ELEVENTH STREET BRIDGE
OVER BRANDYWINE CREEK
WILMINGTON, DELAWARE
FOR
NEWCASTLE COUNTY, DELAWARE
ALBAN P. SHAW, COUNTY ENGINEER

44 FOOT ROADWAY

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. GENERAL ARRANGEMENT OF BASCULE SPAN AND PIER
3. BASCULE SPAN - FLOOR AND LATERALS
4. BASCULE SPAN - FLOOR
5. BASCULE SPAN - GIRDERS
6. COUNTERWEIGHT AND COUNTERWEIGHT PIER
7. HINGES ON SPANS
8. TROLLEY RAILS AND PILES
9. TRAFFIC GATES
10. STEEL ORNAMENTS - BASCULE PIER
11. STEEL ORNAMENTS - BASCULE PIER
11A. STEEL ORNAMENTS - BASCULE PIER
12. BASCULE PIER
13. BASCULE PIER
14. BASCULE PIER
15. OPERATOR'S HOUSE
16. OPERATOR'S HOUSE
17. FOUNDATION
18. OPERATING MACHINERY
19. OPERATING MACHINERY
20. ROCKS, TURLICON, BEARINGS (1/2 LOCKS)
21. TRACKS (SPAN)
22. CONCRETE GIRDERS SPANS
23. CONCRETE GIRDERS SPANS
24. PILES (1, 2, 3 AND 5)
25. ADJUSTMENTS AND RETAINING WALLS
26. ADJUSTMENTS
27. RETAINING WALLS AND PILONS

ASH-HOWARD-NEEDLES AND TAMMEN
CONSULTING ENGINEERS
KANSAS CITY             NEW YORK
### QUANTITY SHEET

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### LEGEND

- **2" HOT-MIX**
  - **TYPE C**, 3/4" REINFORCED CONCRETE BASE COURSE
  - **TYPE E**, 3/4" PORTLAND CEMENT CONCRETE SIDEWALK OVER 6" CRUSHED RUSK BASE COURSE (AS DIRECTED BY THE ENGINEER)
- **3" HOT-MIX**
  - **TYPE C**, 3/4" REINFORCED CONCRETE BASE COURSE
  - **TYPE E**, 3/4" PORTLAND CEMENT CONCRETE SIDEWALK OVER 4" CRUSHED RUSK BASE COURSE (AS DIRECTED BY THE ENGINEER)
- **PORTLAND CEMENT CONCRETE CURB (TYPE 1)**
- **INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER (TYPE 3)**
- **PORTLAND CEMENT CONCRETE CURB (TYPE 3)**
- **INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER (TYPE 3)**
- **WHEEL CHOCK RAMP (TYPE 1)**
- **WHEEL CHOCK RAMP (TYPE 2)**
- **WHEEL CHOCK RAMP (TYPE 3)**
- **WHEEL CHOCK RAMP (TYPE 4)** (See detail on plan sheet No. 3)
- **REPLACE EXISTING CATCH BASIN BARGE WITH STANDARD 45° CATCH BASIN BARGE**
- **SMOOTHING CONCRETE**
- **SMOOTHING HOT-MIX**

### UTILITY LEGEND

- **City of Upland (Water)**
- **City of Upland (Gas)**
- **Delmarva Pipeline (Gas)**
- **600D Telephone (Telephone)**
- **1200D Telephone (Telephone)**

### SHEET 1 OF 2

- **US 15** (L.E. Baud) 32 Bradyleague Ave to Edgemoor Ave
GENERAL NOTES

PATCHING SCHEDULE

MAINTENANCE OF TRAFFIC

1. All work shall be performed in a manner that will ensure the least practicable obstruction to the traffic, consistent with safety and shall comply with the manuals cited (Highway Traffic Control and other pertinent sections) as revised January, 1999.

2. Case of any failure to make Traffic Control devices shall be made for all lane closures drawn January 1, 1999.

3. All signs shall be appropriately sized for a particular piece of construction. The size shall be based on the size of the vehicles expected to pass through the work area. The size shall be large enough to be visible from a distance of at least 300 feet.

4. A "Stop" sign shall be displayed when a flagman is directing traffic.

5. The use of "Hi-Vis" vests, "Hard Hats", "Flash Tape", and "Flashing Delar" signs shall be used at various locations on the job as directed by the above referenced manual page 8, 9, 10, and pertinent sections.

