

## BID ATTACHMENT 5

## Maint-Ops Building

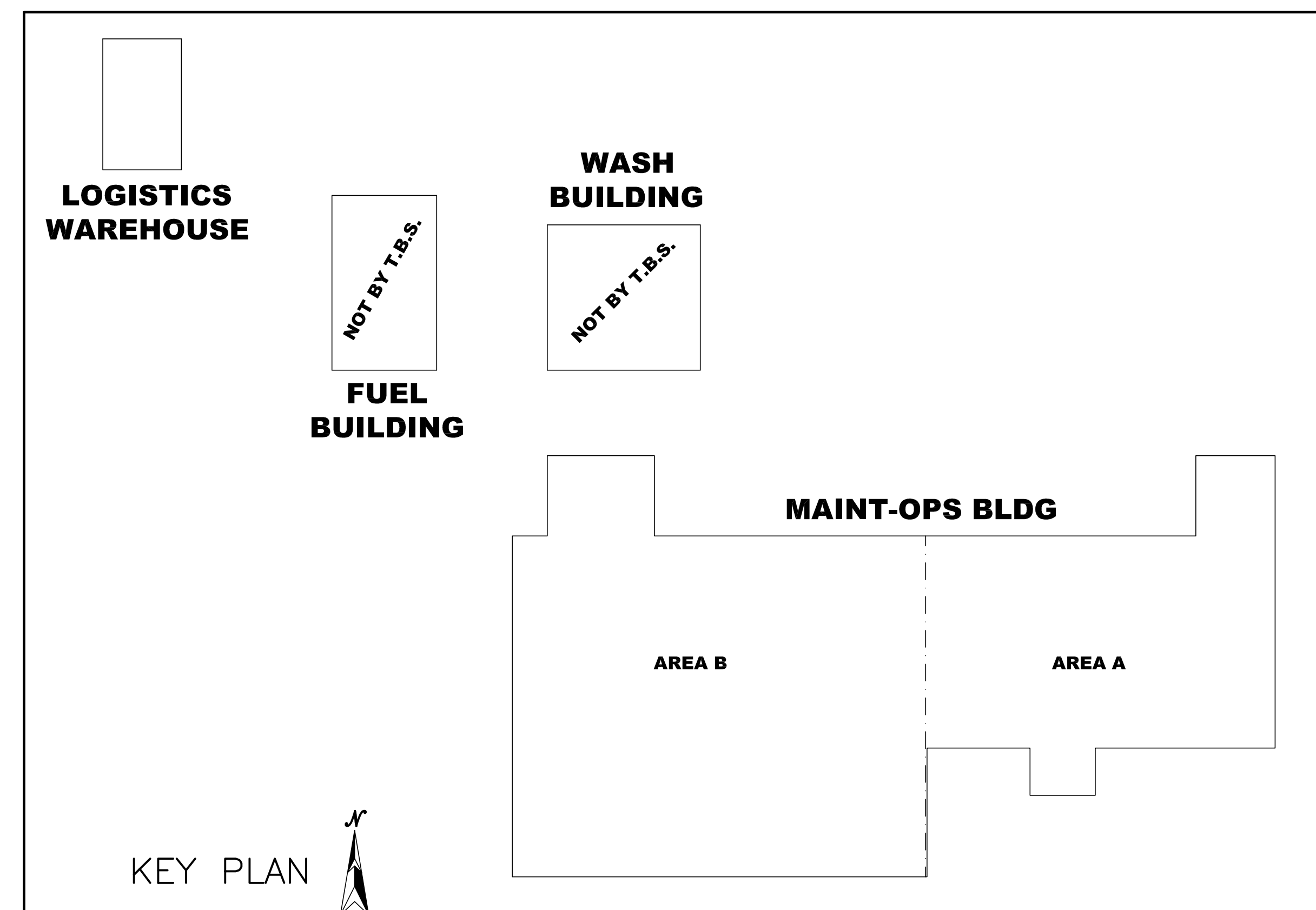
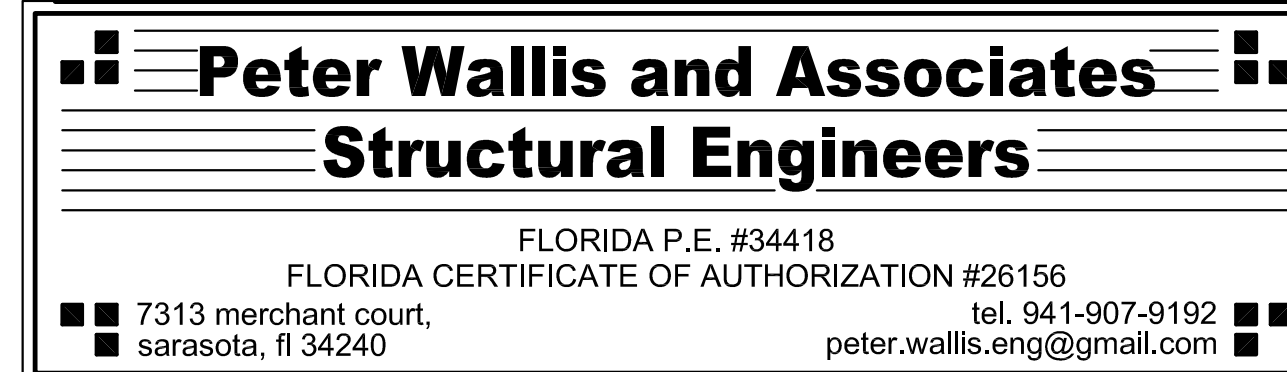
**Bradenton, Florida**  
**Willis Smith Construction**  
**15-011-07**



BUILDING SYSTEMS, INC.

2812 Tallevast road \* Sarasota, Florida 34243

Phone: 941-755-7073 \* Fax: 941-755-3067



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**FOR CONSTRUCTION  
SEPTEMBER 7, 2015**

DESIGN PROVIDED BY :  
PETER WALLIS  
FLORIDA P.E. #34418

FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE RESPONSIBLE SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

| REVISIONS |                                                                |                |
|-----------|----------------------------------------------------------------|----------------|
| A         | FOR APPROVAL                                                   | 3.10.15<br>TDB |
| B         | REVISED FOR APPROVAL                                           | 3.26.15<br>TDB |
| 1         | FOR CONSTRUCTION<br>AREA B<br>PRIMARY & SECONDARY ONLY         | 7.10.15<br>TDB |
| 4         | REVISED FOR CONSTRUCTION<br>AREA A<br>PRIMARY & SECONDARY ONLY | 8.10.15<br>TDB |
| 6         | REVISED FOR CONSTRUCTION                                       | 8.24.15<br>TDB |
| 8         | FOR CONSTRUCTION                                               | 9.7.15<br>TDB  |
|           |                                                                |                |
|           |                                                                |                |
|           |                                                                |                |

**Manatee County Transit Fleet Facility**  
**Maint-Ops Building**  
**15-011-07**

ABBREVIATIONS:

Abbreviations are not case sensitive.

Standard AISC designations and abbreviations, plus:

- a angle
- AB Anchor Bolt
- Arch Architect
- cant cantilever
- c-c Center to Center
- clr clear, clearance
- cmu Concrete Masonry Unit
- col column
- conc concrete
- conn connection
- cont continuous
- dia diameter
- dim dimension
- dist distance
- DL Dead Load
- dwg drawing
- ea each
- e1 elevation (height)
- elev elevation (drawing view)
- emb embed, embedded, embedment
- EOR Engineer Of Record
- eq(=) equal
- ew End Wall
- fab fabrication, fabricate
- ga gage, gauge
- galv galvanized
- GC General Contractor
- hd wash hardened washer
- hex hexagonal
- hgt height
- horz horizontal
- HSS Tube Steel (round)
- id Inside Dimension
- ksi Kips per Square Inch
- lf Linear Feet
- LL Live Load
- LLH Long Leg Horizontal
- LLV Long Leg Vertical
- matl material
- mtl metal
- oal Over All Length
- oc On Center
- od Outside Dimension
- oh OverHang
- o-o Outside to Outside
- PEMB Pre-Engineered Metal Building
- psf Pounds per Square Foot
- qty quantity
- ref reference
- rev revision
- rtu Roof Top Unit
- scr screw
- sht sheet metal
- sim similar
- sp space, spacing, spaced
- spec specification
- s'ss stainless steel
- t/b Top and Bottom
- TBD To Be Determined
- TBS Trident Building Systems, Inc.
- TC Tension Control
- tmp temporary
- ts Tube Steel
- um Universal Mill plate
- uno Unless Noted Otherwise
- vert vertical
- w/ with
- w/o without
- WL Wind Load

GENERAL NOTES:

CUSTOMER, PLEASE USE A RED PEN TO MAKE ALL CHANGES AND / OR ANNOTATIONS TO THE APPROVAL DRAWINGS.

ALL PRIMARY FRAMING TO HAVE TRIDENT BUILDING SYSTEMS STANDARD SSPC-15 GRAY PRIMER WITH SSPC-SP2 PREP.

IT IS NOT A STANDARD IN THE PRE-ENGINEERED METAL BUILDING INDUSTRY TO SUBMIT DRAWINGS TO SCALE. NOTHING SHOULD BE SCALED OFF OF THE APPROVAL/PERMIT/CONSTRUCTION DRAWINGS. IF A DIMENSION NEEDS TO BE ADDED OR CLARIFIED PLEASE MARK UP THE APPROVAL DRAWINGS ACCORDINGLY.

ANCHOR BOLTS PROVIDED BY T.B.S..

STOREFRONT, WINDOWS, FANS, DOORS AND LOUVERS NOT PROVIDED BY T.B.S.

ALL HIGH STRENGTH BOLTS, NUTS, & WASHERS (A325) TO BE HOT DIPPED GALVANIZED.

PANEL NOTES:

RUN-OFF WATER FROM METAL ROOF SYSTEM IS NOT POTABLE AND SHALL NOT BE UTILIZED FOR HUMAN CONSUMPTION.

WHEN HANDLING GALVALUME PANELS, WEAR GLOVES TO PREVENT DISCOLORING PANELS.

WHEN WALKING ON GALVALUME PANELS, WEAR SOFT SOLED SHOES TO PREVENT MARRING PANELS.

WHEN ERECTING ROOF PANELS ARRANGE AND NEST SIDELAP JOINTS SO THAT PREVAILING WINDS BLOW OVER AND NOT INTO LAPPED JOINTS.

EXTREME CARE MUST BE EXERCISED DURING ERECTION OF ROOF PANELS AND TRIM. FOOT TRAFFIC MAY RESULT IN PERMANENT PANEL DISTORTION AND FINISH ABRASION.

"OIL-CANNING" OF PANELS IS NOT A CAUSE FOR REJECTION.

ALL PANEL FASTENERS TO BE STAINLESS STEEL.

SURLOK PANELS:

TRIDENT BUILDING SYSTEMS IS USING LOW FLOATING CLIPS ON THIS PROJECT. WHEN USING MORE THAN 4" OF INSULATION A HIGH CLIP MUST BE USED.

SURLOK PANELS DO REQUIRE FIELD SEAMING.

SURLOK METAL INSIDE CLOSURES ARE UNPAINTED GALVALUME.

SURLOK ROOF PANELS HAVE FACTORY APPLIED MASTIC AT THE PANEL SIDELAPS.

R PANELS:

R PANELS DO NOT ALLOW FOR THERMAL EXPANSION-CONTRACTION. PANELS ARE ATTACHED TO THE SUBSTRUCTURE WITHOUT CLIPS.

REVERSE ROLL R PANEL:

REVERSE ROLL R PANELS DO NOT ALLOW FOR THERMAL EXPANSION-CONTRACTION. PANELS ARE ATTACHED TO THE SUBSTRUCTURE WITHOUT CLIPS.

KALWALL TRANSLUCENT PANELS:

TRIM NOTES:

FIELD MITER TRIM AT CORNERS AS REQUIRED.

DOWNSPOUTS TO BE FIELD CUT, MITERED AND SEALED.

NO FACTORY MITERING OF TRIM IS PROVIDED. ALL TRIM THAT REQUIRES MITERING MUST BE ACCOMPLISHED IN THE FIELD.

BEFORE APPLYING URETHANE SEALANT TO BARE GALVALUME, THE OILY FILM MUST BE REMOVED. PLEASE FOLLOW THE MANUFACTURERS INSTRUCTIONS.

CONNECTIONS OF DOWNSPOUTS TO UNDERGROUND NOT PROVIDED BY TRIDENT BUILDING SYSTEMS.

CONCEALED TRIM TO BE GALVALUME.

ALL TRIM FASTENERS TO BE STAINLESS STEEL.

SUBSTRATE NOTES:

ALL PURLINS, GIRTS AND EAVE STRUTS CONFORM TO ASTM A-1011 WITH 55,000 PSI MINIMUM YEILD STRENGTH.

ALL PURLINS, GIRTS AND EAVE STRUTS TO BE G60 GALVANIZED AND ALSO INCLUDING TRIM ANGLES, CLIPS AND SUBFRAMING COMPONENTS.

PURLINS WILL NOT BE NOTCHED AND BEVEL CUT ENDS WILL NOT BE PROVIDED.

ALL FRAMING FOR ROOF CURBS IS NOT BY TRIDENT BUILDING SYSTEMS.

WALL INSULATION IS 3 1/2" VRR+ FACED FIBERGLASS.

ROOF INSULATION IS 6" VRR+ FACED FIBERGLASS WITH FALL PROTECTION.

EAVE STRUTS ARE DETAILED AS SIMPLE SPAN.

PURLINS ARE DETAILED AS CONTINUOUS.

PURLINS IN EAVE EXTENSIONS ARE DETAILED AS SIMPLE SPAN.

1/2"Ø x 1 1/4" A307 GALVANIZED BOLTS WITH NUTS ARE PROVIDED FOR ATTACHMENT OF THE PURLINS, EAVE STRUTS, AND GIRTS TO THE BUILDING STRUCTURE, UNLESS NOTED OTHERWISE.

ROOF CURB NOTES:

ALL PREFABRICATED CURBS AND RELATED TRIMS - NOT BY TRIDENT BUILDING SYSTEMS.

THE USE OF ANY ROOF CURBS MUST BE PRE-APPROVED BY TRIDENT BUILDING SYSTEMS PRIOR TO INSTALLATION.

IT IS THE CUSTOMERS RESPONSIBILITY TO INFORM TRIDENT BUILDING SYSTEMS OF THE NUMBER AND LOCATION OF ROOF CURBS TO BE INSTALLED ON THE TRIDENT BUILDING SYSTEM ROOF.

ROOF CURB LOCATIONS ARE NECESSARY TO DETERMINE THE PROPER ROOF PANEL LENGTHS AT THESE AREAS.

IT IS THE CUSTOMERS RESPONSIBILITY TO PROVIDE ALL ROOF TOP UNIT EXACT MEASUREMENTS, LOCATIONS, AND WEIGHTS TO ENSURE PROPER SUPPORT.

ERECTOR NOTES:

THESE DRAWINGS SHOULD BE USED IN CONJUNCTION WITH TRIDENT BUILDING SYSTEM'S ERECTION MANUAL. HOWEVER, THESE ERECTION DRAWINGS SHALL TAKE PRECEDENCE OVER ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE MANUAL.

CLAIMS FOR SHORTAGES OFDEFECTIVE MATERIAL MUST BE MADE TO TRIDENT BUILDING SYSTEM'S WITHIN (5) DAYS OF RECEIPT OF SHIPMENT OR SHALL BE CONCLUSIVELY WAIVED.

FIELD CUTTING OF PANELS AND TRIM REQUIRES THE USE OF NIBBLERS, SNIPS OR SHEARS TO PREVENT EDGE RUSTING. DO NOT CUT THE PANELS WITH SAWS, ABRASIVE BLADES, GRINDERS OR TORCHES.

NEVER ALLOW PANELS TO COME IN CONTACT WITH OR BE EXPOSED TO WATER RUNOFF FROM LEAD, COPPER, GRAPHITE OR PRESSURE TREATED LUMBER.

WARRANTY NOTES:

A TRIDENT BUILDING SYSTEMS (20 YEAR STANDARD) WEATHERTIGHTNESS WARRANTY IS PROVIDED FOR THIS PROJECT.

A TRIDENT BUILDING SYSTEMS (20 YEAR STANDARD) FINISH WARRANTY IS PROVIDED FOR THIS PROJECT.

THE FINISH WARRANTY WILL NOT EXTEND OR COVER DAMAGE TO THE COATED METAL CAUSED BY CASCADING WATER.

PANEL AND TRIM SPECIFICATIONS:

ROOF PANEL:

PANEL TYPE: 16" SURLOK  
GAGE: 24  
CLIP TYPE: LOW FLOATING  
CLIP FASTENER: (2) #12-14 x 1 1/4" SD3 HWH  
CLIP SPACING: SEE SHEET E2.1  
FINISH: N/A  
COLOR: GALVALUME

WALL PANEL:

PANEL TYPE: R PANEL  
GAGE: 24  
FINISH: KYNAR  
COLOR: CHAMPAGNE/SANDSTONE

LINER PANEL:

PANEL TYPE: N/A  
GAGE: N/A  
FINISH: N/A  
COLOR: N/A

SOFFIT PANEL:

PANEL TYPE: REV. ROLL R PANEL  
GAGE: 24  
FINISH: KYNAR  
COLOR: SNOW WHITE

TRANSLUCENT WALL PANEL:

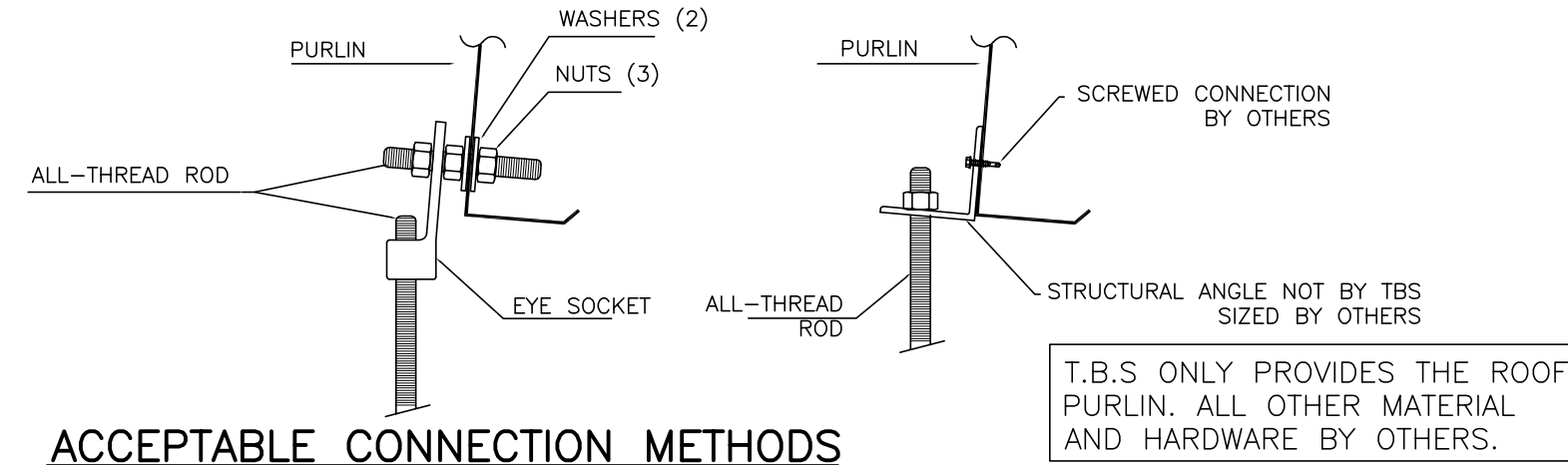
PANEL TYPE: KALWALL INSULATED WALL SYSTEM  
THICKNESS: 4"  
FINISH: CRF  
COLOR: T.B.D.

TRIMS:

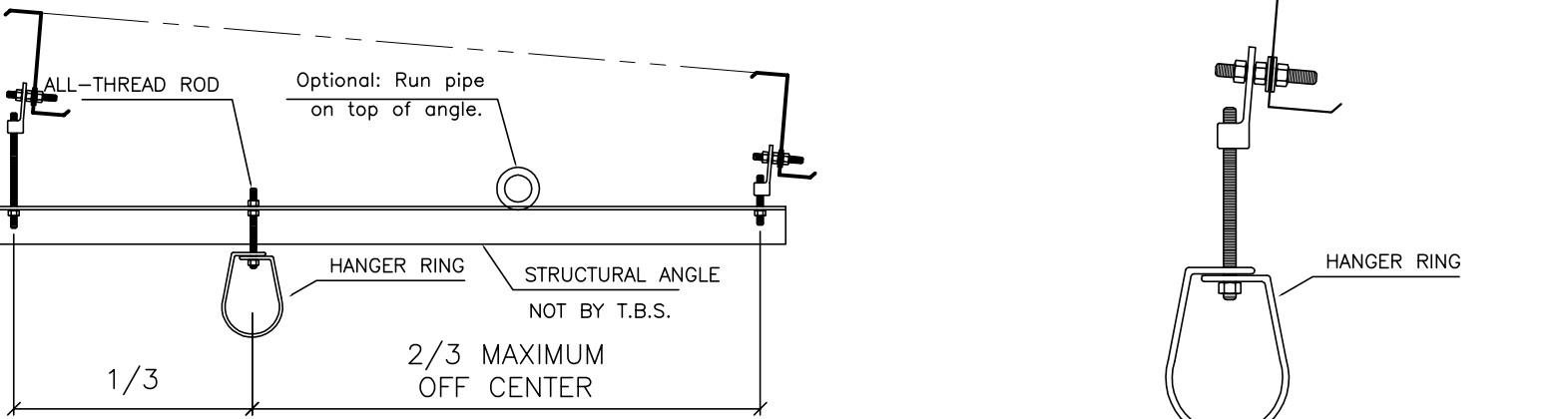
TRIM GAUGE TO MATCH RELATED PANELS.  
ALL TRIM IS TBS'S STD. PROFILE AND SIZE, UNLESS NOTED.

TRIM COLORS:

RAKE: SNOW WHITE  
GUTTERS: SNOW WHITE  
DOWNSPOUTS: SNOW WHITE  
F.O.: MATCH WALL COLOR  
CORNER: MATCH WALL COLOR  
BASE: N/A  
WALK DOORS: SNOW WHITE  
EAVE: SNOW WHITE  
SOFFIT: SNOW WHITE  
FASCIA: N/A  
RIDGE CAP: GALVALUME  
HIGH EAVE: SNOW WHITE  
(SEE COLOR SELECTION SHEET FOR THESE AND ADDITIONAL TRIMS)

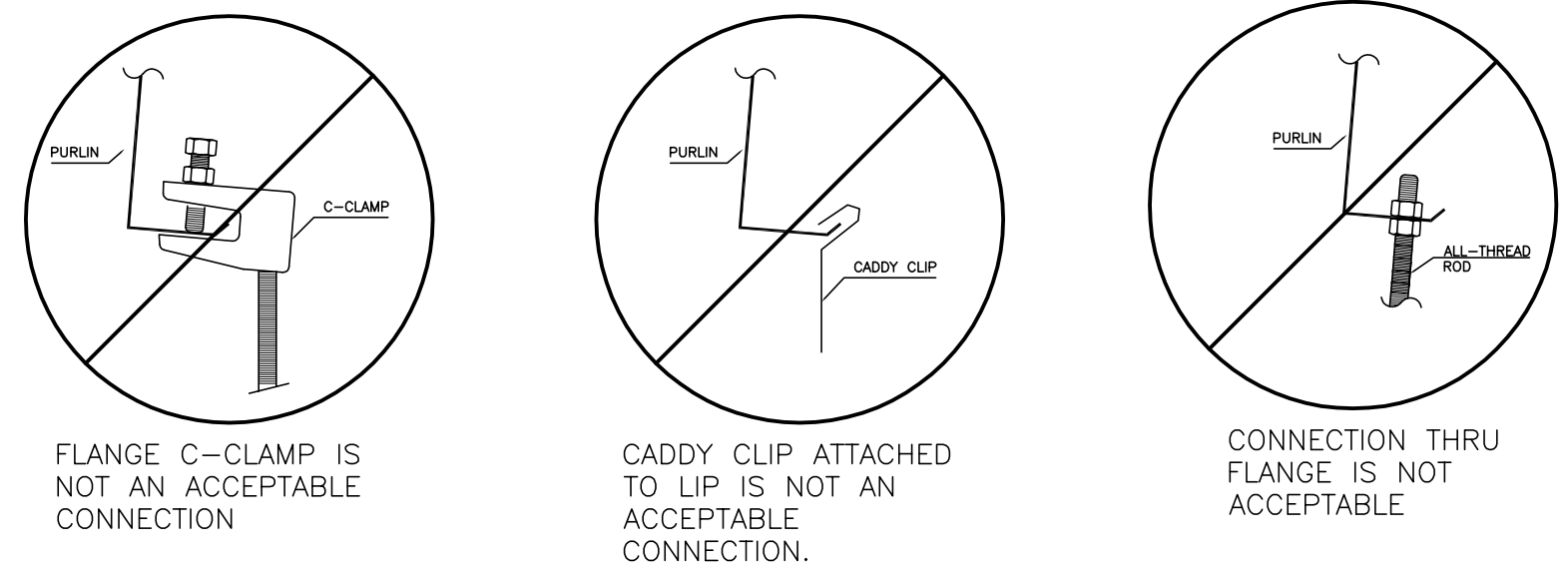


ACCEPTABLE CONNECTION METHODS



TRAPEZE HANGER: 2 1/2"Ø TO 4"Ø PIPE (LOAD SPREAD TO 2 PURLINS)  
HANGER ~ 1/2"Ø TO 2 1/2"Ø (SINGLE PURLIN LOADED)

SPRINKLER/COLLATERAL CONNECTION DETAILS



UNACCEPTABLE CONNECTION DETAILS

| NOMINAL BOLT DIAMETER<br>d <sub>b</sub> , IN. | SPECIFIED MINIMUM BOLT PRETENSION T <sub>w</sub> , KIPS <sup>a</sup> |  | NUT ROTATION FROM SNUG-TIGHT CONDITION FOR TURN-OF-NUT TENSIONING <sup>a,b</sup> |                                |                                                                            |                                                                            |
|-----------------------------------------------|----------------------------------------------------------------------|--|----------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
|                                               | ASTM A325 AND F1852 BOLTS                                            |  | DISPOSITION OF OUTER FACE OF BOLTED PARTS                                        |                                |                                                                            |                                                                            |
| 1/2                                           | 12                                                                   |  | BOLT LENGTH <sup>c</sup><br>NOT MORE THAN 4d <sup>b</sup>                        | BOLT FACES NORMAL TO BOLT AXIS | ONE FACE NORMAL TO BOLT AXIS, OTHER SLOPED NOT MORE THAN 1:20 <sup>d</sup> | BOTH FACES SLOPED NOT MORE THAN 1:20 FROM NORMAL TO BOLT AXIS <sup>d</sup> |
| 5/8                                           | 19                                                                   |  |                                                                                  |                                |                                                                            |                                                                            |
| 3/4                                           | 28                                                                   |  | MORE THAN 4d <sup>b</sup> BUT NOT MORE THAN 8d <sup>b</sup>                      | 1/2 TURN                       | 2/3 TURN                                                                   | 5/6 TURN                                                                   |
| 7/8                                           | 39                                                                   |  | MORE THAN 8d <sup>b</sup> BUT NOT MORE THAN 12d <sup>b</sup>                     | 2/3 TURN                       | 5/6 TURN                                                                   | 1 TURN                                                                     |
| 1                                             | 51                                                                   |  |                                                                                  |                                |                                                                            |                                                                            |
| 1 1/8                                         | 56                                                                   |  |                                                                                  |                                |                                                                            |                                                                            |
| 1 1/4                                         | 71                                                                   |  |                                                                                  |                                |                                                                            |                                                                            |
| 1 3/8                                         | 85                                                                   |  |                                                                                  |                                |                                                                            |                                                                            |
| 1 1/2                                         | 103                                                                  |  |                                                                                  |                                |                                                                            |                                                                            |

(a) EQUAL TO 70 PERCENT OF THE SPECIFIED MINIMUM TENSILE STRENGTH OF BOLTS AS SPECIFIED IN ASTM SPECIFICATIONS FOR TESTS OF FULL-SIZE ASTM A325 BOLTS WITH UNC THREADS LOADED IN AXIAL TENSION, ROUNDED TO THE NEAREST KIP.

(b) NUT ROTATION IS RELATIVE TO BOLT REGARDLESS OF THE ELEMENT (NUT OR BOLT) BEING TURNED. FOR REQUIRED NUT ROTATIONS OF 1/2 TURN AND LESS, THE TOLERANCE IS PLUS OR MINUS 30 DEGREES; FOR REQUIRED NUT ROTATIONS OF 2/3 AND MORE, THE TOLERANCE IS PLUS OR MINUS 45 DEGREES.

(c) WHEN THE BOLT LENGTH EXCEEDS 12d<sup>b</sup>, THE REQUIRED NUT ROTATION SHALL BE DETERMINED BY ACTUAL TESTING IN A SUITABLE TENSION CALIBRATOR THAT SIMULATES THE CONDITIONS OF SOLIDLY FITTING STEEL.

(d) BEVELED WASHER NOT USED.

Two tightening procedure are specified for ASTM A325, and F1852 bolts in joints subject to tension 1) Turn-of-Nut method and 2) Direct Tension indicator. Bolts in connections not subject to tension need only be tightened to the snug tight condition, defined as tightness attained by a few impacts from an impact wrench or the full effort of an ironworker using an ordinary spud wrench.

TURN-OF-NUT PRETENSIONING

When the Turn-of-Nut method is used to provide the specified bolt tension, there shall first be enough bolts brought to a "snug tight" condition to insure that the parts of the joint are brought into good contact with each other. Following this initial operation, bolts shall be placed in any remaining holes in the connection and brought to snug tightness. All bolts in the connection shall then be tightened additionally by the application amount of nut rotation specified with tightening progressing systematically from the most rigid part of the joint to its free edges. During this operation there shall be no rotation of the part not turned by the wrench.

FOR CONSTRUCTION  
SEPTEMBER 7, 2015

Peter Wallis and Associates

Structural Engineers

FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #26156  
7313 merchant court,  
sarasota, fl 34240  
tel. 941-907-9192  
peter.wallis-eng@gmail.com

TRIDENT

BUILDING SYSTEMS INC.

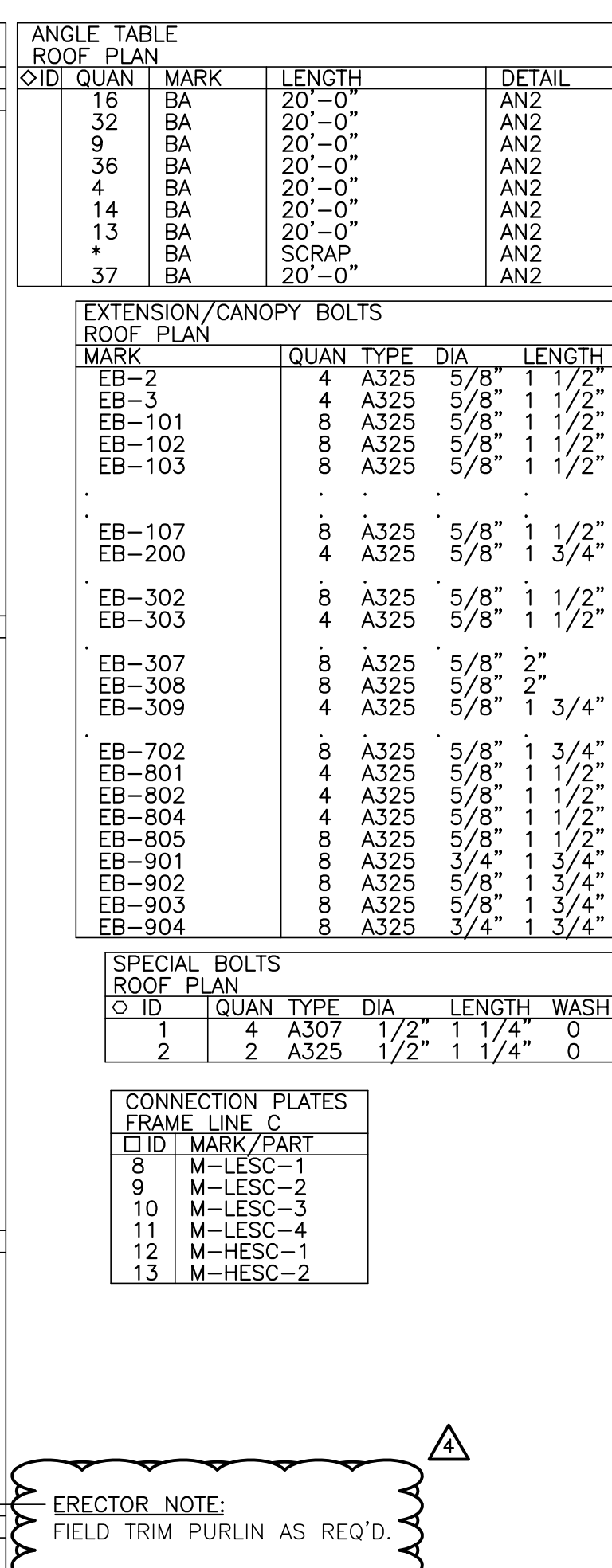
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DRAWINGS WERE PREPARED UNDER  
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Manatee County Transit Fleet Facility  
Bradenton, Florida  
PEMB Notes  
Maint—Ops Building  
CUSTOMER: Willis Smith Construction

| REVISIONS |                                                           |                |
|-----------|-----------------------------------------------------------|----------------|
| △         | FOR APPROVAL                                              | 3.10.15<br>TDB |
| △         | REVISED FOR APPROVAL                                      | 3.26.15<br>TDB |
| △         | FOR CONSTRUCTION<br>AREA B<br>PRIMARY & SECONDARY ONLY    | 7.10.15<br>TDB |
| △         | REVISED FOR CONSTRUCTION<br>AREA A<br>PRIMARY & SECONDARY | 8.10.15<br>TDB |
| △         | REVISED FOR CONSTRUCTION                                  | 8.24.15<br>TDB |
| △         | FOR CONSTRUCTION                                          | 9.7.15<br>TDB  |
| △         |                                                           |                |
| △         |                                                           |                |
| △         |                                                           |                |
| △         |                                                           |                |

DRAWING DATE  
1/30/15  
DRAWN BY  
TDB  
CHECKED BY  
SS  
DRAWING SCALE  
N.T.S.  
JOB NO.  
15-011-07  
SHEET  
C2



ERECTOR NOTE:  
FIELD TRIM PURLIN AS REQ'D.

**FOR CONSTRUCTION  
SEPTEMBER 7, 2015**

A key plan of the site showing various buildings and areas. The plan includes a Logistics Warehouse (a simple rectangle), a Fuel Building (a rectangle with a diagonal line and the text 'NOT BY T.S.S.'), a Wash Building (a rectangle with a diagonal line and the text 'NOT BY T.S.S.'), and a Maintenance Operations Building (a large, complex shape with a diagonal hatched area labeled 'AREA B' and an unshaded area labeled 'AREA A'). A north arrow is located at the bottom left, and the text 'KEY PLAN' is at the bottom left.

DESIGN PROVIDED BY :  
**PETER WALLIS**  
**FLORIDA P.E.# 34418**  
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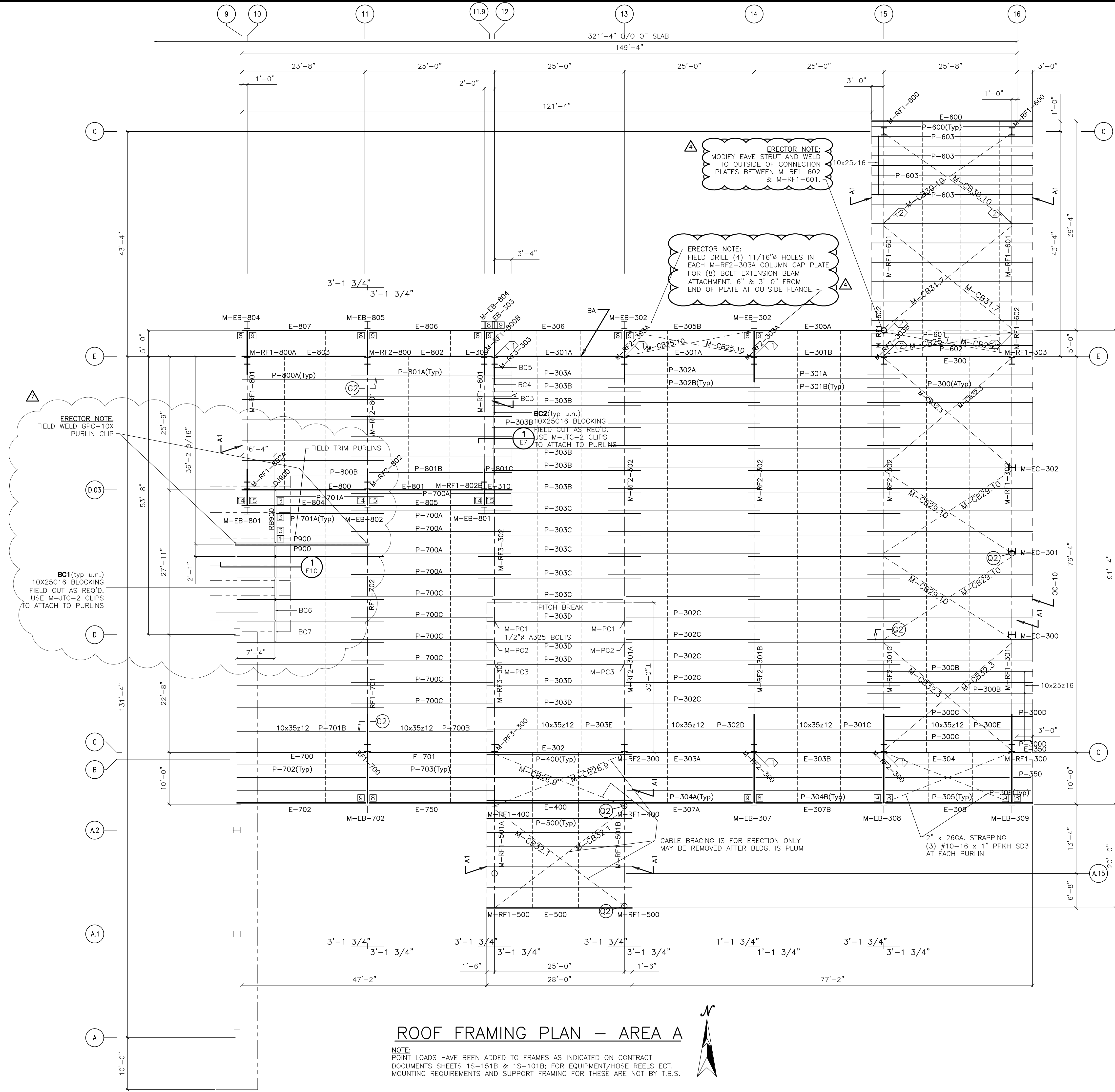
Manatee County Transit Fleet Facility  
Bradenton, Florida  
Roof Framing plan  
Maint—Ops Building

CUSTOMER: Willis Smith Construction

| REVISIONS |                                                           |                |
|-----------|-----------------------------------------------------------|----------------|
| A         | FOR APPROVAL                                              | 3.10.15<br>TDB |
| B         | REVISED FOR APPROVAL                                      | 3.26.15<br>TDB |
| C         | REVISED FOR CONSTRUCTION                                  | 6.22.15<br>JCC |
| D         | REVISED FOR CONSTRUCTION                                  | 7.06.15<br>JCC |
| 1         | FOR CONSTRUCTION<br>AREA B<br>PRIMARY & SECONDARY ONLY    | 7.10.15<br>TDB |
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|           |                                                           |                |

|               |
|---------------|
| DRAWING DATE  |
| 1/30/15       |
| DRAWN BY      |
| TDB           |
| CHECKED BY    |
| SS            |
| DRAWING SCALE |
| N.T.S.        |
| JOB NO.       |
| 15-011-07     |
| SHEET         |
| E1.1          |

H:\2015\1501107 - Manatee County Transit Fleet Facility - Roof Framing Plan - Area A.dwg, Model: 9/30/2015 7:52:53 AM



| MEMBER TABLE  |          |        |
|---------------|----------|--------|
| ROOF PLAN     |          |        |
| MARK          | PART     | LENGTH |
| 1407368D3     |          |        |
| EB-302        | W10X12   |        |
| EB-303        | W10X12   |        |
| EB-307 W10X39 |          |        |
| EB-308 W10X39 |          |        |
| EB-309 W10X22 |          |        |
| P-300         | 10X35Z14 |        |
| P-301         | 10X35Z14 |        |
| P-302         | 10X35Z14 |        |
| P-303         | 10X35Z12 |        |
| P-304         | 10X35Z12 |        |
| P-305         | 10X35Z12 |        |
| P-306         | 10X35Z12 |        |
| E-300         | 10ES14   |        |
| E-301         | 10ES14   |        |
| E-302         | 10ES14   |        |
| E-303         | 10ES14   |        |
| E-304         | 10ES14   |        |
| E-305         | 10ES12   |        |
| E-306         | 10X25C12 |        |
| E-307         | 10X25C12 |        |
| E-308         | 10X25C14 |        |
| E-309         | 10ES14   |        |
| E-310         | 10ES14   |        |
| CB-300        | 5/16 CBL |        |
| CB-301        | 5/16 CBL |        |
| CB-302        | 5/16 CBL |        |
| 1407368F1     |          |        |
| P-400         | 10X35Z12 |        |
| E-400         | 10ES14   |        |
| CB-400        | 5/16 CBL |        |
| 1407368F2     |          |        |
| P-500         | 10X35Z12 |        |
| E-500         | 10ES14   |        |
| CB-500        | 5/16 CBL |        |
| 1407368G      |          |        |
| P-600         | 10X35Z12 |        |
| P-601         | 10X35Z14 |        |
| P-602         | 10X35Z12 |        |
| E-600         | 10ES14   |        |
| E-601         | 10ES14   |        |
| E-602         | 10ES14   |        |
| E-603         | 10ES14   |        |
| E-604         | 10X25C14 |        |
| E-605         | 10X25C14 |        |
| E-606         | 10X25C12 |        |
| E-607         | 10X25C12 |        |
| 1407368D2     |          |        |
| EB-801        | W10X12   |        |
| EB-802        | W10X12   |        |
| EB-804        | W10X12   |        |
| EB-805        | W10X12   |        |
| P-800         | 10X25Z14 |        |
| P-801         | 10X25Z14 |        |
| P-802         | 10X25Z14 |        |
| P-803         | 10ES14   |        |
| P-804         | 10ES14   |        |
| P-805         | 10ES14   |        |
| P-806         | 10ES14   |        |
| P-807         | 10X25C14 |        |
| P-808         | 10X25C14 |        |
| P-809         | 10X25C12 |        |

| ANGLE TABLE            |               |        |        |        |      |
|------------------------|---------------|--------|--------|--------|------|
| ROOF PLAN              |               |        |        |        |      |
| QID                    | QUAN          | MARK   | LENGTH | DETAIL |      |
| 16                     | BA            | 20'-0" | 1      | AN2    |      |
| 32                     | BA            | 20'-0" |        | AN2    |      |
| 9                      | BA            | 20'-0" |        | AN2    |      |
| 36                     | BA            | 20'-0" |        | AN2    |      |
| 4                      | BA            | 20'-0" |        | AN2    |      |
| 14                     | BA            | 20'-0" |        | AN2    |      |
| 13                     | BA            |        |        | AN2    |      |
| *                      | BA            | SCRAP  |        | AN2    |      |
| 37                     | BA            | 20'-0" |        | AN2    |      |
| EXTENSION/CANOPY BOLTS |               |        |        |        |      |
| ROOF PLAN              |               |        |        |        |      |
| MARK                   | QUAN          | TYPE   | DIA    | LENGTH |      |
| EB-2                   | 4             | A325   | 5/8"   | 1 1/2" |      |
| EB-3                   | 4             | A325   | 5/8"   | 1 1/2" |      |
| EB-101                 | 8             | A325   | 5/8"   | 1 1/2" |      |
| EB-102                 | 8             | A325   | 5/8"   | 1 1/2" |      |
| EB-103                 | 8             | A325   | 5/8"   | 1 1/2" |      |
| EB-107                 | 8             | A325   | 5/8"   | 1 1/2" |      |
| EB-200                 | 4             | A325   | 5/8"   | 1 3/4" |      |
| EB-302                 | 8             | A325   | 5/8"   | 1 1/2" |      |
| EB-303                 | 4             | A325   | 5/8"   | 1 1/2" |      |
| EB-307                 | 8             | A325   | 5/8"   | 2"     |      |
| EB-308                 | 8             | A325   | 5/8"   | 2"     |      |
| EB-309                 | 8             | A325   | 5/8"   | 1 3/4" |      |
| EB-702                 | 8             | A325   | 5/8"   | 1 3/4" |      |
| EB-801                 | 4             | A325   | 5/8"   | 1 1/2" |      |
| EB-802                 | 4             | A325   | 5/8"   | 1 1/2" |      |
| EB-804                 | 4             | A325   | 5/8"   | 1 1/2" |      |
| EB-805                 | 8             | A325   | 5/8"   | 1 1/2" |      |
| EB-901                 | 8             | A325   | 5/8"   | 1 3/4" |      |
| EB-902                 | 8             | A325   | 5/8"   | 1 3/4" |      |
| EB-903                 | 8             | A325   | 5/8"   | 1 3/4" |      |
| EB-904                 | 8             | A325   | 5/8"   | 1 3/4" |      |
| SPECIAL BOLTS          |               |        |        |        |      |
| ROOF PLAN              |               |        |        |        |      |
| QID                    | QUAN          | TYPE   | DIA    | LENGTH | WASH |
| 1                      | 4             | A307   | 1/2"   | 1 1/4" | 0    |
| 2                      | 2             | A325   | 1/2"   | 1 1/4" | 0    |
| CONNECTION PLATES      |               |        |        |        |      |
| FRAME LINE C           |               |        |        |        |      |
| QID                    | MARK/PART     |        |        |        |      |
| 8                      | M-LESSC-1     |        |        |        |      |
| 9                      | M-LESSC-2     |        |        |        |      |
| 14                     | M-HESC-3      |        |        |        |      |
| 15                     | M-HESC-4      |        |        |        |      |
| 3                      | JTC-1         |        |        |        |      |
| 3                      | JCG10 & JCP10 |        |        |        |      |

**Peter Wallis and Associates**  
**Structural Engineers**

FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #29155  
7313 meacham court,  
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peter.wallis.eng@gmail.com

**FOR CONSTRUCTION**  
**SEPTEMBER 7, 2015**

**KEY PLAN**

LOGISTICS WAREHOUSE  
WASH BUILDING  
FUEL BUILDING  
MAINT-OPS BLDG  
AREA B  
AREA A

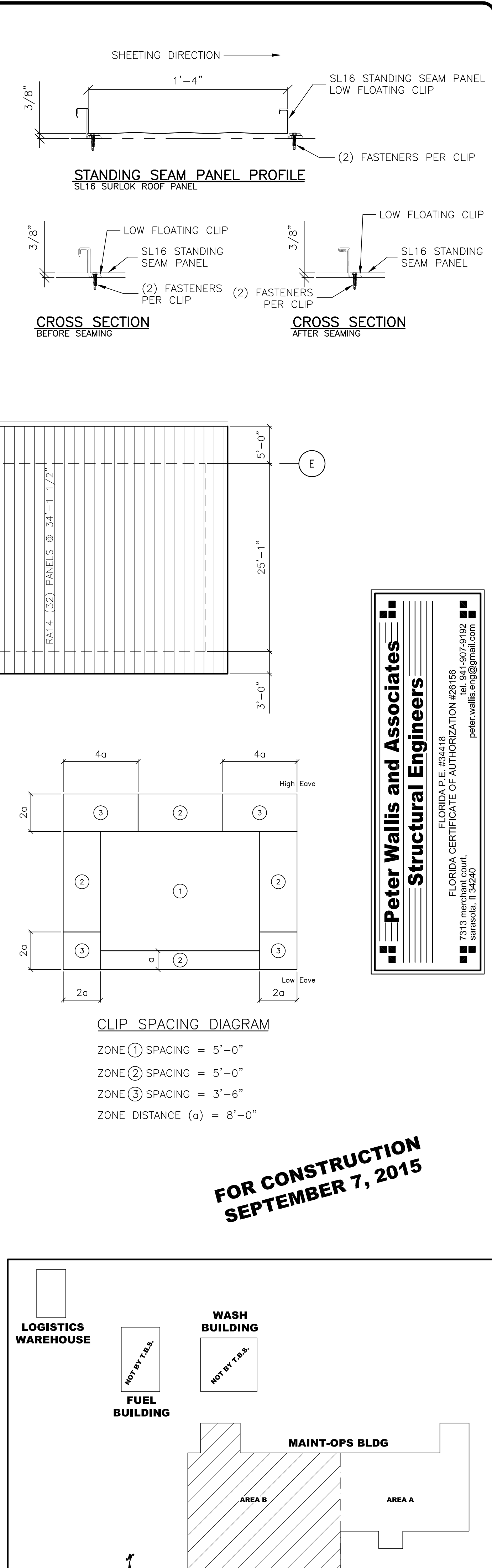
**TRIDENT**  
BUILDING SYSTEMS INC.  
2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067

