

**SPECIAL INSPECTION NOTES**

IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE BUILDING CODE, THE OWNER OR THE ARCHITECT SHALL EMPLOY QUALIFIED PERSONNEL TO PERFORM THE FOLLOWING SPECIAL INSPECTIONS AND REPORT THE FINDINGS TO THE ENGINEER AND BUILDING OFFICIAL. THIS DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR 48 HOURS IN ADVANCE OF ALL INSPECTIONS.

**STRUCTURAL STEEL CONSTRUCTION**  
(IBC 2015, 1705.2.1, 1705.11.1 & 1705.12.2)

| ITEM  | CONTINUOUS | PERIODIC | DETAILED INSTRUCTIONS AND FREQUENCIES                          |          |
|---|------------|----------|--|----------|
| <b>1. PRIOR TO WELDING</b>  |            |          |  |          |
| A. VERIFY WELDING PROCEDURES (WPS) AND CONSUMABLE CERTIFICATES  | x          | -        | REF STD.   | IBC REF. |
| B. MATERIAL IDENTIFICATION  | -          | x        | TABLE N5.4-1, AISC 360-10                                      |          |
| C. WELDER IDENTIFICATION  | -          | x        |  |          |
| D. FIT-UP GROOVE WELDS  | -          | x        |  |          |
| E. ACCESS HOLES   | -          | x        |  |          |
| F. FIT-UP OF FILLET WELDS   | -          | x        |  |          |
| <b>2. DURING WELDING</b>  |            |          |  |          |
| A. USE OF QUALIFICATION WELDERS   | -          | x        | TABLE N5.4-2, AISC 360-10                                      |          |
| B. CONTROL AND HANDLING OF WELDING CONSUMABLES  | -          | x        |  |          |
| C. CRACKED TRACK WELDS  | -          | x        |  |          |
| D. ENVIRONMENTAL CONDITIONS   | -          | x        |  |          |
| E. WPS FOLLOWES   | -          | x        |  |          |
| F. WELDING TECHNIQUES   | -          | x        |  |          |
| <b>3. AFTER WELDING</b>   |            |          |  |          |
| A. WELDS CLEANED  | -          | x        | TABLE N5.4-3, AISC 360-10                                      |          |
| B. SIZE, LENGTH, AND LOCATION OF WELDS  | x          | -        |  |          |
| C. WELDES MEET VISUAL ACCEPTANCE CRITERIA   | x          | -        |  |          |
| D. ARC STRIKES  | x          | -        |  |          |
| E. K-AREA   | x          | -        |  |          |
| F. BACKING & WELD TABS REMOVES  | x          | -        |  |          |
| G. REPAIR ACTIVITIES  | x          | -        |  |          |
| H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT / MEMBER  | x          | -        |  |          |
| <b>4. NONDESTRUCTIVE TESTING</b>  |            |          |  |          |
| A. CIP WELDES (RISK CAT. II)  | -          | x        | SECTION N5.5, AISC 360-10                                      |          |
| B. CIP WELDES (RISK CAT. III OR IV)   | x          | -        |  |          |
| C. ACCESS HOLES (FLANGE-2")   | x          | -        |  |          |
| D. WELDED JOINTS SUBJECT TO FATIGUE   | x          | -        |  |          |
| <b>5. PRIOR TO BOLTING</b><br>NOT REQUIRED IF ONLY SNUG-TIGHT JOINTS ARE SPECIFIED [PER SECTION N5.6(1) OF AISC 360-10].  |            |          |  |          |
| A. CERTIFICATIONS OF FASTENERS  | x          | -        | TABLE N5.6-1, AISC 360-10                                      |          |
| B. FASTENERS MARKED   | -          | x        |  |          |
| C. PROPER FASTENERS FOR JOINT   | -          | x        |  |          |
| D. PROPER BOLTING JOINT   | -          | x        |  |          |
| E. CONNECTING ELEMENTS  | -          | x        |  |          |
| F. PRE-INSTALLATION VERIFICATION TESTING  | -          | x        |  |          |
| G. PROPER STORAGE   | -          | x        |  |          |
| <b>6. DURING BOLTING</b><br>NOT REQUIRED IF ONLY SNUG-TIGHT JOINTS ARE SPECIFIED [PER SECTION N5.6(1) OF AISC 360-10].<br>NOT REQUIRED FOR PRETENSIONED JOINTS USING TURN-OF-THE-NUT METHOD WITH MATCH-MARKING, DIRECT-TENSION INDICATORS, OR TWIST-OFF TYPE TENSION CONTROL METHOD [PER SECTION N5.6(2) OF AISC 360-10]. |            |          |  |          |
| A. FASTENER ASSEMBLIES  | -          | x        | TABLE N5.6-2, AISC 360-10                                      |          |
| B. SNUG-TIGHT PRIOR TO PRE TENSIONING   | -          | x        |  |          |
| C. FASTENER COMPONENT   | -          | x        |  |          |
| D. PRE TENSIONED FASTENERS  | -          | x        |  |          |
| <b>7. AFTER BOLTING</b>   |            |          |  |          |
| A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS   | x          | -        | TABLE N5.6-3, AISC 360-10                                      |          |
| <b>B. OTHER STEEL INSPECTIONS</b>   |            |          |  |          |
| A. STRUCTURAL STEEL DETAILS   | -          | x        | SECTION N5.7, AISC 360-10;<br>TABLES J8-1 & J10-1, AISC 341-11 |          |
| B. ANCHOR RODS AND OTHER EMBEDMENT'S SUPPORTING STRUCTURAL STEEL  | -          | x        |  |          |
| C. REDUCED BEAM SECTIONS (RBS)  | -          | x        |  |          |
| D. PROTECTED ZONES  | -          | x        |  |          |
| E. H-PILES  | -          | x        |  |          |
| <b>9. STEEL ELEMENTS OF COMPOSITE CONSTRUCTION</b>  |            |          |  |          |
| A. PLACEMENT AND INSTALLATION OF STEEL DECK   | x          | -        | TABLE N6.1, AISC 360-10;<br>TABLES J9-1 THRU J9-3, AISC 341-11 |          |
| B. PLACEMENT AND INSTALLATION OF STEEL RIPPED STUD ANCHORS  | x          | -        |  |          |
| C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENT  | x          | -        |  |          |
| D. REINFORCING MEMBER SIZE  | -          | x        |  |          |
| E. COMPOSITE MEMBER SIZE  | -          | x        |  |          |

**REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (IBC 2015, 1705.3)**

| ITEM   | CONTINUOUS | PERIODIC | REF STD.                                  | IBC REF.                       |
|--|------------|----------|---|--------------------------------|
| 1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.  | -          | x        | ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3 | 1908.4                         |
| 2. REINFORCEMENT BAR WELDING:  | -          | -        | -   | -                              |
| A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;  | -          | -        | AWS D1.1                                  | -                              |
| B. INSPECT SINGLES-PASS FILLET WELDS, MAXIMUM 5/16"; AND   | -          | -        | ACI 318: 26.6.4                           | -                              |
| C. INSPECT ALL OTHER WELDS.  | -          | -        | -   | -                              |
| 3. INSPECT ANCHORS CAST IN CONCRETE.   | -          | x        | ACI 318: 17.8.2                           | -                              |
| 4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.  | -          | -        | -   | -                              |
| A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.   | -          | x        | ACI 318: 17.8.2.4                         | -                              |
| B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.   | -          | -        | ACI 318: 17.8.2                           | -                              |
| 5. VERIFY USE OF REQUIRED DESIGNED MIX.  | -          | x        | ACI 318: CH. 19, 26.4.3, 26.4.4           | 1904.1, 1904.2, 1908.2, 1908.3 |
| 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.              | x          | -        | ASTM C172, ASTM C31, ACI 318: 26.4, 26.12 | 1908.10                        |
| 7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.   | x          | -        | ACI 318: 26.5                             | 1908.6, 1908.7, 1908.8         |
| 8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.  | -          | x        | ACI 318: 26.5.3-26.5.5                    | 1908.9                         |
| 9. INSPECT PRESTRESSED CONCRETE FOR:   | -          | -        | -   | -                              |
| A. APPLICATION OF PRESTRESSING FORCES; AND   | x          | -        | ACI 318: 26.10                            | -                              |
| B. GROUTING OF BONDED PRESTRESSING TENDONS.  | x          | -        | -   | -                              |
| 10. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING TO TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. | -          | x        | ACI 318: 26.11.2                          | -                              |
| 11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.   | -          | x        | ACI 318: 26.11.1.2(B)                     | -                              |

**REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS (IBC 2015, 1705.6)**

| ITEM  | CONTINUOUS | PERIODIC |
|---|------------|----------|
| 1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.            | -          | x        |
| 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.                          | -          | x        |
| 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.  | -          | x        |
| 4. VERIFY PROPER MATERIAL PROPERTIES AND LAYER THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.   | -          | x        |
| 5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUB GRADE AND VERIFY THAT SOILS HAVE BEEN PREPARED PROPERLY. | -          | x        |

**TABLE "A" REINFORCEMENT TENSION LAPS, EMBEDMENT LENGTHS AND HOOK LENGTHS fy = 60000 PSI**

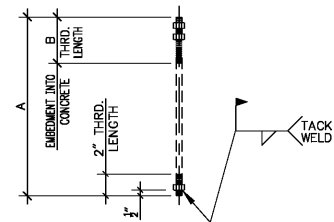
| BAR SIZE | LAP CLASS | SPLICE                     |       | HOOK LENGTH | BAR SIZE | LAP CLASS | SPLICE                     |       | HOOK LENGTH |
|----------|-----------|----------------------------|-------|-------------|----------|-----------|----------------------------|-------|-------------|
|          |           | TOP                        | OTHER |             |          |           | TOP                        | OTHER |             |
|          |           | f <sub>c</sub> = 3,500 PSI |       |             |          |           | f <sub>c</sub> = 4,500 PSI |       |             |
| #3       | A         | 20"                        | 16"   | 8"          | #3       | A         | 18"                        | 14"   | 7"          |
|          | B         | 26"                        | 20"   |             |          | B         | 23"                        | 18"   |             |
| #4       | A         | 27"                        | 21"   | 11"         | #4       | A         | 24"                        | 18"   | 9"          |
|          | B         | 35"                        | 27"   |             |          | B         | 31"                        | 24"   |             |
| #5       | A         | 33"                        | 26"   | 13"         | #5       | A         | 29"                        | 23"   | 12"         |
|          | B         | 43"                        | 33"   |             |          | B         | 38"                        | 29"   |             |
| #6       | A         | 40"                        | 31"   | 16"         | #6       | A         | 35"                        | 27"   | 14"         |
|          | B         | 52"                        | 40"   |             |          | B         | 46"                        | 35"   |             |
| #7       | A         | 58"                        | 45"   | 18"         | #7       | A         | 51"                        | 40"   | 16"         |
|          | B         | 75"                        | 58"   |             |          | B         | 67"                        | 51"   |             |
| #8       | A         | 66"                        | 51"   | 20"         | #8       | A         | 59"                        | 45"   | 18"         |
|          | B         | 86"                        | 66"   |             |          | B         | 76"                        | 59"   |             |
| #9       | A         | 74"                        | 57"   | 23"         | #9       | A         | 66"                        | 51"   | 21"         |
|          | B         | 96"                        | 74"   |             |          | B         | 85"                        | 66"   |             |