- ndsconstruction site.
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THE STATE OF DELAWARE

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SPECIFICATION AND CONSTRUCTION PLANS FOR:

BR. 577, NORTHEAST BLVD. OVER BRANDYWINE CREEK

CONTRACT NUMBER 90-074-01
FEDERAL AID PROJECT NUMBER BHM-1137(5)

ROADWAY LENGTH 32.88 FEET = 0.06 MILES
STRUCTURE LENGTH 32.88 FEET = 0.06 MILES
TOTAL LENGTH 32.88 FEET = 0.06 MILES

LOCATION MAP
### Quantity Summary

#### Sheet no. 2 of 2

| ITEM | 2020504 | 2020506 | 2020508 | 2020502 | 2020507 | 2020509 | 2020510 | 2020512 | 744000 | 744002 | 744004 | 744006 | 744008 | 744010 | 744012 | 744014 | 744016 | 744018 | 744020 | 744022 | 744024 | 744026 | 744028 | 744030 | 744032 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| SHEET NO. FROM STA. | 700 | 800 | 60 | ISO80 | 1,040 | 47 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |
| TOTAL | 700 | 800 | 60 | ISO80 | 1,040 | 47 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |

#### Proposal

| ITEM | 2020504 | 2020506 | 2020508 | 2020502 | 2020507 | 2020509 | 2020510 | 2020512 | 744000 | 744002 | 744004 | 744006 | 744008 | 744010 | 744012 | 744014 | 744016 | 744018 | 744020 | 744022 | 744024 | 744026 | 744028 | 744030 | 744032 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| SHEET NO. FROM STA. | 700 | 800 | 60 | ISO80 | 1,040 | 47 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |
| TOTAL | 700 | 800 | 60 | ISO80 | 1,040 | 47 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |

#### Proposal

| ITEM | 2020504 | 2020506 | 2020508 | 2020502 | 2020507 | 2020509 | 2020510 | 2020512 | 744000 | 744002 | 744004 | 744006 | 744008 | 744010 | 744012 | 744014 | 744016 | 744018 | 744020 | 744022 | 744024 | 744026 | 744028 | 744030 | 744032 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| SHEET NO. FROM STA. | 700 | 800 | 60 | ISO80 | 1,040 | 47 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |
| TOTAL | 700 | 800 | 60 | ISO80 | 1,040 | 47 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |

#### Note
- A: Federal Participation Road Construction
- C: Federal Participation Bridge Construction
- F: Fixed Quantity (see Section 102.06)
- FF: Fixed Price
DECK REINFORCEMENT PLAN

Scale: 3/8" = 1'-0"

NOTES:
1. Work this sheet with sheet 12, 13, 14, 15, 16, & 20.
2. For section A-A, see sheet 15.
3. For trucker detail, see sheet 10.
4. For joint detail, see each deck joint sheet.
5. Temporary sheeting, as approved by the jurisdiction, must be in place before demolition of the deck.
6. Demolition to include removal of deck to its entirety, a 2'-6" wide portion of curb, and 2'-6" of the top of concrete.
7. For the deck joint system, see sheet 15.

See Sheet 13 for Reinforcing Details.
DECK DETAILS AND APPROACH SIDEWALK

DECK PLACEMENT SEQUENCE DIAGRAM

Placement Notes:
1. The placement sequence outlined on this sheet refers to the order of placing concrete within each construction stage. The placement sequence must be followed in the order specified.
2. Refer to Construction Sequence on sheet 18 for additional information regarding construction sequence.
3. Prior to Step 4, structural steel and concrete must be obtained.
4. After Step 4, structural steel and concrete must be obtained.
5. After Step 4, structural steel and concrete must be obtained.
6. After Step 4, structural steel and concrete must be obtained.

Placement Sequence:

Step No. | Item
--- | ---
1 | Cast the top (1") of the concrete slabs and diaphragms within Area 1 of Step 1.
2 | Cast the top (1") of the concrete slabs and diaphragms within Area 2 of Step 2.
3 | Cast the reinforced concrete deck within Areas 1 and 2.
4 | Cast the reinforced concrete deck within Areas 1 and 2.

Steps listed above represent the sequential order in which the concrete slabs and deck must be placed. The placement must be in accordance with the application of the temporary shoring and the removal as directed on Sheet 18.

SCHURER THROUGH CURB

Bottom of Curb

Plan View

SECTION C-C

SCALE 1" = 1'-0"

PLAN VIEW

Scale 1" = 1'-0"

SECTION A-A

Scale 1" = 1'-0"

NOTE: Existing Sidewalk to be removed (refer to Sheet 10 for details).

REPLACE CURB (ITEM 602002)

SCALE 1" = 1'-0"

NOTE: Existing Sidewalk to be removed (refer to Sheet 10 for details).

NEW SIDEWALK CURB (ITEM 602002)

SCALE 1" = 1'-0"

REPLACE CURB (ITEM 602002)

SCALE 1" = 1'-0"

NOTE: Existing Sidewalk to be removed (refer to Sheet 10 for details).

