

CONSTRUCTION PLANS FOR 201 WILLIAM ST, CONCRETE SPALLING REPAIR

SITE LOCATION



LOCATION MAP:

PROJECT LOCATION:
201 WILLIAM ST,
KEY WEST, FL 33040

THIS DRAWING IS NOT VALID WITHOUT THE
SIGNATURE AND ORIGINAL SEAL

SIGNATURE:

DATE:

SERGE MASHTAKOV
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:
STATUS: FINAL			



ARTIBUS DESIGN
3710 N. ROOSEVELT BLVD
KEY WEST, FL 33040
(305) 304-3512
WWW.ARTIBUSDESIGN.COM
CA # 30835

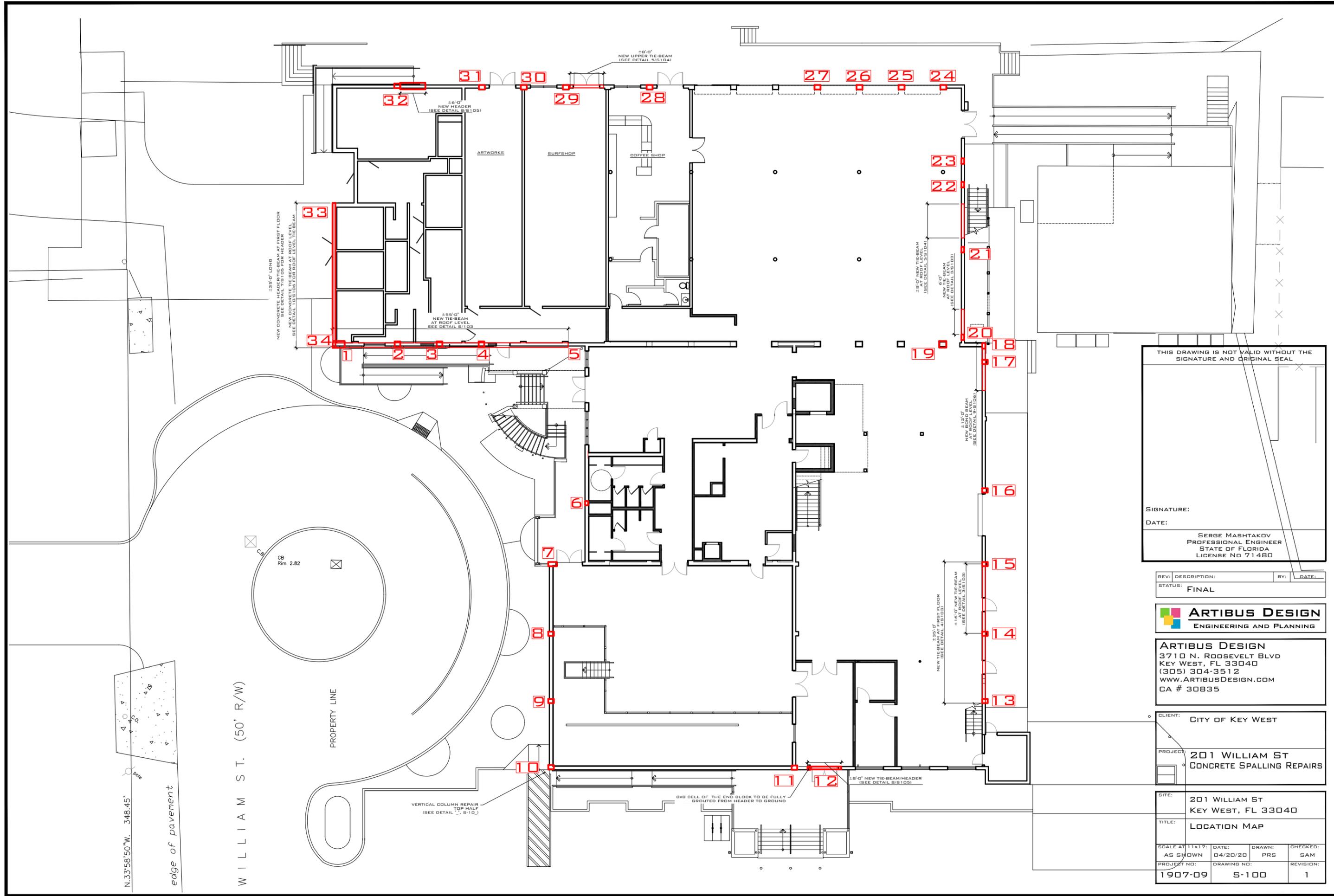
CLIENT: CITY OF KEY WEST

PROJECT: 201 WILLIAM ST
CONCRETE SPALLING REPAIRS

SITE: 201 WILLIAM ST
KEY WEST, FL 33040

TITLE: COVER

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/20/20	PRS	SAM
PROJECT NO:	DRAWING NO:		REVISION:
1907-09	G-100		1



THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

SIGNATURE: _____
 DATE: _____

SERGE MASHTAKOV
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 LICENSE NO 71480

REV: DESCRIPTION: _____ BY: _____ DATE: _____
 STATUS: FINAL

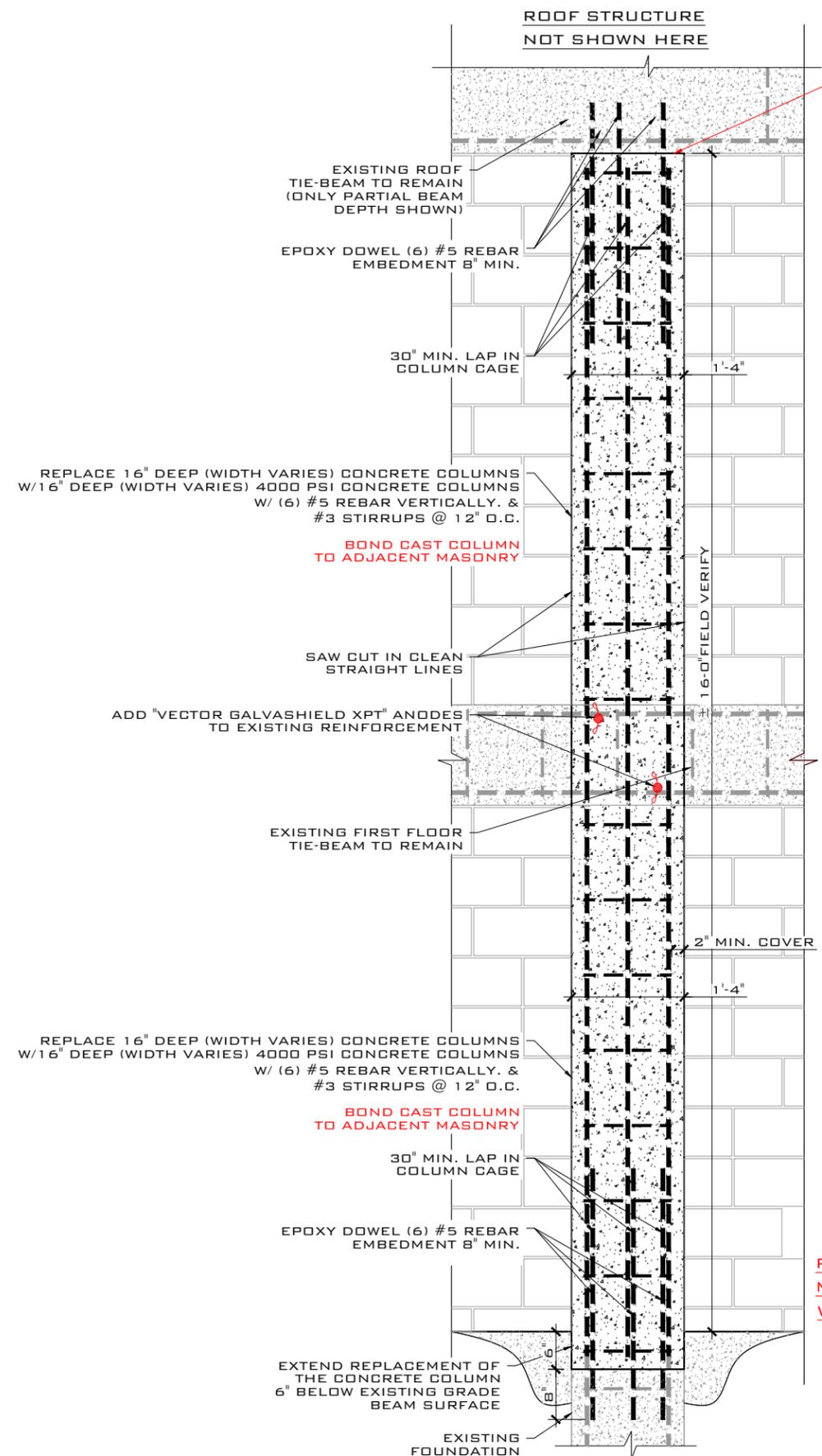


ARTIBUS DESIGN
 3710 N. ROOSEVELT BLVD
 KEY WEST, FL 33040
 (305) 304-3512
 WWW.ARTIBUSDESIGN.COM
 CA # 30835

CLIENT: CITY OF KEY WEST
 PROJECT: 201 WILLIAM ST
 CONCRETE SPALLING REPAIRS

SITE: 201 WILLIAM ST
 KEY WEST, FL 33040
 TITLE: LOCATION MAP

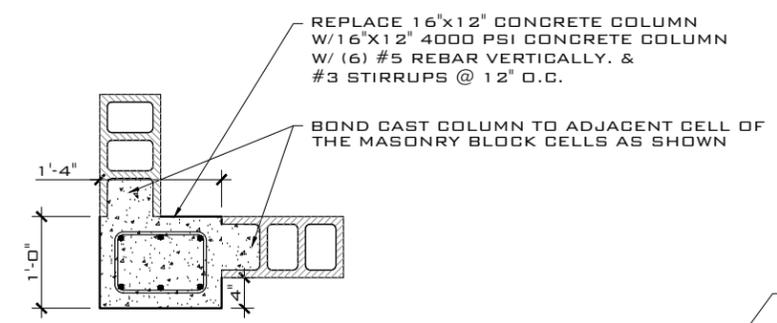
SCALE AT 1/16"=1'-0"	DATE: 04/20/20	DRAWN: PRS	CHECKED: SAM
PROJECT NO: 1907-09	DRAWING NO: S-100	REVISION: 1	



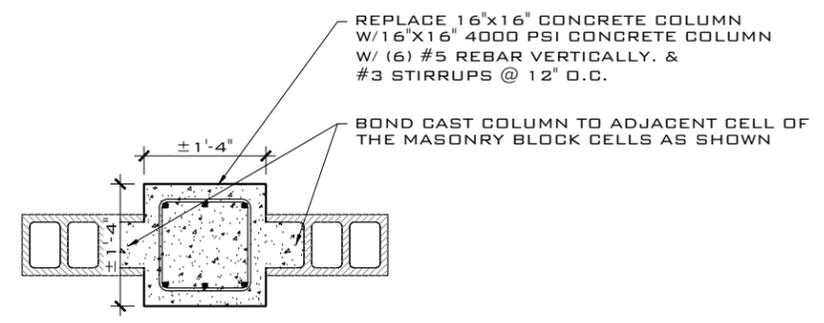
FOR LOCATION 2, EXTEND INTO TIE-BEAM TO FOLLOW OPENING CRACKS
 USE STANDARD HOOKS FOR BEAM TO COLUMN DEVELOPMENT AND ADD "VECTOR GALVASHIELD XPT" ANODES TO EXISTING REINFORCEMENT

FIELD VERIFY ALL DIMENSIONS.
 MATCH NEW COLUMN WIDTH W/ EXISTING COLUMN WIDTH

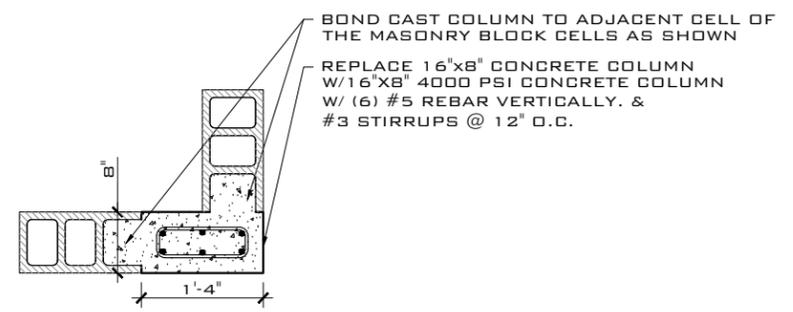
DETAIL 1: TYPICAL 16" DEEP COLUMN REPLACEMENT FOR LOCATIONS 1,2,3,4,18&19 (DIMENSION VARIES)
 SCALE:NTS



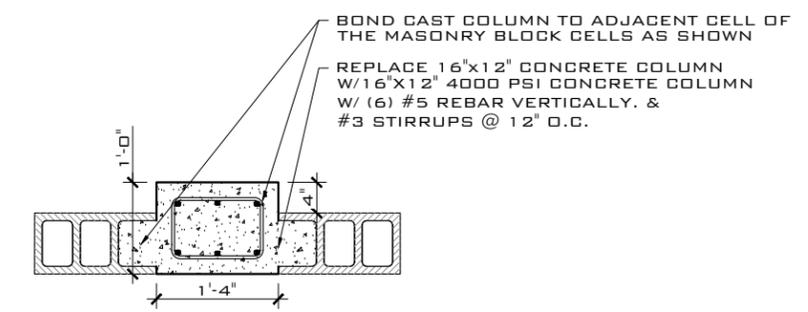
PLAN VIEW FOR LOCATION 1
 SCALE: NTS



PLAN VIEW FOR LOCATION 2,3&4
 SCALE: NTS



PLAN VIEW FOR LOCATION 18
 SCALE: NTS



PLAN VIEW FOR LOCATION 19
 SCALE: NTS

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

SIGNATURE: _____
 DATE: _____

SERGE MASHTAKOV
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:
	FINAL		



ARTIBUS DESIGN
 3710 N. ROOSEVELT BLVD
 KEY WEST, FL 33040
 (305) 304-3512
 WWW.ARTIBUSDESIGN.COM
 CA # 30835

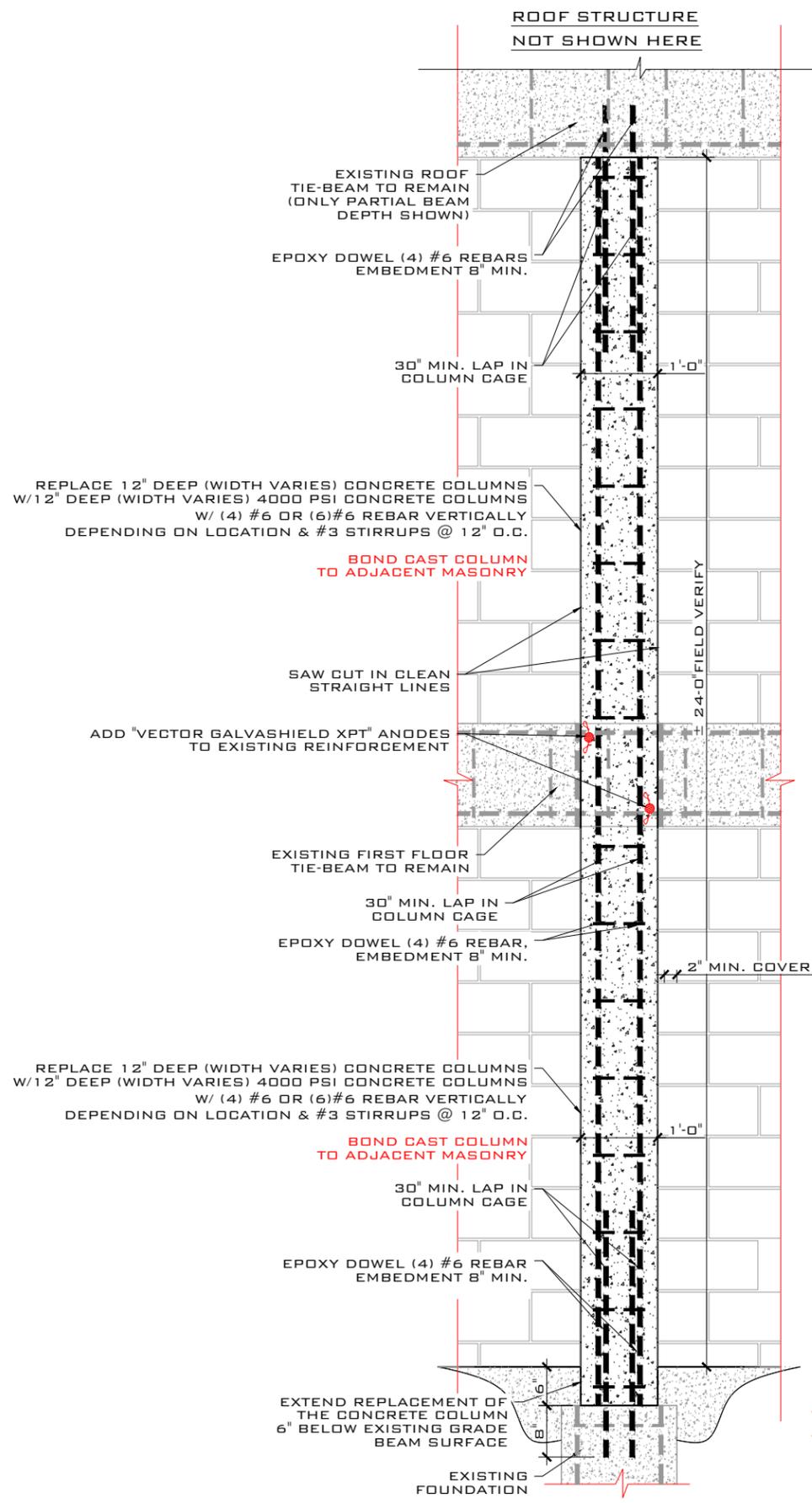
CLIENT: CITY OF KEY WEST

PROJECT: 201 WILLIAM ST
 CONCRETE SPALLING REPAIRS

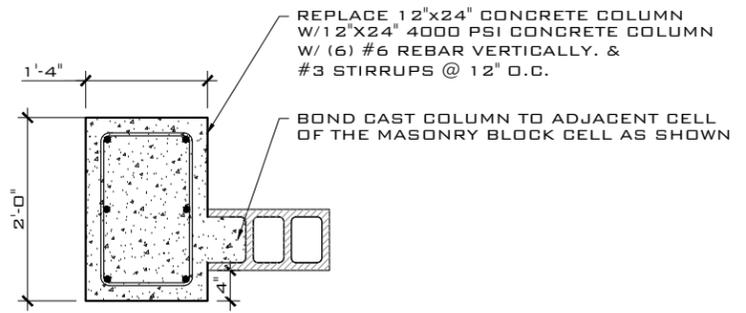
SITE: 201 WILLIAM ST
 KEY WEST, FL 33040

TITLE: DETAILS

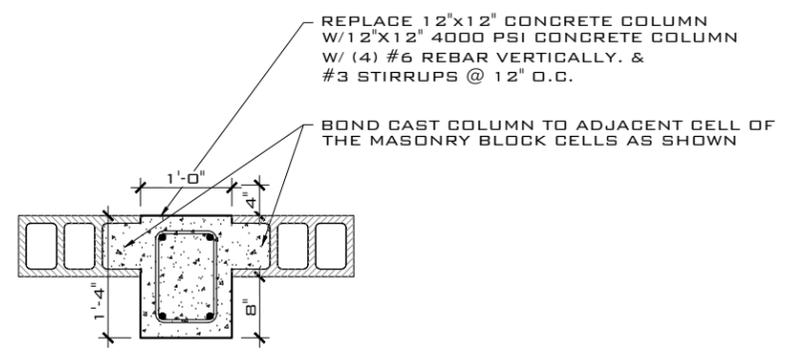
SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/20/20	PRS	SAM
PROJECT NO:	DRAWING NO:	REVISION:	
1907-09	S-101	1	



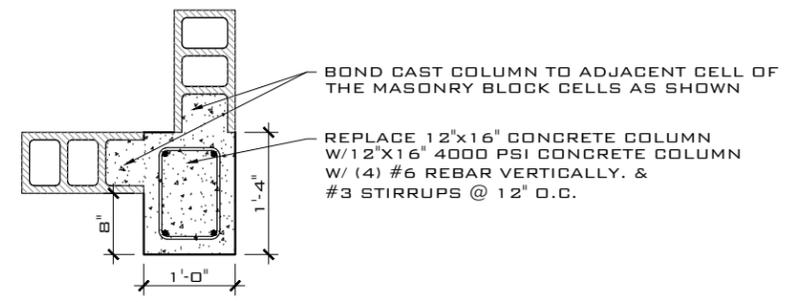
DETAIL 2: TYPICAL 12" WIDE COLUMN REPLACEMENT FOR LOCATIONS 6 TO 11 & 13 TO 17 (DIMENSION VARIES)
SCALE: NTS



PLAN VIEW FOR LOCATION 7
SCALE: NTS



PLAN VIEW FOR LOCATIONS 8, 9, 11 & 13 TO 17
SCALE: NTS



PLAN VIEW FOR LOCATION 10
SCALE: NTS

FIELD VERIFY ALL DIMENSIONS. MATCH NEW COLUMN WIDTH W/ EXISTING COLUMN WIDTH

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

SIGNATURE: _____

DATE: _____

SERGE MASHTAKOV
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:
	FINAL		



ARTIBUS DESIGN
3710 N. ROOSEVELT BLVD
KEY WEST, FL 33040
(305) 304-3512
WWW.ARTIBUSDESIGN.COM
CA # 30835

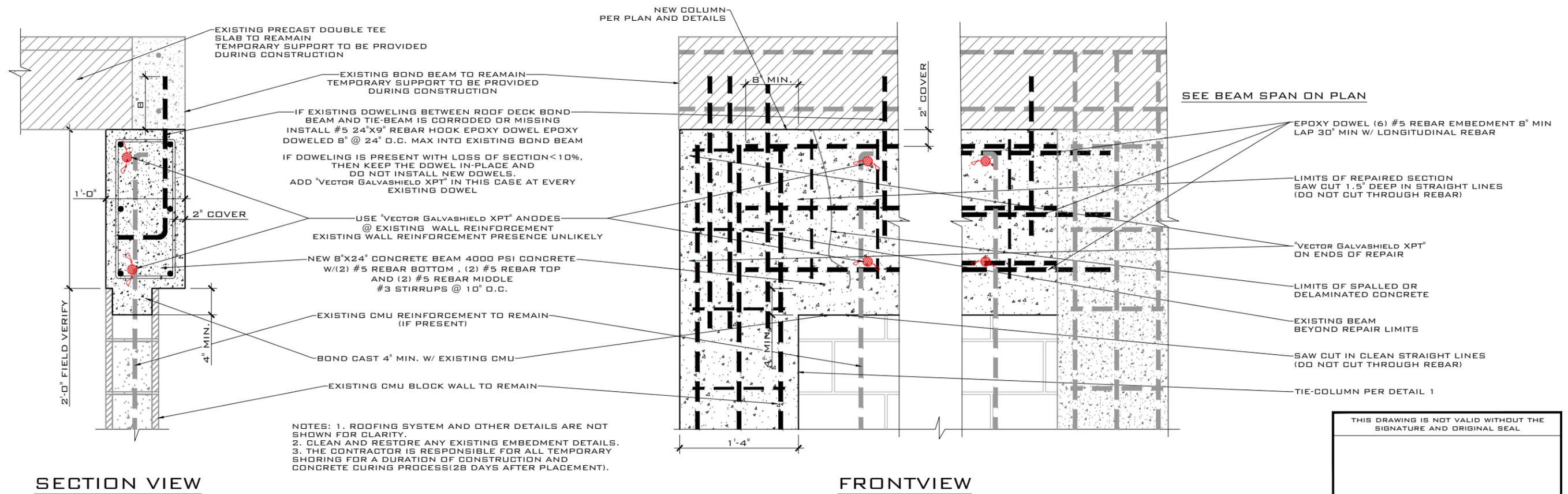
CLIENT: CITY OF KEY WEST

PROJECT: 201 WILLIAM ST
CONCRETE SPALLING REPAIRS

SITE: 201 WILLIAM ST
KEY WEST, FL 33040

TITLE: DETAILS

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/20/20	PRS	SAM
PROJECT NO:	DRAWING NO:	REVISION:	
1907-09	S-102	1	



NOTES: 1. ROOFING SYSTEM AND OTHER DETAILS ARE NOT SHOWN FOR CLARITY.
 2. CLEAN AND RESTORE ANY EXISTING EMBEDMENT DETAILS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING FOR A DURATION OF CONSTRUCTION AND CONCRETE CURING PROCESS(28 DAYS AFTER PLACEMENT).

SECTION VIEW

FRONTVIEW

DETAIL 3: CONCRETE TIE-BEAM REPLACEMENT DETAIL AT ROOF LEVEL

SCALE: NTS

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

SIGNATURE: _____
 DATE: _____

SERGE MASHTAKOV
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:
STATUS:	FINAL		

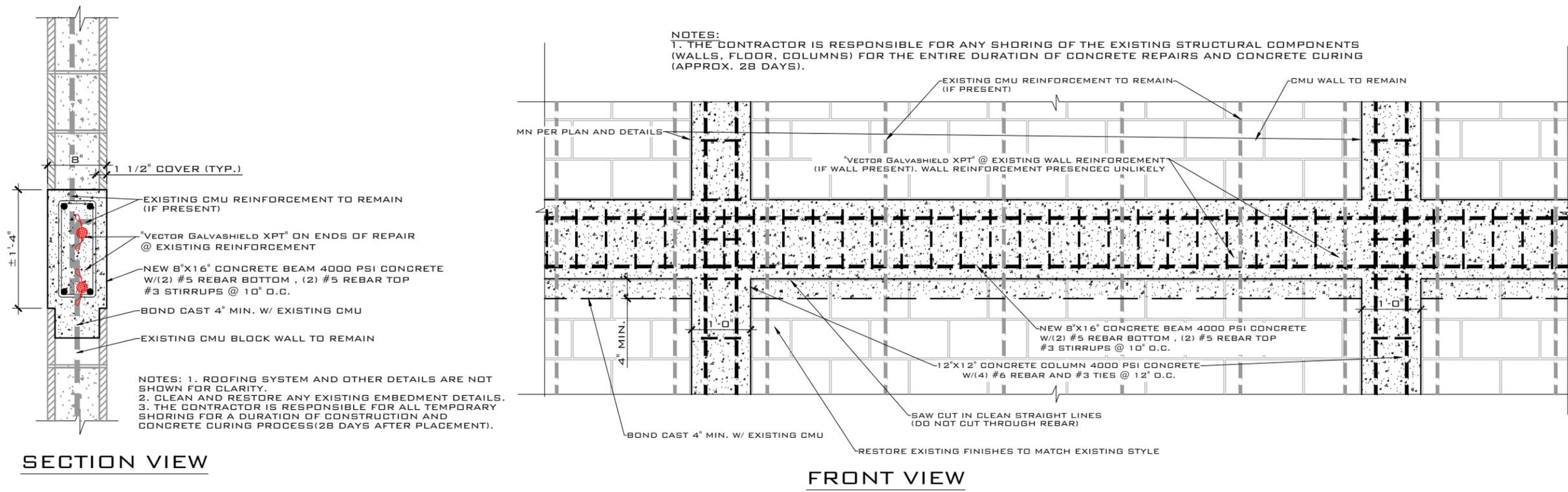
ARTIBUS DESIGN
 ENGINEERING AND PLANNING

ARTIBUS DESIGN
 3710 N. ROOSEVELT BLVD
 KEY WEST, FL 33040
 (305) 304-3512
 WWW.ARTIBUSDESIGN.COM
 CA # 30835

CLIENT: CITY OF KEY WEST
 PROJECT: 201 WILLIAM ST
 CONCRETE SPALLING REPAIRS

SITE: 201 WILLIAM ST
 KEY WEST, FL 33040
 TITLE: DETAILS

SCALE AT 1:1:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/20/20	PRS	SAM
PROJECT NO:	DRAWING NO:	REVISION:	
1907-09	S-103	1	



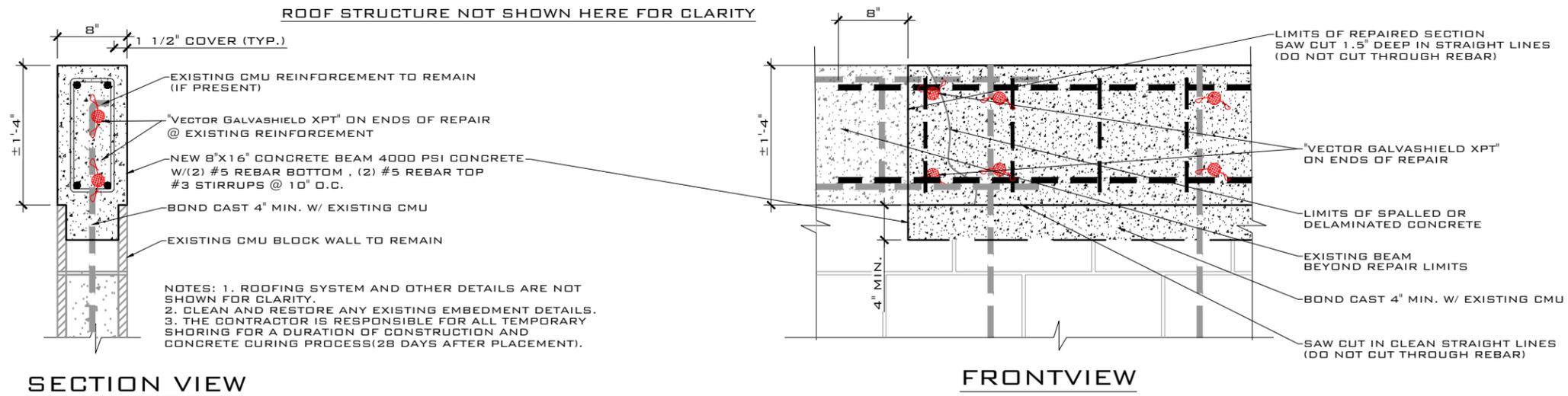
NOTES: 1. THE CONTRACTOR IS RESPONSIBLE FOR ANY SHORING OF THE EXISTING STRUCTURAL COMPONENTS (WALLS, FLOOR, COLUMNS) FOR THE ENTIRE DURATION OF CONCRETE REPAIRS AND CONCRETE CURING (APPROX. 28 DAYS).

SECTION VIEW

FRONT VIEW

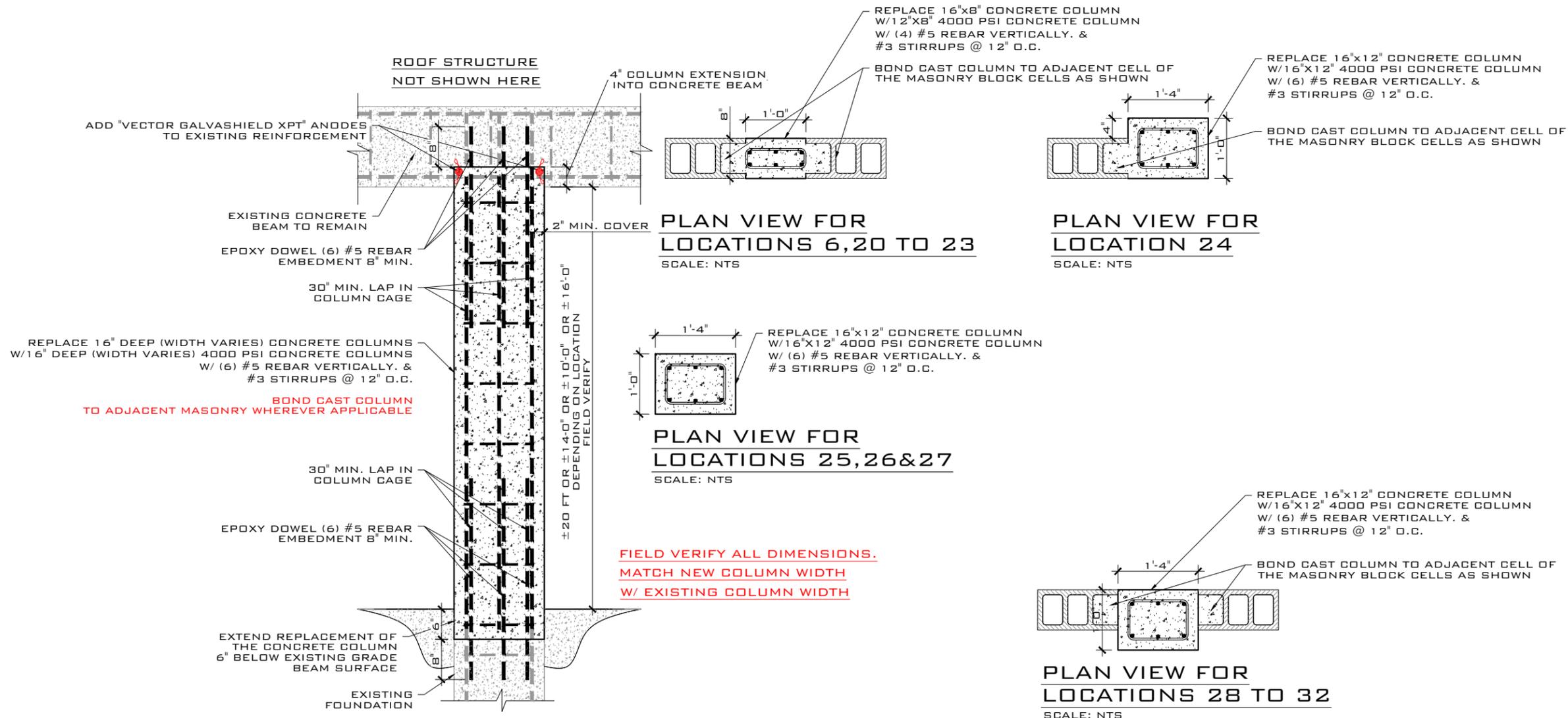
DETAIL 4: CONCRETE TIE-BEAM REPLACEMENT DETAIL AT FIRST FLOOR

SCALE: NTS



DETAIL 5: CONCRETE TIE-BEAM REPLACEMENT DETAIL AT ROOF LEVEL

SCALE: NTS



THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

SIGNATURE: _____

DATE: _____

SERGE MASHTAKOV
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:

STATUS: **FINAL**

ARTIBUS DESIGN
ENGINEERING AND PLANNING

ARTIBUS DESIGN
3710 N. ROOSEVELT BLVD
KEY WEST, FL 33040
(305) 304-3512
WWW.ARTIBUSDESIGN.COM
CA # 30835

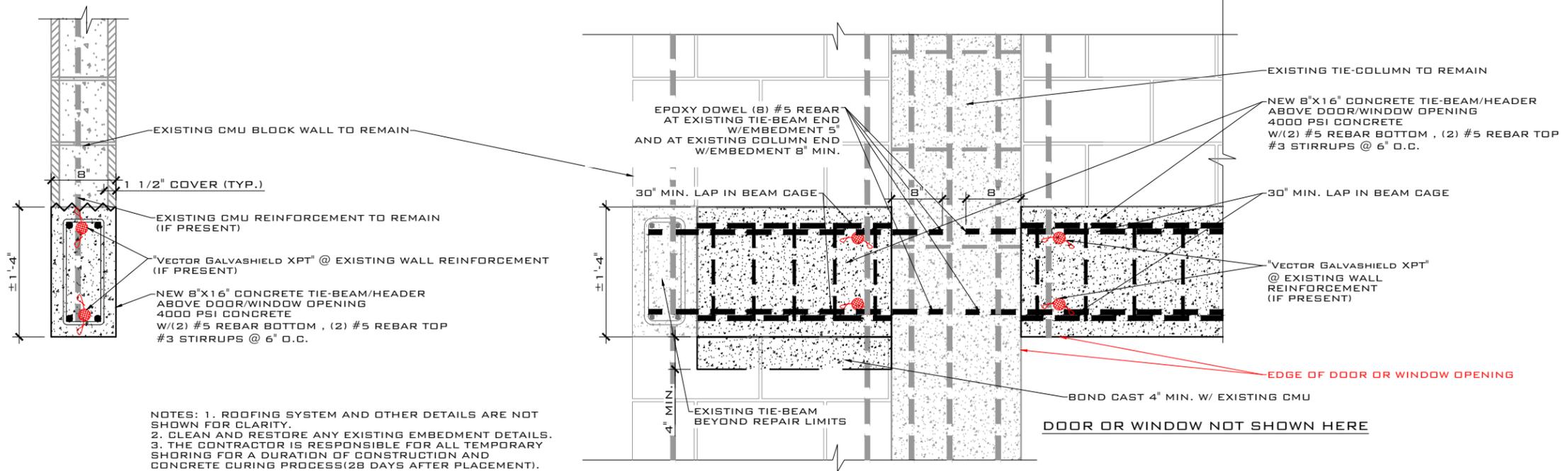
CLIENT: CITY OF KEY WEST

PROJECT: **201 WILLIAM ST
CONCRETE SPALLING REPAIRS**

SITE: 201 WILLIAM ST
KEY WEST, FL 33040

TITLE: **DETAILS**

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/20/20	PRS	SAM
PROJECT NO:	DRAWING NO:	REVISION:	
1907-09	S-103	1	



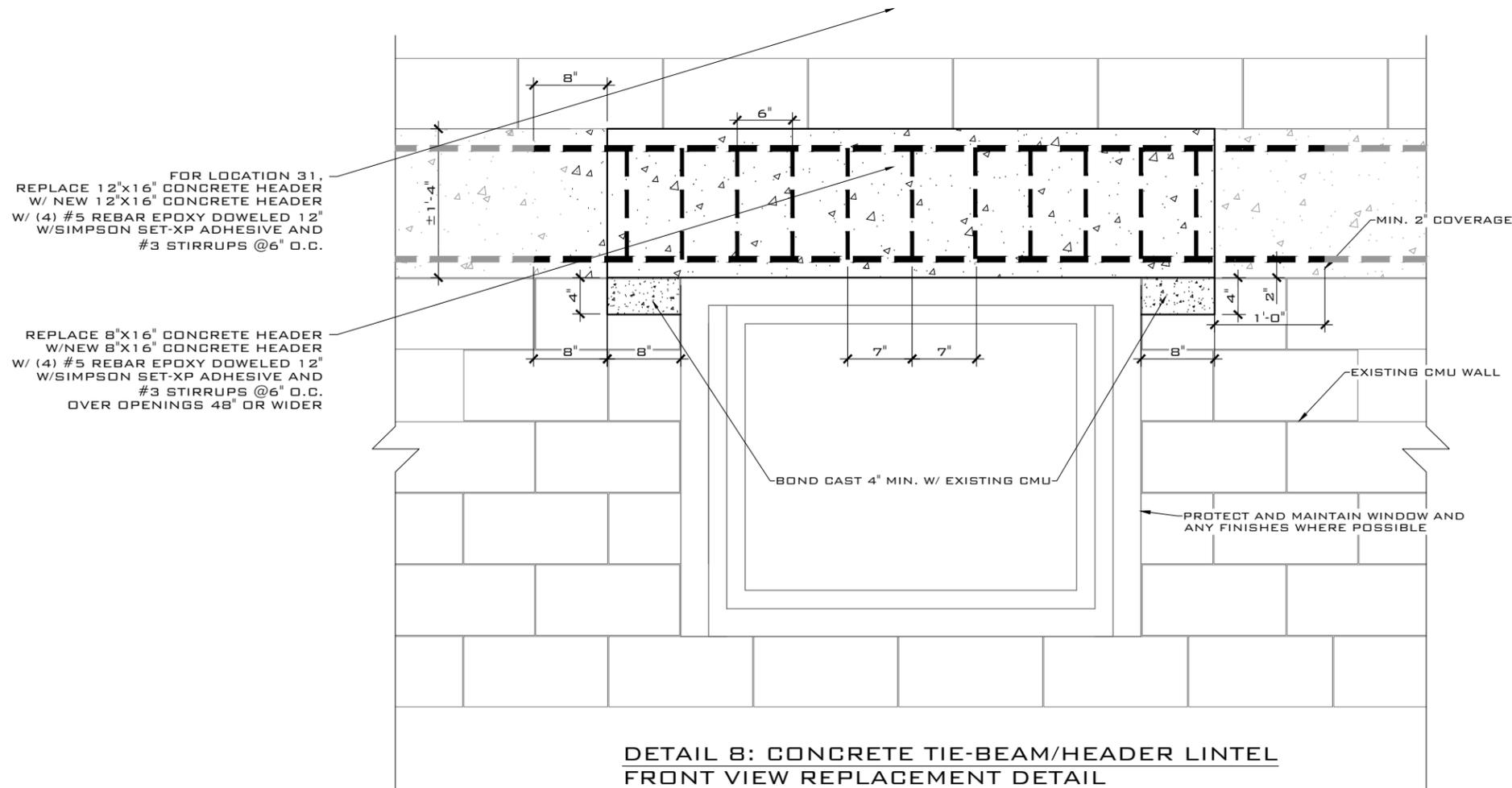
NOTES: 1. ROOFING SYSTEM AND OTHER DETAILS ARE NOT SHOWN FOR CLARITY.
 2. CLEAN AND RESTORE ANY EXISTING EMBEDMENT DETAILS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING FOR A DURATION OF CONSTRUCTION AND CONCRETE CURING PROCESS(28 DAYS AFTER PLACEMENT).

SECTION VIEW

FRONTVIEW

DETAIL 7: CONCRETE HEADER REPLACEMENT DETAIL BETWEEN LOCATION 33 AND LOCATION 34

SCALE: NTS



DETAIL 8: CONCRETE TIE-BEAM/HEADER LINTEL FRONT VIEW REPLACEMENT DETAIL

SCALE: NTS

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

SIGNATURE:

DATE:

SERGE MASHTAKOV
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:
STATUS:	FINAL		

ARTIBUS DESIGN
 ENGINEERING AND PLANNING

ARTIBUS DESIGN
 3710 N. ROOSEVELT BLVD
 KEY WEST, FL 33040
 (305) 304-3512
 WWW.ARTIBUSDESIGN.COM
 CA # 30835

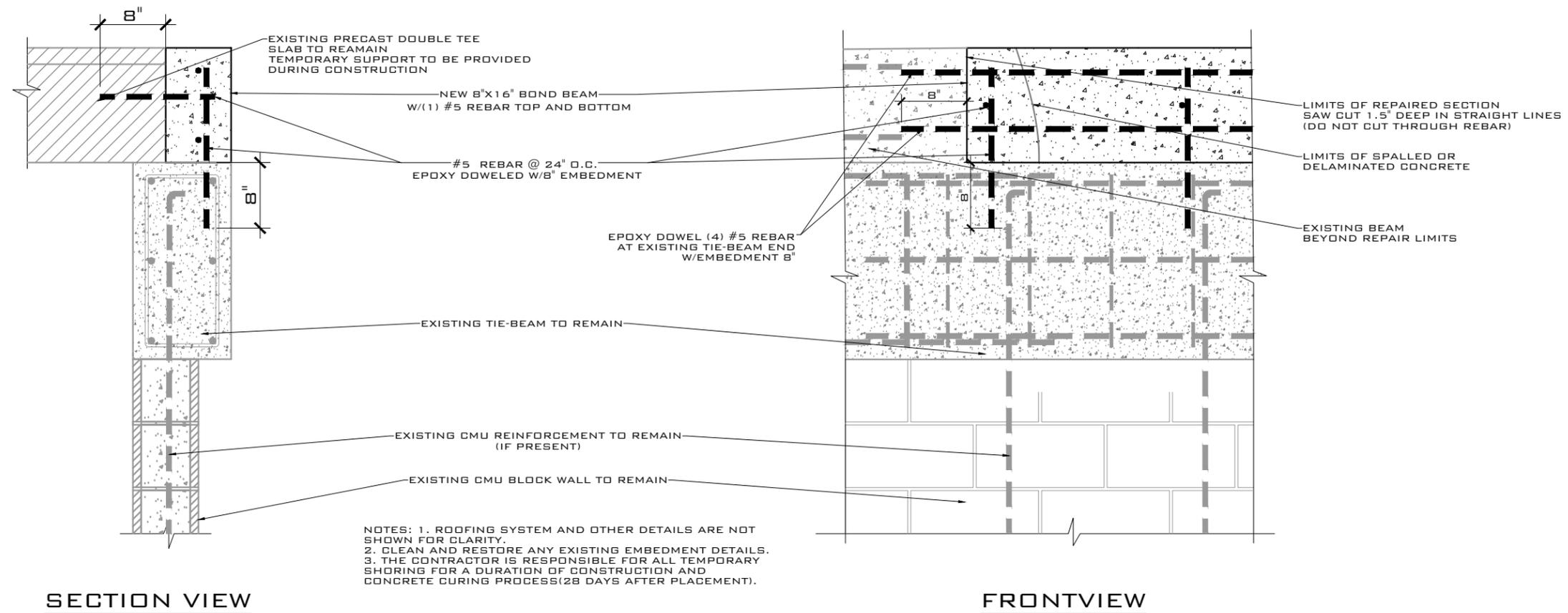
CLIENT: CITY OF KEY WEST

PROJECT: 201 WILLIAM ST
 CONCRETE SPALLING REPAIRS

SITE: 201 WILLIAM ST
 KEY WEST, FL 33040

TITLE: DETAILS

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/20/20	PRS	SAM
PROJECT NO:	DRAWING NO:	REVISION:	
1907-09	S-105	1	