DESIGN PROVIDED BY :  
**PETER WALLIS**  
FLORIDA P.E. # 34418  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Roof Framing plan  
Maint-Ops Building  
CUSTOMER: Willis Smith Construction

| REVISIONS                                |                |
|------------------------------------------|----------------|
| FOR APPROVAL                             | 3.10.15<br>TDB |
| REVISED FOR APPROVAL                     | 3.26.15<br>TDB |
| FOR CONSTRUCTION                         | 7.10.15<br>TDB |
| AREA B<br>PRIMARY & SECONDARY ONLY       | 7.29.15<br>TDB |
| REVISED FOR CONSTRUCTION                 | 8.5.15<br>TDB  |
| AREA A<br>PRIMARY & SECONDARY            | 8.10.15<br>TDB |
| REVISED FOR CONSTRUCTION                 | 8.24.15<br>TDB |
| REVISED FOR STAIR<br>OPENING IN LOW ROOF | 8.27.15<br>TDB |
| FOR CONSTRUCTION                         | 9.7.15<br>TDB  |

DRAWING DATE  
**1/30/15**  
DRAWN BY  
**TDB**  
CHECKED BY  
**SS**  
DRAWING SCALE  
**N.T.S.**  
JOB NO.  
**15-011-07**  
SHEET  
**E1.2**



|                                                                                                                                                                                                                     |                                                     |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------|
|                                                                                                                                                                                                                     |                                                     |                |
| <div style="text-align: center;"> American Welding Society<br/>Sponsored by the American Institute of Steel Construction</div> |                                                     |                |
| <div style="text-align: center;"><br/><b>FLORIDA BUILDING SYSTEMS INC.</b></div>                                               |                                                     |                |
|                                                                                                                                |                                                     |                |
| 2812 Tallevast Road • Sarasota, Florida 34243<br>Phone: 941-755-7073 • Fax: 941-755-3067                                                                                                                            |                                                     |                |
|                                                                                                                                                                                                                     |                                                     |                |
| DESIGN PROVIDED BY :                                                                                                                                                                                                |                                                     |                |
| <b>PETER WALLIS</b><br><b>FLORIDA P.E.# 34418</b><br>FABRICATION AND ERECTION<br>DRAWINGS WERE PREPARED UNDER<br>THE RESPONSIBLE SUPERVISION<br>OF THE SIGNATURE ENGINEER<br>SHOWN ABOVE                            |                                                     |                |
|                                                                                                                                                                                                                     |                                                     |                |
| <b>Manatee County Transit Fleet Facility</b><br><b>Bradenton, Florida</b><br><b>Roof Sheetting Plan</b><br><b>Maint—Ops Building</b>                                                                                |                                                     |                |
| <b>CUSTOMER: Willis Smith Construction</b>                                                                                                                                                                          |                                                     |                |
|                                                                                                                                                                                                                     |                                                     |                |
| <b>REVISIONS</b>                                                                                                                                                                                                    |                                                     |                |
| A                                                                                                                                                                                                                   | FOR APPROVAL                                        | 3.10.15<br>TDB |
| B                                                                                                                                                                                                                   | REVISED FOR APPROVAL                                | 3.26.15<br>TDB |
| 1                                                                                                                                                                                                                   | FOR CONSTRUCTION AREA B PRIMARY & SECONDARY ONLY    | 7.10.15<br>TDB |
| 4                                                                                                                                                                                                                   | REVISED FOR CONSTRUCTION AREA A PRIMARY & SECONDARY | 8.10.15<br>TDB |
| 6                                                                                                                                                                                                                   | REVISED FOR CONSTRUCTION                            | 8.24.15<br>TDB |
| 8                                                                                                                                                                                                                   | FOR CONSTRUCTION                                    | 9.7.15<br>TDB  |
|                                                                                                                                                                                                                     |                                                     |                |
|                                                                                                                                                                                                                     |                                                     |                |
|                                                                                                                                                                                                                     |                                                     |                |
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|                                                                                                                                                                                                                     |                                                     |                |
| <div style="text-align: center;">DRAWING DATE<br/><b>1/30/15</b></div>                                                                                                                                              |                                                     |                |
| <div style="text-align: center;">DRAWN BY<br/><b>TDB</b></div>                                                                                                                                                      |                                                     |                |
| <div style="text-align: center;">CHECKED BY<br/><b>SS</b></div>                                                                                                                                                     |                                                     |                |
| <div style="text-align: center;">DRAWING SCALE<br/><b>N.T.S.</b></div>                                                                                                                                              |                                                     |                |
| <div style="text-align: center;">JOB NO.<br/><b>15-011-07</b></div>                                                                                                                                                 |                                                     |                |
| <div style="text-align: center;">SHEET<br/><b>E2 1</b></div>                                                                                                                                                        |                                                     |                |



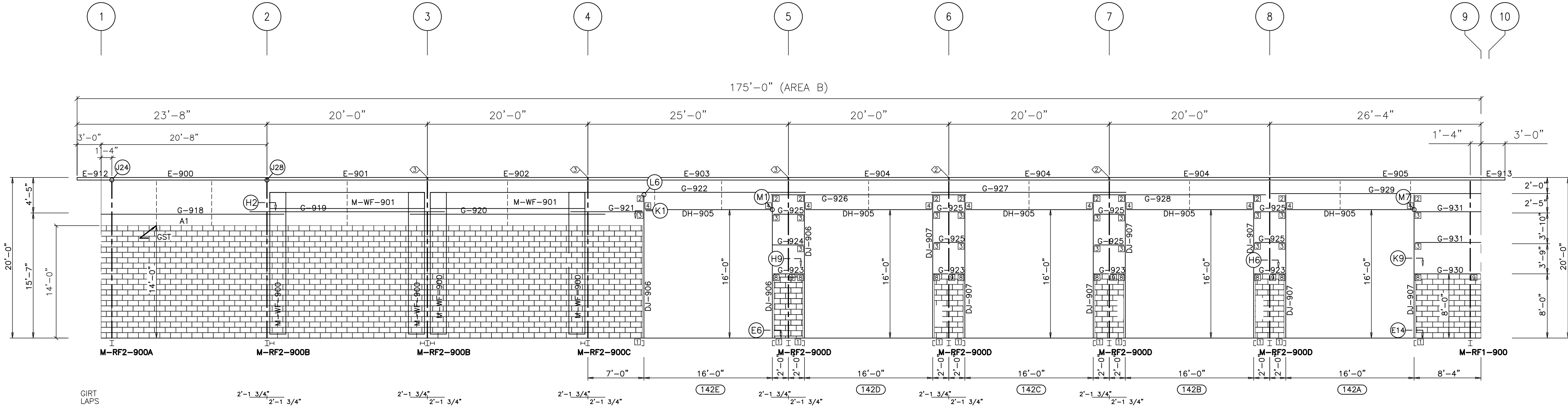
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| DRAWING DATE  |
| 1/30/15       |
| DRAWN BY      |
| TDB           |
| CHECKED BY    |
| SS            |
| DRAWING SCALE |
| N.T.S.        |
| JOB NO.       |
| 15-011-07     |
| SHEET         |
| E2.2          |

DESIGN PROVIDED BY :  
**PETER WALLIS**  
**FLORIDA P.E.# 34418**

FABRICATION AND ERECTION  
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SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Roof Sheeting Plan  
Maint-Ops Building

CUSTOMER: Willis Smith Construction



### SIDEWALL FRAMING: FRAME LINE A

G.C. NOTE:  
FRAMED OPENING JAMBS TO BE INSTALLED PRIOR TO MASONRY WALL.  
SEE DETAILS E6/D1 & T92/D4.

| BOLT TABLE   |           |         |           |           |
|--------------|-----------|---------|-----------|-----------|
| FRAME LINE A |           |         |           |           |
| LOCATION     | WF-900    | WF-900  | WF-900    | WF-900    |
| QUAN         | 4         | 12      | 12        | 12        |
| TYPE         | A325      | A325    | A325      | A325      |
| DIA          | 1"        | 5/8"    | 5/8"      | 5/8"      |
| LENGTH       | 2'-1 1/2" | 1'-3/4" | 2'-1 1/2" | 2'-1 1/2" |

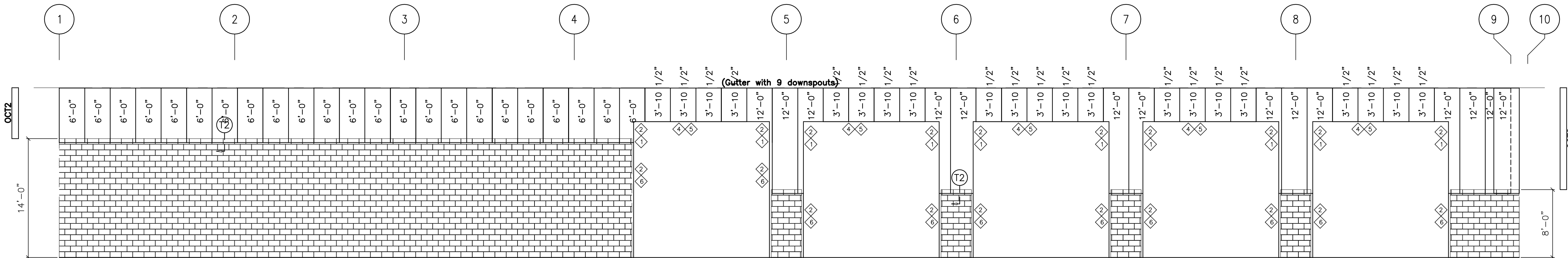
| TRIM TABLE   |      |        |        |  |
|--------------|------|--------|--------|--|
| FRAME LINE A |      |        |        |  |
| ID           | MARK | LENGTH | DETAIL |  |
| 1            | JT1  | 20'-3" | T61    |  |
| 2            | WT2  | 20'-3" | T67    |  |
| 3            | HT1  | 20'-3" | T67    |  |
| 4            | WT1  | 20'-3" | T67    |  |
| 5            | CT1  | 20'-3" | T92    |  |

| ANGLE & STRAPPING TABLE |      |        |        |  |
|-------------------------|------|--------|--------|--|
| FRAME LINE A            |      |        |        |  |
| ID                      | MARK | LENGTH | DETAIL |  |
| 1                       | GST  | 20'-0" | AN1    |  |

| SPECIAL BOLTS |      |      |      |         |
|---------------|------|------|------|---------|
| ID            | QUAN | TYPE | DIA  | LENGTH  |
| 2             | 4    | A307 | 1/2" | 1'-1/4" |

| MEMBER TABLE |          |        |
|--------------|----------|--------|
| MARK         | PART     | LENGTH |
| WF-900       | W22886   |        |
| WF-901       | W18684   |        |
| DJ-906       | 10X25C12 |        |
| DJ-907       | 10X25C16 |        |
| DH-905       | 10X25C16 |        |
| E-900        | 10ES14   |        |
| E-901        | 10ES14   |        |
| E-902        | 10ES14   |        |
| E-903        | 10ES14   |        |
| E-904        | 10ES14   |        |
| E-905        | 10ES14   |        |
| G-918        | 10X25C16 |        |
| G-919        | 10X25C16 |        |
| G-920        | 10X25C16 |        |
| G-921        | 10X25C14 |        |
| G-922        | 10X25C12 |        |
| G-923        | C10X15.3 |        |
| G-924        | 10X25C16 |        |
| G-925        | 10X25C16 |        |
| G-926        | 10X25C14 |        |
| G-927        | 10X25C16 |        |
| G-928        | 10X25C16 |        |
| G-929        | 10X25C12 |        |
| G-930        | C10X15.3 |        |
| G-931        | 10X25C16 |        |

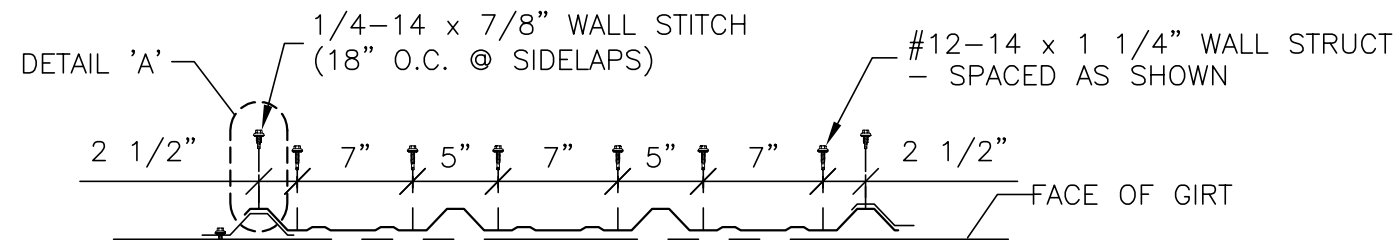
| CONNECTION PLATES |                |  |
|-------------------|----------------|--|
| FRAME LINE A      |                |  |
| ID                | MARK/PART      |  |
| 1                 | JCG10 & JCP10  |  |
| 2                 | JTC-1          |  |
| 3                 | JCG10 & JCP10  |  |
| 4                 | HJCO8          |  |
| 5                 | JCG10A & JCP10 |  |
| 6                 | M-GC4          |  |



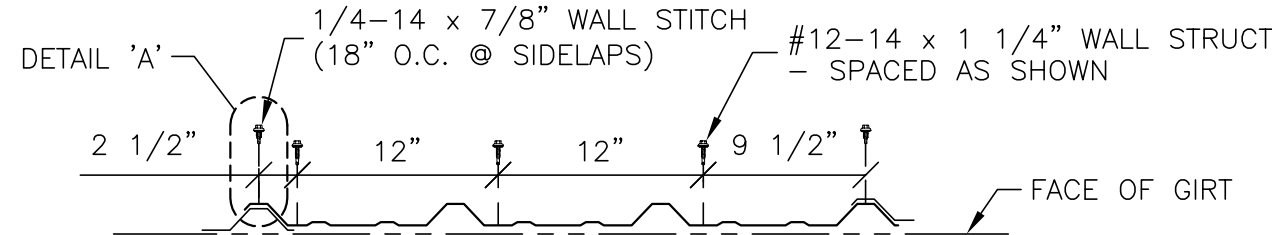
### SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 36" 24 Ga. TBS PBR Panel - Color: CHAMPAGNE (BUNDLE MK. SW-1A)  
DS = DOWNSPOUT (SIZE = 4"x5")  
DOWNSPOUT CONNECTION TO UNDERGROUND DRAINAGE SYSTEM **NOT** BY T.B.S.  
R-11 VINYL FACED WALL INSULATION

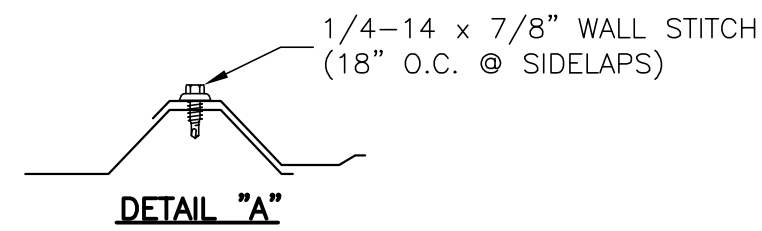
**FOR CONSTRUCTION**  
**SEPTEMBER 7, 2015**



STD. 'R' WALL PANEL FASTENER SPACING  
AT FAVE STRUT, END LAP AND BASE



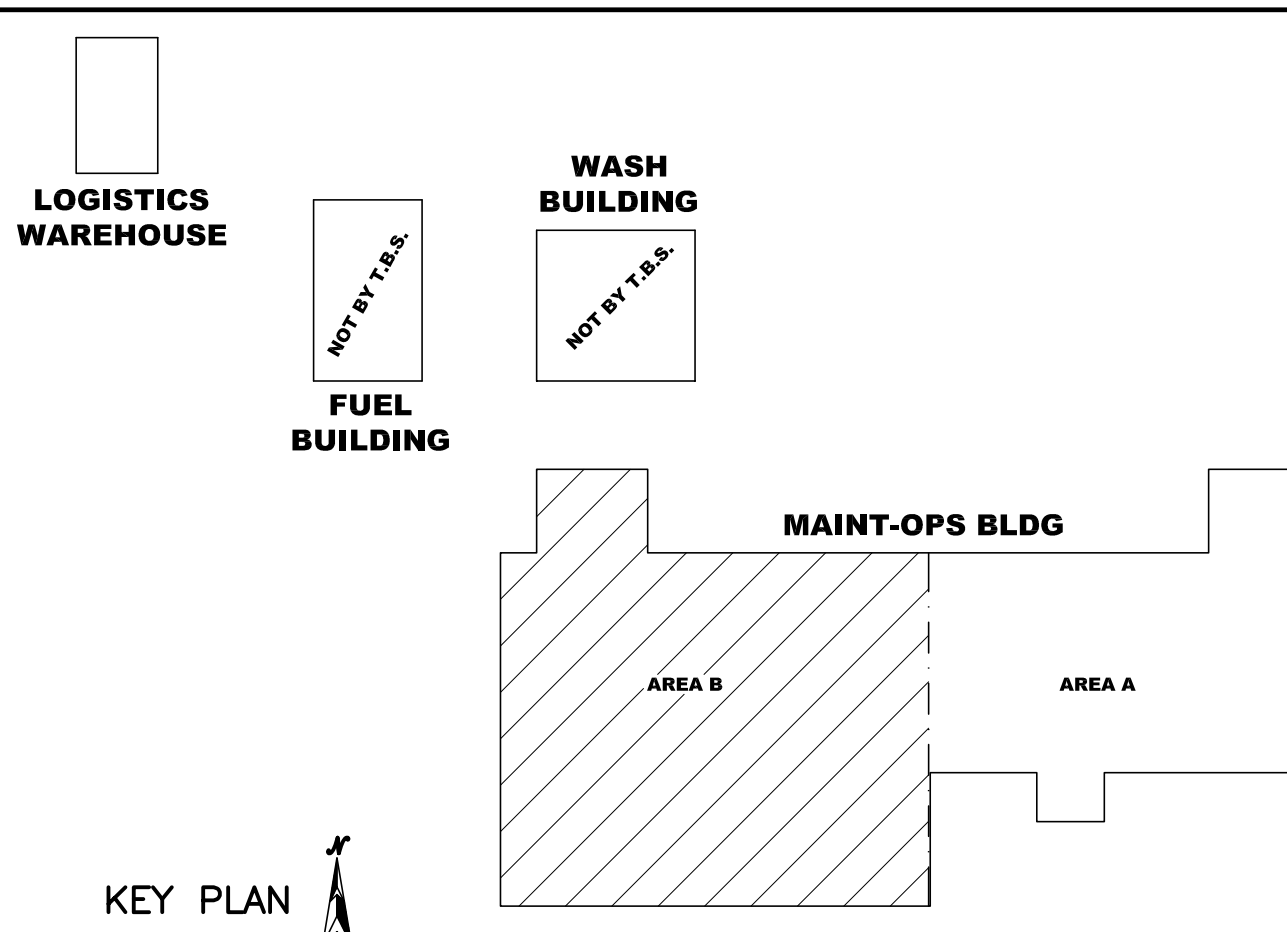
STD. 'R' WALL PANEL FASTENER SPACING  
AT INTERMEDIATE GIRTS



WALL PANEL ATTACHMENT  
R PANELS

**Peter Wallis and Associates**  
**Structural Engineers**

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peter.wallis.eng@gmail.com



**TRIDENT**  
BUILDINGSYSTEMS INC.

2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067

DESIGN PROVIDED BY :  
**PETER WALLIS**  
FLORIDA P.E.# 34418  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
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SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Sidewall Framing & Sheeting Elevation  
Maint-Ops Building  
CUSTOMER: Willis Smith Construction

| REVISIONS |                          |
|-----------|--------------------------|
| 1         | FOR APPROVAL             |
| 2         | REVISED FOR APPROVAL     |
| 3         | FOR CONSTRUCTION         |
| 4         | REVISED FOR CONSTRUCTION |
| 5         | REVISED FOR CONSTRUCTION |
| 6         | FOR CONSTRUCTION         |

DRAWING DATE  
**1/30/15**

DRAWN BY  
**TDB**

CHECKED BY  
**SS**

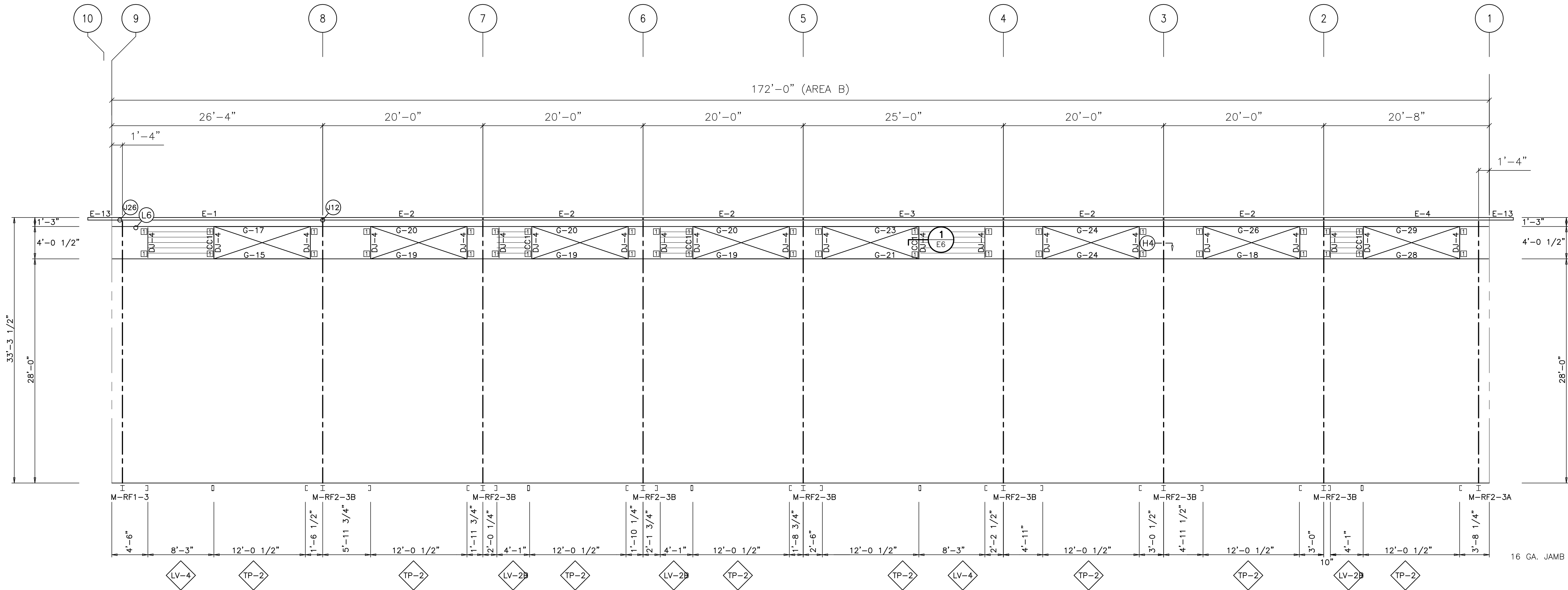
DRAWING SCALE  
**N.T.S.**

JOB NO.  
**15-011-07**

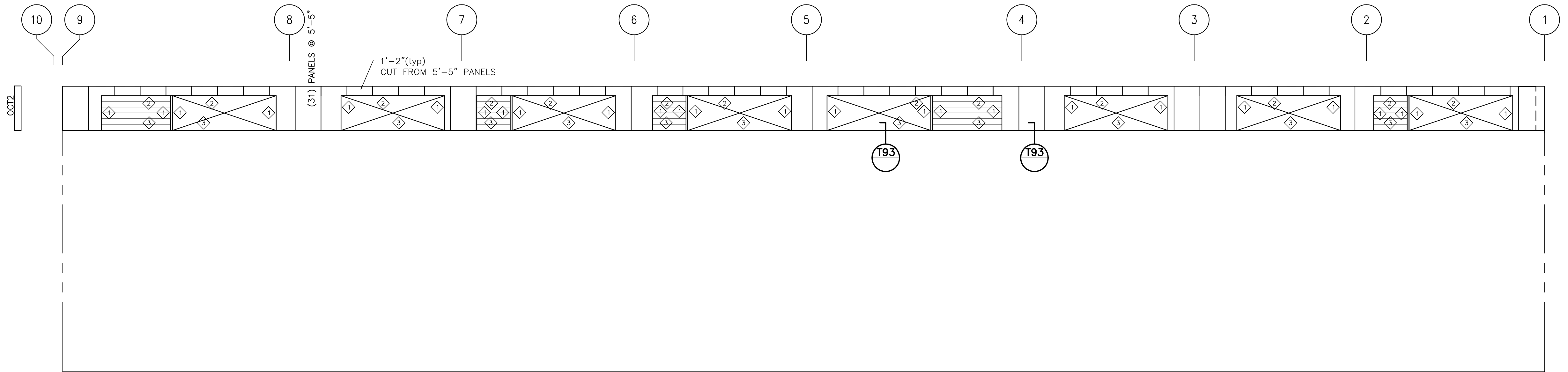
SHEET  
**E3**







SIDEWALL FRAMING: FRAME LINE D



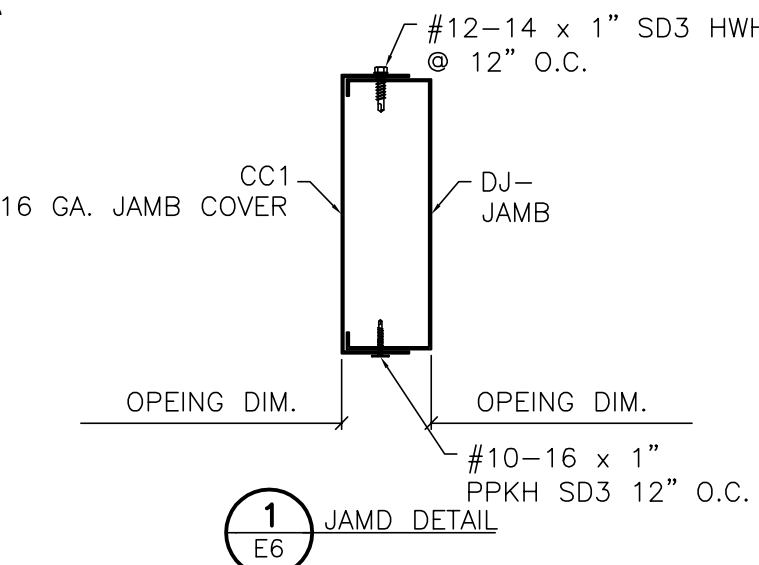
SIDEWALL SHEETING & TRIM: FRAME LINE D

PANELS: 36" 24 Ga. TBS PBR Panel - Color: CHAMPAGNE (BUNDLE MK. SW-D1)  
R-11 VINYL FACED WALL INSULATION

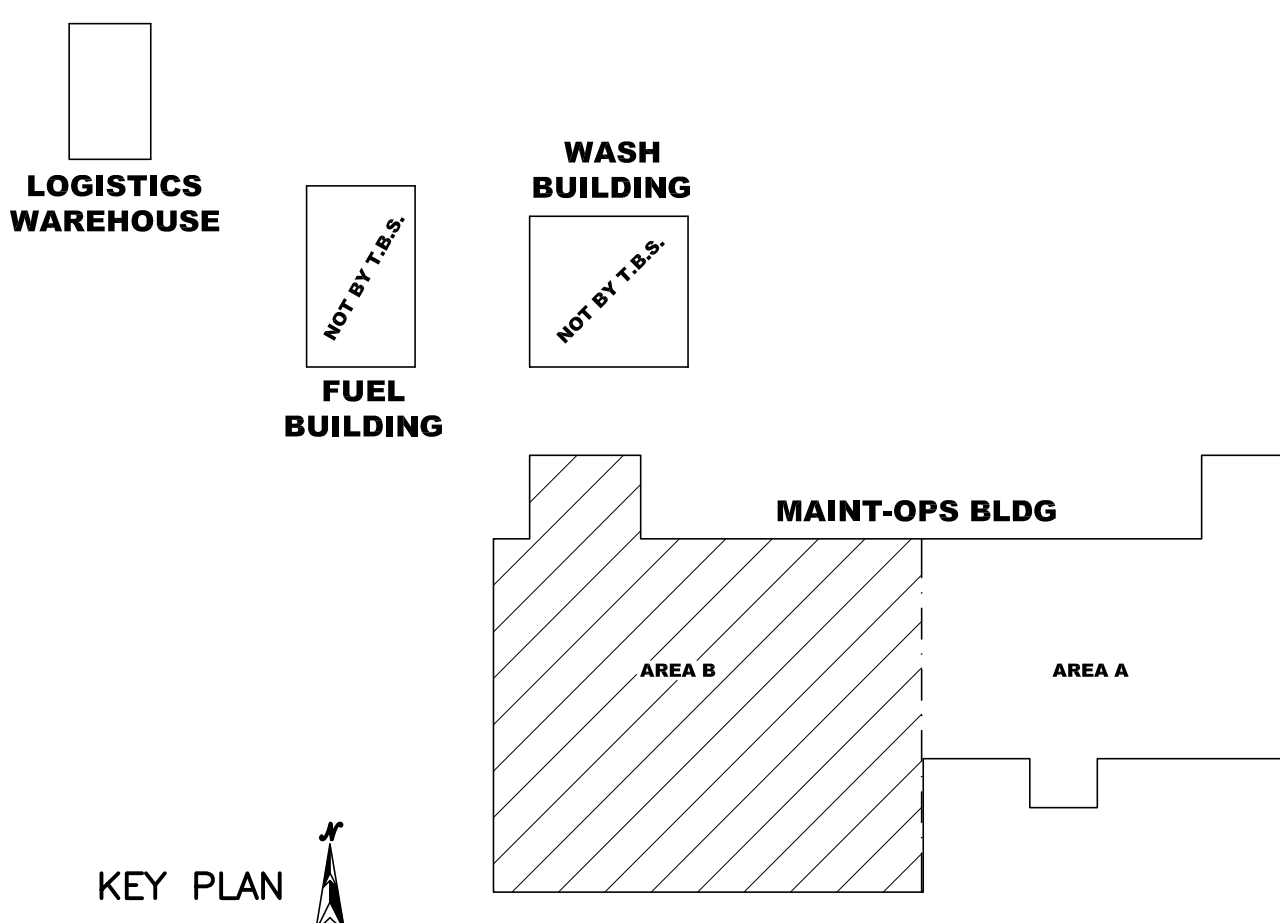
| TRIM TABLE   |      |        |        |
|--------------|------|--------|--------|
| FRAME LINE D |      | DETAIL |        |
| ID           | MARK | LENGTH | DETAIL |
| 1            | JT1  | 20'-3" | T60    |
| 2            | HT1  | 20'-3" | T66    |
| 3            | SLT1 | 20'-3" | T66    |

| MEMBER TABLE |         |             |
|--------------|---------|-------------|
| FRAME LINE D |         | LENGTH      |
| MARK         | PART    | LENGTH      |
| DJ-4         | 8X25C16 | 4'-0"       |
| E-1          | 10ES14  | 24'-11 1/2" |
| E-2          | 10ES14  | 19'-7 1/2"  |
| E-3          | 10ES12  | 24'-7 1/2"  |
| E-4          | 10ES14  | 19'-3 1/2"  |
| E-13         | 10ES14  | 3'-9 1/2"   |
| G-16         | 8X25C14 | 26'-3 1/2"  |
| G-17         | 8X25C14 | 26'-3 1/2"  |
| G-19         | 8X25C14 | 19'-11 1/2" |
| G-20         | 8X25C14 | 19'-11 1/2" |
| G-22         | 8X25C14 | 24'-11 1/2" |
| G-23         | 8X25C14 | 24'-11 1/2" |
| G-24         | 8X25C14 | 19'-11 1/2" |
| G-25         | 8X25C14 | 19'-11 1/2" |
| G-26         | 8X25C14 | 19'-11 1/2" |
| G-28         | 8X25C14 | 20'-7 1/2"  |
| G-29         | 8X25C14 | 20'-7 1/2"  |

| CONNECTION PLATES |           |
|-------------------|-----------|
| FRAME LINE D      |           |
| ID                | MARK/PART |
| 1                 | JTC-3     |



FOR CONSTRUCTION  
SEPTEMBER 7, 2015



**Peter Wallis and Associates**  
**Structural Engineers**

FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #26156

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**PETER WALLIS**  
FLORIDA P.E. # 34418

FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Sidewall Framing & Sheeting Elevation  
Maint-Ops Building

CUSTOMER: Willis Smith Construction

| REVISIONS |                                    |                |
|-----------|------------------------------------|----------------|
| A         | FOR APPROVAL                       | 3.10.15<br>TDB |
| B         | REVISED FOR APPROVAL               | 3.26.15<br>TDB |
| C         | FOR CONSTRUCTION                   | 7.10.15<br>TDB |
| D         | AREA B<br>PRIMARY & SECONDARY ONLY | 8.10.15<br>TDB |
| E         | REVISED FOR CONSTRUCTION           | 8.10.15<br>TDB |
| F         | AREA A<br>PRIMARY & SECONDARY      | 8.24.15<br>TDB |
| G         | REVISED FOR CONSTRUCTION           | 9.7.15<br>TDB  |
| H         | FOR CONSTRUCTION                   | TDB            |

DRAWING DATE  
**1/30/15**

DRAWN BY  
**TDB**

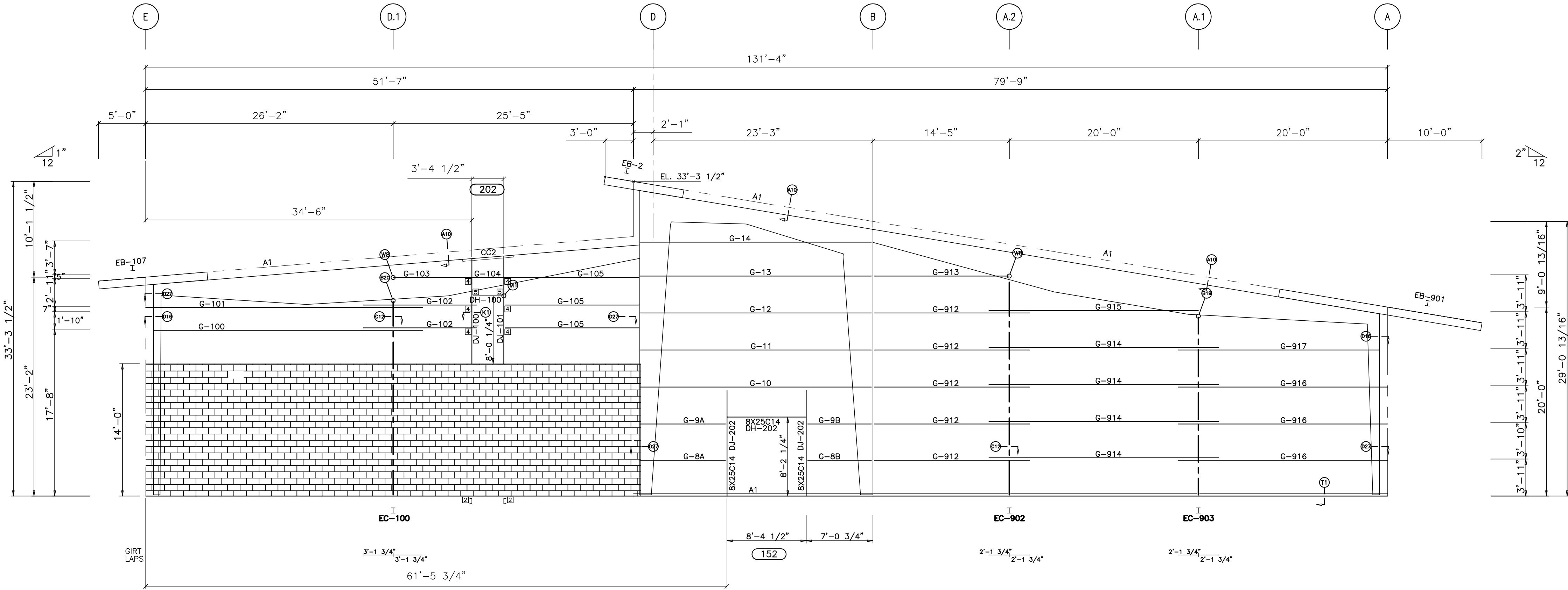
CHECKED BY  
**SS**

DRAWING SCALE  
**N.T.S.**

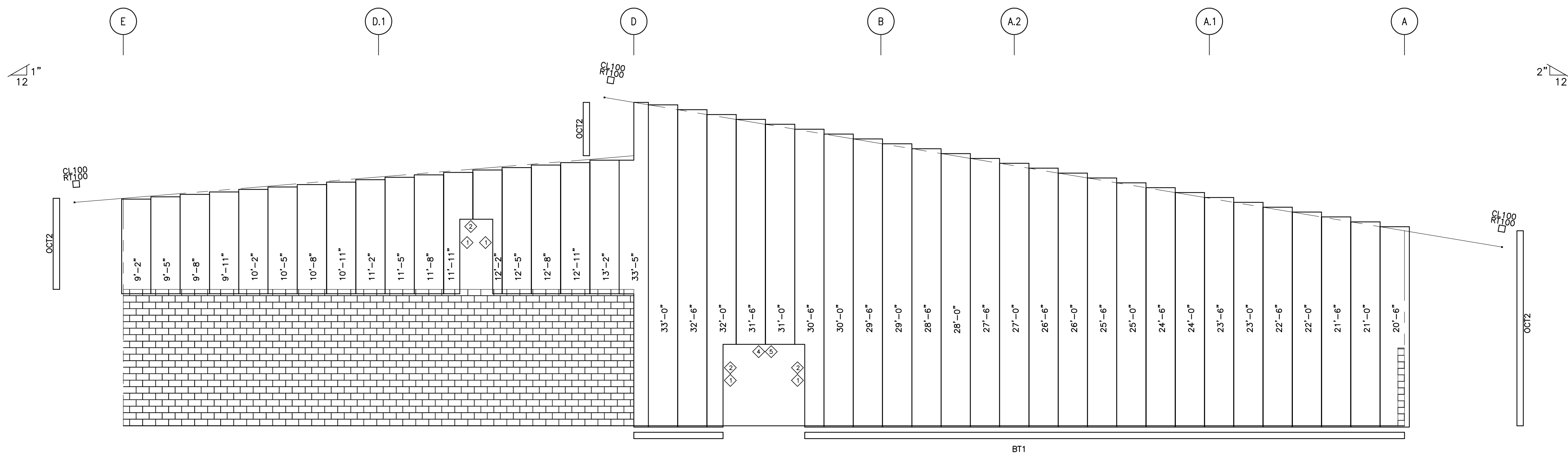
JOB NO.  
**15-011-07**

SHEET  
**E6**





ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 36" 24 Ga. TBS PBR Panel - Color: CHAMPAGNE (BUNDLE MK. EW-1)  
DS = DOWNSPOUT (SIZE = 4"x5")  
DOWNSPOUT CONNECTION TO UNDERGROUND DRAINAGE SYSTEM NOT BY T.B.S.  
R-11 VINYL FACED WALL INSULATION

| MEMBER TABLE |         |        |
|--------------|---------|--------|
| FRAME        | LINE    |        |
| MARK         | PART    | LENGTH |
| 1407368A1    |         |        |
| EB-2         | W10X12  |        |
| G-8          | 8X35Z12 |        |
| G-9          | 8X35Z12 |        |
| G-10         | 8X35Z12 |        |
| G-11         | 8X35Z12 |        |
| G-12         | 8X35Z12 |        |
| G-13         | 8X25Z12 |        |
| G-14         | 8X25Z16 |        |
| 1407368B     |         |        |
| EB-107       | W10X12  |        |
| EC-100       | W8X18   |        |
| DJ-100       | 8X25C16 |        |
| CL-100       | 8X25C14 |        |
| DH-100       | 8X25C16 |        |
| G-100        | 8X25Z14 |        |
| G-101        | 8X25Z14 |        |
| G-102        | 8X25Z14 |        |
| G-103        | 8X25Z16 |        |
| G-104        | 8X25Z16 |        |
| G-105        | 8X25Z16 |        |
| 1407368A2    |         |        |
| EB-901       | W10X22  |        |
| EC-902       | W12X16  |        |
| EC-903       | W12X14  |        |
| G-912        | 8X35Z16 |        |
| G-913        | 8X25Z16 |        |
| G-914        | 8X35Z16 |        |
| G-915        | 8X35Z16 |        |
| G-916        | 8X35Z16 |        |
| G-917        | 8X35Z14 |        |

| BOLT TABLE   |      |      |      |        |
|--------------|------|------|------|--------|
| FRAME LINE 1 |      |      |      |        |
| LOCATION     | QUAN | TYPE | DIA  | LENGTH |
| 1407368A1    |      |      |      |        |
| Columns/Raf  | 4    | A325 | 3/4" | 1 3/4" |
| Jamb         | 4    | A307 | 1/2" | 1 1/4" |
| 1407368A2    |      |      |      |        |
| Columns/Raf  | 4    | A325 | 3/4" | 1 3/4" |

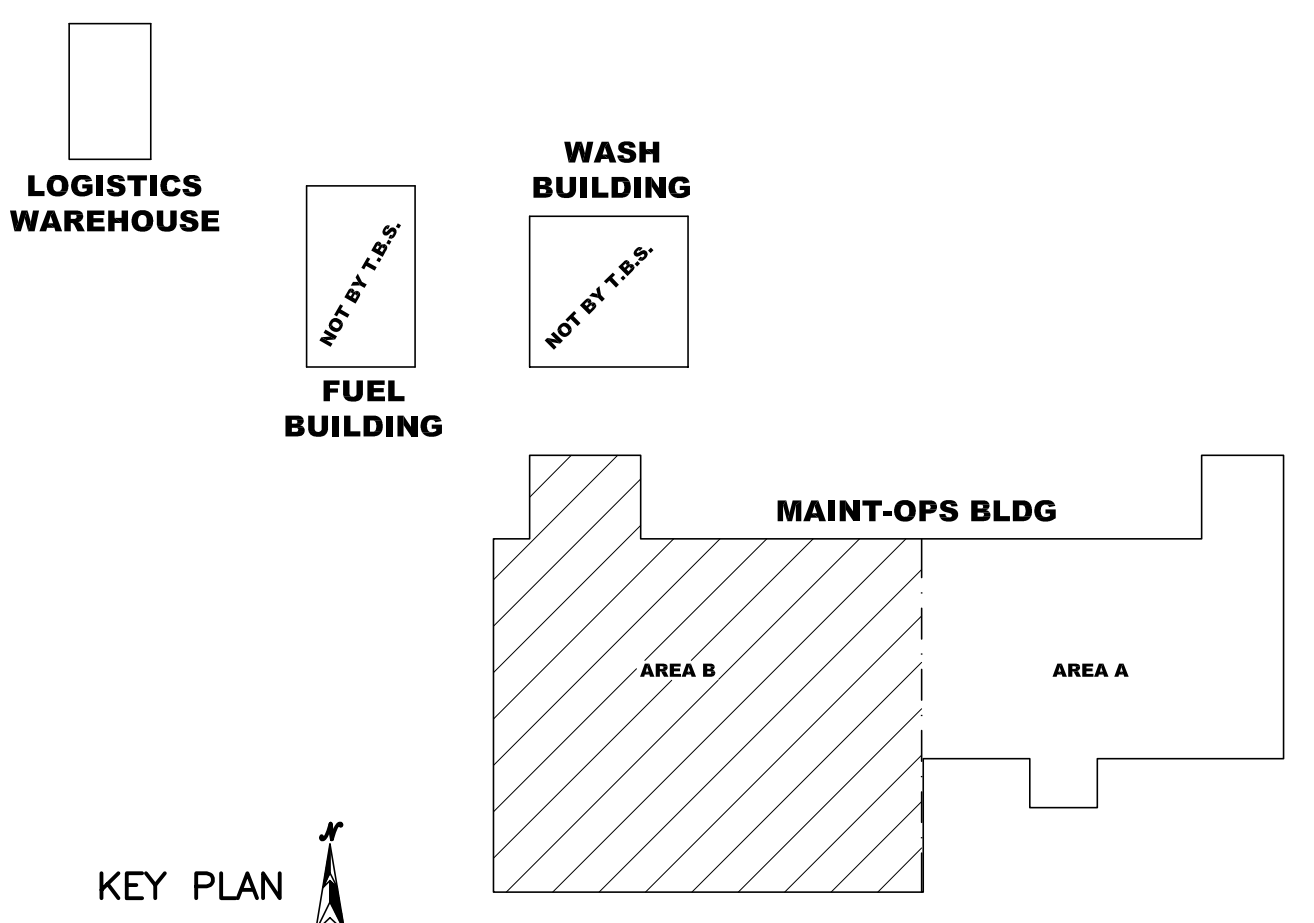
| TRIM TABLE   |       |        |        |
|--------------|-------|--------|--------|
| FRAME LINE 1 |       |        |        |
| ID           | MARK  | LENGTH | DETAIL |
| 1            | RT100 | 20'-3" | T72    |
| 2            | CL100 | 20'-3" | T72    |
| 3            | RT100 | 20'-3" | T73    |
| 4            | CL100 | 20'-3" | T73    |
| 5            | OCT2  | 20'-3" | T53    |
| 6            | JT1   | 20'-3" | T60    |
| 7            | HT1   | 20'-3" | T65    |

| CONNECTION PLATES |       |       |
|-------------------|-------|-------|
| FRAME LINE 1      |       |       |
| ID                | MARK  | PART  |
| 1                 | JCG08 | JCP08 |
| 2                 | JCG08 | JCP08 |
| 3                 | JCG08 | JCP08 |
| 4                 | JCG08 | JCP08 |
| 5                 | JCG08 | JCP08 |
| 6                 | JCG08 | JCP08 |

**Peter Wallis and Associates**  
Structural Engineers

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FOR CONSTRUCTION  
SEPTEMBER 7, 2015



**TRIDENT**  
BUILDINGSYSTEMS INC.

2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067

DESIGN PROVIDED BY :  
**PETER WALLIS**  
FLORIDA P.E.# 34418  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Endwall Framing & Sheeting Elevation  
Maint-Ops Building

CUSTOMER: Willis Smith Construction

| REVISIONS |                                                           |                |
|-----------|-----------------------------------------------------------|----------------|
| 1         | FOR APPROVAL                                              | 3.10.15<br>TDB |
| 2         | REVISED FOR APPROVAL                                      | 3.26.15<br>TDB |
| 3         | FOR CONSTRUCTION<br>AREA B<br>PRIMARY & SECONDARY ONLY    | 7.10.15<br>TDB |
| 4         | REVISED FOR CONSTRUCTION<br>AREA A<br>PRIMARY & SECONDARY | 8.10.15<br>TDB |
| 5         | REVISED FOR CONSTRUCTION                                  | 8.24.15<br>TDB |
| 6         | FOR CONSTRUCTION                                          | 9.7.15<br>TDB  |

DRAWING DATE  
**1/30/15**

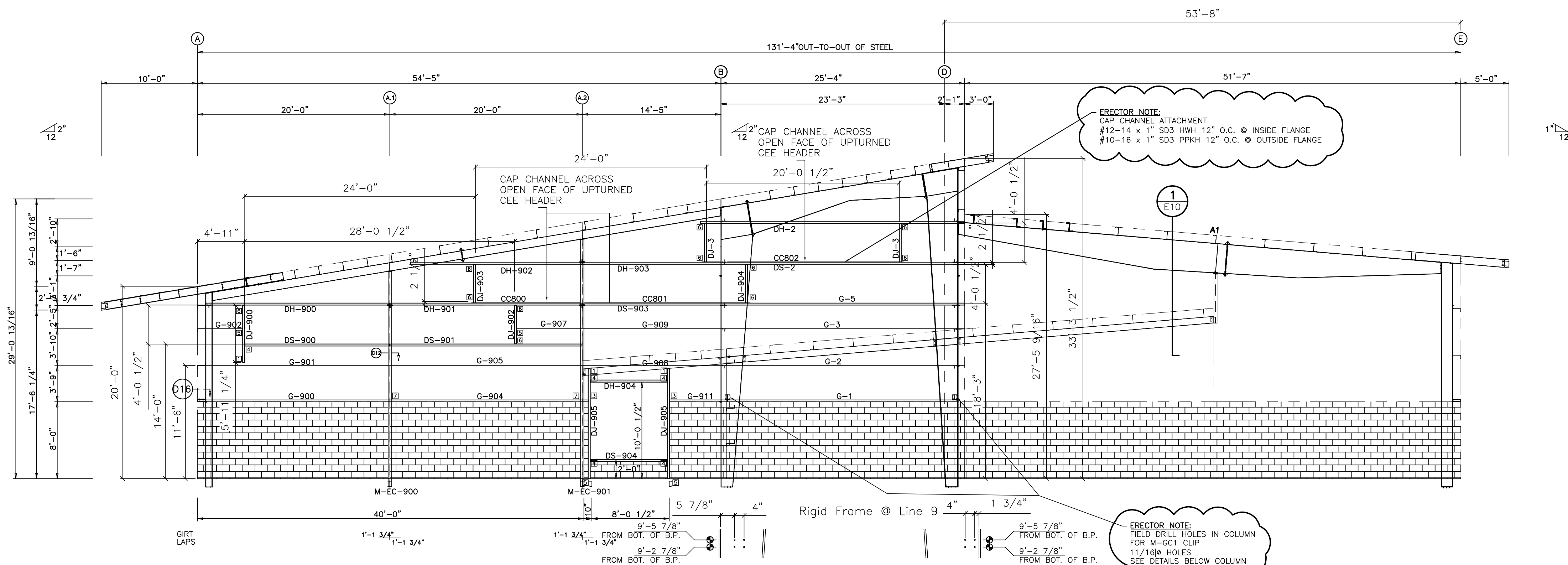
DRAWN BY  
**TDB**

CHECKED BY  
**SS**

DRAWING SCALE  
**N.T.S.**

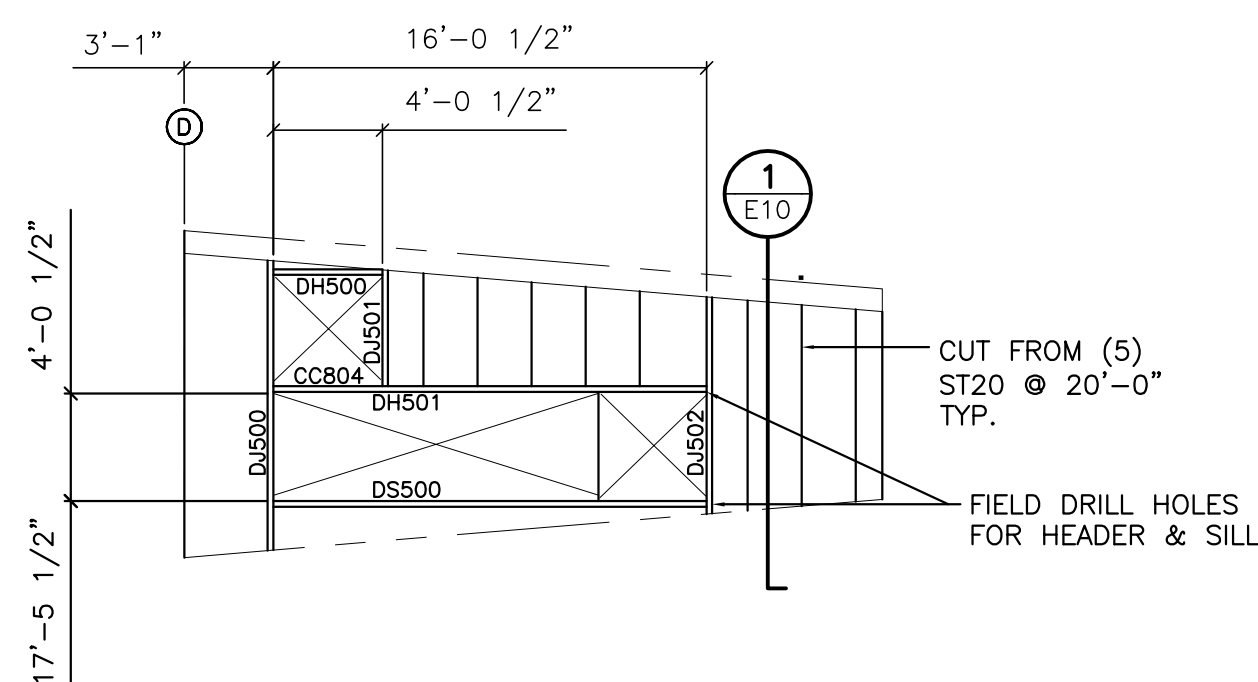
JOB NO.  
**15-011-07**

SHEET  
**E9**



### ENDWALL FRAMING: FRAME LINE 9

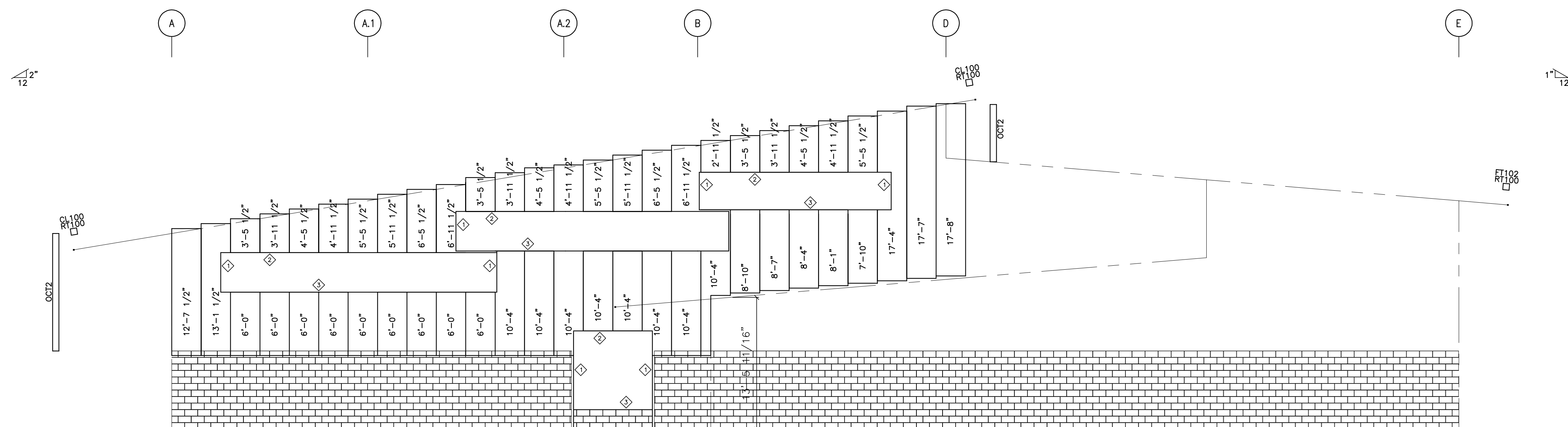
G.C. NOTE:  
FRAMED OPENING JAMBS TO BE INSTALLED PRIOR TO MASONRY WALL.  
SEE DETAILS E6/D1 & T92/D4.



