GENERAL NOTES - OVERHEAD TRAFFIC SIGNS

CONSTRUCTION SPECIFICATIONS: CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES. LATEST EDITION EXCEPT AS SUPPLEMENTED OR AMENDED BY THE PLANS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, 2001 AND INTERM SPECIFICATIONS UP TO 2006.

STEEL: MISCELLANEOUS STEEL SHALL CONFORM TO A.S.T.M. A-709, GRADE 36. STEEL TUBING FOR TRUSS AND POST MEMBERS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF COLD-FORMED TUBING (A-500) GRADE "B" OR "C" (FY=42 KSI MIN.) UNLESS OTHERWISE NOTED.

ALUMINUM: ALL ALUMINUM EXCEPT SIGN PANELS SHALL CONFORM TO ASTM B-221, B-308, OR B-429 ALLOY 6061-T6 UNLESS OTHERWISE NOTED. SIGN PANELS SHALL BE .080" THICK ALUMINUM CONFORMING TO ASTM B-209 ALLOY 5052-H38 OR 6061-T6.

CONCRETE AND REINFORCING STEEL: CONCRETE USED IN FOOTINGS FOR OVERHEAD SIGN TRUSSES AND OVERHEAD CANTILEVER TRUSSES SHALL BE CLASS "AI". CONCRETE FOR DRILLED SHAFTS SHALL BE CLASS "S". ALL OTHER CONCRETE MAY BE CLASS "M". DIMENSIONS RELATING TO REINFORCING STEEL FABRICATION ARE OUT TO OUT OF BAR UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO REINFORCING STEEL SPACING ARE CENTER TO CENTER OF BAR OR FACE OF CONCRETE TO CENTERLINE OF BAR. REINFORCING STEEL SHALL HAVE A MINIMUM COVERING OF 2" EXCEPT WHEN CONCRETE IS CAST AGAINST THE EARTH THEN THE COVERING WILL BE 3". ALL REINFORCING STEEL SHALL BE GRADE 60. THE FIRST DIGIT OF REINFORCING BAR NUMBER INDICATES THE BAR SIZE. THE TOP EDGES OF THE FOOTING SHALL BE CHAMFERED 3/4".

CONCRETE FINISH: ALL PORTIONS OF THE FOOTINGS FOR CANTILEVERS AND TRUSSES ABOVE GROUNDLINE SHALL HAVE A FINISH IN ACCORDANCE WITH LOUISIANA SPECIFICATION. 805.08.3.

WELDING: ALL WELDING SHALL CONFORM TO THE LA. STANDARD SPECIFICATIONS-SECTION 809 AND SUPPLEMENTAL SPECIFICATIONS. WELDING OF GALVANIZED MEMBERS SHALL NOT BE ALLOWED WITHOUT THE PRIOR, WRITTEN APPROVAL OF THE FABRICATION ENGINEER.

NON-DESTRUCTIVE TESTING: ALL WELDS SHALL BE VISUALLY INSPECTED. MAGNETIC PARTICLE TESTING IS REQUIRED ON NOT LESS THAN 10% OF THE WELDS ON THE TRUSSES AND THEIR SUPPORT STRUCTURES.

SHOP DRAWINGS: SHOP DRAWINGS ARE REQUIRED FOR ALL OVERHEAD TRUSS, OVERHEAD CANTILEVER, FASCIA, AND ANY STRUCTURE MOUNTED SIGNS. SHOP DRAWINGS ARE NOT REQUIRED FOR EXTRUDED SIGN PANELS, UNLESS FABRICATOR INTENDS TO DEVIATE FROM THE DETAILS HEREIN. CONTRACTOR SHALL NOT INITIATE FABRICATION OF SIGNS OR SUPPORT STRUCTURES UNTIL ALL SHOP DRAWINGS ARE APPROVED BY THE ENGINEER.

GALVANIZING: ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A-123. THICKNESS OF GALVANIZING SHALL PROVIDE A MINIMUM 20 YEAR PROTECTION. PROPER VENTING PRACTICES SHALL BE USED AND DETAILED ON THE SHOP DRAWINGS. DAMAGE TO GALVANIZED SURFACES THAT ARE NOT TO BE ENCASED IN CONCRETE SHALL BE REPAIRED IN ACCORDANCE WITH LA. STANDARD SPECIFICATIONS SUBSECTION 811.08. ALL BOLTS, NUTS, WASHERS, AND MISC. HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A-153. ALL FIELD HOLES IN GALVANIZED MATERIAL SHALL BE TREATED WITH A COLD GALVANIZING COMPOUND FROM THE A.M.L.

BOLTS: UNLESS NOTED, ALL THREADED CONNECTIONS SHALL INCORPORATE A LOCKING DEVICE AND HAVE A MINIMUM OF 3 THREADS BEYOND THE NUTS. ALL BOLTS SHALL BE HIGH STRENGTH BOLTS, A.S.T.M. A-325, UNLESS OTHERWISE NOTED. STAINLESS STEEL FOR BOLTS SHALL CONFORM TO A.S.T.M. DESIGNATION A-320 B8, CLASS 2 TYPE 304, OR A-193 BB, CLASS 2 TYPE 304, UNLESS OTHERWISE NOTED. STAINLESS STEEL NUTS SHALL CONFORM TO A.S.T.M. DESIGNATION A-194, GRADE 8, TYPE 304. ALUMINUM BOLTS SHALL CONFORM TO A.S.T.M. F-468 ALLOY 2024-T4 AND NUTS ARE A.S.T.M. F-467 ALLOY 6061-T6 OR 6262-T9. WHERE BOLTS ARE USED ON BEVELED SURFACES, BEVELED WASHERS SHALL BE PROVIDED TO GIVE FULL BEARING TO THE HEAD AND/OR THE NUT.

D.T.I. WASHERS: DIRECT TENSION INDICATING (D.T.I.) WASHERS SHALL BE USED

ON ALL BOLTS WHERE TENSION VERIFICATION IS REQUIRED.

ANCHOR BOLTS: ANCHOR BOLTS SHALL CONFORM TO AASHTO M314, GRADE 55 (OR APPROVED EQUAL) AND BE HOT DIP GALVANIZED TO A.S.T.M. A-123. ANCHOR BOLT NUTS TO BE TIGHTENED A MINIMUM ROTATION OF 240° (2/3 TURNS) FROM THE SNUG TIGHT CONDITION. UNLESS OTHERWISE NOTED, ALL THREADED CONNECTIONS SHALL INCORPORATE A LOCKING DEVICE AND HAVE A MINIMUM OF 3 THREADS BEYOND THE NUTS.

RIVETS: ALL RIVETS SHALL BE 1/4" DIAMETER BLIND RIVETS WITH POSITIVE MANDREL RETENTION. THE RIVET BODY AND MANDREL SHALL BE ALUMINUM WITH A $\frac{1}{2}$ " MAXIMUM DIAMETER DOME HEAD. THE RIVETS SHALL HAVE A MINIMUM ULTIMATE TENSILE STRENGTH = 875 LBS., AND CONFORM TO ASTM B-316 5056-H32.

SIGN SHEETING: UNLESS OTHERWISE REQUIRED, ALL SIGN MATERIAL SHALL BE A MINIMUM ASTM D4956 TYPE X RETRO-REFLECTIVE SIGN SHEETING. IN ORDER TO OBTAIN AN ACCEPTABLE COLOR MATCH BETWEEN MULTIPLE PANELS ON A GUIDE SIGN, ALL OF THE BACKGROUND SHEETING FOR ANY GUIDE SIGN SHALL BE THE MINIMUM WIDTH OF THE LARGEST PANEL AND SHALL COME FROM THE SAME LOT OR RUN NUMBER FROM THE SHEETING MANUFACTURER UNLESS OTHERWISE APPROVED IN WRITING, RETRO-REFLECTIVE SHEETING SHALL BE APPLIED TO PANELS IN SUCH A MANNER THAT THERE ARE NO HORIZONTAL SPLICES.

MISCELLANEOUS: THE CONTRACTOR SHALL MARK THE DATE OF FABRICATION, SHEETING MANUFACTURER CODE, AND SIZE OF SIGN ON THE BACK OF EACH SIGN WITH AN APPROVED WEATHER RESISTANT PAINT STICK. SEE DETAIL "A", SHEET NO. 3 OF 16.

ALL DIMENSIONS REQUIRED FOR SATISFACTORY INSTALLATION SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE FABRICATION. ADJUSTMENTS SHALL BE MADE AS DIRECTED BY THE ENGINEER.

ALL ALUMINUM SURFACES PLACED IN CONTACT WITH, OR FASTENED TO UNGAL-VANIZED STEEL MEMBERS SHALL BE THROUGHLY COATED WITH AN APPROVED ALUMINUM IMPREGNATED CAULKING COMPOUND.

BEFORE SHIPPING A TRUSS, IT SHALL BE ASSEMBLED IN THE SHOP WITH ALL BOLTS IN PLACE. THE DISTANCE BETWEEN CENTER LINES OF BASE PLATES SHALL BE MEASURED AND CHECKED AGAINST FIELD MEASUREMENTS OF THE COLUMN SUPPORT SYSTEM PRIOR TO SHIPMENT.

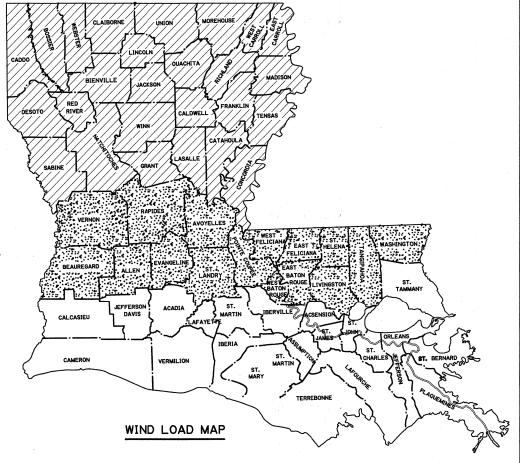
IN GENERAL, A STRUCTURE MOUNTED OVERHEAD SIGN SUPPORT SHOULD BE PLACED IN A LOW MOMENT AREA OF THE STRUCTURAL SPAN, THE IDEAL LOCATION IS WITHIN THE END 1/3 OF THE SPAN LENGTH FOR A SIMPLE SPAN STRUCTURE AND NEAR THE POINT OF CONTRAFLEXURE FOR A CONTINUOUS SPAN STRUCTURE. FOR OVERHEAD MOUNTED TYPE SIGNS, THE VERTICAL SUPPORT MEMBERS SHALL BE REPLACED WITH ONE PIECE FULL HEIGHT VERTICAL SUPPORT MEMBERS.

USE OF SECTIONS PROVIDING EQUAL OR GREATER STRENGTH THAN THE MEMBERS DESIGNATED BY THE PLANS SHALL BE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL

TREE TRIMMING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MISCELLANEOUS BRUSH AND TREE TRIMMING TO ALLOW FOR FULL SIGN PRESENTATION AS DIRECTED BY THE PROJECT ENGINEER.

GUARD RAIL REQUIREMENTS: A SITE SPECIFIC GUARD RAIL LAYOUT DETAIL SHALL BE PROVIDED FOR EACH GROUND MOUNTED SIGN TRUSS AND CANTILEVER. SEE GUARD RAIL STANDARD PLANS FOR ALL DESIGN CRITERIA AND DETAILS.





