Notes:

1. **CULINARY WATER SHALL BE PLACED ON THE NORTH AND WEST OF STREET CENTERLINE.**
2. **SANITARY SEWER SHALL BE PLACED ON THE SOUTH AND EAST OF STREET CENTER LINE.**
3. **STORM DRAIN SHALL BE PLACED ON THE NORTH AND WEST SIDE OF STREET.**
4. **SECONDARY WATER SHALL BE PLACED ON THE SOUTH AND EAST SIDE OF STREET.**
Notes:

1. MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF HERRIMAN ENGINEERING STANDARD SPECIFICATIONS.

2. TRANSITION STRUCTURE SHALL BE IN ACCORDANCE WITH APWA PLAN NO. 213.

3. CURB AND GUTTER SHALL BE TYPE A IN ACCORDANCE WITH APWA PLAN NO. 205.

4. CROSS DRAIN GUTTER NOT ALLOWED ACROSS COLLECTORS OR ARTERIALS.
APWA PLAN NO. 205
TYPE A CURB AND GUTTER
AROUND CUL-DE-SAC

RIGHT OF WAY LINE

APWA STANDARD
PLAN NO. 205 TYPE A CURB AND GUTTER

PLANTER STRIP

SEND OF SIDEWALK SIGNING REQUIRED

R1

R2

R3

SIDEWALK

APWA STANDARD PLANTER STRIP

PLAN NO. 205 TYPE A CURB AND GUTTER

SEND OF SIDEWALK SIGNING REQUIRED

R1

R2

R3

SIDEWALK

ALL TEMPORARY CUL-DE-SAC VARIATIONS MUST HAVE APPROVAL OF CITY ENGINEER AND CITY FIRE AUTHORITY

<table>
<thead>
<tr>
<th></th>
<th>RESIDENTIAL</th>
<th>INDUSTRIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>48</td>
<td>60</td>
</tr>
<tr>
<td>R2</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>R3</td>
<td>35</td>
<td>35</td>
</tr>
</tbody>
</table>

*R2 = R3 - WIDTH OF SIDEWALK - WIDTH OF PLANTER
NOTES:

1. ELEVATIONS ARE REQUIRED WHERE CIRCLED.

2. LIMITS OF SLOPE, CROWN LINE TO OUTSIDE GUTTER: MAXIMUM 4%; MINIMUM=1%
Notes:
1. ALL MOUNTING HARDWARE, POST, CAP AND BASE TO BE POWDER COATED SATIN BLACK (OR EQUIVALENT).
2. INSTALL SIGN PER APWA 32 01 06.
3. EACH SET OF STREET NAME SIGNS SHALL HAVE ITS OWN SIGN POST. NO OTHER SIGNS SHALL BE MOUNTED ON THE POST WITH THE STREET NAME SIGNS EXCEPT FOR DEAD END BLADES (W14-1A & W14-2A).
4. ALL STREET NAME SIGNS SHALL BE 7'-0" MINIMUM FROM GROUND TO BOTTOM OF SIGN.
NOTES:

1. ALL MOUNTING HARDWARE, POST, CAP AND BASE TO BE POWDER COATED SATIN BLACK (OR EQUIVALENT).
2. INSTALL SIGN PER APWA 32 01 05.
3. ALL INFORMATION, REGULATORY AND WARNING SIGNS SHALL BE 7'-0" MINIMUM FROM GROUND TO BOTTOM OF SIGN, PER MUTCD.
**A** DETAIL - MINIMUM CLEARANCE AROUND FIRE HYDRANT
SCALE: NO SCALE

