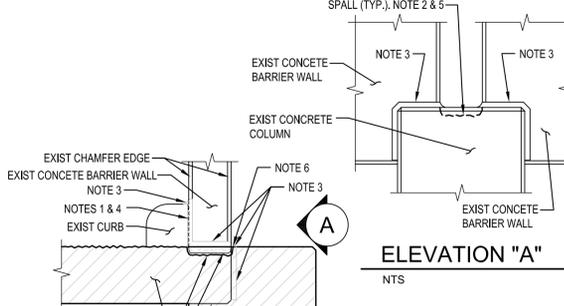


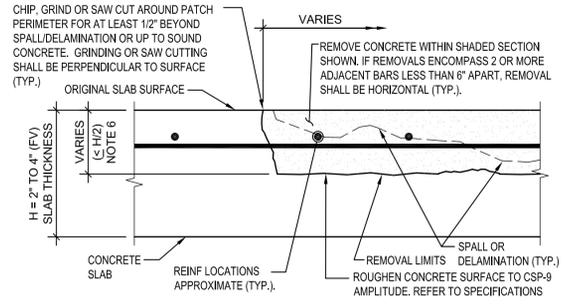
- NOTES:**
- PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
  - REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" SPECIFICATIONS FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
  - PROVIDE 1/2" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
  - WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
  - NEW PATCH SHALL MATCH EXISTING FINISH.
  - IF DEPTH OF CONCRETE REMOVAL EXCEEDS H/2, CONTACT ENGINEER PRIOR TO PERFORMING FULL-DEPTH REPAIR.

**3.1 OVERHEAD SLAB REPAIR**  
NTS



- NOTES:**
- ROUT VERTICAL JOINT BETWEEN CURB AND BARRIER WALL. REFER TO T.1 - 7.1.
  - CLEAR DEBRIS FROM SPALL LOCATION AND REPAIR SPALL AS PER T.1 - 2.3.
  - INSTALL COVE SEALANT PER T.1 - 7.5 AT COLUMN/WALL INTERFACE.
  - INSTALL JOINT SEALANT PER T.1 - 7.1.
  - ROUGHEN CONCRETE SURFACE TO CSP-9 AMPLITUDE. REFER TO SPECIFICATIONS.
  - EPOXY INJECT CRACK ON TOP COLUMN SURFACE.

**2.7 RAMP SLAB/COLUMN PATCH AND SEAL**  
NTS



- CAUTION:** SLAB MAY HAVE EMBEDDED ELECTRICAL CONDUITS. VERIFY LOCATION PRIOR TO COMMENCEMENT OF WORK.
- NOTES:**
- PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
  - REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
  - PROVIDE 1/2" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
  - WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
  - NEW PATCH SHALL MATCH EXISTING FINISH.
  - IF DEPTH OF CONCRETE REMOVAL EXCEEDS H/2, CONTACT ENGINEER PRIOR TO PERFORMING FULL-DEPTH REPAIR.

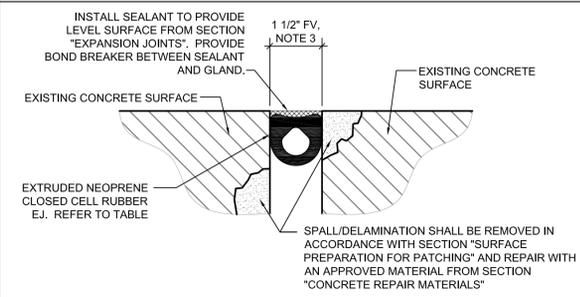
**2.3 CONCRETE FLOOR REPAIR**  
NTS



EXISTING SPALL/DELAMINATION OF STRUCTURAL SLAB CONCRETE, NOTE 2  
EXPOSED TOP SURFACE OF STRUCTURAL CONCRETE FOUNDATION  
EXISTING SPALL/DELAMINATION OF TOP LEVELING CONCRETE TOP, NOTE 1

- NOTES:**
- REMOVE SPALLED OR DELAMINATED NON STRUCTURAL TOP LEVELING CONCRETE. PREPARE EDGE OF NON-SPALLED AND NON-DELAMINATED TOPPING CONCRETE AS PER SPECIFICATIONS. REFER TO SECTION 01 50 "TASK ITEMS" - TASK ITEM 2.1.
  - SPALLING OR DELAMINATION OF STRUCTURAL ELEMENTS SHALL BE REPAIRED AS PER T.1 - 2.3

