STANDARD U-TURN FOR NARROW MEDIANS

PROFILE

PLAN

(INTERSTATE LAYOUT SHOWN)

PROFILE GRADE

SAG

PROFILE GRADE

SURFACING

MEDIAN WIDTHS 36' [10.8 m] TO 76' [22.8 m]
LOCATE AND CONSTRUCT TURNOUTS ABOVE IN CONJUNCTION WITH DITCH BLOCKS IF AT ALL POSSIBLE. PROVIDE DRAINAGE WHEN NECESSARY.

STANDARD U-TURN FOR NARROW MEDIANS

NOTES:
1. NARROW MEDIANS, MEDIAN WIDTHS GREATER THAN 76' [22.8 m] AND INDEPENDENT ROADWAYS REQUIRE SPECIAL DESIGN.
2. GRADES: UNIFORM BETWEEN INSIDE SHOULDERS OF MAIN TRAVELED WAY EXCEPT FOR SPECIAL DESIGN.
3. SURFACING: SEE PLANS FOR QUANTITIES.
4. DRAINAGE: USE 18" [450] OR 24" [600] CULVERTS IF REQUIRED.

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

MDT® MONTANA DEPARTMENT OF TRANSPORTATION

U-TURN MEDIAN OPENINGS
ON CONTROLLED ACCESS HIGHWAYS

EFFECTIVE: SEPTEMBER 2014

REFERENCES

DWG. NO. 900-00

SECTION STANDARD SPEC.
ADJUSTABLE MONUMENT BOX

1. Install the 4" (102) dia. pipe, concrete base and adjustable monument box as detailed. Place concrete in the pipe (up to 10" [255] below the top of the pipe) do not fill completely.

2. Position the center of the pipe to within 1/2" (13) horizontally of the desired coordinates and center the monument box over the pipe.

3. Depending on contract requirements, attach metal fasteners under the direct supervision of a Montana licensed professional land surveyor or contractor's parties under the direct supervision of a Montana licensed professional land surveyor. Fasten the pipe to the monument box to fill the remaining 10" (255) of the 4" (102) dia. pipe with concrete. Set and mark the brass or bronze monument within the box after construction. A Montana licensed professional land surveyor is required to prepare and file corner recordings in accordance with state statutes, Montana Administrative Rules of the land surveyor and provisions of the MDT survey manual. Provide copies of filed corner recordings to the project engineer, who will forward them to the district survey manager.

4. An acceptable brass monument is the "SUN-KAP M-M-BCS-2 1/2 D" or approved equal. An acceptable bronze monument is the "BERNTSEN C25DB" or approved equal.

5. Use class general concrete or approved equal.

NOTES:

- The 4" (102) dia. pipe, schedule 40 pipe (pipe material may be either aluminum or galvanized steel).
- Install 1 1/2" pipe (PCV) for gas, water, and oil. Use 4" (102) dia. pipe for gas, water, and sewer and 4" (102) dia. schedule 80 galvanized steel pipe for oil.
- Use a 4" (102) dia. backflow (split) check valve at entrance.
- Use Class general concrete or approved equal.
- Use Class general concrete or approved equal.

SECTION A-A

SECTION B-B

NOTES:

- Use a 4" (102) dia. backflow (split) check valve at entrance.
- Use Class general concrete or approved equal.
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UNITED STATES OF AMERICA

DEPARTMENT OF TRANSPORTATION

MONTANA DEPARTMENT OF TRANSPORTATION

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REVISED:

DETAILED DRAWING

REFERENCE:

W-00-35

SECTION:

ADJUSTABLE MONUMENT BOX

September 2014 -- Revised --}

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CONCRETE BASE

MONUMENT BOX

ASPHALT OR CONCRETE TO DRAIN

CONCRETE MOUND

DEPRESS 1/4" BELOW FINISH GRADE

BRASS OR BRONZE MONUMENT

MONUMENT BOX (HEAVY DUTY) OR APPROVED EQUAL

NEENAH FOUNDRY R-1968 TYPE 36-B ADJUSTABLE

SUBGRADE

COURSE AGGREGATE CRUSHED

GRADE FINISH

Brass or Bronze Monument

Asphalt or Concrete

To Drain

Concrete Mound

Depress 1/4" Below Finish Grade

Brass or Bronze Monument

Concrete Box (Heavy Duty) or Approved Equal

Neenah Foundry R-1968 Type 36-B Adjustable

Subgrade

Course Aggregate Crushed

Grade Finish

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