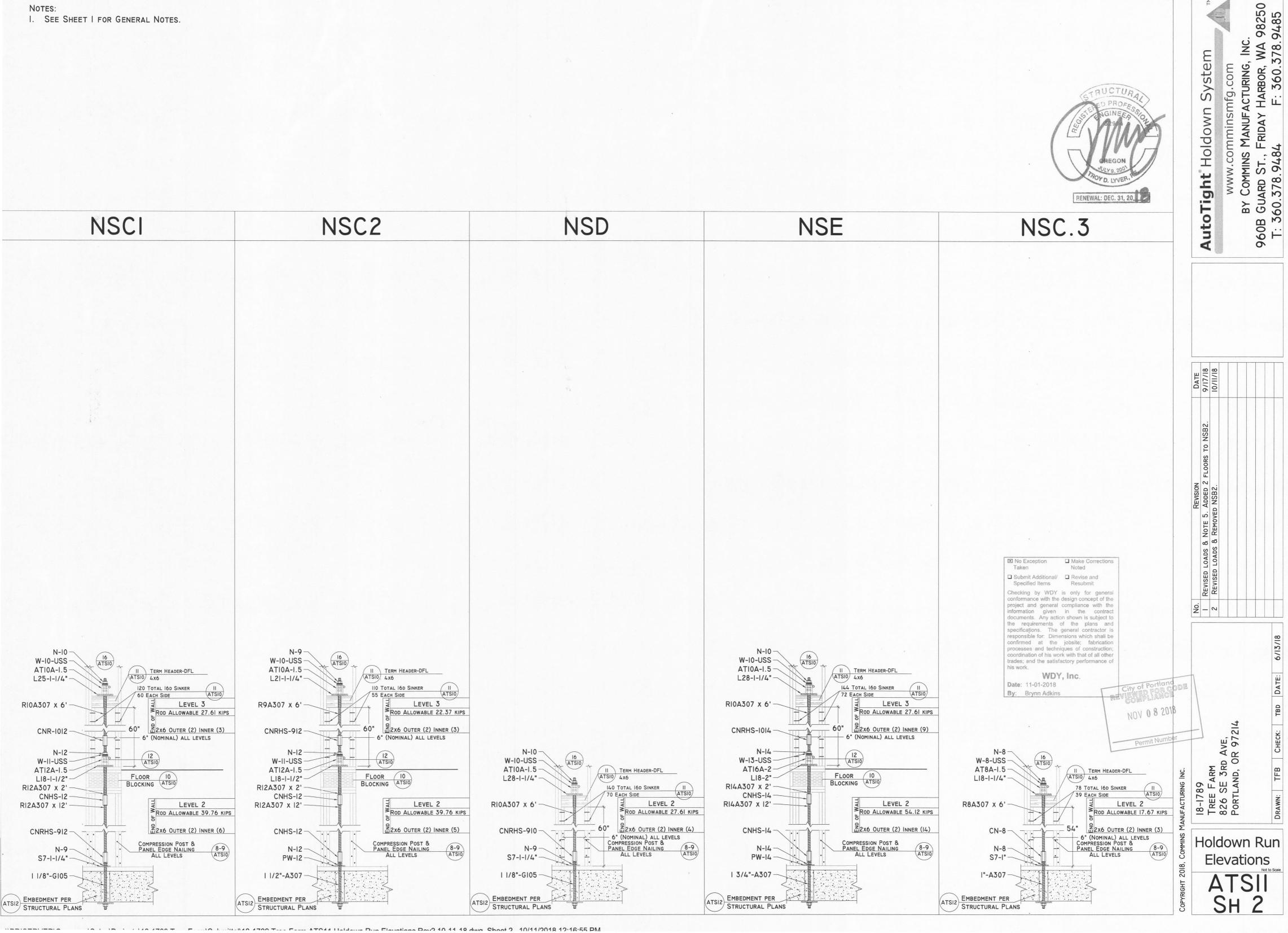


10 1 10 Details 200 To Fermi Och mittell 40 4700 To Ferm ATO40 Haldown Dun Details Doud 0.04 18 dwg. Oregon 2014 8/3/2018 0:35:55 AM