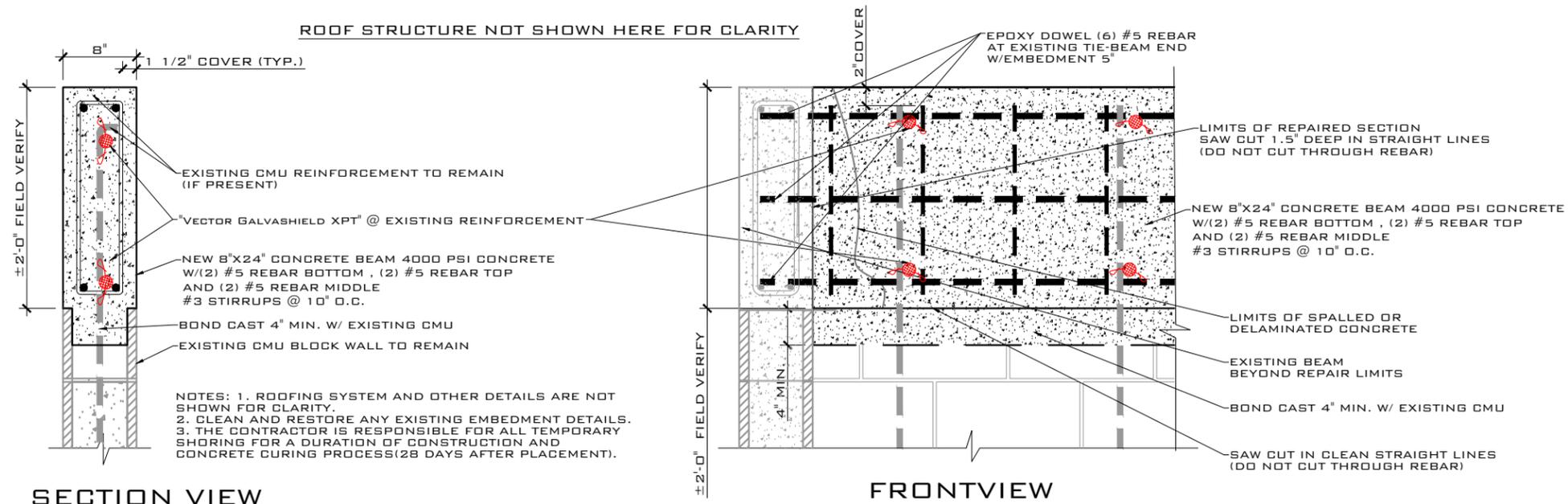
NOTES: 1. ROOFING SYSTEM AND OTHER DETAILS ARE NOT SHOWN FOR CLARITY.
 2. CLEAN AND RESTORE ANY EXISTING EMBEDMENT DETAILS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING FOR A DURATION OF CONSTRUCTION AND CONCRETE CURING PROCESS(28 DAYS AFTER PLACEMENT).

SECTION VIEW

FRONTVIEW

DETAIL 9: CONCRETE BOND BEAM REPLACEMENT DETAIL AT ROOF LEVEL

SCALE: NTS



NOTES: 1. ROOFING SYSTEM AND OTHER DETAILS ARE NOT SHOWN FOR CLARITY.
 2. CLEAN AND RESTORE ANY EXISTING EMBEDMENT DETAILS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING FOR A DURATION OF CONSTRUCTION AND CONCRETE CURING PROCESS(28 DAYS AFTER PLACEMENT).

SECTION VIEW

FRONTVIEW

DETAIL 10: CONCRETE TIE-BEAM REPLACEMENT DETAIL AT ROOF LEVEL

SCALE: NTS

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

SIGNATURE: _____

DATE: _____

SERGE MASHTAKOV
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:
STATUS:	FINAL		

ARTIBUS DESIGN
 ENGINEERING AND PLANNING

ARTIBUS DESIGN
 3710 N. ROOSEVELT BLVD
 KEY WEST, FL 33040
 (305) 304-3512
 WWW.ARTIBUSDESIGN.COM
 CA # 30835

CLIENT: CITY OF KEY WEST

PROJECT: 201 WILLIAM ST
 CONCRETE SPALLING REPAIRS

SITE: 201 WILLIAM ST
 KEY WEST, FL 33040

TITLE: DETAILS

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/20/20	PRS	SAM
PROJECT NO:	DRAWING NO:	REVISION:	
1907-09	S-106	1	



ARTIBUS DESIGN

ENGINEERING AND PLANNING



Figure 0. Site Map



Figure 1. Front Elevation near roundabout. Location 1: **Approximately 16 ft long new corner 16x12 concrete column. See detail 1/S101. Approximately 55 ft long new 12x24 horizontal tie-beam. See detail 3/S103.**

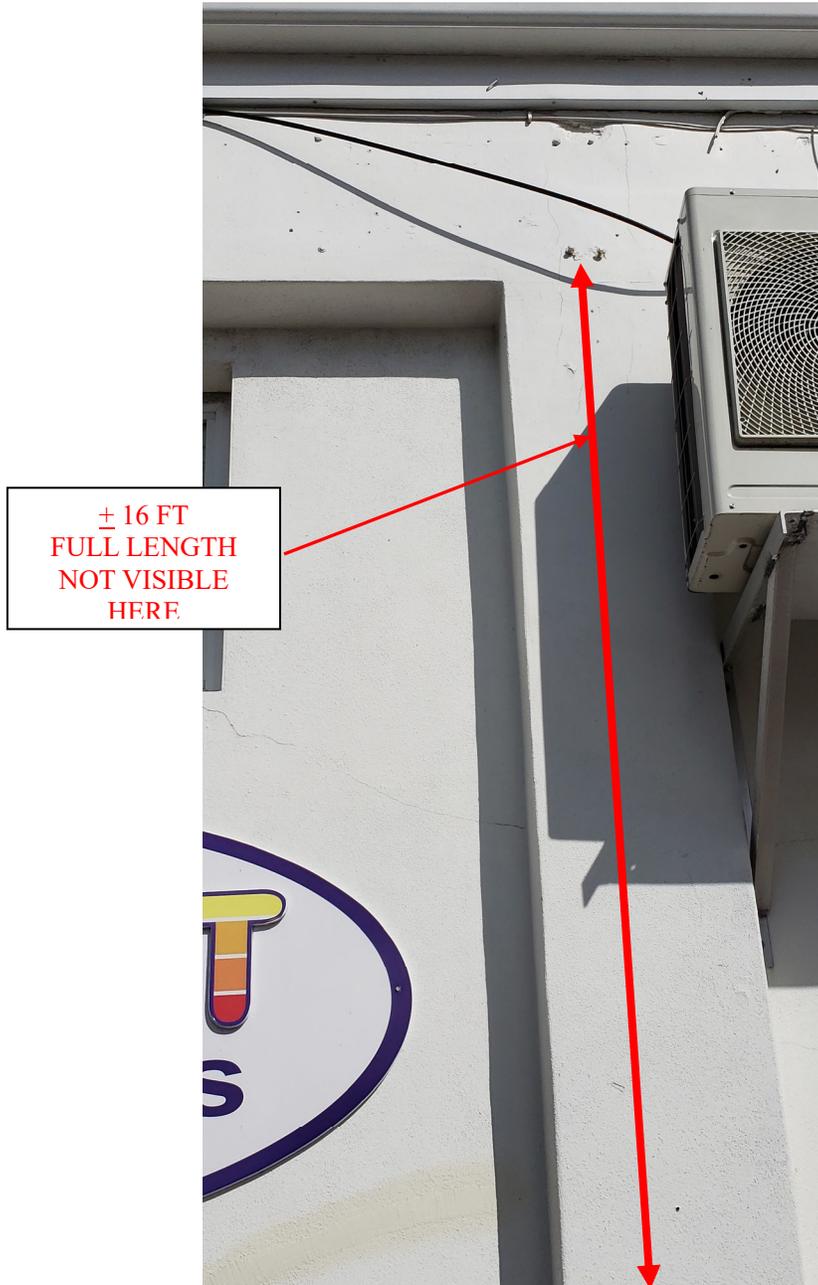


Figure 2. Front Elevation near roundabout. Location 2: **Approximately 16 ft long new 16x16 concrete column. See detail 1/S101.**



Figure 3. Front Elevation near roundabout. Location 3: **Approximately 16 ft long new 16x16 concrete column. See detail 1/S101.**

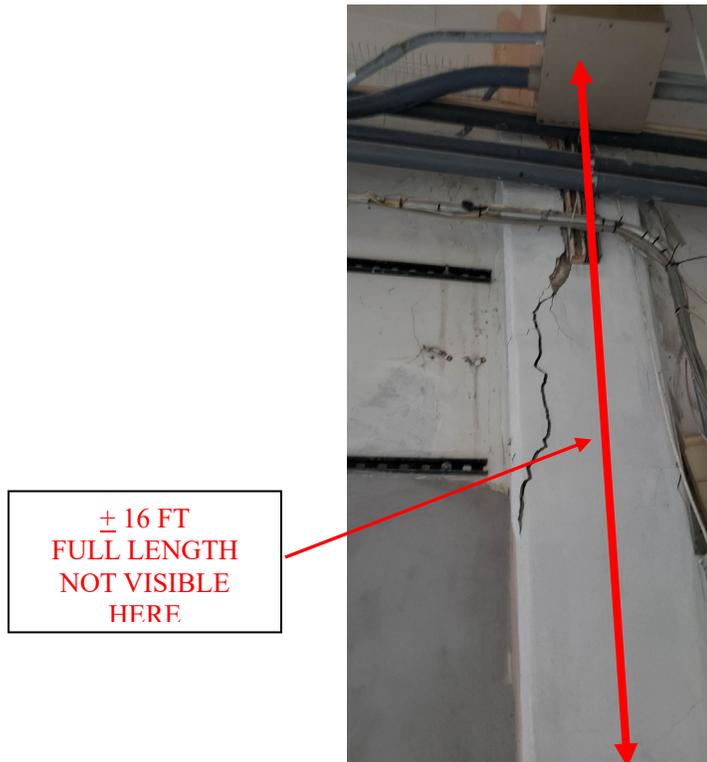


Figure 4. Interior of the Building. Location 4: **Approximately 16 ft long new 16x16 concrete column. See detail 1/S101.**



Figure 5. Location 5: **Approximately 55 ft long new 12x24 horizontal tie-beam. See detail 3/S103.**



ARTIBUS DESIGN

ENGINEERING AND PLANNING

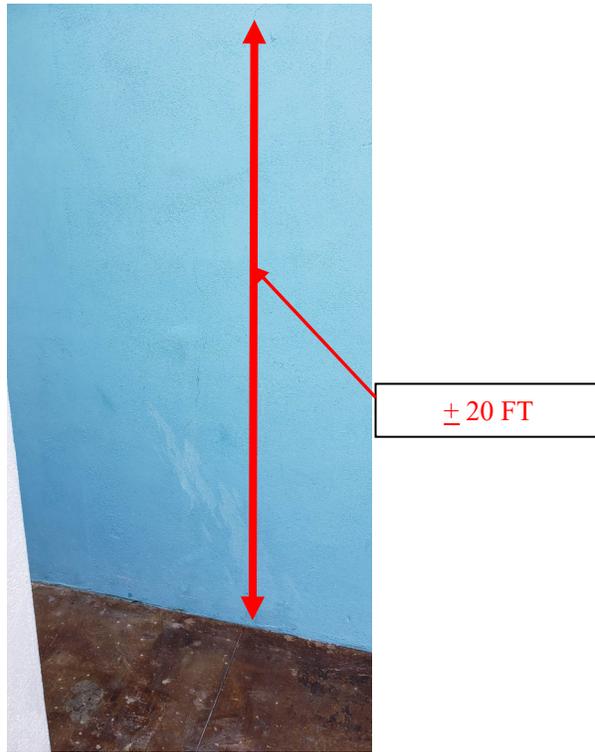


Figure 6. Location 6: **Approximately 20 ft long new 12x8 concrete column. See detail 6/S104.**



