

**GENERAL NOTES**

**PRESTRESSING S&H**

- 1.1 PRESTRESSING S&H SHALL BE SEVEN-WIRE LOW RELAXATION STRAND FOR PRESTRESSED CONCRETE MANUFACTURED IN ACCORDANCE WITH ASTM A416, GRADE 270 KSI AND FREE FROM CORROSION HAVING A MINIMUM GUARANTEED ULTIMATE TENSILE STRENGTH OF 21,000 P.S.F.
- NORMAL PLACEMENT: 0.15% SO. IN.
- MODULUS OF ELASTICITY (ASSUMED): 28,500 KSI
- ULTIMATE ELONGATION: 3.5%
- MAX. TENSILE FORCE (SEE S&H CALIBRATION CHART): 33.6 KIPS
- ANCHORING FORCE: 28.9 KIPS

- 1.2 STRANDS COATED WITH A RUST INHIBITIVE GREASE AND ENCLOSED IN A SEAMLESS LAMINATED PLASTIC SHEATHING. IF DAMAGED SHEATHING SHALL BE PATCHED BEFORE CONCRETE POURING. SMALL TEARS LESS THAN 5 IN. IN LENGTH SHALL NOT BE PATCHED.

**ANCHORAGES**

- 2.1 ALL STRUCTURAL TIE, PRESTRESSING ANCHORAGES SHALL MEET THE MINIMUM REQUIREMENTS SET FORTH IN A.C.I. STANDARD BUILDING CODE REQUIREMENTS FOR REIN-ORCED CONCRETE (ACI 318-89, CHAPTER 18).
- 2.2 VSL S&H ANCHORAGES WITH REUSABLE GROMMETS SHALL BE USED AT ALL STRESSING ENDS WHERE ANCHORAGES MUST BE INCORPORATED IN CONCRETE IN ORDER TO RECEIVE REINFORCED CONCRETE COVER. IF GROMMETS IN FORM OF JOINTS ARE TO BE REMOVED.
- 2.3 VSL S&H ANCHORAGE WITH SPLIT GROMMETS SHALL BE USED AT ALL STRESSING ENDS WHERE TENDONS ARE TO BE STRESSED INTERMEDIATELY AND AT CHAIR LOCATIONS WHERE STRESSING END ANCHORAGES WILL RECEIVE CONCRETE COVER BY A REINFORCED CONCRETE POUR, WALL POUR, OR A CLOSURE POUR.
- 2.4 VSL S&H ANCHORAGE WITH SHOP PRE-CASTED WEDGES SHALL BE USED FOR ALL DEAD END ANCHORAGES.

**TENDON FABRICATION AND PLACING**

- 3.1 TENDONS WILL BE FABRICATED WITH SUFFICIENT LENGTH BEYOND THE EDGE FORM TO ALLOW STRESSING. A LENGTH OF TWELVE (12") INCHES AT EACH STRESSING END IS REQUIRED.
- 3.2 TENDONS THAT ARE STRESSED FROM ONE END ONLY SHALL HAVE DEAD END ANCHORAGES TO PREVENT DAMAGE TO THE SHEATHING. TENDONS THAT ARE STRESSED INTERMEDIATELY AT A CONSTRUCTION JOINT SHALL HAVE AN ANCHORAGE PLACED CLOSE TO THE DEAD END OF THE TENDON PRIOR TO STRESSING.
- 3.3 TENDONS SHALL BE CLEARLY IDENTIFIED BY COLOR CODE AS CALLED FOR ON THE TENDON LAYOUT DRAWINGS TO FACILITATE PLACEMENT.
- 3.4 EACH TENDON SHIPMENT SHALL BE ACCOMPANIED BY A CUTTING LIST INDICATING THE NUMBER OF TENDONS, THEIR LENGTH, COLOR CODE, TOTAL NUMBER OF ANCHORAGES, GROMMETS AND SUPPORT CHAIRS (WHERE APPLICABLE) SHIPPED. THE PURCHASER SHALL VERIFY THAT THE MATERIALS DELIVERED ARE IN AGREEMENT WITH THE CUTTING LIST AND SHALL NOTIFY THE CONTRACTOR OF ANY SHORTAGES IN ACCORDANCE WITH VSL'S GENERAL TERMS AND CONDITIONS.
- 3.5 TENDONS WILL BE FABRICATED IN SUCH SEQUENCE AND QUANTITY AS TO ALLOW SHIPMENT IN FULL TRUCKLOADS.
- 3.6 PURCHASERS SHALL PROTECTLY UNLOAD TENDONS UPON ARRIVAL. USE OF A NYLON SLING IS RECOMMENDED TO PREVENT DAMAGE TO THE SHEATHING. PURCHASERS SHALL IMMEDIATELY PROTECT TENDONS AT THE JOBSITE FROM CORROSION PRIOR TO PLACEMENT. SUFFICIENT PROTECTION SHALL ALSO BE PROVIDED FOR EXPOSED PRESTRESSING S&H AT THE ENDS OF MEMBERS TO PREVENT DEGRADATION.

**TENDON PLACEMENT**

- 4.1 LOCATE THE CENTERLINES OF THE TENDON BUNDLES (SEE TENDON LAYOUT DRAWINGS) AND MARK THE ANCHORAGE CENTERLINES AT STRESSING ENDS. THE CONTRACTOR SHALL DRILL 3/4" DIAMETER HOLES AT THE END FORMS. INTERMEDIATE STRESSING JOINTS, NOTCHED OR SPLIT FORMS SHALL BE PROVIDED TO FACILITATE TENDON PLACING.
- 4.2 AT STRESSING ENDS, NAIL THE ANCHORAGES WITH GROMMETS SECURELY IN PLACE AGAINST THE EDGE FORMS USING NINE SHANK NAILS.
- 4.3 LAY BOTTOM PERIMETER BARS ALONG THE EDGES OF THE SLAB AND THE INTERMEDIATE STRESSING LOCATIONS.
- 4.4 PLACE SUPPORT BARS AND TENDONS ACCORDING TO THE TENDON LAYOUT AND SUPPORT LAYOUT PLANS.
- 4.5 CHECK PLACING PROCEDURES ARE AS FOLLOWS:
  - UNCOIL TENDONS IN ACCORDANCE WITH THE APPROPRIATE TENDON PLACEMENT SEQUENCE (SEE SECTION 4.6) STARTING AT THE DEAD ENDS.
  - AT STRESSING ENDS, REMOVE SHEATHING INSIDE THE EDGE FORM PUSH WITH BACK SIDE OF THE ANCHORAGE.
  - AT INTERMEDIATE STRESSING JOINTS, REMOVE JUST ENOUGH SHEATHING TO ALLOW PROPER STRESSING; NO SHEATHING CAN REMAIN IN THE ANCHORAGES.
  - AT DEAD ENDS AS SHOWN IN THE DETAILS.
  - AT STRESSING ENDS, PASS TENDONS THROUGH ANCHORAGES. ALLOW 12" TO 14" PAST THE FORM FOR STRESSING.
  - AT INTERMEDIATE STRESSING JOINTS, PLACE TENDONS THROUGH EDGE FORM AND NAIL S&H ANCHORAGES OR SLOTTED BEARING PLATES AGAINST THE INSIDE FACETS OF FORM AND INSERTS MUST BE COORDINATED WITH PLACEMENT OF TENDONS; IN CASE OF CONFLICT, TENDON LOCATION GOVERNS.

- 4.6 TENDON PLACING SEQUENCE IS AS FOLLOWS:
  - BANDED SLAB**
    - PLACE UNIFORM TENDONS OVER COLUMN CENTERLINES.
    - PLACE REMAINDER OF UNIFORM TENDONS.

- 4.7 LAY TOP PERIMETER BARS ALONG SLAB EDGES AND INTERMEDIATE STRESSING JOINTS. THE BOTTOM AND TOP PERIMETER BARS TO ANCHORAGES OR TENDONS AS SHOWN.
- 4.8 CHAIR UP SUPPORT BARS AND TENDONS ACCORDING TO SUPPORT LAYOUT DRAWINGS. PLACE TENDONS WITH SMOOTH BOUNDARIES AT THE ANCHORAGES AS SHOWN IN THE DETAILS. FLAG CHAIRS AT THE INTERSECTION OF TENDON AND SUPPORT BARS. SLAB TENDONS CROSSING OVER A BEAM MAY BE TIED DIRECTLY TO THE TOP LONGITUDINAL BARS OF THE BEAM IF PROPER C.C.'S OF H&H TENDONS ARE MAINTAINED.
- 4.9 AT STRESSING ENDS, WHEN THE TENDON ANCHORAGE CONNECTIONS WITH HEAVY DUTY TAP TO PREVENT CEMENT FLOW INTO ANCHORAGES, CONCRETE SHALL BE PLACED IN SUCH A MANNER AS NOT TO DISRUPT THE TENDON PROFILES. WORKERS MUST BE CAUTIONED AGAINST WALKING ON TENDONS. THE SUPPORT BARS, ANY TENDON UNPLACED DURING CONCRETE PLACEMENT MUST BE RESTORED TO ITS ORIGINAL PROPER SUPPORT CONCRETE SLABS.

**TENDON STRESSING**

- 5.1 THE STRESSING OPERATIONS MUST BE UNDER THE IMMEDIATE CONTROL OF A PERSON EXPERIENCED IN THIS TYPE OF WORK; HE MUST MAINTAIN A CLOSE CHECK AND RIGID CONTROL OF ALL OPERATIONS.
- 5.2 THE STRESSING OPERATION CAN COMMENCE WITH CONCRETE TEST CYLINDERS, CURED UNDER ADVERSE CONDITIONS, HAVE BEEN TESTED AND INDICATE THAT THE CONCRETE HAS REACHED A MINIMUM STRENGTH OF 3,000 P.S.F.