NOTES: AT SUBSTITUTION NOTES: 98250 1. INSTALL ALL AT'S WITH ACTIVATION PINS, WITH ACTIVATION PIN END UP. INSTALL ALL AT'S WITH ACTIVATION SCREWS WITH THE ACTIVATION SCREW END DOWN. I. ANY AT SPECIFIED MAY BE REPLACED WITH ANY OTHER AT THAT HAS A LOAD RATING 2. ANY BEARING PLATE SPECIFIED MAY BE REPLACED WITH ANY BEARING PLATE THAT HAS AN EQUAL OR HIGHER LOAD RATING AND COMPATIBLE ROD DIAMETER. EQUAL TO OR HIGHER THAN THE LOAD REQUIRED, TAKE-UP TRAVEL EQUAL TO OR HIGHER 3. EOR MUST VERIFY THAT ALL L TYPE (WIDE) PLATES ARE LOCATED IN 6X OR WIDER WALLS. THAN THE SHRINKAGE REQUIRED AND IS COMPATIBLE WITH THE ROD DIAMETER. 4. COMPRESSION POSTS ARE PER COMPRESSION LOADS ON PLANS S702. 2. AT8A MAY BE REPLACED WITH AT 100 OR AT10A AT SUPPLIER'S DISCRETION. BY COMMINS MANUFACTURING, INC. GUARD ST., FRIDAY HARBOR, WA 5. COMPRESSION POST SIZES & COUNTS ARE FOR ALL STRUCTURAL LOADS. EOR MUST VERIFY. 3. ATIOA MAY BE REPLACED WITH ATI2A OR AT 125 AT SUPPLIER'S DISCRETION. System 6. COMPRESSION POSTS MAY BE ARRANGED AS DESIRED BY THE BUILDER AS LONG AS: 4. ATI2A MAY BE REPLACED WITH ATI6A OR AT 200 AT SUPPLIER'S DISCRETION. A. THE TOTAL POST QUANTITY IS THE SAME AS OR GREATER THAN THE QUANTITY LISTED HERE. 5. ATIGA MAY BE REPLACED WITH ATIZA OR AT 200 AT SUPPLIER'S DISCRETION. B. AND THERE IS AT LEAST I POST ON EACH SIDE OF EACH ROD. C. COMPRESSION POST WOOD SPECIES & GRADE IS DFL #2 OR BETTER. D. COMPRESSION POST LENGTHS SHOWN IN SCHEDULE ARE FOR CALCULATION PURPOSES ONLY. FRAMER IS RESPONSIBLE FOR ACTUAL POST LENGTHS. E. COMPRESSION POST NAIL COUNT IS TOTAL FOR THE WHOLE LAMINATED STACK. AutoTight Holdown 7. IF A BEARING PLATE IS LONGER THAN THE SPACE BETWEEN POSTS IT IS PERMISSABLE TO ADJUST POST SPACING TO LAND FULLY ON OR FULLY BESIDE THE BEARING PLATES. OR, TO SHIM OR NOTCH PLATES PER ATSIO DETAIL 20. 8. CONCRETE ANCHOR RODS SHALL EXTEND IO" MINIMUM ABOVE CONCRETE U.N.O. 9. ISOLATOR BUSHINGS ARE NOT REQUIRED IF BORATE IS USED TO PRESSURE TREAT SILL PLATES. 10. INSTALL TERM HEADER FLAT TO FILL WALL WIDTH. DO NOT NAIL. IT NEEDS TO FLOAT AS BUILDING SHRINKS AND SETTLES II. WHEN 12' ROD AND 2' ROD ARE ON THE SAME FLOOR OF THE SAME RUN, THEIR POSITIONS MAY BE SWITCHED AT THE INSTALLER'S OPTION. 12. IN MOST CASES EACH SHEAR WALL IS SECURED BY THE HARDWARE FROM THE FLOOR ABOVE ACTING THROUGH FLOOR PLATES AND BEARING BLOCKS. EXCEPTION: MID-FLOOR TERMINATIONS (OFTEN THE TOP FLOOR) IS SECURED THROUGH A TERMINATION HEADER AND NAILED TRIMMER STUDS 13. THIS DRAWING IS NOT TO SCALE. 14. ROD DIAMETER IS DESIGNATED BY THE NUMBER AFTER R IN THE PART NAME IN 1/8TH'S OF AN INCH. I.E. R5=5/8" AND RIO=1-1/4". 15. LOADS ARE DESIGNATED IN ASD. 960B T: 36 EW2AB EW6 EW6.5 NSBI REVISED LOADS & NOTE 5. ADDED 2