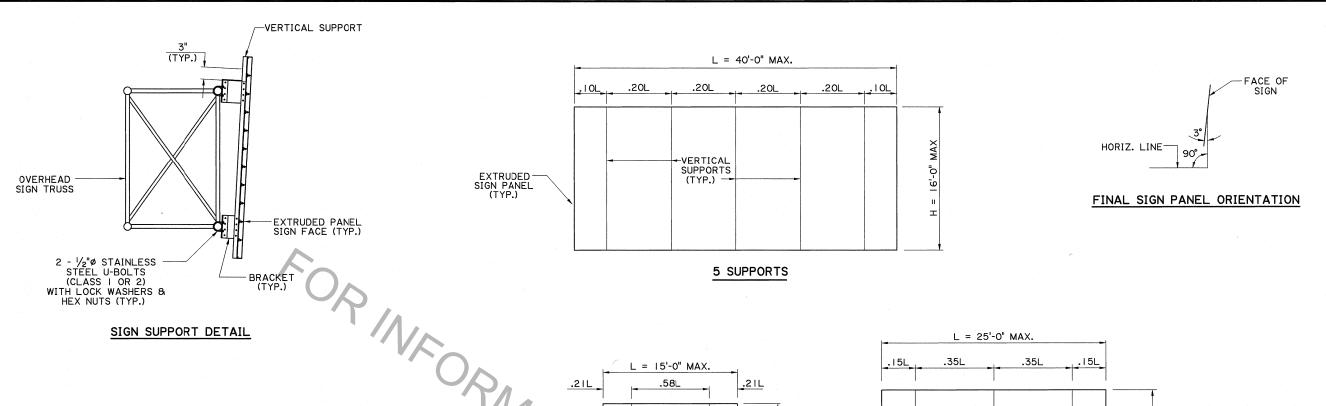
| WIND LOAD MAP LEGEND | | | | | | | | | |
|------------------------------------|---|--------|--|--|--|--|--|--|--|
| SYMBOL ZONE DESIGN WIND VELOCITY (| | | | | | | | | |
| | ı | 90 | | | | | | | |
| | 2 | 14.0 m | | | | | | | |
| | 3 | 130 | | | | | | | |

| SHEET | BRIDGE STANDARD INDEX NO. | DESCRIPTION |
|----------|---------------------------|--|
| I OF 16 | BD.2.7.1.0.1 | INDEX, WIND LOAD MAP AND GENERAL NOTES |
| 2 OF 16 | BD.2.7.1.0.2 | SIGN PANEL DETAILS |
| 3 OF 16 | BD.2.7.1.0.3 | EXTRUDED ALUMINUM PANELS |
| 4 OF 16 | BD.2.7.1.0.4 | EXTRUDED ALUMINUM PANELS |
| 5 OF 16 | BD.2.7.1.0.5 | OVERHEAD SIGN TRUSS |
| 6 OF 16 | BD.2.7.1.0.6 | MISCELLANEOUS DETAILS |
| 7 OF 16 | BD.2.7.1.0.7 | OVERHEAD TRUSS DESIGN TABLES |
| 8 OF 16 | BD.2.7.1.0.8 | PILE FOOTING DETAILS |
| 9 OF 16 | BD.2.7.1.0.9 | GROUND MOUNTED CANTILEVER |
| 10 OF 16 | BD.2.7.1.0.10 | STRUCTURE MOUNTED CANTILEVER |
| 11 OF 16 | BD.2.7.1.0.11 | CANTILEVER DESIGN TABLES |
| 12 OF 16 | BD.2.7.1.0.12 | OVERHEAD SIGN DATA TABLES |
| 13 OF 16 | BD.2.7.1.0.13 | DRILL SHAFT FOOTING ALT. |
| 14 OF 16 | BD.2.7.1.0.14 | DRILL SHAFT FOOTING ALT. |
| 15 OF 16 | BD.2.7.1.0.15 | FASCIA MOUNTED BRACKETS |
| 16 OF 16 | BD.2.7.1.0.16 | FASCIA MOUNTED BRACKETS |



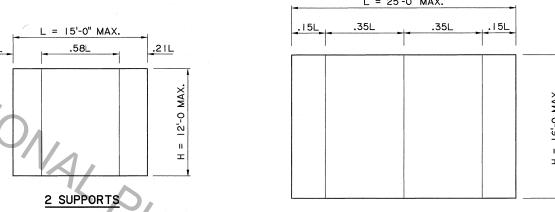
WIND LOAD MAP GENERAL NOTES





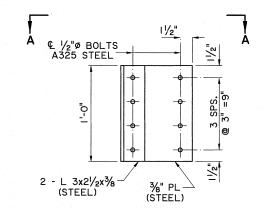
%"x6" PL (STEEL) 3/8" PL (STEEL) -¢ ½"ø BOLTS (A325 STEEL) — € ½"Ø U-BOLTS (STAINLESS STEEL)

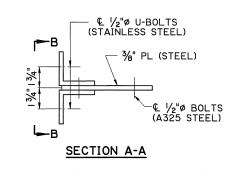
ALT. SECTION A-A



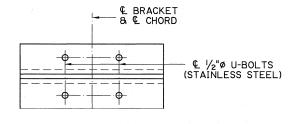
3 SUPPORTS

SPACING OF VERTICAL SUPPORTS FOR OVERHEAD SIGN AND FASCIA SIGN INSTALLATIONS





BRACKET DETAILS NOTE: ALL STRUCTURAL STEEL SHALL BE GALVANIZED



SECTION B-B

NOTES:

VERTICAL SUPPORTS FOR OVERHEAD SIGNS SHALL BE $4x3x\frac{3}{16}$ ALUMINUM ANGLE. TWO (2) ANGLES ARE REQUIRED FOR EACH VERTICAL SUPPORT.

FOR NEW OVERHEAD SIGN PANELS (INCLUDING FASCIA MOUNTED) INCORPORATING EXISTING STRUCTURE SUPPORTS (SIGN TRUSS, SIGN CANTILEVER, AND FASCIA), THE CONTRACTOR WILL PLACE NEW VERTICAL SUPPORT ANGLES WITHOUT





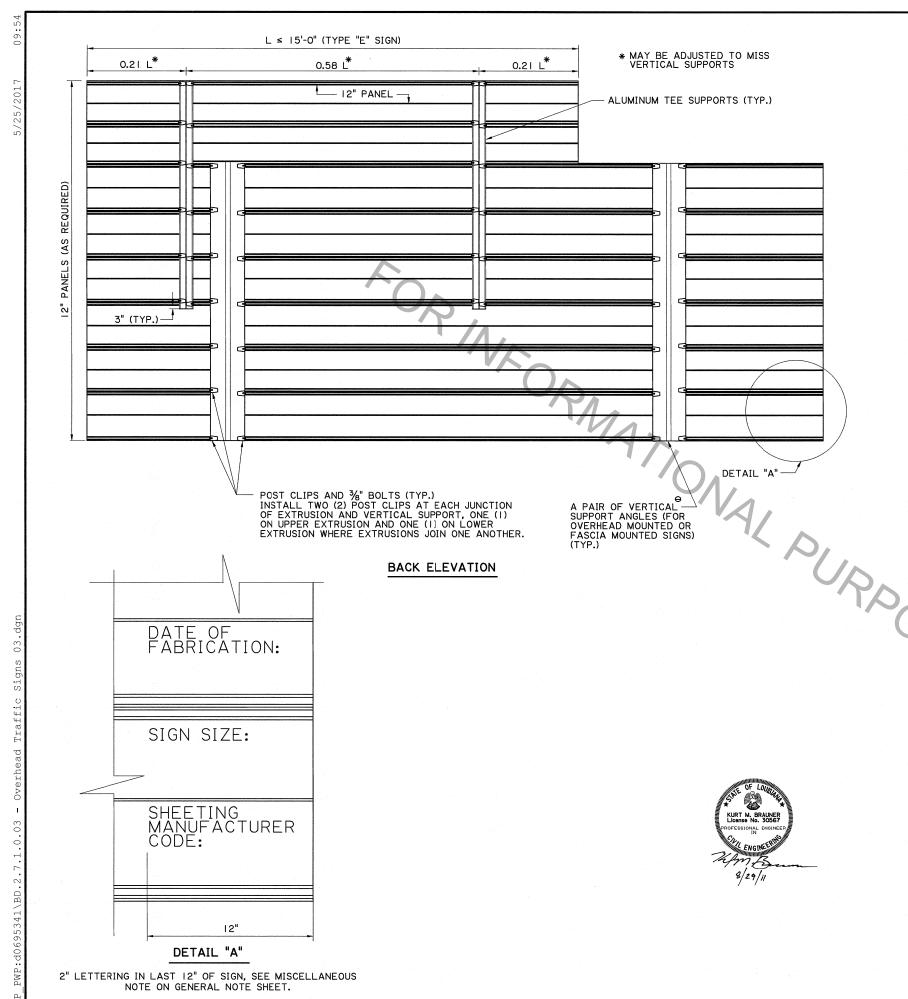
DETAILS

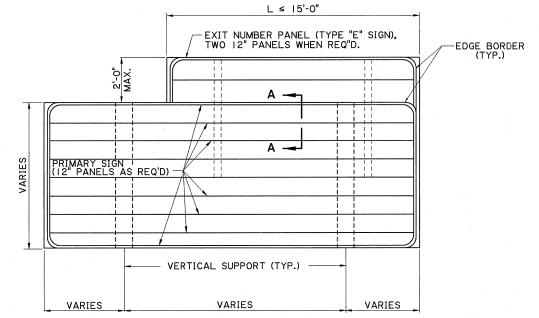
PANEL

SIGN

SPLICES THAT EXTEND THE FULL HEIGHT OF THE PRIMARY SIGN PANEL. THESE SUPPORTS AND ALL OTHER MATERIALS REQUIRED TO CONNECT TO AN EXISTING MOUNT SHALL BE INCLUDED IN THE COST OF THE SIGN PANEL.







FRONT ELEVATION (SEE SHEET NO. 4 OF 16 FOR SECTION VIEW)

NOTES:

ALL 12" EXTRUDED ALUMINUM PANELS SHALL BE ALUMINUM ALLOY 6063-T6.

ALL POST CLIPS SHALL BE ALUMINUM ALLOY 356-T6.

ALL EXTRUDED PANEL BOLTS AND POST CLIP BOLTS SHALL BE ALUMINUM. ALL HEX LOCK NUTS SHALL BE ALUMINUM ALLOY 2017-T4. ALL POST CLIP BOLTS SHALL BE TORQUED TO A MINIMUM OF 175 IN.-LBS.

ALL POST CLIP BOLTS, SHALL HAVE HEADS DESIGNED TO FIT THE BOLT SLOTS IN THE PANELS.

TYPE "E" SIGNS SHALL BE ATTACHED TO PRIMARY SIGNS WITH ALUMINUM TEE SUPPORTS, [DOUBLE THE HEIGHT OF THE TYPE "E" SIGN PLUS ONE (I) FOOT, ONE (I) INCH FOR LENGTH OF TEE], POST CLIPS, POST CLIP BOLTS, AND HEX LOCK NUTS.

FOR NEW OVERHEAD SIGNS (INCLUDING FASCIA MOUNTED) INCORPORATING EXISTING MOUNTS, THE CONTRACTOR WILL PLACE VERTICAL SUPPORT ANGLES WITHOUT SPLICES THAT EXTEND THE FULL HEIGHT OF THE EXTRUDED PRIMARY SIGN PANEL.

FOR NEW TYPE "D" SIGNS INCORPORATING EXISTING MOUNTS, THE EXISTING POST MAY BE REUSED IF THE NEW SIGN PANEL DOES NOT EXTEND OVER 2'-0" ABOVE THE EXISTING POST. SUCH NEW SIGNS WILL BE MOUNTED TO ALUMINUM TEE SUPPORTS BEGINNING AT THE TOP OF THE SIGN AND EXTENDING DOWNWARD FROM THE TOP OF THE POST THE DISTANCE THE NEW SIGN IS ABOVE THE EXISTING POST PLUS I'-O". ONE TEE IS REQUIRED ADJACENT TO EACH EXISTING POST AND ATTACHED WITH POST CLIPS AS SHOWN FOR NEW TYPE "E" SIGNS. IF THE NEW SIGN EXTENDS OVER 2'-0" ABOVE THE EXISTING POST, THE CONTRACTOR IS TO REPLACE THE EXISTING POST AND MEET DETAILS FOR NEW CONSTRUCTION.

