GENERAL NOTES:

1. STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION AND AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

2. STEEL SHALL CONFORM TO ASTM A500 GRADE B FOR STRUCTURAL TUBING AND ASTM A53 GRADE B FOR PIPE. ALL OTHER STEEL SHALL BE ASTM A36 U.N.O.

3. ALL BOLTS SHALL BE 3/4" A325 U.N.O.

4. ALL BOLTED CONNECTIONS SHALL BE "SNUG TIGHT". (Snug tight is defined as the "fullest effort of a worker with an ordinary spud wrench": re AISC Handbook #SBH-1, pg. 56). UPSET THREADS AFTER TIGHTENING.

5. ANCHOR BOLT TOLERANCES SHALL BE PER AISC CODE OF STANDARD PRACTICE SECTION 7.5.

6. ALL SHOP WELDS SHALL BE E71T-1 FCAW OR E7018 PER AWS D1.1-LATEST EDITION.

7. ALL FIELD WELDS (IF REQUIRED) SHALL BE E7018 OR NR-211-MP PER AWS D1.1-LATEST EDITION. TOUCH UP PAINT AFTER WELDING.

8. PRIME PAINT SHALL BE 1 S/C DEVOE CATHA-COAT 302H, DFT 2.0-2.5 MILS. PER SSPC SP6 FOR COLUMNS OR POSTS, SSPC SP7 FOR DECK, AND SSPC SP2 FOR ALL ELSE.

9. FINISH PAINT SHALL BE 1 S/C DEVOE DEVTHANE ALIPHATIC URETHANE SEMI-GLOSS ENAMEL #378 OR EQUAL, DFT 2.0-3.0 MILS.

10. ROOF TO BE SHOP ASSEMBLED.
BRADLEY ELEMENTARY SCHOOL
SHADE STRUCTURE
ELEVATIONS

FINAL RELEASED FOR CONSTRUCTION 4/3/2008
BRADLEY ELEMENTARY SCHOOL
SHADE STRUCTURE
PLAN VIEW

CUSTOM SHADE STRUCTURE
BRADLEY ELEMENTARY SCHOOL
DENVER PUBLIC SCHOOLS

PIPE 8" STD.
3m2

PIPE 8" STD.
3m1

PIPE 8" STD.
3m3

TS 4x2x3/16
3t4

TS 4x2x3/16
3t5

TS 4x2x3/16
3t3

TS 4x2x3/16
3t2

TS 4x2x3/16
3t1

101.15°

101.15°

101.15°

COLUMN ASSEMBLY
SHIP MARK
A2

COLUMN ASSEMBLY
SHIP MARK
A2

COLUMN ASSEMBLY
SHIP MARK
A2

COLUMN ASSEMBLY
SHIP MARK
A2

FINAL RELEASED FOR CONSTRUCTION 4/3/2008
<table>
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<th>TEMP</th>
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<td>1p1</td>
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**SECTION A-A**

**2-COLUMN ASSEMBLY MK A1**

---

**FINAL RELEASED FOR CONSTRUCTION 4/3/2008**
### Parts List for Column Assembly A2

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### Section A-A

**2~COLUMN ASSEMBLY MK A2**

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**FINAL RELEASED FOR CONSTRUCTION 4/3/2008**

**PAGE 7 / 15**
Parts List

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Dimensions:
- O1 1/16 in (0.015")
- Typical of 4 structures

CUSTOM SHADE STRUCTURE
BRADLEY ELEMENTARY SCHOOL
DENVER PUBLIC SCHOOLS

DESIGNER: SWM
CHECKER: T.D.
SHEET: 1p1

DATE: 4/3/2008
REVISION: 0

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BURNOUT FILE: 1494-3p1
SEE SHEET E1 FOR ADDITIONAL DETAILS.

PERF PLATE DETAILS
MATERIAL THICKNESS - 3/16"
HOLE SHAPE - ROUND
PERF ERATION SIZE - Ø1/2"
HOLE CENTER TO CENTER - 1"
STAGGERED CENTERS, 60°
BAR WIDTH - 1/2"
HOLE PSI - 1.2
PERCENT OPEN - 23%

PERF PLATE SECTIONS REQUIRED:
5 PIECES, 4'-0" x 13'-2 3/16"
2 PIECES, 2'-10" x 13'-2 3/16"

ATTACH END PERF PLATES, THEN SNAP A CHALK LINE AND TORCH CUT. CLEAN CUT EDGES. TYPICAL BOTH SIDES.

SECURELY ATTACH PERF PLATES TO TS 4x2 PURLINS BY USING HOLES IN PERF PLATE TO PLUG WELD PLATES TO TUBE STEEL. MINIMUM 1 PLUG WELD PER ONE FOOT OF PURLIN LENGTH (EACH PURLIN).

PERF PLATE DETAILS
MATERIAL THICKNESS - 3/16"
HOLE SHAPE - ROUND
PERF ERATION SIZE - Ø1/2"
HOLE CENTER TO CENTER - 1"
STAGGERED CENTERS, 60°
BAR WIDTH - 1/2"
HOLE PSI - 1.2
PERCENT OPEN - 23%