REVISED LOADS & REMOVED NSB2. ☑ No Exception ■ Make Corrections ☐ Submit Additional/ ☐ Revise and Checking by WDY is only for general conformance with the design concept of the N-9-N-12 -N-10 project and general compliance with the W-10-USS -W-10-USS -PW-12 -W-10-USS documents. Any action shown is subject to ATI0A-1.5 ATI0A-1.5 AT16A-2-ATI0A-1.5 the requirements of the plans and specifications. The general contractor is TERM HEADER-DFL TERM HEADER-DFL TERM HEADER-DFL TERM HEADER-DFL ATSIO 4x6 ATSIO 4x6 ATSIO 4x6 L25-I-I/4"-ATSIO 4x6 L33-I-I/2" L25-I-I/4" -L21-1-1/4" responsible for: Dimensions which shall be 120 TOTAL 16D SINKER 158 TOTAL 16D SINKER 124 TOTAL 16D SINKER confirmed at the jobsite; fabrication 60 EACH SIDE 53 EACH SIDE 62 EACH SIDE processes and techniques of construction coordination of his work with that of all other LEVEL 3 RI0A307 x 6' R9A307 x 6 LEVEL 3 RI2A307 x 6 LEVEL 3 RI0A307 x 6' LEVEL 3 trades; and the satisfactory performance of ROD ALLOWABLE 27.61 KIPS NOD ALLOWABLE 22.37 KIPS NOD ALLOWABLE 39.76 KIPS NOD ALLOWABLE 27.61 KIPS 18-1789 TREE FARM 826 SE 3RD AVE, PORTLAND, OR 97214 WDY, Inc. 70" ₹ 2x6 OUTER (2) INNER (8) 60" \(\overline{\overline{\text{\tin}\ext{\tin}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}}\\ \text{\texi}\text{\text{\text{\tex{\texi}\text{\text{\text{\text{\texi}\text{\texi}\text{\text{\texi}\tinz{\text{\texi}\tinz{\text{\text{\text{\texi}\tint{\text{\t 60" 60" Z2x6 OUTER (2) INNER (5) CNR-1012 -CNR-1012 -Date: 11-01-2018 CNRHS-912 **CNRHS-1214** 6" (NOMINAL) ALL LEVELS 6" (NOMINAL) ALL LEVELS 6" (NOMINAL) ALL LEVELS 6" (NOMINAL) ALL LEVELS N-12 -N-12 -N-12 N-14 I2 ATSI0 I2 ATSI0 W-II-USS W-II-USS W-13-USS-W-II-USS-ATSIO (ATSIO ATI2A-1.5 ATI6A-2-ATI2A-1.5 -ATI2A-1.5 -NOV 0 8 2018 FLOOR 10
BLOCKING ATSIO FLOOR 10
BLOCKING ATSIO FLOOR (10 FLOOR L18-1-1/2" L18-1-1/2" -L18-1-1/2" L20-2" BLOCKING ATSIO BLOCKING ATSIO BLOCKING RI2A307 x 2' RI2A307 x 2' RI2A307 x 2' RI4A307 x 2' CNHS-12 CNHS-12 CNHS-12 CNHS-14 RI2A307 x 12' LEVEL 2 RI2A307 x 12' LEVEL 2 LEVEL 2 RI2A307 x 12' LEVEL 2 RI4A307 x 12' 18-TR 82 PC NOD ALLOWABLE 39.76 KIPS ROD ALLOWABLE 39.76 KIPS NOD ALLOWABLE 54.12 KIPS ROD ALLOWABLE 39.76 KIPS 2x6 OUTER (2) INNER (6) \(\overline{\text{Z}}\) 2x6 OUTER (2) INNER (6) ☐ 2x6 OUTER (2) INNER (8) 五2x6 OUTER (2) INNER (12) CNRHS-912 -CNRHS-912 -CNRHS-1014 CNHS-12 Holdown Run COMPRESSION POST & PANEL EDGE NAILING ALL LEVELS COMPRESSION POST & COMPRESSION POST & 8-9 ATSI0 PANEL EDGE NAILING PANEL EDGE NAILING
ALL LEVELS N-12-PANEL EDGE NAILING
ALL LEVELS N-10 -ALL LEVELS S7-I-I/4" -S7-I-I/4" -Elevations PW-12 -S7-I-I/4" -1 1/8"-G105 -1 1/8"-G105 -1 1/2"-A307 1 1/4"-G105-EMBEDMENT PER EMBEDMENT PER RENEWAL: DEC. 31, 20 EMBEDMENT PER EMBEDMENT PER STRUCTURAL PLANS STRUCTURAL PLANS STRUCTURAL PLANS STRUCTURAL PLANS