- 5.3 ALL PRESTRESSING STEEL SHALL BE STRESSED BY MEANS OF HYDRAULIC JACKS, EQUIPPED WITH CALIBRATED HYDRAULIC PRESSURE GAUGES. A CALIBRATION CHART SHALL ACCOMPANY EACH JACK IF INCREASINGLY EXCEEDS 10% OF THE CALCULATED ELONGATION AND THE MEASURED ELONGATION. THE CAUSE OF THE INCONSISTENCY SHALL BE DETERMINED AND RESOLVED. THE PROCEDURE FOR STRESSING IS AS FOLLOWS:
  - REMOVE GROMMETS OF STRESSING END; CHECK INSIDE EACH GROMMET HOLE TO MAKE SURE THAT THE ANCHORAGES ARE FREE FROM CEMENT PASTE; IF NOT, REMOVE PASTE FROM ANCHORAGE.
  - INSERT WEDGES, SIDE BY SIDE, BY HAND INTO EACH ANCHORAGE.
  - PUT A DANT MARK ON EACH TENDON AT EACH STRESSING END AT A FIXED DISTANCE 2" OR 3" FROM THE EDGE OF THE SLAB. CARE SHOULD BE TAKEN TO ASSURE AN EVEN PAINT MARK.
  - STRESS TENDON TO 100% OF ULTIMATE CAPACITY, I.E. 33 KIPS. (SEE S&H CALIBRATION CURVE FOR GAUGE PRESSURE).
  - SEAL THE WEDGES IN THE ANCHORAGE USING THE HYDRAULIC DEVICE BUILT INTO THE JACK.
  - REMOVE THE JACK.
  - MEASURE FINAL ELONGATION, RECORD ELONGATION.
- 5.4 TENDONS STRESSED FROM ONE END ONLY SHALL BE SO INDICATED ON THE PLACING DRAWINGS. TENDONS THAT ARE RELEASED FROM BOTH ENDS NEED NOT BE STRESSED FROM BOTH ENDS. SIMULTANEOUSLY STRESSING TENDONS MAY HAVE MORE THAN ONE END THAT AT THE OPPOSITE END, THE ELONGATION FROM BOTH ENDS MUST TOTAL THE ELONGATION SHOWN ON THE TENDON LAYOUT DRAWINGS.
- 5.5 IF CONCRETE CONDITIONS WARRANT, THE LOCATION OF THE FIXED END ANCHORAGE MAY BE REVERSED WITH THE LOCATION OF THE STRESSING END ANCHORAGE LOCATION.
- 5.6 CALCULATED ELONGATIONS WILL BE BASED UPON THE FOLLOWING FORMULA:
 
$$\frac{\Delta L}{L} = \frac{289 \times K \times L \times 10^{-6}}{0.753 \times 28,500} = 0.078 \times X \times L$$
- 5.7 THE POST-TENSIONING OPERATION SHALL BE SO CONDUCTED THAT ACCURATE ELONGATION OF THE PRESTRESSING STEEL CAN BE RECORDED AND COMPARED WITH COMPUTATIONS SUBMITTED AND APPROVED BY THE STRUCTURAL ENGINEER.
- 5.8 RECORDS SHALL BE KEPT OF ALL JACKING FORCE AND ELONGATIONS AND SUBMITTED PROMPTLY TO THE STRUCTURAL ENGINEER.
- 5.9 TAKE SAFETY PRECAUTIONS AS NECESSARY; DO NOT PERMIT WORKMAN TO STAND BEHIND JACKS WHILE STRESSING TENDONS.

- 6.1 **BANDED S&H**:
  - STRESS BANK OF UNIFORM TENDONS.
  - STRESS ALL BANDED TENDONS.
  - STRESS THE REST OF UNIFORM TENDONS.
- 6.2 **SEALING ANCHORAGE BUCKETS**:
  - 7.1 AFTER STRESSING IS COMPLETED, ELONGATIONS VERIFIED AND WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER, TENDONS SHALL BE BURIED OR CUT OFF WITHIN ONE INCH (1") FROM THE SLAB EDGE.
  - 7.2 AFTER TENDONS HAVE BEEN BURIED OR CUT OFF, THE CONTRACTOR SHOULD DRYPACK EXPOSED ANCHORAGE BUCKETS. IT IS SUGGESTED THAT A NON-METALLIC MIXTURE MAY BE USED FOR THIS PURPOSE. OTHERWISE A STIFF GROUT MIXTURE OF 2 PARTS CEMENT TO 1 PART SAND MAY BE USED.