Curb Line

And 20'x6' Welded Wire Fabric (Incidental to Sheet 602002)
<table>
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<th>B</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E 1218</td>
<td>5</td>
<td>129</td>
<td>15' - 5&quot;</td>
<td>Str.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E 1221</td>
<td>6</td>
<td>120</td>
<td>14' - 0&quot;</td>
<td>Str.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E 1222</td>
<td>6</td>
<td>120</td>
<td>13' - 2&quot;</td>
<td>Str.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E 1223</td>
<td>6</td>
<td>120</td>
<td>15' - 0&quot;</td>
<td>Str.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- FIGURES IN CIRCLES SHOW TYPES.
- "T" DESIGNATION ON TABS HOOKS ARE SHOWN ONLY WHERE NEEDED TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- "E" PREFIX INDICATES EPOXY COATED REINFORCEMENT BARS.
- $f_y = 60$ ksi.
NOTES:
1. All sections are looking station north.
2. For the required Placement Sequence of the Dike Drivers and Bases, see Sheet 18.
3. For Construction Buffer Zone Sequence, see Sheet 18.
4. For Widening and Protection of Traffic see the Traffic Control Plans and Traffic Control Details.
5. (a) Limits of Work Area to include portions of the sidewalk as required to install the Dike Joint System and Wide Bridge Railing.
   (b) Extreme caution must be used for work adjacent to an open lane, as the operation of construction equipment in these areas involves potential hazards.
6. The Contractor is to avoid encroaching the Construction Buffer Zone with his equipment and personnel.
7. Pay Item 720004 - PORTABLE PVC SAFETY BARRIER includes installing, placing, maintaining, and removing the Precast PVC Safety Barrier per the plans and specifications.
8. Pay Item 720008 - RELocate PORTABLE PVC SAFETY BARRIER includes moving, maintaining, and removing the previously placed PVC Safety Barrier to a new location within the construction site.
12. Remodeling and Intermediates Traffic Shading shall be paid for under Pay Item 720023.
13. Existing and Intermediates Traffic Shading will be required by the proposed construction on the bridge. The Contractor is directed to remove the existing pavement at this location, as required by the plans and specifications.
14. Pay Item 720043 - INTERMEDIATE TRAFFIC SHADING includes installing, placing, and maintaining the Intermediate Traffic Shading during the various Construction Stages as shown on the plans.
### STANDARD CONSTRUCTION SIGNS

<table>
<thead>
<tr>
<th>SIGNS</th>
<th>NO. OF SIGNS REQUIRED</th>
<th>SHOWN EACH STAGE</th>
<th>HOURS OF CONSTRUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHORE CONSTRUCTION</td>
<td>2</td>
<td>0-1</td>
<td>2-3</td>
</tr>
<tr>
<td>LID CONSTRUCTION</td>
<td>2</td>
<td>0-3</td>
<td>2-5</td>
</tr>
<tr>
<td>HHO</td>
<td>2</td>
<td>0-3</td>
<td>2-5</td>
</tr>
<tr>
<td>END CONSTRUCTION</td>
<td>2</td>
<td>0-3</td>
<td>2-5</td>
</tr>
</tbody>
</table>

### SPECIAL CONSTRUCTION SIGNS

<table>
<thead>
<tr>
<th>SIGNS</th>
<th>NO. OF SIGNS REQUIRED</th>
<th>SHAPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-A-2</td>
<td>2</td>
<td>0-3</td>
</tr>
</tbody>
</table>

### TRAFFIC CONTROL DEVICES

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>ITEM</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable PCC Safety Barrier</td>
<td>Qty</td>
<td>720504</td>
<td>10</td>
</tr>
<tr>
<td>Reloc. Port. PCC Safety Barrier</td>
<td>Qty</td>
<td>720506</td>
<td>12</td>
</tr>
<tr>
<td>Reflector</td>
<td>Qty</td>
<td>720540</td>
<td>12</td>
</tr>
<tr>
<td>Plastic Delineator</td>
<td>Qty</td>
<td>720540-A</td>
<td>200</td>
</tr>
<tr>
<td>Arrow Pans, Type C</td>
<td>Ea/yr</td>
<td>743002</td>
<td>120</td>
</tr>
<tr>
<td>Warning Signs, Stationary</td>
<td>Ea/yr</td>
<td>743094</td>
<td>12</td>
</tr>
<tr>
<td>Bar, Warning Sign, Type A</td>
<td>Ea/yr</td>
<td>743094-A</td>
<td>12</td>
</tr>
<tr>
<td>Bar, Warning Sign, Type C</td>
<td>Ea/yr</td>
<td>743094-B</td>
<td>12</td>
</tr>
<tr>
<td>Intermediate Markings, Round</td>
<td>Lf</td>
<td>740002</td>
<td>360</td>
</tr>
<tr>
<td>Removal of Pavement Stripping</td>
<td>Lf</td>
<td>740000</td>
<td>120</td>
</tr>
</tbody>
</table>

### NOTES FOR CONSTRUCTION SIGNS:

2. All materials shall be labeled with the applicability of the traffic control, and shall have a Black Legend on an Orange Background unless otherwise indicated.
3. Note: Type "A" Arrows shall be mounted on the first Van Advance Warning Sign.
4. Reference is made to the "Traffic Control Manual" for the City of New York.

