Appendix D

V8 City Details.cel
V8 CITY DETAILS.CEL

NAME: ANODE JBOX

DESCRIPTION: ANODE JUNCTION BOX
NAME: ANODE MAGNESIUM

DESCRIPTION: ANODE MAGNESIUM

NOTES:
1. SEE TECHNICAL SPECIFICATIONS FOR ANODE INSTALLATION REQUIREMENTS.
2. DO NOT SUSPEND ANODE WITH LEAD WIRE.
3. APPROXIMATE MAGNESIUM INGOT SIZE: 6" X 5" X 32" LONG, WT. 48 POUNDS.

MAGNESIUM ANODE

HIGH POTENTIAL

Alloy Composition

<table>
<thead>
<tr>
<th>Element</th>
<th>Weight %</th>
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</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>0.01% MAX</td>
</tr>
<tr>
<td>Manganese</td>
<td>0.50-1.30%</td>
</tr>
<tr>
<td>Copper</td>
<td>0.001% MAX</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.001% MAX</td>
</tr>
<tr>
<td>Iron</td>
<td>0.025% MAX</td>
</tr>
<tr>
<td>Silicon</td>
<td>0.002% MAX</td>
</tr>
<tr>
<td>Other</td>
<td>0.005% EACH or 0.30% MAX TOTAL</td>
</tr>
<tr>
<td>Magnesium</td>
<td>Remainder</td>
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</tbody>
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SPECIAL BACKFILL COMPOSITION
75% GYPSUM
20% BENTONITE
5% SODIUM SULFATE
V8 CITY DETAILS.CEL

ANODE JUNCTION BOX SCHEDULE

@ P.L. STATIONS

<table>
<thead>
<tr>
<th>@PL STATIONS</th>
<th>364+41</th>
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<tbody>
<tr>
<td></td>
<td>330+00</td>
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<tr>
<td></td>
<td>394+64</td>
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<tr>
<td></td>
<td>364+41</td>
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</tbody>
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FIBER GLASS JUNCTION BOX

COPPER BUS BAR

CABLE IDENTIFIER (TYP.) SEE DETAIL

LABELS AS INDICATED

1/4" THICK NICARTA BOARD

AWG #10 TWIN-STRANDED ANODE LEAD CABLE (TYP.) (BLACK)

SEAL CONDUIT AGAINST INFILTRATION WITH SILICON SEALANT

2" SCH 40 PVC CONDUIT

NOTE:
1. NUMBER OF ANODES AS REQUIRED SEE ANODE SCHEDULE ON
2. ANODES SHALL NOT BE CONNECTED UNTIL NATIVE POTENTIALS HAVE BEEN MEASURED.

TYPICAL ANODE JUNCTION BOX
MULTIPLE ANODE INSTALLATION

NOT TO SCALE

NAME: ANODE MULTI JBOX

DESCRIPTION: ANODE MULTIPLE JUNCTION BOX

City-wide CADD Standards
NAME: ANODE TYP

DESCRIPTION: ANODE TYPICAL
## Description: Bell Spigot Liner Plate

**Name:** Bell Spigot Liner Plate

**Origin:**

### Typical 16 Foot Bell & Spigot Liner Plate Detail

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Notes</th>
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<tbody>
<tr>
<td>BELL END</td>
<td>SPIGOT END</td>
</tr>
<tr>
<td>BELL END</td>
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<td>BELL END</td>
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<tr>
<td>BELL END</td>
<td>SPIGOT END</td>
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### Typical Details:
- Bell I.D. can be SPIGOT O.D. + .125 MAX
- Tack - Type: 8 Pads
- Backup Bar (Typ, 3 Locations)
- Holddown Bar on Both Sides (Standard Joints) unless noted otherwise

### City-wide CADD Standards

1. **V8 CITY DETAILS.CEL**
2. **Appendix D**

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The diagram illustrates a typical 16-foot bell and spigot liner plate detail with various dimensions and notes for alignment and assembly.
NAME: BELL SPIGOT WELD

DESCRIPTION: BELL SPIGOT WELD
NAME: BUTT STRAP DETAIL

DESCRIPTION: BUTT STRAP DETAIL

NOTE: 1/2" MORTAR Lining and 1/2" REINFORCED MORTAR COATING PLACED IN FIELD AT BUTT STRAP CONNECTIONS (NOT SHOWN)
NAME: BUTT STRAP SPLICE

DESCRIPTION: BUTT STRAP SPLICE

1/4" X 1" BACKING PLATE IN GAP FOR FULL WIDTH OF JOINT.

STEEL CYLINDER BEYOND

NOT TO SCALE

Origin
NAME: CLOSURE ACCESS PIPE

DESCRIPTION: CLOSURE ACCESS PIPE
NAME: CLOSURE DETAIL

DESCRIPTION: CLOSURE DETAIL
NAME: COMM DISPLAY HORIZ

DESCRIPTION: COMMUNITY DISPLAY HORIZ
V8 CITY DETAILS.CEL

NAME: COMM DISPLAY VERT

DESCRIPTION: COMMUNITY DISPLAY VERT
V8 CITY DETAILS.CEL

City Details.cel
Revised 5/22/05
NAME: DBL WELD FIELD JOINT

DESCRIPTION: DOUBLE WELDD FIELD JOINT

DOUBLE WELDED FIELD JOINT DETAIL
FOR EX. 54" SPIRAL WELDED STEEL BELL TO NEW 54" STEEL FLANGED

NOT TO SCALE
NAME: DBL WELD LAP JOINT

DESCRIPTION: DOUBLE WELD LAP JOINT

DOUBLE-WELDED LAP JOINT FOR PROPOSED 54" PIPE

NOT TO SCALE
NAME: END CONNECTION

DESCRIPTION: END CONNECTION
NAME: END CONNECTOR RINGS

DESCRIPTION: END CONNECTOR RINGS
NAME: EXOTHERMIC WELD

DESCRIPTION: EXOTHERMIC WELD

1. Clean area of steel surface approximately 2" x 2" for eachCadweld connection. Wire brush and scrape to obtain SPC-SP-5 white metal surface finish.
2. Strip cable end and twist to fit Cadweld mold. Minimum spacing between welds will be determined by mold geometry, nominally 6".
3. Hold mold firmly against pipe with opening away from operator, ignite with flint gun.
4. Remove all weld slag and spatter, sharp edges and burrs with metal file.
5. Wipe pipe surface with clean, oil free rags to remove any loose dust.
6. Coat Cadweld and strip cable tail with compatible coating such that all corners are filled. The coating shall extend for at least 2" around the Cadweld.
7. Cadweld cartridge shall be compatible to steel materials. Multiple cartridge charges shall not be used. If a Cadweld weld must be repeated, a new pipe surface must be prepared at least 6" from the original weld attempt. More than one weld attempt on the same spot shall not be permitted.
8. Test strength of connection by tapping with 22-ounce hammer.
NAME: FIBER ROLL

DESCRIPTION: FIBER ROLL
NAME: INSUL FLANGE
DIELECTRIC

DESCRIPTION: INSULATION FLANGE
DIELECTRIC

City-wide CADD Standards
NAME: INSUL SHEET

DESCRIPTION: INSULATION SHEET
NAME: LINER PLATE STRAP

DESCRIPTION: LINER PLATE STRAPPING

NOTE: TWO (2) STRAPS AND TIE BARS REQUIRED FOR EACH LINER PLATE JOINT AS SHOWN. IF A THIRD STRAP AND TIE IS REQUIRED, PLACE AT CENTER AND MOVE OTHER STRAPS AND TIE BARS 6" CLOSER TO END. DO NOT PLACE OVER GROUT COUPLINGS.

DETAIL- LINER PLATE STRAPPING FOR SHIPPING

NOT TO SCALE
NOTES:
1. 3 WIRES ACROSS ASSEMBLY JOINT FOR PIPE LARGER THAN 24". DETAIL SHOWN FOR 24" OR SMALLER PIPE.
2. REPAIR COATING AT WELDS.
3. BOND WIRES SHALL BE AS SHORT AS POSSIBLE.
4. FIELD COAT ASSEMBLY VALVES, FLANGE, COUPLINGS, ETC., PER AWWA C21 PETROLATUM WAX TAPE COATING.