REFLECTIVE SHEETING FOR EXTRUDED PANELS: ONLY SPLICES THAT OCCUR AS PART OF THE MANUFACTURING PROCESS SHALL BE PERMITTED. A MAXIMUM OF TWO VERTICAL SPLICES ON ANY ONE SIGN FABRICATED USING EXTRUDED PANELS, WITH ONE SPLICE PER EXTRUDED PANELS SHALL BE ALLOWED. ALL "EXIT ONLY" PANELS THAT ARE DETAILED WITH THE TOP AND/OR BOTTOM EDGE NOT AT AN EXTRUDED PANEL EDGE SHALL BE FABRICATED FROM .080" ALUMINUM AND ATTACHED AS AN OVERLAY, ALL OTHER "EXIT ONLY" PANELS SHALL BE FABRICATED BY APPLYING THE YELLOW REFLECTIVE SHEETING ON THE EXTRUDED PANELS. THE REFLECTIVE SHEETING APPLIED TO EXTRUDED PANELS SHALL EXTEND APPROXIMATELY 1/4" OVER EACH SIDE AND SHALL BE ADHERED TO THE SIDE OF THE PANEL.

THIS SHEET TO BE USED WITH WIND LOAD MAP AND GENERAL NOTES SHEET.

- ☑ POSSIBLE LOWER MOUNTED TYPE "E" SIGN NOT SHOWN. WHEN LOWER MOUNT IS REQUIRED, IT SHALL BE CENTERED BETWEEN THE EDGES OF THE MAIN SIGN.
- O SPACING AND NUMBER OF SUPPORTS VARIES. (SEE SHT. NO. 2 OF 16)