| COLUMN SCHEDULE |                 |                            |                        |
|-----------------|-----------------|----------------------------|------------------------|
| MARK            | SIZE            | BASE PLATE                 | ANCHOR BOLTS           |
| C1              | HSS 5 x 5 x 3/4 | 3/4" x 11" x 0'-11"        | 4 - 3/4"Ø              |
| C2              | HSS 6 x 6 x 3/4 | 3/4" x 12" x 1'-0"         | 4 - 3/4"Ø              |
| C3              | HSS 6 x 6 x 3/8 | 3/4" x 12" x 1'-0"         | 4 - 3/4"Ø              |
| C4              | HSS 6 x 6 x 3/4 | 3/4" x 12" x 1'-0"         | 4 - 3/4"Ø              |
| C5              | HSS 6 x 6 x 3/2 | 3/4" x 12" x 1'-0"         | 4 - 3/4"Ø              |
| C6              | HSS 6 x 6 x 3/8 | 3/4" x 12" x 1'-0"         | 4 - 3/4"Ø              |
| SC1             | HSS 4 x 4 x 3/4 | EMBED PLATE 1/2" x 8" x 8" | 4 - 1/2"Ø STUD ANCHORS |
| SC2             | HSS 6 x 6 x 3/4 | 3/4" x 12" x 1'-0"         | 4 - 3/4"Ø              |

**NOTES FOR USE WITH TABLE "A"**

- LENGTHS SHOWN CONFORM WITH NON-SEISMIC PROVISIONS OF ACI 318-02 FOR UNCOATED BARS NOT ENCLOSED BY CLOSELY SPACED SPIRALS OR TIES. DEVELOPMENT OF REINFORCEMENT NOT COVERED BY THE TABLE SHALL CONFORM WITH ACI 318-02.
- BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS TWO BAR DIAMETERS WHEN ALL BARS ARE LAPPED AT THE SAME LOCATION. WHEN BAR LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME LOCATION, THE BAR CLEAR SPACING IS TWICE THE CENTER TO CENTER BAR SPACING MINUS TWO BAR DIAMETERS. WHEN ALL BARS ARE EMBEDDED AT THE SAME LOCATION, THE BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS ONE BAR DIAMETER.
- CLASS A LAP LENGTHS APPLY WHEN BAR LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME LOCATION OR WHEN BARS ARE LAPPED AT A LOCATION OF MINIMUM STRESS IN THE BARS.
- LAP AND EMBEDMENT LENGTHS SHOWN APPLY WHEN BAR MINIMUM CONCRETE COVER OVER BARS CONFORMS WITH VALUES GIVEN IN THE TABLE FOR "CONCRETE COVER". THESE COVER VALUES CONFORM WITH ACI 318-02.
- CLASS A LAP AND EMBEDMENT LENGTH HAVE SAME VALUE.
- CLASS B LAP LENGTHS APPLY WHEN ALL BARS ARE SPLICED AT A LOCATION OF MAXIMUM STRESS IN THE BARS.
- HOOK LENGTH GIVEN IS THE STRAIGHT LINE DISTANCE FROM THE LOCATION OF MINIMUM STRESS IN BAR TO THE OUTSIDE END OF THE HOOK. MULTIPLY LENGTHS GIVEN BY 0.7 FOR HOOKS WITH SIDE COVER NORMAL TO THE HOOK. NOT LESS THAN 2 1/2 INCHES AND FOR 90 DEGREE HOOK COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCHES.
- TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 1/4 THICKNESS OF CONCRETE IS CAST BELOW THE REINFORCEMENT.
- MULTIPLY LAP AND EMBEDMENT LENGTHS GIVEN BY 2.0 FOR BARS WITH CLEAR SPACING OF TWO BAR DIAMETERS OR LESS OR CONCRETE COVER OF ONE BAR DIAMETER OR LESS.
- MINIMUM CONCRETE COVER FROM FACE OF MEMBER TO EDGE OF BAR SHALL NOT BE LESS THAN TWO AND ONE HALF BAR DIAMETERS.

