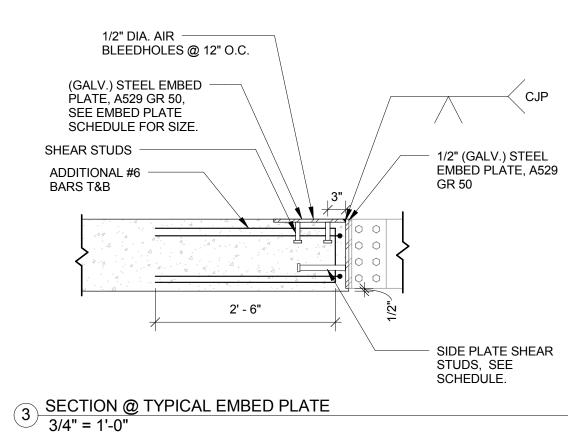


| KEN SMITH LANDSCAPE ARCHITECT<br>450 West 31st Street, 5th fl. New York, NY 10001<br>212-791-3595 kensmithworkshop.com | NO: | REVISIONS: | ENGINEERING<br>FOR ARCHITECTURE<br>WWW |  | THE NEW ST PETERSBURG PIER<br>CITY OF ST PETERSBURG<br>CITY PROJECT NO. 09227-019 | ENGINEERING and CAPITAL<br>IMPROVEMENTS DEPARTMENT<br>CITY of ST. PETERSBURG<br>APPROVED BY: | 100% CONSTRUCTION DOCUME<br>PAVILION AND EDUCATION<br>CENTER - CANOPY DETAILS |
|--|-----|------------|--|--|---|--|---|
|--|-----|------------|--|--|---|--|---|

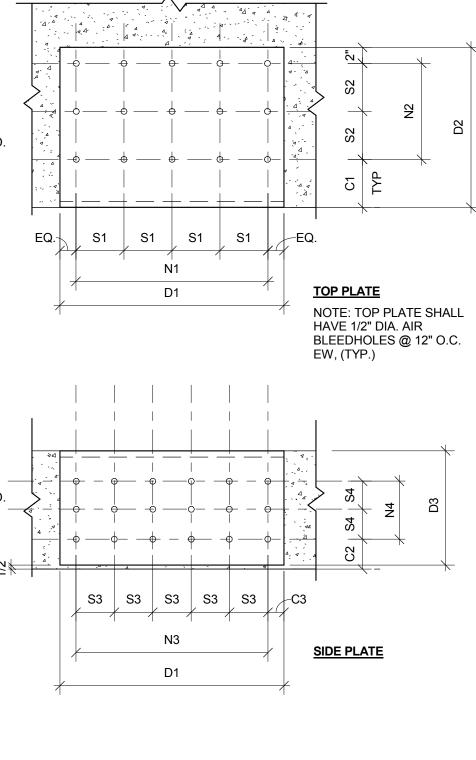


ANCHOR TYPE: 3/4" DIA. x 8" LONG, HEADED STUD. SIDE PLATE THICKNESS REF SCHEDULE

<u>ANCHOR TYPE</u>: 3/4" DIA. x 4" LONG, HEADED STUD. TOP PLATE THICKNESS: 3/4"

| CANOPY CONNECTION DESIGN - ULTIMATE LOADS |                  |           |                        |  |                                     |  |   |                   |
|---|------------------|-----------|------------------------|--|-------------------------------------|--|---|-------------------|
| BLDG                                      | KEY NOTE<br>MARK | DIM       | AXIAL C OR T<br>(KIPS) | MAJOR AXIS<br>SHEAR (+ OR -)<br>(KIPS) | MINOR AXIS SHEAR<br>(+ OR -) (KIPS) | MAJOR AXIS MOMENT<br>(+ OR -) (KIP-FT) | MINOR AXIS<br>MOMENT (+ OR -)<br>(KIP-FT) | TORSION           |
| PIERHEAD                                  | А                | TB 36X6   | 90                     | 250                                    | 20                                  | 1375                                   | 60  |                   |
| PIERHEAD                                  | В                | PL 36X3   | 220                    | 50                                     | -                                   | 1200                                   | -   | -                 |
| PIERHEAD                                  | С                | PL 18X1.5 | 95                     | 15                                     | -                                   | 80                                     | -   | -                 |
| PIERHEAD                                  | D                | VARIES    |                        |  | -                                   |  | -   | -                 |
| PAV/EDU                                   | 7                | 14X4.5    | 15                     | 35                                     | -                                   | 370                                    | -   | -                 |
| PAV/EDU                                   | 4                | 14X4      | 25                     | 40                                     | -                                   | 285                                    | -   | -                 |
| PAV/EDU                                   | 3                | 14X3      | 25                     | 20                                     |                                     | 185                                    |   |                   |
| PAV/EDU                                   | 2                | 14X2.5    | 40                     | 20                                     |                                     | 155                                    |   | REF PLAN FOR AREA |
| PAV/EDU                                   | 1                | 14X2      | 22                     | 15                                     |                                     | 65                                     |   |                   |
| PAV/EDU                                   | TYP              | 14/12X1.5 | 15                     | 15                                     |                                     | 70                                     |   |                   |
| PAV/EDU                                   | PERIMETER        | 14/12X1   | 3                      | 10                                     |                                     | 15                                     |   |                   |