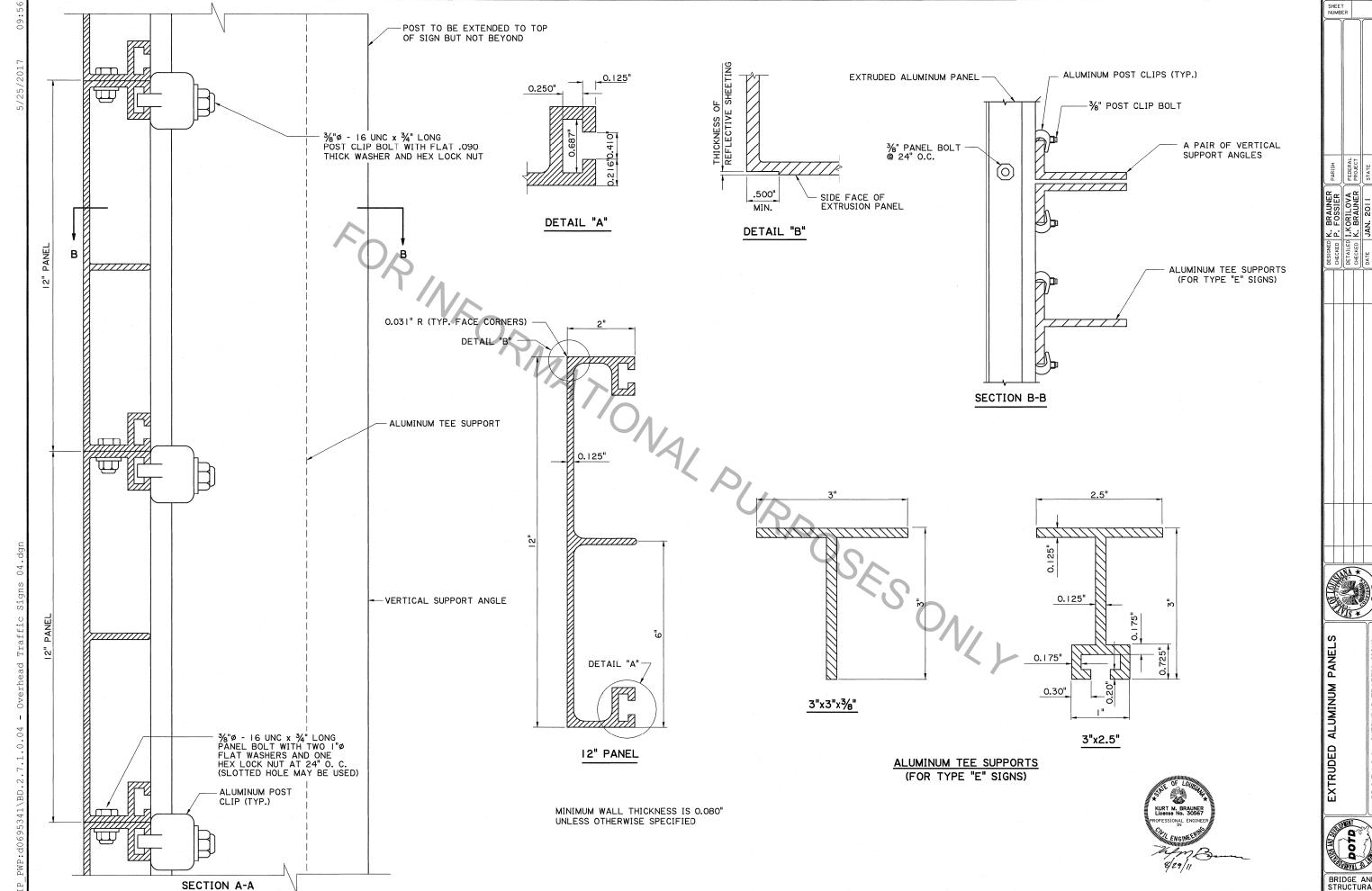


FOSSIER
KOURILOVA
BRAUNER
IN. 2011

PANEL

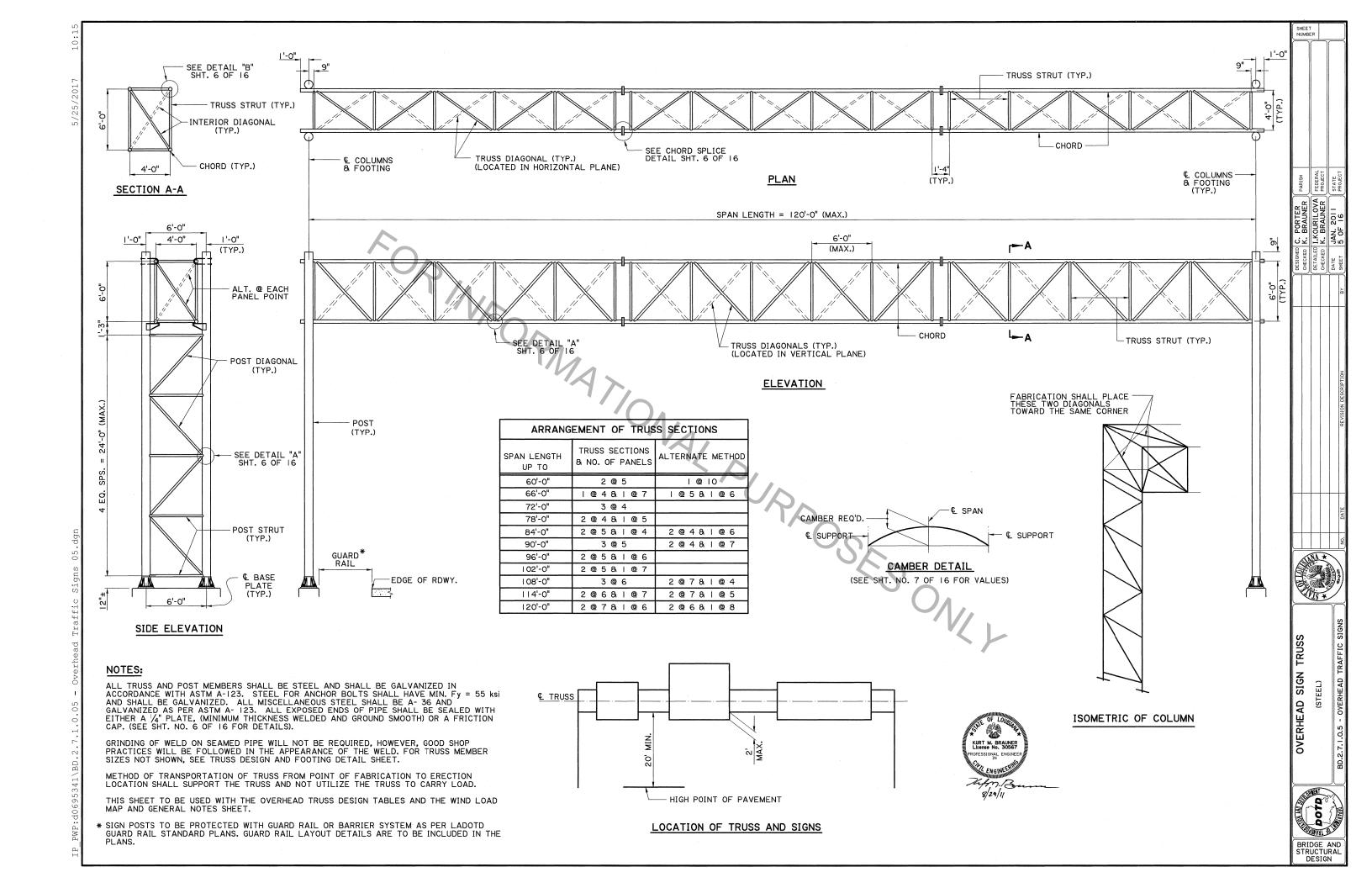
ALUMINUM

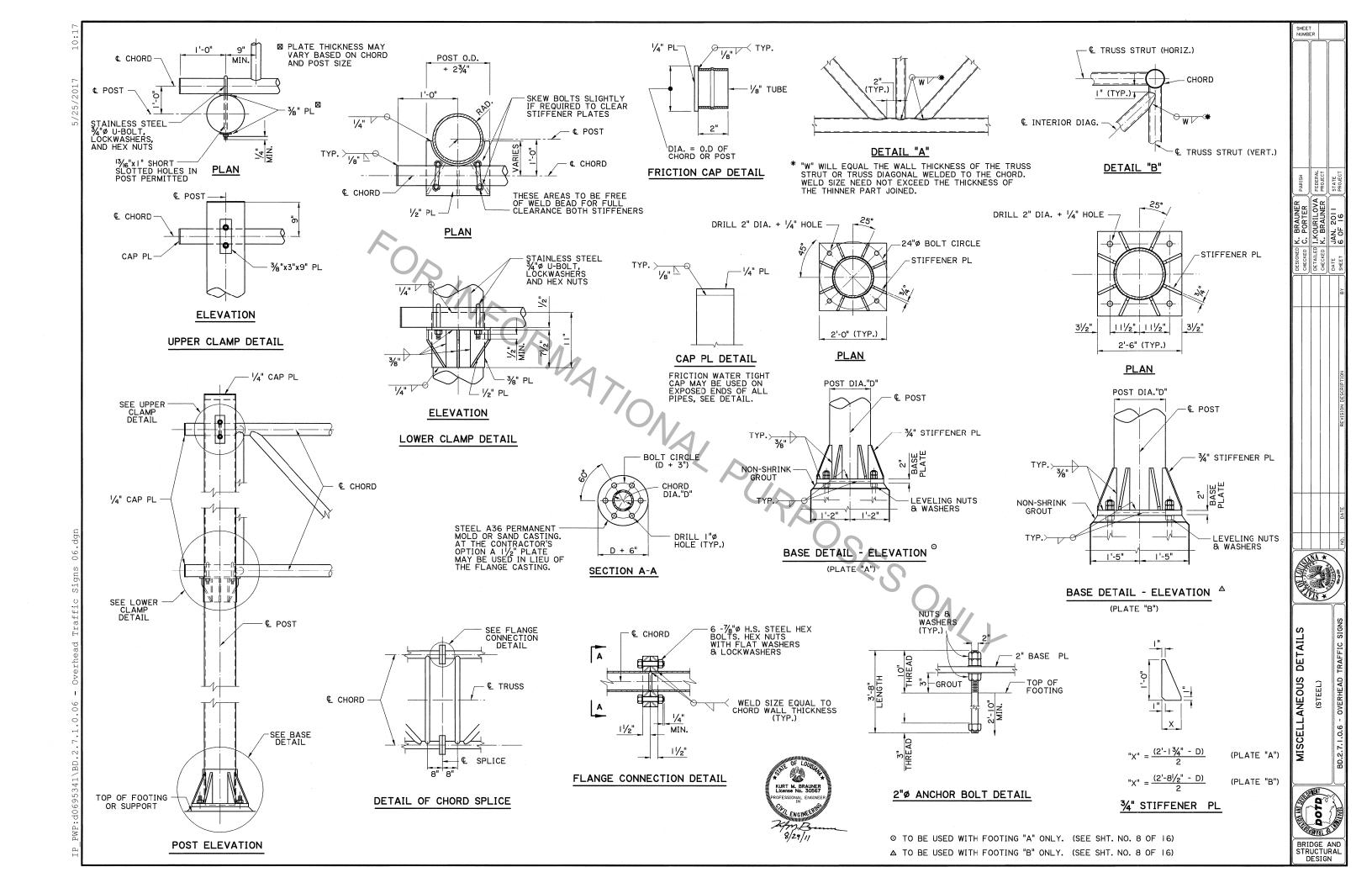
EXTRUDED











GROUND MOUNTED OVERHEAD SIGN TRUSS DESIGN TABLE

90 MPH WIND VELOCITY

| SIGN PANEL AREA | < 600 SQ.FT. | | 600-900 SQ.FT. | | 900-1100 SQ.FT. | |
|-----------------|--------------|-----------------------------------|----------------|----------------------|-----------------|----------------|
| SPAN AREA | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER |
| < 60 FT | 1 | 15/16" | N/A | N/A | N/A | N/A |
| 60 - 84 FT | 1 1 | 1 7/6" | 2 | 1 %6" | 3 | 11/2" |
| 84 - 96 FT | 1 | □%" | 3 | l ¹⁵ /16" | 4 | l 13/16" |
| 96 - 120 FT | 2 | 2 ¹³ / ₁₆ " | 4 | 2¾" | 5 | 211/16" |

IIO MPH WIND VELOCITY

| SIGN PANEL AREA | < 600 SQ.FT. | | 600-900 SQ.FT. | | 900-1100 SQ.FT. | |
|--------------------|--------------|----------------------|----------------|----------------------|-----------------|----------------|
| SPAN | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER |
| < 60 FT | | 15/16" | N/A | N/A | N/A | N/A |
| 60 - 84 FT | 3 | 1 7/6" | 5 | 1 7/6" | 6 | 17/6" |
| 84 - 96 FT | 3 | l ¹³ /16" | 5 | l ¹³ /16" | 6 | l 3/4" |
| 96 - 120 FT | 5 | 21/2" | 6 | 21/2" | 8* | 21/2" |

130 MPH WIND VELOCITY

| SIGN PANEL AREA | < 600 SQ.FT. | | 600-900 SQ.FT. | | 900-1100 SQ.FT. | |
|-----------------|--------------|----------------|----------------|----------------|-----------------|----------------|
| SPAN | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER |
| < 60 FT | 5 | 7⁄8" | N/A | N/A | N/A | N/A |
| 60 - 84 FT | 5 | 13/8" | 8 * | 13/8" | 9 * | 13/8" |
| 84 - 96 FT | 6 | l / 6" | 8 * | l II/16" | 9 * | 1 5/8" |
| 96 - 120 FT | 7 | 23/8" | 10 * | 23/8" | 11 * | 23/8" |

STRUCTURE MOUNTED[®] OVERHEAD SIGN TRUSS DESIGN TABLE

90 MPH WIND VELOCITY

| SIGN PANEL | < 600 SQ.FT. | | 600-900 SQ.FT. | | 900-1100 SQ.FT. | |
|-------------|--------------|----------------|----------------|----------------------|-----------------|----------------|
| SPAN | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER |
| < 60 FT | | 15/16" | N/A | N/A | N/A | N/A |
| 60 - 84 FT | 2 | 17/16" | 4 | 1 7/6" | 4 | 1 7/6" |
| 84 - 96 FT | 2 | l 13/16" | 4 | l ¹³ /16" | 5 | 13/4" |
| 96 - 120 FT | 4 | 2%6" | 5 | 211/16" | 7 | 21/2" |

IIO MPH WIND VELOCITY

| SIGN PANEL AREA | < 600 SQ.FT. | | 600-900 SQ.FT. | | 900-1100 SQ.FT. | |
|--------------------|--------------|----------------|----------------|----------------|-----------------|----------------|
| SPAN | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER |
| < 60 FT | 3 | 7⁄8" | N/A | N/A | N/A | N/A |
| 60 - 84 FT | 4 | 13/8" | 7 | 1%" | 8 | 1%" |
| 84 - 96 FT | 5 | l / 6" | 7 | 1 11/16" | 8 | 111/16" |
| 96 - 120 FT | 7 | 23/8" | 8 | 21/2" | 10 | 23/8" |

130 MPH WIND VELOCITY

| SIGN PANEL | < 600 SQ.FT. | | 600-900 SQ.FT. | | 900-1100 SQ.FT. | | | | |
|-------------|-----------------|---------------------------------|-----------------|--------------------------------|------------------------|--------------------------------|--|--|--|
| | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER | GROUP NO. | REQ. CAMBER | | | |
| < 60 FT | 6 | 7∕8" | N/A | N/A | N/A | N/A | | | |
| 60 - 84 FT | 7 | 15/6" | 9 | 13/8" | 10 | 15/16" | | | |
| 84 - 96 FT | 8 | 1 5/8" | 10 | 1%" | 11 | 1 5/8" | | | |
| 96 - 120 FT | 10 | 21/4" | 11 | 23/8" | N/A | N/A | | | |
| SPAN | GROUP NO. 6 7 8 | REQ. CAMBER 7/8" 15/6" | GROUP NO. N/A 9 | REQ. CAMBER N/A 13/8" | GROUP NO. N/A IO II | REQ. CAMBER N/A 15/6" | | | |

OVERHEAD TRUSS MEMBER SIZES

MEMBER DIAMETER (IN.) x MEMBER THICKNESS (IN.)

| MEMBER PROMETER (IV.) & MEMBER TIZONAESS (IV.) | | | | | | | | | |
|--|---------------|---------------|-----------------|--------------------|--------------------|-------------|----------------|--|--|
| GROUP NO. | POSTS | CHORDS | TRUSS STRUTS | TRUSS DIAGONALS | INTERIOR DIAGONALS | POST STRUTS | POST DIAGONALS | | |
| | 12.75 X 0.25 | 4.0 X 0.226 | 2.875 X 0.203 | 2.875 X 0.203 | 2.375 X 0.154 | 3.5 X 0.216 | 3.5 X 0.216 | | |
| 2 | 12.75 X 0.25 | 4.5 X 0.237 | 2.875 X 0.203 | 2.875 X 0.203 | 2.375 X 0.154 | 3.5 X 0.216 | 3.5 X 0.216 | | |
| 3 | 14.00 X 0.25 | 4.5 X 0.237 | 2.875 X 0.203 | 2.875 X 0.203 | 2.375 X 0.154 | 3.5 X 0.216 | 3.5 X 0.216 | | |
| 4 | 14.00 X 0.25 | 5.563 X 0.258 | 2.875 X 0.203 | 2.875 X 0.203 | 2.375 X 0.154 | 3.5 X 0.216 | 3.5 X 0.216 | | |
| 5 | 16.00 X 0.25 | 5.563 X 0.258 | 2.875 X 0.203 | 2.875 X 0.203 | 2.375 X 0.154 | 3.5 X 0.216 | 3.5 X 0.216 | | |
| 6 | 18.00 X 0.25 | 5.563 X 0.258 | 2.875 X 0.203 | 2.875 X 0.203 | 2.875 X 0.203 | 3.5 X 0.216 | 4.0 X 0.226 | | |
| 7 | 18.00 X 0.25 | 5.563 X 0.375 | 2.875 X 0.203 | 2.875 X 0.203 | 2.875 X 0.203 | 3.5 X 0.216 | 4.0 X 0.226 | | |
| 8 | 18.00 X 0.312 | 5.563 X 0.375 | 2.875 X 0.203 | 3.5 X 0.216 | 2.875 X 0.203 | 3.5 X 0.216 | 4.5 X 0.237 | | |
| 9 | 18.00 X 0.375 | 5.563 X 0.375 | 2.875 X 0.203 | 3.5 X 0.216 | 2.875 X 0.203 | 3.5 X 0.216 | 5.563 X 0.258 | | |
| 10 | 18.00 X 0.375 | 5.563 X 0.50 | 2.875 X 0.203 | 3.5 X 0.216 | 2.875 X 0.203 | 3.5 X 0.216 | 5.563 X 0.258 | | |
| ŢŢ. | 18.00 X 0.438 | 5.563 X 0.50 | 2.875 X 0.203 | 4.0 X 0.226 | 2.875 X 0.203 | 3.5 X 0.216 | 6.625 X 0.432 | | |

HOW TO USE TABLES:

- I. DETERMINE IF TRUSS IS GROUND MOUNTED OR STRUCTURE MOUNTED.
- 2. FIND WIND VELOCITY USING WIND MAP ON GENERAL NOTES SHEET (SHT. NO. | OF | 16) AND CHOOSE APPROPRIATE SECTION IN TABLE.
- DETERMINE DESIGN SIGN AREA AND SELECT THE APPROPRIATE COLUMN. (DESIGN SIGN AREA = SUM OF ACTUAL SIGN PANEL AREAS X 1.3)
- 4. DETERMINE SPAN LENGTH AND CHOOSE APPROPRIATE ROW.
- 5. FIND CORRESPONDING GROUP NUMBER IN THE "OVERHEAD TRUSS MEMBER SIZES" TABLE AND APPLY MEMBER SIZES ACCORDINGLY. FILL IN THE "OVERHEAD TRUSS DATA TABLE" WITH THE APPROPRIATE DESIGN INFORMATION (SEE SHT NO. 12 OF 16).

NOTES:

ALL MEMBERS LISTED IN THE OVERHEAD TRUSS MEMBER SIZES TABLE SHALL BE STEEL PIPE OR TUBE AND SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 42 KSI.

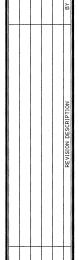
TUBE OR A.N.S.I. PIPE SECTIONS PROVIDING EQUAL OR GREATER STRENGTH THAN ANY MEMBER DESIGNATED IN THE TABLE MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

ALL DESIGNS MUST BE CONFIRMED ON THE FABRICATION DRAWINGS AND APPROVED BY LA DOTD BEFORE FABRICATION IS INITIATED.

ALL STRUCTURE MOUNTED TRUSSES SHALL USE PLATE "B". (SEE SHT. NO. 6 OF 16.)