I. SEE SHEET I FOR GENERAL NOTES.





Anchor Bolt Embedment Notes

Anchor Bolt Embedment Design:

- 1. Anchor Bolt Embedment Design conforms to the 2012 IBC & OSSC 2014.
- Required loads and system requirements are per Final Shear Wall Layout Structural Plan Set S702 dated 03/23/2018.
- 3. Concrete strength is 3,500 psi.
- 5. Fabrication shall meet the requirements and specifications per Structural Plan general notes.6. Embedment Rod strengths per ATS10 Table 1h.
- 7. Drawing is not to scale.

 8 Fabrication shall meet the requirements and
- 8. Fabrication shall meet the requirements and specifications per Structural Plan general notes.

Anchor Bolt Installation:

- Contractor/installer shall verify anchor bolt size, thread pitch and material for correct location per structural plans and AutoTight holdown run layout sheet(s) ATS11.
- 2. Anchor Bolt location relative to the end of the shear wall shall be per ATS10 Details 4 and 6.
- 3. Anchor bolt shall be 10" minimum above concrete slab (U.N.O.).

Holdown System Design:

- For system design see Holdown Run Details (ATS10), Holdown Run Elevations (ATS11), and Structural Drawing S702.
 Defer to Structural Plans.
- 3. Fabrication shall meet the requirements and specifications per structural plan general notes.

