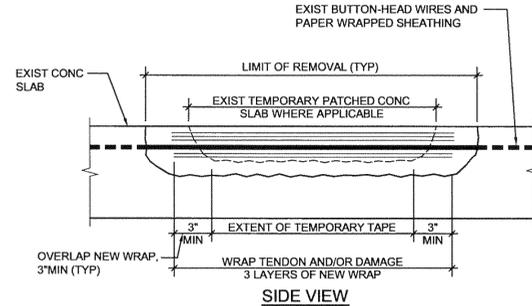


NOTES:
1. ACTUAL LIMITS SHALL BE DETERMINED BY THE ENGINEER ON A CASE-BY-CASE BASIS.

9.1B CONCRETE REMOVAL AREA AT PT ANCHORAGES

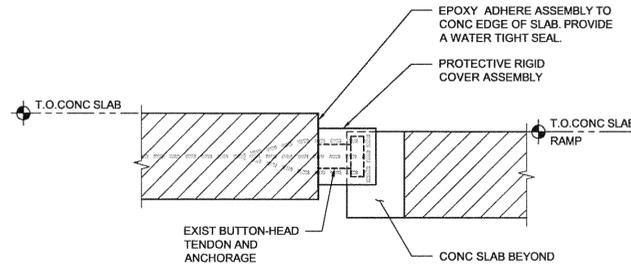
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NOTES:
1. REMOVE EXISTING CONCRETE TO EXPOSE TEMPORARY TAPE-WRAPPED BUTTON-HEAD WIRE TENDON.
2. REMOVE TAPE AND PAPER WRAPPED SHEATHING AND CLEAN TENDON TO GRAY STEEL. REPORT ANY BROKEN OR SEVERELY CORRODED WIRES TO ENGINEER.
3. APPLY NON-CORROSIVE GREASE TO EXPOSE TENDON.
4. COVER EXPOSED TENDON WITH PLASTIC SHEATHING. PROVIDE OVERLAP AS SHOWN.
5. COVER SHEATHING SPLICE WITH WATERPROOF TAPE AND SEAL ENDS TO EXISTING SHEATHING.
6. SEE SPECIFICATION FOR APPROVED MATERIALS.
7. THIS REPAIR ITEM IS INCLUDED IN REPAIRS OF ALL POST-TENSIONED CONCRETE MEMBERS.
8. PLACE SPECIFIED REPAIR MATERIAL OVER EXPOSED TENDON TO PROVIDE A MINIMUM COVER OF 3/4". REFER TO DETAIL 9.1C FOR CONCRETE PATCH REPAIR IF CONCRETE COVER CANNOT BE ACHIEVED ON A FLAT SURFACE.

9.1A TYPICAL DETAIL - CLEAN AND COAT POST-TENSIONED TENDONS AT EXISTING CONCRETE PATCH

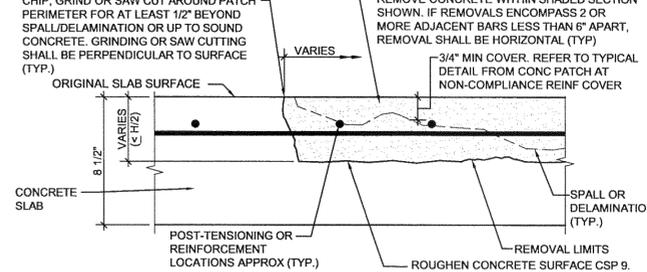
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NOTES:
1. POST-TENSIONED BUTTON-HEAD ANCHOR ASSEMBLY (RIGID PVC OR SIMILAR) SHALL BE WATER TIGHT TO PREVENT WATER PENETRATION.
2. CONTRACTOR SHALL SUBMIT PROTECTIVE COVER ASSEMBLY MATERIAL, EPOXY ADHESIVE AND INSTALLATION PROCEDURES FOR APPROVAL BY ENGINEER.

9.2A POST-TENSIONED TENDON ANCHOR COVER

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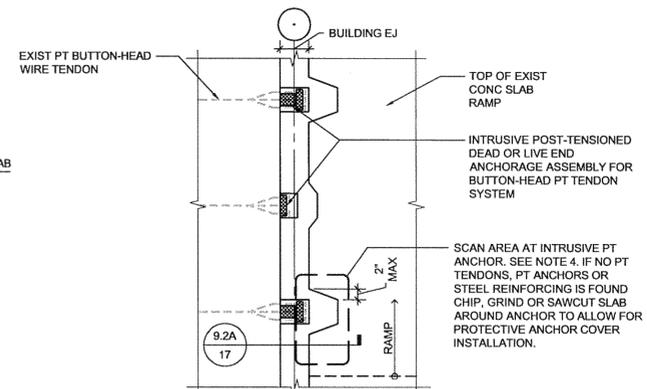


CAUTION:
SLAB MAY HAVE EMBEDDED POST-TENSIONING TENDONS AND ELECTRICAL CONDUITS. VERIFY LOCATION PRIOR TO COMMENCEMENT OF WORK.

NOTES:
1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING OR SPALL/DELMINATION REPAIR.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
4. 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.
5. PROVIDE SHORING AS SPECIFIED BY ENGINEER PRIOR TO COMMENCEMENT OF ANY CONCRETE REMOVAL WORK.
6. REFER TO DETAIL 9.1A FOR SHEATHING REPAIR ON BUTTON-HEAD TENDONS.
7. REFER TO DETAIL 9.1B FOR ADDITIONAL INFORMATION AT PT ANCHORAGES.
8. NEW PATCH SHALL MATCH EXISTING FINISH.