### ENDWALL SHEETING & TRIM: EAST OF FRAME LINE 10

PANELS: 36" 24 Ga. TBS PBR Panel - Color: CHAMPAGNE (BUNDL MK. EW-10)  
R-11 VINYL FACED WALL INSULATION

### ENDWALL FRAMING: EAST OF FRAME LINE 10



### ENDWALL SHEETING & TRIM: FRAME LINE 9

PANELS: 36" 24 Ga. TBS PBR Panel - Color: CHAMPAGNE (BUNDLE MK. EW-9)  
DS = DOWNSPOUT (SIZE = 4"x5")  
DOWNSPOUT CONNECTION TO UNDERGROUND DRAINAGE SYSTEM **NOT** BY T.B.S.  
R-11 VINYL FACED WALL INSULATION

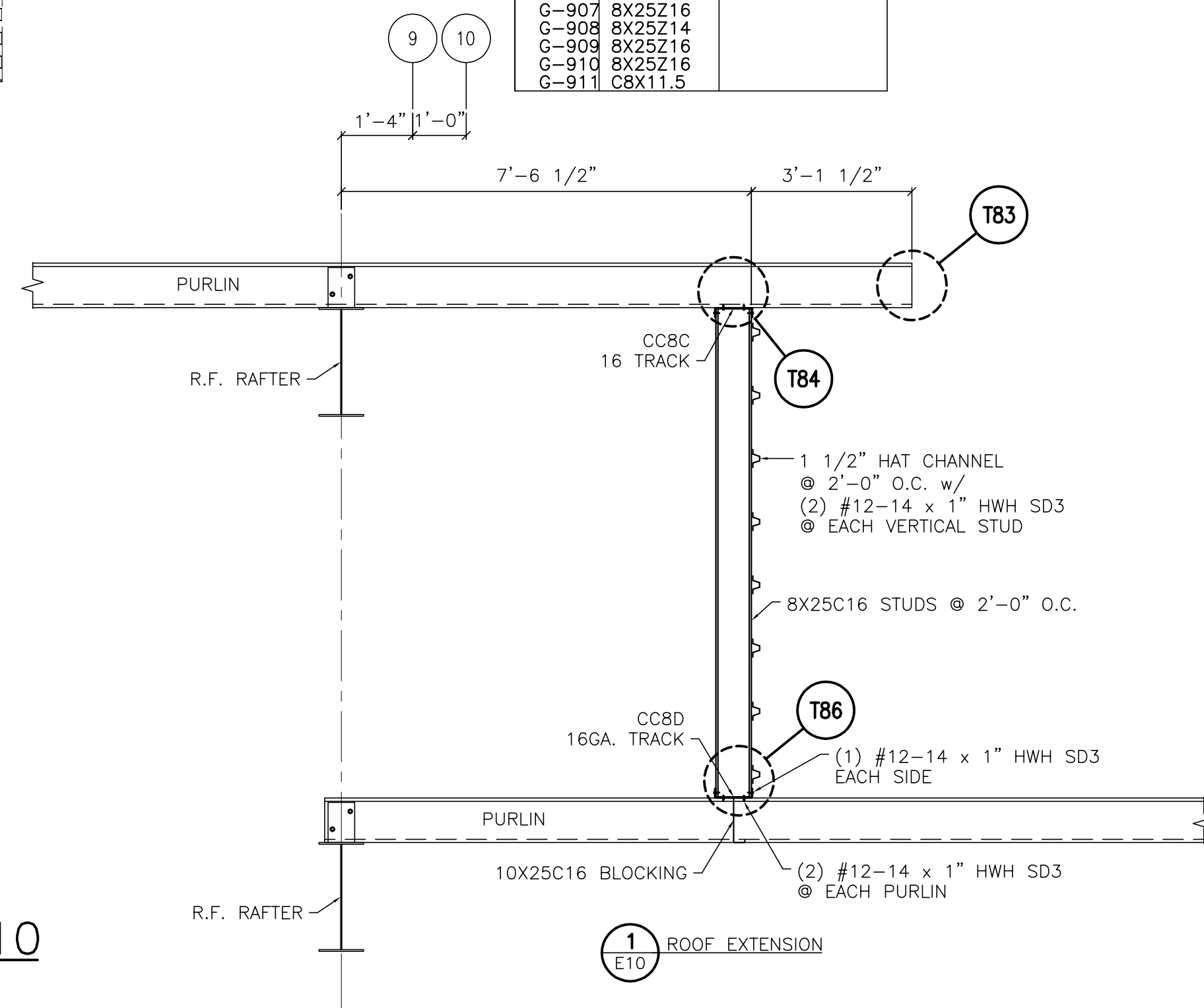
| MEMBER TABLE |         |        |
|--------------|---------|--------|
| MARK         | PART    | LENGTH |
| 1407368A1    |         |        |
| EB-2         | W10X12  |        |
| DJ-1         | 8X25C16 |        |
| DJ-2         | 8X35C16 |        |
| DJ-3         | 8X25C16 |        |
| DH-1         | 8X25C16 |        |
| DH-2         | 8X25C14 |        |
| DS-1         | 8X25C16 |        |
| DS-2         | 8X25C16 |        |
| G-1          | C8X18.5 |        |
| G-2          | 8X35Z12 |        |
| G-3          | 8X35Z12 |        |
| G-4          | 8X25Z16 |        |
| G-5          | 8X25Z16 |        |
| G-6          | 8X25Z14 |        |
| G-7          | 8X25Z16 |        |
| 1407368B     |         |        |
| EB-1011      | W10X12  |        |
| 1407368A2    |         |        |
| EB-904       | W10X33  |        |
| EC-900       | W12X16  |        |
| EC-901       | W10X19  |        |
| DJ-900       | 8X25C14 |        |
| DJ-901       | 8X25C16 |        |
| DJ-902       | 8X25C14 |        |
| DJ-903       | 8X25C16 |        |
| DJ-904       | 8X25C16 |        |
| DH-905       | 8X25C16 |        |
| DH-906       | 8X25C14 |        |
| DH-907       | 8X35C16 |        |
| DH-908       | 8X25C14 |        |
| DH-909       | 8X25C16 |        |
| DS-900       | C8X18.5 |        |
| DS-901       | 8X25C14 |        |
| DS-902       | 8X25C14 |        |
| DS-903       | 8X25C16 |        |
| DS-904       | 8X25C16 |        |
| G-900        | C8X18.5 |        |
| G-901        | 8X25Z12 |        |
| G-902        | 8X25Z16 |        |
| G-903        | 8X25Z16 |        |
| G-904        | C8X18.5 |        |
| G-905        | 8X25Z16 |        |
| G-906        | 8X25Z14 |        |
| G-907        | 8X25Z16 |        |
| G-908        | 8X25Z14 |        |
| G-909        | 8X25Z16 |        |
| G-910        | 8X25Z16 |        |
| G-911        | C8X11.5 |        |

| BOLT TABLE   |      |      |      |        |
|--------------|------|------|------|--------|
| FRAME LINE 9 |      |      |      |        |
| LOCATION     | QUAN | TYPE | DIA  | LENGTH |
| 1407368A1    |      |      |      |        |
| 1407368B     |      |      |      |        |
| 1407368D1    |      |      |      |        |
| 1407368D2    |      |      |      |        |
| 1407368A2    |      |      |      |        |
| Columns/Ref  | 4    | A325 | 5/8" | 1 1/4" |
| Jamb         | 4    | A307 | 1/2" | 1 1/4" |

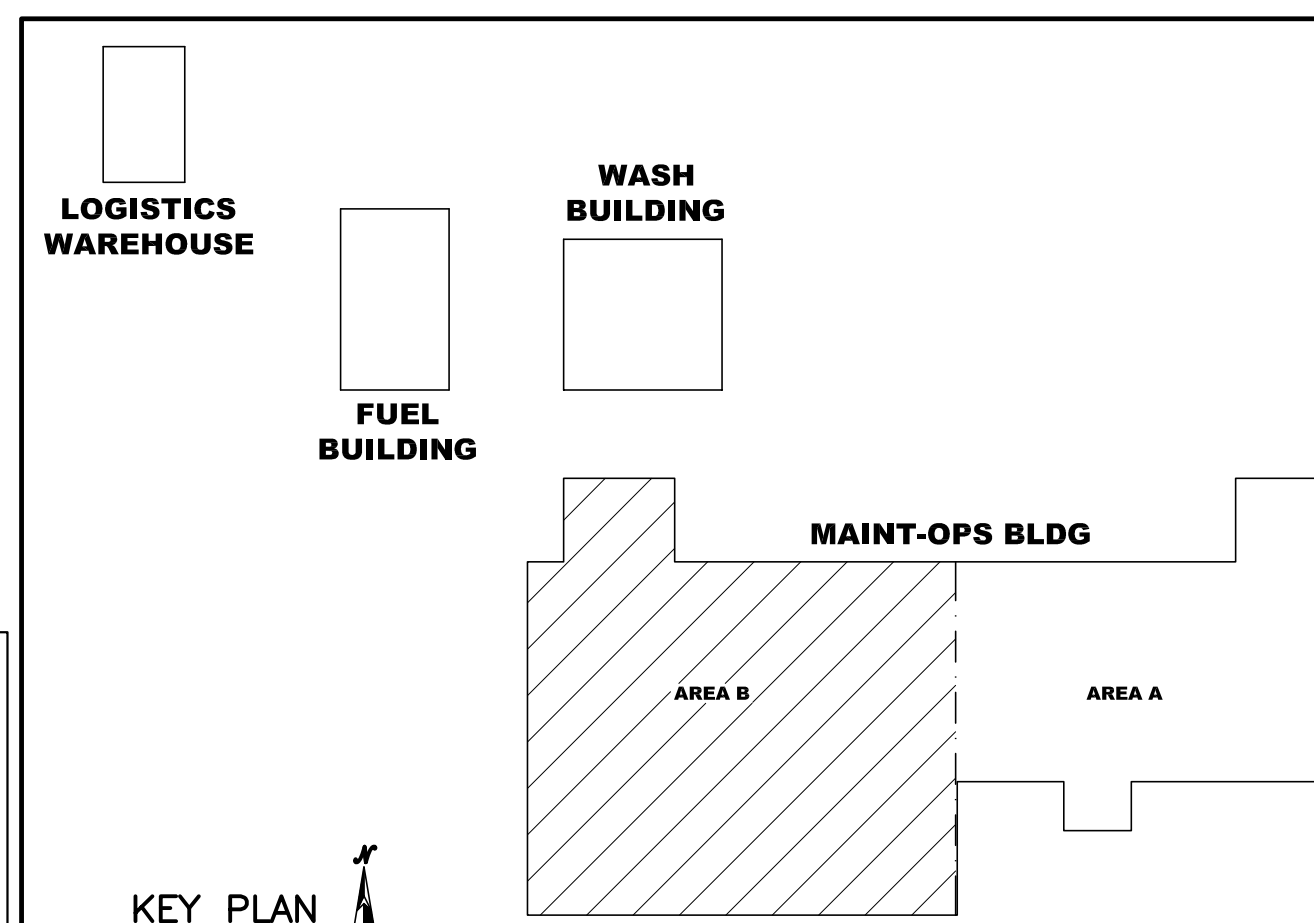
| TRIM TABLE   |       |        |        |  |
|--------------|-------|--------|--------|--|
| FRAME LINE 9 |       |        |        |  |
| ID           | MARK  | LENGTH | DETAIL |  |
|              | RT100 | 20'-3" | T72    |  |
|              | CL100 | 20'-3" | T72    |  |
|              | RT100 | 20'-3" | T82    |  |
|              | FT102 | 20'-3" | T82    |  |
|              | RT100 | 20'-3" | T75    |  |
|              | CL100 | 20'-3" | T73    |  |
|              | RT100 | 20'-3" | T83    |  |
|              | FT102 | 20'-3" | T83    |  |
|              | OCT2  | 20'-3" | T53    |  |
| 1            | JT1   | 20'-3" | T60    |  |
| 2            | HT1   | 20'-3" | T66    |  |
| 3            | SLT1  | 20'-3" | T68    |  |
| 4            | .     | .      | .      |  |
| 5            | .     | .      | .      |  |

| ANGLE & STRAPPING TABLE |      |        |        |  |
|-------------------------|------|--------|--------|--|
| FRAME LINE 9            |      |        |        |  |
| ID                      | MARK | LENGTH | DETAIL |  |
|                         | GST  | 20'-0" | AN1    |  |

| CONNECTION PLATES |                |      |  |
|-------------------|----------------|------|--|
| FRAME LINE 9      |                |      |  |
| ID                | MARK           | PART |  |
| 1                 | JTC-1          |      |  |
| 2                 |                |      |  |
| 3                 | JCG08A & JCP08 |      |  |
| 4                 | HJC08          |      |  |
| 5                 | JCG08 & JCP08  |      |  |
| 6                 | JTC-3          |      |  |
| 7                 | M-GC2          |      |  |



**FOR CONSTRUCTION  
SEPTEMBER 7, 2015**



**Peter Wallis and Associates**  
**Structural Engineers**

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**TRIDENT**  
BUILDINGSYSTEMS INC.

2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067

DESIGN PROVIDED BY :  
**PETER WALLIS**  
FLORIDA P.E. # 34418

FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Endwall Framing & Sheeting Elevation  
Maint-Ops Building

CUSTOMER: Willis Smith Construction

| REVISIONS                                           |     |         |
|-----------------------------------------------------|-----|---------|
| FOR APPROVAL                                        | TDB | 3.10.15 |
| REVISED FOR APPROVAL                                | TDB | 3.26.15 |
| FOR CONSTRUCTION                                    | TDB | 7.10.15 |
| AREA B PRIMARY & SECONDARY ONLY                     | TDB | 7.29.15 |
| REVISED FOR CONSTRUCTION                            | TDB | 8.10.15 |
| AREA A (LINES 9 thru 11.9) PRIMARY & SECONDARY ONLY | TDB | 8.24.15 |
| REVISED FOR CONSTRUCTION                            | TDB | 9.7.15  |
| FOR CONSTRUCTION                                    | TDB |         |

DRAWING DATE  
**1/30/15**

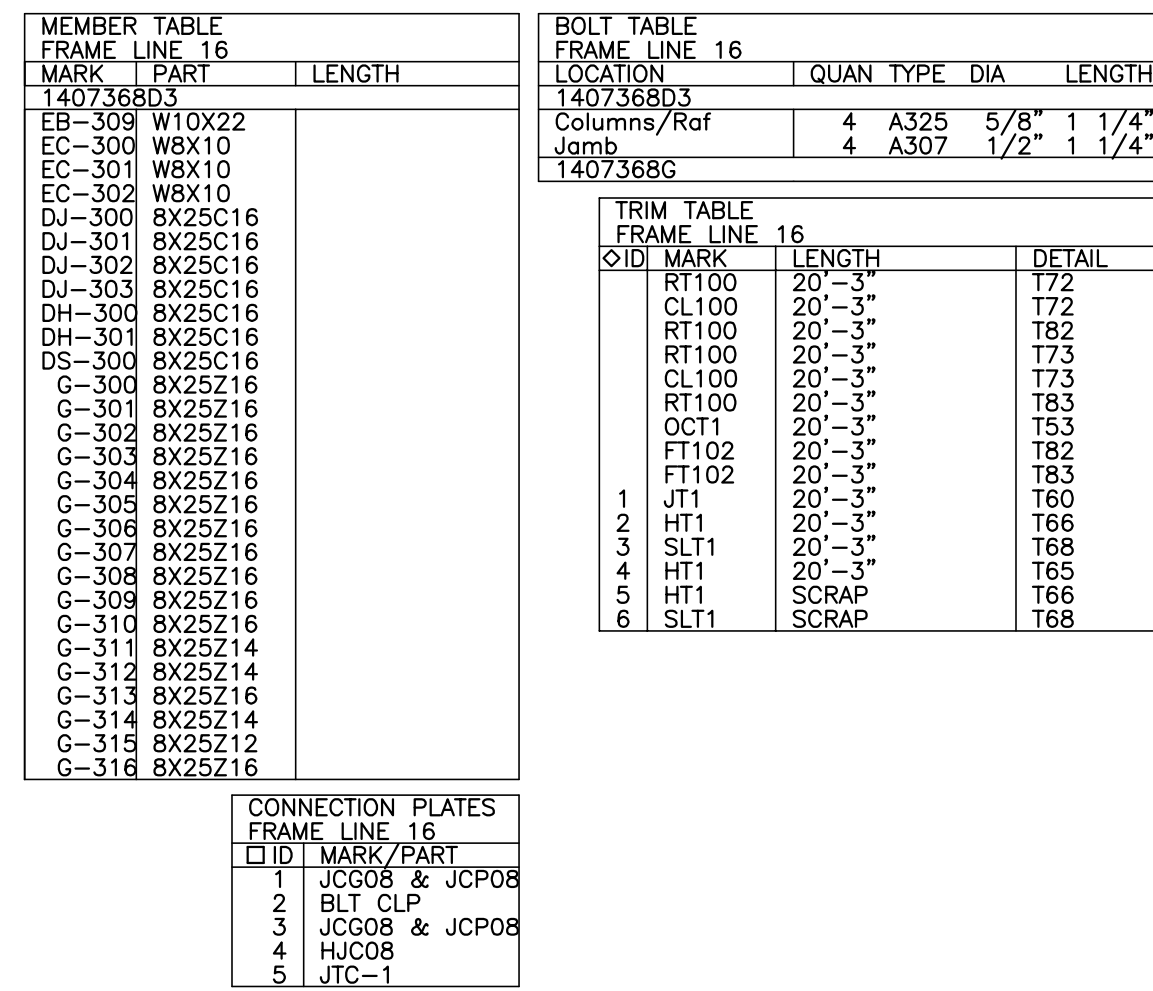
DRAWN BY  
**TDB**

CHECKED BY  
**SS**

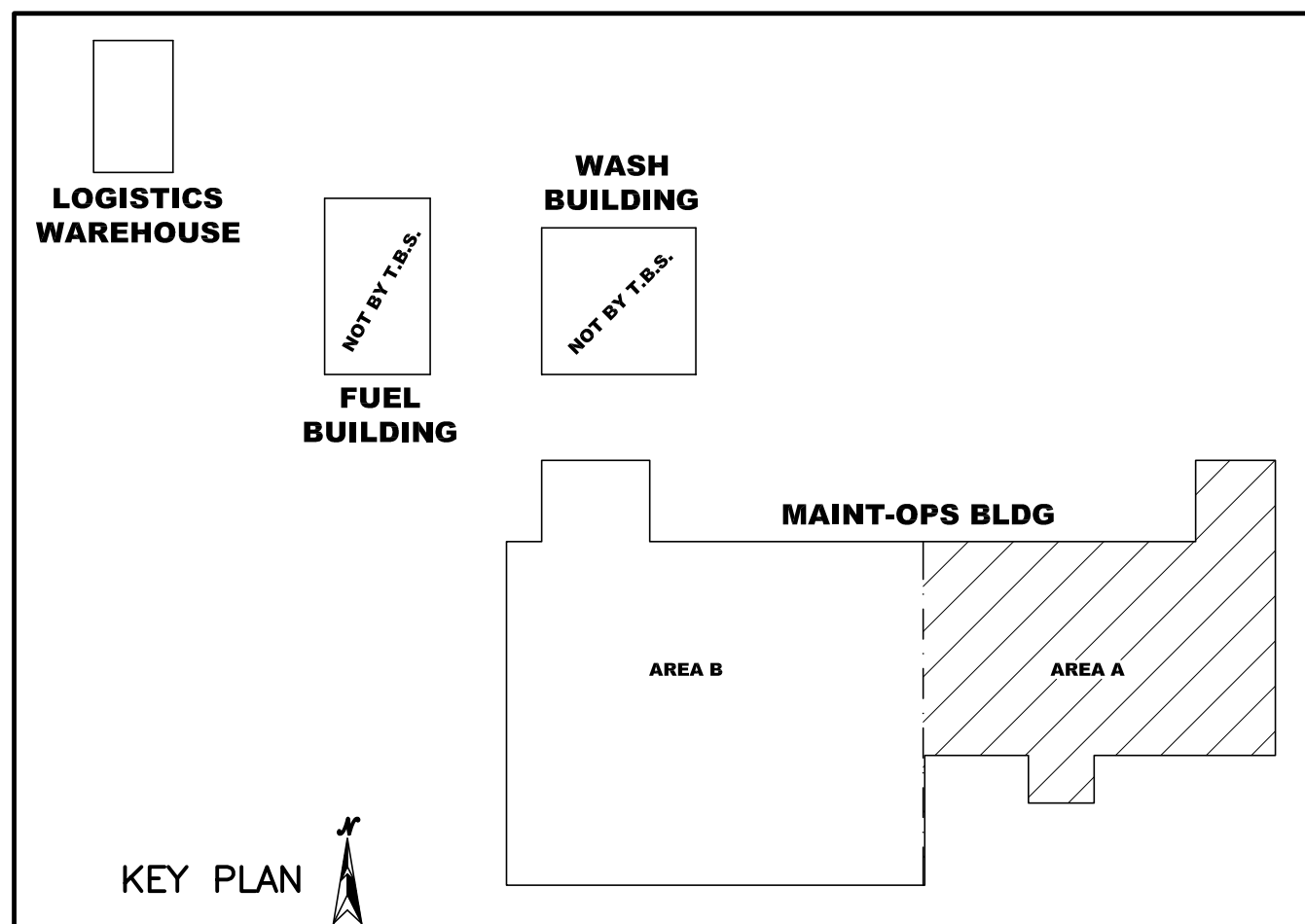
DRAWING SCALE  
**N.T.S.**

JOB NO.  
**15-011-07**

SHEET  
**E10**

GIR  
LAP

PANELS: 36" 24 Ga. TBS PBR Panel - Color: SANDSTONE  
R-11 VINYL FACED WALL INSULATION



**Peter Wallis and Associates**  
**Structural Engineers**

  
2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-555-7073 • Fax: 941-555-5067

DESIGN PROVIDED BY :  
**PETER WALLIS**  
**FLORIDA P.E.# 34418**  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
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SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Endwall Framing & Sheeting Elevation  
Maint-Ops Building

---

CUSTOMER: Willis Smith Construction

| REVISIONS |                                                           |               |
|-----------|-----------------------------------------------------------|---------------|
| A         | FOR APPROVAL                                              | 3.10.1<br>TDB |
| B         | REVISED FOR APPROVAL                                      | 3.26.1<br>TDB |
| 1         | FOR CONSTRUCTION<br>AREA B<br>PRIMARY & SECONDARY ONLY    | 7.10.1<br>TDB |
| 4         | REVISED FOR CONSTRUCTION<br>AREA A<br>PRIMARY & SECONDARY | 8.10.1<br>TDB |
| 5         | REVISED FOR CONSTRUCTION<br>AREA A<br>PANEL & TRIM        | 8.18.1<br>TDB |
| 6         | REVISED FOR CONSTRUCTION                                  | 8.24.1<br>TDB |
| 8         | FOR CONSTRUCTION                                          | 9.7.15<br>TDB |
|           |                                                           |               |
|           |                                                           |               |

DRAWING DATE  
1/30/15

DRAWN BY  
TDB

CHECKED BY  
SS

DRAWING SCALE  
N.T.S.

JOB NO.  
15-0111-07

SHEET  
E11

33'-3 1/2"  
23'-2"  
17'-9"  
5'-7"  
4'-8"  
4'-0 1/2"  
1'-1 1/2"

| FLANGE BRACE TABLE |       |        |          |            |                |  |
|--------------------|-------|--------|----------|------------|----------------|--|
| ▽ ID               | SIDES | MARK   | PART     | LENGTH     | BRACE DISTANCE |  |
| 1                  | 1     | FB30.5 | L2X2X1/8 | 2'-6 1/2"  | 2'-4"          |  |
| 2                  | 1     | FB36.5 | L2X2X1/8 | 3'-0 1/2"  | 2'-4"          |  |
| 3                  | 1     | FB57.5 | L2X2X1/8 | 4'-9 1/2"  | 3'-4"          |  |
| 4                  | 1     | FB60   | L2X2X1/8 | 5'-1"      | 3'-4"          |  |
| 5                  | 1     | FB61   | L2X2X1/8 | 5'-1"      | 3'-4"          |  |
| 6                  | 1     | FB70.5 | L2X2X1/8 | 5'-10 1/2" | 4'-4"          |  |
| 7                  | 1     | FB58.5 | L2X2X1/8 | 4'-10 1/2" | 3'-4"          |  |
| 8                  | 1     | FB42.5 | L2X2X1/8 | 3'-6 1/2"  | 2'-4"          |  |
| 9                  | 1     | FB36   | L2X2X1/8 | 3'-0"      | 2'-4"          |  |

| FLANGE BRACE TABLE |       |        |          |           |                |
|--------------------|-------|--------|----------|-----------|----------------|
| ▽ ID               | SIDES | MARK   | PART     | LENGTH    | BRACE DISTANCE |
| 10                 | 1     | FB53   | L2X2X1/8 | 4'-5"     | 3'-4"          |
| 11                 | 1     | FB38   | L2X2X1/8 | 3'-2"     | 2'-4"          |
| 12                 | 1     | FB52.5 | L2X2X1/8 | 4'-4 1/2" | 3'-4"          |

| FLANGE BRACE TABLE |       |        |          |            |                |
|--------------------|-------|--------|----------|------------|----------------|
| ▽ ID               | SIDES | MARK   | PART     | LENGTH     | BRACE DISTANCE |
| 13                 | 1     | FB32.5 | L2X2X12G | 2'-8 1/2"  | 2'-4"          |
| 14                 | 1     | FB35.5 | L2X2X12G | 2'-11 1/2" | 2'-4"          |
| 15                 | 1     | FB53.5 | L2X2X12G | 4'-5 1/2"  | 3'-4"          |
| 16                 | 1     | FB58.5 | L2X2X12G | 4'-10 1/2" | 3'-4"          |
| 17                 | 1     | FB36   | L2X2X12G | 3'-0"      | 2'-4"          |
| 18                 | 1     | FB58   | L2X2X12G | 4'-10"     | 3'-4"          |

| MEMBER TABLE |        |           |           |                |                   |                   |  |
|--------------|--------|-----------|-----------|----------------|-------------------|-------------------|--|
| Mark         | Length | Web Depth | Web Plate | Outside Flange |                   | Inside Flange     |  |
|              |        | Start/End | Thick     | Length         | W x Thk x Length  | W x Thk x Length  |  |
| RF1-100      | 280.8  | 7.7/7.9   | 0.135     | 41.8           | 6 x 1/4" x 280.0  | 6 x 1/4" x 266.5  |  |
| RF1-101      | 272.3  | 7.9/9.0   | 0.135     | 239.0          | 6 x 1/4" x 9.3    | 6 x 5/16" x 184.2 |  |
|              |        | 41.3/43.0 | 0.188     | 194.2          | 6 x 1/4" x 271.4  | 6 x 5/16" x 90.4  |  |
| RF1-102      | 337.2  | 43.0/45.0 | 0.188     | 100.6          | 6 x 1/4" x 336.2  | 6 x 5/16" x 88.7  |  |
|              |        | 43.7/18.1 | 0.188     | 235.5          |                   | 6 x 5/16" x 247.4 |  |
| MEMBER TABLE |        |           |           |                |                   |                   |  |
| Mark         | Length | Web Depth | Web Plate | Outside Flange |                   | Inside Flange     |  |
|              |        | Start/End | Thick     | Length         | W x Thk x Length  | W x Thk x Length  |  |
| RF2-1        | 350.6  | 14.9/20.2 | 0.188     | 76.6           | 10 x 3/8" x 349.7 | 10 x 5/8" x 316.4 |  |
|              |        | 20.2/37.0 | 0.188     | 239.0          | 10 x 3/8" x 31.2  |                   |  |
| RF2-2        | 222.6  | 37.0/30.5 | 0.313     | 39.2           | 6 x 1/4" x 127.4  | 6 x 5/16" x 128.5 |  |
|              |        | 36.0/20.7 | 0.250     | 139.4          | 6 x 1/4" x 93.9   | 6 x 5/16" x 94.8  |  |
| RF2-3        | 400.0  | 20.7/32.0 | 0.250     | 81.9           | 10 x 1/2" x 53.1  | 10 x 1/2" x 357.1 |  |
|              |        | 43.9/24.6 | 0.313     | 239.0          | 10 x 1/2" x 398.9 |                   |  |
|              |        | 24.6/13.7 | 0.313     | 159.9          |                   |                   |  |
| MEMBER TABLE |        |           |           |                |                   |                   |  |
| Mark         | Length | Web Depth | Web Plate | Outside Flange |                   | Inside Flange     |  |
|              |        | Start/End | Thick     | Length         | W x Thk x Length  | W x Thk x Length  |  |
| RF2-900      | 243.5  | 7.7/8.1   | 0.135     | 12.0           | 6 x 5/16" x 242.7 | 6 x 1/2" x 230.0  |  |
| RF2-901      | 307.5  | 8.1/15.0  | 0.135     | 233.3          | 6 x 5/16" x 15.5  | 6 x 1/4" x 226.6  |  |
|              |        | 15.0/40.0 | 0.188     | 237.2          | 6 x 1/4" x 306.5  | 6 x 1/4" x 83.8   |  |
| RF2-902      | 328.3  | 40.0/40.0 | 0.188     | 71.8           | 6 x 1/4" x 327.3  | 6 x 1/4" x 87.8   |  |
|              |        | 40.0/40.0 | 0.188     | 99.8           |                   | 6 x 1/4" x 238.0  |  |
|              |        | 38.8/16.1 | 0.188     | 227.5          |                   |                   |  |

| SPUCE BOLT TABLE |     |     |     |     |      |            |
|------------------|-----|-----|-----|-----|------|------------|
| Mark             | Qty | Top | Bot | Int | Type | Dia Length |
| SP-1             | 4   | +   | +   | 0   | A325 | 0.625 2.00 |
| SP-2             | 4   | +   | +   | 0   | A325 | 0.750 2.00 |
| SP-3             | 4   | +   | +   | 0   | A325 | 0.750 2.00 |

| SPUCE BOLT TABLE |     |     |     |     |      |            |
|------------------|-----|-----|-----|-----|------|------------|
| Mark             | Qty | Top | Bot | Int | Type | Dia Length |
| SP-1             | 4   | +   | +   | 2   | A325 | 0.625 2.50 |

M-RF2-5  
W10X26 ON F.S.  
OF COL. ATTACH W/(2)  
5/8" Ø A325 BOLTS  
@ 48" O.C. VERT.  
(MEMBER IS PERP.  
TO MAIN FRAME COL.).

| SPUCE BOLT TABLE |     |     |     |     |      |            |
|------------------|-----|-----|-----|-----|------|------------|
| Mark             | Qty | Top | Bot | Int | Type | Dia Length |
| SP-1             | 4   | +   | +   | 0   | A325 | 0.625 2.00 |
| SP-2             | 4   | +   | +   | 0   | A325 | 0.750 2.00 |
| SP-3             | 4   | +   | +   | 0   | A325 | 0.750 2.00 |

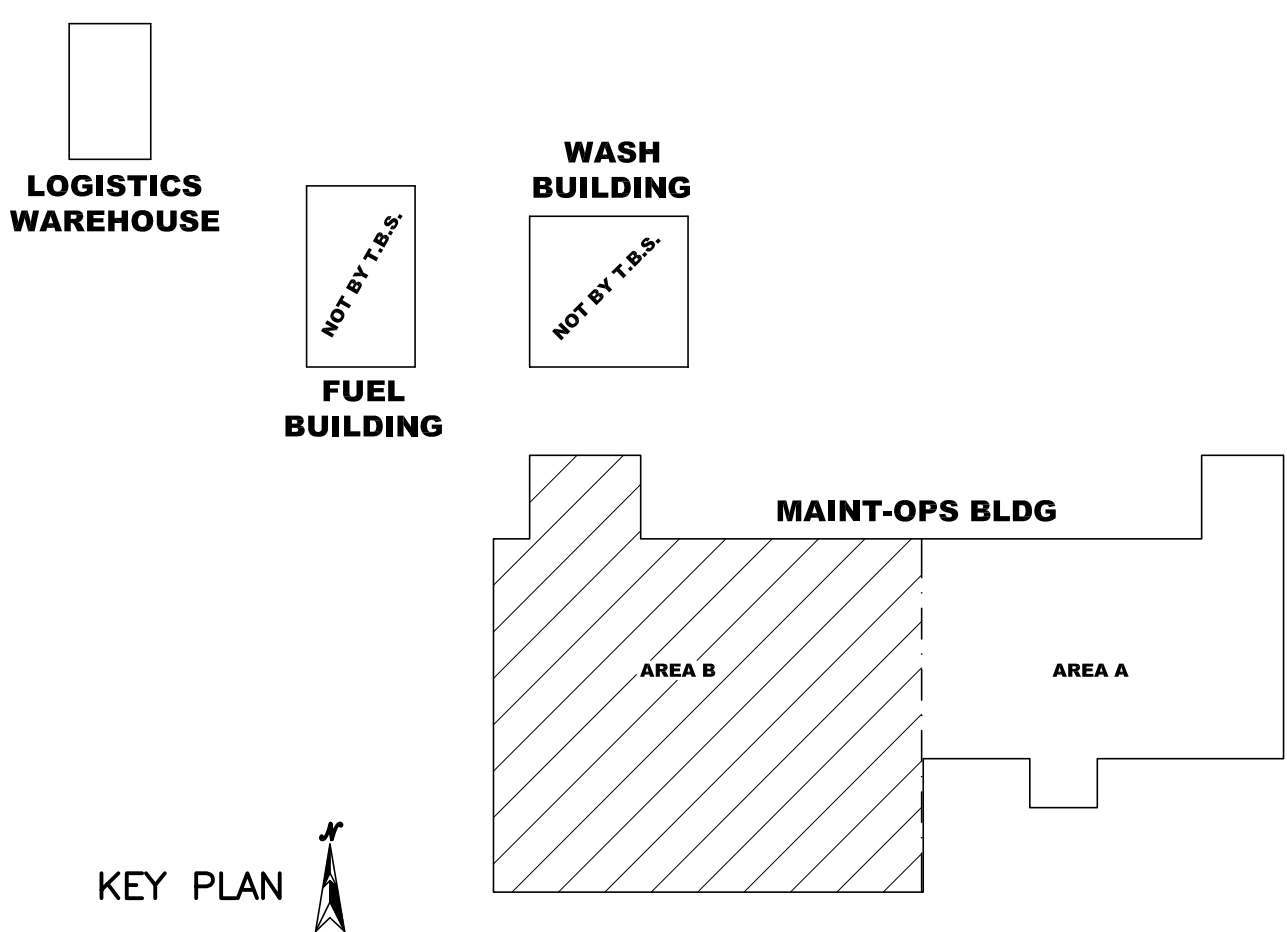
M-RF2-4  
W10X12 ON F.S.  
OF COL. ATTACH W/(2)  
5/8" Ø A325 BOLTS  
@ 48" O.C. VERT.  
(MEMBER IS PERP.  
TO MAIN FRAME COL.).

RIGID FRAME ELEVATION: FRAME LINE 1

**Peter Wallis and Associates**  
**Structural Engineers**

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sarasota, fl 34240 peter.wallis.eng@gmail.com

FOR CONSTRUCTION  
SEPTEMBER 7, 2015



| REVISIONS |                          |         |
|-----------|--------------------------|---------|
| A         | FOR APPROVAL             | 3.10.15 |
| B         | REVISED FOR APPROVAL     | 3.26.15 |
| C         | REVISED FOR CONSTRUCTION | 6.22.15 |
| D         | FOR CONSTRUCTION         | 7.10.15 |
| E         | PRIMARY & SECONDARY ONLY | TDB     |
| F         | REVISED FOR CONSTRUCTION | 8.10.15 |
| G         | REVISED FOR CONSTRUCTION | TDB     |
| H         | FOR CONSTRUCTION         | 9.7.15  |
| I         |                          | TDB     |
| J         |                          |         |
| K         |                          |         |

|               |           |
|---------------|-----------|
| DRAWING DATE  | 1/30/15   |
| DRAWN BY      | TDB       |
| CHECKED BY    | SS        |
| DRAWING SCALE | N.T.S.    |
| JOB NO.       | 15-011-07 |
| SHEET         | E12       |

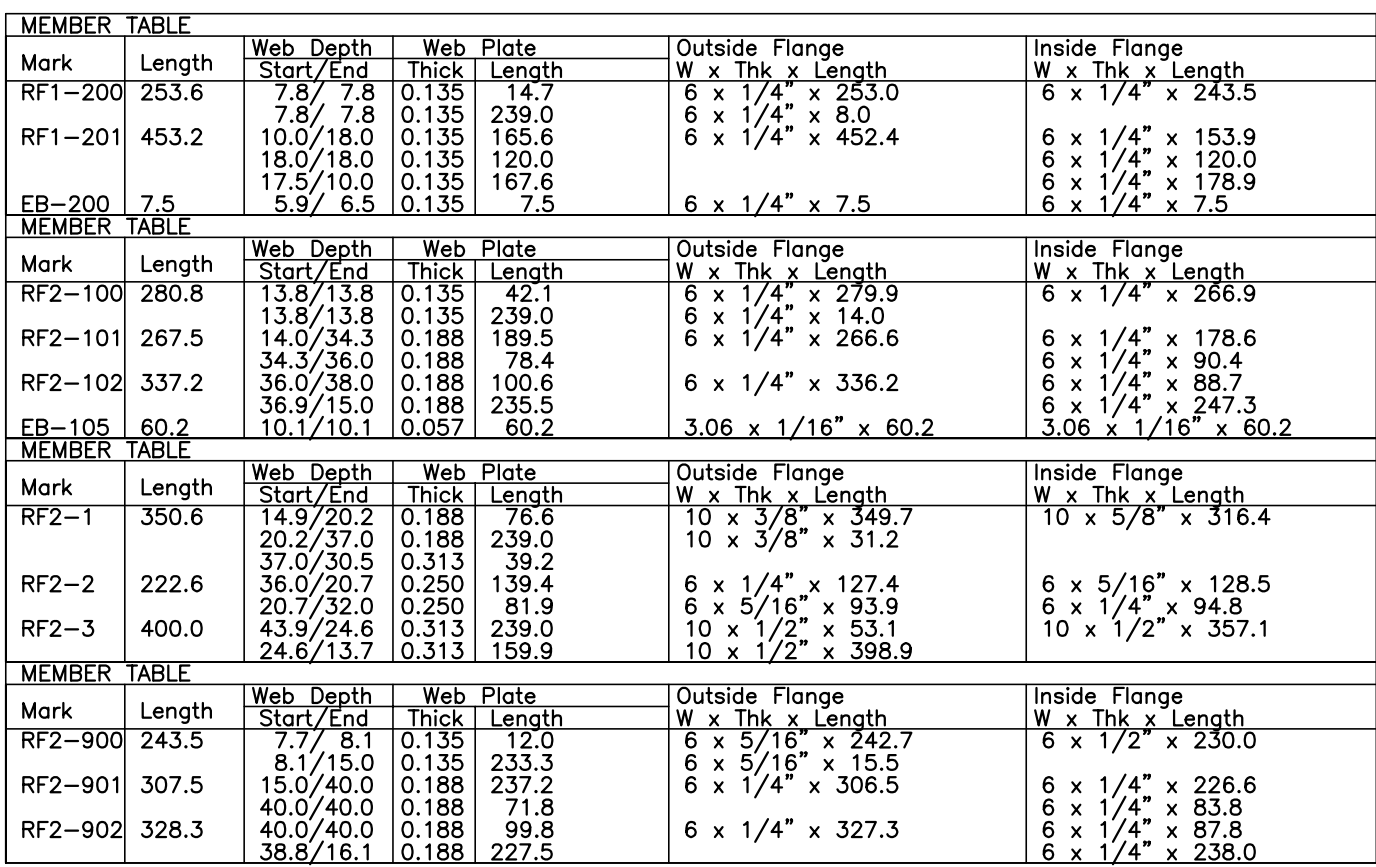
DESIGN PROVIDED BY :  
**PETER WALLIS**  
**FLORIDA P.E.# 34418**  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Rigid Frame Elevation  
Maint-Ops Building

CUSTOMER: Willis Smith Construction

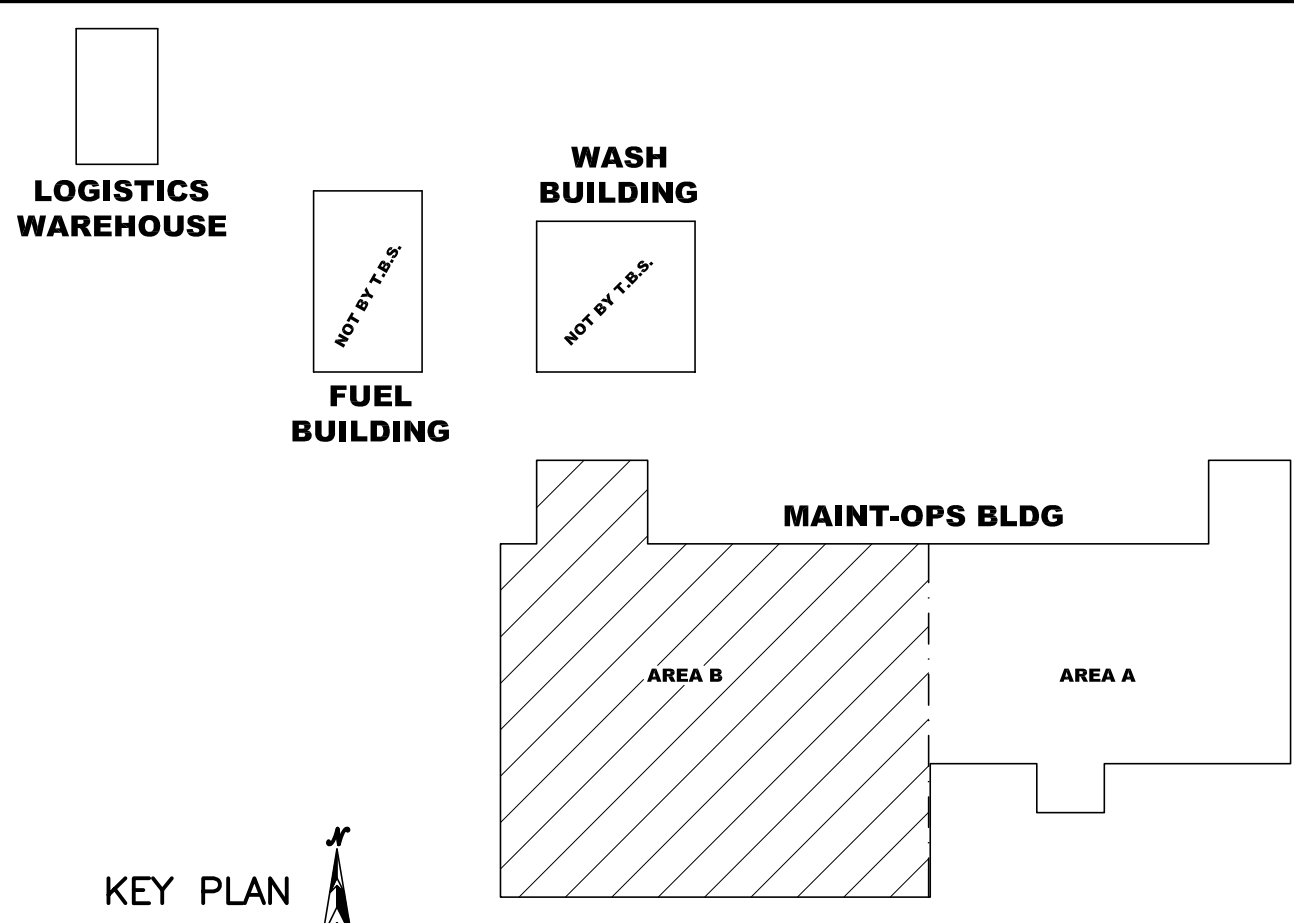
**TRIDENT**  
BUILDINGSYSTEMS INC.