### ADVANCE WARNING SIGNS

<table>
<thead>
<tr>
<th>STREET</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>THATCHER STREET AND E. 12TH STREET</td>
<td>(TWO LANES - TWO WAY)</td>
</tr>
<tr>
<td>CHURCH STREET AND 11TH STREET</td>
<td>(TWO LANES - ONE WAY)</td>
</tr>
</tbody>
</table>

### GENERAL NOTES:

1. Work shall be done in accordance with the New York City Department of Transportation (NYC DOT) Specifications and Standard Details.
2. All materials shall be labeled with the applicability of the traffic control, and shall have a Black Legend on an Orange Background unless otherwise indicated.
3. Reference is made to the "Traffic Control Manual" for the City of New York.
4. All materials shall be labeled with the applicability of the traffic control, and shall have a Black Legend on an Orange Background unless otherwise indicated.
5. Reference is made to the "Traffic Control Manual" for the City of New York.
6. All materials shall be labeled with the applicability of the traffic control, and shall have a Black Legend on an Orange Background unless otherwise indicated.

### TRAFFIC CONTROL DETAILS

- Traffic Control Plan Sheet 22
- Traffic Control Plan Sheet 23
THE STATE OF DELAWARE

DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS AND CONSTRUCTION PLANS FOR:

11TH STREET ENHANCEMENT - WILMINGTON, DE
WALNUT STREET TO NORTHEAST BLVD.

CONTRACT NUMBER 99-011-02 READVERTISED

FEDERAL AID PROJECT NUMBER ESTP-N999(71)

FROM KILOMETER POST ROADWAY LENGTH 888 METERS = 0.888 KILOMETERS
TO KILOMETER POST

TOTAL LENGTH 888 METERS = 0.888 KILOMETERS

11TH STREET ENHANCEMENT
FROM WALNUT STREET TO NORTHEAST BLVD.

INDEX OF SHEETS

SHEET NO. TABLE OF CONTENTS
1 TITLE
2 GENERAL NOTES AND LEGEND
3 GENERAL NOTES - ASBANG
4-7 EXISTING CONDITIONS & PROJECT NOTES
8-11 CONSTRUCTION PLANS
12-14 GRADES & DRAINAGE PLANS
15-18 PERMANENT MAPPING PLANS
19-21 SLEEPING PLAN
22 EXCAVATION AND EMBANKMENT CONTROL PLAN
23-24 DETAILS - VX
25-27 LANDSCAPE PLAN
28-31 LANDSCAPE PLAN DETAILS
32-35 DETAILS - SV
36-38 LIGHTING PLAN
39 LIGHTING PLAN - PREPIT LIGHTING DETAILS
40 LIGHTING SCHEDULES, LEGEND, NOTES
41-42 LIGHTING DETAILS
43-45 POLE ARRANGEMENT
46-50 WTPU PLANS
51-54 SIGNALIZATION PLANS
55-58 QUANTITIES

DEPARTMENT OF TRANSPORTATION

RECOMMENDED

RECOMMENDED

RECOMMENDED

RECOMMENDED

RECOMMENDED

RECOMMENDED

PREPARED BY:

Urbana, Inc.

LAND SURVEYING

Morton & Associates, Inc.

ELECTRICAL ENGINEERING

Frederick B. Norris, Inc.

Civil/Traffic/Transportation Engineering

Eric J. Sturm, ASLA

Symberra Ltd.

PREPARED BY:

13th Street

12th Street

Mr. McCouler Court

Howard Educational Park

END OF CONTRACT 99-011-02

9+650

10+278

BEGINNING OF CONTRACT 99-011-02

STATION 0+130

11th Street

9th Street

FACILITY OF CONTRACT
GENERAL NOTES:
1. ALL DIMENSIONS ARE METERS UNLESS OTHERWISE NOTED.
2. THE LIMITS OF EPOXY RESIN PAINT SHALL BE DETERMINED BY THE FIELD ENGINEER.
GENERAL NOTES:
1. All dimensions are meters unless otherwise noted.
2. All existing signs are to remain unless otherwise noted.

SIGNING LEGEND
- Renew existing sign
- Place new sign
- Reposition existing sign
- Renew and reposition existing sign

11TH STREET ENHANCEMENT PLAN
FROM WALNUT STREET TO 12TH STREET

REVISIONS
GENERAL NOTES:
1. ALL DIMENSIONS ARE METERS UNLESS OTHERWISE NOTED.
2. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED.

