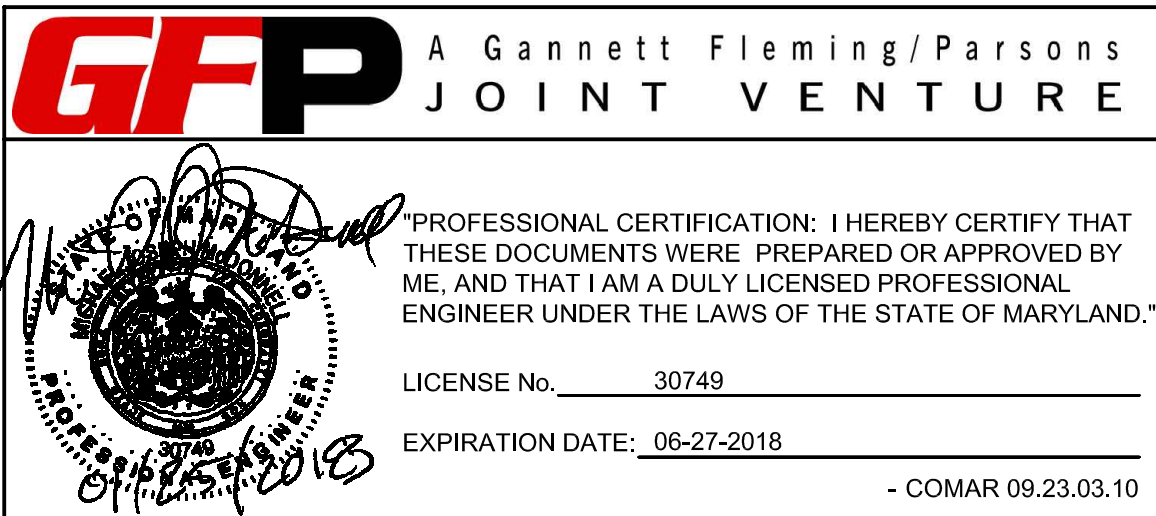
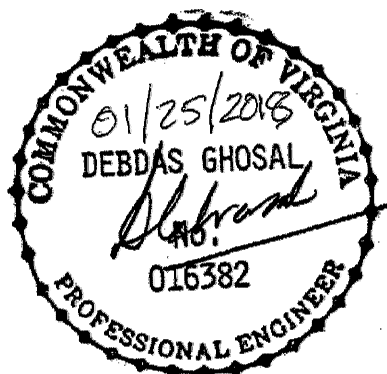



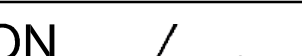
1 TYPICAL STANDPIPE AND STORM DRAIN REPLACEMENT DETAILS
P-500 N.T.S.

2 TYPICAL STANDPIPE AND STORM DRAIN RISER REPAIR DETAIL
P-500 N.T.S.



3 TYPICAL SLOPED DRAIN PIPING REPLACEMENT DETAIL
P-500



DESIGNED M.MCDONNELL DATE 01/2018	REFERENCE DRAWINGS		REVISIONS			<div><div>M</div><div>metro</div></div> <div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div> <div>OFFICE OF DESIGN AND CONSTRUCTION</div> <div>IRPG - FIXED FACILITIES</div> <div><div>APPROVED</div><div></div><div>01/25/2018</div><div>DATE</div><div>JOHN PURDY</div><div>ENGINEERING MANAGER</div></div> <div><div>APPROVED</div><div></div><div>01/25/2018</div><div>DATE</div><div>MICHAEL J. McDONNELL / DEBDAS GHOSAL</div><div>ENGINEER OF RECORD</div></div>	REHABILITATION OF WMATA PARKING FACILITIES				
	NUMBER	TITLE	DATE	NUM	DESCRIPTION		TYPICAL PLUMBING REPAIR DETAILS				
			01/25/2018	0	FINAL SUBMITTAL						
DRAWN M.MCDONNELL DATE 01/2018							M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
CHECKED R.LAUFER DATE 01/2018							M1301	FQ18064	NONE	P-500	503 of 503