NAME: MECH JOIN

DESCRIPTION: MECHANICAL JOINT
NAME: SD CB PROTECTION 1

DESCRIPTION: SD CATCH BASIN PROTECTION 1
V8 CITY DETAILS.CEL

CATCH BASIN INLET PROTECTION
IN GRADED AREAS

NOTES:
1. FOR USE IN AREAS WHERE GRADING HAS BEEN COMPLETED AND FINAL SOIL STABILIZATION AND SEEDING ARE PENDING
2. NOT APPLICABLE FOR PAVED AREAS
3. NOT APPLICABLE WITH CONCENTRATED FLOWS

NAME: SD CB PROTECTION 2

DESCRIPTION: SD CATCH BASIN PROTECTION 2
V8 CITY DETAILS.CEL

STORM DRAIN INLET PROTECTION

NOTE: FILTER FABRIC
MATERIAL: POLYETHYLENE OR POLYPROPYLENE FABRIC
FABRIC WEIGHT: MINIMUM 4 OZ./ SQUARE YARD
MINIMUM WATER FLOW RATE: 125 GPM/SF (PER ASTM D4491)
MINIMUM TENSILE STRENGTH: 120 LBS. (PER ASTM D4632)

NAME: SD INLET PROTECTION

DESCRIPTION: SD INLET PROTECTION

City-wide CADD Standards 26
NAME: SILT FENCE DETAIL

DESCRIPTION: SILT FENCE DETAIL
**SILT FENCE NOTES:**

1. Setback distance may vary to fit field condition.
2. Stakes shall be spaced at 8 ft maximum and shall be positioned on downstream side of fence.
3. Stake dimensions are nominal.
4. Minimum 4 staples per stake.
5. At joining section, stakes to overlap and fence fabric to fold around each stake one full turn, secure fabric to stake with 4 staples.
6. Stakes shall be driven tightly together to prevent potential flow-through of sediment at joint. The tops of the stakes shall be secured with wire.
7. Joining sections shall not be placed at sump locations.
8. For end stake, fence fabric shall be folded around two stakes one full turn and secured with 4 staples.
9. The last 8 ft of fence shall be turned up slope.
10. Maintenance openings shall be constructed in a manner to ensure sediment remains behind silt fence.
11. Cross barriers shall be a minimum of 1/3 and a maximum of 1/2 the height of the silt fence.
12. Gravel bag rows and layers shall be offset to eliminate gaps.
13. Construct the length of each reach so that the change in base elevation along the reach does not exceed 1/3 the height of the silt fence. In no case shall the reach length exceed 500 ft.
14. See specifications for material requirements.

**NAME:** SILT FENCE NOTES

**DESCRIPTION:** SILT FENCE NOTES

City-wide CADD Standards
NAME: STAB CONST ENTRANCE

DESCRIPTION: STABILIZED CONSTRUCTION ENTRANCE

City-wide CADD Standards
NAME: TEST STATION 2 WIRE

DESCRIPTION: 2 WIRE TEST STATION

City-wide CADD Standards
TEST STATION HOUSING

DESCRIPTION: TEST STATION HOUSING

NAME: TEST STATION HOUSING

NOTE: PROVIDE A MINIMUM OF 18" OF SLACK IN EACH WIRE WITHIN THE TEST BOX.
NAME: TEST STATION INSUL FLANGE

DESCRIPTION: TEST STATION INSULATION FLANGE
NAME: TYP SEC

DESCRIPTION: TYPICAL SECTION
NAME: WATER HORIZ CROSSING

DESCRIPTION: WATER HORIZ CROSSING
NAME: WIRE IDENTIFIER

DESCRIPTION: WIRE IDENTIFIER
NAME: WIRE IDENTIFIER

DESCRIPTION: WIRE IDENTIFIER