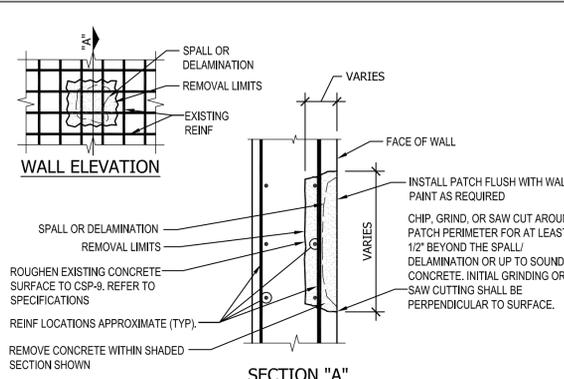
**2.1 CONCRETE SURFACE REPAIR**  
NTS



- NOTES:**
- REMOVE EXISTING SEALANT, BACKER ROD, AND OR GLAND.
  - ENSURE BLOCKOUT DIMENSIONS MEET REQUIREMENT OF EXPANSION JOINT MANUFACTURER.
  - CONTRACTOR SHALL, WITH MANUFACTURER, VERIFY FIELD INSTALLATION WIDTH BASED ON TEMPERATURE CONDITIONS.

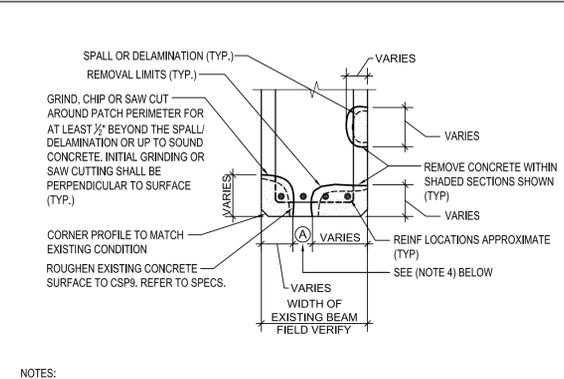
LEVEL	SYSTEM TYPE	QUANTITY	LENGTH (FT)
P1	WBA - WABO INVERSEAL - IV - 150	1	250'

**6.1A TYPICAL - EJ REPLACEMENT - EXTRUDED CLOSED CELL WITH CONCRETE BLOCKOUT**  
NTS



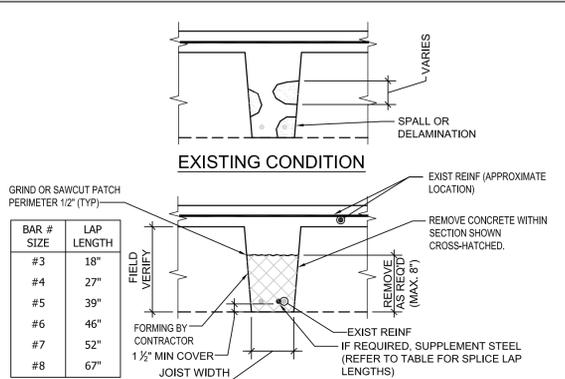
- NOTES:**
- PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
  - REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
  - PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
  - WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
  - NEW PATCH SHALL MATCH EXISTING FINISH.

**4.1 CONCRETE WALL REPAIR**  
1'-0" = 1'-0"



- NOTES:**
- PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
  - REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
  - PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
  - WHERE DIMENSION "A" SHOWN IN DETAIL IS 4" OR LESS, THEN REPAIR ENTIRE WIDTH OF BEAM.
  - WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.

**3.5 CONCRETE BEAM REPAIR**  
NTS



- NOTES:**
- SPALLS/DELAMINATIONS ARE SHOWN FOR ILLUSTRATION PURPOSES.
  - PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
  - CLEAN AND EPOXY COAT ALL EXPOSED REINFORCEMENT. PROVIDE 1/2" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
  - REINFORCEMENT EXPOSED DURING SURFACE PREPARATION THAT HAS LOST MORE THAN 10% OF ORIGINAL CROSS-SECTION DUE TO CORROSION SHALL BE SUPPLEMENTED WITH A SAME BAR SIZE UNLESS A DIFFERENT SIZE IS APPROVED BY ENGINEER.

