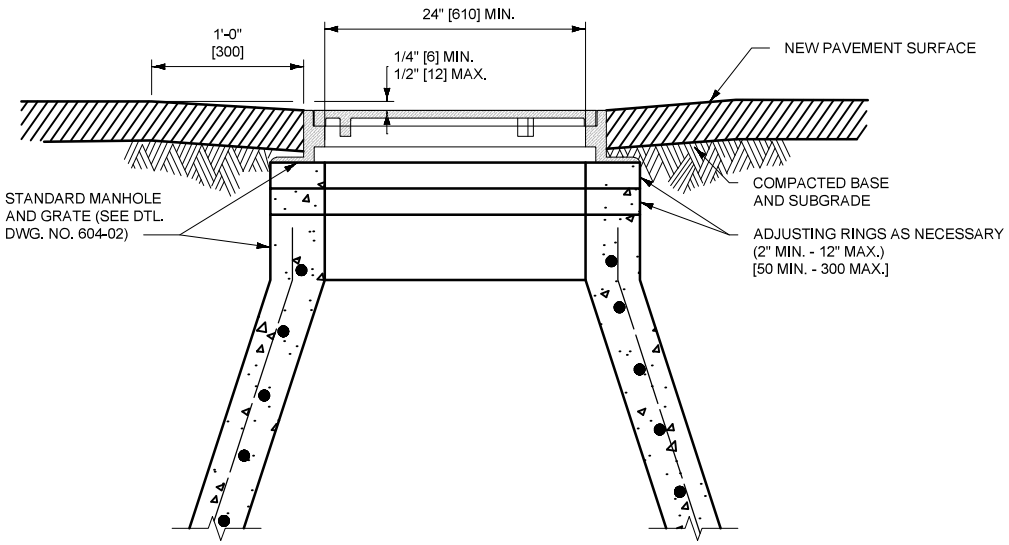



NOTES:

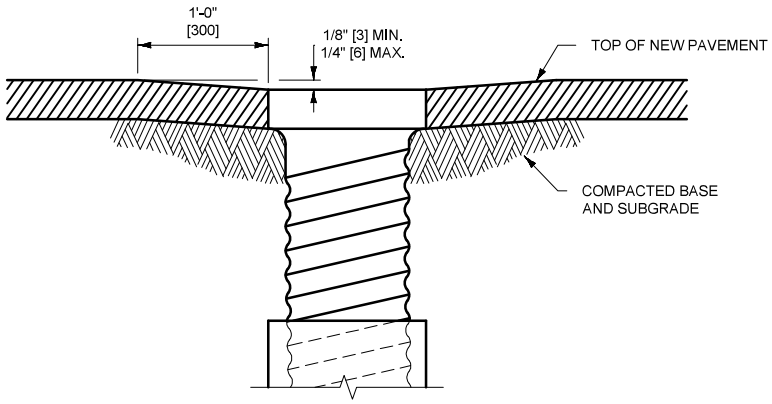
① RAISE MANHOLE LID FRAME ASSEMBLY TO NEEDED ELEVATION USING VERTICAL ADJUSTMENT RINGS.

② LOWER MANHOLE BY REPLACING CONE AND BARREL SECTION LENGTHS WITH SHORTER LENGTHS AS NEEDED.

③ SLOPE MANHOLE FRAME TO MATCH FINISHED SURFACING CROSS SLOPE.

④ MAKE FINAL MANHOLE ADJUSTMENTS BEFORE PAVING.

## MANHOLE ADJUSTMENT DETAIL




NOTES:

① ADJUST WATER VALVES UPWARD OR DOWNWARD AS REQUIRED.

② MAKE FINAL ADJUSTMENT BEFORE PAVING.

## VALVE BOX ADJUSTMENT DETAIL

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

**DETAILED DRAWINGS**

| REFERENCE | DWG. NO. |
|---|---|
| STANDARD SPEC. SECTION 604, 621 | 621-00 |

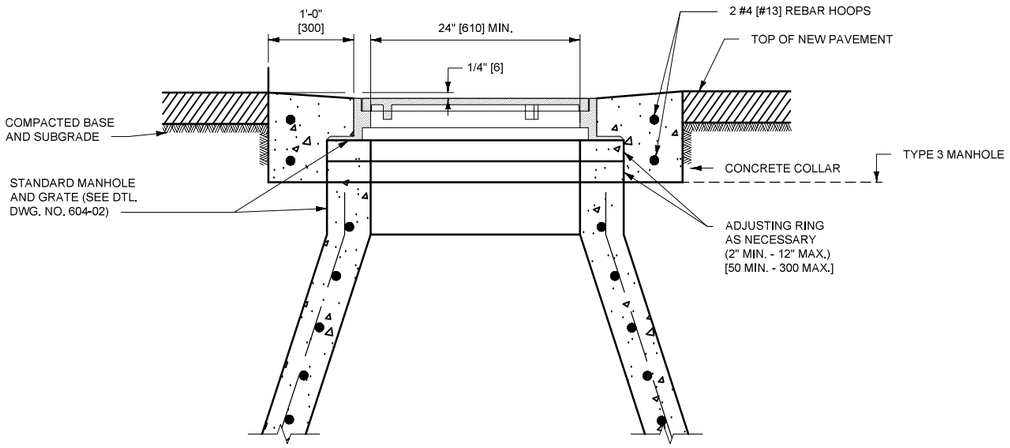
**MANHOLE AND VALVE BOX ADJUSTMENT DETAILS**

