



**SFS HONDO FIRE STATION EXPANSION**

645 OLD LAS VEGAS HIGHWAY SANTA FE, NM 87505

No	Date	Description
Revision Schedule		
ISSUE:	100% CONSTRUCTION DOCUMENTS	
PROJECT NUMBER:	25.0149.S.01	
FILE:		
DRAWN BY:	EM	
CHECKED BY:	JO	
DATE:	AUGUST 15, 2025	

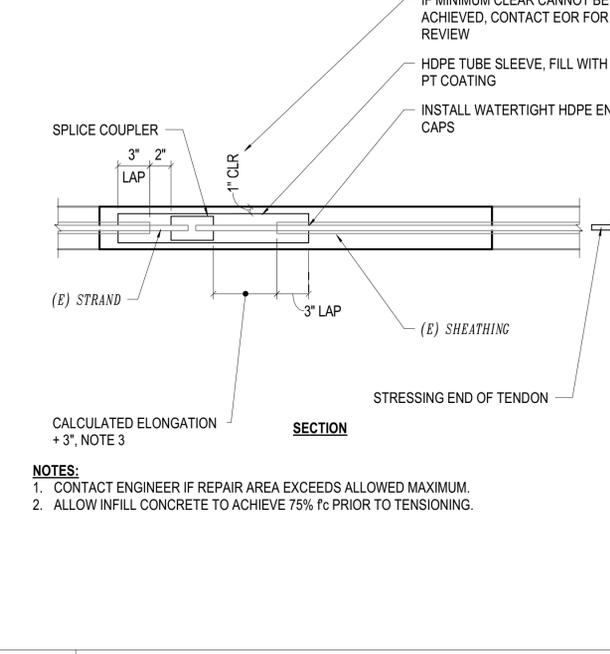
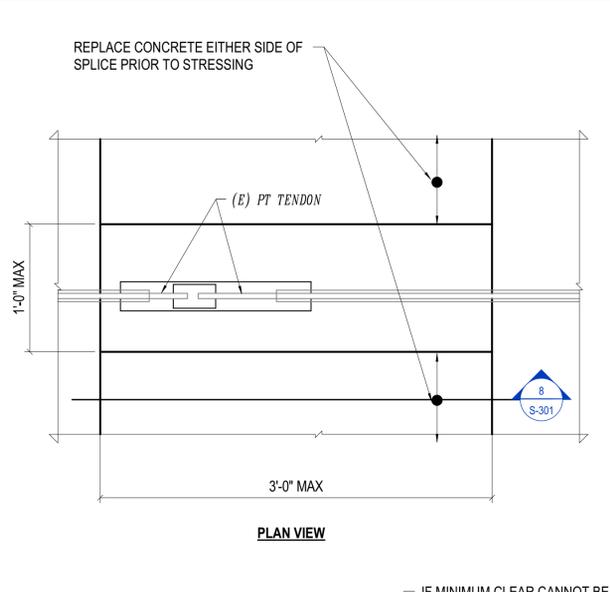
SHEET TITLE