SIGNING LEGEND

1. RENEW EXISTING SIGN
2. PLACE NEW SIGN
3. REPOSITION EXISTING SIGN
4. RENEW AND REPOSITION EXISTING SIGN

SIGNING PLAN

GRAPHIC SCALE (1:3000)

11TH STREET ENHANCEMENT PLAN
FROM WALNUT STREET TO 12TH STREET

REVIEWS

NO
GENERAL NOTES:
1. ALL DIMENSIONS ARE METERS UNLESS OTHERWISE NOTED.
2. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED.
CONVERTING EXISTING DRAINAGE INLET TO JUNCTION BOX

RECONSTRUCTING CATCH BASIN TOP UNIT

Note:
Construction will down into existing catch basins (brick or concrete). The engineer may direct the contractor to replace the entire catch basin and replace with "Catch Basin A, Modified".
# PLANTING SCHEDULE

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SYMBOL</th>
<th>QTY</th>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>SIZE</th>
<th>ROOT</th>
<th>REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB</td>
<td>6</td>
<td></td>
<td>Carpinus betulus 'Fastigiata'</td>
<td>Pyramidal European Hornbeam</td>
<td>65-75mm Cal.</td>
<td>OOSB</td>
<td></td>
</tr>
<tr>
<td>PS</td>
<td>9</td>
<td></td>
<td>Prunus serrulata 'Columnaris'</td>
<td>Columnar Japanese Cherry</td>
<td>75-90mm Cal.</td>
<td>OOSB</td>
<td></td>
</tr>
<tr>
<td>GS</td>
<td>6</td>
<td></td>
<td>Zelkova serrata 'Green Vase'</td>
<td>Green Vase Zelkova</td>
<td>75-90mm Cal.</td>
<td>OOSB</td>
<td></td>
</tr>
</tbody>
</table>

# LANDSCAPE PLAN

11TH STREET ENHANCEMENT PLAN FROM WALNUT STREET TO 12TH STREET

REVISIONS
**PLANTING SCHEDULE**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SYMBOL</th>
<th>QTY.</th>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>SIZE</th>
<th>ROOT</th>
<th>REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
<td>6</td>
<td>Acer campestre</td>
<td>Hedge Maple</td>
<td>65-75cm Cal.</td>
<td>BBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CB</td>
<td>4</td>
<td><em>Doronicum bellatissimum</em></td>
<td>'Fastigate'</td>
<td>Pyramidal European Hemlock</td>
<td>75-90cm Cal.</td>
<td>BBD</td>
<td></td>
</tr>
<tr>
<td>PS</td>
<td>9</td>
<td><em>Prunus serotina</em> 'Sawhannah'</td>
<td>Columnar Sangari Cherry</td>
<td>75-90cm Cal.</td>
<td>BBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SJ</td>
<td>9</td>
<td><em>Sophora japonica</em> 'Princeton Uproot'</td>
<td>Princeton Upright Schizocarpa</td>
<td>75-90cm Cal.</td>
<td>BBD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LANDSCAPE PLAN**

11TH STREET ENHANCEMENT PLAN
FROM WALNUT STREET TO 12TH STREET

REVISIONS
PLANTING SCHEDULE

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SYMBOL</th>
<th>QTY.</th>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>SIZE</th>
<th>ROUT</th>
<th>REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>STREET TREES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CB</td>
<td>4</td>
<td>Carya illinoinensis 'Veil Spectra'</td>
<td>Pyramidal European Honeylocust</td>
<td>65-75cm Col.</td>
<td>B&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SJ</td>
<td>9</td>
<td>Sophora japonica 'Princeton Upright'</td>
<td>Princeton Upright Schizophrina</td>
<td>75-90cm Col.</td>
<td>B&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZS</td>
<td>8</td>
<td>Zelkova serrata 'Green Vase'</td>
<td>Green Vase Zelkova</td>
<td>75-90cm Col.</td>
<td>B&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ORNAMENTAL TREES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MR</td>
<td>7</td>
<td>Misc. 'Harvest Gold'</td>
<td>Harvest Gold Crape Myrtle</td>
<td>50-85cm Col.</td>
<td>B&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KO</td>
<td>4</td>
<td>Koelreuteria paniculata</td>
<td>Golden Rain Tree</td>
<td>60-75cm Col.</td>
<td>B&amp;B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GENERAL NOTES:
1. Prune trees back by one third. Prune deadwood or diseased limbs. Prune any damaged branches. Do not top off, leave stubs, or cut the tree correct. Do not remove excessive branches.
2. All woody vegetation to remain within 7.5m of the limit of construction shall be protected by tree protection fencing. All tree protection fencing shall be placed at the dripline of trees and shrubs.
3. No material shall be stockpiled under or within protected vegetation. All construction traffic shall be prohibited within protected vegetation.
4. New plant material within the driplines of existing trees shall be installed by hand.
5. All tree roots or branches broken during construction shall be cleanly cut. All tree roots exposed by excavation or demolition shall be covered with plastic sheeting or wet burlap until finished grade is restored.

