BOX ELDER COUNTY
ROAD, STORM DRAIN, AND FENCING
STANDARD DRAWINGS

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JANUARY 2010

CONSULTING ENGINEERS
1716 East 5400 South
South Ogden, Utah 84403 (801) 476-9767
# ROAD SECTION
MINIMUM RESIDENTIAL ACCESS, PRIVATE ROAD AND PRIVATE DRIVEWAY
(SERVING 1 OR 2 LOTS) FOR DRIVEWAYS OVER 300' LONG

GENERAL NOTE:
1. All driveway drainage swales shall be filled in and shall be maintained by the homeowner.
2. Minimum cross section shall be 5' wide by 10' deep.

Minimum Undrained Base Course, Gravel or 8" of 3" minus gravel material or 4' of Road Base

MID TOWN

MINIMUM 10' UNDRAINED BASE COURSE, GRAVEL OR 8" OF 3" MINUS GRAVEL MATERIAL OR 4' OF ROAD BASE

NOTE:
1. Use gravel base course thicknesses shall be considered at the county standards, but may be increased if the county engineer deems it necessary, by fabric added to the gravel, to provide sufficient stability. Designs and/or specifications may submit an alternative pavement design based on the stability of the material. The maximum aggregate size for the road shall be 3/4". The gravel base course shall be placed in the swale area of the driveway to provide adequate drainage. In no case shall the gravel base course be less than 5" Gravel base course shall be 8".

# ROAD SECTION
STANDARD GRAVEL PUBLIC ROAD
APPLIES WHERE LOTS ARE 1 ACRE OR LARGER

GENERAL NOTE:
1. A 5' road section can be considered a continuous new subdivision for road construction. This subsection applies to the construction of a new public road. The new road shall be a minimum of 8' wide. The design engineer shall submit an alternative pavement design based on the stability of the material. The maximum aggregate size for the road shall be 3/4". In no case shall the 8" gravel base course be less than 5".

# ROAD SECTION
STANDARD GRAVEL PUBLIC ROAD
APPLIES WHERE LOTS ARE 1/2 ACRE LOT ZONES OR LOTS LESS THAN 1 ACRE IN UNZONED AREAS

GENERAL NOTE:
1. A 5' road section can be considered a continuous new subdivision for road construction. This subsection applies to the construction of a new public road. The new road shall be a minimum of 8' wide. The design engineer shall submit an alternative pavement design based on the stability of the material. The maximum aggregate size for the road shall be 3/4". In no case shall the 8" gravel base course be less than 5".

# ROAD SECTION
STANDARD COLLECTOR PUBLIC ROAD
APPLIES WHERE LOTS ARE 1/2 ACRE LOT ZONES OR LOTS LESS THAN 1 ACRE IN UNZONED AREAS

GENERAL NOTE:
1. A 5' road section can be considered a continuous new subdivision for road construction. This subsection applies to the construction of a new public road. The new road shall be a minimum of 8' wide. The design engineer shall submit an alternative pavement design based on the stability of the material. The maximum aggregate size for the road shall be 3/4". In no case shall the 8" gravel base course be less than 5".

# ROAD SECTION
STANDARD URBAN RESIDENTIAL PUBBLIC ROAD
APPLIES WHERE LOTS ARE 1 ACRE OR LARGER

NOTE:
1. A 3' road section can be considered a continuous new subdivision for road construction. This subsection applies to the construction of a new public road. The new road shall be a minimum of 8' wide. The design engineer shall submit an alternative pavement design based on the stability of the material. The maximum aggregate size for the road shall be 3/4". In no case shall the 8" gravel base course be less than 5".

# ROAD SECTION
STANDARD URBAN RESIDENTIAL PUBBLIC ROAD
APPLIES WHERE LOTS ARE 1/2 ACRE LOT ZONES OR LOTS LESS THAN 1 ACRE IN UNZONED AREAS

NOTE:
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# ROAD SECTION
STANDARD URBAN COLLECTOR PUBLIC ROAD
APPLIES WHERE LOTS ARE 1/2 ACRE LOT ZONES OR LOTS LESS THAN 1 ACRE IN UNZONED AREAS

NOTE:
1. A 3' road section can be considered a continuous new subdivision for road construction. This subsection applies to the construction of a new public road. The new road shall be a minimum of 8' wide. The design engineer shall submit an alternative pavement design based on the stability of the material. The maximum aggregate size for the road shall be 3/4". In no case shall the 8" gravel base course be less than 5".