- 6.2 **MISCELLANEOUS**:
  - 8.1 ALL THE EQUIPMENT USED FOR HANDLING AND PLACING TENDONS MUST NOT DAMAGE OR DEGRADATE THE PRESTRESSING STEEL OR THE ANCHORAGES.
  - 8.2 VSL POST-TENSIONING SHOP DRAWINGS ARE INTENDED FOR TENDON AND SUPPORT BAR PLACEMENT ONLY. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATION OF EDGE FORMS, OPENINGS, CHANGES OF LEVEL AND FINAL FINISH CONCRETE ELEVATIONS.
  - 8.3 ALL INSERTS FOR SUBSTITUTES MECHANICAL AND ARCHITECTURAL WORK MUST BE CAST IN PLACE. IF ADDITIONAL FASTENERS ARE REQUIRED, POWER DRIVEN FASTENERS WILL BE PERMITTED ONLY WHERE THEY WILL NOT SPALL THE CONCRETE AND NOT DAMAGE THE TENDONS. CONTRACTORS MUST LOCATE TENDONS AT THE SURFACE OF THE SLAB BEFORE DRIVING FASTENERS.
  - 8.4 ALL POCKETS AND CLOSURE STRIPS FOR ANCHORAGES MUST BE ADEQUATELY REINFORCED SO AS NOT TO COMPROMISE THE STRENGTH OF THE STRUCTURE.
  - 8.5 FIELD DEAD ENDS, WHEN REQUIRED, ARE TO BE STRESSED ONTO STRAIGHT USING A VSL HYDRAULIC JACK. ANCHORAGES ARE TO BE STRESSED TO A FORCE OF 33 KIPS TO FULLY SEAL THE WEDGES. A SPECIAL NOTCH FIT FOR THE JACK IS FURNISHED FOR THE OPERATION.
  - 8.6 WHEN 6 OR MORE STRANDS ARE SPACED AT LESS THAN 12" O.C. HAIRPINS MUST BE USED AT THE ANCHORAGES AS SHOWN IN DETAIL OR AS SPECIFIED BY STRUCTURAL ENGINEER.
    - 3/4 HAIRPIN BETWEEN EACH ANCHOR AND ON EACH SIDE OF THE GROUP.
    - 1/2 HAIRPIN FOR 10 STRANDS.

- 6.3 **STRESSING SEQUENCE**:
  - STRESS BANK OF UNIFORM TENDONS.
  - STRESS ALL BANDED TENDONS.
  - STRESS THE REST OF UNIFORM TENDONS.

- 6.4 **SEALING ANCHORAGE BUCKETS**:
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    - 3/4 HAIRPIN BETWEEN EACH ANCHOR AND ON EACH SIDE OF THE GROUP.
    - 1/2 HAIRPIN FOR 10 STRANDS.

- 6.6 **LEGEND**:
  - ① SINGLE STRAND
  - ② TWO STRANDS BUNDLED
  - ③ THREE STRANDS BUNDLED
  - ④ FOUR STRANDS BUNDLED
  - ⑤ FIVE STRANDS BUNDLED
  - ⑥ STRANDS DEAD ENDED
  - ⑦ STRESSING END
  - ⑧ ADDED STRAND
  - ⑨ SLAB EDGE
  - ⑩ STRESSING RECORD NUMBER
  - ⑪ POLE SEQUENCE NUMBER
  - ⑫ TENDON ELONGATION

- 6.7 **TENDON SUPPORT BAR AND BACK UP BAR FURNISHED BY OTHERS**

- 6.8 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")

- 6.9 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")

- 6.10 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")

- 6.11 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")

- 6.12 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")

- 6.13 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")