9.1 TYPICAL DETAIL - CONCRETE FLOOR REPAIR PARTIAL DEPTH POST-TENSIONED SLABS

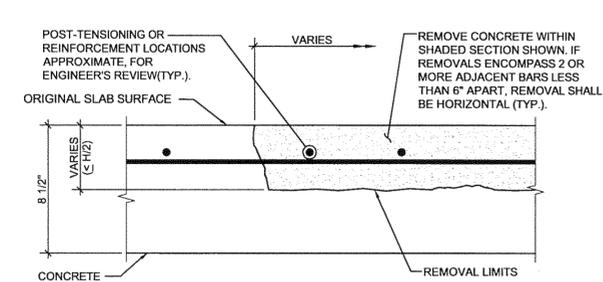
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NOTES:
1. REFER TO DETAIL 9.1B FOR CONCRETE REMOVAL AT PT ANCHORAGES.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED POST-TENSIONED ANCHORAGES.
3. REPORT TO ENGINEER POST-TENSIONED ANCHOR AND WIRES INTEGRITY SUCH AS NUMBER OF LOOSE WIRES, PITTING CORROSION ON BOTH ANCHOR AND WIRES FOR REVIEW.
4. INFORM ENGINEER IF STEEL REINFORCING, P/T TENDONS OR P/T ANCHORS ARE FOUND IN THE VICINITY OF THE INTRUSIVE DEAD /LIVE ANCHOR PRIOR TO REMOVE THE CONCRETE AROUND IT.
5. PROVIDE EPOXY COATING PER SPECIFICATIONS PRIOR TO INSTALL PROTECTIVE COVER AROUND INTRUSIVE PT ANCHOR.
6. REFER TO 9.2A FOR ANCHOR COVER INFORMATION.

9.2 POST-TENSIONED TENDON ANCHORAGE REPAIR AT EXPANSION JOINT RAMP

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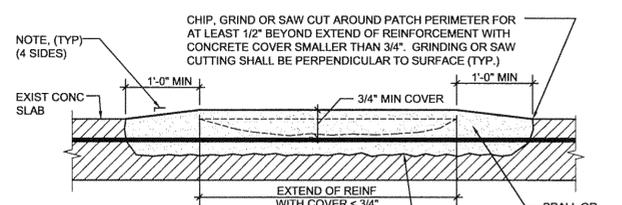


CAUTION:
SLAB MAY HAVE EMBEDDED POST-TENSIONING TENDONS AND ELECTRICAL CONDUITS. VERIFY LOCATION PRIOR TO COMMENCEMENT OF WORK.

NOTES:
1. FOR BIDDING PURPOSES, OPENING SIZE IS NOT TO EXCEED 4 SF.
2. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELMINATION REPAIR.
3. REPORT TO ENGINEER REINFORCING INTEGRITY SUCH AS NUMBER OF FRACTURED WIRES, PITTING CORROSION, AND LOCATION FOR REVIEW AND REPAIR ACTIONS.
4. REFER TO DETAIL 9.1B FOR ADDITIONAL INFORMATION AT PT ANCHORAGES.
5. TEMPORARY OPENING SHALL REMAIN OPEN UNTIL ENGINEER APPROVAL.
6. PATCH BACK SLAB OPENING AFTER ENGINEER REVIEW. IN ACCORDANCE WITH DETAIL 9.1.

9.0 TYPICAL EXPLORATORY CONCRETE POST-TENSIONED SLAB EXCAVATION

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CAUTION:
SLAB MAY HAVE EMBEDDED POST-TENSIONING TENDONS AND ELECTRICAL CONDUITS. VERIFY LOCATION PRIOR TO COMMENCEMENT OF WORK.

NOTES:
1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELMINATION REPAIR.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
4. REPORT TO ENGINEER POST-TENSION REINFORCEMENT INTEGRITY SUCH AS NUMBER OF FRACTURED WIRES, PITTING CORROSION AND LOCATION FOR REVIEW AND REPAIR ACTION.
5. GRADUALLY SLOPE THE CONCRETE PATCH MATERIAL PER SPECIFICATIONS ON ALL SIDES TO MINIMIZE TRIP HAZARD. REPORT TO ENGINEER IF CONCRETE PATCH IS LOCATED WITHIN ACCESSIBLE PARKING SPACES OR PUBLIC ACCESS DOOR IF CONCRETE PATCH EXCEEDS 1/4" OVER FINISH FLOOR SLAB.
6. 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.
7. NEW PATCH SHALL MATCH EXISTING FINISH.
8. REFER TO DETAIL 9.1A FOR SHEATHING REPAIR OF BUTTON-HEAD TENDONS.

9.1C TYPICAL DETAIL - CONCRETE PATCH AT LOW REINFORCING COVER

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LICENSED PROFESSIONAL ENGINEER
04/13/10

CITY OF HOUSTON
BUILDING SERVICES DEPARTMENT

THEATER DISTRICT PARKING -
STRUCTURAL ASSESSMENT
AND REPAIRS DRAWINGS FOR
BIDDING AND CONSTRUCTION
DETAILS

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WBS NO. B-000087-0002-4
DRAWING SCALE
VERT. AS SHOWN HORIZ. AS SHOWN
CITY OF HOUSTON PM
JAMES REDDINGTON, JR.
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