LANDSCAPE PLAN

11TH STREET UPGRADE PLAN FROM WALNUT STREET TO 12TH STREET

REVISIONS

TRANQUIL PARK IMPROVEMENTS

NOT IN CONTRACT
PATH LAYOUT PLAN

PATH PLANTING PLAN DETAIL

PLANTING SCHEDULE FOR PATH

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SYMBOL</th>
<th>QTY</th>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>SIZE</th>
<th>ROOT</th>
<th>REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>G5</td>
<td>4</td>
<td>Cercis canadensis</td>
<td>Eastern Redbud</td>
<td>50 to 60 in. Cal</td>
<td>B&amp;B</td>
<td>Tree Form</td>
</tr>
<tr>
<td></td>
<td>G4</td>
<td>3</td>
<td>Chionanthus virginicus</td>
<td>White fringe Tree</td>
<td>1.5 to 1.8 m Ht</td>
<td>B&amp;B</td>
<td>Tree Form</td>
</tr>
<tr>
<td></td>
<td>G3</td>
<td>6</td>
<td>Hypericum virginicum</td>
<td>Common Witch Honeysuckle</td>
<td>1.5 to 1.8 m Ht</td>
<td>B&amp;B</td>
<td>Tree Form</td>
</tr>
<tr>
<td>GROUND COVER</td>
<td>G50</td>
<td>100</td>
<td>Lilium auratum 'Lilac Beauty'</td>
<td>Lilac Beauty Lily-Turf</td>
<td>100 mm</td>
<td>Plant Pot</td>
<td>0.3 m, O.C.</td>
</tr>
</tbody>
</table>

PLANTING SCHEDULE FOR SPRUCE STREET CORNER

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SYMBOL</th>
<th>QTY</th>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>SIZE</th>
<th>ROOT</th>
<th>REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H5</td>
<td>3</td>
<td>Hypericum virginicum</td>
<td>Common Witch Honeysuckle</td>
<td>1.5 to 1.8 m Ht</td>
<td>B&amp;B</td>
<td>Tree Form</td>
</tr>
<tr>
<td></td>
<td>L5</td>
<td>500</td>
<td>Malus 'Red Jewel'</td>
<td>Red Jewel Crab</td>
<td>50 to 65 in. Cal</td>
<td>B&amp;B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S6</td>
<td>500</td>
<td>Prunus 'National'</td>
<td>National Cherry</td>
<td>65 to 70 in. Cal</td>
<td>B&amp;B</td>
<td></td>
</tr>
<tr>
<td>GROUND COVER</td>
<td>2000</td>
<td>100</td>
<td>Lilium auratum 'Lilac Beauty'</td>
<td>Lilac Beauty Lily-Turf</td>
<td>100 mm</td>
<td>Plant Pot</td>
<td>0.3 m, O.C.</td>
</tr>
</tbody>
</table>

11TH STREET ENHANCEMENT PLAN
FROM WALNUT STREET TO 12TH STREET

REV. 1

ORNAMENTAL METAL FENCE & BRUSHES

ORNAMENTAL STONE CUBE

ORNAMENTAL ANCHOR HITCH

PROPOSED CURB

CONCRETE CURB

EXISTING SIDWALK

EXISTING PAVING

INCH. 5/05

SCALE 1"=1'-0"

SPRUCE STREET CORNER LAYOUT PLAN

SPRUCE STREET CORNER PLANTING PLAN DETAIL
## PLANTING SCHEDULE

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SYMBOL</th>
<th>QTY</th>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>SIZE (FT)</th>
<th>ROOT</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20</td>
<td>A. 28</td>
<td>Alchemilla mollis</td>
<td>Alumroot</td>
<td>0.3-0.5m Ht.</td>
<td>B&amp;B</td>
<td>well-drained</td>
</tr>
<tr>
<td>2</td>
<td>A</td>
<td>22</td>
<td>Hydrangea quercifolia</td>
<td>Oakleaf Hydrangea</td>
<td>0.3-0.4m Ht.</td>
<td>B&amp;B</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>12</td>
<td>Rose 'Duchess'</td>
<td>'Duchess' Rose</td>
<td>0.4-0.5m Ht.</td>
<td>B&amp;B</td>
<td>0.9m O.C.</td>
</tr>
<tr>
<td>4</td>
<td>C</td>
<td>12</td>
<td>Rosa 'Steiner'</td>
<td>'Steiner' Rose</td>
<td>0.4-0.5m Ht.</td>
<td>B&amp;B</td>
<td>0.9m O.C.</td>
</tr>
<tr>
<td>5</td>
<td>L</td>
<td>117</td>
<td>Salix caprea 'Vale of York'</td>
<td>'Vale of York' Willow</td>
<td>0.2-0.3m Ht.</td>
<td>B&amp;B</td>
<td>1.8m O.C.</td>
</tr>
<tr>
<td>6</td>
<td>I</td>
<td>16</td>
<td>Salix alba 'Compacta'</td>
<td>'Compact' White Willow</td>
<td>0.3-0.5m Ht.</td>
<td>B&amp;B</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>12</td>
<td>Rhododendron 'Aureus'</td>
<td>'Aureus' Hybrid Azalea</td>
<td>0.35-0.35m Ht.</td>
<td>B&amp;B</td>
<td></td>
</tr>
</tbody>
</table>