- * FOR GROUND MOUNTED TRUSSES, GROUP NOS. 8 THROUGH II SHALL USE PLATE "B" AND FOOTING "B" ONLY. (SEE SHT. NO. 8 OF 16)
- ☑ GROUND MOUNTED TRUSSES USED ON EMBANKMENTS ≥ 10 FT. HIGH SHALL BE DESIGNED USING THE STRUCTURE MOUNTED DESIGN TABLES.
- ⊗ A DESIGN REQUEST MUST BE SUBMITTED FOR ALL TRUSSES WHOSE SIGN CENTERS ARE MORE THAN 50 FT. ABOVE THE SURROUNDING GROUNDLINE.







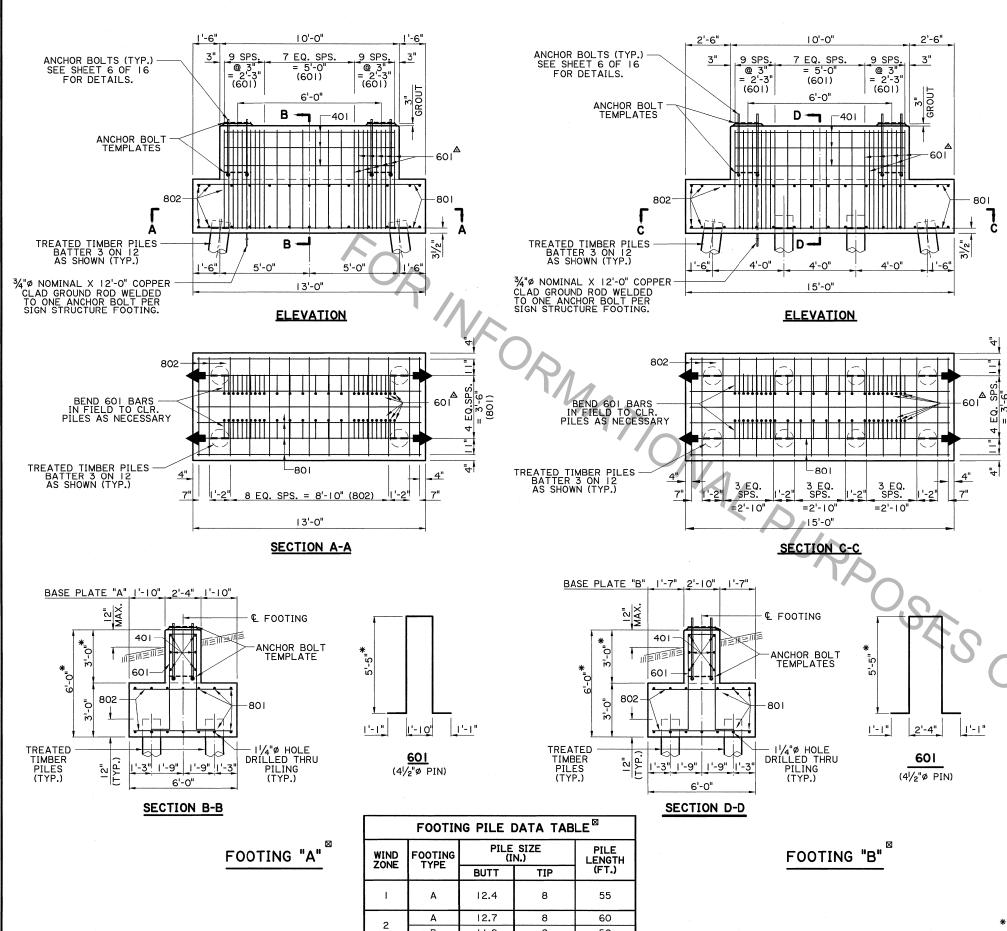
SIGN TABLI

(STEEL)

S)



RIDGE AND TRUCTURAL DESIGN



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| ESTIMATED QUANTITIES (FOOTING "A") | | | | | | | | | | |
|---------------------------------------|--|---|---|--|--|--|--|--|--|--|
| NO. | UNIT LENGTH | TOTAL LENGTH | | LOCATION | | | | | | |
| 14 | 12'-6" | 175'-0" | FOOTING | G | | | | | | |
| 26 | 5'-6" | 143'-0" | FOOTING | G | | | | | | |
| | | | | | | | | | | |
| O. 8 BAI | RS = 318 | -0" | = | 849 LBS. | | | | | | |
| 26 | 14'-10" | 385'-8" | STIRRUF | S IN FOOTING & PED | | | | | | |
| | | | | | | | | | | |
| 0. 6 BAI | RS = 385' | -8" | = | 579 LBS. | | | | | | |
| 6 | 9'-6" | 57'-0" | PEDEST | AL | | | | | | |
| | | | | | | | | | | |
| 0. 4 BAI | RS = 57'- | 0" | = | 38 LBS. | | | | | | |
| EFORME | D REINFO | RCING ST | EEL = | 1466 LBS. | | | | | | |
| LASS AI | CONCRE | ΓΕ | = | 11.14 CU.YDS. | | | | | | |
| RAL EXC | NOITAVA | = | 40.0 CU.YDS. | | | | | | | |
| STRUCTURAL STEEL = (SEE A.B. DETAILS) | | | | | | | | | | |
| TIMBER | PILES | | = | 240 LIN. FT. | | | | | | |
| | NO. 14 26 0. 8 BAI 26 0. 6 BAI 6 0. 4 BAI EFORME LASS AI RAL EXC | NO. UNIT LENGTH 14 12'-6" 26 5'-6" O. 8 BARS = 318' 26 14'-10" O. 6 BARS = 385' 6 9'-6" O. 4 BARS = 57'-6 EFORMED REINFO LASS AI CONCRET | NO. UNIT LENGTH LENGTH 14 12'-6" 175'-0" 26 5'-6" 143'-0" O. 8 BARS = 318'-0" 26 14'-10" 385'-8" O. 6 BARS = 385'-8" 6 9'-6" 57'-0" EFORMED REINFORCING STELASS AI CONCRETE RAL EXCAVATION RAL STEEL | NO. UNIT LENGTH LENGTH 14 12'-6" 175'-0" FOOTING 26 5'-6" 143'-0" FOOTING O. 8 BARS = 318'-0" = 26 14'-10" 385'-8" STIRRUF O. 6 BARS = 385'-8" = 6 9'-6" 57'-0" PEDEST O. 4 BARS = 57'-0" = EFORMED REINFORCING STEEL = LASS A1 CONCRETE = RAL EXCAVATION = RAL STEEL = | | | | | | |

O WIND ZONE 2 ASSUMED FOR PILE QUANTITIES. FOR OTHER WIND ZONES, ADJUST QUANTITIES ACCORDINGLY. SEE FOOTING PILE DATA TABLE.

| | ESTIMATED QUANTITIES (FOOTING "B") | | | | | | | | | | | | |
|---------|------------------------------------|----------------|----------|----------|-------------------|--|--|--|--|--|--|--|--|
| BAR | NO. | UNIT LENGTH | L | OCATION | | | | | | | | | |
| 801 | 14 | 14'-6" | 203'-0" | FOOTING | | | | | | | | | |
| 802 | 32 | 5'-6" | 176'-0" | FOOTING | | | | | | | | | |
| | | | | | | | | | | | | | |
| TOTAL N | O. 8 BA | RS = 379' | -0" | = | 1012 LBS. | | | | | | | | |
| 601 | 26 | 15'-4" | 398'-8" | STIRRUPS | IN FOOTING & PED | | | | | | | | |
| | | | | - | | | | | | | | | |
| TOTAL N | IO. 6 BAI | RS = 398' | -8" | = | 599 LBS. | | | | | | | | |
| 401 | 6 | 9'-6" | 57'-0" | PEDESTAL | - | | | | | | | | |
| | | | | | | | | | | | | | |
| TOTAL N | O. 4 BA | RS = 57'- | 0" | = | 38 LBS. | | | | | | | | |
| TOTAL D | EFORME | D REINFO | RCING ST | EEL = | 1649 LBS. | | | | | | | | |
| TOTAL C | LASS AI | CONCRE | ΓΕ | = | 12.92 CU.YDS. | | | | | | | | |
| STRUCTU | RAL EXC | CAVATION | | = | 45.0 CU.YDS. | | | | | | | | |
| STRUCTU | RAL STE | EL | | = (S | SEE A.B. DETAILS) | | | | | | | | |
| TREATE | TIMBER | PILES | | = | 400 LIN. FT. | | | | | | | | |
| | | | | | | | | | | | | | |

O WIND ZONE 2 ASSUMED FOR PILE QUANTITIES. FOR OTHER WIND ZONES, ADJUST QUANTITIES ACCORDINGLY. SEE FOOTING PILE DATA TABLE.





NOTES:

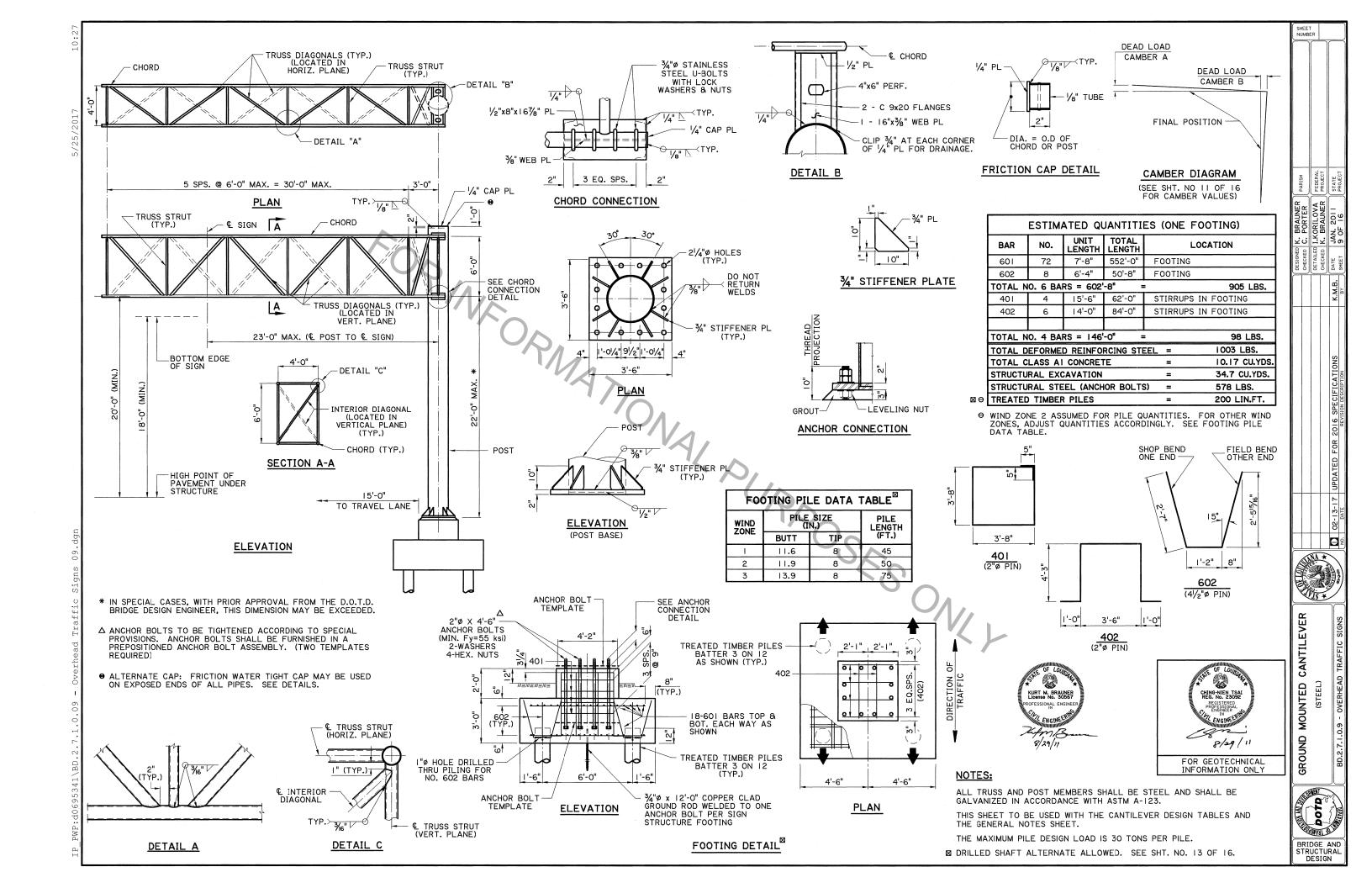
THIS SHEET TO BE USED WITH WIND LOAD MAP AND GENERAL NOTES SHEET.
MAXIMUM PILE DESIGN LOAD IS 30 TONS PER PILE.