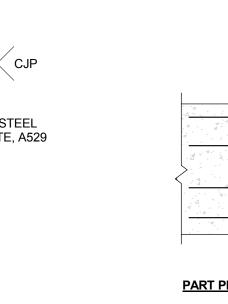
NOTES: 1. REF PLANS FOR ADDL INFORMATION NOT SHOWN 2. PAV = PAVILION; EDU = EDUCATION CENTER 3. C = COMPRESSION FORCE 4. T = TENSION FORCE

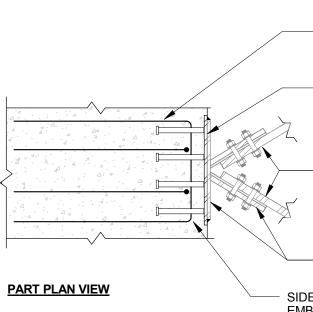


## **PAVILION - EMBED PLATE SCHED** CONNECTIONSIDE PLATE<br/>THICKNESSD1 (IN)D2 (IN)D3 (IN)N1N2N3N4S1 (IN)S2 (IN) MARK (IN) 60 36 13.5 6 4 16 1 11 10 А 2 48 30 13.5 5 3 12 1 11 11 В 2 48 30 13.5 5 3 12 1 11 2 11 D 1.5 40 36 13.5 5 3 10 1 9 14 20 12 13.5 4 2 5 1 4 6 E 1 F 3/4 16 12 11.5 4 2 4 1 4 6 G 36 - 24 - - 5 3 - -1.5 36 - 24 - 5 3 - -Н 1.5 48 - 24 - 7 3 - -1.5 J

NOTES: 1. EMBEDMENT PLATES TO FOLLOW PROFILE OF CORNER CONDITIONS WITH COMPLETE JOINT PENETRATION WELDS AT SPLICE JOINT. ADJUST HEADED STUDS AS REQUIRED TO AVOID INTERFERENCE AT CORNER CONDITION. 2. COVER ALL FIELD WELDS WITH GALV. PAINT. 3. \* INDICATES THAT C DIMENSION IS SHOWN ON DETAIL 4/S7.32

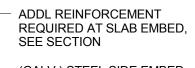
42 - 24 - - 4 3 - -





2 TYPICAL EMBED PLATE DETAIL @ B.O. SLAB 3/4" = 1'-0"

NOTE: COVER ALL FIELD WELDS WITH GALV. PAINT.



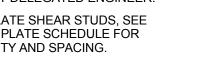
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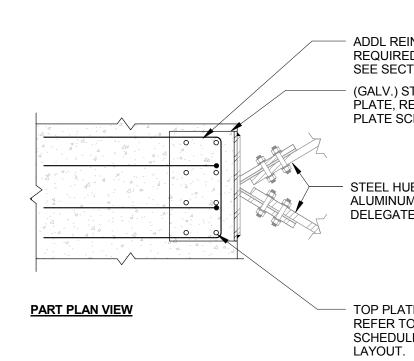
1.5

— (GALV.) STEEL SIDE EMBED
PLATE. REF TO EMBED PLATE
SCHEDULE FOR SIZE.

STEEL HUB CONNECTION TO ALUMINUM CANOPY BY DELEGATED ENGINEER.

(GALV.) STEEL CONNECTION PLATES BY DELEGATED ENGINEER. SIDE PLATE SHEAR STUDS, SEE EMBED PLATE SCHEDULE FOR QUANTITY AND SPACING.





TYPICAL EMBED PLATE DETAIL @ T.O. SLAB 3/4" = 1'-0" NOTE: COVER ALL FIELD WELDS WITH GALV. PAINT.

| Ľ | DULE    |         |         |        |        |  |  |  |
|---|---------|---------|---------|--------|--------|--|--|--|
|   | S3 (IN) | S4 (IN) | C1 (IN) | C2(IN) | C3(IN) |  |  |  |
|   | 3.5     | -       | 6       | 4      | 3.75   |  |  |  |
|   | 4       | -       | 6       | 4      | 2      |  |  |  |
|   | 4       | -       | 6       | 4      | 2      |  |  |  |
|   | 4       | -       | 6       | 4      | 2      |  |  |  |
|   | 4       | -       | 4       | 4      | 2      |  |  |  |
|   | 4       | -       | 4       | 3.5    | 2      |  |  |  |
|   | 7       | 9       | -       | 3      | *      |  |  |  |
|   | 7       | 9       | -       | 3      | *      |  |  |  |
|   | 6.5     | 9       | -       | 3      | *      |  |  |  |
|   | 9       | 9       | -       | 3      | *      |  |  |  |

\_\_\_\_\_

 ADDL REINFORCEMENT REQUIRED AT SLAB EMBED, SEE SECTION (GALV.) STEEL TOP EMBED
PLATE, REFER TO EMBED
PLATE SCHEDULE FOR SIZE.

STEEL HUB CONNECTION TO ALUMINUM CANOPY BY DELEGATED ENGINEER.

- TOP PLATE SHEAR STUDS. REFER TO EMBED PLATE SCHEDULE FOR ANCHOR

> TO THE BEST OF THE STRUCTURAL ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM CODES AS DETERMINED BY LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTER 553, FLORIDA STATUES.

| ENTS | ISSUE DATE: 05.19.2017 |             |  |  |
|------|------------------------|-------------|--|--|
|      | DRAWN BY:              | CHECKED BY: |  |  |
| .1   | Author                 | Checker     |  |  |
| N    | COSP DWG #: 11063-     |             |  |  |
| S    | <b>S7</b>              | 32          |  |  |
|      |                        |             |  |  |