### PERSONNEL

- 10 | Abelia x grandiflora | Abelia Shrub | # | CAN | 0.45m O.C. |
- 20 | Epimedium x versicolor | Epimedium | # | CAN | 0.35m O.C. |
- 209 | Euonymus japonica | Japanese Spirea | # | CAN | 0.45m O.C. |
- 181 | Salix alba | White Willow | # | CAN | 0.35m O.C. |
- 185 | Viburnum 'Stokesia de Oro' | 'Stokesia de Oro' Viburnum | # | CAN | 0.48m O.C. |
- 70 | Heuchera 'Palace Purple' | 'Palace Purple' Coral Bells | # | CAN | 0.45m O.C. |
- 15 | Liriope muscari 'Maiden Hair' | 'Maiden Hair' Liriope | # | CAN | 0.45m O.C. |
- 113 | Snakeskin 'Butterfly Blue' | 'Butterfly Blue' Snakeskin | # | CAN | 0.45m O.C. |
- 85 | Totara cordifolia | Totara Cordifolia | # | CAN | 0.45m O.C. |

### GROUND COVER

- 750 | 100mm | Ground Ivy | 100 mm | Peat and 0.3m O.C. |

## GARDEN LAYOUT PLAN

### GARDEN SPHERE AND BASE DETAIL

- Stone sphere with base
- Stone sphere with base and fence
- Stone sphere with base and fencing
- Stone sphere with base and wall
- Stone sphere with base and hedge
- Stone sphere with base and gate
- Stone sphere with base and entrance
- Stone sphere with base and driveway
- Stone sphere with base and path
- Stone sphere with base and trellis

### GARDEN PLANTING PLAN DETAIL

- Planting schedule
- Planting list
- Planting details
- Planting instructions
- Planting specifications
- Planting guidelines
- Planting considerations
<table>
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<th>FIXTURE</th>
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<th>CATALOG NUMBER</th>
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<td>MH</td>
<td>POLE</td>
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<td>SAME AS 'A' EXCEPT TWO SET-UP, PROVIDE 4-TYPE 'C' FIXTURES WITH CLIFFORD BROWN SYMBOL. AT CLIFFORD BROWN WALK INTERSECTION</td>
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<td>B1</td>
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### GENERAL NOTES

ELECTRICAL SYSTEM HAS BEEN DESIGNED FOR THE LATEST NATIONAL ELECTRICAL CODE (NEC). MATERIALS AND EQUIPMENT SHALL CONFORM TO THE STANDARDS WHERE APPLICABLE OF THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA). NATIONAL ELECTRICAL CODE (NEC), AND UNDER-WRITERS LABORATORIES (UL). LATEST EDITIONS, WORK SHALL CONFORM TO APPLICABLE FEDERAL, STATE, LOCAL, & CODES. TRADE NAMES USED WILL BE OF ESTABLISHED QUALITY ONLY SUBSTITUTIONS WILL NOT BE APPROVED. BUILDING ELECTRICAL CONTRACTOR (EC) SHALL CALL TO THE ENGINEER'S ATTENTION ANY DIFFERENCES AND/OR OMISSIONS IN CONTRACT, DRAWINGS & SPECIFICATION.見積의⟩의 단일 개요의 동시가동성 확인 및 그에 따른 의사소통이 필요합니다. 건물의 모든 전기 기기와 사용자 지정된 표준을 만족해야 함을 알립니다. 이는 특히 다음의 사항을 주의해야 합니다:

### ELECTRICAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL HAVE THE COMPLETE INSTALLATION HARDSHIP IN COMPLETION OF WORK BY MIDDLE DEPARTMENT AT ITS EXPENSE. CERTIFICATE OF INSPECTION SHALL BE TRANSFERRED TO OWNER.

2. THE ELECTRICAL CONTRACTOR SHALL BE HONEST ON HIS EXPENSE AND ACCURATE AS REQUIRED.

3. ALL MATERIAL SHALL BE NEW AND BE ARMS AND LEGS, OR LISTING OF A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY SUCH AS UL, FM, ETC.

4. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL DIAMETERS AND CONDITIONS AT SITE PRIOR TO STARTING WORK.

5. THE ELECTRICAL CONTRACTOR SHALL VERIFY QUANTITIES PRIOR TO ORDERING MATERIALS.

6. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE CONSTRUCTION SUPERINTENDENT AND LATEST CODES OF ARCHITECTURAL AND ELECTRICAL DRAWINGS. ALL LOCATIONS SHALL BE CHECKED TO VERIFY ROOF-LOCATIONS IN ADDITION TO ALL CONSTRUCTION DRAWINGS.