2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067



| ∇ ID | # SIDES | MARK   | PART     | LENGTH     | BRACE DISTANCE |
|------|---------|--------|----------|------------|----------------|
| 20   | 1       | FB32.5 | L2X2X12G | 2'-8 1/2"  | 2'-4"          |
| 21   | 1       | FB35.5 | L2X2X12G | 2'-11 1/2" | 2'-4"          |
| 22   | 1       | FB53.5 | L2X2X12G | 4'-5 1/2"  | 3'-4"          |
| 23   | 1       | FB58.5 | L2X2X12G | 4'-10 1/2" | 3'-4"          |
| 24   | 1       | FB36   | L2X2X12G | 3'-0"      | 2'-4"          |
| 25   | 1       | FB58   | L2X2X12G | 4'-10"     | 3'-4"          |

**FOR CONSTRUCTION  
SEPTEMBER 7, 2015**



**Peter Wallis and Associates**  
**Structural Engineers**

FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #26156

7313 merchant court,  
sarasota, fl 34240

tel. 941-907-9192  
peter.wallis.eng@gmail.com

| REVISIONS                                                                             |                                                           |         |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|
|  | FOR APPROVAL                                              | 3.10.15 |
|                                                                                       |                                                           | TDB     |
|  | REVISED FOR APPROVAL                                      | 3.26.15 |
|                                                                                       |                                                           | TDB     |
|  | REVISED FOR CONSTRUCTION                                  | 6.22.15 |
|                                                                                       |                                                           | JCC     |
|  | FOR CONSTRUCTION<br>AREA B<br>PRIMARY & SECONDARY ONLY    | 7.10.15 |
|                                                                                       |                                                           | TDB     |
|  | REVISED FOR CONSTRUCTION<br>AREA A<br>PRIMARY & SECONDARY | 8.10.15 |
|                                                                                       |                                                           | TDB     |
|  | REVISED FOR CONSTRUCTION                                  | 8.24.15 |
|                                                                                       |                                                           | TDB     |
|  | FOR CONSTRUCTION                                          | 9.7.15  |
|                                                                                       |                                                           | TDB     |
|  |                                                           |         |
|  |                                                           |         |

|               |
|---------------|
| DRAWING DATE  |
| 1/30/15       |
| DRAWN BY      |
| TDB           |
| CHECKED BY    |
| SS            |
| DRAWING SCALE |
| N.T.S.        |
| JOB NO.       |
| 15-011-07     |
| SHEET         |
| E13           |

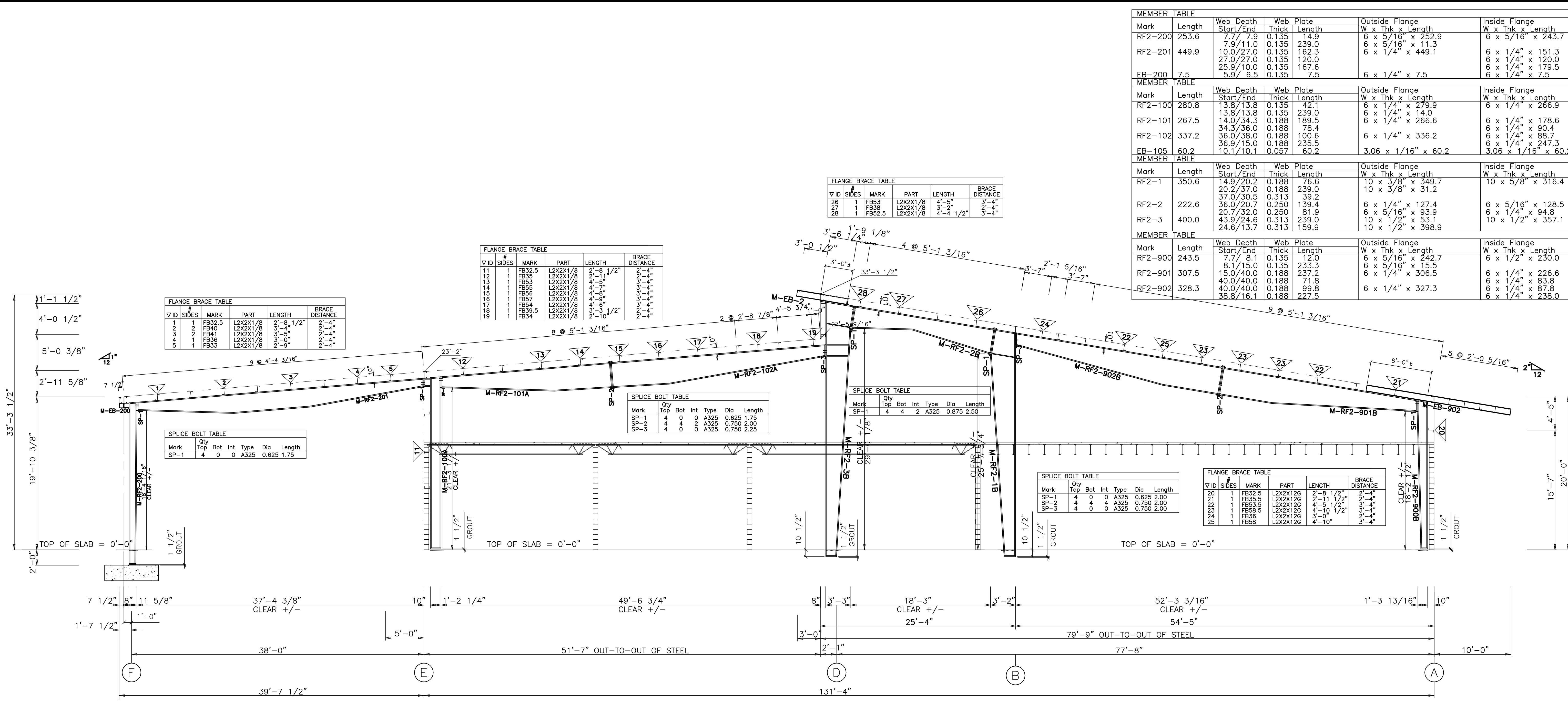
DESIGN PROVIDED BY :  
PETER WALLIS  
FLORIDA P.E.# 34418  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
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Maint-Ops Building

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CUSTOMER: Willis Smith Construction

  
2812 Tallevast Road • Sarasota, Florida 34243  
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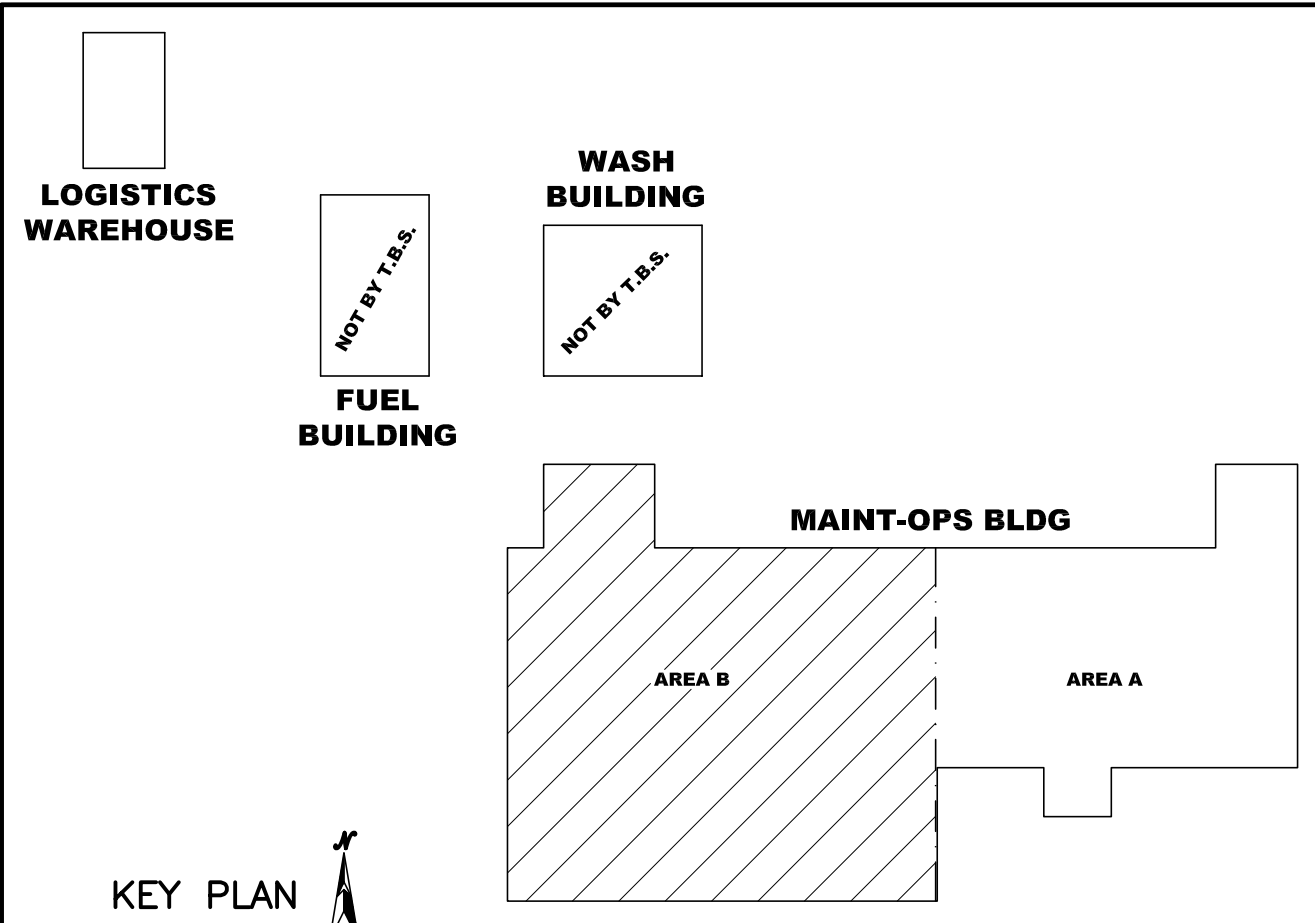
RIGID FRAME ELEVATION: FRAME LINE 3

FOR CONSTRUCTION  
SEPTEMBER 7, 2015

**Peter Wallis and Associates**  
Structural Engineers

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FLORIDA CERTIFICATE OF AUTHORIZATION #26156

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**PETER WALLIS**  
FLORIDA P.E. # 34418

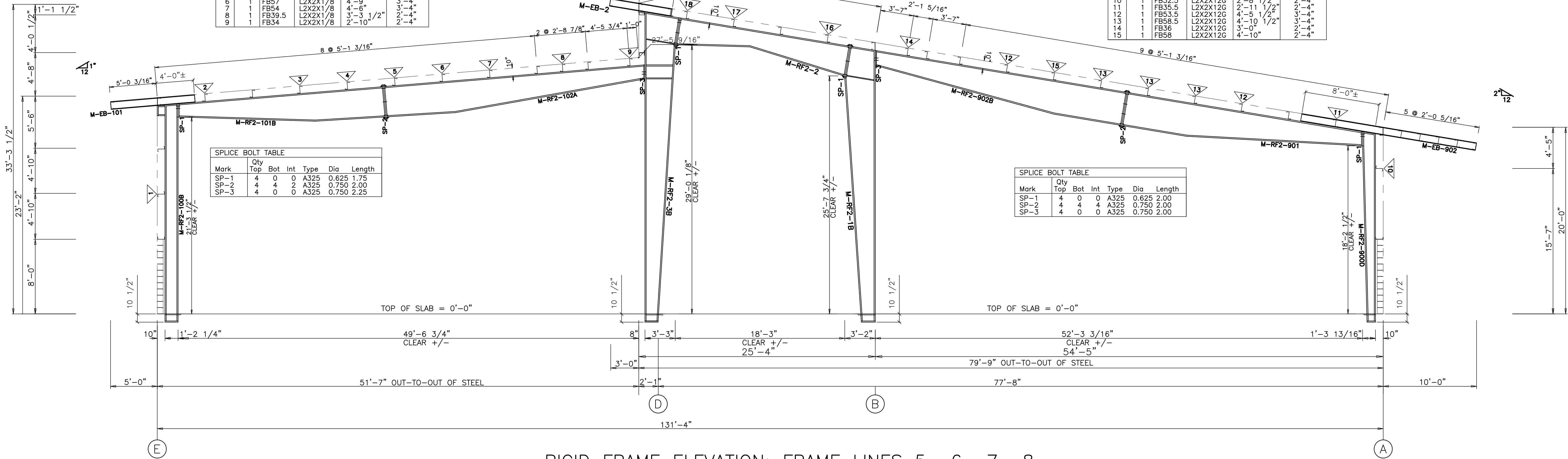
FABRICATION AND ERECTION  
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Manatee County Transit Fleet Facility  
Bradenton, Florida  
Rigid Frame Elevation  
Maint-Ops Building

CUSTOMER: Willis Smith Construction

| REVISIONS |                                 |
|-----------|---------------------------------|
| △         | FOR APPROVAL                    |
| △         | REVISED FOR APPROVAL            |
| △         | REVISED FOR CONSTRUCTION        |
| △         | FOR CONSTRUCTION                |
| △         | AREA B PRIMARY & SECONDARY ONLY |
| △         | REVISED FOR CONSTRUCTION        |
| △         | AREA A PRIMARY & SECONDARY      |
| △         | REVISED FOR CONSTRUCTION        |
| △         | FOR CONSTRUCTION                |

|               |  |
|---------------|--|
| DRAWING DATE  |  |
| 1/30/15       |  |
| DRAWN BY      |  |
| TDB           |  |
| CHECKED BY    |  |
| SS            |  |
| DRAWING SCALE |  |
| N.T.S.        |  |
| JOB NO.       |  |
| 15-011-07     |  |
| SHEET         |  |
| E14           |  |



RIGID FRAME ELEVATION: FRAME LINES 5 6 7 8

| MEMBER TABLE |        | Web Depth | Web Plate    | Outside Flange      | Inside Flange       |
|--------------|--------|-----------|--------------|---------------------|---------------------|
| Mark         | Length | Start/End | Thick Length | W x Thk x Length    | W x Thk x Length    |
| RF2-100      | 280.8  | 13.8/13.8 | 0.135 42.1   | 6 x 1/4" x 279.9    | 6 x 1/4" x 266.9    |
| RF2-101      | 267.5  | 13.8/13.8 | 0.135 239.0  | 6 x 1/4" x 14.0     | 6 x 1/4" x 178.6    |
| RF2-102      | 337.2  | 14.0/34.3 | 0.188 189.5  | 6 x 1/4" x 266.6    | 6 x 1/4" x 90.4     |
| EB-105       | 60.2   | 34.3/36.0 | 0.188 78.4   | 6 x 1/4" x 336.2    | 6 x 1/4" x 88.7     |
| MEMBER TABLE |        | 36.0/38.0 | 0.188 100.6  | 6 x 1/4" x 247.3    | 6 x 1/4" x 247.3    |
| Mark         | Length | Start/End | Thick Length | W x Thk x Length    | W x Thk x Length    |
| RF2-1        | 350.6  | 10.1/10.1 | 0.057 60.2   | 3.06 x 1/16" x 60.2 | 3.06 x 1/16" x 60.2 |
| RF2-2        | 222.6  | 14.9/20.2 | 0.188 76.6   | 10 x 3/8" x 349.7   | 10 x 5/8" x 316.4   |
| RF2-3        | 400.0  | 20.2/37.0 | 0.188 239.0  | 10 x 3/8" x 31.2    | 6 x 5/16" x 127.4   |
| MEMBER TABLE |        | 37.0/30.5 | 0.313 139.4  | 6 x 1/4" x 127.4    | 6 x 1/4" x 93.9     |
| Mark         | Length | Start/End | Thick Length | W x Thk x Length    | W x Thk x Length    |
| RF2-900      | 243.5  | 20.7/32.0 | 0.250 81.9   | 10 x 1/2" x 53.1    | 10 x 1/2" x 357.1   |
| RF2-901      | 307.5  | 43.9/24.6 | 0.313 239.0  | 10 x 1/2" x 398.9   | 6 x 1/4" x 226.6    |
| RF2-902      | 328.3  | 24.6/13.7 | 0.313 159.9  | 6 x 1/4" x 327.3    | 6 x 1/4" x 238.0    |

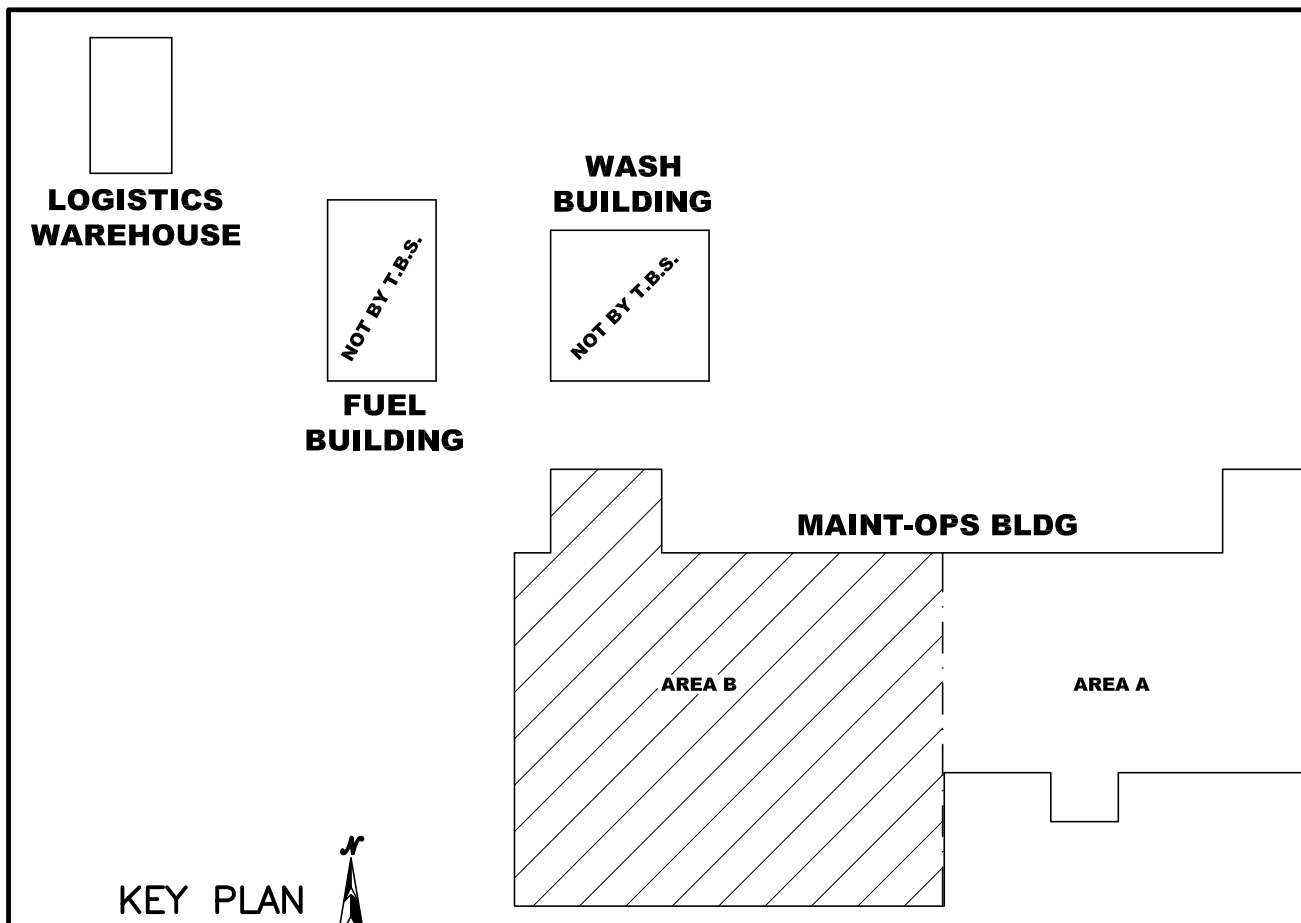
| FLANGE BRACE TABLE |         | Web Depth | Web Plate | Outside Flange | Inside Flange  |
|--------------------|---------|-----------|-----------|----------------|----------------|
| ▽ ID               | # SIDES | MARK      | PART      | LENGTH         | BRACE DISTANCE |
| 10                 | 1       | FB32.5    | L2X2X1/8  | 2'-8 1/2"      | 2'-4"          |
| 11                 | 1       | FB35.5    | L2X2X1/8  | 2'-11 1/2"     | 2'-4"          |
| 12                 | 1       | FB53.5    | L2X2X1/8  | 4'-5 1/2"      | 3'-4"          |
| 13                 | 1       | FB58.5    | L2X2X1/8  | 4'-10 1/2"     | 3'-4"          |
| 14                 | 1       | FB36      | L2X2X1/8  | 3'-0"          | 2'-4"          |
| 15                 | 1       | FB58      | L2X2X1/8  | 4'-10"         | 2'-4"          |

| SPlice BOLT TABLE |            |     |     |      |       |        |
|-------------------|------------|-----|-----|------|-------|--------|
| Mark              | Qty<br>Top | Bot | Int | Type | Dia   | Length |
| SP-1              | 4          | 0   | 0   | A325 | 0.625 | 2.00   |
| SP-2              | 4          | 4   | 4   | A325 | 0.750 | 2.00   |
| SP-3              | 4          | 0   | 0   | A325 | 0.750 | 2.00   |

| FLANGE BRACE TABLE |         | Web Depth | Web Plate | Outside Flange | Inside Flange  |
|--------------------|---------|-----------|-----------|----------------|----------------|
| ▽ ID               | # SIDES | MARK      | PART      | LENGTH         | BRACE DISTANCE |
| 1                  | 1       | FB32.5    | L2X2X1/8  | 2'-8 1/2"      | 2'-4"          |
| 2                  | 1       | FB35.5    | L2X2X1/8  | 2'-11 1/2"     | 2'-4"          |
| 3                  | 1       | FB53.5    | L2X2X1/8  | 4'-5 1/2"      | 3'-4"          |
| 4                  | 1       | FB58.5    | L2X2X1/8  | 4'-10 1/2"     | 3'-4"          |
| 5                  | 1       | FB36      | L2X2X1/8  | 3'-0"          | 2'-4"          |
| 6                  | 1       | FB58      | L2X2X1/8  | 4'-10"         | 2'-4"          |
| 7                  | 1       | FB34.5    | L2X2X1/8  | 4'-6"          | 2'-4"          |
| 8                  | 1       | FB34      | L2X2X1/8  | 2'-10 1/2"     | 2'-4"          |

| SPlice BOLT TABLE |     |     |     |     |      |       |        |
|-------------------|-----|-----|-----|-----|------|-------|--------|
| Mark              | Qty | Top | Bot | Int | Type | Dia   | Length |
| SP-1              | 4   | 0   | 0   | 0   | A325 | 0.625 | 1.75   |
| SP-2              | 4   | 4   | 4   | 2   | A325 | 0.750 | 2.00   |
| SP-3              | 4   | 0   | 0   | 0   | A325 | 0.750 | 2.25   |

FOR CONSTRUCTION  
SEPTEMBER 7, 2015



**Peter Wallis and Associates**  
**Structural Engineers**

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Bradenton, Florida  
Rigid Frame Elevation  
Maint-Ops Building

CUSTOMER: Willis Smith Construction

| REVISIONS |                                             |
|-----------|---------------------------------------------|
| △ A       | FOR APPROVAL 3.10.15 TDB                    |
| △ B       | REVISED FOR APPROVAL 3.26.15 TDB            |
| △ C       | REVISED FOR CONSTRUCTION 6.22.15 JCC        |
| △ D       | FOR CONSTRUCTION 7.10.15 TDB                |
| △ E       | AREA B PRIMARY & SECONDARY ONLY 8.10.15 TDB |
| △ F       | REVISED FOR CONSTRUCTION 8.24.15 TDB        |
| △ G       | FOR CONSTRUCTION 9.7.15 TDB                 |

DRAWING DATE  
**1/30/15**

DRAWN BY  
**TDB**

CHECKED BY  
**SS**

DRAWING SCALE  
**N.T.S.**

JOB NO.  
**15-011-07**

SHEET  
**E15**

| Mark | Qty<br>Top | Bot | Int | Type | Dia   | Length |
|------|------------|-----|-----|------|-------|--------|
| SP-1 | 4          | 4   | 2   | A325 | 0.875 | 2.50   |
| SP-2 | 4          | 4   | 2   | A325 | 0.875 | 2.75   |
| SP-3 | 4          | 0   | 0   | A325 | 0.625 | 1.75   |
| SP-4 | 4          | 4   | 2   | A325 | 0.750 | 2.00   |
| SP-5 | 4          | 0   | 0   | A325 | 0.750 | 2.25   |

| FLANGE BRACE TABLE |         |      |          |        |                |
|--------------------|---------|------|----------|--------|----------------|
| ▽ ID               | # SIDES | MARK | PART     | LENGTH | BRACE DISTANCE |
| 15                 | 1       | FB30 | L2X2X1/8 | 2'-6"  | 2'-4"          |

| CAP PLATE BOLTS |     |      |       |        |
|-----------------|-----|------|-------|--------|
| Mark            | Qty | Type | Dia   | Length |
| RF2-701         | 4   | A325 | 0.625 | 1.50   |

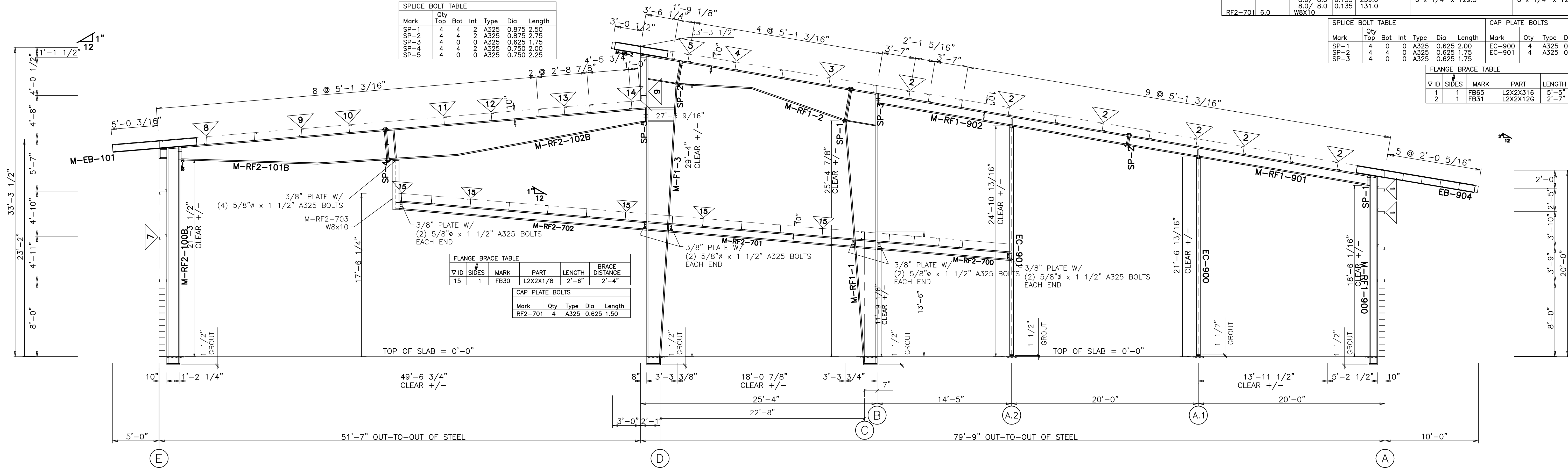
| MEBER TABLE |        | Web Depth   |       | Thick Plate |        | Outside Flange      |        | Inside Flange       |        |
|-------------|--------|-------------|-------|-------------|--------|---------------------|--------|---------------------|--------|
| Mark        | Length | Start       | End   | Web         | Length | W. x Thick          | Length | W. x Thick          | Length |
| RF1-1       | 350.4  | 14.0 / 20.0 | 0.250 | 13.9        | 3.9    | 12 x 3/8            | 34.7   | 12 x 3/8            | 31.9   |
|             |        | 20.0 / 39.0 | 0.250 | 23.9        | 0      | 12 x 3/8            | 32.9   |                     |        |
|             |        | 39.0 / 32.0 | 0.312 | 31.7        | 2.2    |                     |        |                     |        |
| RF1-2       | 221.5  | 39.0 / 18.8 | 0.250 | 137.9       | 0      | 6 x 1/4" x 125.9    |        | 6 x 5/16" x 127.7   |        |
|             |        | 18.8 / 28.0 | 0.250 | 82.2        | 0      | 6 x 3/8" x 94.2     |        | 6 x 1/4" x 94.7     |        |
| RF1-3       | 400.0  | 12.0 / 38.0 | 0.250 | 36.0        | 3.0    | 10 x 5/8" x 52.6    |        | 10 x 3/4" x 36.0    |        |
|             |        | 38.0 / 22.3 | 0.250 | 23.7        | 0      | 10 x 5/8" x 398.8   |        |                     |        |
|             |        | 22.3 / 14.4 | 0.250 | 12.3        | 0      |                     |        |                     |        |
| RF2-100     | 258.8  | 13.8 / 13.8 | 0.188 | 122.3       | 0      | 6 x 1/4" x 279.9    |        | 6 x 1/4" x 266.9    |        |
|             |        | 13.8 / 13.8 | 0.188 | 135.0       | 0      | 6 x 1/4" x 14.0     |        |                     |        |
| RF2-101     | 267.5  | 14.0 / 34.3 | 0.188 | 23.5        | 0      | 6 x 1/4" x 266.6    |        |                     |        |
|             |        | 34.3 / 36.0 | 0.188 | 78.4        | 0      |                     |        | 6 x 1/4" x 178.6    |        |
| RF2-102     | 337.2  | 36.0 / 39.0 | 0.188 | 100.6       | 0      | 6 x 1/4" x 336.2    |        | 6 x 1/4" x 88.7     |        |
|             |        | 39.0 / 1.5  | 0.188 | 1.5         | 0      |                     |        | 6 x 1/4" x 147.3    |        |
| EB-105      | 60.2   | 10.0 / 10.1 | 0.057 | 60.2        | 0      | 3.06 x 1/16" x 60.2 |        | 3.06 x 1/16" x 60.2 |        |

| MARK    |        | TABLE     |        | Web        |  | Plate    |          | Outside Flange |          | Inside Flange |  |
|---------|--------|-----------|--------|------------|--|----------|----------|----------------|----------|---------------|--|
|         | Length | Start/End | Thick. | Web Length |  | W x Thk. | x Length | W x Thk.       | x Length |               |  |
| RF1-900 | 243.5  | 7.5 / 7.5 | 0.135  | 12.0       |  | 6 x 5/8" | x 242.5  | 6 x 1/2"       | x 233.6  |               |  |
| RF1-901 | 314.8  | 7.5 / 7.5 | 0.135  | 6.1        |  | 6 x 5/8" | x 314.0  | 6 x 1/4"       | x 315.7  |               |  |
| RF1-902 | 328.3  | 10.0/10.0 | 0.135  | 76.7       |  | 6 x 1/4" | x 327.5  | 6 x 1/4"       | x 325.8  |               |  |
|         |        | 10.0/10.0 | 0.135  | 239.0      |  |          |          |                |          |               |  |
|         |        | 10.0/10.0 | 0.135  | 88.5       |  |          |          |                |          |               |  |
| EC-900  | 271.2  | WI2X16    |        |            |  |          |          |                |          |               |  |
| EC-901  | 311.2  | WI0X19    |        |            |  |          |          |                |          |               |  |

| MEMBER  |        | TABLE     |     | Web   |        | Plate |                | Outside Flange |        | Inside Flange |                |         |        |
|---------|--------|-----------|-----|-------|--------|-------|----------------|----------------|--------|---------------|----------------|---------|--------|
| Mark    | Length | Start     | End | Thick | Length | W     | T <sub>h</sub> | X              | Length | W             | T <sub>h</sub> | X       | Length |
| RF2-700 | 609.1  | 8.0 / 8.0 | 8.0 | 0.135 | 239.0  | 6     | x 1/4"         | x 479.0        |        | 6             | x 1/4"         | x 479.0 |        |
|         |        | 8.0 / 8.0 | 8.0 | 0.135 | 239.0  | 6     | x 1/4"         | x 129.3        |        | 6             | x 1/4"         | x 129.3 |        |
|         |        | 8.0 / 8.0 | 8.0 | 0.135 | 131.0  |       |                |                |        |               |                |         |        |
| RF2-701 | 6.0    | W8X10     |     |       |        |       |                |                |        |               |                |         |        |

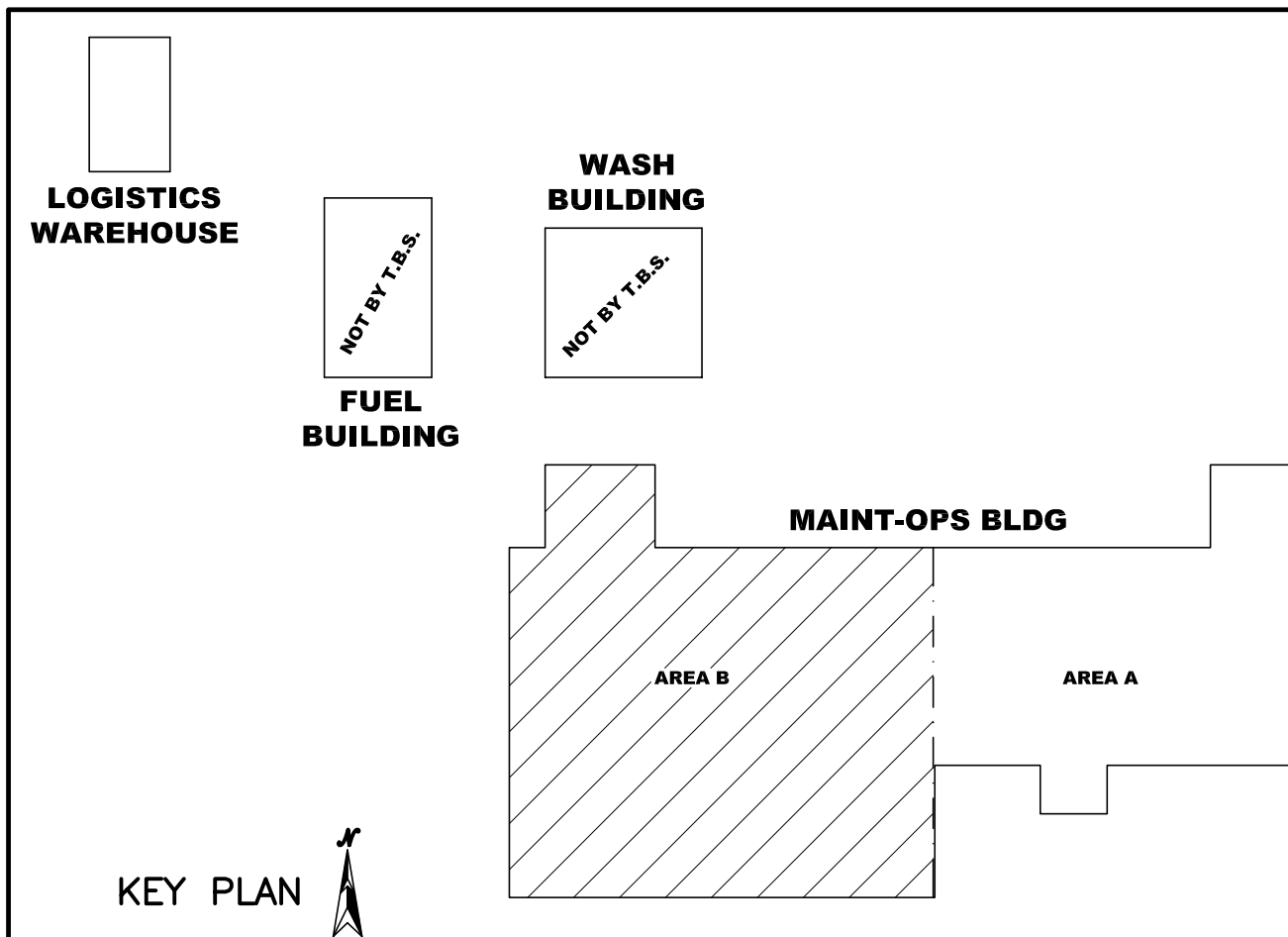
| SPlice Bolt Table |     |      |     |      |       |        | CAP Plate Bolts |     |      |       |        |
|-------------------|-----|------|-----|------|-------|--------|-----------------|-----|------|-------|--------|
| Mark              | Qty | Bolt | Int | Type | Dia   | Length | Mark            | Qty | Type | Dia   | Length |
| SP-1              | 4   | 0    | 0   | A325 | 0.625 | 2.00   | EC-900          | 4   | A325 | 0.625 | 1.50   |
| SP-2              | 4   | 4    | 0   | A325 | 0.625 | 1.75   | EC-901          | 4   | A325 | 0.625 | 1.50   |
| SP-3              | 4   | 0    | 0   | A325 | 0.625 | 1.75   |                 |     |      |       |        |

| FLANGE BRACE TABLE |         |      |          |        |                |
|--------------------|---------|------|----------|--------|----------------|
| ▽ ID               | # SIDES | MARK | PART     | LENGTH | BRACE DISTANCE |
| 1                  | 1       | FB65 | L2X2X316 | 5'-5"  | 5'-4"          |
| 2                  | 1       | FB31 | L2X2X12G | 2'-7"  | 2'-4"          |



RIGID FRAME ELEVATION: FRAME LINE 9

**FOR CONSTRUCTION  
SEPTEMBER 7, 2015**



**Peter Wallis and Associates**  
**Structural Engineers**

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FLORIDA CERTIFICATE OF AUTHORIZATION #26156

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sarasota, fl 34240

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peter.wallis.eng@gmail.com

| REVISIONS                                                                             |                                                                                    |                |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------|
|  | FOR APPROVAL                                                                       | 3.10.15<br>TDB |
|  | REVISED FOR APPROVAL                                                               | 3.26.15<br>TDB |
|  | REVISED FOR CONSTRUCTION                                                           | 6.22.15<br>JCC |
|  | FOR CONSTRUCTION<br>AREA B<br>PRIMARY & SECONDARY ONLY                             | 7.10.15<br>TDB |
|  | REVISED FOR CONSTRUCTION<br>AREA A (LINES 9 thru 11.9)<br>PRIMARY & SECONDARY ONLY | 7.23.15<br>TDB |
|  | REVISED FOR CONSTRUCTION<br>AREA A<br>PRIMARY & SECONDARY                          | 8.10.15<br>TDB |
|  | REVISED FOR CONSTRUCTION                                                           | 8.24.15<br>TDB |
|  | FOR CONSTRUCTION                                                                   | 9.7.15<br>TDB  |
|  |                                                                                    |                |

|               |  |
|---------------|--|
| DRAWING DATE  |  |
| 1/30/15       |  |
| DRAWN BY      |  |
| TDB           |  |
| CHECKED BY    |  |
| SS            |  |
| DRAWING SCALE |  |
| N.T.S.        |  |
| JOB NO.       |  |
| 15-011-07     |  |
| SHEET         |  |
| E16           |  |

DESIGN PROVIDED BY :  
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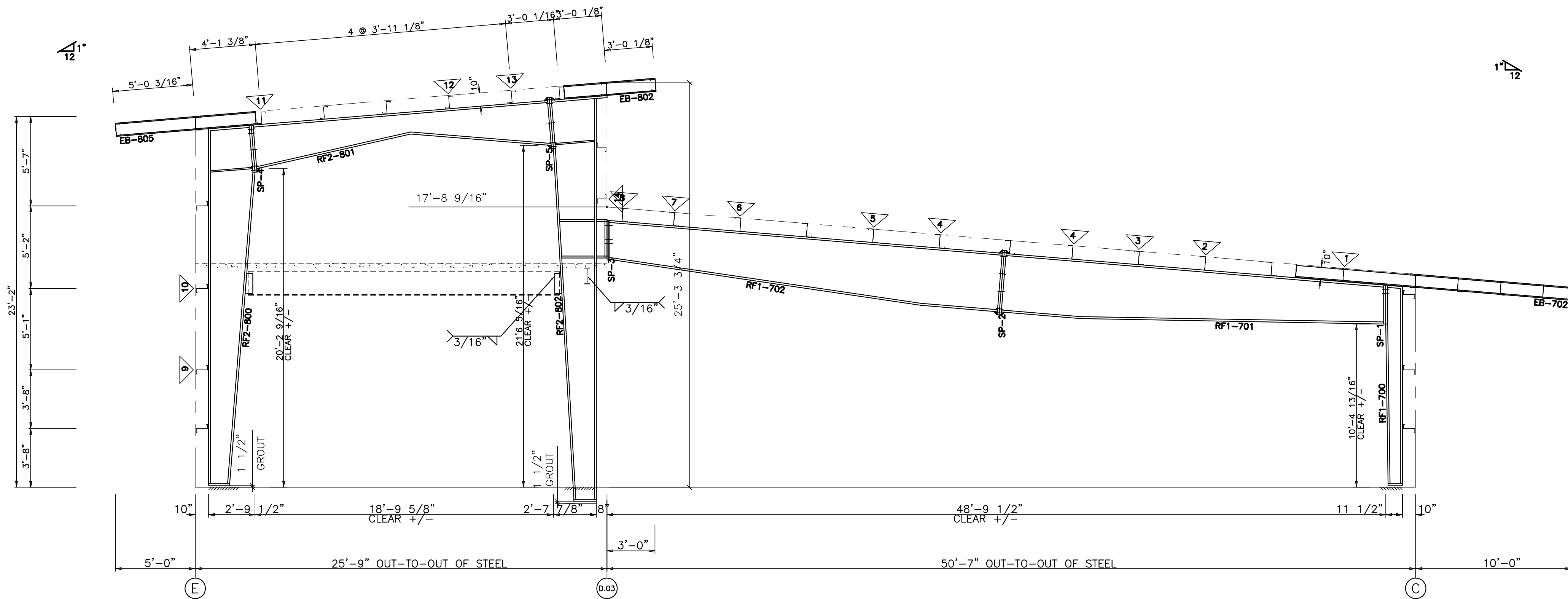
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PETER WALLIS  
FLORIDA P.E.# 34418

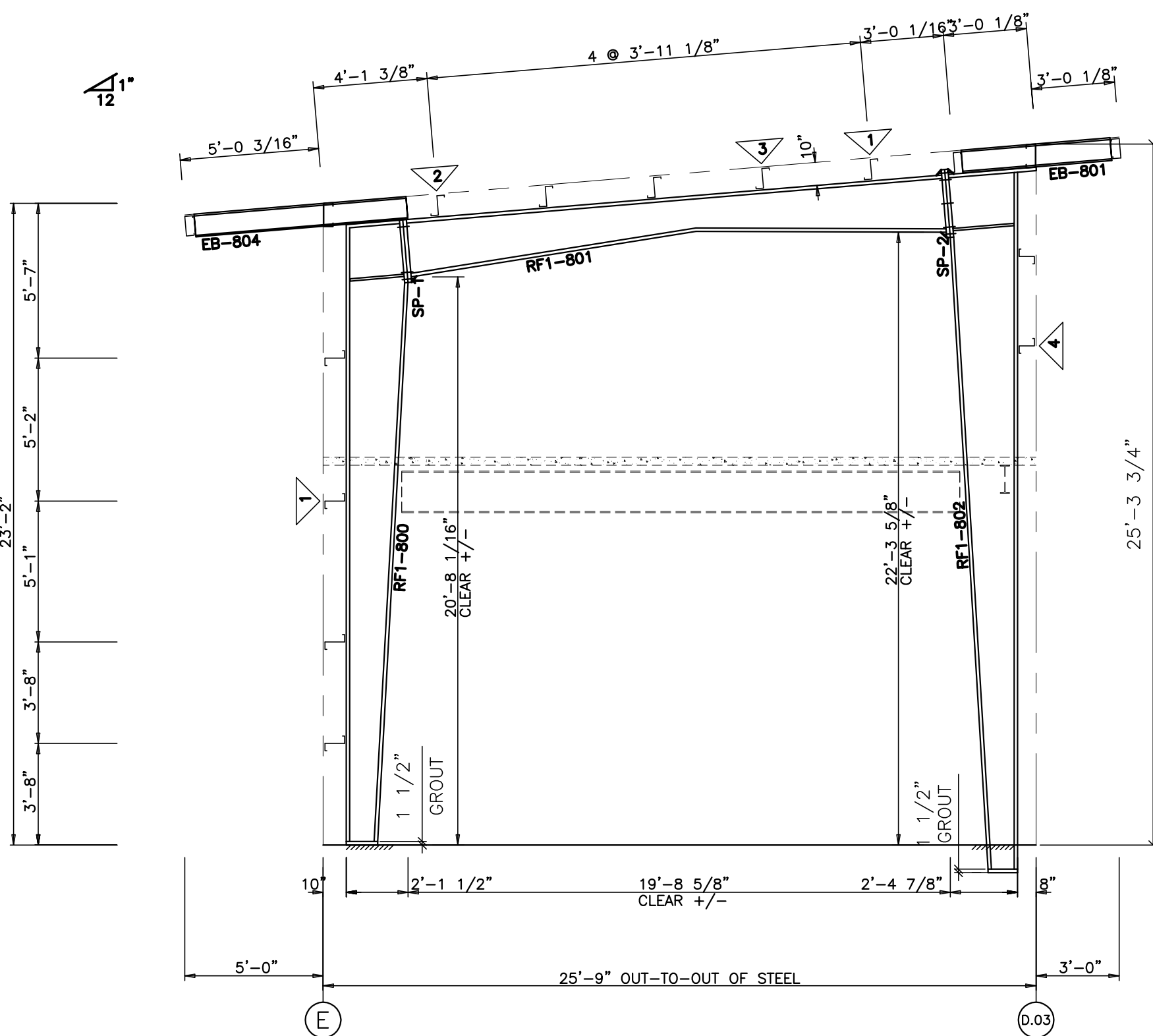
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RIGID FRAME ELEVATION: FRAME LINE 11

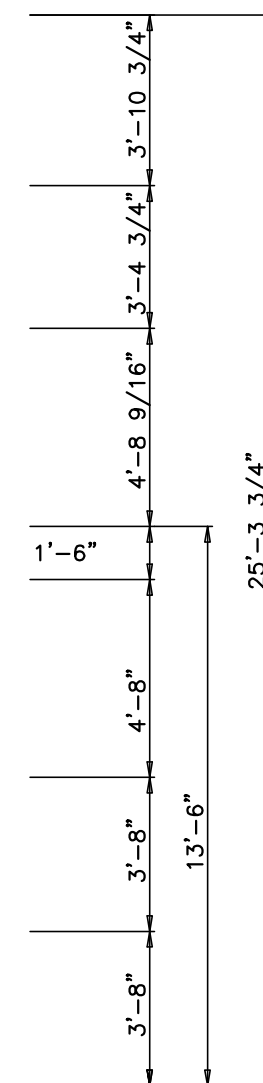


RIGID FRAME ELEVATION: FRAME LINES 10 11.9

| SPLICE BOLT TABLE |     |     |     |     |      |            |
|-------------------|-----|-----|-----|-----|------|------------|
| Mark              | Qty | Top | Bot | Int | Type | Dia Length |
| SP-1              | 4   | 2   | 0   |     | A325 | 0.625 1.75 |
| SP-2              | 4   | 4   | 4   |     | A325 | 0.750 2.00 |
| SP-3              | 4   | 2   | 0   |     | A325 | 0.750 2.25 |
| SP-4              | 4   | 4   | 2   |     | A325 | 0.750 2.50 |
| SP-5              | 4   | 4   | 2   |     | A325 | 0.825 2.00 |

| FLANGE BRACE TABLE |   |       |        |          |            |                |
|--------------------|---|-------|--------|----------|------------|----------------|
| ▽ ID               | # | SIDES | MARK   | PART     | LENGTH     | BRACE DISTANCE |
| 1                  | 2 |       | FB42   | L2X2X1/8 | 3'-6"      | 2'-4"          |
| 2                  | 2 |       | FB55   | L2X2X1/8 | 4'-5"      | 2'-4"          |
| 3                  | 2 |       | FB57.5 | L2X2X1/8 | 4'-9 1/2"  | 2'-4"          |
| 4                  | 2 |       | FB58.5 | L2X2X1/8 | 4'-11 1/2" | 2'-4"          |
| 5                  | 2 |       | FB57.5 | L2X2X1/8 | 4'-9 1/2"  | 2'-4"          |
| 6                  | 2 |       | FB42.5 | L2X2X1/8 | 3'-6 1/2"  | 2'-4"          |
| 7                  | 2 |       | FB36   | L2X2X1/8 | 3'-4"      | 2'-4"          |
| 8                  | 2 |       | FB40.5 | L2X2X1/8 | 3'-4"      | 2'-4"          |
| 9                  | 1 |       | FB39.5 | L2X2X1/8 | 3'-0 1/2"  | 2'-4"          |
| 10                 | 2 |       | FB42.5 | L2X2X1/8 | 3'-6 1/2"  | 2'-4"          |
| 11                 | 2 |       | FB45   | L2X2X1/8 | 3'-1"      | 2'-4"          |
| 12                 | 2 |       | FB40.5 | L2X2X1/8 | 3'-4 1/2"  | 2'-4"          |
| 13                 | 2 |       | FB41.5 | L2X2X1/8 | 3'-5 1/2"  | 2'-4"          |

| MEMBER TABLE |        |                     |                        |                                 |                                |  |
|--------------|--------|---------------------|------------------------|---------------------------------|--------------------------------|--|
| Mark         | Length | Web Depth Start/End | Web Plate Thick Length | Outside Flange W x Thk x Length | Inside Flange W x Thk x Length |  |
| RF1-700      | 150.4  | 7.7/11.0            | 0.135 150.6            | 6 x 1/4" x 149.7                | 6 x 1/4" x 124.3               |  |
| RF1-701      | 288.2  | 26.0/41.0           | 0.188 229.2            | 6 x 1/4" x 11.3                 | 6 x 1/4" x 229.7               |  |
|              |        | 41.0/41.0           | 0.188 12.0             | 6 x 5/16" x 60.4                | 6 x 1/4" x 60.4                |  |
| RF1-702      | 299.2  | 41.0/41.0           | 0.188 48.4             | 6 x 5/16" x 58.6                | 6 x 1/4" x 58.6                |  |
|              |        | 41.0/41.0           | 0.188 70.6             | 6 x 1/4" x 239.5                | 6 x 1/4" x 237.8               |  |
| RF2-800      | 270.4  | 40.2/26.0           | 0.188 227.5            | 6 x 1/4" x 269.8                | 6 x 1/4" x 239.6               |  |
| RF2-801      | 225.6  | 33.0/30.2           | 0.250 33.6             | 6 x 1/4" x 30.5                 | 6 x 1/4" x 120.0               |  |
|              |        | 30.0/15.5           | 0.188 130.9            | 6 x 1/4" x 224.3                | 6 x 1/4" x 106.9               |  |
| RF2-802      | 295.0  | 15.5/31.0           | 0.188 93.5             | 8 x 5/8" x 42.7                 | 8 x 1/4" x 257.0               |  |
|              |        | 33.9/31.0           | 0.250 37.4             | 8 x 5/8" x 293.9                |                                |  |
|              |        | 31.0/14.9           | 0.188 239.0            |                                 |                                |  |
|              |        | 14.9/13.7           | 0.188 17.5             |                                 |                                |  |



| MEMBER TABLE |        |                     |                        |                                 |                                |  |
|--------------|--------|---------------------|------------------------|---------------------------------|--------------------------------|--|
| Mark         | Length | Web Depth Start/End | Web Plate Thick Length | Outside Flange W x Thk x Length | Inside Flange W x Thk x Length |  |
| RF1-800      | 270.4  | 10.5/11.2           | 0.135 12.0             | 6 x 1/4" x 269.8                | 6 x 1/4" x 246.6               |  |
|              |        | 11.2/25.0           | 0.135 234.1            | 6 x 1/4" x 23.2                 |                                |  |
| RF1-801      | 236.9  | 25.0/22.9           | 0.188 25.6             | 6 x 1/4" x 235.9                | 6 x 1/4" x 126.8               |  |
|              |        | 22.0/13.5           | 0.135 138.5            | 6 x 1/4" x 109.9                | 6 x 1/4" x 109.9               |  |
| RF1-802      | 295.0  | 13.5/22.0           | 0.135 97.5             | 6 x 5/8" x 38.9                 | 6 x 1/4" x 266.5               |  |
|              |        | 30.1/28.0           | 0.188 26.1             | 6 x 5/8" x 234.0                |                                |  |
|              |        | 28.0/11.6           | 0.135 239.0            |                                 |                                |  |
|              |        | 11.6/ 9.7           | 0.135 26.9             |                                 |                                |  |

| FLANGE BRACE TABLE |   |       |        |          |            |                |
|--------------------|---|-------|--------|----------|------------|----------------|
| ▽ ID               | # | SIDES | MARK   | PART     | LENGTH     | BRACE DISTANCE |
| 1                  | 1 |       | FB35.5 | L2X2X1/8 | 2'-11 1/2" | 2'-4"          |
| 2                  | 1 |       | FB36.5 | L2X2X1/8 | 3'-0 1/2"  | 2'-4"          |
| 3                  | 1 |       | FB33   | L2X2X1/8 | 3'-3"      | 2'-4"          |
| 4                  | 1 |       | FB39   | L2X2X1/8 | 3'-3"      | 2'-4"          |

