CUSTOMER MUST HAVE PART NUMBER WHEN ORDERING ITEMS THROUGH THE SERVICE DEPARTMENT.

IF FURTHER HELP IS NEEDED CONTACT A FAIR-PLAY SERVICE REP IN YOUR FAIR-PLAY DEALER ORGANIZATION OR PHONE THE FAIR-PLAY HELP DESK AT (800) 462-2716.

TO AID YOU IN YOUR DISCUSSIONS WITH SERVICE REPS, WE SUGGEST THAT YOU RECORD THE FOLLOWING:

MODEL NUMBER:_______________________________________________________________________________

FAIR-PLAY SALES ORDER NUMBER:
(THIS NUMBER IS FOUND IN THE UPPER RIGHT HAND CORNER OF THE PACKING SLIP AND INVOICE.)

INSTALLATION DATE:____________________________________________________________________________

WARRANTY: A COPY OF THE FIVE-YEAR LIMITED WARRANTY IS ENCLOSED.
### FAIR-PLAY SCOREBOARDS

**DES MOINES, IOWA**

**INSTRUCTION DRAWING LIST**

**STANDARD BASEBALL LED SCOREBOARDS**

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LOCATION - The scoreboard may be positioned to face any direction so that the spectators and the operator can see it. For maximum visibility, place it at a south or west end of the field so that the sun does not shine directly on the face of the board during afternoon games.

ERECTION - The scoreboard is usually mounted on either two, three, or four columns, spaced as shown on the installation drawing enclosed. Steel columns set in concrete are recommended, but other types of supports may be used. The size of the columns and concrete bases shown are designed to withstand 80 mph winds in average soil with allowable stresses of 2500 PSF. The design should be altered to take into account your soil conditions; the height of the scoreboard above the ground; and to comply with local codes which specify wind load requirements, etc.

The weight and dimensions of your scoreboard are also shown on the installation drawing. The scoreboard can be easily lifted into place using a crane or boom truck such as used by utilities and sign companies. U-bolts or eyebolts are included on the top edge of the board. Hook the slings or spreader bar cables into these bolts when lifting the board. The eyebolts may be removed after the scoreboard is secured to the supports. **Caution: If eyebolts are removed, plug open holes in scoreboard or water damage will occur and warranty will be void.** The board is to be bolted or welded to the supports at each hanger position.

- **Water Ingress:** No additional penetrations may be created in the product unless they are sealed per Nema 4 Standard. All field penetrations must be tested using a stream of water poured from a container located not less than 6” away horizontally. Warranty will be void if this testing is not completed during installation, or if there is water ingress from field modifications. Any cabinets located above the product must not allow water to build up and then flow through conduits into the product. Penetrations between product and higher cabinets must be sealed between the cabinet internal spaces using water tight cable to conduit seals. Holes remaining from eye bolt removal must be filled, sealed and tested.

- **Ventilation:** Install product so that air flow is not restricted. Customer’s structure must allow for the free flow of outside ambient air to the product, without recirculation of air. Warranty will be void if components fail due to air flow restrictions.

POWER - Your scoreboard is wired for connection to a 120 VAC single phase; two wire grounded power supply at the scoreboard.

**Total power required, when all LED’s or lamps are turned on, is listed on the identification label provided with your scoreboard. Wire size should be determined by a local electrician typically determined by both load and wire lengths.**

A fused disconnect is required and is usually mounted on one of the support columns within view of the scoreboard face.

All split cabinets require wires be routed to the customer hook-up location to operate all sections.

CONTROL CABLE - A single two wire shielded control cable is required from the point where the control is located, to the junction box in the scoreboard. It should be installed in conduit (1/2” or larger) for mechanical protection. Care should be taken when soldering the cable to the control connectors.

GROUND WIRE - The proper grounding of the electrical circuits and the scoreboard structure are important aspects of any installation. Refer to drawing E-6-4923 for suggestions on grounding the circuits in accordance with the National Electric Code.

CONTROL - A control console is supplied complete with a power cable and a control cable to connect the control to the receptacle box. A 120 volt two wire grounded outlet is required, which should be a DEDICATED CIRCUIT at the scoreboard control point. Battery operation available.

The control must be operated and stored in a dry location.
HORN - (Optional) Horns are shipped separate and installed by customer. Ref. 98-0020-01 for horn installation instructions.

Horns should not be supplied by others and attached to the scoreboard without the written approval of the Fair-Play Engineering Department. Electrical loads imposed by unauthorized horns may damage the circuits and nullify the warranty. NOTE: Horns are not available on all models.

If you need additional help, contact a Service Rep in your Fair-Play dealer organization or phone the Fair-Play Help Desk (800) 462-2716.
DESIGN CRITERIA:

1. COGS
UNIFORM BUILDING CODE 1987
AMERICAN CONCRETE INSTITUTE 318-88
AMERICAN INSTITUTE OF STEEL CONSTRUCTION - AISC 1989

2. LATERAL LOADS:
BASE WIND SPEED: 80 MPH
EXPOSURE: C
DESIGN WIND PRESSURE: 0.06 psf

GENERAL NOTES:
1. THESE CONTRACTSTRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OR MEANS OF CONSTRUCTION.
2. TRANSLUX CORPORATION AND OR ANY OF ITS SUBSIDIARIES ASSUMES NO RESPONSIBILITY FOR WORK COMPLETED BY OTHERS.
3. FIELD VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND ELIMINATION SHOWN ON THE DRAWINGS. ALLE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
4. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW OR RECORD SHALL BE THE RESPONSIBILITY OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF INSTALLATION.

CONSTRUCTION PROCEDURES AND SAFETY REQUIREMENTS:
1. COMPLY WITH ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL LAWS AND REGULATIONS ADOPTED PURSUANT THERETO.
2. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKER AND OTHER PERSONS DURING CONSTRUCTION. PROVIDE ALL NECESSARY MEASURES TO AVOID EXCESSIVE STRESSES AND TO PROTECT THE STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. SUCH MEASURES MUST INCLUDE, BUT NOT BE LIMITED TO, BRACING SHORING FOR CONSTRUCTION EQUIPMENT, SCAFFOLDING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND MIMETIC OUTGAGING, ETC.

CONCRETE AND REINFORCING STEEL:
1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) PUBLICATIONS, ACI 301, ACI 318, ACI 302, ACI 314, ACI 313, AND OTHERS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPACTION STRENGTH OF 3000 P.S.I. AT 28 DAYS.
3. CONCRETE SHAL CONSIST OF THE FOLLOWING:
ACI 305 TYPE 1 PORTLAND CEMENT
ACI 305 C33 NORMAL WEIGHT AGGREGATLES
NO CHLORIDES SHALL BE ALLOWED IN THE CONCRETE mix.
4. CONCRETE THAT WILL BE SUBJECTED TO REPEATED FROZEN-MELT CYCLES DURING THE STRUCTURE'S LIFE SHALL HAVE WATER-CEMENT RATIO NO EXCEEDING 6 GALLONS PER BAG AND SHALL CONTAIN SULPHUR DIOXIDE AND SULPHUR ICHELORIDE FOR ADDITIONAL REQUIREMENTS.
5. MECHANICALLY VIBRATE CONCRETE AT TOPS OF DRILLED PIERs.

STRUCTURAL STEEL:
1. STRUCTURAL STEEL MATERIAL SHALL BE:
ASTM A572, GRADE 50, ROLL IN GRADE COLUMN
A36 CONNECTION MATERIAL AND STEEL PLATE
A36 ROLLED SECTIONS AND PLATE
2. STRUCTURAL STEEL DETAIL, FINISHING, AND FREQUENCY SHALL COMPLY WITH THE AISC MANUAL OF STEEL CONSTRUCTION - A500 LAST EDITION, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. ALL STRUCTURAL TANGENTS SHALL BE COVERED WITH STAINLESS STEEL CAPS.
4. ALL NEW STEEL TO BE PRIMED AND PAINTED WITH AN APPROVED COLOR.
5. ALL WELDS SHALL BE DONE BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPE OF WELDING CALLED FOR, CERTIFICATE SHALL BE NOT MORE THAN 6 MONTHS OLD AND SHALL BE ISSUED BY AN ACCEPTABLE TESTING AGENCY.
6. ALL WELDS SHALL BE BURST EDCUTES, AND SHALL BE PRIMED AND PAINTED WITH AN APPROVED COLOR.
7. UNLESS OTHERWISE NOTED, ALL WELDS SHALL BE CONTINUOUS WELD EDCUTES. ALL FULL AND PARTIAL PENETRATION WELDS SHALL BE FULLY DETAILLED IN THE SHOP DRAWINGS.

DRILLED PIERs:
1. SOIL IS ASSUMED TO BE AVERAGE WITH MAXIMUM ALLOWABLE LATERTAL BEARING STRESS OF 150 PSQFT AND MAXIMUM ALLOWABLE AXIAL BEARING STRESS OF 1500 PSQFT.
3. ALL DRILLED PIERs SHALL BE ON AN UNEQUIPPED SOIL.
4. PROVIDE FOR DRAINING AT ELEVATIONS ON EITHER SURFACE WATER OR SEEPAGE.
6. CONCRETE SHALL BE PLACED IMMEDIATELY AFTER SHAPES ARE CLEANED. DATA IS RECORDED AND APPROVAL OF BEARING SURFACES IS OBTAINED. EXCAVATIONS SHALL BE LEFT OPEN OVERNIGHT.
7. BEARING CAPACITY SHALL BE CERTIFIED BY THE ON-SITE SOILS TESTING AGENCY. REMOVAL OF DEBRIS FROM THE BOTTOM OF THE SHAPES SHALL BE DONE BY A MECHANICAL HAMMER AND NOT BY THE WORK OR THE Contractors PERSONNEL. AT NO TIME SHALL ANY FIELD PERSONNEL ACCESS DRILLED PIER EXCAVATIONS.
8. ALL PIERs SHALL BE CENTERED UNDER COLUMNS.
**DESIGN CRITERIA:**

1. **COBAC**
   - LINCOLN BUILDING CODE 1967
   - AMERICAN CONCRETE INSTITUTE: 1969
   - AMERICAN INSTITUTE OF STEEL CONSTRUCTION - 1969

2. **LATERAL LOADS**
   - SEISMIC ZONE 3
   - BASIC WIND SPEED: 80 MPH
   - BANDAGE A-C
   - DESIGN WIND PRESSURE: 30.0 psf

**GENERAL NOTES:**

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MACHINES OR METHODS OF CONSTRUCTION.
2. TRANSAX ESTATE CORPORATION AND OR ANY OF ITS SUBSIDIARIES ASSUMES NO RESPONSIBILITY FOR WORK COMPLETED BY OTHERS.
3. FIELD VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND ELEVATION SHOWN ON THE DRAWINGS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
4. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW OR REVISION SHALL BE MADE BY AND/or PERSONNEL OF A PROFESSIONAL, STRUCTURAL ENGINEER LICENSED IN THE STATE OF INSTALLATION.

**CONSTRUCTION PROCEDURES AND SAFETY REQUIREMENTS:**

1. COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS ADOPTED OR ENACTED THEREUNDER.
2. PROVIDE ALL MEASURES TO PROTECT THE WORKER AND OTHER PERSONS DURING CONSTRUCTION. PROVIDE ALL NECESSARY MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD THE STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, WIRING FOR CONSTRUCTION EQUIPMENT; SCARPING; SAFETY BARS; SUPPORT AND BRACING FOR CRAWLS AND ROPER OUTDOOR, ETC.
3. **CONCRETE AND REINFORCING STEEL:**
   - ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 301, ACI 311, ACI 318, ACI 437, ACI 314; UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   - ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMpressive STRENGTH OF 3000 PSI AT 28 DAY TEST.
4. **CONCRETE SHALL CONSIST OF THE FOLLOWING:**
   - ASSUMPTION: TYPE I PORTLAND CEMENT
   - ADJ. 203: NORMAL WEIGHT AGGREGATES
   - NO CEMENT DUST ALLOWED IN THE CONCRETE.
5. **CONCRETE THAT WILL BE SUBJECTED TO REPEATED STATIC LOAD CYCLES DURING THE STRUCTURE'S LIFE SHALL HAVE A WATER-REDUCED NO EXCEEDING 6 GALLONS PER BAG AND SHALL CONTAIN CONCRETE, ADJ. 203 FOR ADDITIONAL REQUIREMENTS.
6. **MECHANICALLY VIBRATED CONCRETE AT TOPS OF DRILLED PIPPERS**

**STRUCTURAL STEEL:**

1. **STRUCTURAL STEEL MATERIAL:**
   - ANGLES (2.9): ROLLED IN 5/8" HAP SUMS
   - A36 CONNECTION MATERIAL AND STEELPLATE
   - A36 ROLLED BEAM AND PLATE
2. **STRUCTURAL STEEL DETAILS:**
   - FABRICATION AND ERECTION SHALL CONFORM TO THE American Manual of STEEL Construction - 1969 LATEST EDITION, UNLESS OTHERWISE SHOWN OR SPECIFIED.
3. **ALL STRUCTURAL CONNECTIONS TO BE COVERED WITH LIGHT-GAGE END CAPS.**
4. **ALL NEW STEEL TO BE PRIMED AND PAINTED WITH AN APPROVED COLOR.**
5. **ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPE OF WELDING CALLED FOR. CERTIFICATES SHALL BE NOT MORE THAN 6 MONTHS OLD AND SHALL BE SHOWN TO THE ACCEPTABLE TESTING AGENCY.**
6. **ALL WELDING SHALL BE REWORKED, AND ALL JOINTS SHALL BE PRIMED AND PAINTED WITH AN APPROVED COLOR.**
7. **UNLESS OTHERWISE NOTED, ALL WELDS SHALL BE CONTINUOUS 1/4" PULLED WELDS. ALL FULL AND PARTIAL PULLED WELDS SHALL BE FULLY DETAINED IN THE SHOP DRAWINGS.**
8. **ALL FIELD WELDING SHALL BE PERIODICALLY INSPECTED AND CERTIFIED BY A QUALIFIED INDEPENDENT TESTING FIRM AS CALLED FOR UNDER THE "SPECIAL INSPECTION" PORTION OF THE UNIFORM BUILDING CODE, 1987.**

**DRILLED PIPPERS:**

1. **SOIL IS ASSUMED TO BE FREE OF MATERIAL WITH MAXIMUM ALLOWABLE LATERAL SHEARING STRESS OF 1000 PSF AND MAXIMUM ALLOWABLE VERTICAL SHEARING STRESS OF 1500 PSF.**
2. **ALL DRILLED PIPPERS SHALL BE PLACED ON AN UNDISTURBED SOIL.**
3. **PROVIDE PROTECTIVE LINING AT EXCAVATIONS FROM EXCESS SURFACE WATER OR SUBSOIL.**
5. **CONCRETE SHALL BE PLACED IMMEDIATELY AFTER SHEETS ARE CLEANED. DATA IS RECORD AND APPROVAL OF SHEARING SURFACE IS OBTAINED. EXCAVATIONS SHALL NOT BE LEFT OPEN OVERNIGHT.**
6. **DRILLED CAPACITY SHALL BE DETERMINED BY THE CONTRACTING TESTING AGENCY, REMOVAL OF DRAINS FROM THE BOTTOM OF THE SHEET SHALL BE DETERMINED BY MATHICAL METHODS AND NOT BY THE EXCAVATORS PERSONNEL. AT THE TIME OF ANY FIELD PERSONNEL, ACCESS DRILLED PIPPERS EXCAVATIONS, ALL DRILLED PIPPERS SHALL BE CENTERED UNDER COLUMN.**
7. **FULL DRILLED PIPPERS INSTALLATIONS AND CONCRETE PLACEMENT SHALL BE INSPECTED AND CERTIFIED BY A QUALIFIED SPECIAL INSPECTOR AS CALLED FOR UNDER THE "SPECIAL INSPECTION" PORTION OF THE UNIFORM BUILDING CODE, 1987.**

01-2019-02 REVISED 07-01/03
DESIGN CRITERIA:

1. COC
UNIFORM BUILDING CODE 1987
AMERICAN CONCRETE INSTITUTE 1995-85
AMERICAN INSTITUTE OF STEEL CONSTRUCTION 1989

2. LATERAL LOADS:
BASE WIND PRESSURE: 60 MPH
EXPOSURE C
WIND SPEED: 70 MPH

GENERAL NOTES:
1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE THEY DO NOT INDICATE THE METHODS OR METHODS OF CONSTRUCTION.
2. ALL STRUCTURAL DRAWINGS AND SPECIFICATIONS SHALL BE CONFORMED TO THE AISC "MANUAL OF STEEL CONSTRUCTION" 7.7.1.6.2. UNLESS OTHERWISE SHOWN OR SPECIFIED.
3. ALL STRUCTURAL TUBES TO BE COVERED WITH LIGHT GAUGE CANG
4. ALL STEEL TO BE PRIMED AND PAINTED WITH AN APPROVED COLOR.
5. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING Called FOR. CERTIFIED WELDERS SHALL NOT BE MORE THAN 6 MONTHS OLD AND SHALL NOT BE ISSUED BY AN APPROVED TESTING AGENCY.
6. ALL WELDS SHALL BE INSPECTED AND PAINTED WITH AN APPROVED COLOR.
7. ALL STRUTS ARE TO BE CONTINUOUS WF 100 WELDS. ALL FULL AND PARTIAL PENETRATION WELDS SHALL BE FULLY INSPECTED ON THE SHOP DRAWINGS.
8. ALL FIELD WELDING SHALL BE PERIODICALLY INSPECTED AND CERTIFIED BY AN INDEPENDENT TESTING AGENCY AS CALLED FOR UNDER THE "SPECIAL INSPECTIONS" PORTION OF THE UNIFORM BUILDING CODE 1987.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL MATERIAL SHALL BE:
ASTM A36 ROLLED AND WELDED
ASTM A527 ROLLED IN SHEET AND PLATE
ASTM A572 ROLLED IN BAR AND PLATE
ASTM A588 ROLLED IN STRIP AND PLATE

2. STRUCTURAL STEEL CONSTRUCTION AND DETAILING SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION" 7.7.1.6.2. UNLESS OTHERWISE SHOWN OR SPECIFIED.
3. ALL WELDS SHALL BE INSPECTED AND PAINTED WITH AN APPROVED COLOR.
4. ALL WELDS SHALL BE INSPECTED AND PAINTED WITH AN APPROVED COLOR.
5. ALL WELDS SHALL BE INSPECTED AND PAINTED WITH AN APPROVED COLOR.
6. ALL FIELD WELDING SHALL BE PERIODICALLY INSPECTED AND CERTIFIED BY AN INDEPENDENT TESTING AGENCY AS CALLED FOR UNDER THE "SPECIAL INSPECTIONS" PORTION OF THE UNIFORM BUILDING CODE 1987.

DRILLED PIER:

1. SOIL IS ASSUMED TO BE AVERAGE WITH MAXIMUM ALLOWABLE LATERAL BEARING STRESS OF 150 PSF AND MAXIMUM ALLOWABLE AxIAL BEARING STRESS OF 1800 PSF.
2. ALL DRILLED PIERS SHALL BE CAPABLE OF BEARING ON AN UNEARTHED SOIL.
3. PROVIDE FOR SUMPING AT BASE OF EACH LEVEL TO PROTECT ENVIRONMENT.
4. PROVIDE FOR SUMPING AT BASE OF EACH LEVEL TO PROTECT ENVIRONMENT.
5. ELEVATION OF THE BOTTOM OF EACH DRILLED PIER IS APPROXIMATELY 8' BELOW THE GRADE TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
6. CONCRETE MUST BE PLACED IMMEDIATELY AFTER SHANKS AND CAPS ARE PLACED AND THE ACTUAL ELEVATION OF THE DRILLED PIER TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
7. CONCRETE MUST BE PLACED IMMEDIATELY AFTER SHANKS AND CAPS ARE PLACED AND THE ACTUAL ELEVATION OF THE DRILLED PIER TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
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9. CONCRETE MUST BE PLACED IMMEDIATELY AFTER SHANKS AND CAPS ARE PLACED AND THE ACTUAL ELEVATION OF THE DRILLED PIER TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
10. CONCRETE MUST BE PLACED IMMEDIATELY AFTER SHANKS AND CAPS ARE PLACED AND THE ACTUAL ELEVATION OF THE DRILLED PIER TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
11. CONCRETE MUST BE PLACED IMMEDIATELY AFTER SHANKS AND CAPS ARE PLACED AND THE ACTUAL ELEVATION OF THE DRILLED PIER TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
12. CONCRETE MUST BE PLACED IMMEDIATELY AFTER SHANKS AND CAPS ARE PLACED AND THE ACTUAL ELEVATION OF THE DRILLED PIER TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
13. CONCRETE MUST BE PLACED IMMEDIATELY AFTER SHANKS AND CAPS ARE PLACED AND THE ACTUAL ELEVATION OF THE DRILLED PIER TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
14. CONCRETE MUST BE PLACED IMMEDIATELY AFTER SHANKS AND CAPS ARE PLACED AND THE ACTUAL ELEVATION OF THE DRILLED PIER TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
15. CONCRETE MUST BE PLACED IMMEDIATELY AFTER SHANKS AND CAPS ARE PLACED AND THE ACTUAL ELEVATION OF THE DRILLED PIER TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
16. CONCRETE MUST BE PLACED IMMEDIATELY AFTER SHANKS AND CAPS ARE PLACED AND THE ACTUAL ELEVATION OF THE DRILLED PIER TO BE VERIFIED BY THE ON-SITE SOIL TESTING AGENCY.
Your Fair-Play scoreboard, when installed as directed by the installation instructions, is designed and constructed to withstand normal environmental conditions. Because of its seasonal usage, particularly outdoor football and baseball scoreboards, long life with minimum service can be expected by caring for the scoreboard during off-season.

OFF-SEASON PREVENTATIVE MAINTENANCE PROCEDURES CAN INCLUDE:

1.) Small scoreboards and portable scoreboards can be disconnected and removed from their supports and stored in an indoor location.

2.) Controls should be unplugged, placed in their carrying cases and stored in a dry location of moderate temperatures.

3.) The processors in outdoor scoreboards will benefit by their removal and storage in a dry location of moderate temperature. When left in the scoreboard they are subject to vandalism and damage from various types of weather, including lightning.

IF IT IS NOT PRACTICAL TO REMOVE THE PROCESSOR, ITS POWER AND CONTROL CONNECTORS CAN BE UNPLUGGED TO ISOLATE IT FROM EXTERNAL ELECTRICAL SOURCES. WHEN UNPLUGGING CONNECTORS, BE SURE EACH IS MARKED WITH A NUMBER OR TAPE TO INDICATE ITS CORRECT SOCKET POSITION. DRAPE THE CABLE HARNESS UP SO THE CONNECTOR DOES NOT LIE ON THE BOTTOM OF THE SCOREBOARD COMPARTMENT.

4.) The scoreboard equipment should be inspected, reassembled, and tested well before the first game of the season to allow sufficient time for the return and repair of any malfunctioning parts.

CAUTION

SERVICE THE SCOREBOARD ONLY AFTER IT IS DISCONNECTED FROM ITS POWER SOURCE.
NOTE: ALL REFERENCES ARE TO THE NATIONAL ELECTRICAL CODE, 1999 EDITION.

GROUND LEVEL

SUGGEST 1/2" CONDUIT (REF. 250-64B)

SUGGEST SECURING CONDUIT TO ROD.

SOLID OR STRAND CORROSION PROTECTED CONTINUOUS FROM TERMINAL BLOCK (REF. 250-64B)

FOR PROPER CONDUCTOR SIZING (REF. 250-66)

SCOREBOARD

8 FT MIN. (REF. 250-52)

45°-90°

FLUSH WITH OR BELOW GROUND LEVEL UNLESS PROTECTED.

USE LISTED CLAMP (REF. 250-70)

ROD 8 FT. LONG MIN. FREE OF NON-CONDUCTIVE COATINGS. (REF. 250-52)

SUGGEST 1/2'' CONDUIT (REF. 250-64B)

NOTE: ALL REFERENCES ARE TO THE NATIONAL ELECTRICAL CODE, 1999 EDITION.

1 UPDATED CODE INFORMATION FROM 1999 EDITION 05-19-99 BEW
1999 EDITION

E-6-4923

1700 DELAWARE AVE., DES MOINES, IA 50317

THIS DOCUMENT CONTAINS FAIR-PLAY PROPRIETARY INFORMATION. ANY DISCLOSURE, USE OR DUPLICATION OF THIS DOCUMENT OR OF ANY INFORMATION CONTAINED THEREIN FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS DISCLOSED IS EXPRESSLY PROHIBITED, EXCEPT AS MAY BE OTHERWISE AGREED TO IN WRITING.
NOTE:
SUGGEST CONDUIT WHERE CABLE MAY BE SUBJECT TO MECHANICAL DAMAGE. CONDUIT SIZE DEPENDS ON INSTALLATION.
NOTE: USE NYOGET ON ALL CONNECTIONS INCLUDING THE T-TAPS

**USING 70/120 DEGREE PARTS**

- 16-5001-03 (CORNER)
- 16-5001-01 (HORIZONTAL)
- 16-5001-02 (VERTICAL)

Typical front view:
- All digit sizes typical

Front view:
- Shown in rectangle are the 70 degree parts
- All others are the 120 degrees parts

**USING 100 DEGREE PARTS**

- 16-5001-05 (12VDC)

Typical front view:
- All digit sizes typical

Front view:
- All are the 100 degrees parts

---

**K13-REF.TO CHART A**

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<tr>
<th>PIN</th>
<th>CIRCUIT</th>
<th>CONDUCTOR COLOR</th>
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<td>1</td>
<td>A or A'</td>
<td>BLUE</td>
</tr>
<tr>
<td>2</td>
<td>B or 'B'</td>
<td>PINK</td>
</tr>
<tr>
<td>3</td>
<td>C or 'C'</td>
<td>PURPLE</td>
</tr>
<tr>
<td>4</td>
<td>D or 'D'</td>
<td>GRAY</td>
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<tr>
<td>5</td>
<td>VLED (+)</td>
<td>BLACK (+)</td>
</tr>
<tr>
<td>6</td>
<td>E or 'E'</td>
<td>BROWN</td>
</tr>
<tr>
<td>7</td>
<td>F or 'F'</td>
<td>ORANGE</td>
</tr>
<tr>
<td>8</td>
<td>G or 'G'</td>
<td>YELLOW</td>
</tr>
<tr>
<td>9</td>
<td>I or 'I'</td>
<td>WHITE</td>
</tr>
<tr>
<td>10</td>
<td>H or 'H'</td>
<td>RED</td>
</tr>
</tbody>
</table>

**0 TO 9 UNIT WIRING**

**PERIOD FOR HK-8216 SPOTS**

**VIS AT BAT & HIT SPOTS**

**ERROR & HOME AT BAT SPOTS**

**SPOTS FOR BA-7200**

**TYPICAL SPOTS WIRING**

- BALL
- STRIKE OR OUT
- HIT AND ERROR

**SPOTS FOR BA-7100 & BA-7100**

---

**TRANS-LUX**

**Fair-Play**

1700 DELAWARE AVE.
DES MOINES, IA 50317

**TYPICAL WIRING**

**LED OUTDOOR**

**H/E, FIG. 1'S, SPOTS**

**DRAWN BY**

**NAP**

**DATE**

4/20/01

**DRAWG. NO.**

12-0003-01-1
K13—REF.TO CHART A
PIN 1=FIG.1 TOP/HALF
PIN 2=FIG.1 BOT/HALF
PIN 3=POS./AT BAT
PIN 4=HOLES/AT BAT
PIN 5=HOLE/BAT
PIN 6=ERROR SPOT
PIN 7=HOT SPOT
PIN 8=MIN. COLORS
PIN 9=SEC. COLORS
PIN 10= N.C.

0 TO 9 UNIT WIRING
PIN CIRCUIT CONDUCTOR COLOR
1 A BLUE
2 B PINK
3 C PURPLE
4 D GRAY
5 VLED (V+) BLACK (V+)
6 E BROWN
7 F ORANGE
8 G YELLOW
9 I WHITE
10 H RED

NOTE: USE NYGEL ON ALL CONNECTIONS INCLUDING THE T-TAPS
PART NO. LABEL

TYPICAL WIRE CONNECTION
15" 12 SEGMENT H/E INCLUDES PITCH SPEED LED
5=V+ ON TO CARDS NOTED A,B,C,D,E,F,G,H SEGMENTS

5=V+ ON CARDS NOTED I,J,K,L.

NOTE: USE NYGGEL ON ALL CONNECTIONS INCLUDING THE T-TAPS

NOTE: MP-70 MUST HAVE VERSION 2.18 FOR NEW DIGIT
FINAL CONNECTIONS TO BE COMPLETED AFTER CABINETS HAVE BEEN ERECTED & PERMANENTLY FASTENED.

*WARNING: MAKE SURE POWER SOURCE IS DISCONNECTED, DO NOT MAKE FINAL CONNECTIONS WITH LIVE POWER, FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH CAUSED BY ELECTROCUTION.

1. FACING THE SCOREBOARD LOCATE THE SERVICE DOORS ABOVE THE INNINGS 1 AND 2 (DRIVERS A AND B) AND ABOVE INNINGS 6 AND 7 (DRIVER C).

2. INSIDE THE SERVICE DOOR ABOVE INNINGS 1 AND 2 YOU WILL SEE A PLATE IN THE RIGHT HAND CORNER WITH A CONVENIENCE RECEPTACLE AND TWO 12-1208-01 LAMP DRIVERS. INSIDE THE SERVICE DOOR ABOVE INNINGS 6 AND 7 YOU WILL SEE ONE 12-1208-01 LAMP DRIVER.

3. IN THE TOP SHIPPING SECTION THERE WILL BE A COIL OF CABLE LOCATED BY BALL AND STRIKE DIGIT UNCOIL THE CABLE AND ROUTE BETWEEN THE TOP AND BOTTOM CABINET SECTIONS PASSING THROUGH THE PROVIDED CABLE PASSAGES.
   NOTE: DO NOT PASS CABLE THROUGH ANY CABLE PASSAGES WITHOUT USING A GROMMET OR BACK BONE TO PROTECT THE CABLE. IF GROMMET OR BACK BONE IS MISSING SEEK ONE FROM YOUR LOCAL SUPPLIER OR CONTACT FAIR-PLAY. ALL CABLE PASSAGE HOLES ARE 2 1/2" DIAMETER

4. CABLE WITH 10 PIN CONNECTOR ATTACHED WILL BE PLUGGED INTO THE APPROPRIATE 12-1208-01 DRIVER. PLUGS WILL BE MARKED WITH THE APPROPRIATE PLUG DESTINATION.

5. MAKE FINAL SERVICE HOOKUP TO SCOREBOARD AND CHECK OPERATIONS.
CHART/CONSULT DRAWING 1700 DELAWARE AVE
120 DELAWARE N1004

TEAM NAMES 1/17/01
CAPTIVATION
TYPICAL WIRING

MODEL:

NOTE:

TEAM NAME:
8X40 TEAM NAME SHOW FRAME
X40 TEAM NAME SHOW OPEN
TEAM NAME PANEL SHOW
DATA TO VISITOR

PLT20
2-100-02-02
DATA IN
DATA OUT
DATA CONTROL
2-100-02-02

POWER SUPPLIES
TEAM NAME
TO TEAM NAME
MODULS

POWER SUPPLIES
TEAM NAME
TO TEAM NAME
MODULS

PLT100
DATA IN
DATA OUT
DATA CONTROL

DATA TO VISITOR
TEAM NAME PANEL SHOW OPEN
8X40 TEAM NAME SHOW FRAME

MODEL:

NOTE:

TEAM NAME:
8X40 TEAM NAME SHOW FRAME
X40 TEAM NAME SHOW OPEN
TEAM NAME PANEL SHOW
DATA TO VISITOR

PLT20
2-100-02-02
DATA IN
DATA OUT
DATA CONTROL

POWER SUPPLIES
TEAM NAME
TO TEAM NAME
MODULS

POWER SUPPLIES
TEAM NAME
TO TEAM NAME
MODULS

PLT100
DATA IN
DATA OUT
DATA CONTROL

DATA TO VISITOR
TEAM NAME PANEL SHOW OPEN
8X40 TEAM NAME SHOW FRAME
Notes: Read thoroughly before selecting columns & footings.
- Reference chart on back side for columns and footings.
- The column length equals all component heights + 10’-0” (above grade) + footing depth. See item “A” below if installing a top mounted pendant sign.
- This chart does not support 2-sided installations.
- Columns and footings are selected for locating scoreboard & components 10’-0” above grade. Wind load: 30psf (80 mph). Soil: average with allowable stresses of 2500 psf.
- Design should be altered for different soil conditions, clearance, or local codes.
- If your scoreboard size is not listed check with your local Fair-Play representative or seek the services of a local Engineer. This chart does not support equipment with end signs.
- Reference your installation Manual for back view hanger details and proper column spacing.

“A” When calculating column length, do not include any top mounted Pendant sign models. These signs fasten to the edge of the scoreboard and do not require columns.

While Fair-Play believes the instructions contained herein are accurate and correct, in light of varying soil and other conditions, Fair-Play does not warrant the accuracy or correctness of such instructions and there are no warranties, expressed or implied including but not limited to any warranties of merchantability or fitness for a particular purpose.

In no event shall Fair-Play be liable to dealer or its customer for any indirect, special or consequential damages or lost profits arising out of or related to this sale or the performance or breach thereof even if Fair-Play has been advised of the possibility thereof. Fair-Play’s liability to dealer, if any, in connection with this sale shall in no event exceed the total amount paid by dealer for the scoreboard & sign equipment furnished by Fair-Play.
<table>
<thead>
<tr>
<th>Length of Scoreboard</th>
<th>8'</th>
<th>8'-6&quot;</th>
<th>9'</th>
<th>10'</th>
<th>12'</th>
<th>14'</th>
<th>16'</th>
<th>18'</th>
<th>20'</th>
<th>24'</th>
<th>27'</th>
<th>32'</th>
<th>36'</th>
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<td>W14 X 43</td>
<td>3'-0&quot; dia</td>
<td>9'-0&quot; deep</td>
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COLUMNS and FOOTINGS CHART

98-0029-01 - Rev. 01-23-07
# STANDARD COLUMNS and FOOTINGS FOR BASEBALL LED SCOREBOARDS

| Columns & Footings selected for locating scoreboard 10'-0" above grade | Length of Scoreboard |
|---|---|---|---|---|---|---|---|---|---|
| # of Columns | 9' | 14' | 18' | 20' | 26' | 27' | 28' | 36' |
| Spacing | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |
| BA-7100-2 | W10 X 15 | 2'-6" dia | 6'-0" deep |
| BA-7200-2 | W6 X 9 | 2'-0" dia | 4'-6" deep |
| BA-7200T-2 | W10 X 12 | 2'-6" dia | 5'-0" deep |
| BA-7200PC-2 | W10 X 17 | 2'-6" dia | 6'-6" deep |
| BA-7120-2 | W10 X 19 | 2'-6" dia | 7'-0" deep |
| BA-7127-2 | W10 X 19 | 2'-6" dia | 7'-6" deep |
| BA-7128-2 | W10 X 22 | 2'-6" dia | 8'-0" deep |
| BA-7136-2 | W10 x 22 | 2'-6" dia | 8'-0" deep |
| BA-7126-2 | W10 X 19 | 2'-6" dia | 7'-6" deep |
SCBD EST. CTRL
TYPE "A" "B" WT. TOTAL DIM. CTR.
LENGTH HEIGHT DEPTH (LBS.) AMPS TYPE TO CTR.

BA-7100-2
32 14'-0" 5'-0" 10" 300 0.34 7, 8, 9 5  W=7'-0", X=4'-9 1/2"

BA-7100T-2
30 14'-0" 7'-0" 10" 450 1.25 7, 8, 9 5  W=7'-0", X=4'-9 1/2" & 1'-3 1/2"

BA-7109-2
32 9'-0" 4'-0" 10" 160 1.00 7, 8, 9 5  W=6'-6", X=3'-9 3/8"

BA-7109CL-2
29 9'-0" 4'-0" 10" 160 1.00 4, 7, 8, 9 5  W=6'-6", X=3'-9 3/8"

BA-7109PC-2
32 9'-0" 6'-0" 10" 175 1.25 7, 8, 9 5  W=7'-0", X=4'-9 1/2"

BA-7109T-2
30 9'-0" 6'-0" 10" 170 1.00 7, 8, 9 5  W=7'-0", X=4'-9 1/2"

BA-7109C-2
30 9'-0" 6'-0" 10" 170 1.00 7, 8, 9 5  W=7'-0", X=4'-9 1/2"

BA-7118-2
33 18'-0" 8'-0" 10" 540 2.27 7 5  W=9'-0", X=7'-9 1/2"

BA-7118MP-2
33 18'-0" 10'-1" 10" 450 2.68 7 5  W=9'-0", X=7'-9 1/2" & 1'-9 1/2"

BA-7120-2
35 20'-0" 6'-6" 10" 436 2.68 7 5  W=10'-0", X=6'-3 1/2"

BA-7120-40L-2
35 20'-0" 6'-6" 10" 436 5.10 7 5  W=10'-0", X=6'-3 1/2"

BA-7120MP-2
34 20'-0" 8'-6" 10" 536 3.02 7 5  W=10'-0", X=6'-3 1/2", 1'-9 1/2"

BA-7120MP-40L-2
34 20'-0" 8'-6" 10" 536 5.40 7 5  W=10'-0", X=6'-3 1/2", 1'-9 1/2"

BA-7126-2
34 26'-0" 6'-6" 10" 650 6.04 7 5  W=13'-0", X=6'-3 1/2"

BA-7126-40L-2
34 26'-0" 6'-6" 10" 650 11.26 7 5  W=13'-0", X=6'-3 1/2"

BA-7126-48L-2
34 26'-0" 8'-0" 10" 665 9.92 7 5  W=14'-0", X=7'-9 1/2"

BA-7126-48L-2
34 26'-0" 8'-0" 10" 665 12.24 7 5  W=14'-0", X=7'-9 1/2"

BA-7128-2
34 28'-0" 6'-0" 10" 665 9.92 7 5  W=14'-0", X=7'-9 1/2"

BA-7128-40L-2
34 28'-0" 6'-0" 10" 665 12.24 7 5  W=14'-0", X=7'-9 1/2"

BA-7128-40L-2
34 28'-0" 6'-0" 10" 665 12.24 7 5  W=14'-0", X=7'-9 1/2"

NOTE: TYPICAL LOAD= 80% OF TOTAL WATTAGE. POWER = 120VAC 60Hz, 2 WIRE AND GROUND.

HANGER TYPE:
5= STANDARD J
* OPTIONAL CONTROL MAY HAVE LIMITED FUNCTIONS.

ALL SCOREBOARDS HAVE LED DIGITS

CONTROLS:
4=MP-71B
7=MP-70
8=MP-50
9=MP-30

* CONTROL CABLE TYPICAL=C0550, 1-PAIR, 22 GAUGE, ((1) PER SCOREBOARD)

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<table>
<thead>
<tr>
<th>Problem: Scoreboard does not light or function.</th>
<th>Solution:</th>
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<tbody>
<tr>
<td>1. Check scoreboard breaker.</td>
<td>1. Check scoreboard breaker.</td>
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<tr>
<td>2. Make sure connectors on processors are seated properly.</td>
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<tr>
<td>3. Check power at the scoreboard. If there is no power at the scoreboard, call an electrician.</td>
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</tbody>
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<thead>
<tr>
<th>Problem: Random LED's, scoreboard not functioning correctly.</th>
<th>Solution:</th>
</tr>
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<tbody>
<tr>
<td>1. Check to see if the controller is operating properly.</td>
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<td>Check power at the controller location. Check data cable plug and connectors.</td>
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<tr>
<td>2. Plug the controller into the data in on the processor located in the scoreboard. If the scoreboard runs, you need to replace the data cable.</td>
<td>2. Plug the controller into the data in on the processor located in the scoreboard. If the scoreboard runs, you need to replace the data cable.</td>
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<tr>
<td>3. Install spare processor, if this works send in old processor for repair.</td>
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<tr>
<td>4. If the above steps don’t work, send in the controller for repair.</td>
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<tr>
<th>Problem: Miscellaneous LED’s not lighting or staying lit all the time</th>
<th>Solution:</th>
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<tbody>
<tr>
<td>1. If a complete digit is not working, check the connector on the processor.</td>
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<tr>
<td>2. If a single LED digit is not lighting, change the entire PCA card. Replace with correct part number located on back of card.</td>
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<tr>
<td>3. If lamps are staying lit, install spare processor or call authorized Fair-Play dealer.</td>
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</tbody>
</table>
Fair-Play provides a limited five-year warranty when its permanently mounted scoreboards and scoreboard controllers are operated and maintained according to the owner's instructions furnished with the equipment. Such limited warranty is two years for portable scoreboards. This warranty covers all electronic components, including LEDs, for five or two years as applicable from the date of invoice which prove to be defective in material or workmanship. Our #161 and #655-type indoor lamps are warranted on a ten-year factory exchange basis from the date of invoice.

Excluded from this warranty are fuses, major components provided by other manufacturers including, but not limited to, computers, rotating shipping costs after repair will be paid by Seller except for overnight, express or special shipping costs which shall be paid by Purchaser.

This warranty does not cover shipping damages or problems which result from improper installation of your equipment. (Promptly inspect adjustment of the warranted scoreboards or components not performed by Fair-Play.)

Under no circumstances shall this warranty apply if the warranted products have been subject to abuse, misuse, neglect, sabotage, acts of terrorists, negligence, accident, or any casualties or abnormal conditions, including without limitation fire, civil disorders, war, flood, lightning or acts of God. Nor does this warranty cover labor or damage resulting from, or problems caused by, any repair, alteration, modification, or adjustment of the warranted scoreboards or components not performed by Fair-Play.

This warranty extends only to the original end-user purchaser of the warranted products, and is not transferable. For information on extended warranties contact your Fair-Play dealer. In the event authorized Fair-Play dealers make extensions to or provide additional service for Fair-Play products, Fair-Play assumes no liability therefore other than the specific warranty set forth above in this Limited Warranty.

Trans-Lux Midwest Corporation