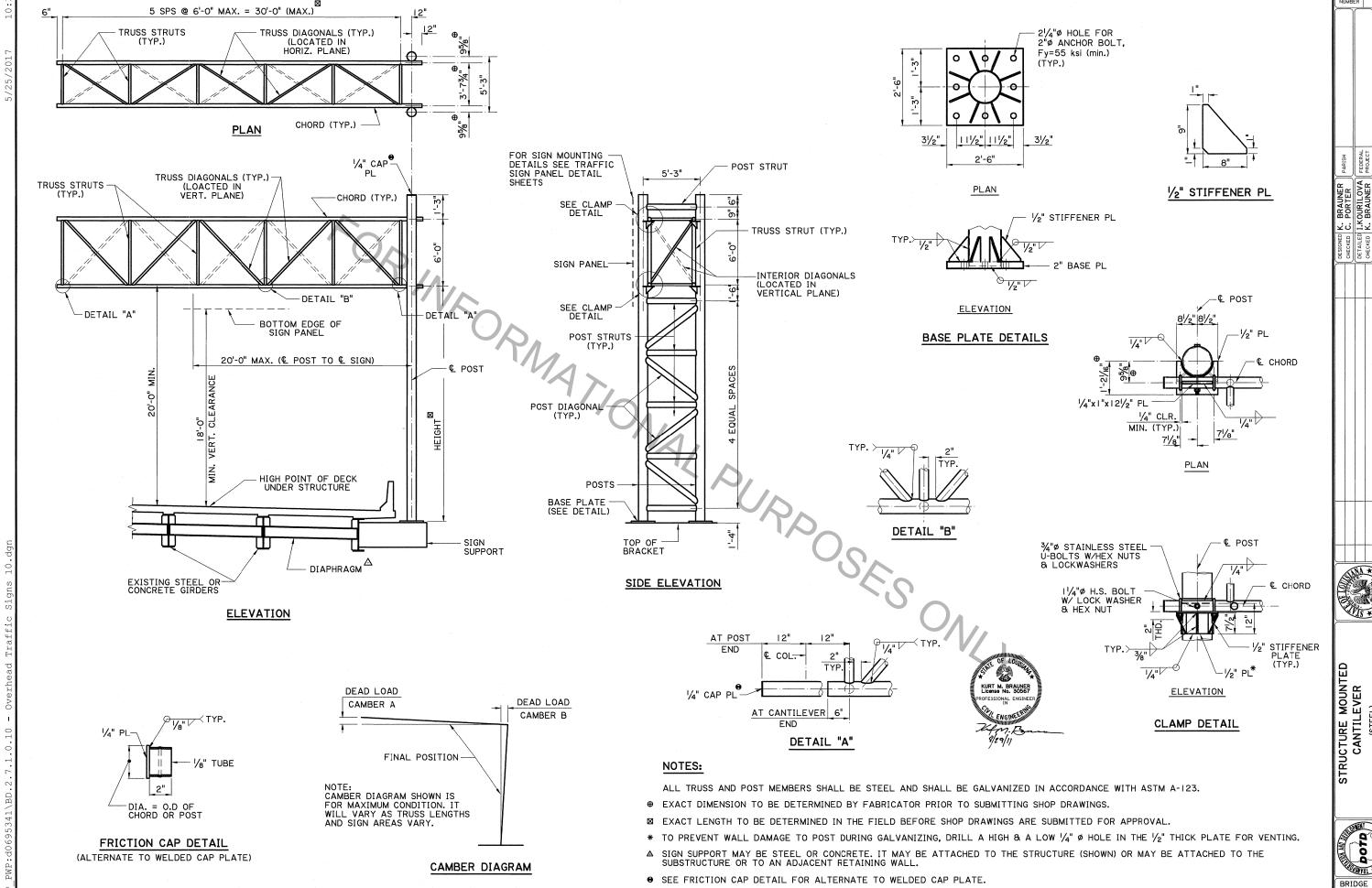
ANCHOR BOLTS SHALL BE FURNISHED IN A PREPOSITIONED ANCHOR BOLT ASSEMBLY. (TWO TEMPLATES REQUIRED)

FOR BASE PLATE DETAILS, SEE SHT. NO. 6 OF 16.

- * THESE DIMENSIONS MAY BE VARIED ± ONE FOOT TO ADJUST ELEVATION FOR SITE CONDITIONS. ADJUST BARS 401 & 601 ACCORDINGLY.
- $\ensuremath{\Delta}$ No. 601 bars may be moved to clear truss anchor bolts.
- ☑ DRILLED SHAFT ALTERNATE ALLOWED. SEE SHT. NOS. 13 & 14 OF 16.

BRIDGE AND STRUCTURAL DESIGN





BRIDGE AND

GROUND MOUNTED® **CANTILEVER DESIGN TABLE**

| 1 | | | | |
|------------|-----------|----------------------|----------|----------------------|
| WIND SPEED | GROUP NO. | CAMBER A | CAMBER B | MAX. SIGN AREA |
| 90 MPH | 1 | 21/8" | 3/4" | 300 SQ.FT. |
| I I O MPH | 2 | ۱ %" | 5/8" | 300 SQ.FT. |
| 130 MPH | 3 | l ¹³ /16" | 5/8" | 300 SQ.FT. |

| | GROUND MOUNTED CANTILEVER MEMBER SIZES MEMBER DIAMETER (IN.) X MEMBER THICKNESS (IN.) | | | | | | | | | | |
|--------------|--|---------------|-----------------|--------------------|-----------------------|--|--|--|--|--|--|
| GROUP NO. | POSTS | CHORDS | TRUSS STRUTS | TRUSS DIAGONALS | INTERIOR DIAGONALS | | | | | | |
| | 24.0 X 0.375 | 2.875 X 0.203 | 2.875 X 0.203 | 2.875 X 0.203 | 2.375 X 0.154 | | | | | | |
| 2 | 24.0 X 0.50 | 3.5 X 0.216 | 2.875 X 0.203 | 2.875 X 0.203 | 2.375 X 0.154 | | | | | | |
| 3 | 24.0 X 0.562 | 4.5 X 0.237 | 2.875 X 0.203 | 2.875 X 0.203 | 2.375 X 0.154 | | | | | | |

STRUCTURE MOUNTED **CANTILEVER DESIGN TABLE**

| WIND SPEED | GROUP NO. | CAMBER A | CAMBER B | MAX. SIGN AREA |
|------------|-----------|----------|----------|----------------------|
| 90 MPH | 1 1 | 6" | 3¾" | 250 SQ.FT. |
| IIO MPH | 2 | 6" | 3¾" | 250 SQ.FT. |
| 130 MPH | 3 | 6" | 33/4" | 200 SQ.FT. |

STRUCTURE MOUNTED CANTILEVER MEMBER SIZES

MEMBER DIAMETER (IN.) X MEMBER THICKNESS (IN.)

| GROUP NO. | POSTS | CHORDS | TRUSS STRUTS | TRUSS DIAGONALS | INTERIOR DIAGONALS | POST STRUTS | POST DIAGONALS |
|--------------|---------------|---------------|-----------------|--------------------|-----------------------|----------------|-------------------|
| 1 | 12.75 X 0.375 | 5.563 X 0.258 | 2.875 X 0.203 | 2.875 X 0.203 | 2.375 X 0.154 | 6.625 X 0.280 | 6.625 X 0.280 |
| 2 | 14.00 X 0.50 | 5.563 X 0.375 | 2.875 X 0.203 | 2.875 X 0.203 | 2.875 X 0.203 | 6.625 X 0.432 | 6.625 X 0.432 |
| 3 | 14.00 X 0.50 | 5.563 X 0.375 | 2.875 X 0.203 | 2.875 X 0.203 | 2.875 X 0.203 | 6.625 X 0.562 | 6.625 X 0.562 |

HOW TO USE TABLES:

- I. DETERMINE IF CANTILEVER IS GROUND MOUNTED OR STRUCTURE
- 2. FIND WIND VELOCITY USING WIND MAP ON GENERAL NOTES SHEET (SHT. NO. | OF | 16) AND CHOOSE APPROPRIATE ROW IN TABLE.
- 3. VERIFY THAT THE PROPOSED SIGN AREA DOES NOT EXCEED THE MAXIMUM ALLOWABLE AREA.
- 4. FIND CORRESPONDING GROUP NUMBER IN THE APPROPRIATE "CANTILEVER MEMBER SIZES" TABLE AND APPLY MEMBER SIZES ACCORDINGLY. FILL IN THE "CANTILEVER DATA TABLE" WITH THE APPROPRIATE DESIGN INFORMATION. (SHT NO. 12 OF 16)





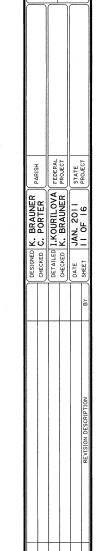
ALL MEMBERS LISTED IN THE CANTILEVER MEMBER SIZES TABLE SHALL BE STEEL PIPE OR TUBE AND SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 42 KSI.

TUBE OR A.N.S.I. PIPE SECTIONS PROVIDING EQUAL OR GREATER STRENGTH THAN ANY MEMBER DESIGNATED IN THE TABLE MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

ALL DESIGNS MUST BE CONFIRMED ON THE FABRICATION DRAWINGS AND APPROVED BY LA DOTD BEFORE FABRICATION IS INITIATED.

THE CAMBER VALUES LISTED IN THE TABLES ARE THEORETICAL VALUES ONLY. THE CONTRACTOR SHALL ENSURE THAT AFTER ERECTION OF THE SIGN TRUSS AND INSTALLATION OF THE SIGN PANELS, THE TRUSS SPAN DOES NOT DEFLECT BELOW HORIZONTAL.

- ⊕ A DESIGN REQUEST MUST BE SUBMITTED FOR ALL GROUND MOUNTED CANTILEVERS USED ON EMBANKMENTS ≥ 10 FT. HIGH.
- ☐ A DESIGN REQUEST MUST BE SUBMITTED FOR ALL STRUCTURE MOUNTED CANTILEVERS WHOSE SIGN CENTERS ARE MORE THAN 50 FT. ABOVE THE SURROUNDING GROUNDLINE.