# ROAD SECTION
STANDARD PAVED PUBBLIC ROAD
APPLIES WHERE LOTS ARE 1 ACRE OR LARGER

NOTE:
1. A 5' road section can be considered a continuous new subdivision for road construction. This subsection applies to the construction of a new public road. The new road shall be a minimum of 8' wide. The design engineer shall submit an alternative pavement design based on the stability of the material. The maximum aggregate size for the road shall be 3/4". In no case shall the 8" gravel base course be less than 5".

# ROAD SECTION
STANDARD PAVED PUBBLIC ROAD
APPLIES WHERE LOTS ARE 1/2 ACRE LOT ZONES OR LOTS LESS THAN 1 ACRE IN UNZONED AREAS

NOTE:
1. A 3' road section can be considered a continuous new subdivision for road construction. This subsection applies to the construction of a new public road. The new road shall be a minimum of 8' wide. The design engineer shall submit an alternative pavement design based on the stability of the material. The maximum aggregate size for the road shall be 3/4". In no case shall the 8" gravel base course be less than 5".

# ROAD SECTION
STANDARD URBAN COLLECTOR PUBLIC ROAD
APPLIES WHERE LOTS ARE 1/2 ACRE LOT ZONES OR LOTS LESS THAN 1 ACRE IN UNZONED AREAS

NOTE:
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BOX ELDER COUNTY
ROAD STORM DRAIN, AND FENCING STANDARD DRAWINGS
ROADWAY SECTIONS

JA CONSULTING ENGINEERS
1700 East 5000 South
Salt Lake City, Utah 84103
(801) 479-0757
PLAN

SECTION A-A

TYPE I CATCH BASIN

SECTION B-B

TYPE II CATCH BASIN

SECTION C-C

CATCH BASIN SCHEDULE

<table>
<thead>
<tr>
<th>TYPE</th>
<th>GRADES</th>
<th>DRAIN COLLECTION</th>
</tr>
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<tbody>
<tr>
<td>I</td>
<td>DOUBLE</td>
<td>ONE DIRECTION</td>
</tr>
<tr>
<td>II</td>
<td>SINGLE</td>
<td>ONE DIRECTION</td>
</tr>
<tr>
<td>III</td>
<td>DOUBLE</td>
<td>TWO DIRECTIONS</td>
</tr>
<tr>
<td>IV</td>
<td>SINGLE</td>
<td>TWO DIRECTIONS</td>
</tr>
<tr>
<td>V</td>
<td>SINGLE</td>
<td>WITHOUT CURB &amp; GUTTER</td>
</tr>
</tbody>
</table>

CATCH BASIN STYLES:
- STANDARD - OPEN FACE CURB & GUTTER
- ALTERNATIVE 1 - PVC CURB & GUTTER
- ALTERNATIVE 2 - PVC CATCH BASIN

NOTE: GRAVE & FRAME MAY BE REQUIRED TO INCREASE DRAINAGE COLLECTION AS DIRECTED BY THE COUNTY ENGINEER.

NOTE: ALL BASES TO BE DOUBLE TONGUED AND ARE TO BE APPROVED BY THE COUNTY PRIOR TO READING CONCRETE.

RETURN TO STANDARD CURB & GUTTER

FL ExCEIVE OF GUTTER

FLOW

RETURN TO STANDARD CURB & GUTTER

FL ExCEIVE OF GUTTER

FLOW

RETURN TO STANDARD CURB & GUTTER

FL ExCEIVE OF GUTTER

FLOW

NOTE:
- ALL MANHOLLES TO PASS GRADE OF STREET FLOWAGE PAVING WITH A CONCRETE CURB. CURB TO BE FIELD CAST U-A, BELOW TOP OF FLOWAGE PAVING. MANHOLE UP TO BE FIELD CAST U-A, BELOW CURB. CURB.
- 48" WADE MANHOLE SECTION
- 48" PRE-CAST COVER IN/CUT
- 15" ML. PCC. C/C OR A/C AS APPROVED BY CITY ENGINEER
CATTLE GUARD PLAN

SECTION A-A

RAIL DETAIL

ROADWAY: MIN. WIDTH 20' - MAX. WIDTH 24'

APPROVED