Shop Drawing Disclaimer

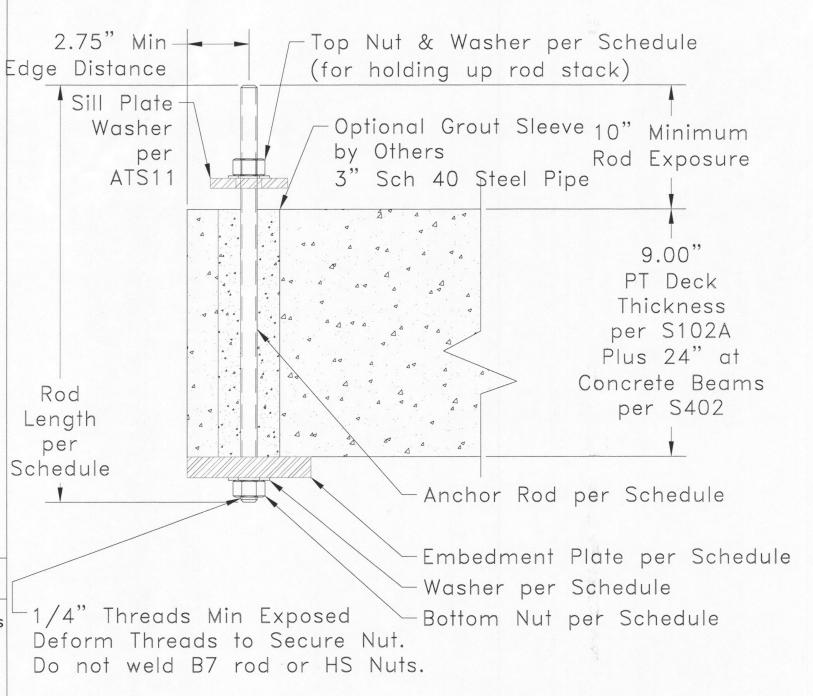
This design uses the construction plans and calculations provided by the Engineer of Record. No Attempt has been made on the part of Commins Manufacturing, Inc. to verify the values given in the calculations or design described by the construction drawings.

The Engineer of Record is responsible for the structural design of the building and the ability of the design to transfer load imparted to the structure by the holdown system.

Structural Engineer of Record

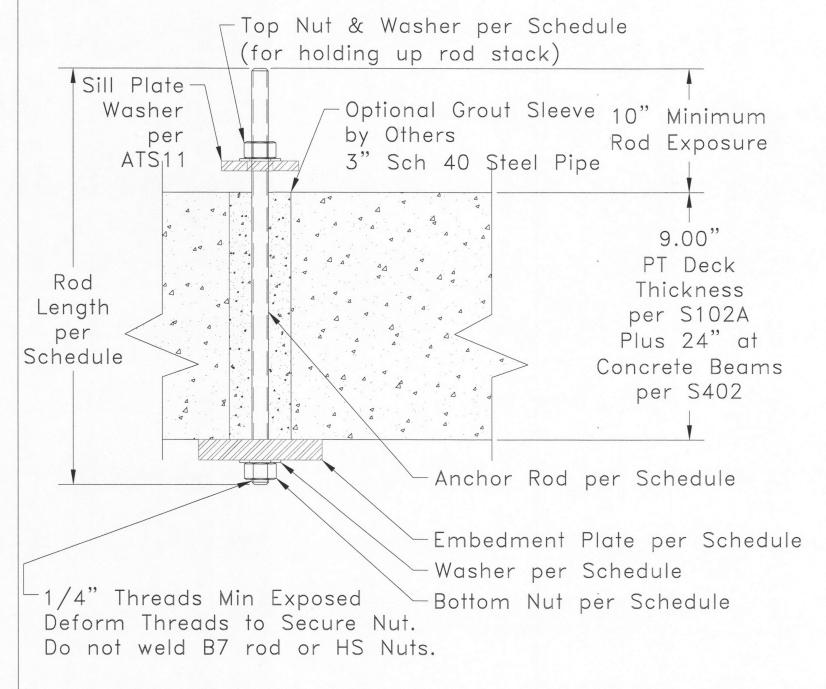
WDY Greg Munsell 6443 SW Beaverton- Hillside Hwy ste 210 Portland, OR 97221 503-203-8111