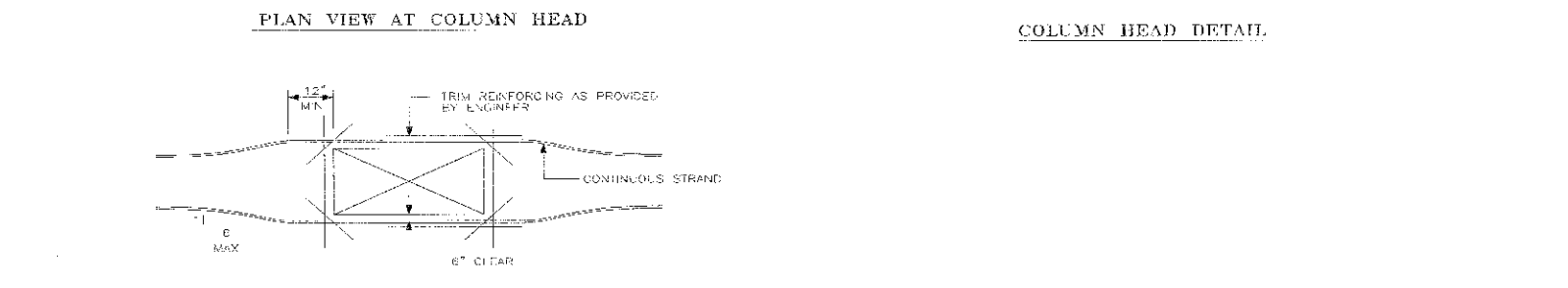
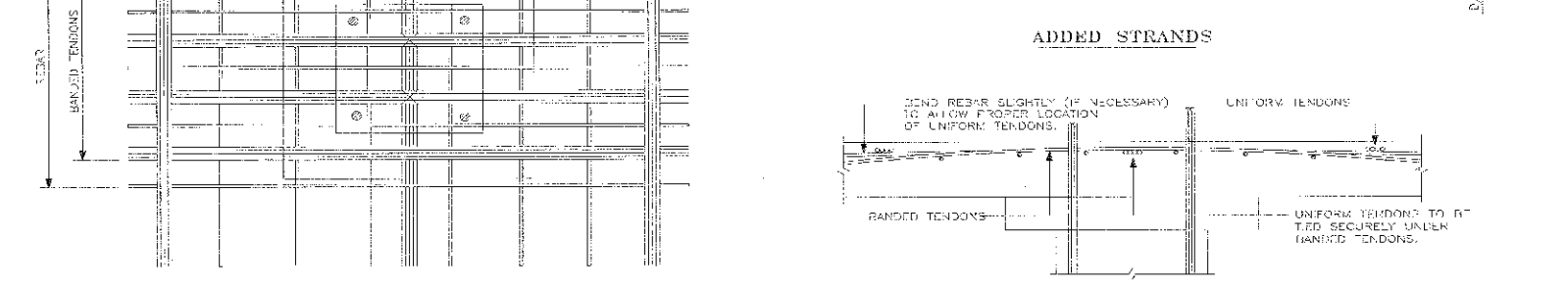
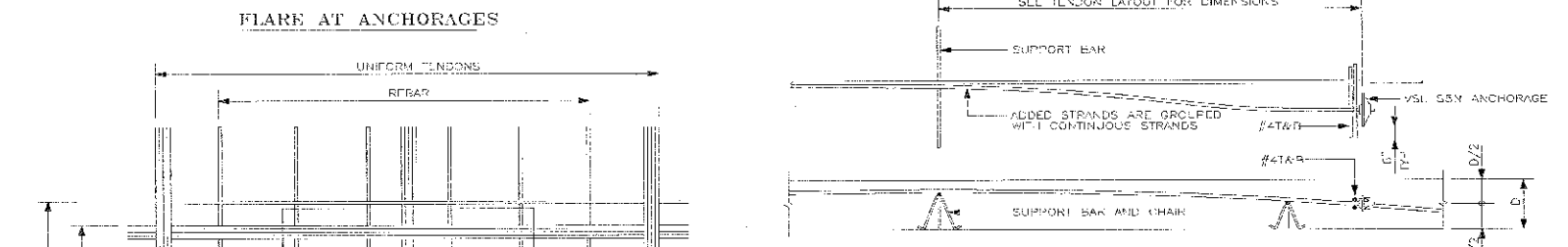
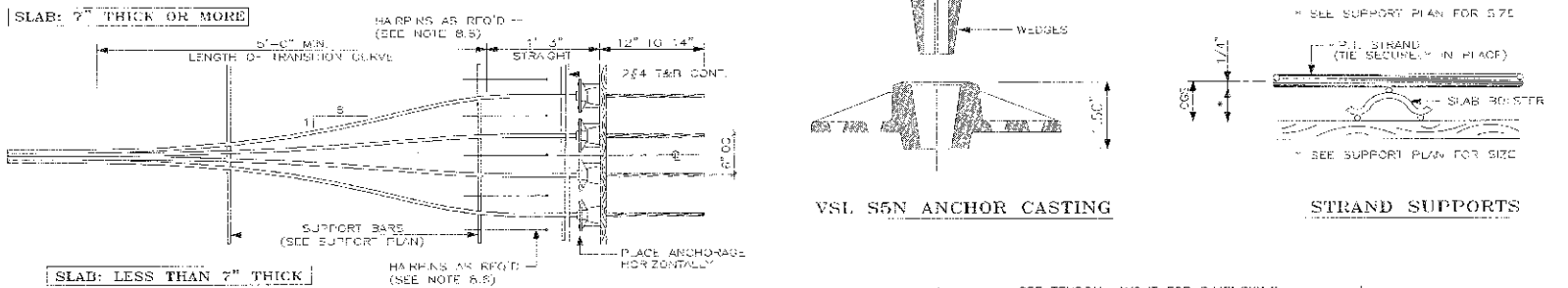
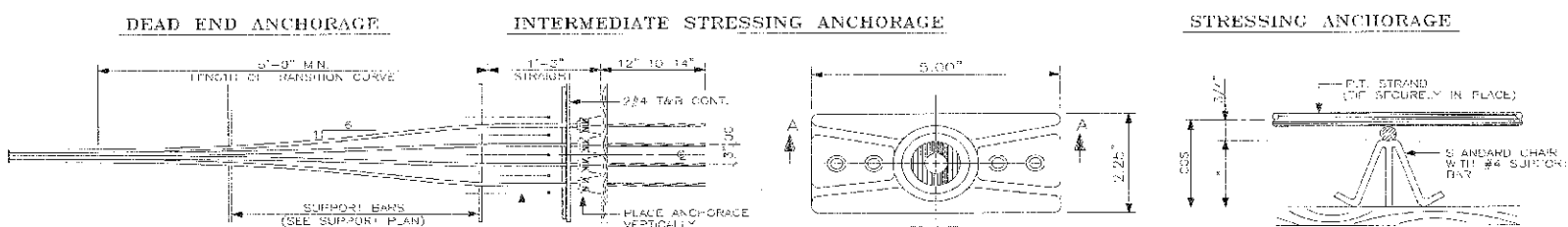
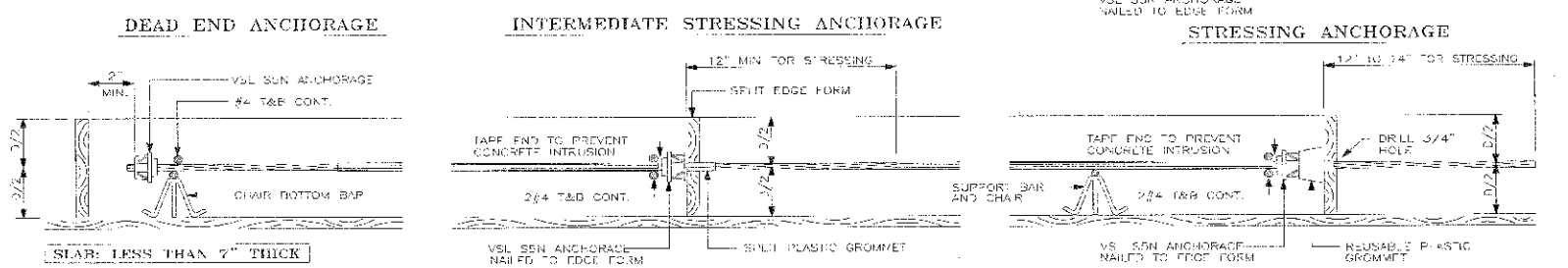
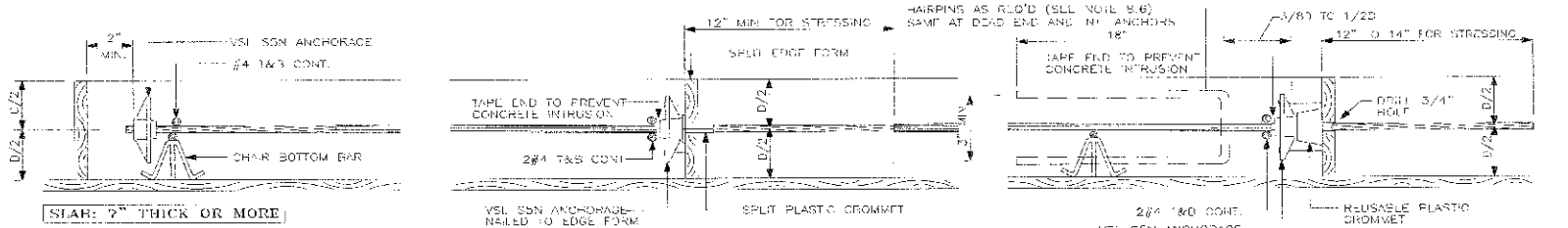
- 6.14 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")

- 6.15 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")

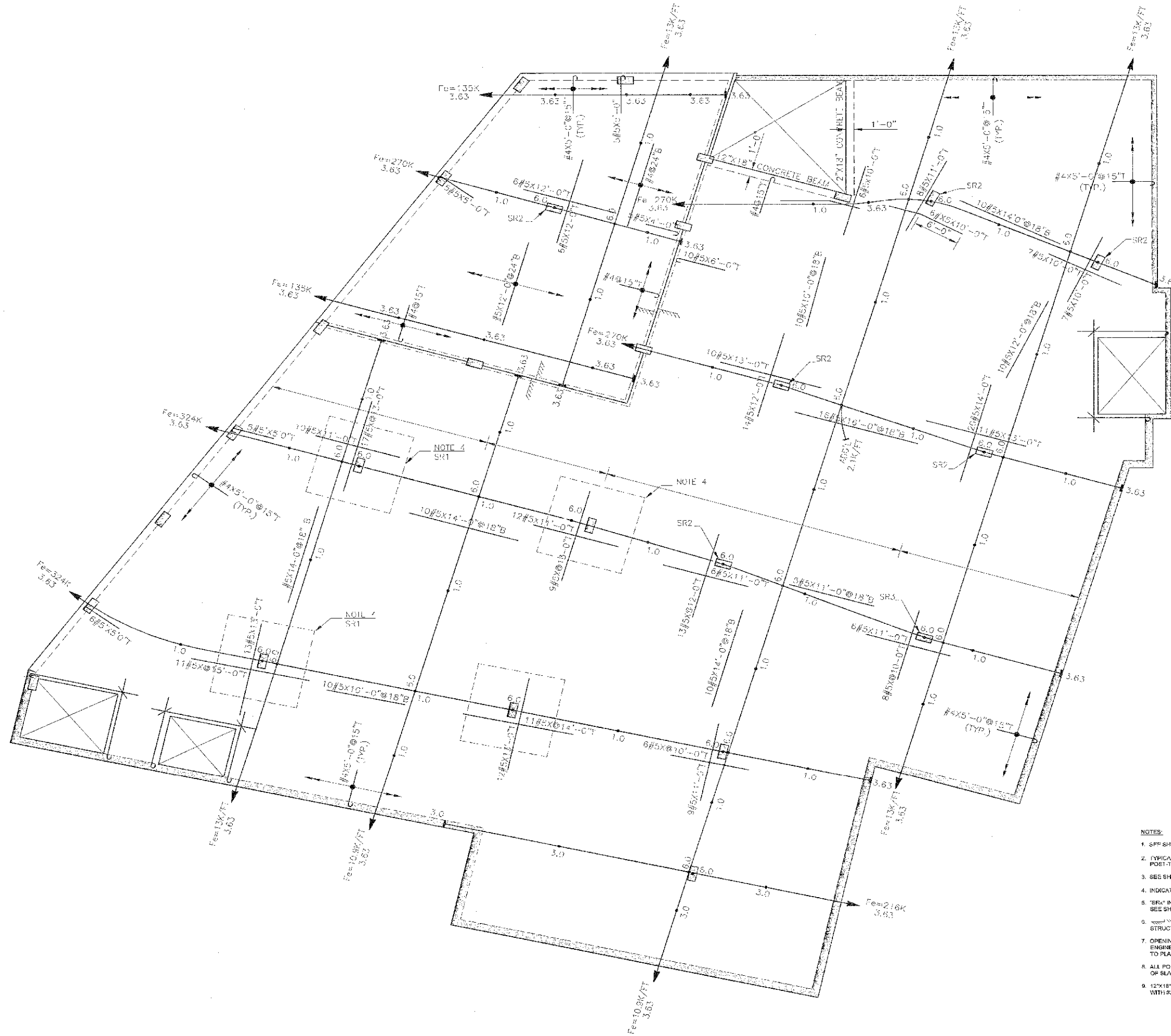
- 6.16 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")