**SLAB REPAIR DETAILS**

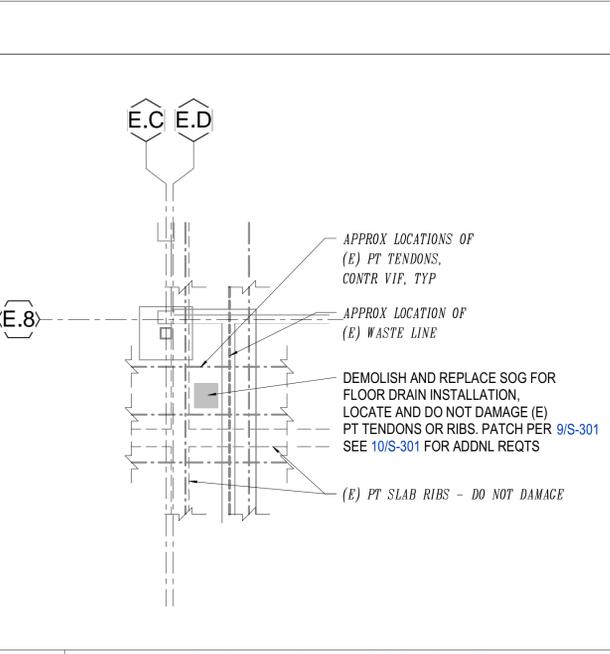
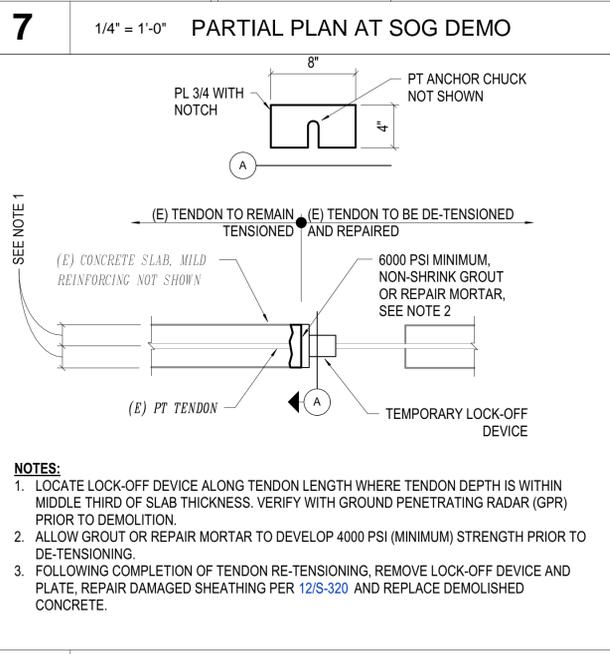
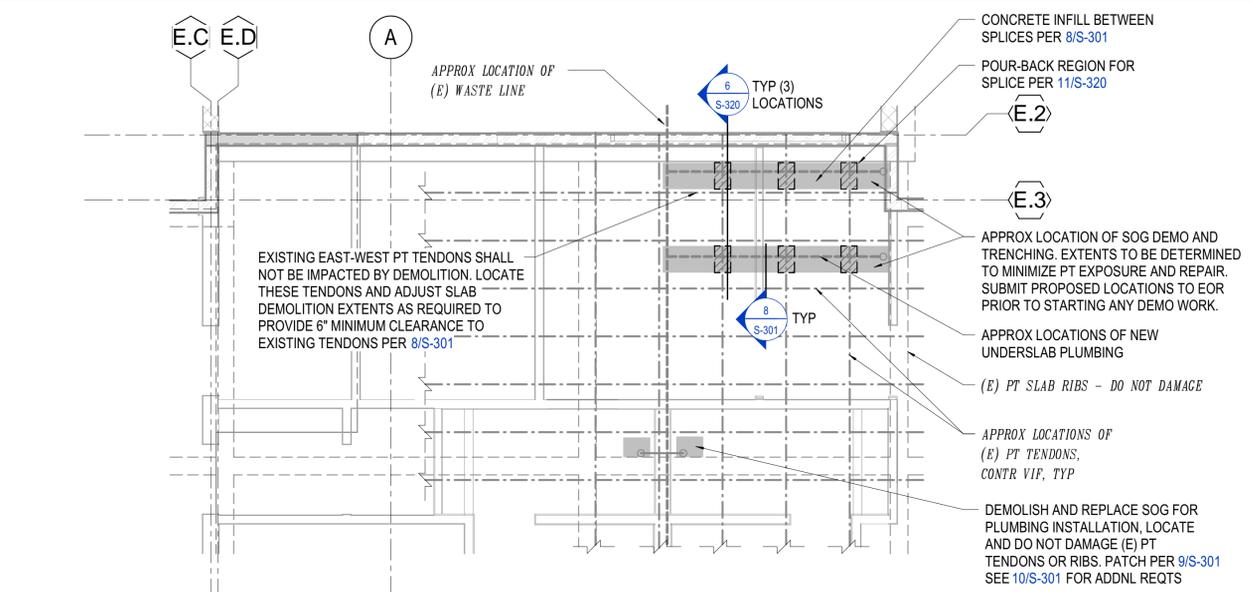
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**POST-TENSION REPAIR NOTES**

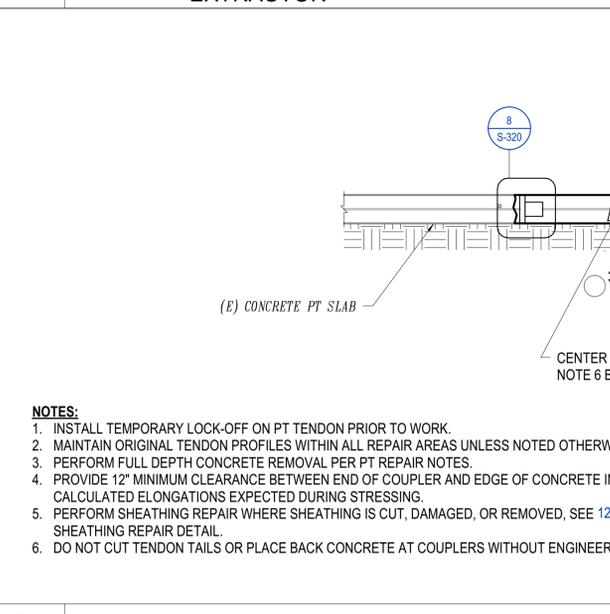
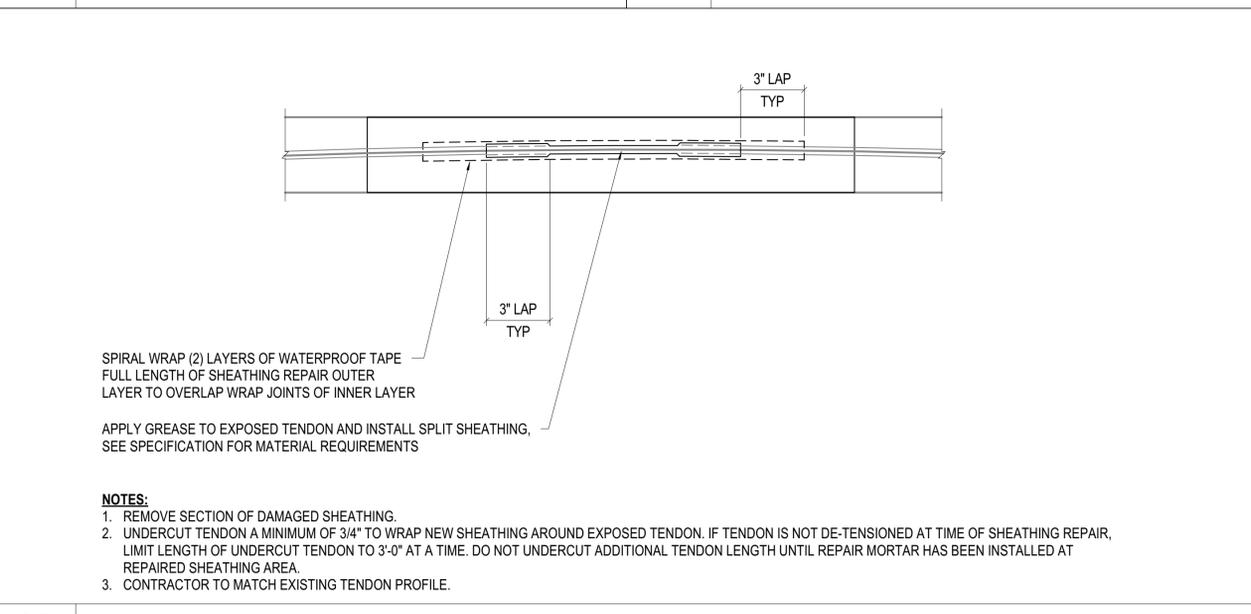
- 1) PREPARATION OF REPAIR AREAS**
  - 1A) LOCATE ALL EXISTING REINFORCING BARS, POST-TENSIONING TENDONS, CONDUIT, ETC. IN AREA TO BE REPAIRED USING PACHOMETER, GROUND PENETRATING RADAR (GRP), X-RAY, OR OTHER MEANS ACCEPTABLE TO ENGINEER. TENDONS MAY OCCUR INDIVIDUALLY OR IN BUNDLES.
  - 1B) SUBMIT CONSTRUCTION SEQUENCE AND DE-TENSIONING PROCEDURES FOR REVIEW AND APPROVAL BY ENGINEER BEFORE PROCEEDING.
  - 1C) DETENSION OR LOCK-OFF STRESSED TENDONS WHERE NECESSARY AS PART OF CONTRACTOR'S MEANS AND METHODS PRIOR TO PERFORMING DEMOLITION.
  - 1D) PERFORM CONCRETE REMOVAL WITH SMALL CONCRETE BREAKERS TO MINIMIZE DAMAGE TO CONCRETE SUBSTRATE AND TO PREVENT BRUISING OF OTHERWISE SOUND CONCRETE SURFACES. CONCRETE BREAKERS SHALL BE LIMITED TO 15 POUND ELECTRIC STYLE CHIPPING HAMMERS. PROVIDE SHARP TIPS ON BREAKER EQUIPMENT TO MINIMIZE BRUISED SURFACES IN PARTIAL DEPTH REMOVAL. AVOID DIRECTLY STRIKING REINFORCEMENT WITH IMPACT TOOLS USED FOR CONCRETE REMOVAL. CAREFULLY HAND CHIP AROUND SUCH ITEMS. DO NOT CUT OR DAMAGE EXISTING EMBEDDED REINFORCEMENT OR OTHER EMBEDDED ITEMS.
  - 1E) IF DEMOLITION EQUIPMENT OTHER THAN BREAKERS WILL BE USED, SUBMIT ALTERNATIVE METHODS INCLUDING PLANS INDICATING WHERE EACH TYPE OF EQUIPMENT WILL BE USED FOR ENGINEER REVIEW. METHODS MAY INCLUDE BUT ARE NOT LIMITED TO: SAWCUT INTO SMALL PIECES AND LIFT AWAY, HYDRO-DEMOLITION (INCLUDE WASTEWATER CONTROL PLAN), SCARIFYING, AND MILLING.
  - 1F) MAINTAIN ORIGINAL TENDON PROFILE AND SWEEP WITHIN REPAIR AREAS. AT LOCATIONS WHERE UNDERCUTTING IS REQUIRED, REESTABLISH ORIGINAL TENDON PROFILE AND SWEEP PRIOR TO RETENSIONING.
  - 1G) ALL EXCAVATED AREAS SHALL BE SQUARE OR RECTANGULAR IN SHAPE WITH 90° CORNERS. MECHANICALLY ROUGHEN ALL VERTICAL AND HORIZONTAL SURFACES OF THE EXCAVATED AREA TO 1/4" AMPLITUDE (ICRI CSP-9 SURFACE ROUGHNESS).
  - 1H) KEEP ALL REMOVED POST-TENSIONING AND REINFORCING MATERIALS (ANCHORS, STRAND, BARS, ETC.) SEPARATED AND MARKED BY LOCATION FOR ENGINEER REVIEW.