EFFECTIVE: JAN 23, 2024

MONTANA
Department of Transportation

| --REVISED-- |
|---|
| APR 28, 2022 |
| JUN 27, 2024 |

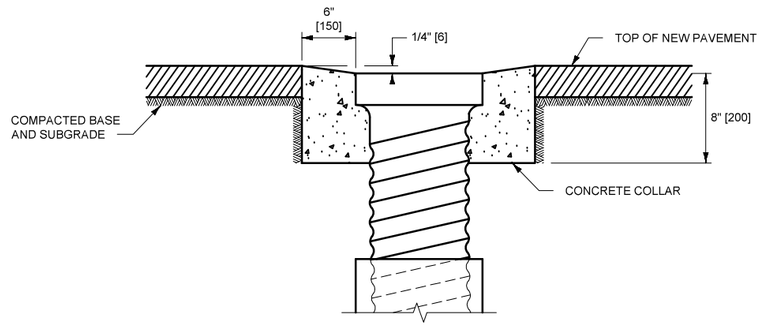
5/15/2024 4:01 PM STDDRD621000.DWG




NOTES:

1. RAISE MANHOLE LID FRAME ASSEMBLY TO NEEDED ELEVATION USING VERTICAL ADJUSTMENT RINGS.
2. LOWER MANHOLE BY REPLACING CONE AND BARREL SECTION LENGTHS WITH SHORTER LENGTHS AS NEEDED.
3. SLOPE MANHOLE FRAME TO MATCH FINISHED SURFACING CROSS SLOPE.
4. CONSTRUCT CONCRETE COLLAR USING CLASS GENERAL CONCRETE OR APPROVED EQUAL.

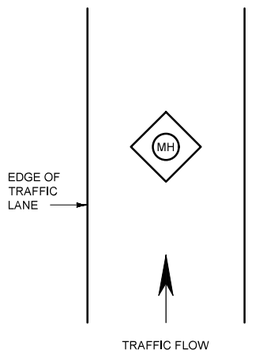
MANHOLE ADJUSTMENT DETAIL

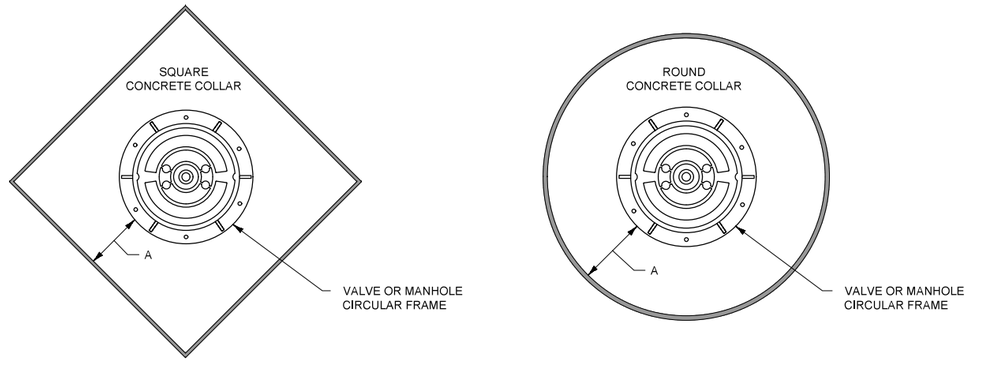



NOTES:

1. ADJUST WATER VALVES UPWARD OR DOWNWARD AS REQUIRED.
2. CONSTRUCT CONCRETE COLLAR OF CLASS GENERAL CONCRETE OR APPROVED EQUAL.

VALVE BOX ADJUSTMENT DETAIL




| TYPE | DIMENSIONS | SQUARE COLLAR QUANTITIES | ROUND COLLAR QUANTITIES |
|---|---|---|---|
| | A | CLASS GENERAL CONCRETE | CLASS GENERAL CONCRETE |
| MANHOLE | 1'-0" [300] | 0.5 C.Y. [0.4$m^3$] | 0.4 C.Y. [0.3$m^3$] |
| VALVE | 0'-6" [150] | 0.2 C.Y. [0.2 $m^3$] | 0.1 C.Y. [0.1 $m^3$] |

CONCRETE COLLAR DETAIL

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

**DETAILED DRAWINGS**

| REFERENCE | DWG. NO. |
|---|---|
| STANDARD SPEC. SECTION 604, 621 | 621-05 |

**OPTIONAL MANHOLE AND VALVE BOX ADJUSTMENT DETAILS**

EFFECTIVE: JAN 23, 2020

MONTANA
Department of Transportation

| --REVISED-- |
|---|
| APR 28, 2022 |
| JUN 27, 2024 |

2/20/2024 2:08 PM STDDRD621005.DWG