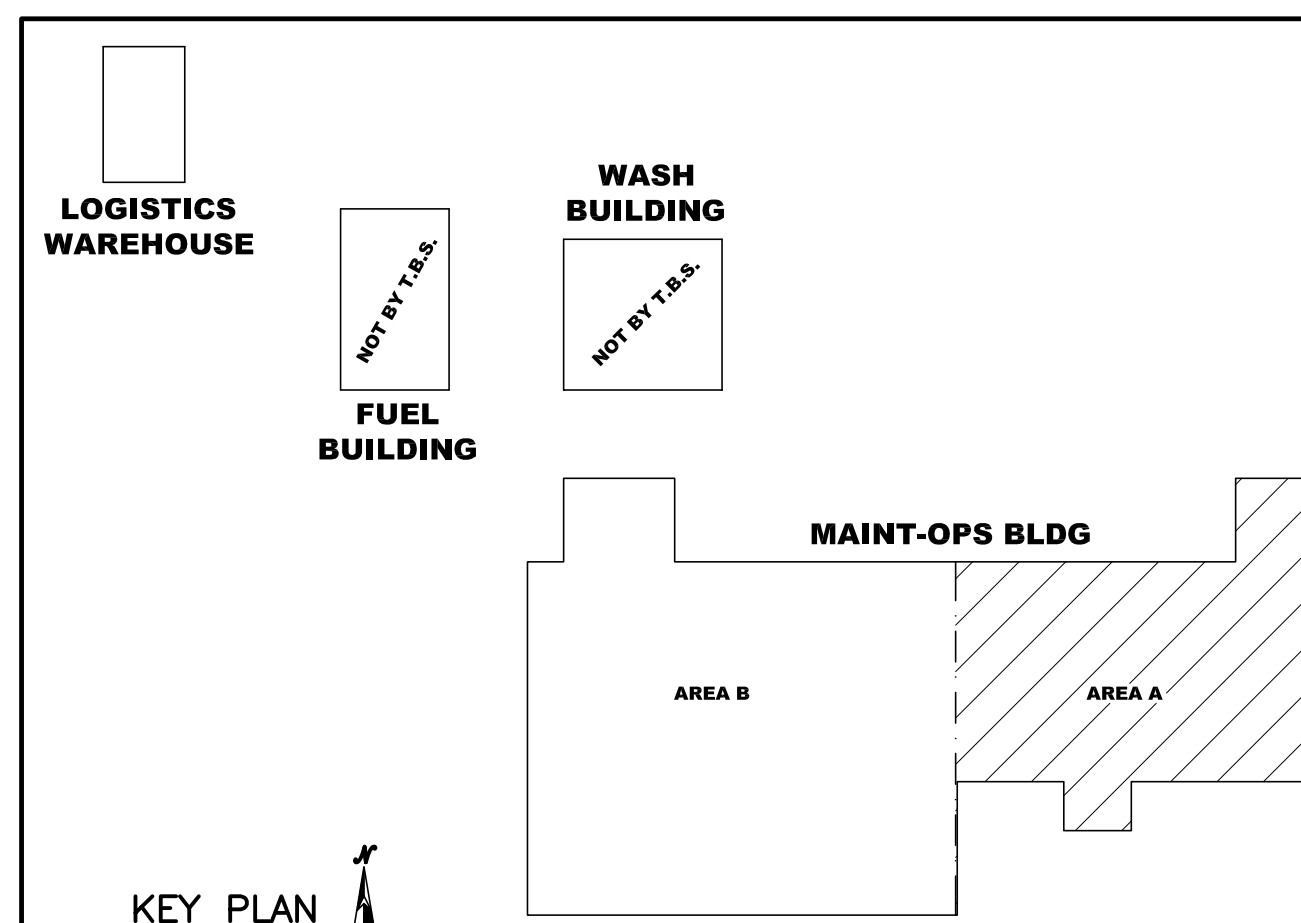
| SPLICE BOLT TABLE |     |     |     |     |      |            |
|-------------------|-----|-----|-----|-----|------|------------|
| Mark              | Qty | Top | Bot | Int | Type | Dia Length |
| SP-1              | 2   | 4   | 0   |     | A325 | 0.750 2.25 |
| SP-2              | 4   | 4   | 2   |     | A325 | 0.625 1.75 |

FOR CONSTRUCTION  
SEPTEMBER 7, 2015

**Peter Wallis and Associates**  
**Structural Engineers**

FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #26156

7313 merchant court, sarasota, fl 34240  
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peter.wallis.eng@gmail.com



**TRIDENT**  
BUILDINGSYSTEMS INC.

2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067

DESIGN PROVIDED BY :  
**PETER WALLIS**  
FLORIDA P.E.# 34418  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Rigid Frame Elevation  
Maint-Ops Building  
CUSTOMER: Willis Smith Construction

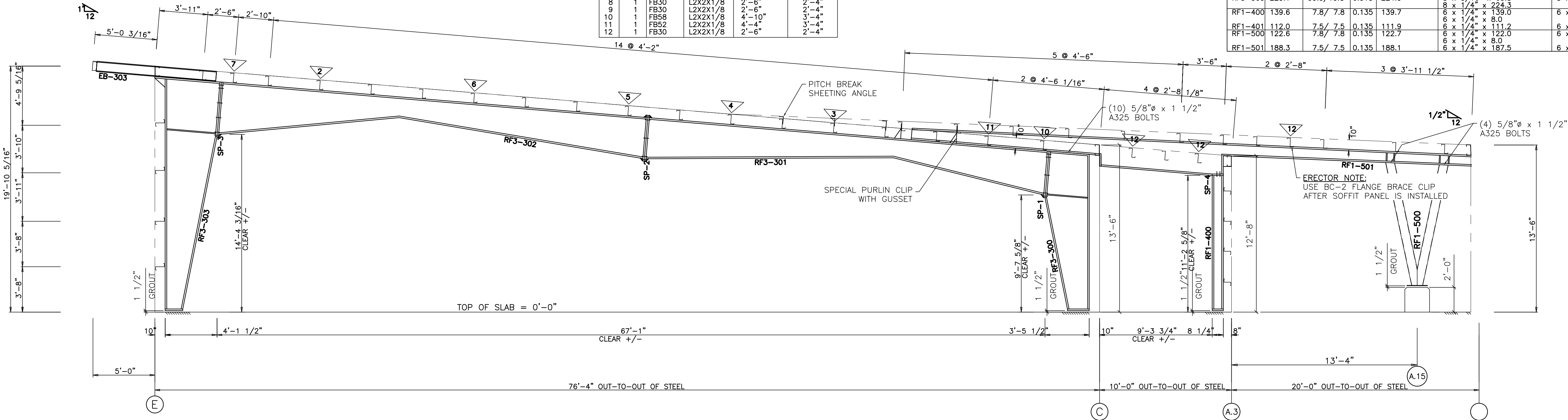
| REVISIONS |                                    |                |
|-----------|------------------------------------|----------------|
| △         | FOR APPROVAL                       | 3.10.15<br>TDB |
| △         | REVISED FOR APPROVAL               | 3.26.15<br>TDB |
| △         | FOR CONSTRUCTION                   | 7.10.15<br>TDB |
| △         | AREA B<br>PRIMARY & SECONDARY ONLY | 7.29.15<br>TDB |
| △         | REVISED FOR CONSTRUCTION           | 8.10.15<br>TDB |
| △         | AREA A<br>PRIMARY & SECONDARY      | 8.24.15<br>TDB |
| △         | REVISED FOR CONSTRUCTION           | 9.7.15<br>TDB  |
| △         | FOR CONSTRUCTION                   |                |

|               |           |
|---------------|-----------|
| DRAWING DATE  | 1/30/15   |
| DRAWN BY      | TDB       |
| CHECKED BY    | SS        |
| DRAWING SCALE | N.T.S.    |
| JOB NO.       | 15-011-07 |
| SHEET         | E17       |

| Mark | Qty | Top | Bot | Int  | Type  | Dia  | Length |
|------|-----|-----|-----|------|-------|------|--------|
| SP-1 | 4   | 4   | 2   | A325 | 0.875 | 2.50 |        |
| SP-2 | 4   | 4   | 2   | A325 | 0.750 | 2.00 |        |
| SP-3 | 4   | 4   | 4   | A325 | 0.875 | 2.50 |        |
| SP-4 | 4   | 0   | 0   | A325 | 0.625 | 1.75 |        |

| ▽ ID | # | SIDES | MARK   | PART     | LENGTH     | BRACE DISTANCE |
|------|---|-------|--------|----------|------------|----------------|
| 1    | 1 |       | FB58   | L2X2X1/8 | 4'-10"     | 3'-4"          |
| 2    | 1 |       | FB52.5 | L2X2X1/8 | 4'-4 1/2"  | 3'-4"          |
| 3    | 1 |       | FB37   | L2X2X1/8 | 3'-1"      | 2'-4"          |
| 4    | 1 |       | FB43   | L2X2X1/8 | 3'-7"      | 2'-4"          |
| 5    | 1 |       | FB55.5 | L2X2X1/8 | 4'-7 1/2"  | 2'-4"          |
| 6    | 1 |       | FB38   | L2X2X1/8 | 3'-2"      | 2'-4"          |
| 7    | 1 |       | FB71.5 | L2X2X1/8 | 5'-11 1/2" | 4'-4"          |
| 8    | 1 |       | FB30   | L2X2X1/8 | 2'-6"      | 2'-4"          |
| 9    | 1 |       | FB30   | L2X2X1/8 | 2'-6"      | 2'-4"          |
| 10   | 1 |       | FB58   | L2X2X1/8 | 4'-10"     | 3'-4"          |
| 11   | 1 |       | FB52   | L2X2X1/8 | 4'-4"      | 3'-4"          |
| 12   | 1 |       | FB30   | L2X2X1/8 | 2'-6"      | 2'-4"          |

| Mark    | Length | Web Depth Start/End | Web Plate Thick Length | Outside Flange W x Thk x Length | Inside Flange W x Thk x Length |
|---------|--------|---------------------|------------------------|---------------------------------|--------------------------------|
| RF3-300 | 150.5  | 17.8/41.0           | 0.250 109.2            | 6 x 1/4" x 149.7                | 6 x 1/4" x 111.6               |
| RF3-301 | 391.1  | 11.0/37.4           | 0.313 43.6             | 6 x 5/16" x 37.7                | 6 x 1/4" x 390.0               |
| RF3-302 | 415.2  | 17.0/37.0           | 0.188 228.0            | 8 x 1/4" x 414.1                | 6 x 1/4" x 151.9               |
|         |        | 37.0/17.1           | 0.188 239.0            |                                 | 6 x 1/4" x 240.9               |
|         |        | 17.1/19.1           | 0.188 13.0             |                                 | 8 x 1/4" x 176.8               |
| RF3-303 | 225.1  | 19.1/48.0           | 0.313 162.1            | 8 x 5/16" x 63.8                | 8 x 1/4" x 171.9               |
|         |        | 53.3/13.8           | 0.313 224.3            |                                 | 6 x 1/4" x 132.0               |
| RF1-400 | 139.6  | 7.8/ 7.8            | 0.135 139.7            | 6 x 1/4" x 139.0                | 6 x 1/4" x 111.2               |
| RF1-401 | 112.0  | 7.5/ 7.5            | 0.135 111.9            | 6 x 1/4" x 111.2                | 6 x 1/4" x 111.2               |
| RF1-500 | 122.6  | 7.8/ 7.8            | 0.135 122.7            | 6 x 1/4" x 122.0                | 6 x 1/4" x 115.0               |
| RF1-501 | 188.3  | 7.5/ 7.5            | 0.135 188.1            | 6 x 1/4" x 187.5                | 6 x 1/4" x 187.5               |

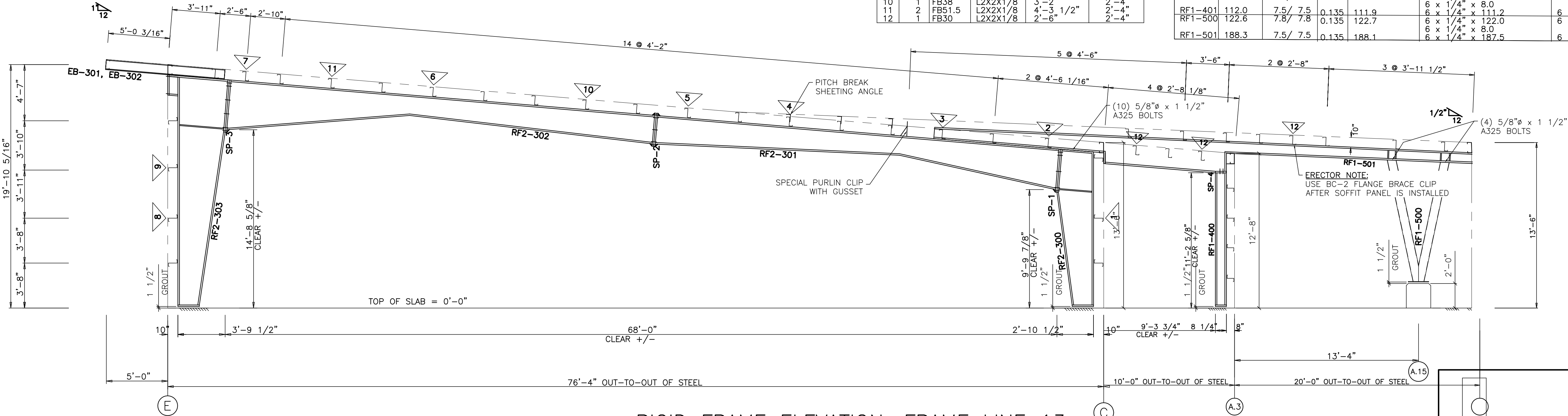


RIGID FRAME ELEVATION: FRAME LINE 12

| Mark | Qty | Top | Bot | Int  | Type  | Dia  | Length |
|------|-----|-----|-----|------|-------|------|--------|
| SP-1 | 4   | 4   | 2   | A325 | 1.000 | 2.75 |        |
| SP-2 | 4   | 4   | 2   | A325 | 0.625 | 2.00 |        |
| SP-3 | 4   | 4   | 4   | A325 | 1.000 | 2.75 |        |
| SP-4 | 4   | 0   | 0   | A325 | 0.625 | 1.75 |        |

| ▽ ID | # | SIDES | MARK   | PART     | LENGTH     | BRACE DISTANCE |
|------|---|-------|--------|----------|------------|----------------|
| 1    | 2 |       | FB43.5 | L2X2X1/8 | 3'-7 1/2"  | 2'-4"          |
| 2    | 2 |       | FB55   | L2X2X1/8 | 4'-7"      | 3'-4"          |
| 3    | 1 |       | FB37   | L2X2X1/8 | 3'-1"      | 2'-4"          |
| 4    | 1 |       | FB38   | L2X2X1/8 | 3'-0"      | 2'-4"          |
| 5    | 1 |       | FB38.5 | L2X2X1/8 | 3'-2 1/2"  | 2'-4"          |
| 6    | 1 |       | FB34.5 | L2X2X1/8 | 2'-10 1/2" | 2'-4"          |
| 7    | 2 |       | FB61   | L2X2X1/8 | 5'-1"      | 3'-4"          |
| 8    | 2 |       | FB52.5 | L2X2X1/8 | 4'-4 1/2"  | 3'-4"          |
| 9    | 2 |       | FB58   | L2X2X1/8 | 4'-10"     | 2'-4"          |
| 10   | 1 |       | FB38   | L2X2X1/8 | 3'-2"      | 2'-4"          |
| 11   | 2 |       | FB51.5 | L2X2X1/8 | 4'-3 1/2"  | 2'-4"          |
| 12   | 1 |       | FB30   | L2X2X1/8 | 2'-6"      | 2'-4"          |

| Mark    | Length | Web Depth Start/End | Web Plate Thick Length | Outside Flange W x Thk x Length | Inside Flange W x Thk x Length |
|---------|--------|---------------------|------------------------|---------------------------------|--------------------------------|
| RF2-300 | 150.3  | 17.8/34.0           | 0.250 111.5            | 6 x 1/4" x 149.5                | 6 x 1/4" x 112.6               |
| RF2-301 | 397.8  | 34.0/30.6           | 0.313 40.6             | 6 x 3/8" x 30.9                 | 6 x 1/4" x 396.5               |
| RF2-302 | 419.3  | 37.0/16.4           | 0.250 168.5            | 6 x 1/4" x 396.5                | 6 x 1/4" x 157.9               |
|         |        | 16.4/25.0           | 0.188 228.0            |                                 | 6 x 1/4" x 240.1               |
|         |        | 25.0/17.0           | 0.188 239.0            |                                 | 6 x 1/4" x 240.1               |
|         |        | 17.0/19.0           | 0.188 13.0             |                                 | 6 x 1/4" x 180.4               |
| RF2-303 | 225.1  | 19.0/46.0           | 0.250 166.0            | 6 x 1/2" x 59.2                 | 6 x 1/4" x 172.4               |
|         |        | 49.1/45.0           | 0.313 53.7             |                                 | 6 x 1/4" x 132.0               |
|         |        | 45.0/17.7           | 0.250 170.3            |                                 | 6 x 1/4" x 224.0               |
| RF1-400 | 139.6  | 7.6/ 7.8            | 0.135 139.7            | 6 x 1/4" x 139.0                | 6 x 1/4" x 8.0                 |
| RF1-401 | 112.0  | 7.5/ 7.5            | 0.135 111.9            | 6 x 1/4" x 111.2                | 6 x 1/4" x 111.2               |
| RF1-500 | 122.6  | 7.8/ 7.8            | 0.135 122.7            | 6 x 1/4" x 122.0                | 6 x 1/4" x 115.0               |
| RF1-501 | 188.3  | 7.5/ 7.5            | 0.135 188.1            | 6 x 1/4" x 187.5                | 6 x 1/4" x 187.5               |

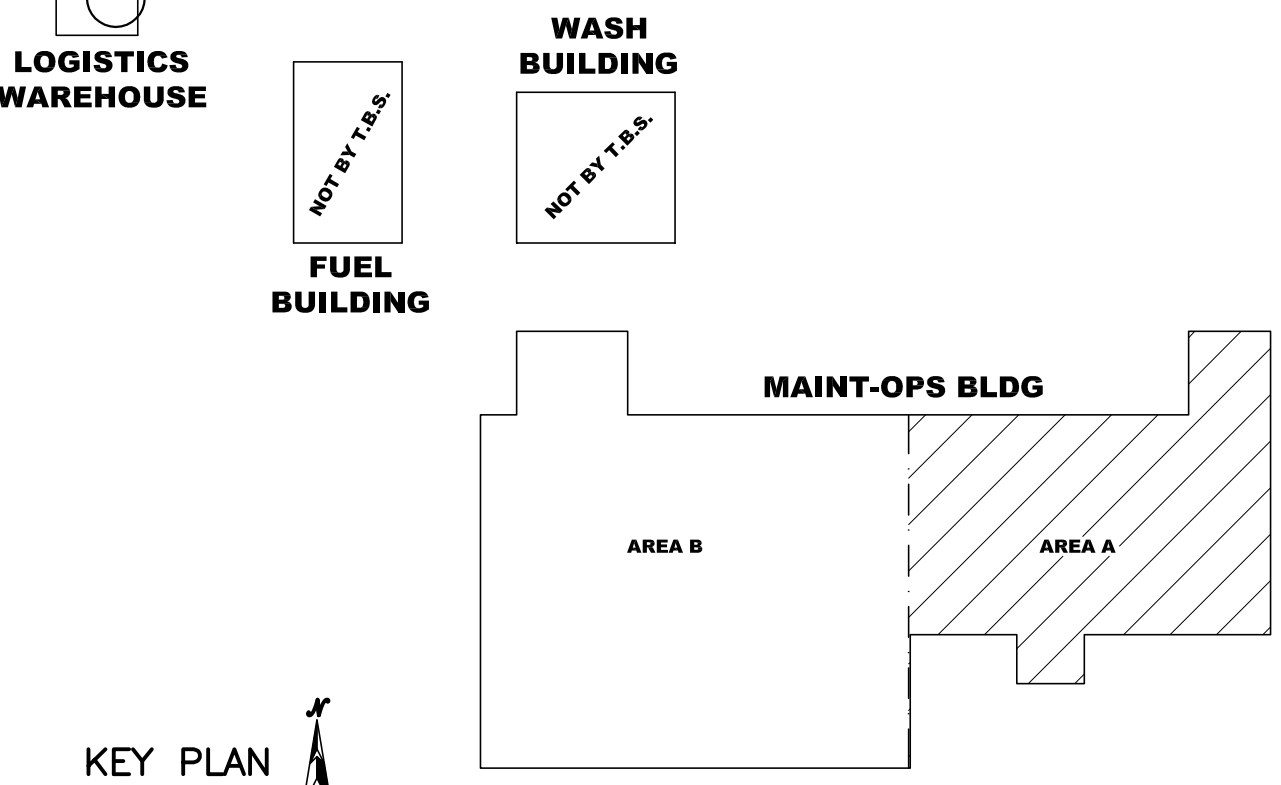


RIGID FRAME ELEVATION: FRAME LINE 13

**FOR CONSTRUCTION  
SEPTEMBER 7, 2015**

**Peter Wallis and Associates**  
**Structural Engineers**

FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #26156  
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**TRIDENT**  
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DESIGN PROVIDED BY :  
**PETER WALLIS**  
FLORIDA P.E.# 34418  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Rigid Frame Elevation  
Maint-Ops Building  
CUSTOMER: Willis Smith Construction

| REVISIONS |                                                     |
|-----------|-----------------------------------------------------|
| △         | FOR APPROVAL                                        |
| △         | REVISED FOR APPROVAL                                |
| △         | FOR CONSTRUCTION                                    |
| △         | AREA B PRIMARY & SECONDARY ONLY                     |
| △         | REVISED FOR CONSTRUCTION                            |
| △         | AREA A (LINES 9 thru 11.9) PRIMARY & SECONDARY ONLY |
| △         | REVISED FOR CONSTRUCTION                            |
| △         | AREA A PRIMARY & SECONDARY                          |
| △         | REVISED FOR CONSTRUCTION                            |
| △         | FOR CONSTRUCTION                                    |

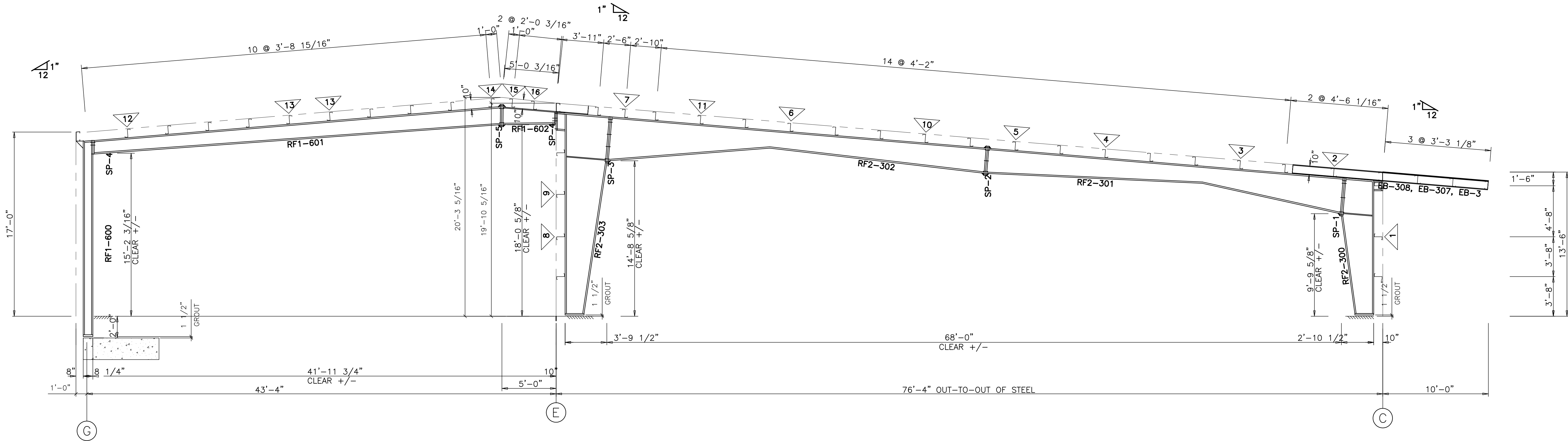
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|---------------|-----------|
| DRAWING DATE  | 1/30/15   |
| DRAWN BY      | TDB       |
| CHECKED BY    | SS        |
| DRAWING SCALE | N.T.S.    |
| JOB NO.       | 15-011-07 |
| SHEET         | E18       |



| SPLICE BOLT TABLE |         |     |     |      |       |        |
|-------------------|---------|-----|-----|------|-------|--------|
| Mark              | Qty Top | Bot | Int | Type | Dia   | Length |
| SP-1              | 4       | 4   | 2   | A325 | 1.000 | 2.75   |
| SP-2              | 4       | 4   | 2   | A325 | 0.625 | 2.00   |
| SP-3              | 4       | 4   | 4   | A325 | 1.000 | 2.75   |
| SP-4              | 4       | 0   | 0   | A325 | 0.625 | 1.75   |
| SP-5              | 4       | 4   | 0   | A325 | 0.625 | 1.75   |

| FLANGE BRACE TABLE |   |        |          |            |                |
|--------------------|---|--------|----------|------------|----------------|
| ▽ ID               | # | MARK   | PART     | LENGTH     | BRACE DISTANCE |
| 1                  | 2 | FB43.5 | L2X2X1/8 | 3'-7 1/2"  | 2'-4"          |
| 2                  | 2 | FB55   | L2X2X1/8 | 4'-7"      | 3'-4"          |
| 3                  | 1 | FB37   | L2X2X1/8 | 3'-1"      | 2'-4"          |
| 4                  | 1 | FB36   | L2X2X1/8 | 3'-0"      | 2'-4"          |
| 5                  | 1 | FB38.5 | L2X2X1/8 | 3'-2 1/2"  | 2'-4"          |
| 6                  | 1 | FB34.5 | L2X2X1/8 | 2'-10 1/2" | 2'-4"          |
| 7                  | 2 | FB61   | L2X2X1/8 | 5'-1"      | 3'-4"          |
| 8                  | 2 | FB52.5 | L2X2X1/8 | 4'-4 1/2"  | 3'-4"          |
| 9                  | 2 | FB58   | L2X2X1/8 | 4'-10"     | 3'-4"          |
| 10                 | 1 | FB38   | L2X2X1/8 | 3'-2"      | 2'-4"          |
| 11                 | 2 | FB51.5 | L2X2X1/8 | 4'-3 1/2"  | 2'-4"          |
| 12                 | 1 | FB32   | L2X2X1/8 | 2'-8"      | 2'-4"          |
| 13                 | 1 | FB33   | L2X2X1/8 | 2'-9"      | 2'-4"          |
| 14                 | 1 | FB34.5 | L2X2X1/8 | 2'-10 1/2" | 2'-4"          |
| 15                 | 1 | FB33.5 | L2X2X1/8 | 2'-9 1/2"  | 2'-4"          |
| 16                 | 1 | FB32   | L2X2X1/8 | 2'-8"      | 2'-4"          |

| MEMBER TABLE |        |           |       |           |                                                        |
|--------------|--------|-----------|-------|-----------|--------------------------------------------------------|
| Mark         | Length | Web Depth |       | Web Plate |                                                        |
|              |        | Start/End | Thick | Length    |                                                        |
| RF2-300      | 150.3  | 17.8/34.0 | 0.250 | 111.5     | Outside Flange<br>W x Thk x Length<br>6 x 1/4" x 149.5 |
| RF2-301      | 397.8  | 34.0/30.6 | 0.313 | 40.6      | 6 x 3/8" x 30.9                                        |
|              |        | 37.0/16.4 | 0.250 | 168.5     | 6 x 1/4" x 396.5                                       |
| RF2-302      | 419.3  | 16.4/25.0 | 0.188 | 228.0     | 6 x 1/4" x 157.9                                       |
|              |        | 25.0/17.0 | 0.188 | 239.0     | 6 x 1/4" x 240.1                                       |
|              |        | 17.0/19.0 | 0.188 | 13.0      | 6 x 1/4" x 240.1                                       |
|              |        | 19.0/46.0 | 0.250 | 166.0     | 6 x 1/4" x 180.4                                       |
| RF2-303      | 225.1  | 49.1/45.0 | 0.313 | 53.7      | 6 x 1/2" x 59.2                                        |
|              |        | 45.0/17.7 | 0.250 | 170.3     | 6 x 1/4" x 224.0                                       |
| RF1-600      | 218.5  | 7.8/ 7.8  | 0.135 | 218.5     | 6 x 1/4" x 217.9                                       |
| RF1-601      | 445.1  | 12.0/14.7 | 0.135 | 239.0     | 6 x 1/4" x 8.0                                         |
|              |        | 14.7/17.0 | 0.135 | 206.3     | 6 x 3/8" x 444.3                                       |
| RF1-602      | 60.4   | 17.0/10.0 | 0.135 | 60.8      | 6 x 1/4" x 59.7                                        |
|              |        |           |       |           | 6 x 1/4" x 59.8                                        |



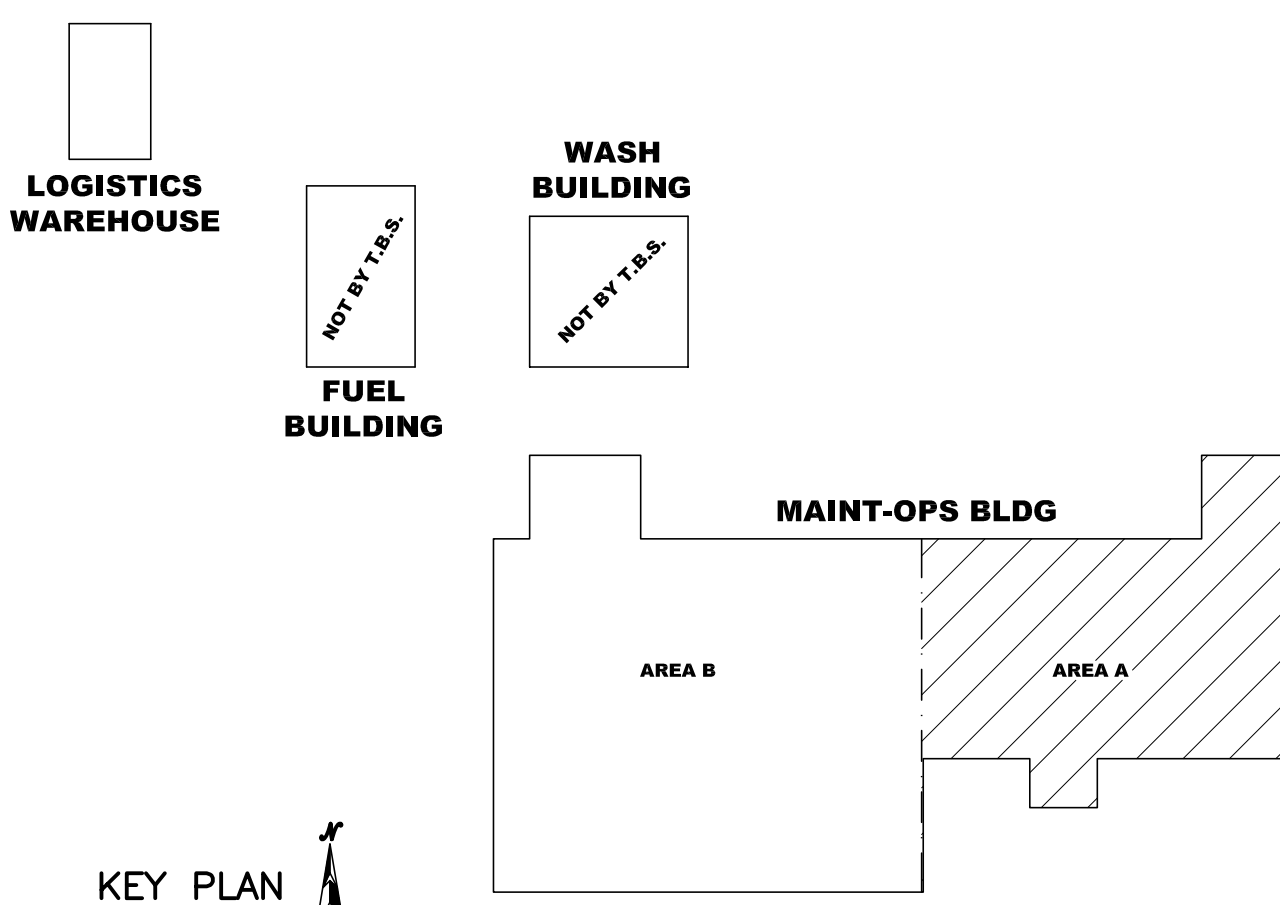
RIGID FRAME ELEVATION: FRAME LINE 15

FOR CONSTRUCTION  
SEPTEMBER 7, 2015

**Peter Wallis and Associates**  
**Structural Engineers**

FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #26156

7313 merchant court, sarasota, fl 34240  
tel. 941-907-9192  
peter.wallis.eng@gmail.com



| REVISIONS |                                 |         |
|-----------|---------------------------------|---------|
| A         | FOR APPROVAL                    | 3.10.15 |
| B         | REVISED FOR APPROVAL            | TDB     |
| C         | FOR CONSTRUCTION                | 3.26.15 |
| D         | AREA B PRIMARY & SECONDARY ONLY | TDB     |
| E         | FOR CONSTRUCTION                | 7.10.15 |
| F         | AREA A PRIMARY & SECONDARY      | TDB     |
| G         | REVISED FOR CONSTRUCTION        | 8.10.15 |
| H         | FOR CONSTRUCTION                | TDB     |
| I         | REVISED FOR CONSTRUCTION        | 8.24.15 |
| J         | FOR CONSTRUCTION                | TDB     |
| K         | FOR CONSTRUCTION                | 9.7.15  |
| L         | FOR CONSTRUCTION                | TDB     |
| M         | FOR CONSTRUCTION                | TDB     |
| N         | FOR CONSTRUCTION                | TDB     |
| O         | FOR CONSTRUCTION                | TDB     |
| P         | FOR CONSTRUCTION                | TDB     |
| Q         | FOR CONSTRUCTION                | TDB     |
| R         | FOR CONSTRUCTION                | TDB     |
| S         | FOR CONSTRUCTION                | TDB     |
| T         | FOR CONSTRUCTION                | TDB     |
| U         | FOR CONSTRUCTION                | TDB     |
| V         | FOR CONSTRUCTION                | TDB     |
| W         | FOR CONSTRUCTION                | TDB     |
| X         | FOR CONSTRUCTION                | TDB     |
| Y         | FOR CONSTRUCTION                | TDB     |
| Z         | FOR CONSTRUCTION                | TDB     |

|               |           |
|---------------|-----------|
| DRAWING DATE  | 1/30/15   |
| DRAWN BY      | TDB       |
| CHECKED BY    | SS        |
| DRAWING SCALE | N.T.S.    |
| JOB NO.       | 15-011-07 |
| SHEET         | E20       |

MANATEE COUNTY TRANSIT FLEET FACILITY  
BRADENTON, FLORIDA  
RIGID FRAME ELEVATION  
MAINT-OPS BUILDING

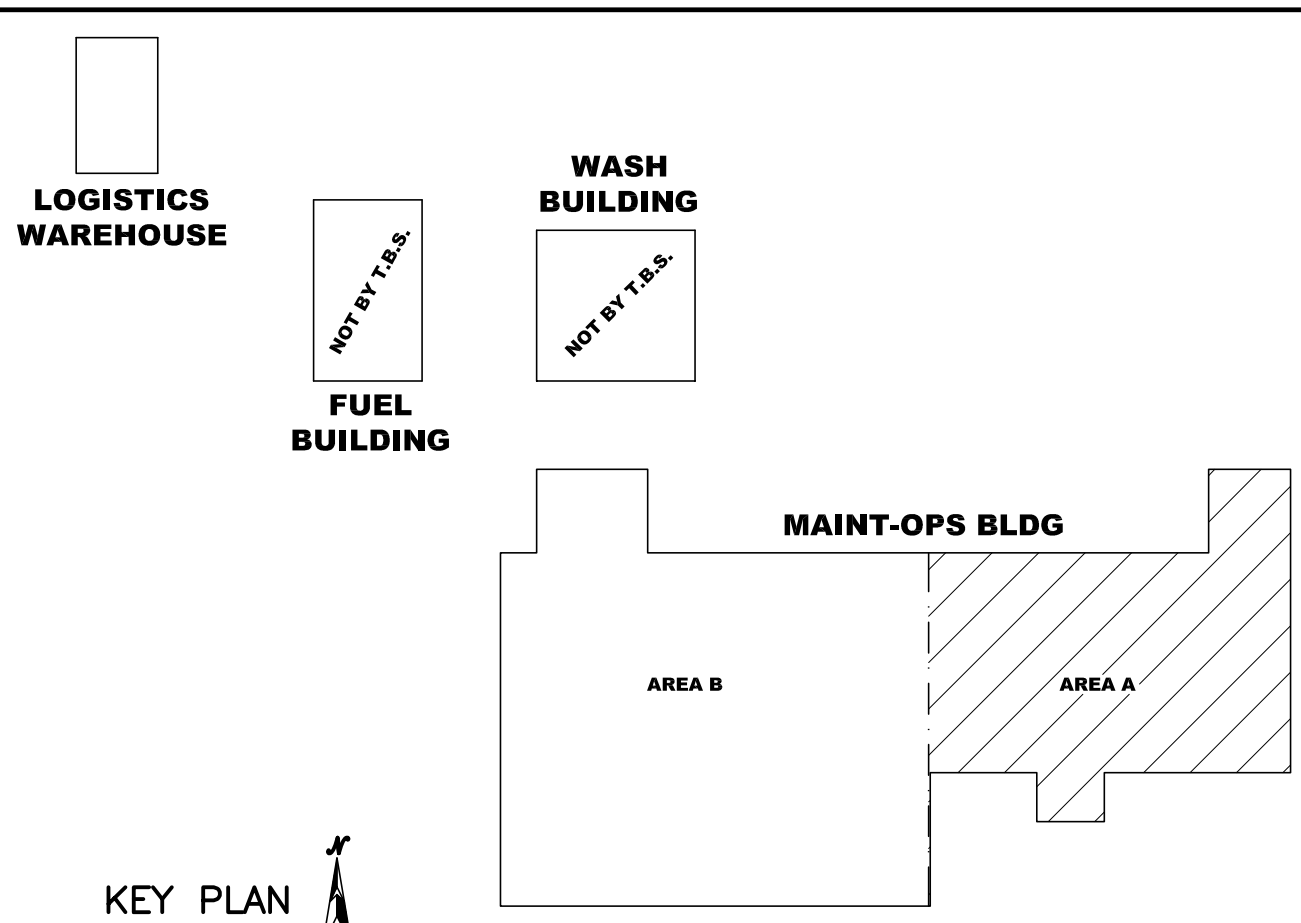
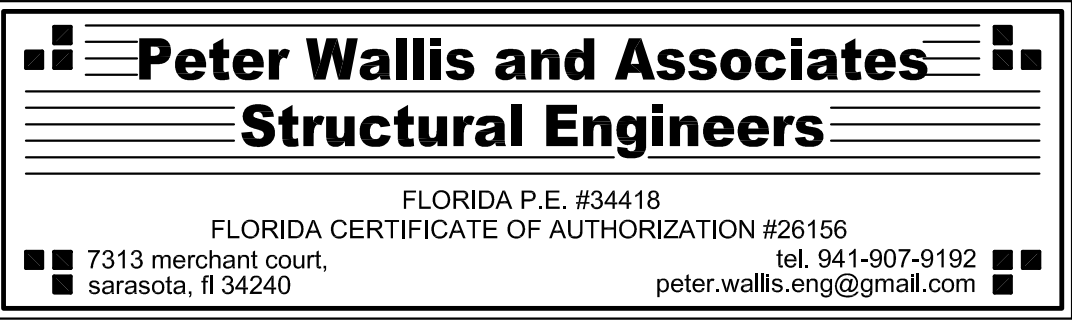
CUSTOMER: Willis Smith Construction

DESIGN PROVIDED BY:  
PETER WALLIS  
FLORIDA P.E. # 34418  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

TRIDENT  
BUILDINGSYSTEMS INC.  
2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067

| FLANGE BRACE TABLE |         |        |          |           |                |
|--------------------|---------|--------|----------|-----------|----------------|
| ▽ ID               | # SIDES | MARK   | PART     | LENGTH    | BRACE DISTANCE |
| 1                  | 1       | FB38   | L2X2X1/8 | 3'-2"     | 2'-4"          |
| 2                  | 1       | FB33.5 | L2X2X1/8 | 2'-9"     | 2'-4"          |
| 3                  | 1       | FB31   | L2X2X1/8 | 2'-8"     | 2'-4"          |
| 4                  | 1       | FB31.5 | L2X2X1/8 | 2'-7 1/2" | 2'-4"          |
| 6                  | 1       | FB33   | L2X2X1/8 | 2'-9"     | 2'-4"          |
| 7                  | 1       | FB34.5 | L2X2X1/8 | 2'-10"    | 2'-4"          |
| 8                  | 1       | FB31   | L2X2X1/8 | 2'-7"     | 2'-4"          |
| 9                  | 1       | FB32   | L2X2X1/8 | 2'-8"     | 2'-4"          |

| MEMBER  |        | TABLE                                            |                                  |                                |                                                         |                                                                            |                  |  |  |  |
|---------|--------|--------------------------------------------------|----------------------------------|--------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------|------------------|--|--|--|
| Mark    | Length | Web Depth<br>Start/End                           | Web Thick                        | Plate Length                   | Outside Flange<br>W x Thk x Length                      | Inside Flange<br>W x Thk x Length                                          |                  |  |  |  |
| RF1-300 | 150.5  | 11.5/28.0                                        | 0.188                            | 152.0                          | 6 x 1/4" x 149.8<br>6 x 1/4" x 26.0<br>6 x 1/4" x 402.3 | 6 x 1/4" x 125.5<br>6 x 1/4" x 61.4<br>6 x 1/4" x 88.2                     |                  |  |  |  |
| RF1-301 | 403.3  | 24.0/12.4<br>12.4/11.8<br>11.8/12.0<br>11.8/10.7 | 0.188<br>0.188<br>0.135<br>0.135 | 239.0<br>25.7<br>61.4<br>76.2  | 6 x 1/4" x 455.6                                        | 6 x 1/4" x 253.0<br>6 x 1/4" x 61.4<br>6 x 1/4" x 88.2                     |                  |  |  |  |
| RF1-302 | 456.3  | 10.7/10.0<br>10.0/10.1<br>10.1/10.9<br>10.9/13.0 | 0.135<br>0.135<br>0.135<br>0.135 | 55.4<br>61.8<br>132.3<br>208.0 |                                                         | 6 x 1/4" x 43.4<br>6 x 1/4" x 61.8<br>6 x 1/4" x 132.3<br>6 x 1/4" x 218.0 |                  |  |  |  |
| RF1-303 | 225.1  | 12.1/ 8.5                                        | 0.135                            | 224.4                          |                                                         | 6 x 1/4" x 22.5<br>6 x 1/4" x 224.4                                        | 6 x 1/4" x 206.8 |  |  |  |
| EC-300  | 159.4  | WBX10                                            |                                  |                                |                                                         |                                                                            |                  |  |  |  |
| EC-301  | 177.8  | WBX10                                            |                                  |                                |                                                         |                                                                            |                  |  |  |  |
| EC-302  | 193.5  | WBX10                                            |                                  |                                |                                                         |                                                                            |                  |  |  |  |
| RF1-600 | 218.5  | 7.8/ 7.8                                         | 0.135                            | 218.5                          | 6 x 1/4" x 217.9<br>6 x 1/4" x 8.0<br>6 x 3/8" x 444.3  | 6 x 1/4" x 205.9<br>6 x 3/4" x 443.4                                       |                  |  |  |  |
| RF1-601 | 445.1  | 12.0/14.7<br>14.7/17.0                           | 0.135<br>0.135                   | 239.0<br>206.3                 | 6 x 1/4" x 59.7                                         | 6 x 1/4" x 59.8                                                            |                  |  |  |  |
| RF1-602 | 60.4   | 17.0/10.0                                        | 0.135                            | 60.8                           |                                                         |                                                                            |                  |  |  |  |



| REVISIONS                                                                             |                                                           |         |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|
|  | FOR APPROVAL                                              | 3.10.15 |
|                                                                                       |                                                           | TDB     |
|  | REVISED FOR APPROVAL                                      | 3.26.15 |
|                                                                                       |                                                           | TDB     |
|  | FOR CONSTRUCTION<br>AREA B<br>PRIMARY & SECONDARY ONLY    | 7.10.15 |
|                                                                                       |                                                           | TDB     |
|  | REVISED FOR CONSTRUCTION<br>AREA A<br>PRIMARY & SECONDARY | 8.10.15 |
|                                                                                       |                                                           | TDB     |
|  | REVISED FOR CONSTRUCTION                                  | 8.24.15 |
|                                                                                       |                                                           | TDB     |
|  | FOR CONSTRUCTION                                          | 9.7.15  |
|                                                                                       |                                                           | TDB     |
|  |                                                           |         |
|  |                                                           |         |
|  |                                                           |         |

|               |
|---------------|
| DRAWING DATE  |
| 1/30/15       |
| DRAWN BY      |
| TDB           |
| CHECKED BY    |
| SS            |
| DRAWING SCALE |
| N.T.S.        |
| JOB NO.       |
| 15-011-07     |
| SHEET         |
| E21           |

DESIGN PROVIDED BY :  
PETER WALLIS  
FLORIDA P.E.# 34418  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE RESPONSIBLE SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

**Mandatee County Transit Fleet Facility**  
**Bradenton, Florida**  
**Rigid Frame Elevation**  
**Maint-Ops Building**

---

**CUSTOMER: Willis Smith Construction**



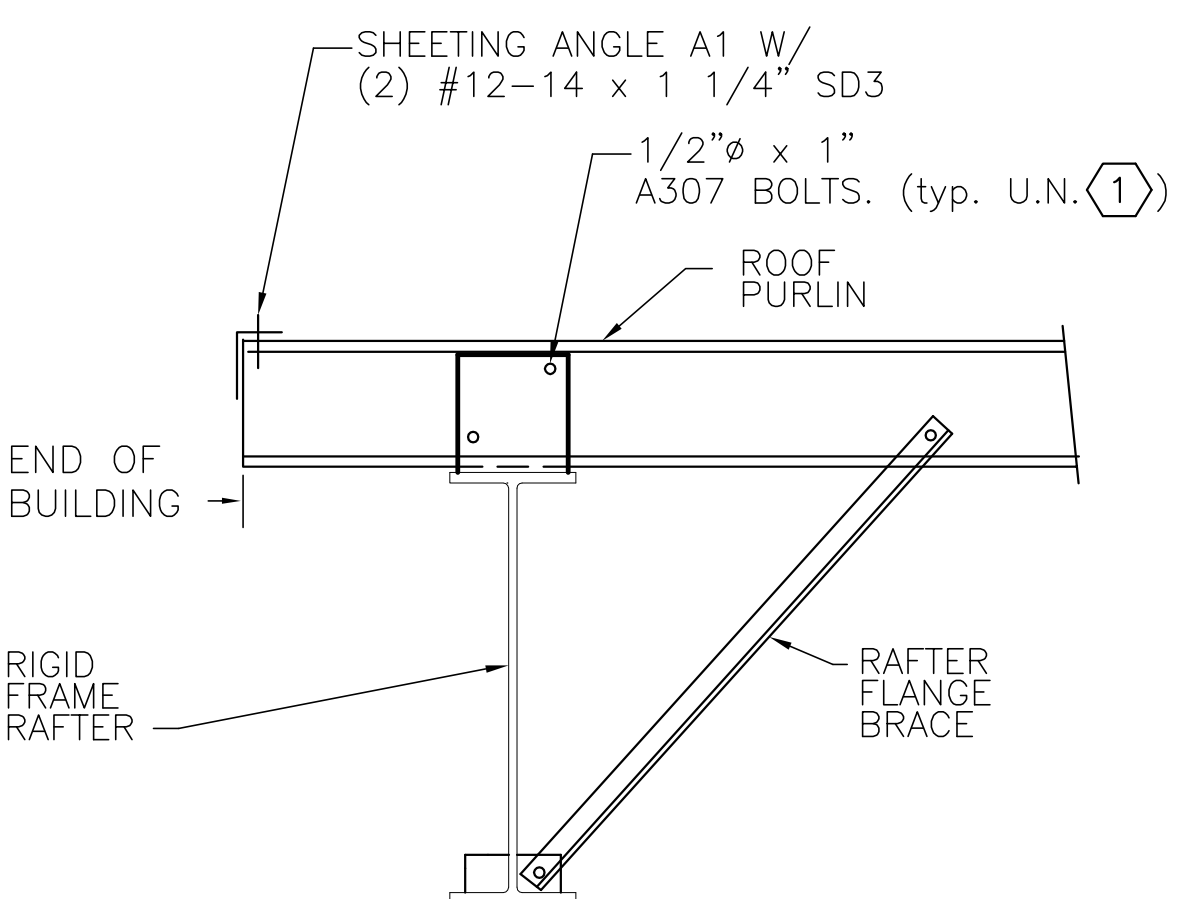
**TRIDENT**  
BUILDING SYSTEMS INC.