| MARK | SIZE               | REINFORCEMENT                       |
|------|--------------------|-------------------------------------|
| F1   | 4'-0"x5'-0"x1'-6"  | #5 @ 6" O.C. EA. WAY @ BOTTOM       |
| F2   | 5'-0"x5'-0"x1'-6"  | #5 @ 6" O.C. EA. WAY @ BOTTOM       |
| F3   | 5'-0"x5'-0"x1'-6"  | #5 @ 6" O.C. EA. WAY @ TOP & BOTTOM |
| F4   | 6'-0"x5'-0"x1'-6"  | #5 @ 6" O.C. EA. WAY @ BOTTOM       |
| F5   | 6'-0"x5'-0"x1'-6"  | #5 @ 6" O.C. EA. WAY @ TOP & BOTTOM |
| F6   | 7'-0"x7'-0"x2'-0"  | #5 @ 6" O.C. EA. WAY @ TOP & BOTTOM |
| F7   | 8'-0"x8'-0"x2'-0"  | #5 @ 6" O.C. EA. WAY @ TOP & BOTTOM |
| F8   | 8'-0"x5'-0"x2'-0"  | #5 @ 6" O.C. EA. WAY @ TOP & BOTTOM |
| F9   | 12'-0"x8'-0"x2'-0" | #5 @ 6" O.C. EA. WAY @ TOP & BOTTOM |

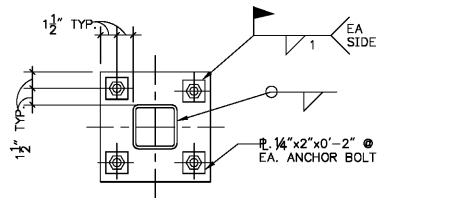


**TYP. ANCHOR BOLTS**  
N.T.S.

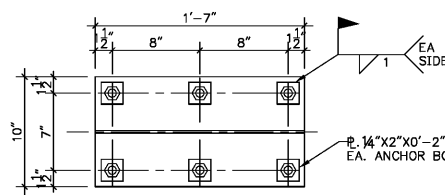
- NOTES:-  
1. ALL ANCHOR BOLTS TO BE SUPPLIED WITH 3 NUTS.  
2. ANCHOR BOLTS SHALL BE ASTM F1554 GR 55.

| ANCHOR BOLTS |       |    |
|--------------|-------|----|
| DIAMETER     | A     | B  |
| 3/4"         | 1'-6" | 6" |

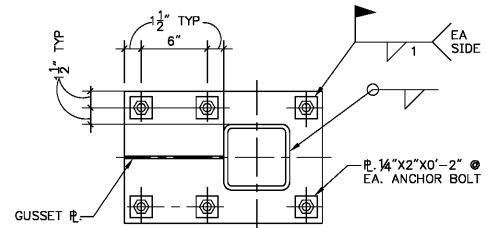
| HEADER BEAM SCHEDULE |   |                   |
|----------------------|---|-------------------|
| MARK                 | SIZE  | DETAIL            |
| H1                   | 6'-16 GA. STEEL "C" STUDS W/ 6'-16 GA. STUD TRACKS (TOP & BOTTOM) | DETAIL 4 & 5/S5.0 |



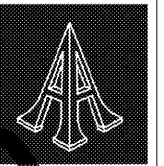
**TYPICAL BASE PL. DETAIL**  
1 1/2" = 1'-0"



**WT7X30.5 BASE PL. DETAIL AT DIAGONAL BRACE (D.B.)**  
1 1/2" = 1'-0"



**BASE PL. DETAIL AT BRACE COLUMN**  
1 1/2" = 1'-0"



406 483 3464  
Fax 406 483 3463  
937 East Ribbon Road  
Chickasha City, OK 73114  
pasc@earthlink.net

Pascal Aughtry & Associates, PC



05/24/2018  
SAT JOB #18405

**A NEW TRAVEL STOP**  
STORE No. 735  
CALHOUN, GA



| Revisions: |      |
|------------|------|
| No.        | Date |
|            |      |
|            |      |

Project No.: LVS18735  
Date: 01/18/2018  
Sheet No.:

**S0.1**  
SCHEDULES & TABLES  
OF: