KNIGHT CENTER FOR EARLY EDUCATION
Learning Landscape & Parking Lot Improvements

CENTENNIAL K-8
Irrigation Improvements

BID DOCUMENTS
APRIL 06, 2011
CONSTRUCTION PLANS FOR
CONSTRUCTION ACTIVITIES STORM WATER MANAGEMENT
KNIGHT ELEMENTARY SCHOOL - SITE 251
3245 E. EXPOSITION AVE.
A PORTION OF THE N/E 1/4 OF SECTION 13,
T46S, R66W, OF THE 6TH P.M.
CITY AND COUNTY OF DENVER, STATE OF COLORADO
MARCH 18, 2011

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VICINITY MAP
SITE AREA = 8.0 ACRES (EST.)
PROJECT AREA = 4.3 ACRES
FILED IN THREE (3) UNIFIED, AREA OUTSIDE OF THE 100-YEAR FLOOD PLAN

OWNER AND AGENTS
GARA ENGINEER:
JIM LEONARDSON, P.E.
JLB ENGINEERING CONSULTANTS
500 S. MAIN ST.
LOUISVILLE, COLORADO 80027
303-654-7260

LANDSCAPE ARCHITECT:
CHRISTOPHER KOTTMANN
1001 14TH STREET PLACE
NORTHEN, COLORADO 80204
303-031-5766

PROJECT SPECIFIC NOTES

WAD STANDARD NOTES

1. All graphing and layout work is to be conducted in such a manner as to effectively reduce construction site waste, and reduce the overall project time required from the date of approval to the completion of the project.
2. All materials and equipment shall be placed on the site in such a manner as to effectively reduce construction site waste, and reduce the overall project time required from the date of approval to the completion of the project.
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15. All materials and equipment shall be placed on the site in such a manner as to effectively reduce construction site waste, and reduce the overall project time required from the date of approval to the completion of the project.
### GENERAL IRRIGATION NOTES

1. **The irrigation contractor shall ensure thorough planning with the specifications for the irrigation system and installation.**

2. **The irrigation design must be done in accordance with the specifications for the irrigation system and installation.**

3. **After installation, the irrigation system must be thoroughly tested and adjusted to meet the specifications for the irrigation system and installation.**

4. **The irrigation system must be tested and adjusted to meet the specifications for the irrigation system and installation.**

### SPRINKLER SCHEDULE

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>NAME</th>
<th>MODEL</th>
<th>NOZZLE</th>
<th>GPM</th>
<th>PSI</th>
<th>PATTERN</th>
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<tr>
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### ALTERNATE #1 NOTES

1. The irrigation contractor shall ensure thorough planning with the existing irrigation system and installation. Before installation, the irrigation system shall be thoroughly tested and adjusted.

2. The irrigation system shall be thoroughly tested and adjusted before installation.

### PIPE SCHEDULE

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MAXIMUM FLOW (GPM)</th>
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<tbody>
<tr>
<td>1&quot;</td>
<td>15</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
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</tr>
<tr>
<td>2&quot;</td>
<td>35</td>
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<tr>
<td>2 1/2&quot;</td>
<td>55</td>
</tr>
<tr>
<td>3&quot;</td>
<td>80</td>
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<tr>
<td>4&quot;</td>
<td>120</td>
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NO. 11.25  NO. 12

NOTE:

1. Thru holes shall be cut before installing drain valve insert.
2. Remote valve shall be protected with drain valve inserted.
3. Drain valve shall be in place to prevent water from entering the jacket.
4. Use the proper valve for your specific application.

THRU HOLE SURFACE AREA TO DRAIN DEVICES 1/4" (SQ. FT.)

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<tr>
<th>Size</th>
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<td>7.0</td>
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<td>2.0</td>
<td>2.0</td>
<td>0.5</td>
</tr>
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</table>

NOTES:

1. All drains shall be installed and tested according to manufacturer's installation specifications.
2. All remote control and valve shall be LEED certified.
3. Use all proper fittings for your specific application.
4. The installation and operation of the valve shall be as specified.
5. Thrust block for outside drain on 6-inch manhole shall have a minimum value of 1/4" in 2 feet.
6. Provide fittings to match drain valve with RP 2 No. 8 1/2 EZ PLATE.