**B** DETAIL - ACCEPTABLE ALTERNATIVE TO 120' HAMMERHEAD
SCALE: NO SCALE

**C** DETAIL - 120' HAMMERHEAD
SCALE: NO SCALE

**D** DETAIL - 96' DIA. CUL-DE-SAC
SCALE: NO SCALE

**E** DETAIL - 60' "Y"
SCALE: NO SCALE

**F** DETAIL - TABLE
SCALE: NO SCALE

**G** DETAIL - SIGN TYPE "A"
SCALE: NO SCALE

**H** DETAIL - SIGN TYPE "C"
SCALE: NO SCALE

**I** DETAIL - SIGN TYPE "D"
SCALE: NO SCALE

**TABLE: REQUIREMENTS FOR DEAD-END FIRE APPARATUS ACCESS ROADS**

<table>
<thead>
<tr>
<th>LENGTH (FEET)</th>
<th>WIDTH (FEET)</th>
<th>TURNAROUNDS REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-150</td>
<td>20</td>
<td>NONE REQUIRED</td>
</tr>
<tr>
<td>151-500</td>
<td>20</td>
<td>120-FOOT HAMMERHEAD, 60-FOOT &quot;Y&quot; OR 96-FOOT-DIAMETER CUL-DE-SAC IN ACCORDANCE WITH FIGURE BELOW</td>
</tr>
<tr>
<td>501-750</td>
<td>20</td>
<td>120-FOOT HAMMERHEAD, 60-FOOT &quot;Y&quot; OR 96-FOOT-DIAMETER CUL-DE-SAC IN ACCORDANCE WITH FIGURE BELOW</td>
</tr>
<tr>
<td>OVER 750</td>
<td>20</td>
<td>SPECIAL APPROVAL REQUIRED</td>
</tr>
</tbody>
</table>

SEE NOTES ON RD-07A

HERRIMAN CITY
ENGINEERING DEPARTMENT
ROADWAY
FIRE APPARATUS ACCESS ROADS
NOTES:

1. FIRE APPARATUS ACCESS ROADS SHALL BE IN ACCORDANCE WITH THIS DETAIL AND ALL OTHER APPLICABLE REQUIREMENTS OF THE INTERNATIONAL FIRE CODE.

2. ACCESS AND LOADING. FACILITIES, BUILDINGS OR PORTIONS OF BUILDINGS HEREAFTER CONSTRUCTED SHALL BE ACCESSIBLE TO FIRE DEPARTMENT APPARATUS BY THE WAY OF AN APPROVED ALL-WEATHER MAINTAINABLE ACCESS ROAD WITH ASPHALT, OR CONCRETE CAPABLE OF SUPPORTING THE IMPOSED LOAD OF FIRE APPARATUS WEIGHING AT LEAST 75,000 POUNDS. ACCESS ROADS SHALL HAVE A MINIMUM CLEAR WIDTH OF 20 FEET AND A MINIMUM CLEAR HEIGHT OF 13 FEET 6 INCHES.

3. ACCESS ROAD WIDTH WITH A HYDRANT. WHERE A FIRE HYDRANT IS LOCATED ON A FIRE APPARATUS ACCESS ROAD, THE MINIMUM ROAD WIDTH SHALL BE 26 FEET.

4. GRADE. FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 10% IN GRADE. EXCEPTION: GRADES STEEPER THAN 10% AS APPROVED BY FIRE CODE OFFICIAL.

5. TURNING RADIUS. THE MINIMUM TURNING RADIUS SHALL BE 28 FOOT INSIDE DIAMETER AND 48 FOOT OUTSIDE DIAMETER FOR FIRE APPARATUS ACCESS ROADS.

6. DEAD ENDS. DEAD END FIRE APPARATUS ACCESS ROADS IN EXCESS OF 150 FEET SHALL BE PROVIDED WITH WIDTH AND TURNAROUND PROVISIONS IN ACCORDANCE WITH TABLE DETAIL F.

7. BRIDGES AND ELEVATED SURFACES. BRIDGES AND ELEVATED SURFACES MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES AND DESIGNED TO CARRY THE LOADS OF FIRE APPARATUS (75,000 POUNDS).

8. WHERE TWO ACCESS POINTS ARE REQUIRED, THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIMENSION OF THE PROPERTY OR AREA TO BE SERVED, MEASURED IN A STRAIGHT LINE BETWEEN ACCESSES.