**44 YEARS**  
OF  
EXCELLENCE  
IN  
CONSTRUCTION

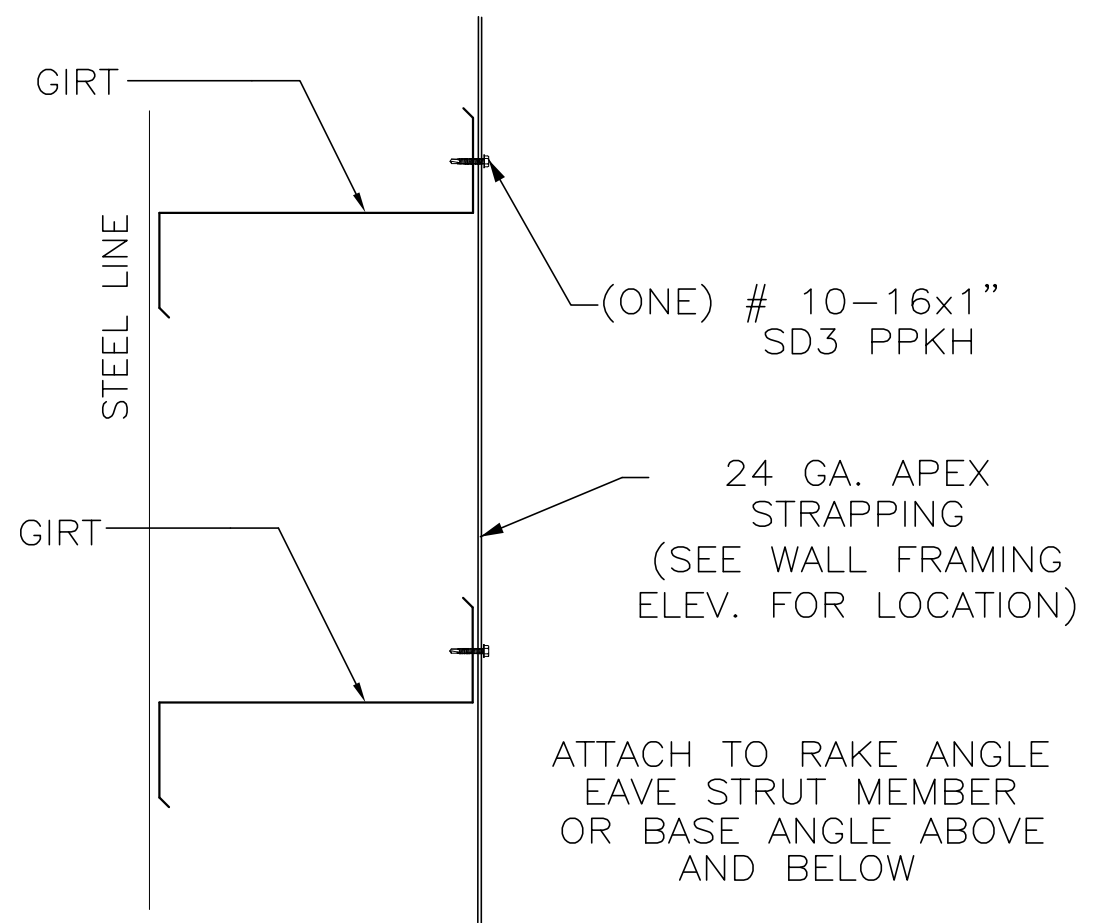
**ANSI**  
NATIONAL  
INSTITUTE  
OF  
STANDARDIZATION

Member of the  
International Building  
Exposition Co. (IBEX)

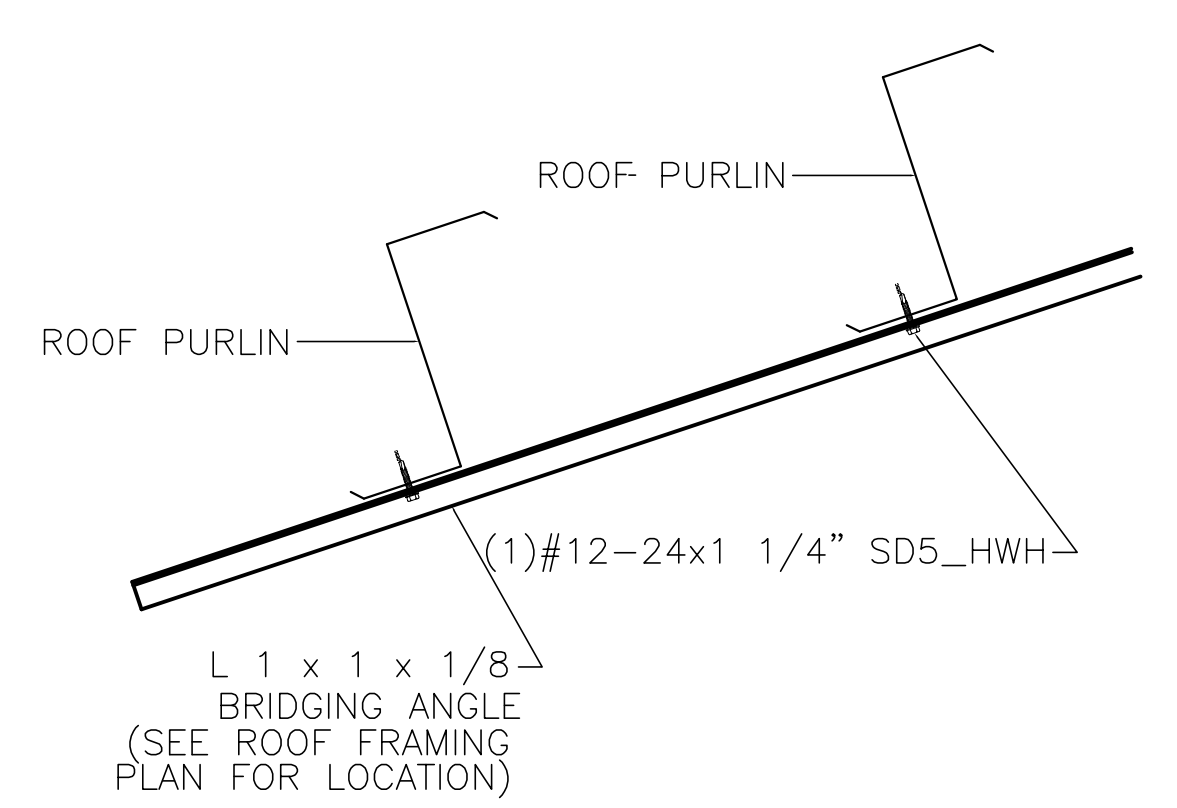
2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067



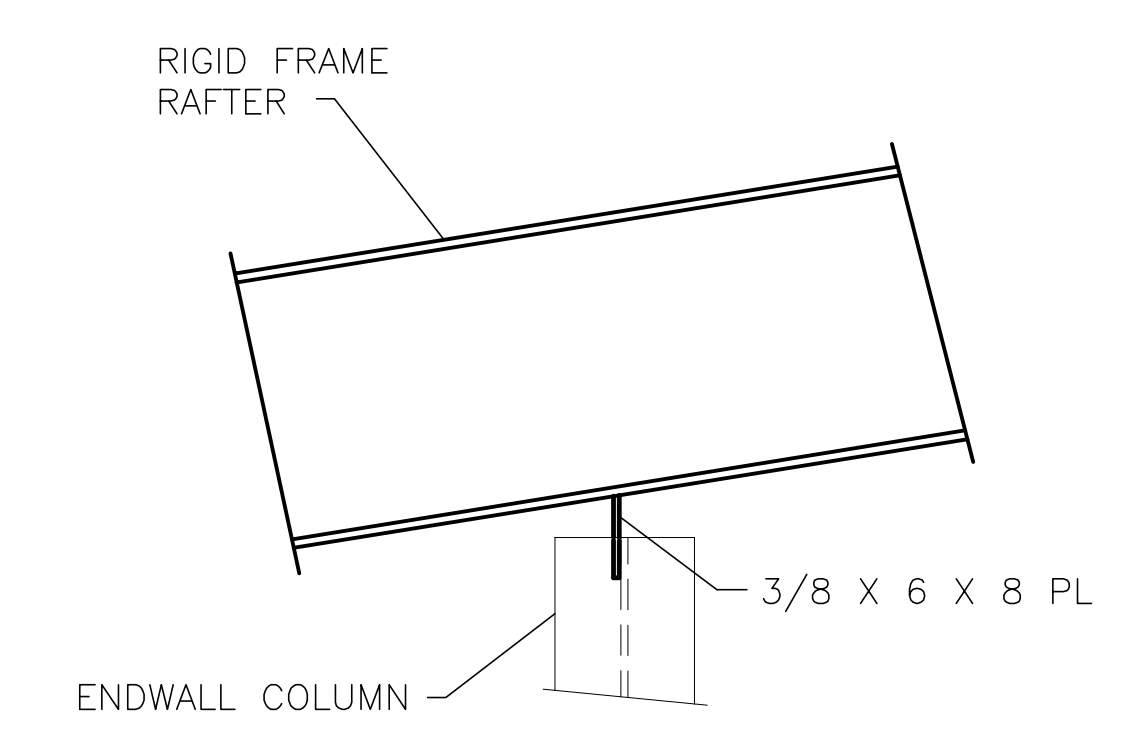
A10 ROOF PURLIN TO ENDWALL RIGID FRAME



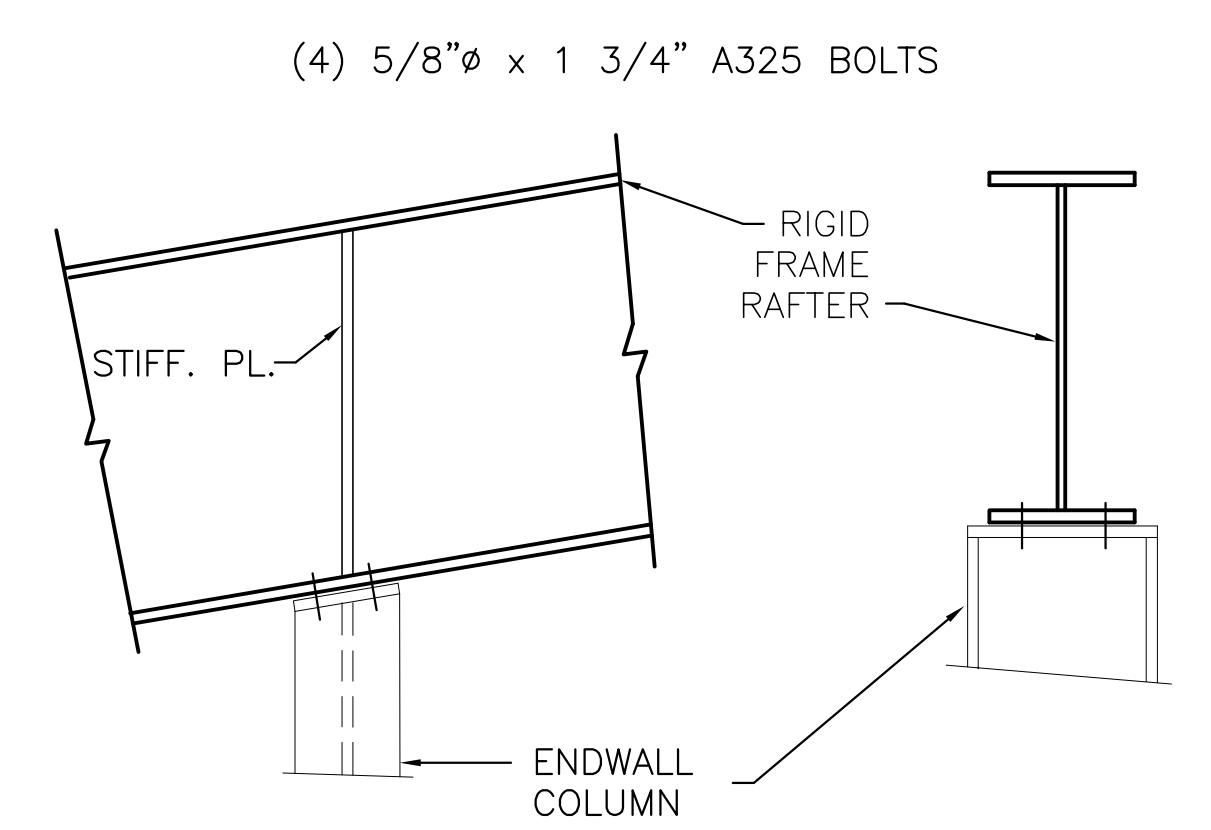
AN1 APEX STRAPPING TO WALL GIRTS



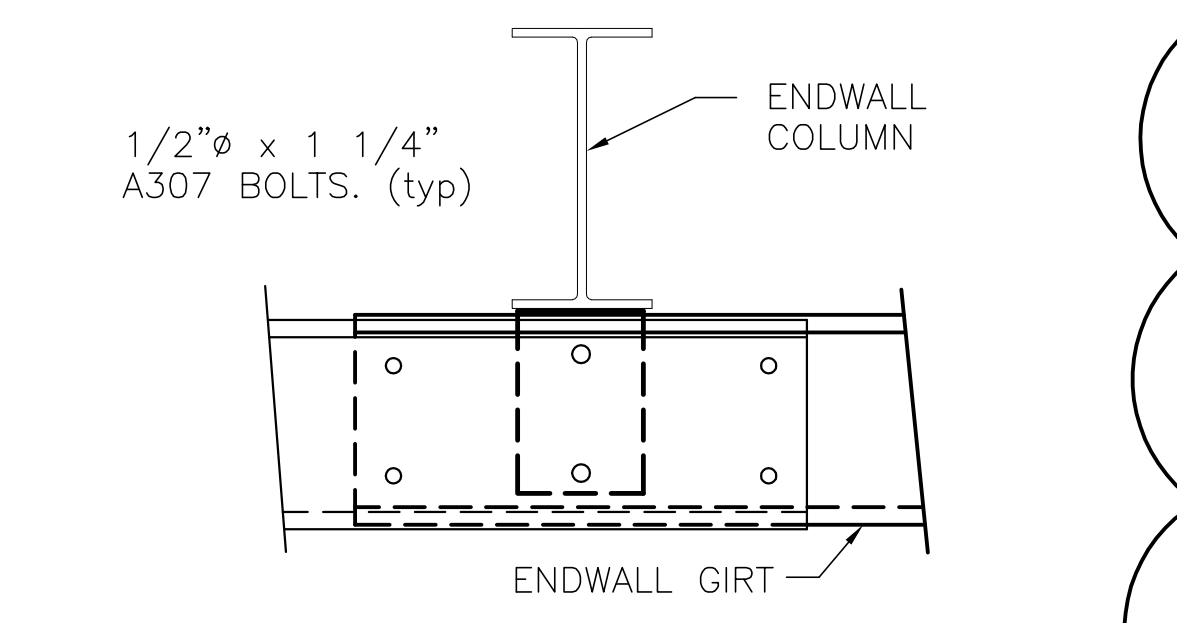
AN2 APEX STRAPPING TO ROOF PURLINS



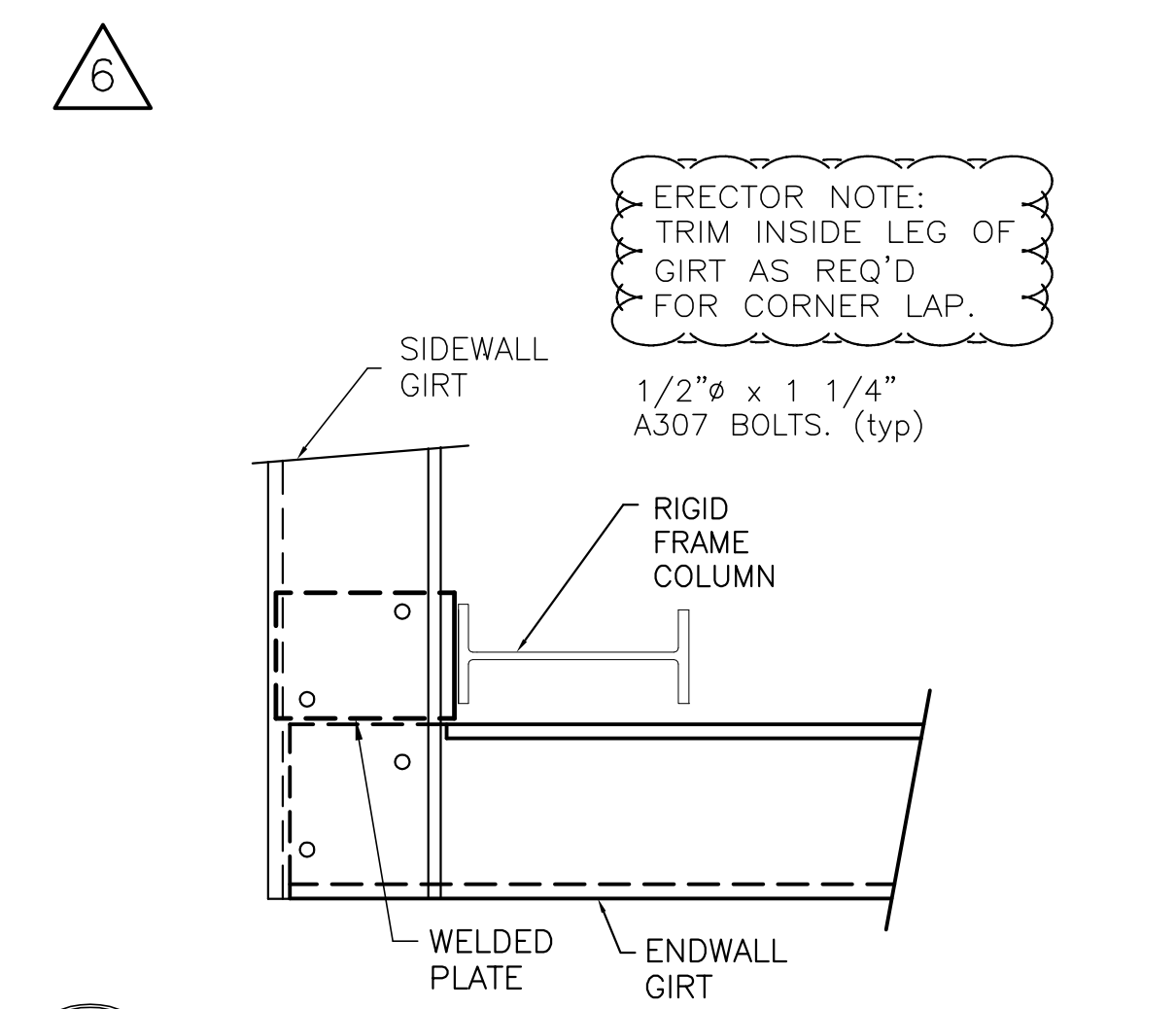
B19 RIGID FRAME RAFTER TO ENDWALL COLUMN



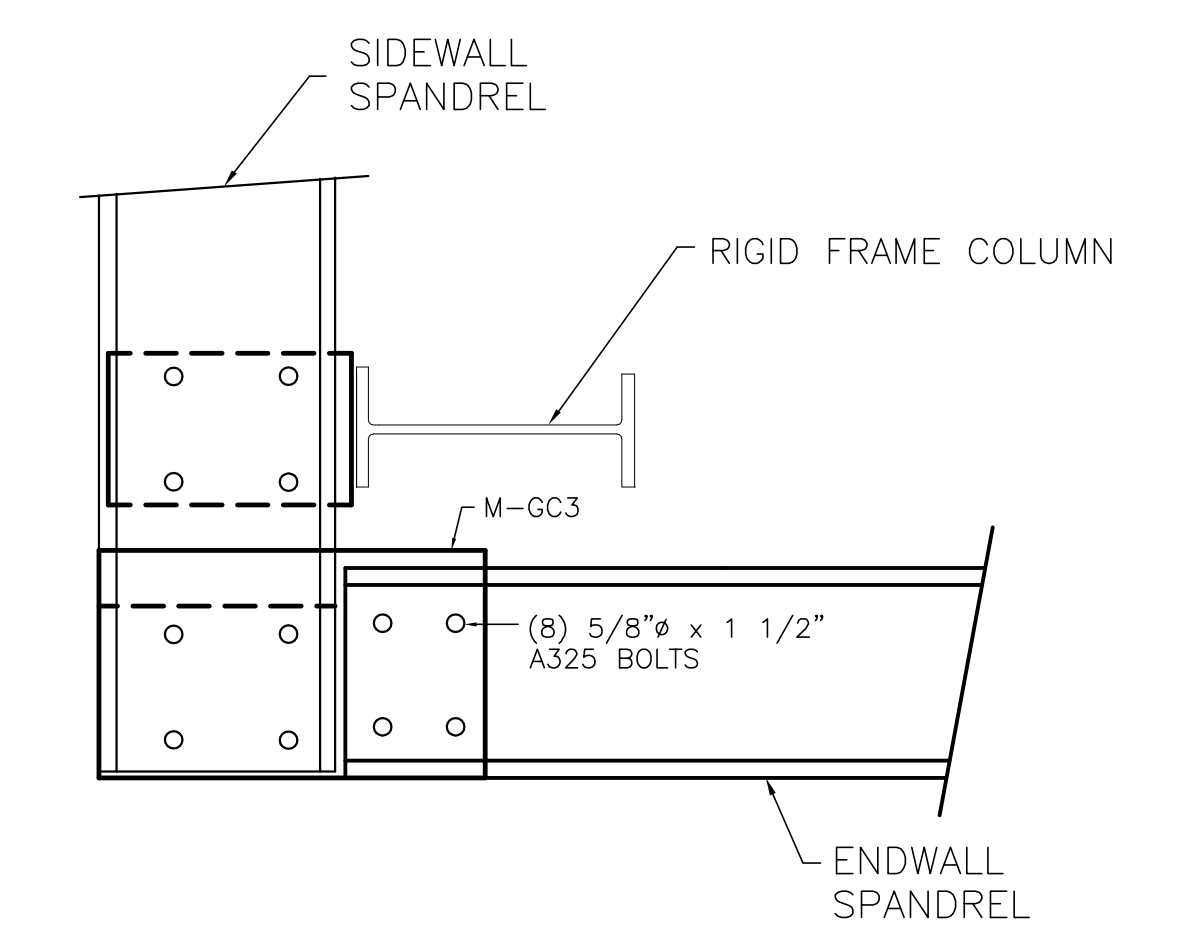
B20 RIGID FRAME RAFTER TO ENDWALL COLUMN



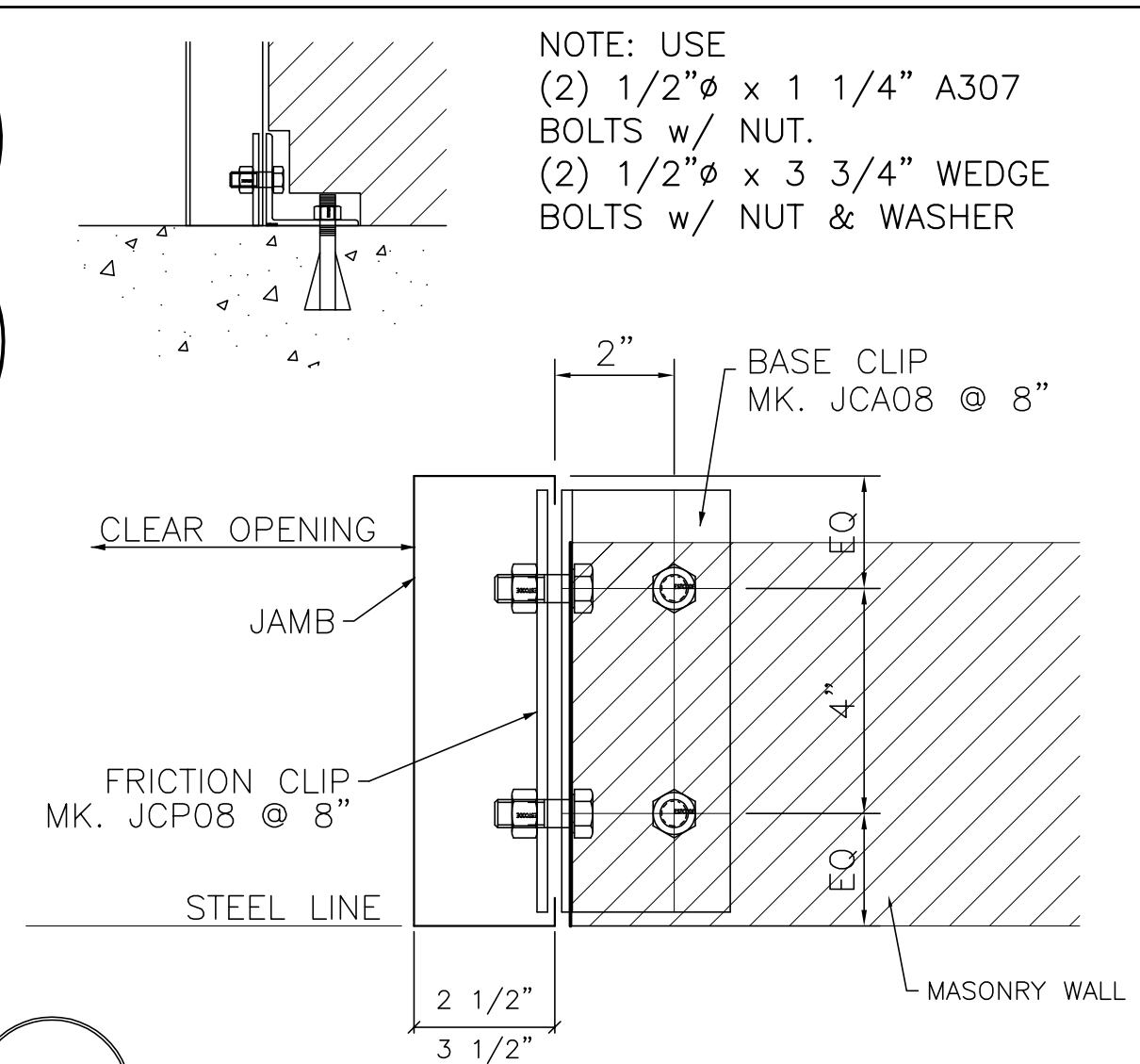
C12 ENDWALL COLUMN TO WALL GIRT



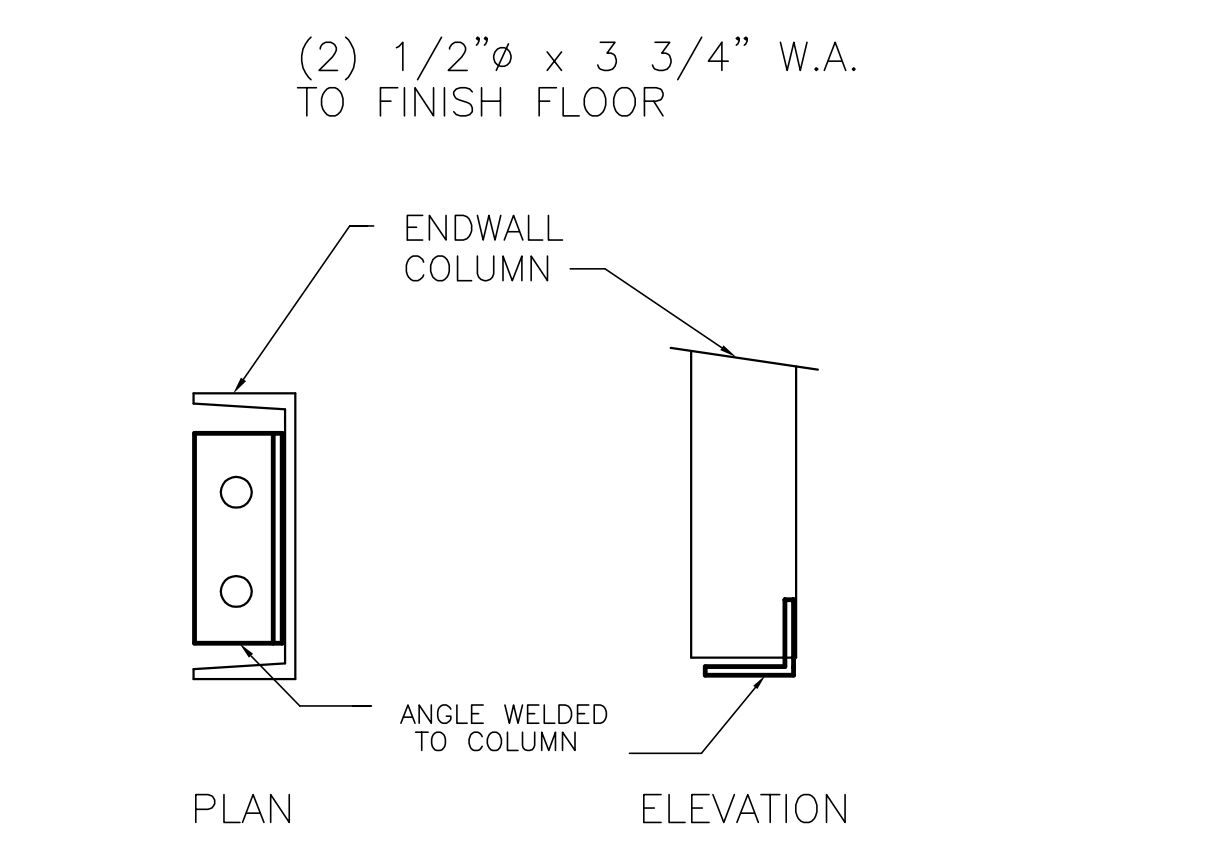
D15 CORNER COLUMN TO WALL GIRT



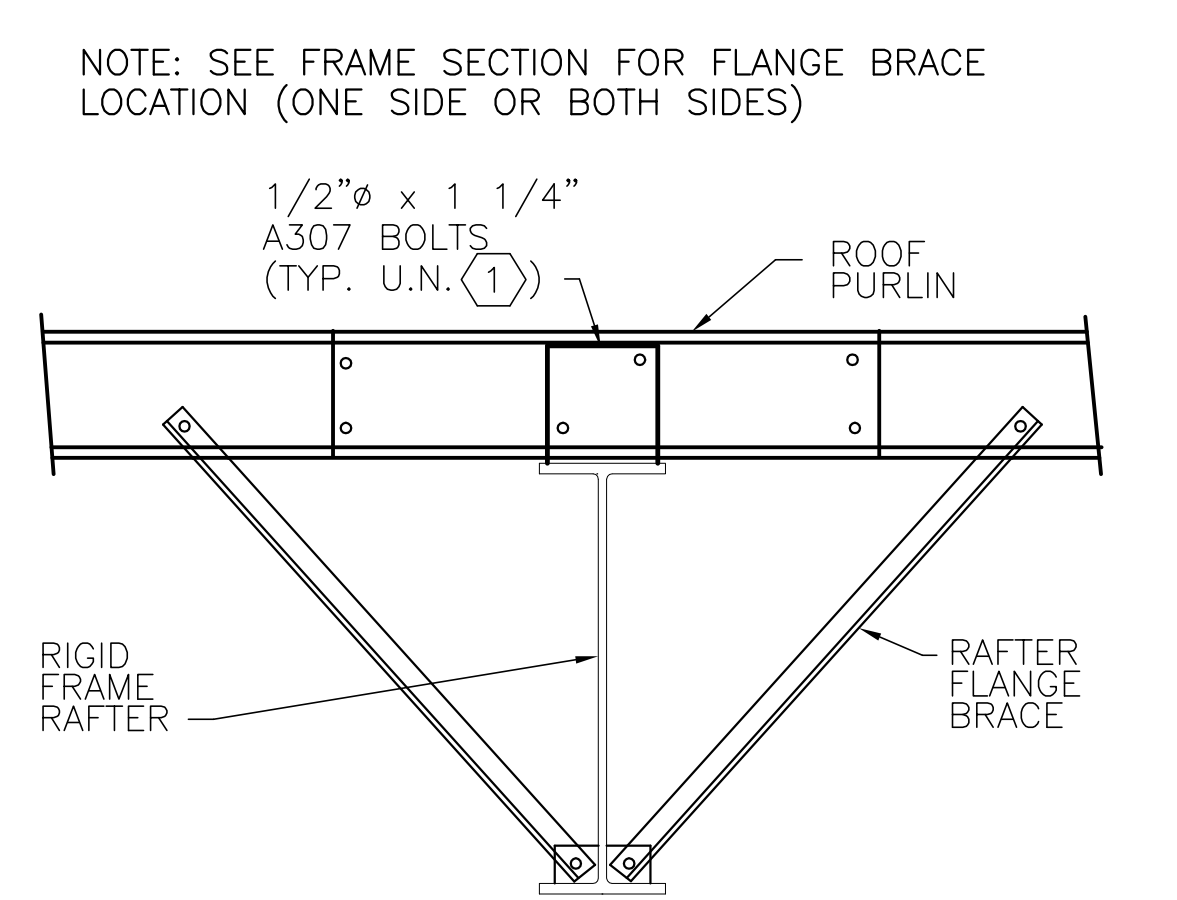
D16 SPANDEL CHANNEL CORNER DETAIL



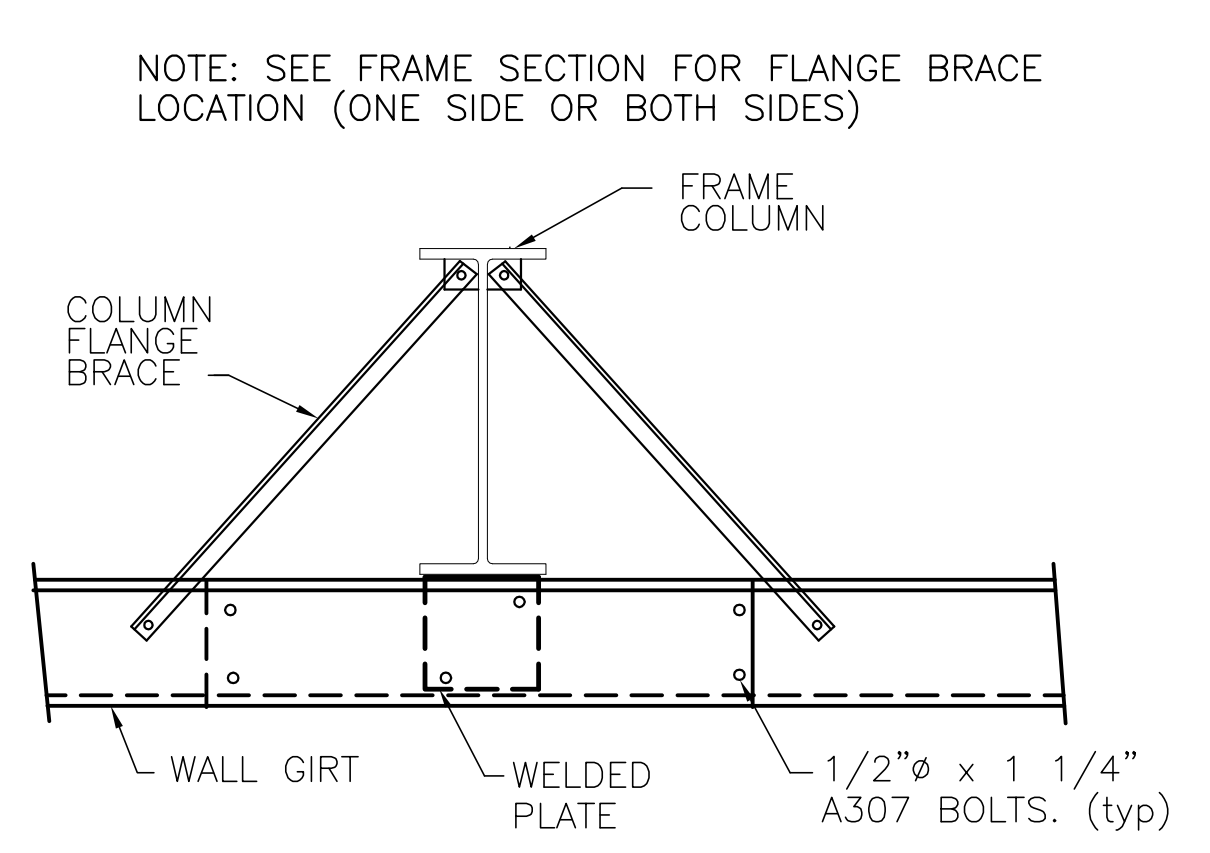
E6 JAMB TO FINISH FLOOR CONN.



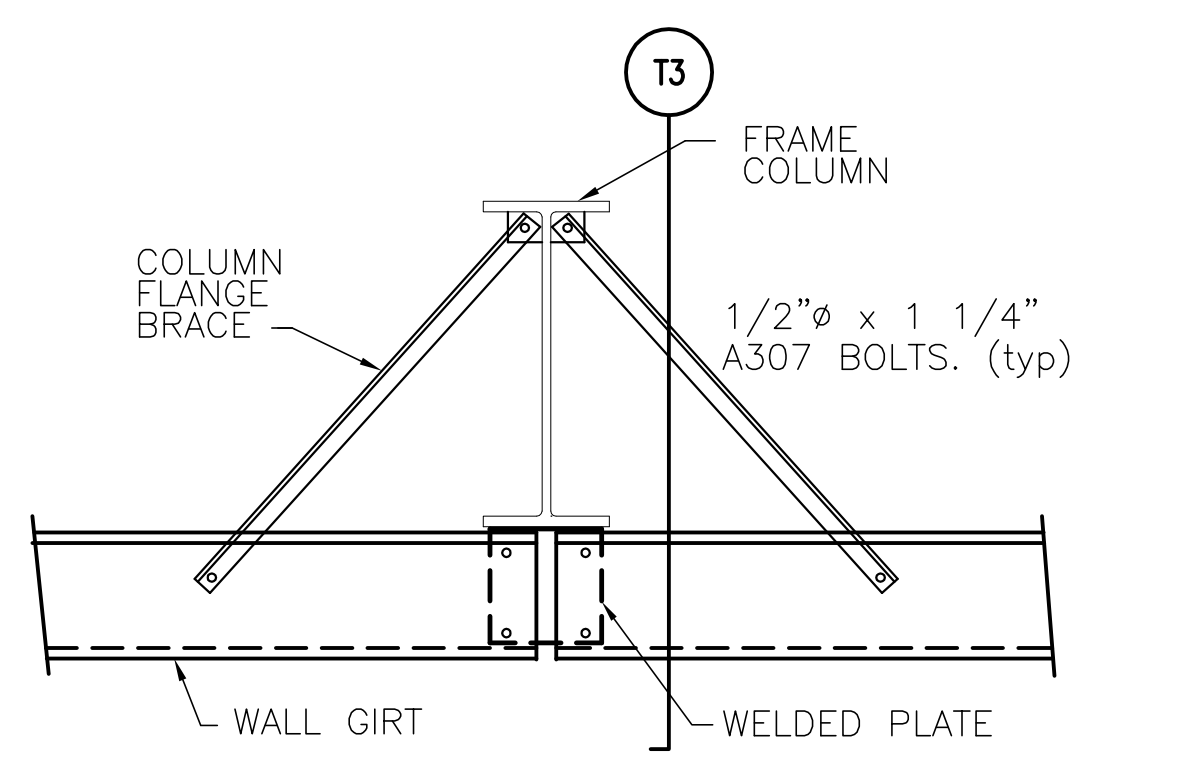
E14 BASE PLATE TO ENDWALL COLUMN OR DOOR JAMB



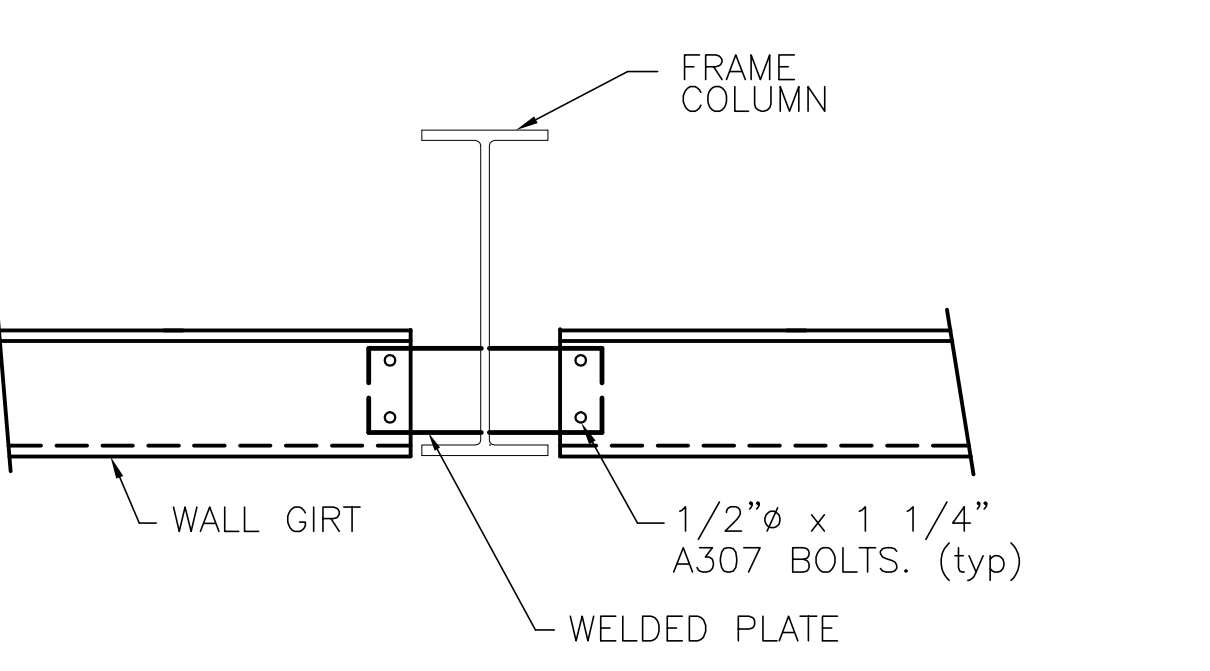
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



H2 WALL GIRT TO FRAME COLUMN



H4 WALL GIRT TO FRAME COLUMN



H6 WALL GIRT TO FRAME COLUMN

FOR CONSTRUCTION  
SEPTEMBER 7, 2015

**Peter Wallis and Associates**  
**Structural Engineers**  
FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #26156  
7313 merchant court, sarasota, fl 34240  
tel. 941-907-9192  
peter.wallis.eng@gmail.com

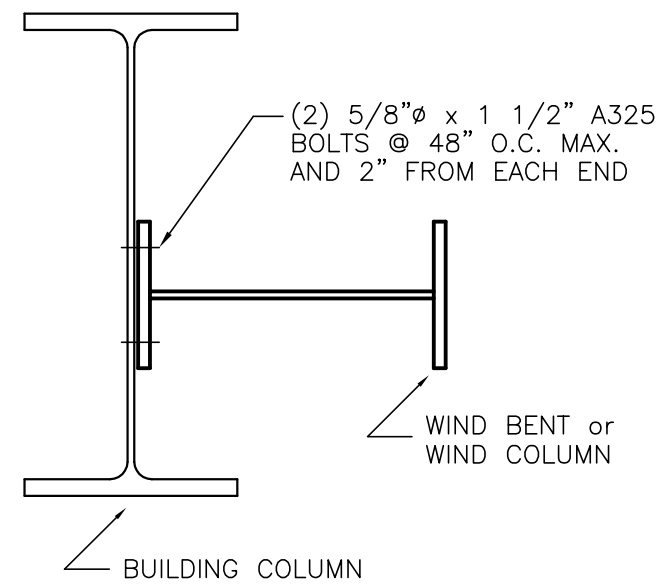
**TRIDENT**  
BUILDINGSYSTEMS INC.  
2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067

DESIGN PROVIDED BY :  
**PETER WALLIS**  
FLORIDA P.E.# 34418  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

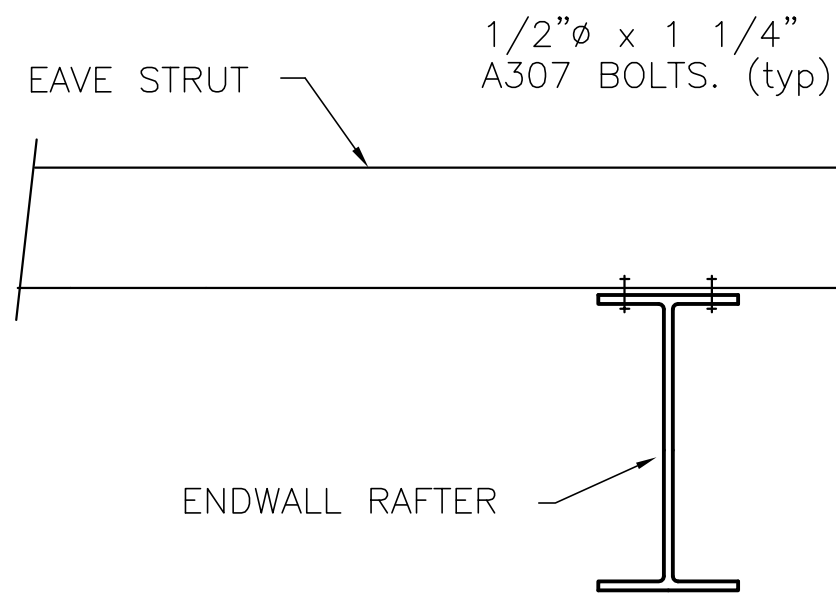
Manatee County Transit Fleet Facility  
Bradenton, Florida  
Details  
Maint—Ops Building  
CUSTOMER: Willis Smith Construction

| REVISIONS |                                             |
|-----------|---------------------------------------------|
| A         | FOR APPROVAL 3.10.15 TDB                    |
| B         | REVISED FOR APPROVAL 3.26.15 TDB            |
| C         | FOR CONSTRUCTION 7.10.15 TDB                |
| D         | AREA B PRIMARY & SECONDARY ONLY 7.10.15 TDB |
| E         | REVISED FOR CONSTRUCTION 8.10.15 TDB        |
| F         | AREA A PRIMARY & SECONDARY 8.24.15 TDB      |
| G         | REVISED FOR CONSTRUCTION 9.7.15 TDB         |
| H         | FOR CONSTRUCTION TDB                        |
| I         |                                             |
| J         |                                             |
| K         |                                             |
| L         |                                             |
| M         |                                             |
| N         |                                             |
| O         |                                             |
| P         |                                             |
| Q         |                                             |
| R         |                                             |
| S         |                                             |
| T         |                                             |
| U         |                                             |
| V         |                                             |
| W         |                                             |
| X         |                                             |
| Y         |                                             |
| Z         |                                             |