Slab Edge Condition Anchor



Concrete and Rebar per Structural Plans S102A

Slab Interior Anchor



AutoTight Anchor Bolt Embedment Schedule Bottom Top Embedment Plate Size Run Name Rod Washer Nut Nut $EP-10C = 1"x5"x5"x1-\frac{1}{16} HOC$ R8A307 x 36" 8-WNSC.3 N-8N-8 $EP-10C = 1"x5"x5"x1-\frac{3}{16} HOC$ R9G105 x 24" NHS-9EW6.5 N-9W-9 $EP-10C = 1"x5"x5"x1-\frac{3}{16} HOC$ NSB1, NSC1, NSD R9G105 x 36" NHS-9W-9N-9 $EP-10C = 1"x5"x5"x1-\frac{5}{16} HOC$ EW6, NSB2 R10G105 x 36" NHS-10N - 10W - 10 $EP-12 = 1" \times 5" \times 5" \times 1 - \frac{9}{16} HOC$ EW2ab, NSC2 R12A307 x 36" N - 12W - 12N - 12EP-14 = 1"x5"x5"x1-13/16 HOCR14A307 x 48" NSE N - 14N - 14W - 14

Notes:

- 1. This drawing is only to show the Arrangement of the Autotight Components.
- 2. All concrete calculations are the responsibility of the EOR.
- 3. All Rods are black unfinished steel.
- 4. Field verify concrete depths at all locations. Consider Drop Caps, Drop Soffits Wall below etc.
- 5. Anchor rods are to be located by means of template. Anchor rods shall not be hand set or wet set.
- 6. Wire embedment securely to rebar to prevent motion during concrete pour.
- 7. OK to field cut rod to reduce lift-over. Do not violate minimum rod exposure.

No Exception
 Taken
 Taken

Concrete and Rebar

per Structural Plans S102A

☐ Make Corrections

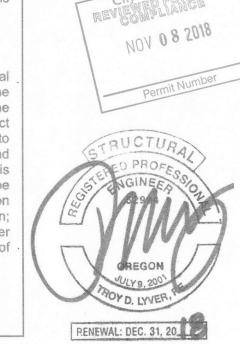
☐ Revise and

☐ Submit Additional/ Specified Items

By: Brynn Adkins

Checking by WDY is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. The general contractor is responsible for: Dimensions which shall be confirmed at the jobsite; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of