DESIGN

CANTILEVER





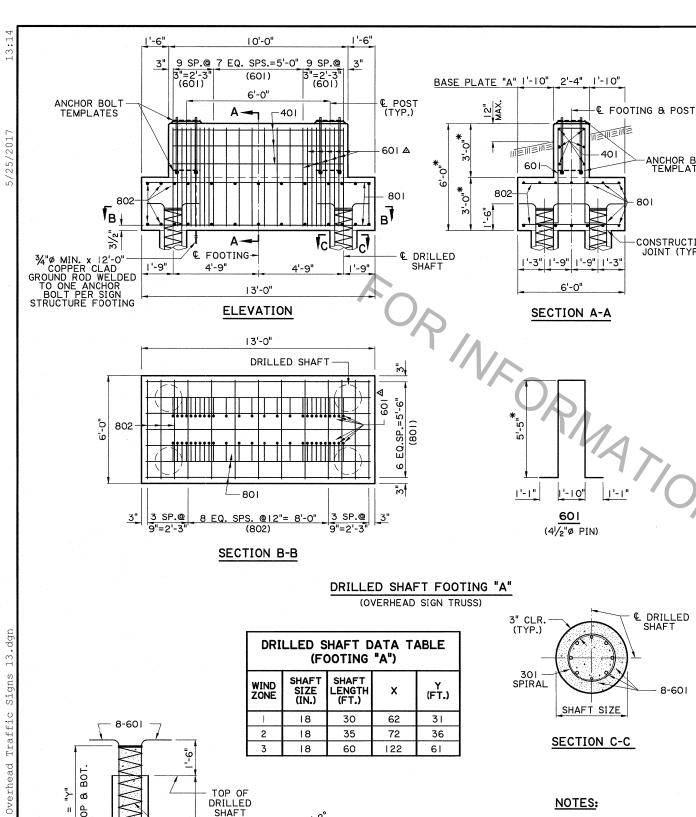
| OVERHEAD TRUSS DATA TABLE | | | | | | | | |
|---------------------------|------|--------------------------------------|---------------------------|-------------------------|----------------------------------|--------------|-----------------|--|
| SIGN NO. | STA. | MOUNTING TYPE (GROUND OR STR.) | WIND SPEED (M.P.H.) | SPAN LENGTH (FT.) | DESIGN SIGN AREA (SQ. FT.) | GROUP NO. | CAMBER (IN.) | |
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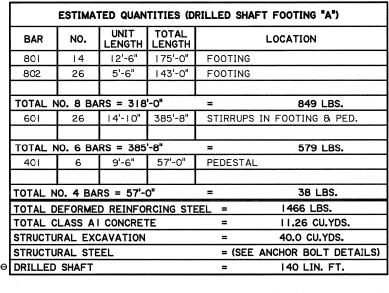
| SIGN NO. | STA. | MOUNTING TYPE (GROUND OR STR.) | WIND SPEED | SIGN AREA (SQ. FT.) | GROUP NO. | CAMBER (IN.) | | |
|---|------|--------------------------------------|---------------|------------------------|--------------|-----------------|---|--|
| NO. | | (GROUND OR STR.) | (M.P.H.) | (30. F1.) | NO. | Α | В | |
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OVERHEAD SIGN DATA TABLES
(STEEL)

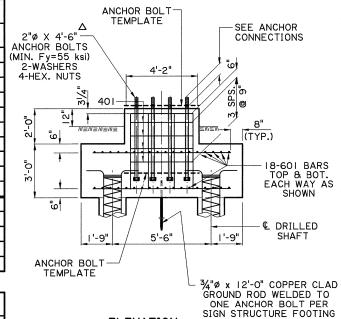




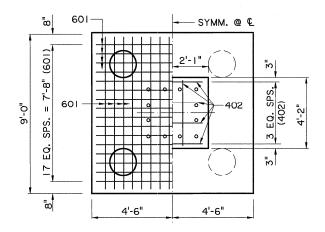


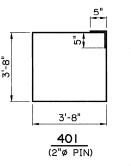
| ESTIMATED QUANTITIES (CANTILEVER SIGN TRUSS; ONE FOOTING) | | | | | | | |
|---|----------|----------------|-----------------|----------|---------------------|--|--|
| BAR | NO. | UNIT LENGTH | TOTAL LENGTH | | | | |
| 601 | 72 | 7'-8" | 552'-0" | FOOTING | | | |
| | | | | | | | |
| TOTAL N | 10. 6 BA | RS = 552 | '-0" | = | 829 LBS. | | |
| 401 | 4 | 15'-6" | 62'-0" | STIRRUPS | IN FOOTING & PED. | | |
| 402 | 6 | 14'-0" | 84'-0" | STIRRUPS | IN FOOTING & PED. | | |
| | | 100 | | | | | |
| TOTAL N | 0. 4 BAI | RS = 146' | -0" | = | 98 LBS. | | |
| TOTAL D | EFORME | D REINFO | RCING STE | EL = | 927 LBS. | | |
| TOTAL C | LASS A | CONCRE | TE | · = | 10.29 CU.YDS. | | |
| STRUCTU | RAL EXC | AVATION | | = | 34.7 CU.YDS. | | |
| STRUCTU | RAL STE | EL | | = (SEE | ANCHOR BOLT DETAILS | | |
| DRILLED | SHAFT | | | = | 120 LIN.FT. | | |

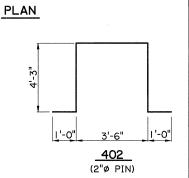
| | E | ESTIMATED QUANTITIES (ONE DRILLED SHAFT ; L = 35'-0") | | | | | | | | | | |
|---|---------|---|----------------|-----------------|----------------|--|--|--|--|--|--|--|
| | BAR | NO. | UNIT LENGTH | TOTAL LENGTH | LOCATION | | | | | | | |
| Ø | 601 | 8 | 37'-2" | 297'-4" | DRILLED SHAFT | | | | | | | |
| | | | | | | | | | | | | |
| | TOTAL N | 0. 6 BA | RS = 297' | -4" | = 447 LBS. | | | | | | | |
| ⊗ | 301 | 1 1 | 237'-3" | 237'-3" | SPIRAL | | | | | | | |
| | | | | | | | | | | | | |
| | TOTAL N | 10. 3 BA | RS = 237 | -3" | = 89 LBS. | | | | | | | |
| | TOTAL D | EFORME | D REINFO | RCING ST | EL = 536 LBS. | | | | | | | |
| | TOTAL C | LASS S | CONCRET | E | = 2.29 CU.YDS. | | | | | | | |



ELEVATION







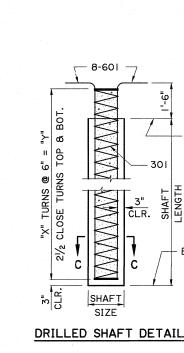
SHAFT

BRIDGE AND

DRILLED SHAFT CANTILEVER FOOTING



| | DRILLED SHAFT DATA TABLE (CANTILEVER FOOTING) | | | | | | | | | |
|---|---|---|----|-----|------------|--|--|--|--|--|
| | WIND ZONE | SHAFT SIZE (IN.) SHAFT LENGTH (FT.) | | × | Y (FT.) | | | | | |
| ı | 1 | 18 | 30 | 62 | 31 | | | | | |
| ı | 2 | 18 | 30 | 62 | 31 | | | | | |
| | 3 | 18 | 60 | 122 | 61 | | | | | |



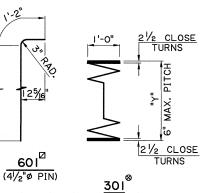
BOTTOM OF

DRILLED

SHAFT

2 1/2 CLC TURNS CLOSE

601[□]



NOTES:

THIS DRILLED SHAFT ALTERNATE IS ALLOWED IN LIEU OF TIMBER PILES AND IS A SUPPLEMENT TO PLAN SHEET NO. 8 OF 16.

FOR ANCHOR BOLT DETAILS, SEE TYPE I TRUSS & CANTILEVER DETAILS AND

ANCHOR BOLTS SHALL BE FURNISHED IN A PREPOSITIONED ANCHOR BOLT ASSEMBLY. (TWO TEMPLATES REQUIRED)

- * THESE DIMENSIONS MAY VARY ± ONE FOOT TO ADJUST ELEVATION FOR SITE ADJUST 401 & 601 BARS ACCORDINGLY.
- △ NO. 601 BARS MAY BE MOVED TO CLEAR TRUSS ANCHOR BOLTS.

-ANCHOR BOL⁻ TEMPLATES

-CONSTRUCTION
JOINT (TYP.)

© DRILLED SHAFT

8-601

- Θ WIND ZONE 2 ASSUMED FOR SHAFT QUANTITIES. FOR OTHER WIND ZONES, ADJUST QUANTITIES ACCORDINGLY. SEE DRILLED SHAFT DATA TABLES.
- ☑ IF A SPLICE IS REQUIRED, THE MINIMUM SPLICE LENGTH SHALL BE 2'-9".
- ⊗ IF A SPLICE IS REQUIRED, THE MINIMUM SPLICE LENGTH SHALL BE 1/2 TURNS.

34"Ø MIN. x 12'-0"
COPPER CLAD
GROUND ROD WELDED
TO ONE ANCHOR
BOLT PER SIGN
STRUCTURE FOOTING

1'-9"

4" 6" I-8" 3 EQ.

3'-10"

10'-0" 3" 9 SPS.@ 7 EQ.SPS.=5'-0" 9 SPS.@

3'-10"

ELEVATION

801

15'-0" (802 SPACED AS SHOWN) SECTION B-B

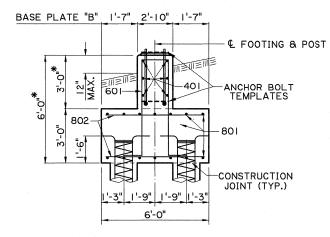
| 1'-8" | 3 EQ. | 1'-8" | 3 EQ. | 1'-8" | 6" | 4" SPS. = 2'-2"

€ POST (TYP.)

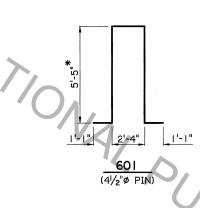
-60I^Δ

601 △

€ DRILLED SHAFT

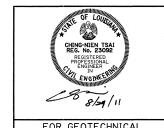


SECTION A-A



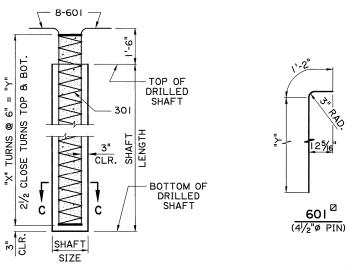
| | ESTIMATED QUANTITIES (DRILLED SHAFT FOOTING "B") | | | | | | | | |
|---|--|----------|-----------|-----------------|----------|----------------------|--|--|--|
| | BAR | | | TOTAL LENGTH | | LOCATION | | | |
| | 801 | 14 | 14'-6" | 203'-0" | FOOTING | | | | |
| | 802 | 32 | 5'-6" | 176'-0" | FOOTING | | | | |
| | | | | | | | | | |
| | TOTAL N | 10. 8 BA | RS = 379 | '-0" | | 1012 LBS. | | | |
| - | 601 | 26 | 15'-4" | 398'-8" | STIRRUPS | IN FOOTING & PED. | | | |
| | | | | | | | | | |
| | TOTAL N | 10. 6 BA | RS = 398 | '-8" | = | 599 LBS. | | | |
| | 401 | 6 | 9'-6" | 57'-0" | PEDESTAL | | | | |
| | | | 1 | | | | | | |
| | TOTAL N | 0. 4 BAI | RS = 57'- | 0" | = | 38 LBS. | | | |
| | TOTAL D | EFORME | D REINFO | RCING ST | EEL = | 1649 LBS. | | | |
| | TOTAL CLASS AT CONCRETE | | | | = | 13.15 CU.YDS. | | | |
| | STRUCTU | RAL EXC | CAVATION | | = | 45.0 CU.YDS. | | | |
| | STRUCTU | RAL STE | EL | | = (SEE | ANCHOR BOLT DETAILS) | | | |
| ∍ | DRILLED | SHAFT | | | = | 240 LIN. FT. | | | |