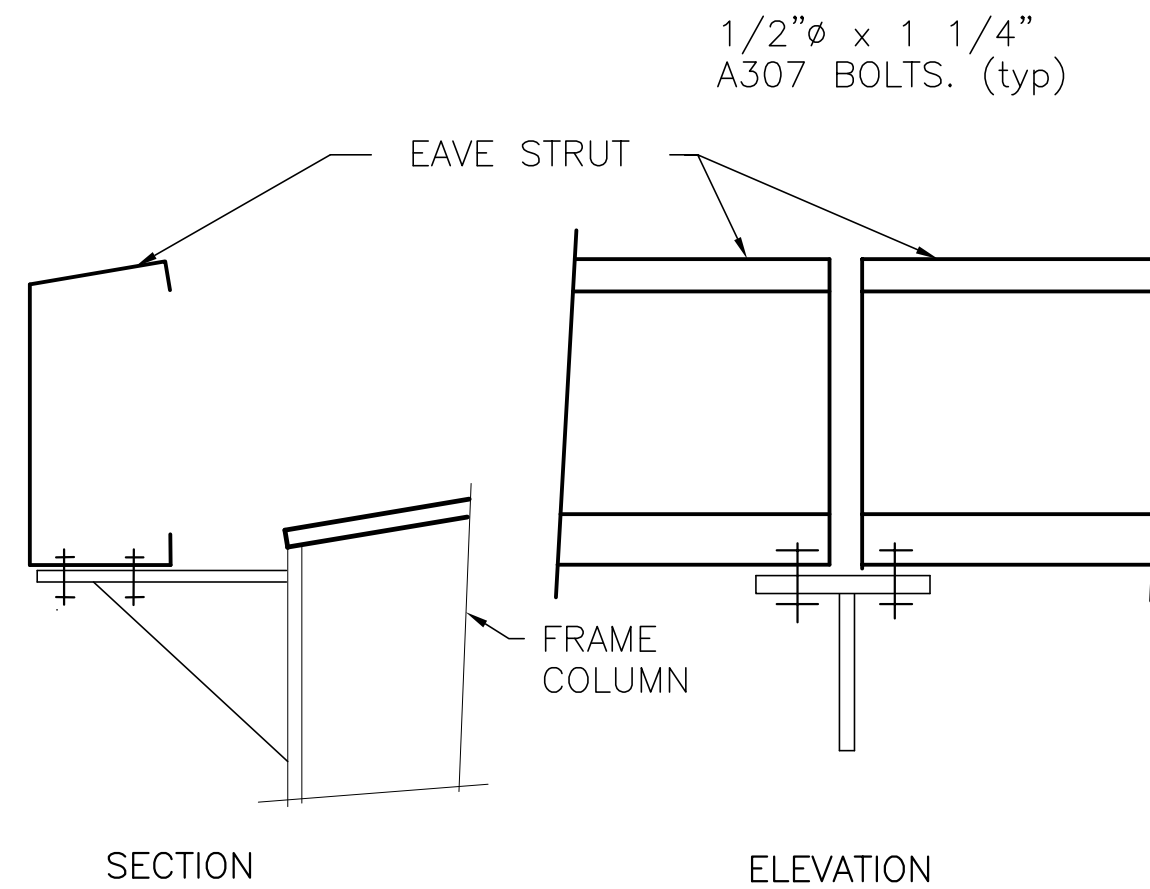
DRAWING DATE  
1/30/15  
DRAWN BY  
TDB  
CHECKED BY  
SS  
DRAWING SCALE  
N.T.S.  
JOB NO.  
15-011-07  
SHEET  
D1



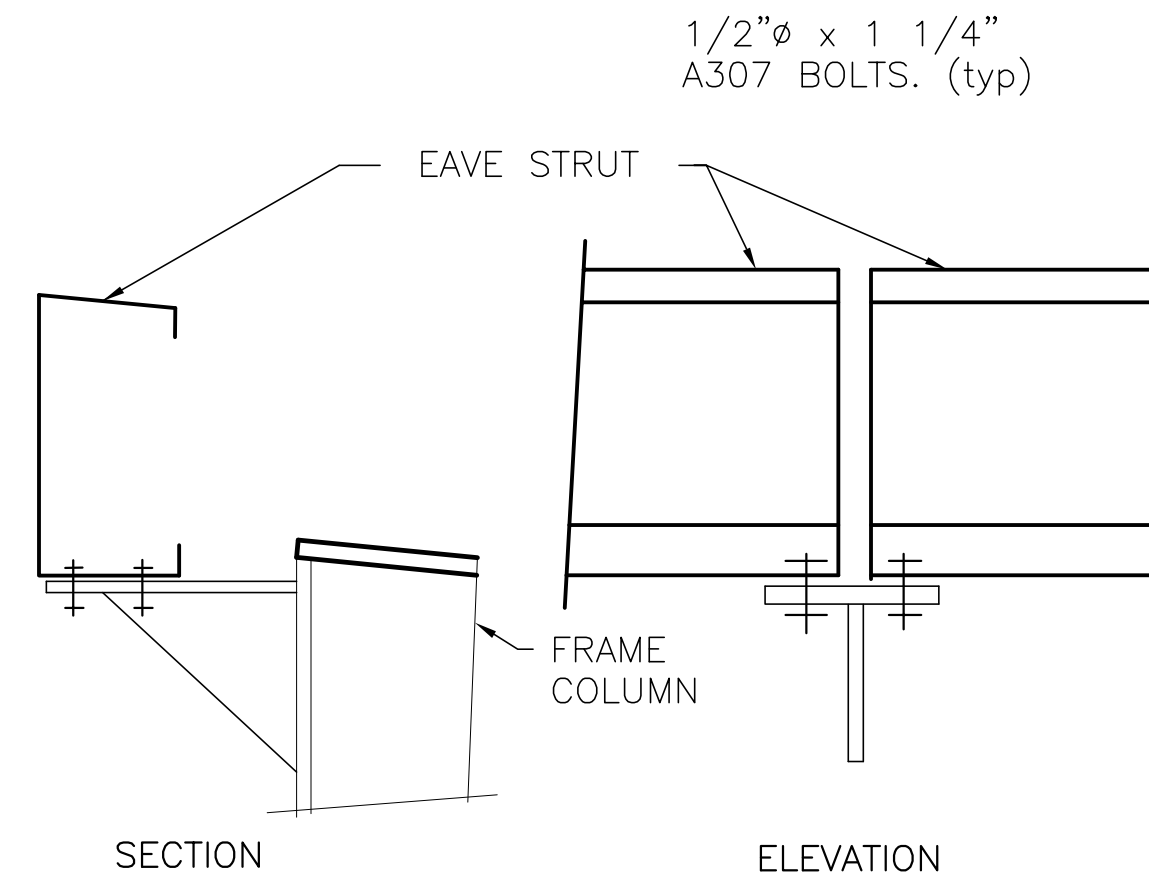
H9 WIND BENT OR WIND COLUMN TO BUILDING COLUMN



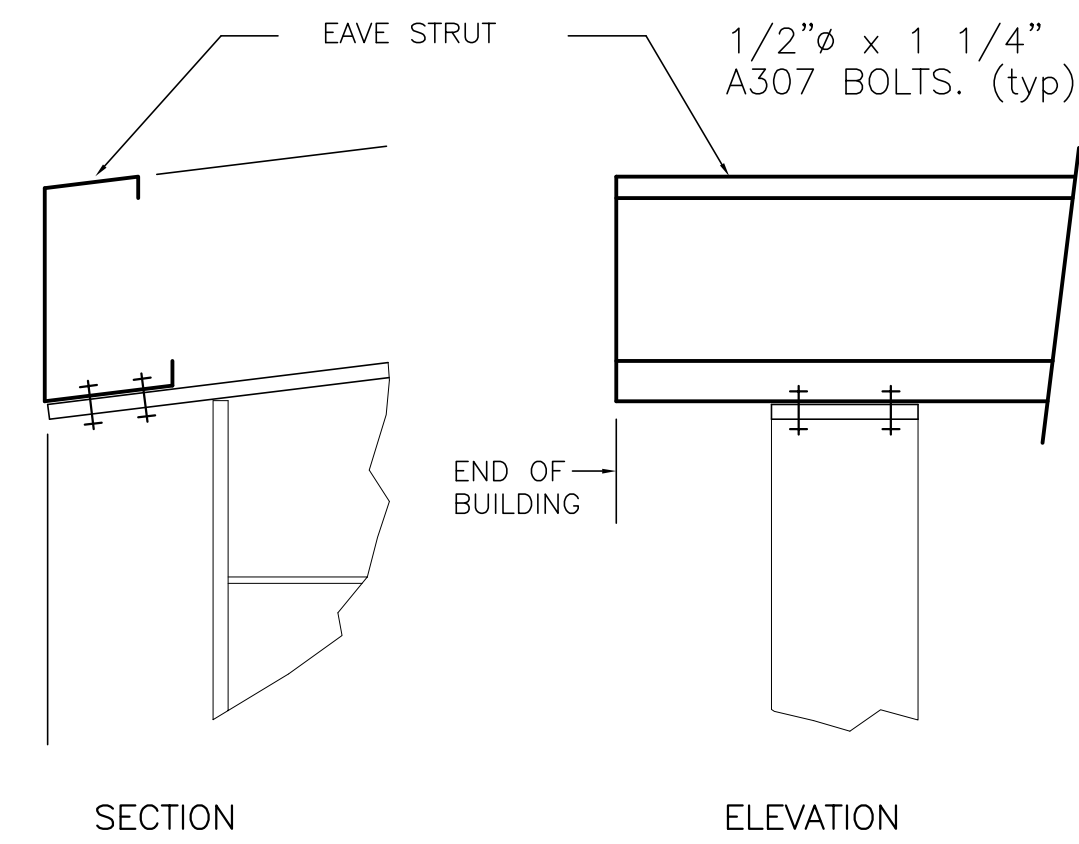
I17 EAVE STRUT TO ENDWALL RAFTER



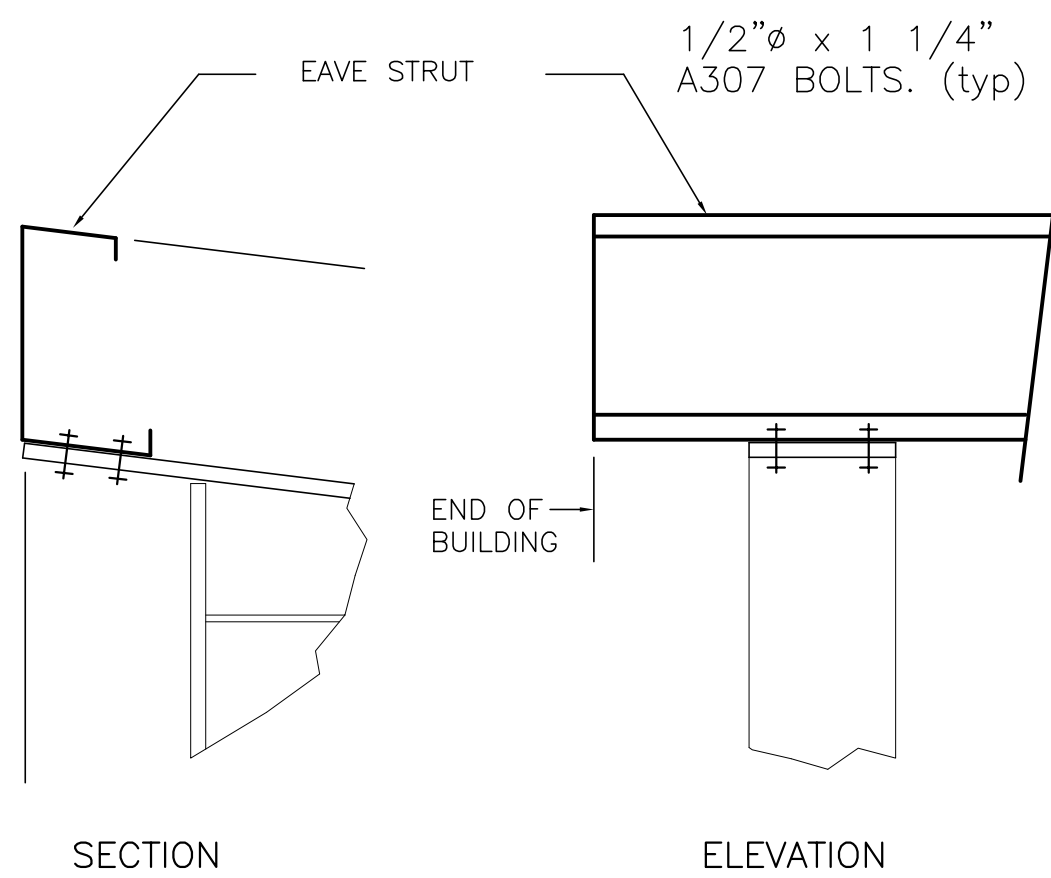
J6 EAVE STRUT TO RIGID FRAME



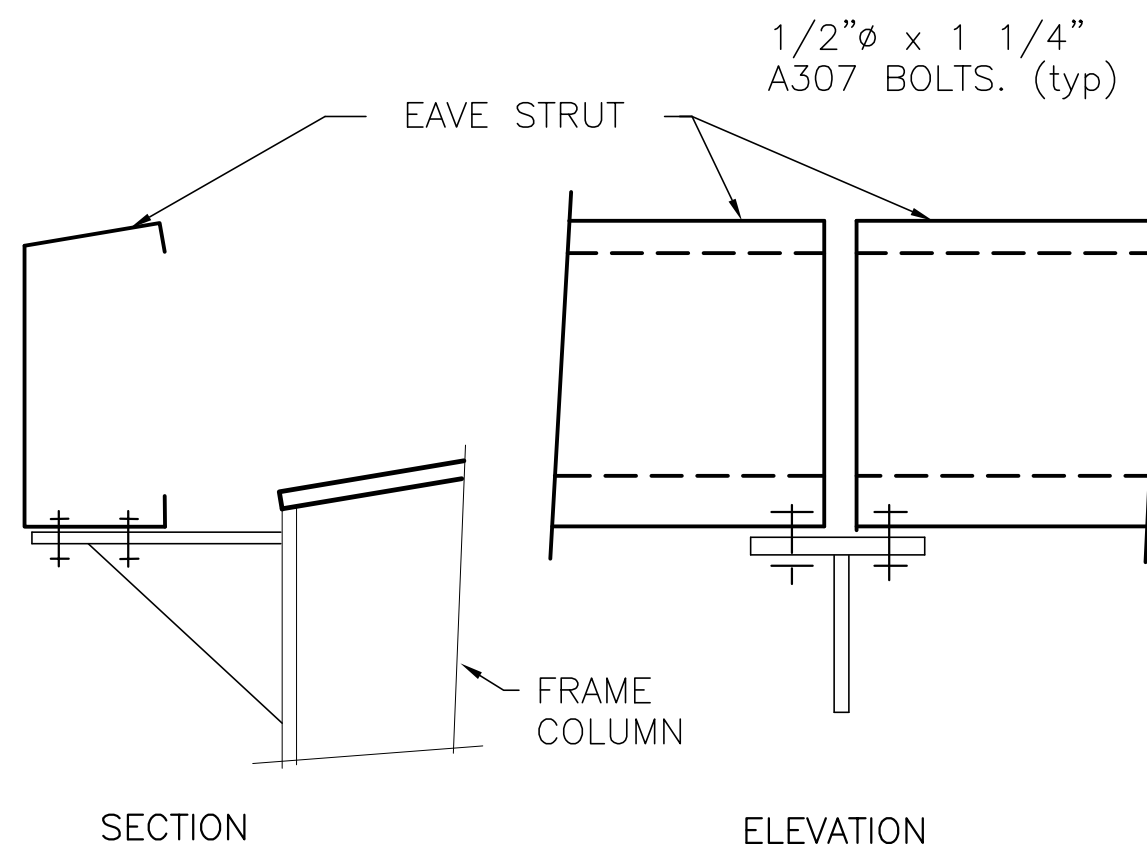
J12 EAVE STRUT TO RIGID FRAME



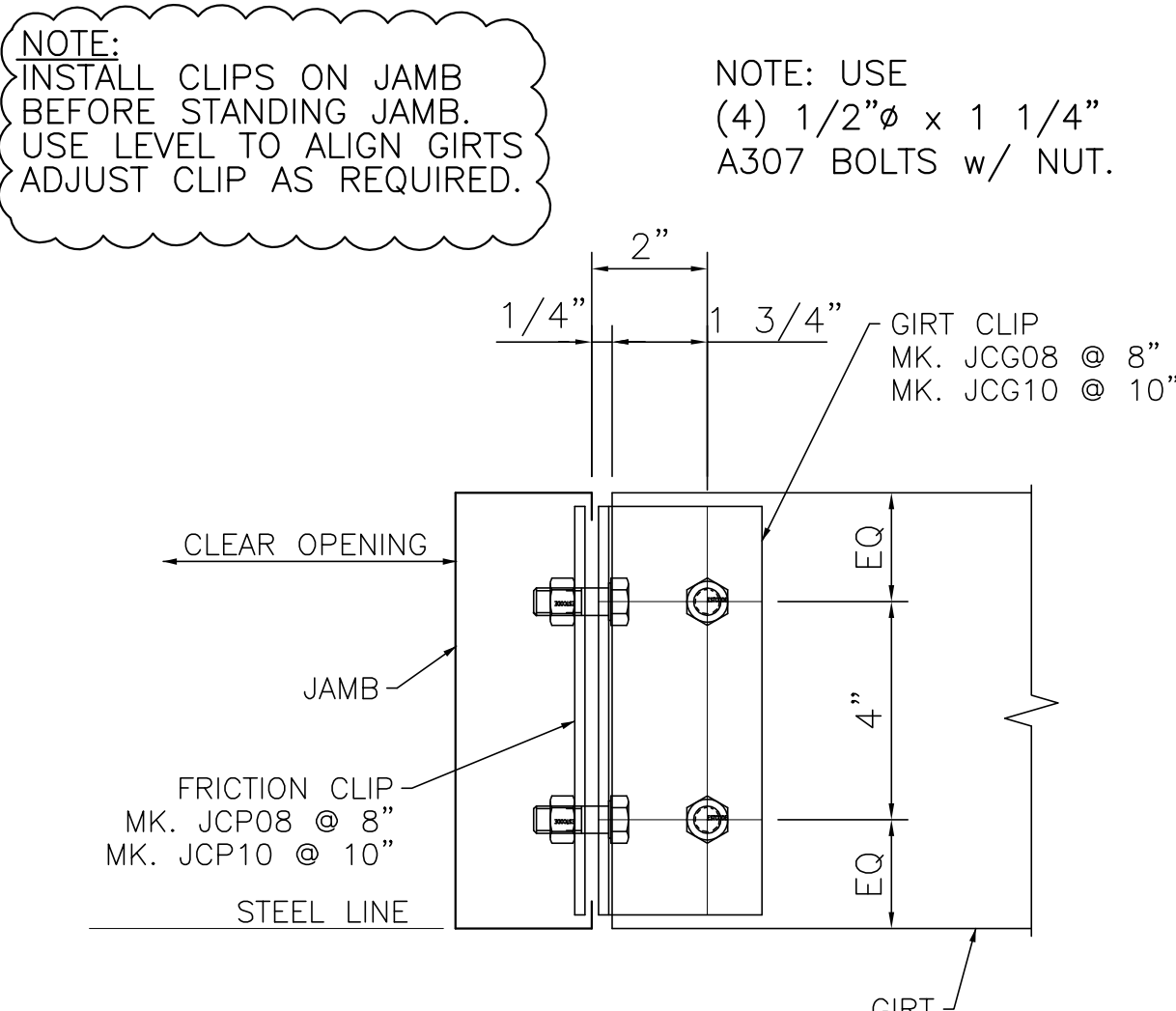
J24 EAVE STRUT TO RIGID FRAME



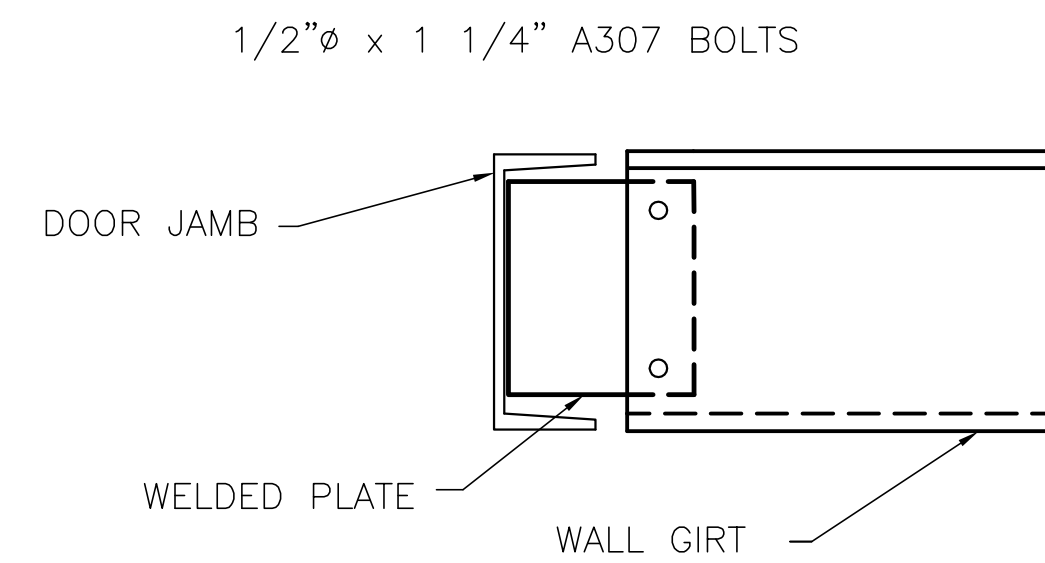
J26 EAVE STRUT TO RIGID FRAME



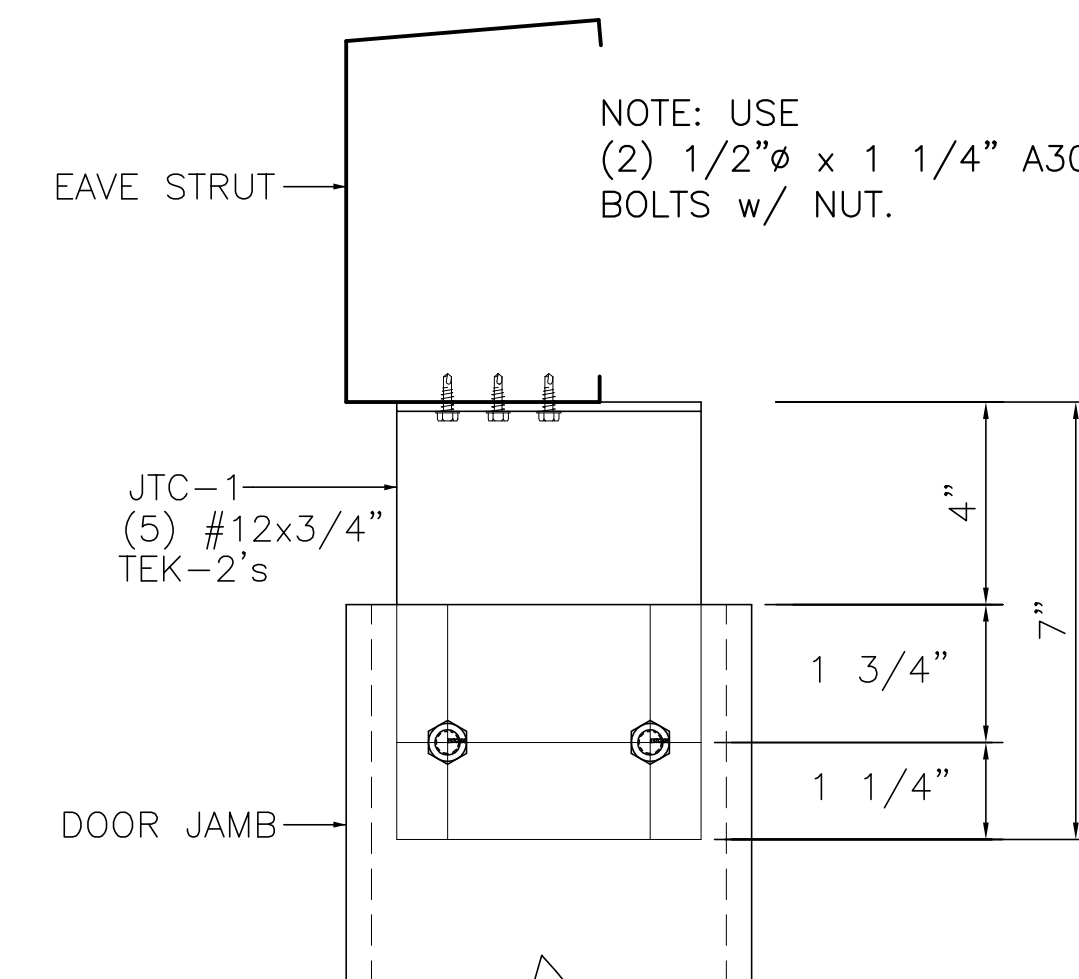
J28 EAVE STRUT TO RIGID FRAME



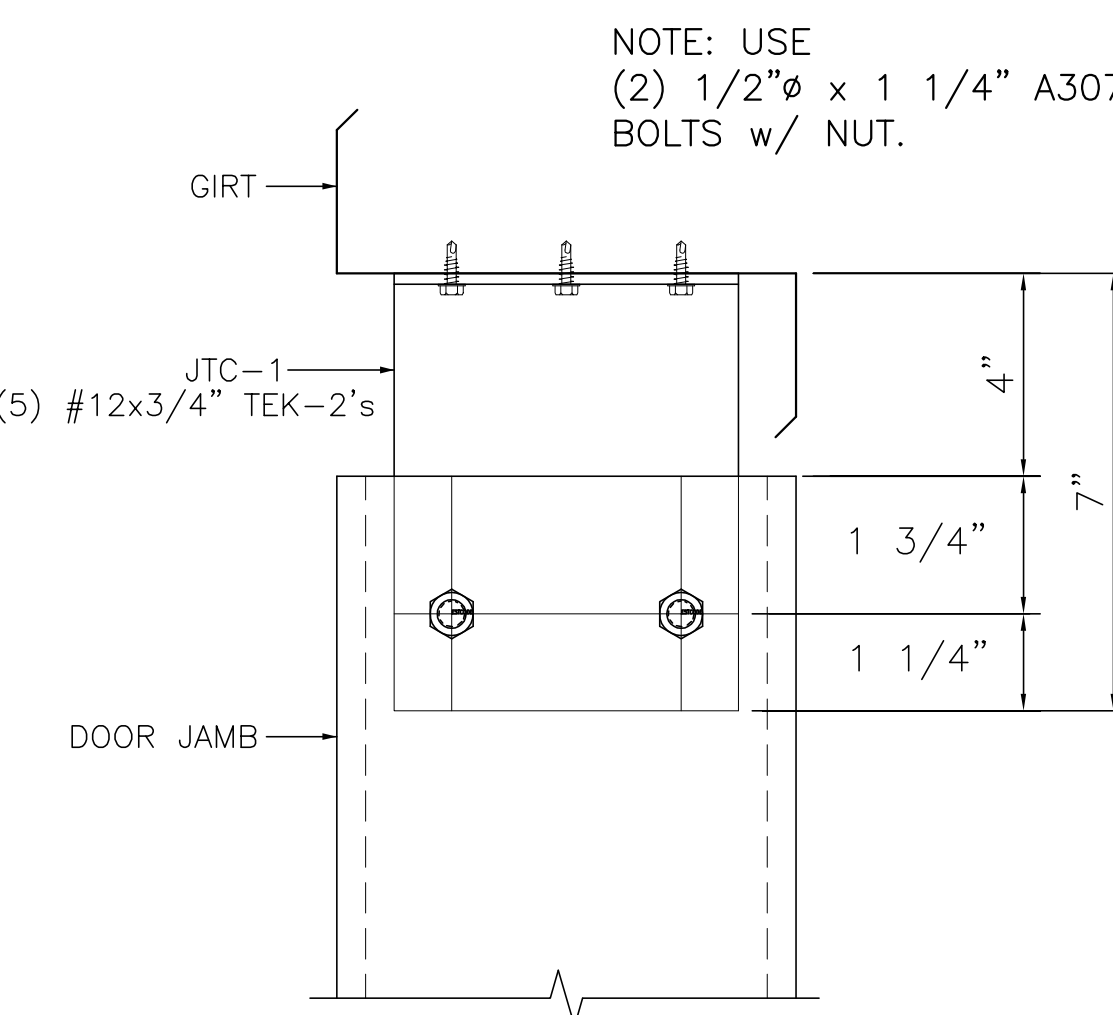
K1 GIRT TO JAMB CONNECTION



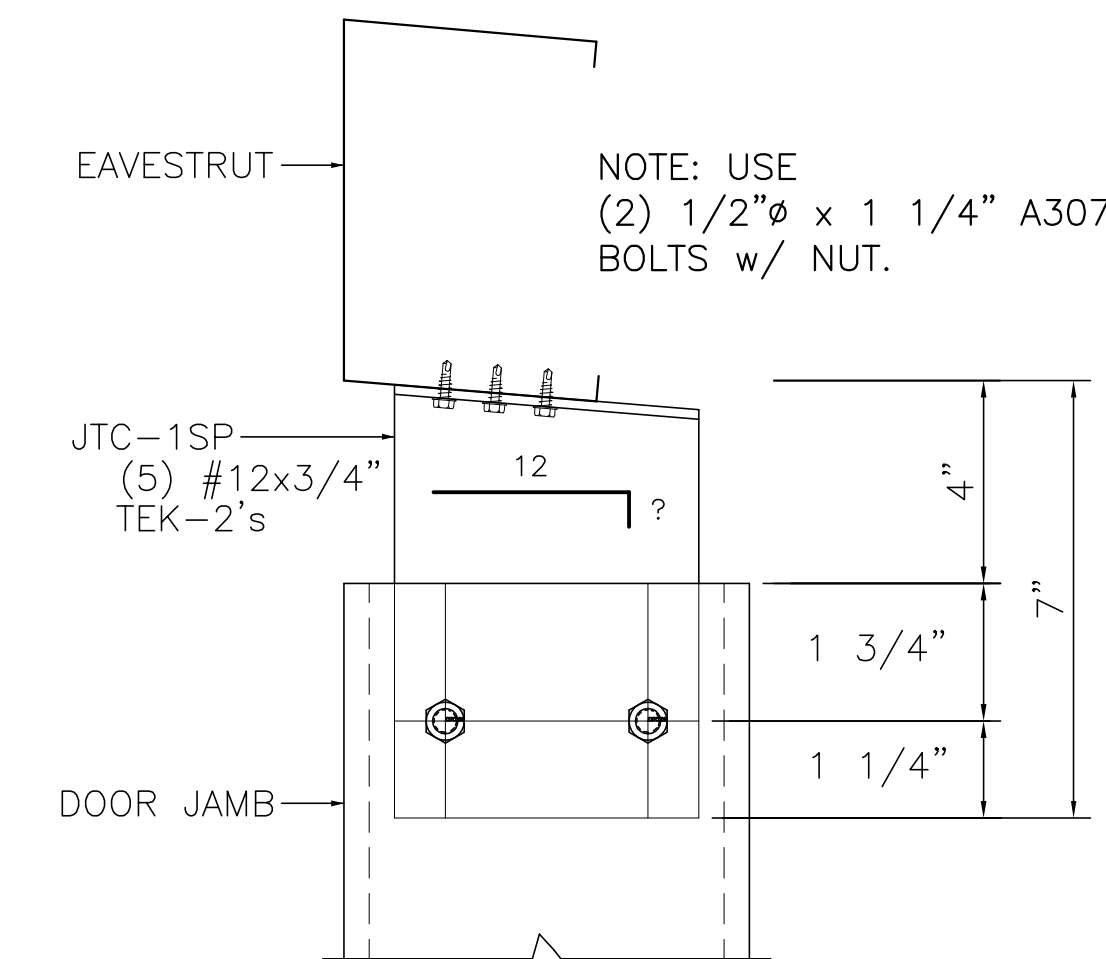
K9 WALL GIRT TO DOOR JAMB



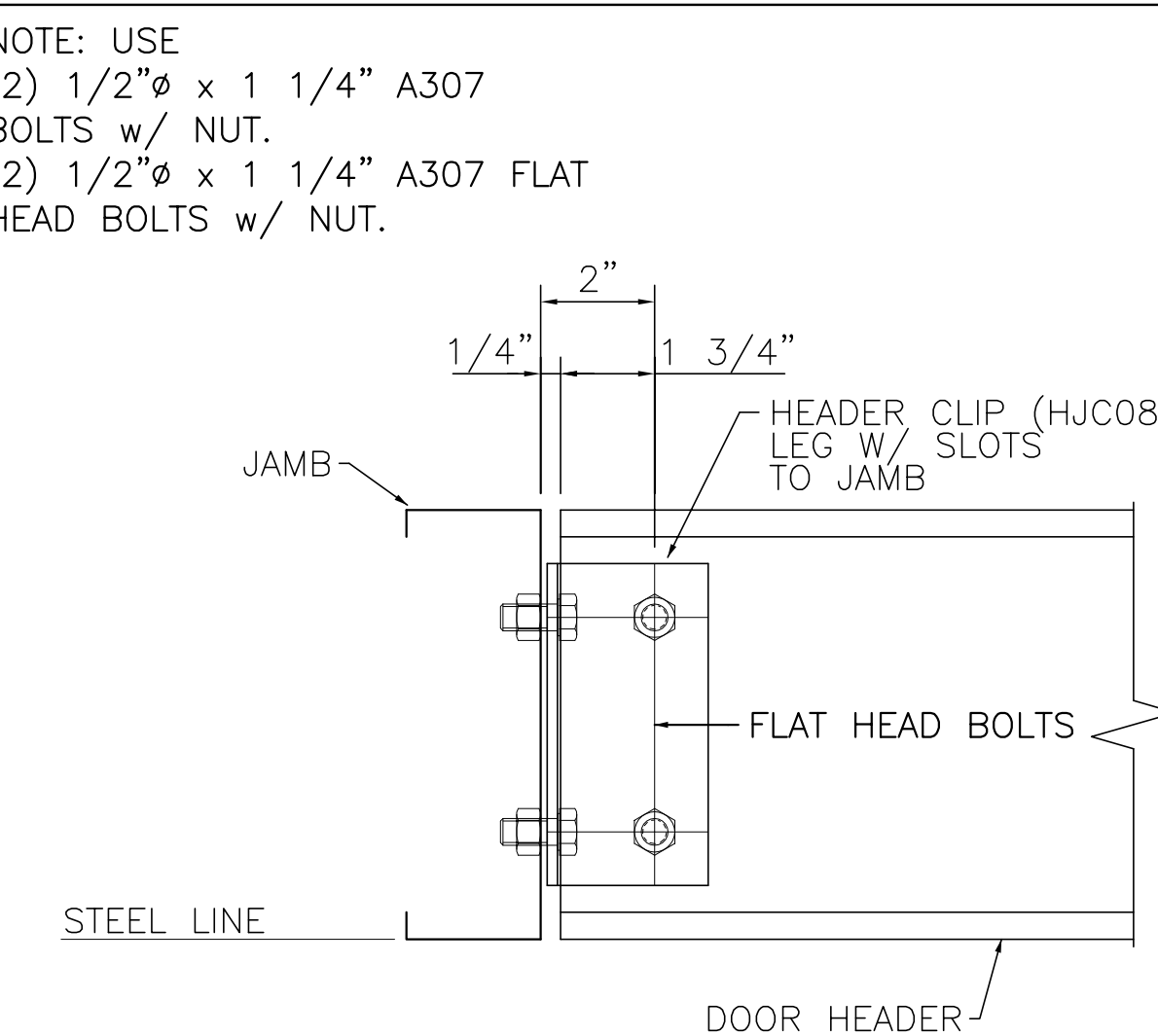
L4 JAMB TO BYPASS EAVE CONNECTION



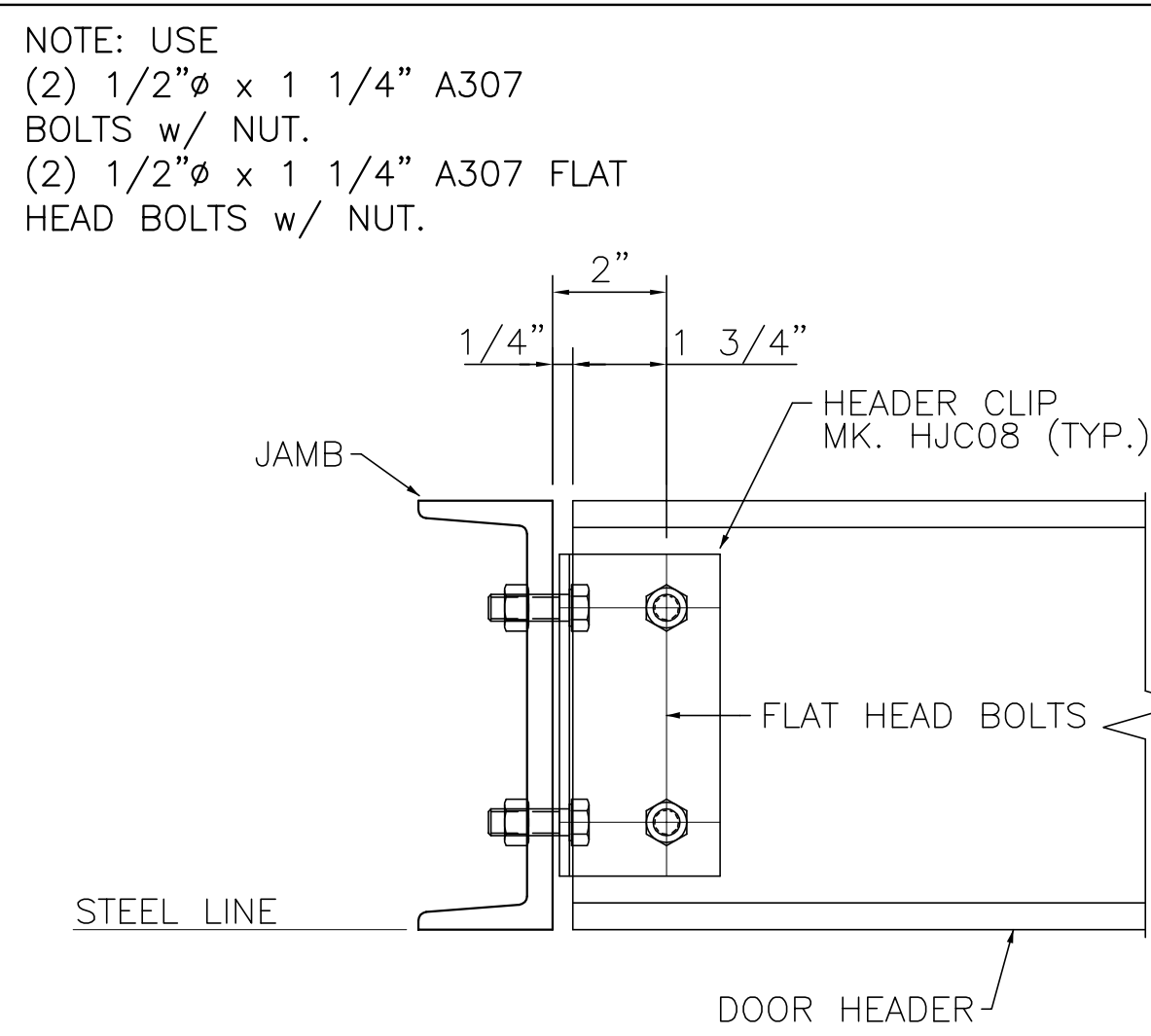
L6 JAMB TO GIRT CONNECTION



L17 JAMB TO FLUSH HIGH EAVE CONN



M1 HEADER TO JAMB CONNECTION



M7 DOOR HEADER TO DOOR JAMB

FOR CONSTRUCTION  
SEPTEMBER 7, 2015

**Peter Wallis and Associates**  
**Structural Engineers**  
FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #26156  
7313 merchant court, sarasota, FL 34240  
tel. 941-907-9192  
peter.wallis.eng@gmail.com

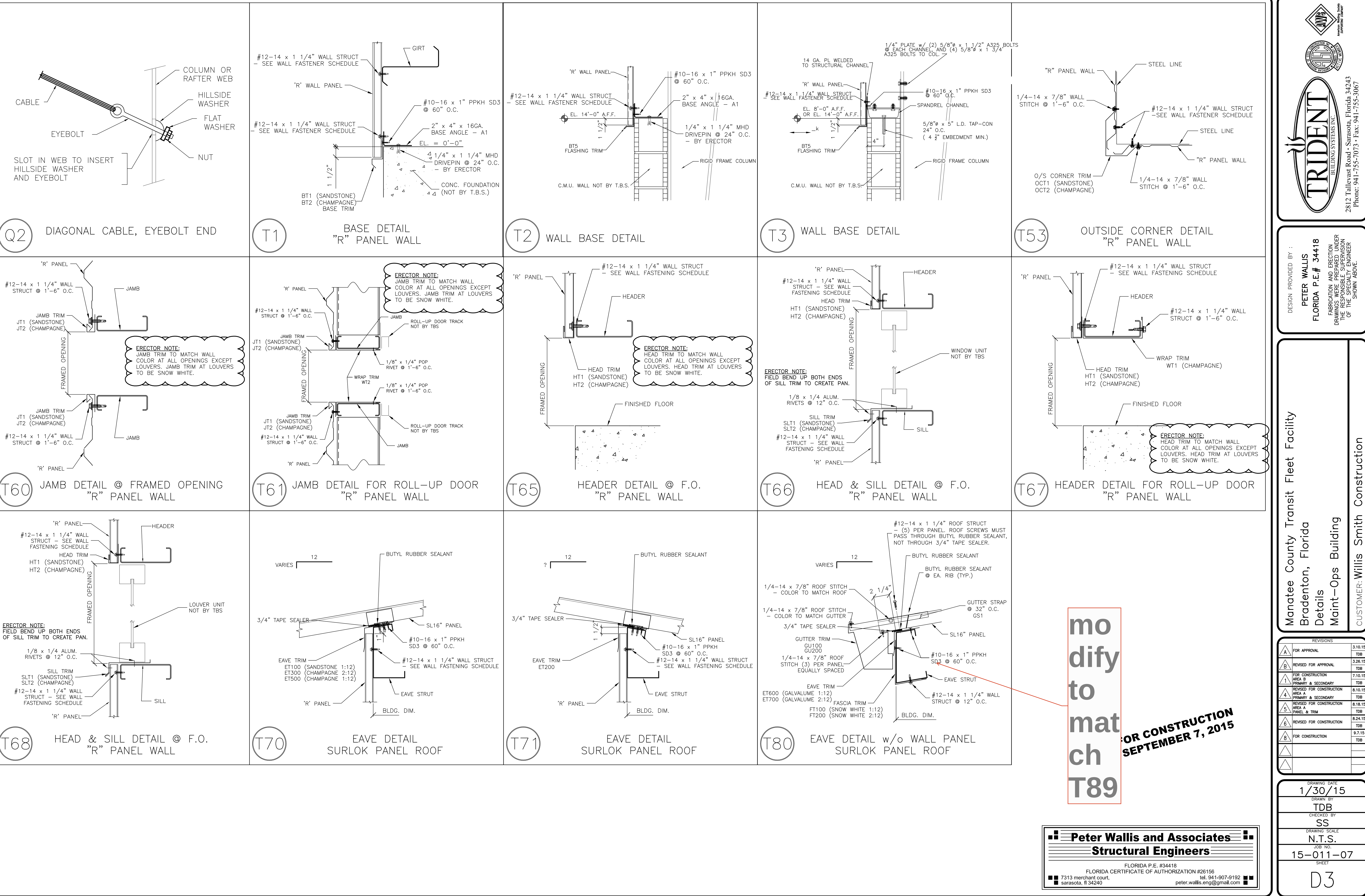
**TRIDENT**  
BUILDINGSYSTEMS INC.  
2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067

DESIGN PROVIDED BY :  
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FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
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SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Details  
Maint—Ops Building  
CUSTOMER: Willis Smith Construction

| REVISIONS                          |                |
|------------------------------------|----------------|
| FOR APPROVAL                       | 3.10.15<br>TDB |
| REVISED FOR APPROVAL               | 3.26.15<br>TDB |
| FOR CONSTRUCTION                   | 7.10.15<br>TDB |
| AREA B<br>PRIMARY & SECONDARY ONLY | 8.10.15<br>TDB |
| REVISED FOR CONSTRUCTION           | 8.24.15<br>TDB |
| AREA A<br>PRIMARY & SECONDARY      | 9.7.15<br>TDB  |
| FOR CONSTRUCTION                   |                |
|                                    |                |
|                                    |                |
|                                    |                |
|                                    |                |

DRAWING DATE  
**1/30/15**  
DRAWN BY  
**TDB**  
CHECKED BY  
**SS**  
DRAWING SCALE  
**N.T.S.**  
JOB NO.  
**15-011-07**  
SHEET  
**D2**



**TRIDENT**  
BUILDINGSYSTEMS INC.

2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067

DESIGN PROVIDED BY :

**PETER WALLIS**  
FLORIDA P.E. # 34418

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Manatee County Transit Fleet Facility  
Bradenton, Florida  
Details  
Maint—Ops Building

CUSTOMER: Willis Smith Construction

| REVISIONS |                               |         |
|-----------|-------------------------------|---------|
|           | FOR APPROVAL                  | 3.10.15 |
|           | REVISED FOR APPROVAL          | 3.26.15 |
|           | AREA B<br>PRIMARY & SECONDARY | TDB     |
|           | FOR CONSTRUCTION              | 7.10.15 |
|           | AREA A<br>PRIMARY & SECONDARY | TDB     |
|           | REVISED FOR CONSTRUCTION      | 8.10.15 |
|           | AREA A<br>PRIMARY & SECONDARY | TDB     |
|           | REVISED FOR CONSTRUCTION      | 8.18.15 |
|           | AREA A<br>PANEL & TRIM        | TDB     |
|           | REVISED FOR CONSTRUCTION      | 8.24.15 |
|           | FOR CONSTRUCTION              | 9.7.15  |
|           |                               | TDB     |
|           |                               |         |

DRAWING DATE  
**1/30/15**

DRAWN BY  
**TDB**

CHECKED BY  
**SS**

DRAWING SCALE  
**N.T.S.**

JOB NO.  
**15-011-07**

SHEET  
**D3**

**Peter Wallis and Associates**  
**Structural Engineers**

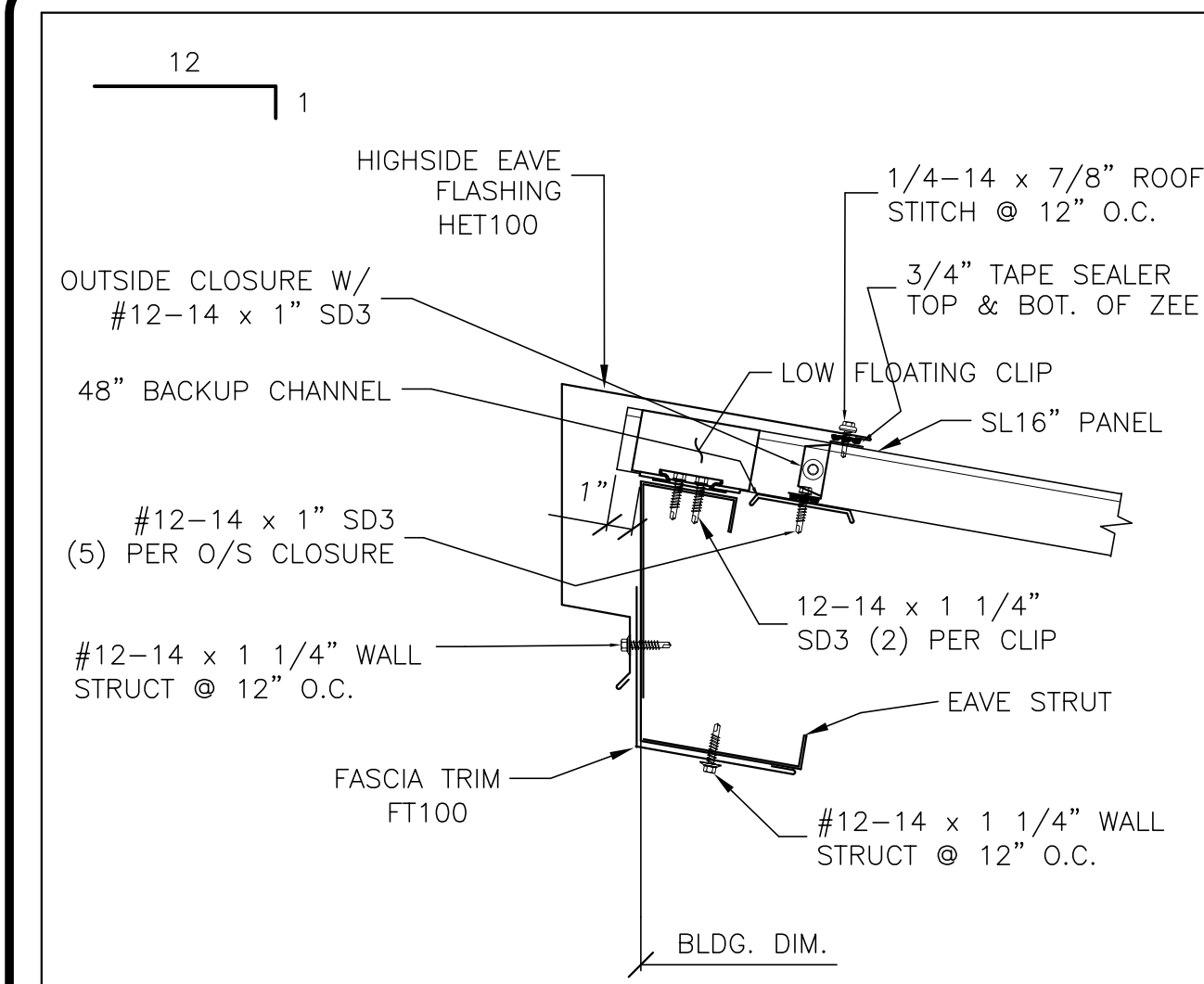
FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #26156