7. ALL OPENINGS SHALL BE SEALED UPON COMPLETION OF INSTALLATION TO PREVENT SPREAD OF SMOKE OR FIRE THROUGH OPENINGS. OPENINGS TO ROOF-MOUNTED EQUIPMENT SHALL BE SEALED TO PREVENT WATERS.

8. THE ELECTRICAL CONTRACTOR SHALL APPLY IN WRITING FOR ANY INFORMATION REQUIRED AS PART OF THE STORES OF WORK PRIOR TO ACTUAL NEEDING OF THIS INFORMATION FOR EXECUTION OF WORK. NO CHANGES OF EQUIPMENT, LOCATION, CONDUCTOR MATERIAL, FINE OR GAUGE, AS WELL AS SOURCES OF SUPPLY, SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE PROJECT ENGINEER. SAMPLES AND LITERATURE OF MATERIALS SHALL BE PROVIDED WHEN REQUESTED BY ARCHITECT OR ENGINEER.

9. THE ELECTRICAL CONTRACTOR SHALL KEEP ONE SET OF THE LATEST ISSUE OF ELECTRICAL MUD IN WHICH TO REFLECT THE ACTUAL INSTALLED CONDITIONS AND CONDITIONS OF ALL EQUIMENT AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL PROVIDE COPIES OF ALL MAINTENANCE, INFORMATION AND INSTRUCTIONS NECESSARY TO EQUIPMENT AND SYSTEMS. ALL AS BUILT DRAWINGS AND INSTALLATION INFORMATION SHALL BE SUBMITTED TO ARCHITECT FOR INCORPORATION IN AS BUILT DOCUMENTS AT THE COMPLETION OF CONSTRUCTION.

10. THE ELECTRICAL CONTRACTOR SHALL BE FREE FROM DEFECTS FOR A ONE YEAR PERIOD FROM THE DATE OF ACCEPTANCE OF ANY DEFECTS OCCURRING DURING THIS PERIOD SHALL BE CORRECTED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

11. COORDINATE WITH SUBURBAN CABLES WORTH WORK. ALL WORKED PERMITTED SHALL BE FINISHED WITH THE NECESSARY PARTS FOR COMPLETE INSTALLATION.

12. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL THE CONTRACTORS INVOLVED IN THIS PROJECT.

13. EXISTING DIAL POLES TO BE LOCATED AS DESIGNED IN THE FOLLOWING LOCATIONS:

- 15A-120V DUPLEX RECEPTACLE

- SINGLE HEAD LUMINAIRE

- TWIN HEAD LUMINAIRE

- PHOTOCELL CONTROL

- LIGHTING FIXTURE 'C' TYPE

- BRANCH LIGHTING CIRCUIT

- LIGHT STANDARD CIRCUIT

- CONDUIT RUN IDENTIFIER FOR COMMUNICATION CABLES

- LIGHTING BRANCH CIRCUIT

- CONDUIT RUN IDENTIFIER

- SHEET REFERENCE NO.
UTILITY CO. SHALL CONNECT ELECTRIC SUPPLY WIRE TO EXISTING OVERHEAD SOURCE AT D.P. & L'S POLES AS INDICATED (TYPICAL)
1. This work shall consist of the maintenance of traffic and the protection of the traveling public approaching the construction area and within the limits of construction.

2. Immediately upon completion of the work, the devices shall be removed by the contractor and unless otherwise specified in the special provisions will remain his property.

3. Remove all constructing payment markings. Payment will be incidental to Item 760000 Maintenance of Traffic.

4. The contractor must provide ingress and egress to all commercial establishments and residences situated adjacent to all construction areas.

5. Exact location of stage limit lines to be determined in the field by the engineer.

6. Do not leave a roadside drop-off (“U” or greater) adjacent to traveled lanes during non-hourly, bearing being adjacent to the pavement to assure that there is no drop-off.

7. Maintain access to bus stops during construction. Notify chief of schedules at Dart, first state, prior to affecting traffic.

8. The contractor shall coordinate the installation of traffic signals with the DOT traffic unit. A temporary traffic signal shall be maintained throughout the project site. Existing traffic signals will remain operational until all new signals are installed and operational.

9. Coordinate the closing of all side streets with the City of Waco.

CONSTRUCTION SEQUENCE

STAGE I
Perform curb and sidewalk construction on the north side of 11th Street from Walnut Street to the limit of construction in Ruskwood Park.

Perform the curb and sidewalk construction on the east side of Church Street.

STAGE II
Perform curb and sidewalk construction on the south side of 11th Street in the following phases:

Phase A—Walnut Street to Clifford Brown Walk.
Phase B—Clifford Brown Walk to Pine Street.
Phase C—Pine Street to Spruce Street.
Phase D—Spruce Street to Bennett Street.
Phase E—Bennett Street to Church Street.

STAGE III
Perform curb construction in the median area from Spruce Street to Church Street.
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