- 6.17 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")

- 6.18 **HAIRPIN DETAIL @ CURVED TENDONS** (RADIUS < 20'-0")



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 APPROVAL ISSUED FOR  
 DES. JDC  
 DRN. CDB  
 CHK. JDC  
 VSL  
 GENERAL NOTES AND DETAILS  
 12th & PIEDMONT  
 JOB NO: 2700  
 SHEET: PT-01




**2nd FLOOR FRAMING PLAN**  
 SCALE: 3/16"=1'-0" SLAB = 7/16" (U.N.O.)

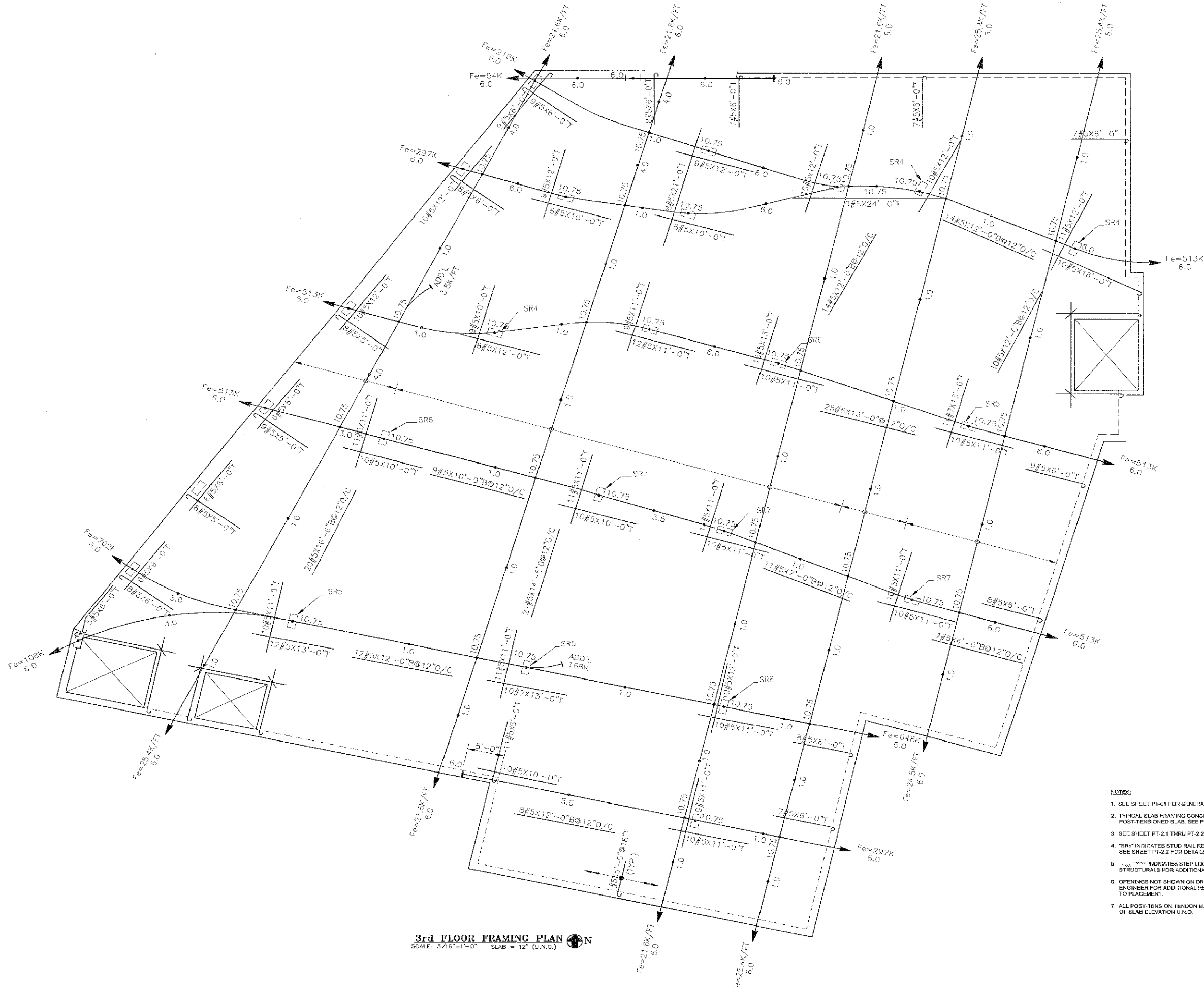
- NOTES:**
1. SFP SHEET FT-01 FOR GENERAL NOTES.
  2. TYPICAL SLAB FRAMING CONSISTS OF 7 1/2" THICK TWO-WAY POST-TENSIONED SLAB. SEE PLAN FOR DEVIATIONS.
  3. SEE SHEET PT-2.1 THRU PT-2.2 FOR TYPICAL ELEVATED SLAB DETAILS.
  4. INDICATES 11'-0"x11'-0"x1 1/2" (TYPICAL THICKNESS) DROP CAP.
  5. "SR" INDICATES SHEAR RAIL REINFORCEMENT CONFIGURATION. SEE SHEET PT-2.2 FOR DETAILS AND SCHEDULES.
  6. [Symbol] INDICATES STEP LOCATION. SEE ARCHITECTURAL AND STRUCTURAL FOR ADDITIONAL INFORMATION.
  7. OPENINGS NOT SHOWN ON DRAWINGS MUST BE COORDINATED WITH ENGINEER FOR ADDITIONAL REINFORCEMENT REQUIREMENTS PRIOR TO PLACEMENT.
  8. ALL POST-TENSION TENDON ELEVATIONS INDICATED ARE FROM BOTTOM OF SLAB ELEVATION U.N.O.
  9. 12"x18" CONCRETE BEAMS TO HAVE 2# TOP AND BOTTOM CONTINUOUS WITH #3 TIES @ 9" O/C TYPICAL.