7313 merchant court, sarasota, FL 34240

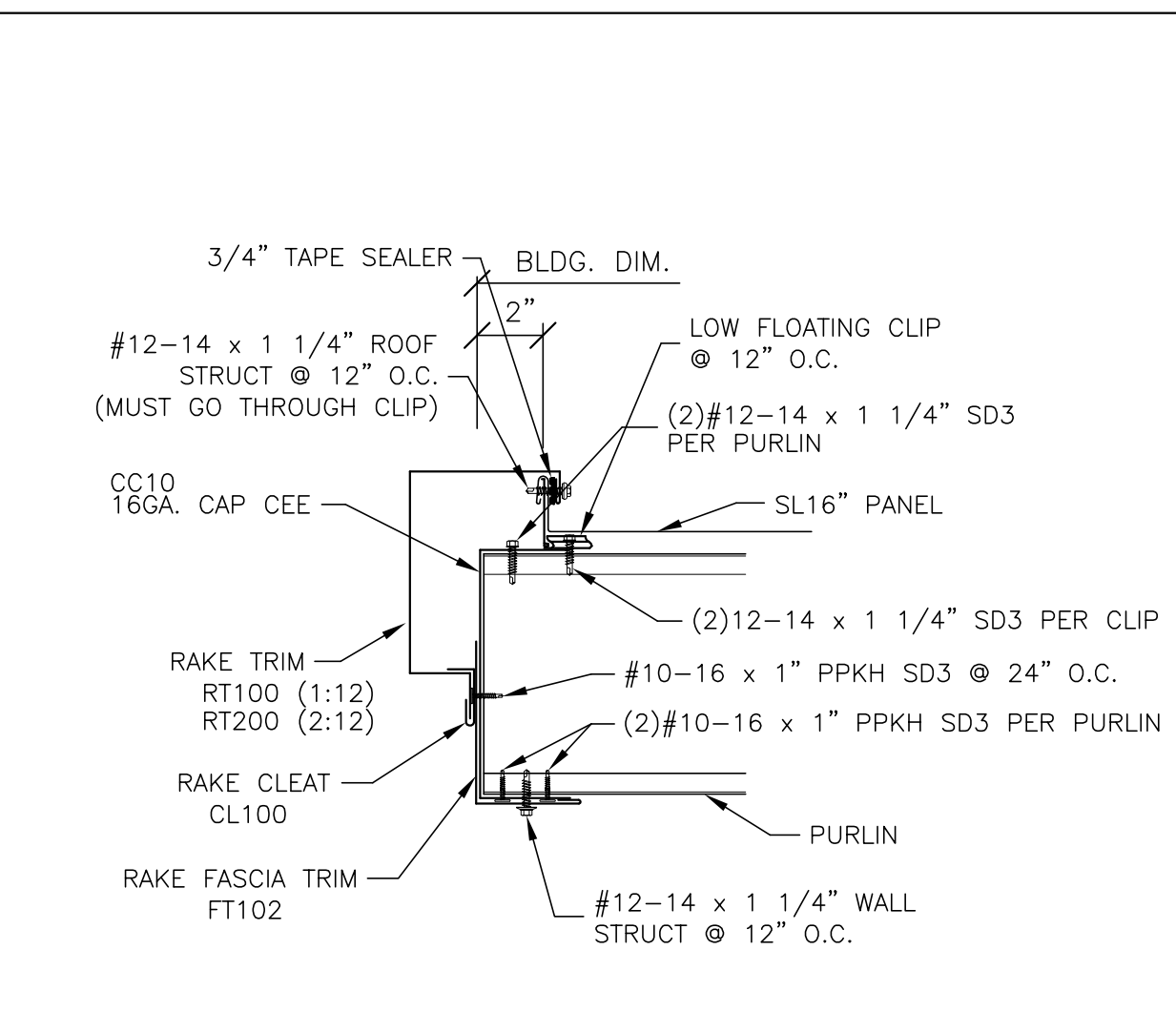
tel. 941-907-9192  
peter.wallis.eng@gmail.com

modify to match T89

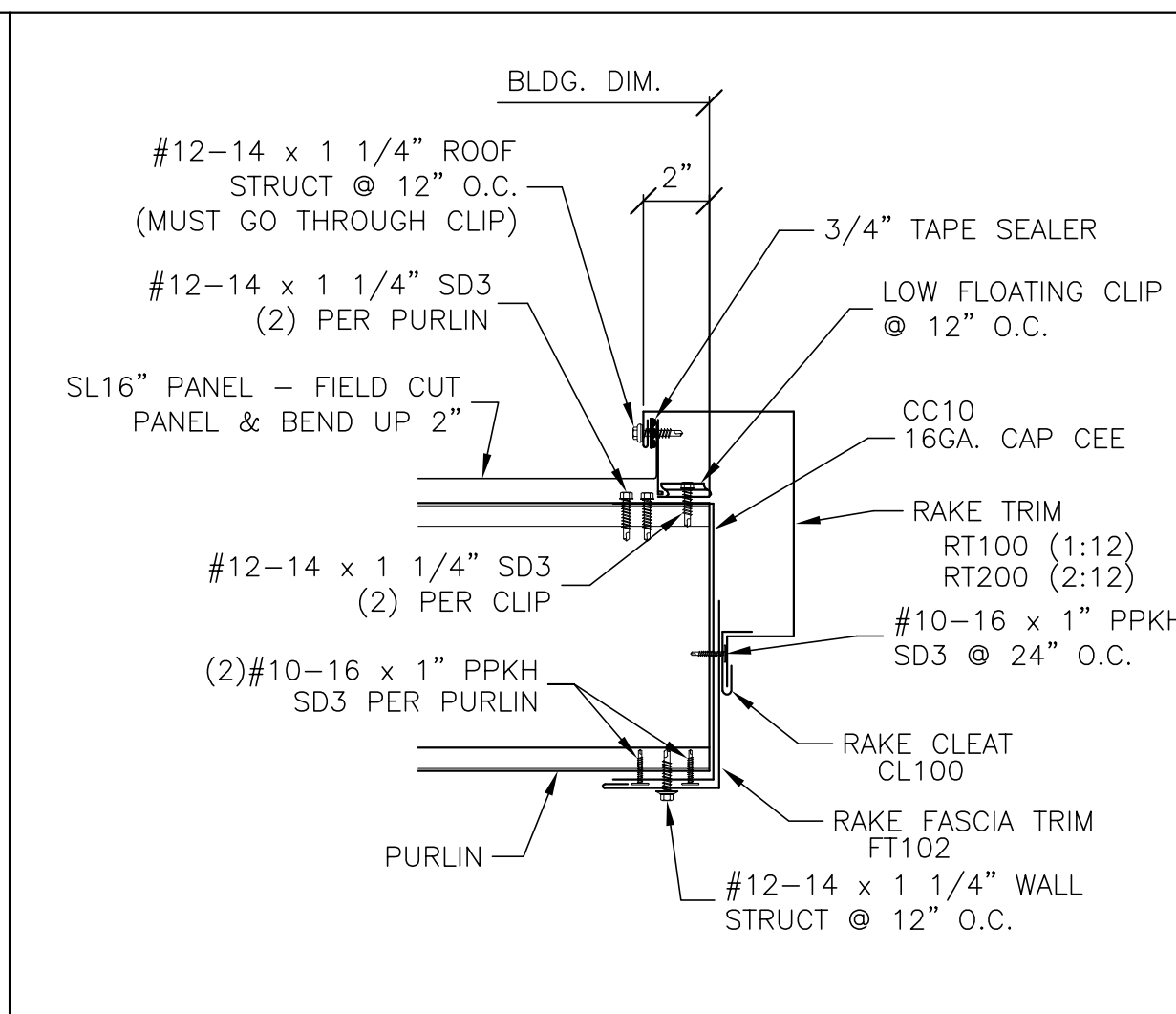
FOR CONSTRUCTION  
SEPTEMBER 7, 2015



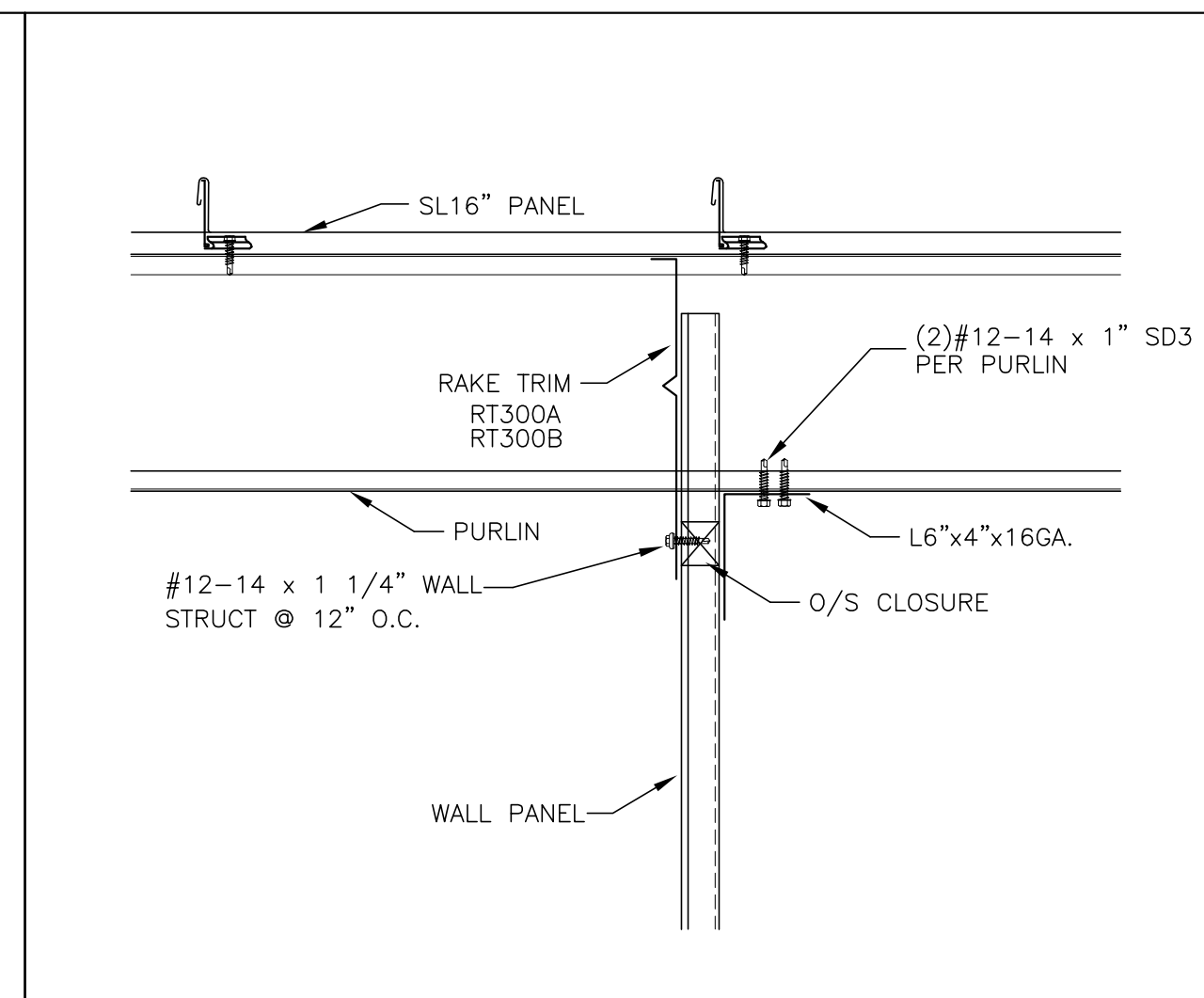
**T81** HIGH EAVE DETAIL w/o WALL PANEL SURLOK PANEL ROOF



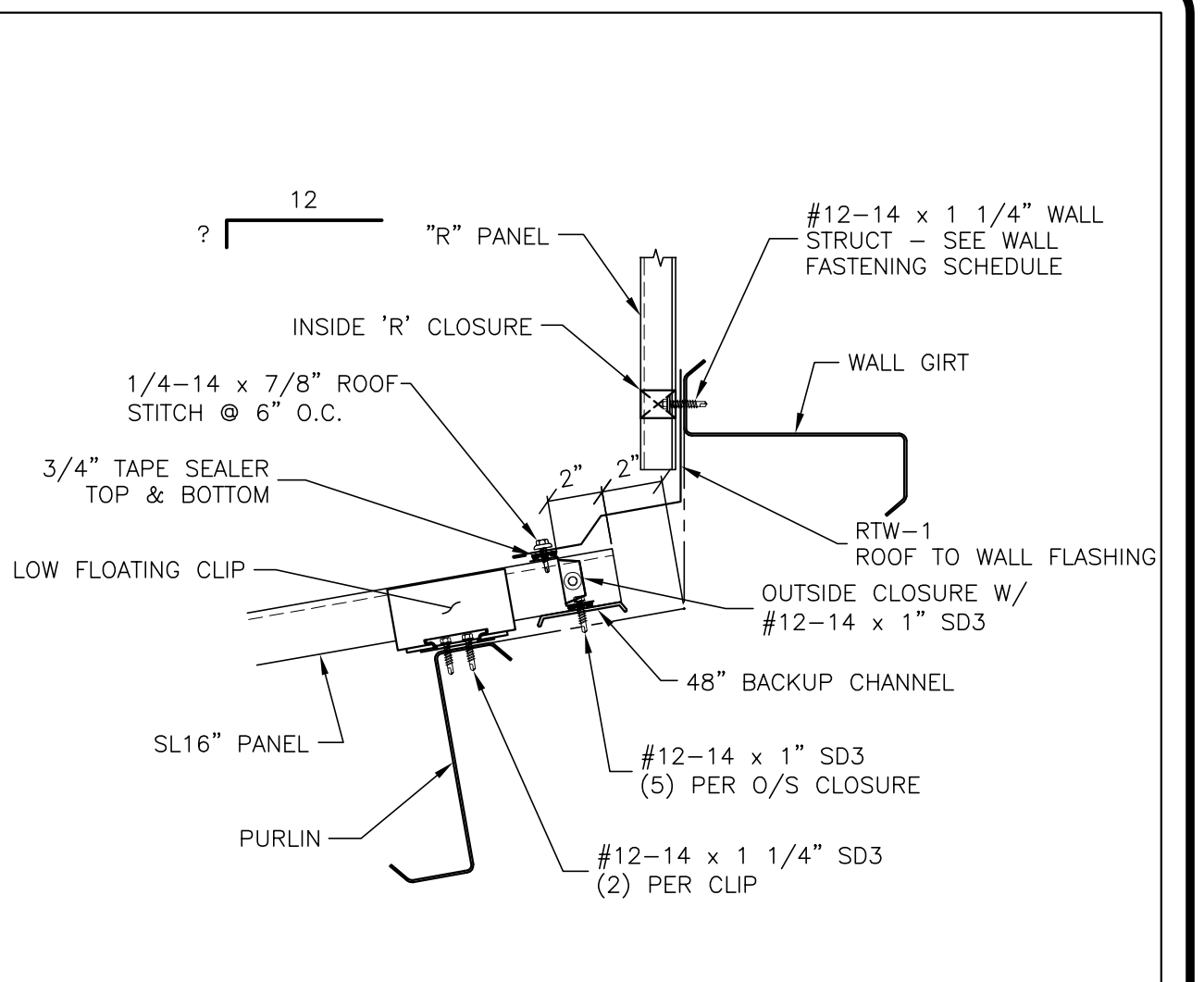
**T82** RAKE DETAIL w/o WALL PANEL-START SURLOK PANEL ROOF



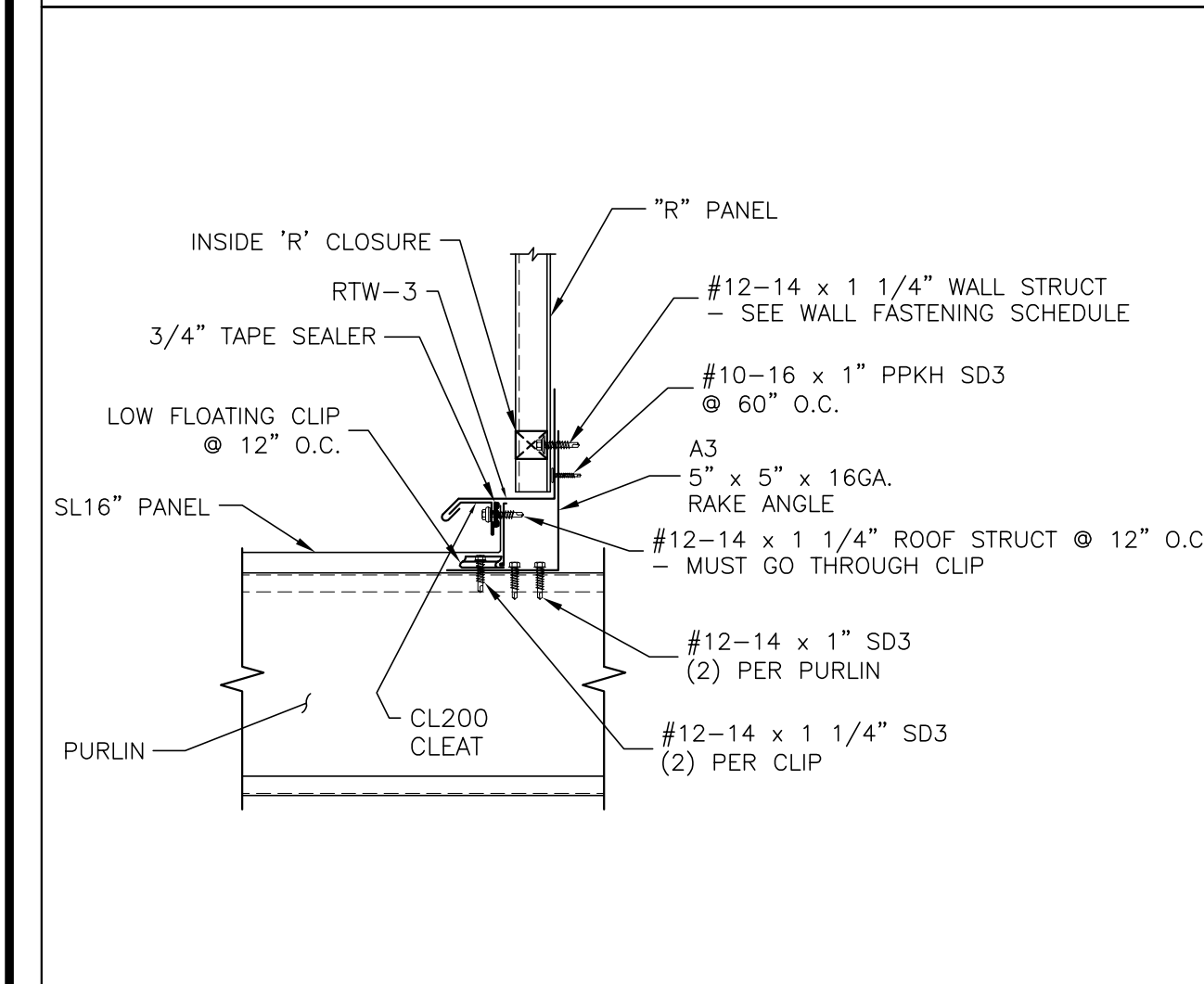
**T83** RAKE DETAIL w/o WALL PANEL-END SURLOK PANEL ROOF



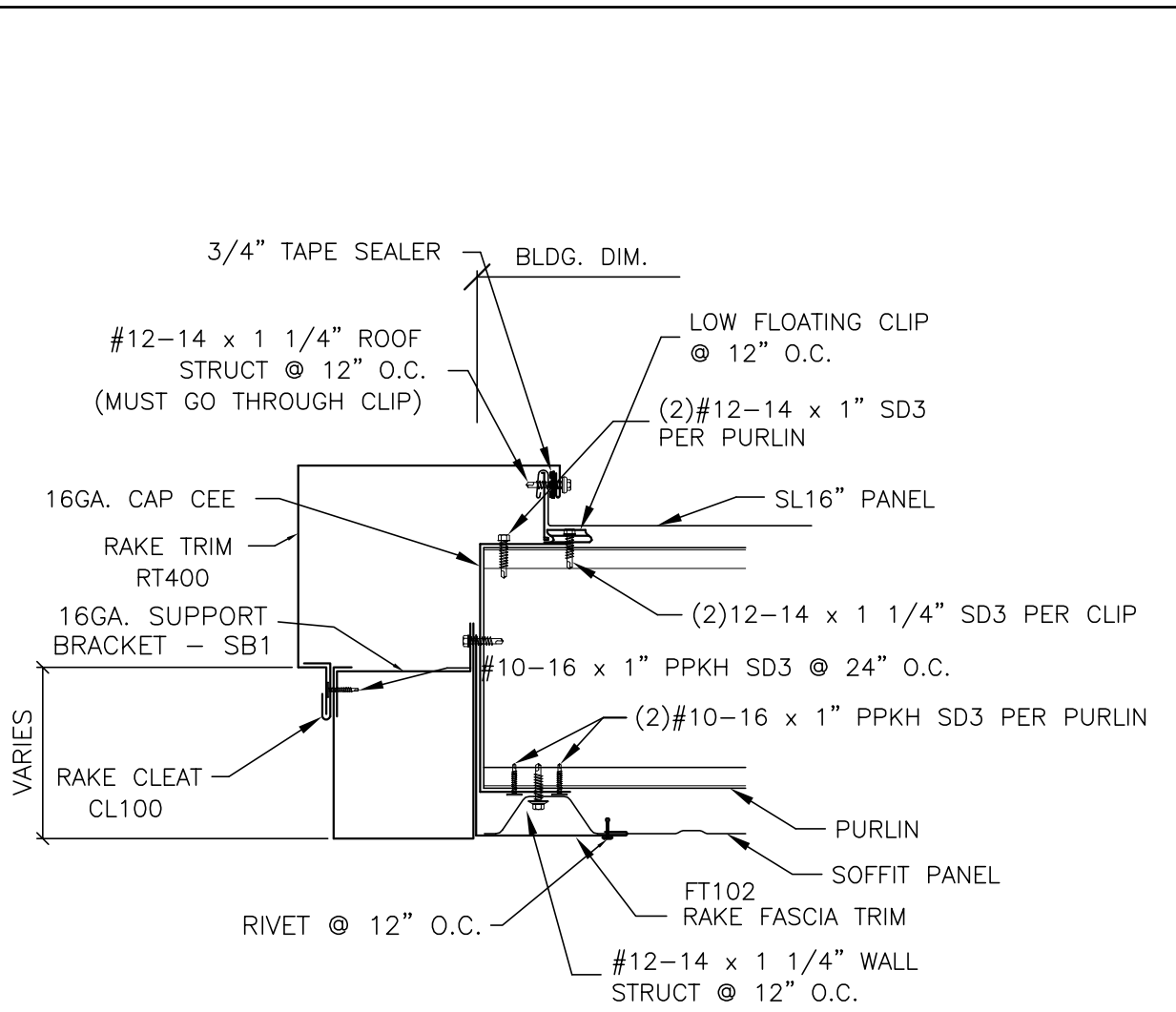
**T84** RAKE DETAIL @ OVERHANG SURLOK PANEL ROOF



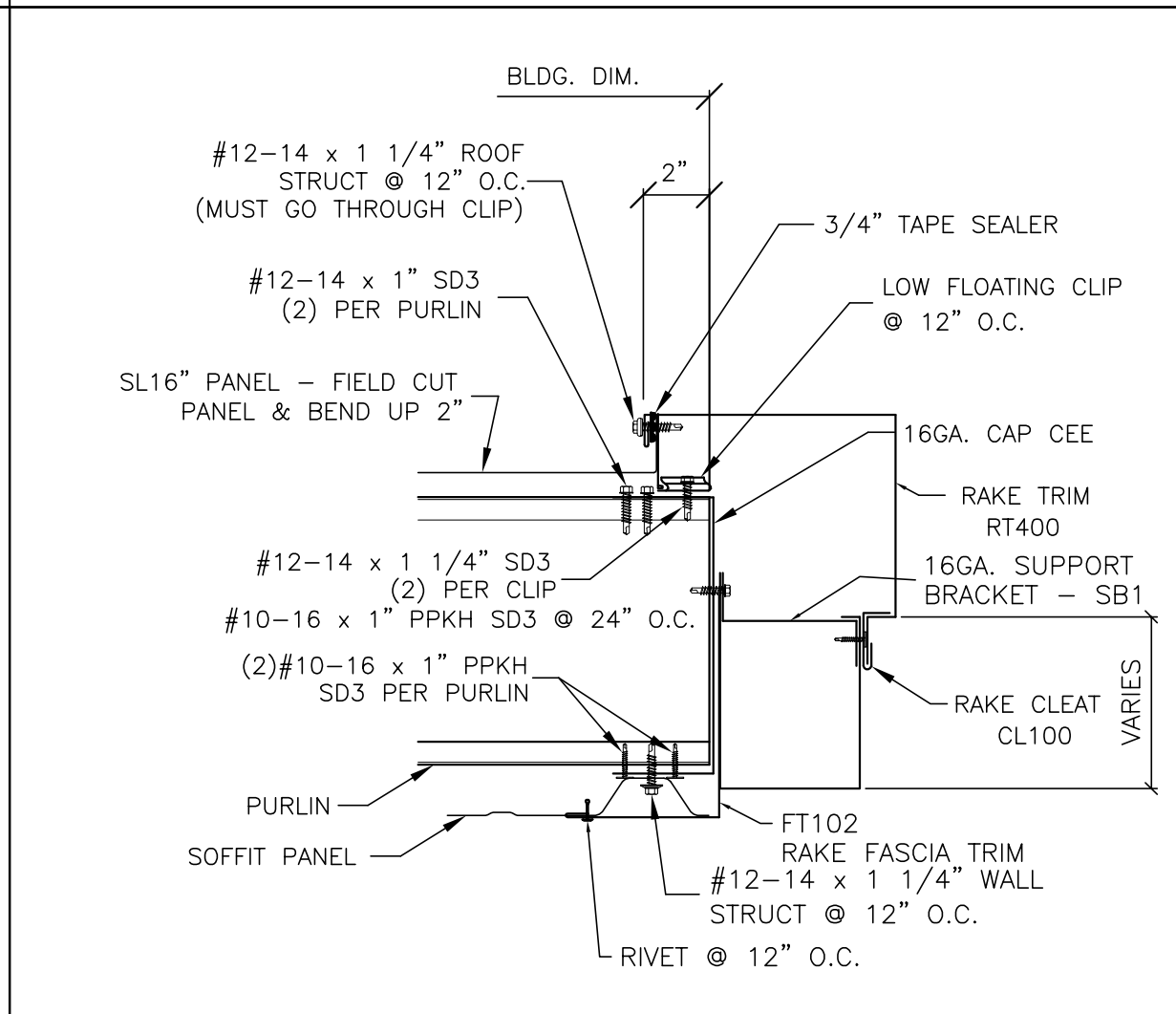
**T85** ROOF TO WALL TRANSITION SURLOK PANEL ROOF



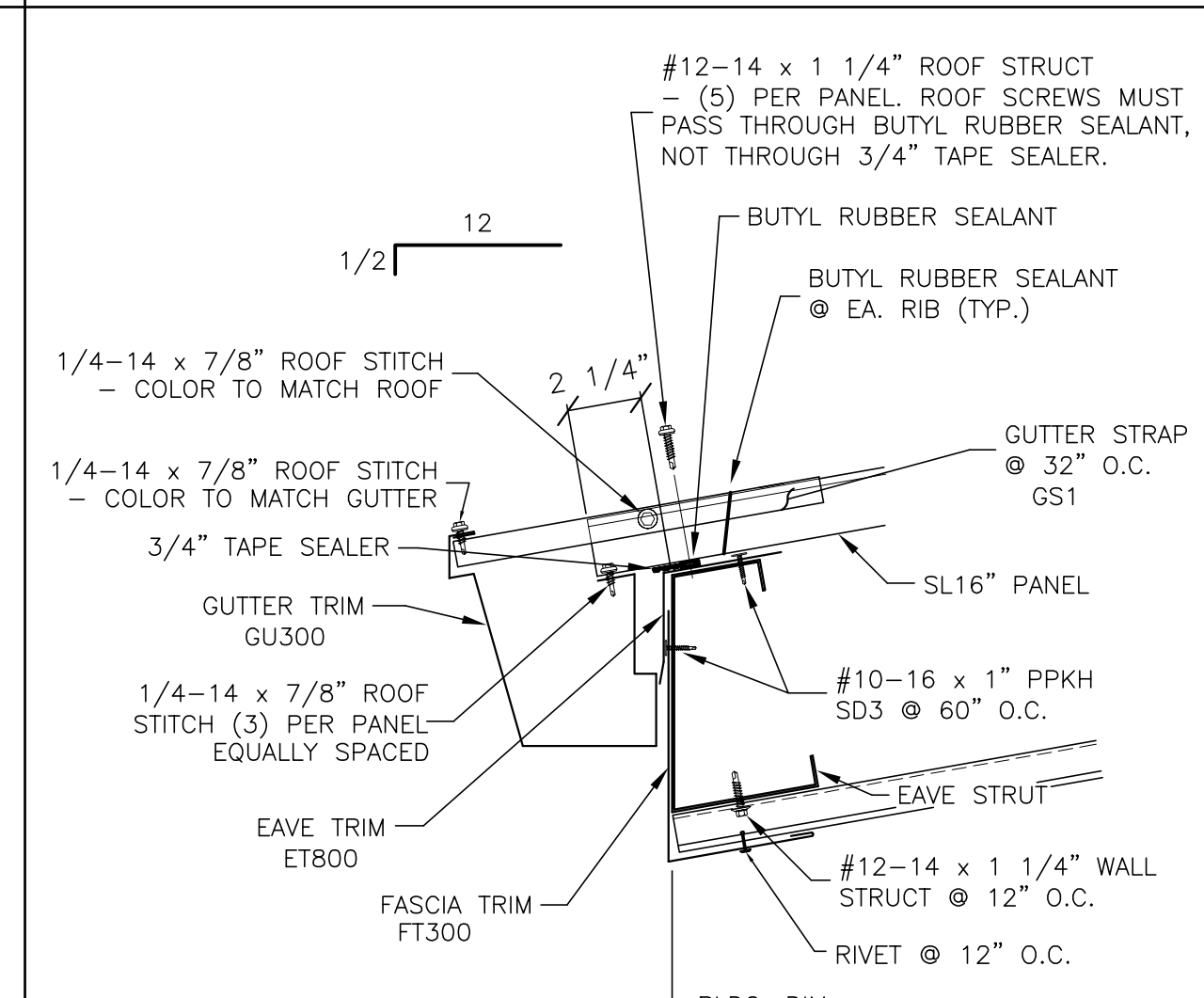
**T86** ROOF TO WALL TRANSITION SURLOK PANEL ROOF



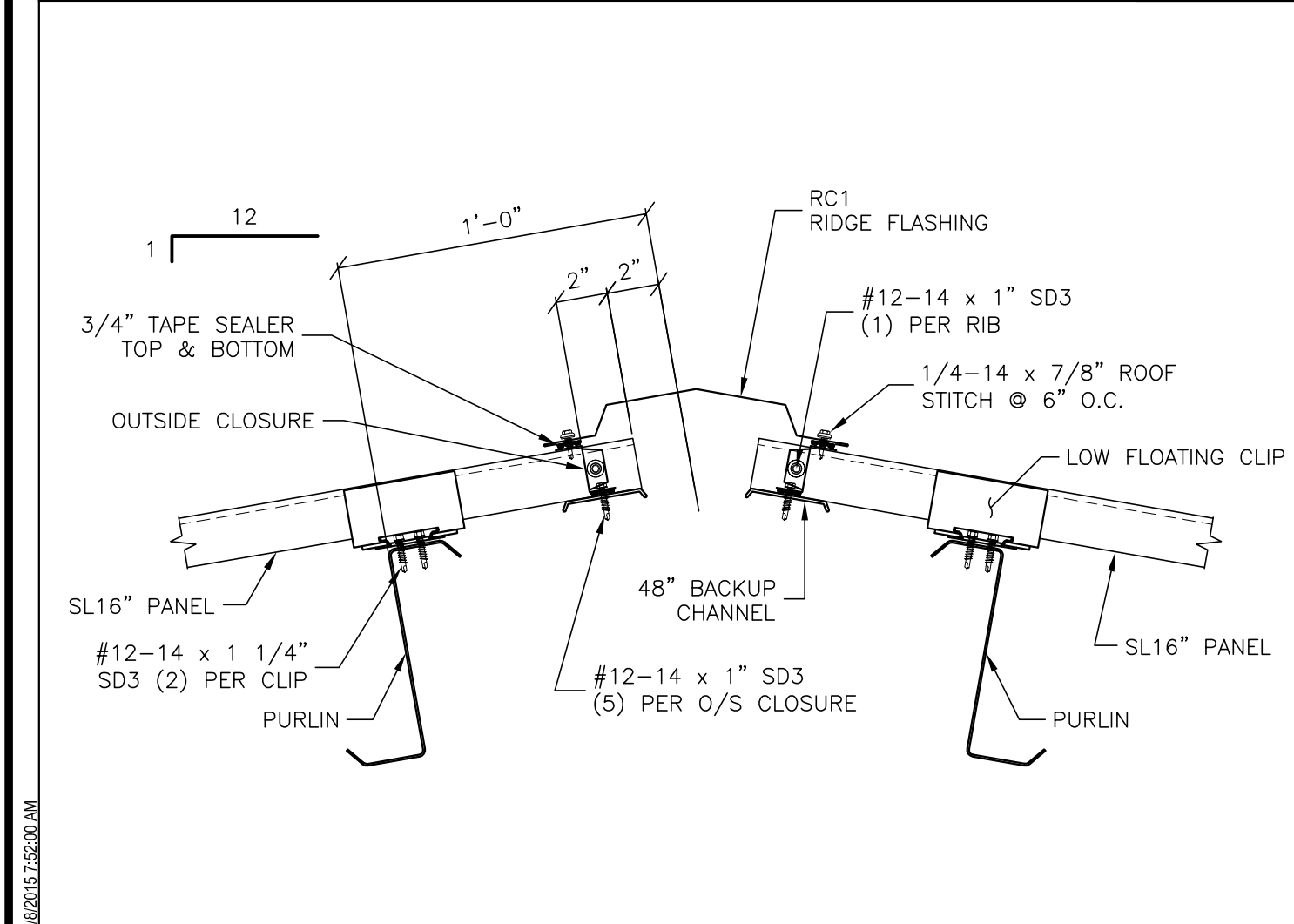
**T87** RAKE GUTTER DETAIL SURLOK PANEL ROOF



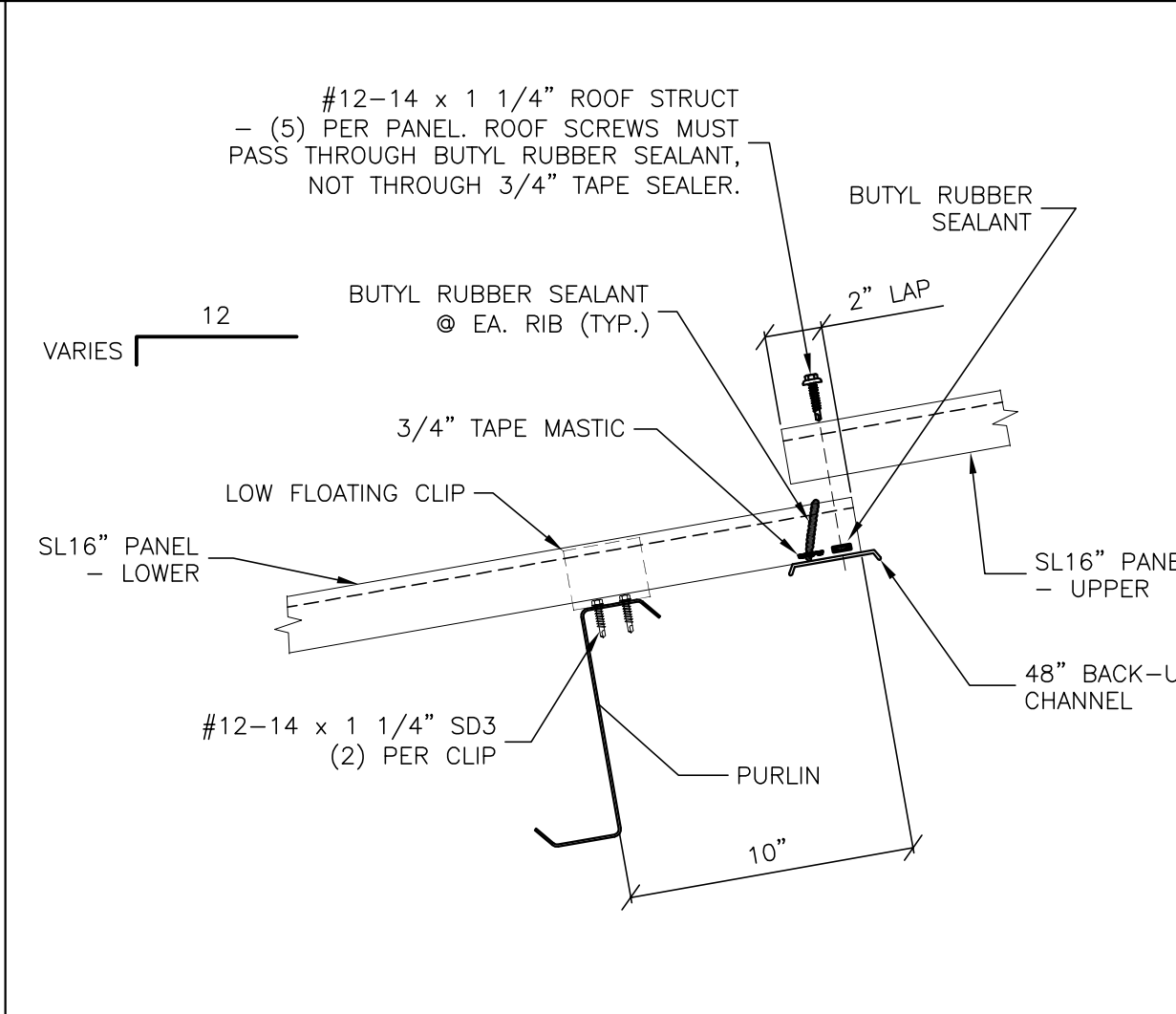
**T88** RAKE GUTTER DETAIL SURLOK PANEL ROOF



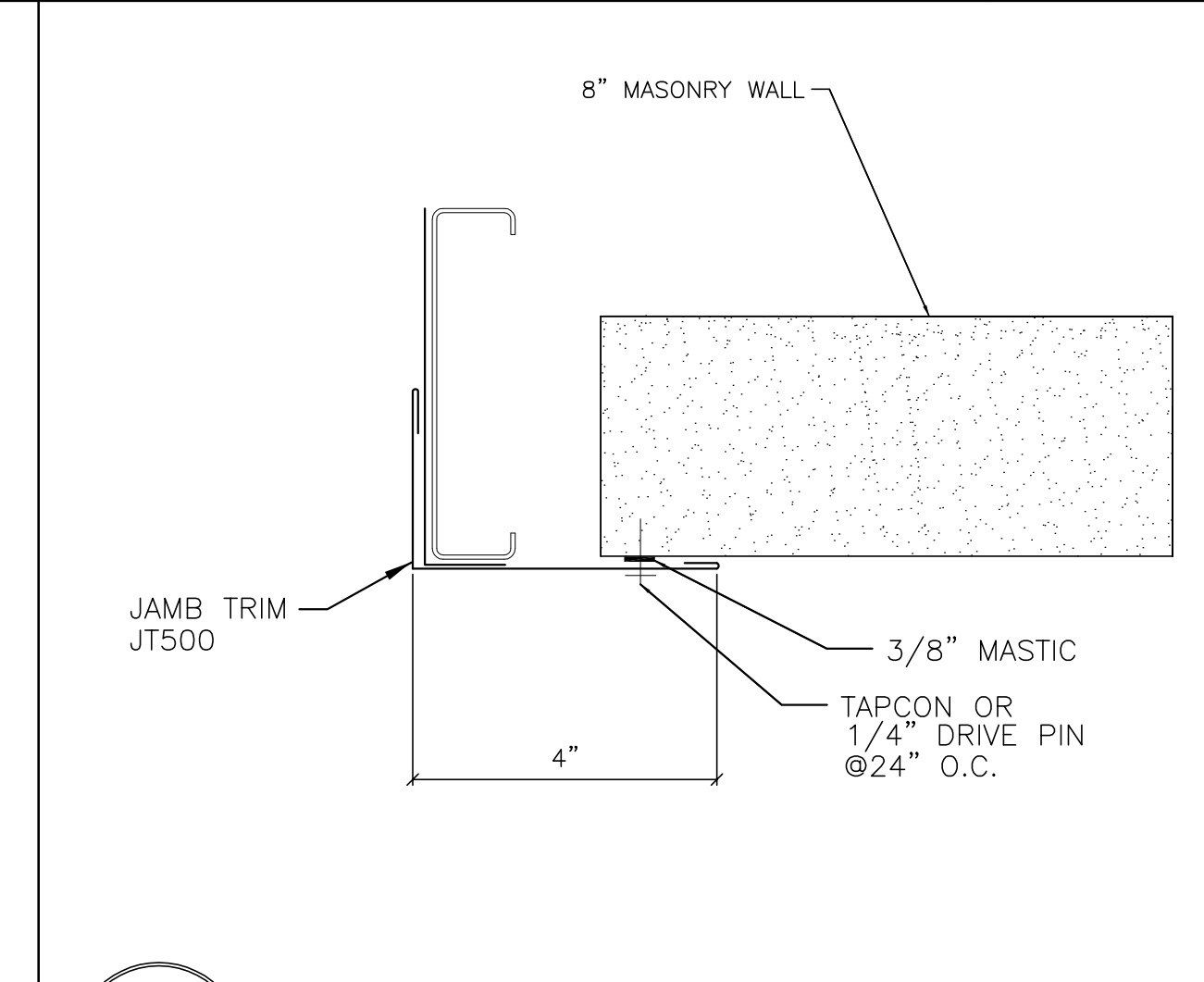
**T89** EAVE DETAIL w/o WALL PANEL SURLOK PANEL ROOF



**T90** RIDGE DETAIL SURLOK PANEL ROOF



**T91** PANEL LAP SURLOK PANEL ROOF



**T92** JAMB DETAIL @ MASONRY WALL

**FOR CONSTRUCTION  
SEPTEMBER 7, 2015**

**Peter Wallis and Associates**  
**Structural Engineers**

FLORIDA P.E. #34418  
FLORIDA CERTIFICATE OF AUTHORIZATION #26156  
7313 merchant court, sarasota, fl 34240  
tel. 941-907-9192  
peter.wallis.eng@gmail.com

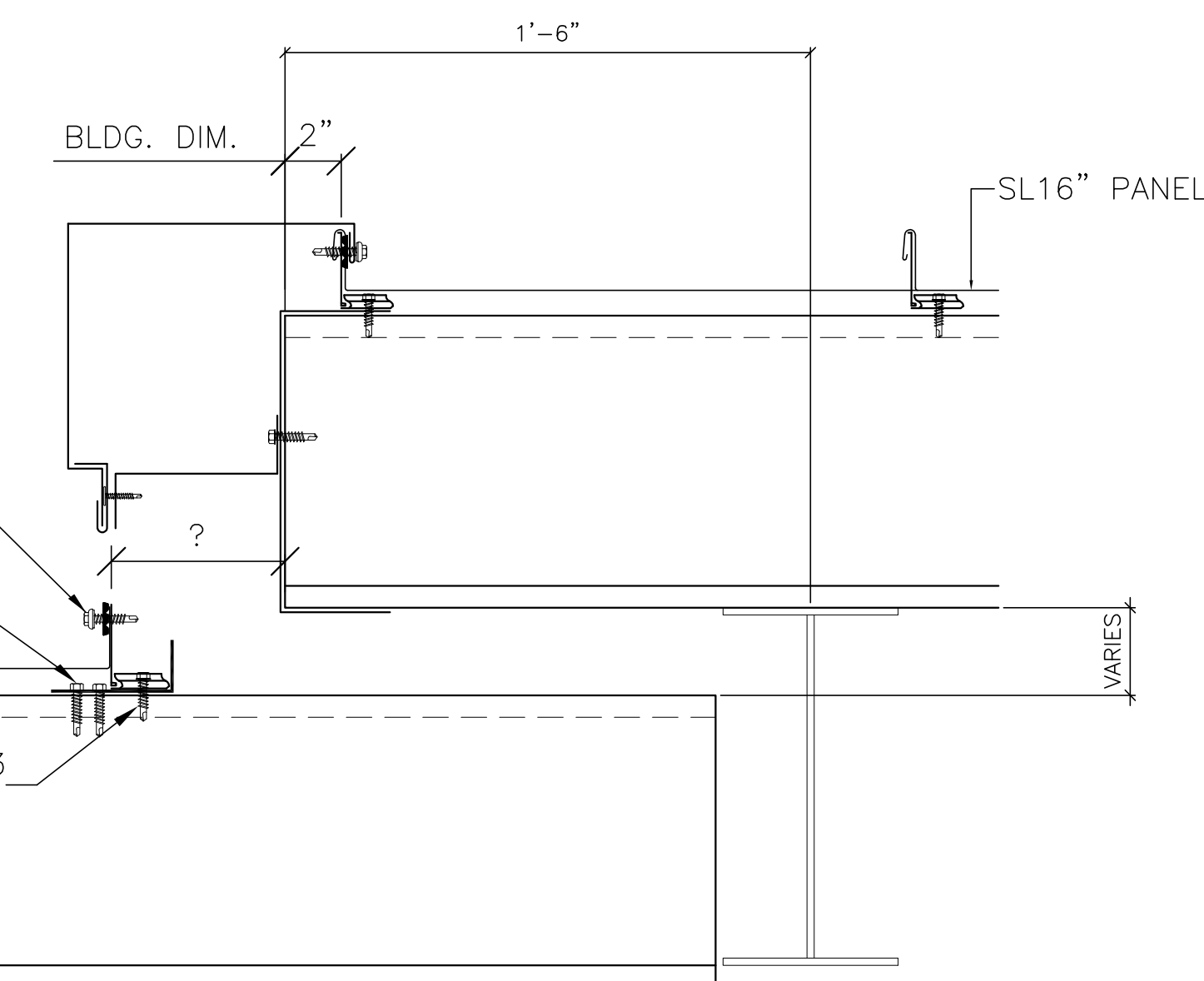
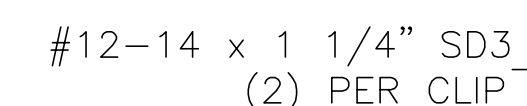
**TRIDENT**  
BUILDINGSYSTEMS INC.  
2812 Tallevast Road • Sarasota, Florida 34243  
Phone: 941-755-7073 • Fax: 941-755-3067

DESIGN PROVIDED BY :  
**PETER WALLIS**  
FLORIDA P.E.# 34418  
FABRICATION AND ERECTION  
DRAWINGS WERE PREPARED UNDER  
THE CLOSE PERSONAL SUPERVISION  
OF THE SPECIALTY ENGINEER  
SHOWN ABOVE.

Manatee County Transit Fleet Facility  
Bradenton, Florida  
Details  
Maint—Ops Building  
CUSTOMER: Willis Smith Construction

| REVISIONS |                                 |         |
|-----------|---------------------------------|---------|
| 1         | FOR APPROVAL                    | 3.10.15 |
| 2         | REVISED FOR APPROVAL            | TDB     |
| 3         | FOR CONSTRUCTION                | 3.26.15 |
| 4         | AREA A PRIMARY & SECONDARY ONLY | TDB     |
| 5         | REVISED FOR CONSTRUCTION        | 7.10.15 |
| 6         | AREA A PRIMARY & SECONDARY      | TDB     |
| 7         | REVISED FOR CONSTRUCTION        | 8.10.15 |
| 8         | AREA A PANEL & TRIM             | TDB     |
| 9         | REVISED FOR CONSTRUCTION        | 8.18.15 |
| 10        | FOR CONSTRUCTION                | TDB     |
| 11        |                                 | 8.24.15 |
| 12        |                                 | TDB     |
| 13        |                                 | 9.7.15  |
| 14        |                                 | TDB     |

DRAWING DATE  
**1/30/15**  
DRAWN BY  
**TDB**  
CHECKED BY  
**SS**  
DRAWING SCALE  
**N.T.S.**  
JOB NO.  
**15-011-07**  
SHEET  
**D4**



PETER WALLIS  
FLORIDA P.E.# 34418

CUSTOMER: Willis Smith Construction

| REVISIONS                                                                             |                                                           |                |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------|
|  | FOR APPROVAL                                              | 3.10.11<br>TDB |
|  | REVISED FOR APPROVAL                                      | 3.26.15<br>TDB |
|  | FOR CONSTRUCTION<br>AREA B<br>PRIMARY & SECONDARY ONLY    | 7.10.11<br>TDB |
|  | REVISED FOR CONSTRUCTION<br>AREA A<br>PRIMARY & SECONDARY | 8.10.11<br>TDB |
|  | REVISED FOR CONSTRUCTION<br>AREA A<br>PANEL & TRIM        | 8.18.11<br>TDB |
|  | REVISED FOR CONSTRUCTION                                  | 8.24.11<br>TDB |
|  | FOR CONSTRUCTION                                          | 9.7.15<br>TDB  |
|  |                                                           |                |
|  |                                                           |                |

|               |
|---------------|
| DRAWING DATE  |
| 1/30/15       |
| DRAWN BY      |
| TDB           |
| CHECKED BY    |
| SS            |
| DRAWING SCALE |
| N.T.S.        |
| JOB NO.       |
| 15-011-07     |
| SHEET         |
| D5            |

**FOR CONSTRUCTION  
SEPTEMBER 7, 2015**

**Peter Wallis and Associates**  
**Structural Engineers**

FLORIDA P.E. #34418  
 FLORIDA CERTIFICATE OF AUTHORIZATION #26156

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