WDY, Inc. Date: 11-01-2018



AutoTight Holdown System

www.comminsmfg.com

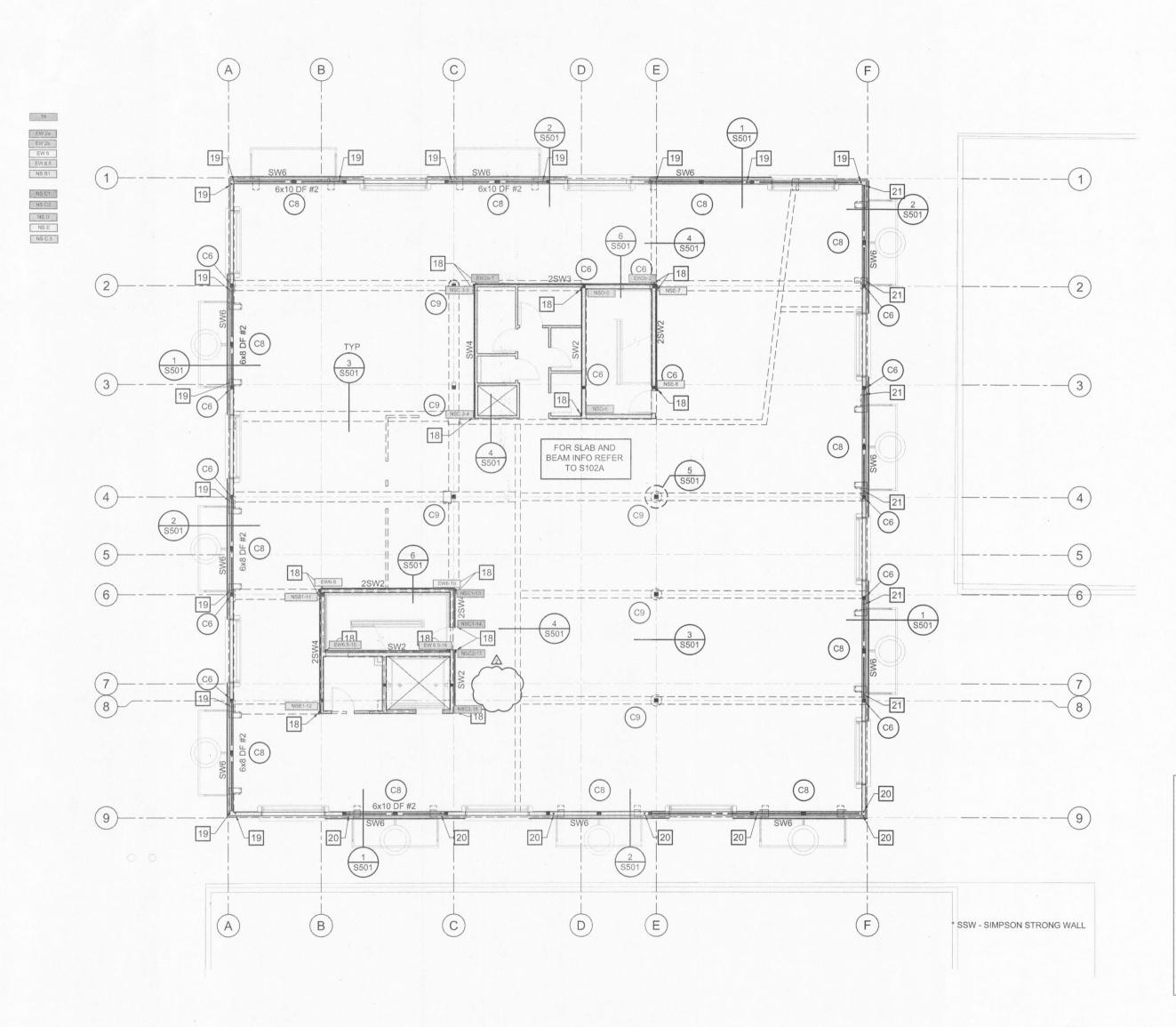
by Commins Manufacturing, Inc.
960B Guard St., Friday Harbor, WA 98250
T: 360.378.9484 F: 360.378.9485

Revision Date

18-1789 Tree Farm 826 SE 3rd Ave, Portland, OR 97214

Anchor Bolt Details

ATS12



18-1789 Tree Farm 826 SE 3rd Ave, Portland, OR 97214

> AutoTight Tie-Down System **Run Locator**

10/11/18

Rev 1

The Run Location overlay seen on this sheet were placed by:

Commins

Manufacturing, Inc.
These plans originally generated by:

WDY Consulting Eng

Page number of original plans for reference:

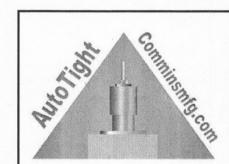
S102 03/23/18

☐ Submit Additional/ ☐ Revise and Specified Items

Checking by WDY is only for general

conformance with the design concept of the project and general compliance with the documents. Any action shown is subject to the requirements of the plans and specifications. The general contractor is responsible for: Dimensions which shall be confirmed at the jobsite; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of

WDY, Inc. Date: 11-01-2018 By: Brynn Adkins



Commins Manufacturing, Inc. 960B Guard Street Friday Harbor, WA 98250 360-378-9484 Comminsmfg.com Autotight@comminsmfg.com

AutoTight® by Commins Manufacturing Continuous Rod Tie-Down System Run Locator Sheet

1 SECOND FLOOR FRAMING PLAN S102 1/8" = 1'-

The Purpose of the Run Locator Sheet is to determine the tie-down Run type needed for a particular shear wall location.

The marking in the colored icons contain the run types found on the sheets AT11, and run ID numbers.

Example: 5A-123 = Run 5A..... ID number 123

This in NOT a dimensional layout to determine where the run will be located in the wall. Wall layout is the responsibility of others.