Figure 7A. Location 7-10. **Approximately 26 ft long new columns. See Figure 7-10 for column size and details.**



Figure 7. Location 7: **Approximately 26 ft long new 12x24 concrete column. See detail 2/S102.**



Figure 8. Location 8: **Approximately 26 ft long new 12x16 concrete column. See detail 2/S102.**



Figure 9. Location 9: **Approximately 26 ft long new 12x16 concrete column. See detail 2/S102.**



Figure 10. Location 10: **Approximately 26 ft long new 12x16 concrete column. See detail 2/S102.**

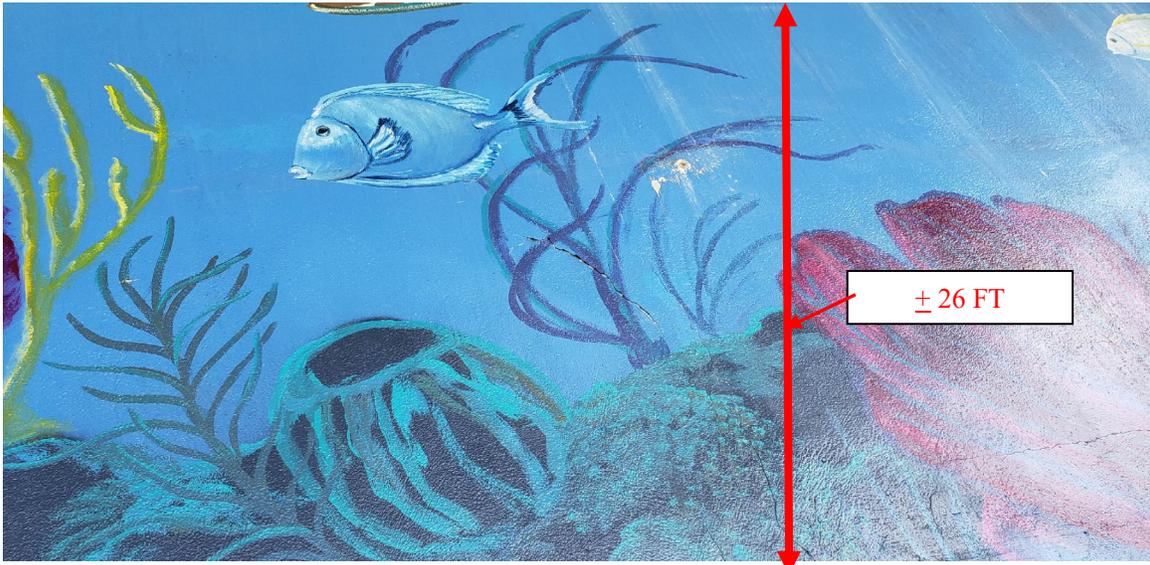


Figure 11. Location 11: **Approximately 26 ft long new 12x16 concrete column.**
See detail 2/S102.



Figure 12. Front Entrance. Location 12: **8x8 cell of the end CMU block to be fully grouted from header to ground.**



Figure 12A. Front Entrance. Location 12: **8 ft long new tie-beam/header**. See **typical detail 8/S105**.

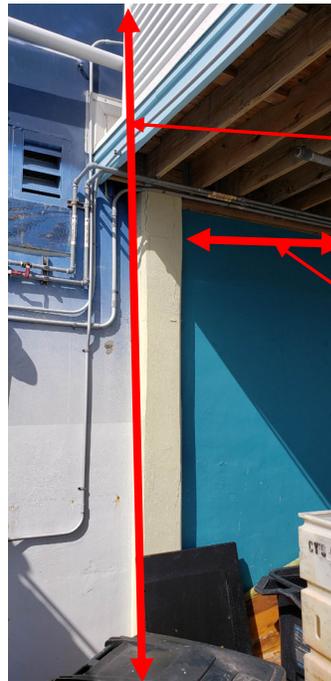


Figure 13A. Location 13-15: **Approximately 24 ft long new columns**. See **Figure 6-9** for column size and details. **Approximately 16 ft long new tie-beam**. See **detail 3/S103**.



ARTIBUS DESIGN

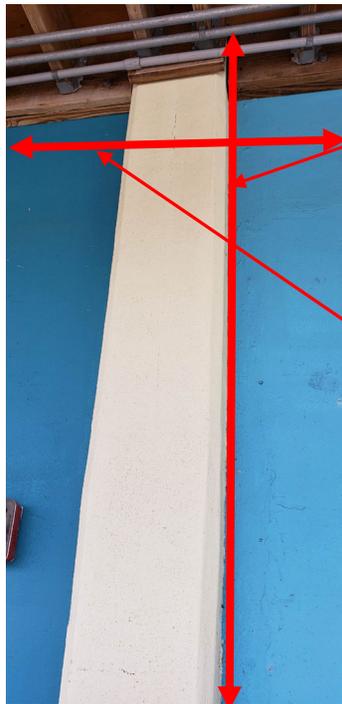
ENGINEERING AND PLANNING



± 24 FT
FULL LENGTH
NOT VISIBLE
HERE

± 35 FT
TIE-BEAM
FULL LENGTH
NOT VISIBLE
HERE

Figure 13. Location 13: **Approximately 24 ft long new 12x12 concrete column. See detail 2/S102. Approximately 35 ft long new tie-beam. See detail 4/S103.**



± 24 FT
FULL LENGTH
NOT VISIBLE
HERE

± 35 FT
TIE-BEAM
FULL LENGTH
NOT VISIBLE
HERE

Figure 14. Location 14: **Approximately 24 ft long new 12x12 concrete column. See detail 2/S102. Approximately 35 ft long new tie-beam. See detail 4/S103.**



ARTIBUS DESIGN

ENGINEERING AND PLANNING

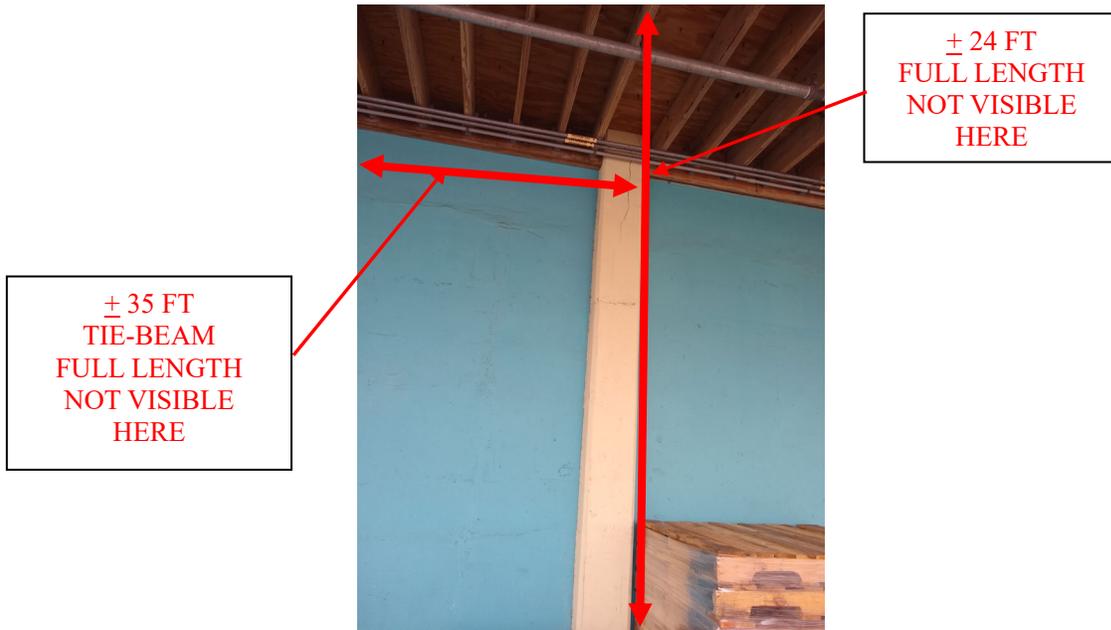


Figure 15. Location 15: **Approximately 24 ft long new 12x12 concrete column. See detail 2/S102. Approximately 35 ft long new tie-beam. See detail 4/S103.**



Figure 16. Location 16: **Approximately 24 ft long new 12x12 concrete column. See detail 2/S102.**

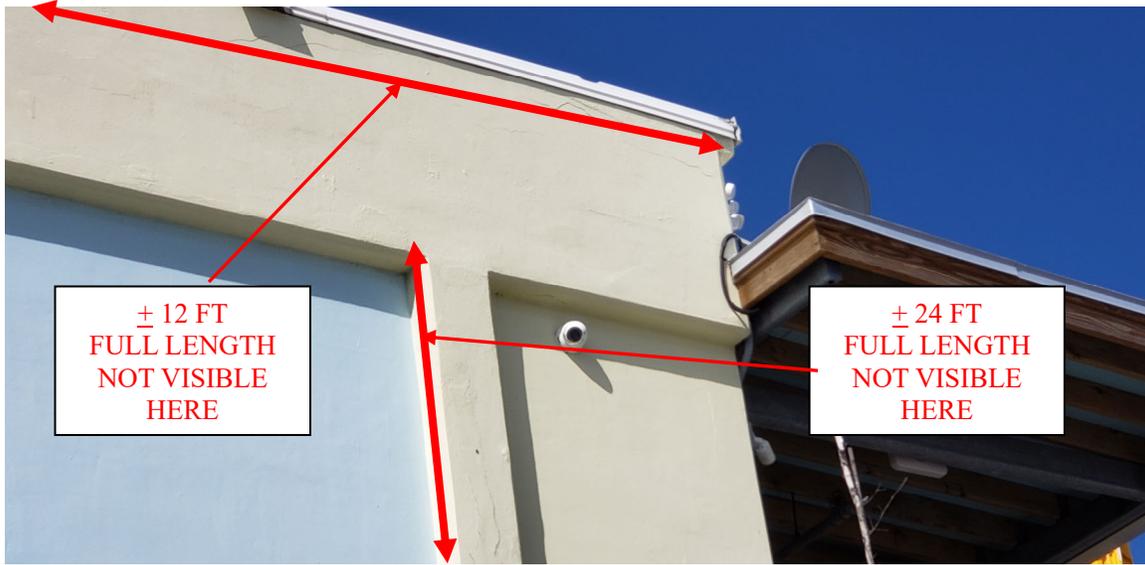


Figure 17. Location 17: **Approximately 24 ft long new 12x12 concrete column. See detail 2/S102. Approximately 35 ft long bond beam. See detail 9/S104.**

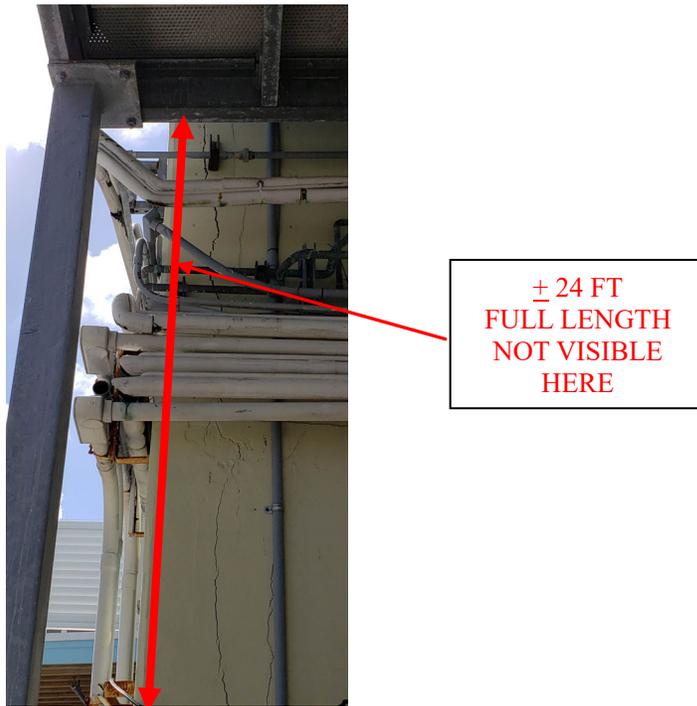


Figure 18. Location 18: **Approximately 24 ft long new 16x8 concrete column. See detail 1/S101.**

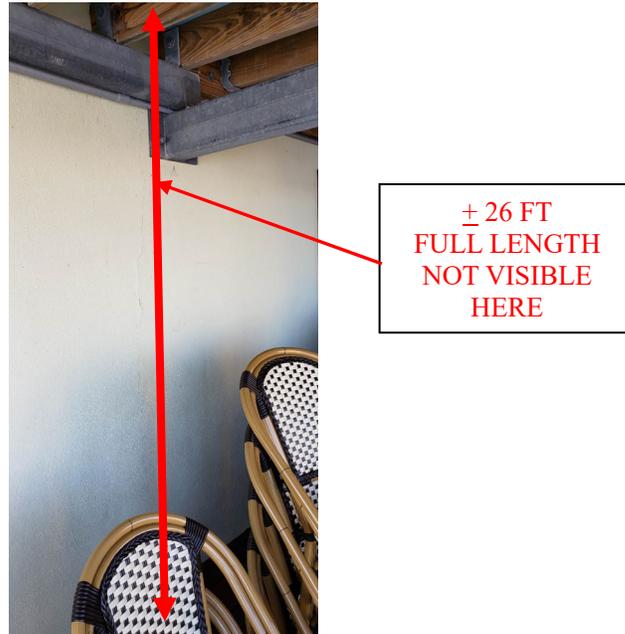


Figure 19. Location 19: **Approximately 26 ft long new 16x8 concrete column. See detail 1/S101.**

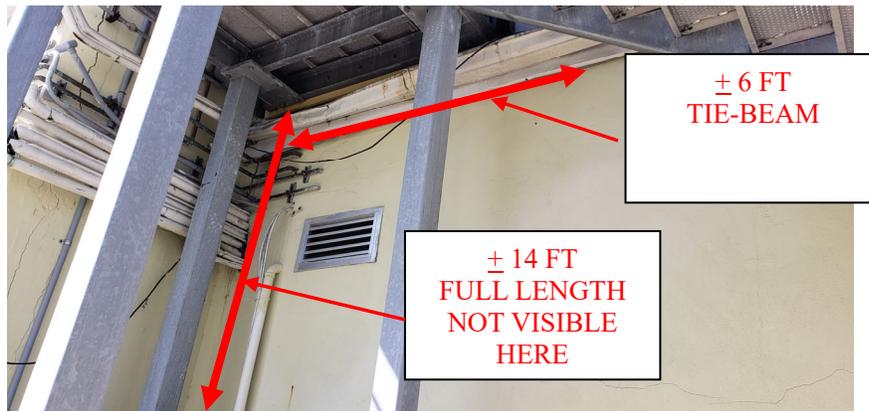


Figure 20. Location 20: **Approximately 14 ft long new 16x8 concrete column. See detail /S104. Approximately 6 ft long new 8x16 horizontal tie-beam. See detail 5/S104.**

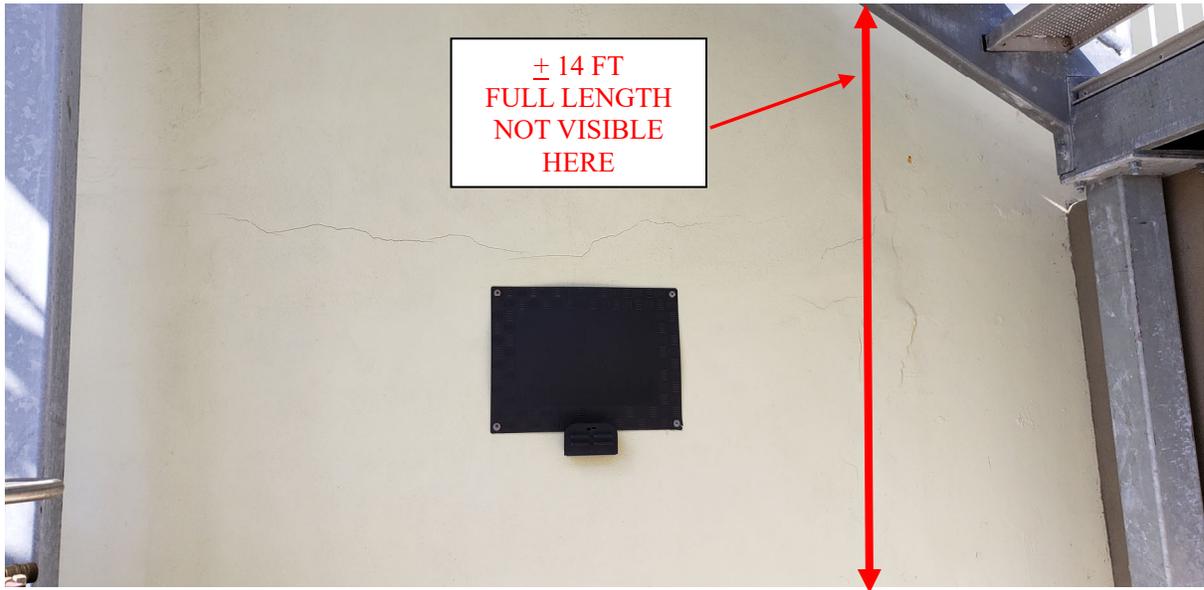


Figure 21. Location 21: **Approximately 14 ft long new 16x8 concrete column. See detail /S104.**



Figure 21A. Between Location 21 and Location 22. **Approximately 12 ft long new 8x16 horizontal tie-beam. See detail 5/S104.**



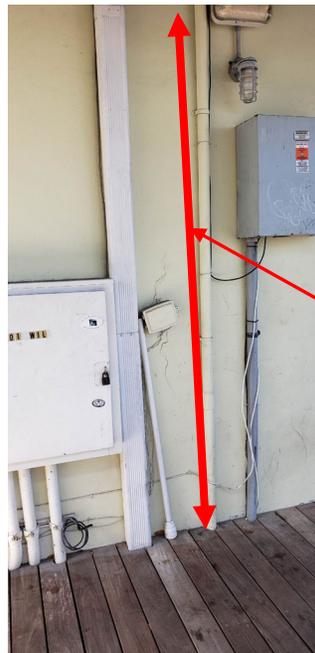
ARTIBUS DESIGN

ENGINEERING AND PLANNING



± 14 FT
FULL LENGTH
NOT VISIBLE
HERE

Figure 22. Location 22: **Approximately 14 ft long new 16x8 concrete column. See detail 6/S104.**



± 14 FT
FULL LENGTH
NOT VISIBLE
HERE

Figure 23. Location 23: **Approximately 14 ft long new 16x8 concrete column. See detail 6/S104.**



Figure 24. Location 24: **Approximately 10 ft long new 16x12 concrete column.**
See detail 6/S104.



Figure 25. Location 25: **Approximately 10 ft long new 16x12 concrete column.**
See detail 6/S104.



ARTIBUS DESIGN

ENGINEERING AND PLANNING

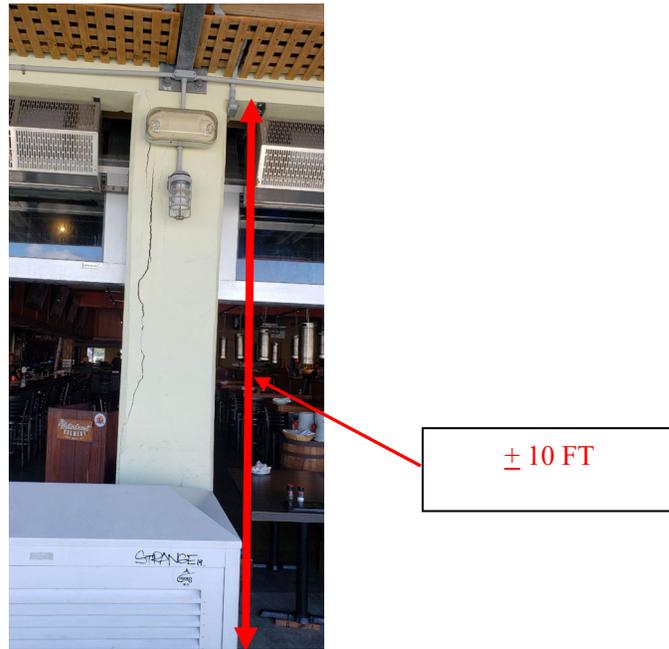


Figure 26. Location 26: **Approximately 10 ft long new 16x12 concrete column.**
See detail 6/S104.

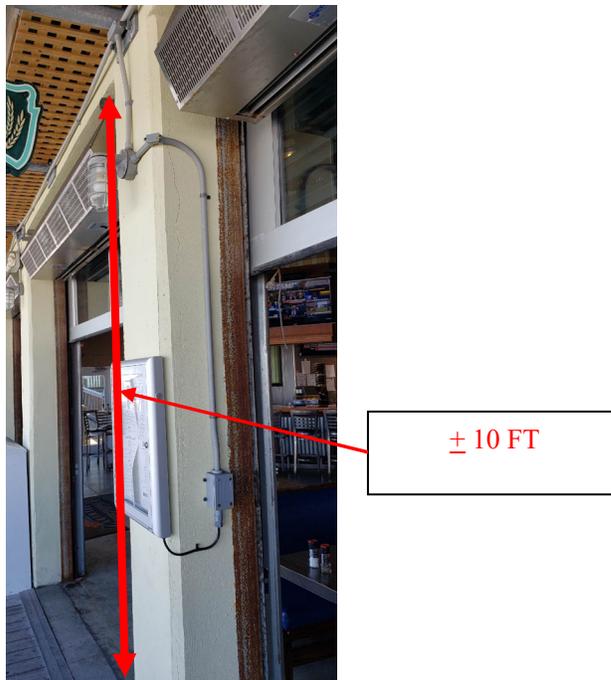


Figure 27. Location 27: **Approximately 10 ft long new 16x12 concrete column.**
See detail 6/S104.



Figure 28. Coffee Shop. Location 28: **Approximately 14 ft long new 16x12 concrete column. See detail 6/S104.**



Figure 28A. Surf Shop. Between Location 28 and 29: **Approximately 8 ft long new 8x16 horizontal tie-beam. See detail 5/S104 - tie-beam / header replacement detail.**

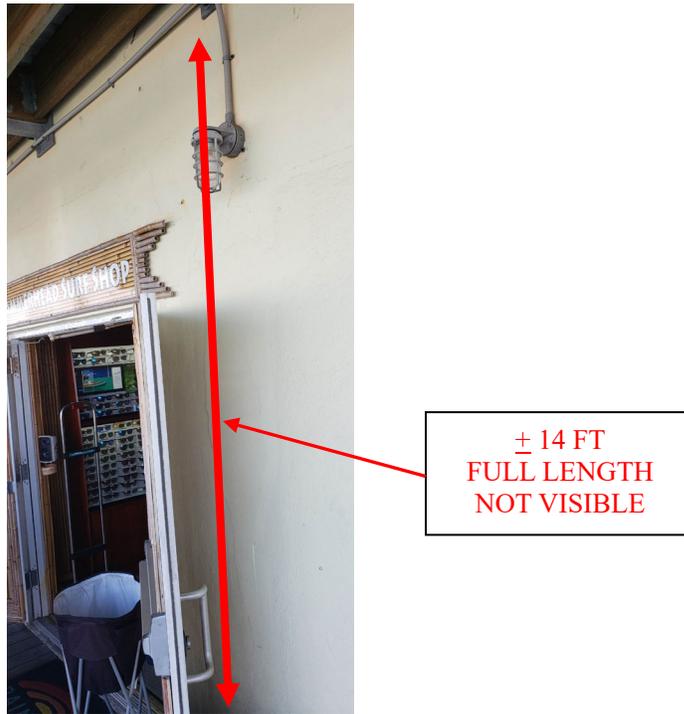


Figure 29. Location 29. **Approximately 14 ft long new 16x12 concrete column.**
See detail 6/S104.

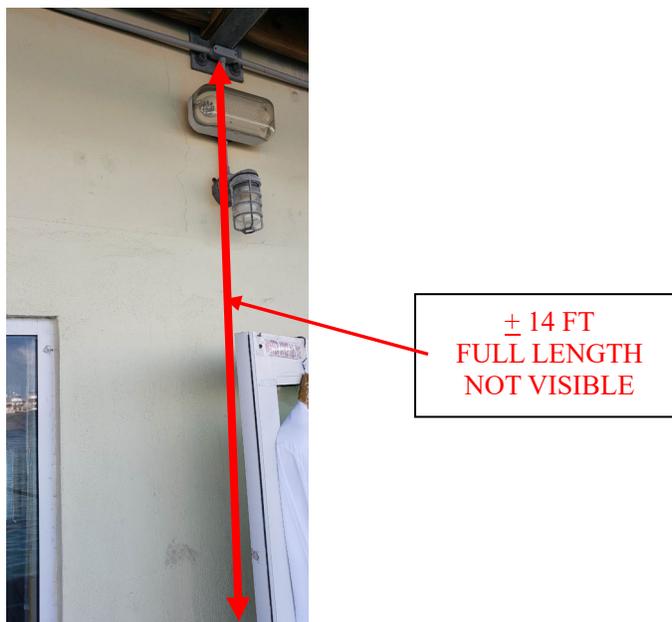


Figure 30. Location 30. **Approximately 14 ft long new 16x12 concrete column.**
See detail 6/S104.

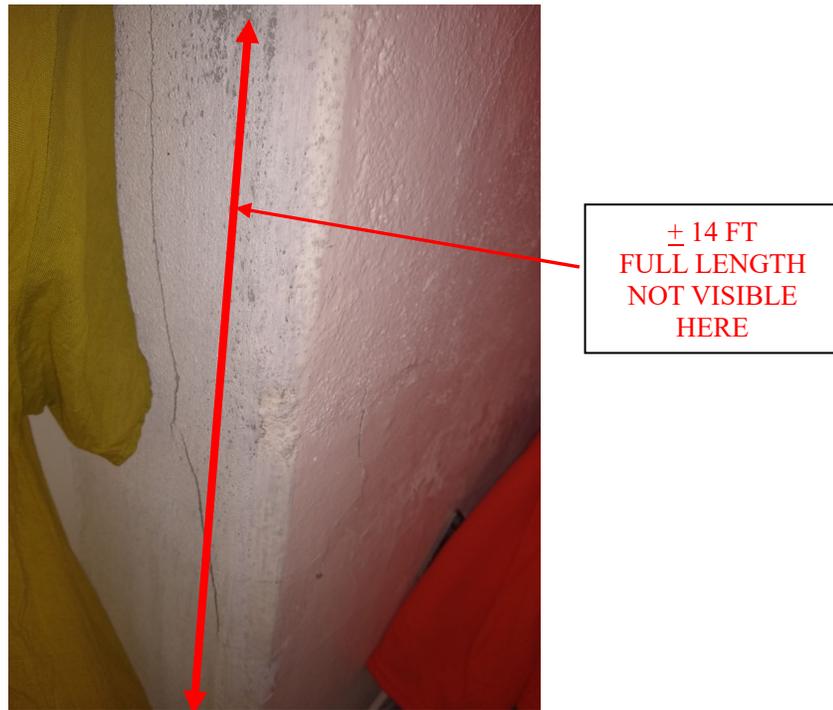


Figure 31. Location 31. **Approximately 14 ft long new 16x12 concrete column.** See detail 6/S104.

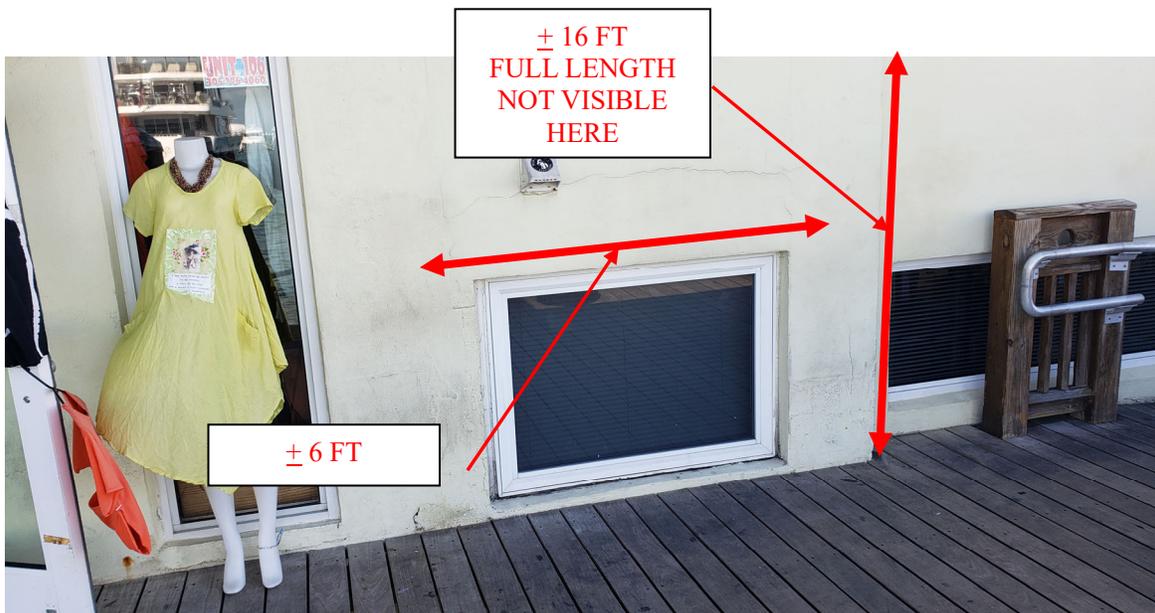


Figure 32. Location 32: **Approximately 16 ft long new 16x12 concrete column.** See detail 6/S104. **Approximately 6 ft long new 12x16 horizontal tie-beam/header.** See detail 8/S105 - tie-beam /header replacement detail.

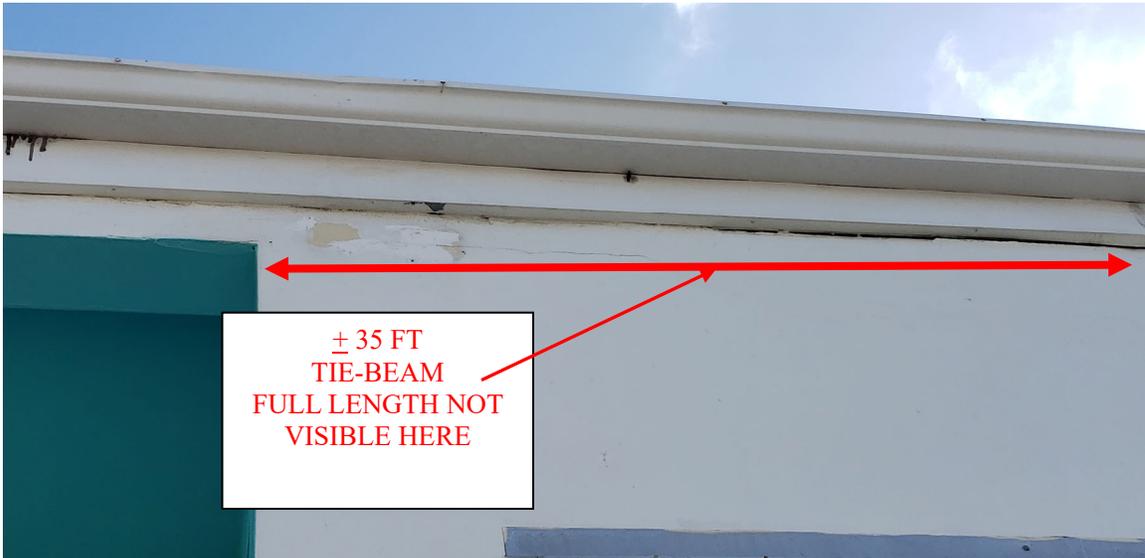


Figure 33. Location 33: **Approximately 35 ft long new 8x24 horizontal tie-beam at roof level. See detail 10/S106.**



Figure 32A. Between Location 33 and Location 34: **Approximately 35 ft long continuous new 8x16 horizontal tie-beam/header above opening. See detail 7/S105.**



Figure 34. Location 34: **Approximately 35 ft long continuous new 8x16 horizontal tie-beam/header above opening. See detail 7/S105.**

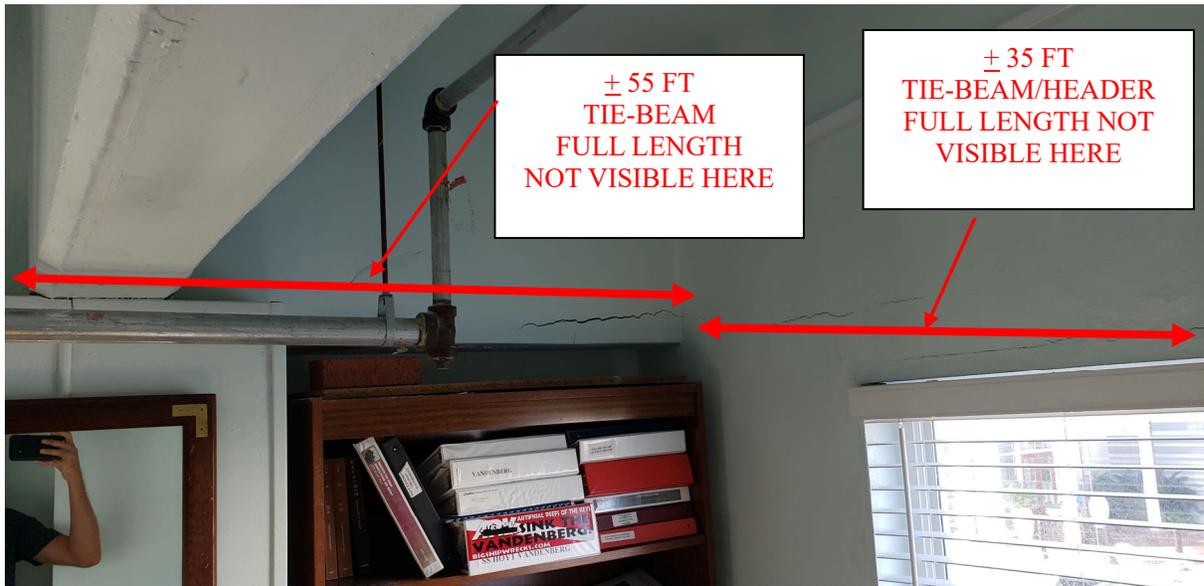


Figure 34A. Interior corner view. Location 34: **Approximately 55 ft long new 12x24 horizontal tie-beam. See detail 3/S103. Approximately 35 ft long new 8x24 horizontal tie-beam/header. See detail 10/S106.**