**PAY UNIT (S.F.)**  
LENGTH IN THE DIRECTION OF JOIST X VERTICAL DIMENSION (MAX. 8').

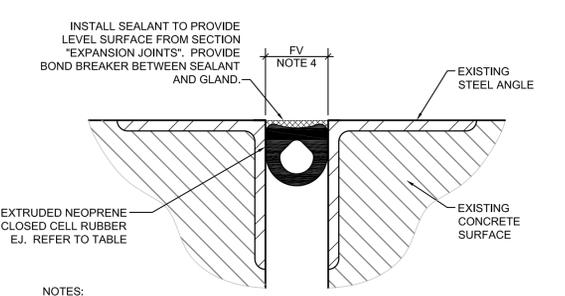
**3.4 CONCRETE JOIST REPAIR**  
NTS



- NOTES:**
- REMOVE EXISTING SEALANT, BACKER ROD, AND OR GLAND.
  - REMOVE AND SALVAGE EXISTING PAVERS. REMOVE EXISTING GROUT AND CEMENTITIOUS SUB-GRADE WITHIN 1'-0" OF THE EJ, ON THE SIDE WITH PAVERS. REINSTALL BRICK PAVERS ON TOP OF NEW CONCRETE REPAIR MATERIAL AFTER INSTALLING WATERPROOF.
  - CLEAN VERTICAL BLOCKOUT STEEL TO BARE METAL SSPC(10) PRIOR TO JOINT INSTALLATION. COAT STEEL ANGLE ON SURFACES NOT RECEIVING NEW RUBBER EJ USING COLD GALVANIZING REPAIR COMPOUND. REPLACE STEEL ANGLE WHERE REQUIRED DUE TO EXCESSIVE CORROSION. REFER TO EJ ANGLE REPLACEMENT DETAIL 10.7/S2.02.
  - ENSURE BLOCKOUT DIMENSIONS MEET REQUIREMENT OF EXPANSION JOINT MANUFACTURER.
  - CONTRACTOR SHALL, WITH MANUFACTURER, VERIFY FIELD INSTALLATION WIDTH BASED ON TEMPERATURE CONDITIONS.

LEVEL	SYSTEM TYPE	QUANTITY	LENGTH (FT)	LOCATION
P	WBA - WABO INVERSEAL - IV - 150	1	30'	VESTIBULE DRIVE WAY

**6.1C TYPICAL - EJ REPLACEMENT - EXTRUDED CLOSED CELL WITH METAL BLOCKOUT**  
NTS



- NOTES:**
- REMOVE EXISTING SEALANT, BACKER ROD, AND OR GLAND.
  - CLEAN VERTICAL BLOCKOUT STEEL TO BARE METAL SSPC(10) PRIOR TO JOINT INSTALLATION. COAT STEEL ANGLE ON SURFACES NOT RECEIVING NEW RUBBER EXPANSION JOINT USING COLD GALVANIZING REPAIR COMPOUND.
  - ENSURE BLOCKOUT DIMENSIONS MEET REQUIREMENT OF EXPANSION JOINT MANUFACTURER.
  - CONTRACTOR SHALL, WITH MANUFACTURER, VERIFY FIELD INSTALLATION WIDTH BASED ON TEMPERATURE CONDITIONS.

LEVEL	SYSTEM TYPE	QUANTITY	LENGTH (FT)	LOCATION
P	WBA - WABO INVERSEAL - IV - 150	2	30'	ENTRANCE DRIVE WAY
P	WBA - WABO INVERSEAL - IV - 150	5	15'	EXIT DRIVE WAY

**6.1B TYPICAL - EJ REPLACEMENT - EXTRUDED CLOSED CELL WITH METAL BLOCKOUT**  
NTS

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MARK ERIC WILLIAMS  
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LICENSED PROFESSIONAL ENGINEER  
STATE OF TEXAS  
11/13/2012

**CITY OF HOUSTON**  
BUILDING SERVICES DEPARTMENT

**CITY HALL ANNEX PARKING GARAGE REPAIRS PHASE II**

FILE NO.	WPM PROJECT NO.
WBS No. D-000113-0010-4	D03.10108.02
DRAWING SCALE	DETAILS
VERT. AS SHOWN HORIZ. AS SHOWN	DRAWING TITLE
CITY OF HOUSTON PM	<b>S2.01</b>
JAMES REDDINGTON, JR.	
SHEET NO. 8 OF 9	SHEET NO.