9. FIRE APPARATUS ACCESS ROAD GATES. GATES SECURING THE FIRE APPARATUS ROADS SHALL BE APPROVED BY THE FIRE CODE OFFICIAL AND MUST COMPLY WITH ALL OF THE FOLLOWING CRITERIA:

9.A. THE MINIMUM GATE WIDTH SHALL BE 20 FEET FOR A SINGLE GATE, OR 12 FEET FOR A DOUBLE GATE.

9.B. GATES SHALL BE OF THE SWINGING OR SLIDING TYPE.

9.C. CONSTRUCTION OF GATES SHALL BE OF MATERIAL THAT ALLOW MANUAL OPERATION BY ONE PERSON.

9.D. GATE COMPONENTS SHALL BE MAINTAINED IN AN OPERATIVE CONDITION AT ALL TIMES AND REPLACED OR REPAIRED WHEN DEFECTIVE.

9.E. ELECTRIC GATES SHALL BE EQUIPPED WITH A MEANS OF OPENING THE GATE BY FIRE DEPARTMENT PERSONAL FOR EMERGENCY ACCESS. EMERGENCY OPENING DEVICES SHALL BE APPROVED BY THE FIRE CODE OFFICIAL.

9.F. MANUAL OPENING GATES SHALL NOT BE LOCKED WITH A PADLOCK OR CHAIN AND PADLOCK UNLESS THEY HAVE A KEY BOX CONTAINING THE KEY(S) TO THE LOCK IS INSTALLED AT THE GATE LOCATION.

9.G. LOCKING DEVICE SPECIFICATIONS SHALL BE SUBMITTED FOR APPROVAL BY THE FIRE CODE OFFICIAL.

10. SIGNS. WHERE REQUIRED BY THE FIRE CODE OFFICIAL, FIRE APPARATUS ACCESS ROADS SHALL BE MARKED WITH PERMANENT "NO PARKING- FIRE LANE" SIGNS COMPLYING WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION OR CURRENT EDITION. SIGNS SHALL HAVE A MINIMUM DIMENSION OF 12 INCHES WIDE BY 18 INCHES HIGH AND HAVE RED LETTERS ON A WHITE REFLECTIVE BACKGROUND. SIGNS SHALL BE POSTED ON ONE OR BOTH SIDES OF THE FIRE APPARATUS ROAD AS REQUIRED.

10.A. ROADS OR ALLEYS 20 TO 28 FEET WIDE SHALL BE POSTED ON BOTH SIDES AS A FIRE LANE.

10.B. ROADS 28 TO 32 FEET WIDE SHALL BE POSTED ON ONE SIDE OF THE ROAD (FIRE HYDRANT SIDE) WITH 150 FOOT SPACING.

10.C. ANY QUESTIONS PLEASE CALL FIRE CODE OFFICIAL @ 801-743-7221

HERRIMAN CITY ENGINEERING DEPARTMENT ROADWAY RD-07A
STREET TYPE

<table>
<thead>
<tr>
<th></th>
<th>T</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td></td>
<td>RESIDENTIAL (WITH PARK STRIP)</td>
</tr>
<tr>
<td>6&quot;</td>
<td></td>
<td>RESIDENTIAL (NO PARK STRIP)</td>
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</tbody>
</table>

REPLACEMENTS MATCH EXISTING 6" MIN.

SEE DRIVEWAY APPROACH PLANS FOR SIDEWALK THICKNESS AT DRIVEWAYS
FOLLOW APWA PLAN NO. 231

UNTREATED BASE COURSE 6" MIN.

FINISH

CONTROL JOINT EVERY 5'

EXPANSION JOINT EVERY 60'

CONCRETE

COMPACT SUBGRADE

2% SLOPE

HERRIMAN CITY ENGINEERING DEPARTMENT
ROADWAY CONCRETE SIDEWALK