- 2) SHEATHING AND ENCAPSULATION SYSTEM**
  - 2A) PROVIDE FULLY ENCAPSULATED SYSTEM AT ALL REPAIR AREAS WITH WATER-TIGHT TRANSITION TO EXISTING ENCAPSULATION SYSTEM PER PTI GUIDELINES UNLESS NOTED OTHERWISE. SEE SPECIFICATION 030124 - UNBONDED POST-TENSIONING REPAIR.
  - 2B) REPAIR ALL DAMAGED SHEATHING WITHIN REPAIR AREAS AS SHOWN IN THE DETAILS HEREIN AND IN ACCORDANCE WITH SPECIFICATION 030124 - UNBONDED POST-TENSIONING REPAIR.
- 3) ACCEPTABLE REPAIR PRODUCTS AND MATERIALS**
  - 3A) SEE SPECIFICATION 030124 - UNBONDED POST-TENSIONING REPAIR.
  - 3B) ALL POST-TENSIONING DEVICES AND MATERIALS SHALL CONFORM TO REQUIREMENTS OF ACI 423.7-14 SPECIFICATION FOR UNBONDED SINGLE-STRAND TENDON MATERIALS. SUBMIT ALL POST-TENSIONING DEVICES AND MATERIALS FOR REVIEW AND APPROVAL BY ENGINEER.
- 4) SUBSTITUTIONS:**
  - 4A) ALL SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO USE. ALTERNATE PRODUCTS MUST MEET OR EXCEED THE PERFORMANCE CRITERIA OF THE SPECIFIED PRODUCTS.
- 5) PERFORMANCE CRITERIA**
  - 5A) REFER TO THE MANUFACTURER'S PRODUCT DATA SHEETS FOR SPECIFIED PRODUCTS.
- 6) APPLICATION**
  - 6A) EXISTING PT TENDONS ARE ASSUMED TO BE 1/2" DIA, 7-WIRE, GRADE 270, STRESS-RELIEVED STRANDS. TENSION TENDON AT STRESSING DEVICE WITH A CALIBRATED HYDRAULIC STRESSING JACK TO A 33.0 KIP INITIAL JACKING FORCE, TO ACHIEVE A FINAL EFFECTIVE FORCE OF 28.9 KIPS AFTER ALL SEATING LOSSES. CONTACT ENGINEER IF EXISTING STRAND DIFFERS FROM THAT ASSUMED IN DESCRIPTION.
  - 6B) ACTUAL STRESSING EQUIPMENT GAUGE PRESSURE USED TO ACHIEVE THE INDICATED JACKING FORCE SHALL BE DETERMINED BASED UPON THE EQUIPMENT CALIBRATION LOG.



**11** NO SCALE TENDON SPLICE



**5** 1/4" = 1'-0" PARTIAL PLAN - SOG DEMO AT EXTRACTOR



**6** 1" = 1'-0" PT TENDON REPAIR SECTION

8/14/2025 2:45:16 PM  
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 DATE PRINTED: 8/14/2025 2:45:16 PM  
 FILE PATH: \\mbx01\Drawings\ACC-INT\25025.0149.S.01 - HONDO FIRE STATION EXPANSION - SFS.rvt  
 MML JOB #: 25.0149.S.01  
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