STRUCTURAL FLOOR (SFP) DATA  
 VSI is responsible only for the structural strength design of the post-tensioned members due to vertical loading, and VSI disclaims any liability for design in accordance with the criteria established by the engineer of record. This design is not to be used unless approved by the engineer of record, and VSI disclaims any liability for the design and details of others.

DESIGNER: JDC		CHECKER: JDC		DATE: 1-14-06		PROJECT: 12th & PIEDMONT	
DRAWN: CAD		DATE: 1-14-06		SHEET: PT-1.1		JOB NO: 2700	
APPROVAL: JDC		DATE: 1-14-06		PROJECT: 12th & PIEDMONT		JOB NO: 2700	
ISSUED FOR: JDC		DATE: 1-14-06		PROJECT: 12th & PIEDMONT		JOB NO: 2700	

  
 VSI  
 12th & Piedmont  
 www.vsi.com

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**3rd FLOOR FRAMING PLAN**  
 SCALE: 3/16"=1'-0" SLAB = 12" (U.N.O.)

- NOTES:**
- SEE SHEET PT-01 FOR GENERAL NOTES.
  - TYPICAL SLAB FRAMING CONSISTS OF 12" THICK TWO-WAY POST-TENSIONED SLAB. SEE PLAN FOR DEVIATIONS.
  - SEE SHEET PT-2.1 THRU PT-2.2 FOR TYPICAL ELEVATED SLAB DETAILS.
  - "SR" INDICATES STUD RAIL REINFORCEMENT CONFIGURATION. SEE SHEET PT-2.2 FOR DETAILS AND SCHEDULES.
  - INDICATES STEP LOCATION. SEE ARCHITECTURAL AND STRUCTURALS FOR ADDITIONAL INFORMATION.
  - OPENINGS NOT SHOWN ON DRAWINGS MUST BE COORDINATED WITH ENGINEER FOR ADDITIONAL REINFORCEMENT REQUIREMENTS PRIOR TO PLACEMENT.
  - ALL POST-TENSION TENDON ELEVATIONS INDICATED ARE FROM BOTTOM OF SLAB ELEVATION U.N.O.

VESTRUCTURAL LLC (VLL) GASKR  
 VLL is responsible only for the structural strength design of the post-tensioned members due to vertical loading, and the member size, the slab edge to its accordance with the details established by the engineer of record. This design is not to be used without approval of the engineer of record, and VLL shall not be held liable for the design and details of others.

DESIGNER		JDC	DATE	10/10/10
DRAWN BY		DBN	DATE	10/10/10
CHECKED BY		CTK	DATE	10/10/10
APPROVAL FOR		JDC	DATE	10/10/10
ISSUED FOR		JDC	DATE	10/10/10
BY		JDC	DATE	10/10/10

**VESTRUCTURAL LLC**  
 1000 W. 10th Street, Suite 100  
 Oklahoma City, Oklahoma 73106  
 Phone: 405.442.0000  
 Fax: 405.442.0001  
 www.vestructural.com

**LEVEL 3**  
**THIRD FLOOR FRAMING PLAN**  
**12th & PIEDMONT**

**JOB NO: 2700**  
**SHEET: PT-1.2**

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