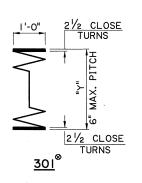
| - | ESTIMATED QUANTITIES (ONE DRILLED SHAFT; L = 30'-0") | | | | | | | | |
|---|--|----------|----------------|-----------------|-----------|--------------|--|--|--|
| | BAR | NO. | UNIT LENGTH | TOTAL LENGTH | | LOCATION | | | |
| Z | 601 | 8 | 32'-2" | 257'-4" | DRILLED S | HAFT | | | |
| | | | | | | | | | |
| | TOTAL N | 0. 6 BAI | RS = 257' | -4" | = | 387 LBS. | | | |
| 8 | 301 | 1 | 206'-5" | 206'-5" | SPIRAL | | | | |
| | | | | | | | | | |
| | TOTAL N | 0. 3 BA | RS = 206 | -5" | = | 78 LBS. | | | |
| | TOTAL D | EFORME | D REINFO | RCING STI | EEL = | 465 LBS. | | | |
| | TOTAL C | LASS S | CONCRETE | | = | I.96 CU.YDS. | | | |
| | TOTAL C | LASS S | CONCRET | E | = | 1.96 CU.YDS. | | | |



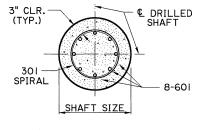
FOR GEOTECHNICAL INFORMATION ONLY

DRILLED SHAFT FOOTING "B" (OVERHEAD SIGN TRUSS)





| DRILLED SHAFT DATA TABLE (FOOTING "B") | | | | | | | | |
|--|------------------------|--------------------------|-----|------------|--|--|--|--|
| WIND ZONE | SHAFT SIZE (IN.) | SHAFT LENGTH (FT.) | × | Y (FT.) | | | | |
| | | N/A | | | | | | |
| 2 | 18 | 30 | 62 | 31 | | | | |
| 3 | 18 | 65 | 132 | 66 | | | | |



SECTION C-C

NOTES:

THIS DRILLED SHAFT ALTERNATE IS ALLOWED IN LIEU OF TIMBER PILES AND IS A SUPPLEMENT TO PLAN SHEET NO. 8 OF 16.

FOR ANCHOR BOLT DETAILS, SEE TYPE II TRUSS & CANTILEVER DETAILS AND THE GENERAL NOTES.

ANCHOR BOLTS SHALL BE FURNISHED IN A PREPOSITIONED ANCHOR BOLT ASSEMBLY. (TWO TEMPLATES REQUIRED)

- * THESE DIMENSIONS MAY VARY ± ONE FOOT TO ADJUST ELEVATION FOR SITE ADJUST 401 & 601 BARS ACCORDINGLY.
- △ NO. 601 BARS MAY BE MOVED TO CLEAR TRUSS ANCHOR BOLTS.
- ⊖ WIND ZONE 2 ASSUMED FOR SHAFT QUANTITIES. FOR OTHER WIND ZONES, ADJUST QUANTITIES ACCORDINGLY. SEE DRILLED SHAFT DATA TABLES.
- ☑ IF A SPLICE IS REQUIRED, THE MINIMUM SPLICE LENGTH SHALL BE 2'-9".
- ⊗ IF A SPLICE IS REQUIRED, THE MINIMUM SPLICE LENGTH SHALL BE 1½ TURNS.



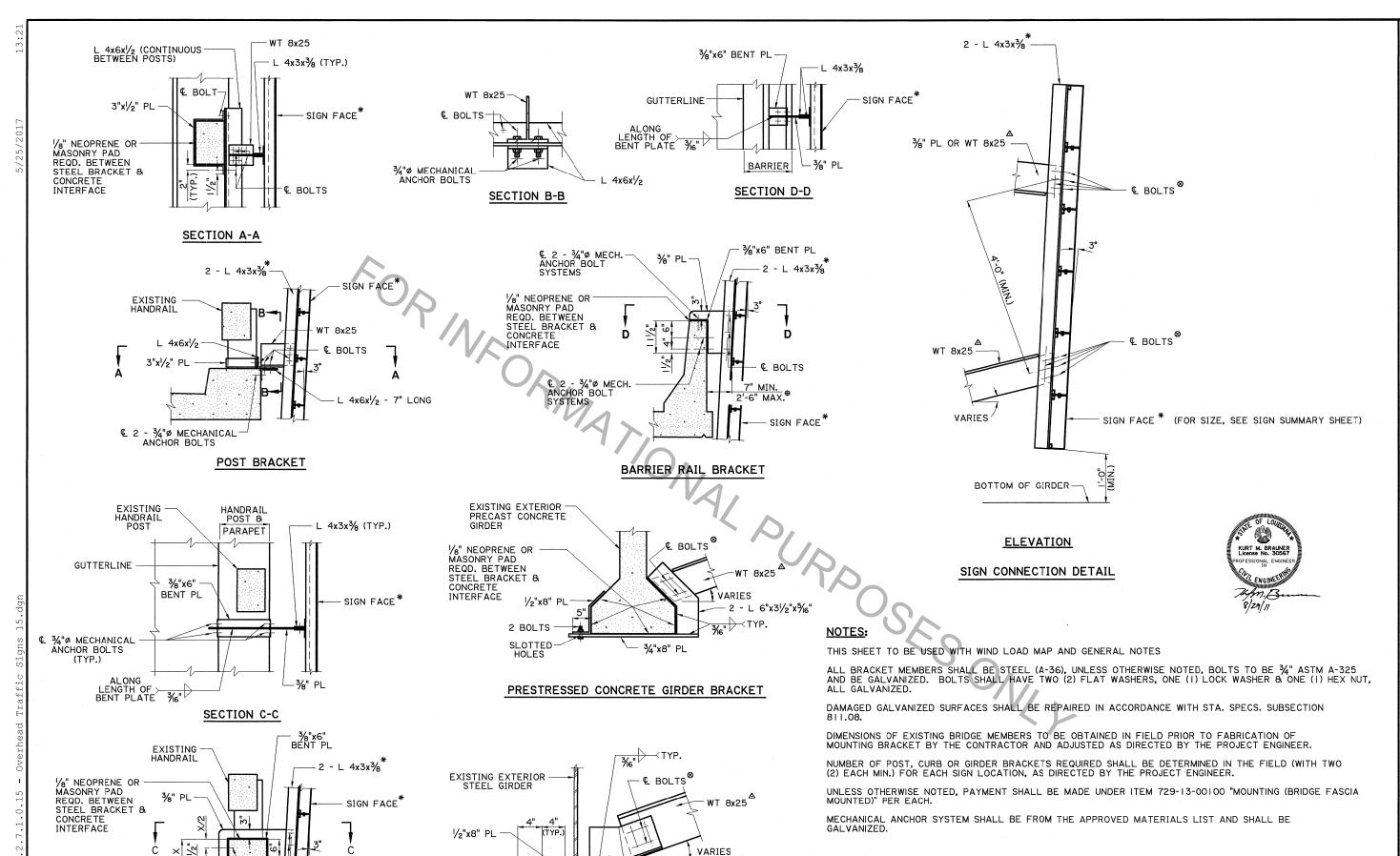
ALT. FOOTING

SHAFT



DRILLED SHAFT DETAIL

BRIDGE AND STRUCTURAL DESIGN



- L 6x31/2x5√6

1/8" BRASS WEDGES

STEEL GIRDER BRACKET

* PAYMENT TO BE UNDER ITEM 729-06-00100.

△ LENGTH VARIES.

⊗ SLOT ONE HOLE AND FIELD DRILL THE OTHERS

WHEN DIMENSIONS EXCEED 2'-6", SEE SIDEWALK BARRIER RAIL BRACKET DETAIL, SHEET 16 OF 16.

2 BOLTS

SLOTTED HOLES

2'-6" MAX.#

£ 2 - ¾"Ø MECH. ANCHOR BOLTS

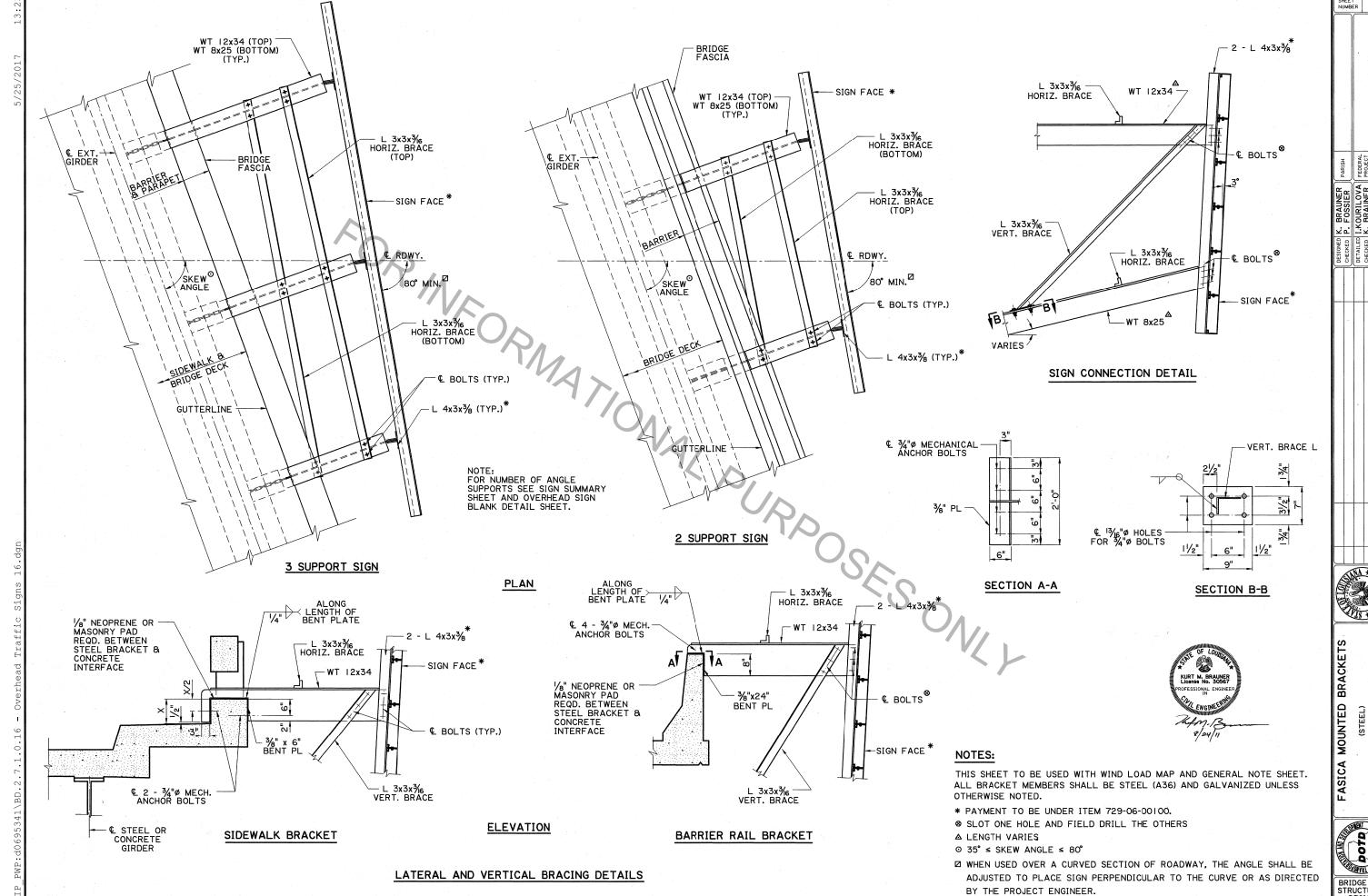
SIDEWALK BRACKET

MOUNTED BRACKETS
(STEEL)

FASCIA MOUNT

FASCIA N

BRIDGE AND



(STEEL)

pote BRIDGE AND STRUCTURAL DESIGN